

Prepared For:
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Reference ID: Flex Chassis



Diamond SPEC™

Presented By:
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Model Profile

2009 Diamond SPEC™ 7400 SFA 6X4 (SF525)

APPLICATION:	Septic Pumper
MISSION:	Requested GVWR: 56000. Calc. GVWR: 56000 Calc. Start / Grade Ability: 17.00% / 1.35% @ 55 MPH Calc. Geared Speed: 84.1 MPH
FUEL ECONOMY:	7.51 MPG @ 55 MPH
DIMENSION:	Wheelbase: 266.00, CA: 191.00, Axle to Frame: 91.00
ENGINE, DIESEL:	{International MaxxForce DT} 300 HP, 860 lb-ft Torque @ 1400 RPM, 2400 RPM Governed Speed, # 2 Bell Housing
TRANSMISSION, AUTOMATIC:	{Allison 3000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Dana Spicer I-160W} Wide Track, I-Beam Type, 16,000-lb Capacity
AXLE, REAR, TANDEM:	{Dana Spicer DS405/RS405} Single Reduction 40,000-lb Capacity; With 200 Wheel Ends Gear Ratio: 5.29
CAB:	Conventional
TIRE, FRONT:	(2) 315/80R22.5 XZY-3 (MICHELIN) 486 rev/mile, load range L, 20 ply
TIRE, REAR:	(8) 11R22.5 XDE M/S (MICHELIN) 498 rev/mile, load range G, 14 ply
SUSPENSION, REAR, TANDEM:	{Hendrickson HMX-400-54} Walking Beam Type 54" Axle Spacing; 40,000-lb Capacity, With Rubber End Bushings, Transverse Torque Rods, Less Shock Absorbers
FRAME REINFORCEMENT:	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
PAINT:	Cab schematic 100GM Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>
SF52500	Base Chassis, Model 7400 SFA 6X4 with 266.00 Wheelbase, 191.00 CA, and 91.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Inside Rail, Frame Mounted.
1572	TOW HOOK, REAR (2)
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
1LLA	BUMPER, FRONT Steel, Swept Back <u>Includes</u> : BUMPER, FRONT Powder Coated Gray (Argent) Color
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille
1WDU	CROSSMEMBER, FRONT for Hydraulic Pump, Mounting Flange to Accommodate Pump
1WGC	WHEELBASE RANGE 228" (580cm) Through and Including 270" (685cm)
2AEU	AXLE, FRONT NON-DRIVING {Dana Spicer I-160W} Wide Track, I-Beam Type, 16,000-lb Capacity
3ACP	SUSPENSION, FRONT, SPRING Multileaf, Shackle Type; 16,000-lb Capacity; Less Shock Absorbers
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications <u>Includes</u> : BRAKE CHAMBERS, SPRING (4) Rear Parking : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE VALVE Color-Coded Yellow Knob, Located on Instrument Panel : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : SPRING BRAKE MODULATOR VALVE
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Chambers
4732	DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) With Automatic Traction Control
4EBS	AIR DRYER {Bendix AD-9} With Heater
4NCE	BRAKES, REAR, AIR CAM 16.5" x 7.0"; Includes MGM TR3030 Long Stroke Brake Chamber and Heavy Duty Spring Actuated Parking Brake <u>Includes</u> : BRAKE CHAMBERS, SPRING Inverted with ALL "Walking Beam" type Suspensions, Located on Rear Rear Axle
4SBC	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity
5710	STEERING COLUMN Tilting and Telescoping
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black
5PTB	STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power

<u>Code</u>	<u>Description</u>
6DDA	DRIVESHAFT SYSTEM {Dana Spicer} SPL170XL with SPL170XL Inneraxle Shaft in lieu of 1710 Driveshaft with 1710 Inneraxle Shaft
7BDL	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Outside Right Rail Under Cab; Includes Vertical Tail Pipe and Guard
7SCB	ENGINE BRAKE, DLOGIC {Diamond Logic} for MaxxForte DT Engines; Combination Engine and Exhaust Brake, Electronically Activated
7WAZ	TAIL PIPE (1) Turnback Type, Non-Bright Finish, for Single Exhaust
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment
	<u>Includes</u>
	: BATTERY BOX Steel with Fiberglass Cover; Mounted Right Side, Back of Cab
	: DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
	: FUSES, ELECTRICAL SAE Blade-Type
	: HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
	: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
	: HEADLIGHTS (2) Sealed Beam Halogen, 5" X 7" Rectangular, with Chrome Plated Bezels
	: HORN, ELECTRIC Single
	: JUMP START STUD Located on Positive Terminal of Outermost Battery
	: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
	: RUNNING LIGHT (2) Daytime, Included With Headlights
	: STARTER SWITCH Electric, Key Operated
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
	: TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
	: WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup
8GEJ	ALTERNATOR {Leece-Neville 8LHP2172VAH} Brush Type; 12 Volt 110 Amp. Capacity, Pad Mounted
8HAB	BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8NBR	BATTERY SYSTEM {JCI} Maintenance-Free (3) 12-Volt 2100CCA Total
8REY	RADIO {Panasonic CQR-111} AM/FM, With Cassette Player, Includes Multiple Dual Cone Speakers
	<u>Includes</u>
	: SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior
	: SPEAKERS IN CAB (4) Coaxial with Premium Interior
8THB	BACK-UP ALARM Electric, 102 dBA
8WBW	JUMP START STUD Remote Mounted
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WPP	ENGINE SHUTDOWN Automatic; With 30 Second Delay, With International Engines
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm
8WYE	STARTING MOTOR {Leece-Neville M130D} 12 Volt; Less Thermal Over-Crank Protection

<u>Code</u>	<u>Description</u>
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
9HAN	INSULATION, UNDER HOOD for Sound Abatement
9HBM	GRILLE Stationary, Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 Emissions
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100
	<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GM"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
11001	CLUTCH Omit Item (Clutch & Control)
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted
12959	BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt
	<u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door
12NSH	ENGINE, DIESEL {International MaxxForce DT} 300 HP, 860 lb-ft Torque @ 1400 RPM, 2400 RPM Governed Speed, # 2 Bell Housing
	<u>Includes</u> : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FUEL FILTER Included with Fuel/Water Separator : FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted : GOVERNOR Electronic : OIL FILTER, ENGINE Spin-On Type : WET TYPE CYLINDER SLEEVES
12THT	FAN DRIVE {Horton Drivemaster} "Two Speed" Direct Drive, With Residual Torque Device for Disengaged Fan Speed
	<u>Includes</u> : FAN Nylon : FAN Optimized Position
12UWY	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core and 1167 SqIn Charge Air Cooler
	<u>Includes</u> : ANTI-FREEZE Red Shell Rotella Extended Life Coolant -40F (-40C) : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Mubea Constant Tension Clamps : RADIATOR HOSES Premium, Rubber
12UXV	FEDERAL EMISSIONS for 2004; for International VT365, DT466 and DT570 Engines
12VBB	AIR CLEANER Dual Element
	<u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

<u>Code</u>	<u>Description</u>
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12VYX	FEDERAL EMISSIONS 2007 for International MaxxFace DT Engines (DT466)
12VZA	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for International post 2007 Emissions Electronic Engines
12WBR	FAN OVERRIDE Manual; With Electric Switch on Instrument Panel, (Fan On With Switch On)
12WYS	EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap
12WZC	EMISSION COMPLIANCE Tamper-Proof Engine Shutdown System, Complies With California Clean Air Regulations
13AJH	TRANSMISSION, AUTOMATIC {Allison 3000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
13WBL	TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction
14GEP	AXLE, REAR, TANDEM {Dana Spicer DS405/RS405} Single Reduction 40,000-lb Capacity; With 200 Wheel Ends . Gear Ratio: 5.29
	<u>Includes</u> : POWER DIVIDER LOCK Electric over Air Operated, Cab Control with Indicator Light : REAR AXLE DRAIN PLUG (2) Magnetic, For Tandem Rear Axle
14ULX	SUSPENSION, REAR, TANDEM {Hendrickson HMX-400-54} Walking Beam Type 54" Axle Spacing; 40,000-lb Capacity, With Rubber End Bushings, Transverse Torque Rods, Less Shock Absorbers
14WAK	SUSPENSION/REAR-AXLE IDENTITY for Dana Spicer Eaton Style Tandem Rear Axles With Bar-Pin Beam Attachment Type Suspensions
15SGD	FUEL TANK Top Draw; D Style, Non Polished Aluminum, 100 U.S. Gal., 378.5 L Capacity, 19.0" Tank Depth, Mounted Left Side Under Cab
16030	CAB Conventional
	<u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : CLEARANCE/MARKER LIGHTS (5) Flush Mounted : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : GRAB HANDLE, CAB INTERIOR (2) "B" Pillar Mounted, One Each Side : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (4) Two Steps Per Door
16HBA	GAUGE CLUSTER English With English Electronic Speedometer
	<u>Includes</u> : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout

<u>Code</u>	<u>Description</u>
	: WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
16HGH	GAUGE, OIL TEMP, ALLISON TRAN
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support
	<u>Includes</u>
	: SEAT BELT 3-Point, Lap and Shoulder Belt Type
16RPV	SEAT, PASSENGER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support
	<u>Includes</u>
	: SEAT BELT 3-Point, Lap and Shoulder Belt Type
16SDP	MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Side, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatic Controlled, Bright Finish Heads and Brackets
16SEE	GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar
16WBY	ARM REST, RIGHT, DRIVER SEAT
16WJT	INSTRUMENT PANEL Center Section, Ergonomic Panel
16WKB	AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster
	<u>Includes</u>
	: FRESH AIR FILTER
	: HEATER HOSES Premium
	: REFRIGERANT Hydrofluorocarbon HFC-134A
16WKY	FRESH AIR FILTER for HVAC
16WRZ	CAB INTERIOR TRIM Premium
	<u>Includes</u>
	: "A" PILLAR COVER Molded Plastic
	: CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat the Back Panel is Only Partially Covered and with a Full Bench Seat the
	: CAB SOUND INSULATION Dash and Engine Cover Insulators
	: CAB, INTERIOR TRIM, CLOSEOUT Lower Dash Closeout Panel; Molded Plastic; Under Instrument Panel Driver Side
	: CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets, CB Radio Pocket with Hold-Down, Compass/Temp Display, Auxiliary Visor, Reading Lights
	: COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side
	: DOOR TRIM PANELS with Cloth Insert on Bolster Driver and Passenger Doors
	: FLOOR COVERING Rubber, Black
	: HEADLINER Soft Padded Cloth
	: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section
	: STORAGE POCKET, DOOR (2) Molded Plastic (Carpet Texture), Full-Length; Driver and Passenger Doors
	: SUN VISOR (3) Padded Vinyl, 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side
16WSK	CAB REAR SUSPENSION Air Bag Type

<u>Code</u>	<u>Description</u>
27DMY	WHEELS, FRONT DISC; 22.5" Non-Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 9.00 DC Rims; With Steel Hubs <u>Includes</u> : WHEEL SEALS, FRONT Oil Lubricated, Includes Wheel Bearings
28DMB	WHEELS, REAR DUAL DISC; 22.5" Non-Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs <u>Includes</u> : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings
7402133217	(8) TIRE, REAR 11R22.5 XDE M/S (MICHELIN) 498 rev/mile, load range G, 14 ply
7652543208	(2) TIRE, FRONT 315/80R22.5 XZY-3 (MICHELIN) 486 rev/mile, load range L, 20 ply

Services Section :

40AMJ	WRTY,LTD, BASIC VEHICLE DSPEC {Diamond SPEC} To 12-Month/Unlimited Mileage; Includes Diamond Emergency Breakdown Service, With 90-Day Towing Raw Material Price Surcharge 7300/7400/7500
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