

## OBION COUNTY SCHOOL SYSTEM 78 PASSENGER CONVENTIONAL COMPLETE SCHOOL BUS SPECIFICATIONS

**Vehicle is to meet or exceed all Department of Transportation Federal Motor Vehicle Safety Standards & State of TN Specifications For School Buses**

ENGINE	240 + hp In-line 6 Cyliner engine with 600 ft lbs torque minimum. (Preferably, but not mandatory, a wet sleeve engine.) Minimum 1,250 watt engine heater installed. Complete engine noise package. Warranty 5 years unlimited miles, to cover all parts and labor.
ENGINE	All engines must be at least 2012 emissions compliant.
HOOD	Tilting hood.
GAUGES	Water & oil w/ warning light with buzzer. AMP meter and voltmeter. Speedometer, tachometer, dual air pressure gauges w/ warning light and buzzer.
CRUISE CONTROL AND HIGH IDLE	Dash mounted
TRANSMISSION	Minimum of 2500 series, 5 speed automatic with external oil filter. External cooler mounted in front of radiators.
ALTERNATOR	200 AMPS
AIR COMPRESSOR	13.2 CFM minimum.
FRONT WHEEL BEARINGS	Oil bath.
FRONT AXLE	10,000 lb. minimum
REAR AXLE	19,000 lb air ride suspension minimum
FRAME	50,000 lbs. PSI
DIFFERENTIAL RATIO	To attain 70 mph.
RUBBER FENDERS	Rear
BRAKES	Front 16.5X5, Rear 16.5X7 thick Q-plus shoes minimum. Air brake system to include air dryer AD-9 with heater and air tank drain valve DV-2 with heater. Non-asbestos brake lining, 1 automatic slack adjuster at each wheel. Must include 4 channel-anti lock brake system.
WHEEL BASE	Must not exceed state allowed limits.
WHEELS	Pilot type/10 stud, 22.5X8.25. Include spare rim only.
TIRES	11R22.5, 16 ply.
PASSENGER/REAR WINDOWS	To be 24X12 with aluminum frame. 28% dark tint.
ROOF	78" minimum head room.
ENTRANCE DOOR	Electric or air outward opening 36" wide with key locking and 3 position switch on dash.

ENTRANCE DOOR STEPS	Should be koreseal pebble tread with white pebble top nosing.
WINDSHIELD WIPERS	Two (2) electric operated heavy-duty wipers. Washer to be three (3) qt. capacity minimum. Intermitent wipers.
DRIVER'S SEAT	Three (3) point driver seat belt with D loop. Adjustable air, including right side arm rest & cloth insert. Seat is to be all gray color.
PASSENGER SEATS	Seat belt ready. Gray color. Must meet the most current new seat cover specs for school buses.
MASTER DISCONNECT	For all body circuits.
NOISE PACKAGE	To include full length perforated ceiling.
GRAB RAILS	Two (2) shall be supplied with 1 aft & 1 forward of service door.
REFLECTIVE PACKAGE	Complete reflective tape package to be included
BUMPERS	To meet Federal & State Specifications.
BODILY FLUID/FIRST AID KITS	To meet Federal & State Specifications. Must be included.
MUD FLAPS	Front & rear.
(2) STOP SIGNS FRONT & REAR	Electric or air operated w/strobe lights. Also include electric or air crossing gate & latch on front bumper with interrupt switch.
REAR EMERGENCY DOOR	Upper & lower glass with guard on lower half of door. Include door lock with starter interrupt to prevent starting with door locked.
BODY UNDERCOATING	Underneath entire body is to be undercoated.
RADIO	AM/FM CD player with PA system inside & outside. Include 6 speakers.
VIDEO CAMERA	REI digital with hard drive & two (2) eyes.
CHILD REMINDER SYSTEM	Warning buzzer interior (not in side panel) to be installed on bus.
ROOF EXITS	To meet federal and state specifications for school buses. Total of (2) roof hatches.
EXIT WINDOWS	Four (4) push out emergency exit windows, tow (2) on each side with warning buzzer. 24"X12" windows with aluminum frame.
SHOCKS	Front & rear.
STEERING	Hydraulic power, tilt column.
FUEL TANK	Equipped with 100 gl minimum, & sending unit. Access to the fuel tank shall be on the right side mounted between frame rails & behind rear axle.
INSPECTION PLATE	In floor for access to the fuel tank sending unit.
DRIVE SHAFT	Metal guards required.

BATTERY	Three (3) 1950 CCA minimum all three combined.
BATTERY COMPARTMENT	Batteries are to be installed in a compartment with easy access from outside of body.
HORN	Dual electric
BACK UP ALARM	Installed behind rear axle with 112 decibels. To meet Federal & State specifications.
EXHAUST	Shall exit left side just in front of duals or through rear bumper. Preferred through rear bumper.
HEATERS/DEFROSTERS	Three (3) required. One in the rear not less than 84,500 BTU, one in step well area of not less than 50,000 BTU with defrosting for the windshield & driver's window, and one mid-ship with not less than 50,000 BTU. Two (2) 6" defroster fans to be supplied. Ball type shut off valves to be installed.
LIGHTS	Armored type cluster clearance lights or led type all mounted below roofline to meet state and federal specifications.
HEADLIGHTS	Wig-wag alternating.
TOW HOOKS	Two (2) front frame mounted & two (2) rear mounted to Tennessee Specifications.
ELECTRICAL	All wiring to be properly insulated & each circuit equipped with individual circuit breaker. Breaker panel to be readily accessible to driver. Body wiring to be color-coded & numbered. Body switch panel to be illuminated & easy to reach from driver's seat.
SOLENOID	Disconnect all body circuits.
DECALS	All decals to be 3M reflective tape, bus sign on front, rear & sides.
8-LIGHT WARNING SYSTEM	Equipped with child reminder system.
MIRRORS	A non-glare interior adjustable rear view mirror 10"X30" minimum size, placed to afford view of the road as well as passengers. Two (2) rear view mirrors located on each side of bus. Two (2) cross-over mirrors on hood. All mirrors heated.
BODY FLOOR	Floor covering to be gray vinyl koreseal brand.
WINDSHIELD	Standard with dark shaded top.
ROOF STROBE LIGHT	Located on rear 1/3 of roof. Power pack to be in base of light's metal base. Strobe light guard to be installed.
RUB RAIL	Four (4) on each side, all to be painted black.
COLOR	School Bus chrome yellow with black trim and lettering. The roof is to be white on all buses.

LETTERING/NUMBERING	To include "OBION COUNTY SCHOOLS" on each side. Number on each side to be the same size as letters. Numbers to be on front and rear of bus. Unit numbers will be 1488, 1489, and 1490. Windows will be numbered with odd numbers on left side & even numbers on right side on inside of bus.
TOWING	48 months free towing will be included on new buses.
FREIGHT	Please quote as a separate item (FREIGHT FOB TROY, TN)
SERVICE MANUAL	A complete chassis shop service & body parts, and engine manual will be provided, or CD will be provided.
BUS LUBRICANTS	Lubricants, motor oil, transmission & rear gear box fluid levels filled. Cooling system protected to -20 degrees F.
DIAGNOSTIC SOFTWARE	Diagnostic software to include all cables and connectors to plug a laptop into bus diagnostic port.
DELIVERY DATE	To be agreed upon after bids.
<p>COMPLETE UNITS WILL BE DELIVERED TO THE TRANSPORTATION DEPARTMENT IN TROY, TN.</p> <p>802 C.C. GURIEN DRIVE, TROY, TN. 38260</p> <p>PLEASE LIST NEAREST SERVICE WARRANTY DEALER LOCATION</p>	