

Ohio School Bus Safety Working Group

Agenda

Date: September 11, 2023

Time: 2:00 – 4:00 pm

Where: Department of Public Safety, Atrium

1. Welcome – Director Andy Wilson, Chair, DPS
2. Working Group Member Introductions
3. In person school bus review (outside) - S/Lt. Aaron Reimer, OSHP
4. Who is served by school buses? – Carolyn Everidge-Frey & Jessica Horowitz-Moore, ODE
5. Current State of School Bus Safety
 - a. Rules & Regulations – Alex Armitage, DPS
 - b. Bus driver training & certification – Carolyn Everidge-Frey, ODE
 - c. Bus driver licensing – Carolyn Noland, BMV
 - d. OSHP Role: Inspections, Design, Upkeep, Certification - S/Lt. Aaron Reimer, OSHP

School Bus Safety Working Group Meeting
Date: Sep. 11, 2023

In support of the Ohio Department of Education's presentation for the School Bus Working Group meeting held on Sep. 11, 2023, please find supplemental links and references to cited Ohio Revised Code and Ohio Administrative Code below. Citations are listed below the agenda section where presented.

Who is served by school buses?

- [Ohio Revised Code 3327.01](#) - Transportation of Pupils
- [Ohio Administrative Code 3301-51-06](#) - Evaluations
- [Ohio Administrative Code 3301-51-10](#) - Transportation of children with disabilities
- [Ohio Administrative Code 3301-51-11](#) - Preschool children eligible for special education

Bus driver training and certification.

- [Ohio Revised Code 3327.10](#) - Qualifications of drivers
- [Ohio Revised Code 4511.76](#) - Administrative rules for school bus construction, design, equipment, operation and licensing
- [Ohio Administrative Code 3301-83-06](#) - Personnel qualifications
- [Ohio Administrative Code 3301-83-10](#) - Personnel training program

Ohio Revised Codes and Ohio Administrative Codes can be viewed at <https://codes.ohio.gov/>.

Private Pupil Transportation

HP-32F

HP-32G

OAC

4501-1 Transportation of Pupils

4501-1-01 Definitions.

4501-1-02 Application of rules and regulations.

4501-1-03 Application for license and application process.

4501-1-04 Prescribed application forms.

4501-1-05 Criminal record.

4501-1-06 Insurance coverage.

4501-1-07 Performance bond.

4501-1-08 Driver qualifications.

4501-1-09 Certificate of insurance and bond.

4501-1-10 Validity of license.

4501-1-11 Transfer of license.

4501-1-12 Display of license.

4501-1-13 Suspension or revocation of license.

4501-1-14 Failure to fulfill contract.

4501-1-15 Condition and operation of school bus.

4501-1-16 Annual status report.

4501-1-17 Inspection of facility and/or records.

ORC

3327.10 Qualifications of drivers

4511.76 Administrative rules for school bus construction, design, equipment, operation, and licensing.

4511.763 Licensing by department of public safety

4511.764 School buses must be registered and have identifying number

School Bus Design

OAC

4501-5 School Bus Minimum Standards

4501-5-01 General provisions.

4501-5-02 School bus construction standards.

4501-5-03 School buses used to transport pupils with special needs.

4501-5-04 Evaluation of new equipment or changes to existing equipment on school buses.

ORC

4511.76 Administrative rules for school bus construction, design, equipment, operation, and licensing.

Upkeep and Maintenance

4511.76 Administrative rules for school bus construction, design, equipment, operation, and licensing.

Inspections

4511.76 Administrative rules for school bus construction, design, equipment, operation, and licensing.

4511.761 School bus inspections

4511.762 School bus no longer used for transporting school children

4511.77 School bus - painting and marking

4511.771 Signal lamps to be equipped with flashing red and amber lights

Safety and Technology

4501-5-04 Evaluation of new equipment or changes to existing equipment on school buses.

CODES

<https://codes.ohio.gov/ohio-administrative-code/chapter-4501-1>

<https://codes.ohio.gov/ohio-administrative-code/chapter-4501-5>

<https://codes.ohio.gov/ohio-revised-code/section-3327.10>

<https://codes.ohio.gov/ohio-revised-code/section-4511.76>

<https://codes.ohio.gov/ohio-revised-code/section-4511.761>

<https://codes.ohio.gov/ohio-revised-code/section-4511.762>

<https://codes.ohio.gov/ohio-revised-code/section-4511.763>

<https://codes.ohio.gov/ohio-revised-code/section-4511.764>

<https://codes.ohio.gov/ohio-revised-code/section-4511.77>

<https://codes.ohio.gov/ohio-revised-code/section-4511.771>

Chapter 4501-1 | Transportation of Pupils

Ohio Administrative Code / 4501

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Rule

Rule 4501-1-01 | Definitions.

Effective: January 1, 2018 **Promulgated Under:** 119.03

For purposes of this chapter:

(A) "Director" means the director of the department of public safety or the director's designee.

(B) "Superintendent" means superintendent of the Ohio state highway patrol.

(C) "License" means the license issued by the director to each person who engages in the transportation of pupils to or from school on a school bus or enters into a contract with a board of education of any school district for the transportation of pupils on a school bus.

(D) "Licensee" means each person who holds a license issued by the director pursuant to division (D) of section [4511.76](#) and section [4511.763](#) of the Revised Code.

(E) "Insurance" means property damage, liability, and bodily injury accident insurance and medical payment.

(F) "Bond" means performance bond which may be required for each and every school bus operated by the licensee.

(G) "Mass transit system" means any person engaged in the transportation of the general public over established routes under the United States department of transportation

(USDOT) or a permit issued by the public utilities commission of Ohio or franchise of a political subdivision.

(H) "Dual operations" means any person engaged in the transportation of the general public over established routes under the United States department of transportation (USDOT) or a permit issued by the public utilities commission of Ohio or franchise of a political subdivision and also owns one or more school buses.

(I) "Person" includes an individual, corporation, business trust, estate, trust, partnership, and association.

(J) "Umbrella coverage" means a form of insurance protection against losses in excess of amounts covered by other liability insurance policies.

Supplemental Information

Authorized By: 4511.76

Amplifies: 4511.76, 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 4/1/1998, 5/22/2003

Rule 4501-1-02 | Application of rules and regulations.

Effective: May 22, 2003 **Promulgated Under:** 119.03

(A) With the exception of rule [4501-1-03](#) of the Administrative Code, any person defined as a mass transit system is exempted from compliance with Chapter 4501-1 of the Administrative Code.

(B) For school buses which they own or operate, any person as defined under dual operations shall comply with all rules and regulations of Chapter 4501-1 of the Administrative Code for school buses owned or operated by that person.

(C) Any person engaged in the transportation of the general public and the transportation of pupils to or from school or school functions that does not operate under the United States department of transportation (USDOT) or public utilities commission of Ohio permit or franchise of a political subdivision shall comply with all rules and regulations of Chapter 4501-1 of the Administrative Code.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966

Rule 4501-1-03 | Application for license and application process.

Effective: January 1, 2008 **Promulgated Under:** 119.03

Each person intending to engage in the transportation of pupils to or from school or school functions on a school bus shall make application for a license under this chapter in writing to the director. All materials necessary for an application shall be submitted within ninety days of the initial application date or the applicant must reapply.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 5/22/2003

Rule 4501-1-04 | Prescribed application forms.

Effective: January 1, 2018 **Promulgated Under:** 119.03

[Comment: forms incorporated by reference are available at
<http://statepatrol.ohio.gov/publications.stm>.]

The director shall supply prescribed application forms upon request. The information required on the "School Bus New License Application" form, OHP 0176 (8/2008) shall be established by the director. The information required on the the "School Bus Renewal Application" form, OHP 0177 (8/2008) shall be established by the director.

Supplemental Information

Authorized By: 4511.76

Amplifies: 4511.76, 4511.763

Five Year Review Date: 10/1/2022

Rule 4501-1-05 | Criminal record.

Effective: March 1, 2013 **Promulgated Under:** 119.03

The director shall not issue a license to any person, and may revoke, suspend or take other appropriate action on any license held by any person who has been convicted of a felony or crime involving any violation specified in rule [3301-83-23](#) of the Administrative Code. The applicant is required to submit a report of the state bureau of criminal identification and investigation processed within ninety days of date of application prior to issuance of a license. Once licensed, the licensee shall submit a new report every two years thereafter.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 4/1/1998

Rule 4501-1-06 | Insurance coverage.

Effective: January 1, 2008 **Promulgated Under:** 119.03

The director shall not issue a license to any person, and may revoke, suspend, or take other appropriate action on any license held by any person who does not have or does not maintain in effect either of the following:

(A) Minimum insurance coverage in the amounts of:

- (1) Bodily insurance liability - \$500,000 per person.
- (2) Bodily insurance liability - \$1,000,000 per accident occurrence.
- (3) Property damage liability - \$500,000 per accident occurrence.
- (4) Medical payment - \$5,000 per person.

(B) An insurance policy with minimum umbrella coverage of \$1,000,000.

Supplemental Information

Authorized By: R.C. [4511.76](#)

Amplifies: R.C. [4511.76](#), R.C. [4511.763](#)

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966

Rule 4501-1-07 | Performance bond.

Effective: January 1, 2008 **Promulgated Under:** 119.03

The director shall not issue a license to any person and may revoke, suspend, or take other appropriate action on any license held by any person who does not have or does not maintain in effect a performance bond in the amount of not less than \$1,000 for each and every school bus operated under contract with a school by the licensee.

Supplemental Information

Authorized By: R.C. [4511.76](#)

Amplifies: R.C. [4511.76](#), R.C. [4511.763](#)

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966

Rule 4501-1-08 | Driver qualifications.

Effective: March 1, 2013 **Promulgated Under:** 119.03

The director shall not issue a license to any person and may revoke, suspend, or take other appropriate action on any license held by any person who employs a driver who is not physically, mentally, or otherwise qualified and licensed as required by the Revised Code and all rules and regulations related to school bus drivers adopted by the Ohio department of education and the department of public safety. This includes, but is not limited to, the requirements of section [3327.10](#) of the Revised Code and the minimum qualifications for school bus drivers listed in rule [3301-83-06](#) of the Administrative Code. A licensee may not employ a driver convicted of any offense listed in rule [3301-83-23](#) of the Administrative Code.

Supplemental Information

Authorized By: R.C. [4511.76](#)

Amplifies: R.C. [4511.76](#), R.C. [4511.763](#)

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966, 1/1/2008

Rule 4501-1-09 | Certificate of insurance and bond.

Effective: January 1, 2008 **Promulgated Under:** 119.03

(A) Each licensee shall furnish to the director certificates attesting that the performance bond (when required) and the required insurance coverage are in effect.

(B) The performance bond (when required) and the required insurance coverage shall accompany the application for license. All such certificates shall originate from the home

office of the insurance and bonding companies.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Rule 4501-1-10 | Validity of license.

***Effective:** August 21, 2008 **Promulgated Under:** 119.03*

Every license shall be valid through the expiration date on the license. Any license issued by the director may be revoked, suspended, or subject to other appropriate action as provided in this chapter, regardless of the expiration date listed on the license. Each license shall expire annually or on a date designated by the director.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966, 4/1/1998

Rule 4501-1-11 | Transfer of license.

***Effective:** May 22, 2003 **Promulgated Under:** 119.03*

A license issued by the director is not transferable. If ownership of the licensee changes the name under which it is operating, the licensee shall submit a new license application.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966, 4/1/1998

Rule 4501-1-12 | Display of license.

Effective: May 22, 2003 **Promulgated Under:** 119.03

Every license issued by the director shall be conspicuously and permanently displayed at the business address or local transportation office of the licensee as reported on the application form.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 4/1/1998

Rule 4501-1-13 | Suspension or revocation of license.

Effective: January 1, 2008 **Promulgated Under:** 119.03

The director may suspend, revoke, or take other appropriate action on a license of any licensee found to be in violation of any rule of Chapter 4501-1 of the Administrative Code. If a license issued under Chapter 4501-1 of the Administrative Code is revoked, the former licensee is prohibited from reapplying for a license for a period of six months from the date of revocation.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966

Rule 4501-1-14 | Failure to fulfill contract.

Effective: January 1, 2008 **Promulgated Under:** 119.03

The director may suspend, revoke, or take other appropriate action on any license upon receipt of evidence that the licensee has failed to satisfactorily fulfill any contract for the transportation of pupils signed by the said licensee and shall seek payment of the performance bond required by rule [4501-1-07](#) of the Administrative Code.

During the annual renewal (rule [4501-1-16](#) of the Administrative Code), each licensee shall provide a list of each school to which the licensee provides transportation service.

Supplemental Information

Authorized By: R.C. [4511.76](#)

Amplifies: R.C. [4511.76](#), R.C. [4511.763](#)

Five Year Review Date: 10/1/2022

Prior Effective Dates: 10/21/1966

Rule 4501-1-15 | Condition and operation of school bus.

Effective: August 21, 2008 **Promulgated Under:** 119.03

Every school bus owned and/or operated by the licensee and used for transportation of school pupils shall be maintained in safe operating condition at all times and in accordance with standards established by the Ohio department of education and/or the department of public safety. Every school bus shall be operated in compliance with the operation and safety rules established by the Ohio department of education in Chapter 3301-83 of the Administrative Code.

Supplemental Information

Authorized By: R.C. [4511.76](#)

Amplifies: R.C. [4511.76](#), R.C. [4511.763](#)

Five Year Review Date: 10/1/2022

Prior Effective Dates: 4/1/1998

Rule 4501-1-16 | Annual status report.

***Effective:** August 21, 2008 **Promulgated Under:** 119.03*

Sixty days prior to the expiration of a private pupil transportation license, the licensee shall submit an annual school bus and school bus driver status report on a form provided to the licensee by the director. The information required on the status report shall be established by the director and may be amended at any time at the director's discretion.

Failure to submit the annual status report shall cause the license to not be renewed.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 5/22/2003

Rule 4501-1-17 | Inspection of facility and/or records.

***Effective:** August 21, 2008 **Promulgated Under:** 119.03*

The director or designee reserves the right to inspect the records and facility or facilities of any licensee during normal business hours. Licensee is required to maintain records of all drivers, vehicles and annual school bus and school bus driver status reports for a period of one year plus current year.

Supplemental Information

Authorized By: R.C. 4511.76

Amplifies: R.C. 4511.76, R.C. 4511.763

Five Year Review Date: 10/1/2022

Prior Effective Dates: 4/1/1998

Chapter 4501-5 | School Bus Minimum Standards

Ohio Administrative Code / 4501

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Rule

Rule 4501-5-01 | General provisions.

Effective: January 1, 2019 **Promulgated Under:** 119.03

[Comment: For dates and availability of material incorporated by reference in Chapter 4501-5 of the Administrative Code, see paragraph (R) of this rule.]

(A) Except as otherwise provided in paragraphs (Q)(2)(a) to (Q)(2)(i) of this rule, all school buses for which bids are issued, bid on or after the effective date of this rule, shall conform to the rules in this chapter. These rules also cancel all existing "Approved Equal" certification and all construction approvals or waivers.

(B) School buses shall be manufactured and maintained as specified in rules [4501-5-02](#) and [4501-5-03](#) of the Administrative Code as applicable for the type of school bus. Any manufacturer, dealer or owner wishing to install any equipment or product other than those specified in rules [4501-5-02](#) and [4501-5-03](#) of the Administrative Code, including equipment or products the manufacturer, dealer or owner believes are equivalent or superior to equipment or products specified in those rules shall have prior approval, in writing, from the director. Requests for permission to install shall comply with rule [4501-5-04](#) of the Administrative Code.

(C) A manufacturer's and/or dealer's failure to comply with any of the rules in this chapter and all national highway traffic safety administration recalls may result in the suspension of authorization for sale and/or use of the chassis and/or body in the state of Ohio until

such discrepancy is corrected by the manufacturer or responsible representative and written approval is issued by the department.

(D) Each manufacturer shall file a statement of compliance within thirty days after the effective date of this rule. The statement shall certify that all products and components manufactured for use in school buses sold for use in Ohio, as defined in division (F) of section [4511.01](#) of the Revised Code, will meet all rules in this chapter.

(E) When new models are introduced, an updated statement of compliance shall be filed with the director.

(F) Pre-delivery inspection shall be conducted by both body and chassis manufacturers to assure the bus being delivered is in satisfactory operating order (all components) and meets all applicable federal and Ohio standards. This predelivery inspection shall be according to the specific instructions of the purchaser and to the purchaser's satisfaction.

(G) The bus shall be delivered clean inside and out.

(H) Body and chassis manufacturers shall provide documents specifying warranty provisions and enumerating major parts and equipment covered under warranty. Bus body and chassis dealers shall be responsible for providing full warranty service.

(I) For "Type A" school bus only: the chassis manufacturer shall provide for service at the body plant location after the body is mounted and prior to delivery to the purchaser.

(J) At the time of delivery, the manufacturer shall provide to the purchaser the following documents (either printed or electronic):

(1) Line set tickets.

(2) Warranty book and statement of warranty.

(K) Any changes in design or equipment by school bus owners after receipt of the school bus must have prior approval in writing from the director of the department.

(L) School buses equipped with equipment or products that have been approved by the director pursuant to rule [4501-5-04](#) of the Administrative Code shall comply with the installation and operation requirements as approved. If equipment or products that have been approved by the director pursuant to rule [4501-5-04](#) of the Administrative Code are to be installed by other than the manufacturer or dealer at the original time of sale, permission shall be obtained in accordance with rule [4501-5-04](#) of the Administrative Code.

(M) All materials used in school bus construction shall meet or exceed all applicable federal motor vehicle safety standards (FMVSS) and society of automotive engineers (SAE) standards.

(N) School bus definitions

(1) A "Type A School Bus" is a conversion bus constructed utilizing a cutaway front section vehicle with a left side driver's door. This definition shall include two classifications:

(a) Type A-1, with a gross vehicle weight rating (GVWR) of fourteen thousand five hundred pounds or less,

(b) Type A-II, with a gross vehicle weight rating (GVWR) of fourteen thousand five hundred one pounds or more.

(2) A "Type B School Bus" is constructed utilizing a stripped chassis with a gross vehicle weight rating of more than ten thousand pounds, designed for carrying more than ten persons. Part of the engine is beneath and/or behind the windshield and beside the driver's seat. The entrance door is behind the front wheels.

(3) A "Type C School Bus" is a body installed upon a flat back cowl chassis with a gross vehicle weight rating of more than ten thousand pounds, designed for carrying more than ten persons, including the driver. All of the engine is in front of the windshield and the entrance door is behind the front wheels.

(4) A "Type D School Bus" is a body installed upon a chassis, with the engine mounted in the front, midship, or rear, with a gross vehicle weight rating of more than ten thousand pounds and designed for carrying more than ten persons, including the driver. The engine may be behind the windshield and beside the driver's seat, at the rear of the bus behind the rear wheels, or midship between the front and rear axles. The entrance door is ahead of the front wheels.

(O) All body and chassis manufacturers shall provide a current up-to-date parts and service repair manual(s) (either printed or electronic) for each body and chassis. This is not to be interpreted as an owner's manual. If the school bus owner is ordering more than one of the same body and chassis then only one parts and service manual would be required.

(P) All chassis and body replacement parts shall be readily available for a minimum of ten years.

(Q) Compliance, maintenance

(1) The responsibility for compliance with these rules and/or national highway traffic safety administration (NHTSA) recalls lies with the school bus owner. A manufacturer's and/or dealer's failure to comply with any of the rules in this chapter and all NHTSA recalls may result in the suspension of authorization for sale and/or use of the chassis and/or body in the state of Ohio until such discrepancy is corrected by the manufacturer or the responsible representative and written approval is issued by the department.

(2) School bus owners shall maintain all school buses in such condition that they continue to meet Ohio school bus construction standards federal motor vehicle safety standards in effect on the bid date, or if the bid date is unknown, on the manufacture date until such standards or specifications are subsequently repealed or reduced:

(a) For school buses with a manufacture date on or after January 1, 2018, but before the effective date of this rule, the Ohio department of public safety school bus construction standards, effective July 1, 2019.

(b) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after May 15, 2014, but before the effective date of this rule, the Ohio department of public safety school bus construction standards, effective May 15, 2014.

(c) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after December 1, 2008, but before the effective date of this rule, the Ohio department of public safety school bus construction standards, effective December 1, 2008.

(d) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after August 16, 2007, but before the effective date of this rule, the Ohio department of public safety Ohio school bus construction standards, effective August 16, 2007.

(e) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after September 1, 2003 but before August 16, 2007, the Ohio department of public safety Ohio school bus construction standards, effective September 1, 2003.

(f) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after September 1, 1998 but before September 1, 2003, the Ohio

department of public safety Ohio school bus construction standards, effective September 1, 1998.

(g) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after January 1, 1990 but before September 1, 1998, the Ohio department of education school bus minimum construction standards, effective January 1, 1990.

(h) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after July 1, 1988 but before January 1, 1990, the Ohio department of education school bus minimum construction standards, effective July 1, 1988.

(i) For school buses with a bid date, or if bid date is unknown, with a manufacture date on or after April 1, 1978 but before July 1, 1988, the Ohio department of education school bus minimum construction standards, effective April 1, 1978.

(R) All school bus body and chassis manufacturers shall immediately notify the director and the superintendent of public instruction of any safety-related product recalls.

(S) Incorporated by reference. This chapter includes material that has been incorporated by reference. If the material is subject to change, only the specific version listed in this rule is incorporated. Any revision to the referenced material is not incorporated unless and until this rule has been amended to specify the new date.

Except as otherwise provided in paragraphs (Q)(2)(a) to (Q)(2)(i) and paragraphs (S)(1) to (S)(6) of this rule, the versions of all federal regulations and other texts incorporated by reference throughout Chapter 4501-5 of the Administrative Code are those in effect on the effective date of this rule.

(1) Code of Federal Regulations (CFR) may be obtained by writing to "U.S. Government Printing Office, 400 7th Street SW, Washington DC 20590" or via its website at

<http://www.gpoaccess.gov>.

Chapter 4501-5 of the Administrative Code incorporates 49 CFR 393.94 (October 1, 2012).

(2) Federal motor carrier safety regulations (FMCSR) may be obtained by writing to "U.S. Department of Transportation, National Highway Traffic Safety Administration (DOT-NHTSA), 400 7th Street SW, Washington D.C. 20590" or via its website at <http://www.fmcsa.dot.gov/> or at <http://www.gpoaccess.gov>.

Chapter 4501-5 of the Administrative Code incorporates FMCSR 390.21 (October 1, 2012).

(3) Federal motor vehicle safety standards (FMVSS) may be obtained by writing to "U.S. Department of Transportation, National Highway Traffic Safety Administration (DOT-NHTSA), 400 7th Street SW, Washington D.C. 20590" or via its website at <http://www.fmcsa.dot.gov/> or at <http://www.gpoaccess.gov>. For the purpose of this chapter, references to federal motor vehicle safety standards are to those set forth in the Code of Federal Regulations printed as of October 1, 2012. Chapter 4501-5 of the Administrative Code incorporates the following federal motor vehicle safety standards:

(a) FMVSS 571.101;

(b) FMVSS 571.105;

(c) FMVSS 571.108;

(d) FMVSS 571.111;

(e) FMVSS 571.120

(f) FMVSS 571.121;

(g) FMVSS 571.125;

(h) FMVSS 571.131;

(i) FMVSS 571.205;

(j) FMVSS 571.209;

(k) FMVSS 571.210;

(l) FMVSS 571.217;

(m) FMVSS 571.220;

(n) FMVSS 571.221;

(o) FMVSS 571.222;

(p) FMVSS 571.301;

(q) FMVSS 571.302;

(r) FMVSS 571.403;

(s) FMVSS 571.404.

(4) National highway traffic safety administration (NHTSA) recalls may be accessed at the "National Highway Traffic Safety Administration's" website at <http://www.nhtsa.gov>.

(5) National school transportation specifications and procedures (May 2015), may be obtained by writing to the "NASDPTS, 3980 River Road, Wisconsin Dells, WI 53562" or via the national congress on school transportation's website at <http://www.ncstonline.org>.

(6) Ohio department of public safety Ohio school bus minimum construction standards and Ohio department of education school bus minimum construction standards may be obtained by writing to "Ohio Department of Public Safety, Licensing and Commercial Standards, 1970 West Broad Street, Columbus, Ohio, 43223" or via its website at <http://www.statepatrol.ohio.gov>. A complete and accurate copy of each publication has also been deposited in each of five depository libraries designated by the state library board.

(7) Society of automotive engineers international (SAE) standards are to be those set forth in the "2008 Society of Automotive Engineers Handbook" as published by the "Society of Automotive Engineers, Inc." SAE standards may be obtained by writing to "SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096" or via its website at <http://www.sae.org>. Chapter 4501-5 of the Administrative Code incorporates the following SAE standards:

- (a) SAE standard J381;
- (b) SAE standard J541;
- (c) SAE standard J683;
- (d) SAE standard J800;
- (e) SAE standard J887;
- (f) SAE standard J994;
- (g) SAE standard J1019;
- (h) SAE standard J2233
- (i) SAE standard J2249.

(T) Definitions:

As used in this chapter of the Administrative Code:

- (1) "Department" means the department of public safety.
- (2) "Director" means the director of the department of public safety or the director's designee.
- (3) "Manufacturer's rated seating capacity," also known as "shell capacity," means the theoretical passenger capacity that a vehicle would have if it were constructed with the maximum number of seating positions.

(U) The director shall appoint an "Ohio School Bus Construction Standards Advisory Group" to assist with the adoption of standards.

The advisory group shall be administered by the Ohio state highway patrol and consist of a representative from each of the following if possible:

- (1) The Ohio department of education;
- (2) The national highway traffic safety administration;
- (3) An individual or organization representing pupil transportation;
- (4) An individual or organization representing school bus mechanics;
- (5) An individual or organization representing school administrators; and
- (6) An individual or organization representing school bus manufacturers.

Supplemental Information

Authorized By: 4511.76

Amplifies: 4511.76

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Rule 4501-5-02 | School bus construction standards.

Effective: January 1, 2019 **Promulgated Under:** 119.03

[Comment: For dates and availability of material incorporated by reference in this rule, see paragraph (S) of rule [4501-5-01](#) of the Administrative Code.]

These standards apply to any school bus used to transport school children to and from school and/or school related activities and events.

(A) Access steps. (except "Type A" buses)

- (1) Steps shall be installed on each side of the school bus to allow access to windshield for cleaning.
- (2) Grab handles shall be securely mounted in a suitable position to assist in using the steps.
- (3) In lieu of steps installed on each side, the steps are permitted in or on the front bumper if the windshield can be accessible for cleaning from that position.

(B) Air compressor for accessories.

An accessory compressor that supplies air to accessories only shall be sized appropriately. Accessory compressors shall not be connected to the braking system in any way.

(C) Aisle.

- (1) Minimum width of aisle shall be twelve inches at floor level.
- (2) Minimum width of aisle between seats shall be twelve inches at seat level.

(3) The aisle shall not be less than twelve inches wide between any two objects from the service doors to the aisle in the passenger area from floor to ceiling.

(4) Hold-down fastening devices used on inside engine cover shall be designed to prevent hooking or catching on shoes or clothing.

(D) Axles and suspensions.

(1) The front and rear axles, including suspension assemblies, and all frame-to-ground components, shall have a gross axle weight rating when measured at the ground at least equal to that portion of the load as would be imposed by the chassis manufacturer's maximum gross vehicle weight rating.

(2) Heavy-duty double-acting shock absorbers compatible with the manufacturer's rated axle capacity shall be installed on the front and rear of the school bus chassis.

(3) Suspension assemblies as specified shall maintain/control stability of school bus under all conditions.

(E) Battery.

(1) "Type B, C and D" buses:

(a) A battery or batteries of at least eight hundred cold cranking amperes for a gasoline powered engine.

(b) A battery or batteries of at least one thousand two hundred fifty cold cranking amperes for a diesel powered engine.

(2) "Type A I and A II" buses:

(a) A battery or batteries of at least six hundred cold cranking amperes for a gasoline powered engine.

(b) A battery or batteries of at least one thousand cold cranking amperes for a diesel powered engine.

(3) A battery or batteries of at least one thousand two hundred cold cranking amperes if equipped with a lift.

(4) One-piece non-spliced battery cables shall be provided by the chassis manufacturer. All cables shall conform to SAE standard J541 with respect to electrical resistance.

(5) "Type A I and A II" buses may have the battery/batteries located at the manufacturer's standard. Batteries for "Types B, C, and D" buses shall be mounted in the body skirt by the body manufacturer. Rear engine buses may have batteries mounted in engine compartment.

(6) A drawer-type pull-out tray shall be installed whenever the battery/batteries are accessed through the body fender skirt. The batteries shall be enclosed by a compartment constructed of mill-applied zinc coated steel, or other acid resistant material, provided with drain ports, hold-down carrier mounted so as to avoid blocking filler ports, and latching device to prevent accidental opening. Drawer assembly shall be covered with acid-resistant paint or material. Battery tray shall be equipped with a positive locking device to keep tray from sliding completely out to prevent battery from being dropped.

(F) Body construction.

(1) All construction components (except door handles, grab handles, interior decorative parts, other interior plated parts, and components heavier than twelve-gauge), shall be of prime commercial quality mill-applied zinc coated steel, other anti-corrosive coating or composite materials. Components must meet or exceed current strength and durability and all applicable "Federal Motor Vehicle Safety Standards."

The zinc plating shall be one hundred twenty grams per meter square minimum coating weight (G60) or equivalent applied by either hot dipping or electroplating. All such construction materials shall be fire resistant.

(2) All metal surfaces that will be painted shall be chemically cleaned, etched, zinc-phosphate coated, and zinc-chromate or epoxy-primed, or conditioned by equivalent process.

(3) In providing for the requirements in paragraphs (F)(1) and (F)(2) of this rule, particular attention shall be given to lapped surfaces, welded connections of structural members, cut edges, punched or drilled holed areas in sheet metal, closed or box sections, unvented or undrained areas, and surfaces subject to abrasion during vehicle operation.

(4) Upon final assembly of the bus body and after mounting body upon chassis, the total unit strength of the school bus shall meet or exceed all strength criteria as established by FMVSS 571.220 and FMVSS 571.221.

(5) Body construction shall provide a dustproof and watertight unit.

(6) Exterior body panels shall meet or exceed FMVSS 571.221.

(7) Floor.

(a) The floor shall be not less than fourteen-gauge mill, corrosive resistant coated steel or composite materials. If zinc plated, the plating shall be one hundred twenty grams per meter square minimum coating weight (grade sixty) or equivalent applied by either hot dipping or electroplating.

(b) The floor may be flat.

(c) "Type A" buses have an additional step from the step well.

(d) A fuel access plate shall be installed for easy access to fuel gauge mechanism.
("Type A" buses excluded)

(8) Rub rails.

(a) Manufacturers shall install one rub rail at approximately seat level, except for the opening for engine compartment side door in a rear engine bus. This rail shall extend from the main vertical post behind the service door to the forward-most vertical post on the left side of the body, including left side emergency door. (Rear emergency door exempted)

(b) A second rub rail shall be installed at approximately the floor line and cover the same longitudinal area as the seat level rail, except at wheel housings, and needs only to extend to the radii of right and left rear corners.

(c) A third rub rail may be installed on the lower edge of the body skirt.

(d) All rub rails shall be attached at each body post and all other upright structural members.

(e) Each rub rail shall be four inches or more in width in its finished form and shall be constructed of sixteen gauge metal or other material of equivalent strength suitable to help protect body side panels from damage.

(f) All rub rails shall be mounted outside of body panels.

(g) Additional external rub rails are permissible if they form an integral part of the body construction and meet the fastening requirements.

(9) Fold out steps may be installed at the regular service entrance.

(a) The fold out step will provide a step level that is six inches or less to ground level.

(b) The fold out step may be power activated or manually operated.

(10) If the ceiling is so constructed to contain lap joints, the forward panel shall be lapped by the rear panel and the exposed edges shall be beaded, hemmed, flanged or otherwise treated to minimize sharp edges.

(11) All body components shall be designed and constructed so as to avoid the entrapment of moisture.

(G) Brakes.

All braking systems and components shall meet or exceed the minimum requirements specified in applicable Federal Motor Vehicle Safety Standards 571.105 or 571.121 and the following:

(1) Air or hydraulic brake systems are acceptable. If brakes are air actuated, they shall be of the cam drum type on front and rear wheels, disc front and drum rear or four-wheel disc. Brakes that are hydraulically actuated, shall be disc front and drum rear or four-wheel disc.

(2) All air brake systems shall have both visual and audible warning systems that activate as required by FMVSS 571.121. Hydraulic brake systems that utilize hydraulic power assist shall have both visual and audible warning systems that activate as required by FMVSS 571.105.

(3) For air brake systems, an air pressure gauge shall be provided in the instrument panel capable of complying with CDL pre-trip inspection requirements.

(4) Air compressors that supply air to brakes must have sufficient rated capacity that meets or exceeds FMVSS 571.121 (minimum of thirteen cubic feet per minute) and shall be pressure oil fed. Clean air to all compressors shall be supplied and filtered through engine air cleaner.

(5) All air supplied from the air tanks shall be taken at or above the center line of the air tank to avoid contaminants entering the braking system or air operated accessories.

(6) All school buses equipped with air brakes shall require a desiccant type air dryer with a renewable or replaceable desiccant cartridge (filter). Dryer shall incorporate an automatic purge and drain cycle with heating element.

(H) Bumpers.

(1) Front bumper for all buses having a GVWR of twenty-one thousand five hundred pounds or less shall be manufacturers standard. ("Type A" buses)

(2) Front bumper for all buses having a GVWR greater than twenty-one thousand five hundred pounds rating:

(a) Bumper shall be at least three-sixteenths of an inch thick pressed steel channel, one-piece construction, with a minimum width of eight inches after forming. Materials other than pressed steel may be used if equivalent in strength and durability of pressed steel.

(b) Bumper shall be contoured to offer maximum protection of fender lines without permitting snagging or hooking.

(c) Bumper shall be attached to the frame and extended forward of grille, head lamps, fender, or hood sections and extend the entire width of the bus to provide maximum protection.

(d) The bumper shall be of sufficient strength to permit lifting the bus with a bumper type lift for servicing

(3) Rear bumper.

(a) Bumper shall be of sufficient strength to permit lifting the bus with a bumper type lift for servicing and shall be one piece, heavy-duty type of pressed steel channel, at least three-sixteenths inch of thickness. Materials other than pressed steel may be used if equivalent in strength and durability of pressed steel.

(b) Bumper shall be a minimum of eight inches in height after forming.

(c) Bumper shall be wrapped around back corners of bus and extend forward at least twelve inches, measured from rear-most point of body at floor line. Rear bumper shall also protect rear corners of body by extending beyond the body exterior side panels. The bend of the rear bumper at the rear body corners shall be sufficient to allow the entire contour of the forward end of the rear bumper to extend no more than one inch beyond the body line of the exterior side panels.

(d) Bumper shall be fastened to chassis frame side rails in such a manner as to develop full strength of bumper section from rear or side impact. Bracing materials shall have an impact ratio comparable to that of bumper material and shall be fastened at the ends and radii of the bumper, attached to the side of the frame only and not to the body at any point.

(e) Bumper shall extend beyond rear-most part of body surface at least one inch, measured at floor line.

(f) No spaces, projections, or cutouts that will permit a handhold are permitted.

(g) Front ends of the bumper shall be enclosed by endcaps or other protective metal or shall have the ends rounded or tucked in and shall be free from sharp

edges or projections likely to cause injury or snagging.

(h) A rubber or metal strip shall be installed to close any opening exceeding one-fourth inch between rear bumper and body metal.

(i) The vertical distance between the bottom of the bumper and the ground shall not exceed thirty inches when the vehicle is empty.

(I) Color.

(1) Bumpers shall be black.

(2) Fender and body shall be painted national school bus yellow.

(3) Hood may be painted non-reflective national school bus yellow or flat black (except "Type A").

(4) Frame shall be painted black.

(5) Grille may be painted national school bus yellow, black or chrome or anodized aluminum in finish. Rear engine bus grille area(s) shall be national school bus yellow.

(6) Steel wheels shall be black and/or gray. Aluminum wheels are permitted.

(7) All lettering and numbering on exterior shall be black.

(8) Background area and optional hoods for warning lights shall be black.

(9) Rub rails shall be black.

(10) Service door may be black. Note:

(a) Special service doors shall not be black.

(b) Left side driver's door on "Type A and A II" buses shall not be black.

(J) Cooling system.

- (1) Cooling system shall be manufacturer's standard.
- (2) Cooling fan(s) may be variable speed.
- (3) The cooling system shall have a means of checking the coolant without having to remove the radiator cap.

(K) Defroster.

- (1) Defroster system shall meet or exceed SAE standard J381 performance requirements without use of auxiliary fan.
- (2) The defroster system shall be of sufficient capacity to keep windshield area, left front side driver's window, and service door glass area free of condensation or ice under all possible combinations of pupil load and climatic conditions.
- (3) Defroster system shall be capable of providing at least sixty per cent fresh air.
- (4) Two adjustable six-inch auxiliary fans shielded with small mesh metal or polypropylene guards shall be installed. Only one adjustable six-inch auxiliary fan is required for "Type A" buses.
 - (a) Each auxiliary fan(s) shall be controlled individually by a multi-speed switch.
 - (b) The switch shall be located within easy reach of the driver while seated.

(L) Drive shaft and differential.

- (1) Drive shafts and universal joints are to be original equipment manufacturer standard.

(2) Metal drive shaft guards are required for each drive shaft section extending lengthwise under the floor of the passenger compartment to prevent projecting through the floor or dropping to the ground if broken. The drive shaft guard shall be at the end of the shaft which is provided with a sliding connection (spline or other such device) to prevent whipping of the shaft in event of failure thereof or any of its component parts.

(3) The rear axle ratio shall be compatible with engine, transmission and tire size.

(M) Driver's seat.

(1) Minimum distance between steering wheel and back rest of driver's seat shall be eleven inches. Driver's seat shall have vertical adjustment of not less than four inches and horizontal adjustment of not less than four inches.

(2) The driver's seat and driver's area shall have a restraining barrier meeting FMVSS 571.222 positioned immediately behind the driver's area.

(3) The driver's seat upholstery shall meet FMVSS 571.302 (Flammability of interior materials).

(4) A "Type II" seat belt is required for the driver. Belts shall be equipped with protective boots of sufficient quality and strength to keep it retracted and off the floor and within easy reach of the driver. Belt shall be adjustable on one side only and keep the driver from sliding sideways under the belt.

(5) Seating options allowed:

(a) Adjustable air driver's seat;

(b) Internal heating provided by manufacturer; and

(c) Driver alert technology.

(N) Electrical system.

(1) Alternator.

(a) Minimum of a one hundred forty five ampere alternator on all "Type A" buses.

(b) Minimum of a two hundred ampere alternator on all other buses.

(2) All wiring shall conform to current society of automotive engineers standards.

(O) Emergency equipment.

(1) All shall be mounted in an easily accessible location.

(2) Bus shall be equipped with at least one dry-chemical-type fire extinguisher of at least five-pound capacity, 3A - 40 B.C. rating, located outside of the passenger area, mounted in a quick release-type bracket and easily accessible by the driver. The extinguisher shall be equipped with a dial-type graduated gauge which indicates loss of pressure. Fire extinguisher shall be of the type that permits the dry-chemical base to be refilled by ordinary procedures.

(3) First aid kits shall be dustproof, plainly labeled, mounted in a location easily accessible to the driver, located outside of the passenger area, and securely mounted in a metal or plastic container.

(4) A twenty-four unit kit is required for all buses. Note: The first aid kit may be installed at time of manufacture by the manufacturer, installed by dealer, or installed by the owner/operator of the school bus.

(5) Three triangle reflectors with weighted stands shall be properly encased for easy storage. The triangle reflectors shall meet FMVSS 571.125. The storage container shall

be mounted to prevent movement and shall be mounted within easy access of the driver.

(6) Six thirty-minute fusees are permitted and shall be encased for easy storage. The storage container shall be mounted to prevent movement and shall be mounted within easy access of the driver. The fusees shall not be stored in the passenger area. No spiked fusees are permitted.

(7) One body fluid kit shall be required. The kit shall contain the following items:

(a) Effective chlorine absorbent deodorant.

(b) Effective germicidal detergent. If detergent contains alcohol, no more than one fluid ounce is permitted in a single-use disposable container.

(c) Single-use, disposable bag.

(d) Single-use, disposable scraper.

(e) Minimum of one pair of disposable, single-use, effective protective gloves.

(f) Effective hand rinse. If hand rinse contains alcohol, no more than one-half fluid ounce is permitted in a single-use disposable container.

(g) The body fluid clean-up kit shall be easily accessible to the driver in the area of the first aid kit and shall be securely mounted in a metal or plastic container.

(h) If alcohol is included, the body fluid clean-up kit shall not contain more than one and one-half fluid ounces of alcohol.

Note: The body fluid kit may be installed at time of manufacture, installed by dealer or the owner/operator of the school bus.

(P) Emergency exits.

Any installed emergency exit shall comply with the design and performance requirements of FMVSS 571.217 applicable to that type of exit, regardless of whether or not that exit is required by FMVSS 571.217. Additional exits are allowed in addition to the minimum required by this rule.

(1) Emergency doors.

(a) Emergency doors shall meet FMVSS 571.217. An interior handle shall be provided to pull the door shut from the inside which may be used as a protection against accidental release.

(b) When the interior handle is not in the position that causes the emergency door to be closed, a continuous warning sound shall be audible at the driver's seating position and in the vicinity of the emergency door and the dome lights (driver's dome light excluded) shall illuminate with the ignition switch in any position.

(c) Exterior door handle shall be of permanent hitch-proof design and mounted with enough clearance to permit opening without touching door surface.

(d) All emergency door openings shall be completely weather-stripped.

(e) There shall be no step-type mechanism in the use of the emergency door.

(f) There shall be a head bumper pad installed on the inside at the top of the emergency exit frame. This pad shall be approximately four inches in width and extend across the entire top of the emergency exit opening and shall meet FMVSS 571.302 for flammability standards of interior materials.

(2) Rear emergency door.

(a) On all buses, except rear-engine design, an emergency door shall be located in the rear of the school bus body and centered with respect to the body.

(b) Emergency door shall have a minimum horizontal opening of twenty-four inches and a minimum vertical opening of forty-eight inches measured from floor level.

(c) Rear emergency door shall be hinged on right side and shall open outward.

(d) The rear emergency door shall contain upper and lower glass panels. Glass in emergency door shall provide maximum area of visibility for safe operation of the school bus.

(e) The rear emergency door shall have a prop rod/lock out bar.

(3) Left side emergency door.

(a) On all rear-engine school buses, a left side emergency door shall be installed.

(b) If a door sill or heater line extends above the floor line, a ramp shall be provided covering the area over which a foot must pass when an individual exits through the door.

(c) The left side emergency door shall have a prop rod/lock out bar.

(4) Emergency side window exits.

(a) Emergency window shall display the words "emergency exit" at the top of or directly above, or at the bottom of the emergency window exit on both the inside and outside of the bus, in a color contrasting the background.

(b) Emergency windows, when not fully latched, shall activate a continuous warning sound that shall be audible in driver's compartment and activate all dome

lights (drivers dome lights excluded). Warning sound and dome lights shall be operational with the ignition switch in any position.

(5) Emergency window, rear-engine buses.

(a) An emergency window shall be installed above the engine compartment.

(b) Window shall be hinged from top and provided with a device to ensure against accidental closing when open.

(c) Emergency window in rear shall be equipped with a latch on the inside, and also be equipped with a handle of hitch-proof design which will permit opening from the outside.

(d) Emergency window shall display the words "emergency exit" at the top of or directly above, or at the bottom of the emergency window exit on both the inside and outside of the bus, in a color contrasting the background.

(e) Emergency window, when not fully latched, shall activate a continuous warning sound that shall be audible in the driver's compartment and all dome lights shall activate (driver dome lights excluded). Warning sound and dome lights will be operational with the ignition switch in any position.

(6) Emergency roof exits.

(a) A continuous warning sound that shall be audible in the driver's compartment and all dome lights shall activate when the hatch is opened in the escape position (driver dome lights excluded). Warning sound and dome lights shall be operational with ignition switch in any position.

(b) If a bus is not manufactured with a static vent, the emergency roof exit shall be a static-type with exhaust vent.

(7) Number of emergency roof exits required.

(a) One roof hatch is required for a bus with a manufacturer's rated shell capacity of one to forty-five.

(b) Two roof hatches are required for a bus with a manufacturer's rated shell capacity of forty-six and above.

(Q) Engine speed governor shall be installed on all buses. Setting shall comply with manufacturer's maximum recommended governed speed. A revolution per minute limiter in lieu of the engine speed governor is acceptable. Note: Recommended governed speed will reference maximum speed limits established in section [4511.21](#) of the Revised Code.

(R) Exhaust system.

(1) Exhaust pipe, muffler or a diesel particulate filter in lieu of the muffler, and tailpipe shall be outside bus body and attached to chassis.

(2) The tailpipe and after-treatment system shall be constructed of a corrosion-resistant tubing material at least equal in strength and durability to sixteen-gauge steel tubing of equal diameter.

(3) The tailpipe may be flush with, or shall not extend more than two inches beyond, the perimeter of the body for side-exit pipe or the bumper for rear-exit pipe. The exhaust shall be designed such that exhaust gas will not be trapped under the body of the bus.

(4) The tailpipe shall exit to the left or right of the emergency exit door in the rear of the vehicle to the left side of the bus, in front of or behind the rear drive axle, or the tailpipe may extend through the bumper. The tailpipe shall not exit beneath any fuel filler location, emergency door, or lift door.

(5) The exhaust system shall be insulated in a manner to prevent any damage to any fuel system component.

(6) The design of the after-treatment systems shall not allow active (non-manual) regeneration of the particulate filter during the loading and unloading of passengers. Manual regeneration systems will be designed such that unintentional operation will not occur.

(7) Right side discharge exhaust systems are not permitted.

(S) For after treatment systems that require diesel exhaust fluid (DEF) An optional left side discharge exhaust system is permitted. If a left side discharge, the tailpipe shall be located at least three inches and not more than eighteen inches in front of the rear wheel opening and angled down at a forty-five degree angle six inches from the end of the pipe. The discharge shall extend to the edge of the body.

(1) The composition of the DEF must comply with ISO 22241-1.

(2) The DEF supply tank shall be sized to meet a minimum ratio of three diesel fills to one DEF fill.

(T) Fenders.

(1) Total spread at outer edges of front fenders, measured at fender line, shall exceed total spread of front tires when front wheels are in straight ahead position.

(2) Front fenders shall be braced and free from any body attachment. Trailing edge of front fender shall extend to bottom of front body section. Fender extensions are acceptable.

(3) Fiberglass replacement fenders and cowl pieces are permitted.

(U) Floor covering.

- (1) All floor covering shall have a calculated burn rate of .1 mm per minute or less using the test methods, procedures and formulas listed in FMVSS 571.302 and be permanently bonded to the floor and must not crack or lose its adhesive power when vehicle is subjected to sudden changes in temperature. Bonding or adhesive material shall be waterproof and recommended by the manufacturer of the floor covering material.
- (2) Underseat areas shall have a fire-resistant floor covering, having a minimum overall thickness of one-eighth inch. The entire joint between the floor covering and the wall of the school bus body shall be covered with a fitted, rust-free metal or composite molding or reformed interior panel.
- (3) Driver's compartment floor area shall be of the same quality material as the underseat floor covering. The driver's compartment floor covering shall be attached to the floor.

Exception - On "Type A" buses, the driver's compartment floor area shall be manufacturer's standard. It shall be attached to the floor.

- (4) Center aisle covering shall be fire-resistant, non-skid and wear-resistant. If ribbed, minimum thickness shall be one hundred eighty-seven thousandths inch measured from the top of the ribs.
- (5) Metal, composite molding, bonding or non-metal welding shall cover all floor-covering joints.
- (6) Molding around the wheel-well and floor covering shall be provided to seal floor covering with the wheel well.

(7) A fuel access plate shall be installed for easy access to fuel gauge mechanism and shall be installed above the regular floor covering when possible. The access plate shall not be undercoated. Panel shall be sealed to prevent any leakage or moisture. Diamond plate may be used as an access panel. ("Type A" buses and alternative fuel systems excluded)

(8) Floor covering on top step landing shall be one piece.

(9) A plywood floor shall be applied on top of the steel floor. Floor covering shall be applied on top of the plywood. Plywood shall be five-eighths inch five-ply type CD exterior grade. Plywood shall extend to fire-wall and under the driver's seat. Plywood shall be sanded and vacuumed before covering is applied. Waterproof sealing material shall be applied to seams in the sections of plywood floor. Plywood shall be four feet by eight feet sections, pieced only as necessary. Waterproof sealing applied on top of the plywood to hold the floor covering is considered as one method of sealing the seams in the plywood floor.

(10) Equivalent material applied to top of steel floor may be used in lieu of plywood, provided it has equal or greater insulation r-value, sound abatement, deterioration-resistant and moisture-resistant properties.

(11) If alternate materials are used in lieu of plywood, manufacturer must certify that FMVSS 571.222 and 571.302 are met.

(V) Frame.

(1) Frame shall be designed to correspond with or exceed standard practice performance criteria for trucks of same general load specifications used for highway service.

(2) Chassis frame shall extend to rear edge of rear body cross member.

(3) Frame side members shall be one-piece construction with the following exceptions:

(a) Extension of these members shall be designed, furnished, and guaranteed by chassis or body manufacturer. Installation shall be guaranteed by the company installing the extension. Extension of frame lengths shall not be for the purpose of extending wheel base.

(b) No holes shall be permitted in the chassis rails except those drilled at the chassis plant or authorized by the frame manufacturer.

(4) Welding to chassis rails is permitted only when guaranteed by the company making the modifications and authorized by the frame manufacturer. The Ohio state highway patrol shall be notified after the repair and authorized inspection have been completed and prior to the school bus being operated with students on board.

(W) Fuel fill opening- shall be in the body and shall be equipped with a hinged cover held closed by a spring or other conveniently operated device. The mechanism that holds this cover closed shall be sufficient to keep it closed under severe operating conditions. "Type B, C, and D" buses may be provided without a door only if a fuel bucket/spill containment is provided. Exception: On "Type A" buses, the fuel fill opening shall be manufacturer's standard.

(X) Fuel system-all fuel storage specifications shall conform to FMVSS 571.301 (fuel system integrity). In addition:

(1) Fuel tank shall have a minimum capacity of twenty-five gallons, for buses up to and including a shell capacity of fifty-nine passengers. School buses of sixty passengers and above shall have a minimum capacity of sixty gallons. It shall be filled and vented outside of the body. Construction will prevent the spillage or drainage of fuel on any part of the exhaust system.

(2) Fuel filter with replaceable element shall be installed.

(3) In addition to the fuel filter, all diesel fueled engines shall have a water separator installed between fuel tank and the injector pumps. The fuel/water separator may be incorporated with the fuel filter but the fuel/water separator shall not serve as the fuel filter.

(4) Drain plug of at least one-fourth inch pipe thread shall be located in center of the bottom of gas and diesel fuel tanks.

(Y) Glass.

(1) All glass shall be manufactured and maintained as follows:

Location	Glass type	Rating
Service door	Laminated	AS 1 or AS 2
Emergency door	Tempered or laminated	AS 2 or AS 3
Emergency window	Tempered or laminated	AS 2 or AS 3
Windshield	Laminated	AS 1
Driver's side glass	Laminated	AS 1 or AS 2
All other glass in passenger's area	Tempered or laminated	AS 2 or AS 3

Exception- On "Type A" buses the driver's door glass shall be manufacturer's standard.

(2) All other glass not noted in table shall meet FMVSS 571.205 glazing materials.

(Z) Heaters.

(1) Heating systems shall provide evenly distributed heat throughout the bus body and provide defrosting for windshield, driver's left side window and service door.

(2) Buses shall be equipped with heaters capable of maintaining inside temperature of fifty degrees Fahrenheit using an ambient temperature of zero degrees Fahrenheit as measured per SAE standard J2233.

(3) Buses shall be equipped with a front heater.

(4) Heaters shall display the name plate rating in accordance with the standard code for testing and rating automotive bus hot water heater and ventilating equipment.

(5) All heaters shall be independently controlled by multi-speed switches.

(6) All hot water lines inside the drivers/passengers area shall be enclosed.

(7) Heater cores and fans shall be completely encased, but designed to permit servicing heating assembly by removing all or part of the case.

(8) Heater hose installation in the engine compartment shall include two shut-off valves able to shut off coolant completely when necessary.

(a) One shut-off valve shall be mounted between the water pump inlet and heater hose connection.

(b) One shut-off valve shall be mounted between the engine block and the heater hose connection.

(9) There shall be a heater flow regulating valve installed for convenient operation when the driver is in a normal seated position.

(AA) "Type D" buses with an interior engine cover shall have a device or design to secure the engine cover when in the open position, or shall be fully removable.

"Type C" buses shall have a design for the hood that minimizes the risk of accidental closing.

(BB) Horns.

Buses shall be equipped with a horn(s) of standard make capable of producing complex sound in band of audio frequencies from two hundred fifty to two thousand hertz and having total sound level of one hundred to one hundred twenty decibels within these frequency limits when measured at fifty feet from the vehicle. Air horns are permitted.

(CC) Electronic stability control shall be equipped on:

(1) Air brake equipped school buses with a build date of August 1, 2019 or later.

(2) All school buses with a build date of August 1, 2020 or later.

(DD) Instruments and instrument panel.

(1) Chassis shall be equipped with the following instruments and gauges. Lights in lieu of gauges are not acceptable.

(a) Speedometer.

(b) Odometer which will show accrued mileage up to nine hundred ninety-nine thousand nine hundred ninety-nine.

(c) A voltmeter showing the battery voltage. The voltmeter shall be off when the ignition switch is in the off position.

(d) Oil pressure gauge.

(e) Engine temperature gauge.

(f) Fuel gauge.

(g) Air brake systems shall have independent gauges indicating air pressure in the primary and secondary air tanks.

(h) Buses may be equipped with a tachometer.

(i) A diesel exhaust fluid (DEF) gauge is required for diesel engines.

(2) All buses shall have a warning system consisting of a light and optional audible warning to notify driver of low engine oil pressure, low engine coolant level, and coolant overheating. System shall not automatically shut off engine, unless warning signals have been displayed to the driver and the engine has derated for a period of time.

(3) The visibility and illumination of the instruments must comply with FMVSS 571.101.

(EE) Insulation.

(1) Bus body shall be fully insulated in the roof and all body panels to deaden sound, reduce vibrations and heat transfer.

(2) Fire resistant fiberglass insulation or equivalent material of at least one-inch thickness shall be added in the roof, in addition to the usual sprayed on material.

(FF) Interior.

(1) Interior of the school bus shall be free of all projections.

(2) All school buses shall require inner lining on ceiling and walls and shall include acoustical (perforated) headlining in the driver area.

(3) The interior sound level at the driver's seating position shall not exceed ninety decibels when measured in accordance with test procedures found in 49 CFR 393.94(C).

(4) Cameras and other monitoring devices may be installed inside the bus as long as they do not intrude into the head impact zone. For "Type C and D" buses, cameras may

be installed in the ceiling as long as they are above the window ling. Cameras mounted on the sidewall cannot protrude more than three inches. All camera mounting shall meet FMVSS 571.222.

(5) Padded/foam covered panels may be installed on the interior walls to prevent head injuries by self-abusive pupils.

(a) The padded panels shall be constructed of the same materials used in the construction of the bus seats.

(b) The padded panel may cover the window.

(c) The padded panel shall be attached to the sidewall of the bus.

(d) The padded panels shall not obstruct any portion of an emergency window or exit.

(e) Materials used in the padded panel shall comply with FMVSS 571.302.

(GG) Inside body height shall be a minimum of seventy-two inches measured from floor to ceiling at any point on longitudinal center line from the beginning of the aisle of the passenger compartment to the end of the aisle.

For "Type A" buses, the inside body height shall be a minimum of sixty-eight inches measured from floor to ceiling at any point on longitudinal center line from the beginning of the aisle of the passenger compartment to the end of the aisle.

Inside height measurement does not apply to air conditioning equipment.

(HH) Lamps, signals and backing warning device.

(1) All lamps herein listed and their installation shall conform to current standards and recommendations of the society of automotive engineers and meet FMVSS

571.108.

(2) Construction of components:

(a) Directional signal, stop light, taillight, marker light, clearance light, identification light, back up light and reflector lenses shall meet applicable society of automotive engineers standards.

(b) All exterior lamp sockets shall be zinc-plated or chromated steel, or other suitable non-corrosive materials such as plastic or stainless steel.

(c) Alternately flashing warning signal lamps, body-mounted directional signals and stop lamps shall be grounded.

(3) When the ignition switch is in the off position, the hazard warning, stop light, marker lights, headlamps, passenger dome lights and emergency exit audible warnings shall be operational.

(4) The service door step-well light shall automatically operate when the headlights are in operation and be activated by a switch controlled by the service door.

(5) High beams are to be controlled by a column mounted dimmer switch.

(6) A maximum of two fog lamps may be installed. Fog lamps shall be amber in color.

(7) Daytime running lamps are required.

(8) One white strobe light shall be installed on the roof of the bus. The strobe light shall cycle sixty to two-hundred forty flashes per minute. The roof strobe light shall be installed on the top of the bus toward the rear as close to the center of the bus as is practical.

(9) Interior dome lights.

(a) Passenger dome lights when activated shall adequately and uniformly illuminate aisleway to three to four foot candles.

(b) All dome lights shall be equipped with clear/white shatter-proof lenses.

(c) Passenger dome lights shall be controlled by switches in the driver's console. Passenger zones may be switched separately. Power shall be provided when the ignition switch is in the "On" or "Accessory" position and shall be on a protected circuit.

(d) A separate driver dome light shall be provided and controlled by a single switch in the driver's console.

(10) Directional signals.

(a) Side and rear directional signals shall be wired to operate properly with the front directional signals.

(b) Manufacturer shall install required signal lamps to the directional signal control switch so all directional signal lamps shall be operative. The directional signal system shall be installed on an integral part of the hazard warning signal switch activated by an independent switch furnished.

(c) Direction signals, when illuminated, shall be amber in color and shall meet society of automotive engineers specifications.

(d) Rear directional signals shall have a minimum of thirty-eight square inches of illuminated surface each. The rear directional signals shall be identical in type, shape, size, and location.

(11) Backing warning devices.

(a) Two back up lights are required and shall be mounted on or below the belt line on the school bus body. Back up lights shall conform to FMVSS 571.108.

(b) All school buses shall be equipped with an audible electrical warning device, automatically actuated when the bus is in reverse gear. Device shall be one hundred seven decibels or more, meeting SAE standard J994. Device shall be installed in an area on or behind the rear axle. A variable volume sounding device ranging from eighty-seven to one hundred twelve decibels may be used, maintaining a minimum of five decibels above the ambient noise level. Audible electric warning devices shall meet FMVSS 571.112.

(12) Stop/tail lights.

(a) Each bus shall have two combination stop/tail lamps as required in FMVSS 571.108. These two lamps shall be identical in type, shape, and size.

(b) In addition to the two stop/tail lamps required by FMVSS 571.108, each bus shall be equipped with two combination stop/tail lamps with a minimum illuminated surface area of thirty-eight square inches, emitting red light plainly visible from a distance of five hundred feet to the rear. These lamps shall be as high as practical but below the window line and spaced as far apart laterally as practicable, but not less than three feet. Measurements shall be taken from lamp centers. These additional two lamps shall be identical in type, shape, and size.

(13) A white light shall be installed to illuminate the area on the body near the left lower brake/tail lamp to illuminate the state identification number. This light may be incorporated into the lower left brake/tail lamp.

This light may be incorporated into the lower left brake/tail lamp.

(14) All school bus body lamps and reflectors shall comply with FMVSS 571.108.

Reflectors shall not be combined with any other lamp or items of associated equipment. Exception-front amber reflectors may be incorporated into a front lamp.

(15) All marker, clearance and identity lamps shall conform to society of automotive engineers standards for the type of lamp. These lamps shall be activated by the chassis headlight switch.

(II) Alternately flashing warning signal lamps.

(1) Each school bus shall be equipped with a system of four red signal lamps and four amber signal lamps. Both red and amber lamps shall be installed in accordance with FMVSS 571.108 and the SAE standard J887. The four red signal lamps shall be identical in type, shape, and size.

(a) There shall be a system in place to allow the deactivation of the amber signal lamps without the need to open the service door or placing the ignition switch in the off position.

(b) These lamps shall alternately flash at a designated rate from sixty to one hundred twenty cycles per minute.

(2) Operation of alternately flashing warning signal lamps, stop signal arm and optional crossing control arm.

(a) Power for these devices shall be provided when the ignition switch is in the on position. An optional master switch may be installed for these devices. If installed, a green pilot light shall illuminate to indicate the system is ready for operation.

(b) With the service door closed and the manual momentary (amber) start switch activated and released, the amber pilot light and amber warning lamps shall flash.

(c) When the service door is moved toward the open position, the amber pilot light and the amber warning lamps shall turn off and the red pilot light and red warning lamps shall flash.

(d) The stop signal arm and, if installed, the crossing control arm shall automatically extend when the red warning lamps flash. The stop arm signal lamps shall flash when extended.

(e) When the service door is closed, the red warning lights shall deactivate, the stop signal arm and, if installed, crossing control arm shall retract.

(f) With the service door open and the manual momentary (amber) start switch activated and released, the red pilot light and the red warning lamps shall flash and the stop signal arm and, if equipped, the crossing control arm shall extend. The stop signal arm lamps shall flash when extended.

(g) The service door switch that activates the red warning lamps shall be located in a position by a cover or guard that will prevent the switch from being activated or deactivated by persons boarding or leaving the bus.

(h) An emergency override system for activating the red warning lamps and extending the stop signal arm shall be installed. This emergency override system shall be operational with the ignition switch in any position.

(i) A red colored or red outlined emergency override switch shall be installed. This switch shall be marked with the words "Emergency warning lights" (abbreviation is acceptable). This shall be the only red colored or red outlined switch on the switch panel.

(ii) When the emergency override system is activated, the red pilot light and the red warning lamps shall flash and the stop signal arm shall extend with the

door in any position.

The stop signal arm lamps shall flash when extended.

(iii) Power for the system shall be on a protected circuit.

(3) Hoods may be installed above the lamps. If installed, all the lamps shall have hoods.

(4) Eight lamp warning system.

(a) LED "strobelike" effects may be used in the eight lamp warning system. All lamps shall conform to FMVSS 571.108.

(b) All eight amber and red lamps must alternate between left and right at a rate of sixty to one-hundred twenty cycles per minutes.

(c) The "strobe" effect must appear as a flash of varying intensity and not as separate flashes.

(d) All the warning lamps, amber and red, must "strobe" in the same pattern. The same pattern is defined as the same number of flashes per lamp before the system alternates to the other side.

(JJ) Length of a school bus shall not exceed forty-five feet, excluding safety devices/bumpers.

(KK) Markings - body shall display the following identification (in black lettering):

(1) "School Bus" at least eight inches high on both the front and rear of the body. Lettering shall be placed as high as possible without impairment of visibility. The "School Bus" marking shall be on a background of retro reflective national school bus

yellow material. The material shall be the same quality and type as Federal Motor Vehicle Safety Standards requires for the marking of emergency exits.

(2) "Stop" on the rear of the bus in letters not less than ten inches centered on the metal panel of the rear emergency door or for rear engine buses, centered on the rear of the bus.

(3) Name of the private school, school district, school bus owner or operator shall appear on both sides of the vehicle at the belt line and be at least five inches high.

(4) The county in which the private school or the school district resides shall appear on both sides of the vehicle in a minimum of three-inch letters, unless the name of the city or exempted village appears as a part of the school district or private school name.

(5) When required by FMCSR 390.21, the ownership of the school bus (company name, city, state and USDOT number as required by FMCSR 390.21) shall appear on both sides of the bus. The right side markings shall be to the rear of the service door below the floor rub rail. The left side markings shall be in the area of the stop signal arm below the floor rub rail. The markings shall be in two inch high letters. Only the information required by FMCSR 390.21 shall be displayed.

(6) Local school bus numbers approximately five inches high and shall be located as follows:

(a) On body near the service door.

(b) On the body, near the right lower tail light.

(c) On the left side of the body in the area of the driver's window.

(d) Visible to the front, in an area designated by the operator.

(7) Buses shall be marked with reflectorized material as follows: All reflectorized material shall be a retro reflective material which meets FMVSS 517.217 for marking of emergency exits. In addition:

(a) All reflective material shall be able to retain at least fifty per cent of the reflective values for a minimum of seven years.

(b) All reflective material shall be warranted against peeling, cracking, separation and lifting due to weather conditions, pressure and mechanical washing for a minimum of seven years.

(c) Reflective yellow material two inches in width (plus/minus one fourth inch) shall be applied to both corners of the rear of the bus and extend from the bumper vertically up to the top of the rear windows.

(d) All emergency doors and windows shall be outlined in yellow only. Emergency roof exits shall be outlined in either red, yellow or white around the outside perimeter with reflective material as required by FMVSS 571.217.

(e) Both sides of the bus body shall be marked with retro reflective national school bus yellow material, extending the length of the body (passenger area) and located at approximately the floor line. This marking shall be two inches in width and run parallel with the rub rails.

(f) Three seven by fourteen-inch wide pieces of white to white-silver in color reflective material shall be applied to the front and rear of the bus to accommodate the state identification and local bus numbers as follows:

(i) State identification number on the front of the vehicle shall be placed on a seven by fourteen-inch piece of reflective material which shall be applied and centered on the front bumper. If the bumper is manufactured with the holes in

the center for two hooks, the seven by fourteen-inch piece of material may be located on the driver's side of the bumper. If the bumper is less than six inches in height, a seven by fourteen-inch plate will be permanently attached to the bumper to accommodate the seven by fourteen-inch reflective material.

(ii) In the rear, the state identification number and the local number shall be placed on individual seven by fourteen-inch pieces of reflective material which shall be applied and centered on the flat surface near the left and right lower taillights as the bus body design will allow.

(8) Additional markings are permitted as follows and are optional:

(a) Vinyl stick-on lettering in lieu of painted-on letters, either on original equipment or as replacement letters.

(b) Maximum of two American flags, overall size of each decal shall not exceed six inches by eleven inches, shall not interfere with required markings and shall not obstruct the view of the driver.

(c) Buses used for transporting special needs may display two universal handicap emblems. The emblems shall be reflectorized white on blue located on the front and rear bumpers.

(d) Route number or marker bracket beside entrance door.

(e) Optional roof ID numbers, if used, shall be black in color and must measure eighteen inches tall by ten inches wide with a brush stroke of three inches.

(LL) Mirrors.

(1) The buses shall be equipped with mirrors meeting the requirements of FMVSS 571.111 for school buses.

(2) Interior rear view mirror shall be a minimum of six by thirty inches. Exception:

"Type A" - Six by sixteen inches.

(3) All exterior mirrors shall be heated and fully adjustable.

(4) Mirror assemblies shall be warranted one hundred per cent replacement coverage for thirty-six months against rust, and corrosion, and against any reduction in clarity of view due to discoloration or other deterioration of the lens.

(MM) Mounting of body on chassis.

(1) Isolators shall be placed between the frame and body main cross-sill and intermediate members. The isolators shall be at least one-fourth inch thick and shall be attached to chassis frame or body members in a fashion to prevent the isolators from shifting, separating or displacement of the isolators under severe operating conditions.

(2) Bus body shall be attached to chassis frame in such a manner as to prevent shifting or separation of the body from the chassis under severe operating conditions.

(3) Body front shall be attached and sealed to the chassis cowl in such a manner as to prevent entry of moisture.

(NN) Mud flaps - All buses shall be equipped with mud flaps at all wheel positions. The mud flaps shall be installed as close as practical to the wheel. May use a system for suppressing flying spray on a wet surface. Such system may consist of filament type, which is installed around the fender wheels. A full width mud flap or a full-width filament type plastic skirt may be placed at the rear wheels. May utilize rubber fender extensions. Length shall be in accordance with section [5577.11](#) of the Revised Code.

(OO) Noise suppression switch.

(1) Shall be installed within easy reach of the driver in a seated position.

(2) Switch shall be an on/off type.

(3) Shall deactivate factory installed devices that produce noise. (Exception - devices installed in "Type A" buses during the manufacture of the chassis/cowl).

(a) AM/FM radios

(b) Heaters

(c) Air conditioner fans

(d) Fans

(e) Defrosters

(4) This switch shall not deactivate safety systems, such as windshield wipers, lighting systems or two-way communication systems.

(PP) Openings created in mounting of bus body to chassis shall be sealed by manufacturer to prevent entrance of gases, dust or moisture into passenger and driver's compartments. All openings made by the manufacturer in the floorboard and fire-wall shall be sealed by the manufacturer to prevent gases from entering the driver's compartment.

(QQ) Paint standard.

(1) Paint finish coats to bus body, hood, cowl and all attaching sheet metal and fiberglass parts shall be warranted for sixty months or one-hundred thousand miles whichever comes first, one hundred per cent parts and labor, for adhesion and color retention.

(2) Paint finish to bus body, hood, cowl and all attaching sheet metal and fiberglass parts shall be applied for a total dry thickness at a minimum of one and eight tenths mils over all painted surfaces.

(3) Body exterior.

All exterior body and chassis sheet metal including fiberglass shall be painted with polyurethane paint or equivalent.

(4) All interior panels, walls, and roof surfaces shall be painted. Finished metal/plastic may be unpainted.

(RR) Passenger seats.

(1) All seating and restraining barrier design and construction must meet the provisions of FMVSS 571.222. The top surface of the restraining barriers shall be the same height as the top surfaces of the seat backs

(2) All seats shall have a minimum depth of fifteen inches.

(3) Equipment installed above the seating area must comply with head impact zone requirements found in FMVSS 571.222.

(4) All school buses equipped with attachment points, securement devices (seatbelts), and/or wheelchair securement systems shall also be equipped with a durable webbing cutter having a full width hand-grip and protected blade. The cutter must be appropriately stored in the driver's compartment to the left of the driver. This equipment may be excluded from the manufacturer's bid and purchased separately.

(5) Seat construction.

(a) Seat, seat back cushion, seat bottom and restraining barrier shall be covered with flame-barrier fire-retardant seating material. Such material must pass the "National School Transportation Specifications and Procedures" school bus seat upholstery "Fire Block" test.

(i) The flame will not spread to seat back in front of the fire.

(ii) The flames on the rear seat will self-extinguish.

(iii) The flame-barrier, fire retardant seating material will successfully prevent the underlying padding material from being exposed to the flames.

(b) All seat backs and restraining barriers shall be covered with energy-absorbing padding material as required by FMVSS 571.222.

(SS) Engine power.

(1) Diesel engines shall have a minimum of two-hundred horsepower and five-hundred twenty foot pounds of torque.

(2) Gasoline engines shall have a minimum of two-hundred sixty-five horsepower and four-hundred sixty foot pounds of torque.

(3) All diesel engines shall be equipped with a block heater. Heater shall be a minimum of seven hundred fifty watts.

(4) Dry type air cleaner with an air filter restriction indicator is required.

(5) Engine shall be equipped with a fast idle (air, electronic, or manual) throttle.

(TT) School safety zone decal

(1) The decal shall be approximately seven inches by seven inches. At the top of the decal shall be the word "NOTICE", underlined, and immediately below the word "NOTICE" the symbol for no handgun allowed. Below the no handgun symbol, the decal shall state in black lettering on a white background "Unless Otherwise Authorized By Law, Pursuant to Ohio Revised Code Section [2923.122](#), No Person Shall Knowingly Possess, Have Under The Persons Control, Convey Or Attempt To Convey A Deadly Weapon Or Dangerous Ordnance Onto A School Bus (School Safety Zone)."

(2) No other markings, symbols or lettering are allowed on the decal.

(3) The location of the decal shall be on the flat metal surface just above the seat rub rail to the immediate left of the service door. The right edge of the decal shall be within two inches of the end of the rub rail.

(UU) Service door.

(1) Service door shall be outward-opening, split-type on all buses. Service door shall be air, electric, or manually-operated. Door shall be under the control of the driver and designed to afford easy release and prevent accidental opening.

(2) Service door shall be located on right side of bus opposite the driver and within the driver's direct view.

(3) Service door entrance shall have minimum horizontal opening of twenty-four inches and minimum vertical opening of sixty-eight inches.

(4) Glass in service door shall provide maximum area of visibility for operation of the bus.

(5) All edges of service door shall be sealed by a flexible material to prevent air from entering the door entrance when closed.

(6) There shall be no safety rail or handholds mounted on the inside of the service door.

(7) Only one handle or handhold may be placed on the outside of the service door.

(8) There shall be a head bumper pad installed on the inside at the top of the service door frame. This pad shall be approximately four inches in width and extend across the entire top of the service door opening and shall meet FMVSS 571.302 for flammability standards of interior materials.

(9) Service door shall have suitable access for easy lubrication.

(10) Manual service door.

(a) When a manual lever is used, no parts shall come together so as to shear or crush fingers. Lever shall be equipped with an approved safety latch to prevent accidental opening which will lock in the over-center position when door is fully opened. Manually operated doors shall require no more than twenty-five pounds of pull to close and may be hydraulically assisted.

(b) Manual door control mechanism shall be heavy-duty bearing type, adjustable for wear, non-corrosive, anodized steel, or equivalent.

(11) On power-operated service doors, the emergency release valve, switch or device to release the service door must be placed above the required head bumper or at the same height to the immediate left or right of the service door and must be clearly labeled.

(a) When the switch or lever is in the released position, it will override door control in drivers area making it non-operational in any of the door control positions.

(b) Whenever the switch or lever is placed in the released position, it will allow the service door to be opened or closed freely.

(c) This switch and distribution block that control eight light warning system shall be securely fastened near the door control valve and shall be easily accessible for service and repair.

(VV) Service door steps.

(1) The first step of the service door shall be not less than six inches and not more than sixteen inches from the ground.

(2) Service door entrance shall be equipped with step risers that do not exceed ten inches. Risers in each case shall be approximately equal.

(3) Steps shall be enclosed to prevent accumulation of ice and snow.

(4) Steps shall not protrude beyond side body line.

(5) Hand rails of maximum length, but not less than ten inches long, shall be installed on both sides of the interior step-well area. These handles shall be stainless steel clad. Both hand rails shall be securely fastened and designed so as to prevent clothing or any other item from being caught. Hand rails may also be yellow polymer coated.

(6) Surface of steps shall be of non-skid material.

(a) Steps shall be covered with a covering material which shall have non-skid characteristics. Step covering shall have a turned-down nosing of a contrasting color of either white, silver, yellow, or bright orange.

(b) Step covering shall be securely fastened to the steps in a manner that will minimize tripping. This requires that the heads of mounting screws or bolts be below the top surface of the step tread.

(7) The service door steps shall have a restraining barrier that is in compliance with FMVSS 571.222 positioned between the stairwell and the passenger compartment. This barrier shall be equipped with a modesty panel.

(WW) Steering system.

(1) All school buses shall be equipped with heavy-duty, truck-type integral power steering.

(2) Steering mechanism shall provide for easy adjustment for lost motion.

(3) No changes shall be made in the steering mechanism unless approved by manufacturer.

(4) There shall be a clearance of at least two inches between steering wheel and any other surface or control.

(XX) Stop signal arm.

The stop signal arm(s) shall comply with the requirements of FMVSS 571.131 (School bus pedestrian devices).

(YY) Sun visor.

The school bus shall be equipped with at least one interior adjustable transparent sun visor, folding type, which is a minimum of six by thirty inches in size. If only one sun visor is installed, it shall be positioned for use by the driver. Exception - "Type A" shall be manufacturer's standard.

(ZZ) Tires, rims and wheels.

(1) Manufacturer or authorized dealer shall balance all wheels and make necessary alignments prior to delivery.

(2) Dual rear tires and wheels shall be provided (except "Type A".)

(3) All tires on a given axle shall be of same size, tread design, construction and capacity.

(4) All shall be equipped with tubeless radial tires of proper size and load range that meets or exceeds chassis gross vehicle weight ratings and body combinations as required by FMVSS 571.120.

(5) Disc wheels shall be used.

(6) Wheel composition - wheels shall be made of steel or aluminum.

(AAA) Tow hooks.

(1) Two rear tow hooks shall be installed, with the hooks and their mounting of sufficient strength to tow the vehicle at the vehicle's curb weight.

(2) Two front tow hooks may be installed, with the hooks and their mounting of sufficient strength to tow the vehicle at the vehicle's curb weight.

(BBB) Transmission.

(1) Manufacturer shall furnish an automatic transmission or automated manual transmission.

(2) The torque rating of the transmission shall meet or exceed the maximum torque output of the engine.

(CCC) Vehicle identification plates - All chassis serial number identification plates shall be attached to the bus and be clearly identifiable and legible for the entire life of the bus.

(DDD) Wheel-housings.

(1) Wheel-house shall be attached to floor components in such a manner to prevent water, dust or fumes from entering the bus body.

(2) Wheel-house openings shall allow for easy tire removal and service.

(3) Inside height of wheel-housing above floor line shall not exceed ten inches.

(4) Wheel-housing shall provide clearance to permit the installation of tire chains per SAE standard J683.

(EEE) Width - Overall width of a bus shall not exceed one hundred and two inches, excluding mirrors.

(FFF) Windows.

(1) Driver's side window shall be capable of opening and be equipped with a lock-type closure. Exception - "Type A" buses shall be manufacturer's standard.

(2) Each side window in the passenger area shall be split sash and provide unobstructed opening at least nine inches high and twenty-two inches wide, obtained by lowering the upper sash. If the bus body design does not allow for all windows to meet the width dimension requirement, up to two side windows per side in the passenger area may be less than the twenty-two inches. They may or may not open.

(3) Individual windows shall not have a vertical opening greater than twelve inches. Stops shall be installed where needed to obtain this dimension.

(4) Windows may be tinted pursuant to section [4513.241](#) of the Revised Code. Any window tinting must also meet FMVSS 571.205.

(GGG) Windshield washers.

(1) The windshield washer fluid reservoir shall have a minimum capacity of two quarts in a rigid plastic container. It shall be mounted outside the interior of the bus and in a position readily accessible for refilling,

(2) Windshield washer shall incorporate a check valve in supply line. Check valve will not allow washer fluid to drain back into washer tank when not in use.

(3) Heated windshield wipers and heated washer fluid units are permitted.

(HHH) Windshield wipers.

(1) Two heavy-duty windshield wipers are required.

(2) Windshield wipers to be operated by one or more electric motors.

(3) Windshield wipers shall be controlled with one switch. Switch shall provide multi-speed operation and shall incorporate an intermittent position.

(4) Wipers shall be wet arm type.

(5) The windshield wiper motor or motors shall have sufficient power and the wiper arms and blades shall be of sufficient length to provide the largest cleaning area possible.

(III) Wiring.

(1) All wiring shall conform to current society of automotive engineers standards. Wiring diagrams must be made available to school bus owners.

(2) Short circuit protective devices shall be provided for each major circuit and all other electrical functions, except starter motor and ignition circuits.

(3) All wires within body shall be insulated and protected by a covering which will protect them from external damage and minimize dangers from short circuits. Whenever wires pass through body members, additional protection in the form of an appropriate type of insert shall be provided.

(4) Wires not enclosed within body shell shall be fastened securely at intervals of not more than twenty-four inches.

(5) All joints shall be soldered or joined by equally effective connectors.

(JJJ) Lift equipped buses. Buses equipped with wheel chair lifts shall also meet all applicable paragraph of rule [4501-5-03](#) of the Administrative Code.

Supplemental Information

Authorized By: [4511.76](#)

Amplifies: [4511.76](#)

Five Year Review Date: 11/30/2023

Prior Effective Dates: 2/11/1993

Rule [4501-5-03](#) | School buses used to transport pupils with special needs.

Effective: January 1, 2019 **Promulgated Under:** 119.03

[Comment: For dates and availability of material incorporated by reference in this rule, see paragraph (S) of rule [4501-5-01](#) of the Administrative Code.]

(A) General requirements.

(1) All school buses equipped with wheelchair lifts shall comply with rules [4501-5-01](#) to 4501-5-3 of the Administrative Code, when applicable.

(2) School buses used for the transportation of pupils with special needs that require the use of a wheelchair and/or other mobile seating devices which prohibit use of the

regular service entrance shall be equipped with a power lift.

(3) The lift shall be located on the right side of the body, in no way attached to the exterior sides of the bus. When not extended, the lift shall be confined within the perimeter of the school bus body. Buses equipped with a lift shall not have passenger seats installed directly across the aisle way from the lift unless they are seats that have been designed to be removed for the purposes of alternative passenger securement.

(4) All school buses equipped with wheelchair lifts shall be equipped with an electronic communication system. The electronic communication system shall be capable of constant contact with the school or dispatch point. This equipment may be excluded from the bus manufacturer's bid and purchased separately.

(B) Aisle width.

All school buses equipped with a power lift shall provide a minimum thirty inch pathway leading from any wheelchair position to an emergency door that is at least thirty inches wide.

(C) All school buses equipped with attachment points, securement devices and/or wheelchair securement systems shall also be equipped with a durable webbing cutter having a full width hand-grip and protected blade. The cutter must be appropriately stored in the driver's compartment to the left of the driver. This equipment may be excluded from the bus manufacturer's bid and purchased separately.

(D) Wheelchair securement.

School buses designed for the transportation of pupils using wheelchairs or special mobility devices shall have wheelchair securement and occupant restraint systems that comply with SAE standard J2249 installed as specified in FMVSS 571.222, sections 5.4.1 to 5.4.4 at each wheelchair location.

(E) Wheelchair tie down systems.

Securement system for mobile seating device and occupant.

- (1) The designated area for the wheelchair/mobile seating devices shall be a minimum of fifty inches longitudinally by thirty inches laterally. The designated area shall be free of all obstructions pursuant to FMVSS 571.222.
- (2) All securement system attachments or coupling hardware not permanently attached shall be designed to prohibit accidental disconnecting.
- (3) All attachment or coupling systems designed to be connected or disconnected frequently shall be accessible and operable without the use of tools or other mechanical assistance.
- (4) No mobile seating device securement system hardware shall be placed so that a mobile seating device can be placed blocking access to lift door or emergency door(s) with the exception of track hardware.
- (5) Detailed instructions, including a parts list, regarding installation and use of the system shall be provided with each vehicle equipped with an occupant securement system.
- (6) Detailed instruction, including a diagram regarding the proper placement and position of the system including correct belt angles, shall be provided with each vehicle equipped with an occupant securement system.

(F) Seat spacing.

Flexibility in seat spacing and floor plan layout to accommodate special devices shall be permitted.

(G) Special service entrance.

- (1) The special service entrance door(s) shall be at any convenient point on the right curb side of the bus. When the special service entrance is located forward of the rear wheels, the special service entrance door(s), in the open position, shall not obstruct the regular service entrance.
- (2) The opening may extend below the floor through the bottom of the body skirt. If such an opening is used, reinforcements shall be installed at the front and rear of the floor opening to support the floor and give the same strength as other floor openings.
- (3) The opening, with doors open, shall be of sufficient width and depth to allow the passage of wheelchairs/mobile seating devices and mobility aids. The minimum clear opening shall be fifty-six inches in height
- (4) A drip molding shall be installed above the opening to effectively divert water from the opening. Door posts and headers for the special service entrance shall be reinforced sufficiently to provide support and strength equivalent to the areas of the side of the bus not used for service doors. A head bumper pad shall be installed above the special service entrance and/or on the lift frame.

(H) Special service entrance doors.

- (1) A single door or double door may be used.
- (2) All doors shall open outwardly. The special service entrance doors shall have a positive fastening device/s to hold doors in the open position and door bumpers to prevent door-to-body contact.
- (3) All doors shall be weather-sealed. Buses with double doors shall be so constructed that a flange on the forward door overlaps the edge of the rear door when closed.

(4) When manually operated dual doors are provided, the rear door shall have at least a one-point fastening device to the header. The forward mounted door shall have at least three-point fastening devices. One shall be to the header, one to the floor line of the body, and the other shall be into the rear door. These locking devices shall afford maximum safety when the doors are in the closed position.

(5) The door and hinge mechanism shall be of a strength that is greater than, or equivalent to, the emergency door exit. Door materials, panels and structural strength shall be equivalent to the conventional service and emergency doors. Color, lettering and other exterior features shall match adjacent sections of the body.

(6) Each door shall have a window compatible within one inch of the lower line of adjacent sash. The window shall be installed to provide a dustproof/watertight fit.

(7) The special service entrance shall be equipped with a device that will actuate a visible signal located in the drivers compartment when the door or doors are not securely closed and the ignition is in on position.

(I) Lift area lighting.

Adequate lighting of the lift area (both inside and outside) shall be provided. The light(s) used to illuminate the interior and exterior of the lift area shall be activated when the lift door is open.

(J) Weight distribution.

On buses equipped with a power lift, the battery box and fuel tank may be located by the manufacturer to provide equal weight distribution to compensate for the weight of the power lift mechanism.

(K) Alternator and power supply.

A circuit breaker shall be installed between the power source and the lift motor. It shall be located as close to the power source as possible but not within the passenger/driver compartment.

(L) Alternator shall have a minimum power output of two-hundred forty amps. "Type A" buses must be the largest alternator output available from the original equipment manufacturer.

(M) Power lift.

The lift and installation shall comply with the requirements set forth in FVMSS 571.403 (platform lift systems for motor vehicles) and FMVSS 571.404 (platform lift installations in motor vehicles).

(1) Design

(a) The lifting mechanism and platform shall be able to lift a minimum payload of eight hundred pounds.

(b) Lifts installed in all school buses shall be fully automatic, including folding and unfolding of the platform.

(2) Controls shall be provided that enable the operator to activate the lift mechanism from either inside or outside of the bus.

(3) School buses delivered to Ohio owners after the effective date of this rule shall have the lift installed by the body manufacturer or authorized agent. The installation shall be certified and the documentation shall be provided by the installer. It shall be the responsibility of the installer to ensure the levelness of the vehicle after installation. The location of the lift shall not adversely affect the legal axle loading, the maneuverability, structural, or the safe operation of the vehicle in which it is installed.

(4) When the special service entrance is installed adjacent to the stepwell or has a seat or wheelchair position directly in front of or behind the special service entrance, a barrier panel shall be installed. The barrier panel shall prevent the possibility of a body limb from becoming entangled in the lift mechanism. The barrier panel may be flush to the outside wall of the bus or at a dimension that will prohibit a passenger from coming in contact with the lift mechanism. The panel may be constructed of aluminum or polycarbonate. The end of the barrier panel exposed to the passenger compartment shall be secured to a padded stanchion extending from the floor to the ceiling. The stanchion shall be attached to the roof bow or a reinforced panel in the ceiling. If the barrier panel is used in conjunction with a padded stanchion and modesty panel, it shall extend approximately six inches above the lift platform and extend beyond the stationary frame or the most inner part of the lift exposed to the passenger compartment. If the barrier panel is a separate installation, it shall be constructed of the same materials and extend from the floor to approximately six inches above the lift platform and extend beyond the stationary frame or the most inner part of the lift exposed to the passenger compartment. The barrier panel shall be in compliance with FMVSS 571.302 and FMVSS 571.222.

Supplemental Information

Authorized By: 4511.76

Amplifies: 4511.76

Five Year Review Date: 11/30/2023

Prior Effective Dates: 7/15/1978, 2/18/1993, 9/1/1998

Rule 4501-5-04 | Evaluation of new equipment or changes to existing equipment on school buses.

Effective: January 1, 2019 ***Promulgated Under:*** 119.03

(A) Application - This rule shall apply to any manufacturer, dealer or owner of a school bus who wishes to incorporate or install any equipment or product other than those specified

in rules [4501-5-01](#) to [4501-5-03](#) of the Administrative Code, including equipment or products the manufacturer, dealer or owner believes are equivalent or superior to equipment or products specified in those rules.

(B) Permission - Prior to the installation of new or additional equipment or products, or changes to any existing equipment on a school bus, the school bus manufacturer, dealer or owner shall request permission, in writing, from the director This request shall include, but is not limited to,

(1) A complete description of the item, including:

(a) Photographs or illustrations.

(b) Diagrams and/or informational pamphlets.

(c) Schematics, technical data, specifications, dimensions.

(d) Results of testing by an independent testing facility or laboratory specific to the product being tested.

(e) If the manufacturer, dealer or owner believes the equipment or product is equivalent or superior to those included in the specifications set forth in rules [4501-5-01](#) to [4501-5-03](#) of the Administrative Code, a statement explaining how this determination was made.

(2) If practical, actual models or samples of the equipment or product should be submitted.

(3) Complete cost estimates for the new or additional product, or equipment, including initial, cost and cost of installation, labor, maintenance, and continued use.

(4) An explanation of the expected benefits.

(5) A statement of the effect, whether positive or negative, the new or additional product, or equipment, will have on other construction standards contained in rules [4501-5-01](#) to [4501-5-03](#) of the Administrative Code, as well as on any other rules governing pupil transportation adopted by the department of public safety or the department of education.

(C) Upon receipt of a request for permission submitted pursuant to paragraph (B) of this rule, the department may take any of the following actions:

(1) Immediately approve or deny the request.

(2) Ask for additional information.

(3) Order field testing to be conducted in accordance with paragraph (D) of this rule.

(4) Seek guidance from the Ohio school bus construction standards advisory group at the group's next meeting. The advisory group shall make recommendations to the department regarding the action to be taken in response to the request.

(D) The department may order field testing of any new or additional equipment or products as part of the process of evaluating a request for permission submitted pursuant to paragraph (B) of this rule. The length and extent of the field test shall be determined by the department based on the nature of the product being tested, but shall be conducted on no fewer than three school buses. If a field test is being conducted pursuant to a request submitted by a school bus manufacturer, the manufacturer will be expected to maintain, adjust, and modify the equipment or product at no cost to the school bus owner. At the conclusion of the field test, an evaluation of the equipment or product shall be submitted on a form provided by the department by at least three school bus drivers, one school bus mechanic, and one school transportation director.

(E) The department shall either approve or deny the request for permission submitted pursuant to paragraph (B) of this rule after considering the materials submitted in support of the request, any recommendations made by the Ohio school bus construction standards advisory group, the results of any field tests conducted, and any other information available to the department. The manufacturer or the school owner will be notified in writing of the director's decision. If the request for permission is denied, the school bus manufacturer, dealer or owner may appeal the denial in writing to the director. The director's decision on such appeal shall be final.

(F) Based upon any information which may become available to the department regarding any equipment or products that have been approved pursuant to this rule for use on school buses, the director may remove such equipment or products from service. The manufacturer, dealer or the school owner will be notified in writing of the director's decision.

(1) Any item deleted from service shall be removed from the bus, unless written permission to retain it is given by the director.

(2) Any item which, at any time is determined to present a potential hazard to occupants of the school bus or other persons or property, shall be immediately removed from the school bus and any ongoing field test terminated.

(G) The department shall maintain a list of all equipment or products that have been approved pursuant to this rule for use in school buses. This list shall be made available upon request in writing to: the "Ohio State Highway Patrol Office of Licensing and Commercial Standards, Ohio Department of Public Safety, 1970 West Broad Street, Columbus, Ohio 43223."

Supplemental Information

Authorized By: 4511.76

Amplifies: 4511.76

Five Year Review Date: 11/30/2023

Prior Effective Dates: 1/1/1990, 9/1/2003

Section 3327.10 | Qualifications of drivers.

Ohio Revised Code / Title 33 Education-Libraries / Chapter 3327 Transportation; Tuition

A new version of Section 3327.10 exists that will be effective as of December 29, 2023

[View New Version](#)

Effective: October 9, 2021 **Latest Legislation:** House Bill 263 - 133rd General Assembly

(A) No person shall be employed as driver of a school bus or motor van, owned and operated by any school district or educational service center or privately owned and operated under contract with any school district or service center in this state, who has not received a certificate from either the educational service center governing board that has entered into an agreement with the school district under section [3313.843](#) or [3313.845](#) of the Revised Code or the superintendent of the school district, certifying that such person is at least eighteen years of age and is qualified physically and otherwise for such position. The service center governing board or the superintendent, as the case may be, shall provide for an annual physical examination that conforms with rules adopted by the state board of education of each driver to ascertain the driver's physical fitness for such employment. The examination shall be performed by one of the following:

- (1) A person licensed under Chapter 4731. or 4734. of the Revised Code or by another state to practice medicine and surgery, osteopathic medicine and surgery, or chiropractic;
- (2) A physician assistant;
- (3) A certified nurse practitioner;
- (4) A clinical nurse specialist;
- (5) A certified nurse-midwife;

(6) A medical examiner who is listed on the national registry of certified medical examiners established by the federal motor carrier safety administration in accordance with 49 C.F.R. part 390.

Any certificate may be revoked by the authority granting the same on proof that the holder has been guilty of failing to comply with division (D)(1) of this section, or upon a conviction or a guilty plea for a violation, or any other action, that results in a loss or suspension of driving rights. Failure to comply with such division may be cause for disciplinary action or termination of employment under division (C) of section [3319.081](#), or section [124.34](#) of the Revised Code.

(B) No person shall be employed as driver of a school bus or motor van not subject to the rules of the department of education pursuant to division (A) of this section who has not received a certificate from the school administrator or contractor certifying that such person is at least eighteen years of age and is qualified physically and otherwise for such position. Each driver shall have an annual physical examination which conforms to the state highway patrol rules, ascertaining the driver's physical fitness for such employment. The examination shall be performed by one of the following:

(1) A person licensed under Chapter 4731. or 4734. of the Revised Code or by another state to practice medicine and surgery, osteopathic medicine and surgery, or chiropractic;

(2) A physician assistant;

(3) A certified nurse practitioner;

(4) A clinical nurse specialist;

(5) A certified nurse-midwife;

(6) A medical examiner who is listed on the national registry of certified medical examiners established by the federal motor carrier safety administration in accordance with 49 C.F.R.

part 390.

Any written documentation of the physical examination shall be completed by the individual who performed the examination.

Any certificate may be revoked by the authority granting the same on proof that the holder has been guilty of failing to comply with division (D)(2) of this section.

(C) Any person who drives a school bus or motor van must give satisfactory and sufficient bond except a driver who is an employee of a school district and who drives a bus or motor van owned by the school district.

(D) No person employed as driver of a school bus or motor van under this section who is convicted of a traffic violation or who has had the person's commercial driver's license suspended shall drive a school bus or motor van until the person has filed a written notice of the conviction or suspension, as follows:

(1) If the person is employed under division (A) of this section, the person shall file the notice with the superintendent, or a person designated by the superintendent, of the school district for which the person drives a school bus or motor van as an employee or drives a privately owned and operated school bus or motor van under contract.

(2) If employed under division (B) of this section, the person shall file the notice with the employing school administrator or contractor, or a person designated by the administrator or contractor.

(E) In addition to resulting in possible revocation of a certificate as authorized by divisions (A) and (B) of this section, violation of division (D) of this section is a minor misdemeanor.

(F)(1) Not later than thirty days after June 30, 2007, each owner of a school bus or motor van shall obtain the complete driving record for each person who is currently employed or otherwise authorized to drive the school bus or motor van. An owner of a school bus or

motor van shall not permit a person to operate the school bus or motor van for the first time before the owner has obtained the person's complete driving record. Thereafter, the owner of a school bus or motor van shall obtain the person's driving record not less frequently than semiannually if the person remains employed or otherwise authorized to drive the school bus or motor van. An owner of a school bus or motor van shall not permit a person to resume operating a school bus or motor van, after an interruption of one year or longer, before the owner has obtained the person's complete driving record.

(2) The owner of a school bus or motor van shall not permit a person to operate the school bus or motor van for ten years after the date on which the person pleads guilty to or is convicted of a violation of section [4511.19](#) of the Revised Code or a substantially equivalent municipal ordinance.

(3) An owner of a school bus or motor van shall not permit any person to operate such a vehicle unless the person meets all other requirements contained in rules adopted by the state board of education prescribing qualifications of drivers of school buses and other student transportation.

(G) No superintendent of a school district, educational service center, community school, or public or private employer shall permit the operation of a vehicle used for pupil transportation within this state by an individual unless both of the following apply:

(1) Information pertaining to that driver has been submitted to the department of education, pursuant to procedures adopted by that department. Information to be reported shall include the name of the employer or school district, name of the driver, driver license number, date of birth, date of hire, status of physical evaluation, and status of training.

(2) The most recent criminal records check required by division (J) of this section has been completed and received by the superintendent or public or private employer.

(H) A person, school district, educational service center, community school, nonpublic school, or other public or nonpublic entity that owns a school bus or motor van, or that contracts with another entity to operate a school bus or motor van, may impose more stringent restrictions on drivers than those prescribed in this section, in any other section of the Revised Code, and in rules adopted by the state board.

(I) For qualified drivers who, on July 1, 2007, are employed by the owner of a school bus or motor van to drive the school bus or motor van, any instance in which the driver was convicted of or pleaded guilty to a violation of section [4511.19](#) of the Revised Code or a substantially equivalent municipal ordinance prior to two years prior to July 1, 2007, shall not be considered a disqualifying event with respect to division (F) of this section.

(J)(1) This division applies to persons hired by a school district, educational service center, community school, chartered nonpublic school, or science, technology, engineering, and mathematics school established under Chapter 3326. of the Revised Code to operate a vehicle used for pupil transportation.

For each person to whom this division applies who is hired on or after November 14, 2007, the employer shall request a criminal records check in accordance with section [3319.39](#) of the Revised Code and every six years thereafter. For each person to whom this division applies who is hired prior to that date, the employer shall request a criminal records check by a date prescribed by the department of education and every six years thereafter.

(2) This division applies to persons hired by a public or private employer not described in division (J)(1) of this section to operate a vehicle used for pupil transportation.

For each person to whom this division applies who is hired on or after November 14, 2007, the employer shall request a criminal records check prior to the person's hiring and every six years thereafter. For each person to whom this division applies who is hired prior to that

date, the employer shall request a criminal records check by a date prescribed by the department and every six years thereafter.

(3) Each request for a criminal records check under division (J) of this section shall be made to the superintendent of the bureau of criminal identification and investigation in the manner prescribed in section [3319.39](#) of the Revised Code, except that if both of the following conditions apply to the person subject to the records check, the employer shall request the superintendent only to obtain any criminal records that the federal bureau of investigation has on the person:

(a) The employer previously requested the superintendent to determine whether the bureau of criminal identification and investigation has any information, gathered pursuant to division (A) of section [109.57](#) of the Revised Code, on the person in conjunction with a criminal records check requested under section [3319.39](#) of the Revised Code or under division (J) of this section.

(b) The person presents proof that the person has been a resident of this state for the five-year period immediately prior to the date upon which the person becomes subject to a criminal records check under this section.

Upon receipt of a request, the superintendent shall conduct the criminal records check in accordance with section [109.572](#) of the Revised Code as if the request had been made under section [3319.39](#) of the Revised Code. However, as specified in division (B)(2) of section [109.572](#) of the Revised Code, if the employer requests the superintendent only to obtain any criminal records that the federal bureau of investigation has on the person for whom the request is made, the superintendent shall not conduct the review prescribed by division (B)(1) of that section.

(K)(1) Until the effective date of the amendments to rule 3301-83-23 of the Ohio Administrative Code required by the second paragraph of division (E) of section [3319.39](#) of

the Revised Code, any person who is the subject of a criminal records check under division (J) of this section and has been convicted of or pleaded guilty to any offense described in division (B)(1) of section [3319.39](#) of the Revised Code shall not be hired or shall be released from employment, as applicable, unless the person meets the rehabilitation standards prescribed for nonlicensed school personnel by rule 3301-20-03 of the Ohio Administrative Code.

(2) Beginning on the effective date of the amendments to rule 3301-83-23 of the Ohio Administrative Code required by the second paragraph of division (E) of section [3319.39](#) of the Revised Code, any person who is the subject of a criminal records check under division (J) of this section and has been convicted of or pleaded guilty to any offense that, under the rule, disqualifies a person for employment to operate a vehicle used for pupil transportation shall not be hired or shall be released from employment, as applicable, unless the person meets the rehabilitation standards prescribed by the rule.

Last updated February 14, 2023 at 3:40 PM

Available Versions of this Section

September 29, 2013 – House Bill 59 - 130th General Assembly

April 6, 2017 – Amended by House Bill 388 - 131st General Assembly

March 20, 2019 – Amended by House Bill 338 - 132nd General Assembly

October 17, 2019 – Amended by House Bill 166 - 133rd General Assembly

October 9, 2021 – Amended by House Bill 263 - 133rd General Assembly

December 29, 2023 – Amended by Senate Bill 131 - 134th General Assembly

Section 3327.10 | Qualifications of drivers.

Ohio Revised Code / Title 33 Education-Libraries / Chapter 3327 Transportation; Tuition

You are viewing a new version of this section that is not yet in effect

[View Current Version](#)

Effective: December 29, 2023 **Latest Legislation:** Senate Bill 131 - 134th General Assembly

(A) Except as provided in division (L) of this section, no person shall be employed as driver of a school bus or motor van, owned and operated by any school district or educational service center or privately owned and operated under contract with any school district or service center in this state, who has not received a certificate from either the educational service center governing board that has entered into an agreement with the school district under section [3313.843](#) or [3313.845](#) of the Revised Code or the superintendent of the school district, certifying that such person is at least eighteen years of age and is qualified physically and otherwise for such position. The service center governing board or the superintendent, as the case may be, shall provide for an annual physical examination that conforms with rules adopted by the state board of education of each driver to ascertain the driver's physical fitness for such employment. The examination shall be performed by one of the following:

- (1) A person licensed under Chapter 4731. or 4734. of the Revised Code or by another state to practice medicine and surgery, osteopathic medicine and surgery, or chiropractic;
- (2) A physician assistant;
- (3) A certified nurse practitioner;
- (4) A clinical nurse specialist;

(5) A certified nurse-midwife;

(6) A medical examiner who is listed on the national registry of certified medical examiners established by the federal motor carrier safety administration in accordance with 49 C.F.R. part 390.

Any certificate may be revoked by the authority granting the same on proof that the holder has been guilty of failing to comply with division (D)(1) of this section, or upon a conviction or a guilty plea for a violation, or any other action, that results in a loss or suspension of driving rights. Failure to comply with such division may be cause for disciplinary action or termination of employment under division (C) of section [3319.081](#), or section [124.34](#) of the Revised Code.

(B) Except as provided in division (L) of this section, no person shall be employed as driver of a school bus or motor van not subject to the rules of the department of education pursuant to division (A) of this section who has not received a certificate from the school administrator or contractor certifying that such person is at least eighteen years of age and is qualified physically and otherwise for such position. Each driver shall have an annual physical examination which conforms to the state highway patrol rules, ascertaining the driver's physical fitness for such employment. The examination shall be performed by one of the following:

(1) A person licensed under Chapter 4731. or 4734. of the Revised Code or by another state to practice medicine and surgery, osteopathic medicine and surgery, or chiropractic;

(2) A physician assistant;

(3) A certified nurse practitioner;

(4) A clinical nurse specialist;

(5) A certified nurse-midwife;

(6) A medical examiner who is listed on the national registry of certified medical examiners established by the federal motor carrier safety administration in accordance with 49 C.F.R. part 390.

Any written documentation of the physical examination shall be completed by the individual who performed the examination.

Any certificate may be revoked by the authority granting the same on proof that the holder has been guilty of failing to comply with division (D)(2) of this section.

(C) Any person who drives a school bus or motor van must give satisfactory and sufficient bond except a driver who is an employee of a school district and who drives a bus or motor van owned by the school district.

(D) No person employed as driver of a school bus or motor van under this section who is convicted of a traffic violation or who has had the person's commercial driver's license suspended shall drive a school bus or motor van until the person has filed a written notice of the conviction or suspension, as follows:

(1) If the person is employed under division (A) of this section, the person shall file the notice with the superintendent, or a person designated by the superintendent, of the school district for which the person drives a school bus or motor van as an employee or drives a privately owned and operated school bus or motor van under contract.

(2) If employed under division (B) of this section, the person shall file the notice with the employing school administrator or contractor, or a person designated by the administrator or contractor.

(E) In addition to resulting in possible revocation of a certificate as authorized by divisions (A) and (B) of this section, violation of division (D) of this section is a minor misdemeanor.

(F)(1) Not later than thirty days after June 30, 2007, each owner of a school bus or motor van shall obtain the complete driving record for each person who is currently employed or otherwise authorized to drive the school bus or motor van. An owner of a school bus or motor van shall not permit a person to operate the school bus or motor van for the first time before the owner has obtained the person's complete driving record. Thereafter, the owner of a school bus or motor van shall obtain the person's driving record not less frequently than semiannually if the person remains employed or otherwise authorized to drive the school bus or motor van. An owner of a school bus or motor van shall not permit a person to resume operating a school bus or motor van, after an interruption of one year or longer, before the owner has obtained the person's complete driving record.

(2) The owner of a school bus or motor van shall not permit a person to operate the school bus or motor van for ten years after the date on which the person pleads guilty to or is convicted of a violation of section [4511.19](#) of the Revised Code or a substantially equivalent municipal ordinance.

(3) An owner of a school bus or motor van shall not permit any person to operate such a vehicle unless the person meets all other requirements contained in rules adopted by the state board of education prescribing qualifications of drivers of school buses and other student transportation.

(G) No superintendent of a school district, educational service center, community school, or public or private employer shall permit the operation of a vehicle used for pupil transportation within this state by an individual unless both of the following apply:

(1) Information pertaining to that driver has been submitted to the department of education, pursuant to procedures adopted by that department. Information to be reported shall include the name of the employer or school district, name of the driver, driver license number, date of birth, date of hire, status of physical evaluation, and status of training.

(2) The most recent criminal records check required by division (J) of this section has been completed and received by the superintendent or public or private employer.

(H) A person, school district, educational service center, community school, nonpublic school, or other public or nonpublic entity that owns a school bus or motor van, or that contracts with another entity to operate a school bus or motor van, may impose more stringent restrictions on drivers than those prescribed in this section, in any other section of the Revised Code, and in rules adopted by the state board.

(I) For qualified drivers who, on July 1, 2007, are employed by the owner of a school bus or motor van to drive the school bus or motor van, any instance in which the driver was convicted of or pleaded guilty to a violation of section [4511.19](#) of the Revised Code or a substantially equivalent municipal ordinance prior to two years prior to July 1, 2007, shall not be considered a disqualifying event with respect to division (F) of this section.

(J)(1) This division applies to persons hired by a school district, educational service center, community school, chartered nonpublic school, or science, technology, engineering, and mathematics school established under Chapter 3326. of the Revised Code to operate a vehicle used for pupil transportation.

For each person to whom this division applies who is hired on or after November 14, 2007, the employer shall request a criminal records check in accordance with section [3319.39](#) of the Revised Code and every six years thereafter. For each person to whom this division applies who is hired prior to that date, the employer shall request a criminal records check by a date prescribed by the department of education and every six years thereafter.

(2) This division applies to persons hired by a public or private employer not described in division (J)(1) of this section to operate a vehicle used for pupil transportation.

For each person to whom this division applies who is hired on or after November 14, 2007, the employer shall request a criminal records check prior to the person's hiring and every six

years thereafter. For each person to whom this division applies who is hired prior to that date, the employer shall request a criminal records check by a date prescribed by the department and every six years thereafter.

(3) Each request for a criminal records check under division (J) of this section shall be made to the superintendent of the bureau of criminal identification and investigation in the manner prescribed in section [3319.39](#) of the Revised Code, except that if both of the following conditions apply to the person subject to the records check, the employer shall request the superintendent only to obtain any criminal records that the federal bureau of investigation has on the person:

(a) The employer previously requested the superintendent to determine whether the bureau of criminal identification and investigation has any information, gathered pursuant to division (A) of section [109.57](#) of the Revised Code, on the person in conjunction with a criminal records check requested under section [3319.39](#) of the Revised Code or under division (J) of this section.

(b) The person presents proof that the person has been a resident of this state for the five-year period immediately prior to the date upon which the person becomes subject to a criminal records check under this section.

Upon receipt of a request, the superintendent shall conduct the criminal records check in accordance with section [109.572](#) of the Revised Code as if the request had been made under section [3319.39](#) of the Revised Code. However, as specified in division (B)(2) of section [109.572](#) of the Revised Code, if the employer requests the superintendent only to obtain any criminal records that the federal bureau of investigation has on the person for whom the request is made, the superintendent shall not conduct the review prescribed by division (B)(1) of that section.

(K)(1) Until the effective date of the amendments to rule 3301-83-23 of the Ohio Administrative Code required by the second paragraph of division (E) of section [3319.39](#) of the Revised Code, any person who is the subject of a criminal records check under division (J) of this section and has been convicted of or pleaded guilty to any offense described in division (B)(1) of section [3319.39](#) of the Revised Code shall not be hired or shall be released from employment, as applicable, unless the person meets the rehabilitation standards prescribed for nonlicensed school personnel by rule 3301-20-03 of the Ohio Administrative Code.

(2) Beginning on the effective date of the amendments to rule 3301-83-23 of the Ohio Administrative Code required by the second paragraph of division (E) of section [3319.39](#) of the Revised Code, any person who is the subject of a criminal records check under division (J) of this section and has been convicted of or pleaded guilty to any offense that, under the rule, disqualifies a person for employment to operate a vehicle used for pupil transportation shall not be hired or shall be released from employment, as applicable, unless the person meets the rehabilitation standards prescribed by the rule.

(L) The superintendent of a school district or an educational service center governing board shall issue a certificate as a driver of a school bus or motor van or a certificate to operate a vehicle used for pupil transportation in accordance with Chapter 4796. of the Revised Code to an applicant if either of the following applies:

(1) The applicant holds a certificate in another state.

(2) The applicant has satisfactory work experience, a government certification, or a private certification as described in that chapter as a school bus or motor van driver or a pupil transportation vehicle operator in a state that does not issue one or both of those certificates.

Available Versions of this Section

September 29, 2013 – House Bill 59 - 130th General Assembly

April 6, 2017 – Amended by House Bill 388 - 131st General Assembly

March 20, 2019 – Amended by House Bill 338 - 132nd General Assembly

October 17, 2019 – Amended by House Bill 166 - 133rd General Assembly

October 9, 2021 – Amended by House Bill 263 - 133rd General Assembly

December 29, 2023 – Amended by Senate Bill 131 - 134th General Assembly

Section 4511.76 | Administrative rules for school bus construction, design, equipment, operation and licensing.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

A new version of Section 4511.76 exists that will be effective as of October 3, 2023

[View New Version](#)

Effective: October 9, 2021 **Latest Legislation:** House Bill 263 - 133rd General Assembly

(A) The department of public safety, by and with the advice of the superintendent of public instruction, shall adopt and enforce rules relating to the construction, design, and equipment, including lighting equipment required by section [4511.771](#) of the Revised Code, of all school buses both publicly and privately owned and operated in this state.

(B) The department of education, by and with the advice of the director of public safety, shall adopt and enforce rules relating to the operation of all vehicles used for pupil transportation.

(C) No person shall operate a vehicle used for pupil transportation within this state in violation of the rules of the department of education or the department of public safety. No person, being the owner thereof or having the supervisory responsibility therefor, shall permit the operation of a vehicle used for pupil transportation within this state in violation of the rules of the department of education or the department of public safety.

(D) The department of public safety shall adopt and enforce rules relating to the issuance of a license under section [4511.763](#) of the Revised Code. The rules may relate to the condition of the equipment to be operated; the liability and property damage insurance carried by the applicant; the posting of satisfactory and sufficient bond; and such other rules as the

director of public safety determines reasonably necessary for the safety of the pupils to be transported.

(E) A chartered nonpublic school may own and operate, or contract with a vendor that supplies, a vehicle originally designed for not more than nine passengers, not including the driver, to transport students to and from regularly scheduled school sessions when one of the following applies:

(1) A student's school district of residence has declared the transportation of the student impractical pursuant to section [3327.02](#) of the Revised Code; or

(2) A student does not live within thirty minutes of the chartered nonpublic school and the student's school district is not required to transport the student under section [3327.01](#) of the Revised Code.

(F) As used in this section, "vehicle used for pupil transportation" means any vehicle that is identified as such by the department of education by rule and that is subject to Chapter 3301-83 of the Administrative Code.

(G) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of this section or section [4511.63](#), [4511.761](#), [4511.762](#), [4511.764](#), [4511.77](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

Last updated October 9, 2021 at 4:54 AM

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

July 3, 2019 – Amended by House Bill 62 - 133rd General Assembly

October 9, 2021 – Amended by House Bill 263 - 133rd General Assembly

October 3, 2023 – Amended by House Bill 33 - 135th General Assembly

Section 4511.76 | Administrative rules for school bus construction, design, equipment, operation and licensing.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

You are viewing a new version of this section that is not yet in effect

[View Current Version](#)

Effective: October 3, 2023 **Latest Legislation:** House Bill 33 - 135th General Assembly

(A) The department of public safety, by and with the advice of the department of education and workforce, shall adopt and enforce rules relating to the construction, design, and equipment, including lighting equipment required by section [4511.771](#) of the Revised Code, of all school buses both publicly and privately owned and operated in this state.

(B) The department of education and workforce, by and with the advice of the director of public safety, shall adopt and enforce rules relating to the operation of all vehicles used for pupil transportation.

(C) No person shall operate a vehicle used for pupil transportation within this state in violation of the rules of the department of education and workforce or the department of public safety. No person, being the owner thereof or having the supervisory responsibility therefor, shall permit the operation of a vehicle used for pupil transportation within this state in violation of the rules of the department of education and workforce or the department of public safety.

(D) The department of public safety shall adopt and enforce rules relating to the issuance of a license under section [4511.763](#) of the Revised Code. The rules may relate to the condition of the equipment to be operated; the liability and property damage insurance carried by the applicant; the posting of satisfactory and sufficient bond; and such other rules as the

director of public safety determines reasonably necessary for the safety of the pupils to be transported.

(E) A chartered nonpublic school or a community school may own and operate, or contract with a vendor that supplies, a vehicle originally designed for not more than nine passengers, not including the driver, to transport students to and from regularly scheduled school sessions when one of the following applies:

- (1) A student's school district of residence has declared the transportation of the student impractical pursuant to section [3327.02](#) of the Revised Code;
- (2) A student does not live within thirty minutes of the chartered nonpublic school or the community school, as applicable, and the student's school district is not required to transport the student under section [3327.01](#) of the Revised Code;
- (3) The governing authority of the chartered nonpublic school or the community school has offered to provide the transportation for its students in lieu of the students being transported by their school district of residence.

(F) A school district may own and operate, or contract with a vendor that supplies, a vehicle originally designed for not more than nine passengers, not including the driver, to transport students to and from regularly scheduled school sessions, if both of the following apply to the operation of that vehicle:

- (1) The number of students to be transported is not more than nine;
- (2) The students attend a chartered nonpublic school or a community school, and the school district regularly transports students to that chartered nonpublic school or that community school.

(G) A school district or the governing authority of a chartered nonpublic school or community school that uses a vehicle originally designed for not more than nine

passengers, not including the driver, in accordance with division (E) or (F) of this section, shall ensure that all of the following apply to the operation of that vehicle:

- (1) A qualified mechanic inspects the vehicle not fewer than two times each year and determines that it is safe for pupil transportation;
- (2) The driver of the vehicle does not stop on the roadway to load or unload passengers;
- (3) The driver of the vehicle meets the requirements specified for a driver of a school bus or motor van under section [3327.10](#) of the Revised Code and any corresponding rules adopted by the department of education and workforce. Notwithstanding that section or any department rules to the contrary, the driver is not required to have a commercial driver's license but shall have a current, valid driver's license, and shall be accustomed to operating the vehicle used to transport the students;
- (4) The driver and all passengers in the vehicle comply with the requirements of sections [4511.81](#) and [4513.263](#) of the Revised Code, as applicable.

(H) As used in this section, "vehicle used for pupil transportation" means any vehicle that is identified as such by the department of education and workforce by rule and that is subject to Chapter 3301-83 of the Administrative Code.

(I) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of this section or section [4511.63](#), [4511.761](#), [4511.762](#), [4511.764](#), [4511.77](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

Last updated September 5, 2023 at 11:46 AM

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

July 3, 2019 – Amended by House Bill 62 - 133rd General Assembly

October 9, 2021 – Amended by House Bill 263 - 133rd General Assembly

October 3, 2023 – Amended by House Bill 33 - 135th General Assembly

Section 4511.77 | School bus - painting and marking.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) No person shall operate, nor shall any person being the owner thereof or having supervisory responsibility therefor permit the operation of, a school bus within this state unless it is painted national school bus yellow and is marked on both front and rear with the words "school bus" in black lettering not less than eight inches in height and on the rear of the bus with the word "stop" in black lettering not less than ten inches in height.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of this section or section [4511.63](#), [4511.76](#), [4511.761](#), [4511.762](#), [4511.764](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

(C) Whenever a person is found guilty in a court of record of a violation of this section, the trial judge, in addition to or independent of all other penalties provided by law, may suspend for any period of time not exceeding three years, or cancel the license of any person, partnership, association, or corporation, issued under section [4511.763](#) of the Revised Code.

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

Section 4511.761 | School bus inspections.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft /
Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) The state highway patrol shall inspect every school bus to ascertain whether its construction, design, and equipment comply with the regulations adopted pursuant to section [4511.76](#) of the Revised Code and all other provisions of law.

The superintendent of the state highway patrol shall adopt a distinctive inspection decal not less than twelve inches in size, and bearing the date of the inspection, which shall be affixed to the outside surface of each side of each school bus which upon such inspection is found to comply with the regulations adopted pursuant to section [4511.76](#) of the Revised Code. The appearance of said decal shall be changed from year to year as to shape and color in order to provide easy visual inspection.

No person shall operate, nor shall any person being the owner thereof or having supervisory responsibility therefor permit the operation of, a school bus within this state unless there are displayed thereon the decals issued by the state highway patrol bearing the proper date of inspection for the calendar year for which the inspection decals were issued.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of this section or section [4511.63](#), [4511.76](#), [4511.762](#), [4511.764](#), [4511.77](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

(C) Whenever a person is found guilty in a court of record of a violation of this section, the trial judge, in addition to or independent of all other penalties provided by law, may suspend for any period of time not exceeding three years, or cancel the license of any person, partnership, association, or corporation, issued under section [4511.763](#) of the Revised Code.

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

Section 4511.762 | School bus no longer used for transporting school children.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) Except as provided in division (B) of this section, no person who is the owner of a bus that previously was registered as a school bus that is used or is to be used exclusively for purposes other than the transportation of children, shall operate the bus or permit it to be operated within this state unless the bus has been painted a color different from that prescribed for school buses by section [4511.77](#) of the Revised Code and painted in such a way that the words "stop" and "school bus" are obliterated.

(B) Any church bus that previously was registered as a school bus and is registered under section [4503.07](#) of the Revised Code may retain the paint color prescribed for school buses by section [4511.77](#) of the Revised Code if the bus complies with all of the following:

- (1) The words "school bus" required by section [4511.77](#) of the Revised Code are covered or obliterated and the bus is marked on the front and rear with the words "church bus" painted in black lettering not less than ten inches in height;
- (2) The automatically extended stop warning sign required by section [4511.75](#) of the Revised Code is removed and the word "stop" required by section [4511.77](#) of the Revised Code is covered or obliterated;
- (3) The flashing red and amber lights required by section [4511.771](#) of the Revised Code are covered or removed;
- (4) The inspection decal required by section [4511.761](#) of the Revised Code is covered or removed;

(5) The identification number assigned under section [4511.764](#) of the Revised Code and marked in black lettering on the front and rear of the bus is covered or obliterated.

(C) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of this section or section [4511.63](#), [4511.76](#), [4511.761](#), [4511.764](#), [4511.77](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

(D) Whenever a person is found guilty in a court of record of a violation of this section, the trial judge, in addition to or independent of all other penalties provided by law, may suspend for any period of time not exceeding three years, or cancel the license of any person, partnership, association, or corporation, issued under section [4511.763](#) of the Revised Code.

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

Section 4511.763 | Licensing by department of public safety.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft /
Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

A new version of Section 4511.763 exists that will be effective as of December 29, 2023 [View New Version](#)

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) No person, partnership, association, or corporation shall transport pupils to or from school on a school bus or enter into a contract with a board of education of any school district for the transportation of pupils on a school bus, without being licensed by the department of public safety.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If, within one year of the offense, the offender previously has been convicted of or pleaded guilty to one predicate motor vehicle or traffic offense, whoever violates this section is guilty of a misdemeanor of the fourth degree. If, within one year of the offense, the offender previously has been convicted of two or more predicate motor vehicle or traffic offenses, whoever violates this section is guilty of a misdemeanor of the third degree.

Last updated February 28, 2023 at 1:19 PM

Available Versions of this Section

January 1, 2004 – Amended by Senate Bill 123 - 124th General Assembly

December 29, 2023 – Amended by Senate Bill 131 - 134th General Assembly

Section 4511.763 | Licensing by department of public safety.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft /
Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

You are viewing a new version of this section that is not yet in effect

[View Current Version](#)

Effective: December 29, 2023 **Latest Legislation:** Senate Bill 131 - 134th General Assembly

(A) No person, partnership, association, or corporation shall transport pupils to or from school on a school bus or enter into a contract with a board of education of any school district for the transportation of pupils on a school bus, without being licensed by the department of public safety.

Notwithstanding the requirements for a license issued under this division, the director shall issue a license in accordance with Chapter 4796. of the Revised Code to a person if either of the following applies:

- (1) The person holds a license or certificate in another state.
- (2) The person has satisfactory work experience, a government certification, or a private certification as described in that chapter transporting pupils on a school bus in a state that does not issue that license or certificate.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If, within one year of the offense, the offender previously has been convicted of or pleaded guilty to one predicate motor vehicle or traffic offense, whoever violates this section is guilty of a misdemeanor of the fourth degree. If, within one year of the offense, the offender previously has been convicted of two or more predicate motor

vehicle or traffic offenses, whoever violates this section is guilty of a misdemeanor of the third degree.

Last updated March 1, 2023 at 1:16 PM

Available Versions of this Section

January 1, 2004 – Amended by Senate Bill 123 - 124th General Assembly

December 29, 2023 – Amended by Senate Bill 131 - 134th General Assembly

Section 4511.764 | School buses must be registered and have identifying number.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) The superintendent of the state highway patrol shall require school buses to be registered, in the name of the owner, with the state highway patrol on forms and in accordance with regulations as the superintendent may adopt.

When the superintendent is satisfied that the registration has been completed, the superintendent shall assign an identifying number to each school bus registered in accordance with this section. The number so assigned shall be marked on the front and rear of the vehicle in black lettering not less than six inches in height and will remain unchanged as long as the ownership of that vehicle remains the same.

No person shall operate, nor shall any person, being the owner thereof or having supervisory responsibility therefor, permit the operation of a school bus within this state unless there is displayed thereon an identifying number in accordance with this section.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If the offender previously has been convicted of or pleaded guilty to one or more violations of section [4511.63](#), [4511.76](#), [4511.761](#), [4511.762](#), [4511.77](#), or [4511.79](#) of the Revised Code or a municipal ordinance that is substantially similar to any of those sections, whoever violates this section is guilty of a misdemeanor of the fourth degree.

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

Section 4511.771 | Signal lamps to be equipped with flashing red and amber lights.

Ohio Revised Code / Title 45 Motor Vehicles-Aeronautics-Watercraft / Chapter 4511 Traffic Laws - Operation Of Motor Vehicles

Effective: January 1, 2004 **Latest Legislation:** Senate Bill 123 - 124th General Assembly

(A) Every school bus shall, in addition to any other equipment and distinctive markings required pursuant to sections [4511.76](#), [4511.761](#), [4511.764](#), and [4511.77](#) of the Revised Code, be equipped with signal lamps mounted as high as practicable, which shall display to the front two alternately flashing red lights and two alternately flashing amber lights located at the same level and to the rear two alternately flashing red lights and two alternately flashing amber lights located at the same level, and these lights shall be visible at five hundred feet in normal sunlight. The alternately flashing red lights shall be spaced as widely as practicable, and the alternately flashing amber lights shall be located next to them.

(B) Except as otherwise provided in this division, whoever violates this section is guilty of a minor misdemeanor. If, within one year of the offense, the offender previously has been convicted of or pleaded guilty to one predicate motor vehicle or traffic offense, whoever violates this section is guilty of a misdemeanor of the fourth degree. If, within one year of the offense, the offender previously has been convicted of two or more predicate motor vehicle or traffic offenses, whoever violates this section is guilty of a misdemeanor of the third degree.

Available Versions of this Section

January 1, 2004 – Senate Bill 123 - 124th General Assembly

49 CFR § 380.600 - Compliance date for training requirements for entry-level drivers.

§ 380.600 Compliance date for training requirements for entry-level drivers.

Compliance with the provisions of this subpart is required on or after February 7, 2022.

[[81 FR 88790](#), Dec. 8, 2016, as amended at [85 FR 6100](#), Feb. 4, 2020]

49 CFR § 380.601 - Purpose and scope.

§ 380.601 Purpose and scope.

This subpart establishes training requirements for entry-level drivers, as defined in this subpart, and minimum content for theory and Behind-the-Wheel (BTW) training curricula. [Entry-level driver training](#), as defined in this subpart, applies only to those individuals who apply for a commercial [driver's](#) license (CDL) or a CDL upgrade or endorsement and does not otherwise amend substantive CDL requirements in [part 383](#) of this chapter.

49 CFR § 380.603 - Applicability.

§ 380.603 Applicability.

(a) The rules in this subpart apply to all entry-level drivers, as defined in this subpart, who intend to drive CMVs as defined in [§ 383.5](#) of this chapter in interstate and/or [intrastate commerce](#), except:

(1) [Drivers](#) excepted from the CDL requirements under [§ 383.3\(c\)](#), (d), and (h) of this chapter;

(2) [Drivers](#) applying for a restricted CDL under [§ 383.3\(e\)](#) through (g) of this chapter;

(3) Military personnel with military CMV experience who meet all the requirements and conditions of [§ 383.77](#) of this chapter; and

(4) [Drivers](#) applying for a removal of a restriction in accordance with [§ 383.135\(b\)\(7\)](#).

(b) [Drivers](#) issued a Class A CDL, Class B CDL, or a passenger (P), [school bus](#) (S), or [hazardous materials](#) (H) endorsement before February 7, 2022, are not required to comply with this subpart pertaining to that CDL or endorsement.

(c)

(1) Individuals who obtain a CLP before February 7, 2022, are not required to comply with this subpart if they obtain a CDL before the CLP or renewed CLP expires.

(2) Individuals who obtain a CLP on or after February 7, 2022, are required to comply with this subpart.

(3) Except for individuals seeking the H endorsement, individuals must complete the theory and BTW (range and public road) portions of [entry-level driver training](#) within one year of completing the first portion.

[[81 FR 88790](#), Dec. 8, 2016, as amended at [83 FR 48725](#), Sept. 27, 2018; [85 FR 6100](#), Feb. 4, 2020; [86 FR 57069](#), Oct. 14, 2021]

49 CFR § 380.605 - Definitions.

§ 380.605 Definitions.

The definitions in parts 383 and 384 of this subchapter apply to this subpart, except as [stated](#) below. As used in this subpart:

Behind-the-wheel (BTW) instructor means an individual who provides BTW training involving the actual operation of a CMV by an [entry-level driver](#) on a [range](#) or a public road and meets one of these qualifications:

(1) Holds a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided and has at least 2 years of experience driving a CMV requiring a CDL of the same or higher class and/or the same endorsement and meets all applicable [State](#) qualification requirements for CMV instructors; or

(2) Holds a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided and has at least 2 years of experience as a BTW CMV instructor and meets all applicable [State](#) qualification requirements for CMV instructors.

Exception applicable to paragraphs (1) and (2) of this definition: A [BTW instructor](#) who provides training solely on a [range](#) which is not a public road is not required to hold a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided, as long as the instructor previously held a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided, and complies with the other requirements set forth in paragraphs (1) or (2) of this definition.

(3) If an instructor's CDL has been cancelled, suspended, or revoked due to any of the disqualifying offenses identified in [§ 383.51](#) of this subchapter, the instructor is prohibited from engaging in BTW instruction for 2 years following the date his or her CDL is reinstated.

Behind-the-wheel (BTW) public road training means training provided by a [BTW instructor](#) when an [entry-level driver](#) has actual control of the power unit during a driving lesson conducted on a public road. [BTW public road training](#) does not include the time that an [entry-level driver](#) spends observing the operation of a CMV when he or she is not in control of the vehicle.

Behind-the-wheel (BTW) range training means training provided by a [BTW instructor](#) when an [entry-level driver](#) has actual control of the power unit during a driving lesson conducted on a [range](#). [BTW range training](#) does not include time an [entry-level driver](#) spends observing the operation of a CMV when he or she is not in control of the vehicle.

Entry-level driver means an individual who must complete the CDL skills test requirements under [§ 383.71](#) of this subchapter prior to receiving a CDL for the first time, upgrading to a Class A or Class B CDL, or obtaining a hazardous materials, passenger, or [school bus](#) endorsement for the first time. This definition does not include individuals for whom [States](#) waive the CDL skills test under § 383.77 or individuals seeking to remove a restriction in accordance with [§ 383.135\(b\)\(7\)](#) of this subchapter.

Entry-level driver training means training an [entry-level driver](#) receives from an entity listed on FMCSA's [Training Provider](#) Registry prior to:

- (1)** Taking the CDL skills test required to receive the Class A or Class B CDL for the first time;
- (2)** Taking the CDL skills test required to upgrade to a Class A or Class B CDL; or
- (3)** Taking the CDL skills test required to obtain a passenger and/or [school bus](#) endorsement for the first time or the CDL knowledge test required to obtain a [hazardous materials](#) endorsement for the first time.

Range means an area that must be free of obstructions, enables the [driver](#) to maneuver safely and free from interference from other vehicles and hazards, and has adequate sight lines.

Theory instruction means knowledge instruction on the operation of a CMV and related matters provided by a [theory instructor](#) through lectures, demonstrations,

audio-visual presentations, computer-based instruction, driving simulation devices, online training, or similar means.

Theory instructor means an individual who provides knowledge instruction on the operation of a CMV and meets one of these qualifications:

- (1)** Holds a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided and has at least 2 years of experience driving a CMV requiring a CDL of the same (or higher) class and/or the same endorsement and meets all applicable [State](#) qualification requirements for CMV instructors; or
- (2)** Holds a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided and has at least 2 years of experience as a BTW CMV instructor and meets all applicable [State](#) qualification requirements for CMV instructors.

Exceptions applicable to paragraphs (1) and (2) of this definition:

1. An instructor is not required to hold a CDL of the same (or higher) class and with all endorsements necessary to [operate](#) the CMV for which training is to be provided, if the instructor previously held a CDL of the same (or higher) class and complies with the other requirements set forth in paragraphs (1) or (2) of this definition.

2. [Training providers](#) offering online content exclusively are not required to meet [State](#) qualification requirements for theory instructors.

(3) If an instructor's CDL has been cancelled, suspended, or revoked due to any of the disqualifying offenses identified in [§ 383.51](#) of this subchapter, the instructor is prohibited from engaging in [theory instruction](#) for 2 years following the date his or her CDL is reinstated.

Training provider means an entity that is listed on the FMCSA [Training Provider](#) Registry, as required by [subpart G](#) of this part. [Training providers](#) include, but are not limited to, training schools, educational institutions, rural electric cooperatives, motor carriers, State/local governments, school districts, joint labor management programs, owner-operators, and individuals.

[\[83 FR 22874, May 17, 2018\]](#)

49 CFR § 380.609 - General entry-level driver training requirements.

§ 380.609 General entry-level driver training requirements.

- (a) An individual who applies, for the first time, for a Class A or Class B CDL, or who upgrades to a Class A or B CDL, must complete driver training from a provider listed on the Training Provider Registry (TPR), as set forth in subpart G.
- (b) An individual seeking to obtain a passenger (P), school bus (S), or hazardous materials (H) endorsement for the first time, must complete the training related to that endorsement from a training provider listed on the TPR, as set forth in subpart G.

49 CFR § 383.25 - Commercial learner's permit (CLP).

§ 383.25 Commercial learner's permit (CLP).

- (a) A CLP is considered a valid CDL for purposes of behind-the-wheel training on public roads or highways, if all of the following minimum conditions are met:
- (1) The CLP holder is at all times accompanied by the holder of a valid CDL who has the proper CDL group and endorsement(s) necessary to operate the CMV. The CDL holder must at all times be physically present in the front seat of the vehicle next to the CLP holder or, in the case of a passenger vehicle, directly behind or in the first row behind the driver and must have the CLP holder under observation and direct supervision.
- (2) The CLP holder holds a valid driver's license issued by the same jurisdiction that issued the CLP.
- (3) The CLP holder must have taken and passed a general knowledge test that meets the Federal standards contained in subparts F, G, and H of this part for the commercial motor vehicle that person operates or expects to operate.
- (4) The CLP holder must be 18 years of age or older.
- (5) Endorsements:
- (i) A CLP holder with a passenger (P) endorsement must have taken and passed the P endorsement knowledge test. A CLP holder with a P endorsement is prohibited from operating a CMV carrying passengers, other than Federal/State auditors and inspectors, test examiners, other trainees, and the CDL holder accompanying the CLP holder as prescribed by paragraph (a)(1) of this section. The P endorsement must be class specific.

(ii) A [CLP](#) holder with a [school bus](#) (S) [endorsement](#) must have taken and passed the S [endorsement](#) knowledge test. A [CLP](#) holder with an S [endorsement](#) is prohibited from operating a [school bus](#) with [passengers](#) other than Federal/State auditors and inspectors, test examiners, other trainees, and the [CDL](#) holder accompanying the [CLP](#) holder as prescribed by [paragraph \(a\)\(1\)](#) of this section.

(iii) A [CLP](#) holder with a [tank vehicle](#) (N) [endorsement](#) must have taken and passed the N [endorsement](#) knowledge test. A [CLP](#) holder with an N [endorsement](#) may only [operate](#) an empty [tank vehicle](#) and is prohibited from operating any [tank vehicle](#) that previously contained [hazardous materials](#) that has not been purged of any residue.

(iv) All other Federal [endorsements](#) are prohibited on a [CLP](#).

(6) The [CLP](#) holder does not [operate](#) a [commercial motor vehicle](#) transporting [hazardous materials](#) as defined in [§ 383.5](#).

(b) The [CLP](#) must be a separate document from the [CDL](#) or [non-CDL](#).

(c) The [CLP](#) must be valid for no more than one year from the initial date of issuance without requiring the [CLP](#) holder to retake the general and [endorsement](#) knowledge tests. [CLPs](#) issued for a period of less than one year may be renewed provided the [CLP](#) is not valid for more than one year from the date of initial issuance.

(d) The issuance of a [CLP](#) is a precondition to the initial issuance of a [CDL](#). The issuance of a [CLP](#) is also a precondition to the upgrade of a [CDL](#) if the upgrade requires a skills test.

(e) The [CLP](#) holder is not eligible to take the [CDL](#) skills test in the first 14 days after initial issuance of the [CLP](#).

[[76 FR 26879](#), May 9, 2011, as amended at [83 FR 65571](#), Dec. 21, 2018; [84 FR 51432](#), Sept. 30, 2019]

49 CFR § 383.71 - Driver application and certification procedures.

§ 383.71 Driver application and certification procedures.

(a) **Commercial Learner's Permit.** Prior to obtaining a [CLP](#), a [person](#) must meet the following requirements:

(1) The [person](#) must be 18 years of age or older and provide proof of his/her age.

(2) The person must have taken and passed a general knowledge test that meets the Federal standards contained in subparts F, G, and H of this part for the commercial motor vehicle group that person operates or expects to operate.

(3) The person must certify that he/she is not subject to any disqualification under § 383.51, or any license disqualification under State law, and that he/she does not have a driver's license from more than one State or jurisdiction.

(4) The person must provide to the State of issuance the information required to be included on the CLP as specified in subpart J of this part.

(5) The person must provide to the State proof of citizenship or lawful permanent residency as specified in Table 1 of this section or obtain a Non-domiciled CLP as specified in paragraph (f) of this section.

(6) The person must provide proof that the State to which application is made is his/her State of domicile, as the term is defined in § 383.5. Acceptable proof of domicile is a document with the person's name and residential address within the State, such as a government issued tax form.

(7) The person must provide the names of all States where the applicant has been licensed to drive any type of motor vehicle during the previous 10 years.

(8) A person seeking a passenger (P), school bus (S) or tank vehicle (N) endorsement must have taken and passed the endorsement knowledge test for the specific endorsement.

(9) The person must provide the State the certification contained in paragraph (b)(1) of this section.

(10) Beginning on February 7, 2022, a person must complete the training prescribed in subpart F of part 380 of this chapter before taking the skills test for a Class A or B CDL for the first time, or a skills test for a passenger (P) or school bus (S) endorsement for the first time, or the knowledge test for a hazardous materials (H) endorsement for the first time. The training must be administered by a provider listed on the Training Provider Registry.

(b) Initial Commercial Driver's License. Prior to obtaining a CDL, a person must meet all of the following requirements:

(1) Initial Commercial Driver's License applications submitted on or after January 30, 2012. Any person applying for a CDL on or after January 30, 2012, must meet the requirements set forth in paragraphs (b)(2) through (10), and (h) of

this section, and make one of the following applicable certifications in paragraph (b)(1)(i), (ii), (iii), or (iv) of this section:

(i) *Non-excepted interstate.* A person must certify that he/she operates or expects to operate in interstate commerce, is both subject to and meets the qualification requirements under 49 CFR part 391, and is required to obtain a medical examiner's certificate by § 391.45 of this chapter;

(ii) *Excepted interstate.* A person must certify that he/she operates or expects to operate in interstate commerce, but engages exclusively in transportation or operations excepted under 49 CFR 390.3(f), 391.2, 391.68, or 398.3 from all or parts of the qualification requirements of 49 CFR part 391, and is therefore not required to obtain a medical examiner's certificate by 49 CFR 391.45 of this chapter;

(iii) *Non-excepted intrastate.* A person must certify that he/she operates only in intrastate commerce and therefore is subject to State driver qualification requirements; or

(iv) *Excepted intrastate.* A person must certify that he/she operates in intrastate commerce, but engages exclusively in transportation or operations excepted from all or parts of the State driver qualification requirements.

(2) The person must pass a driving or skills test in accordance with the standards contained in subparts F, G, and H of this part taken in a motor vehicle that is representative of the type of motor vehicle the person operates or expects to operate; or provide evidence that he/she has successfully passed a driving test administered by an authorized third party.

(3) The person must certify that the motor vehicle in which the person takes the driving skills test is representative of the type of motor vehicle that person operates or expects to operate.

(4) The person must provide the State the information required to be included on the CDL as specified in subpart J of this part.

(5) The person must certify that he/she is not subject to any disqualification under § 383.51, or any license disqualification under State law, and that he/she does not have a driver's license from more than one State or jurisdiction.

(6) The person must surrender his/her non-CDL driver's licenses and CLP to the State.

(7) The [person](#) must provide the names of all [States](#) where he/she has previously been licensed to drive any type of [motor vehicle](#) during the previous 10 years.

(8) If the [person](#) is applying for a [hazardous materials endorsement](#), he/she must comply with Transportation Security Administration requirements codified in [49 CFR part 1572](#). A lawful permanent resident of the [United States](#) requesting a [hazardous materials endorsement](#) must additionally provide his/her U.S. Citizenship and Immigration Services (USCIS) [Alien](#) registration number.

(9) The [person](#) must provide proof of citizenship or lawful permanent residency as specified in Table 1 of this section, or be registered under [paragraph \(f\)](#) of this section.

TABLE 1 TO § 383.71—LIST OF ACCEPTABLE PROOFS OF CITIZENSHIP OR LAWFUL PERMANENT RESIDENCY

Status	Proof of status
U.S. Citizen	<ul style="list-style-type: none">• Valid, unexpired U.S. Passport.
	<ul style="list-style-type: none">• Certified copy of a birth certificate filed with a State Office of Vital Statistics or equivalent agency in the individual's State of birth, Puerto Rico, the Virgin Islands, Guam, American Samoa or the Commonwealth of the Northern Mariana Islands.
	<ul style="list-style-type: none">• Consular Report of Birth Abroad (CRBA) issued by the U.S. Department of State.
	<ul style="list-style-type: none">• Certificate of Naturalization issued by the U.S. Department of Homeland Security (DHS).
	<ul style="list-style-type: none">• Certificate of Citizenship issued by DHS.

Lawful
Permanent
Resident

- Valid, unexpired Permanent Resident Card, issued by USCIS or INS.

(10) The [person](#) must provide proof that the [State](#) to which application is made is his/her [State of domicile](#), as the term is defined in [§ 383.5](#). Acceptable proof of domicile is a document with the [person's](#) name and residential address within the [State](#), such as a government issued tax form.

(11) Beginning on February 7, 2022, a [person](#) must complete the training prescribed in subpart F of [part 380](#) of this chapter before taking the skills test for a Class A or B [CDL](#), a passenger (P) or [school bus](#) (S) [endorsement](#) for the first time or the knowledge test for a [hazardous materials](#) (H) [endorsement](#) for the first time. The training must be administered by a provider listed on the Training Provider Registry.

(c) *License transfer.* When applying to transfer a [CDL](#) from one [State of domicile](#) to a new [State of domicile](#), an applicant must apply for a [CDL](#) from the new [State of domicile](#) within no more than 30 days after establishing his/her new domicile. The applicant must:

(1) Provide to the new [State of domicile](#) the certifications contained in paragraphs (b)(1) and (5) of this section;

(2) Provide to the new [State of domicile](#) updated information as specified in [subpart J](#) of this part;

(3) If the applicant wishes to retain a [hazardous materials endorsement](#), he/she must comply with the requirements specified in [paragraph \(b\)\(8\)](#) of this section and [State](#) requirements as specified in [§ 383.73\(c\)\(4\)](#);

(4) Surrender the [CDL](#) from the old [State of domicile](#) to the new [State of domicile](#); and

(5) Provide the names of all [States](#) where the applicant has previously been licensed to drive any type of [motor vehicle](#) during the previous 10 years.

(6) Provide to the [State](#) proof of citizenship or lawful permanent residency as specified in Table 1 of this section, or be registered under [paragraph \(f\)](#) of this section.

(7) Provide proof to the [State](#) that this is his/her [State of domicile](#), as the term is defined in [§ 383.5](#). Acceptable proof of domicile is a document with the [person's](#)

name and residential address within the [State](#), such as a government issued tax form.

(d) *License renewal.* When applying for a renewal of a [CDL](#), all applicants must:

- (1)** Provide to the [State](#) certifications contained in paragraphs (b)(1) and (5) of this section;
- (2)** Provide to the [State](#) updated information as specified in [subpart J](#) of this part; and
- (3)** If a [person](#) wishes to retain a [hazardous materials endorsement](#), he/she must comply with the requirements specified in [paragraph \(b\)\(8\)](#) of this section and pass the test specified in § 383.121 for such [endorsement](#).
- (4)** Provide the names of all [States](#) where the applicant has previously been licensed to drive any type of [motor vehicle](#) during the previous 10 years.
- (5)** Provide to the [State](#) proof of citizenship or lawful permanent residency as specified in Table 1 of this section, or be registered under [paragraph \(f\)](#) of this section.
- (6)** Provide proof to the [State](#) that this is his/her [State of domicile](#), as the term is defined in § 383.5. Acceptable proof of domicile is a document, such as a government issued tax form, with the [person's](#) name and residential address within the [State](#).

(e) *License upgrades.* When applying for a [CDL](#) or an [endorsement](#) authorizing the operation of a [CMV](#) not covered by the current [CDL](#), all applicants must:

- (1)** Provide the certifications specified in [paragraph \(b\)](#) of this section;
- (2)** Pass all the knowledge tests in accordance with the standards contained in subparts F, G, and H of this part and all the skills tests specified in [paragraph \(b\)\(2\)](#) of this section for the new [vehicle group](#) and/or different endorsements;
- (3)** Comply with the requirements specified in [paragraph \(b\)\(8\)](#) of this section to obtain a [hazardous materials endorsement](#);
- (4)** Surrender the previous [CDL](#); and
- (5)** Beginning on February 7, 2022, a [person](#) must complete the training prescribed in subpart F of [part 380](#) of this chapter before taking the skills test for upgrading to a Class A or B for the first time; or adding a passenger or [school bus endorsement](#) to a [CDL](#) for the first time; or knowledge test for [hazardous](#)

materials endorsement for the first time. The training must be administered by a provider on the Training Provider Registry.

(f) Non-domiciled CLP and CDL.

(1) A person must obtain a Non-domiciled CLP or CDL:

(i) If the applicant is domiciled in a foreign jurisdiction, as defined in § 383.5, and the Administrator has not determined that the commercial motor vehicle operator testing and licensing standards of that jurisdiction meet the standards contained in subparts G and H of this part.

(ii) If the applicant is domiciled in a State that is prohibited from issuing CLPs and CDLs in accordance with § 384.405 of this subchapter. That person is eligible to obtain a Non-domiciled CLP or CDL from any State that elects to issue a Non-domiciled CLP or CDL and that complies with the testing and licensing standards contained in subparts F, G, and H of this part.

(2) An applicant for a Non-domiciled CLP and CDL must do both of the following:

(i) Complete the requirements to obtain a CLP contained in paragraph (a) of this section or a CDL contained in paragraph (b) of this section. *Exception:* An applicant domiciled in a foreign jurisdiction must provide an unexpired employment authorization document (EAD) issued by USCIS or an unexpired foreign passport accompanied by an approved I-94 form documenting the applicant's most recent admittance into the United States. No proof of domicile is required.

(ii) After receipt of the Non-domiciled CLP or CDL, and for as long as it is valid, notify the State which issued the Non-domiciled CLP or CDL of any adverse action taken by any jurisdiction or governmental agency, foreign or domestic, against his/her driving privileges. Such adverse actions include, but are not be limited to, license disqualification or disqualification from operating a commercial motor vehicle for the convictions described in § 383.51. Notifications must be made within the time periods specified in § 383.33.

(3) An applicant for a Non-domiciled CLP or CDL is not required to surrender his/her foreign license.

(g) Existing CLP and CDL Holder's Self-Certification. Every person who holds a CLP or CDL must provide to the State the certification contained in § 383.71(b)(1) of this subpart.

(h) Medical certification documentation required by the State. An applicant or CLP or CDL holder who certifies to non-excepted, interstate driving operations according to § 383.71(b)(1)(i) must comply with applicable requirements in paragraphs (h)(1) through (3) of this section:

(1) New CLP and CDL applicants.

(i) Before June 23, 2025, a new CLP or CDL applicant who certifies that he/she will operate CMVs in non-excepted, interstate commerce must provide the State with an original or copy (as required by the State) of a medical examiner's certificate prepared by a medical examiner, as defined in 49 CFR 390.5, and the State will post a medical qualification status of "certified" on the CDLIS driver record for the driver;

(ii) On or after June 23, 2025, a new CLP or CDL applicant who certifies that he/she will operate CMVs in non-excepted, interstate commerce must be medically examined and certified in accordance with 49 CFR 391.43 as medically qualified to operate a CMV by a medical examiner, as defined in 49 CFR 390.5. Upon receiving an electronic copy of the medical examiner's certificate from FMCSA, the State will post a medical qualifications status of "certified" on the CDLIS driver record for the driver;

(2) Existing CLP and CDL holders. By January 30, 2014, provide the State with an original or copy (as required by the State) of a current medical examiner's certificate prepared by a medical examiner, as defined in 49 CFR 390.5, and the State will post a certification status of "certified" on CDLIS driver record for the driver. If the non-excepted, interstate CLP or CDL holder fails to provide the State with a current medical examiner's certificate, the State will post a certification status of "not-certified" in the CDLIS driver record for the driver, and initiate a CLP or CDL downgrade following State procedures in accordance with § 383.73(o)(4); and

(3) Maintaining the medical certification status of "certified." **(i)** Before June 23, 2025, in order to maintain a medical certification status of "certified," a CLP or CDL holder who certifies that he/she will operate CMVs in non-excepted, interstate commerce must provide the State with an original or copy (as required by the State) of each subsequently issued medical examiner's certificate;

(ii) On or after June 23, 2025, in order to maintain a medical certification status of "certified," a CLP or CDL holder who certifies that he/she will operate CMVs in non-excepted, interstate commerce must continue to be

medically examined and certified in accordance with [49 CFR 391.43](#) as physically qualified to [operate](#) a [commercial motor vehicle](#) by a [medical examiner](#), as defined in [49 CFR 390.5](#). FMCSA will provide the [State](#) with an electronic copy of the [medical examiner's](#) certificate information for all subsequent medical examinations in which the [driver](#) has been deemed qualified.

(4) In the event of a conflict between the medical certification information provided electronically by FMCSA and a paper copy of the [medical examiner's](#) certificate, the medical certification information provided electronically by FMCSA shall control.

[[76 FR 26881](#), May 9, 2011, as amended at [77 FR 59825](#), Oct. 1, 2012; [78 FR 58480](#), Sept. 24, 2013; [80 FR 22810](#), Apr. 23, 2015; [80 FR 59072](#), Oct. 1, 2015; [81 FR 88803](#), Dec. 8, 2016; [83 FR 28780](#), June 21, 2018; [85 FR 6100](#), Feb. 4, 2020; [86 FR 32649](#), June 22, 2021; [86 FR 57070](#), Oct. 14, 2021]

49 CFR § 383.72 - Implied consent to alcohol testing.

§ 383.72 Implied consent to [alcohol](#) testing.

Any [person](#) who holds a [CLP](#) or [CDL](#) or is required to hold a [CLP](#) or [CDL](#) is considered to have consented to such testing as is required by any [State](#) or jurisdiction in the enforcement of item (4) of Table 1 to [§ 383.51](#) of this subpart and [§ 392.5\(a\)\(2\)](#) of this subchapter. Consent is implied by driving a [commercial motor vehicle](#).

[[80 FR 59072](#), Oct. 1, 2015]

49 CFR § 383.73 - State procedures.

§ 383.73 [State](#) procedures.

(a) *Commercial Learner's Permit.* Prior to issuing a [CLP](#) to a [person](#), a [State](#) must:

- (1)** Require the applicant to make the certifications, pass the tests, and provide the information as described in [§ 383.71\(a\)](#).
- (2)** Initiate and complete a check of the applicant's driving record as described in [paragraph \(b\)\(3\)](#) of this section.
- (3)** Make the [CLP](#) valid for no more than one year from the date of issuance without requiring the [CLP](#) holder to retake the general and [endorsement](#) knowledge tests. [CLPs](#) issued for a period of less than one year

may be renewed provided the CLP is not valid for more than one year from the date of initial issuance.

(4) Allow only a group-specific passenger (P) and school bus (S) endorsement and tank vehicle (N) endorsement on a CLP, provided the applicant has taken and passed the knowledge test for the specified endorsement. All other Federal endorsements are prohibited on a CLP; and

(5) Complete the Social Security Number verification required by paragraph (g) of this section.

(6) Require compliance with the standards for providing proof of citizenship or lawful permanent residency specified in § 383.71(a)(5) and proof of State of domicile specified in § 383.71(a)(6). *Exception:* A State is required to check the proof of citizenship or legal presence specified in this paragraph only for initial issuance, renewal or upgrade of a CLP or Non-domiciled CLP and for initial issuance, renewal, upgrade or transfer of a CDL or Non-domiciled CDL for the first time after July 8, 2011, provided a notation is made on the driver's record confirming that the proof of citizenship or legal presence check required by this paragraph has been made and noting the date it was done.

(7)

(i) Before June 23, 2025, for drivers who certified their type of driving according to § 383.71(b)(1)(i) (non-excepted interstate) and, if the CLP applicant submits a current medical examiner's certificate, date-stamp the medical examiner's certificate, and post all required information from the medical examiner's certificate to the CDLIS driver record in accordance with paragraph (o) of this section.

(ii) On or after June 23, 2025, for drivers who certified their type of driving according to § 383.71(b)(1)(i) (non-excepted interstate) and, if FMCSA provides current medical examiner's certificate information electronically, post all required information matching the medical examiner's certificate to the CDLIS driver record in accordance with paragraph (o) of this section.

(8) Beginning November 18, 2024, the State must request information from the Drug and Alcohol Clearinghouse, and if, in response to the request, the State receives notification that pursuant to § 382.501(a) of this chapter the applicant is prohibited from operating a commercial motor vehicle, the State must not issue, renew, or upgrade the CLP. If the applicant currently

holds a [CLP](#) issued by the [State](#), the [State](#) must also comply with the procedures set forth in paragraph (q) of this section.

(b) Initial CDL. Prior to issuing a [CDL](#) to a [person](#), a [State](#) must:

(1) Require the [driver applicant](#) to certify, pass tests, and provide information as described in [§ 383.71\(b\)](#);

(2) Check that the [vehicle](#) in which the applicant takes his/her test is representative of the [vehicle group](#) the applicant has certified that he/she [operates](#) or expects to [operate](#);

(3) Initiate and complete a check of the applicant's driving record to ensure that the [person](#) is not subject to any [disqualification](#) under [§ 383.51](#), or any license [disqualification](#) under [State](#) law, and does not have a [driver's license](#) from more than one [State](#) or jurisdiction. The record check must include, but is not limited to, the following:

(i) A check of the applicant's driving record as maintained by his/her current [State](#) of licensure, if any;

(ii) A check with the [CDLIS](#) to determine whether the [driver applicant](#) already has been issued a [CDL](#), whether the applicant's license has been disqualified, or if the applicant has been disqualified from operating a [commercial motor vehicle](#);

(iii) A check with the Problem [Driver Pointer System](#) (PDPS) to determine whether the [driver applicant](#) has:

(A) Been disqualified from operating a [motor vehicle](#) (other than a commercial motor vehicle);

(B) Had a license (other than CDL) disqualified for cause in the 3-year period ending on the date of application; or

(C) Been convicted of any offenses contained in [49 U.S.C. 30304\(a\)\(3\)](#);

(iv) A request for the applicant's complete driving record from all [States](#) where the applicant was previously licensed over the last 10 years to drive any type of [motor vehicle](#). *Exception:* A [State](#) is only required to make the request for the complete driving record specified in this paragraph for initial issuance of a [CLP](#), transfer of [CDL](#) from another [State](#) or for [drivers](#) renewing a [CDL](#) for the first time after September 30, 2002, provided a notation is made on the [driver's](#) record confirming that the [driver](#) record check required by this paragraph has been made and noting the date it was done;

(v) Beginning January 30, 2012, a check that the medical certification status of a [driver](#) that self-certified according to [§ 383.71\(b\)\(1\)\(i\)](#) of this chapter (non-excepted interstate) is “certified;”

(4) Require the [driver applicant](#) to surrender his/her [non-CDL driver's license](#) and [CLP](#);

(5)

(i) Before June 23, 2025, for [drivers](#) who certified their type of driving according to [§ 383.71\(b\)\(1\)\(i\)](#) (non-excepted interstate) and, if the [CDL](#) holder submits a current [medical examiner's](#) certificate, date-stamp the [medical examiner's](#) certificate and post all required information from the [medical examiner's](#) certificate to the [CDLIS driver record](#) in accordance with [paragraph \(o\)](#) of this section.

(ii) On or after June 23, 2025, for [drivers](#) who certified their type of driving according to [§ 383.71\(b\)\(1\)\(i\)](#) (non-excepted interstate) and, if FMCSA provides current [medical examiner's](#) certificate information electronically, post all required information matching the [medical examiner's](#) certificate to the [CDLIS driver record](#) in accordance with [paragraph \(o\)](#) of this section.

(6) Require compliance with the standards for providing proof of citizenship or lawful permanent residency specified in [§ 383.71\(b\)\(9\)](#) and proof of [State of domicile](#) specified in [§ 383.71\(b\)\(10\)](#). *Exception:* A [State](#) is required to check the proof of citizenship or legal presence specified in this paragraph only for initial issuance, renewal or upgrade of a [CLP](#) or Non-domiciled [CLP](#) and for initial issuance, renewal, upgrade or transfer of a [CDL](#) or Non-domiciled [CDL](#) for the first time after July 8, 2011, provided a notation is made on the [driver's](#) record confirming that the proof of citizenship or legal presence check required by this paragraph has been made and noting the date it was done;

(7) If not previously done, complete the Social Security Number verification required by [paragraph \(g\)](#) of this section;

(8) For [persons](#) applying for a [hazardous materials endorsement](#), require compliance with the standards for such [endorsement](#) specified in [§§ 383.71\(b\)\(8\)](#) and 383.141;

(9) Make the [CDL](#) valid for no more than 8 years from the date of issuance; and

(10) Beginning November 18, 2024, the [State](#) must request information from the Drug and [Alcohol](#) Clearinghouse. If, in response to that request, the [State](#) receives notification that pursuant to [§ 382.501\(a\)](#) of this chapter the

applicant is prohibited from operating a [commercial motor vehicle](#), the [State](#) must not issue the [CDL](#).

(11) Beginning on February 7, 2022, not conduct a skills test of an applicant for a Class A or Class B [CDL](#), or a passenger (P) or [school bus \(S\) endorsement](#) until the [State](#) verifies electronically that the applicant completed the training prescribed in subpart F of [part 380](#) of this subchapter.

(c) *License transfers.* Prior to issuing a [CDL](#) to a [person](#) who has a [CDL](#) from another [State](#), a [State](#) must:

(1) Require the [driver applicant](#) to make the certifications contained in [§ 383.71\(b\)\(1\) and \(5\)](#);

(2) Complete a check of the [driver applicant's](#) record as contained in [paragraph \(b\)\(3\)](#) of this section;

(3) Request and receive updates of information specified in [subpart J](#) of this part;

(4) If such applicant wishes to retain a [hazardous materials endorsement](#), require compliance with standards for such [endorsement](#) specified in [§§ 383.71\(b\)\(8\) and 383.141](#) and ensure that the [driver](#) has, within the 2 years preceding the transfer, either:

(i) Passed the test for such [endorsement](#) specified in [§ 383.121](#); or

(ii) Successfully completed a [hazardous materials](#) test or training that is given by a third [party](#) and that is deemed by the [State](#) to substantially cover the same knowledge base as that described in [§ 383.121](#);

(5) If not previously done, complete the Social Security Number verification required by [paragraph \(g\)](#) of this section;

(6) Require the applicant to surrender the [CDL](#) issued by the applicant's previous [State of domicile](#);

(7) Require compliance with the standards for providing proof of citizenship or lawful permanent residency specified in [§ 383.71\(b\)\(9\)](#) and proof of [State of domicile](#) specified in [§ 383.71\(b\)\(10\)](#). *Exception:* A [State](#) is required to check the proof of citizenship or legal presence specified in this paragraph only for initial issuance, renewal or upgrade of a [CLP](#) or Non-domiciled [CLP](#) and for initial issuance, renewal, upgrade or transfer of a [CDL](#) or Non-domiciled [CDL](#) for the first time after July 8, 2011, provided a notation is made on the [driver's](#) record confirming that the proof of citizenship or legal presence check required by this paragraph has been made and noting the date it was done;

(8) Beginning January 30, 2012, verify from the [CDLIS driver record](#) that the medical certification status of [driver](#) is “certified” for those who certified according to [§ 383.71\(b\)\(1\)\(i\)](#). *Exception:* A [driver](#) who certified according to [§ 383.71\(b\)\(1\)\(i\)](#) that he/she plans to [operate](#) in non-excepted [interstate commerce](#) may present a current [medical examiner's](#) certificate issued prior to January 30, 2012. The [medical examiner's](#) certificate provided by the [driver](#) must be posted to the [CDLIS driver record](#) in accordance with [paragraph \(o\)](#) of this section;

(9) Make the [CDL](#) valid for no more than 8 years from the date of issuance; and

(10) Beginning November 18, 2024, the [State](#) must request information from the Drug and [Alcohol](#) Clearinghouse. If, in response to that request, the [State](#) receives notification that pursuant to [§ 382.501\(a\)](#) of this chapter the applicant is prohibited from operating a [commercial motor vehicle](#), the [State](#) must not transfer the [CDL](#).

(d) *License Renewals.* Prior to renewing any [CDL](#) a [State](#) must:

(1) Require the [driver applicant](#) to make the certifications contained in [§ 383.71\(b\)](#);

(2) Complete a check of the [driver applicant's](#) record as contained in [paragraph \(b\)\(3\)](#) of this section;

(3) Request and receive updates of information specified in [subpart J](#) of this part;

(4) If such applicant wishes to retain a [hazardous materials endorsement](#), require the [driver](#) to pass the test specified in [§ 383.121](#) and comply with the standards specified in [§§ 383.71\(b\)\(8\)](#) and 383.141 for such [endorsement](#);

(5) If not previously done, complete the Social Security Number verification required by [paragraph \(g\)](#) of this section;

(6) Make the renewal of the [CDL](#) valid for no more than 8 years from the date of issuance;

(7) Require compliance with the standards for providing proof of citizenship or lawful permanent residency specified in [§ 383.71\(b\)\(9\)](#) and proof of [State of domicile](#) specified in [§ 383.71\(b\)\(10\)](#). *Exception:* A [State](#) is required to check the proof of citizenship or legal presence specified in this paragraph only for initial issuance, renewal or upgrade of a [CLP](#) or Non-domiciled [CLP](#) and for initial issuance, renewal, upgrade or transfer of a [CDL](#) or Non-domiciled [CDL](#) for the first time after July 8, 2011, provided a notation is made on the [driver's](#) record

confirming that the proof of citizenship or legal presence check required by this paragraph has been made and noting the date it was done;

(8) Beginning January 30, 2012, verify from the [CDLIS driver record](#) that the medical certification status is “certified” for [drivers](#) who self-certified according to [§ 383.71\(b\)\(1\)\(i\)](#). *Exception:* A [driver](#) who certified according to [§ 383.71\(b\)\(1\)\(i\)](#) may present a current [medical examiner's](#) certificate issued prior to January 30, 2012. The [medical examiner's](#) certificate provided by the [driver](#) must be posted to the [CDLIS driver record](#) in accordance with [paragraph \(o\)](#) of this section; and

(9) Beginning November 18, 2024, the [State](#) must request information from the Drug and [Alcohol](#) Clearinghouse. If, in response to that request, the [State](#) receives notification that pursuant to [§ 382.501\(a\)](#) of this chapter the applicant is prohibited from operating a [commercial motor vehicle](#), the [State](#) must not renew the [CDL](#) or [H endorsement](#) and must comply with the procedures set forth in [paragraph \(q\)](#) of this section.

(e) License upgrades. Prior to issuing an upgrade of a [CDL](#), a [State](#) must:

(1) Require such [driver applicant](#) to provide certifications, pass tests, and meet applicable [hazardous materials](#) standards specified in [§ 383.71\(e\)](#);

(2) Complete a check of the [driver applicant's](#) record as described in [paragraph \(b\)\(3\)](#) of this section;

(3) If not previously done, complete the Social Security Number verification required by [paragraph \(g\)](#) of this section;

(4) Require the [driver applicant](#) to surrender his/her previous [CDL](#);

(5) Require compliance with the standards for providing proof of citizenship or lawful permanent residency specified in [§ 383.71\(b\)\(9\)](#) and proof of [State of domicile](#) specified in [§ 383.71\(b\)\(10\)](#). *Exception:* A [State](#) is required to check the proof of citizenship or legal presence specified in this paragraph only for initial issuance, renewal or upgrade of a [CLP](#) or Non-domiciled [CLP](#) and for initial issuance, renewal, upgrade, or transfer of a [CDL](#) or Non-domiciled [CDL](#), for the first time after July 8, 2011, provided a notation is made on the [driver's](#) record confirming that the proof of citizenship or legal presence check required by this paragraph has been made and noting the date it was done;

(6) Beginning January 30, 2012, verify from the [CDLIS driver record](#) that the medical certification status is “certified” for [drivers](#) who self-certified according to [§ 383.71\(b\)\(1\)\(i\)](#). *Exception:* A [driver](#) who certified according to [§](#)

383.71(b)(1)(i) may present a current medical examiner's certificate issued prior to January 30, 2012. The medical examiner's certificate provided by the driver must be posted to the CDLIS driver record in accordance with paragraph (o) of this section;

(7) Make the CDL valid for no more than 8 years from the date of issuance; and

(8) Beginning November 18, 2024, the State must request information from the Drug and Alcohol Clearinghouse. If, in response to that request, the State receives notification that pursuant to § 382.501(a) of this chapter the applicant is prohibited from operating a commercial motor vehicle, the State must not issue an upgrade of the CDL and must comply with the procedures set forth in paragraph (q) of this section.

(9) Beginning on February 7, 2022, not conduct a skills test of an applicant for an upgrade to a Class A or Class B CDL, or a passenger (P), school bus (S) endorsement, or administer the knowledge test to an applicant for the hazardous materials (H) endorsement, unless the applicant has completed the training required by subpart F of part 380 of this subchapter.

(f) Non-domiciled CLP and CDL.

(1) A State may only issue a Non-domiciled CLP or CDL to a person who meets one of the circumstances described in § 383.71(f)(1).

(2) State procedures for the issuance of a non-domiciled CLP and CDL, for any modifications thereto, and for notifications to the CDLIS must at a minimum be identical to those pertaining to any other CLP or CDL, with the following exceptions:

(i) If the applicant is requesting a transfer of his/her Non-domiciled CDL, the State must obtain the Non-domiciled CDL currently held by the applicant and issued by another State;

(ii) The State must add the word "non-domiciled" to the face of the CLP or CDL, in accordance with § 383.153(c); and

(iii) The State must have established, prior to issuing any Non-domiciled CLP or CDL, the practical capability of disqualifying the holder of any Non-domiciled CLP or CDL, by withdrawing or disqualifying his/her Non-domiciled CLP or CDL as if the Non-domiciled CLP or CDL were a CLP or CDL issued to a person domiciled in the State.

(3) The State must require compliance with the standards for providing proof of legal presence specified in § 383.71(b)(9) and § 383.71(f)(2)(i).

(4) Beginning November 18, 2024, the [State](#) must request information from the Drug and [Alcohol](#) Clearinghouse. If, in response to that request, the [State](#) receives notification that pursuant to § 382.501(a) of this chapter the applicant is prohibited from operating a [commercial motor vehicle](#), the [State](#) must not issue, renew, transfer or upgrade a non-domiciled [CLP](#) or [CDL](#) and must comply with the procedures set forth in paragraph (q) of this section, as applicable.

(g) *Social Security Number verification.*

(1) Prior to issuing a [CLP](#) or a [CDL](#) to a [person](#) the [State](#) must verify the name, date of birth, and Social Security Number provided by the applicant with the information on file with the Social Security Administration. The [State](#) is prohibited from issuing, renewing, upgrading, or transferring a [CLP](#) or [CDL](#) if the Social Security Administration database does not match the applicant-provided data.

(2) **Exception.** A [State](#) is only required to perform the Social Security Number verification specified in this paragraph for initial issuance of a [CLP](#), transfer of [CDL](#) from another [State](#) or for [drivers](#) renewing a [CDL](#) for the first time after July 8, 2011 who have not previously had their Social Security Number information verified, provided a notation is made on the [driver's](#) record confirming that the verification required by this paragraph has been made and noting the date it was done.

(h) **License issuance.** After the [State](#) has completed the procedures described in paragraphs (a) through (g) of this section, as applicable, it may issue a [CLP](#) or [CDL](#) to the [driver applicant](#). The [State](#) must notify the [operator](#) of the [CDLIS](#) of such issuance, transfer, renewal, or upgrade within the 10-day period beginning on the date of license issuance.

(i) **Surrender procedure.** A [State](#) may return a surrendered license to a [driver](#) after physically marking it so that it cannot be mistaken for a valid document. Simply punching a hole in the expiration date of the document is insufficient. A document perforated with the word "VOID" is considered invalidated.

(j) **Penalties for false information.** If a [State](#) determines, in its check of an applicant's license status and record prior to issuing a [CLP](#) or [CDL](#), or at any time after the [CLP](#) or [CDL](#) is issued, that the applicant has falsified information contained in [subpart J](#) of this part, in any of the certifications required in § 383.71(b) or (g), or in any of the documents required to be submitted by § 383.71(h), the [State](#) must at a minimum disqualify the [person's](#) [CLP](#) or [CDL](#) or his/her pending application, or

disqualify the **person** from operating a **commercial motor vehicle** for a period of at least 60 consecutive days.

(k) Drivers convicted of fraud related to the testing and issuance of a CLP or CDL.

(1) The **State** must have policies in effect that result, at a minimum, in the **disqualification** of the **CLP** or **CDL** of a **person** who has been convicted of fraud related to the issuance of that **CLP** or **CDL**. The application of a **person** so convicted who seeks to renew, transfer, or upgrade the fraudulently obtained **CLP** or **CDL** must also, at a minimum, be disqualified. The **State** must record any such withdrawal in the **person's** driving record. The **person** may not reapply for a new **CDL** for at least 1 year.

(2) If a **State** receives credible information that a **CLP**- or **CDL**-holder is suspected, but has not been convicted, of fraud related to the issuance of his/her **CLP** or **CDL**, the **State** must require the **driver** to re-take the skills and/or knowledge tests. Within 30 days of receiving notification from the **State** that re-testing is necessary, the affected **CLP**- or **CDL**-holder must make an appointment or otherwise schedule to take the next available test. If the **CLP**- or **CDL**-holder fails to make an appointment within 30 days, the **State** must disqualify his/her **CLP** or **CDL**. If the **driver** fails either the knowledge or skills test or does not take the test, the **State** must disqualify his/her **CLP** or **CDL**. Once a **CLP**- or **CDL**-holder's **CLP** or **CDL** has been disqualified, he/she must reapply for a **CLP** or **CDL** under **State** procedures applicable to all **CLP** and **CDL** applicants.

(l) Reciprocity. A **State** must allow any **person** who has a valid **CLP**, **CDL**, Non-domiciled **CLP**, or Non-domiciled **CDL** and who is not disqualified from operating a **CMV**, to **operate** a **CMV** in the **State**.

(m) Document verification. The **State** must require at least two **persons** within the **driver** licensing agency to participate substantively in the processing and verification of the documents involved in the licensing process for initial issuance, renewal or upgrade of a **CLP** or Non-domiciled **CLP** and for initial issuance, renewal, upgrade or transfer of a **CDL** or Non-domiciled **CDL**. The documents being processed and verified must include, at a minimum, those provided by the applicant to prove legal presence and domicile, the information filled out on the application form, and knowledge and skills test scores. This section does not require two people to process or verify each document involved in the licensing process. *Exception:* For offices with only one staff member, at least some of the documents must be processed or verified by a supervisor before issuance or, when a supervisor is not available, copies must be made of some of the documents involved in the licensing process and a supervisor must verify them within one

business day of issuance of the CLP, Non-domiciled CLP, CDL or Non-domiciled CDL.

(n) Computer system controls. The State must establish computer system controls that will:

(1) Prevent the issuance of an initial, renewed or upgraded CLP or an initial, renewed, upgraded, or transferred CDL when the results of transactions indicate the applicant is unqualified. These controls, at a minimum, must be established for the following transactions: State, CDLIS, and PDPS driver record checks; and Social Security Number verification. Knowledge and skills test scores verification controls must be established for an initial, renewed, or upgraded CDL.

(2) Suspend the issuance process whenever State, CDLIS, and/or PDPS driver record checks return suspect results. The State must demonstrate that it has a system to detect and prevent fraud when a driver record check returns suspect results. At a minimum, the system must ensure that:

(i) The results are not connected to a violation of any State or local law relating to motor vehicle traffic control (other than parking, vehicle weight, or vehicle defect violations);

(ii) The name of the persons performing the record check and authorizing the issuance, and the justification for the authorization are documented by the State; and

(iii) The person performing the record check and the person authorizing the issuance are not the same.

(o) Medical recordkeeping—(1)(i) *Status of CLP or CDL holder.* Before June 23, 2025, for each operator of a commercial motor vehicle required to have a CLP or CDL, the current licensing State must:

(A) Post the driver's self-certification of type of driving under § 383.71(b)(1) to the CDLIS driver record;

(B) Post the information from the medical examiner's certificate within 10 calendar days to the CDLIS driver record, including:

(1) Medical examiner's name;

(2) Medical examiner's telephone number;

(3) Date of medical examiner's certificate issuance;

(4) Medical examiner's license number and the State that issued it;

- (5) Medical examiner's National Registry identification number;
- (6) The indicator of medical certification status, *i.e.*, "certified" or "not-certified";
- (7) Expiration date of the medical examiner's certificate;
- (8) Existence of any medical variance on the medical examiner's certificate, such as an exemption, SPE certification, or grandfather provisions;
- (9) Any restrictions (*e.g.*, corrective lenses, hearing aid, required to have possession of an exemption letter or SPE certificate while on-duty, etc.); and
- (10) Date the medical examiner's certificate information was posted to the CDLIS driver record; and

(C) Post the medical variance information within 10 calendar days to the CDLIS driver record, including:

- (1) Date of medical variance issuance; and
- (2) Expiration date of medical variance;

(D) Retain the original or a copy of the medical examiner's certificate of any driver required to provide documentation of physical qualification for 3 years beyond the date the certificate was issued.

(ii) Status of CLP or CDL holder. On or after June 23, 2025, for each operator of a commercial motor vehicle required to have a CLP or CDL, the current licensing State must:

(A) Post the driver's self-certification of type of driving under § 383.71(b)(1) to the CDLIS driver record;

(B) Post the information from the medical examiner's certificate received from FMCSA to the CDLIS driver record, including:

- (1) Medical examiner's name;
- (2) Medical examiner's telephone number;
- (3) Date of medical examiner's certificate issuance;
- (4) Medical examiner's license number and the State that issued it;
- (5) Medical examiner's National Registry identification number;

(6) The indicator of medical certification status, *i.e.*, “certified” or “not-certified”;

(7) Expiration date of the **medical examiner's** certificate;

(8) Existence of any **medical variance** on the **medical examiner's** certificate, such as an exemption, Skill Performance Evaluation (SPE) certification, or grandfather provisions;

(9) Any restrictions (*e.g.*, corrective lenses, hearing aid, required to have possession of an exemption letter or SPE certificate while on-duty, etc.); and

(10) Date the **medical examiner's** certificate information was posted to the **CDLIS driver record**;

(C) Post the **medical variance** information received from FMCSA within 1 business day to the **CDLIS driver record**, including:

(1) Date of **medical variance** issuance; and

(2) Expiration date of **medical variance**;

(D) Retain the electronic record of the **medical examiner's** certificate information for any **driver** required to have documentation of physical qualification for 3 years beyond the date the certificate was issued.

(2) Status update.

(i) Before June 23, 2025, the **State** must, within 10 calendar days of the **driver's medical examiner's** certificate or **medical variance** expiring, the **medical variance** being rescinded or the **medical examiner's** certificate being voided by FMCSA, update the medical certification status of that **driver** as “not certified.”

(ii) On or after June 23, 2025, the **State** must, within 10 calendar days of the **driver's medical examiner's** certificate or **medical variance** expiring, the **medical examiner's** certificate becoming invalid, the **medical variance** being rescinded, or the **medical examiner's** certificate being voided by FMCSA, update the medical certification status of that **driver** as “not certified.”

(3) Variance update.

(i) Before June 23, 2025, within 10 calendar days of receiving information from FMCSA regarding issuance or renewal of a **medical variance** for a **driver**,

the [State](#) must update the [CDLIS driver record](#) to include the [medical variance](#) information provided by FMCSA.

(ii) On or after June 23, 2025, within 1 business day of electronically receiving [medical variance](#) information from FMCSA regarding the issuance or renewal of a [medical variance](#) for a [driver](#), the [State](#) must update the [CDLIS driver record](#) to include the [medical variance](#) information provided by FMCSA.

(4) *Downgrade.*

(i) If a [driver's](#) medical certification or [medical variance](#) expires, or FMCSA notifies the [State](#) that a medical certification was invalidated or voided or a [medical variance](#) was removed or rescinded, the [State](#) must:

(A)(1) Before June 23, 2025, notify the [CLP](#) or [CDL](#) holder of his/her [CLP](#) or [CDL](#) “not-certified” medical certification status and that the [CDL](#) privileges will be removed from the [CLP](#) or [CDL](#) unless the [driver](#) submits a current [medical examiner's](#) certificate and/or [medical variance](#), or changes his/her self-certification to driving only in excepted or [intrastate commerce](#) (if permitted by the State).

(2) On or after June 23, 2025, notify the [CLP](#) or [CDL](#) holder of his/her [CLP](#) or [CDL](#) “not-certified” medical certification status and that the [CDL](#) privileges will be removed from the [CLP](#) or [CDL](#) unless the [driver](#) has been medically examined and certified in accordance with [49 CFR 391.43](#) as physically qualified to [operate](#) a [commercial motor vehicle](#) by a [medical examiner](#), as defined in [49 CFR 390.5](#), or the [driver](#) changes his/her self-certification to driving only in excepted or [intrastate commerce](#) (if permitted by the State).

(B) Initiate established [State](#) procedures for downgrading the [CLP](#) or [CDL](#). The [CLP](#) or [CDL downgrade](#) must be completed and recorded within 60 days of the [driver's](#) medical certification status becoming “not-certified” to [operate](#) a [CMV](#).

(ii)

(A) Before June 23, 2025, if a [driver](#) fails to provide the [State](#) with the certification contained in [§ 383.71\(b\)\(1\)](#), or a current [medical examiner's](#) certificate if the [driver](#) self-certifies according to [§ 383.71\(b\)\(1\)\(i\)](#) that he/she is operating in non-excepted [interstate commerce](#) as required by [§ 383.71\(h\)](#), the [State](#) must mark that [CDLIS driver record](#) as “not-certified” and initiate

a CLP or CDL downgrade following State procedures in accordance with paragraph (o)(4)(i)(B) of this section.

(B) On or after June 23, 2025, if a driver fails to provide the State with the certification contained in § 383.71(b)(1), or, if the driver self-certifies according to § 383.71(b)(1)(i) that he/she is operating in non-excepted interstate commerce as required by § 383.71(h) and the information required by paragraph (o)(2)(ii) of this section is not received and posted, the State must mark that CDLIS driver record as “not-certified” and initiate a CLP or CDL downgrade following State procedures in accordance with paragraph (o)(4)(i)(B) of this section.

(5) State contacts for medical variances. FMCSA Medical Programs is designated as the keeper of the list of State contacts for receiving medical variance information from FMCSA. Beginning January 30, 2012, States are responsible for ensuring their medical variance contact information is always up-to-date with FMCSA's Medical Programs.

(6) Conflicting medical certification information. In the event of a conflict between the medical certification information provided electronically by FMCSA and a paper copy of the medical examiner's certificate, the medical certification information provided electronically by FMCSA shall control.

(p) After February 7, 2022, the State must notify FMCSA that a training provider in the State does not meet applicable State requirements for CMV instruction.

(q) Drug and Alcohol Clearinghouse. Beginning November 18, 2024, the State must, upon receiving notification that pursuant to § 382.501(a) of this chapter the CLP or CDL holder is prohibited from operating a commercial motor vehicle, initiate established State procedures for downgrading the CLP or CDL. The downgrade must be completed and recorded on the CDLIS driver record within 60 days of the State's receipt of such notification. As used in this paragraph, the term “downgrade” means the State's removal of the CLP or CDL privilege from the driver's license, as set forth in paragraph (4) the definition of CDL downgrade in § 383.5.

(1) Termination of downgrade process when the driver is no longer prohibited. If, before the State completes and records the downgrade on the CDLIS driver record, the State receives notification that pursuant to § 382.503(a) of this chapter the CLP or CDL holder is no longer prohibited from operating a commercial motor vehicle, the State must, if permitted by State law, terminate

the downgrade process without removing the [CLP](#) or [CDL](#) privilege from the [driver's license](#).

(2) Reinstatement after FMCSA notification that the driver is no longer prohibited. If, after the [State](#) completes and records the downgrade on the [CDLIS driver record](#), FMCSA notifies the [State](#) that pursuant to § 382.503(a) of this chapter a [driver](#) is no longer prohibited from operating a [commercial motor vehicle](#), the [State](#) must make the [driver](#) eligible for reinstatement of the [CLP](#) or [CDL](#) privilege to the [driver's license](#), if permitted by [State](#) law.

(3) Reinstatement after Clearinghouse error correction. If, after the [State](#) completes and records the downgrade on the [CDLIS driver record](#), FMCSA notifies the [State](#) that the [driver](#) was erroneously identified as prohibited from operating a [commercial motor vehicle](#), the [State](#) shall:

- (i) Reinstatement the [CLP](#) or [CDL](#) privilege to the [driver's license](#) as expeditiously as possible; and
- (ii) Expunge from the [CDLIS driver record](#) and, if applicable, the [motor vehicle record](#), as defined in § 390.5T of this chapter, any reference related to the [driver's](#) erroneous prohibited status.

[76 FR 26883, May 9, 2011, as amended at 77 FR 24127, Apr. 20, 2012; 78 FR 17880, Mar. 25, 2013; 78 FR 58480, Sept. 24, 2013; 79 FR 59456, Oct. 2, 2014; 80 FR 22810, Apr. 23, 2015; 80 FR 35577, June 22, 2015; 80 FR 59072, Oct. 1, 2015; 81 FR 87730, Dec. 5, 2016; 81 FR 88803, Dec. 8, 2016; 82 FR 2916, Jan. 10, 2017; 83 FR 22876, May 17, 2018; 83 FR 28781, June 21, 2018; 83 FR 65571, Dec. 21, 2018; 84 FR 68057, Dec. 13, 2019; 85 FR 6100, Feb. 4, 2020; 86 FR 32649, June 22, 2021; 86 FR 55742, Oct. 7, 2021; 86 FR 57070, Oct. 14, 2021; 86 FR 59872, Oct. 29, 2021; 87 FR 59036, Sept. 29, 2022]

49 CFR § 383.75 - Third party testing.

§ 383.75 Third [party](#) testing.

(a) Third party tests. A [State](#) may authorize a [third party tester](#) to administer the skills tests as specified in subparts G and H of this part, if the following conditions are met:

- (1)** The skills tests given by the third [party](#) are the same as those that would otherwise be given by the [State](#) using the same version of the skills tests, the same written instructions for test applicants, and the same scoring sheets as those prescribed in subparts G and H of this part;

- (2) The [State](#) must conduct an on-site inspection of each [third party tester](#) at least once every 2 years, with a focus on examiners with irregular results such as unusually high or low pass/fail rates;
- (3) The [State](#) must issue the [third party tester](#) a [CDL](#) skills testing certificate upon the execution of a third [party](#) skills testing agreement.
- (4) The [State](#) must issue each third [party CDL](#) skills test examiner a skills testing certificate upon successful completion of a formal skills test examiner training course prescribed in [§ 384.228](#).
- (5) The [State](#) must, at least once every 2 years, do one of the following for each third [party](#) examiner:
- (i) Have [State employees](#) covertly take the tests administered by the third [party](#) as if the [State employee](#) were a test applicant;
 - (ii) Have [State employees](#) co-score along with the third [party](#) examiner during [CDL](#) skills tests to compare pass/fail results; or
 - (iii) Re-test a sample of [drivers](#) who were examined by the third [party](#) to compare pass/fail results;
- (6) The [State](#) must take prompt and appropriate remedial action against a [third party tester](#) that fails to comply with [State](#) or Federal standards for the [CDL](#) testing program, or with any [other terms](#) of the third [party](#) contract;
- (7) A skills test examiner who is also a skills instructor either as a part of a school, training program or otherwise is prohibited from administering a skills test to an applicant who received skills training by that skills test examiner; and
- (8) The [State](#) has an agreement with the third [party](#) containing, at a minimum, provisions that:
- (i) Allow the FMCSA, or its representative, and the [State](#) to conduct random examinations, inspections, and audits of its records, facilities, and operations without prior notice;
 - (ii) Require that all third [party](#) skills test examiners meet the qualification and training standards of [§ 384.228](#);
 - (iii) Allow the [State](#) to do any of the following:
 - (A) Have [State employees](#) covertly take the tests administered by the third [party](#) as if the [State employee](#) were a test applicant;

- (B) Have [State employees](#) co-score along with the third [party](#) examiner during [CDL](#) skills tests to compare pass/fail results; or
- (C) Have the [State](#) re-test a sample of [drivers](#) who were examined by the third [party](#);
- (iv) Reserve unto the [State](#) the right to take prompt and appropriate remedial action against a [third party tester](#) that fails to comply with [State](#) or Federal standards for the [CDL](#) testing program, or with any [other terms](#) of the third [party](#) contract;
- (v) Require the [third party tester](#) to initiate and maintain a bond in an amount determined by the [State](#) to be sufficient to pay for re-testing [drivers](#) in the event that the third [party](#) or one or more of its examiners is involved in fraudulent activities related to conducting skills testing of applicants for a [CDL](#). *Exception:* A [third party tester](#) that is a government entity is not required to maintain a bond.
- (vi) Require the [third party tester](#) to use only [CDL](#) skills examiners who have successfully completed a formal [CDL](#) skills test examiner training course as prescribed by the [State](#) and have been certified by the [State](#) as a [CDL](#) skills examiner qualified to administer [CDL](#) skills tests;
- (vii) Require the [third party tester](#) to use designated road test routes that have been approved by the [State](#);
- (viii) Require the [third party tester](#) to submit a schedule of [CDL](#) skills testing appointments to the [State](#) no later than two business days prior to each test; and
- (ix) Require the [third party tester](#) to maintain copies of the following records at its principal place of business:
 - (A) A copy of the [State](#) certificate authorizing the [third party tester](#) to administer a [CDL](#) skills testing program for the classes and types of [commercial motor vehicles](#) listed;
 - (B) A copy of each third [party](#) examiner's [State](#) certificate authorizing the third [party](#) examiner to administer [CDL](#) skills tests for the classes and types of [commercial motor vehicles](#) listed;
 - (C) A copy of the current third [party](#) agreement;
 - (D) A copy of each completed [CDL](#) skills test scoring sheet for the current year and the past two calendar years;
 - (E) A copy of the [third party tester](#)'s [State](#)-approved road test route(s); and

(F) A copy of each third [party](#) examiner's training record.

(b) Proof of testing by a third party. The [third party tester](#) must notify the [State driver](#) licensing agency through secure electronic means when a [driver applicant](#) passes skills tests administered by the [third party tester](#).

(c) Minimum number of tests conducted.

The [State](#) must revoke the skills testing certification of any examiner who does not conduct skills test examinations of at least 10 different applicants per calendar year. *Exception:* Examiners who do not meet the 10-test minimum must either take the refresher training specified in [§ 384.228](#) of this chapter or have a [State](#) examiner ride along to observe the third [party](#) examiner successfully administer at least one skills test.

[[76 FR 26886](#), May 9, 2011, as amended at [78 FR 17881](#), Mar. 25, 2013]

49 CFR § 383.77 - Substitute for knowledge and driving skills tests for drivers with military CMV experience.

§ 383.77 Substitute for knowledge and driving skills tests for [drivers](#) with military [CMV](#) experience.

(a) Knowledge test waivers for certain current or former military service members applying for a CLP or CDL—(1) *In general.* For current or former military service members, as defined in [§ 383.5](#), who meet the conditions and limitations set forth in [paragraph \(a\)\(2\)](#) of this section, a [State](#) may waive the requirements in §§ 383.23(a)(1) and 383.25(a)(3) that a [person](#) must pass a knowledge test for a [CLP](#) or [CDL](#).

(2) Conditions and limitations. A current or former [military service member](#) applying for waiver of the knowledge test described in [paragraph \(a\)\(1\)](#) of this section must certify and provide evidence that, during the 1-year period immediately prior to the application, he/she:

(i) Is or was regularly employed and designated as a:

(A) Motor Transport Operator—88M (Army);

(B) PATRIOT Launching Station Operator—14T (Army);

(C) Fueller—92F (Army);

(D) [Vehicle](#) Operator—2T1 (Air Force);

(E) Fueller—2F0 (Air Force);

(F) Pavement and Construction Equipment Operator—3E2 (Air Force);

(G) [Motor Vehicle](#) Operator—3531 (Marine Corps); or

(H) Equipment Operator—E.O. (Navy).

(ii) Is operating a [vehicle](#) representative of the [CMV](#) type the [driver applicant](#) expects to [operate](#) upon separation from the military, or [operated](#) such a [vehicle](#) type immediately preceding separation from the military;

(iii) Has not simultaneously held more than one civilian license (in addition to a military license);

(iv) Has not had any license suspended, revoked, or cancelled;

(v) Has not had any [convictions](#) for any type of [motor vehicle](#) for the disqualifying offenses contained in [§ 383.51\(b\)](#);

(vi) Has not had more than one [conviction](#) for any type of [motor vehicle](#) for serious traffic [violations](#) contained in [§ 383.51\(c\)](#); and

(vii) Has not had any [conviction](#) for a [violation](#) of military, [State](#), or local law relating to [motor vehicle](#) traffic control (other than a parking violation) arising in connection with any traffic [accident](#), and has no record of an [accident](#) in which he/she was at fault.

(b) Driving skills test waivers for certain current or former military service members applying for a CDL—

(1) *In general.* At the discretion of a [State](#), the driving skills test required by [§ 383.23\(a\)\(1\)](#), and as specified in [§ 383.113](#), may be waived for a [CMV driver](#) with military [CMV](#) experience who is currently licensed at the time of his/her application for a [CDL](#) and substituted with an applicant's driving record in combination with certain driving experience.

(2) Conditions and limitations. The [State](#) shall impose conditions and limitations to restrict the applicants from whom a [State](#) may accept alternative requirements for the driving skills test described in [§ 383.113](#). Such conditions must require at least the following:

(i) An applicant must provide evidence and certify that he/she:

(A) Is regularly employed or was regularly employed within the last year in a military position requiring operation of a [CMV](#);

(B) Was exempted from the [CDL](#) requirements in [§ 383.3\(c\)](#); and

(C) Was operating a [vehicle](#) representative of the [CMV](#) type the [driver applicant operates](#) or expects to [operate](#), for at least the 2 years immediately preceding separation from the military.

(ii) An applicant must certify that, during the 2-year period immediately prior to applying for a [CDL](#), he/she:

(A) Has not simultaneously held more than one civilian license (in addition to a military license);

(B) Has not had any license suspended, revoked, or cancelled;

(C) Has not had any [convictions](#) for any type of [motor vehicle](#) for the disqualifying offenses contained in [§ 383.51\(b\)](#);

(D) Has not had more than one [conviction](#) for any type of [motor vehicle](#) for serious traffic [violations](#) contained in [§ 383.51\(c\)](#); and

(E) Has not had any [conviction](#) for a [violation](#) of military, [State](#) or local law relating to [motor vehicle](#) traffic control (other than a parking violation) arising in connection with any traffic [crash](#), and has no record of a [crash](#) in which he/she was at fault.

(c) Endorsement waivers for certain current or former military service members applying for a CLP or a CDL—(1) *Passenger*. For current or former military service members, as defined in [§ 383.5](#), who meet the conditions and limitations set forth in [paragraph \(c\)\(4\)](#) of this section, a [State](#) may waive the requirements in § 383.25(a)(5)(i), § 383.93(a) and (c)(2) that an applicant must pass a driving skills test and a specialized knowledge test, described in § 383.117, for a passenger (P) [endorsement](#).

(2) Tank vehicle. For current or former military service members, as defined in [§ 383.5](#), who meet the conditions and limitations set forth in [paragraph \(c\)\(4\)](#) of this section, a [State](#) may waive the requirements in §§ 383.25(a)(5)(iii) and 383.93(a) and (c)(3) that an applicant must pass a specialized knowledge test, described in § 383.119, for a [tank vehicle](#) (N) [endorsement](#).

(3) Hazardous materials. For current or former military service members, as defined in [§ 383.5](#), who meet the conditions and limitations set forth in [paragraph \(c\)\(4\)](#) of this section, a [State](#) may waive the requirements in § 383.93(a)(1) and (c)(4) that an applicant must pass a specialized knowledge test, described in § 383.121, for a [hazardous materials](#) (H) [endorsement](#). [States](#) must continue to meet the requirements for a [hazardous materials endorsement](#) in subpart I of this part.

(4) Conditions and limitations. A current or former [military service member](#) applying for waiver of the driving skills test or the specialized knowledge test for a passenger carrier [endorsement](#), the knowledge test for the [tank vehicle endorsement](#), or the knowledge test for the [hazardous materials endorsement](#), must certify and provide evidence that, during the 1-year period immediately prior to the application, he/she:

(i) Is or was regularly employed in a military position requiring operation of a passenger [CMV](#), if the applicant is requesting a waiver of the knowledge and driving skills test for a passenger [endorsement](#); operation of a [tank vehicle](#), if the applicant is requesting a waiver of the knowledge test for a [tank vehicle endorsement](#); or transportation of [hazardous materials](#), if the applicant is requesting a waiver of the knowledge test for a [hazardous materials endorsement](#);

(ii) Has not simultaneously held more than one civilian license (in addition to a military license);

(iii) Has not had any license suspended, revoked, or cancelled;

(iv) Has not had any [convictions](#) for any type of [motor vehicle](#) for the disqualifying offenses contained in [§ 383.51\(b\)](#);

(v) Has not had more than one [conviction](#) for any type of [motor vehicle](#) for serious traffic [violations](#) contained in [§ 383.51\(c\)](#); and

(vi) Has not had any [conviction](#) for a [violation](#) of military, [State](#) or local law relating to [motor vehicle](#) traffic control (other than a parking violation) arising in connection with any traffic [crash](#), and has no record of a [crash](#) in which he/she was at fault.

[[83 FR 48975](#), Sept. 28, 2018]

49 CFR § 383.79 - Driving skills testing of out-of-State students; knowledge and driving skills testing of military personnel.

§ 383.79 Driving skills testing of out-of-State students; knowledge and driving skills testing of military personnel.

(a) CDL applicants trained out-of-State—(1) *State that administers the driving skills test.* A [State](#) may administer its driving skills test, in accordance with subparts F, G, and H of this part, to a [person](#) who has taken training in that [State](#) and is to be licensed in another [United States](#) jurisdiction (*i.e.*, his or her [State](#) of domicile). Such

test results must be transmitted electronically directly from the testing [State](#) to the licensing [State](#) in a direct, efficient and secure manner.

(2) *The State of domicile.* The [State of domicile](#) of a [CDL](#) applicant must accept the results of a driving skills test administered to the applicant by any other [State](#), in accordance with subparts F, G, and H of this part, in fulfillment of the applicant's testing requirements under [§ 383.71](#), and the [State's](#) test administration requirements under [§ 383.73](#).

(b) *Active duty military service members.* An active-duty [military service member](#) may apply for a [CLP](#) or a [CDL](#) in the [State](#) where the individual is stationed but not domiciled if the requirements of this section are met.

(1) *Role of State of duty station.*

(i) Upon prior agreement with the [State of domicile](#), a [State](#) where active-duty [military service members](#) are stationed, but not domiciled, may accept an application for a [CLP](#) or [CDL](#), including an application for waiver of the knowledge test or driving skills test prescribed in [§§ 383.23\(a\)\(1\)](#) and [383.25\(a\)\(3\)](#), from such a [military service member](#) who:

(A) Is regularly employed or was regularly employed within the last year in a military position requiring operation of a [CMV](#);

(B) Has a valid [driver's license](#) from his or her [State of domicile](#);

(C) Has a valid active-duty military identification card; and

(D) Has a current copy of either the service member's military leave and earnings statement, or his or her orders.

(ii) A [State](#) where active-duty [military service members](#) are stationed, but not domiciled, may:

(A) Administer the knowledge and driving skills tests to the [military service member](#), as appropriate, in accordance with subparts F, G, and H of this part, if the [State of domicile](#) requires those tests; or

(B) Waive the knowledge and driving skills tests in accordance with [§ 383.77](#), if the [State of domicile](#) has exercised the option to waive those tests; and

(C) Destroy the [military service member's](#) civilian [driver's license](#) on behalf of the [State of domicile](#), unless the latter requires the [driver's license](#) to be surrendered to its own [driver](#) licensing agency.

(iii) The [State](#) of duty station must transmit to the [State of domicile](#) by a direct, secure, and efficient electronic [system](#) the completed application, any supporting documents, and—if the [State of domicile](#) has not exercised its waiver option—the results of any knowledge and driving skills administered.

(2) *Role of State of domicile.* Upon completion of the applicant's application pursuant to [§ 383.71](#) and any testing administered by the [State](#) of duty station pursuant to [§§ 383.71](#) and 383.73, the [State of domicile](#) of the [military service member](#) applying for a [CLP](#) or [CDL](#) may:

(i) Accept the completed application, any supporting documents, and the results of the knowledge and driving skills tests administered by the [State](#) of duty station (unless waived at the discretion of the [State](#) of domicile); and

(ii) Issue the applicant a [CLP](#) or [CDL](#).

[[83 FR 48976](#), Sept. 28, 2018]

49 CFR § 383.110 – General requirement.

§ 383.110 General requirement.

All [drivers](#) of [CMVs](#) must have the knowledge and skills necessary to [operate](#) a [CMV](#) safely as contained in this subpart. The specific types of items that a [State](#) must include in the knowledge and skills tests that it administers to [CDL](#) applicants are included in this subpart.

[[76 FR 26888](#), May 9, 2011]

49 CFR § 383.111 - Required knowledge.

§ 383.111 Required knowledge.

(a) All [CMV operators](#) must have knowledge of the following 20 general areas:

(1) *Safe operations regulations.* [Driver](#)-related elements of the regulations contained in parts 391, 392, 393, 395, 396, and 397 of this subchapter, such as:

(i) [Motor vehicle](#) inspection, repair, and maintenance requirements;

(ii) Procedures for safe [vehicle](#) operations;

(iii) The effects of [fatigue](#), poor vision, hearing impairment, and general health upon safe [commercial motor vehicle](#) operation;

(iv) The types of [motor vehicles](#) and cargoes subject to the requirements contained in [part 397](#) of this subchapter; and

(v) The effects of [alcohol](#) and drug use upon safe [commercial motor vehicle](#) operations.

(2) Safe vehicle control systems. The purpose and function of the controls and instruments commonly found on CMVs.

(3) CMV safety control systems.

(i) Proper use of the [motor vehicle](#)'s safety system, including lights, horns, side and rear-view mirrors, proper mirror adjustments, fire extinguishers, symptoms of improper operation revealed through instruments, [motor vehicle](#) operation characteristics, and diagnosing malfunctions.

(ii) [CMV drivers](#) must have knowledge of the correct procedures needed to use these safety systems in an [emergency](#) situation, [e.g.](#), skids and loss of brakes.

(4) Basic control. The proper procedures for performing various basic maneuvers, including:

(i) Starting, warming up, and shutting down the engine;

(ii) Putting the [vehicle](#) in motion and stopping;

(iii) Backing in a straight line; and

(iv) Turning the [vehicle](#), [e.g.](#), basic rules, off tracking, right/left turns and right curves.

(5) Shifting. The basic shifting rules and terms for common transmissions, including:

(i) Key elements of shifting, [e.g.](#), controls, when to shift, and double clutching;

(ii) Shift patterns and procedures; and

(iii) Consequences of improper shifting.

(6) Backing. The procedures and rules for various backing maneuvers, including:

(i) Backing principles and rules; and

(ii) Basic backing maneuvers, [e.g.](#), straight-line backing, and backing on a curved path.

(7) Visual search. The importance of proper visual search, and proper visual search methods, including:

(i) Seeing ahead and to the sides;

- (ii) Use of mirrors; and
- (iii) Seeing to the rear.

(8) Communication. The principles and procedures for proper communications and the hazards of failure to signal properly, including:

- (i) Signaling intent, [e.g.](#), signaling when changing direction in traffic;
- (ii) Communicating presence, [e.g.](#), using horn or lights to signal presence; and
- (iii) Misuse of communications.

(9) Speed management. The importance of understanding the effects of speed, including:

- (i) Speed and stopping distance;
- (ii) Speed and surface conditions;
- (iii) Speed and the shape of the road;
- (iv) Speed and visibility; and
- (v) Speed and traffic flow.

(10) Space management. The procedures and techniques for controlling the space around the [vehicle](#), including:

- (i) The importance of space management;
- (ii) Space cushions, [e.g.](#), controlling space ahead/to the rear;
- (iii) Space to the sides; and
- (iv) Space for traffic gaps.

(11) Night operation. Preparations and procedures for night driving, including:

- (i) Night driving factors, [e.g.](#), [driver](#) factors (vision, glare, [fatigue](#), inexperience);
- (ii) Roadway factors (low illumination, variation in illumination, unfamiliarity with roads, other road users, especially [drivers](#) exhibiting erratic or improper driving); and
- (iii) [Vehicle](#) factors (headlights, auxiliary lights, turn signals, windshields and mirrors).

(12) Extreme driving conditions. The basic information on operating in extreme driving conditions and the hazards encountered in such conditions, including:

- (i) Bad weather, [e.g.](#), snow, ice, sleet, high wind;
- (ii) Hot weather; and
- (iii) Mountain driving.

(13) Hazard perceptions. The basic information on hazard perception and clues for recognition of hazards, including:

- (i) Road characteristics; and
- (ii) Road user activities.

(14) Emergency maneuvers. The basic information concerning when and how to make [emergency](#) maneuvers, including:

- (i) Evasive steering;
- (ii) [Emergency](#) stop;
- (iii) Off road recovery;
- (iv) Brake failure; and
- (v) Blowouts.

(15) Skid control and recovery. The information on the causes and major types of skids, as well as the procedures for recovering from skids.

(16) Relationship of cargo to vehicle control. The principles and procedures for the proper handling of cargo, including:

- (i) Consequences of improperly secured cargo, drivers' responsibilities, and Federal/State and local regulations;
- (ii) Principles of weight distribution; and
- (iii) Principles and methods of cargo securement.

(17) Vehicle inspections. The objectives and proper procedures for performing [vehicle](#) safety inspections, as follows:

- (i) The importance of periodic inspection and repair to [vehicle](#) safety.
- (ii) The effect of undiscovered malfunctions upon safety.
- (iii) What safety-related parts to look for when inspecting vehicles, [e.g.](#), fluid leaks, interference with visibility, bad tires, wheel and rim defects, braking system defects, steering system defects, suspension system defects, exhaust system defects, coupling system defects, and cargo problems.

(iv) Pre-trip/enroute/post-trip inspection procedures.

(v) Reporting findings.

(18) Hazardous materials. Knowledge of the following:

(i) What constitutes [hazardous material](#) requiring an [endorsement](#) to transport;

(ii) Classes of [hazardous materials](#);

(iii) Labeling/placarding requirements; and

(iv) Need for specialized training as a prerequisite to receiving the [endorsement](#) and transporting hazardous cargoes.

(19) Mountain driving. Practices that are important when driving upgrade and downgrade, including:

(i) Selecting a safe speed;

(ii) Selecting the right gear; and

(iii) Proper braking techniques.

(20) Fatigue and awareness. Practices that are important to staying alert and safe while driving, including:

(i) Being prepared to drive;

(ii) What to do when driving to avoid [fatigue](#);

(iii) What to do when sleepy while driving; and

(iv) What to do when becoming ill while driving.

(b) Air brakes. All [CMV drivers](#) operating [vehicles](#) equipped with air brakes must have knowledge of the following 7 areas:

(1) General air brake system nomenclature;

(2) The dangers of contaminated air supply (dirt, moisture, and oil);

(3) Implications of severed or disconnected air lines between the power unit and the trailer(s);

(4) Implications of low air pressure readings;

(5) Procedures to conduct safe and accurate pre-trip inspections, including knowledge about:

- (i) Automatic fail-safe devices;
- (ii) System monitoring devices; and
- (iii) Low pressure warning alarms.

(6) Procedures for conducting en route and post-trip inspections of air-actuated brake systems, including:

- (i) Ability to detect defects that may cause the system to fail;
- (ii) Tests that indicate the amount of air loss from the braking system within a specified period, with and without the engine running; and
- (iii) Tests that indicate the pressure levels at which the low air pressure warning devices and the tractor protection valve should activate.

(7) General operating practices and procedures, including:

- (i) Proper braking techniques;
- (ii) Antilock brakes;
- (iii) [Emergency](#) stops; and
- (iv) Parking brake.

(c) *Combination vehicles.* All [CMV drivers](#) operating combination [vehicles](#) must have knowledge of the following 3 areas:

- (1)** Coupling and uncoupling—The procedures for proper coupling and uncoupling a tractor to a semi-trailer;
- (2)** [Vehicle](#) inspection—The objectives and proper procedures that are unique for performing [vehicle](#) safety inspections on combination vehicles; and
- (3)** General operating practices and procedures, including:
 - (i) Safely operating combination vehicles; and
 - (ii) Air brakes.

[[76 FR 26888](#), May 9, 2011]

49 CFR § 383.113 - Required skills.

§ 383.113 Required skills.

(a) *Pre-trip vehicle inspection skills.* Applicants for a [CDL](#) must possess the following basic pre-trip [vehicle](#) inspection skills for the [vehicle](#) class that the [driver operates](#) or expects to operate:

(1) *All test vehicles.* Applicants must be able to identify each safety-related part on the [vehicle](#) and explain what needs to be inspected to ensure a safe operating condition of each part, including:

(i) Engine compartment;

(ii) Cab/engine start;

(iii) Steering;

(iv) Suspension;

(v) Brakes;

(vi) Wheels;

(vii) Side of [vehicle](#);

(viii) Rear of [vehicle](#); and

(ix) Special features of tractor [trailer](#), [school bus](#), or coach/transit [bus](#), if this type of [vehicle](#) is being used for the test.

(2) *Air brake equipped test vehicles.* Applicants must demonstrate the following skills with respect to inspection and operation of air brakes:

(i) Locate and verbally identify air brake operating controls and monitoring devices;

(ii) Determine the [motor vehicle](#)'s brake system condition for proper adjustments and that air system connections between [motor vehicles](#) have been properly made and secured;

(iii) Inspect the low pressure warning device(s) to ensure that they will activate in [emergency](#) situations;

(iv) With the engine running, make sure that the system maintains an adequate supply of compressed air;

(v) Determine that required minimum air pressure build up time is within acceptable limits and that required alarms and [emergency](#) devices automatically deactivate at the proper pressure level; and

(vi) Operationally check the brake system for proper performance.

(b) Basic vehicle control skills. All applicants for a [CDL](#) must possess and demonstrate the following basic [motor vehicle](#) control skills for the [vehicle](#) class that the [driver operates](#) or expects to operate:

(1) Ability to start, warm up, and shut down the engine;

(2) Ability to put the [motor vehicle](#) in motion and accelerate smoothly, forward and backward;

(3) Ability to bring the [motor vehicle](#) to a smooth stop;

(4) Ability to back the [motor vehicle](#) in a straight line, and check path and clearance while backing;

(5) Ability to position the [motor vehicle](#) to negotiate safely and then make left and right turns;

(6) Ability to shift as required and select appropriate gear for speed and [highway](#) conditions; and

(7) Ability to back along a curved path.

(c) Safe on-road driving skills. All applicants for a [CDL](#) must possess and demonstrate the following safe on-road driving skills for their [vehicle](#) class:

(1) Ability to use proper visual search methods;

(2) Ability to signal appropriately when changing direction in traffic;

(3) Ability to adjust speed to the configuration and condition of the roadway, weather and visibility conditions, traffic conditions, and [motor vehicle](#), cargo and [driver](#) conditions;

(4) Ability to choose a safe gap for changing lanes, passing other vehicles, as well as for crossing or entering traffic;

(5) Ability to position the [motor vehicle](#) correctly before and during a turn to prevent other [vehicles](#) from passing on the wrong side, as well as to prevent problems caused by off-tracking;

(6) Ability to maintain a safe following distance depending on the condition of the road, visibility, and [vehicle](#) weight;

(7) Ability to adjust operation of the [motor vehicle](#) to prevailing weather conditions including speed selection, braking, direction changes, and following distance to maintain control; and

(8) Ability to observe the road and the behavior of other motor vehicles, particularly before changing speed and direction.

(d) *Test area.* Skills tests shall be conducted in on-street conditions or under a combination of on-street and off-street conditions.

(e) *Simulation technology.* A [State](#) may utilize simulators to perform skills testing, but under no circumstances as a substitute for the required testing in on-street conditions.

[[76 FR 26889](#), May 9, 2011]

49 CFR § 383.115 - Requirements for double/triple trailers endorsement.

§ 383.115 Requirements for double/triple [trailers endorsement](#).

In order to obtain a double/triple [trailers endorsement](#) each applicant must have knowledge covering:

(a) Procedures for assembly and hookup of the units;

(b) Proper placement of heaviest [trailer](#);

(c) Handling and stability characteristics including off-tracking, response to steering, sensory feedback, braking, oscillatory sway, rollover in steady turns, and yaw stability in steady turns;

(d) Potential problems in traffic operations, including problems the [motor vehicle](#) creates for other motorists due to slower speeds on steep grades, longer passing times, possibility for blocking entry of other [motor vehicles](#) on freeways, splash and spray impacts, aerodynamic buffeting, view blockages, and lateral placement; and

(e) Operating practices and procedures not otherwise specified.

[[76 FR 26890](#), May 9, 2011]

49 CFR § 383.117 - Requirements for passenger endorsement.

§ 383.117 Requirements for passenger [endorsement](#).

An applicant for the passenger [endorsement](#) must satisfy both of the following additional knowledge and skills test requirements.

(a) Knowledge test. All applicants for the passenger [endorsement](#) must have knowledge covering the following topics:

- (1) Proper procedures for loading/unloading passengers;
- (2) Proper use of [emergency](#) exits, including push-out windows;
- (3) Proper responses to such [emergency](#) situations as fires and unruly passengers;
- (4) Proper procedures at railroad-highway grade crossings and drawbridges;
- (5) Proper braking procedures; and
- (6) Operating practices and procedures not otherwise specified.

(b) Skills test. To obtain a passenger [endorsement](#) applicable to a specific [vehicle](#) class, an applicant must take his/her skills test in a passenger [vehicle](#) satisfying the requirements of that [vehicle group](#) as defined in [§ 383.91](#).

[[76 FR 26890](#), May 9, 2011]

49 CFR § 383.119 - Requirements for tank vehicle endorsement.

§ 383.119 Requirements for [tank vehicle endorsement](#).

In order to obtain a [tank vehicle endorsement](#), each applicant must have knowledge covering the following:

- (a) Causes, prevention, and effects of cargo surge on [motor vehicle](#) handling;
- (b) Proper braking procedures for the [motor vehicle](#) when it is empty, full, and partially full;
- (c) Differences in handling of baffled/compartmented tank interiors versus non-baffled motor vehicles;
- (d) Differences in [tank vehicle](#) type and construction;
- (e) Differences in cargo surge for [liquids](#) of varying product densities;
- (f) Effects of road grade and curvature on [motor vehicle](#) handling with filled, half-filled, and empty tanks;
- (g) Proper use of [emergency](#) systems;
- (h) For [drivers](#) of DOT specification tank vehicles, retest and marking requirements; and

(i) Operating practices and procedures not otherwise specified.

[76 FR 26890, May 9, 2011]

49 CFR § 383.121 - Requirements for hazardous materials endorsement.

§ 383.121 Requirements for hazardous materials endorsement.

In order to obtain a hazardous materials endorsement, each applicant must have such knowledge as is required of a driver of a hazardous materials laden vehicle, from information contained in 49 CFR parts 171, 172, 173, 177, 178, and 397, on the following:

(a) Hazardous materials regulations including:

- (1) Hazardous materials table;
- (2) Shipping paper requirements;
- (3) Marking;
- (4) Labeling;
- (5) Placarding requirements;
- (6) Hazardous materials packaging;
- (7) Hazardous materials definitions and preparation;
- (8) Other regulated material (e.g., ORM-D);
- (9) Reporting hazardous materials accidents; and
- (10) Tunnels and railroad crossings.

(b) Hazardous materials handling including:

- (1) Forbidden materials and packages;
- (2) Loading and unloading materials;
- (3) Cargo segregation;
- (4) Passenger carrying buses and hazardous materials;
- (5) Attendance of motor vehicles;
- (6) Parking;
- (7) Routes;
- (8) Cargo tanks; and

(9) "Safe havens."

(c) Operation of [emergency](#) equipment including:

- (1) Use of equipment to protect the public;
- (2) Special precautions for equipment to be used in fires;
- (3) Special precautions for use of [emergency](#) equipment when loading or unloading a [hazardous materials](#) laden [motor vehicle](#); and
- (4) Use of [emergency](#) equipment for tank vehicles.

(d) [Emergency](#) response procedures including:

- (1) Special care and precautions for different types of accidents;
- (2) Special precautions for driving near a fire and carrying [hazardous materials](#), and smoking and carrying [hazardous materials](#);
- (3) [Emergency](#) procedures; and
- (4) Existence of special requirements for transporting Class 1.1 and 1.2 explosives.

(e) Operating practices and procedures not otherwise specified.

[[76 FR 26890](#), May 9, 2011]

49 CFR § 383.123 - Requirements for a school bus endorsement.

§ 383.123 Requirements for a [school bus endorsement](#).

(a) An applicant for the [school bus endorsement](#) must satisfy the following three requirements:

(1) ***Qualify for passenger vehicle endorsement.*** Pass the knowledge and skills test for obtaining a passenger [vehicle endorsement](#).

(2) ***Knowledge test.*** Must have knowledge covering the following topics:

(i) Loading and unloading children, including the safe operation of stop signal devices, external mirror systems, flashing lights, and other warning and passenger safety devices required for [school buses](#) by [State](#) or Federal law or regulation.

(ii) [Emergency](#) exits and procedures for safely evacuating passengers in an [emergency](#).

(iii) [State](#) and Federal laws and regulations related to safely traversing railroad-highway grade crossings; and

(iv) Operating practices and procedures not otherwise specified.

(3) Skills test. Must take a driving skills test in a [school bus](#) of the same [vehicle group](#) (see [§ 383.91\(a\)](#)) as the [school bus](#) applicant will drive.

(b) Exception. Knowledge and skills tests administered before September 30, 2002 and approved by FMCSA as meeting the requirements of this section, meet the requirements of paragraphs (a)(2) and (3) of this section

[[76 FR 26891](#), May 9, 2011]



OHIO SCHOOL BUS STANDARDS AND INSPECTION MANUAL

2022



OHIO STATE HIGHWAY PATROL LICENSING AND COMMERCIAL STANDARDS

Revision Date: October 2022



Table of Contents

..... 1

FOREWORD 5

ADMINISTRATIVE PROCEDURES 6

 PROCEDURE FOR OBTAINING IDENTIFICATION NUMBERS 6

 OBTAINING REGISTRATION AND IDENTIFICATION NUMBER 6

 CANCELLATION OF IDENTIFICATION NUMBER (4511.762 ORC) 7

 PREPARING the SCHOOL BUS for SALE/TRADE (4511.762 ORC) 7

 DEFINITION OF A SCHOOL BUS 7

 SCHOOL BUS TYPES 8

 CHANGES IN SCHOOL BUS DESIGN OR EQUIPMENT 8

 ANNUAL INSPECTION SCHEDULE AND BUS PREPARATION 8

 INSPECTION SYSTEM 9

 DECAL VALIDATION & PLACEMENT 9

 OUT OF SERVICE NOTIFICATION 9

 CRASH INSPECTIONS 10

 OTHER USES OF SCHOOL BUSES 10

INSPECTION & OUT-OF-SERVICE CRITERIA 11

 GENERAL CARE AND MAINTENANCE 11

 4501-5-02 SCHOOL BUS CONSTRUCTION STANDARDS 13

 (A) Access steps. (except "Type A" buses) 13

 (B) Air compressor for accessories 14

 (C) Aisle. 14

 (D) Axles and suspensions. 15

 (E) Battery. 17

 (F) Body construction. 19

 (G) Brakes 22

 (H) Bumpers 28

 (I) Color. 30

 (J) Cooling system. 31

 (K) Defroster. 32

 (L) Drive shaft and differential. 33

 (M) Driver's seat. 34

 (N) Electrical system. 36

 (O) Emergency equipment. 37

 (P) Emergency exits. 39

(Q) Engine speed governor.....	45
(R) Exhaust system.	45
(S) For after treatment systems that require diesel exhaust fluid (DEF).	47
(T) Fenders.....	48
(U) Floor covering.	49
(V) Frame.	50
(W) Fuel fill opening.....	52
(X) Fuel System.....	53
(Y) Glass.....	56
(Z) Heaters.	58
(AA) Hoods.....	59
(BB) Horns.....	60
(CC) Electronic stability control	62
(DD) Instruments and instrument panel.	63
(EE) Insulation.	66
(FF) Interior.	67
(GG) Inside body height	68
(HH) Lamps, signals and backing warning device.....	69
(JJ) Length of a school bus.....	76
(KK) Markings	77
(LL) Mirrors.....	80
(MM) Mounting of body on chassis.	82
(NN) Mud flaps	83
(OO) Noise suppression switch.....	84
(PP) Openings	85
(QQ) Paint standard.....	86
(RR) Passenger seats.	87
(SS) Engine power.	89
(TT) School safety zone decal	92
(UU) Service door.....	93
(VV) Service door steps.....	95
(WW) Steering system.....	97
(XX) Stop signal arm.....	98
(YY) Sun visor.	100
(ZZ) Tires, rims and wheels.	100
(AAA) Tow hooks.	103

(BBB) Transmission.....	104
(CCC) Vehicle identification plates.....	104
(DDD) Wheel-housings.	105
(EEE) Width.....	106
(FFF) Windows.	107
(GGG) Windshield washers.....	108
(HHH) Windshield wipers.....	109
(III) Wiring.	110
(JJJ) Lift equipped buses.....	111
4501-5-03 SCHOOL BUSES USED TO TRANSPORT PUPILS WITH SPECIAL NEEDS.	113
(A) General requirements.....	113
(B) Aisle width.	114
(C) Attachment points.	114
(D) Wheelchair securement.....	115
(E) Wheelchair tie down systems.....	115
(F) Seat spacing.	116
(G) Special service entrance.	116
(H) Special service entrance doors.	117
(I) Lift area lighting.....	118
(J) Weight distribution.....	119
(L) Alternator.	119
(K) Alternator and power supply.....	119
(M) Power lift.....	120
INSPECTION SEQUENCE	122
Inspection methodology:	122
Exterior Inspection.....	122
Engine Compartment (Type AI, Type A-II, Type B and Type C buses)	123
Undercarriage/Brake Inspection.....	124
Driver compartment inspection.....	125
Passenger Area	125

FOREWORD

This Ohio School Bus Inspection and Out-Of-Service Criteria is developed to serve as a guide for those involved in pupil transportation, mechanics, inspectors, and other persons responsible for ensuring the safe transportation of Ohio's school children and persons attending programs offered by community boards of mental health and county boards of developmental disabilities.

Every effort has been made to update given inspection procedures in accordance with the development of new technologies.

Inspection personnel should refer to the applicable Ohio School Bus Construction Standards, individual manufacturer's specifications, or appropriate service manuals for specific component information.

In accordance with the Ohio revised code section 4511.76, the school or company administrator is responsible for school buses, which are to be maintained in accordance with the following criteria:

*The following information may be found at www.statepatrol.ohio.gov by clicking on Publications:

The current Ohio School Bus Inspection Criteria, the Ohio School Bus Construction Standards

** Buses requiring a new bus inspection must meet the Ohio School Bus Construction Standards that apply to the manufacture date of the bus.

** All repairs must meet or exceed manufacturer specifications.

(Added 02/22/2021)

- *School Bus and stop signal arm illumination*

SECTION A

ADMINISTRATIVE PROCEDURES

PROCEDURE FOR OBTAINING IDENTIFICATION NUMBERS

All buses must first pass inspection by the State Highway Patrol before the school bus is used for pupil transportation.

- *Inspections will not be conducted at dealerships.*
- *Inspectors shall not inspect a bus until titled in the name of the private pupil Transportation Company or school.*
- *In-transit/dealer plates or temporary tags shall not be used to transport students.*

School Bus Owners - When a school bus is newly acquired and ready to be inspected, contact your local Inspector for an inspection date. Assure the title is in the owner's name. It is the responsibility of the owner to assure their bus meets all the Ohio School Bus Construction Standards. The title and school bus will be presented to the inspector during the inspection. When the bus successfully passes the inspection and with current inspection decals affixed to the bus, the bus may be operated for 30 days. During the 30-day period, the bus may be operated without an ID number. A copy of the school bus inspection (HP-32) shall be carried on the bus until the ID number is issued.

OBTAINING REGISTRATION AND IDENTIFICATION NUMBER

School Bus Registrations and Identification Number

The Ohio Bureau of Motor Vehicles issues school bus registrations. After a bus successfully passes a new inspection, the original HP-32C (School Bus Addendum) form shall be forwarded to the Ohio Bureau of Motor Vehicles (BMV). The BMV will assign an identification number along with the registration. This is then returned to the owner of the bus and the assigned identification number will be affixed to the bus in compliance with the applicable School Bus Construction Standard for the appropriate year of the bus. The owner of the bus will receive a copy of the HP-32C form with the assigned identification number, handwritten, in the space provided along with the paper registration.

The Ohio State Highway Patrol form HP32-C shall be forwarded to the following address:

OHIO BUREAU OF MOTOR

Vehicle Information Services/Special Plates

P O BOX 16521 COLUMBUS, OHIO 43216

Phone: (614) 752-7518

Fax: (614) 995-4739

Please allow 10 business days excluding mail time for processing.

CANCELLATION OF IDENTIFICATION NUMBER (4511.762 ORC)

- When a school bus is sold or removed from service, the following procedure is to be followed:
- Complete the Request for Cancellation of School Bus Identification Numbers form (BMV 4175) and mail to:
Ohio Bureau of Motor Vehicles
Vehicle Information Services/Special Plates Unit
P.O. Box 16521, Columbus Ohio 43216-6521
- The BMV 4175 May be obtained at the Ohio Bureau of Motor Vehicles website.

PREPARING the SCHOOL BUS for SALE/TRADE (4511.762 ORC)

- Remove the assigned identification numbers from front and rear of bus.
- Remove the owners name from both sides of bus.
- Remove inspection decals from both sides of bus.
- Remove the 8-way lights and stop arm if the bus will no longer be used as a school bus.

DEFINITION OF A SCHOOL BUS

Section 4511.01 (F) of the Ohio Revised Code

(F) "School bus" means every bus designed for carrying more than nine passengers that is owned by a public, private, or governmental agency or institution of learning and operated for the transportation of children to or from a school session or a school function, or owned by a private person and operated for compensation for the transportation of children to or from a school session or a school function, provided "school bus" does not include a bus operated by a municipally owned transportation system, a mass transit company operating exclusively within the territorial limits of a municipal corporation, or within such limits and the territorial limits of municipal corporations immediately contiguous to such municipal corporation, nor a common passenger carrier certified by the public utilities commission unless such bus is devoted exclusively to the transportation of children to and from a school session or a school function, and "school bus" does not include a van or bus used by a licensed child day-care center or type A family day-care home to transport children from the child day-care center or type A family day-care home to a school if the van or bus does not have more than fifteen children in the van or bus at any time.

SCHOOL BUS TYPES

Type A School Bus is a conversion bus constructed utilizing a cutaway front- section vehicle with a left side driver's door. This definition shall include two classifications: Type A-I, with a Gross Vehicle Weight Rating (GVWR) of 14,500 pounds or less; and Type A-II, with a GVWR of 14,501 pounds or more.

Type B School Bus is constructed utilizing a stripped chassis, with GVWR of more than 10,000 pounds, designed for carrying more than ten persons. Part of the engine is beneath and/or behind the windshield and beside the driver's seat. The entrance door is behind the front wheels.

Type C School Bus is a body installed upon a flat-back cowl chassis with a GVWR of more than 10,000 pounds, designed for carrying more than ten persons. The entire engine is in front of the windshield and the entrance door is behind the front wheels. Type C school buses are referred to as "conventional" buses.

Type D School Bus is a body installed upon a chassis, with the engine mounted in the front, mid ship, or rear, with a GVWR of more than 10,000 pounds, designed for carrying more than ten persons. The engine may be behind the windshield and beside the driver's seat; it may be at the rear of the bus, behind the rear wheels; or mid ship between the front and rear axles. The entrance door is ahead of the front wheels. Type D school buses are referred to as "transit style" RE: for "rear-engine", or FC for "forward control".

CHANGES IN SCHOOL BUS DESIGN OR EQUIPMENT

Any changes in design, equipment or additional equipment on a school bus by a school and/or company after receipt of the school bus must have prior approval in writing from the Director, Department of Public Safety, Division of Highway Patrol, Licensing and Commercial Standards section, 1970 W. Broad Street, 4th floor, Columbus, Ohio 43223. Schools and/or companies shall be responsible for any unauthorized items on the school bus.

ANNUAL INSPECTION SCHEDULE, SPOT INSPECTIONS AND BUS PREPARATION

All administrators are responsible for having buses ready for inspection. It is suggested that mechanics be present so that defects may be corrected at the time of inspection. This may eliminate the necessity of re-inspection at a later date.

During annual inspections, any out of service violation will prohibit the issuance of the safety decal.

During new bus inspections, any violation will prohibit the issuance of the registration and safety decal.

During spot bus inspections, any safety violation will suspend pupil transportation and removal of decal.

Each school bus shall comply with this inspection criteria, Ohio School Bus Construction Standards and Ohio Revised Code sections 4511.76 and 4513.02. All school buses shall meet all applicable State and Federal safety standards. Any defect/violation must be repaired prior to the issuance of an inspection safety decal. All defects/violations will be recorded at the time of inspection regardless if the defect/violation is repaired during the inspection.

The Vehicle Identification Number shall appear clearly and be permanently attached to the bus chassis or upon a separate plate or label that is permanently affixed to the interior of the vehicle.

*Buses registered in the state of Ohio will be inspected **twice a year**.* School buses not presented for an annual inspection will be documented as "not presented", and inspection safety decals will not be issued.

The letter of approval for any equipment not permitted by construction standards or not on the approved option list must be presented to the inspectors.

VIOLATION DESCRIPTIONS

- 1. Violations not impacting operational safety will be documented and the vehicle may still be used for pupil transportation. Schools shall correct the violation and maintain documentation of the repair(s). These deficiencies will be noted as **Violation** in the inspection.*
- 2. Out of Service violations impacting operational safety will be documented, the vehicle shall not be used for pupil transportation until repaired. Schools shall correct the violation and maintain documentation of the repair(s) prior to transportation of students. These deficiencies will be noted as **Out of Service: Self-Certify** in the inspection.*
- 3. Out of Service violations that substantially impact the safe transportation of students will be documented, the vehicle shall not be used for pupil transportation. The safety decals will be removed and the bus placed Out of Service. Once a school completes repairs, an in-person re-inspection by OSHP personnel will be completed to place the bus back in service. These deficiencies will be noted as **Pupil Transportation Suspended** in the inspection.*

INSPECTION SYSTEM

Communication:

The inspection method and safety protocols shall be discussed with facility personnel prior to conducting any inspection. Safety topics should include hand and verbal directions between the inspector and bus operator. It is imperative that the bus operator strictly follow the direction of the inspector for the safety of those involved in the inspection process.

Safety:

Immediately after the bus is presented, before any portion of the inspection is performed, the rear axle **SHALL** be chocked. Chocks shall be used in front of and to the rear of either side rear wheel assembly. The inspector shall not be under the bus while the engine is running. The only exception to this is if the inspector needs to check the exhaust system for leaks. Prior to the engine being started, the inspector will position him/herself from under the bus. The inspector shall only go back under the bus after advising the bus operator of their intentions. After the exhaust system is checked, the inspection will continue **only after the engine is turned off**. Safety glasses and mechanics type gloves should be worn by the inspector to aid in the prevention of injuries during the inspection process.

DECAL VALIDATION & PLACEMENT

Decals are to be placed only on school buses that pass the annual inspection. The inspector will validate the decals by stamping out the month in which the annual inspection is conducted. One validation decal is to be placed on each side of the bus, attached at the height of the owner name rail. Right side – in the area of the service door. Left side – as near as possible to the driver's window but not to be placed on a removable panel. Decals are not transferable and will be removed when the school bus changes ownership. All school buses shall meet all applicable State and Federal safety standards prior to receiving an inspection decal. Decals are valid until the next scheduled annual inspection. **Decals may be removed if the bus fails any subsequent inspection.**

OUT OF SERVICE NOTIFICATION

School buses placed out of service will have an “out of service” decal affixed to the windshield and the vehicle's entrance door. If warranted the inspection decal will also be removed. The bus shall not be used for pupil

transportation until the violations have been corrected and the vehicle placed back in service. Upon the completion of the repairs, the out of service decal shall be removed by the school.

CRASH INSPECTIONS

School buses involved in a crash shall be inspected per Ohio Department of Education's rules. For inspections purposes, buses involved in any crash shall be reported to the local Ohio State Highway Patrol within 48 hours.

OTHER USES OF SCHOOL BUSES

In July 1991, the Ohio Attorney General issued an opinion that privately owned school buses may be used for other purposes when not being used to transport students. Some examples are: hauling Christmas trees, transporting adults for hire, or leasing the bus for a special event, such as sports. However, when the school bus is being used for other purposes, it must abide by all regulations pertaining to that use. Refer to 4513.51 and 4513.52 on the Ohio revised code. School buses operating under intrastate or interstate commerce shall comply with the applicable rules and regulations set by the Public Utilities Commission of Ohio (P.U.C.O.) and/or the Federal Motor Carrier Safety Administration.

As an example, if the bus is to be used to transport adults for hire, it would be required to be registered as a commercial motor vehicle and follow all applicable Federal and State Commercial Motor Vehicle Regulations. Use of the eight- way flashing lights is not permitted when the vehicle is not being used as a school bus.

SECTION B

INSPECTION & OUT-OF-SERVICE CRITERIA

GENERAL CARE AND MAINTENANCE

- (1) Every school bus operator and/or provider must systematically inspect, repair, and maintain, or cause to be systematically inspected, repaired, and maintained, all school buses subject to its control.
- (2) Parts and accessories shall be in safe and proper operating condition at all times. These include those specified as “Approved Options”.

Inspection Note

- All buses must be clean inside and out.
- All trash containers must be secured, shall not obstruct any aisle way to any entrance or exit, and shall not interfere with any handrail.
- No flammable fluids, poisons, or aerosol cans are permitted inside the school bus.
- Only items necessary for the operation of the school bus (route slips, schedules, limited cleaning supplies, etc.) may be stored/carried on the bus.
- No oils, fuels, or anti-freeze may be stored/carried on the bus.
- Personal use hand sanitizer (size 12oz or less) stored securely.

Approved Option

- Seat assignment markings are permitted, but shall not cover emergency exit markings.

Notes: **(Added 8/6/20)**

- *Placement of seat assignments shall be consistent throughout the bus. The exemption to this option would be seat closures due to social distance requirements and or public health recommendations. (Closure decals shall be no larger than 12” X 12”).*
- *Permitted markings shall:*
 - *Fit within a 12” X 12” area:*
 - *Decal may be affixed as a sticker or secured to the surface with clear tape.*
 - *Raised lettering or decals will not be permitted seatback or floor.*
- *Permitted locations for seat assignments:*
 - Above or below the window
 - Floor, in the seating area
 - Seatback
- Broom, snow brush, ice scraper, and trash container. All equipment must be secured in the driver’s area.
- Cleaning Supplies **(Added 8/6/20)**
 - Only items necessary for the operation of the school bus (route slips, schedules, limited cleaning supplies, etc.) may be stored/carried on the bus. Disinfectants must be stored separately in a closed secured compartment/container and out of the reach of passengers while students are on board the

vehicle. If it is impractical to store the disinfectants in the driver's area, they may be secured in the first seat directly behind the driver, passengers cannot occupy the space if this option is utilized. Cleaning and disinfectants shall be stored separately.

- Note: The type of disinfectant must be authorized by the school's administration, while taking into consideration any recommendations provided by the Department of Health. Container dimensions must not exceed the seat bottom, extend into the aisle way, or above the seatback.

- Thermometers* (*Added 8/19/2020*)

- Touchless battery operated handheld thermometers may be used/stored on a bus. The device cannot be used by or distract the bus driver from their statutory obligations. When not in use, the handheld thermometer must be stored securely.
- Devices that utilize thermal imagery capable of checking the temperature of the boarding passengers may be installed at the top of the stairs and to the right of the OEM bus controls. The device must be securely mounted, outside the driver's view, and positioned so as not to create catch points. Power will be provided by direct wire to this device and must be separated with the use of a fuse. The device may give an audible tone or phrase to indicate a normal or high temperature. The device cannot be used by or distract the bus driver from their statutory obligations.
 - **School Transportation/Administration should follow their policy for the implementation of on-board temperature reading devices. This should include an efficient and proactive approach to limiting any additional time to the process of boarding students.*

- Hand Sanitizer: (*Added 06/15/2020*)

- Personal use
 - Stored securely within the driver's compartment, 12oz or less in capacity.
- Entry mounted dispenser
 - Must be securely installed in the driver/entry area, either behind the handrail or just to the right of the driver on the side of the dash.
 - Cannot cause a catch point to the passengers as they enter or exit, nor can the installation encroach into the bus entry point.
 - Overall dimensions for the dispenser cannot exceed 6" in depth, 7" in width, and 12" in height.

- Auto Misting Sanitizer: (*Added 8/4/2021*)

- A device that discharges metered amounts of sanitizer, disinfectant, or antimicrobial solution. Only **non-alcohol-based** sanitizer, antimicrobial or antibacterial may be used.
- The tank shall be impact resistant and meet FMVSS/SAE standards. It shall be installed in a fixed location, using self-tapping screws and out of the reach of pupils. The hoses and return lines must be installed away from the seat pouch and aisle to prevent a catch point.
- Sprayers must meet current interior construction standards and shall not be installed in such a way to cause sharp edges, snagging or protruding in head impact area.
- System must have safety features to prevent accidental discharge. System controller and components must have no power while vehicle ignition is in the ON position as well as the accessories position. The system requires a special key be inserted at the back of the bus. Key insertion must fall within timed parameters, or the system will not power on.

- After turning the key in the back of the bus, a time delay must be activated long enough for the driver to do a safety check during and activate the timer button located in the front of the bus. Once this button is pressed, it starts a programmable timer to allow for the driver to safely leave the bus. At any time during the operation, the system can be completely disabled by turning the vehicle's ignition key to the on position or pressing the stop button on the supplied Bluetooth application

Violation

- Any unauthorized items left on the bus.
- The school bus is not reasonably clean inside and out.

Schools can self-certify the repair of this violation.

Out of Service

- Loose or unauthorized items, garbage, decorations, or any other item that could compromise the safe operation of the bus.
- Brooms, scrapers, garbage cans not secured or stored in the proper manner.
- Pressurized containers (aerosols).
- Flammable cleaning materials. (Alcohol, turpentine, gasoline).
- Hand sanitizer stored improperly, exceeds dimensions, or mounted dispenser installed incorrectly and/or causing a catch point.

Schools can self-certify the repair of this OOS violation



4501-5-02 SCHOOL BUS CONSTRUCTION STANDARDS.

[Comment: For dates and availability of material incorporated by reference in this rule, see paragraph (S) of rule 4501-5-01 of the Administrative Code.]

These standards apply to any school bus used to transport school children to and from school and/or school related activities and events.

(A) Access steps. (except "Type A" buses)

- (1) Steps shall be installed on each side of the school bus to allow access to windshield for cleaning.
- (2) Grab handles shall be securely mounted in a suitable position to assist in using the steps.
- (3) In lieu of steps installed on each side, the steps are permitted in or on the front bumper if the windshield can be accessible for cleaning from that position.

Inspection Note

- None

Approved Option

- Grab Handle
 - May also be yellow polymer coated.

Violation

- Inoperable step or grab handle.
Schools can self-certify the repair of this violation.

Out of Service

- Missing or damaged access step or grab handle.
Schools can self-certify the repair of this OOS violation.

(B) Air compressor for accessories.

An accessory compressor that supplies air to accessories only shall be sized appropriately. Accessory compressors shall not be connected to the braking system in any way.

Inspection Note

- Accessory mounting brackets shall be secure. (Compressor, alternator, etc.)

Approved Option

- None

Violation

- Audible air leak at the compressor or proper fittings. (Bus is able to pass air loss test.)
Schools can self-certify the repair of this violation.

Out of Service

- Cracks or bolts missing in mounting bracket.
- Air leak other than proper connection.
- Audible air leak. (Bus is unable to pass air loss test.)
- Not securely mounted.

Schools can self-certify the repair of this violation.



(C) Aisle.

- (1) Minimum width of aisle shall be twelve inches at floor level.

- (2) Minimum width of aisle between seats shall be twelve inches at seat level.
 - (3) The aisle shall not be less than twelve inches wide between any two objects from the service doors to the aisle in the passenger area from floor to ceiling.
 - (4) Hold-down fastening devices used on inside engine cover shall be designed to prevent hooking or catching on shoes or clothing.
-

Inspection Note

- All aisles leading from the wheelchair area to an emergency door and the lift shall be of sufficient width, minimum of thirty inches, to permit passage of maximum size wheelchair.
-

Approved Option

- None
-

Violation

- None
-

Out of Service

- Minimum width of aisles does not meet Construction Standards.
- Hold down on engine cover not secured or creates trip hazard.

Pupil Transportation Suspended and decals removed. In-person inspection required.

(D) Axles and suspensions.

- (1) The front and rear axles, including suspension assemblies, and all frame-to-ground components, shall have a gross axle weight rating when measured at the ground at least equal to that portion of the load as would be imposed by the chassis manufacturer's maximum gross vehicle weight rating.
 - (2) Heavy-duty, double-acting shock absorbers compatible with the manufacturer's rated axle capacity shall be installed on the front and rear of the school bus chassis.
 - (3) Suspension assemblies as specified shall maintain/control stability of school bus under all conditions.
-

Inspection Note

- Shock absorbers must be properly mounted to the frame and axle.
 - Seals shall not leak.
- Springs, Torsion Bars and Torque Rods (front & rear)
 - Visually inspect for broken leaf springs, coil springs, torque rod, or torsion bar damage.
 - Inspect spring shackles, bushings, "U" bolts, spring center bolts, and remaining suspension members.
- Air Suspension

- With the entire system drained of air following the manufacturer's recommended procedures, start the engine and observe the air pressure at which air begins to flow into the suspension system and lift the vehicle.
- With the system fully charged, inspect for any audible leakage at the bellows, connections or hoses.
- Kingpins
 - Kingpins will be checked randomly per fleet age and size.
 - Eliminate all wheel bearing play by applying service brakes.
 - With front end lifted, grasp tire at top and bottom and attempt to move in and out to detect looseness. (A pry bar may be necessary.)
 - Measure the movement at the top or bottom of the tire at the outer circumference.

Approved Option

- None

Violation

- Spring Assembly
 - Any crack in spring not completely broken
- Shock Absorber
 - Missing or damaged dust shield.
- Air Suspension
 - Any cut or damage into the ply of the airbag.

Schools can self-certify the repair of this violation.

Out of Service

- Spring Assembly:
 - Any broken leaf in a leaf spring assembly.
 - One or more leaves displaced in a manner that could result in contact with a tire, rim, brake component or frame.
 - Coil Spring broken.
 - Any leaf or portion of any leaf in any spring assembly that is missing or separated
 - Rubber spring missing.
- Shackles and/or "U" bolts are worn or loose or spring center bolt is broken or sheared.
- Any U-bolt or other spring to axle clamp bolt cracked, broken, loose, or missing.
- Any spring hanger or other axle positioning part cracked, broken, loose, or missing resulting in shifting of an axle from its normal position.
- Springs, torque rods, torsion bars or other suspension components are broken or shifted.
- Kingpins with visible movement. (Movement in excess of manufacturer's specification. Normally ¼ inch.)
- Air Suspension
 - Air begins to flow into the suspension system below 55 PSI
 - Deflated system
 - Any audible air leak
- Shock Absorbers
 - Leaking fluid
 - Loose shock absorber
 - Missing or broken

Pupil Transportation Suspended and decals removed. In-person inspection required.



(E) Battery.

(1) "Type B, C and D" buses:

- (a) A battery or batteries of at least eight hundred cold cranking amperes for a gasoline powered engine.
- (b) A battery or batteries of at least one thousand two hundred fifty cold cranking amperes for a diesel powered engine.

(2) "Type A I and A II" buses:

- (a) A battery or batteries of at least six hundred cold cranking amperes for a gasoline powered engine.
- (b) A battery or batteries of at least one thousand cold cranking amperes for a diesel powered engine.

(3) A battery or batteries of at least one thousand two hundred cold cranking amperes if equipped with a lift.

(4) One-piece, non-spliced battery cables shall be provided by the chassis manufacturer. All cables shall conform to SAE standard J541 with respect to electrical resistance.

(5) "Type A I and A II" buses may have the battery/batteries located at the manufacturer's standard. Batteries for "Types B, C, and D" buses shall be mounted in the body skirt by the body manufacturer. Rear engine buses may have batteries mounted in engine compartment.

(6) A drawer-type pull-out tray shall be installed whenever the battery/batteries are accessed through the body fender skirt. The batteries shall be enclosed by a compartment constructed of mill-applied zinc coated steel, or other acid resistant material, provided with drain ports, hold-down carrier mounted so as to avoid blocking filler ports, and latching device to prevent accidental opening. Drawer assembly shall be covered with acid-resistant paint or material. Battery tray shall be equipped with a positive locking device to keep tray from sliding completely out to prevent battery from being dropped.

Inspection Note

- Batteries shall be securely mounted.
- Terminals and connections must be clean and free of corrosion.

Approved Option

- Battery emergency disconnect switch:
 - Must be installed and maintained to manufacturers specifications.
 - Low voltage automatic battery disconnect switches are approved if the switch is connected to and works only off the accessory side of the ignition switch.

- Battery box and fuel tank:
 - On buses used to transport pupils with disabilities, the battery box and fuel tank may be located by the manufacturer to provide equal weight distribution to compensate for power lift weight.
- Battery tender/trickle charger: *(Added 06/15/2020)*
 - Direct Wired
 - Must be installed and maintained to manufacturers specifications.
 - All connections must not interfere with OEM operations and shall be separated from the main lines with the use of a fuse.
 - While not in use, any connection points must be stored securely.
 - Roof Mounted Solar
 - Must be installed and maintained to manufacturers specifications. All roof mounted wiring must be securely affixed to the roof, pass through the roof line requires a sealed/protected entry point and then concealed within the bus body.
 - All connections must not interfere with OEM operations and shall be separated from the main lines with the use of a fuse.
 - A separate voltage/operational display can be installed in the driver's area only if it does not interfere with the operations of OEM controls nor cause a vision obstruction for the driver.
 - The solar panel installation location cannot interfere with operation of the emergency roof hatch(s), any roof mounted lights, and/or safety equipment.
 - The installation height cannot exceed state vehicle requirements nor extend above the roof mounted (light) beacon.

Violation

- Corrosion on the terminals and/or connections.
 - Any battery cable or connection point chafed.
 - Any missing or damaged protective grommet where the cable passes through the body or battery box.
- Schools can self-certify the repair of this violation.**

Out of Service

- Batteries not securely mounted.
- Battery tray latch not engaged or loose.
- Battery tray latch missing or inoperable.
- Objects in battery area that may contact the battery terminals and cause a short in the system.
- Any battery cable with damage to the protective coating exposing wire.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(F) Body construction.

- (1) All construction components (except door handles, grab handles, interior decorative parts, other interior plated parts, and components heavier than twelve-gauge), shall be of prime commercial quality mill-applied zinc coated steel, other anti-corrosive coating or composite materials. Components must meet or exceed current strength and durability and all applicable "Federal Motor Vehicle Safety Standards." The zinc plating shall be one hundred twenty grams per meter square minimum coating weight (G60) or equivalent applied by either hot dipping or electroplating. All such construction materials shall be fire resistant.
- (2) All metal surfaces that will be painted shall be chemically cleaned, etched, zinc-phosphate coated, and zinc-chromate or epoxy-primed, or conditioned by equivalent process.
- (3) In providing for the requirements in paragraphs (F)(1) and (F)(2) of this rule, particular attention shall be given to lapped surfaces, welded connections of structural members, cut edges, punched or drilled holed areas in sheet metal, closed or box sections, unvented or undrained areas, and surfaces subject to abrasion during vehicle operation.
- (4) Upon final assembly of the bus body and after mounting body upon chassis, the total unit strength of the school bus shall meet or exceed all strength criteria as established by FMVSS 571.220 and FMVSS 571.221.
- (5) Body construction shall provide a dustproof and watertight unit.
- (6) Exterior body panels shall meet or exceed FMVSS 571.221.
- (7) Floor.
 - (a) The floor shall be not less than fourteen-gauge mill, corrosive resistant coated steel or composite materials. If zinc plated, the plating shall be one hundred twenty grams per meter square minimum coating weight (grade sixty) or equivalent applied by either hot dipping or electroplating.
 - (b) The floor may be flat.
 - (c) "Type A" buses have an additional step from the step well.
 - (d) A fuel access plate shall be installed for easy access to fuel gauge mechanism. ("Type A" buses excluded)
- (8) Rub rails.
 - (a) Manufacturers shall install one rub rail at approximately seat level, except for the opening for engine compartment side door in a rear engine bus. This rail shall extend from the main vertical post behind the service door to the forward-most vertical post on the left side of the body, including left side emergency door. (Rear emergency door exempted)
 - (b) A second rub rail shall be installed at approximately the floor line and cover the same longitudinal area as the seat level rail, except at wheel housings, and needs only to extend to the radii of right and left rear corners.
 - (c) A third rub rail may be installed on the lower edge of the body skirt.
 - (d) All rub rails shall be attached at each body post and all other upright structural members.

- (e) Each rub rail shall be four inches or more in width in its finished form and shall be constructed of sixteen gauge metal or other material of equivalent strength suitable to help protect body side panels from damage.
- (f) All rub rails shall be mounted outside of body panels.
- (g) Additional external rub rails are permissible if they form an integral part of the body construction and meet the fastening requirements.
- (9) Fold out steps may be installed at the regular service entrance.
 - (a) The fold out step will provide a step level that is six inches or less to ground level.
 - (b) The fold out step may be power activated or manually operated.
- (10) If the ceiling is so constructed to contain lap joints, the forward panel shall be lapped by the rear panel and the exposed edges shall be beaded, hemmed, flanged or otherwise treated to minimize sharp edges.
- (11) All body components shall be designed and constructed to avoid the entrapment of moisture.

Inspection Note

- Body panels and rub rails shall conform to the normal contour of the school bus body.
- Body sheet metal shall have no holes due to rust or damage. All holes are to be repaired by use of panels, covering plate or body putty depending upon type and amount of damage.
- All repairs must maintain the structural integrity of the bus.
- Holes cut or drilled for installation of equipment shall be utilized for that purpose or covered.

Approved Option

- Cup holder:
 - Must be installed and positioned so they do not interfere with the safe operation, nor can the placement of the cup holder be outside the seated reach of the bus driver.
 - Cup holders cannot be installed within the view of the front windshield.
 - Permitted cup holder styles:
 - One piece plastic cup holders, recess mounted in the front or side dash.
 - Metal fold-out cup holders, permanently/securely attached.
- Fire suppression system:
 - Fire suppression systems must be installed per the manufacturer's recommendations and checked annually by a qualified technician.
 - Installation shall not interfere with the driver's ability to operate any OEM controls and shall be completely isolated from the vehicle's electrical system by means of a fuse or breaker.
 - The suppressant delivery points may be installed in the engine compartment, battery box, and undercarriage of the vehicle.
 - Mounting of the system shall be outside of the passenger compartment and have no effect on the vehicles structure to include welding or drilling into the main frame.

- The cylinder and gauges shall be contained in a metal protective box and marked on three sides in 2 inch red letters "Fire Suppression" on a white background.
- The system shall be isolated to prevent accidental discharge of the suppression contents.
- A monitor to show the status of the unit may be installed in the driver's area in such a way as to not interfere with the safe operation of the bus.
 - Panels:
 - Body panels if other than steel or composite material may be used only if meets FMVSS 571.221.
- Special padded/foam covered panels may be installed on the interior walls (to prevent head injury to self-abusive children) following these guidelines:
 - The padded panels shall be constructed of the same materials used in the construction of the bus seat(s).
 - The special panel may cover the window.
 - The panel(s) shall be attached to the sidewall of the bus.
 - The panels shall not obstruct any portion of an emergency window or exit.
 - Materials used in the construction of the special panels shall comply with FMVSS 571.302.
- Storage compartments:
 - Storage compartments outside the school bus under the floor and in place of the skirt side panels. Equipment type storage boxes, supplied by manufacturers, installed under the bus seats.
 - An emergency equipment cabinet installed in the driver's compartment to include the body fluid cleanup kit, fire extinguisher, first aid kit, and the highway warning kit. This cabinet, if installed, shall be labeled in contrasting colored letters at least two inches high and identify the contents within and shall not protrude into the driver or passenger impact zones as established in FMVSS 571.222. The cabinet shall not decrease the headroom at the entrance door, steps, aisle way or any emergency door.
- Fireproof storage pouch may be secured to the barrier behind the driver's seat.
- Undercoating:
 - The entire underside of the bus body, including floor sections, cross member and below floor-line side panels, may be coated with rustproofing material that meet or exceed all performance requirements of SAE J1959.

Violation

- Any loose or missing fasteners in the body, ceiling or rub rails.
Schools can self-certify the repair of this violation.

Out of Service

- Any holes that allow air infiltration into passenger compartment (Except Manufacturer's ventilation passages).

- Body damage that could affect the structural integrity of the bus and or cause sharp edges or projections in the body panels.
- Color not in compliance with ORC 4511.77
- Interior or exterior rust hole in the body, floor or rub rail.
- Loose or missing section of body, ceiling or rub rail.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(G) Brakes.

All braking systems and components shall meet or exceed the minimum requirements specified in applicable Federal Motor Vehicle Safety Standards 571.105 or 571.121 and the following:

- (1) Air or hydraulic brake systems are acceptable. If brakes are air actuated, they shall be of the cam drum type on front and rear wheels, disc front and drum rear or four-wheel disc. Brakes that are hydraulically actuated, shall be disc front and drum rear or four-wheel disc.
- (2) All air brake systems shall have both visual and audible warning systems that activate as required by FMVSS 571.121. Hydraulic brake systems that utilize hydraulic power assist shall have both visual and audible warning systems that activate as required by FMVSS 571.105.
- (3) For air brake systems, an air pressure gauge shall be provided in the instrument panel capable of complying with CDL pre-trip inspection requirements.
- (4) Air compressors that supply air to brakes must have sufficient rated capacity that meets or exceeds FMVSS 571.121 (minimum of thirteen cubic feet per minute) and shall be pressure oil fed. Clean air to all compressors shall be supplied and filtered through the engine air cleaner.
- (5) All air supplied from the air tanks shall be taken at or above the center line of the air tank to avoid contaminants entering the braking system or air operated accessories.
- (6) All school buses equipped with air brakes shall require a desiccant type air dryer with a renewable or replaceable desiccant cartridge (filter). Dryer shall incorporate an automatic purge and drain cycle with heating element.

Inspection Note

- Brakes (Must comply with FMVSS 571.105 or 571.121.)
- Pedal
 - Pedal blocks or adjustable pedals, if used, shall be installed only by manufacturer on buses bid after 01/01/1991.
- Brake Lines
 - No cuts or breaks in the line.
 - No lines shall be in contact with the exhaust system or chassis components.
 - No evidence of leaks, crimping, rust or excessive wear.

- No frayed lines or rubbing against other components.
- **Brake Hoses**
 - No hose with any damage extending through the outer reinforcement ply. Thermoplastic nylon may have braid reinforcement or color difference between cover and inner tube. Exposure of second color is cause for rejection.
 - No bulge or swelling when pressure is applied.
 - No audible or visible leaks.
 - No improper joints (such as a splice made by sliding the hose ends over a piece of tubing and clamping the hose to the tube).
 - No brake lines or hoses that are broken or crimped.
- **Brake Linings or Pads**
 - Linings may be checked through drum inspection slots.
 - Lining or pad should be firmly attached to the shoe.
 - Not saturated with oil, grease, or brake fluid.
- **Minimum Lining Thickness:**
 - **Non-steering axle**
 - (a) Drum - 1/4 inch
 - (b) Disc - 1/8 inch
 - **Steering axle**
 - (a) Drum - 3/16 inch
 - (b) Disc - 1/8 inch
 - **Type "A" bus 10,000 GVWR or less**
 - (a) Drum - 2/32 inch
 - (b) Disc - 2/32 inch
 - **Brake Drums or Rotors**
 - Any external cracks that open when brakes are applied (Do not confuse short hairline internal check cracks with flexural cracks).
 - Any portion of the drum or rotor missing or in danger of falling away.
 - **Hydraulic, Vacuum Assist, or Hydraulic Assist**
 - Should be able to maintain brake pedal height under moderate foot force (40-60 pounds) for one minute without pumping.
 - With vehicle in stopped position and brake pedal depressed under moderate foot force (40-60 pounds) there should be a minimum of one-third of the total available pedal travel (manufacturer's specification) remaining on non-powered systems.
 - Inspect calipers for leakage, loose support key, retaining screw, or torn dust boots.
 - Electric hydraulic brake assist motor must be heard when brake pedal is depressed with the engine off.
 - Hydraulic brake systems shall have visible and audible warning signal to indicate loss of pressure (Buses bid after 01/01/1988).
 - Check for any fluid leaks on wheel cylinders, master cylinders, hydrovac, and hose connections on buses using vacuum assisted brakes. Check for brake fluid around the brake booster - between the booster and firewall.
 - If bus is equipped with air or vacuum assist, it shall have a visible warning signal and gauge to indicate any loss of air or vacuum. Buzzer shall be installed in combination with the gauge and warning signal on air operated brake systems. Buzzer must be loud enough to be heard over engine noise.
 - **Air Brake**
 - Air brake adjustment cannot be checked by feel of the pedal.
 - Check for air leaks from reservoirs, chambers, valves, connections and lines.

- Start engine and build to full pressure until air compressor cuts out, stop engine, check for one minute; without a brake application, there should not be a pressure drop on gauge or audible leaks.
 - Start engine and build to full pressure until air compressor cuts out, stop engine, make a brake application and hold down for one minute; there should not be a pressure drop on gauge or audible leaks.
- Quick release valve, when installed, shall be operative.
- Visible and audible warning system shall activate when the air pressure gauge drops below 60 PSI the audible warning must be loud enough to be heard over engine noise.
- Check all moisture ejection valves for leaks and proper operation. This valve is not required if the bus is equipped with an air dryer.
- Check air dryer and after cooler for leaks and proper operation. Buses manufactured after 07/01/1988 shall be equipped with an air dryer.
- A manufactured discharge of air during brake checks is acceptable.
- All buses shall be inspected to ensure that the slack adjusters are in proper adjustment. The effective length of the slack adjuster on each end of an axle must be the same.
- The service brake chambers and spring brake chambers on each end of an axle must be the same.
- All air tanks shall be securely mounted.
- Drain valve shall operate with hand pressure.
- Safety and check valves shall be operative. A random sample of buses, a minimum of twenty percent of the total bus fleet, shall be inspected to ensure that air supply components are operating properly.
- Moisture ejectors required unless equipped with air dryer system. Alcohol evaporators are permitted. Air dryer systems are required after 07/01/1988.
- Check air compressor for frayed, chunking or loose belts, loose mounting bolts, cracked or loose pulley or mounting brackets and braces, and excessive oil leaking from compressor.
- Air pressure build-up time. Fully charge the system to governed cut out. Pump the service brake pedal to lower the system air pressure to below 80PSI using the dash gauges. With the engine operating at the manufacturer's maximum recommended governed speed, time from the time the air pressure gauges passes 85 PSI to the time it passes 100 PSI The time should not exceed 40 seconds. If the school contests the results, contact the manufacturer for the systems build up time per Federal Motor Vehicle Safety Standards 571.121 S5.1.1. If the system fails the manufacturer's build up time, repairs are needed.
- **Parking Brake**
 - The parking brake shall hold the vehicle on any grade on which it is operated, under all conditions of loading, and on a surface free from snow, ice, or loose material. With the exception of vehicles equipped with drive shaft parking brakes. Spot check — apply and put in gear with engine at idle; vehicle should not move. • Any bus bid after 09/01/1998 will have a red indicator light.
 - Buses with air brakes may have the parking brake set automatically below 40 PSI It shall not set higher than 40 PSI
 - If parking brake pop off valve does not set automatically, test the spring brake. With the gauges at zero, start the bus; place the bus in gear at idle. The spring brake shall hold the school bus in place without the pop off valve pulled setting the parking brake.
- **Parking Brake Assembly on Drive Shaft**
 - Check brake lining to ensure not covered in grease and is intact.
 - Assembly shall be properly mounted with no loose bolts or nuts.

- The parking brake shall hold the vehicle on any grade on which it is operated, under all conditions of loading, on a surface free from snow, ice, or loose material.

Approved Option

- **Brake equipment:**
 - “Visual” brake stroke indicators.
- **Interlock Systems**
 - Service brake interlock:
 - Service door - A system may be installed which automatically applies the service brakes when the red warning lights are activated and the service door is opened. If the service brake interlock system malfunctions a continuous amber light, mounted on the driver’s control panel with an identification label and a unique audible warning will activate. The system will do a self-test when activated with the amber warning light and audible warning momentarily going on and off, indicating the system is working.
 - Lift door - A system may be installed which automatically applies the service brake when the lift door is open. If the service brake interlock malfunctions a continuous amber light, mounted on the drivers control panel with an identification label, and a unique audible warning will activate. May be installed to meet FMVSS 571.403/404.
- **Transmission/Parking Brake Interlocking Devices:**
 - Interlocking device which will “lock” the transmission/parking brake. Prior to installation of the device, the device and installation must be approved by the guidelines established by OAC 4501-5-09.

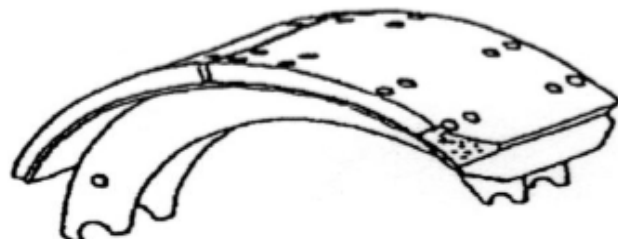
Violation

- Brake Lines (Hydraulic)
 - Chafing of any brake line
- Brake Hoses (Air)
 - Chafing of any brake hose
- Drain valve(s) inoperable on any Air Reservoir (Tanks)
- Pedal
 - Brake pedal pad worn or missing.
 - Inoperable adjustable brake pedal (if installed).

Schools can self-certify the repair of this violation.

Out of Service

- ANY defective brake on the vehicle. A defective brake includes any brake that meets one of the following:
 - General:
 - Absence of effective braking action upon application of the service brakes (Such as brake linings failing to move or contacting braking surface upon application).
 - Missing or broken mechanical components including: shoes; linings; pads; springs; anchor pins; cam rollers; pushrods, and air chamber mounting bolts.
 - Loose brake components including air chambers and camshaft support brackets.
 - Brake linings or pads which are cracked, missing or loose; oil seepage into or out of the brake lining/drum interface area; any lining below manufacturer's recommended thickness.



Out-of-Service
Portion of lining missing that exposes a fastening device.



Out-of-Service
Cracks or voids that exceed 1/16" in width.
Cracks that exceed 1-1/2" in length.

- Air Brakes:
 - Any audible air leak in any part of the air system (examples – air doors, air-operated stop signs, air suspensions).
 - Any continuous visible loss of air pressure viewed on the air gauges.
 - Inoperative air gauges.
 - Mismatched air chamber sizes and brake adjuster length.
 - Any brake outside the brake adjustment limit. (A brake found at the adjustment limit is not a violation.)
 - Low pressure warning device missing, inoperative or does not operate at 55 PSI and below (Both audible and visual must work with engine running).
 - Any damage to a hose extending through the outer reinforcement ply.
 - Bulge/swelling of any air brake line at any time.
 - Any hose improperly joined or spliced.
- Air Compressor
 - Loose compressor mounting bolts.

- Cracked, broken or loose pulley.
- Cracked or broken mounting brackets, braces or adapter.
- Air Reservoir (Tanks):
 - Not properly secured; separated from its original attachment points.
 - If tanks drained, any inoperative safety component (check valve, double check valve, and inversion valve). No air lost as described in the School Bus Inspection Manual during test.

CLAMP TYPE BRAKE CHAMBER DATA

Type	Outside Diameter	Adjustment Limit
6	4-1/2	1-1/4
9	5-1/4	1-3/8
12	5-11/16	1-3/8
16	6-3/8	1-3/4
20	6-25/32	1-3/4
24	7-7/32	1-3/4
30	8-3/32	2
36	9	2-1/4

BOLT TYPE BRAKE CHAMBER DATA

Type	Outside Diameter	Adjustment Limit
A	6-15/16	1-3/8
B	9-3/16	1-3/4
C	8-1/16	1-3/4
D	5-1/4	1-1/4
E	6-3/16	1-3/8
F	11	2-1/4
G	9-7/8	2

'LONG STROKE' CLAMP TYPE BRAKE CHAMBER DATA

Type	Outside Diameter	Adjustment Limit
12	5-11/16	1.75
16	6-3/8	2.0
20	6-25/32	2.0
24	7-7/32	2.0
24*	7-7/32	2.5
30	8-3/32	2.5
* For 3" maximum stroke type 24 chambers.		

ROTOCHAMBER DATA

Type	Outside Diameter	Adjustment Limit
9	4-9/32	1-1/2
12	4-13/16	1-1/2
16	5-13/32	2
20	5-15/16	2
24	6-13/32	2
30	7-1/16	2-1/4
36	7-5/8	2-3/4
50	8-7/8	3

TIE ROD STYLE PISTON BRAKE CHAMBER DATA

Type	Outside Diameter	Adjustment Limit
30	6-1/2 (165mm)	2.5 (64mm)

DD-3 BRAKE CHAMBER DATA

Type	Outside Diameter	Adjustment Limit
30*	8-1/8	2-1/4
*This chamber has three air lines and is found on motor coaches.		

- Hydraulic Brakes
 - Any fluid leak in the hydraulic system.
 - Power assist motor inoperable.
 - No pedal reserve with engine running (manufacturer specification).
 - Master Cylinder less than 1/4 full.
 - Swelling brake hose under application of pressure.
 - Hose abraded (chafed) through outer cover-to-fabric layer.
 - Fluid lines or connections restricted, crimped, cracked, or broken.
 - Brake failure light/low fluid warning light on and/or inoperative.
- Parking Brakes
 - Inoperative.

- Will not hold vehicle when applied with engine running at idle and in low gear (Do not test drive shaft parking brake in this matter).
- Parking brake assembly on drive shaft to be free of grease and properly mounted with no loose bolts or nuts.
- Any wheel equipped with an inoperative parking brake
- Spring brakes do not set before complete loss of air pressure (air brake).
- Brake Drums or Rotors
 - Drums with any external crack or cracks that open upon brake application.
 - Any portion of the drum or rotor (discs) missing or in danger of falling away.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(H) Bumpers.

- (1) Front bumper for all buses having a GVWR of twenty-one thousand five hundred pounds or less shall be manufacturers standard. ("Type A" buses)
- (2) Front bumper for all buses having a GVWR greater than twenty-one thousand five hundred pounds rating:
 - (a) Bumper shall be at least three-sixteenths of an inch thick pressed steel channel, one-piece construction, with a minimum width of eight inches after forming. Materials other than pressed steel may be used if equivalent in strength and durability of pressed steel.
 - (b) Bumper shall be contoured to offer maximum protection of fender lines without permitting snagging or hooking.
 - (c) Bumper shall be attached to the frame and extended forward of grille, head lamps, fender, or hood sections and extend the entire width of the bus to provide maximum protection.
 - (d) The bumper shall be of sufficient strength to permit lifting the bus with a bumper type lift for servicing
- (3) Rear bumper.
 - (a) Bumper shall be of sufficient strength to permit lifting the bus with a bumper type lift for servicing and shall be one piece, heavy-duty type of pressed steel channel, at least three-sixteenths inch of thickness. Materials other than pressed steel may be used if equivalent in strength and durability of pressed steel.
 - (b) Bumper shall be a minimum of eight inches in height after forming.
 - (c) Bumper shall be wrapped around back corners of bus and extend forward at least twelve inches, measured from rear-most point of body at floor line. Rear bumper shall also protect rear corners of body by extending beyond the body exterior side panels. The bend of the rear bumper at the rear body corners shall be sufficient to allow the entire contour of the forward end of the rear bumper to extend no more than one inch beyond the body line of the exterior side panels.
 - (d) Bumper shall be fastened to chassis frame side rails in such a manner as to develop full strength of

bumper section from rear or side impact. Bracing materials shall have an impact ratio comparable to that of bumper material and shall be fastened at the ends and radii of the bumper, attached to the side of the frame only and not to the body at any point.

- (e) Bumper shall extend beyond rear-most part of body surface at least one inch, measured at floor line.
- (f) No spaces, projections, or cutouts that will permit a handhold are permitted.
- (g) Front ends of the bumper shall be enclosed by endcaps or other protective metal or shall have the ends rounded or tucked in and shall be free from sharp edges or projections likely to cause injury or snagging.
- (h) A rubber or metal strip shall be installed to close any opening exceeding one-fourth inch between rear bumper and body metal.
- (i) The vertical distance between the bottom of the bumper and the ground shall not exceed thirty inches when the vehicle is empty.

Inspection Note

- Buses manufactured after 07/01/1988 will have a front bumper at least three-sixteenths of an inch pressed steel, channel one-piece construction, and a minimum of eight inches in width after forming. Type A exemption, factory standard. (Applicable construction standards)
- Shall be black.

Approved Option

- School bus crossing control arms/gates:
 - Gates shall be activated automatically with the initiation of the red warning lights.

Violation

- Wrong Color
 - Rusted or cut
 - Loose bolts or washers
 - Crossing gate fails to fully retract.
- Schools can self-certify the repair of this violation.**

Out of Service

- Missing or not securely mounted
 - Altered, broken or protruding metal
 - Crossing gate inoperable and/or audible air leak.
- Pupil Transportation Suspended and decals removed. In-person inspection required.**



(I) Color.

- (1) Bumpers shall be black.
- (2) Fender and body shall be painted national school bus yellow.
- (3) Hood may be painted non-reflective national school bus yellow or flat black (except "Type A").
- (4) Frame shall be painted black.
- (5) Grille may be painted national school bus yellow, black or chrome or anodized aluminum in finish. Rear engine bus grille area(s) shall be national school bus yellow.
- (6) Steel wheels shall be black and/or gray. Aluminum wheels are permitted.
- (7) All lettering and numbering on exterior shall be black.
- (8) Background area and optional hoods for warning lights shall be black.
- (9) Rub rails shall be black.
- (10) Service door may be black.

Note:

- (a) Special service doors shall not be black.
- (b) Left side driver's door on "Type A and A II" buses shall not be black.

Inspection Note

- Color of wheels to be uniform per bus.
- Hoods on buses manufactured from 2019 to present may be painted reflective national school bus yellow or flat black. All buses manufactured prior to 2019 may be painted non-reflective national school bus yellow or flat black.

Approved Option

- White painted exterior roof panels.

Violation

- Damaged, faded, or peeling (age of the vehicle to be taken into consideration)
Schools can self-certify the repair of this violation.

Out of Service

- Paint color not in compliance with 4511.77 of the Ohio revised code.
- Reflective paint used on the hood on buses manufactured prior to 2019.
- Incorrect color used for the location

Schools can self-certify the repair of this OOS violation.



(J) Cooling system.

- (1) Cooling system shall be manufacturer's standard.
- (2) Cooling fan(s) may be variable speed.
- (3) The cooling system shall have a means of checking the coolant without having to remove the radiator cap.

Inspection Note

- Radiator
 - Shall be securely mounted.
 - Radiator cap shall be present and fit properly.
- Hoses
 - No leaks permitted.
- Fans and fan shrouds must be securely mounted.
- Fan belt shall be adjusted to proper tension according to Manufacturer specification.

Approved Option

- Automatic radiator shutters.
- Air conditioning.
 - Installed prior to 9-1-2003: Units cannot protrude into the head impact zone of any passenger seat.
 - Installation or bid date of bus after 9-1-2003: Units cannot protrude into the head impact area of any passenger seat as described in FMVSS 571.222. The units cannot decrease the inside body height per rule 4501-5-03 (O) and 4501-5-06 (M) effective 9-1-2003. The units shall not decrease the headroom at the entrance door, steps, aisle way or any emergency door.
- No unit shall interfere with any emergency exit in violation of FMVSS opening requirements.

- Air conditioning units may be installed above the rear emergency door under the following conditions:
 - Shall not interfere with any emergency exit in violation of FMVSS opening requirements.
 - Shall not extend into the passenger area of the vehicle beyond the following dimension:
 - Measuring from the interior surface of the emergency door at the location of the door latch, twelve inches excluding padding.
 - All exposed edges shall be rounded or padded.
 - Padding shall meet FMVSS 571.302
- Air Purification: *(Added 06/15/2020)*
 - Air purifications systems may consist of HEPA and/or UV technology. Installation of the air handlers must meet or exceed all requirements for head impact area, emergency exits, nor may they decrease the inside body height as required. Units must be installed and maintained per the manufactures specifications. Control of fan speed and functionality of the unit(s) shall be installed within reach of the driver.
 - Purifications units may be installed above the rear emergency door under the following conditions:
 - Shall not interfere with any emergency exit in violation of FMVSS opening requirements
 - Shall not extend into the passenger area of the vehicle beyond the following dimension:
 - Measuring from the interior surface of the emergency door at the location of the door latch, twelve inches excluding padding.
 - All exposed edges shall be rounded or padded meeting FMVSS 571.302

Violation

- Leaks in the cooling system.
Schools can self-certify the repair of this violation.

Out of Service

- Unsecure or missing bolts, caps or rubber bushings.
 - Leaks pooling onto ground.
 - Leaking into the interior of the bus.
 - No cracks, frays, chunking or tears in the belt.
 - Air Condition/Purification system inoperative.
 - Improper installation of the Air Conditioning unit.
- Schools can self-certify the repair of this OOS violation.**



(K) Defroster.

- (1) Defroster system shall meet or exceed SAE standard J381 performance requirements without use of auxiliary fan.
- (2) The defroster system shall be of sufficient capacity to keep windshield area, left front side driver's window, and service door glass area free of condensation or ice under all possible combinations of pupil load and climatic conditions.
- (3) Defroster system shall be capable of providing at least sixty per cent fresh air.

- (4) Two adjustable six-inch auxiliary fans shielded with small mesh metal or polypropylene guards shall be installed. Only one adjustable six-inch auxiliary fan is required for "Type A" buses.
- (a) Each auxiliary fan(s) shall be controlled individually by a multi-speed switch.
 - (b) The switch shall be located within easy reach of the driver while seated.

Inspection Note

- Defroster and Auxiliary Fans
 - A defroster system is required.

Approved Option

- None

Violation

- Auxiliary fan only operating at one speed.
- Defroster only operating at one speed.

Schools can self-certify the repair of this violation.

Out of Service

- Defroster not operational.
- Auxiliary fans not operational.

Schools can self-certify the repair of this OOS violation.



(L) Drive shaft and differential.

- (1) Drive shafts and universal joints are to be original equipment manufacturer standard.
- (2) Metal drive shaft guards are required for each drive shaft section extending lengthwise under the floor of the passenger compartment to prevent projecting through the floor or dropping to the ground if broken. The drive shaft guard shall be at the end of the shaft which is provided with a sliding connection (spline or other such device) to prevent whipping of the shaft in event of failure thereof or any of its component parts.
- (3) The rear axle ratio shall be compatible with engine, transmission and tire size.

Inspection Note

- Drive-line, Universal Joints
 - No evidence of misalignment or unusual noises.
 - There shall be a drive shaft guard for each section of drive shaft.

Approved Option

- Oil-lubricated wheel bearings
- Pressurized automatic lubrication systems:
 - Such systems shall apply lubrication to specific components at a predetermined mileage interval

Violation

- None

Out of Service

- Missing drive shaft guards.
- Carrier bearings or universal joints with play in excess of manufacturer's specifications.

Pupil Transportation Suspended and decals removed. In-person inspection required



(M) Driver's seat.

- (1) Minimum distance between steering wheel and backrest of driver's seat shall be eleven inches. Driver's seat shall have vertical adjustment of not less than four inches and horizontal adjustment of not less than four inches.
- (2) The driver's seat and driver's area shall have a restraining barrier meeting FMVSS 571.222 positioned immediately behind the driver's area.
- (3) The driver's seat upholstery shall meet FMVSS 571.302 (Flammability of interior materials).
- (4) A "Type II" seat belt is required for the driver. Belts shall be equipped with protective boots of sufficient quality and strength to keep it retracted and off the floor and within easy reach of the driver. Belt shall be adjustable on one side only and keep the driver from sliding sideways under the belt.
- (5) Seating options allowed:
 - (a) Adjustable air driver's seat;
 - (b) Internal heating provided by manufacturer; and
 - (c) Driver alert technology.

Inspection Note

- The base of the seat must be securely attached to metal floor.
- The adjustable seat shall be secure in any position, no movement.
- No broken tubing or protruding pieces of metal around the seat.

- An operational driver's locking type retractor seat belt and upper torso restraint system required.
- Locking retractor belt shall be equipped with protective boot of sufficient strength to keep belt retracted and off floor (On buses bid on or after 01/01/1990).
- Covers, cushions, or back supports must be approved by local school officials. The outside cover shall be of fire retardant material (clearly marked) and be securely attached to the seat.
- All upholstery shall meet FMVSS 571.302 (Flammability).

Approved Option

- Driver seat armrest installed by the manufactory and met FMVSS requirements. *(Updated 8/6/20)*
- **Driver Protective (Hard/Soft) Barrier:**
- The driver protective barrier panel shall be installed directly behind the driver and flush to the outside wall of the bus or at a dimension that will prohibit a passenger from coming in contact with the driver's area. The panel shall be constructed of *either a clear **hard** material compliant with FMVSS 571.302 such as polycarbonate or a soft barrier application of a clear flexible non-flammable material such as polycarbonate or polyvinyl.*
- The end of the (**HARD**) barrier panel exposed to the passenger compartment shall be secured to a padded stanchion extending from the floor to the ceiling. The stanchion shall be attached to the roof bow or a reinforced panel in the ceiling and a solid connection point on the floor. The barrier panel shall be in compliance with FMVSS 571.302 and FMVSS 571.222. ***If a hard barrier is installed, the passenger seat directly behind the driver must be rendered inoperative (this can be accomplished by removing the lower seat cushion) to comply with FMVSS 571.222.***
- Note: If the lower seat cushion is removed, all exposed seat frame must be wrapped in padding in compliance with FMVSS 571.302

A barrier cannot take the place of a manufactured installed seat as it will compromise the floor integrity

- If the lower seat cushion is removed, all exposed seat frame must be wrapped in padding in compliance with FMVSS 571.302
- A barrier cannot take the place of a manufactured installed seat as it will compromise the floor integrity.

Violation

- Frayed seatbelt webbing
 - Armrest that are loose.
 - Driver's seat coverings with tears or cuts that expose the seat foam.
- Schools can self-certify the repair of this violation.**

Out of Service

- Not securely attached to the floor
- Any movement in the seat adjustment, by hand pressure
- Armrest that are missing or broken
- Inoperative or cut seatbelt
- Non-approved seat cushions or back support (Approval letter required)
- Inoperative driver alert technology
- Missing or loose restraining barrier
- Any loose or missing protective barrier/padding
- Failing to render the first seat behind the driver inoperative when a protective barrier has been installed
- Material used that does not meet this standard and/or complies with FMVSS requirements

Schools can self-certify the repair of this OOS violation.



(N) Electrical system.

(1) Alternator.

(a) Minimum of a one hundred forty five ampere alternator on all "Type A" buses.

(b) Minimum of a two hundred ampere alternator on all other buses.

(2) All wiring shall conform to current society of automotive engineer's standards.

Inspection Note

- Alternator must be securely mounted

Approved Option

- Electrical fuses:
 - If a bus is equipped with a fuse box, proper assortment of replacement electrical fuses may be carried.

Violation

- Crack in the alternator bracket.

Schools can self-certify the repair of this violation.

Out of Service

- Alternator or bracket broken, loose or missing bolts.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(O) Emergency equipment.

- (1) All shall be mounted in an easily accessible location.
- (2) Bus shall be equipped with at least one dry-chemical-type fire extinguisher of at least five-pound capacity, 3A - 40 B.C. rating, located outside of the passenger area, mounted in a quick release-type bracket and easily accessible by the driver. The extinguisher shall be equipped with a dial-type graduated gauge, which indicates loss of pressure. Fire extinguisher shall be of the type that permits the dry-chemical base to be refilled by ordinary procedures.
- (3) First aid kits shall be dustproof, plainly labeled, mounted in a location easily accessible to the driver, located outside of the passenger area, and securely mounted in a metal or plastic container.
- (4) A twenty-four unit kit is required for all buses. Note: The first aid kit may be installed at time of manufacture by the manufacturer, installed by dealer, or installed by the owner/operator of the school bus.
- (5) Three triangle reflectors with weighted stands shall be properly encased for easy storage. The triangle reflectors shall meet FMVSS 571.125. The storage container shall be mounted to prevent movement and shall be mounted within easy access of the driver.
- (6) Six thirty-minute fuses are permitted and shall be encased for easy storage. The storage container shall be mounted to prevent movement and within easy access of the driver. The fuses shall not be stored in the passenger area. No spiked fuses are permitted.
- (7) One body fluid kit shall be required. The kit shall contain the following items:
 - (a) Effective chlorine absorbent deodorant.
 - (b) Effective germicidal detergent. If detergent contains alcohol, no more than one fluid ounce is permitted in a single-use disposable container.
 - (c) Single-use, disposable bag.
 - (d) Single-use, disposable scraper.
 - (e) Minimum of one pair of disposable, single-use, effective protective gloves.
 - (f) Effective hand rinse. If hand rinse contains alcohol, no more than one-half fluid ounce is permitted in a single-use disposable container.
 - (g) The body fluid clean-up kit shall be easily accessible to the driver in the area of the first aid kit and shall be securely mounted in a metal or plastic container.
 - (h) If alcohol is included, the body fluid clean-up kit shall not contain more than one and one-half fluid

ounces of alcohol.

Note: The body fluid kit may be installed at time of manufacture, installed by dealer or the owner/operator of the school bus.

Inspection Note

- Emergency equipment shall be securely located outside the passenger area and readily accessible to the driver.
- The equipment shall not interfere with passengers or the operation of the vehicle.
- Three triangle reflectors with weighted stands are required on all school buses.
- A dry chemical type fire extinguisher at least five pounds in capacity is required with a visible gauge and a rating of 10 B.C. prior to 04/01/1978, 20 B.C. to the date of 09/01/1998 and 40 B.C. after 09/01/1998
- Fire extinguisher must have classification and annual inspection tag.
- Visible gauge must show whether extinguisher is pressurized.
- First Aid Kit (*effective prior to July 1, 2019 for all buses*)
 - First aid kit shall be securely mounted and be easily accessible to the driver.
 - The interior of the case shall be clean.
 - All contents in the kit must meet the following requirements:
 - Minimum requirements for less than 50 passengers (16 unit kit).
 - Minimum requirements for 50 or more passengers (24 unit kit).
 - **24 unit kit required on all buses bid/manufactured after July 1, 2019.**
- Body fluid cleanup kit.
 - Aerosol cans are not to be included as part of this kit. Other contents shall meet requirements of applicable Ohio School Bus Construction Standards. The body fluid clean-up kit shall be easily accessible to the driver in the area of the first aid kit, and shall be securely mounted in a plastic or metal container.
- No fussees are allowed on propane buses.

Approved Option

- First Aid (Trauma Kit):
 - Trauma kits may be secured in the driver's area.
 - The trauma kit may include:
 - Tourniquet
 - Bandages
 - Chest Seal
 - Tape
 - Trauma shears
 - Gloves
- Seat belt cutter:
 - Will be stored in the first aid kit or securely mounted to the left of the driver.
- Six (6) Thirty (30) minute fussees (not allowed on propane buses)
- AED (Added 2/20/20)

- Securely mounted within the driver's area and in such a way as to not cause a catch point. If the AED is stored in the bulkhead, a label shall be clearly visible on the door to the compartment. School buses with AEDs installed, the driver must be properly trained in their operation per the manufacturer's specification.

Violation

- Missing items in first aid kit.
- Missing items in body fluid clean up kit.
- Broken reflective triangles.

Schools can self-certify the repair of this violation.

Out of Service

- Fire extinguisher not securely mounted.
- Fire extinguisher missing or missing inspection tag.
- Fire extinguisher with improper rating and/or classification.
- Fire extinguisher expired or not completely charged.
- First aid kit and body fluid kit not securely mounted.
- First aid or body fluid kit(s) missing.
- Missing reflective triangle(s)
- Reflective triangle box not securely mounted.
- Fuses on a propane bus.

Schools can self-certify the repair of this OOS violation.



(P) Emergency exits.

Any installed emergency exit shall comply with the design and performance requirements of FMVSS 571.217 applicable to that type of exit, regardless of whether or not that exit is required by FMVSS 571.217. Further exits are allowed in addition to the minimum required by this rule.

(1) Emergency doors.

- Emergency doors shall meet FMVSS 571.217. An interior handle shall be provided to pull the door shut from the inside, which may be used as a protection against accidental release.
- When the interior handle is not in the position that causes the emergency door to be closed, a continuous warning sound shall be audible at the driver's seating position and in the vicinity of the emergency door, and the dome lights (driver's dome light excluded) shall illuminate with the ignition switch in any position.

- (c) Exterior door handle shall be of permanent hitch-proof design and mounted with enough clearance to permit opening without touching door surface.
 - (d) All emergency door openings shall be completely weather-stripped.
 - (e) There shall be no step-type mechanism in the use of the side emergency door.
 - (f) There shall be a head bumper pad installed on the inside at the top of the emergency exit frame. This pad shall be approximately four inches in width and extend across the entire top of the emergency exit opening and shall meet FMVSS 571.302 for flammability standards of interior materials.
- (2) Rear emergency door.
- (a) On all buses, except rear-engine design, an emergency door shall be located in the rear of the school bus body and centered with respect to the body.
 - (b) Emergency door shall have a minimum horizontal opening of twenty-four inches and a minimum vertical opening of forty-eight inches measured from floor level.
 - (c) Rear emergency door shall be hinged on right side and shall open outward.
 - (d) The rear emergency door shall contain upper and lower glass panels. Glass in emergency door shall provide maximum area of visibility for safe operation of the school bus.
 - (e) The rear emergency door shall have a prop rod/lock out bar.
- (3) Left side emergency door.
- (a) On all rear-engine school buses, a left side emergency door shall be installed.
 - (b) If a door sill or heater line extends above the floor line, a ramp shall be provided covering the area over which a foot must pass when an individual exits through the door.
 - (c) The left side emergency door shall have a prop rod/lock out bar.
- (4) Emergency side window exits.
- (a) Emergency window shall display the words "emergency exit" at the top of, directly above, or at the bottom of the emergency window exit on both the inside and outside of the bus, in a color contrasting the background.
 - (b) Emergency windows, when not fully latched, shall activate a continuous warning sound that shall be audible in driver's compartment and activate all dome lights (driver's dome lights excluded). Warning sound and dome lights shall be operational with the ignition switch in any position.
- (5) Emergency window, rear-engine buses.
- (a) An emergency window shall be installed above the engine compartment.
 - (b) Window shall be hinged from top and provided with a device to ensure against accidental closing when open.
 - (c) Emergency window in rear shall be equipped with a latch on the inside, and also be equipped with a handle of hitch-proof design which will permit opening from the outside.

- (d) Emergency window shall display the words "emergency exit" at the top of or directly above, or at the bottom of the emergency window exit on both the inside and outside of the bus, in a color contrasting the background.
 - (e) Emergency window, when not fully latched, shall activate a continuous warning sound that shall be audible in the driver's compartment and all dome lights shall activate (driver dome lights excluded). Warning sound and dome lights will be operational with the ignition switch in any position.
- (6) Emergency roof exits.
- (a) A continuous warning sound that shall be audible in the driver's compartment and all dome lights shall activate when the hatch is opened in the escape position (driver's dome light excluded). Warning sound and dome lights shall be operational with ignition switch in any position.
 - (b) If a bus is not manufactured with a static vent, the emergency roof exit shall be a static-type with exhaust vent.
- (7) Number of emergency roof exits required.
- (a) One roof hatch is required for a bus with a manufacturer's rated shell capacity of one to forty-five.
 - (b) Two roof hatches are required for a bus with a manufacturer's rated shell capacity of forty-six and above.

Inspection Note

- Reflective tape must be installed along the sides of the bus at the floor line. The marking is required on buses bid or manufactured on or after December 1, 2008
- The emergency door(s) shall be outlined with reflective material as required by FMVSS 571.217 (On buses manufactured on or after 05/02/1994). Shall be yellow in color.
- Emergency window shall bear words "EMERGENCY EXIT" in letters at least two inches high inside the window and in a color contrasting the background. (Applies to buses bid after 01/01/1990).
- Emergency exit windows shall have reflective outlining on the exterior as required by FMVSS 571.217 (On buses manufactured on or after 05/02/1994). Shall be yellow in color.
- Emergency roof exits shall have reflective outlining as required by FMVSS 571.217 (On buses manufactured on or after 05/02/1994). May be white/silver, red or yellow in color.
- No item such as brooms, shovels, etc., shall be permitted in any window or door opening.
- **Emergency Exit Requirements and Federal Motor Vehicle Safety Standard 571.217**
- All school buses bid or if not bid, manufactured after December 1, 2008 shall be equipped with:
 - • Seating Capacity from 1 to 45 – one roof exit
 - • Seating Capacity from 46 and above – two roof exits
- • In addition to the above required roof exits, shall meet Federal Motor Vehicle Safety Standards for emergency exits as noted below.
 - S5.2.3 School buses. Except as provided in S5.2.3.4, each school bus shall comply with S5.2.3.1 through S5.2.3.3.
 - S5.2.3.1. Each school bus shall be equipped with the exits specified in either S5.2.3.1 (a) or S5.2.3.1 (b), chosen at the option of the manufacturer.

- (a) One rear emergency door that opens outward and is hinged on the right side (either side in the case of a bus with a GVWR of 10,000 pounds or less), and the additional exits, if any, specified by Table 1.
- (b) One emergency door on the vehicle's left side that is hinged on its forward side and meets the requirements of S5.2.3.2 (a), and a push-out rear window that provides a minimum opening clearance 41 centimeters high and 122 centimeters wide and meets the requirements of S5.2.3.2 (c), and the additional exits, if any, specified by Table 2.

○ TABLE 1

Seating Capacity	Additional Exits Required*
1-45	None.
46-62	1 left side exit door or 2 windows.
63-70	1 left side exit door or 2 windows, and 1 roof exit.
71 and above.	1 left side exit door or 2 exit windows, and 1 roof exit, and any combination of door, roof, or window such that the total capacity credit specified in Table 3 for these exits, plus 70, is greater than the seating capacity of the bus.
*Side emergency exit doors must meet the requirements of S5.2.3.2 (a), emergency roof exits must meet the requirements of .2.3.2(b), emergency window exits must meet the requirements of S5.2.3.2(c).	

○ TABLE 2

Seating Capacity	Additional Exits Required*
1-57	None.
58-74	1 right side exit door or 2 windows.
75-82	1 right side exit door or 2 windows, and 1 roof exit.
83 and above.	1 right side exit door or 2 windows, and 1 roof exit, and any combination of door, roof, or windows such that the total capacity credit specified in Table 3 for these exits plus 82 is greater than the capacity of the bus.
*Side emergency exit doors must meet the requirements of S5.2.3.2 (a), emergency roof exits must meet the requirements of S5.2.3.2 (b), emergency window exits must meet the requirements of S5.2.3.2(c).	

○ TABLE 3

Exit Type	Capacity Credit
Side Door	16
Window	8
Roof Exit	8

- (c) The area of an opening equipped with a wheelchair lift may be credited toward the required additional exits if it meets the requirements of paragraphs (a) or (b) of S5.2.3.1 and if the lift folds or stows in such a manner that the area is available for use by persons not needing the lift. With the lift in the folded or stowed position, such opening is considered a side emergency exit door.
- S5.2.3.2 All emergency exits required by S5.2.3.1 (a) and S5.2.3.1 (b) shall meet the following criteria:
 - (a) Side emergency exit doors.
 - (1) Each side emergency exit door shall be hinged on its forward side.
 - (2) The first side emergency exit door installed pursuant to Table 1 shall be located on the left side of the bus and as near as practicable to the mid-point of the passenger compartment.
- A second side emergency exit door installed pursuant to Table 1 shall be located on the right side of the bus. In the case of a bus equipped with three side emergency door exits pursuant to Table 1, the third shall be located on the left side of the bus.
- (3) The first side emergency exit door installed pursuant to Table 2 shall be located on the right side of the bus. A second side emergency door exit installed pursuant to Table 2 shall be located on the left side of the

bus. In the case of a bus equipped with three side emergency door exits pursuant to Table 2, the third shall be located on the right side of the bus.

- (4) No two side emergency exit doors shall be located, in whole or in part, within the same post and roof bow panel space.
 - (b) Emergency roof exit.
 - (1) Each emergency roof exit shall be hinged on its forward side, and shall be operable from both inside and outside the vehicle.
 - (2) In a bus equipped with a single emergency roof exit, the exit shall be located as near as practicable to the midpoint of the passenger compartment.
 - (3) In a bus equipped with two emergency roof exits, one shall be located as near as practicable to a point equidistant between the midpoint of the passenger compartment and the foremost limit of the passenger compartment and the other shall be located as near as practicable to a point equidistant between the midpoint of the passenger compartment and the rearmost point of the passenger compartment.
 - (4) In a bus equipped with three or more emergency roof exits, the roof exits shall be installed so that, to the extent practicable, the longitudinal distance between each pair of adjacent roof exits is the same and equal to the distance from the foremost point of the passenger compartment to the foremost roof exit and to the distance from the rearmost point of that compartment to the rearmost roof exit.
 - (5) Except as provided in paragraph (b) (6) of this section, each emergency roof exit shall be installed with its longitudinal centerline coinciding with a longitudinal vertical plane passing through the longitudinal centerline of the school bus.
 - (6) In a bus equipped with two or more emergency roof exits, for each roof exit offset from the longitudinal vertical plane specified in paragraph (b)(5) of this section, there shall be another roof exit offset from that plane an equal distance to the other side.
 - (c) Emergency exit windows. A bus equipped with emergency exit windows shall have an even number of such windows, not counting the push-out rear window required by S5.2.3.1 (b). Any side emergency exit windows shall be evenly divided between the right and left sides of the bus. School buses shall not be equipped with horizontally-sliding emergency exit windows. Further, except for buses equipped with rear push-out emergency exit windows in accordance with S5.2.3.1 (b), school buses shall not be equipped with both sliding and push-out emergency exit windows.
- S5.2.3.3 The engine starting system of a bus shall not operate if any emergency exit is locked from either inside or outside the bus. For purposes of this requirement, "locked" means that the release mechanism cannot be activated and the exit opened by a person at the exit without a special device such as a key or special information such as a combination.
- S5.2.3.4 Each school bus manufactured before September 1, 1994 may, at the manufacturer's option, comply with either S5.2.3.4 (a) or S5.2.3.4 (b) instead of S5.2.3.1 through S5.2.3.3.
 - (a) Each bus shall be equipped with one rear emergency door that opens outward and is hinged on the right side (either side in the case of a bus with a GVWR of 4,536 kilograms or less); or
 - (b) Each bus shall be equipped with one emergency door on the vehicle's left side that is hinged on its forward side and meets the requirements of S5.2.3.2 (a), and a push-out rear window that provides a minimum opening clearance 41 centimeters high and 122 centimeters wide and meets the requirements of S5.2.3.2 (c).

Approved Option

- Ramp device:
 - May be installed to load and unload students.

- Ramps shall be of nonskid construction. Ramp shall be of weight and design, and equipped with handle(s), to permit one person to put ramp in place and return it to its storage place. Ramp storage must protect ramp from dirt and weather.
 - *The construction and installation of the ramp device shall not interfere with the construction standards of the bus and cannot alter the structural design without manufacture approval.*
- Rear emergency door lock. Bus engine will not start when door is locked. (Starter Interlock)

Violation

- Damaged rubber seals or gaskets.
 - Damaged, faded, peeling, or cracked retroreflective tape.
- Schools can self-certify the repair of this violation.**

Out of Service

- Damaged, faded, peeling, cracked, or missing retroreflective tape in excess of 25% of each required section per emergency exit
 - Missing required rubber seals or gaskets
 - Missing or illegible instructions.
 - Not marked inside and outside (Includes reflective markings if required.)
 - Required dome lights not activating with the warning device (installed in the driver's compartment and at the emergency door on all buses and activated after the door or handle is moved, this applies to buses bid after 09/01/1998)
 - Wrong retroreflective material or color
- Schools can self-certify the repair of the above violations.**

- Door or positive locking device inoperable (to include strap in buses manufactured before 5/2/94)
- Emergency door fails to open to a minimum width (90 degrees) without catching or binding
- Any inoperable continuous warning device
- Locking devices, except approved systems that also prevent the engine from starting.
- ANY window missing operating instructions (Instructions must be clearly visible and the wording must be present in its entirety)
- Obstructions reducing size of window or door opening. (Seat backs excluded if opening meets FMVSS standards and School Bus Construction Standards)

Pupil Transportation Suspended and decals removed. In-person inspection required



(Q) Engine speed governor

An engine speed governor shall be installed on all buses. Setting shall comply with manufacturer's maximum recommended governed speed. A revolution per minute limiter in lieu of the engine speed governor is acceptable. Note: Recommended governed speed will reference maximum speed limits established in section 4511.21 of the Revised Code.

Inspection Note

- None

Approved Option

- Cruise control:
 - Installed by school bus manufacturer or authorized dealer.

Violation

- None

Out of Service

- **Cruise control inoperative**
Schools can self-certify the repair of this OOS violation.



(R) Exhaust system.

- (1) Exhaust pipe, muffler or a diesel particulate filter in lieu of the muffler, and tailpipe shall be outside bus body and attached to chassis.
- (2) The tailpipe and after-treatment system shall be constructed of a corrosion-resistant tubing material at least equal in strength and durability to 16-gauge steel tubing of equal diameter.
- (3) The tailpipe may be flush with, or shall not extend more than two inches beyond, the perimeter of the body for side-exit pipe or the bumper for rear-exit pipe. The exhaust shall be designed such that exhaust

gas will not be trapped under the body of the bus.

- (4) The tailpipe shall exit to the left or right of the emergency exit door in the rear of the vehicle to the left side of the bus, in front of or behind the rear drive axle, or the tailpipe may extend through the bumper. The tailpipe shall not exit beneath any fuel filler location, emergency door, or lift door.
- (5) The exhaust system shall be insulated in a manner to prevent any damage to any fuel system component.
- (6) The design of the after-treatment systems shall not allow active (non-manual) regeneration of the particulate filter during the loading and unloading of passengers. Manual regeneration systems will be designed such that unintentional operation will not occur.
- (7) Right side discharge exhaust systems are not permitted.

Inspection Note

- When checking exhaust system, do not stop flow of exhaust through the pipe by placing an obstruction in the tailpipe.
- Exhaust system shall be insulated from fuel tank and fuel tank connections on gasoline engines.
- Exhaust system shall be in good condition including hangers and clamps. No holes, cracks, splits or gaps permitted in system that would allow exhaust gases to escape.
- Allow engine to reach normal operating temperature to seal the O-ring on the manifold pipe before checking the system.
- One 1/8" drainage hole may (not required) be drilled in the bottom of the muffler.
- Tail pipe diameter shall not be reduced in size when leaving the muffler.
- On rear discharge exhaust, the tail pipe shall extend to the edge of the bumper but not more than two inch beyond bumper. The tailpipe may pass through the bumper.
- Optional left side exit must be at least three inches (3") and not more than eighteen inches (18") in front of the rear wheel and bent downward at a 45 degree angle six inches (6") from the end of the pipe. Tail pipe shall extend to edge of body.
- No more than 2 feet of flexible pipe for gas and diesel engines is permitted to replace OEM application.
- No part of the exhaust system shall be so located as would be likely to result in burning, charring or damaging the electrical wiring, the fuel supply, or any combustible part of the bus.
- Exhaust Manifolds
 - Shall be no cracks or leaks.

Approved Option

- None

Violation

- More than two (2) feet of flexible pipe used to replace OEM application.
Schools can self-certify the repair of this violation.

Out of Service

- Exhaust system discharges directly below any emergency window and does not meet construction standards for the placement of a rear discharge.
- Exhaust rear discharge more than two (2) inch past rear bumper.
- Left side discharge not within manual required distance of three (3) inches but not more than eighteen (18) inches in front of rear wheel.
- Missing insulation around fuel tanks and fittings on gas-powered systems.
- Missing or broken hangers or clamps not attached to exhaust system.
- Mud flap coming into contact with exhaust.
- No holes, cracks, splits, gaps, or leaks permitted in system that would allow exhaust gases to escape.
- Parts of the system located which would likely result in burning, charring or damaging the electrical wiring, fuel supply or any combustible part of the bus.
- Diesel particulate filter not securely mounted.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(S) For after treatment systems that require diesel exhaust fluid (DEF).

An optional left side discharge exhaust system is permitted. If a left side discharge, the tailpipe shall be located at least three inches and not more than eighteen inches in front of the rear wheel opening and angled down at a forty-five degree angle six inches from the end of the pipe. The discharge shall extend to the edge of the body.

- (1) The composition of the DEF must comply with ISO 22241-1.
- (2) The DEF supply tank shall be sized to meet a minimum ratio of three diesel fills to one DEF fill.

Inspection Note

- Must have cap on the fill port.
- Tank must be securely mounted and free of leaks.
- A diesel exhaust fluid (DEF) gauge is required for diesel engines

Approved Option

- None
-

Violation

- None

Out of Service

- Left side discharge not within manual required distance of three (3) inches but not more than eighteen (18) inches in front of rear wheel.
- Leaks
- Missing cap on fill port.

Schools can self-certify the repair of this OOS violation.



(T) Fenders.

- (1) Total spread at outer edges of front fenders, measured at fender line, shall exceed total spread of front tires when front wheels are in straight ahead position.
- (2) Front fenders shall be braced and free from any body attachment. Trailing edge of front fender shall extend to bottom of front body section. Fender extensions are acceptable.
- (3) Fiberglass replacement fenders and cowl pieces are permitted.

Inspection Note

- None

Approved Option

- Fiberglass replacement fenders are allowed.
- Rubber fender extensions.

Violation

- No looseness in fender or extension attachment points.
- Schools can self-certify the repair of this violation.

Out of Service

- Missing or damaged fenders or extensions.
- Schools can self-certify the repair of this OOS violation.**



(U) Floor covering.

- (1) All floor covering shall have a calculated burn rate of 0.1 mm per minute or less using the test methods, procedures and formulas listed in FMVSS 571.302, be permanently bonded to the floor, and must not crack or loose its adhesive power when vehicle is subjected to sudden changes in temperature. Bonding or adhesive material shall be waterproof and recommended by the manufacturer of the floor covering material.
- (2) Under seat areas shall have a fire-resistant floor covering, having a minimum overall thickness of one-eighth inch. The entire joint between the floor covering and the wall of the school bus body shall be covered with a fitted, rust-free metal or composite molding or reformed interior panel.
- (3) Driver's compartment floor area shall be of the same quality material as the under seat floor covering. The driver's compartment floor covering shall be attached to the floor.

Exception - On "Type A" buses, the driver's compartment floor area shall be manufacturer's standard. It shall be attached to the floor.
- (4) Center aisle covering shall be fire-resistant, non-skid and wear-resistant. If ribbed, minimum thickness shall be one hundred eighty-seven thousandths inch measured from the top of the ribs.
- (5) Metal, composite molding, bonding or non-metal welding shall cover all floor-covering joints.
- (6) Molding around the wheel-well and floor covering shall be provided to seal floor covering with the wheel well.
- (7) A fuel access plate shall be installed for easy access to fuel gauge mechanism and shall be installed above the regular floor covering when possible. The access plate shall not be undercoated. Panel shall be sealed to prevent any leakage or moisture. Diamond plate may be used as an access panel. ("Type A" buses and alternative fuel systems excluded)
- (8) Floor covering on top step landing shall be one piece.
- (9) A plywood floor shall be applied on top of the steel floor. Floor covering shall be applied on top of the plywood. Plywood shall be five-eighths inch five-ply type CD exterior grade. Plywood shall extend to fire-wall and under the driver's seat. Plywood shall be sanded and vacuumed before covering is applied. Waterproof sealing material shall be applied to seams in the sections of plywood floor. Plywood shall be four feet by eight feet sections, pieced only as necessary. Waterproof sealing applied on top of the plywood to hold the floor covering is considered as one method of sealing the seams in the plywood floor.
- (10) Equivalent material applied to top of steel floor may be used in lieu of plywood, provided it has equal or greater insulation R-value, sound abatement, deterioration-resistant and moisture-resistant properties.
- (11) If alternate materials are used in lieu of plywood, manufacturer must certify that FMVSS 571.222 and 571.302 are met.

Inspection Note

- Shall be sound in construction and meet applicable Ohio School Bus Construction Standards.
- Brake and clutch boots shall not be worn. If the size of the opening is larger than required for component, such as emergency brake or gearshift, boot shall be used to prevent dirt or contaminants from entering the passenger compartment.
- Spot floor covering is permitted where needed to cover worn areas. One-piece floor covering is not required to run full length of the bus. Loose pieces of carpet or other covering shall not be permitted.
- Floor covering shall cover all floor base except where inspection plates are used and exposed.

Approved Option

- None

Violation

- Missing screw in floor trim that does not cause trip hazard.
Schools can self-certify the repair of this violation.

Out of Service

- Bumps or waves that could create a trip hazard (plywood needs to be solid).
- Unsecured trim strips that have sharp edges or create a trip hazard.
- Unsecured aisle trim that have sharp edges or create a trip hazard.
- Unsecured stairwell treads (No trip points).
- Holes in flooring that exposed wood sub floor.
- Unauthorized carpet or other coverings on floor.
- Missing non-skid or wear resistant in aisle way.

Schools can self-certify the repair of this violation.



(V) Frame.

- (1) Frame shall be designed to correspond with or exceed standard practice performance criteria for trucks of same general load specifications used for highway service.
- (2) Chassis frame shall extend to rear edge of rear body cross member.
- (3) Frame side members shall be one-piece construction with the following exceptions:

- (a) Extension of these members shall be designed, furnished, and guaranteed by chassis or body manufacturer. Installation shall be guaranteed by the company installing the extension. Extension of frame lengths shall not be for the purpose of extending wheel base.
- (b) No holes shall be permitted in the chassis rails except those drilled at the chassis plant or authorized by the frame manufacturer.
- (4) Welding to chassis rails is permitted only when guaranteed by the company making the modifications and authorized by the frame manufacturer. The Ohio state highway patrol shall be notified after the repair and authorized inspection have been completed and prior to the school bus being operated with students on board.

Inspection Note

- No cracked, broken, loose, sagging frame members or separation from the main frame.
- Body and Mounting Pads
 - Body shall be securely fastened (J-Bolts, or spring clamps).
 - Mounting pads or insulating material shall be held in place between floor sills and chassis frame and must be of good quality.

Approved Option

- None

Violation

- One missing body pad/isolator. (Adjacent not missing)
- Cracks less than one (1) inch in length on bottom rail flange.
- Cracks less than one and one-half inches or longer in frame side rail web, which is directed towards the bottom flange.

Schools can self-certify the repair of this violation.

Out of Service

- Loose or missing cross members, bolts, body tie downs.
- More than one adjacent body pad missing.
- Any cracked, loose, sagging, or broken frame side rail permitting shifting of the body onto moving parts or other condition indicating an imminent collapse of the frame.
- Any cracked, lose or broken frame member adversely affecting support of functional components such as steering gear, engine, transmission, body parts, or suspension.
- One inch or longer crack in side rail bottom flange.

- Metal floor, including stairwell, not solid (no holes caused by rust or damage.)
- Cracks one and one-half inches or longer in frame side rail web, which is directed towards the bottom flange.
- Any condition that caused the body or frame to be in contact with a tire or any part of the wheel assemblies.
- Any frame modification/repair not certified/approved by the frame manufacturer.
- Any floor support rusted through at any location.
- Any floor support cracked at a body mount location.
- Any welds that are not authorized by the frame manufacturer.
- Any non-factory or authorized holes in chassis rails.

Pupil Transportation Suspended and decals removed. In-person inspection required



(W) Fuel fill opening

Fuel fill opening shall be in the body and shall be equipped with a hinged cover held closed by a spring or other conveniently operated device. The mechanism that holds this cover closed shall be sufficient to keep it closed under severe operating conditions. "Type B, C, and D" buses may be provided without a door only if a fuel bucket/spill containment is provided. Exception: On "Type A" buses, the fuel fill opening shall be manufacturer's standard.

Inspection Note

- Hinged or locking fuel door over fill port when required.
- Filler hose shall be in good condition.

Approved Option

- None

Violation

- Inoperative spring or lock on fuel door.
Schools can self-certify the repair of this violation.

Out of Service

- Missing fuel door as required.
- Missing fuel bucket/spill containment on Type B, C, or D buses with no fuel door.
Schools can self-certify the repair of this OOS violation.



(X) Fuel System

All fuel storage specifications shall conform to FMVSS 571.301 (fuel system integrity). In addition:

- (1) Fuel tank shall have a minimum capacity of twenty-five gallons, for buses up to and including a shell capacity of fifty-nine passengers. School buses of sixty passengers and above shall have a minimum capacity of sixty gallons. It shall be filled and vented outside of the body. Construction will prevent the spillage or drainage of fuel on any part of the exhaust system.
- (2) Fuel filter with replaceable element shall be installed.
- (3) In addition to the fuel filter, all diesel-fueled engines shall have a water separator installed between fuel tank and the injector pumps. The fuel/water separator may be incorporated with the fuel filter but the fuel/water separator shall not serve as the fuel filter.
- (4) Drain plug of at least one-fourth inch pipe thread shall be located in center of the bottom of gas and diesel fuel tanks.

Inspection Note

- Fuel pump, fuel lines and filter system - no leaks, check with engine running.
- Exhaust system shall be insulated from fuel tank and fuel tank connections on gasoline engines.
- Fittings securely connected.
- Fuel cage attached securely around the fuel tank.
- Fuel cage must be free of rust holes.
- Tank shall be shielded when any part of the exhaust system is adjacent to the tank on gasoline, propane or natural gas powered buses. No shield is required on diesel-powered buses.
- COMPRESSED NATURAL GAS (CNG)
 - The focus of our inspection procedure is on safety rather than installation procedure for the conversion. The inspecting officer should point out and require corrections in installations that are safety related.
- General
 - The system shall be maintained to the manufacturer's specifications.
 - All school buses equipped with dual fuel equipment shall be operated in both the natural gas and gasoline mode during inspection.
 - All devices used in the CNG system shall meet the appropriate ratings.
 - The CNG system consists of high-pressure equipment: storage cylinders or tanks, fuel lines, regulator(s), solenoids, mixer, check valve, switches or levers, and fuel gauge.
 - School bus is to have appropriate signs or decals inside and outside to identify operation by natural gas.
 - Equipment is to be securely mounted and appropriately protected.
- Fuel Cylinders
 - Visually check for:
 - Protective paint coating.

- Mountings for looseness, signs of movement, and corrosion.
- Looseness or wear of bolts and brackets.
- Proper label “CNG USE ONLY”; or “FOR CNG ONLY” (decals or stencil).
- DOT markings (2400 PSI).
- Valve guards or expanded steel grating.
- Minimum of four inches (4”) clearance from tail pipe.
- Minimum of eight (8”) clearance from muffler or manifold exhaust.
- Clearance: cylinder shall not hang below the centerline of the drive shaft.
- Fuel Lines
 - Visually check for: Signs of movement, vibration, looseness, wear, corrosion or stress.
 - Grommets around the fuel lines where passing through frame.
 - Mountings with rubberized clamps at no more than twenty-four inch (24”) intervals. Check all fittings with soap and water solution or electronic natural gas detector.
- HYBRID
 - Our inspection procedure should focus on safety rather than installation procedure for the conversion. The inspecting officer should point out and require corrections in installations that are safety related.
 - No inspection will occur if the unit is plugged into a charging unit or located in a moist or wet environment.
 - The inspector needs to be aware of the volts, amps and kilowatts this system contains whether or not it is plugged into a charging unit.
 - Before the inspection starts, ensure:
 - The driver interface panel switch is in the off position.
 - The service disconnect switch in the battery box is in the off position.
 - The service disconnect switch in each battery pack is in the off position.
- General
 - The system shall be maintained to the manufacturer’s specifications.
 - All school buses equipped with dual fuel equipment shall be operated in both the diesel and electric mode during inspection.
 - All high voltage cables shall be orange colored and isolated from the chassis.
 - All high voltage components shall have warning labels.
 - There shall be a service disconnect switch on each battery pack.
 - The hybrid system shall have an on/off switch within the driver’s reach.
 - The hybrid system turns off when the key is turned off.
 - All battery packs shall be installed in a heavy-duty crash protection cage.
 - The vehicle must continue to be operable even when the hybrid system is off.
- Grommets on the bottom of the Control Electronics Unit (CEU) shall be in place and in good shape.
- All wires shall be properly insulated as they pass through any metal surrounding.
- Ensure that all panel lights are operational and functioning correctly. The lights must be color specific: Green – ready, Yellow – charging, Amber – system fault.
- Check the hybrid system coolant level in the reservoir under the hood. Inspect the hose connections for leaks or damage.
 - The charge cable and its connector must be inspected for damage.
 - Inspect the pins of the bus side receptacle for damage or foreign material.
- Propane Fuel System
 - Our inspection procedure focus is on safety rather than installation procedure for the conversion. The inspecting officer should point out and require corrections in installations that are safety related.
- General
 - The system shall be maintained to the manufacturer’s specifications.

- All school buses equipped with dual fuel carburetor equipment using liquefied petroleum or natural gas shall be operated in the L.P.G., natural gas and gasoline mode.
- All devices used in the propane system subject to container pressure shall have a design pressure of at least 250 PSI. The inspecting officer should visually check for markings (except carburetor).
- Visually check for grommets around all electrical wiring and control cables passing through metal.
- Visually check for fusing of wiring under dashboard.
- Visually check fittings for signs of wear, leaking, tightness or undue stress (Oil residue around fitting often indicates leaks. Use soap leak detector to check if necessary).
- Tanks
 - Visually check the manual 80% liquid level gauge and float gauge. Require replacement if not working properly. Liquid level gauge should open and close using finger pressure – check using gloves.
 - Check data plate on tank. Tanks shall be marked. Markings shall be on a metal nameplate attached to the container so located as to remain visible after the container is installed. The data plate shall include:
 - Service for which the container is designed. (Liquefied petroleum gas or Propane)
 - Name and address of container supplier or trade name of container, water capacity of container in pounds or US gallons.
 - Design pressure in PSI
 - The wording, “This container shall not contain a product having a vapor pressure in excess of PSI at 100 degrees F.”
 - Outside service area in square feet.
 - Relief valve of 312 PSI working pressure after 03/23/1981.
 - Visually check tank mounting for looseness, signs of movement, bolts, nuts, brackets, and corrosion.
 - Visually check road clearance of tank, it should not be lower than step well.
 - Check for shield if tank or any of its fixed parts are within six (6) inches of exhaust system. The brackets and bolts are not to be considered a part of the tank. Exhaust system shall not be supported by tank bracket. The shield may be closer than six (6) inches.
 - Check relief vent piping. Must be mounted securely enough to withstand 312 PSI discharge (Top vent is permissible).
- Fuel Lines
 - Check fuel lines for security, strain, wear, rubbing, vibration and grommets or bulkhead fittings.
 - Check fuel line routing.
 - Fuel lines shall be secured at approximately two-foot intervals.
 - Fuel lines routed through structural members shall be protected by grommets or bulkhead fittings. Bulkhead fittings are preferred.
 - Fuel lines shall be stainless steel, wire braid reinforced and labeled at ten-foot intervals either Liquefied Petroleum Gas or Propane Gas, 350 PSI working pressure, 1750 PSI burst pressure.
 - Automatic lock-off solenoid valve should be checked by converting from one fuel to the other with the dashboard mounted while the engine is running. Hydrostatic relief valve must be installed in fuel line between tank and fuel filter lock off.
- Fueling Compartment
 - Remote fill type shall be securely locked by key.
 - Direct fill shall be securely locked - key not necessary.
 - Fuel inlet line fitting shall have a cap covering.
- Relief Valve
 - Relief valve should be located on same side of bus as the fuel supply tank. The vent line should be no longer than two feet and discharged towards the ground at a 45-degree angle away from the bus.

- Note: Due to different type vent installations, the inspecting officer must be flexible – safety is the key. A 45-degree angle is preferred for the relief valve vent.
- Automatic Shut Off
 - Check for operation-designed to prevent flow of gasoline when the ignition is in the off position or the bus is operating on propane.
- Other
 - Make a visual check to make sure the lock-off valve has not been omitted on the gasoline supply line. (Dual fuel only)
 - Make sure the electronic solenoid is not wired direct. It is required to pass through a fuse.
 - Visually check for gasoline leaks at the carburetor.

Approved Option

- None

Violation

- Damage to fuel cage not into contact with fuel tank.
 - Fuel cap loose
- Schools can self-certify the repair of this violation.**

Out of Service

- Any leak in any part of fuel system.
- Fuel cap missing or defective.
- Fuel tanks damaged.
- Fuel tanks not properly mounted.
- Fuel tanks fail to meet FMVSS 571.301.
- Fuel cage with rust hole (must be repaired to manufactures specifications).
- Insulation missing around exhaust near fuel tank or connections on gasoline engines.
- Missing or damaged fuel cage around tank or contacting tank.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(Y) Glass.

(1) All glass shall be manufactured and maintained as follows:

Glass table

Location	Glass type	Rating
Service door	Laminated	AS 1 or AS 2

Glass table

Emergency door	Tempered or laminated	AS 2 or AS 3
Emergency window	Tempered or laminated	AS 2 or AS 3
Windshield	Laminated	AS 1
Driver's side glass	Laminated	AS 1 or AS 2
All other glass in passenger's area	Tempered or laminated	AS 2 or AS 3

Exception- On "Type A" buses the driver's door glass shall be manufacturer's standard.

(2) All other glass not noted in table shall meet FMVSS 571.205 glazing materials.

Inspection Note

- Glass shall be free of chips or cracks that could create a hazard or impair the driver's vision.
 - Example: Windshield wiper blade scratches.
- Discoloration on windshield/windows shall not be more than one and one-half inch and shall not obstruct driver's view to mirrors or roadway.
- The glass must be marked and meet FMVSS standard 571.205 for glazing.
- Effective 11/1/2006, all glass must meet appropriate construction standards that apply to the year of manufacture of the bus.
- Frames around glass shall be secure.
- Cracks in the windows shall not be over one (1) inch in length.
- No broken or cracked glass permitted in the entrance door.

Approved Option

- Prism:
 - Mounted to the upper window of the rear emergency door, designed to give the driver a wide-angle view of the area immediately behind the school bus.
- Tinted glass pursuant to section 4513.241 of the Revised Code and in compliance with FMVSS 571.205.

Violation

- Discoloration of any glass
- Chips or cracks

Schools can self-certify the repair of this violation.

Out of Service

- Improperly secured or mounted
- Any defect over one inch in length (does not apply to windshield)
- Chips or cracks that create a hazard or impairs the driver's vision.
- Discoloration on windshield/windows shall not obstruct driver's view to pupils, mirrors, or roadway.
- Improper glass for its location (tempered/laminated).

Schools can self-certify the repair of this OOS violation.



(Z) Heaters.

- (1) Heating systems shall provide evenly distributed heat throughout the bus body and provide defrosting for windshield, driver's left side window and service door.
- (2) Buses shall be equipped with heaters capable of maintaining inside temperature of fifty degrees Fahrenheit using an ambient temperature of zero degrees Fahrenheit as measured per SAE standard J2233.
- (3) Buses shall be equipped with a front heater.
- (4) Heaters shall display the nameplate rating in accordance with the standard code for testing and rating automotive bus hot water heater and ventilating equipment.
- (5) All heaters shall be independently controlled by multi-speed switches.
- (6) All hot water lines inside the driver /passenger's area shall be enclosed.
- (7) Heater cores and fans shall be completely encased, but designed to permit servicing heating assembly by removing all or part of the case.
- (8) Heater hose installation in the engine compartment shall include two shut-off valves able to shut off coolant completely when necessary.
 - (a) One shut-off valve shall be mounted between the water pump inlet and heater hose connection.
 - (b) One shut-off valve shall be mounted between the engine block and the heater hose connection.
- (9) There shall be a heater flow-regulating valve installed for convenient operation when the driver is in a normal seated position.

Inspection Note

- Check heaters one at a time with waterlines open.
- Heater cores shall be clean with no leaks or obstructions to block flow of air or hit heater fan.
- All heaters must be operational.
- An additional heater(s) may be installed in the rear portion of the bus behind the wheel well. Auxiliary fuel-fired heaters are permitted.

Approved Option

- Auxiliary fuel-fired heaters:
 - These auxiliary heaters should use the same fuel as the engine is designed to use. These heaters can be either direct hot air systems or connected to the engine's coolant system. When connected to the engine, the heaters can be used to preheat the engine for starting, or to preheat and add supplementary heat to the bus's heating system. These heaters must be installed pursuant to manufacturer's recommendations so as not to exhaust in a manner which will endanger passengers. The heater should not require adjustment if fuel is being changed from "Diesel-1" to "Diesel- 2" or a blend, and should be equipped with low voltage protection. These heaters must meet all applicable federal and society of automotive engineers' tests.

Violation

- Independent switches not working at all speeds.
- One heater inoperable in the passenger compartment.

Schools can self-certify the repair of this violation.

Out of Service

- Coolant leak into the interior of the bus.
- Any heater inoperable in the driver compartment.
- More than one heater inoperable in the passenger compartment.
- Heater switches missing for each independent heater.

Schools can self-certify the repair of this OOS violation.



(AA) Hoods.

"Type D" buses with an interior engine cover shall have a device or design to secure the engine cover when in the open position, or shall be fully removable.

"Type C" buses shall have a design for the hood that minimizes the risk of accidental closing.

Inspection Note

- Hood assemblies should operate properly.
- When equipped with a hinge spring or bar and latch assembly, the hood shall stay in the raised position.
- No frayed, broken or damaged components on hood assemblies.

- Grille color should be maintained as manufactured. Chrome or corrosion resistant materials are permitted. All rear engine grilles shall be national school bus yellow. Hoods requiring refinishing shall be painted with non-reflective National School Bus Yellow or flat black paint.

Approved Option

- None

Violation

- Any loose components in hood assembly. (i.e. Splash shields, loose hood latch etc...)
Schools can self-certify the repair of this violation.

Out of Service

- Safety latch is broken, and hood will not lock into the open position.
 - Any frayed, broken or damaged components on hood assemblies.
 - Hood assembly inoperable.
- Schools can self-certify the repair of this OOS violation.**



(BB) Horns.

Buses shall be equipped with a horn(s) of standard make capable of producing complex sound in band of audio frequencies from two hundred fifty to two thousand hertz and having total sound level of one hundred to one hundred twenty decibels within these frequency limits when measured at fifty feet from the vehicle. Air horns are permitted.

Inspection Note

- Horns shall be operative, and capable of emitting a complex sound that is audible, under normal conditions from a distance of not less than two hundred feet.
- The horn button must be located in the center of the steering wheel and clearly marked as such.

Approved Option

- None

Violation

- Horn control not clearly marked on steering wheel
Schools can self-certify the repair of this violation.



Out of Service

- Horn button not located as OEM (center of steering wheel).
- Horn not producing a complex sound.
Schools can self-certify the repair of this OOS violation.



(CC) Electronic stability control

Electronic stability control shall be equipped on:

- (1) Air brake equipped school buses with a build date of August 1, 2019 or later.
- (2) All school buses with a build date of August 1, 2020 or later.

Inspection Note

- None

Approved Option

- None

Violation

- None

Out of Service

- **Light indicating the system is inoperative.**
Schools can self-certify the repair of this OOS violation.



(DD) Instruments and instrument panel.

- (1) Chassis shall be equipped with the following instruments and gauges. Lights in lieu of gauges are not acceptable.
 - (a) Speedometer.
 - (b) Odometer which will show accrued mileage up to nine hundred ninety-nine thousand nine hundred ninety-nine.
 - (c) A voltmeter showing the battery voltage. The voltmeter shall be off when the ignition switch is in the off position.
 - (d) Oil pressure gauge.
 - (e) Engine temperature gauge.
 - (f) Fuel gauge.
 - (g) Air brake systems shall have independent gauges indicating air pressure in the primary and secondary air tanks.
 - (h) Buses may be equipped with a tachometer.
 - (i) A diesel exhaust fluid (DEF) gauge is required for diesel engines.
 - (2) All buses shall have a warning system consisting of a light and optional audible warning to notify driver of low engine oil pressure, low engine coolant level, and coolant overheating. System shall not automatically shut off engine, unless warning signals have been displayed to the driver and the engine has derated for a period of time.
 - (3) The visibility and illumination of the instruments must comply with FMVSS 571.101.
-

Inspection Note

- Dashboard Instrument Panel
 - All gauges shall be operative and clearly visible to driver in a seated position.
 - Unused gauges shall be painted black.
 - Indicator lights are required to show operation of turn signals and the four-way hazard flashers.
 - Master pilot light to show that the eight-way warning system is operable.
 - Dashboard instruments shall be illuminated.
- Control Panel Switches
 - All switches shall be marked.
 - Any unused switch must be removed or painted black without markings.
 - A red colored or red outlined emergency override switch shall be installed.
 - This shall be the only red colored or red outlined switch on the switch panel. (Effective 12/1/2008)
 - Shall have a red or green master pilot as determined by year manufactured.
- Other
 - All school buses which transport special need pupils shall be equipped with two-way communication devices.

Approved Option

- Audio Devices:
 - AM/FM radios, cassette, compact disc players must be permanently mounted, either OEM or automotive style aftermarket. If aftermarket, must be installed per manufacturers instruction
- Clocks:
 - Either OEM or automotive style aftermarket. If aftermarket, must be installed per manufacturers specifications.
- Electronic Pre-Trip Recorders:
 - The installation of sensors on the bus is allowed if:
 - Does not interfere with the safe operation of the bus.
 - Does not cover any required markings.
 - No larger than two (2) inches by two (2) inches in size.
- Engine hour meter
- Engine monitoring systems:
 - These systems shall warn the driver, by use of a light or audible signal that the engine is in need of attention. Such systems shall not automatically shut off the engine.
- Power Outlet:
 - 12-volt dc covered power outlet in driver's area.
 - USB power connection in the driver area and the passenger compartment so long as not to interfere with the requirements of FMVSS 222. (Added 2/20/20)
- Power ventilator
- Programmable engine idle time limit.
- Public address system:
 - An outside speaker is permitted. If an outside speaker is used, it shall be yellow or gray in color.
- Student tracking device (RFID) readers:
 - RFID readers will be mounted to the right of the driver/controls and at the top of the stairwell.
 - Cannot require driver interaction and must be free of catch points.
 - Computer based systems may display photos of the students.
 - Computer based systems cannot require driver interaction while loading and unloading students.
- Tachograph
- Two-way radios:
 - Either OEM or aftermarket. If aftermarket, must be installed per manufacturers specifications.
- Alarm systems:
 - Audible warning alarm may be located on the firewall or the front of the school bus, to work in conjunction with the warning light system. May do one or both:
 - The audible warning will sound to alert pedestrians that the bus is about to move. The audible warning will sound after the entrance door has been closed. The alarm shall be installed to manufacturer's recommendations.
 - The audible warning will sound to alert pedestrians that the bus is approaching the bus stop. The warning shall activate with the cycling of the amber warning lights. The audible warning will stop

when the entrance door has been opened. The alarm shall be installed to manufacturer's recommendations.

- No automated warning sounds or announcements shall be permitted when the entrance door is open and students are boarding or leaving the school bus.
 - Alarm system may be installed which requires the driver to go the rear of the bus to deactivate. An on-board internal alarm on the system may also be used. Directions for disarming these types of alarms shall be displayed on the front bulkhead in the driver's area.
 - Drawstring alarm system in the entrance door.
 - Driver Assist Equipment:
 - Communication Equipment: Wireless web connectivity equipment may be installed on a school bus.
 - GPS:
 - GPS tracking and telemetry equipment may be installed on a school bus that provides a record of the vehicle's position and operations. The device shall not require any driver intervention to operate while the vehicle is in motion.
 - GPS routing assistance equipment may be used, but does not replace the driver's responsibility to study the route prior to travel, and the school must provide all required elements of Ohio school bus route sheets as mandated by ODE.
 - Interior/exterior Cameras:
 - Display(s) shall be in the rear view mirror.
 - The camera(s) will be mounted in such a way that they will not interfere with the safe operation of the bus, cause vision obstruction for the driver, or cause harm to any passenger.
 - Camera(s) that provide a picture or video of a red light violations shall be used in conjunction with driver testimony in accordance with all applicable sections of the Ohio Revised Code. Refer to 4511.751 of the Ohio Revised Code.
 - Exterior modular video cameras must have a permanent mounting source that allows the system to lock securely onto the vehicle. The mounting location cannot interfere with the safe operation of the bus. Exposed connection wires must be secured to the side of the bus and cannot exceed 4 feet in length. (*Added 06/15/2020*)
 - Monitoring Devices:
 - The use of electronic vehicle monitoring devices is allowed. Some examples would be, vehicle information, detect speed, lane departure, following distance, brake assist, and identify persons and or objects in and around the school bus.
 - All alerts from these devices may be visual, audible, and or haptic warnings that provide tactile alerts (e.g. a driver's seat or steering wheel vibrates).
 - ***Equipment shall be installed so that it does not interfere with the driver's ability to operate the OEM controls of the vehicle, and shall be completely isolated from the vehicle's electrical system by means of a fuse or breaker. All devices shall be mounted in such a way that they will not interfere with the safe operation of the bus, cause vision obstruction for the driver, or cause harm to any passenger. These devices do not negate the responsibility of the driver to remain in the driver's seat and at the controls at all times. Prior to the use of any new equipment, school bus operators should be trained in their use as outlined by the manufactures.***
-

Violation

- Any switch not marked clearly.
- Any missing switch cover.
- Any multiple function switch that does not operate in all functions.
- Back lighting of switches inoperable.

Schools can self-certify the repair of this violation.

Out of Service

- Master pilot light inoperative.
- Any inoperative gauge and/or switch.
- Non-illuminated dashboard.
- Improper colored switch.
- Any missing gauge required by the Construction Standards.

Schools can self-certify the repair of this OOS violation.



(EE) Insulation.

- (1) Bus body shall be fully insulated in the roof and all body panels to deaden sound, reduce vibrations, and reduce heat transfer. One-inch minimum thickness, in addition to the usual sprayed on material, shall be a fiberglass or equal material and fire-resistant.
- (2) Fire resistant fiberglass insulation or equivalent material of at least one-inch thickness shall be added in the roof, in addition to the usual sprayed on material.

Inspection Note

- None

Approved Option

Insulation:

- Equivalent non-wood material may be applied on top of the steel floor in lieu of plywood provided the material has equal or greater insulation R-value. The material shall be moisture resistant. Prior to installation, the installer/manufacture of the product must provide in writing that the material meets

the appropriate construction standards for insulation. All optional insulation products shall be approved by the Ohio School Bus Construction Standards Advisory Committee before installation.

- Sound abatement package:
 - Overall length of the bus.

Violation

- None

Out of Service

- Missing insulation as required by Construction Standards.
- Any unauthorized insulation material.

Schools can self-certify the repair of this OOS violation.



(FF) Interior.

- (1) Interior of the school bus shall be free of all projections.
- (2) All school buses shall require inner lining on ceiling and walls and shall include acoustical (perforated) headlining in the driver area.
- (3) The interior sound level at the driver's seating position shall not exceed ninety decibels when measured in accordance with test procedures found in 49 CFR 393.94(C).
- (4) Cameras and other monitoring devices may be installed inside the bus as long as they do not intrude into the head impact zone. For "Type C and D" buses, cameras may be installed in the ceiling as long as they are above the window line. Cameras mounted on the sidewall cannot protrude more than three inches. All camera mounting shall meet FMVSS 571.222.
- (5) Padded/foam covered panels may be installed on the interior walls to prevent head injuries by self-abusive pupils.
 - (a) The padded panels shall be constructed of the same materials used in the construction of the bus seats.
 - (b) The padded panel may cover the window.
 - (c) The padded panel shall be attached to the sidewall of the bus.
 - (d) The padded panels shall not obstruct any portion of an emergency window or exit.
 - (e) Materials used in the padded panel shall comply with FMVSS 571.302.

Inspection Note

- Ceiling
 - Protruding or sharp edges.
- Unauthorized racks, hangars or other items attached to the ceiling.
- May display rules specifically described in ODE's Ohio Pupil Transportation Manual. The display shall be placed on the bulkhead and may not be larger than 8.5x11. It will not cause any view obstruction or cover any safety instructions

Approved Option

- None

Violation

- Torn or damaged padding on panels.
- Any rules displayed larger than 8.5x11, causing view obstructions or covering any instructions.
Schools can self-certify the repair of this violation.

Out of Service

- Any unauthorized objects hanging or protruding into the passenger compartment.
- Cameras not mounted in accordance with Construction Standards.
- Padded panel obstructing any emergency exit.

Schools can self-certify the repair of this OOS violation.



(GG) Inside body height

Inside body height shall be a minimum of seventy-two inches measured from floor to ceiling at any point on longitudinal centerline from the beginning of the aisle of the passenger compartment to the end of the aisle.

For "Type A" buses, the inside body height shall be a minimum of sixty-eight inches measured from floor to ceiling at any point on longitudinal center line from the beginning of the aisle of the passenger compartment to the end of the aisle.

Inside height measurement does not apply to air conditioning equipment.

Inspection Note

- None

Approved Option

- None

Violation

- None

Out of Service

- Inside height does not meet Construction Standards.
Schools can self-certify the repair of this OOS violation.



(HH) Lamps, signals and backing warning device.

- (1) All lamps herein listed and their installation shall conform to current standards and recommendations of the society of automotive engineers and meet FMVSS 571.108.
- (2) Construction of components:
 - (a) Directional signal, stop light, taillight, marker light, clearance light, identification light, back up light and reflector lenses shall meet applicable society of automotive engineers standards.
 - (b) All exterior lamp sockets shall be zinc-plated or chromated steel, or other suitable non-corrosive materials such as plastic or stainless steel.
 - (c) Alternately flashing warning signal lamps, body-mounted directional signals and stop lamps shall be grounded.
- (3) When the ignition switch is in the off position, the hazard warning, stop light, marker lights, headlamps, passenger dome lights and emergency exit audible warnings shall be operational.
- (4) The service door step-well light shall automatically operate when the headlights are in operation and be activated by a switch controlled by the service door.
- (5) High beams are to be controlled by a column mounted dimmer switch.
- (6) A maximum of two fog lamps may be installed. Fog lamps shall be amber in color.
- (7) Daytime running lamps are required.

- (8) One white strobe light shall be installed on the roof of the bus. The strobe light shall cycle sixty to two-hundred forty flashes per minute. The roof strobe light shall be installed on the top of the bus toward the rear as close to the center of the bus as is practical.
- (9) Interior dome lights.
- (a) Passenger dome lights when activated shall adequately and uniformly illuminate aisle way to three to four foot-candles.
 - (b) All dome lights shall be equipped with clear/white shatterproof lenses.
 - (c) Passenger dome lights shall be controlled by switches in the driver's console. Passenger zones may be switched separately. Power shall be provided when the ignition switch is in the "On" or "Accessory" position and shall be on a protected circuit.
 - (d) A separate driver dome light shall be provided and controlled by a single switch in the driver's console.
- (10) Directional signals.
- (a) Side and rear directional signals shall be wired to operate properly with the front directional signals.
 - (b) Manufacturer shall install required signal lamps to the directional signal control switch so all directional signal lamps shall be operative. The directional signal system shall be installed on an integral part of the hazard warning signal switch activated by an independent switch furnished.
 - (c) Direction signals, when illuminated, shall be amber in color and shall meet society of automotive engineers' specifications.
 - (d) Rear directional signals shall have a minimum of thirty-eight square inches of illuminated surface each. The rear directional signals shall be identical in type, shape, size, and location.
- (11) Backing warning devices.
- (a) Two back up lights are required and shall be mounted on or below the belt line on the school bus body. Back up lights shall conform to FMVSS 571.108.
 - (b) All school buses shall be equipped with an audible electrical warning device, automatically actuated when the bus is in reverse gear. Device shall be one hundred seven decibels or more, meeting SAE standard 1994. Device shall be installed in an area on or behind the rear axle. A variable volume sounding device ranging from eighty-seven to one hundred twelve decibels may be used, maintaining a minimum of five decibels above the ambient noise level. Audible electric warning devices shall meet FMVSS 571.112.
- (12) Stop/tail lights.
- (a) Each bus shall have two combination stop/tail lamps as required in FMVSS 571.108. These two lamps shall be identical in type, shape, and size.
 - (b) In addition to the two stop/tail lamps required by FMVSS 571.108, each bus shall be equipped with two combination stop/tail lamps with a minimum illuminated surface area of thirty-eight square inches, emitting red light plainly visible from a distance of five hundred feet to the rear. These lamps shall be as high as practical but below the window line and spaced as far apart laterally as practicable, but not less than three feet. Measurements shall be taken from lamp centers. These

additional two lamps shall be identical in type, shape, and size.

- (13) A white light shall be installed to illuminate the area on the body near the left lower brake/tail lamp to illuminate the state identification number. This light may be incorporated into the lower left brake/tail lamp.

This light may be incorporated into the lower left brake/tail lamp.

- (14) All school bus body lamps and reflectors shall comply with FMVSS 571.108.

Reflectors shall not be combined with any other lamp or items of associated equipment. Exception-front amber reflectors may be incorporated into a front lamp.

- (15) All marker, clearance and identity lamps shall conform to society of automotive engineer's standards for the type of lamp. These lamps shall be activated by the chassis headlight switch.

(II) Alternately flashing warning signal lamps.

- (1) Each school bus shall be equipped with a system of four red signal lamps and four amber signal lamps. Both red and amber lamps shall be installed in accordance with FMVSS 571.108 and the SAE standard J887. The four red signal lamps shall be identical in type, shape, and size.

(a) There shall be a system in place to allow the deactivation of the amber signal lamps without the need to open the service door or placing the ignition switch in the off position.

(b) These lamps shall alternately flash at a designated rate from sixty to one hundred twenty cycles per minute.

- (2) Operation of alternately flashing warning signal lamps, stop signal arm and optional crossing control arm.

(a) Power for these devices shall be provided when the ignition switch is in the on position. An optional master switch may be installed for these devices. If installed, a green pilot light shall illuminate to indicate the system is ready for operation.

(b) With the service door closed and the manual momentary (amber) start switch activated and released, the amber pilot light and amber warning lamps shall flash.

(c) When the service door is moved toward the open position, the amber pilot light and the amber warning lamps shall turn off and the red pilot light and red warning lamps shall flash.

(d) The stop signal arm and, if installed, the crossing control arm shall automatically extend when the red warning lamps flash. The stop arm signal lamps shall flash when extended.

(e) When the service door is closed, the red warning lights shall deactivate the stop signal arm and, if installed, crossing control arm shall retract.

(f) With the service door open and the manual momentary (amber) start switch activated and released, the red pilot light and the red warning lamps shall flash and the stop signal arm and, if equipped, the crossing control arm shall extend. The stop signal arm lamps shall flash when extended.

(g) The service door switch that activates the red warning lamps shall be located in a position by a cover or guard that will prevent the switch from being activated or deactivated by persons boarding or leaving the bus.

(h) An emergency override system for activating the red warning lamps and extending the stop signal arm shall be installed. This emergency override system shall be operational with the ignition switch in any position.

(i) A red colored or red outlined emergency override switch shall be installed. This switch shall be marked with the words "Emergency warning lights" (abbreviation is acceptable). This shall be the only red colored or red outlined switch on the switch panel.

(ii) When the emergency override system is activated, the red pilot light and the red warning lamps shall flash and the stop signal arm shall extend with the door in any position.

(A) The stop signal arm lamps shall flash when extended.

(iii) Power for the system shall be on a protected circuit.

(3) Hoods may be installed above the lamps. If installed, all the lamps shall have hoods.

(4) Eight lamp warning system.

(a) LED "strobe like" effects may be used in the eight lamp warning system. All lamps shall conform to FMVSS 571.108.

(b) All eight amber and red lamps must alternate between left and right at a rate of sixty to one-hundred twenty cycles per minutes.

(c) The "strobe" effect must appear as a flash of varying intensity and not as separate flashes.

(d) All the warning lamps, amber and red, must "strobe" in the same pattern. The same pattern is defined as the same number of flashes per lamp before the system alternates to the other side.

Inspection Note

- Directional signals shall be amber in color and may be with or without arrows.
- Directional signals must be securely mounted (front, rear and side)
 - Lens shall not be cracked or broken
- Lamp shall flash not less than 60 or more than 120 times per minute with the engine operating under normal conditions.
- Interior dome lights and emergency audible warnings must be operational with the key in any position after 9/1/1998.
- All lamps shall be visible from five hundred feet distance on a clear day.
- Turn signals shall be self-canceling.
- Step well lamp
 - Step well lamp shall light automatically when marker lights are on and the service door is open.
- Four-way emergency hazard switch shall be installed with the directional signals and shall override the directional signals when activated.
- Stop and Tail Lamps
 - Must be red in color
 - Tail lamps to be operated in connection with headlamp switch.
- Stop lamps must be operative with brake pedal

- Back-up Lamps
 - Optional flashing “backing” light box shall be located on the left rear of bus as high as possible under the left rear window. If installed, the optional light shall be mounted in contact with the bus body panel.
 - The lamps shall be controlled by an automatic switch on the reverse gear on school buses manufactured after 01/01/2006.
 - If controlled by a manual switch, an indicator light is required when back-up lights are in use.
 - Backing lights shall be mounted on the rear of bus no higher than the stoplights.
- Additional backing lights may be mounted in compliance with guidelines established under “optional equipment”.
- Flashing Warning signal lamp (Eight-way Pick-up lamps)
 - Stop Signal Arm is required on buses manufactured after 05/01/1979.
 - Yellow flashers are required on buses manufactured after 04/01/1978.
 - With the master switch on (when required), service door closed and engine running, activate the sequence switch. The amber lights shall start to flash.
 - The stop arm, when activated, shall extend to 90 degrees from the body of the bus. The stop arm lights shall flash on an alternating pattern.
- Roof mounted white strobe light required on all buses after July 1, 2019.
 - Strobe light must have separate and independent manually operated control switch.
 - Strobe light must be white in color when illuminated.
 - Strobe light must project a flashing beam signal throughout 360 degrees on the horizontal plane passing through the center of the light source.
 - The flash rate when observed from a fixed position shall be between 60 and 240 flashes per minute
- Required Reflectors
 - 2 Amber – On each side as far to the front as practicable (not less than 15”, nor more than 60” in height)
 - 2 Red – On each side as far to the rear as practicable (not less than 15”, nor more than 60” in height)
 - 2 Red – On the rear, at the same height, symmetrically about the vertical centerline, as far apart as practicable.
- Special Light
 - Lights shall be placed inside the bus to sufficiently illuminate lift area and shall be activated when the door is open.
- Headlamp Assembly
 - Two headlamps required with upper and lower beams. Four headlamps are permissible.
 - Headlights shall be properly aimed. No broken or cracked lens.
 - Parking lights shall be wired to operate on the headlamp switch.

**** Any LED fixture (lamp) will be considered inoperable if 50% or more of the diodes are inoperable. Any LED fixtures (lamps) with 25 to 49% inoperable diodes will be considered a violation. ****

Approved Option

- Eight lamp warning system:
 - LED “strobe like” effects may be used in the eight lamp warning system. All lamps shall conform to Federal Motor Vehicle Safety Standards 571.108 S5.1.4, SAE J887 and Ohio School Bus Construction Standards. All eight yellow and red lamps must alternate between left and right at a rate between sixty and one hundred twenty cycles per minute.
 - The “strobe” effect must appear as a flash of varying intensity and not as separate flashes.
 - All the warning lamps, amber and red, must “strobe” in the same pattern. The same pattern is defined as the same number of flashes per lamp before the system alternates to the other side.
- Lights/Lamps:
 - Supplemental warning lights:
 - Grill mounted - Four LED lights may be installed on the front grill, the flash pattern/speed and color will match the required overhead warning lights.
 - The upper lights will be mounted as least 12” and no more than 16” from the center of the bus. The lower lights will be mounted above the bumper and at least 4” from the headlight assembly.
 - The lights must be capable of two colors (amber and red) in the same fixture.
 - The lights shall be: 4” and no more than 6” in width / 1” and no more than 2” in height
 - The focus/aim shall not be directed into oncoming lanes of travel.
 - Bumper mounted - Two LED lights may be installed just above the front and rear bumper the flash pattern/speed and color will match the required overhead warning lights.
 - The front lights will be mounted above the bumper and at least 4” from the headlight assembly. The rear lights will be mounted as least 12” and no more than 16” from the edge of the bus.
 - The lights must be capable of two colors (amber and red) in the same fixture.
 - The lights shall be: 4” and no more than 6” in width / 1” and no more than 2” in height
 - The focus/aim shall not be directed into oncoming lanes of travel.
- The supplemental warning light approved combination:
 - Grill mount
 - Grill mount with High Visibility on the rear
 - Bumper mount (this option cannot be used with the rear high visibility tape)
- Ground-wash / pedestrian lights:
 - Forward facing undercarriage lights shall activate with the Red (may activate with the Amber) warning lights and stay on until the service door closes.
 - Rear facing undercarriage lights will activate only when the bus is placed in reverse.
 - All lights will be installed pointing towards the ground, providing a ground wash effect no less than 15 feet from the bus.
 - The light fixture shall not be visible to approaching traffic.
 - All undercarriage lights will activate when the Ground-Wash switch is activated. This switch shall be located near service door controls and clearly mark “Ground Wash”
 - As of July 31, 2018, the two surface or flush mounted on rear of body behind the axle must be shielded from the driver view. These lights may only work when the bus is in reverse.
- Lamp monitoring system.
- Red emergency exit lights to mark inside emergency doors/windows.
- Fog lamps. A maximum of two-fog lamps amber in color. Daytime running lights.
- Lighted “School Bus” signs:
 - Shall emit a background color that matches the required National School Bus yellow.

- The fixture shall be permanently mounted and of sufficient area allowing for the required lettering and meet all retro reflector requirements.
- Illumination will operate with the bus ignition system.
- The frame cannot interfere with the operation of the eight way pickup lights nor the required ID marker lights.
- If installed, this device must be mounted securely to the front and rear of the bus and in the position as required in section KK (1) of this document.
- Lighted stop signal arm:
 - Shall emit a background color that matches the required red and white portions of the stop arm.
 - The fixture shall be permanently mounted and of sufficient area allowing for the required lettering and meet all retro reflector requirements.
 - Illumination will operate with the stop arm and override functions of the school bus pickup light requirements.
 - The illuminated stop arm will still require alternate flashing upper and lower warning lights where mandated by FMVSS.
- White strobe light. One allowed, between sixty (60) to two hundred forty (240) flashes per minute. Strobe light shall be installed on the top center of the bus toward the rear.
- A twenty-candlepower under-hood light.
- Light emitting diode lamps and halogen lamps, which meet applicable requirements of FMVSS 571.108.
- Additional lighting as approved by the Americans with Disabilities Act and installed by the school bus manufacturer.
- Headlight Shields:
 - Installed to reduce glare from crossover mirrors.
 - The shields (eyebrows) shall not cover, reduce the effectiveness or interfere with the headlight.
- Headlight Warning Tone:
 - An audible tone or buzzer will make the driver aware that the headlights are still on. This would occur when the key is in the off position or removed from the ignition.
- Body mounted service door step-well light shall automatically operate when the headlights are in operation and be activated by a switch controlled by the service door.

Violation

- Turn signals that fail to self-cancel
- Lamps not visible from five hundred feet.
- Clearance, ID, or registration lamp inoperative
- Any required tail, brake, reverse, or dome lamp inoperative

- Faded, or discolored lenses or reflector
- Mismatched lamp fixtures
- LED fixtures (lamps) with 25 to 49% inoperable diodes

Schools can self-certify the repair of this violation.

Out of Service

- Lens shall not be broken, cracked or missing.
- Lamp fixture wrong color for the location
- Lamp fixtures not securely mounted
- Missing required reflector
- Mismatched light fixtures
- Master pilot light inoperative

Schools can self-certify the repair of this violation.

- Any eight-way, headlight, directional signal, stop arm, interior or exterior step well or roof mounted strobe lamp inoperative.
- More than 25 % of any one group: tail, brake, reverse, or dome lamp inoperative.
- Lighted "School Bus" or stop signal arm inoperative.
- Inoperative audible back up alarm
- Emergency hazard lights not operating as required
- Eight-way (Student Pick-up Lights)
 - Inoperative 8-Way System (Must work through both the sequence switch and the over-ride or fail-safe switch.

Pupil Transportation Suspended and decals removed. In-person inspection required.

***** Any LED fixture (lamp) will be considered inoperable if 50% or more of the diodes are inoperable. *****



(JJ) Length of a school bus

Length of a school bus shall not exceed forty-five feet, excluding safety devices/bumpers.

Inspection Note

- None

Approved Option

- None

Violation

- None

Out of Service

- Length does not meet Construction Standards.
Pupil Transportation Suspended and decals removed. In-person inspection required.



(KK) Markings

Body shall display the following identification (in black lettering):

- (1) "School Bus" at least eight inches high on both the front and rear of the body. Lettering shall be placed as high as possible without impairment of visibility. The "School Bus" marking shall be on a background of retro reflective national school bus yellow material. The material shall be the same quality and type as Federal Motor Vehicle Safety Standards requires for the marking of emergency exits.
- (2) "Stop" on the rear of the bus in letters not less than ten inches in height centered on the metal panel of the rear emergency door or for rear engine buses, centered on the rear of the bus.
- (3) Name of the private school, school district, school bus owner or operator shall appear on both sides of the vehicle at the belt line and be at least five inches high.
- (4) The county in which the private school or the school district resides shall appear on both sides of the vehicle in a minimum of three-inch letters, unless the name of the city or exempted village appears as a part of the school district or private school name.
- (5) When required by FMCSR 390.21, the ownership of the school bus (company name, city, state, and USDOT number as required by FMCSR 390.21) shall appear on both sides of the bus. The right side markings shall be to the rear of the service door below the floor rub rail. The left side markings shall be in the area of the stop signal arm below the floor rub rail. The markings shall be in two-inch high letters. Only the information required by FMCSR 390.21 shall be displayed.
- (6) Local school bus numbers approximately five inches high and shall be located as follows:

- (a) On body near the service door.
 - (b) On the body, near the right lower tail light.
 - (c) On the left side of the body in the area of the driver's window.
 - (d) Visible to the front, in an area designated by the operator.
- (7) Buses shall be marked with reflectorized material as follows: All reflectorized material shall be a retro reflective material that meets FMVSS 517.217 for marking of emergency exits. In addition:
- (a) All reflective material shall be able to retain at least fifty per cent of the reflective values for a minimum of seven years.
 - (b) All reflective material shall be warranted against peeling, cracking, separation and lifting due to weather conditions, pressure and mechanical washing for a minimum of seven years.
 - (c) Reflective yellow material two inches in width (plus/minus one fourth inch) shall be applied to both corners of the rear of the bus and extend from the bumper vertically up to the top of the rear windows.
 - (d) All emergency doors and windows shall be outlined in yellow only. Emergency roof exits shall be outlined in either red, yellow or white around the outside perimeter with reflective material as required by FMVSS 571.217.
 - (e) Both sides of the bus body shall be marked with retro reflective national school bus yellow material, extending the length of the body (passenger area) and located at approximately the floor line. This marking shall be two inches in width and run parallel with the rub rails.
 - (f) Three seven by fourteen-inch wide pieces of white to white-silver in color reflective material shall be applied to the front and rear of the bus to accommodate the state identification and local bus numbers as follows:
 - (i) State identification number on the front of the vehicle shall be placed on a seven by fourteen-inch piece of reflective material which shall be applied and centered on the front bumper. If the bumper is manufactured with the holes in the center for two hooks, the seven by fourteen-inch piece of material may be located on the driver's side of the bumper. If the bumper is less than six inches in height, a seven by fourteen-inch plate will be permanently attached to the bumper to accommodate the seven by fourteen-inch reflective material.
 - (ii) In the rear, the state identification number and the local number shall be placed on individual seven by fourteen-inch pieces of reflective material which shall be applied and centered on the flat surface near the left and right lower taillights as the bus body design will allow.
- (8) Additional markings are permitted as follows and are optional:
- (a) Vinyl stick-on lettering in lieu of painted-on letters, either on original equipment or as replacement letters.
 - (b) Maximum of two American flags, overall size of each decal shall not exceed six inches by eleven inches, shall not interfere with required markings and shall not obstruct the view of the driver.
 - (c) Buses used for transporting special needs may display two universal handicap emblems. The emblems shall be reflectorized white on blue located on the front and rear bumpers.

(d) Route number or marker bracket beside entrance door.

(e) Optional roof ID numbers, if used, shall be black in color and must measure eighteen inches tall by ten inches wide with a brush stroke of three inches.

Inspection Note

- All numbers shall be not less than six inches high and each stroke shall be not less than 9/16 inches in width.
- As of 09/01/1998, the ID numbers must be placed on a reflective background.
- “SCHOOL BUS” shall not be less than eight inches (8”) high, located above windshield and above rear emergency door or exit (Section 4511.77 of the Ohio Revised Code).
- “SCHOOL BUS” must be placed on a reflective background after 12/01/2009.
- No other markings, lettering, symbols, bumper stickers, window decals or decorations are authorized on or in the school bus except the School Safety Zone decal and authorized optional decals and lettering. (School bus company logo on mud flaps permitted with no advertisement.)
- School Safety Zone Decal shall be displayed to the left of the service door just above the seat level rub rail. Shall be placed as close as possible to the service door as the bus design will allow.
- **(Required as of 9/1/1998)** Reflective yellow material two inches in width (plus/minus one fourth inch) shall be applied to both corners of the rear of the bus and extend from the bumper vertically up to the top of the rear windows.
- **(Required after 12/1/2008)** Both sides of the bus body shall be marked with retro reflective national school bus yellow material, extending the length of the body (passenger area) and located at approximately the floor line. This marking shall be two inches in width and run parallel with the rub rails.
- Ownership of vehicle, two inches at service door. (Optional)
 - Operating instructions shall be lettered or decaled at the emergency window in compliance with FMVSS 571.217.
- Decals:
 - Decals stating “Powered by Compressed Natural Gas”, with black lettering on a white background, shall be affixed to the school bus body within two inches (2”) of the fueling opening or on fueling opening door, under the hood, and on rear bumper curbside.
 - Cylinder I.D. data.
 - Instructions for mechanics in engine compartment.
- Decals Stating “Powered by Propane”
 - Decals shall be affixed to school bus body within two inches (2”) of the fueling opening or on fueling opening door, under hood, and on rear bumper, curbside. Black lettering shall state, “POWERED BY PROPANE”, with a green background.

Approved Option

- Retroreflective markings:
 - Rear “High Visibility” markings.

- The rear portion of the school bus may be marked from just above the bumper to the window line. The word “STOP” will be placed over the top of the High Visibility markings.
 - All markings will be retroreflective tape six inches in width set at a forty-five degree angle pointing to the top of the school bus.
 - Only fluorescent yellow/green and fluorescent orange will be used in an alternating pattern.
- All required retroreflective markings shall remain outlining the bus and the emergency door / window (depending on bus type).
- Optional Decal
 - 6” X 8” Magnetic decal with white background and the image of an animal. The decal shall be displayed to the left of the pickup door.
- “Reflective Stop”
 - on the rear of the bus in black letters not less than ten inches in height with red reflective material, meeting FMVSS 517.217 in between the black letters. Black letters shall have a brush stroke of one-half inches and placed on the metal panel of the rear emergency door, or for rear engine buses centered on the rear of the bus. (*Added 10/28/2022*) Example:



Violation

- Faded, peeling, or cracked black lettering
 - Missing local bus number
 - Extended STOP sign faded
 - Retroreflective material missing, faded, peeling, or cracked
- Schools can self-certify the repair of this violation.**

Out of Service

- “SCHOOL BUS” lettering not in compliance or missing.
- “STOP” lettering not in compliance or missing.
- Retroreflective markings missing more than 25% of the total length required for that section.
- Extended STOP sign improperly marked or unreadable.
- Emergency exits not marked
- Wrong retroreflective material or color
- Missing or wrong bus registration
- School Safety Zone Decal missing or not legible.
- Obscured required markings.

Schools can self-certify the repair of this violation.



(LL) Mirrors.

- (1) The buses shall be equipped with mirrors meeting the requirements of FMVSS 571.111 for school buses.
- (2) Interior rear view mirror shall be a minimum of six by thirty inches. Exception: "Type A" - Six by sixteen

inches.

- (3) All exterior mirrors shall be heated and fully adjustable.
- (4) Mirror assemblies shall be warranted one hundred per cent replacement coverage for thirty-six months against rust, and corrosion, and against any reduction in clarity of view due to discoloration or other deterioration of the lens.

Inspection Note

- Driver shall have an unobstructed view of all exterior and interior mirrors.
- All mirrors shall be fully adjustable and securely mounted to reduce vibration.
- No cracks, breaks, or discoloration that causes view obstructions are permitted as viewed from the driver's seated position.

Approved Option

- Interior observation mirror.
 - One may be mounted at the rear of the school bus above the emergency door. This mirror must be made of shatterproof high-stress Plexiglas or equivalent. The edges of mirror must be protected with heavy vinyl coating. This mirror shall not exceed eighteen inches by twenty-four inches and shall have dual-mounting brackets.
- Remote-controlled mirrors. Must meet FMVSS 571.111 for school buses.
- These mirrors must be controlled from the driver compartment and may include the day/night option.

Violation

- Any cracks, breaks, or discoloration on the mirror.
 - Damaged protective vinyl coating around mirror.
- Schools can self-certify the repair of this violation.**

Out of Service

- Not securely mounted to eliminate vibrations.
- Not in compliance with Construction Standards and FMVSS.
- Cracks, breaks, or discoloration that cause view obstructions.
- Heated mirror not operational.
- Rear view or Interior observation mirror improper size.
- Inoperable remote control mirrors.

- Missing protective coating around mirror.

Schools can self-certify the repair of this OOS violation.



(MM) Mounting of body on chassis.

- (1) Isolators shall be placed between the frame and body main cross-sill and intermediate members. The isolators shall be at least one-fourth inch thick and shall be attached to chassis frame or body members in a fashion to prevent the isolators from shifting, separating or displacement of the isolators under severe operating conditions.
- (2) Bus body shall be attached to chassis frame in such a manner as to prevent shifting or separation of the body from the chassis under severe operating conditions.
- (3) Body front shall be attached and sealed to the chassis cowl in such a manner as to prevent entry of moisture.

Inspection Note

- Body shall be securely fastened (J-Bolts, or spring clamps).
- Mounting pads or insulating material shall be held in place between floor sills and chassis frame and must be of good quality.

Approved Option

- None

Violation

- Any body pad missing.
A school can self-certify the repair of this violation.

Out of Service

- Any loose or missing body tie-down (J-Bolts or spring clamps).
- Any two (2) adjacent body pads missing.
Pupil Transportation Suspended and decals removed. In-person inspection required.



(NN) Mud flaps

All buses shall be equipped with mud flaps at all wheel positions. The mud flaps shall be installed as close as practical to the wheel. May use a system for suppressing flying spray on a wet surface. Such system may consist of filament type, which is installed around the fender wheels. A full width mud flap or a full-width filament type plastic skirt may be placed at the rear wheels. May utilize rubber fender extensions. Length shall be in accordance with section 5577.11 of the Revised Code.

Inspection Note

- None

Approved Option

- Mud Flaps/Fender Moldings:
 - A system for suppressing flying spray on a wet surface. Such a system may consist of filament-type, which is installed around the fender wheels.
 - A full width mud flap or a full width filament type plastic skirt may be placed at the rear wheels.
 - Rubber fender extensions

Violation

- Torn
 - Missing or not secured front mud flaps
- Schools can self-certify the repair of this violation.**

Out of Service

- Missing or not secured rear mud flaps
 - Does not meet 5577.11 ORC
- School can self-certify the repair of this violation.**



(OO) Noise suppression switch.

- (1) Shall be installed within easy reach of the driver in a seated position.
- (2) Switch shall be an on/off type.
- (3) Shall deactivate factory-installed devices that produce noise. (Exception - devices installed in "Type A" buses during the manufacture of the chassis/cowl).
 - (a) AM/FM radios
 - (b) Heaters
 - (c) Air conditioner fans
 - (d) Fans
 - (e) Defrosters
- (4) This switch shall not deactivate safety systems, such as windshield wipers, lighting systems or two-way communication systems.

Inspection Note

- None

Approved Option

- None

Violation

- Improper or missing switch marking.
School can self-certify the repair of this violation.

Out of Service

- Inoperative Noise suppression switch.
- Switch overrides safety systems (such as windshield wipers, lighting systems or two-way communication systems).
- No operational switch or system installed.
Pupil Transportation Suspended and decals removed. In-person inspection required.



(PP) Openings

Openings created in mounting of bus body to chassis shall be sealed by manufacturer to prevent entrance of gases, dust or moisture into passenger and driver's compartments. All openings made by the manufacturer in the floorboard and firewall shall be sealed by the manufacturer to prevent gases from entering the driver's compartment.

Inspection Note

- Holes through the firewall are permitted so wiring and various body components may enter the passenger compartment. Unused holes shall be plugged.
- If diameter of hole or opening is larger than required for the component or wiring, fire resistant material such as plastic putty, grommets, or metal shall be used to prevent air, or contaminants from entering the passenger compartment.

Approved Option

- None

Violation

- Any crack in the firewall.
A school can self-certify the repair of this violation.

Out of Service

- Unused holes not plugged.
- Any hole allowing fumes into the passenger compartment.
A school can self-certify the repair of this OOS violation.



(QQ) Paint standard.

- (1) Paint finish coats to bus body, hood, cowl and all attaching sheet metal and fiberglass parts shall be warranted for sixty months or one-hundred thousand miles whichever comes first, one hundred per cent parts and labor, for adhesion and color retention.
- (2) Paint finish to bus body, hood, cowl, and all attaching sheet metal and fiberglass parts shall be applied for a total dry thickness at a minimum of one and eight tenths mils over all painted surfaces.
- (3) Body exterior.

All exterior body and chassis sheet metal including fiberglass shall be painted with polyurethane paint or equivalent.
- (4) All interior panels, walls, and roof surfaces shall be painted. Finished metal/plastic may be unpainted.

Inspection Note

- Hoods requiring refinishing shall be painted with non-reflective National School Bus Yellow or flat black paint.
- *Normal usage and age of bus shall be taken into consideration with regards to paint condition.*

Approved Option

- Paint trim:
 - *This option is no longer in effect as of January 1, 2007.*
Window sash, window posts and window trim may be black in color. Any bus manufactured prior to January 1, 2007, with this option is allowed to continue to be painted as from the manufacturer. This option may not be added to any bus, if the option was not applied at time of manufacture.

Violation

- Damaged, faded, peeling, or cracked
A school can self-certify the repair of this violation.

Out of Service

- Paint color not in compliance with 4511.77 of the Ohio revised code.

A school can self-certify the repair of this OOS violation.



(RR) Passenger seats.

- (1) All seating and restraining barrier design and construction must meet the provisions of FMVSS 571.222. The top surface of the restraining barriers shall be the same height as the top surfaces of the seat backs
- (2) All seats shall have a minimum depth of fifteen inches.
- (3) Equipment installed above the seating area must comply with head impact zone requirements found in FMVSS 571.222.
- (4) All school buses equipped with attachment points, securement devices (seatbelts), and/or wheelchair securement systems shall also be equipped with a durable webbing cutter having a full width handgrip and protected blade. The cutter must be appropriately stored in the driver's compartment to the left of the driver. This equipment may be excluded from the manufacturer's bid and purchased separately.
- (5) Seat construction.
 - (a) Seat, seat back cushion, seat bottom and restraining barrier shall be covered with flame-barrier fire-retardant seating material. Such material must pass the "National School Transportation Specifications and Procedures" school bus seat upholstery "Fire Block" test.
 - (i) The flame will not spread to seat back in front of the fire.
 - (ii) The flames on the rear seat will self-extinguish.
 - (iii) The flame-barrier, fire retardant seating material will successfully prevent the underlying padding material from being exposed to the flames.
 - (b) All seat backs and restraining barriers shall be covered with energy-absorbing padding material as required by FMVSS 571.222.

Inspection Note

- Passenger Seats and Stanchions
 - Seat backs and cushions shall be firmly attached to the frame, and must be checked to make sure they are secure.
 - Metal seat frames - seat covering shall have no sharp edges protruding.
 - Any kit designed to repair seats equal to or better than original equipment is acceptable. Tape shall not be used as a seat repair.
 - Seat frame shall be securely fastened to the floor and/or side mounting rail. Some footpads may have an extra hole without a fastener.

- Ensure that the bottom seat cushion is secured.
- All types of buses bid after 01/01/1991 shall have a full barrier on both sides that is compliant with FMVSS 571.222.
- Stanchions shall be padded to within at least three inches of the bus ceiling and floor.
- On Type “A” buses, wheelchair positions and fastening devices are not permitted immediately adjacent to the lift entrance in order to have easy access in case of emergency.
- Safety belts are required for all seating positions on school buses with a GVWR of 10,000 lbs. or less.
- Child seats shall not block the emergency exit opening.
- Seating Arrangements
 - Flexibility in seat spacing to accommodate special devices shall be permitted due to the constant changing of passenger requirements.
 - Effective 03/01/1994, there shall be no passenger seats installed directly across the aisle way from the lift mechanism.
 - No mobile seating devices shall be secured which blocks access to the lift door or emergency exit on buses manufactured on or after 09/01/1998.
- Occupant Restraint – Wheelchairs
 - A system of positive occupant restraint shall be provided that secures the occupant. The lap belt shall be attached to the vehicle or to the wheelchair securing fastening devices.
 - The upper torso restraint shall be provided and attached to the vehicle and/or the wheelchair securing fastening devices on vehicles manufactured after 09/01/1998.

Approved Option

- Child restraint seats built into regular school bus seats that meet FMVSS 571.213.
 - Seat belt seats or seat belt ready seats. Seat belt seats and seat belt ready seats shall meet all applicable FMVSS.
 - Seat belt, must be a three point type belt – 07/01/2020 (**Added 1/10/2020**)
 - Seat belt, two or three point type belt – Prior to 07/01/2020
 - Minimum width of aisle between seats shall be twelve inches at seat level and top of seat back.
-

Violation

- Less than 20% seat bottoms not secured.
- Less than 20% of seat covers with tears or cuts that expose seat foam.
- Tear in stanchion padding.
- Worn/frayed seatbelt webbing.

A school can self-certify the repair of this violation.

Out of Service

- Foam that is split and/or does not cover the seat frame in its entirety.
- Ineffective padding on passenger seats (if disputed, inspector may request seat cover be removed to aid inspection).
- In excess of 20% seat covers with tears or cuts that expose the seat foam.
- In excess of 20% of the seat bottoms not secured.
- Seats not secure to floor and/or sidewall.
- Seat backs not secure to seat frame.
- Seatbelts improperly attached, cut and/or inoperative.
- Seat Frames-with modifications, rust, busted bolts, and broken welds.
- Stanchion padding missing in required location.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(SS) Engine power.

- (1) Diesel engines shall have a minimum of two-hundred horsepower and five-hundred twenty foot pounds of torque.
- (2) Gasoline engines shall have a minimum of two-hundred sixty-five horsepower and four-hundred sixty foot pounds of torque.
- (3) All diesel engines shall be equipped with a block heater. Heater shall be a minimum of seven hundred fifty watts.
- (4) Dry type air cleaner with an air filter restriction indicator is required.
- (5) Engine shall be equipped with a fast idle (air, electronic, or manual) throttle.


Inspection Note

- Engine running and water lines open.
- Engine shall not have any visible fluid leaks to include fuel, oil, coolant and transmission fluid.
- Engine and transmission mounts
 - Shall be secure and in good condition.

Approved Option

- Full Electric School Bus (*Added 1/10/2020*)
(This option does not exempt the vehicle from meeting all other school bus standards unless expressly noted here.)
 - A. An electric powered school bus shall meet all Federal Motor Vehicle Safety Standards and all Society of Automotive Engineers standards that are applicable at time of manufacture. The school bus shall meet Ohio School Bus Construction Standards under Ohio Revised Code 4501-5 in effect at the time of manufacture or bid date.
 - B. Full electric school bus aftermarket conversion kits will not be permitted in Ohio.
 - C. Additional requirements

1. Markings

- a. The outer layer of insulation or wiring conduit for drive system high-voltage wiring shall be bright orange.
 - b. All enclosed compartments which contain high-voltage components shall be labeled with a High Voltage marking/warning.
 - c. "Green Placard" shall appear on the school bus body in the following locations:
 - At the immediate rear of the service door below the floor level rub rail.
 - At or near the driver's side window below the floor level rub rail.
 - On the front, lower driver side (bumper preferred)
 - On the rear, lower passenger side (bumper preferred)
- 
SAMPLE
- All placards shall be 4 inches, have a fluorescent green (Pantone 802C2X color range) background with a black border. The placard shall have the letters "EV", one and a quarter inches (1 1/4") tall, centered.

2. Electric power source (Battery).

- a. Shall not be located in or accessible from the interior of the school bus.
 - b. Shall be contained within the frame rails or if installed outside the frame rails protected with a cage.
 - The cage/compartment shall provide protection to the components in event of a crash.
- Protection cage design for batteries located outside the frame rails shall withstand similar standards as outlined in FMVSS 571.301.
- c. Shall be designed to prevent the passenger compartment from becoming energized.
 - d. All batteries shall be designed to prevent any dangerous fluids or fumes from entering the passenger area.
 - e. There shall be at least one or more of the following: disconnect switch, device to shut-off, or an automatic impact-actuated cut-off to the high voltage components at the power source in the event of a crash.

3. A power disconnect device or switch shall be provided at or near the power source of the electric propulsion system.

- a. This disconnect device or switch shall be clearly marked.
- b. If located inside a compartment, the compartment shall be clearly marked.
- c. This device or switch shall not be in or accessible from the passenger area.

4. Range

OEM design which is capable of operating with a range of 100 miles or more.

5. Instrument Display

The instrument display panel must also contain an indication showing the state of charge (power and/or range) and include a visual warning for low power.

6. Sound Generation

All electric school buses must comply with FMVSS 141 producing sound while in motion below 20 mph.

7. Charging

Charging connection point shall be outside the passenger compartment and clearly marked

All charging connections must contain an inter-locking mechanism

While charging, the transmission/propulsion system shall be rendered inoperative

8. Propulsion system (Exempted from all engine specifications)

Shall be of sufficient power to propel the vehicle fully loaded up to highway speeds (70mph).

The propulsion system may be mounted utilizing a normal drivetrain or positioned in a way to provide direct power to the wheels. All propulsion systems must be contained below the floor line and cannot come into contact with the road surface.

9. Brakes

May produce regenerated power

- Diesel engine starting systems
- Hybrid: This standard is to address a hybrid-electric school bus that is powered by a combination of an electric motor and an internal combustion engine.
 - A. Factory build hybrid electric school bus shall meet all Federal Motor Vehicle Safety Standards and all Society of Automotive Engineers standards that are applicable at time of manufacture. The school bus shall meet Ohio School Bus Construction Standards under Ohio Revised Code 4501-5 in effect at the time of manufacture or bid date.
 - B. Retro-fitted or converted school bus shall meet all Federal Motor Vehicle Safety Standards and all Society of Automotive Engineers standards in effect at the time of the retrofit or conversion. The school bus shall meet Ohio School Bus Construction Standards under Ohio Revised Code 4501-5 in effect at the time of the conversion or retrofit.
 - C. Additional requirements if not addressed in paragraph A or B.
 - 1. Markings
 - a. The outer layer of insulation or wiring conduit on high-voltage wiring shall be bright orange.
 - b. All enclosed compartments which contain high-voltage components shall be labeled with a High Voltage marking/warning.
 - c. "HYBRID ELECTRIC POWERED" shall appear on the school bus body in the following locations:
 - 1) At the immediate rear of the service door below the floor level rub rail.
 - 2) At or near the driver's side window.
 - 3) On the rear of the bus below the widow line.
 - 4) All marking shall be black in color, two inch uppercase lettering and the maximum width consistent with the size of the lettering. Option color for the rear marking may be white if located on the rear bumper.
 - (a) If a manufacturer wishes to deviate from these marking requirements, the manufacturer shall submit a request in writing for consideration.
 - 2. A power disconnect device or switch shall be provide at or near the power source of the electric propulsion system.
 - a. This disconnect device or switch shall be clearly marked.
 - b. If located inside a compartment, the compartment shall be clearly marked also.
 - c. This device or switch shall not be in or accessible from the passenger area.
 - 3. Electric propulsion system power source.
 - a. Shall not be located in or accessible from the interior of the school bus.
 - b. Shall be contained in compartment/s
 - c. The compartment shall provide protection to the components in event of a crash.
 - d. The compartment shall be designed to prevent any dangerous fluids or fumes from entering the passenger area.
 - 4. There shall be an automatic impact-actuated cut-off or disconnect switch or device to shut- off the high voltage components at the power source in the event of a crash.
 - 5. A heat shield shall be installed at any point where the distance is 12 inches or less between the high voltage system and exhaust system.
 - 6. The failure of the electrical system of the hybrid system shall not disable the school bus from operating with the internal combustion engine.
 - 7. A retro-fitted/conversion school bus which modifies the drive train/chassis from original manufacture specifications shall maintain the structural integrity as originally designed.
- Speed retarder system:
 - Performance standard – shall maintain the speed of a fully loaded school bus at 19.0 mph on a seven (7) percent grade for 3.6 miles.
 - If equipped with electro-magnetic retarder(s) shall have increased electrical system capacity commensurate with the needs of the retarder system.

- Pilot lights shall indicate when retarder is in operation.
- The driver shall be able to disengage the system when road/weather conditions warrant.

Violation

- None

Out of Service

- ~~Engine power must meet construction standards.~~
- Noncompliant with any requirements listed for the all-electric or hybrid bus in the Approved Option.
Pupil Transportation Suspended and decals removed. In-person inspection required.



(TT) School safety zone decal

- (1) The decal shall be approximately seven inches by seven inches. At the top of the decal shall be the word "NOTICE", underlined, and immediately below the word "NOTICE" the symbol for no handgun allowed. Below the no handgun symbol, the decal shall state in black lettering on a white background "Unless Otherwise Authorized By Law, Pursuant to Ohio Revised Code Section 2923.122, No Person Shall Knowingly Possess, Have Under The Person's Control, Convey Or Attempt To Convey A Deadly Weapon Or Dangerous Ordnance Onto A School Bus (School Safety Zone)."
- (2) No other markings, symbols or lettering are allowed on the decal.
- (3) The location of the decal shall be on the flat metal surface just above the seat rub rail to the immediate left of the service door. The right edge of the decal shall be within two inches of the end of the rub rail.

Inspection Note

- School Safety Zone Decal shall be displayed to the left of the service door just above the seat level rub rail. Shall be placed as close as possible to the service door as the bus design will allow.

Approved Option

- None

Violation

- Improper location of decal.
A school can self-certify the repair of this violation.
-

Out of Service

- **Missing or worn School Safety Zone Decal**
A school can self-certify the repair of this OOS violation.



(UU) Service door.

- (1) Service door shall be outward-opening, split-type on all buses. Service door shall be air, electric, or manually operated. Door shall be under the control of the driver and designed to afford easy release and prevent accidental opening.
- (2) Service door shall be located on right side of bus opposite the driver and within the driver's direct view.
- (3) Service door entrance shall have minimum horizontal opening of twenty-four inches and minimum vertical opening of sixty-eight inches.
- (4) Glass in service door shall provide maximum area of visibility for operation of the bus.
- (5) All edges of service door shall be sealed by a flexible material to prevent air from entering the door entrance when closed.
- (6) There shall be no safety rail or handholds mounted on the inside of the service door.
- (7) Only one handle or handhold may be placed on the outside of the service door.
- (8) There shall be a head bumper pad installed on the inside at the top of the service doorframe. This pad shall be approximately four inches in width and extend across the entire top of the service door opening and shall meet FMVSS 571.302 for flammability standards of interior materials.
- (9) Service door shall have suitable access for easy lubrication.
- (10) Manual service door.
 - (a) When a manual lever is used, no parts shall come together so as to shear or crush fingers. Lever shall be equipped with an approved safety latch to prevent accidental opening which will lock in the over-center position when door is fully opened. Manually operated doors shall require no more than twenty-five pounds of pull to close and may be hydraulically assisted.
 - (b) Manual door control mechanism shall be heavy-duty bearing type, adjustable for wear, non-corrosive, anodized steel, or equivalent.
- (11) On power-operated service doors, the emergency release valve, switch or device to release the service

door must be placed above the required head bumper or at the same height to the immediate left or right of the service door and must be clearly labeled.

- (a) When the switch or lever is in the released position, it will override door control in driver's area making it non-operational in any of the door control positions.
- (b) Whenever the switch or lever is placed in the released position, it will allow the service door to be opened or closed freely.
- (c) This switch and distribution block that control eight light warning system shall be securely fastened near the door control valve and shall be easily accessible for service and repair.

Inspection Note

- Door shall be outward opening split type on all buses (Bid after 9/01/1998). * Exception – Sedan type door on certain type "A" buses.
- Shall be equipped with a securely fastened handrail. School buses manufactured after 07/01/1988 shall be equipped with handrail on both sides of the interior step well area.
- Light requirements see Lamps and Signal section.
- Door shall fit properly and open freely.
- Weather stripping shall be in good condition. Must not be cracked, broken and shall seal the opening.
- Special Service Entrance Doors
 - All doors shall have positive fastening devices to hold doors in the open position and door bumpers to prevent door-to-body contact.
 - All doors shall have weather seals that are in good condition.
 - On buses bid after 07/01/1988, doors shall be equipped with a device that will actuate a green flashing visible signal located in the driver's compartment when the door is open and ignition is in "on" position.

Approved Option

- Service door obstruction detection device may be installed in the entrance door. The device must detect both pinch and drag potentials and must notify the operator audibly and can also provide a visual alert. (**Added 2/20/20**)
- On power-operated service doors, the emergency release valve, switch or device to release the service door may be placed within the drivers compartment. (This option **can not** be functional while vehicle is in motion.)
- Entrance service door lock. This lock may only be installed if a key is required to move the lock from the unlocked position to the locked position.
- Service door may be black.
 - Note: Special service doors shall not be black.
 - Note: Left side driver's door on type A and A II buses shall not be black.

Violation

- Weather stripping shall not be cracked, broken and must seal the opening.
- Visible rust or corrosion
- Any visible non-separating crack in the door or at any connection point.
- Head bumper loose, or damaged.

A school can self-certify the repair of this violation.

Out of Service

- Inoperative
- Unable to be opened to maximum opening.
- Head bumper missing
- Will not close securely or prevent exhaust fumes from entering the cabin.
- Any visible separating crack in the door or at any connection point.
- Any rust hole in the service door.
- Any air leak in the controls of an air operated service door.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(VV) Service door steps.

- (1) The first step of the service door shall be not less than six inches and not more than sixteen inches from the ground.
- (2) Service door entrance shall be equipped with step risers that do not exceed ten inches. Risers in each case shall be approximately equal.
- (3) Steps shall be enclosed to prevent accumulation of ice and snow.
- (4) Steps shall not protrude beyond side bodyline.
- (5) Hand rails of maximum length, but not less than ten inches long, shall be installed on both sides of the interior step-well area. These handles shall be stainless steel clad. Both handrails shall be securely fastened and designed so as to prevent clothing or any other item from being caught. Handrails may also be yellow polymer coated.
- (6) Surface of steps shall be of non-skid material.
 - (a) Steps shall be covered with a covering material which shall have non-skid characteristics. Step covering shall have a turned-down nosing of a contrasting color of either white, silver, yellow, or bright orange.
 - (b) Step covering shall be securely fastened to the steps in a manner that will minimize tripping. This requires that the heads of mounting screws or bolts be below the top surface of the step tread.
- (7) The service door steps shall have a restraining barrier that is in compliance with FMVSS 571.222 positioned between the stairwell and the passenger compartment. This barrier shall be equipped with a

modesty panel.

Inspection Note


- Shall be equipped with a securely fastened handrail. School buses manufactured after 07/01/1988 shall be equipped with handrail on both sides of the interior step well area.
- Handrail Inspection Procedure - From outside the school bus entrance door the inspector shall drop the nut end of the handrail inspection tool (1/2" nut measuring 3/4" across the flats, tied to a 1/8" diameter nylon or cotton string 36" in length with a single overhand knot) into the crevice formed where the lower end of the handrail is attached to the lower area of the step well. The tool shall then be pulled toward the outside of the school bus through the crevice while the inspector is standing outside the bus service entrance on the ground. The vehicle will be rejected if the tool gets caught, the nut separates from the drawstring, or the drawstring material breaks. If the tool pulls freely through the crevice without catching in the handrail, the vehicle will not be rejected.
- Handrails shall be free of any obstructions or items which interfere with the use of the handrail.
- Step well area shall be reasonably free from rust and corrosion. If the step well area has been weakened to the extent that a hazard exists, it must be repaired/replaced.

Approved Option

- Fold-out step:
 - Installed at the regular service entrance that will provide for the step level to be no more than six inches to ground level. The foldout step may be power activated or manually operated.

Violation

- Wrong color or missing contrasting color of the step nose.
A school can self-certify the repair of this violation.

- 
-
- Obstructed handrail
 - Loose handrail
 - Loose or broken step or step covering

- Steps not meeting construction requirements
- Step well area shall not reasonably free from rust and corrosion

Pupil Transportation Suspended and decals removed. In-person inspection required.



(WW) Steering system.

- (1) All school buses shall be equipped with heavy-duty, truck-type integral power steering.
- (2) Steering mechanism shall provide for easy adjustment for lost motion.
- (3) No changes shall be made in the steering mechanism unless approved by manufacturer.
- (4) There shall be a clearance of at least two inches between steering wheel and any other surface or control.

Inspection Note

- Grasp steering wheel and pull upward.
- Shaft shall not have excessive movement per manufacturer's specifications.
- Tie Rod Ends, Crossbar, and Drag Links
 - Looseness at the steering linkage pivot points can be visually detected during movement of the vehicle steering wheel during a dry park test.
 - Apply hand pressure at tie rod and drag link sockets to check for movement.
 - Vehicle will be rejected if any movement is found in the joint. (Refer to manufacturer specifications.)
 - Check crossbar for structural damage and crossbar clamps for secure mounting.
- Steering and Suspension (Type A & B Buses)
 - Checking these components is rather detailed and proper adjustment will be left to the local mechanic, however, any indication of excessive wear should warrant further checking of the complete assembly by a mechanic.
 - Steering wheel free play and steering column.
- Steering Gear Box
 - Shall have no leaks.
 - Shall be securely mounted. No welding on steering system permitted.
 - No changes shall be made in the steering mechanism unless approved by manufacturer.
- Check steering lash by turning steering wheel left and then right until resistance is met.
This may indicate loose universal joints or excessive play in gearbox.

Approved Option

- Tilt or tilt telescoping steering wheel.

Violation

- Any leaks from the steering gearbox.
- Any excessive vertical movement in the steering wheel.

A school can self-certify the repair of this violation.

Out of Service

- No welded repairs in the steering components
- Steering Column:
 - Any absence or looseness of U-bolts or positioning part(s).
 - Any obviously welded repair of a universal joint.
- Steering wheel not properly secured or lacking 2 inches of clearance.
- Any cracks or obvious repairs on the front axle beam and all steering components.
- Steering Gear Box:
 - Any crack(s) in gearbox or mounting brackets.
 - Any leaks from the steering gear box that is dripping on other components or the ground.
- Steering wheel lash:
Maximum Lash Allowed

	Manual System	Power System
16" or less	2"	4-1/2"
18"	2-1/4"	4-3/4"
20"	2-1/2"	5-1/4"
22"	2-3/4"	5-3/4"

- Pitman Arm:
 - Any looseness of the pitman arm on the steering gear output shaft.
- Power steering auxiliary power assist cylinder loose.
- Ball and Socket Joints:
 - Any movement under steering load of a stud nut.
 - Any motion, other than rotational, between any linkage member and its attachment point of more than 1/8 inch measured with hand pressure only.
- Tie Rods and Drag Links:
 - Loose clamp or clamp bolt on tie rods or drag links.
 - Any looseness in any threaded joint.
 - Nuts – Any loose or missing on tie rods, pitman arm, drag link, steering arm, or tie rod.
- Any modification or other condition that interferes with free movement of any steering component.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(XX) Stop signal arm.

The stop signal arm(s) shall comply with the requirements of FMVSS 571.131 (School bus pedestrian devices).

Inspection Note

- Check for air leaks on an air assisted stop sign assembly.
- May have LED lights on Stop Sign.
- Stop Signal Arm is required on buses manufactured after 05/01/1979.
- The stop arm, when activated, shall extend to 90 degrees from the body of the bus. The stop arm lights shall flash on an alternating pattern.

Approved Option

- Stop Arm Extension:
Stop Arm extensions may be installed with, but not in place of, the required Stop Arm as described in FMVSS 571.131. All extensions may not exceed 4.5' in length. The extension will have reflective red and white material on the lower portion of the frame or gate. If the device has a secondary Stop Sign at the end of the extension, red flashing lights must be installed and function as the required stop arm. If a gate style is used, the length of the gate must be illuminated with red flashing lights. All extension must active with the Stop Arm warning system and have a breakaway function.

Violation

- Worn or faded stop sign.
- LED assembly with 25 to 49% inoperable diodes.
A school can self-certify the repair of this violation.

Out of Service

- Any missing or inoperative Stop Sign.
- Any audible air leak at stop sign.
- Inoperative lights on stop sign.
- LED assembly with 50% or more diodes that are inoperable.
- Second stop sign with any lettering on the front side.
- Unreadable Stop Sign
Pupil Transportation Suspended and decals removed. In-person inspection required.



(YY) Sun visor.

The school bus shall be equipped with at least one interior adjustable transparent sun visor, folding type, which is a minimum of six by thirty inches in size. If only one sun visor is installed, it shall be positioned for use by the driver. Exception - "Type A" shall be manufacturer's standard.

Inspection Note

- None

Approved Option

- Passenger side sun visor.
- Driver side (side window) adjustable transparent sun visor, folding type, contained within the framework of the window and mounted securely. (Added 2/20/2020)

Violation

- Loose, cracks or breaks in the visor.
- Improper size as required.
- Sun visor that is positioned to interfere with the driver's vision of the rearview mirror

A school can self-certify the repair of this violation.

Out of Service

- Sun visor that is installed so as to interfere with the driver's vision of the rearview mirror
- Sun Visor not securely attached.

A school can self-certify the repair of this OOS violation.



(ZZ) Tires, rims and wheels.

- (1) Manufacturer or authorized dealer shall balance all wheels and make necessary alignments prior to delivery.
- (2) Dual rear tires and wheels shall be provided (except "Type A".)
- (3) All tires on a given axle shall be of same size, tread design, construction and capacity.
- (4) All shall be equipped with tubeless radial tires of proper size and load range that meets or exceeds chassis gross vehicle weight ratings and body combinations as required by FMVSS 571.120.

(5) Disc wheels shall be used.

(6) Wheel composition - wheels shall be made of steel or aluminum.

Inspection Note

- Tires shall have a tread depth of not less than 4/32 inch for steering axle and not less than 2/32 inch for rear tires, measured anywhere on any major groove.
- No bus shall be operated on any tire that has body ply or belt material exposed through the tread or sidewall or has any tread or sidewall separation.
- All valve stems shall be capped.
- No retreads, recapped, re-grooved, patched or plugged tires are permitted on the steering axle. No re-grooved tires allowed on a bus.
- All lugs shall be present & properly tightened.
- Tires shall be properly inflated. Refer to tire manufacture recommended inflation pressure.
- Tires rated as a snow tire only are not permitted on steering axle.
- Rims and wheels shall be black and/or natural iron gray in color and shall not be bent or twisted.
- Color of wheels to be uniform per bus.
- All tires per axle shall be the same size (height and design). Buses bid prior to 07/01/1988 may have bias-ply or radial tires. No mixing of bias-ply and radial tires permitted.
- Buses bid prior to 07/01/1988 may have tubeless radial tires on the steering axle and tube radial tires on the rear axle in order to upgrade steering axle rims.
- Buses bid after 07/01/1988 shall have tubeless radial tires
- Load rating of tires shall meet or exceed manufacture's rating.
- ***If the tire size or type differs from the attached spec plate; The school must provide documentation that the bus was ordered/purchased with the current tire size/type or a letter from the manufacture stating the tire size/type is acceptable.***

Approved Option

- Aluminum rims
- Dual tire air pressure equalizing system
- Automatic tire chains:
 - Power-operated but must be controlled from the driver compartment.
- Drive wheel sanders.
- Safety lugs and clamps:
 - May be used on wheels that use multi-piece rims.
- Spare tire and rim:
 - Must be securely mounted underneath the vehicle.
- Tires and Lug Nut Indicators:
 - Multi-seal; Water-based high performance tire sealant.

- Indicators must match the color of the rim.

Violation

- Non-matching color on rims on same axle.
- Any crack less than three (3) inches in length.
- Any spot on Front tire with less than 4/32 inch tread.
- Any spots on Rear tires with less than 2/32 inch tread.
- Any missing valve stem cap.

A school can self-certify the repair of this violation.

Out of Service

- General:
 - Front tires – below 4/32 inch when measured in any two adjacent major tire groves at any location on the tire.
 - Rear tires – below 2/32 inch when measured in any two adjacent major tread grooves at 3 separate locations on tire.
 - Improper tire size per manufacture specifications with no documentation presented per inspection notes.
- Tire is flat or has a noticeable leak.
- Mounted or inflated so that it comes into contact with any part of the vehicle.
- Visually observable bump, bulge, or knot apparently related to tread or sidewall separation.
- Weight carried exceeds tire load limit.
- Automatic tire chains inoperative
- Drive wheel sanders inoperative
- Any foreign object puncturing the tire.
- Rear inner tire valve stems must be accessible.
- Front Tires:
 - Any part of the breaker strip or casing ply showing in the tread.
 - When sidewall is cut, worn, or damaged to the extent that the plycord is exposed.
 - Labeled “Not for Highway Use” or carrying other markings that would exclude use on steering axles.
- Retreaded, recapped or re-grooved tires.
- Rear Tires:
 - Bias Ply – when more than one ply is exposed in the tread area or sidewall or when the exposed area of the top ply exceeds 2 square inches
 - Radial Ply – when two or more plies are exposed in the tread area, or damaged cords are evident in the sidewall or when the exposed area exceeds 2 square inches in the sidewall.
- 75% or more of the tread width loose or missing in excess of 12 inches in circumference.
- Re-grooved tire in use.
- Has 50% or less of the maximum inflation pressure marked on the tire sidewall.
- Any loose or missing lug.
- Rims:
 - Any circumferential crack.
 - Any crack exceeding three (3) inches in length.
 - Any crack extending between any two holes. (Hand Holes, Stud holes and Center holes).

- Any weld on an aluminum rim.
- More than two cracks on the wheel.
- Any elongated bolt or stud hole.
- Spare tire not secured properly.
- Must be of the same material.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(AAA) Tow hooks.

- (1) Two rear tow hooks shall be installed, with the hooks and their mounting of sufficient strength to tow the vehicle at the vehicle's curb weight.
- (2) Two front tow hooks may be installed, with the hooks and their mounting of sufficient strength to tow the vehicle at the vehicle's curb weight.

Inspection Note

- None

Approved Option

- None

Violation

- Missing one tow hook
A school can self-certify the repair of this violation.

Out of Service

- Missing more than one to the front or rear as required.
- Cracked weld at any point
- Located or installed past the bumper.
A school can self-certify the repair of this OOS violation.



(BBB) Transmission.

- (1) Manufacturer shall furnish an automatic transmission or automated manual transmission.
- (2) The torque rating of the transmission shall meet or exceed the maximum torque output of the engine.

Inspection Note

- Clutch Operation:
 - Pedal linkage shall be free of obstructions.
 - Clutch shall engage and disengage as designed by the manufacturer.
 - Pedal blocks or adjustable pedals, if used, shall be installed by manufacturer after 01/01/1991.

Approved Option

- None

Violation

- Worn pad on clutch pedal showing metal.
A school can self-certify the repair of this violation.

Out of Service

- Leaking
 - Clutch does not operate as designed by the manufacturer.
 - Loose pedal linkage
 - Non Manufactured pedal blocks or pedal adjusters
- Pupil Transportation Suspended and decals removed. In-person inspection required.**



(CCC) Vehicle identification plates

All chassis serial number identification plates shall be attached to the bus and be clearly identifiable and legible for the entire life of the bus.

Inspection Note

- The Vehicle Identification Number of each vehicle shall appear clearly and indelibly upon either a part of the vehicle, other than the glazing, that is not designed to be removed except for repair or upon a separate plate or label that is permanently affixed to such a part.

Approved Option

- None

Violation

- Damaged or unreadable
A school can self-certify the repair of this violation.

Out of Service

- **Missing or altered.**
Pupil Transportation Suspended and decals removed. In-person inspection required.



(DDD) Wheel-housings.

- (1) Wheel-house shall be attached to floor components in such a manner to prevent water, dust or fumes from entering the bus body.
- (2) Wheel-house openings shall allow for easy tire removal and service.
- (3) Inside height of wheel housing above floor line shall not exceed ten inches.
- (4) Wheel-housing shall provide clearance to permit the installation of tire chains per SAE standard J683.

Inspection Note

- None

Approved Option

- None

Violation

- Missing an attachment point
A school can self-certify the repair of this violation.

Out of Service

- Not attached to the floor allowing water, dust or fumes into the bus body.
- Cracked or separated housing causing a hazard to the passengers.
- Any holes from the underside of the wheel housing.
Pupil Transportation Suspended and decals removed. In-person inspection required.



(EEE) Width

Overall width of a bus shall not exceed one hundred and two inches, excluding mirrors.

Inspection Note

- None

Approved Option

- None

Violation

- None

Out of Service

- In excess of one hundred and two inches, excluding mirrors.
Pupil Transportation Suspended and decals removed. In-person inspection required



(FFF) Windows.

- (1) Driver's side window shall be capable of opening and be equipped with a lock-type closure. Exception - "Type A" buses shall be manufacturer's standard.
- (2) Each side window in the passenger area shall be split sash and provide unobstructed opening at least nine inches high and twenty-two inches wide, obtained by lowering the upper sash. If the bus body design does not allow all windows to meet the width dimension requirement, up to two side windows per side in the passenger area may be less than the twenty-two inches. They may or may not open.
- (3) Individual windows shall not have a vertical opening greater than twelve inches. Stops shall be installed where needed to obtain this dimension.
- (4) Windows may be tinted pursuant to section 4513.241 of the revised code. Any window tinting must also meet FMVSS 571.205.

Inspection Note

- Frames around glass shall be secure.
- Cracks in the windows shall not be over one (1) inch in length.
- Windows must be operational.
- Buses must have tempered or laminated glass in windows behind the driver.
- The glass must be marked and meet FMVSS standard 571.205 for glazing. Effective 11/1/2006, all glass must meet appropriate construction standards that apply to the year of manufacture of the bus.
- Windshield, original or replacement, may have a sunscreen strip at top that meets manufacturer's specifications. (AS1 line)
- Windshield shall be securely mounted.

Approved Option

- Tinted windows pursuant to section 4513.241 of the Revised Code and in compliance with FMVSS 571.205.
- Insulated windows
 - Window frame shall not protrude into the passenger compartment.
- Rear window air dam:
 - To direct wind down across the back of the bus to keep the rear window clean.

Violation

- Crack in window less than one (1) inch in length.

A school can self-certify the repair of this violation.

Out of Service

- Cracks in excess of one (1) inch in length.
- Frame not securely fastened to the window.
- Improper glass for window.
- Inoperable window.
- Limited visibility (dirty, objects in the line-of-sight of the operator)
- Window not securely fastened to the frame.

A school can self-certify the repair of this OOS violation.



(GGG) Windshield washers.

- (1) The windshield washer fluid reservoir shall have a minimum capacity of two quarts in a rigid plastic container. It shall be mounted outside the interior of the bus and in a position readily accessible for refilling,
- (2) Windshield washer shall incorporate a check valve in supply line. Check valve will not allow washer fluid to drain back into washer tank when not in use.
- (3) Heated windshield wipers and heated washer fluid units are permitted.

Inspection Note

- Windshield washer must be operative.

Approved Option

- None

Violation

- Washer check valve not operational
- Reservoir below minimum capacity

A school can self-certify the repair of this violation.

Out of Service

- Windshield washer inoperative or not spraying onto the windshield effectively.
- Improper mounting location.

A school can self-certify the repair of this OOS violation.



(HHH) Windshield wipers.

- (1) Two heavy-duty windshield wipers are required.
 - (2) Windshield wipers to be operated by one or more electric motors.
 - (3) Windshield wipers shall be controlled with one switch. Switch shall provide multi-speed operation and shall incorporate an intermittent position.
 - (4) Wipers shall be wet arm type.
 - (5) The windshield wiper motor or motors shall have sufficient power and the wiper arms and blades shall be of sufficient length to provide the largest cleaning area possible.
-

Inspection Note

- Must be operative.
 - Wiper blades that could damage windshield or do not wipe the windshield clean shall be replaced.
 - Windshield wipers shall be controlled with one switch. Switch shall provide multi-speed operation and shall incorporate an intermittent position. (Effective 9/1/1998)
-

Approved Option

- None
-

Violation

- Wiper blade torn
- A school can self-certify the repair of this violation.**
-

Out of Service

- Missing or ineffective blade or blade swipe.
- Multi speed or intermittent position not working.
- Windshield wiper inoperative.

A school can self-certify the repair of this OOS violation.



(III) Wiring.

- (1) All wiring shall conform to current society of automotive engineer's standards. Wiring diagrams must be made available to school bus owners.
- (2) Short circuit protective devices shall be provided for each major circuit and all other electrical functions, except starter motor and ignition circuits.
- (3) All wires within body shall be insulated and protected by a covering that will protect them from external damage and minimize dangers from short circuits. Whenever wires pass through body members, additional protection in the form of an appropriate type of insert shall be provided.
- (4) Wires not enclosed within body shell shall be fastened securely at intervals of not more than twenty-four inches.
- (5) All joints shall be soldered or joined by equally effective connectors.

Inspection Note

- Insulation shall not be cracked, worn, chaffing, or frayed.
- Electrical tape may be used to protect wiring where insulation has worn.
- No missing bolts/fasteners or components as manufactured.

Approved Option

- None

Violation

- Chaffed wiring not through the protective coating.
 - Loose or unconnected wiring.
- A school can self-certify the repair of this violation.**

Out of Service

- Missing insulation.
- When passing through body members, additional protection in the form of grommets or an appropriate type of material is not present.

- Charred or burnt.
- Damaged extending through the protective coating and or insulation.
- Any wiring not OEM must be protected by fuse, circuit breaker or equivalent protection device.

Pupil Transportation Suspended and decals removed. In-person inspection required.



(JJJ) Lift equipped buses.

Buses equipped with wheel chair lifts shall also meet all applicable paragraph of rule 4501-5-03 of the Administrative Code. The bus is used to transport pupils with disabilities; the bus shall also meet all applicable paragraphs of rule 4501-5-03 of the Administrative Code.

Inspection Note

- Lift shall be confined within the perimeter of the school bus body when not extended and shall not be attached to the exterior of the bus. Lift shall be securely mounted with no missing or loose fasteners. No hydraulic leaks.
- When the lift platform is in the fully up position, it shall be locked in position mechanically by means other than a support lug on the door on buses bid after 07/01/1988.
- Controls shall be provided that enable the operator to activate the lift mechanism from inside and outside of the bus.
- Lift travel shall allow the lift platform to rest securely on the ground.
- All edges of the platform shall be designed to restrain wheelchair and operator's feet from becoming entangled during the raising and lowering process. Protective shields shall be in place and operable.
- Platform shall be fitted on both sides with full-width shields which extend above the floor line of the lift platform. The bus or platform shall be designed to prevent the wheel chair from rolling off the rear of the platform.
- A restraining device shall be affixed to the outer edge (curb end) of the platform that will prohibit the wheelchair from rolling off the platform when the lift is in any position other than fully extended to ground level.
- A self-adjusting skid-resistant plate shall be installed on the outer edge of the platform to minimize the incline from the lift platform to the ground level. This plate, if so designed, may also suffice as the restraining device explained in paragraph (G) (7) of this rule. The lift platform must be skid resistant.
- A current interruption device shall be installed between the power source and lift motor if electrical power is used.
- Rapid descent of lift is not acceptable.
- An actuating switch shall be installed in the circuit to prevent the lift mechanism from operating when doors are closed.
- Lift structure must have adequate padding and barriers for passengers' protection.
- All lifts installed after 07/01/2005 shall meet FMVSS 403/404 (interlock systems).
- Not securely mounted with no loose bolts/nuts.
- Hydraulic leaks.
- When lift platform is in the up position, it does not lock into place (Lift platform shall not rest against lift door).

- A restraining device that is affixed to the outer edge (curb end) of the platform that will prohibit the wheelchair from rolling off the platform when the lift is in any position other than fully extended to ground level not working properly.
- Installations after 07/01/2005 which fail to have operational interlock systems as required by FMVSS 571.403/404.
- Wheelchair mounting track shall be secure in the floor.
- Special Service Entrance
 - A head bumper pad shall be installed above lift door and or on lift frame.
- Fastening Devices
 - Wheelchair securing devices shall be provided and attached to the floor, walls, or both to enable securing of wheelchairs in the vehicle. The devices must be of the types that require human intervention to unlatch or disengage. Restraint devices for wheelchairs, car seats, care chairs, etc. shall be installed according to restraint manufacturer's instructions.
 - Additional fastening devices may be needed to restrain the student due to the many different chair configurations. Devices not in use shall be stored or secured.
 - All buses equipped with attachment points securement devices and/or wheelchair securement systems shall also be equipped with a durable webbing cutter having a full width handgrip and protected blade. The cutter must be appropriately stored in the driver's compartment to the left of the driver.

Approved Option

- None

Violation

- Damaged padding or protection barrier on lift platform or supports.
A school can self-certify the repair of this violation.

Out of Service

- Shall not be attached to the exterior of the bus.
- Lift shall be securely mounted with no missing or loose fasteners.
- Shall be free of any hydraulic leaks.
- Lift travel not within specified regulations.
- Lift platform shall not rest against lift door.
- No or inoperative restraining device
- Missing actuating switch preventing operation when doors are closed.
- Missing current interruption device shall be installed between the power source and lift motor if electrical power is used.
- Missing padding or protection barrier on lift platform or supports.
- Inoperative controls from inside or out.

- Missing full-width shields which extend above the floor line of the lift platform.
- Non-skid resistant platform on lift.

Pupil Transportation Suspended and decals removed. In-person inspection required.



4501-5-03 SCHOOL BUSES USED TO TRANSPORT PUPILS WITH SPECIAL NEEDS.

(A) General requirements.

(1) All school buses equipped with wheelchair lifts shall comply with rules [4501-5-01](#) to 4501-5-3 of the Administrative Code, when applicable.

(2) School buses used for the transportation of pupils with special needs that require the use of a wheelchair and/or other mobile seating devices which prohibit use of the regular service entrance shall be equipped with a power lift.

(3) The lift shall be located on the right side of the body, in no way attached to the exterior sides of the bus. When not extended, the lift shall be confined within the perimeter of the school bus body. Buses equipped with a lift shall not have passenger seats installed directly across the aisle way from the lift unless they are seats that have been designed to be removed for the purposes of alternative passenger securement.

(4) All school buses equipped with wheelchair lifts shall be equipped with an electronic communication system. The electronic communication system shall be capable of constant contact with the school or dispatch point. This equipment may be excluded from the bus manufacturer's bid and purchased separately.

Inspection Note

- None

Approved Option

- A fire blanket may be securely stored in rear of the bus in a manner that does not block the aisle, windows or exits.

Violation

- None

Out of Service

- Inoperative or missing electronic communication system.
- Communication system interfering with OEM controls.

Pupil Transportation Suspended and decals removed. In-person inspection required.

(B) Aisle width.

All school buses equipped with a power lift shall provide a minimum thirty-inch pathway leading from any wheelchair position to an emergency door that is at least thirty inches wide.

Inspection Note

- All aisles leading from the wheelchair area to an emergency door and the lift shall be of sufficient width, minimum of thirty inches, to permit passage of maximum size wheelchair.

Approved Option

- None

Violation

- None

Out of Service

- Minimum width of aisles does not meet Construction Standards.
- Hold down on engine cover not secured or creates trip hazard.

Pupil Transportation Suspended and decals removed. In-person inspection required.

(C) Attachment points.

All school buses equipped with attachment points, securement devices and/or wheelchair securement systems shall also be equipped with a durable webbing cutter having a full width handgrip and protected blade. The cutter must be appropriately stored in the driver's compartment to the left of the driver. This equipment may be excluded from the bus manufacturer's bid and purchased separately.

Inspection Note

- Additional securement devices must be secured while not in use.

Approved Option

- None

Violation

- None

Out of Service

- Missing, inoperative, or not secured seatbelt cutter.
- Missing or inoperative attachment points, securement devices and/or wheelchair securement systems.
- Securement devices not properly stored or secured.

Schools can self-certify the repair of this OOS violation.

(D) Wheelchair securement.

School buses designed for the transportation of pupils using wheelchairs or special mobility devices shall have wheelchair securement and occupant restraint systems that comply with SAE standard J2249 installed as specified in FMVSS 571.222, sections 5.4.1 to 5.4.4 at each wheelchair location.

(E) Wheelchair tie down systems.

Securement system for mobile seating device and occupant.

- (1) The designated area for the wheelchair/mobile seating devices shall be a minimum of fifty inches longitudinally by thirty inches laterally. The designated area shall be free of all obstructions pursuant to FMVSS 571.222.
 - (2) All securement system attachments or coupling hardware not permanently attached shall be designed to prohibit accidental disconnecting.
 - (3) All attachment or coupling systems designed to be connected or disconnected frequently shall be accessible and operable without the use of tools or other mechanical assistance.
 - (4) No mobile seating device securement system hardware shall be placed so that a mobile seating device can be placed blocking access to lift door or emergency door(s) with the exception of track hardware.
 - (5) Detailed instructions, including a parts list, regarding installation and use of the system shall be provided with each vehicle equipped with an occupant securement system.
 - (6) Detailed instruction, including a diagram regarding the proper placement and position of the system including correct belt angles, shall be provided with each vehicle equipped with an occupant securement system.
-

Inspection Note

- None

Approved Option

- None

Violation

- Frayed seatbelt or securement webbing
Schools can self-certify the repair of this violation.

Out of Service

- Not securely attach to the floor
- Attachment points and or devices not operating within standards.
- Inoperative or cut seatbelt

Pupil Transportation Suspended and decals removed. In-person inspection required.

(F) Seat spacing.

Flexibility in seat spacing and floor plan layout to accommodate special devices shall be permitted.

Inspection Note

- None

Approved Option

- None

Violation

- None

Out of Service

- None

G) Special service entrance.

(1) The special service entrance door(s) shall be at any convenient point on the right curbside of the bus. When the special service entrance is located forward of the rear wheels, the special service entrance door(s), in the open position, shall not obstruct the regular service entrance.

(2) The opening may extend below the floor through the bottom of the body skirt. If such an opening is used, reinforcements shall be installed at the front and rear of the floor opening to support the floor and give the same strength as other floor openings.

(3) The opening, with doors open, shall be of sufficient width and depth to allow the passage of wheelchairs/mobile seating devices and mobility aids. The minimum clear opening shall be fifty-six inches in height

(4) A drip molding shall be installed above the opening to effectively divert water from the opening. Door posts and headers for the special service entrance shall be reinforced sufficiently to provide support and strength equivalent to the areas of the side of the bus not used for service doors. A head bumper pad shall be installed above the special service entrance and/or on the lift frame.

Inspection Note

- None

Approved Option

- None

Violation

- Loose head bumper pad
Schools can self-certify the repair of this violation.

Out of Service

- Missing drip molding
- Missing head bumper pad
Schools can self-certify the repair of this OOS violation.

(H) Special service entrance doors.

(1) A single door or double door may be used.

(2) All doors shall open outwardly. The special service entrance doors shall have a positive fastening device/s to hold doors in the open position and door bumpers to prevent door-to-body contact.

(3) All doors shall be weather-sealed. Buses with double doors shall be so constructed that a flange on the forward door overlaps the edge of the rear door when closed.

(4) When manually operated dual doors are provided, the rear door shall have at least a one-point fastening device to the header. The forward mounted door shall have at least three-point fastening devices. One shall be to the header, one to the floor line of the body, and the other shall be into the rear door. These locking devices shall afford maximum safety when the doors are in the closed position.

(5) The door and hinge mechanism shall be of a strength that is greater than, or equivalent to, the emergency door exit. Door materials, panels and structural strength shall be equivalent to the conventional service and emergency doors. Color, lettering and other exterior features shall match adjacent sections of the body.

(6) Each door shall have a window compatible within one inch of the lower line of adjacent sash. The window shall be installed to provide a dustproof/watertight fit.

(7) The special service entrance shall be equipped with a device that will actuate a visible signal located in the driver's compartment when the door or doors are not securely closed and the ignition is in on position.

Inspection Note

- None

Approved Option

- None

Violation

- Damaged weather seal
- Missing door bumper

Schools can self-certify the repair of this violation.

Out of Service

- Positive fastening device missing or inoperative.
- Missing weather seal
- Inoperative locking device
- Special service entrance signal light inoperative (green flashing light).

Pupil Transportation Suspended and decals removed. In-person inspection required.

(I) Lift area lighting.

Adequate lighting of the lift area (both inside and outside) shall be provided. The light(s) used to illuminate the interior and exterior of the lift area shall be activated when the lift door is open.

Inspection Note

- None

Approved Option

- None

Violation

- None
- 

Out of Service

- Lift area lighting inoperative.

Schools can self-certify this OOS violation was repaired.

(J) Weight distribution.

On buses equipped with a power lift, the battery box and fuel tank may be located by the manufacturer to provide equal weight distribution to compensate for the weight of the power lift mechanism.

(L) Alternator.

Alternator shall have a minimum power output of two-hundred forty amps. "Type A" buses must be the largest alternator output available from the original equipment manufacturer.

(K) Alternator and power supply.

A circuit breaker shall be installed between the power source and the lift motor. It shall be located as close to the power source as possible but not within the passenger/ driver compartment.

Inspection Note

- None
-

Approved Option

- None
-

Violation

- None
-

Out of Service

- None

(M) Power lift.

The lift and installation shall comply with the requirements set forth in FVMSS 571.403 (platform lift systems for motor vehicles) and FMVSS 571.404 (platform lift installations in motor vehicles).

(1) Design

(a) The lifting mechanism and platform shall be able to lift a minimum payload of eight hundred pounds.

(b) Lifts installed in all school buses shall be fully automatic, including folding and unfolding of the platform.

(2) Controls shall be provided that enable the operator to activate the lift mechanism from either inside or outside of the bus.

(3) School buses delivered to Ohio owners after the effective date of this rule shall have the lift installed by the body manufacturer or authorized agent. The installation shall be certified and the documentation shall be provided by the installer. It shall be the responsibility of the installer to ensure the levelness of the vehicle after installation. The location of the lift shall not adversely affect the legal axle loading, the maneuverability, structural, or the safe operation of the vehicle in which it is installed.

(4) When the special service entrance is installed adjacent to the stepwell or has a seat or wheelchair position directly in front of or behind the special service entrance, a barrier panel shall be installed. The barrier panel shall prevent the possibility of a body limb from becoming entangled in the lift mechanism. The barrier panel may be flush to the outside wall of the bus or at a dimension that will prohibit a passenger from coming in contact with the lift mechanism. The panel may be constructed of aluminum or polycarbonate. The end of the barrier panel exposed to the passenger compartment shall be secured to a padded stanchion extending from the floor to the ceiling. The stanchion shall be attached to the roof bow or a reinforced panel in the ceiling. If the barrier panel is used in conjunction with a padded stanchion and modesty panel, it shall extend approximately six inches above the lift platform and extend beyond the stationary frame or the inner most part of the lift exposed to the passenger compartment. If the barrier panel is a separate installation, it shall be constructed of the same materials and extend from the floor to approximately six inches above the lift platform and extend beyond the stationary frame or the most inner part of the lift exposed to the passenger compartment. The barrier panel shall be in compliance with FMVSS 571.302 and FMVSS 571.222.

Inspection Note

- None

Approved Option

- None

Violation

- Missing fastener on the barrier panel
 - Damaged padding on barrier panel
- Schools can self-certify this violation is repaired.**



Out of Service

- Automatic lift inoperative.
- Lift controls inoperative or inaccessible.
- Missing or loose barrier panel

Pupil Transportation Suspended and decals removed. In-person inspection required.

INSPECTION SEQUENCE

A logical inspection sequence must be used to inspect a bus with a minimum amount of lost time and steps. The inspector should check all components in one location before moving to the next to reduce retracing steps. It is imperative that all buses be inspected using the same criteria. A uniform inspection process should be developed and followed so that defects/violations can be readily identified. The same sequence should be followed to ensure an accurate and thorough inspection report.

Communication:

Prior to beginning an inspection the inspector shall discuss with the facility personnel the method that will be employed to conduct the inspections. Topics should include what the inspector requires the operator of the bus to do and what hand or verbal commands will be given. It shall also be stressed that NO bus control be operated without first being requested to do so by the inspector. Any other topics that will contribute to the inspection and the safety of the inspector should be addressed.

Safety:

Immediately after the bus is presented and before any portion of the inspection is performed, the rear wheels shall be chocked. Chocks shall be used in front of and to the rear of either side rear wheel assembly. The inspector shall not be under the bus while the engine is running. The only exception to this is if the inspector needs to check the exhaust system for leaks. Prior to the engine being started, the inspector will position himself/herself from under the bus and only go back under the bus after advising the operator of the bus of their intentions. After the exhaust system is checked, the inspection will continue only after the engine is turned off. Safety glasses and mechanics type gloves should be worn by the inspector to aid in the prevention of injuries during the inspection process.

Inspection methodology:

Exterior Inspection

The inspector shall position themselves at the right front corner of the bus and have the operator activate all lights. This position provides a clear view to the front and right side lights including the step well lights.

Walk across the front of the bus and check all components including but not limited to the bumper, cross view mirrors and wipers. Check that all electrical wires entering the body are protected by grommet or a material to prevent wear to the insulation of the wire.

Check all of the required markings on the front of the bus including the identification number, local number and all reflective markings visible from the front of the bus. Also, check the windshield for cracks or discoloration.

- Begin to check the left side of the bus.
 - The paint and body panel condition.
 - Examine the left side extending stop sign and its' wiring.
 - Left front tire condition and all lug nuts.
 - Left side mirrors for cracking, secureness, and spotting.

- Open the electrical panel. Insulation shall not be cracked, worn or frayed.
- Open the battery box
- All glass for the proper type and cracking.
- All required reflective material and required markings.
- Ensure any left side exhaust meets requirements.
- Examine the left rear wheel and tire assembly.
- The inspector now positions themselves at the left rear corner of the bus. (NOT DIRECTLY BEHIND)
 - Observe the function of the required lighting on the rear of the bus.
 - Listen for the required back up warning device.
 - The condition of all required school bus and reflective markings.
 - After the engine is turned off, check the operation of the emergency door.
- Right side
 - The paint and body condition.
 - All required reflective material and markings
 - Examine the right rear wheel and tire assembly.
 - The fuel cap.
 - All glass for proper type and cracking.
 - The service door.
 - The right front tire and wheel assembly.
 - The right side view mirrors for cracking, secureness and spotting.

Engine Compartment (Type AI, Type A-II, Type B and Type C buses)

- From right side of the engine compartment:
 - Exhaust system that is visible from above.
 - Frame
 - All hoses for leaks and chafing
 - Electrical components for broken insulation, chafing and burnt wires.
 - Check hood assembly
 - Cracks or holes in the firewall
 - Loose or missing hood stops
 - Fluid leaks from fuel and cooling systems.
 - Oil leaks
 - The condition of the brake airlines or hydraulic hoses.
 - Suspension components.
 - Exterior engine components.
- From the left side of the engine compartment:
 - Steering shaft
 - Pitman arm
 - Steering gearbox
 - Fluid leaks from the engine, fuel system, steering components, brake system and cooling system.
 - Check the hood assembly.
 - Suspension components.
 - Frame
 - Electrical components for broken insulation, chafing and burnt wires.

- The condition of the brake airlines or hoses.
- Cracks or holes in the firewall.

NOTE: It is recommended that air brake slack adjuster measurements be obtained on type B and type C buses at this time. If the bus is equipped with hydraulic brakes check for fluid leakage at the wheel cylinder, calipers and all brake line fittings.

The engine compartment on Type D buses should be checked upon entering the bus to perform the driver area and passenger compartment inspection. The interior engine cover (doghouse) shall be opened on all Type D buses.

Undercarriage/Brake Inspection

(It is imperative that all efforts be made to begin and end each inspection at the same location on the bus to limit missed violations.)

Confirm that the bus wheels are chocked and discuss with the driver what you are going to require them to do as you are under the bus.

- Begin the inspection at the right front corner of the vehicle and check the following:
 - Condition of all brake components.
 - Suspension Components.
 - Frame condition
 - Bottom of radiator
 - Check under side of engine for fluid leaks.
 - Instruct the driver to rock the steering wheel and check for vertical play in the right tie rod end.
 - If a Type D bus, check the right side brake slack adjuster measurement.
 - Re-position across the front of the engine compartment and check the condition of all engine mounts and frame cross supports.
 - Instruct the driver to rock the steering wheel back and forth and check the pitman arm at the steering gear box for looseness. While the driver is rocking the wheel, check the ball and socket joints at both ends of the drag link and the left tie rod end.
 - Check all brake components and if a Type D bus check the slack adjuster measurement.
 - Check all engine and transmission mounts.
 - Check the front shocks for leaks and looseness.
- Re-position around the LF wheel and begin inspecting the components behind the front axle.
 - Battery box for rust holes and wire grommets
 - Condition of the air tanks and mounts
 - Engine and transmission mounts.
 - Examine all floor cross supports for rust damage and cracking.
 - Check all carrier bearings and Universal joints for excessive play.
 - Check the condition of the steel floor for rust damage.
 - On air brake equipped buses, check all airlines for wear and ensure that they are not rubbing the frame or any other components.
 - Examine the exhaust system including the muffler and all seal clamps for leaks. Also check all mounting brackets for securement.
 - Examine the frame to include the main frame, cross members and body insulator pads.

- At the rear axle check the following:
 - The rear brake slack adjuster measurements.
 - **NOTE:** During this operation, be sure that the bus operator clearly understands all instructions from the inspector. Also, the inspector shall position themselves out from under the bus as the operator is activating the service brake, releasing the service brake and setting the parking brake.
 - If the bus is equipped with hydraulic brakes check for fluid leakage around all wheel cylinders, calipers and brake line fittings.
- Re-position around the rear axle.
 - Check the condition of the tires and wheels
 - Check the condition of the shocks and/or air bag suspension components.
 - Check the exhaust system for leaks and secureness.
 - If the fuel tank is positioned behind the axle, check the condition of the fuel tank cage and mounting straps as well as for leakage.
 - Check all floor supports and frame condition.
 - Check the condition of the rear bumper and the mounting points.
- Re-position to the right side of the bus and forward of the rear axle.
 - Examine the tire and wheel condition.
 - Check all floor cross supports and mounting locations as well as the right frame rail and body pads.
 - Examine the fuel tank components.
 - Examine the condition of the stepwell for rust holes and loose supports.
- After exiting from under the bus, ensure that the parking brake is set and remove the wheel chocks.

Driver compartment inspection

- Enter the bus and check the following:
- The inspector shall check all controls in the driver area.
- With the key in the ON position, engine off and the parking brake released, repeatedly depress the service brake pedal until the low air warning beeper and light activate (prior to reaching 60 PSI) and the parking brake sets. The parking brake may not set at an air pressure higher than 40 PSI

Passenger Area

- Check the condition of the entire rubber floor covering and any trim pieces.
- Trim pieces must be present where required, fastened securely to the floor and be without sharp edges.
- Seat bottoms must be secure to the seat frames and the metal backs should be secure to the seat.
- Seats shall be securely mounted to the floor.
- There shall be no rust holes in any component in the interior of the bus.
- All emergency exits shall open fully with no catching or binding.
- **ONLY ITEMS NECCESARY FOR THE SAFE OPERATION OF THE SCHOOL BUS ARE ALLOWED.**
- Lost and found articles should be removed at the end of each day.
- Check the interior cleanliness of the school bus. There shall be no loose items in the driver area or passenger area that could cause distraction to the driver or injury to a passenger.

- If the school bus has passed inspection, affix a current inspection decal in the locations specified in the Ohio School Bus Inspection manual.
- The inspector shall refer to the Ohio School Bus Inspection manual for all specific requirements and this outline should only be used as a guide for the inspection process.

Air brake system checks shall be performed on twenty (20%) percent of a schools' bus fleet.

Signed:

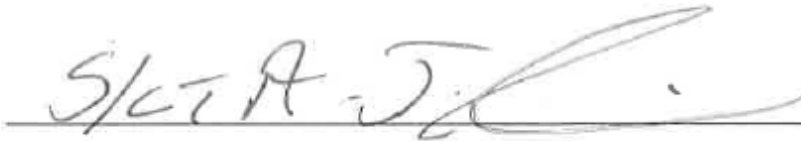


Captain Ray E. Martin, Commander

Ohio State Highway Patrol

Licensing and Commercial Standards

Signed:



Staff Lieutenant Aaron J. Reimer, Commander

Ohio State Highway Patrol

Licensing and Commercial Standards

Signed:



Sergeant Corey W. Pennington, MVI Coordinator

Ohio State Highway Patrol

Licensing and Commercial Standards



OHIO DEPARTMENT OF PUBLIC SAFETY
OHIO STATE HIGHWAY PATROL

**APPLICATION FOR A PRIVATE PUPIL TRANSPORTATION
LICENSE FOR THE OPERATION OF A SCHOOL BUS**

(Ohio Revised Code Section 4511.763 AND Ohio Administrative Code 4501-1)

NAME OF SCHOOL / COMPANY (As it will appear on license)			
BUSINESS ADDRESS (Number and Street)			
CITY	STATE	ZIP CODE	COUNTY
PHONE #		FAX #	
E-MAIL ADDRESS			

TYPE OF BUSINESS ENTERPRISE – Check applicable block

<input type="checkbox"/> Private Contractor	<input type="checkbox"/> Head Start Program	<input type="checkbox"/> Parochial School
<input type="checkbox"/> Day Care Center	<input type="checkbox"/> Governmental	<input type="checkbox"/> Community School
<input type="checkbox"/> Private School	<input type="checkbox"/> Other: Describe	

NAME AND ADDRESS OF SCHOOL/COMPANY PRINCIPAL, PRESIDENT, ADMINISTRATOR, ETC.

NAME	COMPLETE ADDRESS	TITLE

In accordance with the provisions of OAC 4501-1-1, a Bureau of Criminal Identification and Investigation report must be on file and a copy forwarded to this office with the application for each person noted above. This report must be current within the last 90 days.

CERTIFICATION – The applicant certifies the information contained herein is true, and agrees that any untruthful representation shall be sufficient grounds for refusal to issue a license or cancellation of the license.

PRINT NAME OF APPLICANT	
SIGNATURE X	
TITLE	DATE
NOTARY PUBLIC	EXPIRATION DATE

(OSP-203 16-04)

Mail completed application to:

OHP 0176 4/15 HP-32F [760-0373] Page 1 of 2

OHIO STATE HIGHWAY PATROL
OFFICE OF LICENSING AND COMMERCIAL STANDARDS
1970 W. Broad Street, 4th Floor
P.O. Box 182074
Columbus, OH 43218-2074

APPLICANT DO NOT WRITE IN THE SPACE BELOW

DATE APPLICATION RECEIVED	
REVIEWED BY	
APPROVED: <input type="checkbox"/> YES <input type="checkbox"/> NO	DATE
DATE LICENSE ISSUED	
LICENSE #	

Once the license is issued, an audit of your company/school and an inspection of all school buses will be performed prior to the authorization/operation on any school bus per Ohio Administrative Code 4501-1.

For additional information on the laws and code regulating the operation of school buses:
www.codes.ohio.gov/ and www.ode.state.oh.us



OHIO DEPARTMENT OF PUBLIC SAFETY
OHIO STATE HIGHWAY PATROL

**ANNUAL SCHOOL BUS AND SCHOOL BUS DRIVER STATUS
REPORT FOR LICENSE RENEWAL**

PRIVATE PUPIL TRANSPORTATION LICENSE #	I.R.N.
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To comply with Ohio Revised Code Sections 3327.10, 4511.76, 4511.763, and 4511.764, complete all captions and mail to: Ohio State Highway Patrol, Office of Licensing and Commercial Standards, 1970 West Broad Street, Columbus, Ohio 43223.

SECTION 1

SCHOOL / COMPANY NAME			
ADDRESS			
CITY	STATE		ZIP CODE
COUNTY	TELEPHONE #		
E-MAIL ADDRESS	FAX #		

SECTION 2 – LIABILITY INSURANCE – O.A.C. Rule 4501-1-06

NAME OF INSURER		
ADDRESS		
CITY	STATE	ZIP CODE
EFFECTIVE DATE	EXPIRATION DATE	

ATTACH CURRENT COPY OF CERTIFICATE OF INSURANCE. In accordance with O.A.C. Rule 4501-1-06, minimum umbrella coverage of \$1,000,000.00 or itemized minimum coverage in the following amounts is required:

BODILY INJURY \$500,000.00 per person, \$1,000,000.00 per occurrence.
PROPERTY DAMAGE \$500,000.00 per occurrence.
MEDICAL PAYMENT \$5,000.00 per person.

SECTION 3 – PERFORMANCE BOND – O.A.C. Rule 4501-1-07 (Contractor Only) – Minimum Bond \$1,000.00 / Bus (Contracted Route) ATTACH CURRENT COPY OF PERFORMANCE BOND.

NAME OF BOND PROVIDER		
ADDRESS		
CITY	STATE	ZIP CODE
TOTAL AMOUNT OF CURRENT BOND	EFFECTIVE DATE	EXPIRATION DATE

SECTION 4 – DRIVER INFORMATION

Number of drivers currently on roster		
Current T-8 medical forms have been completed for each driver	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A current pre-service certificate is on file for each driver	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A current driver abstract is on file for each driver	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A current BCI & I Report is on file for each driver	<input type="checkbox"/> Yes	<input type="checkbox"/> No
In accordance with the provisions of OAC 3327.10, all records listed above have been electronically filed with the Ohio Department of Education.	<input type="checkbox"/> Yes	<input type="checkbox"/> No

(It is not necessary to submit paper copies of these documents, noted in Section 4, to this office).

SECTION 5

OWNER / ADMINISTRATOR INFORMATION
OWNER / ADMINISTRATOR INFORMATION
OWNER / ADMINISTRATOR INFORMATION

In accordance with the provisions of O.A.C. 4501-1-05, a current BCI & I report is on file for each owner/administrator. A new BCI & I report must be submitted every two years for each owner/administrator.

SECTION 6

NUMBER OF SCHOOL BUSES OWNED	NUMBER OF SCHOOL BUSES CURRENTLY DISPLAYING VALID SCHOOL BUS INSPECTION DECAL
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SECTION 7 – CERTIFICATION

I certify that the information herein is true and understand that any false information will be sufficient cause for revocation of my license to transport pupils to and from school.

NAME (Printed)	
SIGNATURE OF APPLICANT	DATE
X	

APPLICANT DO NOT WRITE IN SPACE BELOW

DATE STATUS REPORT RECEIVED	REVIEWED BY		
APPROVED <input type="checkbox"/> YES <input type="checkbox"/> NO	DATE	DATE LICENSE RENEWED	DATE LICENSE EXPIRES