

Rosenbauer/Central States

One (1)
BF-10-0100

FORD F-550 CHASSIS

A 2008 Ford F550, four door, 4x4 chassis per the following specifications shall be furnished:

2008 Ford F-550 XLT Super Duty 4x4 Crew Cab

Length: 261.0" (Chassis Only)
Wheelbase: 176.2"
Cab-To-Axle: 60"
Max GVWR: 17,950 lbs.
Max Payload: 10,500 lbs.

Vehicle shall include the ambulance prep package and/or include the following factory options:

Mechanical:

- 6.0L OHV 32-Valve Power Stroke V8 Turbo Diesel (or model year 2008 equivalent)
- Torqshift 5-Speed Automatic Overdrive Transmission with Tow/Haul Mode (or model year 2008 equivalent)
- PTO Provision
- Manual 4-Wheel Drive System with Manual Locking Hubs
- Dual 130 AMP, Extra-Heavy Duty Alternator
- Battery Saver (battery charger supplied by Rosenbauer)
- Fail-Safe Engine Cooling System
- Fuel Tank – 40 Gallon Capacity
- Power 4-Wheel Disc Brakes with ABS
- Power Steering
- Stabilizer Bars – Front and Rear
- Stainless Steel Exhaust System
- Steering Damper
- Trailer Tow Prep Package
- Skid Plate – Transfer Case
- 19.5" Forged Polished Aluminum Wheels
- 225/70R19.5F Max Traction BSW Tires
- Spare Tire and Wheel Including Jack

Interior: (Beige / Brown or Gray)

- Front Bucket Seats
- Rear Bench Seat
- Air Conditioning
- AM/FM Stereo with Digital Clock
- Floor Covering – Black Vinyl
- Floor Mats – Black All – Weather
- Instrument Cluster – Black with Black Gauges
- Power Door Locks
- Power Front Windows with One-Touch-Down Driver's Side Feature
- Rear View Mirror – Day/Night
- Speed Control/Tilt Steering Wheel
- Visors with Passenger Mirror
- Roof Clearance Lights
- Tow Hooks – Front (2)
- Bumper – Front Chrome
- Cab Steps – Black Molded

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- Front Fender Moldings with Integrated Mud Flaps
- Daytime Running Lamps
- Grille – Bright
- Headlamps – Dual-Beam Jewel-Effect
- Light – Underhood Service
- Mirrors – Power Glass, Manual Telescoping Trailer Tow with 2-Way Fold (Heated Glass, Intergrated Turn Signal and Clearance Lights)

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CHASSIS ADDITIONS AND MODIFICATIONS

One (1)
BF-10-0199

ALUMINUM DIAMOND PLATE ON CAB ROOF

The roof of the Ford F-550 cab shall be covered with 1/8" polished aluminum diamond plate.

One (1)
BF-10-0299

FOG LIGHTS

Two (2) fog lights shall be provided at the front of the chassis with a switch in the cab.

One (1)
CC-50-0525

REAR MOUNT FUEL TANK

There shall be a rear mounted fuel tank furnished with the chassis. The fuel fill shall be located on the left rear of the apparatus.

One (1)
CC-50-0540

CAST ALUMINUM FUEL FILL ASSEMBLY WITH HINGED DOOR

There shall be a cast aluminum fuel fill assembly furnished in the driver's side behind rear axle for the rear mount fuel tank. The fuel fill assembly shall consist of a polished cast aluminum housing with a spring loaded fill door. The fill neck and cap assembly shall be located behind the spring-loaded door.

A fuel splash guard shall be made of stainless steel and be installed below the fuel fill.

One (1)
CC-50-6000

REAR MUD FLAPS

Heavy-duty, black colored, rubber mud flaps shall be furnished and installed behind the rear wheels of the vehicle. Mud flaps shall extend the full width of the rear duals and are to be attached with stainless steel fasteners.

One (1)
CC-51-1150

HORIZONTAL CHASSIS EXHAUST

The chassis exhaust system shall be extended to the rear of the right rear wheel.

One (1)
CC-60-2300

MAP BOX

A fabricated map box/pocket 5" wide x 12.5" long x 8" deep is to be provided and mounted within the chassis cab, accessible to the left and right front seating positions. The box is designed to hold three ring notebook binders.

Location of map pocket to be determined prior to construction.

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Four (4)
CC-61-1000

DOME LIGHTS IN CHASSIS CAB

There shall be a dome light furnished on the ceiling of the chassis cab. The light(s) shall be controlled by individual switches located on each light.

Four (4) additional red dome lights shall be provided and mounted as per fire department requirements.

One (1)
CC-65-0400

ALTERNATOR

The alternator shall be of adequate size to meet the NFPA requirements and to accommodate the specific apparatus electrical load.

One (1)
KB-02-0300

1/8" ALUMINUM BODY

The aluminum sheet material used in fabricating the body shall be a minimum of .125 (1/8") in thickness.

One (1)
KB-02-0410

COMPARTMENT FLOORS

The compartment floors shall be constructed of aluminum treadplate material.

One (1)
KB-02-0499

ROCK GUARDS

Rock guards of bright finish diamond tread plate shall cover the front and rear corners of the body 24" up from the bottom of the body. The diamond plate rock guards shall be in addition to the standard diamond plate panel on the entire front and rear of the body.

One (1)
KB-02-0500

ALUMINUM BODY

The body shall be fabricated of aluminum extrusions, smooth aluminum sheet and aluminum treadplate.

The aluminum extrusion alloy shall be 6061 with a temper rating of T6, and have a tensile strength of 45,000 PSI and yield strength of 40,000 pounds. The aluminum extrusions shall 3" x 3" aluminum tubing and specially designed extrusions where applicable.

The smooth aluminum sheet material alloy shall be 5052 with a temper rating of H32, and have a tensile strength of 33,000 PSI and yield strength of 28,000 pounds.

The aluminum treadplate alloy shall be 3003 with a temper rating of H22, and have a tensile strength of 30,000 PSI and yield strength of 28,000 pounds.

The extrusions shall be designed as structural-framing members with the smooth aluminum and treadplate fabricated to form compartments and floors. All aluminum material shall be welded together using the latest mig spray pulse arc welding system.

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Compartments to be sweep out design and to be water and dust proof. All compartments shall be made to the maximum practical dimensions to provide maximum storage capacity.

All exterior compartments shall have polished aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.

Wheel well panels shall be double break formed smooth aluminum that is welded in place. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. The frame side of the wheel well area on each side of the opening shall be attached to the frame side of the front and rear compartments. All seams on the frame side of the body shall be welded and caulked to prevent moisture from entering the compartments.

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with stainless steel fasteners.

FASTENERS

All aluminum and stainless steel components shall be attached using stainless steel fasteners.

Compartment door hinges, handrails and running boards shall be attached using minimum 1/4" diameter machine bolt fasteners.

3/16" diameter fasteners shall only be used in nonstructural areas such as; door handles, trim moldings, gauge mounting, etc.

One (1)
KB-14-0100

BODY DIMENSIONS

Apparatus body shall be up to 116" long and 95" wide, reference drawing for actual body length. Body compartments shall be full depth from top to bottom. Each compartment shall be approximately twenty-three and one-half inches in depth. The area between the body sides shall be 48" wide.

One (1)
KK-01-1500

ALUMINUM SUB-FRAME

The main body sub-frame shall be extruded aluminum and be fully welded to the longitudinal frame rail extrusions that are mounted parallel to the chassis frame rails.

The main body sub-frame shall be constructed of no less than four (4) extruded aluminum tubes running full width of the apparatus body. A minimum of two (2) full body width tubes shall be provided ahead of and behind the rear axle forming the main body support cross members. The main cross tubes shall be fully welded to the vertical and horizontal extrusions forming the body super-structure, described elsewhere herein.

For added strength and rigidity, no less than six (6) intermediate body cross members shall be provided constructed extruded aluminum tubes.

The intermediate structural cross members shall be interconnected and welded to the main body tubular cross members forming a fully welded support grid for the body super-structure compartments.

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The sub frame cross members shall be attached to the chassis frame rails using heavy "U" bolt fasteners to allow removal of the sub frame and body assembly from the chassis. There shall be a barrier provided between the sub frame and body to prevent electrolysis.

One (1)
KK-02-0400

COMPARTMENT VENTS

All body compartments shall have a minimum of one (1) louvered panel bolted into a wall to provide the proper airflow inside the compartment. There shall be a filter installed behind the louvered panel. The filter shall be accessible for cleaning by removing the louvered panel on the interior of the compartment.

One (1)
KK-02-0602

WHEEL WELL PANELS AND FENDERETTES

For ease of accessibility and maintenance, wheel well panels shall be 3/16" aluminum treadplate that is welded in place.

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless steel fasteners.

One (1)
KK-02-3700

REAR TOW EYES - CHROME

There shall be two (2) chrome plated tow eyes furnished under the rear of the body and attached directly to each chassis frame rail. There shall be a reinforcement spreader bar connecting the two tow eyes. Tow eyes are to be constructed of 3/8" plate steel with a 4" I.D. hole, large enough for passing through a tow chain end hook.

One (1)
KK-03-0050

APPARATUS COMPARTMENTATION

There shall be large enclosed compartments on both sides of the body, starting at the front of the body and continuing to the rear of the apparatus. These compartments shall be as large as possible, using all available space.

The aluminum treadplate compartmentation tops on each side of the body shall be extended out and downwards a minimum of .50" over the compartment doors forming a drip rail. Corners shall be TIG welded.

Lower or rear face compartments, if specified shall be provided with polished aluminum drip rails.

One (1)
KK-03-0065

HINGED COMPARTMENT DOOR CONSTRUCTION

All hinged compartment doors shall be of the flush style so that the entire door fits flush against the apparatus body sides. Doors shall be designed, in the closed position, to have the painted edges protected from damage on the tops by forming the treadplate compartment tops into a extended drip edge, on the bottoms by the rub rail.

Doors shall be a minimum 2" thick, fabricated of a minimum of .125 smooth aluminum. Full panel inner compartment door liners shall be provided and constructed of smooth aluminum. The compartment doors shall have a foam panel glued in place between the exterior and interior door

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skin. Exterior door panels shall be smooth with no welds visible on the exterior skin. Double door compartments shall be equipped with a secondary latch to hold the secondary door in position.

All compartment door hinges shall be full-length piano type constructed of a minimum 14-gauge type 304 polished stainless steel with 3/16" stainless steel hinge pin with dual directional bolt holes for ease of adjustment.

When horizontally hinged lift-up doors are specified, they shall be equipped with heavy-duty gas filled props to hold the doors in the open position. All other hinged doors shall be equipped with spring loaded hold open device specifically designed for use on vertically hinged doors. Door holders shall be bolted in position. The door ajar switches shall be fully enclosed within structural members and shall not extend into the clear door opening.

All compartment doors shall be provided with hollow core weather stripping to provide a weather tight seal at the door opening and to prevent road spray and debris from entering the compartment.

One (1)
KK-03-0076

EXTERIOR DOOR LATCHES

Side exterior compartment doors shall be furnished with a large stainless steel spring loaded D-handle with slam type latches. D-handles shall have the large "bent" D-ring for ease of grabbing the handle even when wearing mitts or gloves.

A non-moisture absorbing gasket shall be installed between the door latch and the door skin panel.

Seven (7)
KK-03-0093

EXTERIOR DOOR LOCKS

The hinge door(s) shall be equipped with a keyed locking device.

All compartment doors shall be equipped with locks.

One (1)
KK-50-4200

FLAT BACK BODY

The rear vertical surface of the body shall be flat from side to side.

One (1)
KL-00-0180

THREE BODY COMPARTMENTS

Driver side compartments shall be furnished as follows:

- One compartment ahead of the rear wheels with full height hinged single door.
- One compartment above rear wheels with one lift-up door.
- One compartment behind the rear wheels with full height hinged single door.

Top of all body compartments shall be overlaid with polished aluminum treadplate.

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One (1)
KL-00-5180

THREE BODY COMPARTMENTS

Passenger side compartments shall be furnished as follows:

- One compartment ahead of the rear wheels with full height hinged single door.
- One compartment above rear wheels with one lift-up door.
- One compartment behind the rear wheels with full height hinged single door.

Top of all body compartments shall be overlaid with polished aluminum treadplate.

One (1)
KL-00-9240

REAR BODY CONFIGURATION

- There shall be one compartment at the rear of the body with a full height hinged double doors.

One (1)
KL-LF-0000

LEFT FRONT COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-LF-0100

TRANSVERSE STORAGE AREA

The area above the frame rails in the front compartment behind the chassis cab shall be transverse to the passenger side of the apparatus.

One (1)
KL-LF-0700

ADJUSTABLE SHELF

Compartment shelf, one-half depth of the body, shall be constructed of .188" smooth Aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

The adjustable shelf shall be located in the upper section of the compartment.

One (1)
KL-LF-1000

TRANSVERSE SLIDE-OUT TRAY

The transverse slide-out tray shall be constructed of 3/16" aluminum material. Tray shall have with heavy-duty roller bearing slides with a latch to hold the tray in the "open" and "closed" positions. Tray shall have capacity of 500 pounds. The tray will extend out approximately 2/3 of the length of the tray trough, on either the left or right side compartments.

The transverse tray shall be floor mounted above the frame rails.

One (1)
KL-LO-0000

LEFT OVER WHEEL COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-LO-0100

TRANSVERSE STORAGE AREA

The over wheel compartment shall be transverse to the passenger side of the apparatus.

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One (1)
KL-LO-0700

ADJUSTABLE SHELF

Compartment shelf, one-half depth of the body, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

The adjustable shelf shall be located in the upper section of the compartment.

One (1)
KL-LO-1000

TRANSVERSE SLIDE-OUT TRAY

The transverse slide-out tray shall be constructed of 3/16" aluminum material. Tray shall have with heavy-duty roller bearing slides with a latch to hold the tray in the "open" and "closed" positions. Tray shall have capacity of 500 pounds. The tray will extend out approximately 2/3 of the length of the tray trough, on either the left or right side compartments.

The transverse tray shall be mounted to the floor of the compartment.

One (1)
KL-LR-0000

LEFT REAR COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-LR-0120

NON-TRANSVERSE COMPARTMENT

The area above the frame rails in the rear compartment shall be in depth to the chassis frame rails.

Three (3)
KL-LR-0600

ADJUSTABLE SHELF

Compartment shelf, as deep as the lower portion of the compartment, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

There shall be three (3) adjustable shelves provided.

One (1)
KL-RF-0000

RIGHT FRONT COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-RF-0100

TRANSVERSE STORAGE AREA

The area above the frame rails in the front compartment behind the chassis cab shall be transverse to the driver side of the apparatus.

One (1)
KL-RF-0700

ADJUSTABLE SHELF

Compartment shelf one-half depth of the body, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully

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adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

The adjustable shelf shall be located in the upper section of the compartment.

One (1)
KL-RO-0000

RIGHT OVERWHEEL COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-RO-0100

TRANSVERSE STORAGE AREA

The over wheel compartment shall be transverse to the driver side of the apparatus.

One (1)
KL-RO-0700

ADJUSTABLE SHELF

Compartment shelf, one-half depth of the body, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

The adjustable shelf shall be located in the upper section of the compartment.

One (1)
KL-RR-0000

RIGHT REAR COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-RR-0120

NON-TRANSVERSE COMPARTMENT

The area above the frame rails in the rear compartment shall be in depth to the chassis frame rails.

Three (3)
KL-RR-0600

ADJUSTABLE SHELF

Compartment shelf, as deep as the lower portion of the compartment, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

There shall be three (3) adjustable shelves provided.

One (1)
KL-RW-0000

REAR CENTER COMPARTMENT SHALL INCLUDE THE FOLLOWING OPTIONS:

One (1)
KL-RW-0100

REAR COMPARTMENT DEPTH

The rear center compartment run from the rear of the rescue body to the rear wall of the over wheel compartment.

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One (1)
KL-RW-0140

ADJUSTABLE SHELF

Compartment shelf, as deep as the rear compartment, shall be constructed of .188" smooth aluminum. The shelf shall have formed edges on three sides for added strength. The shelf shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

The adjustable shelf shall be located in the upper section of the compartment.

One (1)
KL-RW-0160

ROLL-OUT TRAY

Roll-out tray shall be constructed of 3/16" aluminum material. The tray shall have with heavy-duty roller bearing slides with a latch to hold the tray in the "open" and "closed" positions. The tray shall have capacity of 500 pounds. The tray shall be mounted to the compartment floor.

Exact location of roll out tray to be determined prior to construction.

One (1)
KM-50-1100

AIR BOTTLE STORAGE RACK IN COMPARTMENT

An air bottle storage rack is to be fabricated and installed on the floor of a compartment, per Fire Department instructions. The rack shall be designed to hold a minimum of eight (8) spare air cylinders. Bottle scuff protection shall be provided as required.

SCBA storage rack will be provided in the rear compartment. Exact layout and location to be determined prior to construction.

One (1)
KR-01-0100

EXTRUDED ALUMINUM RUB RAILS

Full body length polished aluminum rub rails shall be bolted in place on the right and left body sides and in the pump panel area. The rub rails shall extend outward beyond the body sides for protection of the compartments and doors. There shall be a bolt on aluminum corner casting on each rear corner to blend the rear tailboard assembly with the side rub rails.

The side rub rails shall be a heavy extruded aluminum "C" channel.

One (1)
KR-04-0004

SIDE AND REAR OVERLAYS

Overlay panels shall be constructed of 3003 polished aluminum treadplate. Polished aluminum overlay shall be provided and installed in the following areas:

- The front face of each side compartment.
- The rear body face and vertical area above tailboard.

Overlay shall be installed with "Aluminized" stainless steel bolts to prevent corrosion.

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One (1)
KR-04-0010

POLISHED COMPARTMENT TOP WELDS:

The compartment top welds to be polished.

One (1)
KR-04-3000

SLIP-RESISTANT WALKWAY SURFACE

All exterior surfaces designated as stepping, standing, and walking areas shall have an aluminum slip-resistant overlay material installed. The slip-resistant overlay material shall have a raised serrated surface that will allow moisture to drain out either side. The recessed surface shall be one piece solid material to prevent road spray and debris from entering the top surface from below. The slip-resistant overlay material shall meet the requirements of NFPA 15-7.3. The slip-resistant surface shall be installed in the following areas of the apparatus body:

- Step areas of the side running boards.
- Rear step running board step.
- Walkway and standing platforms

One (1)
KR-04-4902

REAR STEP/RUNNING BOARDS

The apparatus body running boards and rear step shall be constructed with slip-resistant surface and shall have bright aluminum treadplate trim around the outside edges. Side running boards and rear step shall be removable for ease of service in case of damage.

One (1)
KR-04-4904

REAR STEP/TAILBOARD

A single piece .188 rear step/tailboard shall be furnished that is a minimum of 8.00" deep and full width of the apparatus body, from rub rail to rub rail. The tailboard shall be provided with a removable casting on each corner for a pleasing appearance.

One (1)
KR-10-0000

HANDRAILS

Access handrails shall be 1 1/4" in diameter extruded aluminum with rubber insert. Access rail escutcheons and brackets shall be chrome plated and attached with stainless steel bolts. Anchoring of posts and framing members for railings of all types shall be of such construction that the completed railing structure shall be capable of withstanding a load of at least 225 pounds applied in any direction at any point along the rail.

One (1)
KR-10-0100

REAR HANDRAILS

Two (2) vertical access handrails shall be provided and mounted on the rear of the apparatus body, one on each side. Each rear handrail to be approximately 48" long.

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One (1)
KS-01-0400

REAR FOLDING STEPS

Two (2) NFPA approved folding steps shall be provided and mounted on the rear of the apparatus, one each side. All access steps shall have a minimum surface area of 35-square inches, and have a slip-resistant standing surface. The step shall be capable of supporting a 500-lb. load.

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One (1)
NA-00-0010

ELECTRICAL

Electrical wiring, hydraulic lines, air system tubing, and control cables shall be fastened to the frame or body structure of the apparatus and shall be furnished with protective looms, grommets, or other devices, so that any such connector and/or wiring will be protected from shear or tear.

The body 12-Volt electrical system shall be designed specifically for the apparatus body. Automatic reset circuit breakers shall be provided and installed in all circuits.

Wiring data shall be provided with the completed apparatus.

The following electrical equipment and lights shall be provided and installed:

One (1)
NA-00-0080

WIRING SYSTEM

All electrical wiring shall be 14-gauge heavy strand copper with type GXL crosslink high temperature insulation, being circuit function printed every three-inches along its entire length.

Wiring data shall be provided with the completed apparatus.

The following electrical equipment and lights shall be provided and installed:

One (1)
NA-00-1000

TAIL & STOP LIGHTS

Two (2) Weldon #2010 rectangular red stop/tail lights shall be provided and mounted at the rear of the body, one on each side.

One (1)
NA-00-2500

DIRECTIONAL LIGHTS WELDON 2010

Two (2) Weldon #2010, rectangular amber directional signal lights with black arrows shall be provided and mounted at the rear of the body, one on each side below the stop/tail lights.

One (1)
NA-00-4000

BACKUP LIGHTS WELDON 2010 (RECT)

Two (2) Weldon #2010, rectangular clear backup lights shall be provided and mounted, one on each side at the rear of the body. The backup lights shall be mounted below the rear stop/tail and directional lights.

One (1)
NA-00-5300

CLEARANCE LIGHTS

There shall be clearance marker lights installed meeting all DOT requirements. The vehicle clearance lights shall be recess mounted within the rear center tailboard step.

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One (1)
NA-00-5400

LICENSE PLATE BRACKET

A license plate mounting bracket shall be provided complete with a chrome-plated shielded indirect type light. Bracket shall be mounted at the rear of the apparatus body.

One (1)
NA-00-5600

BACKUP ALARM

An automatic, electronic reverse alarm shall be provided and installed. An alarm shall activate whenever the reverse gear is selected in the transmission.

One (1)
NA-00-7000

HIGH IDLE SYSTEM

There shall be a high idle system furnished and installed on the apparatus. The high idle system shall have an on/off switch located in the chassis on the switch console. The system shall have an interlock that will disable the solenoid if the parking brake is not completely set.

Seven (7)
NA-01-1200

RECESSED COMPARTMENT DOOR LIGHTS

A sealed light shall be installed recessed into the hinged compartment doors. The light shall be flush mounted into the interior door liner. Lights shall be wired to switch on and off with the automatic door switch.

Some lighting may be recessed in the walls of the compartments.

The exact locations of the recessed lighting shall be determined prior to construction.

One (1)
NA-01-3000

OPEN COMPARTMENT/HAZARD WARNING LIGHT

A red flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. The hazard light shall also be attached to folding equipment racks and light towers as specified. Light shall be properly marked and identified.

One (1)
NB-02-5200

BATTERY DISCONNECT SWITCH

A master battery on/off switch shall be provided and mounted in a convenient location to the driver. The master battery switch shall disconnect the batteries from all chassis and body accessories.

A "Battery-On" pilot light shall be provided, visible to the driver.

One (1)
NB-02-6100

BATTERY CONDITIONER

A 110-volt Kussmaul Auto-Charge 12 HO, single system, 20-amp automatic battery charger shall be provided and installed within the chassis cab and wired to the battery system. Battery charger shall be HIGH OUTPUT type designed to automatically charge the battery system when shoreline

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power is connected. The charger shall be equipped with an amp meter on the face of the charger to indicate the charge rate, and a remote voltage sensing device to compensate the charger output for the voltage drop in the charging wires.

One (1)
NB-02-7615

AUTO-EJECT

A Kussmaul "Auto-Eject" automatic disconnect device shall be provided and installed on the 110-volt shoreline connection complete with weatherproof cover and matching plug. The Auto-Eject shall be activated by the chassis starter switch to disconnect the plug.

The location of the shoreline plug shall be determined prior to construction.

One (1)
NB-02-9200

ELECTRICAL CONSOLE WITH EMERGENCY LIGHT SWITCH PANEL

An electrical console shall be constructed of .125" smooth aluminum material and mounted in the cab of the truck chassis. Console shall be designed and installed between the driver and passenger seats. The top face of the console shall be designed as the switch panel for all emergency light switches. The switch panel shall be hinged for easy access to the switch connections.

All emergency light switches shall be lighted, rocker style. Switches shall be internally lit when the switch circuit is in the on position. A plug-in identification label is to be provided and installed adjacent to each rocker switch with backlighting provided behind the label.

A rocker style internally lighted switch shall be provided and wired through a heavy-duty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console.

The electrical console shall also include an area for map books, the siren control head, cab console lighting, fire department supplied radio, cup holders, and warning light switches.

Three (3) spare switches shall be provided for use by the fire department.

Exact layout of the console shall be determined prior to construction.

One (1)
NB-02-9299

HOUR METER

An hour meter showing engine hours shall be provided on the cab center console.

One (1)
NB-02-9399

FIRE DEPARTMENT SUPPLIED RADIO

There shall be a fire department supplied Kenwood radio and a department supplied portable radio charging base in the center console.

One (1)
NB-03-2400

MAP LIGHT

One (1) flexible "gooseneck" type map light shall be provided and mounted on the cab dash panel complete with a switch on the light fixture base.

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One (1)
NB-03-2900

12 VOLT SPOTLIGHT

A Night Probe spotlight shall be furnished and installed on the apparatus. The spotlight shall provide 360-degree horizontal rotation and 180-degree vertical rotation. The spotlight includes a 100-watt halogen bulb that delivers 300,000 candlepower. The spotlight is constructed of a shock resistant, high-temperature thermoplastic material with an all weather universal mounting bracket that fits all roofs. The spotlight is provided with an ergonomic wired controller, with controls for up/down, left/right and on/off.

One (1)
NB-10-5000

REAR STEP LIGHTS

Two (2) chrome plated lights shall be furnished and installed on the rear face of the body to illuminate the rear step area. Lights shall be wired to the panel light switch at the pump operator's panel.

One (1)
NB-10-5400

ENGINE COMPARTMENT WORK LIGHT

An engine compartment work light shall be provided complete with a switch mounted on the light head.

One (1)
NB-10-6110

UNDER CAB LIGHTING

There shall be four (4) lights furnished below the chassis cab, one on each side below each door. The lights shall be wired to turn on and off with the park brake switch. When the park brake is engaged, the lights will come on and when the park brake is released the light will go off.

One (1)
NB-10-6910

UNDER BODY LIGHTING

There shall be two (2) lights furnished below the rear step, one on each side. The lights shall be wired to turn on and off with the park brake switch. When the park brake is engaged, the lights will come on and when the park brake is released the lights will go off.

One (1)
NB-10-7100

UNDER BODY LIGHTING

There shall be two (2) lights furnished below the front compartments, one on each side. The lights shall be activated by the park brake.

One (1)
NC-03-1500

ELECTRONIC SIREN

A Federal Signal, Model PA300MSC, 100/200-watt electronic siren with microphone shall be provided and mounted in the cab.

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One (1)
NC-03-5100

SPEAKER

DYNAMAX, 100-watt speaker shall be provided and recess mounted in the front bumper of the chassis. The speaker shall be connected to the electronic siren control unit.

One (1)
NE-04-0950

EMERGENCY LIGHTING

The upper and lower zones "A", "B", "C", and "D" of the apparatus shall have the following emergency lighting equipment:

One (1)
NE-04-6600

LIGHT BAR

A Code 3 model 2169NFPA1 69" LED light bars mounted on chassis cab roof to meet the NFPA upper zone A lighting requirement. Light bar to have the following equipment.

- (5) Red LED x wide optic module
- (8) Red LED x directional optic modules

The light bar shall be equipped with one (1) steady burning red light to meet California DOT requirements.

One (1)
NE-05-1000

REAR LIGHTS

Four (4) Code 3 9"x 7" flashing LED lights mounted on rear upper corners of body to meet the NFPA Zone B, C, D upper level lighting requirement. The lights shall be activated through the master emergency light switch located on the electrical console. Two (2) on rear, one (1) on each side with the following equipment.

All rear warning lights shall be red in color except the rear facing one on the passenger's side.

One (1)
NE-05-3800

ZONE A FRONT LIGHTS

There shall be two (2) Code 3 model 45 LED lights with bezels furnished on the front grill to meet the NFPA Zone A lower level lighting requirement. The lights shall be connected to a relay be activated through the master emergency light switch located on the electrical console.

One (1)
NE-05-5200

ZONE B & D SIDE LIGHTS

There shall be three (3) Code 3 model 45 LED lights furnished on each side of the apparatus to meet the NFPA Zone B & D lower level lighting requirement. One light mounted as far forward as possible, one light mounted as far to the rear as possible, and one light mounted between the front and rear lights. The lights shall be connected to a power supply and be activated through the master emergency light switch located on the electrical console.

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One (1)
NE-05-8700

ZONE C REAR LIGHTS

There shall be two (2) Code 3 model 45 LED lights furnished on the rear of the apparatus body to meet the NFPA Zone C lower level lighting requirement. The LED lights shall be activated through the master emergency light switch located on the electrical console.

One (1)
NS-00-0100

12 VOLT ELECTRICAL CERTIFICATION

The low voltage electrical system shall be tested and certified per NFPA 1901 requirements.

A certificate of compliance shall be provided with the completed vehicle upon delivery.

Minimum electrical load consists of the total amperage required to simultaneously operate the following in a stationary mode at the incident scene.

- The propulsion engine and transmission.
- All Clearance and marker lights.
- The communication radio. (Default of 5.0 amps used for testing).
- Illumination of all walking surfaces, the ground at all egress points, controls and instrument panels and 50% of the total compartment lighting load.
- Minimum warning lights required for "Blocking Right of Way" mode.
- The current to simultaneously operate any fire pump, aerial device & hydraulic pumps.
- Anything defined by the purchaser to be critical to the mission of the apparatus.

The first test for the electrical system is the **Reserve Capacity Test**. All the above listed components operate with the engine shut off. After 10 minutes all electrical loads are shut off and the battery system must have adequate reserve power to start the engine.

The second test is the **Alternator Performance Test at Idle**. All the above listed components operate with the engine at an idle. There can be no current draw from the batteries of the apparatus.

The third test is the **Alternator Performance Test at Full Load**. All electrical components shall be activated with the engine operating at governed RPM for two hours. During the test the system voltage can not drop below 11.7-volts or have excessive battery discharge for more than 120 seconds. Any loads not listed in the minimum electrical load may be load managed in order to pass the test.

All of the above tests must be conducted with the engine compartment at approximately 200 degrees.

One (1)
OA-41-0099

GENERATOR

One (1) 5 kW, single phase, clutched fan belt drive, engine driven generator system shall be supplied and installed. The generator shall be a Raven model Blackbird. The generator system shall be capable of producing the nominal output power of 5 kW, 120V, 60 Hz. The generator shall be installed per the manufacturer recommendations and shall be capable of supplying full power at recommended engine RPMs by the generator manufacturer.

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Data Label

A permanent data label indicating the following information shall be listed:

- a) Rated voltage
- b) Phase
- c) Frequency
- d) Amperage
- e) Continuous power in watts
- f) Engine RPM

Two (2)
OA-42-0010

TELESCOPING QUARTZ LIGHTING

A quartz light shall be provided and mounted on the apparatus, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be controlled by a switch located on the light head.

Light shall be a Fire Research 500W/110V Nightmaster, model LTA-530-S50.

The light shall be attached to a side mounted, bottom raise telescoping, anodized aluminum pole. The telescoping pole shall have a thirty-inch extension with friction lock mechanism. The telescoping pole shall be prewired with heavy-duty retractile cord with pigtail extending out the bottom of the lower tube.

Two (2) 500 watt telescoping lights shall be provided and mounted to the front of the body one on each side.

Two (2)
OA-42-0030

TELESCOPING QUARTZ LIGHTING

A quartz light shall be provided and mounted on the apparatus, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be controlled by a switch located on the light head.

Light shall be a Fire Research 500W/110V Nightmaster.

The light shall be attached to a side mounted, top raise telescoping, anodized aluminum pole with retractable tripod stand. The telescoping pole shall have a forty-inch extension with friction lock mechanism. The telescoping pole shall be prewired with heavy-duty retractile cord with pigtail extending out the bottom of the lower tube.

The tripod bracket shall be attached to the apparatus with quick release mounting bracket and footplate.

The tripod-telescoping pole shall be Fire Research model 600 with model 603 quick release truck mount brackets.

Two (2) 500 watt telescoping lights with tripod stands shall be provided and mounted on the rear of the body.

The tripod lights shall be plugged into 120 volt receptacles located at the rear of the apparatus body.

Exact mounting locations shall be determined prior to construction.

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One (1)
PA-01-0000

PAINTING

All bright metal fittings if unavailable in stainless steel shall be heavily chrome-plated. Iron fittings shall be copper plated prior to chrome plating.

All seams shall be caulked both inside and along the exterior edges with an automotive sealant to prevent moisture from entering between any body panels.

The body and all parts shall be thoroughly washed with grease cutting solvents prior to any sanding. After the body has been sanded and the minor imperfections filled and sanded, the body shall be washed again with a solution to remove any contaminants on the surface. The first coating to be applied is a self-etching primer for maximum adhesion to the body metal. The next three coats shall be an acrylic, urethane, primer surfacer. The primer surfacer coat is to be hand sanded with 600-grit sandpaper to insure maximum gloss of the paint. The last step is the application of at least three coats of Concept Acrylic Urethane two component color.

The fire pump and all rigid discharge and suction plumbing shall be painted silver in color.

While constructing the truck body, all aluminum parts shall be properly fitted on the body. The backside of all aluminum parts shall be sanded smooth of any burrs and sharp edges.

All aluminum parts shall be bolted to the body using stainless steel fasteners. Cadmium plated fasteners are not acceptable.

During reassembly of the apparatus, care shall be exercised in fitting and fastening the parts back in their respective position on the vehicle.

One (1)
PA-01-0200

UNDERCOATING

The body sub frame shall be undercoated with a heavy-duty automotive type undercoating before the rubber backing and the compartments are attached. After the body has been attached to the sub frame and all final items have been installed the entire body assembly shall be undercoated

One (1)
PA-01-1515

INTERIOR COMPARTMENT PAINT

The interior vertical compartment walls are to be painted white with a black colored spatter finish material.

One (1)
PA-01-5500

TWO TONE CAB PAINT

The chassis cab exterior shall be two-tone finish painted. The area to be painted shall be sanded and thoroughly prepared then refinished with PPG Concept paint.

The upper color to be Sikkens Autocoat LV or equivalent Number Blue 372.

The lower color to be Sikkens Autocoat LV or equivalent Number Red 90.

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One (1)
PA-02-1950

LETTERING

Lettering shall be done in gold leaf mylar letters, shaded in black, and encapsulated in clear mylar. Lettering to be placed on each cab door as directed by fire department. Maximum of seventy-five (75) letters.

One (1)
PA-02-2600

LETTERING SHALL BE AS FOLLOWS:

Exact lettering requirements shall be determined prior to construction. Lettering shall meet all Fire Department requirements as listed in their specifications.

One (1)
PA-02-8000

REFLECTIVE SAFETY STRIPE

A 1" x 6" x 1" wide 3M brand Scotchlite #680-10 reflective multi-stripe shall be affixed to the perimeter of the vehicle. There shall be a 1" gap between each of the stripes. Striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 60% of the perimeter length of each side and width of the rear, and at least 40% of the perimeter width of the front of the vehicle shall have reflective stripe.

The stripe shall be white in color.

One (1)
PC-00-0100

IDENTIFICATION & SAFETY LABELS

A permanent plate shall be installed in the driver's compartment to specify the quantity and type of the following fluids in the vehicle:

1. Engine oil.
2. Engine coolant.
3. Transmission fluid.
4. Pump Transmission Lubrication Fluid.
5. Pump Primer Fluid (If applicable).
6. Drive Axle Lubrication Fluid.
7. Air-conditioning refrigerant.
8. Air-conditioning lubrication oil.
9. Power steering fluid.
10. Transfer case fluid.
11. Equipment rack fluid.
12. Air compressor system lubricant.
13. Generator system lubricant.

When trucks have been UL certified, a permanent plate with pump performance data and serial numbers shall be installed on the pump panel.

A permanent plate shall be installed in the driver's compartment specifying the maximum number of personnel the vehicle is designed to carry per NFPA standards. It shall be located in an area visible to the driver.

An accident prevention sign stating "DANGER PERSONNEL MUST BE SEATED AND SEAT BELTS MUST BE FASTENED WHILE VEHICLE IS IN MOTION OR DEATH OR SERIOUS

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INJURY MAY RESULT". The warning sign shall be placed so it is visible from all seating positions.

An accident prevention sign stating "DANGER DO NOT RIDE ON REAR STEP WHILE VEHICLE IS IN MOTION, DEATH OR SERIOUS INJURY MAY RESULT". The warning sign shall be placed so it is visible from the rear step of the vehicle.

If an inlet located at the pump operator's position is valved, it shall be provided with a permanent label that states "WARNING SERIOUS INJURY Or DEATH COULD OCCUR IF INLET IS SUPPLIED BY A PRESSURIZED SOURCE WHEN THE VALVE IS CLOSED".

One (1)
TA-01-0100

OPERATION / SERVICE MANUALS

The manufacturer shall provide with the vehicle upon delivery, one (1) complete delivery manual. These manuals shall be in a notebook type binder, with reference tabs for each section of the vehicle. Within each section shall be:

1. Individual component manufacturer instruction and parts manuals.
2. Warranty forms for body.
3. Warranty forms for all major components.
4. Warranty instructions and format to be used in compliance to warranty obligations.
5. Wiring diagrams.
6. Installation instructions and drawings for major parts.
7. Visual graphics, electronic photos of installations of major parts.
8. Necessary normal routine service forms, publications and components of body portion of the apparatus.
9. Technical publications on training and instructions for major body components.
10. Warning and safety related notices for personnel protection.
11. Cab and chassis manuals shall be provided.
12. UL Pump Certification sheets, including the Manufacturer's Record of Apparatus construction details.
13. Certificate of Compliance to Electrical Warning System Low Voltage test.
14. Line Voltage Electrical System test certificate.
15. Water tank capacity certificate.

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One (1)
VA-00-0000

ADDITIONAL EQUIPMENT

The following equipment shall be furnished by the apparatus body builder.

Two (2)
VA-05-1400

STREAMLIGHTS

Streamlight Litebox 45107 shall be installed where specified and wired to the chassis 12-volt system.

Exact location of light boxes to be determined prior to construction.

FIRE DEPARTMENT SPECIFIED RESCUE EQUIPMENT LIST

We will need more information regarding brands and exact requirements before we are able to bid this equipment correctly. Although some of the list is straight forward, for a truck manufacturing company, it is unusual to bid such equipment as hacksaw blades, disposable blankets, shovels, sledge hammers, nails, etc.

We have added an additional \$3,000.00 equipment allowance for this extra equipment. If the department would like to purchase this equipment from a local equipment dealer, we would be happy to provide the department with a check for \$3,000.00 to pay for this equipment.

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One (1)
1B-00-0500

WARRANTY

We warrant each new motorized fire apparatus manufactured by CENTRAL STATES FIRE APPARATUS for a period of ONE YEAR from the date of delivery, except for chassis and other components noted herein.

Under this warranty we agree to furnish any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, at the option of CENTRAL STATES FIRE APPARATUS, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to defective material or workmanship.

The warranty on the chassis and chassis supplied components, storage batteries, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the manufacturer by the customer.

This warranty will not apply to any fire apparatus that has been repaired or altered outside our factory in any way, which in our opinion might affect its stability or reliability.

This warranty shall not apply to those items that are usually considered normal maintenance and upkeep services: including, but not limited to, normal lubrication or proper adjustment of minor auxiliary pumps or reels.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability in connection with the sales of our apparatus unless made in writing by CENTRAL STATES FIRE APPARATUS.

One (1)
1B-00-2500

5 YEAR ALUMINUM BODY WARRANTY

Central States Fire Apparatus LLC (CSFA) warrants to the original purchaser only, that the all aluminum body, fabricated by Central States Fire Apparatus, under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a period of FIVE (5) years.

This warranty does not apply to the following items that are covered by a separate warranty: paint finish, hardware, moldings, and other accessories attached to this body. In addition, this warranty does not apply to any part or accessory manufactured by others and attached to this body.

CENTRAL STATES FIRE APPARATUS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE ALUMINUM BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND HEREBY DISCLAIMED.

Central States Fire Apparatus will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Central States Fire Apparatus elects to

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repair this body, the extent of such repair shall be determined solely by Central States Fire Apparatus, and shall be performed solely at the Central States Fire Apparatus factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

Central States Fire Apparatus will not be liable for damages and under no circumstances will its liability exceed the price for a defective body. The remedies set forth herein are exclusive and in substitution for all other remedies to which the purchaser would otherwise be entitled.

Central States Fire Apparatus will be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach hereof, within twelve months from the date the cause of the action occurred.

One (1)
1B-00-3500

PAINT WARRANTY

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser.

The areas as outlined on the Guarantee Certificate, will be covered for the following paint failures:

GUARANTEE INCLUSIONS:

FULL APPARATUS BODY MANUFACTURED AND PAINTED BY CENTRAL STATES FIRE APPARATUS:

- * Peeling or delamination of the topcoat and/or other layers of paint.
- * Cracking or checking.
- * Loss of gloss caused by cracking, checking, or hazing.
- * Any paint failure caused by defective PPG Fleet Finishes which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.