

Conventional Base Specifications

Specifications	Conventional
Air Cleaner/Filter	Heavy duty type air filter with side hood entry to include pre-cleaner.
Air Compressor	13.2 CFM minimum output, gear driven.
Air Dryer	Bendix AD-9 or equivalent.
Air Tanks	Automatic heated drain valves on wet tank; manual drain valve on remaining tanks.
Alternator	Minimum high output 200 amp. Alternator to be belt driven. Regulator to be built in type.
Assist Rail	There will be stainless steel assist rails at the entrance door and one each side.
Axles	54 and 66 passenger minimum 10,000 lb. front axle with wet oil seal and 19,000 lb. rear axle, axle set to maximum speed of 65 mph.
Axles	72 passenger minimum 10,000 lb. front axle with wet oil seal and 21,000 lb. rear axle, axle set to maximum speed of 65 mph.
Axles	78 passenger minimum 10,000 lb. front axle with wet oil seal and 23,000 lb. rear axle, axle set to maximum speed of 65 mph.
Back Up Alarm And Sticker	To provide audible warning that the bus is in reverse gear at a 97 decibel level.
Batteries	Three 31 955 CCA Group 31 top post battery. Each 12 volt maintenance free type, 2850 CCA minimum with disconnect switch. Batteries to be mounted on roller bearing slide out tray. Include battery cut off switch.
Brakes, Air	Full air cam type, 2 reservoirs, pressure gauge, audible low pressure warning. Rear with manual type 30 chamber. Air lines of nylon or equal. Brake Linings and Drums to be 15 in.x4 in. front, 16 1/2x7 in. rear.
Brakes, Parking	Piggy back, spring set type with air backup system.
Bumpers	Pressed steel channel at least 3/16 inch thick and 8 inches high, wrapped around bus and extended forward 12 inches from rear most point of body at floor line. Front and rear bumpers shall be painted glossy black.
Buzzers	Emergency doors, lift door (if applicable), and window buzzers.
Color	Exterior will be National School Bus Yellow. This paint will be a baked on high solids polyurethane. Trim including guardrails and door handles will be black. Interior will be baked on enamel.
Coolant Recovery	Radiator for optimum engine and transmission cooling. Must include a means for visual or electronic checking of coolant level without removing tank cap or releasing pressure from cooling system.
Defogger Fans/Defrosters	Two 6 inch 2 speed defogger fans, in addition to defrosters utilizing hot air from bus heaters. Defroster will be sufficient capacity to keep windshield clear of fog, snow, and ice.
Delivery	Normal delivery upon manufacturers receipt of purchase order.
Doghouse	Chassis shall include heat and noise insulation inside bus covering dash panel (firewall) area at least down to the point that body connects including engine cover (doghouse), which may be insulated on interior or exterior.
Door, Entrance	Air operated, split-type opening outward. The lower and upper panels shall be of safety glass. Service door shall have a minimum horizontal opening of 24 inches and a vertical opening of 76 inches with pad above door.
Driveshaft Guards & Shields	Drive shaft to be a minimum of four inches (4) diameter and dynamically balanced. Metal guards.
Electrical	Circuit breakers. Switches are rocker type. To include one 12 volt power plug. Complete wiring diagram is to be furnished.
Emergency Exits	Two Transpec Triple Value 1175 roof hatches with buzzer. Center Rear emergency door with buzzer of clear tempered glass. Two Emergency windows per side. Buzzer attached to both sides of ignition switch.
Engine	Diesel engine to be minimum of 220 horsepower with 520 ft. lbs. of torque. List available sizes including HP and torque in pricing section.
Paneling, Exterior	Roof panels will be one piece side to side, secured to body bow frame. All roof sheets will be sealed to prevent leaks. Exterior side panels will be galvanized steel applied to body bow frames.
Floor	Floor to be gray heavy duty rubber or equal. Each side of the center aisle to be bound with aluminum trim. Body equipped with an access opening through the floor to service the fuel gauge.

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Front Bulkhead Compartment	Largest overhead compartment available, door will be hinged at top.
Fuel Tank	Minimum 60 gallon tank to be mounted between frame rails. Heater fuel/water separator with inspection plate to be included.
Gauges	Speedometer with odometer, tachometer, oil pressure, water temperature, fuel, voltmeter, hour meter, trip meter and high exhaust system temperature warning must be included.
Grab Rail At Entrance	A suitable stainless steel grab rail shall be provided at front entrance on both sides securely mounted inside body close to bottom step for small children to reach.
Guard Rail	Minimum of 4 guard rails will be supplied. Side rails to allow for moisture drainage. All guard rails to be painted black.
Hand Throttle	Electronic RPM control.
Headroom	Interior height to be 78 inches with 12 inch windows. All interior ceiling panels to have lapped and hemmed edges.
Heater Block, Internal	Block heater with outside receptacle mounted on a minimum of 9 amp draw, 750 minimum watt. Receptacle to be mounted by front bumper.
Heaters	One heat control valve and one shut off valve in driver area. Two electric defroster fans. Total BTU 180,000 minimum. Heat pump installed as standard equipment. One stepwell heater, one mid heater and one rear heater.
Hood	To be equipped with easy opening fiberglass tilt hood, maximum 15-25 pound pull.
Hoses	Shall be heavy duty rubber with standard clamps.
Ignition Switch	Two (2) sets of keys to be included.
Insulation	Roof and side walls shall be fully insulated with a blanket premium type polyester insulation including body bow cavities to deaden sounds, reduce vibration, and provide a thermal barrier.
Lettering	Numbers in four locations. Reflective lettering to be 5 or 6 inch. Reflective package to include 2 in. tape below beltline on both sides, 1 in. tape outlining rear, lettering front and rear, and 1 in. outlining all exits.
Light, Strobe	5 1/2 inch strobe light is required with brush guard.
Lights	All exterior lights shall be manufacturers standard and conform to Indiana School Bus Safety Committee specifications.
Line-Set Ticket	Manufacturer shall include with delivery of vehicle a line-set ticket that will reflect all chassis components, GAWR for both front and rear axles and GVWR. Web based is acceptable.
Mirrors	Exterior Roscoe breakaway style heated remote controlled rearview mirrors. Exterior heated, two fender mounted, tripod mount breakaway cross view mirrors. 6 inch x 30 inch interior mirror.
Miscellaneous	1 gallon washer fluid reservoir, winter front, heated wiper blades, daytime running lights.
Mounting	Bus body will be mounted to chassis frame in such a manner as to prevent shifting as per manufacturers standards.
Mud Flaps/Tow Hooks	Front and rear rubber mud flaps. Rear rubber fenderettes. Rear tow hooks to be included.
Noise Reduction System	Acoustical headliner full length of bus. Included 1/2 inch sound abatement package in floor and firewall.
Outside Luggage Storage	Maximum available.
Paint & Finish	Yellow polyurethane exterior, black chassis, white roof, black wheels.
Paneling, Exterior	Sheet metal skin forming exterior surface of body, 20-gauge steel minimum thickness and be attached to bow frames and strainers to act as an integral part of structural frame.
Paneling, Interior	Interior body lined with securely fastened panels, covered joints, no sharp edges, molding securely fastened. Interior paneled areas immediately below window line shall be galvanized embossed steel, aluminum in color.
Radio	AM/FM/CD/Clock to include a minimum of six interior speakers.
Reflectors	2 amber reflectors on each side of bus near the front and 2 red on rear side panels, 2 red on rear panels, and 2 amber intermediate on sides.
Roof Vent, Static	Manufacturer Standard.

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Rub Rails	Four applied rub rails including snow rails to be one piece. one below side windows, one at passenger level, one near floor line, and one at bottom of skirt to be properly secured.
Safety Equipment	To include 5 lb. rechargeable fire extinguisher, 24 unit first aid kit, triangle reflector kit, seat belt cutter and body fluid treatment kit.
Seat, Driver	Deluxe high back, six way adjustable seat with fabric inset will be furnished for the driver. It will provide lumbar support air suspension driver seat.
Seat, Passenger	39 inch reinforced seat frames, ability of future attachment of one seat belt per passenger, 42 oz. vinyl. Two barriers included with kick panel below right side barrier. Minimum knee room of 24 inches, color to be manufacturer standard.
Shock Absorbers	Front and rear, heavy duty double acting, piston type that are adequate size and axle load for the axle capacity.
Steering	Tilt heavyduty power steering including cruise control.
Stepwell	Three step entrance constructed of non corrosive steel, screws and bolts, not be more than 15 inches or less than 13 inches from ground, to include at least one light. covered with rubberized flooring step tread to match floor color and include white nosing.
Stop Arm Signal	Air, constructed of metal ribbed or reinforced panel, equipped with wind guard and two alternating red flashing lights. Single mounted in front portion of vehicle.
Student Reminder System	Triggered by warning lights.
Sun Visor	Visor to be 6 inches x 30 inches dark acrylic and fully adjustable.
Suspension	Front suspension 10,000 lb. taper leaf spring. Rear air ride suspension 21,000 lb.
Tires/Wheels	Michelin radial tubeless tires, 11R 22.5, 14 ply rating (16 ply if 78 passenger or greater), 8.25 inch X 22.5 inch 10 hole hub piloted steel disc wheels with mud and snow tires on rear.
Transmission	PTS2500 including Tran Synd fluid.
Undercoating	Underbody and firewall to be fully insulated and undercoated with rust proofing compound, including the battery compartment.
Vandalocks	Vandalocks on entrance door and rear emergency doors.
Warranty	Attach manufacturer standard on all bus components.
Wheel Housing	18 gauge or heavier steel, rigidly reinforced and attached to the floor and side panels.
Wheelbase	To be compatible with size of bus.
Windows	Two piece side windows will be tempered safety glass. Window stop decals installed with instructions Do Not Lower Below Lines. Tinted side and rear windows 28% to 31% tint. Window side sashes to be manufacturer standard.
Windshield	Windshield will be slanted to reduce glare, breakage, provide maximum vision and include tinted band at top.
Windshield Steps	Two folding steps will be attached for cleaning the windshield and lights one each side.
Windshield Washer	Dual electric wet arm type with minimum capacity of one gallon. Reservoir to be full upon delivery and protected to 20°F below zero.
Wipers	Wipers to be heavy duty, 2 speed, intermittent type electrically driven. Wipers shall be wet arm type. Wiper motor will be accessible for service under engine hood.