

**Prepared For:**  
Airwolf 09', 4-door, 750 water  
General Safety  
5181 260th St. Fallbrook  
Wyoming, MN 55092-  
(651)462 - 1000  
Reference ID: N/A



**Diamond SPEC™**

**Presented By:**  
CRAWFORD TRKS. & EQUIP.  
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ABERDEEN SD 57401 -  
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**Model Profile**

**2010 Diamond SPEC™ 7400 SFA 4X4 (SR525)**

<b>APPLICATION:</b>	Rescue
<b>MISSION:</b>	Requested GVWR: 37000. Calc. GVWR: 37000 Calc. Start / Grade Ability: 27.10% / 3.01% @ 55 MPH Calc. Geared Speed: 74.8 MPH
<b>FUEL ECONOMY:</b>	8.53 MPG @ 55 MPH
<b>DIMENSION:</b>	Wheelbase: 203.00, CA: 84.10, Axle to Frame: 75.00
<b>ENGINE, DIESEL:</b>	{International MaxxForce 9} 330 HP, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, # 2 Bell Housing
<b>TRANSMISSION, AUTOMATIC:</b>	{Allison 3000EVS_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A
<b>CLUTCH:</b>	Omit Item (Clutch & Control)
<b>AXLE, FRONT DRIVING:</b>	{Meritor MX-14-120} Single Reduction, 14,000-lb Capacity
<b>AXLE, REAR, SINGLE:</b>	{Meritor RS-23-160} Single Reduction, 23,000-lb Capacity Includes Driver Controlled Main Locking Differential and 200 Wheel Ends Gear Ratio: 4.89
<b>CAB:</b>	Conventional 6-Man Crew Cab
<b>TIRE, FRONT:</b>	(2) 12R22.5 G282 MSD (GOODYEAR) 481 rev/mile, load range H, 16 ply
<b>TIRE, REAR:</b>	(4) 12R22.5 G282 MSD (GOODYEAR) 481 rev/mile, load range H, 16 ply
<b>SUSPENSION, RR, SPRING, SINGLE:</b>	Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring
<b>PAINT:</b>	Cab schematic 100GM Location 1: 4039, Fire Yellow (Prem) Chassis schematic 932GM Wheel: 4039, Fire Yellow (Prem)

**Description**

Base Chassis, Model 7400 SFA 4X4 with 203.00 Wheelbase, 84.10 CA, and 75.00 Axle to Frame.

TOW HOOK, FRONT (2) Inside Rail, Frame Mounted.

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.433" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL

BUMPER, FRONT Full Width, Aerodynamic, Chrome Plated Steel; 0.189" Material Thickness

FRAME EXTENSION, FRONT Bolt On Type; 20" In Front of Grille, Without Crossmember

WHEELBASE RANGE 181" (460cm) Through and Including 205" (520cm)

AXLE, FRONT DRIVING {Meritor MX-14-120} Single Reduction, 14,000-lb Capacity

**Includes**

: DRAIN PLUG, DRIVING FRONT AXLE Magnetic

AXLE, FRONT DRIVING, LUBE {EmGard 75W-90} Synthetic Oil; 1 thru 29.99 Pints

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 14,000-lb Capacity; With Shock Absorbers

**Includes**

: SPRING PINS Rubber Bushings, Maintenance-Free

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

**Includes**

: BRAKE CHAMBERS, SPRING (2) 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 Controlled by Yellow Knob, Located on Instrument Panel

: SLACK ADJUSTERS, FRONT Automatic

: SLACK ADJUSTERS, REAR Automatic

: SPRING BRAKE MODULATOR VALVE

DRAIN VALVE, AUTOMATIC {Bendix DV-2} With Heater; for Air Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)

AIR DRYER {Bendix AD-IP} With Heater

BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. MGM Long Stroke Brake Chambers

BRAKES, REAR, AIR CAM 16.5" x 7.0"; Includes MGM TR3030 Long Stroke Brake Chamber and Heavy Duty Spring Actuated Parking Brake

AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM

STEERING COLUMN Tilting and Telescoping

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR {Sheppard M-110} Power

EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Outside Right Rail Under Cab; Includes Vertical Tail Pipe and Guard

EXHAUST BRAKE, DLOGIC {Diamond Logic} for MaxxFace 9 / DT570, MaxxFace 10 / HT570 Engines; Electronically Activated

TAIL PIPE (1) Turnback Type, Non-Bright Finish, for Single Exhaust

EXHAUST HEIGHT 11' 6"

**Description**

SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in ON Position

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

**Includes**

: 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

CIGAR LIGHTER Includes Ash Cup

HORN, ELECTRIC (2)

IGNITION SWITCH Keyless

POWER SOURCE Cigar Type Receptacle without Plug and Cord

ALTERNATOR {Leece-Neville 4949PA} Brush Type; 12 Volt 270 Amp. Capacity, Pad Mounted

BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total

JUMP START STUD Remote Mounted

HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail

BATTERY DISCONNECT SWITCH {Joseph Pollak 51-315} Positive Type, Lever Operated, Mounted on Cab Floor

SWITCH, AIR HORN, PASSENGER Fire Truck Application; Switch Located in Instrument Panel Close to Passenger, Driver Also To Activate Switch at Steering Wheel

HEADLIGHTS Long Life Halogen; for Two Light System

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses

FENDER EXTENSIONS Rubber

GRILLE Stationary, Chrome

GRILLE EMBER SCREEN Mounted to Grille to Keep Hot Embers out of Engine Air Intake System

FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 Emissions

PAINT SCHEMATIC, PT-1 Single Color, Design 100

**Description****Includes**

: PAINT SCHEMATIC ID LETTERS "GM"

PAINT IDENTITY, PT-2 Single Color, Instruction No. 932. Wheels

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

PAINT CLASS Premium Color.

KEYS,- ALL ALIKE, ID Z-001

CLUTCH Omit Item (Clutch & Control)

BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt

**Includes**

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

ENGINE, DIESEL {International MaxxForce 9} 330 HP, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, # 2 Bell Housing

**Includes**

: 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

FAN DRIVE {Horton Drivemaster} "Two Speed" Direct Drive, With Residual Torque Device for Disengaged Fan Speed

**Includes**

: FAN Nylon

: FAN Optimized Position

RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core With Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler

**Includes**

: ANTI-FREEZE Red Shell Rotella Extended Life Coolant -40F (-40C)

: DEAERATION SYSTEM with Surge Tank

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

: RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS for 2004; for International VT365, DT466 and DT570 Engines

AIR CLEANER Single Element

**Includes**

: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

OVER-TEMPERATURE PROTECTION (For Engine Coolant) Omit Item

THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel

FEDERAL EMISSIONS 2007 for International MaxxForce 9 & 10 Engines (DT570 & HT570)

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

ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use With Fire Trucks

**Description**

EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap

EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations

TRANSMISSION, AUTOMATIC {Allison 3000EVS\_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A

**Includes**

: OIL FILTER, TRANSMISSION Mounted on Transmission  
: TRANSMISSION OIL PAN Magnet in Oil Pan

TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, Without Provision for PTO, With Electric Over Air Control, With Lube Pump

**Includes**

: LIGHT, INDIC, ALL-WHEEL DRIVE Illuminates With All Wheel Drive Engaged, Located on Instrument Panel

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission

TRANSFER CASE LUBE {EmGard 50W} Synthetic; 1 thru 14.99 Pints

OIL COOLER, TRANSFER CASE Remote Mounted Back of Cab

SHIFT CONTROL PARAMETERS WT-Allison S-1 Performance Programming in Primary and Allison S-4 Economy Programming in Secondary

TRANSMISSION DIPSTICK Relocated to Right Side of Transmission

ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS); Rescue, Ambulance

AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity Includes Driver Controlled Main Locking Differential and 200 Wheel Ends . Gear Ratio: 4.89

**Includes**

: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring

FUEL/WATER SEPARATOR With Filter Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor

FUEL TANK Top Draw; D Style, Steel, 50 U.S. Gal., 189 L Capacity, With Quick Connect Outlet, 16" Tank Depth, Mounted Left Side Under Cab

CAB Conventional 6-Man Crew Cab

**Includes**

: 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) Front of "B" Pillar, One Each Side

: GRAB HANDLE, CAB INTERIOR (4) Two Each Side, Rear Door Mounted at Hinge Side and "C" Pillar Mounted

: INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color

: PLEASE NOTE: 43.9" CA Loss

: STEP (8) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer

**Includes**

**Description**

: 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

: WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 4 to 6 Seat Belts

GAUGE, OIL TEMP, ALLISON TRAN

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {Seats, Inc. Universal Series} 911, NFPA Compliant, Air Suspension, High Back Vinyl with Covered Back and International Logo on Head Rest

**Includes**

: SEAT BELT 3-Point, Lap and Shoulder Belt Type

SEAT, REAR {Seats, Inc. Universal Series} 911, NFPA Compliant, Three Individual Seats on one Riser, Non-Suspension, High Back for SCBA, Vinyl With Covered Back, International Logo on Headrest

**Includes**

: SEAT BELT (3) Two 3-Point Shoulder Belts for Driver and Outer Passenger and One 2-Point Lap Belt for Center Passenger

SEAT, PASSENGER {Seats, Inc. Universal Series} 911, NFPA Compliant, Non-Suspension, High Back for SCBA, With 5 Degree Back angle, Vinyl Covered Back, With Adjusters and International Logo on Headrest

**Includes**

: SEAT BELT 3-Point, Lap and Shoulder Belt Type

GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets

SEAT BELT All Red; 4 to 6

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator

INSTRUMENT PANEL Center Section, Flat Panel

AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster

**Includes**

: FRESH AIR FILTER

: HEATER HOSES Premium

: REFRIGERANT Hydrofluorocarbon HFC-134A

FRESH AIR FILTER for HVAC

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door

CAB INTERIOR TRIM Deluxe; for Crew Cab

**Includes**

: "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 or with a Full Bench Seat the Back Panel is Completely Void of Covering

: CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket

: DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors

: FLOOR COVERING Rubber, Black

: HEADLINER Soft Padded Cloth

: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section

**Description**

: STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door  
: SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

WHEEL, SPARE, DISC 22.5" Painted Steel, 10 Stud (285.75MM BC Hub Piloted) 8.25 DC Rim

WHEELS, FRONT DISC; 22.5" Painted Steel, 2 Hand Hole, 10 Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs.

**Includes**

: PAINT IDENTITY, FRONT WHEELS White  
: WHEEL SEALS, FRONT Oil Lubricated, Includes Wheel Bearings

WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 2 Hand Hole, 10-Stub (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs

**Includes**

: PAINT IDENTITY, REAR WHEELS White  
: WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings

BDY INTG, I/O EXPANSION HARNES {for Diamond Logic Builder} In-Cab wire harness (DLB) program only, Includes a harness with five blunt cut wires routed on lower left of instrument panel. Two ground active inputs and two (.5Amp) relay drivers outputs are provided

(2) TIRE, FRONT 12R22.5 G282 MSD (GOODYEAR) 481 rev/mile, load range H, 16 ply

(4) TIRE, REAR 12R22.5 G282 MSD (GOODYEAR) 481 rev/mile, load range H, 16 ply

**Services Section :**

WRTY,LTD, BASIC VEHICLE DSPEC {Diamond SPEC} To 12-Month/Unlimited Mileage; Includes Diamond Emergency Breakdown Service, With 90-Day Towing

Spare Tire and wheel

Fuel pickup tube and return installed in fuel tank