

Product Category		Bus: Rear Engine Transit	
Category Description	Base Spec and Description	Option	
Chassis Options			
AIR CLEANER (ENGINE)	Heavy-duty dry type throw away air filter.		
AIR COMPRESSOR	Dual air flow with 13.2 CFM minimum, gear driven. Two (2) dual chambers (4) chambers air reservoirs with drains. The total reservoir capacity should be approximately 6470 cu.in. One (1) air reservoir is to be designed entirely for air operated accessories.		
AIR DRYER	Bendix AD-9		
	Bendix AD-IP dryer w/spin-on filter	C1050	
AIR TANKS	Automatic heated drain valves on wet tank.		
	Manual drain all tanks, pull cord	C1070	
	Manual drain all tanks, petcocks	C1100	
ALTERNATOR	Standard shall be minimum high output 200-amp. Alternator to be belt driven. Regulator to be built in type.		
	240 amp alternator	C1200	
	270 amp alternator	C1210	
	300 amp minimum alternator	C1220	
AXLE, FRONT: MINIMUM LOAD	By capacity. Axle ratings: = 13,200 lbs;		
	12,000 lbs.	C1240	
	14,000 lbs	C1250	
	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 group 31, 12 volt 2280 CCA	C1370	
	Three 12v 650 CCA	C1380	
	Two 8d, 12-volt, 1400-CCA each	C1390	
	Three 12-volt, min. 925-CCA each	C1400	
BATTERY CUT OFF SWITCH	Shall be included		
	Delete cut off switch	C1420	
BRAKES, ABS, HYDRAULIC DISC FRONT AND REAR	None		
BRAKES, AIR	Standard-Must meet FMVSS #121.		
	Electronic Stability for Air Brakes	C1455	
	Electronic Stability for Hydraulic Brakes	C1456	
BRAKE LININGS AND DRUMS	16 1/2 in x 6" in front, 16 1/2 in x 8" in rear		
	option for 6" front and 7" rear	C1460	
	option for 5" front and 7" rear	C1470	
BRAKES, AIR DISC			
BRAKES, AIR - COLLISION MITIGATION SYSTEM			
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	Piggy-back, spring-set type with air back-up system.		

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		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
		Long stroke slack adjusters	C1560
BRAKES, TRACTION CONTROL		None	
		For air brakes	C1570
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	
COOLANT RECOVERY (ENGINE)		Cooling system shall be approximately 50 quart capacity heavy duty radiator with filter of the highest quality available with expansion tank. Coolant provided shall be Fleetguard ES complete extended life to 25 40 degrees below zero. Thermostatically controlled fan required. Must include some means for visual or electronic checking of coolant level without removing the tank cap or releasing pressure from cooling system. All hoses shall be heavy duty rubber material.	
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
DRIVESHAFT GUARDS & SHIELDS		Shall comply with National Standards.	
ENGINE		Diesel Engine shall be in line six cylinder electronic rear engine producing 245 horsepower minimum at 660 torque rating. Engine shall be turbo-charged after-cooled. Engine shall have an electronic controlled or fast idle switch. Engine shall have OEM standard warranty including components. Must meet current EPA specs.	
		Detroit Diesel	C1690
		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
		Cum. Inline 6 ISB 300HP/660 ftlbs/6.7L	C1920
		Cum. Inline 6 L9 260HP/720 ftlbs/8.9L	C1930
		Cum. Inline 6 L9 270HP/800 ftlbs/8.9L	C1940
		Cum. Inline 6 L9 300HP/860 ftlbs/8.9L	C1950
ENGINE/EXHAUST BRAKE		None - contact dealer for price and availability	

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ENGINE WARRANTY		Engine shall have OEM standard including components. Manufacturer shall provide written documentation of warranty program. Engine warranty pricing shall be listed on the help page in dealer clarifications.	
ENGINE SOUND DEADENING PACKAGE		Required in engine compartment. Rear decking should be covered with insulation and equivalent flooring material and incorporate rear row of seats with center divider to prevent aisle seating.	
		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	
FIRE SUPPRESSION SYSTEM		None - Engine Compartment	
		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 TANK; PROPANE			
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 with drain valve to allow detection and draining of water to be visually and electronically monitored.	
FULL INSTRUMENTATION PACKAGE (ENGINE)		Shall comply with National Standards and all gauges shall be in English-no Metric.	
		Remove ammeter	C2430
VOLTMETER IN REAR		None	
		Add voltmeter in rear compartment	C2440

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	Add coolant temp. oil pressure, voltage, ammeter in engine compartment.	C2450	
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.		
	Rear receptacle instead of front	C2490	
HORNS	Shall comply with National Standards.		
	Air Horn mounted under body with separate switch	C2530	
HOSES (ENGINE)	Shall comply with National Standard and SAE J20C.		
	Premium hose upgrade	C2540	
HOSE CLAMPS	Constant torque clamps manufacturer standard		
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		
	Adjustable brake & accelerator pedals	C2660	
RADIATOR, SWING OUT			
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	Integral full power with a tilt/telescoping steering column and padded wheel.		
	Delete Telescoping	C2700	
SUSPENSION, AXLE FRONT	Shall comply with National Standards.		
	Add front air ride	C2900	

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SUSPENSION, AXLE REAR	Shall comply with National Standards.		
	Add air-ride suspension rear		C2920
SWITCHES, IGNITION	Manufacturer Standard		
	Keyed alike		C3010
TIRE CHAINS	None - contact dealer for price and availability		
TIRE & RIM, SPARE	None. Must be dealer negotiated		
	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.		
	11R22.5 16 ply steer front/rear		C3220
	255/70R22.5 16 ply steer front/rear		C3380
	285/80R22.5 16 ply steer front, mud/snow rear		C3510
TOW HOOKS	2 mounted to front and rear of frame		
TOW BAR	None		
	Add tow bar		C3590
TRANSMISSION, AUTOMATIC	PTS3000 Shall comply with National Standards. PTS3000 5-speed is standard specification.		
	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		
SHUTTERS			
BUG SCREEN			
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		
	Delete Access Compartment		B1010
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		B11110
	Minimum 130,000 BTU		B1120
	Minimum 180,000 BTU		B1130

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AIR CONDITIONING. DUCT	None	
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 COND. FRONT OR REAR MOUNT		
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
	Rear Emergency window lock only	B1620
	Side Emergency door lock (state qty)	B1630
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
DELIVERY, EXTENDED	Normal delivery upon manufacturers receipt of purchase order. For other delivery options contact dealer	

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DOOR, ENTRANCE		Front entrance door shall be 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 to prevent head injuries and shall meet National Standards.	
		Electric, double out, split type	B1980
DOOR, ENTRANCE, DRYER		None	
		Ambient air dryer for air door	B2000
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 side strap hinges (state qty)	B2050
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, FLIP SEAT LEFT SIDE		Included	
		Delete flip seat	B2110
EXIT, EMERGENCY DOOR, RIGHT SIDE		None	
		24 inch door opening,	B2120
EXIT, EMERGENCY DOOR, FLIP SEAT RIGHT SIDE		None	
		Add right side flip seat	B2140
EXIT, EMERGENCY DOOR, BARRIERS		None	
		Add barriers (state quantity)	B2150
EXIT, EMERGENCY DOOR, GLASS GUARD			
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		Manufacturer Standard	

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ROOF VENT, POWER		None	
FENDERETTES		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
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	
		Black, one piece no seams	B2600
		Gray; one piece no seams	B2610
		Other colors; one piece no seams	B2620
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 body close to bottom step for small children to reach and shall be designed to eliminate possibility of students clothing or personal items to become lodged or stuck upon exiting the bus	
		Add right side grab rail.	B2750
HEADROOM		Shall comply with National Standards	
HEAT, BASEBOARD		None. Contact dealer for options	
HEATER/DEFROSTERS		Heaters are to be located as follows: one at the rear of bus and one in front of bus which shall contain separate defrosting unit; one stepwell heater. Such defrosting units shall have a capacity sufficient to keep entrance door, windshield and window at left of driver clear at all times while bus is in operation. Shall be designed to keep ice from forming on stepwell. All heaters shall have a filter. All heaters are to have one heat control valve in driver area and a shut off valve in driver compartment. Total BTU 240,000 minimum. Heat pump shall be installed as standard equipment. 90,000 BTU front heater, 50,000 BTU front heater in section 2 or 3, 50,000 BTU mid mounted heater, and one 50,000 BTU rear heater mounted behind rear wheelhouse. If equipped with 2 rear heaters-shall provide even heat in rear of bus. (this may vary on lift buses, to meet floor plans). Contact dealer for optional booster pumps pricing and availability	
HEATER, INCREASE MID HEATER		None	

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		Increase mid heater from 50k to 80k BTU	B2890
HEATER, WALL MOUNTED		None	
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
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
		Reflexite Brand tape	B3110
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

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		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)	
		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.	
		Add armored marker	B3490
		Change to LED style	B3500
		Add armored marker and add LED style	B3510
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	
		Delete drivers dome	B3580
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	

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	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		
	8 in x 30 inside rear-view mirror		B3995
	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		
	Delete full acoustic entire bus		B4080
NOISE REDUCTION FIREWALL	Included		
	Delete sound abatement to floor of firewall		B4090
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
	Option for non pass through storage		B4105
	Shock - 2 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		

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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
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
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	

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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 mechanical suspension driver seat. Seat belts for drivers with adjustable type shoulder harness are required.	
		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
		National seat with box pedestal	B4830
		Magnum air seat with air brakes	B4880
		Magnum seat with mechanical suspension	B4890
SEAT, DRIVER, NATIONAL HEATED		Heated National driver seat	B4900
SEAT, DRIVER; ARM REST		Included stationary or moving left side armrest for OEM seat only	
		Delete left arm rest	B4920
		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

Product Category		Bus: Rear Engine Transit	
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. Minimum knee room spacing between the seats shall be 24". Fire block 42 oz. upholstery. DOT 45" high back seat.	
SEATS, FIRE BLOCK		Required	
		Upgrade to Prevail fire block	B5060
		Upgrade to Kevlar fire block	B5070
		Upgrade to ProForm fire block	B5080
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.			
		30 inch seat (state quantity)	B5240
SEATS, CHILD INT. 39 " FLOOR MOUNT - comes with 2 integrated child seats.			
		39 inch seat (state quantity)	B5250

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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 2 heated steps with ambient switch	B5830
	Add pebble tread	B5840
	Add both pebble tread and heated step with ambient switch.	B5850
	Add 2 steps with both pebble tread and heated step with ambient switch.	B5860
STEPWELL, GUARD		

Product Category		Bus: Rear Engine Transit	
	Add Stepwell guard		B5870
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, STORM SASH, PASSENGER			
WINDOW, REAR	Manufacturer Standard		
	Tempered, Clear		B6260
	Laminated, tinted		B6270

Product Category		Bus: Rear Engine Transit	
WINDOWS		<p>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.</p>	
		Remove tint	B6310
		Laminated, tinted	B6320
		Laminated, clear	B6330
WINDOW LINES			
		Remove window lines	B6340
WINDOW, SIDE SASHES		Shall comply with National Standards.	
		Painted window side sashes black	B6380
WINDOW; PILASTERS			
		Paint pilasters black	B6390
WINDSHIELD		<p>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.</p>	
		2-piece curved	B6410
WINDSHIELD WASHER		<p>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.</p>	
WIPER BLADES		<p>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</p>	
WHEELCHAIR ENTRY		<p>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.</p>	
		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

Product Category		Bus: Rear Engine Transit	
WHEELCHAIR ENTRY ALT. BRANDS		None; If selected option the lift shall 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.	
		Change to Ricon brand lift	B6640
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
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
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

Product Category		Bus: Rear Engine Transit	
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		
	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		
	Cloth upholstery (qty) Only available for Activity Bus	B8220	
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	