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Dear Driver:

Thank you for your interest in becoming an Alabama school bus driver. Alabama school bus statistics indicate that roughly 80% of all school-age children will be transported in a school bus at some point during the school year. Because we are responsible for transporting so many young people, we must always strive for perfection.

Alabama school bus drivers are members of an elite group of drivers, boasting one of our nation’s best safety records. Nevertheless, we cannot afford to rest on past accomplishments. Remember that as you drive your school bus, you are constantly making life and death decisions.

Though driving a school bus will at times be very demanding, it will also be very rewarding. Best wishes as you continue to pursue your school bus driving career.

Sincerely,
Joseph B. Morton
State Superintendent of Education
School bus transportation is an integral part of today’s educational system. The school bus driver is expected to present a strong role model for children, as well as represent the school district before the public. If the school bus driver sets an example of good driving practices, his attitude of professional responsibility encourages the development of social responsibility among students. Likewise, good driving practices promote general public confidence in school personnel and programs.

The first and highest priority is the safe delivery of students to and from school. The safety of every student depends on the judgment and skill of the school bus driver. With this in mind, the driver must accept the responsibility for the lives of many young people.

To be a good school bus driver, one must be an informed employee. This handbook has been developed to provide basic facts regarding the operation of school buses for drivers employed by local boards of education in the state of Alabama. Used as an educational tool and reference manual, this handbook presents information which every school bus driver needs to know; however, it is not intended to take the place of any official publication.

Joe Lightsey
Director
Pupil Transportation
Alabama Department of Education
Requirements to Drive a School Bus in Alabama

Anyone twenty-one years old or older wishing to drive a school bus in the state of Alabama must obtain a Commercial Driver License (CDL) issued by the Alabama Department of Public Safety (DPS) and an Alabama School Bus Driver Certificate issued by the Alabama Department of Education.

**HOW TO GET A CDL**

In order to receive a CDL to drive a school bus, a prospective school bus driver must secure a Third Party Tester Form. This form can be secured from any CDL office in Alabama. The form is given to drivers who do not currently hold a CDL, need to upgrade their CDL, or need to add passenger (P) or school bus (S) endorsements. In order to be issued this form, prospective school bus drivers must pass four written CDL tests at the CDL office. These tests include General Knowledge, Air Brakes, Transporting Passengers, and School Buses.

Study materials for these four tests can be found in the Alabama Commercial Driver License Manual. This manual can be secured from any local driver license office or any CDL office. In preparation for the four tests noted above, the prospective driver should study sections 1-5 and section 10 in the CDL manual. There is a fee for taking the written tests. There is no fee for performance testing. Upon passing these written tests, the prospective driver will be issued the Third Party Tester Form. **The prospective driver must bring this form to the SDE New School Bus Driver Certification Class.**

**HOW TO GET AN ALABAMA SCHOOL BUS DRIVER CERTIFICATE**

In order to receive an Alabama School Bus Driver certificate, a prospective school bus driver must meet the following requirements:

1. Complete an Alabama School Bus Certificate application and discuss with local supervisor.
2. Receive a minimum of 4 hours of training from local school system transportation officials before enrollment in the SDE School Bus Driver Certification Class. Only drivers who receive this training and produce a properly signed training certification form will be scheduled for performance testing.
3. Attend a 12-hour SDE New School Bus Driver Certification Class taught over a period of three days. Normally, a portion of a fourth day is required for performance testing.
4. Score at least 80% on a written test given at the conclusion of the three-day class.
5. Pass a three-part performance test including:
   - (A) Pretrip inspection of a school bus with at least 80% mastery.
   - (B) Basic Control Skills Tests. These are backing and forward stop-line tests.
   - (C) On-the-road Driving Skills Test with at least 80% mastery.

In order to enroll in an SDE class and be performance tested, all prospective drivers must be assigned to the SDE new driver class by a local school system transportation supervisor. **All CDL performance testing for school bus drivers is done by the SDE.**

**HOW TO KEEP AN ALABAMA SCHOOL BUS DRIVER CERTIFICATE**

In order to maintain their school bus driver certification, school bus drivers are required to participate in a 4-hour recertification class. These classes are scheduled in all school systems and are taught between January 1 and October 31 annually. **All bus driver certificates expire annually on December 31.** Drivers who have attended a recertification class are issued an Alabama School Bus Driver Certificate for the next calendar year. Drivers who fail to attend a recertification class must repeat the new driver training. An Alabama School bus driver may have his/her Alabama School Bus Driver Certificate suspended and/or revoked when there is a danger to the public safety or welfare of schoolchildren or when the certificate holder has been found guilty of immoral conduct or unbecoming or indecent behavior. This includes, but is not limited to, confirmed improper drug use, criminal convictions, failure to use the driver seat belt, unsafe driving history, being uninsurable, or other just cause as determined by the state superintendent of education.

**WHO TO CONTACT**

Anyone wishing to drive a school bus in Alabama should contact the local system transportation supervisor. A listing of these supervisors can be found at [www.alsde.edu](http://www.alsde.edu) under “Sections” or by contacting the Alabama Department of Education, Pupil Transportation Section at 334-242-9730.
There are many laws, rules, and regulations, both State and Federal, which apply generally to all motor vehicles, as well as specific ones which apply only to school buses and their operation. Many of these laws and regulations will be covered throughout this manual under the various areas where they specifically apply.

**Alabama Laws**

Very few laws have been passed by the legislature of Alabama specifically covering school buses and their operation. Instead, the responsibility for the student transportation system has been delegated to the Alabama State Board of Education and the Alabama State Department of Education. A copy of this law is reproduced here. Many of the elements necessary for the safe transportation of students are contained in this law.

**Chapter 27, Title 16, Code of Alabama**

**Transportation of Students**

**16-27-1 State board of education to prescribe rules and regulations**

The State Board of Education shall prescribe rules and regulations:

(1) Requiring all local boards of education which provide transportation services for students going to and from public elementary and secondary schools of Alabama or in school-related activities, and the presidents of all state and community, junior and technical institutes, and trade schools which provide transportation services for students going to and from said technical institutes and trade schools or community, junior, and technical colleges to employ a competent supervisor or manager of such transportation services, whether such transportation services are provided in publicly owned or privately owned buses.

(2) Requiring periodic safety inspection of all vehicles used for transporting students, whether such vehicles are publicly or privately owned.

(3) Requiring and providing for special training and licensing of drivers of all vehicles used to transport students to and from school and in all school-related activities, whether such vehicles are publicly owned and operated under contract with a private owner.

**16-27-2 Transportation of community, junior and technical college, etc., students on public buses**

(a) A student attending a state community, junior and technical college, technical institute or trade school shall be entitled to receive transportation on a public school bus provided that no community, junior and technical college, technical institute or trade school bus service is available to such student, such student lives along a route usually served by a public school bus and there is space available in such public school bus for safe operation with additional students.

(b) The county boards of education whose school buses are being used shall adopt such rules and regulations necessary to carry out the provisions and intent of this section.

**16-27-3 Safety inspections by state school bus inspectors; reporting andremedying deficiencies; records and reports**

(a) Safety inspections provided for in the rules herein above mentioned shall be made by authorized, qualified state department of education employees and shall be made at least once each year and more often when, in judgment of the State Superintendent of Education, such inspections should be made. The State Director of Public Safety shall advise and consult with the State Department of Education relative to the type and manner of inspections to be made and the scheduling thereof. When a safety check by a state school bus inspector indicates that a bus does not meet
the safety standards set up by the state board of education, the inspector shall immediately report this fact to the local board of education using such bus. The report shall define the deficiency and prescribe the immediate status of the bus regarding its use; and any bus found by the inspector to be unsafe for operation shall not be used to transport students until appropriate repairs have been made. Any restrictions placed on a bus by an official inspector can be lifted only:

1. when a follow-up inspection reveals that the deficiency has been removed; or
2. when the local superintendent of education certifies to the state department of education that the prescribed repairs or corrections have been made.

3. Records and reports relative to such inspections and corrections shall be made on forms prescribed by the state board of education. Such records and reports shall be maintained on file by the local board of education for a minimum period of one year.

16-27-4 Licensing of Drivers

Regulations made pursuant to an order of the board of education requiring and providing for special training and certification of drivers of vehicles used to transport students to and from school shall require an applicant for a school bus driver certificate to be the holder of a currently valid commercial driver license and to complete a minimum of 12 clock hours of approved instruction in school bus driving and to pass satisfactorily a written examination and also a driving performance test. The written examination shall be designed by the State Superintendent of Education with the cooperation of the State Director of Public Safety or a state trooper or any other representative of the State Department of Public Safety as the State Superintendent of Education and the Director of Public Safety agree, but the driving performance test shall be given by a state trooper or other representative of the State Department of Public Safety. The plan for the performance test shall, however, be submitted to and approved by the State Superintendent of Education before the performance test is given. If the applicant for a school bus driver certificate satisfactorily passes the test, the testing officer shall report this fact to the State Superintendent of Education and shall send a copy of such report to the local superintendent of education of the county or city where the applicant desires a job as a school bus driver.

Upon receipt of the testing officer’s report of an applicant having satisfactorily passed the examinations, the State Superintendent of Education shall issue a special school bus driver certificate. Certificates are valid for up to one year from date of issue. All certificates expire annually on December 31 and may be renewed for an additional year if the applicant attends a four clock-hour training session for school bus drivers conducted in such manner as the State Superintendent of Education prescribes. Such rules may also provide for the issuance of temporary permits or certificates for school bus drivers who have had a minimum of four clock hours of instruction conducted by representatives of a local board of education. Holders of such temporary certificates shall be employed only for the purpose of filling vacancies which develop between scheduled training periods, and such temporary certificates shall be valid for a maximum of six months only.

16-27-5 Monthly Safety Inspections

All local boards of education, all presidents of state community, junior and technical colleges, and all directors of state technical institutes and trade schools which provide transportation services for students or students going to and from public elementary and secondary schools, community, junior and technical colleges or technical institutes and trade schools, and in school or college-related activities shall have safety inspections made of all vehicles used for such transportation at least once each month, whether such vehicles are publicly owned and operated or privately owned and operated under contract between the board of
education, board of trustees or other governing body of a community, junior and technical college and the owner of vehicle. All safety inspections made hereunder shall be made by qualified mechanics in accordance with standards and rules established by the State Board of Education.

16-27-6. Seatbelts

No school bus shall be operated on a public street, highway or elsewhere unless it shall be equipped with a seatbelt for the driver.

The driver of a school bus shall wear a properly fastened seat belt at all times. Failure of a bus driver to comply with this requirement shall be prima facie evidence of nonfeasance of duty, and any driver who fails to comply with this requirement shall be subject to dismissal.

Every contract between a board of education and a school bus contract operator shall contain a clause requiring the driver of a school bus to wear a properly fastened seat belt when the bus is being used for the transporting of students on a public street or highway or elsewhere. Failure of any driver to comply with this requirement shall constitute a breach of contract on the part of the contract operator.

16-27-7 Liability Insurance

The State Board of Education, each governing board of Alabama public senior universities, and each city and county board of education shall provide vehicle liability insurance for bus drivers or any other employee who is required to transport students. Said vehicle liability insurance shall cover personal liabilities of bus drivers or any other employee who is required to transport students. Said liability insurance shall be applicable to moving vehicular accidents only.

School boards and other agencies covered by this section shall be deemed to be in compliance with the requirements of this section by either purchasing a liability insurance policy naming drivers as insured, or if the employing board elects not to purchase a policy, by reimbursing individual employees for amounts necessary to add “drive other car broad form liability” riders to their individual vehicle liability insurance policies, to the limits specified by the employing board or agency.

The provisions of this section shall also apply to the Alabama Department of Youth Services and the Alabama Institute for the Deaf and Blind. (Acts 1984, No. 84-191, p.300)

Other Alabama Laws

Alabama’s motor vehicle laws are all primarily covered in Title 32, Code of Alabama. These laws apply to all motor vehicles including school buses. Since it is impossible and not necessary to discuss all these laws, only the laws which specifically apply to school buses or school bus drivers will be mentioned.

Overtaking and Passing of a School Bus

When a motorist encounters a school bus that has stopped to pick-up or drop off children on a highway, roadway, school property or private road, the driver must come to a complete stop. Whether meeting the bus head on or attempting to go around either side, if there is a visual signal as specified in Act # 2006-311, the motorist can not proceed until the school bus resumes motion, the visual signals are no longer actuated, or until the motorist is signaled by the school bus driver to proceed.

On a divided highway with four or more lanes, which permits at least two lanes of traffic to travel in opposite directions, motorists do not have to stop when meeting a school bus that is loading or unloading in the opposing roadway. Nor does a motorist have to stop if the school bus is stopped in a loading zone which is a part of or adjacent to a highway where pedestrians are not permitted to cross the roadway. A divided highway is defined as a highway where the lanes are separated by an object intended to impede traffic from crossing.

If a driver illegally passes a school bus while the bus is stopped and the red flashing lights are activated, the school bus driver may report the offender to local police authorities. The offender may be determined using the driver license plate number or by being able to personally identify the driver. The red flashing lights should only be used during load or unloading.
Railroad Grade Crossings and Drawbridges

Every person operating any school bus carrying any school child or other passengers on any public highway in this state, before crossing the grade of any track or tracks of any railroad or upon approaching any draw bridge, known or marked as such, shall stop such vehicle not more than fifty (50) feet and not less than fifteen (15) feet of the nearest rail of such railroad or from the lip or draw of such bridge, and while so stopped shall listen and look in both directions along such track or railroad or channel of stream of any approaching train or boat, and for signals indicating the approach of train or boat, and shall not proceed until he can do so safely. After stopping as required herein, and upon proceeding when it is safe to do so, the driver of any such vehicle shall cross on in such a gear of the vehicle that there will be no necessity for changing gears while traversing such crossing and the driver shall not shift gears while crossing the track or tracks or any railroad or draw span of any draw bridge, provided, however, that such full stop shall not be required at any grade crossing or draw bridge protected by a watchman or traffic officer on duty, or by a traffic control “Stop and Go” signal giving positive indication to approaching vehicles to proceed.

All school bus drivers are responsible for referring to the Alabama Driver’s Manual issued by the State Department of Public Safety for additional information pertaining to the control and safe operation of motor vehicles in general as well as school buses.

Background Checks

The Alabama Child Protection Act of 1999 requires state and national criminal history background checks on all first-time teachers and support personnel in both public and nonpublic schools (99-361). This act includes all newly-hired school bus drivers and certain other employees.

This act was passed by the Alabama Legislature to aid in protecting children from persons who may inflict physical or mental injury, abuse, sexual abuse, exploitation or maltreatment, or other mistreatment upon them.

All Alabama school systems are required to comply with this act. Therefore, all newly employed bus drivers and certain other employees must be fingerprinted and a background check must be conducted.

Federal Laws

The National Highway Traffic Safety Administration (NHTSA), Department of Transportation, has issued a highway safety program to all states known as Guideline 17, which “is designed to improve state programs for transporting students safely in urban and rural areas by setting requirements for proper and safe equipment; maintenance of equipment; selection, training and supervision of drivers and maintenance personnel; and administrative provisions in the field of pupil transportation.” The State of Alabama has accepted, adopted and is using Guideline 17 in their pupil transportation program. Many of the areas covered in Guideline 17 are the responsibility of supervisors at the State and system level. The following are selected portions of Guideline 17: Different federal agencies have given a variety of definitions to what they consider a school bus to be legally. Generally, the accepted definition is as follows:

All vehicles which are designed to carry more than 10 passengers, including the driver, and which are sold for purposes that include carrying students to and from school or related events.

The compliance with and enforcement of most of these rules are not the direct responsibility of the individual driver. However, general knowledge of these requirements by the driver can help improve and maintain a high level of safety and efficiency by reporting any discrepancies to the appropriate supervisor.

Guideline 17 states that anyone who drives a school bus should have as a minimum, a valid driver license and meet specific physical, mental, and moral requirements as established by the State Superintendent of Education. Prospective drivers should discuss past traffic records with the local transportation supervisor.

A school bus must be identified with the words “School Bus” in letters not less than 8 inches high located between the signal lamps in the front and back of the bus located as high as practicable with no other lettering on the front and back of the bus. The bus should be painted National School Bus Glossy Yellow except for the bumpers, which shall be lusterless black.

Guideline 17 also requires buses to have a system of signal
lights as are currently on Alabama school buses. The bus must also have a system of mirrors that will give the seated driver a view of the roadway to each side of the bus, and of the area immediately in front of the front bumper.

When a school bus is being operated on a public highway and is transporting primarily passengers other than school students, it should have the words “School Bus” covered, removed, or otherwise concealed, and the stop sign and student loading/unloading signal lamps should not be used.

Guideline 17 also covers many other areas of concern which can lead to a safer pupil transportation system. One such requirement is that each pupil transported in a school bus should be instructed in safe riding practices, and should participate in emergency evacuation drills at least twice during the school year.

Under the general heading of vehicle operation and maintenance, Guideline 17 requires the State of Alabama to develop plans for minimizing highway hazards to school bus occupants in many ways including, but not limited to:

1. Careful planning and annual review of routes for safety hazards.
2. Providing loading and unloading zones off the main traveled part of highways, wherever it is practical to do so.
3. Establishing restricted loading and unloading areas for school buses at or near schools.
4. Requiring the driver of a vehicle meeting or overtaking a school bus that is stopped on a highway to load or unload students to stop his vehicle before it reaches the school bus and not proceed until the warning signals are deactivated.
5. Prohibiting, by legislation or regulation, the operation of any vehicle displaying the words, “School Bus” unless it meets the equipment and identification requirements of this standard.
6. Use of red warning lights and stop sign for any purpose, and at any time other than when the school vehicle is stopped to load or unload passengers is prohibited.
7. Bus routing and seating plans shall be coordinated so as to eliminate standees when a school vehicle is in motion.
8. There shall be no auxiliary seating accommodations such as temporary or folding jump seats in school vehicles.
9. Drivers of school vehicles shall be required to wear occupant restraints (seatbelts) whenever the vehicle is in motion.

Regardless of who sets the safety and operating standards or who is legally responsible for them, it is the school bus driver who is in a position to see that the rules and regulations are carried out. The school bus driver has the responsibility and obligation to work within these rules and report any known violation to a supervisor.

**Commercial Driver License**


The law requires states to meet the same minimum standards for commercial driver licensing. The standards require commercial motor vehicle drivers to get a commercial driver license (CDL). You must have a CDL to operate any of the following commercial motor vehicles (CMVs):

(a) A single vehicle with a gross vehicle weight rating (GVWR) of more than 26,000 pounds.
(b) A trailer with a GVWR of more than 10,000 pounds if the gross combination weight rating is more than 26,000 pounds.
(c) A vehicle designed to transport more than 15 people (including the driver).
(d) Any size vehicle that requires hazardous materials placards.

**Commercial Driver License Tests**
Knowledge Tests

You will have to take one or more written knowledge tests, depending on what class of license and what endorsements you need. The CDL knowledge tests include:

- **The General Knowledge Test**, taken by all applicants.
- **The Passenger Transport Test**, taken by all bus driver applicants.
- **The Air Brakes Test**, which you must take if your vehicle has air brakes.
- **The School Bus Test**, for drivers needing a school bus endorsement (49 CFR 383.3).

If you pass the required knowledge tests, you can take the CDL skills tests. There are three types of CDL skills tests: the pre-trip inspection test, the basic control skills test, and the road test. These are described below. You must take these tests in the type of vehicle for which you wish to be licensed.

Pre-Trip Inspection

**Purpose:** To see if you know if the vehicle is safe to drive.

**Test Procedure:** You will be asked to do a pre-trip inspection of your vehicle or to explain to the instructor what you would inspect and why. The instructor will mark on a scoring form each item that you correctly inspect or explain.

Basic Control Skills Test

**Purpose:** To evaluate four basic skills in controlling the vehicle.

**Set-Up:** The test set-up consists of various exercises marked out by lines, traffic cones, or something similar. The exercises may include turning the vehicle or moving it forward and backward.

The instructor will explain to you how each exercise is to be done. You will be scored on how well you stay within the exercise boundaries and how many pull-ups you make when backing.

Road Test

**Purpose:** To evaluate your ability to drive safely in a variety of on-the-road situations.

**Test Procedure:** The test drive is taken over a route specified by the instructor. It may include left and right turns, intersections, railway crossings, curves, up and down grades, rural or semi-rural roads, city multilane streets, expressway driving, loading and unloading students, R/R crossing, and emergency stopping.

You will drive over the test route following instructions given by the instructor. The instructor will score specific tasks, such as turns, merging into traffic, lane changes, and speed control, at specific places along the route. The instructor will also score whether you correctly do tasks such as signaling, searching for hazards, controlling speed, and lane positioning.

Alcohol and Other Drug Testing

The Omnibus Transportation Employee Testing Act of 1991 requires alcohol and drug testing of safety-sensitive employees in the aviation, motor carrier, railroad, and mass transit industries. This Act did not include bus drivers. However, Part 382, Title 49 was added to the Act which would include school bus drivers. Final guidelines were issued on February 15, 1994.

**These are five possible tests involved:**

1. Pre-employment;
2. Post-accident;
3. Reasonable suspicion;
4. Random;
5. Return to duty/follow-up.

Other Safety Act Rules

There are other Commercial Motor Vehicle Safety Act rules that affect drivers.

- All states will be connected to one computerized system to share information about CDL drivers. The states will check drivers’ accident records and be sure that drivers do not get more than one CDL.

- Anyone who holds a CDL automatically agrees to chemical analysis. Consent is implied by driving a commercial motor vehicle on the streets and highways of Alabama. A commercial driver who willfully refuses a chemical analysis will lose his driving privilege immediately for at least 10 days and if he/she has an alcohol concentration of 0.04 percent or more, the
driver will be disqualified from driving a CMV (commercial motor vehicle) for one (1) year. You will lose your license for life upon conviction of a second offense. If your alcohol concentration is less than 0.04 percent but you have any detectable amount on your breath, you will be put out of service for 24 hours.

- You must notify your employer within 30 days of a conviction for any moving traffic violation. This is true no matter what type of vehicle you were driving at the time the citation was issued.
- You must notify your employer if your license is suspended, revoked, or canceled, or if you are disqualified from driving.
- Upon applying for a position requiring a CDL, you must give your employer information on all commercial driving jobs you have held for the past 10 years.
- Your employer cannot knowingly let you drive a commercial motor vehicle if you have more than one license or if your CDL is suspended or revoked.

### Test on Laws and Regulations

**True or False**

1. **Guideline 17** is a State guide issued to the individual school bus drivers covering student discipline.

2. A minimum of 12 clock hours of instruction, passing a written test and driving tests are required before a person can become a certified school bus driver.

3. It is the school bus driver’s responsibility to attend a SDE class each calendar year.

4. A school bus carrying children need not stop at railroad crossing tracks if the driver is certain that no trains are approaching.

5. A school bus must stop at all railroad crossings, no nearer than 15 feet to the nearest rail and no further away than 50 feet.

6. A school bus driver could lose his/her job by driving the bus without wearing a safety belt.

7. The State Department of Public Safety is responsible for making school bus safety laws.

8. Under no circumstances can students attending state community, junior, technical college or trade schools ride on a regular public school bus.

9. State law requires that traffic stop for school buses loading or unloading only on two-lane roadways.

10. The requirements to drive a school bus in Alabama include having a valid commercial driver license, be 21 years old or older, and possess an Alabama School Bus Driver Certificate.

11. School bus drivers are not required to take or pass alcohol or other drug tests.

12. School bus drivers must have a CDL in addition to a regular driver license.
School bus drivers are the most important people in school bus transportation. The safety of their passengers must always be their top priority. Dedicated and committed school bus drivers are essential to safe school transportation. School bus drivers should be of high moral character. They should always conduct themselves in such a manner that their actions on and off duty will not be open to criticism. As a model for their passengers and a representative of the school system, their conduct and appearance should contribute to mutual respect and pleasant relations with their passengers, parents, and fellow motorists.

In addition to skill and knowledge, drivers must have a sound, wholesome attitude about the responsibilities of a school bus driver. A person with a good attitude usually makes a good driver. Poor attitudes usually produce poor drivers.

You, the driver, are the most important person in school bus transportation. The safety of your passengers is in your hands.

School bus drivers must be mentally alert at all times. They must keep their concentration on what they are doing, and be prepared for any emergency.

A school bus driver must be a defensive driver, one who is careful not to commit driving errors; who makes allowances for the lack of skill, lack of knowledge, or improper attitude on the part of the other driver; and who does not allow hazards of weather and road conditions or the actions of pedestrians and other drivers to involve him in accidents. He keeps continually on the alert, recognizes an accident-producing situation far enough in advance to apply the necessary preventive action, and yields right-of-way whenever necessary to prevent or avoid an accident.

A defensive school bus driver must exercise self-control, alertness, foresight, judgment, and skill in handling and maintaining control of the bus at all times. A good attitude about defensive driving and safety procedures is the best guarantee of the safest trip possible.

The bus driver’s basic responsibility is to transport students to and from school safely.

The school bus driver shall not use or allow the use of a school bus for any purpose other than transporting assigned passengers to and from school for a regularly organized school day unless directed by the supervisor. In transporting assigned passengers, the following rules should be observed:

1. Load or unload a passenger only at regularly designated stops except upon permission of the parent and the principal.
2. Allow only assigned passengers to ride the bus unless permission is granted by the principal or transportation supervisor.
3. Refrain from stopping along the bus route at stores and service stations unless those locations are the regularly designated stops.
4. Drive the bus directly to its regular parking place after the last passenger has been unloaded. Stopping on the way home is not allowed.
5. Allow nothing to distract you from your driving. Smoking, chewing tobacco, eating or drinking, use of radios, tape recorders, cell phones, and other electronic devices cannot be allowed by students and bus drivers.
These requirements may necessitate extra effort on the part of the driver, but they are essential to a safe and pleasant trip. Schools operate on a regular schedule, and promptness in arriving at school shows dependability and builds good will with students, parents, and principals.

Since the safety of the students is the greatest concern, drivers need to consider every possible variable that may become a safety liability. One of those variables is the type of footwear and/or clothing a bus driver chooses to wear while driving. Footwear that is backless and/or does not cover the entire foot could cause the driver to become distracted and become involved in a collision. Types of footwear that may cause distractions are flop-flops, sandals, backless “Berks”, etc. Bulky gloves, coats, hats, and large jewelry can also be safety hazards. School bus drivers should check local school system dress codes.

Another variable school bus drivers need to consider is objects brought onto the bus by students. Any object allowed onto the bus should also be kept out of the aisle. Some objects such as band instruments, student projects, balloons/flowers, etc., may be so large that they distract the driver or block the driver’s view. School bus drivers need to check local school system policy as to what will and will not be allowed on the school bus.

Operating on Schedule

The secret of operating on schedule is to leave home at the same time each morning, drive at a reasonably safe speed, encourage passengers to be prompt, and **stop at all student pick-up points on the way to school**. The following procedures will help you, the driver, to maintain the schedule:

1. Time yourself so you can arrive at the stops about the same time every morning.
2. Arrive at school each morning at about the same time. Time of arrival will be at the direction of the principal.
3. Unusual weather or road conditions will require more time than usual. When these conditions exist, advise students of schedule changes.
4. If late, do not try to make up lost time by driving faster than a safe speed.
5. Encourage students to be prompt. They should be at their designated stop, ready to board the bus when it arrives.

Maintaining Proper Passenger Conduct

If drivers explain existing rules at the beginning of the school year, they usually will have the cooperation of students. If students know drivers are fair and have their safety in mind, they usually accept the rules. Drivers should recognize each child’s individuality. Drivers cannot maintain discipline and respect if they are too harsh or too lenient. Drivers who handle problems fairly and according to the rules get the respect of students, parents and administrators.

Be Assertive!

Standing Passengers

No passenger should be standing on a school bus. During the first few days of school, you may have more passengers than seats. This problem should be reported and corrected immediately. All passengers should be seated entirely within the confines of the school bus seats while the bus is in motion.

Standing while school buses are in motion should not be permitted. Routing and seating plans should be coordinated so as to eliminate passengers standing when a school bus is in motion. (Guideline 17) Federal regulations do not specify the number of persons that can sit on a school bus seat. The school bus manufacturers determine the maximum seating
capacity of a school bus. Due to the variation in sizes of children of different ages, state and school districts should exercise judgment in deciding how many students are actually transported in a school bus.

**Reporting Mechanical Defects**

You should report needed repairs to the mechanic’s supervisor as soon as possible. Most systems have a sign-in sheet on which needed repairs can be noted with less chance of their being overlooked. Do not be hesitant to report suspected problems.

**Cleaning the Bus**

You are responsible for keeping the school bus clean. A clean bus aids greatly in maintaining discipline and promotes a good image of school transportation in the community.

**Keeping Records**

Certain daily and monthly records and reports must be kept by you and submitted to the supervisor. The supervisor will advise you on methods of keeping and submitting records and reports. Some of these reports include pre-trip inspection, fuel consumption and mileage, student counts, route maps, etc.

**Responsibility for Safe Driving**

A school bus is longer, wider, and heavier than a car. Driving it requires greater preparation, thought, and care.

The procedures set forth in this section are intended to promote the safety and comfort of school bus passengers and to ensure that they arrive at school each day ready to learn as much as they can.

On an activity bus, the passengers may take along baggage if it is secured and the driver and other occupants can move freely and easily. Riders must be able to use all exits and be protected from falling or shifting packages. No extra seats may be added to the bus. The aisle must be kept clear at all times.

**Riding in the bus with you are several dozen children whose lives are in your hands and who depend on your good judgment.**

**Vehicle Breakdown — Triangle Reflectors**

If the school bus breaks down, the school bus driver should assess the situation and determine whether or not an emergency evacuation should be conducted (see Emergency Evacuation in Chapter 8). If possible, the school bus driver should get the bus off the roadway in a safe place and activate the hazard lights.

The driver should immediately contact the school bus shop to inform them of the exact location and the problem with the bus.

If triangle reflectors are to be placed, use the following diagrams:

**TWO-LANE HIGHWAY**

\[ \Delta 100-500' \]

\[ \Delta 10' \]

\[ \Delta 100-500' \]

**FOUR-LANE HIGHWAY**

\[ \Delta 10' \]

\[ \Delta 100' \]

\[ \Delta 200-500' \]
Care and Maintenance of the School Bus

The life a school bus and the dependable service that it can render depend on how the driver treats the bus. Daily inspection and expert handling will prolong the life of the bus and increase the quality of the service it gives.

While the driver should never attempt to make repairs himself, he must be constantly alert to the mechanical condition of the bus and should report any mechanical defect to the supervisor.

Each school system transportation supervisor is responsible for keeping every bus in his system in safe operating condition. This does not excuse the bus driver for operating a bus with a known mechanical defect. Drivers should respect the judgments and suggestions on care and maintenance of equipment given by mechanics.

Vehicle Inspection: Why Inspect?

Safety

Safety is the most important and obvious reason for performing inspections. Inspecting your vehicle helps you to know your vehicle is safe.

Legal Requirements

Federal and state laws and school bus regulations require that school buses be inspected. A school bus also is subject to inspection by state and federal agencies. Alabama state law requires inspection of the bus by the driver, as well as a monthly inspection by certified mechanics at the local bus shop.

Types of Vehicle Inspection

Pre-Trip Inspection

You must perform a pre-trip inspection before each trip to find problems that could cause a crash, breakdown or other unsafe condition.

School bus drivers are legally required to document the pre-trip inspection before beginning the route/trip.

During a Trip

For safety sake you should:
1. Watch all gauges for signs of trouble.
2. Use your senses to check for problems (look, listen, smell, and feel).
3. Check critical items when you stop:
   a. Brakes. This is the most important item to check in the pre-trip inspection.
   b. Lights.
   c. Cargo securing devices (on activity trips).

Post-Trip Inspection and Report

You must perform a post-trip inspection at the end of each trip, day, and work shift. It may include filling out a vehicle condition report listing any problems you find. It includes checking the bus for students and locking the bus down. (Locking the bus down involves bleeding the air out of the air tank(s) until the spring brake applies and the air valve pops out.)

A 10-Step Inspection Method

Method of Inspecting

You should do a pre-trip inspection the same way each time so you learn all the steps and be less likely to forget something. The following 10-step procedure should be a useful guide. Having a routine procedure for inspecting the bus will eliminate the need to carry a pre-trip inspection checklist around with you as you inspect the bus. Documentation of the inspected items should be done upon the completion of the inspection. (Keep the inspection reports on the bus until you turn them in to the Transportation Office.)

Step 1 Vehicle Overview

Approaching the Vehicle.

Notice general condition. Look for damage or the vehicle leaning to one side. Look under the vehicle for fresh oil, coolant, grease, or fuel leaks. Check the area around the vehicle for hazards to vehicle movement (people, animals, other vehicles, objects, low-hanging wires or limbs, etc.).
# Step 2: Check the Engine Compartment

Check that the parking brake is on and/or the wheels are chocked. You will have to raise or tilt the hood, or open the engine compartment door to perform these checks.

Check the following:
- **Engine oil level.** Above “add” mark.
- **Transmission fluid level.** Above “add” mark.

- **Coolant level in radiator.**
  Look at the sight glass or in the radiator itself; check condition of hoses. Never remove cap when engine is hot.

- **Windshield washer fluid.**

- **Power-steering fluid.** Above the “refill” mark. Check condition of hoses.

- **Learn how much “give”** the belts should have when adjusted correctly (no more than 1/2” of movement). Check each one.

- **Steering box and steering linkage.** Driver should look for missing nuts, bolts, cotter keys, power steering fluid leaks, and damage to power steering hose. Connecting links, arms, rods from the box to the front wheels should not be worn or cracked.

- **Shock absorber.** Should be secure, unbroken, and have no leaks.

- **Spring mount and leaves.** Mount should be secure with no cracks or breaks and broken, missing or loose bolts. Bushings and axle mounting parts should not be damaged, broken, or missing. Check for missing or broken leaves; leaves that have shifted and may be nearly in contact with the tire, rim, brake drum, frame, or body. For a coil spring, look for breaks or distortions.

- **Brake chamber and hoses.** Should be securely mounted and not be cracked or dented. Hoses should not be cracked, worn, or frayed, and couplings should be secure.

- **Slack adjuster.** Should have no broken, loose, or missing parts. The angle between the push rod and the adjuster arm should be about 90 degrees when parking brake is released. When pulled by hand, brake push rod should move no more than about 1” (front brake).

- **Brake drum.** Should have no cracks, dents, or holes and no missing or loose bolts. Brake linings should not be worn thin.

**NOTE:** Valves and brake shoes cannot be checked by the bus driver during the pre-trip inspection.
• **Wheels and rims.** Rims should not be damaged and have no welding repairs. Rust trails indicate that the rim is loose on the wheel. All lug nuts should be present and tight. There should be no cracks or distortion around the bolt holes. The hub oil seals, axle seals, and wheel bearing seals should not be leaking.

• **Tires.** Check for proper inflation. Check depth of tire grooves. Tread depth should not be less than 4/32” on front tires and 2/32” on the rear tires. No recaps may be used on the front. Recaps may be used on the rear. Tread must be evenly worn without cuts or other damage to the tread or walls. Valve caps and stems should not be missing or damaged. Retreads should not be separating from the tire.

• **Lower and secure hood** or engine compartment door.

---

### Step 4 Right Side of Vehicle

Check the following items:

- **Right side traffic mirror.** For security and cleanliness.
- **Passenger door.** For cleanliness and possible damage.
- **Reflectors and clearance lights.** Clean and unbroken.
- **Windows.** Clean and unbroken.

---

### Step 5 Under the Vehicle and Right Side Rear

Check the following items:

- **Fuel tank.** Should be secure with no leaks or damage. Cap should be secure.

**Suspension.** Condition of springs, spring mounts, shock absorbers, shackles, and U-bolts should be good.

**FRONT SUSPENSION**

1. Hydraulic Shock Absorber
2. Vehicle frame
3. Front Axle
4. Leaf Spring
5. Spring Mount

**REAR SUSPENSION**

1. Frame
2. Bearing Plates
3. Auxiliary Spring
4. Spring Hanger
5. Shackle
6. Main Spring
7. Axle
8. Torque Rod

---

Check the following items to see that nothing is wrong.

- **Passenger mirrors.** Should be secure, clean, and unbroken. The passenger mirrors are likely the most important pieces of safety equipment on the bus and are absolutely necessary to operate it safely. Children standing in front of the school bus may not be visible in any other way than by checking mirrors. Proper adjustment is essential to safety.

- **Lenses.** Clean and unbroken. None should be missing and they should be of the proper color.

- **Walking control arm.** Secure and not broken.
• **Brakes.** Drums, chambers, and slack adjusters should be in good condition. Hoses should not be worn.

• **Drive shaft.** Should not be bent or twisted. Universal joints should not be loose. Safety loops should be in place.

• **Frame.** No cracks or distortion should be evident in either the longitudinal or cross members.

• **Exhaust system.** Visible parts should be securely mounted without cracks, holes or severe dents. The muffler or pipes should not be touching wires, fuel hoses or air hoses.

• **Wheels and rims.** Rims should not be bent or damaged and should have no welding repairs. Rust trails may indicate that the rim is loose on wheel. All lug nuts should be present. There should be no cracks or distortion around the bolt holes. Spacers on dual wheels should be evenly separated and the tires should not touch each other. “Bud” or “Dish” wheels should have space between them and free of debris. The hub oil seals, axle seals and wheel bearing seals should not be leaking.

• **Tires.** Should be of same size, evenly matched and of the same type (radial or bias-ply). Tread depth, inflation, and wear should be normal.

• **Tailpipe.**

• **License plate.** Present, clean and secure.

• **Emergency door and holder.** Operational, clean, unbroken and seal intact.

### Step 7 Left Rear and Left Side

• **All items as on right side.**

• **Stop-sign.** Flashing red lights clean, unbroken, and secure. (Light should flash alternately.)

• **Battery.** Securely mounted and wires attached.

### Step 8 Passenger Entry

• **Door.** Operational, clean, and unbroken.

• **Stairwell.** Not bent, good tread, light working, and lens cover unbroken.

• **Handrail.** Present (required for a school bus), secure, undamaged, proper clearance.
• **First-aid kit.** Present (required for a school bus), secure, undamaged, and containing required items.

- **Body fluid clean-up kit.** Present, secure, undamaged, and containing required items.

- **Fire extinguisher.** Present (required for school bus), charged and of proper type (BC or ABC) for electrical and liquid-fuel fires. Ensure pin is in place. Remove extinguisher from its mounting bracket, shake it to mix chemical extinguishing agent.

- **Emergency reflectors.** Three present (required for school bus) and secure.

---

**Step 9: Inside Checks**

- **Check emergency exits and interior condition.**
  1. Turn ignition key to “on.”
  2. Turn on interior lights, if necessary, to see.

3. Check seats for vandalism, secure seat bottoms on way down aisle.
4. Open rear emergency door to see that warning buzzer and door are operational. Emergency door should always be secure when bus is moving and should not be blocked.

5. Check seats (secure to floor with no broken parts) on way back up the aisle.
6. Check emergency exit windows on sides and hatches in roof to see that they are operational and warning buzzer works.

7. Turn ignition key to “off.”

**Note:** On an activity bus the passengers may take along baggage if it is secured and the driver can move freely and easily. Riders must be able to use all exits and be protected from falling or shifting packages. No extra seats may be added. The aisle must remain clear at all times.
Schematic Diagram of Vehicle Equipment Check

**Front:**
- Crossing mirrors
- Crossing arm
- Windshield
- Current inspection sticker
- Directional/Hazard signal lights
- Top clearance lights
- Headlights

**Under the hood:**
- Power steering level
- Water pump and belts
- Air compressor
- Alternator
- Oil level
- Coolant level
- Transmission level
- Windshield washer fluid level

**Steering**
- Gearbox and linkage

**On the left:**
- Stop sign
- Other items as on right
- Battery box

**Engine start:**
- Safety belt
- Air buzzer sounds
- Ammeter/voltmeter
- Air brake check (LAB)
- Steering play
- Parking brake
- Mirrors
- Windshield/wipers/washer
- Lighting indicators
- Horn
- Heater/defroster
- Safety/emergency equipment
- Right passenger mirror
- Left passenger mirror

**On the right:**
- Brakes
  - Slack adjuster, air chamber, hoses, drums
- Wheels
  - Rims, hub oil seals, tires, lug nuts
- Suspension
  - Springs, spring mounts, shock absorbers

**Driver/fuel area**
- Door, mirror, fuel tank leaks

**Under vehicle**
- Drive shaft, exhaust system, frame

**Suspension**
- Spring, spring mounts, torsion/shocks

**Wheels**
- Rims, tires, axle seals, lug nuts, spacers

**Side**
- Lights, reflectors

**At the rear:**
- Lights
- Reflectors
- Windows
- Lettering
- Emergency door
- Exhaust pipe
- Handicap decal (if special needs bus)
- Top strobe light

### Adjustments in Preparing to Drive

- Set seat to comfortable position relative to steering wheel and pedals.
- Adjust all mirrors:
  a. Traffic mirrors (right and left).
  b. Inside rearview mirror.
  c. Passenger (crossover) mirrors (right and left) to cover the areas in the front and to the sides of the bus.
- Fasten seat belt. The driver must wear the safety belt at all times while driving.

### Start the Engine

- Listen for any unusual noises.
- Check the oil pressure gauge to see that it builds normally and no warning lights remain on. The gauge must come up to the first mark within a few seconds.
- Check the ammeter/voltmeter. The gauge will show
that the battery is charging and there should not be any warning light on.

- Note temperature gauge. Should not register “hot.”
- Check fuel gauge. Should show enough fuel to complete trip and return to fueling point.

**Check Condition of Controls**

- Check all of the following for proper functioning, cleanliness, looseness, sticking, damage and improper setting.

1. **Head lights** - Bright and dim. (Drive with headlights on day or night, rain or shine).
2. **Four-way flashers and indicators.**
3. **Horn** should be heard for at least 200 feet.
4. **The steering wheel** should have less than two inches (10%) of free play on a twenty inch wheel.
5. **Stop sign** should come out with lights and indicators flashing alternately.
6. **Yellow warning lights** should be operational when switch is engaged.
7. **Red flashing lights.** Should flash alternately in front and back. Should activate when door is cracked or opened and deactivate when door is closed. Walking control arm (if bus is so equipped) should swing out when stop sign comes out and swing in when the stop sign comes in.

8. **Interior lights.**
9. **Clearance lights.**
10. **Back-up lights.**
11. **Strobe light** (if bus is so equipped).
12. **Windshield and wipers** should be clean, clean, and free of cracks and illegal stickers. The rubber on the wipers should be solidly attached and should not be damaged or brittle. The wiper arms should have proper tension in the springs. Wiper and washer should work.
13. **Heater/defroster** should work on both high and low speed with all vents and air controls adjusted to heat the bus and clear the windshield.
14. **Clutch/Gearshift.**
15. **Back-up Alarm.**

**All warning buzzers and lights should be off before starting a trip.**

**Step 10 Brake Check**

**Hydraulic Brakes**

- Pump the brake pedal three times.
- Apply firm pressure to the pedal and hold for five seconds.
- See that brake pedal does not move. If it does, there may be a leak or other problem. Get it fixed before driving.

**Air Brakes**

- Check that air pressure on the gauge is in the 90 to 120 per square inch range.
- Test parking brake:
  a. Set the parking brake.
  b. Put the bus transmission in drive.
  c. See that the vehicle does not move.
- Shut off the engine.
- Turn ignition key to “on” position.
- Release parking brake. Be sure wheels are chocked.
• Check for leaks. You will fail the test automatically if you do not check for leaks. You also will fail if you do not check the air buzzer or the air brake button pop-out.
  a. Watch air gauge for one minute to ensure that pressure drops no more than 2 psi.
  b. Press brake pedal hard and hold for one minute, listening for air leaks and noting that the gauge drops no more than 3 psi.
  c. Pump the air pressure down to 60 psi and check that the warning buzzer and light come on before reaching 60 psi.
  d. Pump the air pressure down and check that the automatic brake lock button pops out before reaching 20 psi.

• Restart the engine.
• Check exterior lights with the aid of a helper, if possible, while the air pressure is building back up.

Service Brakes

• Drive forward at about five miles per hour.
• Push the brake pedal firmly.
• Note whether the bus pulls to one side or the other, indicating a problem.
• Note any unusual brake pedal “feel” or delayed stopping action that would indicate a problem.
• Never drive a bus if you think there is a brake problem.

If you find anything unsafe during the pre-trip inspection, get it fixed. Federal and state laws and school bus rules forbid operating an unsafe vehicle.

Post-Trip Inspection

Check the inside of the bus for passengers, books, clothing or materials which may have been left by students. If anything is found it should be stored until it can be returned.
1. Sweep the floor and steps of the bus.
2. Check the seats, window, and interior walls for damage or any markings and report or clean as may be necessary.

Faulty or improperly functioning equipment should be reported to the proper personnel.

Facilitate a clean bus attitude on the part of the students by enforcing clean bus rules and maintaining a clean bus. Periodically the bus interior and exterior should be washed, using soap and water. Using disinfectant on the interior occasionally is a good idea. This washing should include seats, windows, and windowsills.

Securing the Bus After the Route

Before leaving the bus after a trip, always do the following:
1. Use the air brake valve to bleed the air from the system until the spring brake is activated if the bus is equipped with air brakes.
2. Walk the aisle to be certain there are no students left on the bus.
3. Generally, drivers should remove the key from the ignition. Check with your local supervisor.

Public Relations

The school bus driver accepts certain responsibilities to the community he serves in addition to his responsibility to the students who ride his bus. He should recognize that there is a very definite value in knowing the parents of the students who ride his bus. Parents are interested in their children and
appreciate knowing the driver who is transporting them. Any interest displayed by the driver will cultivate respect for him on the part of the parents and will make the job of driving the school bus more enjoyable and successful.

Refer parents to the principal or supervisor for any request of change of stop, route, or schedule. Inform them of any developments affecting the operation of the school bus, such as change of schedule and days when the bus may be late. An understanding between parents and the driver will develop close harmony and make it possible for the driver to perform his duties more efficiently and safely.

The driver’s conduct, personal appearance, and appearance of the bus he drives leave an impression on parents, other motorists, and the general public. That impression should always be a good one.

### Common Driving and Driver Abuses

The following list of common driving and driver abuses is put in this handbook for the driver to study. Improving driving and inspection habits will prolong the life of the bus, making it perform better, and be a safer vehicle for passengers to ride.

1. **Engine Abuse:**
   - a. Engaging starter too long at one time.
   - b. Excessive acceleration of cold engine.
   - c. Operating overheated engine.
   - d. Operating engine with low oil pressure.
   - e. Racing engine.
   - f. Lugging engine.
   - g. Failure to keep checking instrument panel gauges.

2. **Lack of Maintenance Responsibility**
   - a. Driving bus even though it needs repairs.
   - b. Failure to report defects and needed repairs.
   - c. Failure to inspect equipment before each trip.

3. **Errors in Use of Brakes**
   - a. Failure to use parking brake properly.
   - b. Abrupt stops.
   - c. Delayed braking.

4. **Errors in Tire Care**
   - a. Operating with flat or under-inflated tires.
   - b. Driving over curbs, objects and into potholes.
   - c. Rubbing tires against curbs.

School bus drivers accept certain responsibilities to the community they serve in addition to their responsibility to the students who ride their buses.
# Test on Driver Responsibility

**True or False**

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<table>
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<tbody>
<tr>
<td>1.</td>
<td>The driver is considered a vital part of the overall educational team.</td>
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<tr>
<td>2.</td>
<td>The driver should not use tobacco while driving the bus.</td>
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<td>3.</td>
<td>It is not the driver’s responsibility to explain rules of conduct on the bus to students.</td>
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<td>4.</td>
<td>Personal appearance and dress are not related to the driver’s image.</td>
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<td>5.</td>
<td>It is not necessary for the bus driver to be friendly when dealing with people.</td>
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<td>6.</td>
<td>It is important that the driver exhibit emotional stability.</td>
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<td>7.</td>
<td>The driver must be on time no matter what the cost.</td>
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<tr>
<td>8.</td>
<td>The driver should never share information about students with other school personnel even when the student’s welfare is at stake.</td>
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<tr>
<td>9.</td>
<td>The driver should not try to become acquainted with parents unless it is absolutely necessary.</td>
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<tr>
<td>10.</td>
<td>It is important to race the motor when warming the engine.</td>
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<tr>
<td>11.</td>
<td>Left foot use of the service brake is the preferred braking method for school bus drivers who drive buses equipped with automatic transmissions.</td>
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<tr>
<td>12.</td>
<td>It is not necessary for the driver to make checks of the bus except when reports are due.</td>
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<tr>
<td>13.</td>
<td>Articles left on the bus should be ignored by the driver.</td>
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</table>
This section tells you about air brakes. You need this information for safe operation of air brakes on buses.

Two braking systems are commonly found on today’s school buses. They are hydraulic brakes and air brakes. Both braking systems incorporate antilock brake systems (ABS). The most common braking system in use is the air brake system. All newer buses are equipped with antilock brakes.

Most vehicles, including school buses, are coming out with ABS, otherwise known as anti-lock brakes. These facts will help acquaint you with anti-lock brakes. When the pedal is applied and the ABS is activated, the pedal may feel harder than usual. This is normal.

The pedal may seem to ratchet or pulsate (vibrate), or there could be a combination of these sensations. This is also normal. Finally, you may hear a noise that sounds like a motorboat engine. This is the hydraulic control unit operating — again normal.

Remember these important things when driving a vehicle with ABS brakes:

1. Maintain the same safe stopping distance from the vehicle ahead as with conventional brakes. ABS will not make the vehicle “stop on a dime.”

2. When emergency braking is necessary, do not pump the brake. Just apply firm, constant pressure and let ABS do the work. You may feel a slight vibration or hear noise as the hydraulic control unit functions. Continue to push the pedal further if it travels closer to the floor.

3. Remember, if the ABS light comes on while you are driving, you still have air brakes.

Air brakes use compressed air to operate. You can apply all the braking force you need to each of the wheels of a heavy vehicle. Air brakes are a safe way of stopping large vehicles if the brakes are well maintained and used correctly. However, you must know more about air brakes than you need to know with the simpler hydraulic brake systems used on many buses and on light vehicles. It is important for you to study this section.

Air brake systems consist of three braking systems combined: the service brake system, the parking brake system, and the emergency brake system.

The service brake system applies and releases the brakes when you use the brake pedal during normal driving.

The parking brake system applies and releases the parking brakes when you use the parking brake control.

The emergency brake system uses parts of the service and the parking brake systems to stop the vehicle in the event of a brake system failure.

**Parts of an Air Brake System**

There are many parts to an air brake system. You should know about the parts discussed here.

**Air Compressor**

The air compressor pumps air into the air storage tanks (reservoirs). The air compressor is connected to the engine through gears or a V-belt. The compressor may be independently cooled or may be cooled by the engine cooling system. Nothing should be in the air brake system but air. There should be no oil or water in the air brake system.

**Air Compressor Governor**

The governor controls when the air compressor will pump air into the air storage tanks. When air tank pressure rises to the “cut-out” level (around 120 pounds per square inch,
or “psi”), the governor stops the compressor from pumping air. When the tank pressure falls to the “cut-in” pressure (around 100 psi), the governor allows the compressor to start pumping again.

**Air Pressure Gauge (Supply Pressure Gauge)**

All air brake-equipped vehicles must have a pressure gauge connected to the air tank. The air pressure gauge on the bus gives a reading in pounds per square inch (psi). The reading on the gauge should be approximately 100-120 pounds per square inch. If the air pressure falls much below this level (at about 100 psi), the air compressor will begin pumping again. If the vehicle has a dual air brake system, there will be a gauge for each half of the system (or a single gauge with two needles). These gauges indicate how much pressure is in the air tanks.

**Air Storage Tanks**

Air storage tanks are used to hold compressed air. The number and size of air tanks varies among vehicles. The tanks will hold enough air to allow the brakes to be used several times even if the compressor stops working.

The rear air storage tank is normally right behind the differential housing. Note the air hoses. The front air storage tank will be forward near the transmission housing.

Remember that the number, size, location, and appearance of air storage tanks will vary from bus to bus.

**Safety Valve**

The first tank receiving compressed air is equipped with a safety valve. The safety valve protects the tank and the rest of the system from too much pressure. The valve is usually set to open at 150 psi. If the safety valve releases air, something is wrong. Have the fault fixed by a mechanic.

**The Dryer**

Moisture can build up in the storage tanks and brake lines, and the purpose of the drier is, obviously, to take as much of this moisture out of the system as possible. Its drying capacity is 30 quarts per month, which should take care of any need.

**Air Chamber**

Air chambers are located at each of the four wheel positions of the bus. Air from the storage tanks enters these chambers when you press the brake pedal. A special mechanism causes the brakes to lock up when there is an insufficient amount of air pressure.

**Slack Adjusters**

Over time a certain amount of wear will occur in any brake system. The slack adjusters at each wheel are designed to balance this wear.

**The Brake Pedal**

You apply the brakes by pushing down the brake pedal. (It is also called the foot valve, or treadle valve.) Pushing the pedal down harder applies more air pressure. Letting up on the brake pedal reduces the air pressure and releases the brakes. Releasing the brakes lets some compressed air go out of the system, so the air pressure in the tanks is reduced. It must be made up by the air compressor. Pressing and releasing the pedal unnecessarily can let air out faster that the compressor can replace it. If the pressure gets too low the brakes will not work and the emergency brake system will be activated.

When you push the brake pedal down, two forces push back against your foot. One force comes from a spring. The second force comes from the air pressure going to the brakes. This lets you feel how much air pressure is being applied to the brakes.

Foundation brakes are used at each wheel. The most common type is the drum brake.
Brake Drums, Shoes, and Linings

Brake drums are located on each end of the vehicle’s axles. The wheels are bolted to the drums. The braking mechanism is inside the drum. To stop, the brake shoes and linings are pushed against the inside of the drum. This causes friction that slows the vehicle (and creates heat). The heat a drum can take without damage depends on how hard and how long the brakes are used. Too much heat can make the brakes stop working. On school buses, the brake linings are not visible and the driver is not required to check them.

Low Air Pressure Warning

A low pressure warning signal is required on vehicles with air brakes. A warning signal that can be seen must come on before the air pressure in the tanks falls below 60 psi or one half the compressor governor cutout pressure on older vehicles. The warning is usually a red light. A buzzer should also come on.

Stop-Light Switch

Drivers behind the bus must be warned when you put your brakes on. The air brake system does this with an electric switch that works by air pressure. The switch turns on the brake lights when you put on the air brakes.

Spring Brakes

All air brake buses must be equipped with emergency brakes and parking brakes. They must be held on by mechanical force (because air pressure can eventually leak away). Spring brakes are usually used to meet these needs. When driving, powerful springs are held back by air pressure. If the air pressure is removed, the springs put on the brakes. A parking brake control in the bus allows the driver to let air out of the spring brakes. This lets the springs put the brakes on. A leak in the air brake system that causes all the air to be lost also will activate the spring brakes.

Spring brakes will come fully on when air pressure drops to a range of 20 to 45 psi (typically 20 to 30 psi). Do not wait for the brakes to come on automatically. When the low air pressure warning light and buzzer first come on, bring the vehicle to a safe stop right away, while you can still control the brakes.

The braking power of spring brakes depends on the brakes being in adjustment. If the brakes are not adjusted properly, neither the regular nor the emergency brakes will work right. Failure of the air brake system is most often caused by brakes that are out of adjustment.

Parking Brake Controls

In newer vehicles with air brakes, you put on the parking brake using a diamond-shaped, yellow, push-pull control knob. Pull the knob out to engage the parking (spring brakes), and push it in to release them. On older vehicles, the parking brake may be controlled by a lever. Use the parking brakes whenever you park the bus.

Whenever you suspect something is wrong with the braking system, it should be reported to the bus shop immediately.

Dual Air Brake Systems

Most newer, heavy duty vehicles use dual air brake systems for safety. A dual air brake system has two separate air brake systems that use a single set of brake controls. Each system has its own air tanks, hoses, lines, etc. One system typically operates the regular brakes on the rear axle. The other system operates the regular brakes on the front axle. The first system is called the “primary” system. The other is called the “secondary” system.

Before driving a vehicle with a dual air system, allow time for the air compressor to build up to a minimum of 100 psi pressure in both the primary and the secondary systems. Watch the primary and secondary air pressure gauge needles (some systems have one gauge with two needles). Pay attention to the low air pressure warning light and buzzer. The warning light and buzzer should shut off when the air pressure in both systems rises to a value set by the manufacturer. This value must be greater than 60 psi.
Whenever you suspect something is wrong with the braking system, it should be reported to the bus shop immediately.

Performing the Air Brake System Check: “L-A-B” (Leak, Air, Button)

You should use the following pre-trip inspection procedure to inspect your vehicle. There are more items to inspect on a vehicle with air brakes than one without them.

Inspecting Air Brake Systems

During the engine compartment check (Step 2)

Check the condition and tightness of the air compressor drive belt if the compressor is belt-driven. The belt should be in good condition and should have no more than 1/2 inch of slack.

During inside check (Step 9)

Leak

Start the engine and allow the air pressure to build to the cut-out pressure, in the range of 120 psi. Turn off the engine and then turn the ignition back on. Release the parking brake. Observe the air pressure gauge to see that it does not lose more than 2 psi in one minute. Fully apply the service brake (foot brake) for one full minute to see whether the air pressure falls more than 3 psi. If the loss of air pressure is greater than 3 psi after one minute, then there is a defect somewhere in the system. Report this to a mechanic immediately.

Air

Fan off (pump down) the air pressure by rapidly stepping on and off the foot brake. Some school systems prefer to use the parking brake control to bleed off the air pressure. This puts less wear and tear on the whole braking system and the brake light bulbs.

The low air pressure warning signal should come on before the pressure drops below 60 psi.

If the warning signal does not work, air pressure loss will be undetected. This could cause loss of control of the bus.

Button

Continue to fan off the air pressure. At some point before 20 psi, usually about 30 psi, the yellow spring brake (parking brake) valve button should pop out.

This means that the emergency brake system is activated and the bus is “locked down.” You cannot move the bus until the pressure rises above the lock-down level.

Check Air Compressor Cut-In and Cut-Out Pressures

Pumping by the air compressor should start at about 100 psi and stop about 120 psi. Run the engine at a fast idle, but do not exceed 1500 rpm.

The air compressor governor should cut-out the air compressor about 120 psi. The air pressure shown by the gauge(s) will stop rising. With the engine idling, step on and off the brake pedal to reduce the air tank pressure. The compressor should cut-in at about 100 psi. The air pressure should begin to rise.

If the air governor does not work as described above, it may need to be fixed. A governor that does not work right may not keep enough air pressure for safe driving.
Test Parking Brakes

Stop the vehicle, put the parking brake on, and gently pull against it in a low gear to test that the parking brake will hold.

Test Service Brakes

Wait for normal air pressure, release the parking brake, move the vehicle forward slowly (about 5 miles per hour) and apply the brakes firmly using the brake pedal. Note any “pulling” to one side, unusual feel, or delayed stopping action. Listen for any metal-on-metal “scrubbing” sound. This procedure should be done before each trip.

This test may indicate problems which you otherwise would not know about until you needed the brakes on the road.

Using Air Brakes

Normal Stops

Push the brake pedal down. Control the pressure so the vehicle comes to a smooth, safe stop. If the bus is equipped with a manual transmission, do not push the clutch pedal in until the engine RPM is down close to idle. When stopped, select a starting gear.

Emergency Stops

Braking should allow for steering the bus in a straight line. Use one of the following two methods:

Controlled Braking

This method is also called “squeeze” braking. Put on the brakes as hard as you can without locking the wheels. Do not turn the steering wheel while doing this. If you need to make large steering adjustments or if you feel the wheels beginning to slide, release the brakes. Brake again as soon as the tires regain traction.

Stab Braking

a. Press on the brake pedal as hard as you can.
b. Release the brakes when the wheels lock up.
c. As soon as the wheels start rolling, put on the brakes fully again.

It can take up to one second for the wheels to start rolling after you release the brakes. Make sure you stay off the brakes. Do not apply the brakes until the wheels start rolling again; otherwise the vehicle may not stay in a straight line. If the bus is equipped with ABS, DO NOT USE stab braking.

Braking on Downgrades

Use of the brakes causes friction and heat. Brakes can take a lot of heat; however, brakes will stop working if there is too much heat. Excessive heat is caused by trying to slow down from too high a speed too many times or too quickly. Brakes will fade when they get too hot causing you to push harder on the pedal to get the same stopping force. Brakes can fade so badly that they will not slow the vehicle down.

The right way to use the brakes for long downhill grades is to go slowly enough that a sparing use of the brakes will keep the speed from increasing. If the speed is appropriate, the brakes will be able to get rid of the heat and they will not get too hot.

Forceful, intermittent braking (snubbing) is safer than light, continued braking. Letting up on the brakes from time to time will allow them to cool enough so that they do not become overheated. Tests have proven this to be true. Light, continued pressure causes hot-spotting and in general makes the brakes run hotter, leading to increased probability of brake fade. Light, continued pressure also causes the brakes to wear faster, which is both a safety problem and a maintenance problem. Therefore, select the right gear, go slow enough, and use forceful, intermittent braking (snubbing).

It is always important for the brakes to be adjusted properly; however, it is especially important when going down steep grades. In addition to proper slack adjustment, the air brake system should be balanced, to give about the same braking at each of the wheels; otherwise, some brakes will do more work than others. They will heat up and lose some of their...
stopping power. Brake balance can be tested by properly trained air brake mechanics.

**Low Air Pressure Warning**

If the low air pressure warning signal comes on, stop and safely park the bus as soon as possible. There might be an air leak in the system. Controlled braking is possible only while enough air remains in the air tanks. The spring brakes will come on when the pressure drops into a range of 20 to 45 psi. A heavily loaded vehicle will take a long distance to stop, because the spring brakes do not work on all axles. Lightly loaded vehicles or vehicles on slippery roads may skid out of control when the spring brakes come on. It is much safer to stop while there is enough air in the tanks to use the foot brake.

**Parking Brakes**

Any time you park the bus for a short period of time, use the parking brake. Pull the parking brake control knob out to apply the parking brakes; push it in to release them. The control will be a yellow, diamond-shaped knob labeled “parking brake” on newer vehicles.

When parking the bus for a long period of time, decrease the air pressure to below 30 psi. This will activate the emergency system and will prevent the bus from being moved unless the engine is started, and the pressure is built back up. To decrease the air pressure, the parking brake knob should be pushed halfway in to bleed the air down until the parking brake knob will not stay in.

**PROCEDURE TO DO AN AIR BRAKE CHECK.**

1. Start the engine and build air pressure to 120 psi.
2. Turn the engine off, but leave the ignition on.
3. Release the parking brake. (Wheels should be chocked.)
4. Watch air pressure to see that it does not lose more than 2 psi in one minute.
5. Place foot on service brake. Watch air pressure gauge to see that it does not lose more than 3 psi in one minute.
6. Pump the brakes down (deplete air from system) until the low air warning light and buzzer come on at approximately 60 psi.
7. Continue pumping down until the parking brake knob pops out at approximately 20 to 45 psi. This will indicate that the spring brakes have been applied.
8. Start the engine and build air pressure to a minimum of 100 psi. Check the parking brake by placing the transmission in gear and slightly press the accelerator. If the bus moves, the brakes are out of adjustment or there is some other problem.

**Drive safely —
Your passengers are depending on you!!**
Test on Air Brakes

Short Answer —
1. Why is it important to “lock down” the bus after completion of a route or trip?

2. What happens at approximately 60 psi?

3. What must happen before the pressure in the air tank(s) reaches 20 psi?

Multiple Choice —
4. At what psi should the air compressor governor cut in and out?
   a. In at 100 and out at 120
   b. In at 60 and out at 90
   c. In at 20 and out at 60
   d. None of the above

5. On an emergency stop on a wet surface, which type braking would be best?
   a. Normal braking
   b. Controlled (squeeze) braking
   c. Stab braking
   d. None of the above

6. The type of braking used on a steep downhill incline should be:
   a. squeeze
   b. stab
   c. snubbing
   d. normal

7. How does a bus driver check the parking brake on a air brake system?
   a. Release parking brake and move bus forward.
   b. Apply parking brake and gently pull against it in a low gear.
   c. Apply the parking brake and accelerate hard.
   d. The parking brake can be checked only by a certified mechanic.

8. While driving the bus, the low air pressure warning is activated. What should a driver do?
   a. Drive to the nearest garage.
   b. Safely stop the bus as soon as possible.
   c. If only the light comes on, continue on the trip or route.
   d. Drive at a faster rate of speed to make the air compressor pump faster and build the air back up.

9. What is a supply pressure gauge used for?
   a. Lets you know how much pressure is applied to the service brake.
   b. Lets you know the amount of air available in the air tanks.
   c. Tells you how much brake fluid is present in the brake fluid reservoir.
   d. Keeps the air compressor from pumping too much air.

True or False —
10. All vehicles with air brakes must have a low air warning signal. True or False

11. What are spring brakes?

12. A safety relief valve releases air when something is wrong and the pressure in the air tank reaches 150 psi. True or False

13. An air brake system is composed of two braking systems combined. True or False

14. When emergency braking on a vehicle with anti-lock brakes is necessary, pump the brakes hard to stop faster. True or False
Driving Procedure

The purpose of this chapter is to teach you the basic skills you will need to operate a school bus safely and efficiently. In order for you to become a safe and efficient driver, you will need to practice good driving habits constantly. Time behind the wheel of a school bus is not enough to make you a safe driver. The time must be spent wisely in developing good driving habits and eliminating bad ones.

The driving skills that you use to operate an automobile are similar to the skills you need to operate a school bus. However, there are some very important differences. For example, a school bus is longer and heavier, higher, and wider (more clearance required), has slower acceleration and longer stopping distance, takes more room to turn, and the bus driver must rely more heavily on mirrors for adequate rear and side view.

The procedure used in starting a bus should be practiced until it becomes routine. The seatbelt should be adjusted so that you are able to operate the bus comfortably. Check the mirrors to see that they are adjusted properly for your height and position. The bus driver should be able to see where the rear wheels of the bus strike the ground as well as the ground in front of the bus. This will aid in turning, backing, lane position, lane change, and other maneuvers. More importantly, it will assist the driver during the loading/unloading process to see students and other persons or objects that may be along side or in front of the bus. The driver must fasten the seatbelt properly and ensure that passengers also buckle their seat belts where they are provided.

Before driving a different school bus the driver should understand the purpose and correct reading for each gauge and know the location of each switch. The position of various gauges and switches will vary depending on the type of bus.

Starting the Engine

There are many different kinds and models of engines in Alabama school buses. Exact procedures for starting each of them will be taught as needed in the practice phase of the training. However, several general procedures are used for all:

1. Check the parking brake and fasten the seat belt.
2. Make sure the bus is in neutral. (Automatic transmissions buses will not crank while in gear.)
3. Start the engine.
4. Allow the engine to warm up for a sufficient time to ensure smooth operation. Do not race the engine during the warm-up period, as this will cause severe damage to the engine.

Starting, Steering and Stopping

Smoothness in driving is one key to both safe driving and good relations with passengers. To keep from rolling backward on hills on a bus equipped with an automatic transmission, use the parking brake to hold the bus in position while depressing the accelerator with the right foot. When the bus begins to pull forward against the parking brake, release the parking brake and the bus will move forward without rolling back. This technique should be repeated several times during the practice phase of your training.

Steer smoothly, hand over hand, using two hands in steering at all times. Your hands should be at the ten and two or nine and three o’clock positions on the steering wheel. (One hand on the wheel is less than half as safe.) If the driver has to steer quickly or jerkily, he was going too fast for the maneuver.
Use the right foot for all normal braking. A school bus is much heavier than smaller vehicles and requires the driver to begin braking sooner in order to stop smoother. Feather the brake by slackening pressure on the brake pedal slightly just before the wheels stop rolling. This creates a smoother stop and happier passengers. A good driver anticipates stops as much as possible. This increases the margin of safety and helps save brake shoes. Avoid sudden stops.

**Following Distances for School Buses**

Safety demands that the driver maintain sufficient distance between the bus and the vehicle ahead under any conditions. It is important to estimate this following distance accurately. Constant practice in estimating distances will keep the driver prepared for any problem. On the open highway, the basic following distance rule, under good weather conditions, is to stay four seconds behind the vehicle ahead while traveling at forty miles per hour or less. If traveling over forty miles per hour, add an additional second for a total of five seconds. As the weather worsens, following distance should increase to allow more space to stop.

Following too closely is one of the most common causes of accidents, even among school bus drivers!

**Stopping Distance**

There are three things that add up to total stopping distance:

\[
\text{Perception Distance} + \text{Reaction Distance} + \text{Braking Distance} = \text{Total Stopping Distance}
\]

Add 3/4 second for lag time if the bus is equipped with air brakes.

**Perception Distance**

Perception distance is the distance your vehicle travels from the time your eyes see a hazard until your brain recognizes it. The perception time for an alert driver is about 3/4 of a second. At 55 mph, you travel about 60 feet in 3/4 of a second.

**Reaction Distance**

Reaction distance is the distance your vehicle travels from the time your brain tells your foot to move from the accelerator until your foot is actually pushing the brake pedal. The average driver has a reaction time of 3/4 second. This accounts for an additional 60 feet traveled at 55 mph.

**Lag Time**

On a bus equipped with air brakes, an additional 3/4 second brake lag occurs during which the bus is still moving.

**Braking Distance**

Braking distance is the distance it takes to stop once the brakes are applied. At 55 mph, it can take a heavy vehicle, like a school bus, about 275 feet to stop. It takes about 41/2 seconds.

**Total Stopping Distance**

At 55 mph, your vehicle will travel about the distance of a football field in coming to a smooth, safe stop. (60 + 60 + 275 = 395)

**The Effect of Speed on Stopping Distance**

Whenever you double your speed, it takes about four times the distance to stop, and the vehicle will have four times the destructive power if it crashes. High speeds increase stopping distance greatly. By slowing down a little, you can gain a lot in reduced braking distance. Additionally, tire traction decreases as speed increases.
The Effect of Vehicle Weight on Stopping Distance

The heavier the vehicle, the more work the brakes must do to stop it and the more heat they absorb. But the brakes, tires, springs, and shock absorbers on heavy vehicles are designed to work best when the vehicle is fully loaded. Empty trucks require greater stopping distances, because an empty vehicle has less traction. It can bounce and lock up its wheels, giving much poorer braking. This is usually not the case with buses.

Changing Lanes

Driving a school bus in urban areas means having to change lanes more frequently. In a school bus, this requires greater concentration and more careful use of mirrors than in a car. To change lanes, the bus driver should signal early, check mirrors and blind spots and move in to the proper lane gradually. Once positioned in the new lane, make sure the turn signal is canceled.

Right of Way

There are two kinds of intersections: regulated and unregulated. Unregulated intersections are those with no signal lights or signs. When approaching an unregulated intersection, reduce speed, check traffic to see that the intersection is clear, and only then proceed. If another vehicle is already in or very near the intersection, you should yield right of way to that other vehicle; if two vehicles arrive at the same time, the vehicle on the left yields to the vehicle on the right. The law always states that a certain vehicle shall yield; it never states that a vehicle has the right of way. The purpose of these right-of-way laws is to prevent accidents by prescribing who shall go last.

Curves

The proper procedure for rounding curve is to decelerate and look ahead for the sharpest point in the curve, then brake, if necessary, before entering the curve. At the midpoint of the curve, resume power and accelerate slightly through the remainder of the curve.

Intersections

More accidents occur at intersections than any other location on the road because they are the most confusing places on the highway. Other drivers do unexpected things at intersections, and it is important that you be alert to these drivers and prepare for any problem when approaching and entering every intersection.

EXPECT THE UNEXPECTED!!!

Many accidents occur as a result of making improper turns at intersections. Numerous errors, such as approaching too fast, turning too soon and hitting an object to the right or the left, turning into the wrong lane, failure to yield the right-of-way and many others, can be eliminated by executing each turn in a careful and deliberate manner with careful attention to well-adjusted mirrors.

Procedure for Making Turns

1. Get into the proper lane well in advance of the turn.
2. Check traffic conditions to the front, rear and sides.
3. Engage the turn signal at least 100 feet in advance of the turn.
4. Brake gradually to a safe speed, usually 10 miles per hour or less, at least 50 feet before the turn.
5. Check traffic again to the front, rear and sides.
6. Check clearance while turning into the correct lane. (Always turn in the lane closest to you.)
7. Complete the turn, using both hands on the wheel (hand-over-hand steering).
8. Straighten the bus; cancel the turn signal.
Lane selection for turning is as follows:

Left from a two-way roadway onto a two-way roadway having either two, four, or six lanes.

Right turn from any type roadway onto any type roadway (one way).

Left turn from a two-way onto a one way roadway.

Left from one-way roadway onto a one-way roadway. Vehicle must approach for the turn and make the turn, as close as practicable, to the left-hand curb or edge of the roadway.

Left from a one way roadway onto a two-way roadway.

Left from a three-lane, two-way roadway onto a two-lane, two-way roadway.

When turning right, a school bus may have trouble clearing the curb. The driver should remember that responsibility for making a safe turn rests with the bus driver. He should approach the corner in the right-hand lane about four feet from the curb. The bus should not be far enough away from the curb to allow a vehicle between the bus and the curb. As soon as the front wheels pass the corner, turn wide to the right, swinging over the center of the side street, if necessary, in order for the right rear wheels to clear the curb. Check the side mirrors while executing the turn.

Good Rule: Never make a lane change when turning.
**Railroad Crossings**

The most tragic school bus accidents that have ever happened have taken place at railroad crossings. The results are usually multiple fatalities. School bus regulations require that buses stop at all railroad crossings. The front bumper should be no closer that fifteen (15) feet from the nearest track and no further away than fifty (50) feet. Visibility is the determining factor. Fifteen (15) feet can be estimated by being able to see the nearest rail over the hood of the bus.

**Safety Procedures at Railroad Crossings**

1. Check traffic and activate hazard lights approximately 500 feet from the crossing.
2. Open the window.
3. Shut down all noise heater/defroster, radios, students, etc. (not the engine).
4. Stop no closer than 15 feet nor farther away than 50 feet from the nearest rail.
5. Open the door.
6. Engage the parking brake.
7. Look and listen for the train.
8. If a train is seen or heard approaching, shift the transmission to neutral, close the door and wait for the train to pass. After the train passes, check for other trains approaching from either direction, then proceed with caution when clear.
9. If no train is present, release the parking brake, close the door, and proceed with caution only after you have determined that no train is approaching. Continue to check both directions while crossing the tracks.
10. Deactivate the hazard lights and resume normal operations after crossing the tracks.

If there is more than one set of tracks, be certain that all tracks are clear before proceeding. Do not assume that just because one train has passed another is not approaching from the same or a different direction.

If the lights are activated and/or the crossing gate is down, DO NOT CROSS the tracks even if you think they are malfunctioning. Cross only if a railroad flagman or police officer gives you permission.

**If the bus stalls on a railroad crossing, evacuate the bus immediately!!** If a train is approaching, the passengers should move away from the bus in the direction of the train’s travel but away from the tracks. If the train hits the bus, pieces of the bus will be less likely to hit any of the students. After the students are safely evacuated, the driver may return to the bus and try to start the engine while monitors watch and listen for an approaching train.

Always be certain that the bus can safely clear all tracks and any area beyond the tracks in which the bus will not fit. Examples of this could include:

- Tracks close to intersections;
- Multiple tracks;
- Tracks around warehouses or storage areas;
- Railroad car switching areas.

**Loading and Unloading**

The most dangerous part of the bus trip for students is when they are loading or unloading the bus. When students are outside the bus, the chances of them being injured or killed is much greater than when they are on the bus. The route that your school bus travels and the exact location of each stop are the responsibility of the local board of education and the transportation supervisor. They rely on you, the bus...
driver, to inform them of any dangerous situations encountered on the route, especially in regard to passenger stops.

There are several things you should keep in mind in making stops:

Make sure that all your stops are made in a safe place. Ideally, visibility should be at least 500 feet in both directions.

If a stop must be made in a curve or on a hill, it should be made in the middle of the curve or on top of the hill.

The bus should be positioned on the right lane portion of the highway.

Students who must cross the road should do so under the watchful eye of the school bus driver and the protection of the school bus warning system.

The driver is the most important safety component in the loading/unloading process.

The yellow warning lights should be activated approximately 300 feet before reaching the designated stop.

In the morning, students should wait safely off the roadway until the bus has stopped, traffic has stopped, the door is open, and the driver signals them to load.

If it is necessary for students to cross the road to load or unload, they should cross at a point 12 feet in front of the bus. NEVER BEHIND THE BUS!

Stops should be made no less than 10 feet from the nearest passengers. Do not position the door even with the passengers; one of them might fall or be pushed in front of the bus.

The bus should not be moved or traffic released until all students have reached a point of safety on the side of the road on which they live or have boarded the school bus.

On a bus with a manual transmission, before allowing a student to leave or enter the bus, you should disengage the clutch with the transmission in neutral.

After the bus has stopped to load or unload passengers, you should immediately crack the door to activate the red flashing lights and the stop sign, but you should not open it completely until it is safe to do so. Immediately after cracking the door, engage the parking brake and check traffic to determine when it is safe for students to be loaded or unloaded.

DANGER FROM PASSING CARS

DANGER ZONES

MOST DANGEROUS

WALKING AREA

MOST DANGEROUS

12 FT.

10 FT.

12 FT.

10 FT.
A safe loading or unloading requires several checks of the mirrors before releasing traffic or moving the bus. This will ensure that all traffic has stopped and that no students or anything else remains in the danger zones around the bus.

Drivers should watch students unloading to ensure that no articles of clothing, equipment, or other items become caught on the handrail, door handle, or other parts of the bus.

School bus stops should not be located at street intersections, near railroad tracks, or too close together. It is recommended that school bus stops be at least 1/4 of mile apart.

There are many dangerous situations that can develop on the school campus. **No bus should ever break the loading or unloading “line-up” by pulling around another bus or buses ahead.** No bus should ever be driven backwards on the school grounds where children are being loaded or unloaded or where there is any possibility of students being in the vicinity of the bus.

**It is recommended that the warning system always be used when loading or unloading students.** Under certain restricted situations, school bus drivers may be asked not to use this system. All such situations should be approved by the transportation supervisor and the principal of the school or other authorized person.

Drivers and anyone else involved in the loading or unloading of students must understand that students feel safe around the school bus whether on campus or on the highways. They often do not pay as much attention to traffic and other dangers as they should. This increases the responsibility of the driver and others in ensuring the safety of the students.

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**Don’t take chances!!**

**Follow proper safety procedures!!**

**Student Loading/Unloading Procedures**

(Automatic Transmission*)

1. Check traffic.
2. Activate yellow warning lights 300 feet in advance of the stop.
3. Make a smooth stop 10 feet short of the stop.
4. Crack the door to activate the red flashing lights and stop sign.
5. Activate the parking brake (cover foot brake).
6. Open the door when safe to load/unload students. (Count students when loading/unloading.)
7. Communicate with students (verbally and/or hand signal).
8. Release parking brake.
9. Check mirrors, especially crossover and side mirrors.
10. Close door and proceed when safe and all students are seated or safely on the side of the road on which they live.

* When driving a bus with a manual transmission, the gearshift should be placed in the neutral position when loading/unloading students.

* Be alert for student apparel and book bags being caught on the bus handrail, door, door handle, etc.

* Never move the bus with the door open or cracked.

**Backing the Bus**

Even under the most favorable conditions, backing the school bus is an extremely dangerous maneuver. The bus can be difficult to control and the driver’s vision to the rear is seriously limited. When a driver thinks of backing, he should automatically think of danger. School bus drivers should never back a bus unless absolutely necessary.

Accident reports show that backing is one of the most dangerous maneuvers a driver can perform. You should never back a bus from a side road into a main road. This is against the law. If a turn-around is required on the route, students should be loaded before the backing is done or unloaded afterwards.
generally safer on the bus during the backing maneuver.  
Any time backing is absolutely necessary:
1. Get a helper when you can.
2. Activate the hazard lights.
3. Blow the horn several times.
5. Use your mirrors.

Always check the area into which you are backing with your naked eye before starting to back.

Take pull-ups to help improve the view of this area. It is always better to take a pull-up than to hit anything. Do not continue to back when you cannot see what you think you should.

**Remember: Mirrored vision is reduced vision.**

**Pavement Markings**

Generally, there are four types of pavement markings: centerline striping, edge striping, crosswalks and stop lines, and pavement messages.

**Centerline Striping**
The centerline is the painted stripe in the center of a road which separates the traffic proceeding in opposite directions. Under the Uniform Code, centerlines are to be painted yellow on two lane highways and white on multi-lane highways and one-way streets. Dashed lines are used in areas where there are no restrictions on passing when it is safe to do so. In those areas where passing is not allowed, a solid yellow line is found on your side of the centerline; you may not pass. If passing is not allowed for traffic in both directions, the dashed yellow line will be replaced by two solid yellow lines.

**Do not pass unless absolutely necessary!**

**Lane dividers**
When a roadway consists of two or more traffic lanes for vehicles moving in one direction, the lanes are divided by dashed white lines. These dashed lines may be crossed when passing.

**Edge Striping**
In many areas, the right and/or left edges of the highway are marked with a solid white line. This line indicates the outside edge of the traffic lane, and may be crossed only by traffic moving to or from the shoulder. Occasionally, yellow lines are used for left edge lines on divided roadway where traffic cannot pull entirely off the roadway, for marking of obstructions, and islands which must be passed on the right.

**White solid line**
A normal solid white line is used to delineate the edge of a travel lane where travel in the same direction is permitted on both sides of the line but crossing the line is discouraged. A white solid line is used for emphasis where crossing requires unusual care.

**Double solid white line**
A double solid white line is used to delineate a travel lane where travel in the same direction is permitted on both sides of the line, but crossing the double line is prohibited.

**Crosswalks**
White solid lines are used to denote school and pedestrian crosswalks at intersections and, in some cases, between intersections. A driver must stop at all crosswalks occupied by pedestrians if there are no controlling signals.

**Pavement Messages**
In some areas, pavement messages are used to warn of conditions ahead, such as SCHOOL ZONE, R/R CROSSING, etc. Such messages are lettered on the road surface in white paint.

**Traffic Signs**
A thorough knowledge of traffic signs, signals, and road markings is a must for all drivers. You must know them well enough to recognize them immediately and, in the case of regulatory signs, obey them immediately.
Road signs have taken on a new look with greater use of symbols and pictures. These have the advantage of quicker recognition at high speeds and at greater distance.

In addition to becoming familiar with the individual signs, it is important for you to recognize the shapes and colors of signs because both are coded to the signs type of message.

The three types of traffic signs are classified according to function. They are regulatory, warning, and information or guidance or services.

Other signs can be found on page 52 of this handbook.

School bus safety regulations will be of little avail if drivers fail to observe safe operating practices. If tragedy is to be averted, skill, care, and adherence to the laws must be exercised consistently. In addition, to the safe operation of the school bus, it is the responsibility of the driver to see that the bus and all equipment is in proper working order and maintained at peak efficiency. Cooperation between school bus drivers, school officials, owners, parents, and students is essential in order to assure safe and comfortable transportation.

Remember:

Do not fuel the bus with occupants aboard.

No students should be allowed to occupy any position that would interfere with the vision of the driver.

The school bus driver should not leave the vicinity of the bus when it is occupied by students.

All doors should be tightly closed at all times when the bus is in motion.

No bundles, parcels, books, lunch boxes, band or athletic equipment, student projects or the like are allowed in the aisles, blocking the doors, or restricting the driver’s vision through the windows.

Keep the bus comfortable and well ventilated at all times.

Students should be seated any time the bus is in motion.

The school bus driver should not transport any animals, firearms, explosives, or anything of a dangerous nature.

The school bus driver should transport only passengers and approved school supplies and materials designated by the school administration or transportation supervisor. Never transport anything of a dangerous nature.
Test on Bus Operation

True or False

_____  1. You must know the approximate size of your bus so you can estimate whether your bus can safely clear structures with restricted width or overhead clearance.

_____  2. Drivers tend to underestimate bus length and distance measured in feet.

_____  3. Distance and speed estimation for oncoming vehicles at night is almost equal to that of daytime driving.

_____  4. You have more help controlling the position of your bus at an intersection in the city than you do in a rural area.

_____  5. One of the most common faults of school bus drivers in urban areas is that they do not stay in the proper lane of traffic.

_____  6. Blind and uncontrolled intersections are often found on rural roads.

_____  7. A basic rule for driving in adverse weather is to decrease your speed.

_____  8. In general, you should drive in the right lane except when you need to make a left turn.

_____  9. Driving within the posted speed limit is your only concern in adjusting the speed of the bus for urban, rural, residential, or highway driving.

_____10. You may cross a railroad track with the door open to get better visibility.

_____11. Backing should never be done unless it is absolutely necessary and should be done with extreme caution and following proper procedure.

_____12. You should always unload your students before backing your bus to turn around.

Circle the correct answer

13. A safe procedure to follow when rounding a curve is to:
   a. apply brakes prior to entering the curve.
   b. coast through the curve.
   c. stop before the curve and then proceed around the curve cautiously.
   d. gradually increase speed prior to entering the curve.

14. It is illegal to stop a school bus any closer than _____ feet from a railroad crossing:
   a. 15 feet   c. 300 feet
   b. 500 feet   d. 20 feet

15. In Alabama, it is illegal to shift gears manually in a school bus while driving:
   a. in heavy traffic.   c. on an expressway.
   b. across railroad tracks.   d. on loose gravel.

16. When turning at crowded intersections, you should:
   a. try to move very carefully through the flow of pedestrians.
   b. try to move through wherever there is a gap in the flow of pedestrians.
   c. wait until there are no pedestrians actually in the intersection.
   d. wait until there are no pedestrians waiting to cross.

17. What must a driver do before entering a street from an alley, private road, or driveway?
   a. Slow down and proceed with caution into the flow or traffic.
   b. You do not have to stop.
   c. Stop, yield right of way whether or not there is a stop sign.
   d. Wait until directed to proceed.

18. A school bus driver who cut the corner too closely when making a right turn, causing the wheels of the bus to go over the curb, probably is:
   a. unaware that it is happening.
   b. a poor judge of distance in other situations, too.
   c. trying to save time.
   d. none of the above.
19. You are stopped in a line of traffic headed uphill waiting for the light to change. The best way to ensure that the bus does not roll backwards is to:
   a. keep your foot on the foot brake.
   b. accelerate slightly.
   c. put the bus in low gear.
   d. set the parking brake.

20. Turn signals shall be given continually for at least how many feet before turning.
   a. 50 feet
   b. 100 feet
   c. 150 feet
   d. 200 feet

21. If at a railroad track you have to wait for a train to pass, when the train passes, what should you do:
   a. release the parking brake, close the door and proceed?
   b. proceed across the tracks with the door open to make sure another train is not approaching?
   c. reopen the door, check all tracks again for other trains, when clear, release the parking brake, close door, and proceed with caution?
   d. proceed as soon as the warning lights and/or gates are no longer working?

22. In accidents involving fatalities in the loading/unloading zones. Most students killed are killed by:
   a. traffic not stopping for the red flashing lights and stop arm of the school bus.
   b. traffic trying to pass the school bus just before it stops.
   c. the school bus.
   d. traffic entering from a side road.

23. Match the traffic signs below with the correct description.
   ____1. Warning
   ____2. Stop
   ____3. Railroad warning
   ____4. Information/location direction
   ____5. Yield right of way
   ____6. Regulatory
   ____7. Railroad crossing
   ____8. School zone or school crossing
   a.  e.
   b.  f.
   c.  g.
   d.  h.

24. Number the loading events in the correct order with 1 being the first thing to do, then 2 and so on.
   Number 1 is done for you.
   _____ a. Check traffic and turn on yellow warning lights.
   _____ b. Check the mirrors, close the door, and go.
   _____ c. Come to a complete stop and crack the door to activate the red flashing lights and stop sign.
   _____ d. Check traffic, open door completely, and allow students to board the bus.
   _____ e. Engage the parking brake.
   _____ f. Release the parking brake.
Chapter 5
Defensive Driving

The term “defensive driving” is defined as: “Driving to prevent accidents in spite of the incorrect actions of others and adverse weather conditions.” It can also be stated in a formula.

Defensive driving simply means:

\[
\text{Recognize} + \text{Decide} + \text{Act} = \text{SAFETY}
\]

Defensive driving simply means:

Recognize Decide Act
Potential on the in = SAFETY
Hazards Defense Time

It means that a driver should be aware of the actions of other drivers and be prepared to compensate for their mistakes to avoid an accident. Other drivers often take chances in order to avoid being behind a slow-moving, frequently-stopping school bus. School bus drivers must be aware of this and be prepared to compensate for their carelessness. Additionally, statistics indicate that the average driver makes one mistake every quarter mile. Know this and be ready to deal with these mistakes.

One of the most important principles of defensive driving is to always look ahead and try to avoid dangerous situations. You can do this if you will practice the defensive driving techniques below.

1. Aim high in steering. Aim your eyesight down the road for an imaginary target in the center of your lane. This is also called “driving ahead of the vehicle.”

2. Get the “big picture.” Get the overall picture of what is going on around you. This includes in front of the bus, on both sides of the bus, and behind the bus.

3. Keep your eyes moving. Don’t fix your eyes on any one object. Looking at one thing tires your eyes and you get to the point where you really don’t see what they are supposed to be “focusing” on. This is a form of “highway hypnosis.” If you form the habit of looking around, it rests your eyes and allows you to see things before you get right up to them. You are better able to “size up” the changing traffic picture and road conditions. “Getting the big picture” includes regular checks of mirrors. Mirrors are likely the most important piece of safety equipment of a school bus. USE THEM!

4. Leave yourself an “out.” This is the reason for giving other drivers plenty of warning as to what you are going to do and for not following vehicles too closely.

5. Make sure other traffic sees you. Tap your brakes or flick your headlights. Properly using the signal lights on your bus (eight-ways, turn signals, hazards, etc.) is another way to “make sure other traffic knows what you are going to do.” Hazard lights are another good way to communicate with other drivers. The task of defensive driving is complex. It calls for concentration, reasoning, making decisions, selecting, evaluating, planning, thinking, and many other factors.

Knowledge

Knowledge is a driving quality that is essential if a school bus is going to avoid accidents. When a person lacks a thorough knowledge of the hazards involved in driving a school bus or when he lacks sufficient knowledge of the most desirable ways of performing certain skills, his conscious thought is not always a effective deterrent to accidents. In fact, when a driver possesses only partial knowledge of an activity, he is often filled with a false sense of security and can be even more dangerous.

As a school bus driver, your knowledge and application of sound driving practices and skills will determine your driving record. A driver who does not possess knowledge in the following areas must be considered a hazard. Ignorance is a potential hazard and recognition is simple.

Are you knowledgeable in each of these areas?

- State highway laws?
- Local rules and regulations?
- Maintenance procedures?
- Accident and emergency procedures?
- Defensive driving skills?
- First aid?

If not, the time to become knowledgeable in each area is before you drive.
Vehicle Control

You may have to deal with emergencies which, if not handled properly and promptly, could result in an accident. You must know what to do before the situation arises. You must know how to handle your bus so well that, when faced with an emergency situation, you will react almost automatically. Some of these situations include:

Running off the Road
This is not a serious emergency unless you overreact and jerk the steering wheel to get the bus back on the pavement. If you run off the pavement:

- Release the accelerator and allow the bus to slow down gradually.
- Steer straight so that your tires are not rubbing and bumping the edge of the pavement.
- Do not apply the brakes unless there is an object on the roadside you may hit.
- When your speed has been reduced sufficiently to ensure safety, check traffic in both directions and pick an interval in the traffic to return to the pavement.
- Ease the bus onto the pavement without jerking the steering wheel.

Skids
A rear-wheel skid usually occurs when a curve and/or wet section of pavement is encountered at too high a speed. If a rear-wheel skid (or side skid) should occur, simply:

- Do not apply the brakes.
- Deaccelerate and turn the steering wheel in the direction the rear of the bus is skidding (the direction in which you want to go).

A front-wheel skid can occur when you apply the brakes too heavily, locking them. If a front-wheel skid should occur:

- Release the brakes to allow the vehicle to decelerate.
- Reapply the brakes more carefully after the front wheels begin rolling again.

See page 21 for emergency braking on vehicles with anti-lock brakes.

Vehicle Handling
Vehicle conditions must be considered. Even though buses are basically alike, all of them have peculiarities: they “drive” differently. When a driver is first assigned to drive a bus, the driver should completely familiarize himself with it before he moves it. He should have no questions about how to operate the bus before pulling out. Feel out the brakes, check what kind of mirrors it has and how they are arranged, what kind of braking system (air, hydraulic, ABS).

No matter how carefully you drive, you must realize that all vehicles, including school buses, are subject to mechanical failures.

Tire Blowout
Consider the possibility of a tire blowout. If a front tire blows out, the bus will pull toward the side of the flat tire. For this reason you should:

- Hold the steering wheel firmly and steer straight.
- Do not apply the brakes.
- Ease off the accelerator to reduce speed.
- Move off the road onto the shoulder, stop, and park.

A rear tire blowout is not as dangerous because buses have dual rear tires. If one does go flat, the other will usually hold the bus upright, allowing the driver to stop safely.

Brake Failure
Another mechanical failure which could cause an accident is brake failure. Most school buses are equipped with dual brake systems, and if one system fails, the other will allow the driver to stop the bus without danger. If the red warning light or buzzer that indicates brake failure comes on, the driver must pull off the road and stop.

If you experience complete brake failure on a non-air brake bus:

- Pump your brake pedal rapidly to build up pressure.
- If pumping does not enable you to stop the bus, downshift to the next lowest gear and set the parking brake.

On a bus with air brakes, simply apply the parking brake.

Sudden Loss of Visibility
Another example where vehicle control is important is where there is a sudden loss of visibility. There are several conditions which can cause such a loss. To control the bus until normal visibility can be restored, you will have to use clues other than the usual visual ones.

If the headlights fail, instantly hit the dimmer switch and activate the four-way hazard lights.

- The amber lights of the eight-light warning system may be a source of light.
Try to keep sight of the road.
Pull off the roadway.
Brake slowly.
Stop.

If a large amount of water is splashed on the windshield,
• Remove your foot from the accelerator.
• Turn on the wipers.
• At the same time, cautiously apply the brakes and look out the side windows.

If a patch of thick fog is encountered,
• Put your lights on low beam.
• Activate four-way flashers (hazard lights).
• Slow down, using the edge lines as guides.
• If the fog is too thick, pull off and park as far away from the pavement as possible. Never stop the school bus on the highway.
• Activate strobe light, if equipped.

Object in Path of Bus
Sometimes something may suddenly appear in the path of your bus, such as another vehicle, pedestrian, bicyclist, etc. The thing to remember is that evasive action must be taken to avoid hitting any kind of obstruction. Always remember that you are more likely to avoid hitting anything if the unusual is always anticipated and if effective evasive action is mentally practiced over and over again until it becomes completely automatic. The driver must instantly choose between trying to stop in time or selecting an alternate “escape route” which is free from other, more hazardous obstacles.

If a collision is absolutely unavoidable, you should try to reduce speed as much as possible, and above everything else, avoid a head-on collision, thereby reducing the force of impact.

Stopping and Following Distance
Stopping a school bus smoothly and within the limits of safety is another sign of a defensive driver. As a defensive driver, you have your vehicle under control at all times and know that braking distances increase greatly as the speed and weight of the bus increases.

Use the Four-Second Interval to gauge following distance. This will help ensure an adequate stopping distance by keeping you from following too closely.

Collisions at Intersections. The intersection collision is normally caused by the careless or inattentive driver. One third of all accidents take place at intersections making this type of accident more frequent than any other type of accident.

Hitting Vehicles Ahead. As a rule, you have much more control over this type of collision that the head-on or rear end collision. Your judgment and driving awareness are much more of a factor because of your road position. As a result, when there is a collision with a vehicle ahead, serious questions concerning your driving must be asked.

Collisions with Vehicles from Behind. Having a collision with a vehicle behind you is no doubt a reflection on your driving habits. Your success at avoiding this kind of accident depends upon driving practices. If you avoid tailgaters and braking violently and use your signals appropriately, you should not be involved with a collision with vehicles behind you.
Test on Defensive Driving

True or False

_____ 1. You can use usual and unusual clues to assess how bad a hazard is before you take action.

_____ 2. You should depend on other drivers to signal their intentions just as you signal.

_____ 3. The condition of the shoulder of the road should not concern you if you do not intend to pull off the roadway.

_____ 4. Drivers who do not signal prior to a maneuver are potentially hazardous.

_____ 5. Lack of communication by other drivers on the road is not a hazard to your safe driving.

_____ 6. Any point at which the roadway is compressed (for example, a four-lane road narrows into two lanes) represents a conflict point.

_____ 7. You should always swerve to avoid an animal or pedestrian in the roadway.

_____ 8. A “panic stop” is always better than no stop at all.

_____ 9. Two seconds is the minimum time interval to maintain behind a vehicle you are following.

_____ 10. If your wheels run off the paved surface on a narrow road, you should slow down and turn your wheels gradually to cut back onto the pavement.

_____ 11. Accidents blamed on skidding or bad weather conditions are classed as “preventable.”

_____ 12. When driving in snow or ice, you brake while negotiating turns.

Multiple Choice

_____ 13. To detect hazards, you must be able to distinguish ______ within a complex, changing traffic situation.
   a. clues c. accidents
   b. taillights d. rules

_____ 14. Your eyes should scan farther down the roadway as your speed ____________.
   a. decreases. c. increases.
   b. stabilizes. d. none of the above.

_____ 15. Many collisions occur at intersections where ________ is obstructed or limited by buildings, vegetation, or parked cars.
   a. hearing c. path
   b. stopping d. vision

_____ 16. The more intently you fix your central vision on a particular object, the ________ aware you will be of clues from your larger field of indirect vision.

_____ 17. Which of these statements is not a good seeing habit when driving a school bus:
   a. aim high in steering?
   b. get the big picture?
   c. frequently turn around to check on students?
   d. keep your eyes moving?

_____ 18. The purpose of defensive driving is to:
   a. prevent bodily injury.
   b. prevent property damage.
   c. avoid collisions.
   d. reduce traffic violations.

_____ 19. When another vehicle is following a school bus too closely, a good defensive driver will avoid:
   a. sudden stops.
   b. changing lanes.
   c. flashing brakelights.
   d. checking mirrors frequently.
The first objective of first aid is to save life. The immediate and temporary care given to the victim of an accident until professional medical assistance is available is called first aid.

You are not expected to be a paramedic; however, you should avail yourself of a first aid course if available. Four procedures should be followed:
2. Maintenance of airway and respiration.

It is your responsibility to check the first aid kit on a regular basis to ensure it is properly equipped.

If fire or other immediate danger is present, then all students will be removed from your bus first. Then treat the following injuries at once.
1. **Blocked airway.** The longer you wait, the less chance a person has for survival. Ideally, breathing must be started either on their own or artificially within two minutes.
2. **Bleeding.** If a person is bleeding profusely, you have about two minutes to get the bleeding stopped.
3. **Shock.** Must be treated immediately.
4. **Broken bones.**

Now look at each of the above in more detail.

**Artificial Respiration**
Most people can live about six minutes after breathing stops. Artificial respiration is a method of getting air into and out of a person’s lungs until he can breathe for himself. The simplest and most effective way is by the mouth-to-mouth method (“rescue breathing”). Follow these steps:
1. Place person on back.
2. Open mouth and remove any foreign objects.
3. Tilt head back so chin points upward. This clears the air passage.
4. Blow into a person’s lungs through either his mouth or nose. Open your mouth wide and place it tightly over the person’s mouth. Pinch his nostrils (or mouth) shut.
5. Blow into his mouth (or nostrils).
6. Remove your mouth and watch and listen for any sign of breathing from the person’s lungs. Check for pulse.
7. Continue, repeating about every 5 seconds (12 per minute). Continue to check for pulse.
8. Normal breathing may begin after 15 minutes of artificial respiration, but if it does not, continue the process until professional assistance arrives.

**Heimlich Maneuver**
When an object, usually a piece of food, lodges in the throat so that it prevents breathing, the victim has just four minutes before he will suffer permanent brain damage from lack of oxygen. A choking victim is unable to breath or make a sound.

If the victim is conscious, ask him if he can talk. If he can talk and cough effectively, do not interfere with his attempts to clear his throat. Encourage coughing.

**If he is unable to make a sound, he is probably choking.**
1. Strike the victim sharply, several times in rapid succession, between the shoulder blades with the heel of your hand.
2. If the throat remains blocked, use the Heimlich Maneuver. With the victim standing or sitting, wrap your arms around his waist from behind. Make a fist with one hand and place it, thumb side down against the abdomen, between the navel and rib cage.

3. Clasp the fist with your free hand and press in with a quick upward thrust. Repeat several times, if necessary.

4. If unsuccessful, repeat blows to the back and the Heimlich Maneuver.

**If the victim loses consciousness, continue with treatment for an unconscious victim as follows:**

These measures may be used on children and adults. Infants and small children should be held upside down, over the arm of the rescuer, and then struck between the shoulder blades.

If the victim is unconscious and if the cause is unknown, try first to restore breathing using the mouth-to-mouth technique.

**If the chest does not rise, treat for choking as follows:**

1. Roll the victim on his side, bracing his chest against your knee. Strike him sharply, several times in rapid succession, between the shoulder blades with the heel of your hand.
2. Remove any foreign matter from the mouth and begin mouth-to-mouth breathing.
3. If unsuccessful, kneel close beside the victim’s hips and place the heel of one hand on the center of the abdomen, slightly above the navel and below the rib cage. Place your free hand on top of the other.
4. Press in toward the center with a quick upward thrust. Do not press to either side. Repeat several times if necessary.

5. If vomiting occurs, quickly turn the victim’s head to one side. Clear the mouth and begin mouth-to-mouth breathing.

**Bleeding**

**Arterial bleeding** — Bright red blood flowing swiftly in spurts or jets.

**Venous bleeding** — Dark colored blood at a steady flow.

**Remember:**
- Blood dripping slowly from a wound is generally not serious and can be controlled.
- Blood flowing in a small steady stream may be serious but can be controlled.
- Blood flowing in a heavy stream or in large spurts indicates a serious condition, and you must attempt to bring it under control.

If severe bleeding does not stop after application of direct pressure, the pressure point technique may be required. This technique temporarily compresses the main artery against the underlying bone and nearby tissues and stops circulation to that limb. If the use of a pressure point is necessary, also continue direct pressure of the wound.

**Treatment for Shock**

Keep victim lying down.
Maintain body temperature.
Give fluids only if help is delayed.

**Broken Bones**

Do not allow victim to be moved until medical help arrives.
Keep victim warm and quiet.

**Bites and Stings**

**Types:** Animal, human and insect.

**Symptoms:** Generally a mark where bitten or stung, swelling, pain, itching and nausea.

**Care:** Wash with soap and water.
Bee stings — Check with student to see if he is allergic and if he has medicine for it.
Dog bites — Obtain name of owner of dog and report to authorities.
Human bites — Likely source of infection. Report to proper authority.
**Diabetic**

*Insulin Shock* — too much insulin, not enough sugar.
- b. Life threatening.
- c. Confused, shaky, dizzy.
- d. Unconscious.

**Care:**
- a. Place sugar, jelly from packets or something with sugar under the child’s tongue.
- b. Check for medical alert tags.

*Coma* — too much sugar, not enough insulin; not as dangerous as insulin shock.
- a. Semi-conscious or sleepy.
- b. Air hunger.
- c. Fruity smelling breath.
- d. Flushed face.

**Care:**
If in doubt, treat for insulin shock. Get medical attention.

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**First Aid for Epilepsy**

1. Keep calm when a major seizure occurs. You cannot stop a seizure once it has started. Do not restrain the patient or try to revive him.
2. Clear the area around him of hard, sharp, hot objects which could injure him. Place a pillow or rolled-up coat under his head.
3. Do not force anything between his teeth.
4. Turn his head to one side, and make sure his breathing is not obstructed. Loosen tight clothing but do not interfere with his movements.
5. Carefully observe his actions during the seizure for a full medical report later. When the seizure is over, let him rest if he wishes. The proper authorities should be notified of any medical problems.

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**Test on First Aid**

**Multiple Choice**

_____ 1. Who is expected to check the first aid kit?
   a. Supervisor  
   b. State Department of Education  
   c. Bus driver  
   d. Paramedic

_____ 2. Most people can live how long after breathing stops?
   a. 4 minutes  
   b. 6 minutes  
   c. 20 minutes  
   d. 9 minutes

_____ 3. When a child is choking, but able to produce a strong cough,
   a. lay him flat on floor.  
   b. encourage coughing.  
   c. clasp your arms around his waist and pull sharply.

_____ 4. Blood flowing in large spurts:
   a. indicates arterial bleeding.  
   b. indicates venous bleeding and is easily controlled.  
   c. demands a tourniquet be applied.

_____ 5. Swelling, itching and nausea is usually a sign of:
   a. diabetic shock.  
   b. an epilepsy seizure.  
   c. an insect bite.  
   d. shock.

**True or False**

_____ 6. A choking victim is unable to breathe or make a sound.
_____ 7. Blood dripping slowly from a wound is generally easily controlled.
_____ 8. Direct pressure applied to the wound will usually stop bleeding.
_____ 9. A student experiencing an epileptic seizure should not have his movements restrained.
_____ 10. Body temperature should remain constant for a person in shock.
Student Conduct

It is a fact that children are affected by specific experiences arising from riding your school bus. These experiences, good and bad, become an important part of the total educational experience.

The school day starts when a student enters your bus and extends until that student is safely off your bus in the afternoon. Undesirable conduct not only makes all passengers uncomfortable, but it jeopardizes their safety. Rules of conduct should be reasonable and infractions dealt with promptly, firmly, and fairly.

While the use of negative terms when dealing with bad behavior may be common place, it makes a lot more sense to reinforce good behavior with positive terms. Learn to recognize behaviors that are desirable and “reward” them with positive responses. For example, “Thank you, Ken, for picking up that piece of paper.” “Good for you, Brecca, you had everyone lined up in the right place this morning. I appreciate that.” Any of us who will learn to accentuate the positive will eliminate the negative.

Most school systems will have rules and policies set by the local board. Study them, follow them and make your students aware of the rules. Some general rules that are standard across the state are:

1. Students must get on and off the school bus at scheduled stops and in an orderly manner. No pushing, shoving, or letting a student off at a store on the way home.

2. Students should be allowed to talk but not loud enough to distract the driver. If you have to worry about the activity on the bus, you cannot be a safe driver.

3. Students will remain seated until the bus is stopped.

4. Students will load and unload in accordance with policies. School buses cost a lot of money, and students are expected to assist in taking care of them.

5. Students will keep their arms or any part of their body inside the bus.

6. Nothing will be thrown from the school bus.

7. Students will be on time at bus stops.

Your main function is to take a student from point A to point B without conflict. Never threaten an action you cannot enforce; rather, win your way by friendly persuasion. If you overlook violence by one child, you lose the respect of others. Try to hit a happy medium, having a friendly, cheerful, and business-like attitude. The students will reflect the attitude of the driver.

Remember:

- Do be firm, fair, impartial, and consistent.
- Do keep your cool. Never lose your temper.
- Do treat students as you would like your child to be treated.
- Do set a good example in appearance and driving habit.
Always Remember

1. **Stop.** Failure to do so if you are involved is against state law. You could be arrested.

2. **Assist** all injured persons, but do not move them unless their safety is involved. Send someone to call for medical assistance and to call the school system. Be sure to give exact location, extent of injuries, and condition of your passengers.

3. **Protect** the scene and the bus. Set out warning devices as required.

4. **Complete** preliminary accident forms. Get the names and addresses of all witnesses — both for you and against you. Get the license number of any other driver involved.

5. **Be professional.** Give your name, license number and school system name. Do not discuss the accident with anyone except the police and school officials.

6. **Do not move the vehicle** until law enforcement officials arrive. Make pictures if possible.

7. **Every accident must be reported to your supervisor.** There are no minor accidents involving a school bus! The rules of the State Department of Education require all accidents to be reported to the Alabama State Department of Education.

Remember the information you need for your accident report:

- Vehicle number, driver’s name and address.
- Date, time, weather, and direction of travel.
- Damage to vehicle.
- Name of owner of other vehicle or property, address, license number, make and model of vehicle, and damage to other vehicle.
- Injuries to persons involved, their names, addresses, extent of injuries.
- List of passengers on the bus and in other vehicle(s).
- Names and addresses of passengers in other vehicles.
- Name of insurance companies involved.
- Name of police at scene.
- Diagram of accident scene.

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**What To Do in the Event of an Accident**

With careful driving habits, you may never be involved in an accident. However, the fact remains that a percentage of school bus drivers will be involved in an accident sometime in their driving career. Driving defensively will ensure that if you have such an accident, it will more likely be a very minor one.

There are two essentials to your conduct at the scene of an accident:

1. You must get as much information as possible about the accident and report it to the school system.

2. You must be courteous to those involved in the accident, including the police, any witnesses, and to any bystanders with whom he may come in contact.

You are responsible for protecting yourself and the school system by doing nothing that would reflect negatively on your dedication as a professional or on the school system.

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**BE ASSERTIVE!**

**ASSERTIVE BUS DRIVERS …**

- Are the boss on the bus.
- Say what they mean and mean what they say.
- Clearly and firmly tell students exactly how they want them to behave.
- Stay calm and use a normal tone of voice.
- Have a plan of action when students do not behave.
- Reward students when they do behave.

*Assertive Discipline for Bus Drivers, Lee Canter and Associates*
Test on Student Conduct and Accidents

True or False

_____1. Students should anticipate their unloading stop and assist the driver by being up at the front door as the bus is slowing for the stop.

_____2. The attitude of the driver is reflected in the attitude of the students.

_____3. Students should be allowed to talk as long as it does not distract the driver.

_____4. How you, the driver, dress will have a direct influence on student behavior.

_____5. To ensure fairness, drivers should wait a day or two before disciplining a student.

_____6. Drivers are required to follow local school board policies.

_____7. There are no minor accidents involving a school bus.

_____8. All school bus accidents must be reported to the State Department of Education.

_____9. Warning devices must always be set out to warn other vehicles when a bus is broken down, but not at an accident.

_____10. If involved in an accident and your bus is blocking traffic, go ahead and move it to a safe place until the police arrive.
Evacuation Drills

In an emergency, it is possible for children to injure each other by everyone trying to get off of the bus at the same time. Federal Guideline 17 provides that evacuation drills be conducted at least twice each school year. Students who are transported in a school vehicle shall participate in these drills. Almost every student will be a passenger during his school career. Evacuation drills should be conducted on the school campus.

Practicing safe and orderly unloading every day is the best way to be prepared for an emergency.

There are three primary ways to evacuate a bus.

1. Everyone exits through the front door.
2. Everyone exits through the emergency exit door.
3. Front half uses the front door and the back half uses the rear emergency exit door.

Using both exits simultaneously is the fastest method of getting students off the bus.

Other emergency exits include emergency windows and roof hatches. However, these emergency exits should be used only when it is not possible to use the front door and the rear emergency door. Examples of this include a bus rollover or fire, or collisions which prohibit the use of the doors.

Any time the bus is in a hazardous position, evacuation should be considered. If the bus is stalled on a railroad track, in an intersection, on the edge of a steep bank or below the crest of a hill, whether to evacuate or not is the driver’s decision. Evaluate the situation and ask yourself, “Are the students safer away from the bus?”

Example: You would not necessarily evacuate for a flat tire or deep snow, in extreme cold or intense lightning.

Remember: The welfare of the students is your main concern.

Hold your evacuation drill on school property, not on your bus route. Have students move 100 feet from the bus and assemble into a group. There is an urgent need, due to the increased number of students being transported and the ever-increasing number of accidents on the highways, to instruct students on how to properly vacate a school bus in case of an emergency. It is possible for students to block the emergency door if all are trying to get out at the same time. There is also a possibility of danger when students jump from an emergency door exit. To avoid these situations, schools should organize and conduct emergency exit drills for all students who ride the school bus on daily routes and on activity trips.

Reasons for actual emergency evacuations:

1. Fire or danger of fire. Being near an existing fire and unable to move the bus, or being need the presence of gasoline or other combustible material is considered danger of fire, and students should be evacuated. The bus should be stopped and evacuated immediately if the engine or any portion of the bus is on fire. Students should be moved to a safe place 100 feet or more from the bus and instructed to remain there until the driver has determined that the danger has passed.

2. Unsafe bus position. When the bus is stopped because of an accident, mechanical failure, or road conditions, the driver must determine immediately whether it is safer for students to remain on board or to evacuate the bus.

3. Mandatory evacuations. The driver must evacuate the bus when:
   a. The final stopping point is in the path of a train or adjacent to railroad tracks.
   b. The stopped position of the bus may change and increase the danger (e.g., a bus comes to rest near a body of water or at a precipice where is could still move and go into the water or over a cliff). The driver should be certain that the evacuation is carried out in a manner which affords maximum safety for the students.
c. The stopped position of the bus is such that there is danger of collision.

4. **Sight distance.** In normal traffic conditions, the bus should be visible for a distance of 300 feet or more. A position over a hill or around a curve where such visibility does not exist should be considered reason for evacuation.

5. **Presence of a tornado.** Students should be moved away from the bus and to the lowest spot possible.

**IMPORTANT FACTORS PERTAINING TO SCHOOL BUS EVACUATION DRILLS:**

1. Safety of students is of the utmost importance and must be first considered. The bus is secondary to the safety of the passengers.

2. All drills should be supervised by the principal or by persons assigned to act in such a capacity.

3. The bus driver is responsible for the safety of the students. When the driver is incapacitated and unable to direct the evacuation, school patrol members, appointed students, or adult monitors should be authorized to direct these drills. It is important to have regular substitutes available.

**Pupils selected to assist with evacuation drills should possess the following qualifications:**

a. Maturity.

b. Good citizenship.

c. Residence near end of bus route.

**Selected students should know how to:**

a. Turn off ignition switch.

b. Set emergency brake.

c. Summon help when and where needed.

d. Open doors and other emergency exits, and account for all students passing his exit.

e. Set out reflectors.

f. Help younger and disabled students off bus.

g. Perform other assignments.

4. Written consent from parents or guardians should be obtained before selecting a pupil as a leader.

5. Drills should be scheduled in a manner similar to fire drills held regularly in schools. They should be held more often during fall and spring months and conducted when the bus arrives at the school building with the students. Students who do not ride buses daily should be included in drills.

6. **Drills should be restricted to school property and conducted under the supervision of school officials.**

7. Types of drills should be varied.

8. You, the driver, should stay in the bus during evacuation drills. Set the parking brake, turn the ignition off and place the transmission in gear.

9. Students should not be permitted to take lunch boxes, books, etc., with them when they leave the bus. The objectives are to get students off safely in the shortest time possible and in an orderly fashion.

10. Students should travel a distance of at least 100 feet from the bus in an emergency drill and remain there until given further directions.

11. All students and drivers should participate in the drill, including those who ride only on special trips.

12. Each student should be instructed in proper safety precautions.

13. Students should be instructed in how and where to obtain assistance in emergencies. Written instructions and telephone numbers should be posted in the bus.

**There are three primary ways to evacuate a bus.**

1. Everyone exits through the front entrance door(s).

2. Everyone exits through the rear-most emergency door(s).

3. Front half exits through the front door and rear half exits through the rear-most door.
SUGGESTED EVACUATION PROCEDURE

1. Park the bus as close to the shoulder of the road as possible.
   a. Turn hazard lights on.
   b. Set the parking brake.
   c. Turn engine off.
2. Stand facing the rear of the bus.
3. Give the command: “Remain seated; prepare to evacuate.”
4. Turn toward the front of the bus.
5. Move backwards to the first occupied seat.
6. Starting with either the left or the right seat:
   a. Touch the shoulder of the person nearest to the aisle to indicate that the passengers in that seat are to move off.
   b. Keep the passengers in the opposite seat seated by holding the hand, palm out in a restraining gesture, until aisle is clear.
   c. Move out the passengers in the opposite seat, using the same signal.
7. Call or have someone call the fire department, the garage, and the school, as necessary. A fire at the front of the bus may make the regular entrance unusable and an alternate route of evacuation necessary. Normally, the front entrance will be available, but the emergency door can be used as the primary exit. Evacuation through both doors is fastest, with the rear monitor working forward seat by seat and the driver working backward seat by seat. Newer buses also have emergency window exits in the middle of each side. The windshield and rear windows can also be pushed out to facilitate evacuation. Always evacuate the bus if fuel must be added enroute. Check on local policies on special education buses.

GENERAL SAFETY RULES

1. No written procedure can cover every type of emergency that may arise. However, the procedures listed here should be followed as closely as possible.
2. Get students completely out of danger before attempting any other action.
3. Do not endanger yourself by fighting a fire; follow your training to the extent of your training.
4. Do not allow students to re-enter the bus until the fire department has checked the bus and assured you that the fire, minor or not, has been extinguished.
5. If mechanical damage is suspected, do not reload the bus until the county garage mechanic has checked it and certified that it is safe to use.
6. If told to do so by firemen, or the mechanic, move the bus, empty of passengers, to clear traffic lanes.

Remember:
A bus can be replaced; a student can not.

Test on Emergency Evacuation

True or False

_____ 1. School bus evacuation drills should be held at least three times per year.
_____ 2. School bus evacuation drills should be held on your route to make it as real as possible.
_____ 3. The fastest way to evacuate a bus is to use the front and rear exits simultaneously.
_____ 4. During intense lightning, you should evacuate the bus and take refuge in a ditch or low area.
_____ 5. In the event of an accident, the bus should always be evacuated.
_____ 6. If a bus is stalled on a railroad track, evacuate immediately.
_____ 7. Students should take all their books and other personal items with them when they evacuate the bus.
_____ 8. In order to evacuate a bus quickly, students should jump out the rear emergency exit.
ALABAMA ROAD SIGNS

It is the language you must know well if you are to drive safely. In recent years, traffic signs throughout the United States have taken on a new look. In many cases symbols and pictorial silhouettes have replaced words. They provide instant communication for those who might have trouble reading or for those who speak another language. It is important to know their shapes and colors.

REGULATORY SIGNS

- **Stop**
- **Yield**
- **Speed Limit**
- **No Left turn**
- **No Right Turn**
- **No U Turn**
- **Railroad Crossing**
- **Left Turn Only**
- **Thru and Left**
- **Double Left Turns**
- **Keep Left**
- **Keep Right**
- **Walk On Left Facing Traffic**
- **Stop For School Bus Loading Or Unloading**
- **Reserved Parking**
- **Slower Traffic Keep Right**
- **Traffic All Lanes Stop While School Buses Load Or Unload**
- **Signal Ahead**
- **Merging Traffic**
- **Lane Drop**
- **Divided Highway**
- **Divided Highway Ends**
- **Two-Way Traffic**
- **Steeple Grade**
- **Slippery When Wet**
- **Cattle Crossing**
- **School Bus Stop**
- **Low Clearance**
- **No Passing**
- **School Zone**
- **School Crossing**
- **Railroad Warning**
- **Side Road**
- **Right Turn**
- **Curve Right**
- **Farm Machinery**
- **Side Road**
- **Winding Road**
- **Stop Ahead**
- **Yield Ahead**
- **Construction Ahead**
ALABAMA SCHOOL BUS DRIVER SKILLS TEST

Pre-Trip Test (56 items required to pass)

<table>
<thead>
<tr>
<th>Pre-Trip Test</th>
<th>BASIC CONTROL SKILLS TEST</th>
<th>ROAD TEST (10 errors or less required to pass)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaks</td>
<td>Ammeter/voltmeter</td>
<td>Regular Traffic Cks.</td>
</tr>
<tr>
<td>Coolant level</td>
<td>Gearshift</td>
<td>Selects Proper Lane</td>
</tr>
<tr>
<td>Oil level</td>
<td>Lighting indicators</td>
<td>Keeps Veh in Lane</td>
</tr>
<tr>
<td>Power steering fluid</td>
<td>Horn</td>
<td>Speed/Follow Dist.</td>
</tr>
<tr>
<td>Belts</td>
<td>Heaters/defroster</td>
<td>Lane Change</td>
</tr>
<tr>
<td>Hoses, Wires</td>
<td>Oil pressure builds</td>
<td>Grade</td>
</tr>
<tr>
<td>Battery</td>
<td>Steering play</td>
<td>Proper Gear</td>
</tr>
<tr>
<td>Steering box</td>
<td>Mirrors/windshield</td>
<td>Speed</td>
</tr>
<tr>
<td>Steering linkage</td>
<td>Safety/yourg/equip</td>
<td>Traffic Check</td>
</tr>
<tr>
<td>Springs</td>
<td>Wipers</td>
<td>Parking Brake</td>
</tr>
<tr>
<td>Spring mounts</td>
<td>Transmission fluid</td>
<td>Fuel tank</td>
</tr>
<tr>
<td>Shock absorbers</td>
<td>Air Brake Check</td>
<td>Fuel tank leaks</td>
</tr>
<tr>
<td>Brake drums</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake hoses/lines</td>
<td>1. Checks for air leak</td>
<td></td>
</tr>
<tr>
<td>Brake chambers</td>
<td>2. Pumps pressure down</td>
<td></td>
</tr>
<tr>
<td>Slack adjusters</td>
<td>3. Air buzzer sounds</td>
<td></td>
</tr>
<tr>
<td>Tires</td>
<td>4. Pressure valve pops</td>
<td></td>
</tr>
<tr>
<td>Rims</td>
<td>5. Parking brake check</td>
<td></td>
</tr>
<tr>
<td>Hub Oil Seals</td>
<td>(All 5 items required to pass)</td>
<td></td>
</tr>
</tbody>
</table>

Number of Errors

Forward Stop/Straight Backing
Stop Line (2 ft) Acceptable ( ) Needs Training ( )
Pull-Ups 1 2 3 Pass ( ) Fail ( )
Vehicle Control Pass ( ) Fail ( )
Final Score Pass ( ) Fail ( )

Comments:

Alley Dock
Pull-Ups 1 2 3 Pass ( ) Fail ( )
Rear Dock Stop Line Acceptable ( ) Needs Training ( )
Vehicle Control Pass ( ) Fail ( )
Final Score Pass ( ) Fail ( )

Comments:

Urban
Regular Traffic Cks. Selects Proper Lane
Keeps Veh in Lane Speed/Follow Dist.
Lane Change

Rural
Proper Gear
Speed
Traffic Check

Loading and Unloading
Passengers
Traffic/Mirror Checks
Yellow Warning Lmts.
Use of Foot Brake
Vehicle Position
Door Ctrl./Traffic Check
Parking Brake
Student Checks/Comm.

Bridges/Signs

Stop
On Grade
Start
Emergency Stop
Traffic Check
Signals On/Off
Traffic Check

Braking
Hazard Lights
Hazard Lights

Handout
Procedures for Loading, Unloading, Railroad Crossings, and Backing

RULES TO LOAD AND UNLOAD STUDENTS

1. The driver should NEVER change stops. Unsafe situations should be reported to the supervisor.
2. Students should load or unload ONLY at their school or designated stop.
3. Stops should be visible at least 500 feet in both directions.
4. Stops should be at least 100 feet from railroad tracks and intersections.
5. Stops on interstate highways are prohibited.
6. Students should NOT cross a median or divided highway.
7. Students should wait on the side of the road on which they live.
8. Students should cross the street 10 feet in FRONT of the bus - NEVER behind the bus.
9. Stops should always be in the RIGHT, OUTSIDE LANE, NEVER in the left lane (NEVER in a TURN LANE and NEVER WITH A TURN LANE TO THE RIGHT OF THE BUS).
10. Normally, students are safer ON the bus when the bus is backing.
11. Always communicate with students. Use both verbal and non-verbal (hand signals) directives when loading and unloading.

DRIVER PROCEDURE

1. Check traffic, weather and road conditions to determine a safe distance needed to warn traffic of an upcoming stop.
2. Activate yellow warning lights a safe distance (at least 300 feet in rural areas and 100 feet in urban areas).
3. Stop 10 feet before loading or unloading area:
   a. Release door immediately to activate red flashing lights and stop sign.
   b. Apply parking brake.
   c. Open door immediately.
4. Students should load in an orderly fashion after the bus stops, all traffic stops and the bus driver signals them to load.
5. Students should be seated before the bus moves.
6. Before moving the bus, the driver must:
   a. Release parking brake.
   b. Check all mirrors, especially front crossover and side mirrors.
7. During the loading and unloading process, the driver should COUNT the students and move the bus ONLY after ALL students are safely on the side of the road on which they live or in their seats. Be alert for students’ apparel or carry-on items being caught on the bus handrail, door, door handle, etc.
8. All students who live on the left side of the road should exit first and cross in single file.

RAILROAD CROSSINGS

1. Check traffic in front and behind the bus.
2. Activate hazard lights (500 feet is a good “rule of thumb”) before the crossing or at the railroad warning sign.
3. Have students trained to be quiet and still. Turn off heaters, defrosters, fans, radio, and open the window.
4. Stop no closer than 15 feet nor farther than 50 feet from the nearest track.
5. Open door and APPLY parking brake. Look and listen. (If train is approaching, close door until it passes.)
6. When clear, release parking brake and close door. (Never move with the door open.)
7. Cross the tracks as quickly and safely as possible.
8. Turn off hazard lights after crossing tracks and resuming normal speed.

BACKING PROCEDURE

1. Helper seated in back seat of bus.
2. Hazard lights.
3. Horn.
4. Check all mirrors constantly and over both shoulders.
5. Back slowly and no farther than necessary.

Always back with students on the bus. Load and then back — back and then unload. Be certain to visually inspect the area behind the bus BEFORE BACKING!
There is an urgent need, due to the increased number of students being transported and the ever-increasing number of accidents on the highways, to instruct students on how to properly vacate a school bus in case of an emergency. It is possible for students to block the emergency door if all are trying to get out at the same time. There is also a possibility of danger when students jump from the rear emergency door exit. To avoid these situations, schools should organize and conduct emergency exit drills for all students who ride the school bus.

**Reasons for actual emergency evacuations:**

1. **Fire or danger of fire.** Being near an existing fire and unable to move the bus, or being near the presence of gasoline or other combustible material is considered danger of fire, and students should be evacuated. The bus should be stopped and evacuated immediately if the engine or any portion of the bus is on fire. Students should be moved to a safe place 100 feet or more from the bus and instructed to remain there until the driver has determined that the danger has passed.

2. **Unsafe position of the bus.** When the bus is stopped because of an accident, mechanical failure, road conditions, or human failure, the driver must determine immediately whether it is safer for students to remain on board or to evacuate the bus.

3. **Mandatory evacuations.** The driver must evacuate the bus when:
   a. The final stopping point is in the path of a train or adjacent to railroad tracks.
   b. The stopped position of the bus may change and increase the danger (e.g., a bus comes to rest near a body of water or at a precipice where it could still move and go into the water or over a cliff). The driver should be certain that the evacuation is carried out in a manner which affords maximum safety for the students.
   c. The stopped position of the bus is such that there is danger of collision.

4. **Sight distance.** In normal traffic conditions, the bus should be visible for a distance of 300 feet or more. A position over a hill or around a curve where such visibility does not exist should be considered reason for evacuation.

**Important factors pertaining to school bus evacuation drills:**

1. Safety of students is of the utmost importance and must be first considered.

2. All drills should be supervised by the principal or by persons assigned to act in a supervisory capacity.

3. The bus driver is responsible for the safety of the students. When the driver is incapacitated and unable to direct the evacuation, school patrol members, appointed students or adult monitors should be authorized to direct these drills. It is important to have regular substitutes available.

**Pupils assigned to assist with evacuation drills should possess the following qualifications:**

a. Maturity,
b. Good citizenship,
c. Residence near end of bus line.

**Assigned students should know how to:**

a. Turn off ignition switch,
b. Set emergency brake,
c. Summon help when and where needed,
d. Open and close doors, and account for all students passing his exit,
e. Set out reflectors,
f. Help small students off bus, and
g. Use radio to contact school officials, and
h. Perform other assignments.

4. Written consent from parents or guardians should be obtained before assigning a pupil as a leader.

5. Drills should be scheduled in a manner similar to fire drills held regularly in schools. They should be held more often during fall and spring months and conducted when the bus arrives at the school building with the students.
6. Drills should be restricted to school property and conducted under the supervision of school officials.

7. Types of drills should be varied.

8. You, the driver, should stay in the bus during evacuation drills. Set the parking brake and turn the ignition off.

9. Students should not be permitted to take lunch boxes, books, etc., with them when they leave the bus. The objectives are to get students off safely in the shortest time possible and in an orderly fashion.

10. Students should travel a distance of at least 100 feet from the bus in an emergency drill and remain there until given further directions.

11. All students should participate in the drill, including those who ride only on special trips.

12. Each student should be instructed in proper safety precautions.

13. Students should be instructed in how and where to obtain assistance in emergencies. Written instructions and telephone numbers should be posted in the bus.

**There are three primary drills (see p. 50):**

1. Everyone exits through the front entrance door(s).

2. Everyone exits through the rear-most emergency door(s).

3. Front half exits through the front door and rear half exits through the rear-most door. (See Diagram)

4. Drivers should always check to see that every student has evacuated the bus.

---

**72 PASSENGER BUS**

*(3 students to a seat)*
Alabama Department of Education
School Bus Driver Training Certification

School System/Agency

This is to certify that _____________________________________, a prospective school bus driver for the above school system or agency has received ________ hours of training from a state-approved driver trainer.

THE FOLLOWING TOPICS WERE TAUGHT AND ON-THE-ROAD DRIVING PRACTICE WAS PROVIDED DURING THIS TRAINING:

a. General school board regulations    k. Turning
b. School bus route, schedule, and stops  l. Backing
   c. Loading, unloading, and seating arrangements   m. Starting
d. Emergency evacuation of the bus  n. Stopping
e. Conduct of the pupils on the bus  o. Parking
f. Road speeds  p. Passing
g. Use of brakes  q. Following
h. Steering  r. Signaling
i. Pre-trip inspection  s. Weather conditions
j. Post-trip inspection  t. Accident procedures

I further certify that this driver is qualified to attempt the required performance tests to include the pretrip inspection test, backing test, and on-the-road driving test required for an Alabama School Bus Driver Certificate and a Commercial Driver License.

TO BE SIGNED BY THE SYSTEM DRIVER TRAINER OR SUPERVISOR:

___________________________________________________          ___________________________
Supervisor or Driver Trainer    Date

TO BE SIGNED BY THE PROSPECTIVE SCHOOL BUS DRIVER:

I hereby certify that I have been trained by the my school system’s school bus driver trainer and am qualified to attempt the required performance tests to include the pretrip inspection test, backing test, and on-the-road driving test required for an Alabama School Bus Driver Certificate and a Commercial Driver License.

___________________________________________________          ___________________________
Prospective School Bus Driver    Date
BLANK
PRINTER, PLEASE REMOVE
As A School Bus Driver
You Transport

The Most Precious Cargo!