

Rosenbauer Central Division

15127 Demo

One (1)

== COMMERCIAL PUMPER - 531.080 05/31/09 ==

One (1)
00-01-1000

FIRESTAR COMMERCIAL PUMPER 750 & 1000 TANKS

S One (1)
00-00-1300



DATE:

Prepared For:

DEPARTMENT NAME:

ADDRESS:

CITY/STATE/ZIP:

FIRE CHIEF:

DEPARTMENT CONTACT:

PHONE:

FAX:

CELL PHONE:

EMAIL ADDRESS:

CHASSIS MAKE:

MODEL:

ENGINE:

TRANSMISSION:

WHEELBASE:

MAXIMUM OVERALL HEIGHT:

MAXIMUM OVERALL LENGTH:

One (1)

10003-0001

02/19/10

Rosenbauer Central Division

15127 Demo

01-06-0500

CENTER OF GRAVITY

The apparatus, prior to acceptance, will be required to meet the vehicle stability of the applicable NFPA Automotive Fire Apparatus Standard.

A calculated center of gravity shall be provided. The calculated or measured center of gravity (CG) shall be no higher than 80-percent of the rear axle track width.

One (1)
01-16-0150

BUMPER TO BUMPER WARRANTY

We warrant each new motorized fire apparatus manufactured by ROSENBAUER AMERICA, LLC 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 ROSENBAUER AMERICA, LLC, 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 ROSENBAUER AMERICA, LLC.

10003-0001

02/19/10

Rosenbauer Central Division

15127 Demo

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01-19-0650

GALVANNEAL BODY WARRANTY - FIVE YEAR

ROSENBAUER AMERICA, LLC warrants to the original purchaser only, that the all galvanized body, fabricated by ROSENBAUER AMERICA, LLC, under normal use and with reasonable maintenance, will 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.

ROSENBAUER AMERICA, LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE GALVANNEAL BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

ROSENBAUER AMERICA, LLC 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 ROSENBAUER AMERICA, LLC elects to repair this body, the extent of such repair shall be determined solely by ROSENBAUER AMERICA, LLC, and shall be performed solely at the 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.

ROSENBAUER AMERICA, LLC will not be liable for consequential 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.

ROSENBAUER AMERICA, LLC 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.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

Rosenbauer Central Division

15127 Demo

One (1)
01-20-0250

PAINT WARRANTY FIVE YEAR

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 Rosenbauer America. LLC:

1. Peeling or delaminating of the topcoat and/or other layers of paint.
2. Cracking or checking.
3. Loss of gloss caused by cracking, checking, or hazing.
4. 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.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

One (1)
09-00-0000

FIRESTAR CHASSIS

One (1)
09-01-0210

FREIGHTLINER M2 CONVENTIONAL CHASSIS

ENGINE AND ENGINE EQUIPMENT:

- 300HP Engine
- EPA /Carb emission certification
- Engine mounted oil check & fill
- One piece valve cover

10003-0001

02/19/10

Rosenbauer Central Division

15127 Demo

- Side of hood air intake with NFPA compliant ember screen and fire retardant Donaldson Air Cleaner
- Leece Neville 12volt 270 amp 4949PA pad mounted alternator
- Two (2) Alliance 1231 Group 31 12volt MF 2200CCA threaded stud batteries
- Battery box frame mounted
- Frame ground return for battery cable
- No clutch
- Compressor with internal safety valve
- Steel air compressor discharge line with integral quick connect system charging valve
- GVG, Fire & Emergency services vehicles engine warning
- No Retarder
- Single horizontal muffler w/horizontal tail pipe exhaust, right hand mount
- Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch
- Horton Drivemaster on/off engine fan clutch
- Automatic control w/dash switch and indicator light
- Spin on Fuel filter
- Oil filter
- No Coolant filter
- Aluminum radiator
- Antifreeze to -34F, ethylene glycol pre-charged SCA heavy duty coolant
- Rubber coolant hoses
- Constant tension hose clamps for coolant hoses
- Lower radiator guard
- Aluminum flywheel housing
- Electric grid air intake warmer
- Delco 12volt 38MT HD starter with integrated magnetic switch

TRANSMISSION AND EQUIPMENT:

- Allison 3000 series automatic transmission w/PTO provision for fire/emergency
- WTEC Transmission programming - 5 speed fire & emergency
- Electronic transmission customer access connector firewall mounted
- Magnetic plugs, engine drain, transmission drain, axles fill & drain
- Push button, electronic shift control, dash mounted
- Water to oil transmission cooler in radiator end tank
- Transmission oil check and fill with electronic oil level check

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FRONT AXLE AND SUSPENSION:

- AF 12.0-3 12,000 FF1 71.5 KPI/3.74 drop single front axle
- Meritor 16.5 x 5 Q+ cast spider cam front brakes, double anchor fabricated shoes
- Fire and emergency severe service non asbestos front lining
- Conmet cast iron front brake drums
- Front brake dust shields
- Chicago rawhide scotseal plus XL front oil seals
- Vented front hub caps oil
- Standard spindle nuts for all axles
- Meritor automatic front slack adjusters
- TRW THP60 Power Steering
- Power Steering pump
- 2 Quart see through power steering reservoir
- 12,000# taper leaf front suspension
- Maintenance free rubber bushings front suspension
- Front shock absorbers
- 11R22.5 14 ply radial front tires
- Goodyear G149 RSA 11.R22.5 14 ply radial front tires
- Conmet pre set bearing aluminum front hubs
- Accuride 28408 22.5X8.25 10-hub pilot 2-hand steel disc front wheels

REAR AXLE AND EQUIPMENT:

- ARS 23.0-4 23,000# R-series single rear axle
- 5.22 Axle ratio
- Iron rear axle carrier w/standard axle housing
- 17T Meritor main driveline with half round yokes
- Meritor 16.5 x 7 "Q+" cast spider cam rear brakes, double anchor, fab shoes
- Fire & emergency severe service, non-asbestos rear lining
- Brake cams and chambers on forward side of drive axle
- Conmet cast iron rear brake drums
- Rear brake dust shields
- Chicago Rawhide Scotseal rear oil seals
- Haldex Goldseal longstroke drive axle spring parking chambers
- Meritor automatic rear slack adjusters
- 23,000# flat leaf rear spring suspension with radius rod
- Spring suspension - no axle spacers
- Standard U-bolt pad
- Fore/aft control rods
- Goodyear G164 RTD 11R22.5 14 ply radial rear tires

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15127 Demo

- Conmet preset bearing iron rear hubs
- Accuride 28408 22.5 x 8.25 10-hub pilot 2-hand steel disc rear wheels

BRAKE SYSTEM EQUIPMENT:

- Air brake package
- Wabco 4S/4M ABS w/o traction control enhancement
- Reinforced nylon, fabric braid & wirebraid chassis air lines
- Standard brake system valves
- Relay valve w/5-8 PSI crack pressure, no rear proportioning valve
- BW AD-9 brake line air dryer w/heater
- Steel air brake reservoirs
- BW DV-2 auto drain valve w/o heater - all tanks

TRAILER CONNECTION:

- No trailer air hose
- Upgraded Cab multiplexing unit

FRAME:

- 11/32" x 3-1/2" x 10-15/16" Steel frame (8.73MM x 277.8/.344" x 10.94) 120 KSI
- 1900 MM (75") rear frame overhang
- Square end of frame
- Standard weight engine crossmember
- Standard rear most crossmember
- Standard suspension crossmember

CHASSIS EQUIPMENT:

- Three-piece 14" painted steel bumper with collapsible ends
- Front tow hooks - frame mounted
- Bumper mounting for single license plate
- Clear frame rails - no protrusions outboard both rails BOC to rear suspension
- Grade 8 threaded hex-head frame fasteners

FUEL TANKS AND EQUIPMENT:

- 50 Gallon/189 liter rectangular aluminum fuel tank - left hand side
- Plain aluminum/painted steel fuel/hydraulic tanks with painted bands
- Fuel tanks forward
- Fuel tank cap
- Alliance fuel filter water separator
- Equiflo inboard fuel system

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15127 Demo

- Reinforced nylon fuel hose
- Fuel cooler

CAB EXTERIOR:

- A 106" BBC flat roof conventional cab
- Air cab mounts
- Painted plastic grille
- Argent silver hood mounted air intake grill
- Fiberglass hood
- Single electric horn
- All locks keyed the same
- Rear license plate mount at end of frame
- Integral headlight/marker assembly
- Five (5) amber marker lights
- Integral stop/tail/backup lights
- Standard front turn signal lamps
- Dual molded-in color west coast mirrors
- Door mounted mirrors
- 102" equipment width
- LH/RH 8" molded in color convex mirrors mounted under primary mirrors
- Right hand down view mirror
- Standard side/rear reflectors
- 63" X 14" tinted rear window
- Tinted door glass, left and right side with tinted non operating wing windows
- Manual door window regulators
- Tinted windshield
- 8 Liter windshield washer reservoir w/o fluid level indicator

CAB INTERIOR:

- Opal gray vinyl interior
- Molded plastic door panels
- Gray vinyl mats with insulation
- Forward roof mounted console with upper storage compartments
- Two (2) cup holders, left and right side of dash
- Heater, defroster and air conditioner
- Main HVAC controls with recirculation switch
- Standard heater plumbing
- Sanden compact air conditioner compressor
- Binary control R-134A
- Silencer package for cab

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15127 Demo

- Solid state circuit protection and fuses
- 12-Volt negative ground electrical system
- Dome light w/3-way switch activated by left and right hand doors
- Cab door latches with manual door locks
- Seats Inc 911 universal high back air suspension driver seat with NFPA compliant seat sensor
- Seats Inc 911 2-man high back non suspension passenger seat with NFPA compliant seat sensors.
- Left and right hand integral door panel arm rests
- 3 point high visibility orange retractor driver and passenger and 2 point high visibility orange retractor center front seat belts
- Fixed steering column
- 18" four spoke charcoal steering wheel
- Driver and passenger interior sun visors

INSTRUMENT PANEL AND CONTROLS

- Engine remote interface with park brake interlock
- Black gauge bezels
- Gray Instrument panel - Driver side
- Gray instrument panel - Center
- Low air pressure light and buzzer
- Primary & secondary air pressure gauges
- Engine compartment mounted air restriction indicator w/graduations, w/warning light in dash
- Cruise control - electronic engine, with switches in left hand switch panel
- Key operated ignition switch & integral start position; 4-position off/run/start/acc
- Odo/trip/hour/diagnostic/voltage display 1x7 char, 26 warning lamps, data linked ICU3
- Diagnostic interface connector, 9-pin, SAE J1587/1708/1939 located below dash
- Electric fuel gauge
- Electrical engine coolant temperature gauge
- Transmission oil temperature gauge
- Engine and trip hour meters integral within driver display
- Electric engine oil pressure gauge
- Electronic MPH speedometer w/secondary KPH scale w/o odometer
- Electronic tachometer 3000 RPM
- Digital voltage display integral with driver display
- Single electric windshield wiper motor w/delay
- Marker light switch panel integral w/headlight switch

Rosenbauer Central Division

15127 Demo

- One valve parking brake system with warning indicator
- Self cancel turn signal switch w/dimmer, washer/wiper & hazard in handle
- Integral electronic turn signal flasher with hazard lamps overriding stop lamps

PAINT DESIGNS

- Chassis cab shall be painted one solid color
- Front & rear wheels painted vendor white

One (1)
09-01-6100

HORIZONTAL CHASSIS EXHAUST

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

One (1)
09-01-4200

Chassis Cab Exterior Trim Pkg 2-Dr Comm Chassis

One (1)
09-01-4202

CAB STEPS

The existing cab steps on the left side of the commercial 2 door chassis shall be covered with slip resistant aluminum tread plate for compliance to applicable NFPA standards.

This option utilizes the existing cab steps. This option is NOT a fully enclosed overlay replacing the chassis supplied steps.

One (1)
09-01-4204

CAB STEPS

The existing cab steps on the right side of the commercial 2 door chassis shall be covered with slip resistant aluminum tread plate for compliance to applicable NFPA standards.

This option utilizes the existing cab steps. This option is NOT a fully enclosed overlay replacing the chassis supplied steps.

One (1)
10-02-1100 10

FLUID DATA PLAQUE

One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:

1. Engine oil

Rosenbauer Central Division

15127 Demo

2. Engine coolant
3. Chassis transmission fluid
4. Drive axle lubricant
5. Power steering fluid
6. Pump transmission lubrication fluid
7. Paint manufacturer and color numbers
8. Other NFPA applicable fluid levels or data as required

Location shall be in the driver's compartment or on driver's door.

One (1)
10-02-1200 10

APPARATUS DIMENSION DATA

One (1) highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area.

One (1)
10-02-1300 10

NO RIDE LABEL

One (1) "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.

One (1)
10-02-2100 10

CAB SEATING POSITION LIMITS

One (1) label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.

One (1)
10-02-2500 10

HELMET WARNING TAG

One (1) label shall be installed in the cab, visible from each seating position. The label shall read "DO NOT STORE HELMETS IN CAB WHILE VEHICLE IS IN MOTION." Helmets must be stored in a body compartment.

One (1)
10-03-6010

REAR TOWING PROVISIONS

There shall be two 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.

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15127 Demo

One (1)
80-43-2400

The tow plates shall be painted black.

One (1)
10-06-1600 10

TIRE PRESSURE INDICATOR

There shall be a tire pressure indicator at each tire's valve stem on the vehicle that shall

indicate if there is insufficient pressure in the specific tire.

One (1)
19-03-1000

DARLEY PSM SINGLE STAGE PUMP

A Darley model PSM single stage split-drive shaft driven fire pump shall be provided and installed.

The pump shall be midship mounted and designed to operate through an integral transmission, including a means for power selectivity to the driving axle or to the pump. The pump shall be driven by a driveline from the chassis transmission. The engine, transmission and driveline components shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance.

The pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates, and to help reject engine heat from engine coolant, providing longer life for the engine.

Pump Shaft

The pump shaft shall be precision ground stainless steel with long wearing Chromium Oxide hard coating under the packing glands with a hardness level of Rockwell C72. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsion vibration, and torque imposed by engine, as well as ease of maintenance and repair.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. Sleeve bearings on any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

Rosenbauer Central Division

15127 Demo

Impeller

The impeller shall be a high strength bronze alloy of mixed flow design, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shall be vacuum cast designed for maximum lift and highest capacity. The seal rings shall be renewable, double labyrinth, wrap around bronze type.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

Pump Transmission

The transmission case shall be heavy duty cast iron. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. Transmission case interior shall be powder coated to reduce oil contamination. Transmission case shall be equipped with a removable plate for quick inspection of gears, shafts, and bearings inside the transmission.

The pump drive shaft shall be precision ground, heat treated alloy steel, with a minimum 2-1/2" x 10" spline. The net through-torque rating of the gearbox shall exceed 19,000 foot pounds. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The gears shall be manufactured from alloy steel and carburized for surface hardness and strength.

The pump clutch gear shall be a heat treated alloy-steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear, and shall have bullet-nosed teeth to reduce the possibility of a butt-tooth condition. The pump clutch gear shall be separate from the main drive gear in order to maintain the greatest precision for driving the pump gear train. The pump transmission shall require no further lubrication beyond that provided by the intrinsic action of the gears, to reduce the likelihood of failure due to loss of auxiliary lubrication.

Driveline Installation

The chassis drivelines shall be sized for intended application and torque requirements. The installation shall comply with driveline manufacturer's guidelines.

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15127 Demo

Manuals

Two (2) manuals covering the fire pump transmission and fire pump shall be provided with the apparatus.

One (1)
01-17-0150

FIRE PUMP WARRANTY

A five (5) year warranty for the Darley fire pump shall be provided.

One (1)
19-03-1100

1500 GPM FIRE PUMP SPECIFICATIONS

The centrifugal type fire pump shall be a Darley model PSM midship mounted with a rated capacity of 1500 GPM. The pump shall meet NFPA 1901 requirements.

The pump shall be certified to meet the following deliveries:

1500 GPM @ 150 PSI
1500 GPM @ 165 PSI
1050 GPM @ 200 PSI
750 GPM @ 250 PSI

One (1)
22-03-1650

LEFT SIDE -- 6" UNGATED INTAKE

One (1) 6" un gated suction intake shall be installed on the left side pump panel to supply the fire pump from an external water supply. The threads shall be 6" NST. The intake shall be provided with a removable screen.

One (1)
22-41-6000

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)
22-03-2650

RIGHT SIDE -- 6" UNGATED INTAKE

One (1) 6" un gated suction intake shall be installed on the right side pump panel to supply the fire pump from an external water supply. The intake shall be provided with a removable screen.

One (1)
22-41-6000

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)

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15127 Demo

27-10-3250

PRESSURE GOVERNOR AND ENGINE-PUMP MONITORING

One (1) Fire Research InControl series TGA300 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 5 1/2" high by 10 1/2" wide by 2" deep. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- 1) Pump discharge; shown with four daylight bright LED digits more than 1/2" high
- 2) Pump Intake; shown with four daylight bright LED digits more than 1/2" high
- 3) Pressure / RPM setting; shown on a dot matrix message display
- 4) Pressure and RPM operating mode LEDs
- 5) Throttle ready LED
- 6) Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- 7) Check engine and stop engine warning LEDs
- 8) Oil pressure; shown on a dual color (green/red) LED bar graph display
- 9) Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- 10) Transmission Temperature: shown on a dual color (green/red) LED bar graph display
- 11) Battery voltage; shown on a dual color (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual

warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)

Rosenbauer Central Division

15127 Demo

- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control panel. There shall be an USB port located at the rear of the control module to upload future firmware enhancements.

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.

One (1)
20-05-2100

ADJUSTABLE INJECTION STYLE PACKING SPECIFICATION

The stuffing box is to be a single-plunger injection style, utilizing a plastallic, graphite composite packing that equalizes pressure around the shaft.

Packing renewal is performed by removing the plunger and inserting a pellet form of packing as needed.

Replacement of packing, or adjustment, should be able to be made within 15 minutes. This type of packing gland is desired in order to minimize friction, heat generation and apparatus down-time. Shaft seals or rope/braid-type packing gland design do not meet this requirement.

Rosenbauer Central Division

15127 Demo

One (1)
20-05-3150

POWER OPERATED MID-SHIP PUMP SHIFT SPECIFICATIONS

An air powered pump shift shall be installed in the cab driver's area where not subject to accidental engagement. The pump shift shall be air operated and shall incorporate an air cylinder with an electric actuated switch to shift from road to pump and back. The apparatus pump shift shall be engaged only when apparatus is in a stationary position and the parking brake is engaged.

The following indicator lights shall be included with pump shift.

1. A green indicator light, labeled "PUMP ENGAGED" shall indicate pump shift has successfully been completed.
2. A green indicator light, labeled "OK TO PUMP" shall indicate the chassis transmission is in pump gear and parking brake is engaged.
3. Pump shift and interlocks shall comply with applicable sections of NFPA standards.
4. The pump shift shall have an instruction label and nameplate to indicate function and proper operation.

One (1)
20-05-5150

ELECTRIC PRIMER SPECIFICATIONS

A 12 volt electrically driven positive displacement fire pump primer system shall be installed. The priming pump shall be constructed of heat treated aluminum and hard coat anodized and shall not use oil in the operation. The system shall perform in compliance to applicable NFPA standards.

A single, push-pull control shall be located on the pump operator's panel with a "Pull to Prime - Push to Close" label.

One (1)
20-30-5100

FIRE PUMP SPLIT SHAFT DRIVESHAFTS AND INSTALLATION

The mid-ship split shaft fire pump shall be installed and shall include installation of the fire pump, modification and/or fabrication of new drivelines and all pump-mounting brackets. The drive shaft(s) shall be spin balanced prior to final installation.

One (1)
20-31-1600

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Rosenbauer Central Division

15127 Demo

UNDERWRITERS LABORATORIES FIRE PUMP TEST

The pump shall undergo an Underwriters Laboratories Incorporated test per applicable sections of NFPA standards, prior to delivery of the completed apparatus.

The UL acceptance certificate shall be furnished with the apparatus on delivery.

One (1)
20-31-1550

FIRE PUMP TEST LABEL

A fire pump performance and rating label shall be install on the fire apparatus pump panel. The label shall denote levels of pump performance and testing completed at factory. These shall include GPM at net pump pressure, RPM at such level, and other pertinent data as required by applicable NFPA standards. In addition, the pressure control device, tank to pump flow tests, and other required testing shall be completed.

In addition, the entire pump, suction and discharge passages shall be hydrostatically tested to a pressure as required by applicable NFPA standards. The pump shall be fully tested at the pump manufacturer's factory to the performance specifications as outlined by applicable NFPA standards. Pump shall be free from objectionable pulsation and vibration.

If applicable, the fire pump shall be tested and rated as follows:

- 100% of rated capacity at 150 pounds net pressure.
- 70% of rated capacity at 200 pounds net pressure.
- 50% of rated capacity at 250 pounds net pressure.
- 100% or rated capacity at 165 pounds net pressure.

One (1)
20-31-6100

FIRE PUMP COOLING

The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "fire pump bypass cooler".

One (1)
20-31-6200

CHASSIS ENGINE HEAT EXCHANGER COOLING SYSTEM

The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations. A manually opened valve, mounted at the operator's panel, shall direct water from the fire pump

Rosenbauer Central Division

15127 Demo

to the heat exchanger that is mounted in the engine radiator cooling hose. The system shall provide cooling water from the fire pump to circulate around the engine radiator coolant without mixing or coming in direct contact with the engine coolant. The complete installation shall be done by the fire apparatus manufacturer.

A nameplate label shall be installed on the pump panel noting "engine cooling system" with "on-off" opening directions noted.

One (1)
21-00-0250

STAINLESS STEEL PUMP PLUMBING

One (1)
01-17-1100

STAINLESS STEEL PLUMBING WARRANTY

Subject to the provisions, limitations and conditions set forth in this warranty, Rosenbauer America, LLC (hereby referred to as "seller"), hereby warrants to each original purchaser only that stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of the delivery and shall terminate upon the transfer of possession or ownership by original purchaser.

This warranty is conditioned upon normal use and reasonable maintenance of such plumbing; prompt written notice of all defects to seller or one of the seller's then authorized dealers in the area; no repair or additions there to except by seller or authorized by it; said defect not resulting from misuse, negligence, accident, remount, overloading beyond applicable weight rating by customer or third parties. If any such conditions are not complied with, this warranty shall become void and unenforceable.

Should repairs become necessary under the terms or the warranty, the extent of that repair shall be determined solely by the seller and shall be performed solely at Rosenbauer America, LLC or a repair facility designated by the seller. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Seller reserves the unrestricted right at any time from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

Rosenbauer Central Division

15127 Demo

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURER'S WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OR IMPLIED WARRANTIES. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR WARRANTY ON BEHALF OF ROSENBAUER AMERICA, LLC OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURER'S WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HERIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES, WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

One (1)
21-00-1100

PUMP PLUMBING SYSTEM

The fire pump plumbing system shall be of rigid or flexible piping with stainless steel fittings. Victaulic couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

The fire pump and plumbing shall be hydrostatically tested in compliance to applicable sections of NFPA standards, with test results submit with the delivery documentation.

One (1)
21-01-5650

STAINLESS STEEL INTAKE MANIFOLD

The suction manifold assembly shall be fabricated with Schedule #10 type 304 stainless steel. All threaded fittings shall be a minimum of Schedule 10 stainless steel. The suction manifold assembly shall have radiused sweep elbows to minimize water turbulence into the suction volute. The suction manifold shall be welded and pressure tested prior to installation. The stainless steel manifold assembly shall be attached to the pump intake volute with a heavy-duty, flexible Victaulic coupling.

The stainless steel manifold assembly shall have a ten (10) year warranty.

One (1)
21-01-6650

STAINLESS STEEL DISCHARGE MANIFOLD

The discharge manifold assembly shall be fabricated with Schedule #10 type 304 stainless steel. All threaded fittings shall be a minimum of Schedule 10 stainless steel. The discharge manifold assembly shall have radiused sweep

Rosenbauer Central Division

15127 Demo

elbows to minimize water turbulence into the discharge header. The manifold shall be welded and pressure tested prior to installation. The stainless steel manifold assembly shall be attached to the pump intake volute with a heavy-duty, flexible Victaulic coupling.

The stainless steel manifold assembly shall have a ten (10) year warranty.

One (1)
21-01-0250

FIRE PUMP MASTER DRAIN

The fire pump plumbing system and fire pump shall be piped to a single push-pull type master pump drain assembly.

ADDITIONAL LOW POINT DRAINS

The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled.

One (1)
21-01-7300

PLUMBING SYSTEM

The plumbing system shall be unpainted.

One (1)
21-01-8100

HOSE THREADS

The hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intakes and discharges.

One (1)
22-52-0100

WATER TANK TO PUMP LINE

One (1) 3" water tank to fire pump line shall be provided with a full flow quarter turn ball valve, 4" piping, and with flex hose and stainless steel hose clamps. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.

The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.

One (1)
22-55-1150

The specified intake valve shall be equipped with one (1) manually operated pull rod, with quarter turn locking feature. The handle shall be equipped with color coded engraved type name plate.

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02/19/10

Rosenbauer Central Division

15127 Demo

One (1)
24-61-1860

The specified valve shall be a three-inch (3") valve with a stainless ball.

One (1)
23-02-2300

FIRE PUMP TO WATER TANK FILL LINE

One (1) 2" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 2" piping and flex hose to tank. The valve control handle shall have a nameplate located near the valve control.

One (1)
24-50-1150

One (1) manually operated pull rod, with quarter turn valve, with locking feature shall be provided on the specified discharge. The handle shall be equipped with color coded engraved type name plate.

One (1)
24-61-1820

The specified valve shall be a two-inch (2") valve with a stainless ball.

One (1)
22-09-1100

LEFT SIDE -- 2-1/2" GATED INTAKE

One (1) 2-1/2" gated suction intake shall be installed on left side pump panel to supply the fire pump from an external water supply. The control valve shall be a quarter turn ball valve and shall have 2-1/2" NST female thread of chrome plated brass.

The intake shall be equipped with a 3/4" drain and bleeder valve, controlled at the base of the pump panel. A nameplate label and removable screen shall be installed.

One (1)
22-41-1150

One (1) 2-1/2" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain or cable securement.

One (1)
22-55-2150

The specified intake valve shall be equipped with one (1) manually operated swing type manual control located adjacent the intake. The valve shall be equipped color coded engraved type name plate.

One (1)
22-80-0000

DISCHARGES

One (1)
23-06-2250

TWO (2) 1-1/2" CROSSLAY DISCHARGES

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02/19/10

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15127 Demo

Two (2) pre-connect 1-3/4" hose crosslays shall be installed over pump enclosure, with quarter turn 2" diameter ball valves. The outlets shall be a 2" NPT female swivel x 1-1/2" male NST hose threads.

The crosslay hosebeds shall have smooth aluminum sides. The hosebed decking shall be constructed with slots integrated into the hosebed floor.

Each hosebed shall provide for a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with nozzle, for hose provided by the fire department.

Two (2)
21-01-2150

A 3/4" quarter turn bleeder valves shall be installed on gated intakes and discharges larger than 1-1/2" in size.

Two (2)
24-51-1250

Two (2) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color coded engraved type name plate.

Two (2)
24-61-1820

The specified valve shall be a two-inch (2") valve with a stainless ball.

Two (2)
27-02-1150

Two (2) 2-1/2" pressure gauge rated at 0-400 Psi shall be provided. The gauge shall include a color coded label and be installed on the pump instrument panel. The face of the gauge shall have a white dial with black letters.

One (1)
23-08-3150

CROSSLAY HINGED COVER

The crosslay hosebed shall be equipped with a single aluminum diamond plate hinged cover. The cover shall have rubber bumpers, latching devices, and lift up handle on each end of the cover.

One (1)
23-08-4150

ROLLERS FOR CROSSLAY HOSE BED

The crosslay hosebed shall be equipped stainless steel "U" shaped roller system, one on each end of the hosebed.

One (1)
23-09-4200

LEFT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

10003-0001

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15127 Demo

One (1) 2-1/2" discharge shall be installed on the left side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads and a chrome plated elbow with rocker lugs with 2-1/2" NST swivel female x 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

One (1)
21-01-2150

A 3/4" quarter turn bleeder valves shall be installed on gated intakes and discharges larger than 1-1/2" in size.

One (1)
24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

One (1)
24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)
24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color coded engraved type name plate.

One (1)
24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a stainless ball.

One (1)
27-02-1150

One (1) 2-1/2" pressure gauge rated at 0-400 Psi shall be provided. The gauge shall include a color coded label and be installed on the pump instrument panel. The face of the gauge shall have a white dial with black letters.

One (1)
23-10-4200

RIGHT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The outlet shall have 2-1/2" NH male hose threads. A chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NH male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

One (1)
21-01-2150

Rosenbauer Central Division

15127 Demo

A 3/4" quarter turn bleeder valves shall be installed on gated intakes and discharges larger than 1-1/2" in size.

One (1)
24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

One (1)
24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)
24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color coded engraved type name plate.

One (1)
24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a stainless ball.

One (1)
27-02-1150

One (1) 2-1/2" pressure gauge rated at 0-400 Psi shall be provided. The gauge shall include a color coded label and be installed on the pump instrument panel. The face of the gauge shall have a white dial with black letters.

One (1)
23-10-5400

RIGHT SIDE PUMP PANEL -- 3" DISCHARGE

One (1) 3" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 3" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

One (1)
21-01-2150

A 3/4" quarter turn bleeder valves shall be installed on gated intakes and discharges larger than 1-1/2" in size.

One (1)
24-02-3400

One (1) chrome plated elbow with rocker lugs shall be provided with 3" NST swivel female x 3" NST male hose threads.

One (1)
24-03-3500

One (1) 3" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)

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02/19/10

Rosenbauer Central Division

15127 Demo

24-53-0710

One (1) Akron valve with a manually operated swing type and control at the top mount pump panel console shall be provided on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The discharge shall be equipped with a slow close device. The valve shall be equipped color coded engraved type name plate.

One (1)
24-61-1860

The specified valve shall be a three-inch (3") valve with a stainless ball.

One (1)
27-02-1150

One (1) 2-1/2" pressure gauge rated at 0-400 Psi shall be provided. The gauge shall include a color coded label and be installed on the pump instrument panel. The face of the gauge shall have a white dial with black letters.

One (1)
23-13-3250

REAR RIGHT SIDE -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side rear panel of the apparatus body and shall be controlled by a quarter turn ball valve on the pump panel. The discharge shall have 2-1/2" NPT x 2-1/2" NST male hose threads adapter with 30 degree slant. The outlet shall be equipped with an engraved nameplate label shall be installed adjacent the valve control handle.

One (1)
21-01-2150

A 3/4" quarter turn bleeder valves shall be installed on gated intakes and discharges larger than 1-1/2" in size.

One (1)
24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

One (1)
24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)
24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color coded engraved type name plate.

One (1)
24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a

10003-0001

02/19/10

Rosenbauer Central Division

15127 Demo

stainless ball.

One (1)
27-02-1150

One (1) 2-1/2" pressure gauge rated at 0-400 Psi shall be provided. The gauge shall include a color coded label and be installed on the pump instrument panel. The face of the gauge shall have a white dial with black letters.

One (1)
25-25-0200

WATER TANK - 1000 GALLON

The apparatus shall be equipped with a one-thousand (1000) gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe.

One (1)
25-44-1300

WATER TANK FILL TOWER

A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 1500 gallons total capacity.

One (1)
26-12-0000

SIDE MOUNT PUMP ENCLOSURE - PUMP PANELS - OPTIONS

One (1)
26-18-1000

TOP MOUNT PUMP ENCLOSURE

The top mount pump enclosure shall be removable and supported from the chassis frame rails. This enclosure will allow independent flexing of the pump enclosure from the body and allow for quick removal. The support structure shall be constructed of extruded aluminum tubing and angle. All pump intake discharge controls are to be mounted above the fire pump at a top mounted operator's control panel to provide around-the-truck visibility.

Access to the top mounted control panel shall be provided from both sides of the truck with a large full width walkway ahead of the control panel. The walkway and running boards shall be bolted in place and shall be constructed of slip-resistant NFPA compliant surfaces. There shall be four (4) rubber shock mounted lights furnished in the lower forward facing panel to illuminate the walkway.

Access to the plumbing area shall be provided from both sides of the truck with a large full width walkway ahead of the control panel. The fire pump, valves and controls shall be accessible for service and maintenance as required by applicable sections of NFPA standards. In addition, a removable

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15127 Demo

aluminum tread plate panel shall be provided on vertical surface on the front surface of the pump enclosure.

Access handrails shall be 1-1/4" in diameter extruded aluminum with chrome plated end brackets shall be provided and installed on each side, for easy access to the walkway.

Engine gauges and master pump gauges shall be mounted on the upper incline plane of the gauge and valve control panel. Both the upper gauge panel and lower valve control panel to be full width and completely removable for access to the pump compartment. The valve controls and individual pressure gauges to be located on the lower flat surface of the valve control panel.

All valves and control handles shall have removable escutcheons for easy valve service without removing the entire panel.

The following controls and equipment shall be provided on the pump panel or within the pump enclosure:

- 1) Electric primer.
- 2) Pump and plumbing area service lights.
- 3) Pressure control device and throttle control.
- 4) Fire pump and engine instruments.
- 5) Pump intakes and discharge controls.
- 6) Master intake and discharge gauges.
- 7) Tank fill control.
- 8) Tank suction control.
- 9) Water tank level gauge.
- 10) Pump panel lights.

Crosslay Installation

The dunnage area atop the pump enclosure shall be notched for the installation of a crosslay hose bed. The hosebed shall have smooth sides and removable grating under the hose area. Provisions shall be provided to secure hose and equipment per requirements of applicable NFPA standards.

One (1)
26-30-1500

LEFT SIDE RUNNING BOARD

The left pump panels shall be equipped with a side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

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15127 Demo

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance to applicable sections of NFPA requirements.

One (1)
26-30-1550

RIGHT SIDE RUNNING BOARD

The right pump panel shall be equipped with a side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance to applicable sections of NFPA requirements.

One (1)
26-31-5200

PUMP ENCLOSURE ACCESS DOOR -- RIGHT SIDE UPPER

A pump panel access door shall be provided on the upper right side of the side mount pump enclosure. The door shall be constructed of aluminum tread plate with push button type latches.

One (1)
26-35-1100

LEFT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the left hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts and nutserts.

One (1)
26-35-1200

RIGHT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the right hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts and nutserts.

One (1)
26-35-7100

PUMP PANEL -- TOP MOUNT

The left hand, right hand, and top mount pump panels shall be constructed of black thermoplastic coating aluminum material and be fastened to the pump enclosure with 1/4" stainless steel bolts.

One (1)
26-55-5000

LABELS

Safety, information, data, and instruction labels for apparatus shall be provided and installed at the operator's instrument panel.

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15127 Demo

The labels shall include rated capacities, pressure ratings, and engine speeds as determined by the certification tests. The no-load governed speed of the engine, as stated by the engine manufacturer, shall also be included.

The labels shall be provided with all information and be attached to the apparatus prior to delivery.

One (1)
26-55-5100

COLOR CODED PUMP PANEL LABELING AND NAMEPLATES

Discharge and intake valve controls shall be color coded in compliance to guidelines of applicable sections of NFPA standards.

Permanent type nameplates and instruction panels shall be installed on the pump panel for safe operation of the pumping equipment and controls.

One (1)
26-56-5105

MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE

Two (2) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood on the left side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

One (1)
26-56-5110

MIDSHIP PUMP PANEL LIGHTS -- RIGHT SIDE

Two (2) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood on the right side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

One (1)
26-56-5150

PUMP PANEL LIGHTS -- TOP MOUNT

Three (3) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood along the full width of the top mount pump panel. Each side the pump enclosure shall be two (2) lights with light hood, controlled by the switch on pump panel.

One (1)
26-56-5200

PUMP PANEL LIGHTS

One (1) of the pump panel lights shall be illuminated at the time the fire pump is engaged into operation. The remaining lights shall be controlled by a switch located on the operators instrument panel.

One (1)

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15127 Demo

27-01-4150

TEST TAPS

Test taps for pump intake and pump pressure shall be provided on the pump instrument panel and be properly labeled.

One (1)
27-35-2050

WATER TANK GAUGE

The apparatus shall be equipped with one (1) Class1 "Intelli-Tank" water tank level gauge and shall be installed on the pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank.

Each tank level gauge system shall include:

- 1) A pressure transducer mounted on the outside of the tank in an easily accessible area. Sealed foam tanks will require zero pressure vacuum vents.
- 2) Super bright LED 4-light display with a visual indication at nine accurate levels.
- 3) Weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power.

One (1)
43-00-4105

HOSEBED WIDTH

The width of the hosebed shall be 70".

One (1)
43-00-4150

ALUMINUM HOSEBED GRATING SINGLE AXLE

The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall have an anodized, radiused ribbed top surface. The slats shall be of widths approximately 3/4" high x 6" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.

One (1)
43-00-4300

VINYL HOSEBED COVER SINGLE AXLE

The apparatus shall be equipped with a vinyl hosebed cover with a weighted rear flap.

The cover, approximately 74" wide, shall be secured utilizing a Velcro fastening system at the front and sides of the hosebed body.

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15127 Demo

The color shall be:

One (1)
43-01-1012

MODULAR BODY

The apparatus body shall be designed and built using a computer aided drafting and three dimensional modeling program. This engineering program shall have finite element analysis capability, so the design can be studied and stress points identified. This will allow for a total design review to ensure the strongest and most durable body possible. The use of this engineering system will ensure accuracy and repeatability for service parts in the event of accidental damage. The body components shall be fabricated using CNC equipment to cut and bend the individual body parts.

1/8" ALUMINUM BODY

The compartment modules shall be fabricated using .125 5052H32 aluminum sheets. The individual compartment pieces shall be cut using a CNC high definition plasma or large cutting equipment. The pieces shall incorporate a "notch and tab" design. This design will ensure that all parts fit accurately. These compartment modules shall bolt to the subframe creating a completely independent modular body.

One (1)
43-00-0350

SUB-FRAME

The apparatus shall be designed using a structural subframe, designed as an independent assembly, separate of the chassis frame. This will allow for a totally modular body, capable of being remounted to a different chassis if the need arises. Designs which do not use a modular subframe assembly will not be allowed.

This subframe shall be designed using heavy duty 7 gauge steel and 5/8" steel plates to form a subframe capable of carrying the loads designated by the Fire Department. The subframe shall be designed to carry a minimum of 500 lbs per compartment, distributed. The subframe shall be powder coated before assembly to prevent corrosion. Subframes that are painted or undercoated will not be acceptable.

The subframe shall be assembled with "Huck" bolts to ensure maximum tightening and clamping force at all joints. It shall be bolted securely at the rear with a minimum of four (4) 5/8" grade 8 bolts on each side and mounted at the front using four (4) spring loaded assemblies and lateral guides to allow for maximum twist, yet keeping the body aligned on the chassis.

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The subframe shall consist of formed 7 gauge cross members, spaced no more than 16-inches apart, to adequately support the water tank. There shall be ¼” thick hard rubber channel pads covering the cross members, which will help prevent tank damage due to road shock. The tank shall be held in place by four (4) formed angle brackets, at least 3” high. These four brackets will prevent fore and aft and lateral movement of the tank. These cross members shall be attached to two (2) longitudinal 3x3 angles. These angles shall be at the ends of the cross members to allow the compartment to be attached and supported by these pieces. There shall be at least two down and out compartment supports under each compartment, ahead of and behind the rear wheels.

One (1)
46-00-1200

SUB-FRAME

The subframe shall have a powder coat finish.

One (1)
43-00-0420

SINGLE AXLE WHEEL WELL AREA

For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25”) radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum to prevent corrosion.

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)
43-00-5130

LADDER RACK, LADDERS AND PIKE POLES

An electric ladder rack shall be installed on the right side of the apparatus body, to carry the ladders in a horizontal position above the side compartments. Each electric cylinder shall be 12-volt operated and installed in an area that provides proper protection of the electric components.

Ladder rack shall be of the dual pivot arm design with stabilizing arms at the front and rear. Ladder rack assembly shall be located on the right side of the body, above the compartment area. There shall be an air operated safety lock provided with control switch on the right side pump operators panel. The ladder rack actuator control switch shall be weatherproof type and located on the right side pump panel in full view of the rack. A safety interlock will be

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15127 Demo

supplied to prevent operation of the rack when the upper compartment doors are open.

Flashing lights facing front and rear shall be installed on the rack and shall be illuminated whenever the rack is in the lowered position. The outward side of the equipment rack that protrudes beyond the body of the apparatus shall be striped or painted with reflective material.

Cast aluminum ladder brackets with chrome plated quick release type mounting clamps shall be provided which hold the ladders to the pivot arm assembly.

A red warning light shall be provided and mounted in the cab to warn the driver when ladder rack is not in the stowed position.

One (1)
43-08-0512

ROLLUP DOORS

The rollup doors shall be ROM manufacturing roll up doors.

One (1)
43-10-0000

LEFT SIDE BODY COMPARTMENTS

The left side body compartmentation shall be as follows:

One (1)
43-10-1200

LEFT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-10-3300

LEFT OVERWHEEL COMPARTMENT

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There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-10-5000

LEFT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-12-0000

RIGHT SIDE BODY COMPARTMENTS

The right side body compartmentation shall be as follows:

One (1)
43-12-1300

RIGHT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

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15127 Demo

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-12-3300

RIGHT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-12-5000

RIGHT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)

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15127 Demo

43-14-1000

REAR CENTER COMPARTMENT

There shall be one (1) full height compartment located at the rear of the apparatus. The compartment shall be equipped with a full height natural finish roll up door. The compartment shall be open to the rear side compartments, providing a transverse compartment at the rear of the truck.

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

One (1)
55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)
43-18-0600

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)
43-18-0700

SIDE AND REAR OVERLAYS

Overlay panels shall be constructed of 3003 polished aluminum treadplate. Polished aluminum overlay shall be provided and installed in all required areas of the apparatus body.

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

The rear of the apparatus shall be smooth finish, for the installation of chevron striping.

One (1)
43-18-1000

REAR STEP/TAILBOARD

10003-0001

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15127 Demo

A single piece .188 rear step/tailboard shall be furnished that is a minimum of 12.00" deep and full width of the apparatus body, from rub rail to rubrail.

The tailboard shall be provided with a removable casting on each corner for a pleasing appearance.

One (1)
43-19-3100

HANDRAIL REAR STEP

Two (2) extruded aluminum non-slip handrails, approximately 48" in length, shall be provided and mounted on the rear of the apparatus, one (1) on each side of the body.

Three (3)
43-19-4100

FOLDING STEP REAR

An 8" square folding step of chrome plated die cast aluminum shall be provided. The step shall comply to NFPA #1901 non-slip standards and shall be installed on the rear left side of the body.

One (1)
50-00-5000

12-VOLT ELECTRICAL SYSTEM

One (1)
50-03-1050

LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS

The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The electrical equipment installed by the apparatus manufacturer shall conform to current automotive electrical system standards, the latest Federal DOT standards, and the requirements of the applicable NFPA standards.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for the protected circuit. Voltage drops in all wiring from the power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be protected in a loom with a minimum 289 degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in

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15127 Demo

accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.

The wiring between the cab and body shall be joined using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All connections shall be crimp-type with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in a junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants and damage. Wiring shall be uniquely identified every three-inches (3") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA #1901 standards.

The electrical circuits shall be provided with low voltage overcurrent protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The overcurrent protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- a) Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located outside of the cab or body.
- b) The electrical wiring shall be harnessed or be placed in a protective loom.
- c) Holes made in the roof shall be caulked with silicone. Large fender

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15127 Demo

washers shall be used when fastening equipment to the underside of the cab roof.

- d) Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- e) A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- f) All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.

The warning lights shall be switched in the chassis cab with labeled switches in an accessible location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is applied, a "blocking right of way" system shall automatically activate per requirements of the applicable NFPA standards. All "clear" warning lights shall be automatically turned off upon application of the parking brake.

NFPA REQUIRED TESTING OF ELECTRICAL SYSTEM

The apparatus shall be electrically tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of the applicable NFPA standards. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes.

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15127 Demo

All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a failed test.

2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system is permitted during this test. However, if an alarm sounds due to excessive battery discharge, as detected by the system requirements in the NFPA standards, or a system voltage of less than 11.7 volts dc for more than 120 seconds is present, the test has failed.

4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts dc for a 12 volt system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA REQUIRED DOCUMENTATION

The following documentation shall be provided on delivery of the apparatus:

- a. Documentation of the electrical system performance tests required above.
- b. A written load analysis, including:
 1. The nameplate rating of the alternator.
 2. The alternator rating under the conditions.

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15127 Demo

3. Each specified component load.

4. Individual intermittent loads.

One (1)
50-12-5200

ROCKER SWITCH CONSOLE

One (1) switch console with individual rocker switches to control electrical equipment and emergency lighting shall be installed in the chassis cab dash area.

One (1)
50-15-3500

MASTER ELECTRIC SWITCH

One (1) master battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12 volt power supply from the battery system.

A green "Master On" light shall be provided. This light shall illuminate anytime the master switch is in the "ON" position.

One (1)
51-05-7100

ENGINE COMPARTMENT LIGHT

One (1) 12 volt incandescent light with switch shall be mounted in the engine enclosure.

One (1)
51-05-7200

PUMP ENCLOSURE LIGHTS

One (1) incandescent work light shall be provided in the pump enclosure. The control switch shall mounted on the light head.

One (1)
52-01-1800

BACK-UP ALARM

One (1) Ecco model #575 automatic electric back-up alarm shall be wired to the back-up light circuit, and mounted under the rear of the apparatus body.

One (1)
52-42-1000

VEHICLE DATA RECORDER

Apparatus shall be equipped with a Class1 "Vehicle Data Recorder (VDR) that is connected to the power train CAN (Controller Area Network) bus consisting of transmission (TCM), engine control (ECM) and anti-lock brake (ABS) modules mounted on the apparatus. The VDR will function per

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15127 Demo

NFPA 1901-2009 sections 4.11 (Vehicle Data Recorder) utilizing the power train s J1939 data.

The VDR data shall be downloadable by USB cable to a computer using either Microsoft TM or Apple TM Operating Systems using Class 1/ O.E.M. supplied reporting software.

One (1)
52-42-1010

SEAT BELT WARNING SYSTEM

Apparatus shall be equipped with a Class1 Seat Belt Warning System” (SBW) that is connected to the power train CAN (Controller Area Network) bus consisting of transmission (TCM), engine control (ECM) and anti-lock brake (ABS) modules mounted on the apparatus. The SBW will function per NFPA 1901-2009 14.1.3.10 (Seat Belt Warning) using the Class1 “Seat Belt Input Module” for seat occupied and belt status information.

The SBW system shall have the ability to use either normally open (NO) or normally closed (NC) switches (user selectable by “dip switches” at ground potential) for operation.

One (1)
52-42-1020

SEAT BELT WARNING DISPLAY

A small rocker style display shall be installed in the chassis cab for the seat belt warning system.

One (1)
53-01-1500

MARKER LIGHTS

Incandescent marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

One (1)
53-02-1500

LICENSE PLATE BRACKET

One (1) license plate bracket shall be provided at the rear bumper. The bracket shall have a light and shall be chrome plated.

One (1)
53-03-1450

TAIL LIGHTS

Two (2) Weldon Series 2010 tail/brake/turn lights shall be installed. The rectangular light shall be incandescent with a red lens.

One (1)
53-06-1450

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02/19/10

Rosenbauer Central Division

15127 Demo

BACKUP LIGHTS

Two (2) Weldon 2010 incandescent backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 7" x 8" and the lens color shall be clear.

One (1)
54-02-1700

CAB GROUND LIGHTS

Incandescent ground lights shall be installed under the cab doors.

One (1)
54-03-1150

PUMP PANEL GROUND LIGHTS

Two (2) incandescent ground lights shall be installed under the pump panel running boards. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

One (1)
54-03-1550

REAR STEP GROUND LIGHTS

Two (2) incandescent ground lights shall be installed under rear step of the apparatus.

One (1)
54-04-1999

The ground lights shall automatically activate when the parking brake is applied.

One (1)
54-10-1600

STEP LIGHT

One (1) incandescent step light with clear lens shall be installed on the rear step of the apparatus body.

One (1)
54-11-2100

The step/walkway light switch shall be installed and wired to the parking brake.

One (1)
54-12-2000

DECK LIGHTS

One (1) Unity Model #AG spotlight and one (1) Unity Model #AG floodlight, with 50 watt halogen bulbs shall be installed. The lights shall have an "on-off" switch.

One (1)
54-12-2020

DECK LIGHT MOUNTING

10003-0001

Rosenbauer Central Division

15127 Demo

The deck lights shall be installed at the rear of the hose bed.

One (1)
55-11-2000

DOOR OPEN/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 warning light shall also be attached to folding equipment racks and light towers as specified. The light shall be a flashing rectangular incandescent marker light with a red lens and shall be properly marked and identified.

One (1)
56-01-2000

ELECTRIC SIREN

One (1) Code 3 Model #3672 V-Con electronic siren shall be mounted in the cab. The unit shall feature an electronic air horn, wail, yelp, hyperyelp sound and shall have a hard wired microphone.

One (1)
56-02-2000

SPEAKER

One (1) Federal Signal DynaMax Model #MS100 speaker shall be installed.

One (1)
56-92-1000

EMERGENCY LIGHTING FIRESTARS

One (1)
57-03-4100

LIGHTBAR

One (1) Code 3 Model #2158NFPA2 lightbar shall be installed on the apparatus cab roof. The LED X2100 Series lightbar shall be 58" in length. The lens colors shall be red and clear.

One (1)
58-04-3100

LOWER FRONT WARNING LIGHTS

One (1) pair of Code 3 model #45 red LED lights shall be installed, one each side one the front of the chassis cab. The dimensions of the lights shall be 3" x 7".

One (1)
58-10-3100

INTERSECTION WARNING LIGHTS

One (1) pair of Code 3 model #45 red LED lights shall be installed one each side of the chassis cab. The dimensions of the lights shall be 3" x 7" and shall have a red lens.

Rosenbauer Central Division

15127 Demo

One (1)
58-37-3100

LOWER REAR SIDE WARNING LIGHTS

One (1) pair of Code 3 series 45 red LED warning lights shall be installed, one each side of the apparatus body, towards the rear of the body. The dimensions of the lights shall be 3" x 7".

One (1)
58-72-3000

UPPER REAR WARNING LIGHTS

One (1) pair of Code 3 model 550 rotating beacon halogen warning lights shall be installed, one each side on the upper rear of the apparatus body. The rotary light shall have a 50 watt halogen lamp with the total dimensions of the lights 6" x 6" and shall have one red lens and one amber lens.

One (1)
58-74-5300

REAR WARNING LIGHT MOUNTING

The upper rear lights shall be mounted on cast aluminum stanchions attached to the apparatus body, one on each side.

One (1)
58-82-3100

LOWER REAR WARNING LIGHTS

One (1) pair of Code 3 series 45 red LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 3" x 7".

One (1)
80-06-1000

BODY PAINT PROCESS

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 seam shall be caulked both inside and along the exterior edges with a urethane automotive sealant to prevent moisture from entering between any body panel.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG DX330) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG DX330) to remove any contaminants on the surface.

The first coating to be applied is a pre-treat self etching primer (PPG

Rosenbauer Central Division

15127 Demo

DX1787) (.5 to 1.0 dry film build) for maximum adhesion to the body material. The next two to four coats (depending on need) shall be an acrylic urethane primer surfacer (PPG K38). The film build shall be 4-6 mils when dry. The primer surfacer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure maximum gloss of the paint. The last step is the application of at least three coats of PPG Concept acrylic urethane two-component color (single stage). The film build being 2-3 mils dry. The single stage acrylic urethane, when mixed with component (PPG DCX61) catalyst shall provide a UV barrier to prevent fading and chalking.

All products and technicians are certified by PPG every two (2) years.

One (1)
80-06-1100

APPARATUS COLOR

The apparatus shall be _____ in color.

One (1)
80-06-3000

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.

One (1)
80-30-5000

INTERIOR COMPARTMENT FINISH

The apparatus side compartment interiors are to be painted with a spatter finish material. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The compartment shall be provided with two (2) coats of white epoxy. The compartments are then coated with a splatter paint top coat.

Compartment interiors that are wrinkle finished or are topcoat web painted do not meet the intent nor durability of this requirement and are not acceptable.

One (1)
80-40-2000

WHEEL PAINTING

The front and rear wheels shall be finish painted to match the apparatus body. Wheels shall be properly prepared and finished with primer coats and top coats as specified.

One (1)
80-44-1600

UNDERCOATING

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15127 Demo

The entire underside of the single axle apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, black in color.

One (1)
80-51-2000

CAB AND BODY STRIPE

A straight Scotchlite reflective stripe, 4" minimum in width, shall be applied horizontally around the cab and body in compliance with applicable NFPA 1901 standards. The purchaser shall specify the color and location of the stripe.

One (1)
80-51-3000

CHEVRON STRIPING

The entire rear portion of the body shall have a 3M reflective chevron style striping, applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.