



180 Industrial Drive
Burlington, WI 53105 USA
Phone: 800-558-5986
Fax: (262) 767-2529
Direct: +1 (262) 763-0147
www.ldvusa.com

**AS BUILT
SPECIFICATIONS FOR:**

Contra Costa County Sheriff's Office (CA)
Equipment Vehicle

LDV SO # 623281

DATE
May 10, 2021



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Item	Qty	
1.00		<u>CHASSIS:</u>
1.01	1	<p>2020 Ford F550 4x2 diesel chassis</p> <ul style="list-style-type: none"> • 205" WB, 120" CA • GVWR: 19,500 lb Payload Plus Upgrade Package • Engine: 6.7L 4V OHV Power Stroke V8 Turbo Diesel B20 • Transmission: TorqShift 10-Speed Automatic • Limited Slip w/4.88 Axle Ratio • 332 total Amp dual alternators • 78 AH Battery, 750 CCA, Dual • Tires: 225/70R19.5G BSW • 6-Ton Hydraulic Jack • Wheels: 19.5" Argent Painted Steel • Vinyl 40/20/40 split bench front seat, includes driver's side manual lumbar • Power Equipment Group <ul style="list-style-type: none"> ○ Trailer Tow Mirrors w/Power Heated Glass. Includes manual telescoping, heated convex spotter mirror and integrated clearance lamps/turn signals. ○ MyKey ○ Power Windows ○ Power Locks ○ Remote Keyless Entry ○ SecuriLock Passive Anti-Theft System (PATS) • Low Deflection Package • Radio: AM/FM Stereo/MP3 Player, Includes 4 speakers and FordPass Connect 4G Wi-Fi Modem • SYNC Communications & Entertainment System • Bluetooth: Wireless phone connectivity and Streaming audio. • Platform Running Boards • Paint ~ OEM White <p>NOTE: Cab will be painted black.</p>
1.02	1	Spring upgrade installed on rear suspension.
1.03	1	<i>Federal Signal</i> Back-up alarm model 210331.
1.04	1	US DOT triangle reflector kit with three (3) triangles, for compliance with FMCSA regulations. Includes plastic storage case. Kit will be shipped loose in the vehicle.
1.05	1	Road Flare Kit, 30 Minute Capacity, 6-Pack Kit. Shipped loose in the vehicle.
1.06	1	Route horizontal exhaust to rear of vehicle towards curbside, under bumper, at slight angle towards right.
2.00		<u>BODY:</u>
2.01	1	<ul style="list-style-type: none"> • Load space area shall be 83" high x 93" wide x 16' long custom all aluminum dry van body with the following: • Aluminum alloy double H wall beam, 6005-T5 alloy, 3" deep x 1.5" wide, 0.125 wall thickness. Studs feature machined wire pass-throughs, and raised adhesive control features on base. • I-beams chemically bonded to sidewalls eliminating the need for additional rivets. Buck-rivets will be used to fasten the top, bottom and rub rail. Use of two-sided tape is not acceptable. • Body shall have 0.125" strain-hardened aluminum alloy 5052-H36 side panels. The upper panels shall be free of rivets allowing for smooth graphics application. • Skirt supports, 1.5 x 1.5 x 0.125 angle to reinforce skirt edge and hold bottom edge in a straight line. 0.188 x 1.00" flat braces placed at 4' intervals and riveted to lower wall angle and floor to maintain sidewall skirt rigidity.

Item	Qty	
		<ul style="list-style-type: none"> • 32 x 78 Rear Door with 21x25 upper window. • Fender flares, 1.38" x 2.25" x 0.090" roll formed and radiused 5052-H32 aluminum sheet, mechanically fastened to wheel opening. Edges sealed against moisture. • NFPA 1901 embossed 0.125" aluminum tread plate roof attached to 3" x 1 1/2" x 0.125 extruded aluminum roof bows on 16" centers. Bows are 2" skip welded every 12" Tread plate seams shall be continuous welded. Perimeter of roof shall be chemically sealed. • Extruded aluminum floor with interlocking planks, 1.88" high x various widths, 0.125" top surface. 6005-T5 alloy and temper. Heavy-duty thick-wall extruded planks fore and aft of all floor cutouts and every 5th plank in all other areas. Planks made of 6005-t5 alloy and temper, 0.250" thick top surface. • Full width 12" deep heavy-duty aluminum rear bumper with center step, painted to match the body. • Full length skirting below floor. • All clearance and side marker lights to be LED. • Standard structural warranty of 5 years or 50,000 miles and standard component warranty of 12 months or 12,000 miles. • The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit to assure removal of imperfections in metal surface. All aluminum shall be chemically etched and primed prior to painting. Base body color shall be oven baked and painted to commercial truck standards. <p><i>Note: Specifications are from body manufacturer and are subject to change without notice.</i></p>
2.02	1	Exterior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door.
2.03	1	Interior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door. NOTE: Mounted on inside of rear door.
2.04	1	Wire one of the overhead lights to function as a courtesy light when the entry door is opened.
2.05	1	30" wide aluminum flip-down step on rear bumper with diamondback step surface. Step shall have slots in rails for securing step in stow and down position. Bumper to have additional intermediate aluminum step to reduce the step height into the vehicle from bumper to floor level. NOTE: Make 18" deep bumper if required.
2.06	1	Maxxima LED Round combination stop/tail, turn and reverse lights.
2.07	1	Cast Products LP0013-1 aluminum license plate holder with LED light.
2.08	1	Entire underside shall be undercoated. Includes chassis, floor extrusions, step wells and aluminum compartments.
2.09	1	LDV rear mud flaps. Includes anti-sail brackets when required.
3.00		<u>PAINT / GRAPHICS:</u>
3.01		Cab to be painted black by Ford dealer. NOTE: Paint code Ford_UA Black
3.02		Body paint base color shall be Ford_UA Black.
3.03	1	4-inch wide reflective stripe on the exterior back and sides of the vehicle.

Item	Qty	
3.04	1	Custom computer-generated non-reflective vinyl graphics per customer specifications. Includes up to seventy 8"-10" letters and up to forty-five 3"-6" letters. All lettering can be shaded or outlined. Note: Graphics package does not include production of custom shields and/or seals.
4.00		<u>GENERAL INTERIOR SPECIFICATIONS:</u> <ul style="list-style-type: none"> • Wall Covering: #66 Silver Smooth FRP • Ceiling Fabric: Silver Mist • Floor Covering: #150 Onyx PVC Flooring • Cabinets: #EBT-2-2002 Black Powder Coated Aluminum • Counters and Tables: #4880-38 Carbon Mesh Note: Manufacturer reserves the right to substitute equivalent materials.
5.00		<u>DRIVER / PASSENGER CAB AREA:</u>
5.01	1	Custom fabricated console in cab, for locating siren controller, police radio and/or other controls as specified elsewhere in this document. NOTE: Powder coat textured black. Remove and dispose of center seat section.
5.02		Cab Area Additions: <ul style="list-style-type: none"> • Vehicle height sign on dash. • Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7 • Payload sticker in cab area with vehicle axle load ratings and available axle payload as built.
5.03	1	Color back up camera system with 7" LCD monitor and day/night camera. Camera includes a microphone for audio commands from a spotter to the driver during backing operations. NOTE: Monitor mounted in place of rear view mirror.
6.00		<u>WALLS, CEILING AND FLOOR:</u>
6.01		Insulate walls with a minimum of 2-1/2" of fiberglass insulation. Cover interior body side posts with 1/2" plywood sub wall.
6.02		Cover sub wall with smooth finish <i>Kemlite</i> 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece front to back, no seams acceptable.
6.03		Install 0.100" bright aluminum diamond plate on wall and bulkheads. NOTE: Installed on base of aisle walls, approximately 3' high, for toe kick.
6.04		Insulate ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating. Cover interior roof supports with 1/2" plywood.
6.05		Cover sub ceiling with Silver Mist headliner material.
6.06		Floor underlayment to be 5/8" exterior grade tongue and groove structural plywood, 6 ply, face veneer plugged and sanded.
6.07		<i>Lonseal</i> /Loncoin II Flecks non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams.
6.08		All bulkheads shall be covered with <i>Kemlite</i> 0.075" FRP. Trim exposed edges of bulkheads with rounded anodized aluminum trim where applicable.
6.09	1	Cover load space door with powder coated aluminum panel with heavy-duty rubber grab handle. NOTE: Interior window covering will be a black out curtain. Powder coat color will be black to match cabinets.

Item	Qty	
7.00		<u>CABINETS:</u>
7.01		Custom fabricated aluminum cabinets located as shown on drawing. Cabinet specifications: <ul style="list-style-type: none"> • Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames. • Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached. • Overhead cabinets constructed of 0.064" powder coated aluminum with anodized aluminum frames. • Overhead cabinet doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached. • Overhead cabinet doors swing up.
7.02	2	Dry erase writing surface on overhead cabinet door.
7.03	2	Gas spring lift supports on overhead cabinet door.
7.04	2	LED light under overhead cabinet. NOTE: Above plotter.
7.05		Slide-out printer tray. NOTE: Brother Business Wireless Color Laser Printer, HL-L8260CDW.
7.06	1	Custom fabricated slide out tray for plotter. <ul style="list-style-type: none"> • 24" full extension slides with front release • Black powder coat finish NOTE: HP DesignJet T730 plotter.
7.07	5	Aluminum box pan shelf up to 48" wide. NOTE: Locations: Five (5) Interior shelves above exterior compartments.
7.08		Heavy B-Line steel channel fastened to bulkheads for shelf support.
7.09		Countertops shall be covered in 0.040" <i>Wilsonart</i> laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
7.10		Custom fabricated console to house electrical distribution components and control panels. NOTE: Control panel is black.
7.11	6	Nylon web cargo netting to secure items on interior shelves. 1" (25 mm) wide webbing with 6" (152 mm) openings.
8.00		<u>HVAC SYSTEM:</u>
8.01	1	Fan-tastic Vent model 1450 3-speed reversible 12" power roof ventilator.
8.02	1	<i>Coleman</i> Mach 8 series low profile air conditioner with wall mounted thermostat. Includes: <ul style="list-style-type: none"> • 13,500 nominal Btu/hr air conditioner with condensate pump. • Ceiling assembly with 6,000 Btu/hr heat strip • Wall mounted thermostat

Item	Qty	
9.00		AC ELECTRICAL SYSTEM:
9.01	1	<p><i>Onan</i> Commercial Quiet Diesel 7.5-kW 120 volt AC generator model 7.5 HDKAT/11453 mounted in a custom fabricated all aluminum compartment. Generator has the following specifications:</p> <ul style="list-style-type: none"> • 67 dB(A) @ 50% load, and 71 dB(A) @ full load before installation in box measured at 10 feet. • Pure sine wave output with digital voltage regulation. • 3-cylinder liquid cooled diesel engine. • Fuel consumption is as follows: 50% load = 0.56 GPH, full load = 0.96 GPH. • Generator temperature operating extremes: -20 F to 120 F <p>Compartment shall be constructed to the following specifications:</p> <ul style="list-style-type: none"> • Compartment shall be constructed from 0.187" aluminum with all welded seams. • Compartment shall have 0.125" aluminum 2" box pan doors and 0.125" aluminum frames. • Door frames shall be riveted to the body and welded to the compartments. • Doors shall have stainless steel hinges attached to the doors and door frames with stainless machine screws. • Doors shall have slam latches and flush mounted handles. • Doors shall have 0.100" aluminum treadplate panels on interior surfaces. • Doors shall be held open in a 90° position with gas charged lift/support cylinders. • Doors shall be sealed with industrial grade neoprene gasket. <p>NOTE: Generator exhaust shall be routed to the street side of the vehicle.</p>
9.02	1	Camco Gen-Turi Generator Exhaust Venting System. Routes exhaust above roof. Not for use while vehicle is in motion.
9.03	1	Automatic transfer switch for switching between shore line power and generator power.
9.04	1	<p><i>ACData</i> surge suppressor for protection of entire AC power system.</p> <p>Product features:</p> <ul style="list-style-type: none"> • UL listed: UL1449 3rd Edition • LED visual verification of status
9.05		120Vac auxiliary control panels as required with UL listed magnetic/hydraulic circuit breakers and LED indicators.
9.06	1	AC Digital voltmeter and digital ammeter 5311.
9.07	1	Onan remote generator stop/start switch with generator hour meter 300-4943, 30 ft harness 338-3490-02 and ten Onan sockets 323-1200.
9.08	1	<i>Marinco</i> 30A-125Vac waterproof shore power inlet, 50-ft. 30A-125Vac shore power cord, 6-ft. 30A-125Vac pigtail.
9.09	4	<p>20A-125Vac duplex receptacle. Receptacle is not dedicated to any installed equipment.</p> <p>NOTE: One (1) at printer. One (1) at plotter. One (1) curb side upper forward storage, for portable charger. One (1) street side upper forward storage, for portable charger.</p>
9.10	2	<p>20A-125Vac duplex receptacle with dual USB charging ports. Receptacle is not dedicated to any installed equipment.</p> <p>NOTE: Two (2) at workstation on curb side.</p>

Item	Qty	
9.11	7	<p>20A-125Vac exterior GFCI duplex receptacle.</p> <p>NOTE: One (1) curb side towards front. One (1) street side towards front. One (1) on rear wall. Receptacle will be installed with a weatherproof cover.</p> <p>Four (4) in compartments. Two (2) curb side, two (2) street side. One each rear most two compartments. Receptacle will not have a weatherproof cover.</p>
9.12		<p><u>AC WIRING REQUIREMENTS:</u></p> <ul style="list-style-type: none"> • All AC main wiring shall be stranded THHN wire and run in non-metallic <i>Carlton</i> Carflex liquid tight conduit. • All AC branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic <i>Carlton</i> Carflex liquid tight and <i>Carlton</i> Flex-Plus blue ENT conduit. • All electrical circuits and appliances shall conform to applicable national electrical codes.
10.00		<u>DC ELECTRICAL SYSTEM:</u>
10.01		<ul style="list-style-type: none"> • Two (2) Lead acid deep-cycle 6Vdc batteries. Batteries shall be installed underbody in slide out weather resistant aluminum compartment. Compartment shall have box pan door with slam latch, flush mount handle, key lock and <i>Kwikkee</i> heavy-duty slide assembly. The batteries will be separated from the chassis batteries for auxiliary equipment (2.2 hours of capacity @ 75-amp discharge rate). Battery data assumes a usable voltage range of 13.6 to 10.5 volts. • Two (2) electronic converter/chargers, 60 amp minimum output each. Converter/charger features: <ul style="list-style-type: none"> • Charges three banks of batteries at the same time. • UL listed for safety. • Manual reset circuit breaker. • Reverse battery protection. • Electronic current limiting. • High voltage protection. • 12Vdc control panel with seven (7) UL listed magnetic/hydraulic circuit breakers with red LED indicators and 12Vdc digital voltmeter. • 12Vdc auxiliary panels with UL listed magnetic/hydraulic circuit breakers as required.
10.02	1	Battery combiner automatically combines the battery banks during charging and isolates when no charging sensed on either bank. A three position control switch allows an operator to manually combine or separate batteries, to jump start engine or troubleshoot a failure.
10.03	1	Dual Auxiliary Battery Disconnect System. Enables auxiliary battery disconnect to be activated from cab or load space area.
10.04	10	<p>Light, Orion 6" LED, neutral white with polished bezel.</p> <p>NOTE: Ceiling lights will be wired in two banks, one switch controlling each bank. This allows for reduced lighting.</p>
10.05	6	<p>Whelen M9LZC Gradient LED Scene Light with chrome flange.</p> <p>NOTE: Two (2) each side, two (2) rear. Three (3) switches to control each side separately.</p>
10.06	1	<p>Whelen PELCC LED light with chrome housing.</p> <p>NOTE: On rear to illuminate entry steps. Switched at control panel.</p>

Item	Qty	
10.07	3	<p><i>Whelen</i> Pioneer SlimLine™ Flood light, 35 Watts, 12VDC, Black color.</p> <p>NOTE: One (1) each side, recessed mount. One (1) rear, universal bail mount, mounted above door with brackets.</p>
10.08		<p>12VDC WIRING REQUIREMENTS:</p> <ul style="list-style-type: none"> • 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable. • All added electrical branch circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical branch circuit wiring (plug type fuses are unacceptable). • Circuit breaker functions shall be identified by engraved or printed labels. • All added wiring for load runs of AWG 10, 12, 14, and 18, shall conform to MIL-W-16878/2 and/or UL1007/1569" • All added wiring for load runs of AWG 8, shall conform to MIL-W-16878/3 and/or UL1028 • Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer. • All wiring shall be numbered or lettered on 6" centers minimum. • Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required. • Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms. • All wire bundles shall be tied with trimmed nylon ties. • Extreme care shall be exercised to provide for easy serviceability of the system in future years. • Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas. • A high-current 12Vdc system wiring schematic shall be provided. • These are the minimum acceptable 12Vdc wiring requirements.
11.00		EMERGENCY LIGHTING / SIRENS:
11.01	5	<p><i>Whelen</i> M9 series Linear Super-LED lighthouse with internal flasher, BLUE/RED split LED's with CLEAR outer lens M9J. Includes chrome flange.</p> <p>NOTE: Two (2) curb side high. Two (2) street side high. One (1) rear, curb side high.</p> <p>Flash pattern will be set at double flash 90 or 60. Each light will have 4 wires ran to cab console for customer siren control installation.</p>
11.02	1	<p><i>Whelen</i> M9 series Linear Super-LED lighthouse with internal flasher, AMBER/RED split LED's with CLEAR outer lens M9K. Includes chrome flange.</p> <p>NOTE: One (1) rear, street side high.</p> <p>Flash pattern will be set at double flash 90 or 60. Each light will have 4 wires ran to cab console for customer siren control installation.</p>

Item	Qty	
12.00		<u>RADIOS:</u>
12.01		12Vdc power leads for communications radios to be 8-gauge copper stranded wire with crimp-on end connectors. Power to radios to be controlled by auxiliary battery disconnect switch.
12.02	2	<p>Prewire and make installation provisions for customer installed radio. Installation includes:</p> <ul style="list-style-type: none"> • Two (2) Antenna Runs from the roof to radio location. These runs will each have an NMO-style base on the antenna raceway and have LMR195 antenna cable routed to radio location in Carlon Carflex ENT conduit. • One (1) 12Vdc power block located at the radio location. <p>NOTE: Customer supplied radios: Motorola APX 7500 dual band. One (1) in cab console. One (1) in body at workstation area.</p>
12.03	1	<p>Single 3"H x 3"W x 12'L square aluminum tube antenna raceway on the roof of the apparatus. Antenna raceway will penetrate the roof at one location, to be determined. Includes the following:</p> <ul style="list-style-type: none"> • 3" high x 3" long aluminum access cover at each antenna base location on the side of the tubing for access to antenna base and coax cable. • Access covers with watertight gasket and attached with four (4) stainless steel machine screws. Raceway tube to have nut-serts installed for access cover attachment. • Carlon Carflex ENT conduit routed from antenna raceway penetration location to radio transceiver locations.
13.00		<u>COMPUTER NETWORK AND EQUIPMENT:</u>
13.01	4	<p>RJ-45 Cat6 computer network jack with Cat6 cable routed through Carlon Flex-Plus ENT conduit or raceway (as applicable).</p> <p>NOTE: One (1) at printer. One (1) at plotter. Two (2) at workstation.</p>
13.02	1	Cable Certification Report confirming that network wiring complies with Cat6 specifications.
13.03	2	<p>Pre-wire and make installation provisions for customer supplied printer or plotter.</p> <p>NOTE: Printer: Brother Business Wireless Color Laser Printer, HL-L8260CDW (LDV install). Plotter: HP DesignJet T730 (customer installing after delivery).</p>
13.04	1	<p>Cradlepoint AER2200-1200M cellular router with roof mounted antennas per modem installed. Features:</p> <ul style="list-style-type: none"> • FirstNet Ready™ • Support LTE-Advanced, 600mbps • Cloud Management • Security: Stateful Firewall and IPS/IDS • SD-WAN and Virtual Cloud Networking • Ports (WAN/LAN switchable): 1 GigE WAN and 9 GigE LAN • WiFi (Dual-band, dual-concurrent a/b/g/n/ac) • Dual-Modem capable: 1 embedded and 1 integrated (only the integrated modem is included in this line) • Processor: 716 MHz quad-core processor • Power-over-Ethernet: 4 ports <p>NOTE:</p>

Item	Qty	
		Carriers are AT&T and Verizon. Roof mounted antennas are NMO tyle base. Includes exterior roof mounted antennas for exterior Wifi.
13.05	1	Cradlepoint MC400 modular modem to add a second modem to the mobile router. Includes the necessary antennas for the second modem.
14.00		<u>EXTERIOR STORAGE COMPARTMENTS:</u>
14.01	1	Single door underbody storage compartment with approximate interior dimensions 15" high x up to 36" wide x 25" deep constructed from 0.125" aluminum with all welded seams. NOTE: Street side rear skirt, storage.
14.02	6	Roll up door storage compartment constructed from 0.125" aluminum with all welded seams.
14.03	1	Exterior tall storage compartment with approximate interior dimensions of 36" high x up to 60" wide x 25" deep constructed from 0.1875 " aluminum with all welded seams. NOTE: Curb side front, top hinged, storage
14.04		Compartments listed above will be constructed to the following specifications: <ul style="list-style-type: none"> • Sweep out type bottoms with 1/2" drain holes. • 2" box pan doors and door frames fabricated from 0.125" aluminum. • Door frames shall be riveted to the body and welded to the compartments. • Compartments shall have an LED light that illuminates when the door is opened. Compartment doors will be constructed to the following specifications: <ul style="list-style-type: none"> • Stainless steel hinges attached with stainless machine screws. • Slam latches and flush mounted handles. • 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware. • All doors shall be sealed with industrial grade neoprene gasket.
14.05	17	Aluminum box pan shelf up to 48" wide. NOTE: Locations: Three (3) each large roll up compartment. Two (2) in small roll up compartment.
14.06		Heavy extruded aluminum B-Line channel welded in compartments for shelf support.
14.07	6	Exterior aluminum roll up door with satin anodized finish. Includes: <ul style="list-style-type: none"> • Manual Lock with 2-sided Key • Sill Plate • Pull strap (as required) • Door Ajar Switch (required for LED light strips or door ajar warning, if applicable)
14.08		Ultra thin surface mount flexible LED lighting strip. NOTE: Two (2) each roll up door compartment. One (1) each hinged door compartment.
15.00		<u>MISCELLANEOUS OTHER:</u>
15.01	2	Kidde Pro Line 4-A: 60-B: C 10 pound dry chemical fire extinguisher with wall mount bracket.
15.02	1	Battery powered combination Carbon Monoxide and Smoke alarm.
15.03	1	Complete manual set, including the following (as applicable): <ul style="list-style-type: none"> • As-built specifications with interior and exterior drawings as used for production of the vehicle. • Chassis and body owner's manuals.

Item	Qty	
		<ul style="list-style-type: none"> • 12Vdc and 120Vac legends showing wire gauge, color, number and function. • 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels. • Roof top antenna placement drawing and legend identifying antenna placements and termination points. • Warranty and Return Authorization procedures. • Chassis and generator maintenance and service logs. • Battery maintenance information. • All individual component manuals and warranty registration cards as provided by component manufacturers. Customer is responsible for completing warranty cards and mailing them to manufacturers.
15.04	1	Set of LDV deployment and operation manuals in English. Set includes: one (1) hardcopy manual, one (1) softcopy manual on CD in Word format. NOTE: Operational user manuals, on-hand user training, programming of all equipment
15.05	1	At time of delivery to customer's facility an LDV representative will provide up to four (4) hours of orientation on LDV provided systems, as applicable: <ul style="list-style-type: none"> • Generator start up and shut down procedure • AC and DC electrical systems operation • HVAC systems operation
15.06	1	Performance Bond
15.07		LDV warranty, covering 1 year or 12,000 miles for manufacturer's defects in materials and workmanship. Refer to LDV warranty statement for details of warranty coverage.
15.08		Note: Project scope does not include certain tasks or costs that are the responsibility of the customer unless clearly specified as LDV supplied. These items include, but are not limited to: <ul style="list-style-type: none"> • Radio and telephone system programming. • Activation and service fees for cellular telephones, satellite telephones, satellite TV, satellite internet access. • Loading and configuring computer software. <p>In the event of a discrepancy between the drawing and specification, the specification will supersede. LDV reserves the right to make substitutions of equal quality and specifications of those listed in this document.</p> <p>Some component models change frequently. In the event that a specified component model becomes unavailable at the time LDV attempts to source it, LDV will provide a replacement model with equivalent or better features, as agreed upon with the customer.</p>