

Rosenbauer Central Division

2897 FS Demo

One (1)

== TANKER - 1202.080 12/02/08 ==

One (1)
00-01-1300

FIRESTAR TANKER

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)

10034-0002

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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.

One (1)
01-19-0650

GALVANNEAL BODY WARRANTY - FIVE YEAR

10034-0002

01/14/10

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ROSENBAUER AMERICA, LLC warrants to the original purchaser only, that the all galvanneal 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.

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:

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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
- 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

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- 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

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

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- 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
- 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

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- 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
- 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

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- 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
- 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
- Full width bench seat
- 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

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- 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
- 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)
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
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

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One (1) highly visible label indicating the overall height, length, width 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)
10-03-6110

REAR TOWING PROVISIONS

There shall be two (2) tow eyes furnished at the rear of the body and attached directly to each chassis frame rail. The tow eyes shall be accessible above the rear tailboard. 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)
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)
19-03-3010

DARLEY HM SINGLE STAGE PUMP

A Darley model HM single stage fire pump shall be provided and installed.

Power to drive the pump shall be provided by the same engine used to propel the apparatus. The

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pump shall be midship mounted and designed to operate through a hot-shift transmission PTO. The pump is to be placed in gear from the chassis cab with a pump shift mechanism that is clearly labeled.

Pump casing shall be a fine grain cast iron, with a minimum tensile strength of 30,000 PSI. Pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle coolant 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.

Seal rings shall be renewable, double labyrinth, wrap around bronze type.

Pump Shaft

The pump shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine, as well as ease of maintenance and repair.

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.

Impeller

The impeller shall be a high strength bronze alloy, splined to the pump shaft for precision fit, durability, and ease of maintenance.

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 pump transmission case shall be heavy-duty cast iron with adequate oil reserve capacity to maintain low operating temperature. Pump ratio to be selected by the manufacturers engineering department. Gears shall be helical in design and precision ground for quiet operation and extended life. Gears to be cut from high strength alloy steel, ground, and carburized. Chain drive and/or design requiring extra lubricating pump is not acceptable.

Pump drive shaft shall be precision ground, heat-treated alloy steel, with a 1-3/8 spline. Gears shall be helical design, and shall be precision ground for quiet operation and extended life.

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

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)
19-03-3100

500 GPM FIRE PUMP SPECIFICATIONS

The centrifugal type fire pump shall be a Darley model HM with a rated capacity of 500 GPM. The pump shall meet NFPA 1901 requirements.

The pump shall be certified to meet the following deliveries:

500 GPM @ 150 PSI
500 GPM @ 165 PSI
350 GPM @ 200 PSI
250 GPM @ 250 PSI

One (1)
22-03-1350

LEFT SIDE -- 4" UNGATED INTAKE

One (1) 4" ungated 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 4" NST male threads.

The intake shall be provided with a removable screen.

One (1)
22-41-6100

One (1) 4" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)
27-10-3250

PRESSURE GOVERNOR AND ENGINE-PUMP MONITORING

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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)
- 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.

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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)
22-52-0200

WATER TANK TO PUMP LINE

One (1) 2-1/2" water tank to fire pump line shall be provided with a full flow quarter turn ball valve, 2-1/2" 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.

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)
22-80-0000

DISCHARGES

One (1)
23-09-4200

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

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.

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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)
24-50-1150

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)
24-61-1850

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

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)
24-50-1150

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)

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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)
25-25-0500

WATER TANK - 1800 GALLON

The apparatus shall be equipped with a one thousand eight-hundred (1800) gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe.

One (1)
25-44-1400

WATER TANK FILL TOWER

A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 3500 gallons total capacity.

One (1)
25-50-4200

DIRECT TANK FILL

One (1) 2-1/2" diameter direct tank fill inlet shall be provided, including a 2-1/2" female NH swivel, plug and screen.

The valve shall be located and controlled on the rear of body.

One (1)
25-62-7210

QUICK DUMP - REAR

One (1) Newton 10" quick dump valve shall be provided and externally mounted. The location shall be at the center rear of the apparatus.

One (1)
25-62-2100

One (1) manual operated lever control shall be used to open and close the rear dump valve.

One (1)
25-62-7610

The Newton dump valve installed on the water tank shall be painted grey.

One (1)
25-62-7700

One (1) swivel dump shall be fabricated with .125" aluminum and attached to the Newton Quick Dump.

The swivel dump shall have the ability to dump water from the driver's side or the officer's side and any point in between. The swivel dump is 70 inches long when fully extended. The swivel dump shall have an extension that is hinged and can be folded up when the dump is not in use. The dump shall have the ability to be stowed on either the driver's side or the officer's side of

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the truck. The latch that holds the extension in the stowed position shall also help support the swivel dump extension.

When the extension is in the down and extended position, there shall be no less than a 34 inch clearance from level ground to the bottom of the dump to ensure that there is enough clearance for the swivel dump to offload into all portable drop tanks.

The dump shall meet NFPA requirements for water delivery on three sides of the vehicle.

One (1)
26-12-0000

SIDE MOUNT PUMP ENCLOSURE - PUMP PANELS - OPTIONS

One (1)
26-12-3000

SIDE MOUNT PUMP PANEL

All pump suction and discharge controls are to be mounted on the driver side pump operator's panel so as to permit operation of the pump from a central location. The control panel shall be located in front of the left side lower compartment of the apparatus. Panel shall house pressure gauge and controls for the pump, including throttle. Panel shall have an anodized aluminum shield with adequate illumination for nighttime operation. The lights shall be controlled by the operator's panel light switch. The valve controls shall be neatly arranged for access and visibility. All controls shall be clearly marked with permanent type labels and color-coded. The electrical wiring and all gauge lines shall be properly tie wrapped to prevent kinking or cutting of the lines.

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

- 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.

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)
26-35-7000

PUMP PANEL -- SIDE MOUNT

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

The instrument area shall have a stainless steel continuous hinge that shall swing for easy access to gauges.

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.

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)
26-56-5100

MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE

Three (3) 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)
26-56-5200

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)
27-01-4150

TEST TAPS

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

One (1)
27-35-1150

WATER TANK GAUGE

One (1) Fire Research TankVision model WLA200-A00 tank indicator kit shall be installed on the pump panel. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of aluminum, and have a distinctive blue label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall place on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

One (1)
43-00-4100

HOSEBED WIDTH

The width of the hosebed shall be 68".

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.

The color shall be:

One (1)

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43-00-5310

PORTABLE WATER TANK MOUNTING BRACKET

There shall be one (1) folding tank storage carrier provided above the lower compartments to carry a portable folding tank. The tank carrier shall hold the folding tank in the vertical position for travel, and fold down over the lower body side for loading and unloading. The folding tank carrier shall be fabricated of one-inch square tubing and have a hinged bracket that is bolted to the top of the lower compartments with rubber stops to prevent the folding tank carrier from touching the body side when in the down position. There shall be a reinforcement plate installed on the compartment top where the folding tank carrier is attached. There shall be two (2) heavy-duty clamps provided to hold the tank in the travel position.

One (1)
43-02-1010

GALVANNEAL STEEL BODY

The apparatus body compartments shall be fabricated of twelve gauge A-60 Galvanneal steel.

The side compartments shall be an integral assembly with the rear fenders.

Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance.

Compartment floors shall be of the sweep out design with the floor higher than the compartment door lip.

Drip protection shall be provided above the doors by means of bright aluminum extrusion or formed bright aluminum treadplate.

The top of the compartment shall be covered with bright aluminum treadplate formed over the edges on the front, rear and outward side. The corners of the aluminum covers shall be "TIG" welded.

All screws and bolts that protrude into a compartment shall have acorn nuts installed to prevent injury and snagging.

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)
43-00-0330

10034-0002

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STEEL SUB-FRAME

The apparatus body subframe shall be constructed entirely of heavy steel structural channel material.

Two full frame lengths, three-inch (3") 3.4 pound per foot longitudinal steel channels shall form the sides of the body subframe and sides of the water tank cradle. Subframe crossmembers shall be fabricated with three inch (3") 3.4 pound per foot heavy steel channel cross members welded to the longitudinal body subframe sides and the full length frame pads.

Two full frame length 1/2" x 3" flat steel frame pads shall be attached to the body subframe and rest on top of the chassis frame rails for proper frame weight distribution.

The steel frame pads, longitudinal steel channels and subframe crossmembers shall be attached to the chassis frame rails using heavy "U" bolt fasteners to allow removal of the subframe and body assembly from the chassis. There shall be a barrier provided between the subframe and body to prevent electrolysis.

A minimum of two rear platform support channels shall be provided and constructed of 3.4 lb. per foot heavy steel material. Each support channel shall have welded in gusset where the support meets the rear subframe rails.

One (1)
43-00-0430

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 galvanized steel 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)
43-08-0510

ROLL UP DOOR CONSTRUCTION

The roll up door(s) shall be fabricated from aluminum extrusions and be manufactured and assembled in the United States.

The door slats shall be double-wall extrusions with dimensions of 1.366" high x .315" thick. The exterior surface shall be flat and the interior surface concave to deflect loose equipment to prevent the door from jamming. Each slat shall have interlocking end shoes to prevent the slat

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from moving side to side resulting in binding of the door. Each slat shall be separated by a co-extruded PVC and rubber inner seal to prevent metal to metal contact and minimize dirt and moisture from entering the compartment. The inner seal shall not be visible from the exterior to maintain a clean appearance of door. The slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.

The track shall be a one (1) piece aluminum assembly that has an attaching flange and finishing flange incorporated into the design that facilitates installation and provides a finished look to the door without additional trim or caulking. A low profile side seal shall be utilized to maximize usable compartment space.

A drip rail designed to prevent water from dripping into the compartment shall be provided. The drip rail shall have a built in replaceable non-contacting seal to eliminate scratching of the surface of the door.

Bottom rail extrusion must have smooth back to prevent loose equipment from jamming the door and have "V" shaped double seal to prevent water and debris from entering the compartment. A two (2) inch wide finger pull shall be integrated into the bottom rail extrusion for easy one hand opening and closing. The door latch system shall be a full width one (1) piece lift bar that enables the user to operate with one hand.

The roll mechanism shall have a clip system that connects the curtain slats to the operator drum to allow for easy tension adjustment without tools. A four (4) inch diameter counterbalanced operator drum to shall be incorporated to assist in lifting the door.

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)
43-10-1600

LEFT FRONT COMPARTMENT

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

The compartment shall be equipped with the following:

One (1)
55-02-2200

COMPARTMENT LIGHTS

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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)
43-12-1600

RIGHT FRONT COMPARTMENT

There shall be one (1) low compartment located ahead of the rear wheels. The compartment shall be equipped with a low 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)
43-18-0600

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.

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

One (1)
43-18-1000

REAR STEP/TAILBOARD

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.

Four (4)
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 accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber

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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 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.

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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. 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

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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.
 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

10034-0002

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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 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™ or Apple™ 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

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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

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

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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

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, hi-lo siren 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)
57-03-4000

LIGHTBAR

One (1) Code 3 Model #X58A2 lightbar shall be installed. The Excalibur Series lightbar shall be 58" in length and shall include two (2) 50 watt standard rotators, two (2) 50 watt fast rotators, two (2) cascade mirrors, four (4) flat mirrors, and two (2) intersection lights.

The lens colors shall be red and clear. The location shall be in the center of the apparatus cab

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roof.

One (1)
58-04-3000

LOWER FRONT WARNING LIGHTS

One (1) pair of Code 3 model #41 halogen lights shall be installed, one each side one the front of the chassis cab. The dimensions of the lights shall be 3" x 7" and shall have a red lens.

One (1)
58-10-3000

INTERSECTION WARNING LIGHTS

One (1) pair of Code 3 model #41 halogen 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.

One (1)
58-37-3000

LOWER REAR SIDE WARNING LIGHTS

One (1) pair of Code 3 series 41 halogen 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" and shall have a red lens.

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)
58-82-3000

LOWER REAR WARNING LIGHTS

One (1) pair of Code 3 series 41 halogen 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" and shall have a red lens.

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.

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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 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)
80-30-5000

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

The entire underside of the single axle apparatus body is to be cleaned and properly prepared for

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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.