

 Policy #: T-6	Effective Date: 2/26/02	Page #: 1 of 3
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COMPONENT: TRANSPORTATION

SUBJECT: INSPECTING NEWLY PURCHASED VEHICLES

PERFORMANCE OBJECTIVE: To ensure that the vehicle meets all the requirements as mandated in the transportation regulations.

Agency must ensure that newly purchased vehicles are inspected upon delivery by the Marketing Manager/Director according to the current program year bus specifications.

This vehicle is intended to provide the safest means of transportation.

Signature upon delivery

Date

THE CURRENT PROGRAM YEARS BUS SPECIFICATIONS:

HIGHLANDRIM HEAD START

Bus Specifications

30 Passenger

Type "A" Dual Rear Wheel

General Dimensions:

- A. Exterior Width; 96" min
- B. Interior Width; 90" min
- C. Length; Over Front and Rear Bumpers; 265.3" min
- D. Rear Overhang; 72.5" min
- E. Interior Body Length (Driver's seat to Rear Wall); 169.6" min
- F. Height overall (empty); 108" min
- G. First step to ground; 11" min
- H. Floor height to ground; 27" min
- I. Headroom; 73" at center aisle

Air Conditioner:

Front and rear air conditioner with a radiator mounted condenser. With a minimum of 42,000 BTU's or skirt mounted condenser with a minimum of 52,000 BTU's.

Body Panels:

Full 16 gauge smooth aluminum panels on exterior primed after fabrication and before assembly. Laps and joints sealed. One piece composite rear end cap. One piece composite front hook and transition panel.

22 gauge stucco patterned aluminum on sidewalls interior from window line to floor.

The roof headlining sheets shall be 18 gauge aluminum primed after fabrication and before assembly. Laps and joints will require sealer. Edges hemmed and crimped.

Bumpers:

Front bumpers must be Chassis manufacturer's standard with a crossing control arm.

The rear bumper shall be full width of body and wrap around. It must be of pressed deep concave steel with tubular braces and min. 7/64" X 9 3/4" high tubular steel braces.

Defroster Fan:

To be located on door control pedestal

Defroster:

Shall be chassis supplied and must have a thermostat adjustment control. A minimum three speed blower adjustment control is required.

Doors:

The driver's door will be the standard van door supplied by chassis manufacturer. It shall include a padded inside door header.

Entrance door must have a minimum clear opening of 24" X 72". It must be a double leaf outward opening, manually operated door located on right side front. It shall also have a padded door header inside of a minimum of 4". The door control mechanism must consist of a flat black base with black handle and control rod. This entrance door must comply with safety standard FMVSS 217.

The emergency door shall open left to right and must have a minimum clear opening of 33" X 54". It shall be two glass (upper & lower) type door located center rear of bus. It is to have a slide bar lock (single point), buzzer signal, greasable "piano type" pin hinge, non-hitch exterior handle and a safety guard for the interior handle. Upper glass shall be a minimum 380 square inch. Rear door to include a prop rod to hold door open in the event of an evacuation with a 4" header pad upholstered with black 42 oz. Proform fire block material.

Drip Moldings:

Formed in roof panel over window side sash is required. Drip moldings must be provided also above each and all doors and drivers window.

Electrical:

The main body wiring harness must be easily accessible by removing molded covers located above window sash and the vertical post at the rear of the driver's window. The molded covers must be fastened by sheet metal screws only and must be able to remove covers without removing the window sash.

The 100 amp continuous duty solenoid relay must be provided and activated by the ignition switch on the chassis. With the ignition switch on the relay must be activated to allow electrical current to pass through to the body accessories and reduce the amp load in the ignition switch. With the ignition switch off the relay must become inactive and no current shall be allowed to pass through the body accessories. (Only the light warning system and stop arm shall have a continuous current flow with the ignition switch off.

All electrical circuits must be protected by fuses or automatic reset breakers. These fuses must be located in an access compartment above the driver's door. It shall have a hinge cover panel with locking latch. This compartment shall have a compartment light if either entrance door is activated. Driver's door or switch activation manually in panel.

All switches are to be located in an accessible area of driver. They must have a rocker type switch, easily serviceable and back lit (connected to head light switch). All main body wiring harness must be color coded and numbered.

As noise suppression switch must be installed.

Emergency Equipment must be as follows:

- A. F. E. t lbs, A-10BC, mounted
- B. Bodily Fluid Kit – Pac Kit model 6201, or equal
- C. First Aid Kit – Pac Kit model 979 or equal
- D. 2 Seatbelt Cutters (1 in front – 1 in back)

Floor:

The floor shall be a minimum 16 gage .05 aluminum corrugated floor sheets over a high-strength steel structure. Structure consists of 16 gage C – channel joists

(horizontally positioned) full width of bus at each rafter location with four (4) strategically placed longitudinal reinforcements for seat mounting. Floor assembly secured to chassis with frame risers and 1/2" bolts, 1/2" exterior grade plywood fastened to base floor with isolation between the aluminum and plywood.

The floor covering must be 1/8" black smooth rubber under the seats, wheelhouses, and driver's area. It shall also include 3/16" black rubber aisle with galvanized or aluminum steel aisle strips. The steps must be covered also with the ribbed black rubber and white nosing. A cove molding is required at the side and rear walls.

Fuel Tank Opening:

The exterior fuel fill will be provided by the Chassis manufacturer and is to be located in the left side. An access plate must also be provided in the floor for servicing.

Glass:

The windshield and driver's door glass shall be supplied by Chassis manufacturer and shall be factory tint. The entrance door shall have 4 panes of lightly tinted tempered glass.

One full length lightly tinted tempered glass must be provided in the corner panel forward of the entrance door and rear of front wheelwell.

The side sash must be aluminum framed, split sash with a 28% light transmission tinted tempered glass. The maximum clear opening can be 25" X 9". There shall also be one emergency push out sash located right and left side, hinged horizontally top, activating warning buzzer and properly marked Emergency Exit, (interior and exterior). These push out sashes must be tinted also. Frames to be painted black.

The rear door and rear stationary glass shall be 28% light transmission tinted tempered glass. All glass will comply with FMVSS 205 & 217.

Guard Rails:

Guard rails at the window line, seat cushion level, floor level and roof. These rails must be a minimum .06 aluminum thick and minimum 4 1/4" wide. The window line and seat cushion line rails must wrap around rear to rear door.

Include 2 15/16" minimum rails applied at roof extending length of passenger compartment.

Hand Rails:

There shall be one stainless hand rail mounted at top left side of entrance door Step well and extended to top left side of seat barrier. Hand rail to be mounted in such a manner as to prevent the accidental catching of clothing.

Heaters:

The chassis manufacturer shall supply a high output in-dash heater/defroster.

The rear body heater shall be a minimum of (50,000 BTU's) located left side rear of rear wheelhouse. This heater must have replaceable air filter.

Lettering:

Front and rear hoods shall be lettered "School Bus" and to be 8" high with a 1 1/4" stroke. This is to be black block letters.

The belt line must be lettered right & left side with a 6" high and 7/8" stroke. These shall be black block letters.

Rear door will have "Emergency Door" located above door interior and exterior with a 2" high and 1/4" stroke. Black block letters required.

Information supplied by buyer on location of numbers and colors of numbers. Block letter will be required and they will be 6" high and 7/8" stroke.

Lights:

Daytime running lamps.

The following lights will be minimum requirements:

Back-up two- 4" round clear lights mounted in both rear corners above bumper.

Cluster- three amber lights without metal protectors mounted in upper front hood and three red lights without metal protectors mounted in upper rear body hood.

Directional- Chassis equipped standard front and also two 7" round red lens on rear.

Dome -- Three interior dome lights; one in center of vestibule roof liner and two over seats in middle of bus.

Marker-- four (4) marker lights; two front amber, one per side on top corners; two rear red, one per side on top corners.

Step- on entrance door step light operated from dome light switch.

Stop/Tail -- Two 4" round red stop/tail lights with license plate light. Mounted in both rear corners. Two 7" round red stop/tail lights (dual elements) mounted in rear at belt line.

Switch cabinet- Must be located in driver's area and be readily accessible.

Warning System -- 8 light warning system with black out background. Must have light visors over each warning lamp. Amber lights activated by cabinet mounted master switch for complete system. To include amber and red pilot lights.

Stop Arm- Electric operated stop arm with high intensity strobe lamps. Must be 18" painted octagonal blade. Red with white letters and 1/2" white border. The lamps shall be alternating flash.

Roof Strobe light- must include a roof mounted strobe light with guard, rear 1/3 of the bus.

Mirrors:

Interior rear surveillance mirror shall be provided with minimum dimension of 6" x 16". It will be installed on front bulkhead. This mirror will be in addition to the 2" x 10" chassis supplied standard rear view mirror.

Exterior rear view mirror must comply with the new minimum standard FMVSS 111 System A. The mirrors shall be as follows or equal to:

Non heated 7" x 16" mirror, one mounted left and right with painted flat black paint arm assembly. The assembly arms must be a minimum 3/4" O.D. Each assembly must provide one 8" convex mirror mounted below in each arm assembly, left and right sides. The front fender mounted crossview mirrors must be the "Bus Boy" Mirrorlite Model 52-400. One each mounted left and right front fenders.

Mud Flaps:

Must include mud flaps front and rear.

Paint:

Exterior paint must be high solids polyurethane, National School Bus chrome yellow. The Chassis shall be the manufactures' standard National School chrome yellow.

Front and rear bumpers will be painted black, all guard rails must be painted black, warning lights background to be painted black and all four wheels must be painted black.

Interior body panels shall be painted light gray high-baked enamel. The trim shall be flat black and chassis interior color must be coordinated with the bodies' interior light gray.

The top will be painted white to prevent heat buildup.

Reflectors:

Four 3" round read reflectors with center hole mounts will be provided. There shall be one per side in side corner and one per corner on rear.

Rust proofing:

All body panels must have a high-bake primer applied to both sides of the metal and all painted panels prior to body assembly.

Driver's Seat:

The driver's seat must be supplied by chassis manufacturer. It shall be an adjustable bucket type seat with seat belt and retractor with shoulder harness.

Radio:

Must include factory AM/FM cassette radio with two speakers. To include a public address system with two speakers.

Seating:

Two 39"wx 45"h passenger restraint fully padded barriers must be provided on left side and right side. Must meet FMVSS 222. The vinyl shall be a minimum

42 oz. grey. Location of barriers per attached diagram. Must provided two stanchions with padded modesty panels, one behind driver and one at step well. Step well stanchion must include entrance grab rail.

The passenger seats shall be FMVSS 222 restraining seat. It shall have seat belts (frame mounted) for each passenger and these seat belts must be color coordinated for easy identification. The seat shall have 2 legs aisle side and side seat rail mounting. They must fasten to the floor with a minimum of two bolts and two whiz nuts per foot. The seats must meet all federal standards for Type A school buses. The upholstery must be 42 oz grey. The seat belts will be non-retracting type. Seating capacity must be 30 ambulatory capacities. Five 39" w x 45" h seats are required per side.

Step Well:

The entrance step well will be constructed of steel. It shall have a 2 step black rubber with white nosing bonded to 22 gauge steel backing and applied to steps.

Storage Compartment:

A storage compartment with quick release latches shall be provided and located over windshield. It shall be a minimum 24" long and 8" deep. The triangular flare kit must be stored in this area.

Sun Visor:

This shall be the chassis manufacturer's standard supplied visor.

Undercoating:

A wax base type undercoating "Tectyl 121 B" or equal must be provided. It shall cover underside of body including floor, skirts, front and rear wheelhouses, chassis frame risers, fuel tank, rear bumper mounting, brackets and braces and body tie down clips and bolts.

Ventilator-Escape Hatch:

Manufacturer standard states exhaust ventilator shall be supplied and located in center of front roof section.

There shall be one roof escape hatch with vent provided and located in center of roof. This hatch shall have a minimum 22 square inch clear opening, a warning buzzer and interior/exterior release mechanism handles painted red. The color must be white/off white.

Wipers:

The windshield wipers shall be intermittent and supplied by Chassis manufacturer. They shall be dual electric mounted below windshield and included a washer spray device.

Chassis Requirement

Alternator-124 amps minimum

Axles-front; minimum 4300#, Rear; minimum 11,000#

Battery-Minimum 12 volt negative ground with 630 CCA at 0 degrees F and a reserved capacity of 115 minimum at 80F. It shall be located under Chassis hood.

Brakes:

Front brakes to be minimum 12.5" rotor disc and the rear brakes a minimum 13" x 3.5" drum. Brake system to hydraulic with a hydro-boost and rear wheel anti-lock system. The park brake shall be a cable type to rear wheels and foot operated. Four wheel antilock brakes.

Cooling System:

Requested manufactured chassis supplied radiator shall be provided. Also included shall be chassis manufacturer heaviest transmission and engine oil coolers.

Electrical System:

12 volt system

Engine:

5.7 Litre minimum, Gasoline powered, or V-8 diesel powered.

Fuel Tank:

Minimum 55 gallon and must be mounted between the frame rails rear of rear axle.

Gauges:

To include high beams indicator, speedometer, fuel, engine temperature, voltmeter, oil pressure, odometer and trip odometer.

Glass:

Chassis supplied glass must have standard tint.

GVWR:

Maximum rating shall be 12,000 lbs.

Horns:

Dual electric will be provided.

Model:

Shall be manufacturer's commercial type cutaway van chassis. It must include all heavy duty school bus chassis equipment package. Model to be TG 31803 (GM codes B3D &ZW1)

Shock Absorbers:

Heavy duty front and rear.

Springs:

Minimum front springs to be 4,000lbs. and minimum rear spring to 10,000 lbs.

Steering:

To be power assisted.

Transmission:

Automatic, four speed with overdrive.

Tires:

Minimum LT225/75R 16 D rating. Total of 6 - dual rear.

Wheels:

Minimum 8 holes disc 16.5 x 6.75. Wheels must be painted black.

Wheelbase:

Minimum 159"

Miscellaneous:

Driveshaft guard must be included.

Rear tow hooks.

Full feature Digital security camera and recorder with speedometer.