### 2017 Florida School Bus Safety Inspection Manual Revised Pages

# Inspection Manuals that do not have a revision date of "05/17" printed on the front cover just below the effective date of 03/22/2017 must have the following pages replaced.

P.0) Cover Page revision date added

P.5) revised language "or is" to "that" in OOS 2<sup>nd</sup> paragraph

P.51) A.16.c. Emergency exit instructions label language revised

P.54) Removed language that referred to repair column language about fogging that was deleted.

P.68) B.1.b. side-mounted turn signal language revised

P.80) B.5.d. delete comma

P. 100) C.3.g. add DEF to "Fluid Levels and Condition" section

P. 109) C.8.c. replaced the letter "d" with the letter "c"

P. 132) D.5.e. add DEF to "Fluid Leaks" section

P. 146) D. 10. d. delete slack adjuster repair criteria

P.173-174 Inspection form lines C.7 and C.8 moved from second page to first page.

P. 175-176 Inspection form example was missing tire information and signatures

P. 178) Corrected the year on the repair-order example form.

P. 179 Two-year curriculum requirement language revised for Vo-Tech Certificate since the average automotive mechanic certificate programs are less than 15 months.

P. 187 Two-year curriculum requirement language revised for Vo-Tech Certificate since the average automotive mechanic certificate programs are less than 15 months.

P. 189-191 Table of Changes updated to reflect all changes from 2008 to 2017.

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# STATE OF FLORIDA SCHOOL BUS SAFETY INSPECTION MANUAL

2017 Edition Effective 3/22/2017 Revised 05/17

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A. INSIDE BUS 1. Emergency Equipment

	Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
<b>d. R</b> 1	<ul> <li>Check for proper quantity, type and condition of emergency roadside reflectors.</li> </ul>		Not equipped with three self-standing, 17-inch triangular reflectors or any of the reflectors, or box is unusable due to age, damage or deterioration.
2	) Check accessibility, mounting and condition of box. Must be securely mounted in driver's area.		Storage box is broken, will not remain latched, is not easily accessible, is not securely mounted forward of the passenger compartment, or mounted in a lockable compartment that is not equipped with an operational ignition warning buzzer or inter- lock.
3	) Check for the presence of a breakable, non-reusable tamper seal for buses manufactured since September 1995.	Tamper seal is broken, missing or reusable (can be opened and resealed without destroying the seal).	Tamper seal cannot be broken.

A. INSIDE BUS2. Registration and Insurance Card

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
a. Registration		
Check for a valid Florida registration certificate.		Registration certificate is expired, missing or illegible.
b. Insurance Card		
Check for a valid insurance card.		Insurance card is invalid, missing or illegible.

### A. INSIDE BUS 16. Emergency Doors, Windows, Hatches and Passenger Check System

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
b. Buzzers		
Check emergency exit door(s) and window warning buzzers.		Buzzer warning system for emergency door (or rear window on RE buses) or any exit window does not function, gives false alarms or is not audible in the driver's compartment.
		Buzzer operation is intermittent.
c. Labeling and Pad		
<ol> <li>Inspect for identification labels and operating instruction labels, for emergency doors, windows, roof hatches and hold-open device (if required).</li> </ol>		All emergency exits are not clearly labeled "Emergency Door" or "Emergency Exit" on the inside and outside of the bus. The operating instruction labels for any
		emergency door (or rear window on RE buses), or roof hatch are not present on the inside of the bus (or outside, if required by applicable specifications).
		The operating instruction label for the emergency door hold-open device is not visible from both the inside and outside of the bus (if required).
2) Inspect emergency door header pad.	Door pad is ripped or loose.	Door pad is missing or has a protruding edge.
	(Continued on Next Page)	

A. INSIDE BUS 16. Emergency Doors, Windows, Hatches and Passenger Check System

	Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
d.	Post-Trip Passenger Check System (if applicable)		
	Check for proper operation of post-trip passenger check system (required on buses manufactured since 2005).	Post-trip passenger check system is inoperative or does not operate according to specifications.	Buses built since 2005 are not equipped with a post-trip passenger check system.

### A. INSIDE BUS

- 17. Windshield, Side and Rear Windows

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
Inspection Procedures: a. Glass Cracks Inspect windshield and all windows for cracks and other damage. Note: Windshield must be laminated safety glass. All other windows can be made from laminated or tempered safety glass.	Repair (or note) if:	Out-of-Service if: Windshield has any cracks, chips or damage that obstructs the driver's view. Any windshield or other laminated safety glass window is cracked greater than two inches in length or any laminated glass crack or splinter creates a sharp surface that could cause injury when touched. Any tempered safety glass is cracked. Any window rearward of the windshield is not laminated, tempered or equivalent safety glass. Any glass is missing.
	(Continued on Next Page)	

### A. INSIDE BUS

- 17. Windshield, Side and Rear Windows

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
b. Fogging, Tinting and Visibility		
Check windshield and windows for fogging, reduced visibility or improper level of tinting.		Any glass is fogged more than two inches in from any outer edge.
		Any windshield or window fogging or clouding results in reduced visibility of a mirror.
		Any tinting on the windshield or windows to either side of the driver in the driver's compartment (including service door) is not 70 percent light transmitting or clearer.
		Any tinted windows behind the driver's compartment are not 28 percent light transmitting or clearer.
		Visibility is reduced for any reason.
	(Continued on Next Page)	

### B. OUTSIDE BUS

1. Headlights, Turn Signals, Hazard, Brake, Tail, Backup Lights, Backup Alarm and Park Lights

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
NOTE: When checking LED lights, If 75 percent or more of the LED elements illuminate, the light is considered good. If less than 75 percent of the LED elements illuminate, the light must be replaced.		Less than 75 percent of the LED elements illuminate.
a. Headlights		
Check both headlights for brightness, operation, condition and visible misaiming. Check high-beam indicator operation and headlight switch	Left and right headlights are of different types (conventional, halogen or LED).	Either headlight fails to function on low and high beam, any lens or sealed beam is fogged or cracked, or light is dim.
nouding n ownon.		High beam indicator is inoperative.
		Dimmer switch sticks, is hard to operate or fails to function.
		Headlight switch is damaged or not securely mounted, or the knob is missing.
		Headlight operation is intermittent.
		Upon visible inspection, there is any obvious misaiming of headlights.
Check Daytime Running Lamps (DRL) (if equipped) for proper operation.	DRL system does not work according to specifications.	
	(Continued on Next Page)	

### B. OUTSIDE BUS

1. Headlights, Turn Signals, Hazard, Brake, Tail, Backup Lights, Backup Alarm and Park Lights

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
b. Turn Signals		
Check turn signals for operation, condition and specifications (see charts 6 and 7 on pages 83 and 84).	Any turn signal lens is cracked.	<ul> <li>Any turn signal fails to function, does not flash or is dim.</li> <li>Turn signals do not flash 60 to 120 times per minute.</li> <li>Any required side-mounted turn signal(s) are not present per applicable Florida School Bus Specifications.</li> <li>Any turn signal is not amber in color.</li> <li>Any turn signal lens is damaged, darkened, faded or dirty, affecting visibility or color of the light, or white light is visible.</li> <li>Turn signal switch does not function properly, will not maintain selected position, or does not cancel and return to neutral position.</li> <li>Turn signal dash indicators fail to function or do not properly indicate position of turn signal switch and operation of signal.</li> </ul>
	(Continued on Next Page)	

B. OUTSIDE BUS5. General Condition of Bus Exterior

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
a. Mirrors		
Check all exterior mirrors, mounts and brackets for tightness and condition.		Mirror mounts or bracket(s) are bent, broken, not secure, or have loose or missing fasteners.
b. Bumpers		Any exterior mirror is broken, cracked or loose in the frame, or reflective surface is faded or deteriorated.
Check bumpers for mounting, condition, color and body seal on rear bumper.	Bumper is not black.	Bumper is significantly bent or has protruding metal.
	Bumper is equipped with any unauthorized stickers or decals.	Bumper, mounts or braces are bent, broken, not secure, or have loose or missing fasteners.
		Diagonal reflective striping (if equipped) is missing, significantly damaged or not reflective.
		Front bumper on buses built since October 1982 permanently deforms or is not of sufficient strength to allow the front of the bus to be lifted without permanent deformation.
	(Continued on Next Page)	Rear bumper to body seal is damaged or missing.

B. OUTSIDE BUS5. General Condition of Bus Exterior

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
c. Body Damage		
Check body exterior for damage, scratches, dents, etc.	Body has small dents, scratches, etc.	Any body part is damaged or dislocated, creating a protrusion or sharp edge.
	Body has small rust spots or water leaks.	Body panels, rivets or other components are damaged or corroded so that joint strength or body structural integrity is compromised.
d. Paint		
Check paint on body, trim and wheels for required coloration and condition.	Paint is faded, discolored or damaged.	Paint is not National School Bus Yellow (except white roof). Trim, rub rails, warning light hoods or background are not black. Stud- piloted disk wheels and spoke hub- mounted wheels are not black, or hub-piloted wheels are not National School Bus Yellow.
e. Reflective Markings (if equipped)		
Check reflective markings for coloration, reflectivity and condition. Reflective markings required since September 1995.	Reflective markings other than those around any emergency exit as required by FMVSS No. 217 are faded, discolored, damaged or peeling.	Any required reflective markings are missing, significantly faded or discolored around any emergency exit door, window or roof hatch.
Check for presence of reflective markings around any emergency exit door, window or roof hatch as required by FMVSS No. 217 (buses purchased after November 1993).	(Continued on Next Page)	

## C. ENGINE COMPARTMENT 3. Fluid Levels and Condition

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
d. Transmission Fluid		
Check transmission fluid level and condition.	Transmission fluid level is below the "full" mark.	Dipstick is missing, broken or the incorrect type.
	Transmission fluid shows need of servicing (discoloration or smell).	Transmission fluid is below the "add" mark or above the "full" mark.
		Transmission fluid shows evidence of excessive dirt, metal or coolant contamination.
e. Windshield Washer Fluid		
Check windshield washer fluid level.	Reservoir level is low or cap is missing.	Reservoir is empty.
	(Continued on Next Page)	
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## C. ENGINE COMPARTMENT 3. Fluid Levels and Condition

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
<ul> <li>f. Coolant</li> <li>Check engine coolant level, condition and freeze protection.</li> </ul>	Coolant level is below the "full" mark.	Coolant level is below the "add" mark or cannot be seen in the reservoir or radiator with cap removed.
Note: Follow manufacturer's recommendations for checking coolant condition, PH and additive package. Note: Use caution when opening a hot cooling system.	<ul> <li>Coolant shows evidence of excessive oil, dirt contamination, or rust and corrosion.</li> <li>Coolant freeze protection is minus 20 degrees Fahrenheit or lower (see chart 11, page 101).</li> <li>Coolant pH level is too high or too low, or coolant additive package has depleted to an unacceptable level.</li> </ul>	
g. DEF		
Check DEF fluid level.	Reservoir level is low.	Reservoir is empty or cap is missing.

### C. ENGINE COMPARTMENT 8. Radiator

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:				
a. Radiator and Reservoir						
Check radiator and reservoir assemblies for mounting, securement and condition.	Any portion of the radiator, reservoir or mounting system is cracked or damaged, or has loose or missing fasteners not causing	Any portion of the radiator, reservoir or mounting system is cracked, damaged or has loose or missing fasteners, causing leaks or				
b. Cap	leaks of failure.					
Check condition of radiator cap and perform pressure test.	Radiator cap is hard to open or close.	Radiator cap is missing.				
WARNING: ALWAYS USE PROPER PROCEDURES WHEN REMOVING A RADIATOR CAP.	Radiator cap leaks down slowly at rated pressure.	Radiator cap is the incorrect type or pressure rating, or fails pressure test.				
c. Fan Shroud						
Check fan shroud for mounting and condition.		Fan shroud is missing, loose or has excessive damage that may interfere with the cooling fan.				

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### D. UNDERNEATH BUS 5. Fluid Leaks

Note: Leaks and Seepage are types of fluid loss defined as:

Leak: Enough fluid loss to cause dripping fluid. Leaking fluid can also be slung from rotating assemblies. Seepage: Fluid loss that may cause dampness or staining, but not dripping or slung fluid.

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:			
a. Oil					
Inspect for engine oil leaks at all locations and determine severity.	Engine oil is seeping or slightly leaking onto any location except exhaust system.	Engine oil leakage is excessive.			
	Engine oil leakage is causing deterioration of any rubber parts, such as steering linkage boots, hoses, etc.	Engine oil is dripping, slinging or being blown on to any portion of exhaust system.			
	There is a drip shield installed to divert leaking oil from the exhaust system.				
b. Coolant					
Inspect all locations for coolant leaks.	There is coolant seeping at radiator, hoses, engine oil cooler, thermostat housing, head gaskets, freeze plugs, reservoir, water pump or other locations.	Coolant leakage is excessive.			
	(Continued on Next Page)				

### D. UNDERNEATH BUS 5. Fluid Leaks

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:			
c. Transmission					
Inspect for transmission fluid leaks at all locations and determine severity.	Transmission fluid is seeping or slightly leaking on to any location <u>except</u> exhaust system.	Transmission fluid leakage is excessive.			
Note: See page 131 for definitions of fluid "leaks" and "seepage."	Transmission fluid is causing deterioration of any rubber parts, such as steering linkage boots, hoses, etc.	Transmission fluid is dripping on any portion of exhaust system.			
d. Power Steering					
Inspect for power steering fluid leaks at all	Power steering fluid is seeping.	Power steering fluid is leaking.			
locations and determine seventy.	Power steering fluid is causing deterioration of any rubber parts, such as steering linkage boots, hoses, etc.	Power steering reservoir cap or dipstick is missing.			
e. DEF					
Inspect for DEF fluid leaks at all locations and determine severity.	DEF fluid is seeping.	DEF fluid is leaking.			

## D. UNDERNEATH BUS

10. Rear Brakes

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:
<ul> <li>a. Hoses</li> <li>Inspect rear brake flexible hoses for condition, securement and routing.</li> <li>Note: See page 131 for definitions of fluid "leaks" and "seepage."</li> </ul>		Any rear brake flex hose or connection is seeping, leaking fluid or leaking air pressure. Any rear brake flex hose is kinked, collapsed, bulging, has damaged plies or is damaged below outer covering.
		Any rear brake flex hose supporting brackets are damaged or have loose fasteners. Any rear brake flex hose is rubbing on or routed against other components.
b. Lines		
Inspect air and hydraulic brake lines for routing, securement and condition.	Brake line bracket(s) or securement system is loose or missing.	Any brake line is bent, crimped or damaged, restricting air pressure or hydraulic fluid.
Note: See page 131 for definitions of fluid "leaks" and "seepage."		<ul><li>Any brake line or connection is seeping or leaking hydraulic fluid or leaking air pressure.</li><li>Any brake line is rubbing on other components or is abraded.</li><li>Any brake line is not of OEM material, size or type.</li></ul>
	(Continued on Next Page)	

## D. UNDERNEATH BUS

10. Rear Brakes

Inspection Procedures:	Repair (or note) if:	Out-of-Service if:			
c. Chambers					
Inspect rear brake chamber assemblies for securement, condition and proper size.		<ul><li>Any rear chamber-mounting bracket or hardware is cracked, bent, broken or missing.</li><li>Any rear brake chamber or mounting fastener is damaged, loose, missing or of the wrong type.</li><li>Either rear chamber is not OEM size and stroke length.</li></ul>			
d. Slacks					
Inspect slack adjusters and S-cam assemblies for wear, condition, operation and securement.		Any portion of slack adjuster or S-cam is missing, broken, cracked, worn beyond limits or improperly installed.			
Note: See section D.10.k, page 152-153, on brake adjustment for procedure to check operation of ASA.		S-cam shaft and/or S-cam bushing total wear (up and down) is greater than 0.040 inch (see figure 14, page 125).			
		S-cam In-and-Out endplay is more than 0.060 inch (see figure 14, page 125).			
		S-cam snap ring is missing.			
	(Continued on Next Page)	Slack adjuster has frozen or stripped worm gear or ratchet assembly.			

### FLORIDA SCHOOL BUS SAFETY INSPECTION FORM

Status Codes	T LOIN			Or Wi
✓ = item is OK				District School Board
X = item needs				
repair or as noted	Bus#	Mileage	<u>RO#</u>	Date
O = out of service			O a ma a itu	
<u>N/A = Not</u>	Chassis/Body_		Capacity	Wodel Year
Applicable	Shop Location			

Status Code	INSPECTION ITEMS	COMMENTS Tech. (Note Specific Deficiencies) Initials				
A. INSID	EBUS					
	<ol> <li>Emergency Equipment - Fire Ext. (pressure/tag/mount), First Aid Kit, Body Fluid Cleanup Kit and Reflectors</li> </ol>					
	2. Registration and Insurance Card					
	3. Neutral Safety Switch, Shifter and Noise Abatement Switch					
	4. Engine Controls - Key Switch, Accelerator and Engine Shutdown					
	<ol> <li>Gauges, Indicators, Dash and Switch Panel Lights, Engine Warning Lights/ Buzzers and ABS Warning Light</li> </ol>					
	<ol> <li>Air Brake System - Gauge(s), Build-Up, Governor, Park Brake, Adjustment, Air Leaks, Low Air Warning, PP-1 Pop-Off and Pedal</li> </ol>					
	<ol> <li>Hydraulic Brakes - Warning Light, Gauge, Pedal Travel and Fade, Power Assist and Park Brake</li> </ol>					
	8. Windshield Wipers and Washers - Operation, Park and Blades					
	9. Heaters, Defrosters, Auxiliary Dash or Header Fan(s)					
	10. Dome and Step Well Lights					
	11. Service Door - Operation, Control and Overhead Pad					
	12. Horns					
	13. Mirror Adjustment and Condition - Rear vision, Cross-view, Side-view and Interior					
	14. Driver's Seat and Seat Belt					
	<ol> <li>Passenger Seats - Frames, Mounting, Pads, Cuts, Bottoms, Modesty Panels, Stanchions, Passenger Securement Devices and Webbing Cutter</li> </ol>					
	16. Emergency Doors, Windows, Hatches and Passenger Check System Operation, Buzzers, Labeling and Overhead Pad					
	17. Windshield, Side and Rear Windows - Cracks, Fogging, Latches and Visor					
	18. Wheelchair Lift, Door and Securement System - (if equipped)					
	19. Two-Way Radio Operation - (if equipped)					
	20. Interior Wiring, Cab Hoses and Fire Wall Seals					
	<ol> <li>General Condition of Bus Interior - Floor, Step well, Grab Rail(s), Paneling, Broom Mounting, Loose Objects Secured and Engine Cover</li> </ol>					
B. OUTS	SIDE BUS					
	<ol> <li>Headlights, Turn Signals, Hazard, Brake, Tail, Backup Lights, Backup Alarm and Park Lights</li> </ol>					
	2. Clearance, Side Marker, ID Lights, Reflectors and Strobe Light					
	3. Pupil Warning Lights					
	4. Stop Arm(s) and Student Crossing Arm - Wiring. Air or Vacuum Leak and Decal					
	<ol> <li>General Condition of Bus Exterior - Mirrors, Bumpers, Body Damage, Paint Reflective Marking, Lettering, Emergency Door, Engine Hood and Cleanliness</li> </ol>					
C. ENG	NE COMPARTMENT					
	1. Steering - Play, Column, Steering Gear Box Mounting, Pitman Arm, Drag Link, Steering Arm, Tie Rod & Ends and Idler Arm					
	2. Batteries - Hold Down, Terminals, Cables, Cleanliness, Slide Tray and Load Test					
	3. Fluid Levels and Condition - Brake, Power Steering,					
	Oil, Transmission, Windshield Washer, Coolant (Antifreeze°F) and DEF					
	4. Belts and All Hoses - Tightness, Condition, Routing and Belt Alignment					
	5. Accessory Mounting and Condition – Power Steering Pump, Air Compressor and Filter, Water Pump, Fan, Alternator and Air Cleaner (Restriction)(H <sub>2</sub> O)					
	6. Wiring - Routing and Condition					
	7. Fuel System and Lines					
	8. Radiator - Mounting, Cap, Reservoir and Fan Shroud					

Status Code	INSPECTION ITEMS			COMMENTS (Note Specific Defici	encies)	Tech. Initials
D. UND	ERNEATH BUS					
	<ol> <li>Front Suspension - I-Beam, U-Bolts, Springs, Spring I Bushings, Shocks, Kingpins, Wheel Bearings, Seals, A- Joints</li> </ol>	Mounts, Shackles, Pins -Frames, Bushings and	s and d Ball			
	<ol> <li>Front Brakes - Hoses, Lines, Chambers, Slack Adjuster Rotors and Wheel Cylinders or Calipers. Check and Ad Do Not Adjust ASA-Equipped Brakes. Disc Brakes</li> </ol>	ers, Push rods, Linings ljust MSA-Equipped Br	, Drums, akes.			
	3. Engine Mounts, Transmission Mounts and Starter M					
	4. Transmission - Bolts, Linkage, Lines, Filter and Cooler					
	5. Fluid Leaks - Oil, Coolant, Transmission, Power Steeri	ng and DEF				
	6. Fuel and DEF Tank - Leaks, Mounting, Hoses and Wir	ing				
	7. Brake Equipment – ABS, Lines, Valves, Reservoir Mo	unting and Bleed Rese	ervoirs			
	8. Driveline - Shafts, U-Joints, Yokes, Hanger Bearings, G	Guards Driveshaft and	Park brake			
	9. Rear Suspension - Axle Housing, Vent, Differential, Sp	orings, U-Bolts, Shocks	s, Spring			
-	Shackles, Pins and Bushings, Hangers, Seals and Whe 10. Rear Brakes - Hoses, Lines, Chambers, Slack Adjuste	eel Bearings rs. Push rods. Linings.	Drums.			
	Rotors and Wheel Cylinders or Calipers. Check and Ad Do Not Adjust ASA-Equipped Brakes. Disc Brakes	ljust MSA-Equipped Br	akes.			
	11.Body Securement and Structure - Hold Downs, Floor Skirts, Mud Flaps and Chassis Frame Rails	, Outriggers, Braces,				
	12. <b>Exhaust System -</b> Leaks, Mounting, Muffler, Tailpipe a	Ind DEF, DPF System				
	13.Wheels and Tires - Tread Depth, Pressure, Damage, N	Matching, Alignment				
E. LUBF						
	1. Change Oil and Replace Oil Filter(s)	Qts				
	2. Replace Fuel Filter(s) Primary/Secondary and Drain	Separator				
	3. Replace Transmission Filter(s)	Qts				
	4. Replace Air Compressor Filter (if applicable)					
	5. Replace Power Steering Filter	Pts.				
	6. Replace Engine Air Cleaner Filter					
	7. Replace Coolant Filter (if applicable)					
	8. Test Starting and Charging System Amp	os Volts _				
	9. Lubricate Chassis and Body	Lbs.				
	<ol> <li>Air Conditioning If equipped, perform A/C system prev according to manufacturer recommendations and district</li> </ol>	ventive maintenance				
F. ROAI	D TEST					
	1. Brake Performance - Park Brake, Stopping Distance a	and Equalization				
	2. Engine, Transmission and Driveline - Engine Perform	nance, Governor and S	Shifting			
	3. Steering and manding -Free Play, Power Assist, Colu	inin, Tracking and Turr	ing Radius	1		
Comme	ents: T	read Depth Air	Pressure	Tread Depth	Air Pı	ressure
				RRO /32		PSI
	RF	/32	PSI	RRI /32		PSI
	, <u>_</u>	/32	DCI	LKI /32		PSI
		152	1 31	210 752		1.51

NOTE: Follow the manufacturer's inspection and maintenance procedures for any equipment not noted on this form.

Inspector's Signature:

Inspector's Certification Number: \_\_\_\_\_

Service Manager or Delegate's Initials: \_\_\_\_\_

Bus Returned to Service Date:

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### FLORIDA SCHOOL BUS SAFETY INSPECTION FORM

Status (	tus Codes												
✓ = iter	n is OK			Suns	nine			District Sch	ool Board				
<u>X = item</u>	n needs												
<u>repair o</u>	r as noted	Bus#_04-1234_	Mileage 96,	000	<u>RO#</u>	Y43	219-R	Date	8/20/2016				
<u>0 = out</u>	of service				0	.,			0004				
<u>N/A = N</u>	<u>ot</u>	Chassis/Body	IC/Thomas/BB		_ Capac	city	//	Model Year	r <u>2004</u>				
<u>Applica</u>	<u>ble</u>	Shop Location	Busvi	lle									
Status			INSPECTION ITEMS				(	OMMENTS	Tech.				
	(Note Specific Deficiencies)												
A. INSID	1. Emergency Equipment - Fire Ext. (pressure/tag/mount), First Aid Kit,												
~	Body Fluid Cleanup Kit and Reflectors												
<b>√</b>	2. Registr	ation and Insurance	Card	t Cwitch									
✓ ✓	3. Neutral 4. Engine	Controls - Key Switch	n. Accelerator and Engine	e Shutdown									
1	5. Gauges	, Indicators & Dash a	and Switch Panel Lights	s, Engine Warn	ing								
	Lights/	Buzzers and ABS Wa	arning Light Build-Up, Covernor, Pa	urk Brako									
~	Adjustm	ent, Air Leaks, Low Ai	r Warning, PP-1 Pop-Off	and Pedal									
N/A	7. Hydrau	lic Brakes - Warning I	ight, Gauge, Pedal, Trav	vel &									
✓	Fade, P 8. Windsh	ield Wipers & Washe	Brake Ins - Operation, Park and	Blades									
· •	9. Heaters	, Defrosters, Auxiliar	v Dash or Header Fan(	s)									
· ✓	10. <b>Dome a</b>	nd Step Well Lights											
✓	11. Service	Door - Operation, Co	ntrol and Overhead Pad										
✓	12. Horn(s)												
✓	13. Mirror A	Adjustment and Conc	lition - Rear vision, Cros	s/Side-View and	Interior								
✓	14. Driver's	Seat and Seat Belt											
✓	15. Passen Panels,	ger Seats - Frames, N Stanchions, Passenge	Nounting, Pads, Cuts, Bo er Securement Devices a	ttoms, Modesty and Webbing Cu	ter								
~	16. Emerge Operation	ency Doors, Windows	s, Hatches and Passeng and Overbead Pad	ger Check Syste	em –								
~	17. Windsh	ield, Side and Rear V	Vindows -Cracks, Foggi	ng, Latches and	Visor								
N/A	18. Wheelc	hair Lift, Door and Se	ecurement System - (if e	equipped)									
N/A	19. <b>Two-W</b> a	ay Radio Operation -	(if equipped)										
✓	20. Interior	Wiring, Cab Hoses a	nd Fire Wall Seals										
~	21. <b>Genera</b> panelin	I Condition of Bus In g, trim, broom mountir	terior - (Including floor, s ng, loose objects secured	step well, grab ra I and engine cov	il(s), er								
B. OUTS	SIDE BUS												
~	1. Headligh	ts, Turn Signals, Haz Backup Alarm and Pa	ard, Brake, Tail, Backu	р									
х	2 Clearand	e Side Markers, ID L	ights, Reflectors and S	itrobe Light			LF Corner	Not Working	RM				
✓	3. Pupil Wa	rning Lights - (see ei	ght light warning system	chart)									
~	4. Stop Arn	n(s) and Student Cro	<b>ssing Arm -</b> Wiring, Air o	or Vacuum Leak	and Deca	d							
~	5. General Reflective	Condition of Bus Ext Marking, Lettering, E	erior - Mirrors, Bumpers mergency Door, Engine	, Body Damage, Hood and Clear	Paint, liness								
C. ENGI	NE COMPAR	TMENT							•				
✓	1. Steering	- Play, Column, Steer	ing Gear Box Mounting, I	Pitman Arm,									
✓	2. Batteries	- Hold Down, Termina	als, Cables, Cleanliness,	Slide Tray and	_oad								
✓	3. Fluid Lev	vels and Condition - I	Brake, Power Steering,	70	°E) and D								
x/o (	4. Belts in	d All Hoses - Tightnes	Condition, Routing an	d Belt Alignmen	<u>_ 1                                   </u>	/_1	X - Main Di	ive Belt Glazed	RM				
~	5. Accesso and Filter	ry Mounting and Cor , Water Pump. Fan. A	dition - P.S. Pump, Air ( ternator and Air Cleaner	Compressor (Restriction)	(	H₂O)			<u>,</u>				
~	6. Wiring -	Routing and Condition		,	(	2-1							
✓	7. Fuel Sy	stem and Lines											
✓	8. Radiato	<b>r -</b> Mounting, Cap, Re	servoir and Fan Shroud.										

Status Code	INSPECTION ITER	MS		COMMENTS (Note Specific Deficie	encies)	Tech Initials					
D. UND	ERNEATH BUS										
~	<ol> <li>Front Suspension - I-Beam, U-Bolts, Springs, Sp Bushings, Shocks, Kingpins, Wheel Bearings, Sea</li> </ol>	oring Mounts, Shackle als, A-Frames, Bushin	s, Pins & as: Ball Joints								
о	<ol> <li>Front Brakes - Hoses, Lines, Chambers, Slack A Drums, Rotors, Wheel Cylinders or Calipers, Chec Do Not Adjust ASA Equipped Brakes. Disc Brakes</li> </ol>	djusters, Push reds, L ck and Adjust MSA Ec	inings, Juipped Brakes.	Less than ¼ inch (Q-Plu	IS)	BS					
~	3. Engine Mounts, Transmission Mounts and Sta	rter Mounting									
~	4. Transmission - Bolts, Linkage, Lines, Filter and Cooler										
~	5. Fluid Leaks - Oil, Coolant, Transmission, Power S	Steering and DEF									
~	6. Fuel and DEF Tank - Leaks, Mounting, Hoses an	d Wiring									
х	7. Brake Equipment - ABS, Lines, Valves, Reservoi	ir Mounting and Bleed	Reservoirs	Bleed Tanks		BS					
~	<ol> <li>Driveline - Shafts, U-Joints, Yokes, Hanger Beari Brake</li> </ol>	ngs, Guards and Driv	eshaft Park								
~	<ol> <li>Rear Suspension - Axle Housing, Vent, Differenti Spring Shackles, Pins and Bushings, Hangers, W</li> </ol>	ial, Springs, U-Bolts, S	Shocks,								
~	<ol> <li>Rear Brakes - Hoses, Lines, Chambers, Slack Ac Drums, Rotors and Wheel Cylinders or Calipers - Brakes - Do Not Adjust ASA Equipped Brakes, Dis</li> </ol>	djusters, Push rods, Li Check and Adjust MS	nings, A Equipped								
~	11. Body Securement and Structure - Hold Downs, Skitte Mud Flags and Chassis Frame Boile	Floor, Outriggers, Bra	aces,								
~	12. <b>Exhaust System -</b> Leaks, Mounting, Muffler, Tail	pipe and DEF, DPF S	ystem								
0	13. Wheels and Tires Tread Depth Pressure, Dama	nent and	RF 1/32 inch, and Low A	Air	RM						
E. LUBR	RICATION & MAINTENANCE (OPTIONAL)				<u>I</u>						
х	1. Change Oil and Replace Oil Filter(s)	Qts	28			BS					
х	2. Replace Fuel Filter(s) Primary/Secondary and	Drain Separator				BS					
N/A	3. Replace Transmission Filter(s)	Qts									
N/A	4. Replace Air Compressor Filter (if applicable)										
N/A	5. Replace Power Steering Filter	Pts.									
N/A	6. Replace Engine Air Cleaner Filter										
N/A	7. Replace Coolant Filter (if applicable)										
х	8. Test Starting and Charging System	Amps 105 Volt	t <u>s 15.2</u>			BS					
х	9. Lubricate Chassis and Body	Lbs	1/2			RM					
х	10. Air Conditioning - Perform A/C System Preventiv (if equipped) according to district procedure	ve Maintenance				BS					
F. ROAD	) TEST										
~	1. Brake Performance - Park Brake, Stopping Distan	ice and Equalization									
✓	2. Engine, Transmission and Driveline - Engine Pe	rformance, Governor	and Shifting								
✓	3. Steering and Handling - Free Play, Power Assist, C	Column, Tracking and	Turning Radius								
Comme	nts: Needs rear brakes soon.	Tread Depth	Air Pressure	Tread Depth	Air Pr	essure					
Brake b	locks 5/16" thick.			RRO 6/32		100 PSI					
D.13. E	excessive front tire wear, check alignment	RF 1/32	50 PSI	RRI 6/32		100 PSI					
		IE 0/22		LRI 6/32		100 PSI					
		LF 0/32	90 - 31	LRU 0/32		100 831					

NOTE: Follow the manufacturer's inspection and maintenance procedures for any equipment not noted on this form.

Inspector's Signature:

Bill Smith

\_\_\_\_ Inspector's Certification Number: \_\_\_\_\_

.: 099-0039

Service Manager or Delegate's Initials:

СH

Bus Returned to Service Date: \_\_\_\_\_

08/21/2016

Form 2017-IF (effective March 2017)

## Repair Order

Vehic	le Number	Mile		Description of Vehicle							Repair Order	r#			
					Make		Year	Reg	].	Lift	A/C				
Date:					Organiz	Organization Name: Safety Inspect								tion	
Route/D	river:								_So	chool D	istrict	Inspected By	/:		
Repairs	Needed:				<u> </u>							Out-of-servic	e Date:		
												In Service Da	ate:		
Quantity Parts Est. Cos				Cost	Tech.					Repairs		<u>_</u>		Ti	me
					Init.									Hrs.	1/10
Quantity	Tiros and Battoric	ost Subtotal			Filtore	Miloago	Voc	No	Tup	o/Up Front/	Mhoole Oi	I Otal IVI	an-Hours	Voc	No
Quantity	Thes and Datterie	5			Fuel/Oil	Ivilleage	165	INU	Tur	ne-Un	WIIEEIS-OI	I	willeage	165	INU
					Air				Frt	Wheels					
					Coolant				Oil	Change					
					Trans					- 3-			1	<u> </u>	
		Total				1									

Vehicle Number Mileage					Description of Vehicle						Repair Orde	r #			
04	-1234	96,	000		Make <b>IC/Tho</b> r	nas/ BB	Year <b>2004</b>	Reg	). X	Lift	A/C x	Ŷ	(43219-I-F	R	
Date:	00/00	10040			Organization Name: Safety Inspec							ety Inspect	tion		
	08/20/	2016											S(X) NO	)()	
Roule/DI	Ver: 1 E / Dotty / D		-			Sunsn	ne Sci		JISIN	ICL		Inspected B	y: Dill Craith		
<b>D</b> · · ·		sus Driver				Bill Smit									
Repairs Needed: See inspection					n form o	dated 08/20/	2016					Out-of-servic	ce Date: )8/20/2016	6	
											In Service D (	ate: )8/21/2016	6		
Quantity	Part	IS	Est. C	Cost	Tech. Init.	Tech. Repairs Init.						T Hrs.	ime 1/10		
1	1157 Bulb			67	RM	Replaced Bu	lb							0	1
1	187439CI oi	l filter	8	50	RM	Replaced Filt	er							0	1
1	LF 3949 oil f	ilter	14	50	RM	Replaced Filt	er							0	1
1	1872526CI f	uel filter	7	82	RM	Replaced Filt	er							0	1
1	PH79 fuel fil	ter	5	32	RM	Replaced Filt	er							0	1
1	1875921CI f	uel filter	4	90	RM	Replaced Filt	er							0	1
14	Quarts of Oi		11	40	RM	Changed Oil								0	2
1/2	Pounds of g	rease	1	50	RM	Lubricated C	hassis							0	1
1.0	Labor, Mech (@12/hr.)	nanic	12	00	BS	Inspection Ac	djustme	nts an	d Re	pairs				1	0
1.3	Labor, Helpe	<b>Ər</b> (@8.5/hr.)	11	05	RM	Inspection Ac	djustme	nts an	d Re	pairs				0	1
1.0	Tire (see cos	st below)			RM	Change R/F	Tire							0	3
	Co	st Subtotal	77	66								Total M	lan-Hours	2	3
Quantity	Tires and Batteri	ies	-	-	Filters	Mileage	Yes	No	Tune	e/Up-Front/	Wheels-Oil		Mileage	Yes	No
1	11Rx22.5 ne	ew tire	197	00	Fuel/Oil	96,000	Х		Tun	ie-Up					Х
					Air	X Frt Wheels						Х			
					$H_20$	1 <sub>2</sub> 0 X Oil Change 96,000					Х				
					Trans	3				-					
Cost Total 274 66															

### School Bus Safety Inspection Certification Program

This program shall meet the requirements of rule 6A-3.0171, F.A.C. Technicians performing school bus inspections shall certify as School Bus Safety Inspectors. The certification shall be in effect until the end of the fifth fiscal year (June 30) from the certification date stated on the certificate. For example, a certificate issued on June 29, 2017, is valid through June 30, 2022. Certifications renewed during the fifth fiscal year, shall be in effect for an additional five fiscal years. The qualifications, training and testing requirements for certification are as follows:

### A. Level 1 Certified School Bus Safety Inspector

### 1) <u>Qualifications Requirements:</u>

- a) Candidates must document at least two years of journeyman-level mechanical experience in the repair and maintenance of motor vehicles in the areas of automotive, truck, heavy equipment or bus or successful course completion in vehicle maintenance and repair from an accredited school. The required mechanical experience is defined as "hands-on" or "wrench-turning" experience.
- b) Candidates must submit a State of Florida, School Bus Safety Inspector Application (form 2017-SI) to the inspector-trainer for the two-day class; to the district test administrator prior to the online test; and to the FDOE test administrator prior to the hands-on test.
- c) Candidates' current employers shall classify them as journeyman-level mechanics/technicians. This classification must be in the form of an official job description. In cases where candidates are working as journeyman-level mechanics/technicians without the proper classification, they may have their employer submit a letter to the School Transportation Management Section (STMS) of the FDOE requesting a waiver of the job description requirement. Acceptable job descriptions cannot contain language indicating candidate's primary responsibility is to perform mechanic's assistant or equivalent duties.
- 2) <u>Training Requirements:</u>
  - a) School bus safety inspector candidates shall attend a minimum two-day training program conducted by a certified school bus safety inspector-trainer.
  - b) Candidates should be thoroughly familiar with the current edition of the State of Florida School Bus Safety Inspection Manual prior to attending a training class.
  - c) Candidates shall train/practice performing school bus inspections on several school buses prior to hands-on testing, using the procedures and information learned in the training class.
- 3) <u>Testing Requirements:</u>
  - a) Testing consists of two parts, a 100-question online knowledge test and a hands-on application test.
  - b) FDOE-approved test administrators will conduct online testing.
  - c) The STMS will administer the hands-on testing in the field.
  - d) Candidates shall pass both tests to certify as a State of Florida School Bus Safety Inspector.

### 4) Written (online) Test:

- a) All written test questions correspond to material in the inspection manual.
- b) Candidates have 90 minutes to take the test.
- c) The minimum passing score is 80 percent.
- d) This test is an **open-book** test. Candidates may use the State of Florida School Bus Safety Inspection Manual during the 100-question online test.
- e) Prior to hands-on testing, a candidate should pass the online test.
- 5) <u>Hands-on Test</u>:
  - a) The FDOE will provide the time, date and location of each regionally scheduled handson testing class to school district transportation departments.
  - b) Candidates will be required to perform actual physical inspections of school buses and should dress accordingly. All needed equipment will be provided at the test site.
  - c) Candidates must bring a current State of Florida School Bus Safety Inspection Manual and a valid driver's license to the test site.
  - d) Candidates should use the information learned in their training class, the inspection manual and their professional knowledge while taking the hands-on inspection test.
  - e) Candidates have 90 minutes to take the test.
  - f) The test bus will have a minimum of nine specific and pre-determined deficiencies that the candidate must identify and properly describe on the inspection form. The specific deficiencies may be either existing or ones created by the test administrator.
  - g) Each of the nine deficiencies counts as 10 points.
  - A properly completed inspection form counts as 10 points. The candidate can make a maximum of three mistakes on the form. Examples of some common mistakes are:
     1) Odometer reading not recorded
    - 2) A blank in the Status Code column.
    - 3) Failure to clearly identify or describe any of the nine specific deficiencies
  - i) The minimum passing score is 90 percent.
  - j) The employer listed on the State of Florida School Bus Safety Inspector Application (form 2017-SI) will receive certification status of each candidate.

STATE OF FLORIDA, SCHOOL BUS SAFETY INSPECTOR APPLICATION (Please Type or Print)					
First Name	M.I.		Last Name		
Email Address					
Home Street Address, Apt. #	//	City Education	State Zip Education: (Check Highest Level achieved)		
Driver License Number (Last 6 Digits)	Birth Date	High S	High School or GEDTwo-year College		
The School District or Employer You Work For				our year conege	
(		IFICATION): CHECK C	NE		
	APPLICATION LEVEL - C	HECK ONE:			
1. INSPECTOR	2. TRAIN	IER	3. SUPERV	ISOR	
1. Employer (Current or most recent): 	City	State	Zij	 D	
Your Position or Job Title:					
Supervisor's Name:				·····	
Tel. #: ()	Employed From:	//	To:/	/	
2. Employer (Previous):					
Street Address	City	State	Zip		
Your Position or Job Title:					
Supervisor's Name:		Title:			
Tel. #: ()	Employed From:	//	_ To:/	/	
Note: If needed to der experience or V	monstrate compliance with require o-tech information on a separate p	nents, list additional em ece of paper and attach	ployers, mechanical it to this application.		

CERTIFICATION INFORMATION						
Name of Employer or School District						
	. Florida					
Work or Mailing Address City	Zip					
Supervisor's Name:	Title:					
Note: Send the completed application to Florida Department of Education, 834 Tallabassee Elorida 32399-0400. All signatures are required and the	School Transportation Management Section at 325 West Gaines Street, suite					
Applicant's Signature:	Date: / /					
· · · · · · · · · · · · · · · · · · ·						
The applicant me	ets all training requirements:					
Trainer's Signature: Tr	rainer's Cert. # Date://					
The applicant meets all appl	icable qualifications and requirements:					
I ransportation Director's Signature:	Date:11					
THIS SECTION FOR FDOE USE ONLY						
Inspector: Trainer: C	ertification Recertification					
Applicant denied certification due to:						
Insufficient Data Does Not Qualify Insufficient Experience	Classified Mechanic's Helper Training Not Received					
Written (online) Test Date://	PassedFailed					
* Retest Date: 1. / / I	Passed Failed					
* Retest Date: 2// I	PassedFailed					
Refest Date: 3//						
Hands-On Test Date:// F	PassedFailed					
* Retest Date: 1//	PassedFailed					
* Retest Date: 2/	PassedFailed					
* If Applicable						
Certified By:	Date//					
Name of FDOE Official						

### 2017 TABLE OF CHANGES (Changes to Manual from 2008 to 2017)

ITEMS	SECTIONS	PAGES
Table of contents repaginated	TOC	VI - VIII
Figures 1, 2 and 16 added; figures 6 and 7 revised	Chart and Figure Contents	171
State Board of Education rule language revised to include latest	Florida Statute and	
version of rule 6A-3.0171, F.A.C.	State Board Rule	172
Specifications Notes (revised)	Specifications Notes	II
Inspection Form instructions (revised)	Instructions	111
Inspection Form and Example Form (revised)	Inspection Form	173, 175
	School Bus Safety	
	Inspection Certification	
Certification expiration date changed from calendar to fiscal year	Program	179
Application now requires only the last six digits of driver's license		
number	Application	187
Criteria for emergency equipment tamper-proof seal revised	A. 1. a. b. c. d.	1, 2, 3, 4, 5
1969 to 1984 first aid kit contents chart deleted	A. 1	3
Note concerning annual inspection of first aid and body fluid	A. 1.	3
cleanup kits revised		•
Mounting criteria for body fluid kit added	A. 1. c.	4
Out-of-service criteria for reflectors storage box revised	A. 1. d. 3)	5
Criteria changed from "Insurance card is invalid or missing" (note),		
to "Insurance card is invalid, missing or is illegible" (out-of-	A.2.b.	6
service).		-
Noise abatement switch criteria revised	A. 3. d	8
Engine choke deleted	A. 4. b.	
Accelerator pedal and linkage revised	A. 4. b. 2)	10
Pull cable engine shutdown deleted	A. 4. d. 2)	
Gauges criteria revised and DEF level gauge added	A. 5. a.	11, 12
Out-of-service criteria for warning lights indicating mechanical	A. 5. c.	13
safety condition added		10
Pop-off changed to Park/Emergency brake pop-out	A. 6. h.	19
Service brake added to pedal and rubber cover pad	A. 6.I.	19
Brake system components not routed properly moved to Out-of-	A. 7. 6) a.	23, 26, 28,
Service and pedal rubber cover pad		30
windshield washer repair of hole and out-of-service chiena	A. 8. a.	33
"Eviseu "System is not producing heat" moved to out of convice		
"Any blower is extremely poisy indicating imminent failure or		
Any blower is extremely holsy indicating infinitent failure of	$\Lambda$ $\Omega$ $\Omega$ $\Lambda$ 10 h $R$ $\Lambda$ 10 c	34
creating an electrical short or high resistance " added to out-of-	A.9.a, A.10.b & A.10.c	54
Service door operation out-of-service criteria revised	A 11 a	38.39
Service door operation out of service chiefla revised	7. TT. d.	00, 00
revised	A. 11. b.	38
Air/Vacuum door out-of-service language revised	A. 11, b. 2)	38
Criteria for horns revised	A 12	40
Criteria for mirrors revised	A. 13. a. b. & c.	41-43
Criteria for driver's seat and belt revised	A 14	44
Out-of-service criteria for passenger seat mounting fasteners		
revised	A. 15. b.	45

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Criteria for emergency door revised	A. 16. a.	50
Buzzer gives false alarms moved to out-of-service	A. 16. b.	51
Criteria for emergency hatch labeling revised, repair moved to out-		- /
of-service and Note added.	A. 16. c. 1)	51
Post-Trip Passenger Check criteria revised	A. 16. d.	52
Criteria for glass cracks and fogging revised	A. 17. a. & b.	53, 54
Window will not stay closed moved to out-of-service revised	A. 17. c.	55
Lift Inspection procedures revised	A. 18. 1)	56- 58
Lift control cable or wiring moved to out-of service. Lift control head added to out-of-service	A. 18. 1)	57
Note added for second webbing cutter	A. 18. 2)	58
Out-of-service criteria for radio added	A. 19.	59
Criteria for interior wiring and hoses revised	A. 20.	60
Criteria for step well revised	A. 21. b.	61, 62
NHTSA references to hand rails deleted	A. 21. c.	Deleted
Graffiti and mildew criteria revised and moved to out-of-service	A. 21. d.	63
Criteria for loose objects revised	A. 21. f.	64
NHTSA nut and string test from National Standards (Chart 4) added		65
LED type lights criteria revised	B. 1.	67
Side Marker lights moved from B. 1. To B. 2.	B. 1.	73
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Repair and out-of-service criteria for parking lights revised	B. 1. h.	72
Repair and out-of-service criteria for B. 2. revised	B. 2.	73. 74
Criteria for switch on pre-1985 buses deleted	B. 2. a.	Deleted
Criteria for out-of-service dates changed to OEM or equivalent	B. 3.	75
Loose components moved from repair to out-of-service	B. 4. a. & b.	77.78
Alternating pattern added to out-of-service	B. 4. a.	77
Old dates deleted from out-of-service	B 4 a	77
Criteria for mirror surfaces and fasteners revised	B.5.a	79
Bumper/body seal repair moved to out-of-service	B 5 b	79
Mirror and brightness of lights added to out-of-service	B 5 i	82
"Fuel Type Lettering" added to CHART 7. item "R"	B.5.	84
Repair and out-of-service criteria revised	C. 1. a.	85
Steering Column shaft repair criteria revised	C. 1. b.	87
Tie rod out-of-service criteria revised to include "bent" tie rod	C. 1. a.	92
Order of procedures and criteria revised	C 2	94-97
Box and door added to battery slide tray	C 2 a	94
Flexible strap or other non-rigid battery hold-down removed from	C 2 h	Deleted
out-of-service	U. 2. D.	Deleteu
Battery terminal out-of-service criteria revised	C. 2. c.	94
Battery cleanliness out-of-service criteria revised	C. 2. e.	95
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Procedures and criteria revised	C. 4.	102-104
Engine air cleaner loose components moved to out-of-service	C. 5. a.	105
Water pump fasteners repair criteria deleted	C. 5. d.	Deleted
Wiring procedures and out-of-service criteria revised	C. 6.	107
Reservoir added to radiator procedure and criteria	С. 8. а.	109
Radiator cap incorrect type moved to out-of-service	C. 8. b.	109
Fan shroud repair moved to out-of-service	C. 8. d.	109
Chart 12 proper wiring gauge usage deleted		Deleted
Front wheel bearing dust cover criteria removed from out-of-		Deleted
service		from D. 1. a.
Locking pin repair deleted	D. 1. c.	
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assembly	D. 1. K.	110
Brake lines routing out-of-service criteria added	D. 2. b.	118
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Transmission filter and cooler, repair and out-of-service criteria revised	D. 4. d. & e.	130
Leakage out-of-service criteria revised	D. 5. a.	131
Leakage criteria revised	D. 5. c.	132
Leakage criteria added for DEF	D. 5. e.	132
DEF tank procedure and criteria added to fuel tank	D. 6.	133, 134
Wiring repair moved to out-of-service	D. 6. d.	134
Anti-lock brake systems repair criteria deleted	D. 7. e.	Deleted
Drive-shaft foreign matter deleted	D. 8. a.	Deleted
Differential leaking moved to out-of-service	D. 9. c.	140
Note added to shock absorber out-of-service column	D. 9. f.	142
Slack adjuster repair deleted, and out-of-service criteria revised	D. 10. d.	146
Air wedge brake deleted	D. 10. j.	Deleted
Disc brake pads section added	D. 10. g.	149
Frame rail padding missing repair deleted	D. 11. a.	Deleted
Luggage compartment door latch repair moved to out-of-service	D. 11. e.	155
Mud flap procedure and criteria added	D. 11.	155
Exhaust leak and muffler repair items moved to out-of-service and DEF procedure and criteria added	D. 12.	156
Warning light indicating a mechanical safety condition added to	F. 2. a.	167
Manual transmission deleted	F. 2. b. 2)	Deleted
Supervisor II classification deleted	,	Deleted
Delete two year curriculum requirement for technical certificate		179, 187
Application for school bus safety inspector certification and application for school bus safety inspector recertification have been combined into one application		187

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