



Ford Cab & Chassis

Unit is to be installed on a Ford F550, XL Regular Cab, 4 x 4

- GVWR : 19,500 lb
- Front Axle : 7,000 lbs
- Rear Axle : 13,500 lbs
- 4.88 Rear limited slip axle
- Scuff plates
- Rear and Front Stabilizer suspension bar
- Extra Heavy Service Suspension Package
- Tow package

The power train should consist of the following:

- Ford Power Stroke Turbo Diesel Motor
- TorqShift Automatic transmission
- Part-time four wheel drive
- Dual 160 Amp alternators

Interior requirements are as follows (XL package):

- Black floor mats in place of carpeting
- Upfitter switches (4)
- 2-Heavy duty bucket seats instead of bench seats
- Rear vinyl bench seat
- Air conditioning with high output fresh air heater



ACCEPT ONLY THE BEST™

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A CENTURY OF ENGINEERING FOR THE BRAVEST

Exterior requirements are as follows (XLT package):

- The chassis shall be painted by the chassis manufacturer according to the chassis manufacturer's factory standards. Cab to be Ford Fire Red (F1).
- Chromed front bumper
- New design front lights
- Chrome surround grille with medium platinum insert
- Dual front tow hooks
- The chassis exhaust system shall be extended to the rear of the right rear wheel.
- The tires should be a maximum traction mud / snow tire
- The wheel base should be 141" wheelbase
- Cab to Axle (CA) should be 60"
- Wheels to be primed grey

Major Standard Features:

- Two (2) front tow hooks
- Axle – Front Monobeam with coil spring suspension
- Dual Batteries – 750 CCA 78-AH
- Brakes – Anti-lock System (ABS)
- Engine hour meter
- Exterior cargo light – Back of cab
- Front and rear stabilizer bars
- Fuel tank – 40 gallon capacity
- Grab handles – Driver and front passenger
- Power steering
- Roof clearance lights
- Solar tinted glass
- Steering damper
- Windshield wipers – interval

Safety & Security:

- Airbag – Driver and front passenger
- Belt-Minder safety belt reminder
- BlockerBeam – includes valance air dam
- Passenger airbag deactivation switch

The Fire Apparatus shall meet all the requirements of the NFPA 1906 standard while stationary on a grade of 10 percent in any direction.

Stainless Steel Side Step Bars

One (1) set of 3" diameter stainless steel side step bars. Steps to be marine grade 304 prime stainless steel polished to a mirror finish with moulded plastic step pad. Step area is compressed, rather than a cut out hole, to enhance strength and prevents interior corrosion. Lifetime Limited Warranty

In addition, to meet NFPA 1901 standard, plastic step pad shall be covered with a Stainless Steel non-slip texture cover. Brand to be RealWheels model #RW420-2.

Outer wheel inserts

The front and rear wheels shall be dressed with polished, stainless steel wheel liners, hub covers and lug nut covers. Brand to be Realwheels.



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Inside Doors Reflective

All driving and crew compartment doors shall have at least 96 in² of reflective material affixed to the inside of each door.

Engine Speed Control Device

An automatic engine speed control device shall be installed to allow an increase in the engine speed when the apparatus is parked. (NFPA 1906, 5.2.1.4 requirement)

An interlock shall prevent the operation of this engine speed control device unless the parking brake is fully engaged and the transmission is in neutral or park, or unless the engine speed control device is used with chassis engine driven components, in which case it shall be interlocked with the engagement of those components.

Winch (9,500#) & Brush Guard

There shall be a 9500 lbs. WARN 9.5ti Thermometric removable electric winch. As per NFPA 1906 (13.2.2), the winch shall have a minimum wire rope length of 125 ft (38m) with a large latched hook. The wire rope will be 5/16" in diameter and shall be constructed of aircraft wire rope and galvanized to help resist corrosion.

Feature of the winch will include a 3 stage planetary gear system for fast line speed, cam action clutch disengages planetary gear system for free spooling and automatic load holding brake for strength and reliability.

There shall be a winch carrier to mount the winch with a Warn 2" front receiver mounted directly on cab & chassis frame without drilling. A rear mounted Class III trailer hitch shall be securely attached to the chassis frame and shall include the 7-pin wiring trailer harness. Front and Rear Warn Quick Connectors and battery power leads to connect the winch shall be run to each of these locations for mounting of the winch. Dust Cover to be installed front and rear.

A remote with 25' (7.6m) of cable shall be supplied (NFPA 1906, 13.3.1.1 requirement).

In addition, this system includes a Warn Trans4mer Black Coated grille/brush guards which wraps to the outside of the headlights.

Flat Bed Body

One (1) custom Fire Application aluminium flat bed body, 110" (9'2") long x 94" wide. The aluminium plate used in construction is .100" 3003-H22 polished aluminium alloy tread plate.

Body sub-frame is made from 6061-T6 aluminium tubes and channels. Sub-frame cross members are installed every 16". The channel is 1-1/2" wide x 3" high x 3/16" thick. The body cross members shall extend the full width to support the compartment framing and shall be welded to the sub-frame main members.

The Body sub-frame main members consist of 6061-T6 Aluminium square tubing of 2" wide x 6" high x 3/16" thick.

The light bar will be fixed to a polypropylene tubular mount that is the same height as the cab of the truck. The uprights will be angled inward to match the aerodynamic contour of the chassis cab.

Aluminium Side designed to embed emergency lighting.

The body shall be attached to the chassis rails with a minimum of four (4) heavy-duty "U" bolts. The body shall be separated from the chassis by 3/8" Teflon. Attachment of the body and sub-frame will allow the body to resist from all distortion and off road operational condition.

The body is a modular design to allow removal from the chassis for major repair or mounting on a new chassis. Isolating material between the body and the chassis to be installed

All welding shall be done electrically using 5356 aluminium welding wire.



Rear vertical skirt will be made from 1/8" 3003-H22 polished aluminium alloy tread plate.
Rear skirt to include Signal, brake, reverse lights, D.O.T., license plate & NFPA steps.

Rear rubber plain mud flaps are provided. A bracket attached to the side of the muffler pipe end is installed to prevent any damaged that can occur to the mud flap. NO CET logo on the flaps.

Two (2) heavy-duty tow eyes shall be installed at the rear of the body (NFPA 1906 requirement). The tow eyes will be fastened directly to each rear chassis frame rail. Hardware shall have a clear and unobstructed access.

The rear of the flat bed shall have four (4) non-skid rear steps for access to pump and controls. The rear steps shall be made so it can be folded up for use in rough terrain. All steps shall sustain a minimum static load of 500 lb (227 kg) without deformation (NFPA 1906 & 1901 compliant). Stepping height from the ground to the first step shall not exceed 24". An additional step is to be provided from MID Tank (with in pump section) with handrail.

Access handrails shall be provided where steps for climbing are located.

An angle of approach and an angle of departure of at least 20 degrees shall be maintained at the front and the rear of the vehicle when it is loaded.

This will be no exception to the body specifications. Pre-built commercial flat bed bodies are not acceptable.

Compartments

All compartments will be made with 1/2" polypropylene sheet.

All compartments seams are sealed with a pliable automotive body caulking.

All compartments shall have a minimum of one (1) 3-1/2" louvered panel bolted into a wall to provide the proper airflow inside the compartment.

All compartments shall be of sweep-out type with no lip at bottom edge for easy cleaning.

The overlap polypropylene compartment doors shall be securely attached to the body with a full stainless steel hinge. Door openings shall be fitted with solid neoprene weather strip completely sealing the perimeter of the compartment door opening. Lift up door shall be installed with gas hold open struts.

Each compartment will have two (2) 27" long clear LED light tube.

All compartments floors will be covered with Plastic Tiles. The tiles shall be black with yellow angled leading edges.

There shall be a set of tracks for future installation of adjustable shelf(s) in each compartment. These tracks shall be installed vertically on the walls of the compartment(s) and shall offer a multitude of height adjustment possibilities.

All door lock mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside into the lock area.

The compartment doors are latched with recessed, polished stainless steel "D" ring handles and locks.

R1 – L1 Transverse compartment of 13-1/2" long x 22" high x 94" transverse. Each side door to be horizontally hinged, drop down style with retaining cables.

Custom made compartment to be designed to hold eight (8) shovels & eight (8) Rakes.



R2 – L2 Two (2) 60" long x 30" high x 22" deep compartments behind the chassis, one (1) each side of the water tank. One (1) 12" tube light is included in each compartment, installed on top wall. The driver's side compartment (L2) shall have 4 storage tubes 6" x 6" x 20" deep.

R2 – L2 Two (2) Adjustable shelves to be installed, one (1) located in the driver side compartment and one (1) located in the passenger side compartment.

Under each shelf, two (2) sets of clips shall be installed to hold two (2) brush brooms under each tray.

R3 One (1) 30" long x 14" high x 20" deep compartments under body behind the chassis on the Drivers side. Compartment to be no lower that the center line of the rear wheel. One (1) 12" tube light is included in the compartment.

Rear One (1) integrated to the platform compartment approximately 5" high x 24" wide x 103" long for suction hose storage and folding ladders or pike poles. A flip down horizontally hinges door is furnished at the rear. The interior compartments are made from polished 3003-H14 alloy smooth plate. Steel frame underneath Drop-In-Unit shall not be acceptable

Dunage compartment

One (1) polypropylene dunage compartment installed on top of water tank with approximate dimension of 41" long x 48" wide x 8" high. The compartment shall have holes to allow water to drain.

Other item included

Medium Kochek Wheel Chocks with storage bracket, on drivers side of truck.

Electrical components

A 12-volt electrical system is supply. The built in emergency light switch panel have a master switch plus individual switches for selective control. The switch panel is located in the cab on the driver's side to allow for easy access. The switches on the dashboard are lighted rocker type.

The wiring is secured in place, readily accessible and protected against heat, water and physical damage.

The complete electrical system is separated from the chassis wiring system except for a power supply connection at chassis battery. It is also protected by bolt-on type automatic circuit breakers.

All wiring will be run in heat and moisture resistant plastic convoluted split loom.

Grommets will be used where conductors or loom pass through metal.

Switches, relays, terminals, and connectors shall have a direct current (dc) rating of 125 percent of maximum current for which the circuit is protected.

Conductor insulation will conform to S.A.E. requirements. All circuit are protected by automatic reset circuit breakers.

All wiring furnished will conform to the national Electric Code.

All circuits will be wired in conformance with S.A.E. J1292, Automobile-wiring standard.

All wiring will be function worded schematically.

A set (2) of electric diagram will be remit upon delivery.

Clearance, marker, license plate lights and reflectors will be furnished per D.O.T.



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LED Signal, brake and reverse lights will be High Quality Grote Automotive lights recessed mount into rear aluminium skirt area of body per FMVSS 108 and CMVSS 108 requirements. Light to be LED Oval with chromed housing.

One (1) back-up alarm that meets the type D (87 dba) requirements of SAEJ994 shall be provided at the rear of the apparatus. It will activate when the transmission is placed in reverse.

Compartment Lights switches

One (1) switch per compartment shall be installed so the compartment light(s) shall come on only when compartment door is open.

Door Ajar

One (1) door ajar warning light and a buzzer shall be provided and installed in the console to indicate an open body compartment door. The light shall be properly marked with a sign "Warning Door Ajar".

Scene lights

Two (2) 300W telescoping 12v scene lights mounted at the front of the Truck Bed. The light shall be single head design. One light mounted on each side will increase visibility around the apparatus during night or light operations. Model is to be Fire Research FCA512-D30. Option to be installed on each light: 1- On/Off lamp head switch FCA option-ON, 2- Wire Guard FCA option-G.

Two (2) Rear Unity scene light provided and mounted on the top of the rear water tank. One (1) to be Floodlight, one (1) to be Spotlight. Switches to be located on the panel control.

Portable Hand Lights

Two (2) Kohler "Litehawk" handlights shall be mounted in a compartment and wired to the Kussmaul charging system. This will include the base and the light.

Battery charger

One (1) Auto Charger Kit. Location of the installation is to be determined by the fire dept. The Auto Charge kits include the Indicator, Automatic battery charger and Auto Eject with waterproof cover. Model to be 091-39-12-S-Kit. The Auto Eject shall be located rear of the driver's door.

In addition of this system, installation of one (1) duplex 110v straight three prong electric outlets wired to a Kussmaul 15 amp. Location to be determined by the Fire Department.

The Ford's block heater shall be wired to the Auto Eject and controlled by a switch on the console.

Console

One aluminium or Polypropylene fire application custom consol installed between seats with rocker switch. To be quickly identified and visible to the driver and passenger while seated, the rocker switches shall be installed on the top face of the console designed with a 40 deg. angle. This area shall be able to hold at least two rows of rocker switch. All switches shall be rocker style internally lighted and appropriately identified by panel-mounted legends.

The first lighted rocker switch to be a red Master Optical Warning switch. A master body disconnect automatic switch, normally open contacts, and shall be provided to disconnect all electrical loads not provided by the chassis manufacturer. The starter solenoids shall be connected directly to the batteries.

All rocker switches to have a green "On" indicator that is visible from the driver's position shall be provided.

The consol will have an area to accommodate department map books, clipboards etc. Area to be at least 13" long x 12" wide x 9" high.

The console also has an area for radio head & Siren installation.



A voltmeter shall be mounted on the console to allow direct observation of the system voltage.
Hand-Held Rechargeable Spotlight 900 Lumens, Halogen Bulb.

All electrical components like breaker, relays, wiring etc. will be installed inside this customized consol and protected with an aluminium box. This consol will be design to easily gain access to those breaker, relays, wiring, etc.

Controls and switches that are expected to be operated by the driver while the apparatus is in motion shall be within convenient reach for the driver.

Aluminium console to be painted black with Herculiner scratch free finish.

Emergency lighting

One (1) 54" LED Whelen Light bar, Liberty model # SLN2VLED. Light bar to be mounted on the front top body.

- 4 x Red SUPER LED Corners
- 2 x Red SUPER LED Inner
- 2 x White SUPER LED Inner
- 2 x Front Facing Takedown lamps
- 2 x Side Alley lamps, one (1) each side
- 1 x blue SUPER LED at the rear, driver side.
- 1 x amber SUPER LED at the rear, passenger side.

Mounted on front Ford grill, Two (2) Whelen M4 series SUPER LED, red with clear lens, each with a chrome flange.

Mounted each side of the chassis, Two (2) Whelen M4 series SUPER LED, one (1) each side, red with clear lens, each with a chrome flange.

Mounted each side of the body, Two (2) Whelen M4 series SUPER LED, one (1) each side, red with clear lens, each with a chrome flange.

Mounted in the rear lower section of the body Two (2) Whelen M4 series SUPER LED, two (2) red with clear lens, each with a chrome flange.

Mounted in the rear upper section of the body (See CAD Drawing) two (2) M4 SUPER LED, one (1) blue and (1) red on the driver side and one (1) amber and (1) red on the passenger.

One (1) wigwag system will be installed with a control switch on the console.

Siren & Speaker

One (1) Whelen, model #295SLSA1, 100 watts electronic siren amplifier with PA and switch control center to be provided and installed.

One (1) Whelen, model #SA315P, 100 watt speaker, to be provided and mounted on the front bumper with SAK1 universal mounting bracket.

Tank

The Water Tank shall be constructed of 1/2" thick polypropylene sheet stock with AccTuf™ resin. The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in color with a textured finish, and UV stabilized for maximum protection. The skid type booster tank shall be of a standard configuration and shall be so designed to have complete modular slide in capability. All joints and seams are to be fully nitrogen welded and electronically tested for maximum strength. The unit shall incorporate transverse partitions manufactured for 3/8" PT2E polypropylene that shall interlock with a series of longitudinal partitions constructed of 1/2" PT2E polypropylene. All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank. The passenger side rear wall of the tank shall have a standard built in sight gauge 2" in width, and 70% transparent.



Fill tower and tank cover

The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall have a molded drop-on type cover. The cover shall be fastened to the tower with a tether to prevent loss. The tower shall be located in the right rear corner of the tank. There shall be a vent / overflow installed inside and to the extreme rear of the tower approximately 2" down from the top. This vent / overflow shall be of a standard schedule 40 polypropylene pipe with minimum ID of 3". The vent / overflow shall be piped internally toward the bottom and exit out the skid base of the tank.

The tank cover shall be constructed of 1/2" thick PT2E polypropylene, black in color; UV stabilized, and incorporates an exclusive self-locking design. The cover shall incorporate (4) 2" polypropylene for hold-down and lifting provisions. These dowels shall be tapered for 1/2" -13 threads to accommodate a lifting eye with a minimum-security factor of 3 to 1. These dowels shall be welded into the transverse baffles, and will assist in minimizing cover flex during normal operation

Tank will be baffled in accordance with NFPA bulletin 1906 requirements.

Tank Capacity

The tank shall have a capacity of 300 U.S. gallons of water. The tank shall be covered by the ALL OUT No Fault Life Time Warranty.

In addition, a 10 gallons drop-in integrated foam cell will be included. A label that reads "FOAM" shall be placed at any foam concentrate tank fill opening.

Sump

The floor of the tank shall be manufactured from 3/4" PT2E polypropylene. There shall be one (1) sump as standard per tank. The sump shall be integral to the tank floor and be a minimum of 5/8" deep recessed into the floor. The sump shall not be visible from or protrude through the bottom of the tank.

Tank Outlets

There shall be two standard tank outlets located in the same vertical plane on the driver side rear wall of the tank. One (1) 2-1/2" female NPT tank to pump suction fitting and one (1) 1-1/2" female NPT tank fill fitting with flow deflector.

Skid Base

There shall be a full width skid base manufactured of 3/4" PT2E polypropylene welded to the tank. This base shall be 48" wide by 96" long and shall extend 34" past the tank in the rear to allow for pump mounting. The pump mounting area shall be supported by 1/2" PT2E polypropylene gussets 15" high by 32" long. The gussets shall be equipped with 2" holes to assist in lifting the unit. The mounts shall allow for the truck to be secured directly to a truck bed without the need for any skid framework underneath.

Mounting

The Drop-In-Unit shall be mounted in a manner that allows access to the engine, pump, and auxiliary systems for routine maintenance. The Drop-In-Unit shall not be welded or otherwise permanently secured to other components.

Diesel Pump, PFP-21hpKBT-MR

The pump shall be a PFP-21hpKBT-MR single stage centrifugal pump, bolted directly to the engine, with a 2.5" NPT suction inlet, and a 1.5" NPT discharge outlet. The volute and pump head shall be a lightweight, high strength, seawater resistant, aluminium alloy. The impeller shall be a bronze enclosed type for maximum efficiency, fully machined and balance. The shaft seal shall be self-adjusting, self-lubricating, mechanical type. The pump shall be equipped with a brass drain cock.

The pump shall be equipped with a regular exhaust primer capable of 15' lift.

The pump shall be capable of a maximum discharge volume of 240 gpm. At 50 psi, and a maximum discharge pressure of 175 psi while pumping 25 gpm. In the center of the performance curve, the pump shall be capable of pumping 160 gpm. At 100 psi and 100 gpm. at 150 psi.



Engine

The pump shall be driven by a 3 cylinder, DIESEL engine powered, 21 horsepower. The engine shall be water-cooled, 12 volt electric start.

The engine shall be fuelled from the engine Diesel tank. The engine shall be connected to the main battery of the truck.

Deluxe Pump Control panel

A Deluxe Control Panel shall be supplied and installed on the pump. The Control Panel shall be manufactured from aluminium and completely covered with a black plastic plate. The Control Panel shall consist of a master switch, start button, engine stop, oil pressure, glow plug and engine temperature warning lights, 2.5" diameter pump discharge pressure and 2.5" dia. Pump intake liquid filled gauges, primer control, throttle lever, Foam system control and illumination for controls with the installation of one new design tube light. All pump controls and gauges shall be properly marked with white letters engrave in the black plastic plate.

Centerline of any control shall be no more than 72 in. vertically above the ground or platform that is designed to serve as the operator's standing position.

The performances are base on a maximum altitude of 500ft and any higher elevation will lower the pump performance. The standard engine performance drop is 3% for every 1000 ft.

Water tank indicator

Fire Research TankVision model WLA200-A00 tank indicator kit shall be installed. 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

Location of water tank indicator shall be: Pump Panel Area.

Foam Proportioner

The foam proportioning system is a Aquis 1.5 Direct Injection, 12-volt, direct-injection system capable of maintaining a solution ratio of as low as 0.1% to at least 1% of class "A" foam. The proportioning system has a maximum operating flow range of 3-145 GPM (11-549 liters per minute) and a maximum accuracy flow range of 5-110 GPM (19-416 liters per minute). The proportioner is capable of using different types of class "A" liquid foam concentrates. This complete system is mounted within the module.

Plumbing and Valves

Intake and discharge piping shall not interfere with the routine maintenance of the pump, engine, or auxiliary systems and shall not unduly restrict the servicing of these components.



Suction Piping

All piping shall be schedule 40 steel piping, painted red. The suction piping shall consist of a 2.5" tank to pump line with a 2.5" flexible rubber hump hose to minimize flex and vibration between the pump and the tank. RIGID PIPING SHALL NOT BE ACCEPTABLE. Between the tank and the pump there shall be a 2.0" Fire Type, quarter turn self-locking swing out valve with a handle. This valve shall remain open to pump from the tank. This pipe shall have a tee into the suction side of the pump, and shall continue to the rear of the truck for overboard suction.

For ease of operation, a push/pull control rod shall be installed with a cast brass "Tee" handle for the inlet located between the tank and the pump.

The overboard-suction connection shall have a 2.0" Fire Type, quarter turn self-locking swing out valve with a handle and 2.5" NST male adapter w/cap with retaining cable. To draft, the tank to pump valve shall be closed, a suction hose connected to the overboard-suction connection and placed in a static water supply, and the primer activated.

Discharge Piping

All piping shall be schedule 40 steel piping or high-pressure flexible hose. A 2.5" X 2.5" square steel manifold shall be piped directly to the discharge outlet of the pump. Attached to this discharge manifold, by means of welded steel pipe nipples, shall be all the discharge valves. All piping shall be painted red to match the pump.

Tank Fill

There shall be a 1" valve piped from the discharge manifold as a means for refilling the tank. The valve shall be an industrial, quarter turn valve handle and 1" NPT threads, and shall be connected to the tank fill port by 1" high-pressure flexible hose.

Discharge to Booster Reels

There shall be a 1" valve piped from the discharge manifold to each booster reel. Each valve shall be an industrial, quarter turn valve handle and 1" NPT threads, and shall be connected to the reel by 1" high-pressure flexible hose.

1.5" Discharges to Rear

There shall be two (2) 1.5" valves piped from the discharge manifold to the rear of the truck for connection of forestry hose. The valve shall be a Fire Type, quarter turn self-locking swing out valve with a handle and 1.5" NST threads. The valve shall be furnished with a 1.5" NST cap and chain.

2.5" Discharge to Rear

There shall be one (1) 2.0" valve piped from the discharge manifold to the rear of the truck bed. The valve shall be a Fire Type, quarter turn self-locking swing out valve with a handle and 2.5" NST threads. The valve shall be furnished with a 2.5" cap and chain.

1" Tank Drain and Indian Can Fill

There shall be a 1" valve piped from the tank drain fitting to the rear of the truck bed. The valve shall be an industrial, quarter turn valve with a handle and 1" NPT female threads.

The Drop-In-Unit electricity and diesel will be connected directly to the main battery and tank of the chassis.

Approximate weight of the Drop-In-Unit including hose reel(s) and full of water and other liquids is 3,500#.



Right (passenger) side Integrated Pre-connect hose tray

Integrated to the right (Passenger's) side of the flat bed body, one enclosed hose tray made from aluminum.

Hose Tray to have a flip down door with latches. Tray design shall allow hoses to pay out in any direction and quick hose storage when finished.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area.

There shall be a 1.5" valve, valve to be located in the tray NOT the pump panel area, piped from the water tank to the hose tray. The valve shall be a Fire Type, quarter turn self-locking swing out valve with a handle and be connected between the hose tray and tank via high pressure flexible plumbing.

Integrated on the right side of the flat bed body, one (1) enclosed pre-connected hose tray made from aluminium to hold a minimum of 150' of 1-3/4" hose.

Left (driver) side Integrated Slide-Out Tray

Integrated on the left side of the flat bed body, one (1) enclosed slide-out tray. The tray shall have 38" wide x 26" deep and made from aluminium.

The integrated have a flip down door with latches.

The area shall be designed to prevent the accumulation of water and allow for ventilation
To aid in drying items in the storage area. Black Turtle Tiles to be installed and bolted in the tray.

Top Pre-connect Cross lay

One (1) fully enclosed Pre-connect Cross lay tray made from polypropylene sheet shall be supplied and installed on top of the front transverse compartment.

Dimension of the Storage Tray to be full length of the front transverse x 9" wide x 8" high.

Pre-Connect cross lay shall have a top hinge polypropylene cover for easy loading and protective black nylon net with snaps on each side.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area.
Black Turtle Tiles to be installed and bolted on the floor.

Cross lay shall have a 1-1/2" Pre-Connect swivel elbow.

1.5" Discharge to Pre-connected Cross lay

One (1) 1.5" valve piped from the discharge manifold to the hose tray. The valve shall be an Industrial, quarter turn self-locking swing out valve with a handle and be connected to each hose tray by high-pressure flexible plumbing.



Storage trays

Two (2) storage Trays made from polypropylene shall be supplied and installed, one (1) on top of the right side bed compartment and one (1) on top of the left side bed compartment.

Dimension of the Storage Tray to be full length and width of the top compartment.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed and bolted on the floor.

Red canvas with snaps shall be installed on top of the Storage Tray along with rear or side protective net (s).

Booster Reels (2)

Two (2) 12v Electric Rewind Booster Reels, one (1) located at the rear left side of the bed, one (1) located at the rear right side of the bed.

Two (2) 12v electric rewind booster reels capable of handling 250' of 1" diameter booster hose each. Each reel shall have a push button rewind control and a backup geared crank rewind handle. Each reel shall be equipped with a 1" NPT 90 degree swivel inlet, and a 1" NST outlet riser. Each reel shall be manufactured of steel and shall be primed and painted red.

250' of 1" Neidner forestry booster hose shall be supplied and installed for each reel.

Booster Reel Rollers

One high mounted roller and spool assemblies shall be furnished and installed facing rear of the truck for each reel.

Testing

The pump shall be tested after the pump and all its associated piping and equipment have been installed on the fire apparatus. The tests shall be conducted at the manufacturer's approved facility.

The testing shall include at least the pumping tests, the priming device test, and the vacuum test. The water tank-to-pump flow test, and the piping integrity test.

Manufacturer's discretion

Materials, parts, or procedures used are subject to change at manufacturer's discretion at any time to provide equal or better products.

Complete apparatus built accordingly to NFPA 1906 & DOT Compliant.



