

Farmington F.P.D., CA

One (1)
BS-10-3100

CHASSIS TO BE SUPPLIED BY FIRE DEPARTMENT.

The Fire Department shall furnish the chassis for the following apparatus.

The chassis shall be a GMC TC5500 Crew Cab 4x4 or equivalent.

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-50-6000

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-65-0400

ALTERNATOR

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

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One (1)
KB-02-0200

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.

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. To fully protect the wheel well area from road debris and to aid in cleaning, a full depth radius wheel well liner shall be provided. 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-02-0300

CS 1/8" ALUMINUM BODY

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

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One (1)
KB-02-0420

COMPARTMENT FLOORS

The compartment floors shall be constructed of smooth aluminum material, to match the compartment interior walls.

One (1)
KB-10-5140

BODY DIMENSIONS

Apparatus body shall be up to 144" 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.

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 double break formed painted smooth plate that is welded in place.

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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-02-0612

WHEEL WELL LINER

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25.00") radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum material to prevent corrosion.

One (1)
KK-02-3900

REAR TOW EYES

There shall be two (2) tow eyes furnished at the rear of the body above the tailboard and attached directly to each chassis frame rail. The tow eyes shall be constructed of 5/8" plate steel with a 4" I.D. hole, large enough for passing through a tow chain end hook.

One (1)
KK-02-5000

RECEIVER HITCH

There shall be a 2" receiver hitch assembly attached to the rear of the apparatus directly below the rear step. The receiver shall be connected to the chassis and body sub frame assembly.

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-03-0070

SIDE BODY COMPARTMENT ROLL-UP DOOR CONSTRUCTION

Exterior side equipment compartments so specified shall be equipped with roll-up shutter doors to be installed as specified herein.

The drum assembly shall be fully enclosed and protected from the elements. Pendent plates supporting the door roll assembly shall be bolted in place, adjustable and capable of being removed with common hand tools. Pendent plates and supports that are welded in place do not meet the maintenance and service criteria of these specifications.

One (1)
KK-03-0071

NATURAL FINISH ROLL UP DOORS

The roll-up doors on each side of the apparatus body shall be natural finish aluminum.

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One (1)
KK-03-0080

ROLL UP DOORS

R.O.M. Robinson brand extruded aluminum shutter style doors with lift bar latch mechanisms and associated hardware shall be provided and installed as specified.

Seven (7)
KK-03-0092

EXTERIOR DOOR LOCKS

The roll-up door(s) shall be equipped with a keyed locking device.

One (1)
KK-06-3600

BODY COMPARTMENTS

Driver side and passenger side compartments shall be furnished as follows:

- One transverse compartment ahead of the rear wheels with full height roll-up door on each side. The lower level of the front compartments on each side shall be approximately frame deep with the upper level extending across the chassis frame rails.
- One transverse compartment above rear wheels with a roll-up door on each side.
- One compartment behind the rear wheels extending in depth to the rear compartment with full height roll-up door on each side.
- One compartment in rear of body extending in depth to the back wall of the overwheel compartment with roll-up door.

The lower level of the front and rear compartments on each side shall be approximately frame deep with the upper level extending across the chassis frame rails.

Top of all body compartments shall be fabricated of polished aluminum treadplate.

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-30-0100

REAR ACCESS LADDER

The top of the apparatus shall be accessible from the ground by ladder. The ladder shall be constructed of tubing and shall have a non-slip surface. The ladder will be located on the right rear of the apparatus.

One (1)
KL-30-0500

COFFIN COMPARTMENTS

There shall be "coffin" compartments, approximately 12-inches deep, located above the rescue body. There shall be two (2) compartments with hinged treadplate doors on each side of the body, with a walkway between the compartments. The compartment doors shall be hinged towards the outside of the body and have a positive latching handle. Each compartment door

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shall be equipped with shocks to hold the door in the open position. The area ahead of the coffin compartments shall be a recessed mounting area for the specified generator and light tower.

One (1)
KL-LF-0500

ROLL-OUT AND DOWN EQUIPMENT TRAY

Roll-out and down type equipment tray, one-half the depth of the body, shall be provided. Each roll-out and down tray shall be constructed of formed .125" aluminum and have extruded aluminum guide tracks on each side. The extrusion shall include a specially sized channel at both sides of the drawer for the installation of two (2) high quality stainless steel ball bearing rollers. These bearings shall provide support of the outside front of the tray. A second set of stainless steel ball bearing rollers shall be provided for the inside rear of the tray. These rollers shall be bolted to the rear of the drawer and shall slide on two (2) extruded aluminum tracks that are angled to provide an out and down action of the tray. Mounting of the drawer slide mechanisms shall be to the specified shelf tracks to allow for future adjustment and removal.

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 1000 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 slide-out tray shall be located on the floor above the frame of the transverse compartment at the front of the body (L1 & L2).

One (1)
KL-LO-0500

ROLL-OUT AND DOWN EQUIPMENT TRAY

Roll-out and down type equipment tray, one-half the depth of the body, shall be provided. Each roll-out and down tray shall be constructed of formed .125" aluminum and have extruded aluminum guide tracks on each side. The extrusion shall include a specially sized channel at both sides of the drawer for the installation of two (2) high quality stainless steel ball bearing rollers. These bearings shall provide support of the outside front of the tray. A second set of stainless steel ball bearing rollers shall be provided for the inside rear of the tray. These rollers shall be bolted to the rear of the drawer and shall slide on two (2) extruded aluminum tracks that are angled to provide an out and down action of the tray. Mounting of the drawer slide mechanisms shall be to the specified shelf tracks to allow for future adjustment and removal.

One (1)
KL-LO-0900

SLIDE-OUT TRAY

Slide-out tray, one-half the depth of the body, shall be constructed of 3/16" aluminum material and installed in the compartment. 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 250 pounds. The tray shall be half depth of the body and shall roll out of the compartment approximately 36-inches.

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One (1)
KL-RF-0500

ROLL-OUT AND DOWN EQUIPMENT TRAY

Roll-out and down type equipment tray, one-half the depth of the body, shall be provided. Each roll-out and down tray shall be constructed of formed .125" aluminum and have extruded aluminum guide tracks on each side. The extrusion shall include a specially sized channel at both sides of the drawer for the installation of two (2) high quality stainless steel ball bearing rollers. These bearings shall provide support of the outside front of the tray. A second set of stainless steel ball bearing rollers shall be provided for the inside rear of the tray. These rollers shall be bolted to the rear of the drawer and shall slide on two (2) extruded aluminum tracks that are angled to provide an out and down action of the tray. Mounting of the drawer slide mechanisms shall be to the specified shelf tracks to allow for future adjustment and removal.

One (1)
KL-RO-0500

ROLL-OUT AND DOWN EQUIPMENT TRAY

Roll-out and down type equipment tray, one-half the depth of the body, shall be provided. Each roll-out and down tray shall be constructed of formed .125" aluminum and have extruded aluminum guide tracks on each side. The extrusion shall include a specially sized channel at both sides of the drawer for the installation of two (2) high quality stainless steel ball bearing rollers. These bearings shall provide support of the outside front of the tray. A second set of stainless steel ball bearing rollers shall be provided for the inside rear of the tray. These rollers shall be bolted to the rear of the drawer and shall slide on two (2) extruded aluminum tracks that are angled to provide an out and down action of the tray. Mounting of the drawer slide mechanisms shall be to the specified shelf tracks to allow for future adjustment and removal.

One (1)
KL-RO-0900

SLIDE-OUT TRAY

Slide-out tray, one-half the depth of the body, shall be constructed of 3/16" aluminum material and installed in the compartment. 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 250 pounds. The tray shall be half depth of the body and shall roll out of the compartment approximately 36-inches.

One (1)
KL-S0-0100

BACKBOARD VERTICAL SLIDE-IN MOUNTING

Two (2) vertically mounted slide-in backboard track shall be installed. The upper and lower tracks shall be aluminum with plastic slide pads installed. The tracks shall be approximately 2" inside width x 76" deep x 19" high. (The backboards shall be supplied by the fire department).

One (1)
KM-49-1002

EXTERIOR COMPARTMENT FLOOR COVERING

All enclosed compartment floors with exterior opening doors on the apparatus body shall be covered with black colored rigid Turtle Tile for improved ventilation and added scuff protection for the compartment floor.

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One (1)
KM-49-1004

SHELF FLOOR COVERING

All shelving in compartments with exterior opening doors on the apparatus body shall be covered with black colored rigid Turtle Tile for improved ventilation and added scuff protection for the compartment floor.

Two (2)
KM-49-1604

ADJUSTABLE SHELVES

Compartment shelves shall be constructed of .125" smooth Aluminum. Shelves shall have formed edges on three sides for added strength. Shelves shall be fully adjustable, with extruded aluminum unistrut channels provided on the front and rear compartment walls.

Three (3)
KM-49-1615

SLIDE-OUT TRAY

Slide-out trays shall be constructed of 3/16" aluminum material. Trays 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.

Three (3) slide-out trays shall be provided and located as follows:

Compartment over the rear wheels on the driver's side, (L2) floor mounted,

Compartment over the rear wheels on the passenger's side, R2, floor mounted.

Compartment behind the rear wheels on the passenger's side (R3), floor mounted for the specified generator.

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.

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-04-0002

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:

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- The front face of each side compartment.
- The rear body face and vertical area.
- Driver's side and passenger compartment top extending down over side to the compartment doors then forming a drip rail above doors.
- Front face of hose bed above booster tank.

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

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 13-7.3. 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.

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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-00-2100

TAIL LIGHTS WHELEN LED

Two (2) Whelen 60R00XRR LED rectangular red stop/tail lights shall be provided and mounted at the rear of the body, one on each side.

One (1)
NA-00-3550

DIRECTIONAL LIGHTS WHELEN LED

Two (2) Whelen Model 60A00TAR amber arrow directional signal LED lights shall be provided and mounted at the rear of the body, one on each side below the stop/tail lights.

One (1)
NA-00-5100

BACKUP LIGHTS WHELEN LED

Two (2) Whelen Model 60C00WCR rectangular clear backup LED 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-00-5200

TAIL LIGHT TRIM

A polished cast aluminum three hole taillight bezel/housing shall be provided. The specified rear lighting units shall be installed in the bezel/housing and secured. The completed assembly is to be bolted to the apparatus body, one each side.

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One (1)
NA-00-5350

CLEARANCE LIGHTS

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

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-00-6300

LOAD MANAGER

The apparatus shall be equipped with a Kussmaul model 091-79 Automatic Load Shedding System for performing continuous electrical load management. The Load Manager shall have the following features:

- Monitor 12-volt system and detect low voltage.
- Capability to control two (2) loads.
- Automatic reset when voltage rises.
- Adjustable voltage setpoint.

The load manager shall be protected against reverse polarity and shorted outputs, and be enclosed in an enclosure to enhance EMI/RFI protection. CSFA shall provide for all electrical loads in excess of the NFPA minimum electrical requirements that exceed the alternator output.

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-01-1450

COMPARTMENT LIGHTS

Each compartment shall be provided with two (2) ROM strip lights mounting in the door track. Compartment lights shall switch on automatically when the compartment door is opened and switch off when the door is closed.

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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 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-02-7620

AUTO-EJECT

A Kussmaul "Super Auto-Eject" 20-amp 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 Super Auto-Eject shall be completely sealed to prevent contamination of the mechanism by inclement weather and road conditions. The Super Auto-Eject shall have an internal switch to open and close the A.C; circuit after the mating connector is inserted and before the connector is removed.

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.

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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.

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

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.

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-10-6100

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 switch on and off automatically when the cab doors are opened.

One (1)
NB-10-6900

UNDER BODY LIGHTING REAR STEP

There shall be two (2) lights furnished below the rear step, one on each side. The lights shall be wired to a switch located on the cab switch panel.

One (1)
NB-30-0500

CAB MOUNTED FOG LIGHTS

Two (2) chassis mounted fog lights shall be provided on the front of the chassis cab. The light shall be controlled through a switch in the chassis cab.

Two (2)
NB-30-1100

REAR SCENE LIGHT

There shall be a Weldon Model 2010, 12-volt 50-watt Scenelight provided and mounted at the rear of the body. Light shall be mounted on an 18-degree downward angled, polished aluminum casting. The light shall be wired through a switch in the chassis cab and be labeled "Rear Scene Light".

There shall be two (2) 12 volt scene lights on rear of the body.

Two (2)
NB-30-1200

DRIVER SIDE SCENE LIGHT

There shall be a Weldon Model 2010, 12-volt 50-watt Scenelight provided and mounted on the driver side of the body. Light shall be mounted on an 18-degree downward angled, polished

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aluminum casting. The light shall be wired through a switch in the chassis cab and be labeled "Driver's Side Scene Light".

There shall be two (2) 12 volt scene lights on the driver's side of the body, one at the front and one at the rear.

Two (2)
NB-30-1300

PASSENGER SIDE SCENE LIGHT

There shall be a Weldon Model 2010, 12-volt 50-watt Scenelight provided and mounted on the passenger side of the body. Light shall be mounted on an 18-degree downward angled, polished aluminum casting. The light shall be wired through a switch in the chassis cab and be labeled "Passenger's Side Scene Light".

There shall be two (2) 12 volt scene lights on the passenger's side of the body, one at the front and one at the rear.

One (1)
NB-30-9000

AUTOMATIC REAR SCENE LIGHT SWITCHING

The rear scene lights shall be wired to automatically switch on with the backup lights when the transmission is placed into the reverse gear.

One (1)
NB-40-0900

TRAFFIC DIRECTION BAR

A Whelen Model TA-850L traffic advisor light bar, 47" long with eight LED modules, shall be provided and mounted facing the rear of the apparatus with control console mounted in the truck cab.

One (1)
NB-40-0930

SURFACE MOUNTED TRAFFIC ADVISOR WITH SHIELD

The traffic advisor shall be surface mounted on the rear of the apparatus body. There shall be a shield installed directly above the traffic advisor that is approximately the same width and depth as the traffic advisor.

One (1)
NC-03-2000

ELECTRONIC SIREN

A Code 3 Model 3692 V-CON, 200-watt electronic siren with Hi-Lo and hardwired microphone shall be provided and mounted in the cab.

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.

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One (1)
NC-04-3200

HEADLIGHT FLASHER

The headlight circuit of the chassis shall be provided with a heavy-duty headlight flasher system designed for emergency vehicles. Flasher shall include override for high beam headlights and controlled by switch located on the electrical module in the chassis cab. Headlight flasher to be turned off when the park brake is set.

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-04-6500

LIGHT BAR

A Code 3 model 2158NFPA1 58" LED light bars mounted on chassis cab roof to meet the NFPA upper zone A lighting requirement. Light bar to have the following equipment.

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

One forward facing red light shall be steady burning to meet California DMV requirements.

One (1)
NE-05-1000

REAR LIGHTS

Four (4) Code 3 model 81X 9"x 7" 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.

- Red lens on each side facing light and one rear facing light.
- Amber lens on one rear facing light.

One (1)
NE-05-1099

UPPER, SIDE, FRONT LIGHTS

Two (2) Code 3 model 81X 9"x 7" LED lights mounted on FRONT upper corners of body. The lights shall be activated through the master emergency light switch located on the electrical console. Both lights to be red in color.

One (1)
NE-05-2105

Lower Zones "A", "B", "C", "D" Emergency Lighting

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.

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One (1)
NE-05-5250

ZONE B & D SIDE LIGHTS

There shall be two (2) 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, and one light mounted as far to the rear as possible. The lights shall be connected to a power supply and be activated through the master emergency light switch located on the electrical console.

Color of lights to be red.

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.

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

One (1)
OA-35-0082

HYDRAULIC GENERATOR SYSTEM

Generator

There shall be a Hart-A-Gen Twelve (12) kW hydraulic generator system producing 12,000-watts at 120-VAC furnished and installed on the apparatus. The pump is to be connected to the transmission PTO and shall be capable of producing fully rated output between 600-3200-RPM.

The generator system shall have a five-(5) year/1500-hour warranty.

The generator system must produce stable voltage (within 3% regulation) and frequency (within 1.5 Hz) from engine idle of 600-RPM to engine high speed of 3200-RPM.

The generator system must produce stable frequency regardless of fluctuations in either applied electrical load or engine RPM. The alternator shall have an hour meter on its housing.

The THC (Total Harmonic Content) of the voltage waveshape shall not exceed 10% when measured from line to neutral. An oscilloscope recording of the systems voltage waveshape, along with computer printout of THC data, must be provided with the system upon delivery of the completed unit.

The generator tray shall be capable of being mounted at any elevation on the apparatus.

Hydraulic System

A cooler using a low amperage (less than 20-amps) D.C. fan motor or a low amperage (less than 2.5 amps) AC fan motor shall be provided. The cooler must be a dual circuit cooler, with one circuit used to cool the main loop circuit, and the other circuit used to cool the motor case drain and the pump case drain.

Coolers utilizing forward-curve blower wheels (squirrel cage) rated below 4200-RPM and connected directly to the alternator shaft (turning 3600 RPM or greater) shall not be acceptable.

The reservoir shall be fabricated of stainless steel and must have the capability of being mounted separate from the generator system. The reservoir must not be limited by vertical clearance above the reservoir other than 3-4 of clearance required for filling purposes. The reservoir shall have a fluid low-level switch and a fluid temperature switch. The reservoir must require less than five (5) gallons of hydraulic fluid.

The pump case drain and the motor case drain must be routed to the reservoir to prevent backpressure build up on the pump or motor.

The filter must be capable of removing particle contamination down to a 3-micron level.

One (1)
OA-35-0094

GENERATOR WARNING LIGHTS

The hydraulic drive system for the generator shall be equipped with warning lights to monitor the fluid temperature of the hydraulic system. The high fluid temperature warning light and label shall

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be located adjacent to the generator quad meter in clear view of the operator. The warning light shall automatically illuminate in the event of high fluid temperature.

One (1)
OA-35-0112

CIRCUIT BREAKER PANEL

A circuit breaker panel shall be provided and mounted with twenty (20) manual reset circuit breakers properly labeled.

A portable generator shall be connected to the circuit breaker panel with S/O cord and quick disconnect plug. A permanent mount generator shall be hard wired to the circuit panel.

The circuit breaker panel shall be located in a compartment as close to the generator as practical, and mounted to not interfere with shelves or trays if specified. Breaker panel cover shall be accessible with hand tools.

One (1)
OA-35-0120

All AC wiring to be installed in liquid tight conduit.

One (1)
OA-35-0145

GENERATOR MOUNTING

The generator shall be mounted in the dunnage compartment

One (1)
OA-35-0190

QUAD METER

The "Quad Meter" containing the volt, amp, frequency and hour meters, shall be mounted in an enclosed compartment with the circuit breaker box, which is connected to the generator system. The "Quad Meter" is an analog gauge.

One (1)
OA-35-0400

DRIVER SIDE 110 VOLT RECEPTACLES

All 110-volt receptacles shall be provided with weather proof covers. Receptacle shall be mounted on the driver side rear wheel well area of the apparatus body.

One (1)
OA-35-0500

PASSENGER SIDE 110 VOLT RECEPTACLES

All 110-volt receptacles shall be provided with weather proof covers. Receptacles shall be mounted on the passenger side rear wheel well area of the apparatus body.

Two (2)
OA-35-0700

REAR BODY 110 VOLT RECEPTACLES

All 110-volt receptacles shall be provided with weather proof covers. Receptacle shall be mounted on the rear area of the apparatus body.

There shall be two (2) 110 volt receptacles mounted above the rear step at the rear of the body, one each side.

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One (1)
OA-37-4000

ELECTRIC CORD REEL

A Hannay Model ECR1616-17-18 electric rewind cord reel(s) shall be supplied and installed in a compartment on the apparatus body, location to be determined at preconstruction conference. The cable reel(s) shall be a 12-volt electric rewind type complete with a push button rewind switch, properly labeled.

One (1)
OA-37-6600

ELECTRICAL CORD

150-Feet of 12/3 SO cord shall be installed on each reel complete with a HS-3 ball stop and female receptacle.

One (1)
OA-37-8000

LIGHTED JUNCTION BOX

There shall be an Extenda-Lite model EJB electrical junction box provided. The electrical junction box shall be a heavy duty cast aluminum that has at least one-quarter of an inch thick walls and the four corner edges shall be at least three quarters of an inch (3/4") thick to withstand the roughest of handling. The carrying handle shall be large enough to fit a fully gloved hand and be an integral part of the body casting. Each side of the electrical junction box shall be fitted with a quarter of an inch (1/4") thick polypropylene faceplates. The faceplates shall be back lighted so that plug orientation to the receptacle is quick and easy to align. Each electrical junction box shall be equipped with four (4) electrical receptacles (two on each side) as specified by the user. Each receptacle shall be equipped with a spring loaded snap cover that is marked in white lettering with that receptacles voltage and ampere rating. All electrical receptacles, plugs and snap type weather proof covers shall be UL listed components

One (1)
OA-37-8500

CAPTIVE ROLLERS FOR CORD REEL

There shall be a captive roller system furnished for the cord reel. The roller mounting brackets shall be attached to guide the cord on and off the reel assembly.

One (1)
OA-39-2100

FLUSH MOUNT QUARTZ LIGHTING

A 750-watt quartz light shall be flush mounted on the driver side, front upper corner of the apparatus body, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be Fire Research Focus model #FCA200-S75.

Light shall be controlled by a switch located on the electrical breaker panel.

One (1)
OA-39-2300

FLUSH MOUNT QUARTZ LIGHTING

A 750-watt quartz light shall be flush mounted on the driver side, rear upper corner of the apparatus body, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be Fire Research Focus model #FCA200-S75.

Light shall be controlled by a switch located on the electrical breaker panel.

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One (1)
OA-39-2400

FLUSH MOUNT QUARTZ LIGHTING

A 750-watt quartz light shall be flush mounted on the passenger side, front upper corner of the apparatus body, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be Fire Research Focus model #FC200-S75.

Light shall be controlled by a switch located on the electrical breaker panel.

One (1)
OA-39-2600

FLUSH MOUNT QUARTZ LIGHTING

A 750-watt quartz light shall be flush mounted on the passenger side, rear upper corner of the apparatus body, wired to the 110-volt power source. The light shall be UL listed as "Scenelights for Fire Service Use". Light shall be Fire Research Focus model #FCA200-S75.

Light shall be controlled by a switch located on the electrical breaker panel.

Two (2)
OA-42-0120

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 750W/110V FOCUS.

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)
OA-42-0220

TELESCOPING QUARTZ LIGHTING

A quartz light shall be provided and mounted on the apparatus, wired to the 220-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 1500W/220V FOCUS.

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.

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One (1)
OB-50-1020

The telescoping pole shall be Fire Research model 530.

LIGHT TOWER

There shall be a remote operated light tower furnished and installed on the apparatus. The light shall be a Will-Burt model NS6-3600M with the following features:

- Four (4) 900-Watt, 220-volt Halogen Light Fixtures.
- Extension height of 6 feet.
- Capability of full extension in approximately 55 seconds.
- Automatic park procedure.
- Pistol Grip remote control.
- All electric 12 VDC actuator assembly.

One (1)
OB-51-0300

LIGHT TOWER MOUNTING

The light tower shall be mounted on the apparatus body.

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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.

Six (6)
PA-01-0010

NATURAL FINISH ROLL UP DOORS

The roll-up doors on each side of the apparatus body shall be a natural finish aluminum.

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-01-1505

INTERIOR COMPARTMENT FINISH

The interior vertical walls of the apparatus compartments shall have a smooth swirl finish.

One (1)
PA-01-3510

NO WHEEL PAINTING

The exterior faces of the front and rear wheels shall be as supplied with the chassis.

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One (1)
PA-01-4500

PAINT BODY TO MATCH CHASSIS

The apparatus body to be painted to match the chassis.

One (1)
PA-02-1910

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 fifty (50) letters.

One (1)
PA-02-1919

There shall be twelve (12) inch high letters supplied on the chassis cab roof for Unit Designation.

One (1)
PA-02-2600

LETTERING SHALL BE AS FOLLOWS

Lettering shall be determined prior to construction.

One (1)
PA-02-4010

REFLECTIVE SAFETY STRIPE

A 4" wide 3M brand Scotchlite #680-10 reflective stripe shall be affixed to the perimeter of the vehicle. 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 side stripe shall be applied straight across the body.

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.

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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 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 on parts, service and maintenance 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)
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.

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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 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.