Vehicle School Bus Inspection – GLOSSARY in order of appearance

**LEAKS**: No puddles or dripping fluids on the ground from the engine or transmission.

**COOLANT**: using the sight glass, it is at an adequate level.

**LIGHTS AND REFLECTORS**: FRONT, SIDE, AND BACK ITEMS

**left /right signal lights** - clean; not damaged; proper color; 4-way Flashers.

**headlights** - clean; not damaged; proper color; high and low beams.

**clearance lights** - clean; not damaged; proper color; not missing. (red on back, amber elsewhere).

**reflective tape** - present and affixed securely.

**reflectors** – clean; not damaged; proper color (red on back, amber elsewhere).

**brake light** – clean; not damaged; proper color.

**tail lights** – clean; not damaged; proper color.

**OIL**: check with dipstick; in safe operating range; above refill mark.

**POWER** **STEERING**: belt driven; secure; not leaking; check with dipstick; above refill mark. (see belts).

**WATER** **PUMP**: belt driven; securely mounted; not loose. (see belts).

**ALTERNATOR**: belt driven; securely mounted; wires securely fastened. (see belts).

**BELTS** – no cracks; fray; loose fibers; signs of wear; has between ½” to ¾” play at the center.

**AIR** **COMPRESSOR**: gear driven; properly mounted; not leaking.

**HOSES**: good condition; not leaking.

**STEERING** **BOX**; securely mounted; not leaking; no missing nuts or bolts; hoses not damaged or leaking.

**STEERING links, arms & rods** not worn or cracked; joints and sockets not loose or worn; no missing nuts, bolts, or cotter keys.

**AXLE** – FRONT AND BACK

 **TIRES**: **tread** - wearing evenly; tread depth not less than 4/32” in front | 2/32” in back.

 **sidewalls** - no cuts or other damage to treads or sidewalls.

 **valve stem & cap** – secure; not missing; damaged; leaking; check for proper inflation with gauge.

 **BUDD** **SPACING** (Rear Only): no foreign objects.

 **RIMS**: not bent; damaged; no illegal welds; no rust trails.

 **LUG** **NUTS**: not missing or loose; no cracks, distortions, rust or shine.

 **HUB** **OIL** **SEAL**: not leaking; if there is a sight glass oil level is adequate.

 **Leaf Springs**: not missing; cracked; broken; shifted.

 **Shock absorbers**: secure; not leaking.

 **SPRING** **Mounts & Hangers**: secure; not cracked; broken; bushings & bolts are not missing or damaged.

If equipped, torque arm, torsion bars & other types of suspension- securely mounted, not damaged. rear axle may have air bags – not damaged or leaking.

 **U-BOLTS**: not missing; broken; loose.

 **Brake Hoses and Lines**: not cracked; worn; frayed; couplings/fitting secure; not leaking.

 **BRAKE CHAMBER**: mounted securely; not cracked; dented; leaking; clamps not loose or missing.

 **SLACK ADJUSTER** **and PUSH ROD**: securely mounted; not loose; bent; broken; no missing parts; no more than 1” travel when pulled by hand with brakes released.

 **BRAKE DRUM**: Not cracked; dented; have holes; the bolts are not loose or missing.

 **BRAKE LININGS**: not worn dangerously thin; no contaminants such as oil or grease.

**SERVICE DOOR AND HINGES**: not damaged; operates smoothly; closes securely. hinges are secure; seals intact.

**Windows**: clean; not damaged

**MIRRORS**: securely mounted; no loose fittings; not damaged; clean.

**FUEL TANK/CAP**: secure; cap is tight; not leaking.

**DRIVE SHAFT**: not bent; twisted; cracked; U-Joints are secure; free of foreign objects.

**EXHAUST SYSTEM**: tightly connected; securely mounted; no loose clamps; no damage; no signs of leaking such as rust or soot; no cracks; holes; no severe dents.

**DEF Tank**: no less than 1/8 tank.

**Longitudinal Frame Members**: not cracked; no broken welds; holes; other damage.

**Cross Members**: not loose; cracked; bent; broken; missing.

**Box and Bus Floor**: no breaks or holes.

**REAR AXLE** (SEE AXLE)

**SPLASH GUARDS**: securely mounted; not damaged.

**REAR DOOR AND HINGES**: not damaged; opens and closes easily; latches properly.

**STROBE LIGHT**: not damaged and operational.

**alternating ambers** : not damaged and operational.

**alternating Reds**: not damaged and operational.

**BAGGAGE COMPARTMENT** Doors and hinges: securely mounted; not damaged; opens/closes easily.

**STOP ARM**: secure to frame; no loose fittings; damage; extends fully; lights operational.

**STUDENT ARM**: secure; functions in conjunction with the stop arm.

**step light**: working.

**steps and treads**: not loose or worn excessively.

**hand rails**: secure.

**Emergency kit** and the **Body Fluid kit**: present.

**Seats**: Frames not broken or loose; cushions secure.

**Emergency exits**: 7 emergency exits; demonstrate one exit that it opens and closes securely from inside and outside and that the warning device works properly. Explain how the other emergency exits function.

**SEAT/SAFETY BELT**: Securely mounted; not ripped; frayed; latches; properly adjusted.

**STUDENT MIRROR**: secure; clean; properly adjusted

**OPERATIONS (FRONT and REAR)**: Alt Amber, Alt Red, Stop Sign Lights, Stop Sign & Student Arm work in conjunction, Left, Right, 4-way, Tail Lights, Brake Lights, Clearance Lights, Tail Lights, Brake Lights.

**ABS Light**: turns on and goes off when key turned.

**Emergency equipment:** identify Triangles, Spare Fuses, and Fire Extinguisher which is secure and fully charged.

**AIR GUAGE**: working properly and building to appropriate pressure.

**TEMPERATURE GUAGE**: working; shows temperature rising to normal operating range.

**OIL PRESSURE GUAGE**; working and shows pressure is rising.

**AMMETER/VOLTMETER**: charging.

**LIGHTING INDICATORS** – Left Turn, Right Turn, 4-Way Flasher, High Beam, DEF Tank indicates above 1/8 tank.

**HORNS**: City and Air Horns sound appropriately.

**HEATER/DEFROSTER**: work when turned on.

**WINDSHIELD**: clean; no illegal stickers; no obstructions; damage.

**MIRRORS**: not dirty; adjusted properly.

**WIPERS** arms and blades: not damaged and operate smoothly.

**Windshield Washer** : operating correctly.

**Parking brake**: in gear and holds when engine revved.

**SERVICE BRAKE**: stops bus smoothly and doesn’t pull to left or right.

**BRAKE TESTS:** BUS ON-air gauge between 120-140 PSI at spec and gov. cut off. BUS OFF-not leaking more than 3 PSI in 1 minute, approximately 55 PSI warning devices come on, and parking brake re-engages between 40 and 20 PSI.