



Flash Cards

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AIR SUPPLY SYSTEM INSPECTION



1. AIR LEAK CHECK
2. LOW AIR WARNING CHECK
3. PARKING BRAKE CHECK
4. SAFETY START ENGINE
5. AIR GOVERNOR CUT OUT CHECK

1. AIR LEAK CHECK



Let the air gauge stabilize; depress brake pedal and hold, release parking brake. Tell tester, **“Hold for 1 minute, Air loss cannot exceed 3 PSI”**. Tell tester what PSI is after the 1 minute and report no air loss.

2. LOW AIR WARNING CHECK



Slowly pump air pressure down to check low air pressure warning devices. Tell tester, **“Buzzer and warning light must activate at 60 psi or above”**. Tell tester what PSI was when warnings occurred.

3. PARKING BRAKE CHECK



Continue pumping down air pressure until parking brake pops on ; Tell tester, **At approximately 40 PSI**. Tell tester what PSI was when parking brake activated.

4. SAFETY START ENGINE

Tell tester, "I'm doing a safety start" demonstrate by making sure transmission is in neutral and pulling on the parking brake. While foot is on brake pedal, start the bus. Tell tester, **"ABS light came on and went off"**. With the engine running, build air pressure to maximum by letting engine idle at 1200-1500 RPM's.

Air gauge

5. AIR GOVERNOR CUT OUT CHECK



Ammeter / Voltmeter



With engine running, build air pressure to maximum. Tell tester, **“air governor should cut out at 120-140 PSI”**.
Tell tester what PSI was when air governor cuts out.

Shows charging, system is working properly, warning light is off.

INTERIOR INSPECTION

1. PASSENGER ENTRY
2. EMERGENCY EQUIPMENT
3. SEATING
4. EMERGENCY EXIT

EMERGENCY EXIT Side Exits / Back Exit



Lift red handle, opens smoothly and locks in open position,
no damage and closes securely, from inside.

REFLECTIVE TAPE



Is present, securely attached.

LEFT SIDE EXTERIOR



1. SIDE LIGHTS & LENSES (between axles)
2. BAGGAGE DOOR
3. SIDE EMERGENCY EXIT
4. REFLECTIVE TAPE & LENSES

SIDE EMERGENCY EXIT



Opens smoothly and locks in open position, no damage and closes securely from outside.

BAGGAGE DOOR



Baggage Compartments (1) Check that baggage and all other exterior compartment doors are not damaged, operate properly, and latch securely.

NOTE: Driver must open at least one.

Recommend open the fuse box door or first door you come to and refer to method 2. "I would inspect them all the same way".

PASSENGER ENTRY

Entry door



Demo by hand, opens smoothly, closes securely from the inside/outside, hinges secure, seals intact, no damage to glass.

DOOR WINDOWS ARE CLEAN

EMERGENCY EXIT

Service door



Demo air release switch, push open.

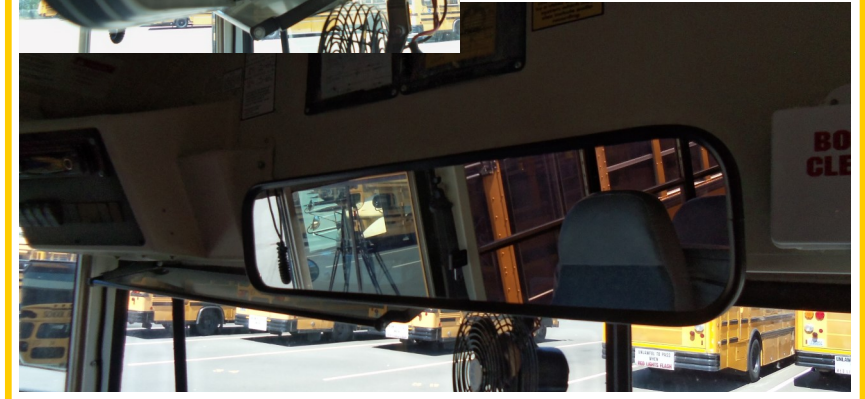
BRAKE CHECKS



1. PARKING BRAKE CHECK
2. SERVICE BRAKE CHECK



STUDENT MIRROR



Student Mirrors (1)

In addition to checking the external mirrors, school bus drivers must also check the internal and external mirrors used for observing students: Check for proper adjustment.

Check that all internal and external mirrors and mirror brackets are not damaged, mounted securely, and are clean.

WATER PUMP



Identify the water pump

- Mounted properly and not loose.
- Belt driven Demo for Deflection
(1/2-3/4 inch play at center of belt).
- Check for: NO cracks or frays. NO sign of wear.

GEAR or BELT

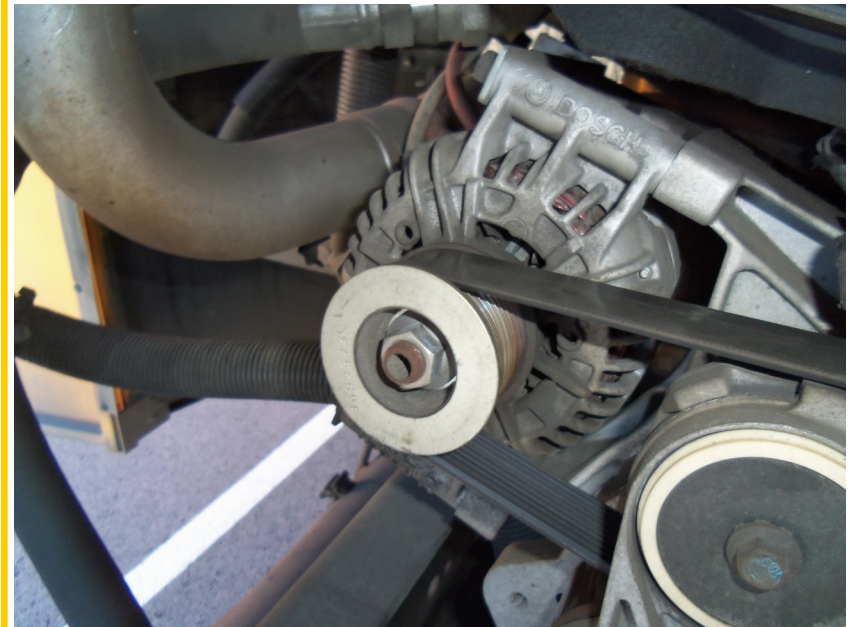
Belt criteria or Gear is NOT leaking, NOT damaged.
- mounted securely, operating properly -

ENGINE COMPARTMENT



1. BELTS
2. ALTERNATOR
3. WATER PUMP
4. POWER STEERING UNIT
5. AIR COMPRESSOR
6. ENGINE OIL
7. TRANSMISSION OIL
8. HOSES
9. HOSE CLAMPS
10. LEAKS UNDER BUS

ALTERNATOR



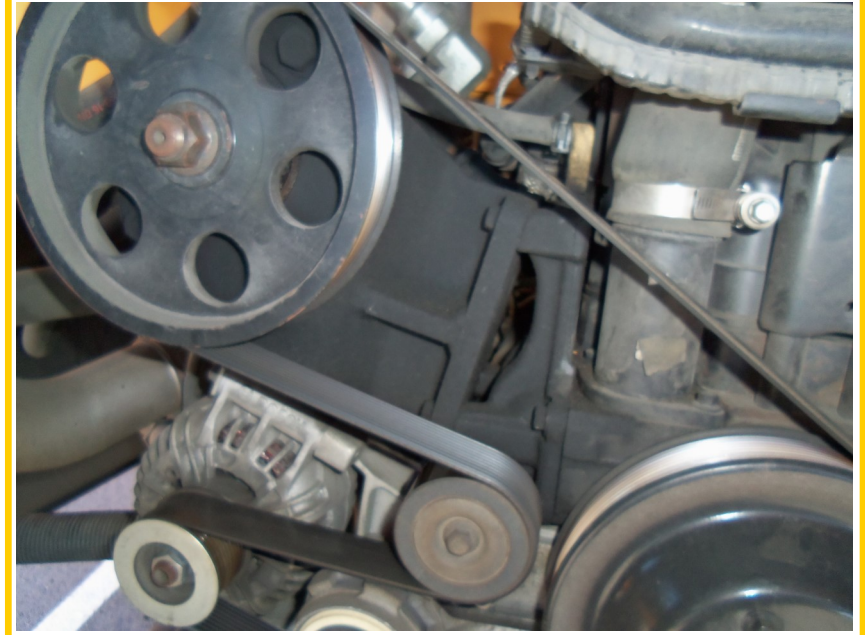
Identify alternator

- Secure, all wires securely fastened.
- Belt driven Demo for Deflection
(1/2-3/4 inch play at center of belt).
- Check for: NO cracks or frays. NO sign of wear.

GEAR or BELT

Belt criteria or Gear is NOT leaking, NOT damaged.
- mounted securely, operating properly -

BELTS



Demo for Deflection (1/2-3/4 inch play at center of belt).

Check for: NO cracks or frays. NO sign of wear.

- Power steering belt.
- Water pump belt.
- Alternator belt.
- Air compressor belt.

FRONT AXLE



1. TIRES
2. TREAD
3. RIMS
4. LUG NUTS
5. HUB OIL SEAL / AXLE SEAL

REAR BRAKES

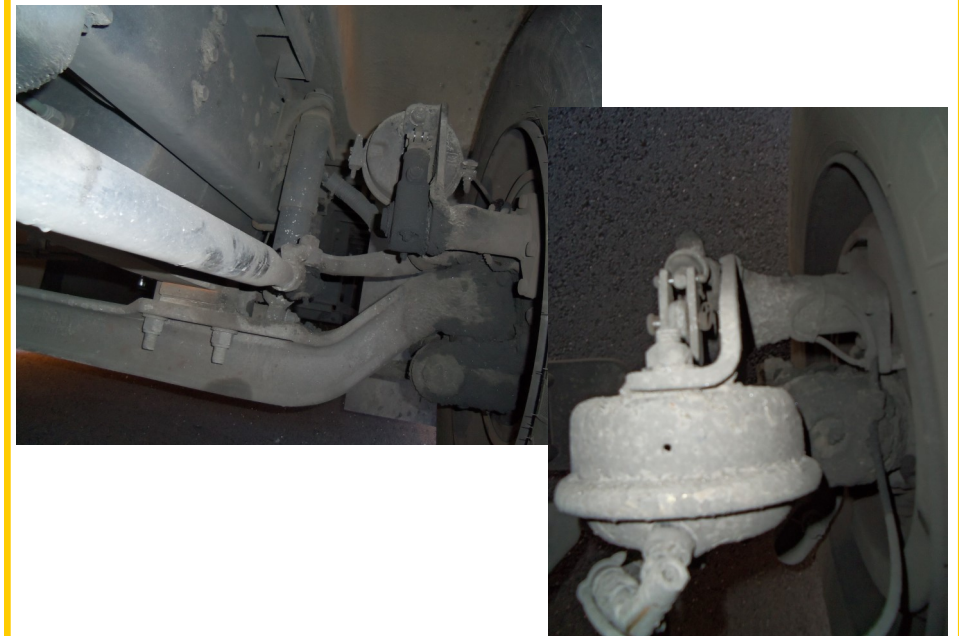
(Inspected the same as the front)



INSPECT ALL THE FOLLOWING, SAME AS THE FRONT

- Brake Chamber
- Slack Adjuster/Push Rod
- Brake Drum
- Brake Linings
- Hose/Hose Couplings

FRONT BRAKES



1. BRAKE HOSES & LINES
2. HOSE COUPLINGS or FITTINGS
3. BRAKE CHAMBER
4. SLACK ADJUSTERS & PUSH RODS
5. BRAKE DRUM & ROTORS
6. BRAKE LININGS

1. BRAKE HOSES & LINES



BRAKE HOSES / LINES

Look for cracked, worn, frayed, or leaking hoses, lines and couplings.

If **hydraulic**, check for leaks

If **air**, listen for leaks

3. BRAKE CHAMBER



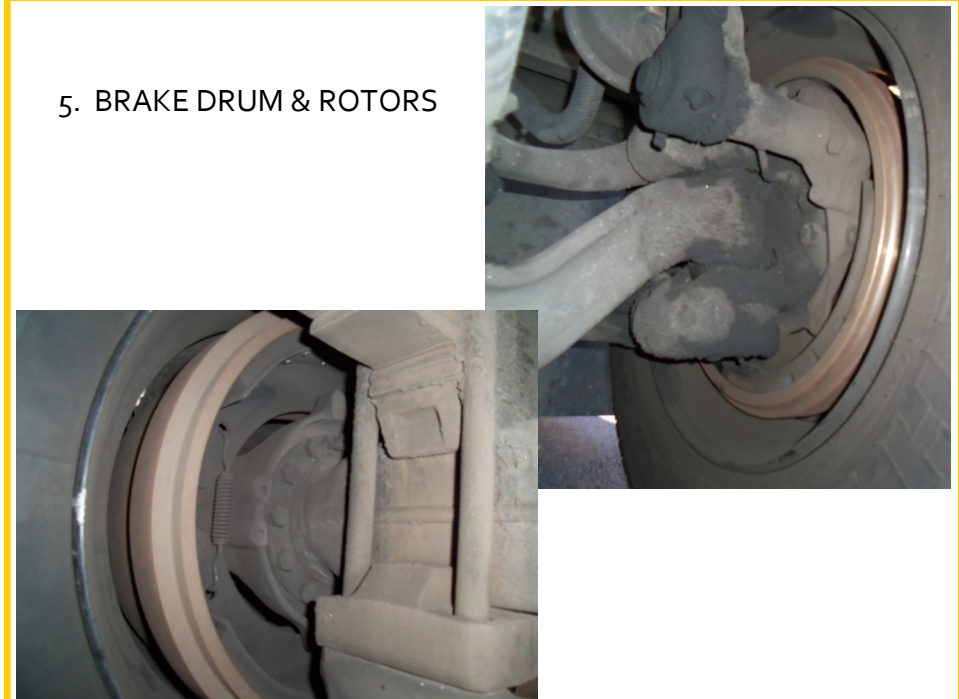
NO cracks, dents, leaking, NO loose, missing, clamps, securely mounted.

4. SLACK ADJUSTERS & PUSH RODS



Check brake adjustment and slack adjuster push rod, should not move more than one inch when pulled by hand or with brake released. NO loose, broken, missing parts. NOT bent. Securely mounted slack adjuster and push rod.

5. BRAKE DRUM & ROTORS



6. BRAKE LININGS



Brake Drum

- Check for cracks, dents, or holes. Also check for loose or missing bolts.
- Check for contaminants such as debris or oil/grease.

DRIVE SHAFT / EXHAUST / FRAME

(Back left side engine door)

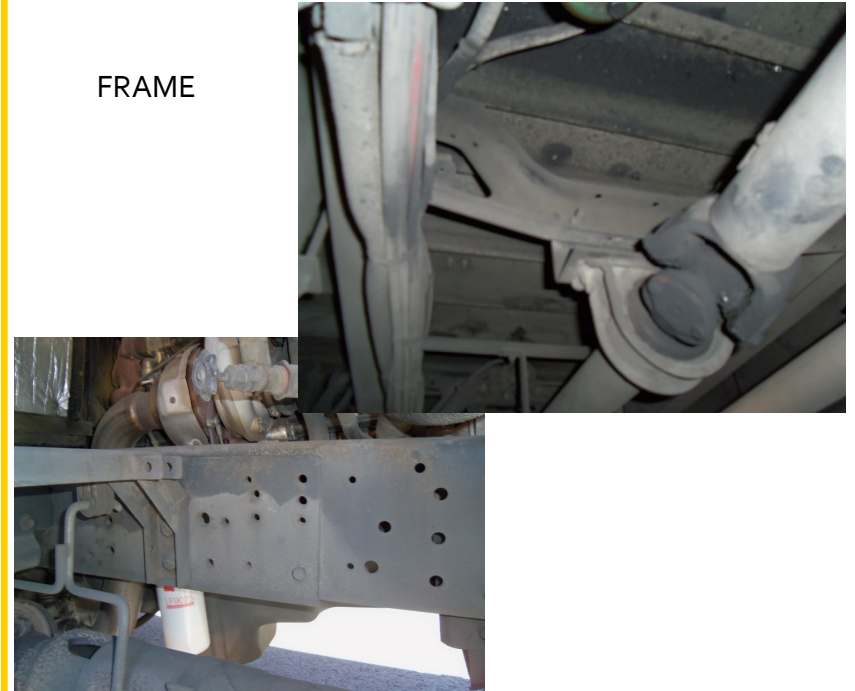


Brake linings

- Brake linings should not be worn dangerously thin.
- Check the brake linings for contaminants, such as grease, oil, etc.

1. DRIVE SHAFT
2. EXHAUST
3. FRAME
4. COOLANT LEVEL

FRAME



Frame

- Check for cracks, bends, broken welds, holes or other damage in the longitudinal frame.
- Look for loose, cracked, bent, broken, or missing cross members.
- Look for signs of breaks or holes in the box or floor.

COOLANT LEVEL



Coolant Level

- Inspect reservoir sight glass, or
- If engine is NOT hot, remove radiator cap and check for visible coolant level. If engine is hot, describe what they would look for once cap is removed.

DRIVE SHAFT



Drive Shaft

- See that drive shaft is NOT bent, cracked, or twisted.
- Couplings or u-joints should be secure and free of foreign objects.

REAR SUSPENSION

AIR RIDE COMPONENTS (full air ride suspension)

- inspected the same as the front -



6. REAR MUD FLAPS



Inspect all the following, same as the front:

SPRING HANGERS / SPRINGS / SHOCK ABSORBER / U-BOLTS

- If vehicle is equipped with torsion bars, torque arms, or other types of suspension components, check that they are NOT damaged and are mounted securely
- Air ride suspension/Air bags should be checked for damage and leaks.
- Airbag mounts are in place and not damaged.

Splash Guards / Mud Flaps (1) - MUST be checked at rear axle
If equipped, check that splash guards or mud flaps are not damaged and are mounted securely.

REAR AXLE

TREAD / HUB OIL SEAL / DISC RIMS

- inspected the same as the front -



SIDE LIGHTS & LENSES

(Between Axles)



Tread depth: Check for minimum tread depth (4/32 on steering axle tires, 2/32 on all other tires). Inspect for major grooves and that treads worn evenly.

TIRES / RIMS / LUG NUTS: Inspected same as front.

HUB: is sealed and NOT leaking.

Spacers or Budd Spacing (1)

If equipped, check that spacers are not bent, damaged, or rusted through.

Check disc (Budd) wheels for even spacing, damage, and foreign objects.

Check all light lenses and reflective equipment on the side of vehicle the same way as the front. They are clean and not damaged, and are the correct color for their function/location.

Identify each light by pointing to each, confirming correct color for its function/location, and saying what color each light is.

Marker/clearance lights Amber

Turn signal Amber

Reflective Tape & Lenses

Reflective Tape: Present and securely affixed to bus

Reflector Lenses: Clean, Not broken or missing ,Amber

STEERING LINKAGE

(FLUID ACCESS door)



Steering Linkage

See that connecting links, arms and rods from the steering box to the wheel are not worn or cracked.

Check that joints and sockets are not worn or loose and that there are no missing nuts, bolts, or cotter keys/pins.

1. STEERING BOX
2. POWER STEERING HOSES
3. STEERING LINKAGE

STEERING



2. POWER STEERING HOSES
(FLUID ACCESS door)



Check for power steering fluid leaks or damage to power steering hoses.

1. STEERING BOX (FLUID ACCESS door)



Steering Box

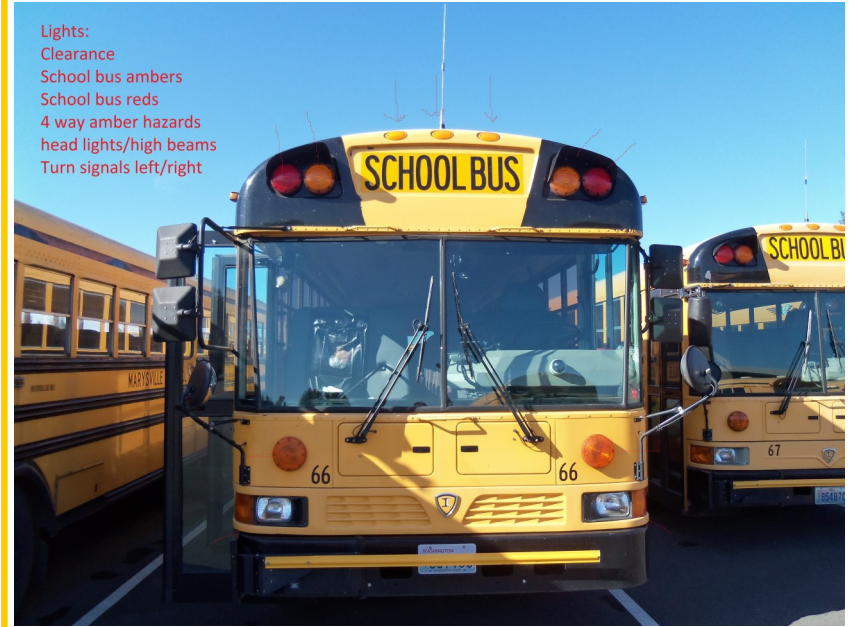
Check that the steering box is securely mounted and not leaking. Look for any missing nuts or bolts.

WIPERS



EXTERIOR INSPECTION

Lights:
Clearance
School bus ambers
School bus reds
4 way amber hazards
head lights/high beams
Turn signals left/right



Arms / Blades

- Securely mounted, not damaged, & operates smoothly.
- Washers must operate correctly and have fluid.

STOP PADDLE



1. SERVICE DOOR
2. RIGHT / LEFT SIDE MIRRORS
3. FRONT LIGHTS & LENSES
4. REFLECTIVE TAPE & LENSES
5. WINDSHIELD
6. WIPERS
7. CROSSING ARM

Stop Paddle / Safety Arm

- Check the stop arm/paddle to see that it is mounted securely to the frame of the vehicle.
- Also, check for loose fittings and damage.
- Check that the stop arm/paddle extends fully when operated and lights are operational on both sides.

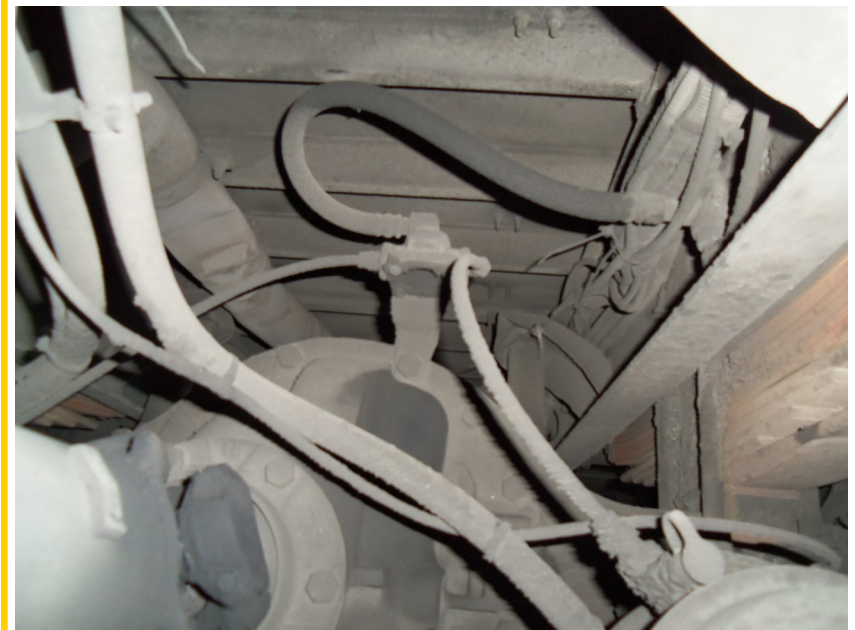
CROSSING ARM



Crossing Arm

Check that the safety arm is securely mounted and functions properly in conjunction with stop paddle.

2. HOSE COUPLINGS or FITTINGS



- All connections, couplings and fittings need to be secure and not leaking.
- Check that hoses or lines can supply air/hydraulic fluid.

3. SPRINGS



NOT cracked, broken, missing, shifted.

FRONT SUSPENSION



1. SPRING HANGERS
2. SHOCK ABSORBERS
3. SPRINGS
4. U BOLTS

1. SPRING HANGERS



Mounts:

Spring Hangers: Not cracked or broken.

Bushings: Not missing or damaged.

2. SHOCK ABSORBERS



Secure and NOT leaking.

4. U BOLTS



NOT loose, broken, missing, secure to the bus.
Includes other axle mounting parts.

1. TIRES



TIRES (5)

Tread depth: Check for minimum tread depth ($4/32$ on steering axle tires, $2/32$ on all other tires).

Tire condition: Check that tread is evenly worn and look for cuts or other damage to tread or **sidewalls**. Also, make sure that **valve cap and stems** are not missing, broken, or damaged.

Tire inflation: Check for proper inflation by using a tire gauge.

NOTE: You will not get credit if you simply kick the tires and check for proper inflation.

2. FRONT TREAD



Tread depth $4/32$

4. LUG NUTS



Lug Nuts

Check that all lug nuts are present, free of cracks and distortions, and show no signs of looseness such as rust trails. Make sure all bolt holes are not cracked or distorted.

5. HUB OIL SEAL / AXLE SEAL



Check oil level through site glass (if removable), not leaking oil / grease.

REFLECTIVE LENSES



Amber/Red Clean, not damaged & correct color for location

NOTE: say what correct color is, "Reflectors are amber"

EMERGENCY EQUIPMENT



First Aid Kit: Identify.

Body Fluid Kit: Identify.

Reflective triangles: 3 each, Identify.

Fire extinguisher: Properly charged and secured.

Spare fuses: 6 fuses in driver compartment -OR- bus has circuit breaker and does not require fuses.

SERVICE DOOR LIGHT



Working properly.

WINDSHIELD



Is clean, no damage to glass, has no obstructions.

SEATBELT



Securely fastened, adjusted properly, NOT ripped, frayed, and assembly securely mounted.

TACHOMETER

Tells the number of revolutions the engine is turning per minute.

WATER TEMPERATURE

Oil Pressure

Air Pressure



Working properly. Climbing to normal operating range.
Warning light is off.

Air Gauge

- Make sure the air gauge is working properly.
- Build air pressure to governor cut-out, roughly 120-140 PSI or as specified by the manufacturer.

Exhaust System

- Check system for damage and signs of leaks such as rust or carbon soot.
- System should be connected tightly and mounted securely and there are no loose clamps.
- The exhaust system should have no cracks, holes, or severe dents.

EXHAUST



HOSES



Inspect hoses for condition and leaks. NO damage.

LEAKS UNDER BUS



Leaks

- Look for puddles on the ground.
- Look for dripping fluids on underside of engine and transmission.

POWER STEERING UNIT / DIPSTICK



AIR COMPRESSOR



Power Steering Fluid

- Indicate where power steering fluid dipstick is located.
- Check for adequate power steering fluid level.
- IF Belt driven:
 - Demo for Deflection (1/2 to 3/4 inch play at center of belt).
 - Check for: NO cracks, NO frays, NO signs of wear.

Gear or Belt criteria: Mounted securely, operating properly, NOT leaking, NOT damaged.

Air Compressor

- Identify location, securely mounted, no air or fluid leaks.
- IF Belt driven:
 - Demo for Deflection (1/2 to 3/4 inch play at center of belt).
 - Check for: NO cracks, NO frays, NO signs of wear.

Gear or Belt criteria: is not leaking, no damage, mounted securely, operating properly.

FUEL TANK (open fuel door)



Fuel Tank (1)

Check that tank(s) are secure, cap(s) are tight, and that there are no leaks from tank(s) and caps.

RIGHT / LEFT SIDE MIRRORS



Brackets

Not damaged, securely mounted, properly adjusted, no damage to brackets or loose fittings.

Mirrors

Securely mounted to brackets, properly adjusted, no damage & CLEAN.

SEATING: CUSHIONS & FRAMES



Cushions

Securely mounted to the frame.

Frame

Securely mounted to the floor. NOT BROKEN.

EMERGENCY EXIT: Rear & Front Roof Exits



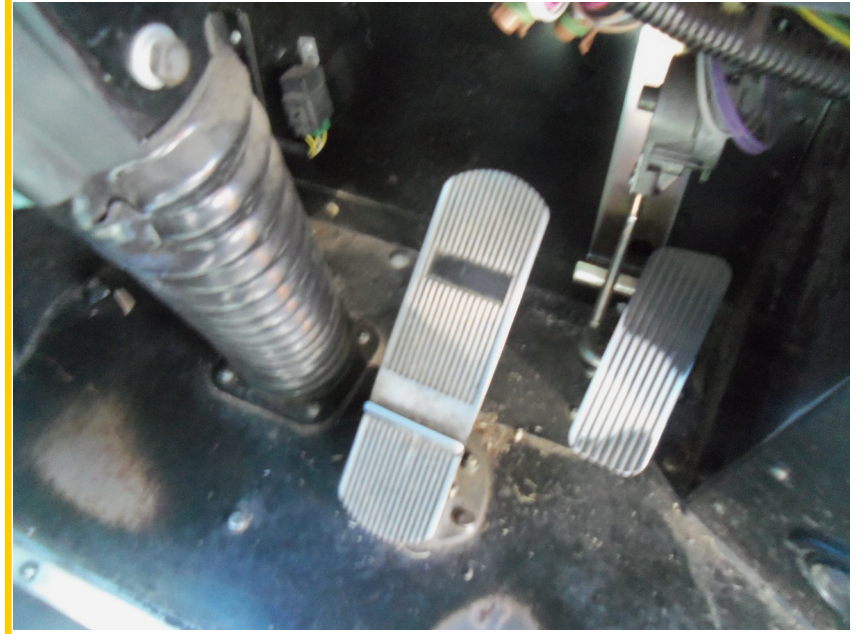
Turn red handle, opens smoothly, no damage, and closes securely from inside.

PASSENGER ENTRY: Steps



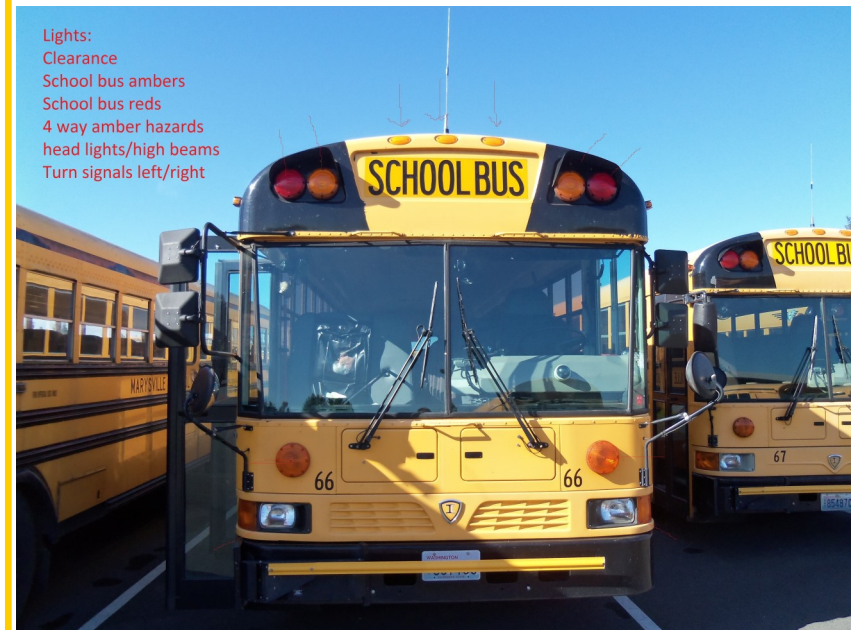
Are clear, tread is not excessively worn, loose.

SERVICE BRAKE CHECK



FRONT LIGHTS & LENSES

Lights:
Clearance
School bus ambers
School bus reds
4 way amber hazards
head lights/high beams
Turn signals left/right



Service Brake Check

Brake off, bus in gear. Pull forward slowly (up to 5 mph), apply the service brake and stop. Check to see that the vehicle does not pull to either side and that it stops when brake is applied.

Tell tester, service brake is "working properly".

NOTE: Turn tire left for ease of visual inspection of brakes and suspension parts.

REAR LIGHTS, LENSES, & REFLECTIVE TAPE



Lights / Reflectors / Reflector Tape condition (front, sides, & rear)

Check that all external lights and reflective equipment are clean and functional. Not broken, or missing and proper color for their function.

Lights and Reflector checks include:

- Clearance lights: Red on rear, Amber elsewhere
- Headlights & high beams : clear
- Left & Right Turn Signal: Amber
- Four-way emergency flashers: Amber
- Strobe light, if equipped
- Stop Arm/Paddle light: Red
- Alternately Flashing lights: Red and Amber
- Red reflectors (on rear) - Amber reflectors (elsewhere)
- Reflector tape condition

Reflective tape: Present, clean and securely affixed to bus

Reflector lenses: Not broken or missing ,Amber

Lights / Reflectors / Reflector Tape condition (front, sides, & rear)

Check that all external lights and reflective equipment are clean and functional. Not broken, or missing and proper color for their function.

Lights and Reflector checks include:

- Clearance lights: Red on rear, Amber elsewhere
- Brake & Tail lights: Red
- Left & Right Turn Signal: Amber
- Four-way emergency flashers: Amber
- Strobe light, if equipped
- Stop Arm/Paddle light: Red
- Alternately Flashing lights: Red and Amber
- Red reflectors (on rear) - Amber reflectors (elsewhere)
- Reflector tape condition

Reflective tape: Clean and securely affixed to bus

Reflector lenses: Not broken or missing Red