

Product Category	Bus: Front Engine Transit	
Category Description	Base Spec and Description	Option
Chassis Options		
AIR CLEANER (ENGINE)	Heavy-duty dry type throw away air filter.	
AIR TANKS	None. If air brakes added automatic heated drain valve on wet tank.	
	Manual drain all tanks, pull cord	C1070
ALTERNATOR	Standard shall be minimum high output 200-amp. Alternator to be belt driven. Regulator to be built in type.	
	240 amp alternator	C1200
	300 amp minimum alternator	C1220
AXLE, FRONT: MINIMUM LOAD	By capacity. Axle ratings: = 13,200 lbs;	
	14,600 lbs.	C1260
AXLE, REAR: MINIMUM LOAD	Axle rating 23,000 lbs; single speed axle set to maximum speed of 65 mph.	
	19,800 or 20, 000 lbs.	C1330
	21,000 lbs.	C1340
AXLE, REAR GEAR DIFFERENTIAL	Manufacturer Standard - contact dealer for options.	
BATTERIES	Shall comply with National Standard Shall be on ball bearing roll out tray if mounted outside engine compartment.	
	Three 12v, 650 CCA	C1380
	Two 8d, 12-volt, 1400-CCA each	C1390
	Three 12-volt, min. 1000-CCA each	C1410
BATTERY CUT OFF SWITCH	Shall be included	
	Delete cut off switch	C1420
BRAKES, ABS, HYDRAULIC DISC FRONT AND REAR	Standard-Must meet Section 257.1813 of Section 13 of PA187 of 1990. ABS to meet FMVSS #121.	
BRAKES, AIR	None	
	Add optional Air Brakes-Shall comply with National Standard and will include full air system, AD9 Air dryer, cam type, 2 reservoirs, pressure gauge, audible low pressure warning device. Brake linings and drums to be outboard mounted for easy replacement. All air lines are to be color coded for ease of identification and service. The air lines shall be made of nylon or equal to withstand vibration. Warning lights and buzzers for air pressure added to instrumentation. Brakes must meet FMVSS #121.	C1450
	Electronic Stability for Air Brakes	C1455
	Electronic Stability for Hydraulic Brakes	C1456
BRAKE LININGS AND DRUMS	None	
	option for 6" front and 7" rear	C1460
	option for 5" front and 7" rear	C1470
BRAKES, MERITOR BRAKE SHOE		
	Option for Platinum Shield Meritor brake shoe	C1510
BRAKES, AIR DUST SHIELDS	None	
	Add dust shields to brakes	C1520
BRAKES, PARKING	Manufacturer Standard	
	Warning signal for when parking brake is not set when ignition is turned off	C1530
BRAKES, SLACK ADJUSTERS	Manufacturer standard	
	Meritor Slack Adjusters	C1540
	Haldex slack adjusters	C1550

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	Long stroke slack adjusters	C1560
BRAKES, TRACTION CONTROL	None	
	For air brakes	C1570
	For hydraulic brakes	C1580
BUMPER, FRONT	Shall comply with National Standards. Bumper shall be painted black.	
	Add 6 in. yellow numbers on bumper (state qty)	C1590
CHASSIS	Manufacturer Standard	
CIRCUIT BREAKERS	Required-shall comply with National Standards	
COOLANT FILTER	None	
	Add Coolant Filter	C1600
COOLANT RECOVERY (ENGINE)	Must include some means for visual or electronic checking of coolant level without removing tank cap or releasing pressure from cooling system. All hoses shall be heavy duty rubber material. Diesel engine radiator assembly shall be heavy duty with extra duty top and bottom tanks. Thermostatically controlled fan required. Cooling system shall be maximum capacity available. Fluid should be long life with protection to 25 below.	
	Coolant, extended life with protection to -40 F	C1610
CRUISE CONTROL	Required	
	Delete cruise control	C1620
CUP HOLDER, DRIVER	None	
	Add cup holder in drivers area	C1640
CLIPBOARD HOLDER	None	
	Add clipboard holder in drivers area	C1650
DOGHOUSE	Fiberglass, hinged cutaway with heat and sound insulation, engine noise not to exceed 82 decibels in driver compartment. See Insulation Section.	
DRIVESHAFT GUARDS & SHIELDS	Shall comply with National Standards.	
ENGINE	Standard shall be Diesel, 200 hp minimum, 520 torque rating, in-line 6 cylinder, turbo, electronically controlled. Engine shall have an electronic controlled or fast idle switch. Engine shall have OEM standard warranty including components. Must meet current EPA specs.	
	Cum. Inline 6, ISB 200HP/520 ftlbs/6.7L	C1840
	Cum. Inline 6 ISB 220HP/520 ftlbs/6.7L	C1860
	Cum. Inline 6 ISB 240HP/560 ftlbs/6.7L	C1870
	Cum. Inline 6 ISB 250HP/660 ftlbs/6.7L	C1890
	Cum. Inline 6 ISB 260HP/660 ftlbs/6.7L	C1900
	Cum. Inline 6 ISB 280HP/660 ftlbs/6.7L	C1910
ENGINE/EXHAUST BRAKE	None - contact dealer for price and availability	
ENGINE WARRANTY	Engine shall have OEM standard including	
ENGINE SOUND DEADENING PACKAGE	Required in engine compartment, hood and	
	Additional insulation for engine compartment area	C2330
EXHAUST SYSTEM	Must exit at rear bumper.	
	Option for exhaust to come through bumper	C2350
FAN DRIVE	Manufacturer standard	
	Electromagnetic fan drive	C2355
FIRE SUPPRESSION SYSTEM	None - Engine Compartment	

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	DRY CHEMICAL SYSTEM - to be located in the engine compartment and be automatically activated when the fire detector has sensed a fire in the engine compartment. The system must also include a mechanism for activation by the driver. Include a lamp or buzzer to alert the driver when the system has been activated.	C2360
	WATER/FOAM SYSTEM - to be located in the engine compartment and be automatically activated when the fire detector has sensed a fire in the engine compartment. The system must also include a mechanism for activation by the driver. Include a lamp or buzzer to alert the driver when the system has been activated.	C2365
FRAME SIDE MEMBERS	Must comply with National Standards	
FUEL TANK	Minimum 60-gallon capacity for gas and diesel. Propane shall be OEM. Must comply with National Standards.	
	Increase diesel tank to 100-gallon	C2380
	Increase gas tank to 100-gallon	C2390
FUEL TANK SIDE MOUNTED	Between rails-must comply with National Standards	
FUEL/WATER SEPARATOR (ENGINE)	Heated, must be compatible with chassis/engine application. 1. Must be completely accessible for servicing. 2. Must have clear drain sight bowl	
FULL INSTRUMENTATION PACKAGE (ENGINE)	Shall comply with National Standards and all gauges shall be in English-no Metric. Key type starter and engine stop switch.	
	Remove ammeter	C2430
FOG LIGHTS	None	
	Add fog lights	C2440
HEADLIGHTS	Shall comply with National Standards. Daytime running lamps (DRL) shall be provided.	
	Add Wig Wag flashing headlights	C2450
HEADLIGHT ALARM	None	
	Alarm to warn that headlights are on at ignition	C2460
HEATER BLOCK, INTERNAL (ENGINE)	Block heater with outside receptacle mounted on a minimum of 9 amp draw, 750 minimum watt. Receptacle to be mounted by front bumper.	
HORNS	Shall comply with National Standards.	
	Horn mounted under body with separate switch	C2530
HOSES (ENGINE)	Shall comply with National Standard and SAE J20C.	
	Premium hose upgrade	C2540
HOSE CLAMPS	Manufacturers Standard	
	Constant torque clamps	C2570
IGNITION SWITCH (ENGINE)	Controlled running and shutdown shall require electrical current provided by the ignition switch in ON, RUN and ACCESSORY positions	
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	
PAINT & FINISH, EXTERIOR	Chassis shall be painted black-Follow National Standard-Chassis does not include hood. See Body Options for additional information	
	Additional after factory undercoating	C2610
PAINT, WHEELS	All wheels shall be finish painted black.	
PEDALS, ADJUSTABLE	None	

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	Adjustable brake & accelerator pedals	C2660
RADIATOR, SWING OUT	None	
	Add swing out radiator	C2670
RIMS	Disc wheels, 22.5 x8.25 10 stud, hub piloted.	
RUST PROOFING	Underbody and firewall to be fully insulated and undercoated with rust proofing compound, including the battery compartment.	
SHOCK ABSORBERS	Front and rear, heavy-duty double-acting, piston type that are adequate size and axle load for the axle capacity.	
STEERING	Factory installed heavy-duty power steering. Wheel to tilt & telescope.	
	Delete Telescoping	C2700
SUSPENSION, AXLE FRONT	Shall comply with National Standards.	
	Add front air ride	C2900
SUSPENSION, AXLE REAR	Shall comply with National Standards.	
	Add air-ride suspension rear	C2920
	Add air-ride suspension rear without air source	C2930
SWITCHES, IGNITION	Manufacturer Standard	
	Keyed alike	C3010
TIRE CHAINS	None - contact dealer for price and availability	
TIRE & RIM, SPARE	Standard is no Spare Tire or Rim	
	Add Steering Tire	C3031
	Add Mud/Snow Tire	C3032
	Add Rim	C3033
	Add Steering Tire with Rim	C3034
	Add Mud/Snow Tire with Rim	C3035
TIRES, TUBELESS RADIAL	Standard Tire shall be 11R22.5 16-Ply Radial Tire and comply with National Standards and FMVSS #120. Front shall be Steering Tread and Back shall be Mud/Snow Tread.	
	10R22.5 14 ply steer front, mud/snow rear	C3100
	11R22.5 14 ply steer front/rear	C3140
	11R22.5 14 ply steer front, mud/snow rear	C3180
	11R22.5 16 ply steer front/rear	C3220
	255/70R22.5 16 Ply steer front/rear	C3370
	295/80R22.5 16 ply steer front, mud/snow rear	C3560
TOW HOOKS	2 mounted to front and rear of frame	
TRANSMISSION, AUTOMATIC	PTS2500 shall comply with National Standards. PTS2500 5-speed is standard specification.	
	Upgrade to 6 speed PTS2500 transmission	C3600
	Upgrade to 5-speed PTS3000 transmission	C3605
	Upgrade to 6 speed PTS3000 transmission	C3610
TRANSMISSION, OIL	Allison approved synthetic fluid	
TRANSMISSION, WARRANTY	7 Year Unlimited Warranty	
TRANSMISSION SWITCH FOR PERFORMANCE MODE	None	
	Add switch for economy/performance mode	C3650
TURN SIGNALS	Shall comply with National Standards and FMVSS #108. ICC hazard warning switch shall be provided	
WARRANTY	Provide Manufacturer Standard	
WHEELBASE, GVWR	To be compatible with size of bus.	
WINTER WARMUP EQUIPMENT	Manufacturer Standard	
	Winter front	C3810
BUG SCREEN	None	
	Bug Screen	C3840

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WIRING	Shall comply with National Standards. The wiring shall be arranged in circuits, as required, with each circuit protected by a fuse breaker or electronic protection device. See also Electrical Wiring	
OPTIONAL OR EXTENDED WARRANTY	Dealer Negotiated	
Body Options		
ACCESS/FRONT BULKHEAD COMPARTMENT	Largest overhead compartment access door available.	
AIR CONDITIONING	None; When choosing air conditioning it may not be compatible with other options and it must be verified with vendor.	
	Minimum 120,000 BTU	B1110
	Minimum 130,000 BTU	B1120
	Minimum 180,000 BTU	B1130
AIR CONDITIONING. DUCT	None	
	Add duct for air conditioning	B1340
AIR CONDITIONING. IN WALL SYSTEM	None	
	Add in wall recessed system	B1350
AIR CONDITIONING. ROOF TOP CONDENSER	None	
	Add roof top condenser for air conditioning	B1360
AIR FOIL, REAR	None	
	Add rear air foil	B1390
AISLE STRIPS	Aluminum aisle strips	
	Stainless steel	B1410
	Vinyl	B1430
	Deduct aisle strips	B1440
BACK UP ALARM AND STICKER	Shall comply with National Standards.	
BATTERY SLIDE OUT TRAY	Roller type tray	
	Upgrade to stainless steel	B1500
BODY DATA PLATE	Will be mounted in a clearly visible location inside body stating seating capacity, year manufactured, etc.	
BODY MOUNTING	Per manufacturers standards and shall comply with National Standards.	
BUMPER, REAR	Shall comply with National Standards and shall be painted glossy black matching National Standard #595A - Color 17038.	
BUS LOCK UP SYSTEM	Standard is No Locks for any door.	
	All doors with air front door	B1570
	All doors with electric front door	B1590
	All door locks with manual door	B1610
BODY LOCKS KEYED ALIKE	Manufacturers Standard	
	Body locks keyed alike (state quantity)	B1650
BUZZERS/AUDIBLE SIGNAL/ALARMS	Shall comply with National Standards. See Doors and Windows sections for additional information.	
CROSSING GATE ARM	None	
	air crossing gate arm	B1800
	electric crossing gate arm	B1810
CROSSING GATE ARM INTERRUPT SWITCH	None	
	Add crossing gate arm interrupt switch	B1840
DEFOGGER FANS	2 6-inch defogger fans, in addition to defrosters utilizing hot air from bus heaters, shall be installed. Must be 2-speed.	
	Increase from 2 to 3. May interfere with overhead storage if chosen	B1910

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DELIVERY, EXTENDED	Normal delivery upon manufacturers receipt of purchase order. For other delivery options contact dealer	
DOOR, ENTRANCE	Front entrance door shall be electric 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 to prevent head injuries and shall meet National Standards.	
	Air, double out, split type	B1970
	Manual, double out, split type. Specifications for manually operated options shall be: Double bearing mechanical control shall be mounted within comfortable reach of the driver and meet State and National Standards.	B1990
DOOR, ENTRANCE, EXTERIOR DOOR HANDLE	None	
	Add door handle to exterior of entrance door	B2010
DOOR ENTRANCE SWITCH	OEM standard-electric operated door	
	3 position switch mounted left of driver	B2020
	3 position switch mounted right of driver	B2030
DOOR GREASABLE STRAP HINGES	None	
	Add greasable rear strap hinges	B2040
ELECTRICAL EQUIPMENT & WIRING	Must meet SAE and National Standards. Shall be inside body channel readily accessible through removeable panels. All harnesses and wiring shall be protected from wall metal structure. All bodies shall be equipped with an electrical curcuit master switch and will cut body circuits "ON" and "OFF" by means of a master switch solenoid controlled by the ignition switch (mounted in electrical compartment for aftermarket components only), controlled by ignition switch. See Wiring for additional information	
EXIT, EMERGENCY DOOR	All emergency exits shall conform to FMVSS #217 and all applicable State and Federal laws.	
EXIT, EMERGENCY DOOR, GLASS GUARD		
	Add glass guard on lower section of rear emergency door	B2155
EXIT, EMERGENCY WINDOW	All emergency exits shall conform to FMVSS #217 and all applicable State and Federal Laws.	
	Increase from 1 per side to 2 per side	B2170
	Increase from 2 per side to 3 per side	B2180
EXIT, ROOF HATCH	All emergency exits shall conform to FMVSS #217 and all applicable State and Federal Laws.	
	Transpec (state qty)	B2250
	Specialty low profile (state qty)	B2300
EXIT, ROOF HATCH, POWER VENT	None	
	Power vent for front or rear (state quantity)	B2310
ROOF VENT, STATIC FENDERETTES	Manufacturer Standard	
	None	
	Rubber fenderettes	B2350
FLOOR COVERING	Shall comply with National Standards	
	Colored floor and step treads. Please notify and verify availability of color of choice.	B2510

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FLOOR: SUBFLOOR PLYWOOD	Floor shall be 5/8" exterior grade treated plywood	
	Remove Plywood Floor	B2520
	5/8 inch marine grade plywood subfloor	B2530
FLOOR: SUBFLOOR JOINTS SEALED	Base Spec: None	
	All subfloor joints water proof sealed	B2550
FLOOR COVERING ONE PIECE	See floor covering spec	
FUEL FILLER DOOR	Fuel filler door with latch standard	
	Lock on door	B2720
GLASS ENTRANCE DOOR	Safety glass upper and lower; shall comply with National Standards and FMVSS	
GRAB RAIL AT ENTRANCE	Stainless steel grab rail shall be provided at front entrance on left side securely mounted inside	
	Add right side grab rail.	B2750
HEADROOM	Shall comply with National Standards	
HEAT, BASEBOARD	None. Contact dealer for options	
HEATER/DEFROSTERS	Heating System - Shall be in accordance with National Standards for Type D School Bus Bodies. Heater cores shall be heavy duty/extreme service type incorporating brass tube and fin construction with a recirculating filter system. Total system min. capacity shall be 250,000 B.T.U. and must include heater for driver compartment. Right hand dash heater at entrance door with defroster for windshield and upper and lower door glass including stepwell shall have a minimum capacity of 90,000 B.T.U. Electrically operated, water pump shall be included in the heating system. Underseat heaters: Mid mounted to be 50,000 BTU and rear to be 80,000 BTU. All exterior heater hoses and lines must be insulated. Heaters shall be equipped with bleeder valves located and easily accessible from either the inside or the outside of the school bus body. Coolant lines shall be either metal or rubber or a combination of both. All interior heater hoses and lines must be metal covered. Contact dealer for optional booster pumps pricing and availability	
HEATER, INCREASE MID HEATER	None	
	Increase mid heater from 50k to 80k BTU	B2890
HEATER, WALL MOUNTED	None	
	Add wall mounted heater (state quantity)	B2920
HEATER, CONTROL VALVE	Base spec: required in drivers area	
HEATER, ADDITIONAL REAR	Base Spec: One	
	Add additional 80,000 BTU rear heater (state quantity)	B2940
HEATER, AUXILIARY FUEL-FIRED	None	
	ProHeat X45 w/quartz timer, 45,000 BTU in extra compartment.	B2950
	Webasto D5LC w/quartz timer, 45,000 BTU in extra compartment.	B2960
	Webasto, 17,000 BTU, 7 day quartz timer; not in enclosed box	B2970
	Add Espar auxiliary heating system	B2975
HEATER, EXTRA COMPARTMENT	Included when auxiliary heater added	
	Extra compartment only; no heater	B2990

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HEATER, TIMER	Included when auxiliary heater added	
	Delete timer	B3000
HEATER, HOSES	Heater hoses shall be heavy duty and comply with National Standards. Contact dealer for other options, pricing, and availability.	
HEATER HOSE CLAMPS	Shall comply with National Standards.	
	Change to constant torque clamps	B3060
INSULATION	Shall comply with National Standards. Roof and side walls shall be fully insulated including body bow cavities. Each bidder shall supply complete information on insulation. Premium type of insulation with the body will be considered standard. Noise package should be a separate line item.	
LETTERING, IDENTIFICATION, & TRIM	Must meet State and National Standards. Lettering specifics provided by each school district. Reflective markings: must be reflective tape as follows: 1" tape outlining all exits. Each bus shall be numbered with numbers assigned by the school district and made of vinyl type. Numbers will be four locations where numbers will be placed (front, sides and rear) All lettering shall be 6". Reflective package: 2" tape below beltline on both sides, 1" tape completely outlining rear of bus from below cap to rear bumper, School Bus lettering front and rear.	
	3M tape	B3100
LETTERING; INTERIOR SEAT #'S	None	
	Add numbers for interior seats; 2" decal (state quantity)	B3120
LETTERING; ROOF TOP NUMBERS	None	
	Add 24 inch numbers (state qty of digits). Price is per digit	B3130
LICENSE PLATE HOLDER	Shall be on left rear outside of body with suitable method for mounting license plate	
LIGHT MONITOR, EXTERIOR LIGHTS	None	
	Light monitor system LED	B3290
	Light monitor system not LED	B3300
LIGHT, LANDING	Next to entrance door, outside skirt mounted	
	Delete landing light	B3310
	Change to LED type light	B3320
LIGHT, LED STEPWELL LAMP	None	
	Add LED stepwell lamp	B3360
LIGHT, STROBE	Strobe light is required. Shall comply with State and National Standards.	
	Add Brush guard	B3430
LIGHTS	Lighting system shall be Weldon 7000 transistorized flasher OR EQUAL OR MULTIPLEX control units and shall include turn signals, stop lights, marker lights, stepwell lights, parking lights, landing light, interior lights, and eight (8) light warning system. Rear directional signal, side directionals, stop lights, and back-up lights in addition to the regular stop lamps. All exterior lights shall be bulb and conform to National Standards. (8 way lights include 3" black band around)	

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	Change 8 way to strobing LED	B3460
	Change the tail, brake, turn and backups to LED style lamps	B3470
	Change 8 way, tail, brake, back up and turn to LED style lamps	B3480
LIGHTS, CLEARANCE	Manufacturers standard clearance lights and must meet State and National Standards.	
LIGHT, EMERGENCY DOOR	None	
	Add Red ICC light over emergency door (state Quantity)	B3520
LIGHTS, INTERIOR	One switch to operate dome light over drivers compartment, one switch for dome lights in mid-section of bus, and one switch to operate the last two dome lights in the rear of the bus. The landing light shall be activated when the door opening mechanism is initiated.	
	LED Dome lights	B3530
	Add maximum dome lights	B3560
	Add maximum led dome lights	B3570
LIGHTS; INTERIOR DRIVER DOME	Included	
LIGHTS TAIL TURN FLUSH MOUNT		
	Stop tail 4" flush mount LED	B3600
	Stop tail 4" flush mount incandescent	B3610
LIGHT VISORS	None	
	Individual visors for warning lights in lieu of visors that cover amber and red lights.	B3620
	Dual light visors for warning lights	B3630
LOCKS, DOOR	Standard	
	Delete	B3635
MIRROR SYSTEM	None	
	Add wide angle reflective lens for rear window	B3640
MIRRORS, CROSSOVER	Shall come equipped with two convex elliptical cross-view mirrors mounted on front of vehicle. Shall be heated.	
	Add round, heated	B3705
	Add half moon, heated	B3710
MIRRORS, SIDE	Body shall be equipped with two split - style-type side-view mirrors supported from top or bottom. Shall be heated. Contact dealer for options and pricing.	
	remote, heated	B3940
MIRRORS BRACKETS	Shall comply with National Standards.	
	Stainless steel brackets for crossover & side rearview mirrors	B3970
MIRROR, SIDE BREAKAWAY	None	
	Add breakaway fixtures	B3980
MIRROR, TIMER	None	
	Timer for heated mirror	B3990
MIRROR, INSIDE REAR-VIEW	One 6in x 30in shall be provided	
	10 in x 30 in inside rear-view mirror	B4000
MUD FLAPS	2 front and two rear attached appropriately and made of rubber material.	
MUD FLAPS FULL WIDTH	Standard rear mud flaps	
NOISE REDUCTION SYSTEM	Acoustical headliner full length of bus. Include 1/2" sound abatement package in floor and firewall	
	For driver area only	B4060
	Delete full acoustic entire bus	B4080

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NOISE REDUCTION FIREWALL	Included	
OUTSIDE LUGGAGE STORAGE	Maximum available. If the outside luggage is deleted the body side skirts between the front and rear axles shall extend down to within two inches plus or minus, of the horizontal line from the center of the front spindle to the center of the rear axle. The manufacturer may offer optional side skirt lengths that extend lower than this requirement. This measurement shall apply to a new unloaded school bus located on a flat, level surface. See also Panels, Exterior	
	Delete outside luggage storage	B4100
	Delete right side luggage storage	B4110
	Delete left side luggage storage	B4120
	Shock - two per door	B4125
OUTSIDE LUGGAGE; ACCESSORIES	None - Locks on compartment shall be standard	
	Add lights in storage units	B4130
PAINT & FINISH	Body shall be painted with polyurethane and according to specifications as set forth by the National Standards, which shall include all words, letters and numbers to meet those specifications.	
PAINT HOOD	Not Applicable	
PAINT, ROOF	Roof shall be NSBY yellow.	
	Add painted white roof	B4210
PANELING, EXTERIOR	Side skirts between the front and rear axles shall extend down to within two inches plus or minus of the horizontal line from the center of the front spindle to the center of the rear axle on new unloaded bus on flat, level surface. Side skirt length may extend lower than this requirement. See also Outside Luggage Storage. Exterior paneling includes sheet metal skin forming exterior surface of body and shall be 20-gauge steel minimum thickness and be attached to bow frames and strainers to act as an integral part of structural frame.	
	Optional 16 ga. exterior metal	B4250
PANELING, EXTERIOR REEDED	None	
	Add reeded sides	B4270
PANELING, INTERIOR	Interior body shall be lined with panels securely fastened to adjoining parts. All joints are to be covered. No sharp edges will be left; molding shall be securely fastened so dirt will not readily work under it. Interior paneled areas immediately below window line shall be galvanized embossed steel, aluminum in color. Exposed edges shall be beaded, hemmed, flanged, or treated to eliminate sharp edges.	
PANEL, SHOULDER PAD	None	
	Full bus length	B4310
POWER SOURCE	None	
	12-volt in driver area	B4350

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RADIO SYSTEM	Each school bus body shall be equipped with an AM/FM/CD/ PA Stereo Radio with Public Address (P/A) System with an adequate number of stereo speakers spaced evenly throughout the bus body interior. The P/A Address System shall be designed to function and operate - when keyed by handheld microphone with the interior mounted stereo radio speakers.	
	Downgrade to PA only	B4520
	Downgrade AM/FM, PA, radio with MP3 input	B4530
	Downgrade AM/FM radio, CD	B4540
RADIO SYS. WITH EXT. PA & SPEAKER	None	
	Add exterior speaker	B4560
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- Shall comply with FMVSS	
RUB RAILS	4 applied rub rails painted black including snow rails to be 1 piece. 1 below side windows, 1 at passenger level, 1 near floor line, and 1 at bottom of skirt to be properly secured	
RUST PROOFING	Must be fully rust proofed including battery compartment, State Manufacturer Standard	
SAFETY EQUIPMENT	Per KAR (Kansas Administrative Regulation) 91-38-2. (1) Each school bus shall contain the following emergency supplies: (A) At least one 2A-10BC fire extinguisher; (B) at least one readily identifiable first aid kit in a removable, waterproof, and dustproof container; (C) at least one readily identifiable body fluid clean-up kit, in a removable, water proof, and dustproof container; (D) a minimum of three reflectorized triangle warning devices, securely stored but in an accessible location. (E) a minimum of one emergency seat belt cutter./ durable webbing cutter having a full widthhandgrip and a protected, replaceable or non-corrodible blade. The required webbing cutter shall be mounted in a location accessible to the seated driver in an easily detachable manner(2) The first aid kit, body fluid clean-up kit, and fire extinguisher shall be mounted in full view of, and readily accessible to, the driver.	
	Move to overhead storage (off floor)	B4750
SEAT, DRIVER	The manufacturer's deluxe high back seat with fabric inset will be furnished for the driver. It shall be an 6-way adjustable seat with lumbar support driver seat. Seat belts for drivers with adjustable type shoulder harness are required.	
	National air seat with air brakes	B4780
	National air seat with 2 shocks and air brakes	B4790
	National air seat with hydraulic brakes	B4800
	National air seat with integrated seat belt	B4810
	National seat with mechanical suspension	B4820

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	National seat with box pedestal	B4830
SEAT, DRIVER, NATIONAL HEATED		
	Heated National driver seat	B4900
SEAT, DRIVER; ARM REST	Included stationary or moving left side armrest for OEM seat only	
	Add Right arm rest	B4930
SEAT, DRIVER; SEAT BELT	Seat belts for drivers with adjustable type shoulder harness are required.	
	Add Orange seat belt	B4950
SEAT, DRIVER; SEAT BELT MONITOR	None	
	Add seat belt monitor	B4960
SEAT BARRIERS	Shall be equipped with the appropriate seat barriers to comply with the National Standards and FMVSS 222.	
SEATS, PASSENGER. NOTE: The school bus will be equipped with seats. The following are options.	Seats shall be supported with two-legged seat rail mounted inside the body. Padding for seats shall be as specified in National Standards Seats must meet National Standards. Minimum knee room spacing between the seats shall be 24". Fire block 42 oz. upholstery. DOT 45" high back seat.	
SEATS, FIRE BLOCK	Required	
SEATS, PASSENGER: COLOR	Shall comply with National Standards.	
	Color other than manufacturer standard. Please notify and verify availability of color of choice.	B5090
SEATS, DEDUCT FOR SEATS REMOVED	None	
	Deduct for base bid bench seats. Check with dealer for exact quantity.	B5100
SEATS 30 INCH BENCH SEAT; FLOOR MOUNT		
	30 inch floor mounted seat (state quantity)	B5110
SEATS 30 INCH BENCH SEAT; TRACK MOUNT		
	30 inch track mounted seat (state quantity)	B5120
SEATS 36 INCH BENCH SEAT; FLOOR MOUNT		
	36 inch floor mounted seat (state quantity)	B5130
SEATS 36 INCH BENCH SEAT; TRACK MOUNT		
	36 inch track mounted seat (state quantity)	B5140
SEATS 39 INCH BENCH SEAT; FLOOR MOUNT		
	39 inch floor mounted seat (state quantity)	B5150
SEATS 39 INCH BENCH SEAT; TRACK MOUNT		
	39 inch track mounted seat (state quantity)	B5160
SEAT BELT - Lap belts shall not be installed on passenger seats in large school buses (over 10,000 pounds GVWR) except in conjunction with child safety restraint systems that comply with the requirements of FMVSS No. 213, Child Restraint Systems.	None	
SEATS 30" BENCH; FL MOUNT; INTERCHANGABLE BACK		
	30" floor mounted seat w/interchangable back (state quantity)	B5180
SEATS 36" BENCH; FL MOUNT; INTERCHANGABLE BACK		
	36" floor mounted seat w/interchangable back (state quantity)	B5200
SEATS 39" BENCH; FL MOUNT; INTERCHANGABLE BACK		
	39" floor mounted seat w/interchangable back (state quantity)	B5220
SEATS, CHILD INT. 30 " FLOOR MOUNT - comes with 2 integrated child seats.		

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	30 inch seat (state quantity)	B5240
SEATS, CHILD INT. 39 " FLOOR MOUNT - comes with 2 integrated child seats.		
	39 inch seat (state quantity)	B5250
SEATS, CHILD INT. 30" TRACK MOUNT - comes with 2 integrated child seats.		
	30 inch seat (state quantity)	B5270
SEATS, CHILD INT. 39" TRACK MOUNT - comes with 2 integrated child seats.		
	39 inch seat (state quantity)	B5290
SEATS, 3 POINT, 30" FLOOR MOUNT - includes 2 point lap/shoulder belt		
	30 inch seat (state quantity)	B5430
SEATS, 3 POINT, 36" FLOOR MOUNT - includes 2 point lap/shoulder belt		
	36 inch seat (state quantity)	B5440
SEATS, 3 POINT, 39" FLOOR MOUNT - includes 3 point lap/shoulder belt.		
	39 inch seat (state quantity)	B5450
SEATS, 3 POINT, 30" TRACK MOUNT - includes 2 point lap/shoulder belt.		
	30 inch seat (state quantity)	B5460
SEATS, 3 POINT, 36" TRACK MOUNT - includes 2 point lap/shoulder belt X		
	36 inch seat (state quantity)	B5470
SEATS, 3 POINT, 39" TRACK MOUNT - includes 3 point lap/shoulder belt		
	39 inch seat (state quantity)	B5480
SEATS, CHILD INT. 3 POINT, 30" FLOOR MOUNT		
	30 inch seat (state quantity)	B5610
SEATS, CHILD INT. 3 POINT, 30" TRACK MOUNT		
	30 inch seat (state quantity)	B5620
SEATS, CHILD INT. 3 POINT, 36" FLOOR MOUNT		
	36 inch seat (state quantity)	B5630
SEATS, CHILD INT. 3 POINT, 36" TRACK MOUNT		
	36 inch seat (state quantity)	B5640
SEATS, CHILD INT. 3 POINT, 39" FLOOR MOUNT		
	39 inch seat (state quantity)	B5650
SEATS, CHILD INT. 3 POINT, 39" TRACK MOUNT		
	39 inch seat (state quantity)	B5660
STORAGE POUCH KICK PANEL BARRIER	None (located behind driver on barrier)	
	Single pouch barrier	B5750
	Two pouch barrier	B5760
	Five pouch barrier	B5770
KICK PANEL	One on right side	
	Add additional left side front	B5780
STEPWELL	Stepwell shall be of non - corrosive steel, all screws and bolts shall be non corrosive steel, and shall meet National Standards. It shall contain at least one light. Step shall be covered with rubberized flooring step tread.	
	Upgrade to stainless steel	B5800
	Marr Proof step risers	B5810
STEPWELL, TREAD -	Manufacturers standard to match floor color.	
	Add heated step with ambient switch	B5820
	Add pebble tread	B5840
	Add both pebble tread and heated step with ambient switch.	B5850
STEPWELL, GUARD		
	Add Stepwell guard	B5870

Product Category	Bus: Front Engine Transit	
STOP ARM SIGNAL	Single electric incandescent arm shall be considered standard equipment. Stop arm shall be constructed of metal ribbed or reinforced panel; such stop arm shall include wind guard and be equipped with two alternating red flashing lights. Stop arm shall meet National Standards and FMVSS #131.	
	Air LED	B5880
	Air LED strobing	B5890
	Air incandescent	B5900
	Electric LED cluster	B5910
	Electric LED strobing	B5920
	Electric LED on STOP	B5930
REAR STOP ARM SIGNAL OPTIONS	None	
	Air incandescent	B5940
	Air LED	B5950
	Air LED strobing	B5960
	Electric incandescent	B5970
	Electric LED cluster	B5980
	Electric LED strobing	B5990
	Electric LED on STOP	B6000
STORAGE COMPARTMENT DRIVER CONSOLE	Required left hand console	
	Delete storage compartment driver area	B6010
	Lockable	B6020
STORAGE COMPARTMENT DRIVER ABOVE DRIVER	None	
	Add storage compartment above driver window	B6030
STUDENT REMINDER SYSTEM	Included. Manufacturer Standard to be triggered by warning lights	
	Delete Student Reminder System	B6080
STUDENT REMINDER ACTIVATION		
	To be armed by ignition.	B6110
	To be armed by other methods	B6120
SUNSHADE/SUNSHIELD	Shall comply with National Standards	
	Left side drivers window shade	B6140
VENTILATION	Shall comply with National Standards	
WHEEL HOUSING	Shall be constructed of 18 gauge or heavier steel and be rigidly reinforced and be attached to the floor and side panels in such a manner as to prevent water or dust from entering the bus interior and shall be designed for easy removal of tires	
WINDOW, REAR	Manufacturer Standard	
	Tempered, Clear	B6260
	Laminated, tinted	B6270
WINDOWS	Windows shall be single pane split type construction safety glass to set in aluminum or steel frame. Emergency windows shall meet state specifications and National Rule 217. Windshield, service and emerg doors, side and rear windows may be equipped with max integral tinting allowed by fed, state, or ANSI standards for respective locations, except that windows rear of drivers compartment, if tinted, shall have approx 28% light transmission. Inside windows shall have marks indicating the half way point.	
	Laminated, tinted	B6320
	Laminated, clear	B6330
WINDOW LINES		
	Remove window lines	B6340

Product Category	Bus: Front Engine Transit	
WINDOW, SIDE SASHES	Shall comply with National Standards.	
	Painted window side sashes black	B6380
WINDOW; PILASTERS		
	Paint pilasters black	B6390
WINDSHIELD	The largest windshield furnished by each body company shall be considered as standard equipment. This is to be a one piece to four piece windshield with shaded band at the top.	
	2-piece curved	B6410
WINDSHIELD WASHER	Windshield washer electrically operated and water reservoir of at least one gallon shall be included as standard equipment. Reservoir shall be full upon delivery to owner and protected to 20°F below zero.	
WIPER BLADES	Wipers shall be heavy duty, 2 speed, intermittent type electrically driven. There shall be one wiper for each side of windshield. Windshield wiper control per manufacturer. Wipers shall be wet arm type. Wipers shall comply with FMVSS #104	
WHEELCHAIR ENTRY	None; If selected option the lift shall be a Braun and include a lift door, lift required lights and brake/lift interlocks to meet National Standards. Includes the deduct for the 2 seats in the lift area.	
	Midship lift door w/Braun. If selected option shall include a lift door, lift required lights and brake/lift interlocks to meet National Standards. Should also include the deduct for the 2 seats in the lift area.	B6550
	Rear lift door w/Braun. If selected option shall include a lift door, lift required lights and brake/lift interlocks to meet National Standards. Should also include the deduct for the 2 seats in the lift area.	B6590
LIFT DOOR	Shall comply with National Standards.	
	Lock on lift door	B6650
EXTERIOR LIFT LIGHTS	Shall comply with National Standards	
	Additional Exterior lift lights	B6660
INTERIOR LIFT LIGHTS	Shall comply with National Standards	
	Additional interior lift lights	B6670
FLAT FLOOR PACKAGE (NO SECUREMENTS)	None; If selected to include all body and chassis equipment needed for flat floor. Contact Dealer before selecting this option.	
	Add flat floor package. If selected to include all body and chassis equipment needed for flat floor.	B6690
FLOOR TRACKING SYSTEM (NO SECUREMENTS)	None	
	4 floor rows/1 row over window/L-track. Includes 4 floor rows, 1 row over windows, L-track. State quantity of wheelchair placements. SecUREMENTS or seats not included. When choosing floor tracking systems, you will need to deduct seats. Deduct approximately 2 seats per wheelchair station. Check with dealer for exact number.	B6710

Product Category	Bus: Front Engine Transit	
WHEELCHAIR SECUREMENTS (L-TRACK)	None	
	Sure-Lok 700 Series Kit (Includes 4 Retractors and Occupant Restraint System). State quantity of wheel chair stations For use w/L-Track. This option requires an in-floor track system. See option B6710	B6800
	Sure-Lok 800 Series Kit (Includes 4 Retractors and Occupant Restraint System) for use with WC 19 wheel chairs. State quantity of wheel chair stations. For use w/L-Track. This option requires an in-floor track system. See option B6710	B6810
	Q-Straint QRT Deluxe Kit (Includes 4 Retractors and Occupant Restraint System). State quantity of wheel chair stations. For use w/L-Track. See option B6710	B6840
	Q-Straint QRT 360 Kit (Includes 4 Retractors and Occupant Restraint System) for use with WC 19 wheel chairs. State quantity of wheel chair stations For use w/L-Track. This option requires an in-floor track system. See option B6710	B6850
WHEELCHAIR LOCATION	None	
	Dedicated wheel chair locations (qty). No seats, seat tracks or secUREMENTS included.	B6860
WHEELCHAIR SEC. STORAGE POUCH	A mounted storage device for the Wheelchair Tie Down & Occupant Restraint System (WTORS) SHALL BE PROVIDED for each wheel chair position. Storage device shall comply with National Standards.	
EVAC-AID	None	
	Add evac-aid fire blankets (quantity)	B6950
FIRE BLANKET	None	
	Add fire blankets (state quantity)	B6960
PREWIRE FOR SECURITY & GPS SYSTEMS	None	
	Prewire for security & GPS systems. Wiring to include for battery power, ground & ignition connections	B7000
	Prewire for security & GPS systems to include Connector Assembly, CPC 19 PIN Receptacle. Must also include power, ground & ignition connections	B7010
RADIO 2-WAY	None. Contact dealer for options	
PREWIRE FOR 2-WAY RADIO	None	
	Prewire for 2-way radio. Wiring to include for battery power, ground & ignition connections	B7030
SURVEILLANCE CAMERA SYSTEM	None included but optional systems must include event marker. Contact Dealer for hardware availability and pricing if Camera System is desired. Pricing for labor and pre-wire is listed below.	
	Labor to install single camera system	B7710
	Labor to install dual camera system	B7720
	Labor to install three-camera system	B7730
	Labor to install four-camera system	B7740
MULTIFUNCTION BUS OPTION	None	

Product Category	Bus: Front Engine Transit	
	Change bus to Activity Bus. To include all changes needed to convert bus into a white colored multi-function activity school bus, removes 8-way lamps, stop arm and yellow reflective is replaced with white reflective.	B8000
ACTIVITY BUS COLOR OPTION	White	
	Custom Color Solid	B8050
ACTIVITY BUS RUB RAIL COLOR	White-only if custom bus color selected	
	Contrasting Color (quantity of rails). Select number of rails to have painted contrasting color	B8100
GRAPHIC PACKAGE	None. Contact dealer for options	
WHITE LETTERING & TRIM	None	
	Upgrade white reflective package to sides & rear of unit for activity buses only.	B8190
SEATING; ACTIVITY PASSENGER	None	
	Activity seats (state quantity). Manufacturer standard vinyl fireblock high back split seat. Must not recline.	B8200
	Freedman seating (state quantity). Activity high back vinyl fireblock seats. Must not recline.	B8205
	3-point activity seats. (state quantity)	B8210
	Freedman seating. 3-point. (state quantity)	B8215
SEATING; ACTIVITY PASSENGER UPHOLSTERY	Vinyl fireblock	
SEATING PASSENGER ARMREST	None	
	Add armrest (qty)	B8250
STORAGE, OVERHEAD (INTERIOR LUGGAGE RACK)	None included. If selected, must be enclosed to meet national standards.	
	Add interior overhead storage	B8340