

**BID SPECIFICATIONS: 2025 OR 2026 77-PASSENGER TYPE C CONVENTIONAL BODY WITH 71 PASSENGER BENCH SEATING MFSAB ACTIVITY BUS**

**ALL SCHOOL BUSES MUST BE IN COMPLIANCE WITH OKLAHOMA MINIMUM SCHOOL BUS SPECIFICATIONS**

**BODY SPECIFICATIONS:**

**BACKUP ALARM:** Operates while in reverse.

**NO CHILD LEFT BEHIND:** Alarm system with reset button at rear of bus.

**BUMPER, REAR:** 10"x 3/16" Steel Wraparound Type, Bolted to Frame.

**COWL STEPS AND HANDLES:** Mounted LH and RH at windshield

**DOORS:** Entrance: Double outward opening, Electric operated.

Equipped with Vandal Lock and a Header Pad.

Exit: Rear, center mounted, upper/lower glass. Lower glass guard with Vandal Lock and Interlock. Retainer to hold door open.

Header Pad.

No exposed hinges

**STEPS:** 3-step Step Well, with Proflex lined steps with stamped in pebbles. Stainless steel handrail left and right side.

**EMERGENCY EXITS:** (2) Low Profile with outside release roof hatches.

(2) Push-Out Windows per Side

**INSULATION:** Fiberglass Type, Full Body Insulated.

**LETTERING:** School graphics installed by Kryptonite Kustomz in Broken Arrow OK.

**LIGHTS: All LED**

Backup Lights: (2) 7" Clear Lens.

Backup Additional (2) Oval LED mounted on left and right skirts, Aft of rear well pocket area, below seat line illumination at rear tire, wired to the reverse light signal.

Clearance Lights: (2) Amber Front (Armored) (2) Red Rear (Armored)

Cluster Lights: (3) Amber Front (Armored) (3) Red Rear (Armored)

Directional Lights: (2) 7" Amber Front/ (2) 7" Amber Rear  
Directional Lights, Side: (1) Armored Amber Light per side.  
Dome Lights: Stagger Mounted in Light Bar, LED  
Drivers Dome Light: (1), Separate Switch, LED  
Strobe Light Roof Mounted (1) Separate Switch.  
Stepwell & Entrance Door Light: Operates with Door Control, LED  
Stop & Tail Lights: (2) 4" and (2) 7" Red Lens

**WIRING:** All Wiring Must Be: Numbered, Color Coded, Loom/Grommet Protected

**MIRRORS:** Exterior Rearview: Rosco Eurostyle Heated System, adjustable from inside  
Exterior Crossview: Mirrorlite High definition Bus boy heated  
Interior Rearview: 6 X 30 Padded Edge

**MUD FLAPS:** Anti Spray/Anti Sail Front and Rear

**PAINT:** Exterior: Black  
Roof: White Roof  
Interior: Gray  
Interior Trim: Black Seat Frames and Heaters  
Interior: Aluminized Side Panels

**RELECTIVE TAPE:** 3-M HIGH INTENSITY and/or Reflexite V82 (White all exits, rear and sides)

**ROOF CAP:** School graphics by Kryptonite Kustomz in Broken Arrow OK.

**RUB RAILS:** (4) One Piece, Continuous

**SKIRTS AND SIDEWALLS:** 16 Gauge, Smooth

**FLOOR COVERING:** One Piece, Dark Grey  
Sub floor 5/8 marine grade plywood.

**FUEL TANK INSPECTION PLATE:** Floor Mounted

**GLOVE BOX:** (1) Left Side Console and (1) Front Bulkhead w/Latch  
Drivers storage compartment above drivers window.

**HEADROOM:** 78" Minimum  
Full Acoustical Headliner

**HEATERS:** Left Front Heater and Defroster: 90,000 BTU, Dual Motors/Blowers  
LH Rear: 84,500 BTU  
Stepwell Heater: 50,000 BTU with Defroster  
Defroster Fan: 2-Speed, [1] upper center mounted, Metal Case [2]

Right side mounted, Metal Case  
**Ball Valve Shut Off – Inside Driver Access**

**AIR CONDITIONING:**

180,000 BTU air conditioning system. Roof top condenser with a TM43 Compressor, separate Radiator Condenser for stand-alone drivers supplied A/C and heat with TM16 Compressor.  
Ducted parcel overhead luggage racks (open view) with ½” Slots; includes separate A/C louvers, LED reading lights  
And dual USB ports mounted over passenger seats.  
Separate driver’s blower vent mounted in parcel rack behind driver  
With separate controls for driver.  
Unit to include 3year limited manufactures warranty.

**ROOF:** Roof Bows: 14 gauge, one-piece design (not welded or riveted)  
Ruvan Tape: Used on all joints

**SAFETY EQUIPEMENT:** Fire Extinguisher: 5# dry type with hose and gauge  
First Aid Kit: 16 units per state specifications  
Reflectors: 3 Triangle Warning Devices  
Clean Up Kit: Per State Specifications

**SEATS:** Passenger: 39” DOT approved School Bus Seats for 71 passenger capacity.  
Upholstery: 42 oz. Fire Block on ALL seats and barriers.  
Driver’s Seat: manually adjustable

**SURVIELENCE SYSTEM:** Seon TH6H500 to include: Trooper TH DVR 6 HD channels, audio, security front cover with lock set, mounting bracket, power harness, and a 500GB removable hard drive. Include explorer TX8 and HX16 wiring bundle with adapter harness, diagnostic indicator/alarm button cable 20 ft, five signal input 20 ft and a GPS4 receiver magnetic mount cable 20 ft.

**CAMERAS:** (2) HD3Q03A120: HD IR Camera, dome, 2.8mm Lens, internal audio with 20” harness.

(3) HD3Q03A150: HD IR Camera, dome, 2.8mm Lens, internal audio with 50” harness.

Front camera mounted to show driver, step-well and 4-5 seats back. 2<sup>nd</sup> camera mounted behind the driver seat facing the driver and step-well, 3<sup>rd</sup> camera mounted mid-way above passenger window on driver’s side facing rear. 4<sup>th</sup> camera mounted in rear forward facing and the 5<sup>th</sup> camera mounted above passenger window mid-way facing the front.

**SUNVISOR:** 6.5 X 30, Transparent Plexiglas.

**SWITCHES:** Rocker Style with Circuit Breakers.

**UNDERCOATING:** Full underbody Fire Resistant coating.

**WINDOWS:** Tinted to Allow **28%** Light Transmittal. 12” Split Sash. Black window frames.

**WINDSHIELD:** Flat with shaded band

**WIPERS:** Bottom Mount, Wet Arm, Electric, Intermittent operation, Single switch, 6-quart reservoir.

**AM/FM PA SYSTEM:** 8 speakers and (1) external PA Horn

**LUGGAGE COMPARTMENTS:** Two luggage compartments on each side of bus located Between the front and rear axle.

**CHASSIS SPECIFICATIONS:**

**ALTERNATOR:** 325 Amp, Leece Neville

**STARTER:** Delco Remy

**BATTERY SYSTEM:** (3) 12 Volt 950 CCA Batteries Minimum. ( 2850 total CCA)

**FRONT AXLE/SUSPENSION:** 10,000# Front Axle, 10,000# Parabolic Springs.

**REAR AXLE:** 21,000#

**REAR SUSPENSION:** 21,000# **Air ride suspension** with 9.25” ride height.

**SHOCK ABSORBERS:** Heavy-Duty Front and Rear

**GEAR RATIO:** 5.57

**BRAKE SYSTEM:** Dual Air Brake System with 4-Channel ABS  
Dust Shields Front and Rear.  
Automatic Slack Adjusters Front and Rear  
Color Coded Nylon Brake Lines  
Air Compressor Supply Line through Air Cleaner  
Inversion Valve and Double Check Valve  
Automatic Type Drain Valve with Heater  
Dual Air Pressure Gauge  
18.7 CFM, Cummins Air Compressor  
Bendix AD-9 with Heater  
Front Brakes: S-Cam 15.0”X4.0”, 20 sq. in brake chamber

Rear Brakes: S-Cam 16.5”X7.0”, Bendix TR3030 brake chambers

**EXHAUST SYSTEM:** Horizontal Dual Catalytic Convertors, Frame Mounted Muffler Exiting The Left Side

**TRANSMISSION:** Allison 3000 Series 5 Speed with synthetic fluid with push button controls.

**FUEL TANK:** 100 Gallon with Protective Cage, Mounted between the frame rails.

**GAUGES:** Electronic Speedometer, Tachometer, Hour meter, Voltmeter, Oil Pressure, Water Temperature, Fuel Gauge, and Ammeter. In-Cab Air Restriction Gauge, Transmission Oil Temperature Gauge, Low Oil Pressure/High Water Temperature, Warning Light and Buzzer.

**HOOD AND FENDERS:** Tilting Fiberglass Hood.

**HORN:** Dual Electric

**STEERING:** Ross TAS-66 Steering Gear, Tilting Column

**ENGINE:** Cummins 260HP with 660lb-ft torque

**ENGINE COOLING SYSTEM:**

Deaeration system with tank and sight glass.  
Constant Torque Hose Clamps.

**ENGINE EQUIPMENT:** Block Heater: 750 Watt, Front Bumper Plug  
Cruise Control  
Electronic Hand Throttle  
Heavy Duty Dual Element Air Cleaner with Pre- Cleaner  
Electric Fan Drive  
Idle management system, ramps up engine speed with low battery  
And vehicle stationary.

**HEADLIGHTS:** Daytime Running Lights.  
Headlight Warning Buzzer

**WHEELS:** 22.5 X 8.25, 10 Stud, Hub Piloted, Black Painted Steel.  
Include an alternate price for aluminum wheels.  
Oil Lubricated Wheel Bearings Front and Rear.

**TIRES:** **Michelin Brand**  
Front: 11R22.5 XZE2, 14 ply Load Range H  
Rear: 11R22.5 XDN2, 14 ply Load Range H

**TOW HOOKS:** Dual Frame Mounted, Front and Rear

**WHEELBASE:** 276"

**FRAME RAILS:** MILD CARBON STEEL (50,000 PSI YIELD)  
10.125"x3.062"x0.312

**WARRANTY:** In addition to standard warranty a Cummins extended warranty for ten years unlimited miles to include:

Engine, Engine Electrical, Injectors, Turbo Charger and Aftertreatment System.

Five year Unlimited mile towing policy.

Extended three year/ 50,000 mile vehicle warranty included in addition to the standard warranty.

Include copies of all warranties.

**Full View Camera System:** To give views of up to 360 degrees of the sides and rear of the bus.

**Active Collision Mitigation System:**

System to include:

Electronic Stability Control

Adaptive Cruise Control with Collision Mitigation and Stationary Vehicle Braking

Over speed Alert and Action

Front Radar and Camera with Driver Display

Impact Alert

Following Distance Alert

Stationary Object Alert

Lane Departure Warning

**RADIO: Harris**

DM-M78B Mobile, XG-25M, 700/800MHZ, 35W

DM-PL5L FEATUREP 25 OVER-THE-AIR-REKEYING

DMPL7Z Feature 512 Systems/Groups

DM-PL4F Feature P25 Phase 2 TDMA

DM-PL7M Feature, 256-AES, ECP Encryption

DM-PKGPT Feature Package, P25 trunking

DM-7N9X Kit Accessories, XG-25M

AN-225001-004 Antenna Element, 700/800 2dB Low Profile

AN-125001-002 Antenna, Base, Standard Roof Mount, Low Loss

DM-MC9R Microphone, Standard, XG-25M

Microphone placed within easy reach of the driver

**SERVICE MANUAL:** Body and Chassis on CD-ROM or online

**PARTS MANUAL:** Body and Chassis on CD-ROM or online

**Any and all exceptions to bid specifications must be noted and description of alternate equipment attached to bid.**

**ADDITIONAL ALTERNATE EQUIPMENT:**

Tyler Technologies, single-mode G09 (or latest compatible model) for Verizon network GPS unit appropriate to vehicle and compatible with current GPS system with all installation hardware included. (School district will self-install)

**DIAGNOSTIC SOFTWARE:** Engine, Transmission, Brake and Body Diagnostic Software and Interface Cable[s]