



# MIDWEST FIRE®

## Brush Truck Specifications

Prepared for:

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| Stock |
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| Date: 10.01.18 |
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|------------------------------------|
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QMS-WIN-004 Rev C

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## SECTION 1: WATER TANK

The Tank Shall Carry a Lifetime Warranty from Its Manufacturer

### 1.00 Tank

The tank shall be a (Approximate tank dimensions: 60" L x 46"W constructed of 1/2" thick high-impact, polypropylene sheet stock. The material shall be of a certified, high quality, non-corrosive, stress relieved thermoplastic, black in color, and UV stabilize for maximum protection.

The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of 1/2" polypropylene and shall have a standard dimension of 8" Round x 8" high with a molded cover. The tower shall be located on the curb side rear corner of the tank. Inside of the fill tower approximately 2" down from the top shall be fastened a combination vent/overflow pipe which shall be of standard schedule 40 polypropylene pipe with minimum ID of 4" designed to run vertically through the tank. The transverse swash partitions shall be manufactured of 3/8" polypropylene which shall interlock with a longitude partition constructed of 1/2" polypropylene.

If a skid unit tank is requested, the tank base will be manufactured of 3/4" polypropylene welded to the bottom of the tank.

There shall be one (1) 1/4" deep X 6 1/2" diameter recess in floor to act as sump.

Two slotted mounting pads on top of tank for mount addition equipment.

There shall be a tank drain located on the rear tank wall with a stainless-steel valve.

1.00.07 400 gallons, (38.5" H)

### 1.01 Foam Tank

Foam Tank, there shall be a drop in 8-gallon foam tank to accommodate the use of the foam system.

## SECTION 2: BOOSTER TANK PIPING, FILLS, & GAUGES

### 2.02 Tank Level Gauge

- One (1) liquid level gauge with a clear sight tube and to be located at passenger's side rear wall of the tank. Pressure transducer mounted on the outside of the tank in an easily accessible area. Sealed foam tanks (if so equipped) will require zero pressure vacuum vents.
- Super bright LED display viewable from 180 degrees with a visual indication at multiple accurate levels.
- Weather resistant connectors to connect to the digital display, the pressure transducer, and the apparatus power. Additional displays are easily integrated and will receive data from the same source as the Master Display; no additional transducers required.
- Tank level gauge indicates the liquid level on easy to read LED display.

2.02.04 One (1) Innovative Controls SL Series Plus Tank Level Gauge

2.02.04.01 Installed on the pump panel. –Master

2.02.05 One (1) Innovative Controls SL Series Plus “Mini” Tank Level Gauge

2.02.05.01 Installed on the center console. – Needs Master

## **SECTION 5: FLATBED BODY**

### **5.00 Apparatus Body**

The aluminum flatbed body constructed of all aluminum. The flatbed will be fabricated with aluminum stringers running front to back above the frame and C-channels running side to side. The top surface will be tread plate. An aluminum angle will be welded to the perimeter of the body. The body will be 96” wide and built to accommodate the chassis cab to axle for the best weight distribution possible.

5.00.01 119” body length (60” cab to axle)

## **SECTION 6: FLATBED BODY COMPARTMENTS**

### **6.00 Body Compartments**

All compartments are constructed of .100 Aluminum Tread-Brite, and will have a door activated LED compartment light, cable door restraints, corrosion resistant vents, black Turtle Tile plastic dry decking, and floor drains.

#### **6.01 Transverse Compartment**

One (1) full width transverse compartment provided behind the cab on top of the flatbed. One swing up aluminum door on each side, held in the open position with gas struts.

6.01.01 Compartment to be 96” wide x 40” tall by 26” wide for a 60” cab to axle

#### **6.02 Over Wheel Compartment**

One compartment above the flatbed to approximately 30” tall x 24” deep. One swing up aluminum door, held in the open position with a gas struts.

6.02.01.01 Street side

6.02.01.02 Curb Side

#### **6.03 Front Lower Compartment**

Compartment under the flatbed ahead of the rear wheels.

6.03.01.01 Street side

6.03.01.02 Curb Side

#### **6.07 Dunnage/Hose Basket, Aluminum**

Dunnage basket on the side of the body above the compartments, made of aluminum tread brite, with rubber tile installed in the bottom. This area will be 10” tall x 21” wide. Ventilation slots will be provided on each side.



- 6.07.03 Dunnage/Hose basket to be located on the street side, extending the length of the body.
- 6.07.04 Dunnage/Hose basket to be located on the curb side, extending the length of the body.

6.07.06 Velcro straps installed on top sides of dunnage to secure cargo

6.07.06.01 Straps on street side

6.07.06.02 Straps on curb side

## SECTION 7: RUNNING BOARDS, CATWALKS, & REAR STEP

### 7.00 Running Boards & Chassis Steps

7.00.06 OEM Chassis Running Boards, one (1) set of running boards, provided by the manufacturer installed on the chassis for ease of entry.

### 7.02 Rear Step

An 8' deep tread plate step is provided at the rear of the flatbed. A smooth aluminum rear light skirt provides a kick plate.

## SECTION 8: GRAB RAILS & FOOT STEPS

### 8.00 Grabs Rails

The grab rails are made of 1 ¼ " diameter extruded aluminum tubing with knurled finish and chrome plated stanchion brackets.

#### 8.00.01 Rear Grab Rails

Grab rails provided at the rear, for access into the flatbed

8.00.01.02 One (1) Grab Rail, Street Side

8.00.01.03 One (1) Grab Rail, Curb Side

### 8.01 Folding Access Steps

#### 8.01.05 Below Rear Platform Pull-Out Steps

Large aluminum pull out steps provided at the rear for access to the rear step area. Zico part number PS-8-5.

8.01.05.01 One (1), Curb Side

8.01.05.02 One (1), Street Side

#### 8.01.06 Below Transverse Pull-Out Steps

Large aluminum pull out steps provided at the rear for access to the rear step area. Zico part number PS-8-5.

|            |                      |
|------------|----------------------|
| 8.01.06.01 | One (1), Curb Side   |
| 8.01.06.02 | One (1), Street Side |

## SECTION 9: ELECTRICAL EQUIPMENT

### 9.00 Apparatus Electrical

- Electrical Wiring

The electrical compartment to be installed in the compartment above the rear wheels on the curb side. The body and chassis shall be wired as independent modules and connected as a completed unit at the final assembly via electrical connectors located in the electrical compartment. Seals shall be provided on each individual wire and the assembly as a whole. All wiring for the apparatus body shall be within a temperature resistance harness. All wires in each harness shall be color-coded. Wiring shall be run along structural rails and tied in a neat and orderly manner. A backup alarm will be wired into the reverse circuit to sound when the vehicle is placed in reverse. The key on position energizes a relay which acts as the master switch connecting the apparatus to the battery system, eliminating power drain while the truck is not in use.

- Overload Protection

The apparatus circuits requiring load protection shall utilize sealed relays and automatic reset circuit breakers.

### 9.01 DOT Lighting Details

- A total of seven (7) LED clearance lights and five (5) red LED lights installed at the rear.
- Two (2) amber LED lights are installed on the front street and curb sides.
- Reflectors are installed per DOT specifications.
- A red warning light visible to the driver in the chassis cab that illuminates when a compartment door is ajar/open.
- An illuminated license plate bracket installed at rear.

### 9.02 Lower Level Rear Lighting

#### 9.02.03 LED Tail Light Package

Two (2) LED stop/tail/turn and white LED backup lights installed at the rear.

## SECTION 10: EMERGENCY SIREN & LIGHTING EQUIPMENT

### 10.00 Apparatus Control Center

All emergency lighting, options, and accessories are controlled at a master control center in the cab.

The apparatus control center:

- Controls all warning lights and scene lights
- Mounted Electronics, Sirens, and Radios – If equipped.
- Features lighted identification plates on a non-glare panel face that clearly identify each switch and its function.
- Top plate bolted on for maintenance and adding additional items.

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All warning packages are fully NFPA compliant and certified by the lighting component manufacturer to meet all requirements.

**10.00.01 Factory Dash Switches**

For use with low option content. All lighting controlled from the 4 switches located on chassis dashboard.

**10.01 Light Bars**

**10.01.01 Whelen model JE2NFPA Justice Series light bar**

Whelen model JE2NFPA Justice Series, Super-LED low-profile, 56" long. Covers front and front side zones. The light bar has four (4) linear corner modules with nine (9) Super-LED light heads per module, and six (6) CON3 modules with three (3) CON3 Super-LED light heads per module.

**10.01.01.02 Mounted on the front of the body.**

**10.02 Sirens:**

**10.02.01 Whelen Siren**

Whelen model 295SLSA1 Siren 200-watt, six (6) function Class A electronic siren, mounted in the chassis cab in a location convenient to the driver. The electronic siren includes full function, 17 Scan-Lock siren tones, and hard-wired microphone. The siren control is lighted for easy night operation. Available with three (3) siren mounting locations.

**10.02.01.02 Siren speaker flush mounted street side**

**10.04 Lower Level Lights**

**10.04.03 Front/Rear Whelen C6 Series**

Two (2) Whelen C6 series LED lights with black bezels mounted to the grill of the chassis and two (2) mounted on the rear light skirt.

**10.04.03.01 Front/Rear Flashers, Red, C6 Series**

**10.05 Intersection Lights**

All lights mounted above 18" from the ground, and no higher than 60", (preferably centered in the reflective striping if present). One (1) positioned on the front quarter panels, and one (1) on the body rail at the rear.

**10.05.01 Intersection, Red, C6 Series, Two (2) each side**

**10.06 Upper Level Warning**

**10.06.03 Side/Rear Whelen M6 Series Upper Flashers**

One (1) Whelen M6V2R Series LED Flasher/Scene Light on the rear of each storage tray, and one (1) on each side of the storage tray, positioned towards the rear. If six (6) flashers are requested, another one (1) flasher will be installed on the side of the storage tray towards the front.

10.06.03.02 Side/Rear Flashers, Red, M6V2R Series, Two (2) each side and one (1) to the rear of each dunnage basket. (Six (6) Total)

## 10.07 Scene lights

Lights are controlled from individual switches on the control center located in the chassis cab.

### 10.07.04 Pump Work Area Lights

There are two (2) Whelen PELCB, 1000 lumen flood lights mounted on the rear dunnage baskets pointing inward towards the pump area. The lights shall be controlled from a unit mounted switch.

## SECTION 11: PAINTING, LETTERING, STRIPING, AND SIGNS

### 11.01 ID plate

There is a permanent plate located in the center top chassis cab with the following information:

- Quantity and type of fluids used in the vehicle. This plate includes:
- Engine oil, quantity.
- Engine coolant, quantity.
- Chassis transmission fluid, quantity.
- Pump transmission fluid, quantity.
- Drive axle lubrication fluid, quantity.
- Air conditioning refrigerant, quantity.
- Air conditioning lubrication oil, quantity.
- Power steering fluid, quantity.
- Front and rear cold tire pressure
- Number of personnel the vehicle is designed to carry located in an area visible to the driver.
- Height and length of the vehicle in feet and inches
- Gross vehicle weight rating (GVWR) in pounds

### 11.03 Vinyl Lettering

11.03.01 Provided on the chassis doors.

11.03.03 Provided for the customer unit number on the street and curb side chassis fenders.

### 11.05 Reflective striping

The apparatus body and chassis will have a reflective stripe on each side and the front per NFPA 1901 standards.

11.05.01 4" wide reflective stripe with a 1" wide reflective stripe spaced approximately 1/2" above. White on chassis, 4" red only on flatbed rails.

11.05.03 White reflective tape inside chassis doors- Per NFPA 1901 standards any door designed to allow persons to enter or exit has a minimum of 96 square inches of retro-reflective material affixed to the inside of the door.

## 11.06 Rear Chevron

11.06.03 Diamond Grade Chevron

The rear area above the tailboard will include red and fluorescent yellow/green diamond grade chevron retro-reflective striping installed, with each stripe a minimum of 6" wide.

## SECTION 12: CORROSION PROTECTION & MUD FLAPS

### 12.00 Corrosion Protection

All fasteners which are used in aluminum are plated with Magnaguard 560 to prevent galvanic corrosion resulting from dissimilar metals.

### 12.01 Mud Flaps

There are two (2) mud flaps installed one (1) behind each of the rear wheels. The mud flaps are constructed of ¼" thick black rubber, with weighted chrome trim at the bottom. Stiffeners are provided when rear lockers are not requested.

## SECTION 13: PUMP & PLUMBING

### 13.00 Portable Pumps

Portable Pumps have the following standard features:

- High-strength aluminum alloy casing and discharge valve
- Aluminum alloy engine adapter
- Bronze impeller and wear rings
- Stainless steel impeller shaft
- Direct drive
- A pump control panel attached to the pump unit.
- The pump control panel includes an ignition switch, starter button, stop button, engine throttle, and pressure gauge.
- The primary pump primer is a Guzzler manual, diaphragm pump for priming suction lines. Lift capacity of 12'. Exhaust actuated primer may be equipped as backup.
- The engine compartment will have an oil drain access in the floor for ease of changing the pump engine oil.
- Pump drain: one (1) pump drain provided to drain the suction side of the pump. The pump drain is controlled from a control handle located directly below the pump compartment.
- An electric fuel pump is installed in all applications to assist in delivering fuel to the engine.

13.00.02 Darley Model 2BE 18V Engine driven Pump

A Darley, model 2BE 18V, 18hp Vanguard engine driven pump with the following features:

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Pump Ratings:  
375 GPM @ 25 PSI  
300 GPM @ 45 PSI  
150 GPM @ 115 PSI  
100 GPM @ 140 PSI

The engine is a four-cycle air cooled 18 HP Briggs and Stratton, model OHV Vanguard V-Twin, gasoline engine, with integral fuel pump, 12-volt electric start, and manual start. Pump comes equipped with exhaust primer.

13.00.02.01 The engine driven pump's fuel to be supplied by the chassis fuel tank

### 13.00.06 Portable Pump Options

13.00.06.01 Tank to Pump 2 ½" Line -

A 2 ½" tank to pump line provided from the water tank to the pump with a 2 ½" valve.

13.00.06.03 Tank Fill/Pump Re-Circulating 1" Line

A 1" tank fill/pump re-circulating line provided from the pump to the water tank with a 1" valve and 1" plumbing.

13.00.06.04 Non-Gated 2 ½" Suction Line

A 2-1/2" suction pipe provided at the pump for drafting or direct fill. It is equipped with a 2-1/2" NPT male X 2 1/2" NST female chrome plated swivel adapter with screen, and a 2 1/2" chrome plated plug and chain.

### 13.02 Discharges

Discharges include:

- Industrial grade valves
- Chrome cap and chain

13.02.01 Portable Pump Discharges

13.02.01.01 One (1) 1 ½" Discharge

13.03.1193 TFT RC Electric Monitor

A TFT Tornado, remote controlled monitor mounted on the front chassis bumper in the center, as low as possible. The remote-controlled monitor includes a wireless operator station, and nozzle. A manual valve will be supplied at the discharge head for the front monitor

### 13.04 Foam System

13.04.03 Trident Foam Mate 1.0

There shall be a Trident Foam Mate 1.0, around the pump, foam system plumbed to the discharge head of the water pump. For use with Class A Foam Only.

## SECTION 14: HOSE TRAYS, CROSS LAYS, & PRE-CONNECTS

### 14.00 Pre-connect hose tray

One (1) slide out poly hose tray located to the rear of the transverse locker to fit 150' of 1 ½" hose.

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14.00.01 Pre-connect plumbed with 2", gated with a 2" valve, and terminated with a swivel fitting 1 1/2" NST male terminated in the hose storage box. The swivel to be installed to swivel from side to side.

#### 14.01 Hose Tray Options

14.01.02 Velcro straps

Two Velcro hose straps mounted on the hose tray to secure the hose.

## SECTION 16: HOSE REEL

### 16.01 Electric hose reel with Booster Lite Hose

One electric rewind hose reel with hose rollers, gated with a 1" valve and supplied with booster lite hose.

16.01.04 1" Booster Lite hose located on the rear curb corner, facing curb side.

16.01.04.01 100 ft.

## SECTION 17: CHASSIS ACCESSORIES

### 17.04 Receiver Hitch, Winches, & Bumpers

17.04.01 Rear Receiver Hitch

Class III 2" receiver hitch tube installed on the rear of the apparatus and furnished with a 7-pin electrical receptacle and safety chain rings. Both sides of the receiver hitch will have tow eyes cut into the plates.

17.04.04 Thunderstruck Bumper/Grill Guard

Heavy duty bumper/grille guard, there shall be one (1) Thunderstruck heavy-duty bumper/grille guard installed with a 2" receiver tube for winch mounting. The bumper/grill guard will be black powder coated for superior protection.

17.04.04.01 With monitor plumbing

### 17.05 Tires and Lift Kits

17.05.02 Continental MPT81 Super Singles

Continental MPT81 tires (335/80R20) installed on the chassis that are 40" x 13.5" x 19.5", 22-ply, with a rating of 6400lbs per wheel and mounted on a 20" x 11" steel black powder coated wheels. Extended front fender flares installed to cover extra height and width of the tires, and 4" lift kit installed. Baja Steps, and Thunderstruck Bumper required.

17.05.02.01 MPT 81 w/lift kit for 2017 F550 Ford Chassis

17.05.02.03 One (1) MPT 81 Spare Tire

17.05.06 Tire Carrier

Tire rack, there shall be one (1) tire rack supplied. For the rear corners, a guard rail with no full-length storage tray required.

17.05.06.01 Tire Carrier located on the top of the tank.

## 17.06 Chassis Exhaust

### 17.06.01 Standard Chassis Exhaust Modifications

Chassis exhaust is modified to exit passenger side behind the rear wheels and to the edge of the body.

## SECTION 18: LOOSE EQUIPMENT

### 18.05 Hose Nozzle

The selectable, dual gallonage nozzle shall be furnished with customer requested flow settings. Ball shut off nozzle with fog and straight stream patterns provided.

18.05.01 1" Task Force Tips model # DS1040P – 10 and 40 GPM @ 100 PSI

18.05.01.01 Qty One (1)

## SECTION 19: CHASSIS

19.00 Midwest Fire Equipment furnished per specification attached:

| <b>Chassis Summary</b>     |             |                                 |          |
|----------------------------|-------------|---------------------------------|----------|
| <b>Manufacturer</b>        | Ford        | <b>Cab to Axle (in.)</b>        | 60"      |
| <b>Model</b>               | F-550       | <b>Wheel Base (in.)</b>         | 145"     |
| <b>Engine Manufacturer</b> | Ford        | <b>Front Axle Rating (Lbs.)</b> | 7,500    |
| <b>Engine Model</b>        | Triton V-10 | <b>Rear Axle Rating (Lbs.)</b>  | 14,706   |
| <b>Horsepower</b>          | 288         | <b>Paint Color Code</b>         | Race Red |