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"It's a Weis Choice"



**WEIS QUICK ATTACK 400 RM
SEGUIN FIRE DEPARTMENT, TX**

CHASSIS

2023 Ford F-550
Super Cab
192" Wheelbase
84" Cab-to-axle
4 x 4
Race Red
40/20/40 front seats
Grey Vinyl
Preferred Equipment Package
XL trim
Air Conditioner
AM/FM stereo with Clock
7.3L V-8 gas engine
10 speed Automatic Trans
225 Max – BSW tires
4.88 Limited Slip
Power Equipment Group
Telescoping Mirrors
19,500# GVW
Electronic Shift on Fly
Cruise Control
40 gallon Aft Fuel Tank
Payload Upgrade Package
Heavy Duty Front Suspension
Dual Batteries
240 amp Alternator

CAB STEP BARS

There shall be custom step bars to provide ease of access to the cab. Step bars will be attached to the frame rails only. Steps that are attached to bottom of cab are NOT ACCEPTABLE.

The cab steps bars shall be constructed of 3" x 3/16" thick square tubing and the frame bracing shall be 3/16" formed channel. The front door cab steps shall have a step surface of a minimum of 6" W x 18" L. Rear cab steps shall have a stepping surface of a minimum of 6" W x 18" L. The stepping surfaces shall be covered with NFPA compliant .125 embossed diamond plate. The steel steps shall be powder coated textured black.

There will be a stepping surface for front and rear occupants.

SUPER SINGLE TIRE AND WHEEL CONVERSION

The Ford factory wheels and tires shall be removed and replaced with a Super Single Rear Tire conversion package.

The package shall consist of the following:

- Five (5) Continental 335/80 R20 MPT 81 41" tires
- Five (5) custom aluminum wheels
- All wheels to have a Black anodized finish
- All Tires / Wheels to be match mounted and dynamically balanced.
- 3.5" front lift kit, and a 5.0" rear lift Kit shall be installed to fit the larger tires.
- Rad Flo front and rear shocks with external reservoir
- Narrow sway bar to eliminate tire rub
- Adjustable Track bar
- Front axle bump stops
- Rough County Heavy Duty Dual Steering Stabilizers shall be provided to prevent steering shake
- The rear lift kit shall be constructed of a solid steel block.
- New rear U-Bolts will be provided. OEM U-bolts shall not be used in the construction of this apparatus.

Front end re-aligned after installation of lift system.

Speedo re-calibration.

The original plastic front fender flares shall be removed and replaced with custom bolt on 7" W fender flares. These fender flares shall be coated with spray on bed liner material.

SPARE TIRE AND WHEEL

One spare tire and wheel shall be mounted on top of the tank OR PROVIDED LOOSE.

SKID PLATES

Custom heavy duty steel Skid plates shall be provided for the transfer case, radiator and transmission. The skid plates shall have a black powder coat finish.

IN CAB REAR SEAT BENCH CONVERSION

There shall be a rear in cab bench seat conversion. The 60/40 split bench seat shall have the 60 portion removed and replaced with a horizontal bench with a vertical mounting board on the back wall of the cab to provide additional storage for SCBA Tanks, gear bags or equipment. The back board shall be constructed of diamond plate and horizontal rear bench shall be constructed of smooth aluminum, black powder coated. It shall be removable for ease of access to equipment installed below.

TANK

The tank shall have a capacity of 400 gallons. TANK SHALL BE MANUFACTURED BY UPF and will be DEF 2CE.

The tank shall include the following features:

Fill tower with removable screen located rear of tank passenger side

Sump with anti-swirl plate and drain fitting

3.0" vent and overflow pipe

1.5" refill fitting

3.0" tank suction

Liquid level sight gauge at rear of tank

Mounting struts on top of tank

10 gallon foam tank – rear of tank driver side

The outside of the tank shall be black.

Mounting strips shall be molded to the bottom of the tank to allow mounting to the aluminum fire body.

The tank shall have a lifetime warranty. A copy of the warranty shall be provided with the apparatus.

There shall be an FRC Tank Vision water level sight gauge located on the rear pump panel and one (1) mini FRC water level sight gauge inside the cab on the custom aluminum console.

There shall be an FRC foam level sight gauge located on the rear pump panel and one (1) mini FRC foam level sight gauge inside the cab on the custom aluminum console.

REAR MOUNT PUMP CONTROLS

All pump controls shall be provided at the rear of the apparatus. The rear mount pump panel will have all pumping functions and panel provided with the pump.

The tank to pump line shall be operated at the rear of the apparatus.

The pump panel shall be constructed of .125" smooth aluminum and shall be powder coated textured black.

The pump panel shall be provided with an LED panel light.

Each discharge shall be properly function labeled.

REMOTE START/STOP THROTTLE CONTROLS

There shall be an electronic start/stop/throttle control for the gasoline fire pump located inside the cab on the custom aluminum console and at the rear mount control panel.

There shall be a Class 1 2.5" liquid filled discharge gauge with red LED backlight located inside the cab on the custom aluminum console.

PUMP

The pump shall be a Hale model HPX200-H20 powered by a 20HP Honda (OR BRIGGS) engine with the following features:

- 4" victaulic suction inlet
- 2.5" NPT outlet with four (4) bolt flange
- Electric start
- Pump panel
- 2.5" master discharge gauge
- Electric throttle control
- Electric primer controls
- Low oil pressure light

The pump shall be located at the rear of the apparatus, mounted on the aluminum fire body.

The pump motor shall be plumbed to the chassis fuel system. An auxiliary fuel pump with a check valve shall be provided.

PLUMBING

All plumbing shall be heavy duty **welded stainless steel plumbing, NO EXCEPTIONS.** When necessary, high pressure hose shall be used with stainless steel fittings.

The stainless steel plumbing shall have a 10 year warranty.

A 4.0" square manifold shall be utilized. All discharges shall be plumbed from this manifold.

The manifold shall have one (1) 2.5" Victaulic fitting for the 2.5" plumbing from the pump.

The manifold shall have one (1) 1.5" 4-bolt flange for the front pre-connect hose tray.

The manifold shall have one (1) 1.5" 4-bolt flange, for a 1.5" rear discharge.

The manifold shall have two (2) 1.0" 4-bolt flanges for the 1.0" booster reels.

The manifold shall have one (1) 1.0" 4-bolt flange, for the 1.0" passenger side headache rack whipline.

The manifold shall have two (0) 1" fittings for the front ground sweeps.

The entire discharge plumbing system shall be hydrostatically tested to 300 psi for two minutes prior to installation. This is to ensure that the entire plumbing system will not leak and to ensure the safety of all fire department personnel.

The discharge plumbing from the pump to the manifold will be plumbed with 2.5" pipe.

There will be one (1) 1.5" discharge provided at the rear of the manifold, with NST threads and a 1.5 to 1.0 reducer with cap.

All discharge valves shall be Akron fire service full flow heavy duty, fire service quality quarter turn ball valves. Industrial or Water/Oil/Gas valve are NOT ACCEPTABLE.

The tank to pump line shall be plumbed with 2.5" plumbing. A wire reinforced flexible connection shall be used to provide ease of service and to reduce vibration.

The tank to pump valve shall be a 2.5" heavy duty, full flow, fire service quality quarter turn ball valve.

There shall be a 2.5" gated suction that utilizes a C & S hydrant gate valve with a 2.5" plug and chain.

NOTE: Only Akron full flow quarter turn ball valve shall be used for suction and discharge lines. All valves shall have the Akron TSC handle.

The 1.0" tank fill and recirculating line shall utilize a 1.0" stainless steel gate valve.

There shall be one (1) 6' x 1.0" forestry hose whip line provided at the right front side of headache rack and the whip line shall be provided C & S BD550, 5 - 50 GPM 1" Select Gallonage Nozzle with pistol grip.

Each nozzle shall have a PAC TOOL nozzle clip.

BOOSTER REEL

Two (2) Hannay heavy duty electric rewind booster reels will be provided with 100' of 1.0" red rubber booster hose, 800 PSI, with aluminum couplings. Reels shall be painted Black.

One (1) booster reel shall be located on passenger side rear corner and one (1) booster reel shall be located on driver side rear corner.

One (1) TFT one (1) C & S BD550, 5 - 50 GPM 1" Select Gallonage Nozzles with pistol grip.

The booster reel shall be plumbed with high pressure hose with stainless steel fittings.

The booster reel will be provided with one (1) rewind switch located at the booster reel.

The booster reel shall be provided with a single chrome hose roller and spool assembly.

A 40 amp circuit breaker will be provided for the booster reel.

GROUND SWEEP NOZZLES (2)

There shall be two (2) ground sweep nozzles provided at the front of the apparatus, located one (1) at the driver front corner of the bumper and one (1) at the passenger front corner of the bumper.

Each nozzle shall be supplied by one (1) KZCO stainless steel electric valve.

There shall be two (2) ground sweep nozzles switches located on the center console located in the cab.

Each ground sweep nozzle shall have a protective guard constructed of steel with a black powder coat finish.

FOAM SYSTEM

A Trident 'Foamate' Model #31.008.0 ATP-1.0 Class A around-the-pump foam system shall be installed. It shall be controlled from the rear mount panel.

The ATP system shall have the following performance ranges at 100 PSI (6.9Bar):

- a) 400 GPM (1500 LPM) at 0.25% foam percentage
- b) 200 GPM (750 LPM) at 0.50% foam percentage
- c) 100 GPM (375 LPM) at 1.0% foam percentage

WEIS FIRE QUICK ATTACK BODY

The fire body shall be constructed of entirely of heavy duty **extruded aluminum and will have a TEN (10) year structural warranty.**

The perimeter of the body shall be constructed of a heavy duty 6061T5 custom aluminum extrusion. The deck plate shall be stitch welded on the bottom side of the extrusion.

The cross members shall be 2.0" x 4.0" 6061T6 extruded aluminum tube on 12" centers for rigidity and longevity. There shall be no less than ten (10) aluminum 2.0" x 4.0" extruded aluminum cross members.

The sills shall be 6.0" steel channel.

The body sills shall be mounted to the frame utilizing a 6-point mounting system.

There shall be .125" aluminum diamond plate covering the entire upper surface of the body.

The fire body shall be 132" long x 96" wide.

There shall be a headache rack at the front of the body that will also serve as a light bar mounting platform.

The headache rack shall be constructed with 2.0" x 2.0" extruded aluminum tubing and will have .125" aluminum diamond plate covering the bottom half on the front and back sides.

The light bar platform shall be constructed of 1/4" aluminum plate shall be properly gusseted. The light bar platform shall be 14" x 75".

There shall be an area approximately the size of the rear cab window that will be covered with expanded aluminum.

A 120" deep x 30" wide x 5.5" high tool compartment at rear of the apparatus with a horizontally hinged, drop down door shall be provided.

This compartment shall be provided with a 120" .125 heavy duty aluminum rear storage pull out tray for department supplied suction hose, shovels, brooms, rakes, etc. The tray finish will be natural aluminum.

The rear of the truck shall have a flat back design. This design allows for greater departure angle. The rear of the apparatus shall have two (2) pull-out, drop-down rear steps and will be natural aluminum finish.

All stop, turn, back up, corner, and DOT lights shall be provided.

The DOT lights shall be LED.

A flush mounted fuel fill hole will be provided for one fuel tank.

The fuel fill shall be located on the body next to the pump in a vertical manner to facilitate easy filling of the fuel tank.

It shall NOT be located on the side of the body.

A "GASOLINE" label shall be provided next to the fuel filler cap.

Mud flaps shall be installed behind the rear wheels. The mud flaps shall say "KEEP BACK 500 FEET".

UPPER BODY SIDE COMPARTMENTS

There shall be one (1) transverse storage compartment with lift up doors. Located on top of the flatbed, behind the cab, and in front of the upper body side compartments, and shall be designated at L1 and R1. The transverse compartment shall be 30" W x 30" H x 96" D with two (2) slide out trays, to be pulled out each side.

The overall dimensions for the driver and the passenger side compartments shall be 72" W x 30" H x 24" D. A bulkhead divider shall be provided between the L-1 and L-2 and the R-1 and R-2.

Each side compartment shall have one (2) sweep-out style compartments doors with a center support, with horizontally hinged lift up doors.

The L-2 and R-2 compartments shall have a full width adjustable shelf.

The compartment door handles shall be D style slam latches.

The body of the compartments shall be constructed of .125" aluminum diamond plate.

The doors shall be constructed of .125" smooth plate aluminum and shall be PAINTED to match the chassis.

Each compartment and adjustable shelf shall have Dri-Dek tiles.

Each upper body compartment shall be provided with LED compartment lights that shall automatically come on when the compartment door is opened.

The upper body compartment doors shall be wired to an open door warning light and alarm that shall be located in the cab.

The open door warning light shall be activated anytime a compartment door is open.

The open door warning light AND alarm shall be activated anytime a compartment door is opened and the chassis' transmission is shifted out of park.

There shall be 10" H x 72" L x 20" W dunnage compartments, one (1) each side and will be bolted to the topside compartments. These dunnage boxes shall be powder coated textured black and will be made of smooth aluminum with slotted grooves.

There shall be a under body toolbox located at the front of the fire body, one (1) on each side. Dimensions shall 30' W x 16" H x 20" D.

FRONT BUMPER

There shall be a custom designed heavy-duty full replacement front bumper provided on the apparatus.

The bumper shall have a 1.5" pre-connect hose tray with 1.5" Akron valve.

The bumper shall have an integral receiver hitch.

The bumper shall have a black textured Powder Coat finish.

The bumper shall have a red / lime yellow chevron.

REAR BUMPER

There shall be a custom designed heavy-duty rear bumper provided on the apparatus.

The bumper shall be 96" W x 6" D and be tapered 45 degrees on each side.

There shall be a receiver hitch welded on the rear bumper.

There shall be two (2) tow shackles welded on the rear bumper.

The rear bumper shall be powder coated raven textured black.

WINCH

A Rough Country PRO 9500 portable winch shall be provided. Electric power for the winch shall be located at the front and rear bumper for the winch.

HyperSight HS-160R Kit

See through smoke, fog even in total darkness! HyperSight is a Driver Vision Enhancement Thermal Imaging Camera (TIC) that will is vehicle mounted to easily identify hotspots and address areas more prone to rekindle. The HyperSight wireless system shall utilize a 7.0" Monitor screen. A back up camera shall be included, and it

will utilize the same 7" monitor. The HyperSight thermal imaging camera shall be mounted to the top center of the front bumper.

APPARATUS CHARGING SYSTEM

There shall be a Kussmaul Auto Charge 1000 with Super Auto Eject plug and digital status indicator provided on the apparatus. Auto Eject plug shall be located at the driver's side rear.

ELECTRICAL

The entire wiring system shall be entirely composed of high grade commercial quality wiring harnesses that shall be color coded and function coded throughout.

An electrical sub panel shall be located behind the passenger seat.

The apparatus' wiring harnesses shall be connected to the electrical sub panel utilizing Deutsch connectors.

There shall be a master disconnect switch provided, located inside the cab on the floorboard next to the driver side door.

A wiring diagram shall be provided with the apparatus.

At the rear of the truck there shall be a 7-PIN electrical connection for a trailer.

The electrical system shall have a five (5) year warranty.

CAB CONSOLE

A powder coated raven texture black custom aluminum console shall be provided to house the siren/switch controls, scene lights, work lights, customer supplied radios, ground sweep controls, in cab pump controls, pump pressure gauge, mini tank water and foam level indicator gauges.

The console shall also have two built in cupholders, and a map box.

Weis install two (2) customer supplied radios and antennae.

EMERGENCY LIGHTING SYSTEM

An emergency lighting system consisting of the following shall be provided.

A Whelen Freedom NFPA LED 56" LED light bar (red) shall be mounted on the headache rack located at the front of the fire body. The light bar shall include flashing take downs and alley lights.

THE LIGHT BAR SHALL HAVE COMPLETE PROTECTION BY AN ALUMINUM TUBE FRAME LIGHT BAR PROTECTION SYSTEM AND IT WILL BE POWDER COATED TEXTURED BLACK.

Ten (10) Whelen ION Mini T-Series lights 1.5" x 3.34 LED (red) flashing lights shall be provided with chrome bezels. The LED lights shall be located as follows:

Two (2) at the front of the apparatus on side of front bumper push bars - Zone A

Two (2) at the front of the apparatus on front bumper grille - Zone B

Two (2) on the sides of the front fenders - Zone B, Zone D

Two (2) on the sides of the fire body - Zone B, Zone D

Two (2) at the rear of the apparatus - Zone C

There shall be two (2) Whelen L31HR LED beacon lights (red) at the rear of the apparatus on mounting brackets located on the rear of the tank - Zone C

The emergency lights shall be independently switched with a master switch ability.

A Whelen 295SLSA6 full function 100 watt siren shall be provided.

A Whelen SA315P 100 watt speaker shall be mounted at the front bumper.

A Whelen WBUA107 back up alarm shall be provided.

All emergency lights shall be controlled from the siren / switch module located inside the aluminum console.

WORK LIGHTS

There will be four (4) LED work lights provided, mounted one (1) on each side of the headache rack facing the rear of the truck, and two (2) at the rear of the truck for nighttime operation and will be switched at the switch module in the cab.

There shall be two (2) LED underbody ground lights at the rear of the apparatus, and one (1) LED underbody light located under each cab door for a total of six (6) underbody LED lights. These lights are switch activated. When the switch is ON, the underbody lights shall be automatically activated when the chassis' transmission is shifted into park and shall automatically de-activate when the chassis' transmission is shifted out of park.

AUXILIARY LIGHTING

There shall be one (1) 9" Hi-Viz LED mini brow light at the rear of the tank between the beacons. The light at the rear shall be wired to the reverse and have an on/off switch at the rear pump panel.

There shall be one (1) 20" Hi-Viz LED mini brow combo light located under the top rail of the front replacement bumper.

There shall be two (2) 31" Hi-Viz LED mini brow combo lights, Scene/Flood/Spotlights, one (1) each side above the side compartments. These lights shall be protected by aluminum diamond plate covers.

There shall be Running Board Tracer lights that shall flash red with a steady burn white flood mode. These shall be located directly below the cab and above the side cab access steps.

The front bumper and upper body scene lights shall be independently controlled from switches located on the custom aluminum console inside the cab.

STRIPING

The apparatus shall be provided with a 4.0" Black Scotchlite reflective stripe on the chassis as per NFPA requirements.

There shall also be a 4.0" Black Scotchlite reflective stripe installed on the body side compartment.

There shall be a 3" black stripe in the extrusion.

There shall be red/yellow reflective Chevron provided on the rear of the fire body.

Seguin Fire Department reflective logo shall be placed on the front driver and passenger doors.

SEGUIN FIRE DEPT. lettering shall be located on each side of the fire body extrusion.