



Front of Vehicle

- Check under vehicle for any leaks
- All clearance and warning lights in place, not broken & proper color
- Windshield is clean, not cracked or broken
- Windshield wipers are in good condition and working properly
- Hood is not damaged or broken, in good condition and working properly
- Headlights must be clear, in place and not broken
- Turn Signals (Left, Right, & 4 Ways) in place and not broken, color must be amber and working properly. (Will check later)

> OPEN HOOD NOW

Engine Area

- Coolant level in reservoir is between Hot & Cold marks
- Oil Level- To check: Pull dip stick out, wipe and return. Level between Add & Full
- Power Steering Reservoir is between Add & Full
- Power Steering Pump is GEAR DRIVEN; mounted on the left side of motor.
 - o Provides assistance to steer vehicle through steering linkage
- All steering linkage properly mounted and secure
- Air Compressor is GEAR DRIVEN and mounted on left side of motor
 - o Provides and maintains AIR in the AIR BRAKE SYSTEM
- Water Pump is BELT DRIVEN and mounted on right front of motor
 - Pumps water to engine for proper cooling
- Alternator is BELT DRIVEN mounted on right side of motor
 - o Provides electric power to vehicle
 - Belt has less than ¾ inch play
- Hoses appear to be properly mounted and secure with no leaks

Front Suspension

- Shocks are properly mounted and secure; not leaking
- Springs are not broken or missing
 - Reduce wheel and road vibration to improve vehicle control
- Spring Mounts are properly mounted and secure
- U-Bolts appear to be tight and not broken

Front Brake

- Brake hoses or lines are not frayed or broken
 - Carries air to wheel brake assembly
- Brake Chamber is properly mounted and secure, not broken
 - Converts air pressure to mechanical force to operate wheel brakes



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- CDL Study Guide
- Slack Adjuster & Push Rod properly mounted and secure
 - o Provides means for proper brake adjustment
 - 1-inch free travel when released
- Drums & Linings are not cracked, missing, or broken
 - Linings (¼ inch minimum thickness) rubs the inside of drum to slow vehicle
 - IF DUST COVER IN PLACE, CANNOT OBSERVE THICKNESS OF LININGS PROPERLY

Front Wheel

- Tires are INFLATED to 100 PSI, TREAD DEPTH is 4/32 minimum for steering, Tire in GOOD CONDITION
- RIMS are not cracked or broken; no non-factory welds
- Lug nuts are tight, no apparent rust trails or shiny threads
- Hub oil cap and seal are not leaking and oil level is good
 - Contains oil for axel/wheel assembly lubrication

> CLOSE HOOD NOW

SIDE & REAR

Side Area (Right)

- Door & Mirror are properly mounted and secure; door operates properly
- DEF Tank, check for leaks and cap is tight and secure
- All lights & reflectors are in place, not broken and proper color
- Fuel tank, check for leaks and cap is tight and secure
- Mud flap, properly mounted and secure

Under Vehicle

- Drive Shaft is in place and secure
 - Transmits power from transmission to drive axel
- Exhaust System is properly mounted and secure
 - Piping to remove exhaust gases from the engine
- Frame is not broken, cracked, or bent
 - Structural member to support vehicle

Rear Suspension

- Springs, Air Bags, & Shocks are properly mounted and secure
 - o Reduce wheel and road vibration to improve vehicle control
- U-Bolts are in place and secure





Rear Brakes

- Brake hoses or lines are not frayed or broken
 - Carries air to wheel brake assembly
- Brake Chamber is properly mounted and secure; not broken
 - Converts air pressure to mechanical force to operate wheel brakes
- Slack Adjuster & Push Rod are properly mounted and secure
 - Provides means for proper brake adjustment
 - 1-inch free travel when released
- Drums and Linings are not cracked, broken, or missing
 - Linings are ¼ inch minimum thickness; they rub inside of drum to slow vehicle
 - IF DUST COVER IS IN PLACE, CANNOT OBSERVE THICKNESS OF LININGS PROPERLY

Rear Axle

- Tires are INFLATED to 100 psi, TREAD DEPTH is 2/32 (rear) or 4/32 (front) minimum, in GOOD CONDITION
- Rims are not cracked or broken; no non-factory welds
- Lug Nuts are tight; no apparent rust trails or shiny threads
- Axle Seal is not leaking and bolts are tight
 - Contains oil for axle /wheel assemble lubrication
- Spacers or budd wheel spacing is proper

Rear of Vehicle

- Door hinges are secure
- Warning lights, Clearance lights, Tail Lights, Brake Lights, Blinkers (L&R), Emergency Flashers and Reflective Tape are not broken. (Will check later)

Side Area (Left)

Same as RIGHT side of vehicle except for electrical box, battery box, a/c electrical box, and stop arms

- Stop Arms are properly mounted and secure. Say: <u>"I will check the stop arms during my lights test."</u>
- Electrical box runs on circuit breakers and we do not have to carry spare fuses
- Battery Box check for corrosion or broken wires. Checking for anything that should not be there
- A/C Electrical Box check the wires for good connection and for anything that should not be there



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CDL Study Guide

Entering the Bus-Inside safety check

- Steps not broken or blocked
- Handrails are properly mounted and secured
- Student Mirror is properly mounted and secure; not broken
- Body Fluid Kit
- First Aid Kit
- Fire Extinguisher has been serviced and charged. Service Date: _____
- 3 Reflective triangles
- Driver Seat Belt does not have any frays. It is properly mounted and secure
- Continue to do the inside safety check
- Say: "I will show that my switches and gauges work after I complete my inside safety check."

> TURN KEY TO ACCESSORY

- Seating is properly mounted and secure (MUST shake each seat at bottom)
- Rear door- open to make sure buzzer sounds
- Seating is properly mounted and secure (MUST pull on back of seats as you walk to front of the bus)
- Emergency Exit- 2 ROOF Emergency Exits and 4 WINDOW emergency exits (MUST OPEN 1)

SAFE START

Say: "I AM GOING TO CONDUCT A SAFE START."

PUT SEATBELT ON

- 1. Turn bus on
- 2. Wait for all lights to go out
- 3. Start bus
- 4. Turn on headlights (Always drive with them on)
- Temperature Gauge is operating properly; cannot go over 210 degrees
 - Measures water temperature in engine cooling system
- Oil Pressure Gauge is operating properly; 20 degrees start up, 50-60 highway
 - Indicates that engine oil pressure is adequate
- Voltmeter is operating properly. Charging reads 12-15 volts
 - o Indicates that the alternator is working properly
- Lighting Indicators are working properly
 - 1. Activate Master Switch and open door (red lights will activate)
 - 2. Left & Right turn signal
 - 3. 4-way Flashers
 - 4. High & Low Beams
- Tester will walk to rear of vehicle:
 - 5. Activate Master Switch and open door (red lights will activate)





- 6. Left & Right Turn Signal
- 7. 4-way Flashers
- 8. Apply Brake
- 9. Put vehicle in Reverse
- > Recycle Bus- turn loading lights off! Walk to rear of bus and PUSH CHILD LOCK, return to seat. Once tester is back on the bus, Restart the Bus
 - Horn is operating properly
 - Heater and defroster are working properly
 - Noise Kill switch for Rail Road Crossing
 - Windshield is clean and has no damage
 - Mirrors are adjusted correctly for me
 - Wipers & Washers are operating properly
- > Say: I will conduct an Air Brake Test (without being told)





Air Brake Test

(Must Verbalize highlighted areas)

- 1. Say: "I'm going to place the wheel chocks" with key in your hand
- 2. Return to Seat; put seatbelt on and start bus
- 3. Say: "Running vehicle to achieve full air pressure of 120 psi."
- 4. Turn off bus and back to Accessory
- 5. Push in the parking brake applying even pressure
 - a. Push down on brake and hold for ONE (1) MINUTE; say <u>"Cannot lose"</u> more than three (3) psi in one (1) minute
- 6. Fan brake (push up & Down quickly)
 - a. While fanning brakes say: "Waiting for low air warning device to activate at approximately 60 psi."
- 7. Continue to fan brake waiting for park brake to engage at approximately 10-30 psi
- 8. After parking brake engages, turn on bus and say, <u>"Running bus to achieve full operating pressure of 120 psi."</u>
- 9. Turn off bus, TAKE KEY OUT, and remove wheel chocks
- 10. Start engine and build air pressure to 120 psi

Parking Brake Test

- With parking brake set say <u>"Shifting bus to drive, accelerate to 1000 RPMs,</u> the bus should not move.
- Say: <u>"Shifting bus to reverse, accelerate to 1000 RPMs, the bus should not move."</u>

Service Brake Test

1. Release parking brake and say: <u>"Shifting bus to drive and move forward (3-5 mph) and apply brakes; the steering wheel should not pull to the left or right.</u>