

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
1. Headlights, Turn Signals, Hazard, Side Marker, Brake Tail, Backup Lights, Backup Alarm and Park Lights

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Headlights			
1) Check both headlights for brightness, operation, condition of sealed beams, and aiming.	1		
a) Check high beam indicator operation and headlight switch.	a	a	
b) Either sealed beam does not light on low and high, when lights are required.	b		b
c) Either sealed beam does not light on low and high, when lights not are required.	c	c	
d) Any sealed beam lens is fogged, cracked, or light is dim.	d	d	
e) Dimmer switch sticks, is hard to operate, or doesn't function.	e	e	
Turn Signals			
1) Check turn signals (including bulbs and lenses) for operation, condition, and specifications. Turn signals mounted on top of front fenders (type "C" only) are permissible.	1		
a) Turn signal does not flash.	a	a	
b) Bus is over 10,000 lb. GVWR and all type D buses and are not equipped with side-mounted turn signals.	b		b
c) Turn signal switch does not function properly or will not maintain set position.	c	c	
d) Turn signal indicator does not properly indicate right and left.	d	d	
e) Turn signal does not cancel or return to neutral position.	e	e	
f) Any front, rear, or side-mounted turn signal lens is not amber.	f	f	
g) Any front, rear, or side-mounted turn signal lens is damaged and white light is visible.	g	g	
h) Any front, cowl mounted, top of fender, rear, or side-mounted turn signal does not flash.	h	h	
i) Any front, rear, or side-mounted turn signal lens is cracked or lens improperly installed.	i	i	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
1. Headlights, Turn Signals, Hazard, Side Marker, Brake Tail, Backup Lights, Backup Alarm and Park Lights

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Hazard			
1) Check side marker lights (if installed) for operation and condition.	1		
a) Hazard lights do not flash.	a	a	
b) Switch does not function or will not maintain set position.	b	b	
Side Marker			
1) Check side marker lights (if installed) for operation and condition.	1	1	
Brake			
1) Check brake lights and lens(es) for operation, condition, and specifications.	1	1	
a) Any brake light lens is not red or is not proper type meeting SAE specification.	a		a
b) Type B, C and D is not equipped with two (2) seven (7) inch and two (2) smaller brake lights.	b	b	
c) A brake light on one side fails to function when brake pedal is depressed.	c	c	
d) Brake lights on both sides fail to function when brake pedal is depressed.	d		d
e) Any brake light lens is cracked or installed incorrectly.	e	e	
f) Any brake light lens is damaged and white light is visible.	f	f	
g) After brake pedal is released, brake light switch sticks, or lights stay on.	g	g	
Tail			
1) Check tail light(s) and lens(es) for operation, condition, and specifications.	1		
a) Any tail light lens is not red or is not proper type meeting SAE specifications.	a		a
b) Any tail light lens is cracked.	b	b	
c) Any tail light lens is damaged and white light is visible.	c	c	
d) One (1) tail light on either sides fails to function (four 4 tail light system only).	d	d	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
1. Headlights, Turn Signals, Hazard, Side Marker, Brake Tail, Backup Lights, Backup Alarm and Park Lights

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Tail (cont.)			
e) Both tail lights on one (1) side fail to function when headlight switch is in either the park or headlight positions (four (4) tail light system).	e	e	
f) One tail light on either side fails to function (two (2) tail light system).	f	f	
g) Type B, C or D built since November 1, 1985 is not equipped with two (2) seven (7) inch and two (2) smaller tail lights.	g		g
Backup Lights			
1) Check for operation of back up lights.	1		
a) One back up light does not work.	a	a	
b) All back up lights do not work.	b	b	
c) Any backup lens is cracked.	c	c	
d) Backup light(s) stays on all the time or stays on in any gear position other than reverse.	d		d
Backup Alarm			
1) Check for presence of back up alarm (buses manufactured starting November 1, 1985).	1		
a) Check operation of alarm by placing transmission in reverse (engine running) and listening for alarm sound.	a	a	
b) Backup alarm missing.	b	b	
Park Lights			
1) Check park lights for proper operation and condition.	1		
a) One or any of the park lights do not work.	a	a	
b) Any park light lens is cracked or damaged.	b	b	
c) Parking lights do not function in park or headlight positions.	c	c	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
2. Clearance & ID Lights, Reflectors, Strobe Light
(if equipped)

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
<p>Clearance and ID lights</p> <p>1) Check light(s) and lens(es) for operation, condition, and location. Also check license plate light.</p> <p>a) Any clearance light switch is hard to operate, sticks, or knob is missing (repair).</p> <p>b) Any bus over 30' in length is not equipped with intermediate amber clearance light on the sides</p> <p>c) Any rear clearance or ID light lens is not red, or any intermediate or front lens is not amber.</p> <p>d) Any clearance or ID light fails to function.</p> <p>e) Any clearance or ID light is damaged or white light is visible.</p> <p>f) License plate light is inoperative.</p>	<p>1</p> <p>a</p> <p>b</p> <p>c</p> <p>d</p> <p>e</p> <p>f</p>	<p>a</p> <p>b</p> <p>c</p> <p>d</p> <p>e</p> <p>f</p>	
<p>Reflectors</p> <p>1) Check reflectors for condition and location.</p> <p>a) Reflectors are not mounted at a height not to exceed 42 inches nor less than 30 inches above the ground on which the vehicle stands.</p> <p>b) Reflectors are required as follows:</p> <p>1) Buses over 30' in length: two (2) red on rear, one (1) red on each side at rear, one (1) intermediate amber on each side, and one (1) amber at front right side behind entrance door and at a similar location on the left side.</p> <p>2) Buses under 30' in length: same, except intermediate amber is not required.</p> <p>c) Any reflector is damaged or cracked.</p> <p>d) Any required red reflector is faded, significantly affecting its original color.</p>	<p>1</p> <p>a</p> <p>b</p> <p>c</p> <p>d</p>	<p>a</p> <p>b</p> <p>c</p> <p>d</p>	
<p>Strobe Light (Optional)</p> <p>1) Check roof mounted white flashing strobe light for operation, location, and condition.</p> <p>a) Any bus manufactured if equipped with a roof mounted white flashing strobe light mounted on the longitudinal center no closer than 1 foot from the rear of the bus body.</p> <p>b) Check that strobe light works properly and it is wired through the vehicle hazard lamp system. Strobe light pilot light fails to function.</p>	<p>1</p> <p>a</p> <p>b</p>	<p>a</p> <p>b</p>	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
3. School Bus Safety Lights

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
School Bus Safety Lights			
1) Check School Bus Safety lights for operation and condition.	1		
a) Any School Bus Safety light is not red (outer) or amber (inner) or is not proper type.	a		a
b) Any School Bus Safety light does not light.	b		b
c) Any School Bus Safety light hood is damaged so that it obstructs visibility of the light. Hoods are required on all buses purchased after November 1, 1985.	c		c
d) Either School Bus Safety light pilot light fails to function.	d		d
e) Amber/red lights (front and rear) do not alternately flash (side to side).	e		e
f) Any School Bus Safety light lens is damaged and white light is visible.	f		f
g) Any School Bus Safety light lens has darkened, faded, is misaimed, or is dirty, affecting the color of the light or reducing the visibility to less than 500 feet in bright sunlight.	g	g	
h) School Bus Safety lights are wired through the ignition.	h	h	
i) A master switch is not properly installed.	i		i

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
4. Stop Arm

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Stop Arm(s)			
1) Check stop arm(s) for specifications, operation (fully extends to 90 degrees), and condition.	1		1
a) Any stop arm light does not flash.	a		a
b) Hinge or bushing(s) is dry of lubrication.	b	b	
c) Stop arm assembly or blade mounting is loose.	c	c	
d) Stop arm extends more or less than 90° (degrees).	d	d	
e) Stop arm(s) not of proper type and specifications:	e		e
1) Octagonal.	1		1
2) Reflective white border and lettering	2		2
f) Any stop arm (paint or decal) is significantly faded or discolored.	f	f	
g) Any stop arm has a severe air or vacuum leak.	g		g
Student Crossing Arm (optional)			
1) Check front bumper mounted student crossing arm for operation, condition, and mounting.	1		
a) Cross gate if equipped does not work/extend.	a		a
b) Crossing arm must extend minimum of 72 inches forward from attachment point on bus.	b		b
c) Crossing gate must be wired through the bus safety lights.	c	c	
d) Must not have master on/off or separate cancel switch.	d		d

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
5. General Condition, Bus Exterior

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Mirrors See Appendix 16			
1) Check all exterior mirror mounting and bracketry for tightness and condition. a) Brackets broke or loose. b) Mirrors or brackets missing.	1 a b	 a	 b
Rear-view Mirrors			
1) Check exterior rearview mirrors for specifications, condition, mounting, and adjustment. a) See edge of rear tire at ground level. b) Any mirror does not meet applicable regulations as to type and size. c) Any exterior rearview mirror or bracket is broken, cracked, or loose in frame or reflective surface is deteriorated.	1 a b c	 a	 b c
Convex			
1) Check convex crosswalk and side-view mirrors for specifications (correct type, size, and location) condition, mounting, and adjustment. Mirrors do not meet specifications for bus manufacture dates as shown as per FMVSS III: a) Required convex mirrors are not present. b) Any mirror is cracked, broken, or loose in frame. c) Any mirror is out of adjustment. d) Any mirror reflective surface is deteriorated.	1 a b c d		 a b c d
Bumpers			
1) Check bumpers for mounting, condition, color, and body seal (rear bumper). a) Bumper not black or black with diagonal reflective striping. b) Bumper damaged as to not having original manufactured shape. c) Bumper is equipped with any unauthorized stickers or decals. d) Bumper is missing or not secure. e) Bumper has a handhold where it has pulled away from the body. (rear bumpers only)	1 a b c d e	 a b c e	 d

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
5. General Condition, Bus Exterior

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Mud flaps			
1) Check mud flaps for mounting, condition, and size. a) Rear mud flaps	1 a	a	
Body Condition			
1) Check body exterior for accident damage, scratches, dents, rust, etc. a) Check that no body damage has sharp edges or protrusions that could present a snagging or hazard to people or students around the exterior of the vehicle. b) Body panels, rivets, or other components are damaged or corroded to the point where joint strength or body structural integrity is compromised. c) Body has rust through areas on body panels or water leaks.	1 a b c		a b
Paint			
1) Check paint on body and trim for required coloration and condition. a) Must be national school bus glossy yellow. Except low luster hoods. b) All trim must be black. c) White roofs must meet Oregon minimum standards.	1 a b c	a b c	
Reflective Markings			
1) Check reflective markings for coloration, reflectability and condition. Reflective markings required starting September 1, 1993 a) Reflective material must not be peeling or flaking off.	1 a	a	
2) Check for presence of reflective markings around any emergency exit, door, window, or roof hatch as required by F.M.V.S.S. 217 (buses purchased after September 1, 1993).	2	2	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
5. General Condition, Bus Exterior

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
Lettering			
1) Check all lettering for required type, size, location, and color. Identification	1		
2) Bus is not equipped with following lettering:	2		
a) Eight inch (8") "SCHOOL BUS" front and rear with reflective background.	a	a	
b) Four inch (4") minimum and six inch (6") maximum the name of the school district or contractor company name is on both the left and right sides of body.	b	b	
c) Local bus number at least four (4") visible from any point 50 feet from bus mounted on flat surface.	c	c	
d) Minimum two inch (2") lettering "Emergency Door" at top or above door both inside and outside the bus.	d	d	
e) Emergency window(s) or hatch(es) that do not open form the outside that are labeled "Emergency Exit" must have lettering "Operates From Inside Only".	e	e	
f) Any required lettering is not black.	f	f	
g) Unapproved lettering or signs.	g	g	
Emergency Door Operation			
1) Check emergency door for operation from exterior of bus.	1		
a) Emergency door latch mechanism requires more than 40 pounds to release.	a	a	
b) Emergency door handle is mounted (e.g. horizontally) to allow "hitching" onto the bus.	b	b	
c) Emergency door is hard to open fully from outside the bus.	c	c	
d) Emergency door is missing positive latch. After 1995	d	d	
e) Emergency door does not open or close completely.	e		e
f) Hood hinges are not lubricated or are damaged.	f	f	

School Bus Maintenance & Inspection Manual for Oregon School Buses

D. OUTSIDE BUS
5. General Condition, Bus Exterior

Items to be inspected & condition	Annual Insp.	30-day	O.O.S.
<p>Engine Hood</p> <p>1) Check engine hood for operation, condition, and safety latch.</p> <ul style="list-style-type: none"> a) Hood is misaligned. b) Hood hinges are not lubricated or are damaged. c) Hood cannot be opened as designed. d) Safety latch does not secure hood, is not lubricated, or is damaged. e) Hood prop rod(s) or hold-open feature does not function properly. 	<p>1</p> <p>a</p> <p>b</p> <p>c</p> <p>d</p> <p>e</p>	<p>a</p> <p>b</p> <p>c</p> <p>d</p> <p>e</p>	
<p>Cleanliness</p> <p>1) Check exterior of bus for cleanliness.</p> <ul style="list-style-type: none"> a) Bus is dirty to the point visibility through any window or light lens is significantly reduced. 	<p>1</p> <p>a</p>	<p>a</p>	