



Fire Apparatus Co.

# **Model Attack 1 662 Light Brush Engine Diesel Based Chassis and Pump Engines**

Available on GSA Contract No. GS-30F-1033D

Effective March 1, 2004





Fire Apparatus Co.

**Model Attack 1 662 Light Brush Engine**

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# General Services Administration

Authorized Federal Supply Schedule Price List  
**Prices Shown Herein are Net (discount deducted)**

Fire Apparatus Co.

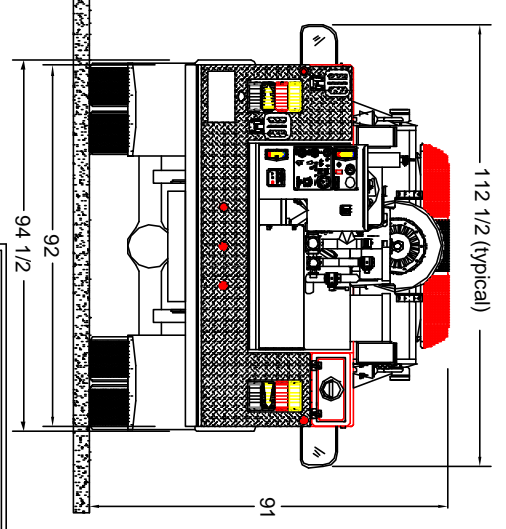
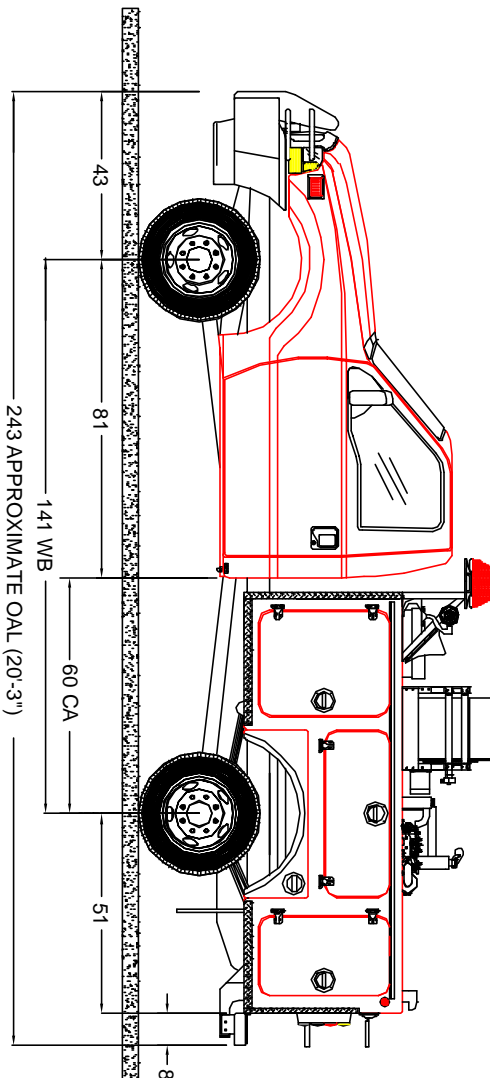
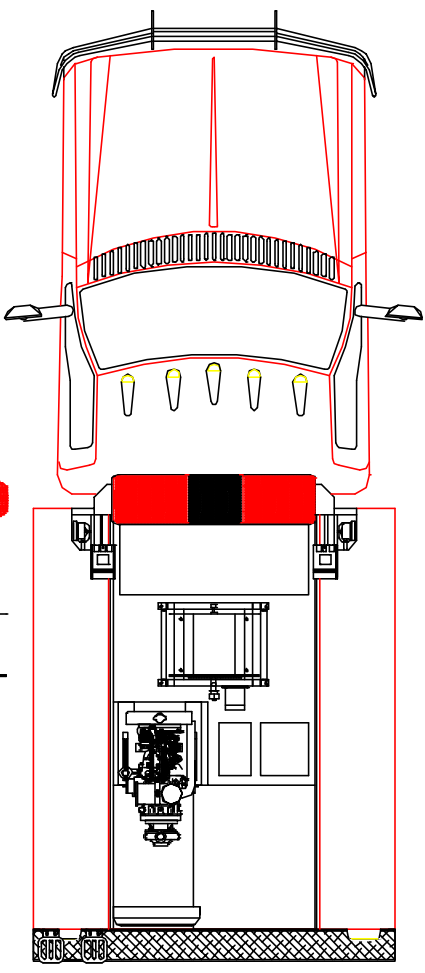
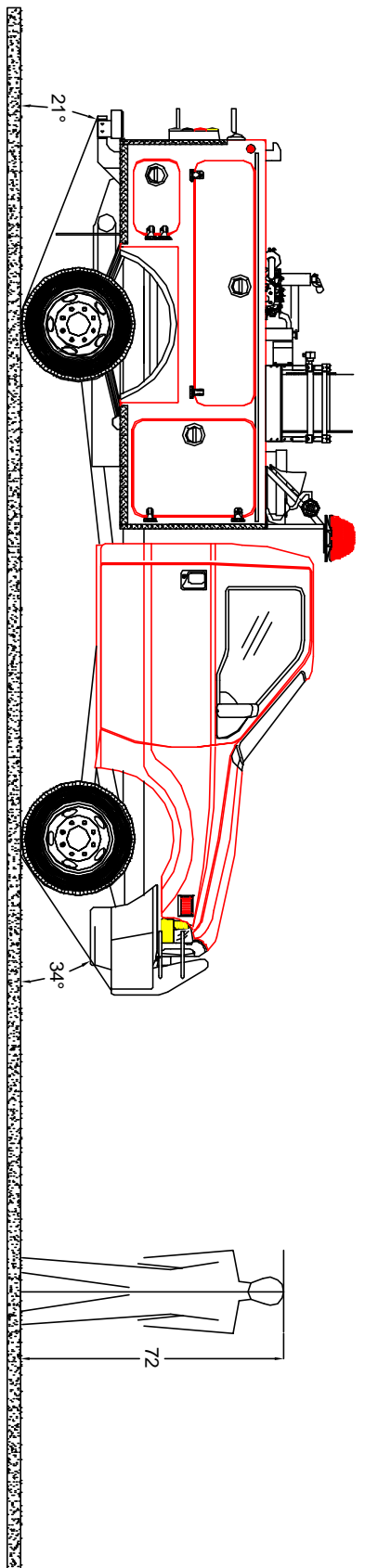
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Online access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**, a menu-driven database system. The INTERNET address for **GSA Advantage!** is: <http://www.gsa.gov>.

Schedule: Fire Fighting and Waste Disposal Vehicles, FSC Group 42, Part IV, Class 4210  
 Contract No.: GS-30F-1033D, Period: July 1, 2001 through June 30, 2006  
 Contractor: J&J Acquisition Corp. d/b/a S&S Fire Apparatus Co.  
 4353 W. 1900 N-48, Fairmount, IN, 46928  
 Phone: 800-707-8946 or 800-451-7180 or 765-948-3366 FAX: 765-948-3370  
 Business Size: Small Business Qualification

### CUSTOMER INFORMATION

- 1a. Awarded SIN: 618-01
- 1b. Lowest priced model: Attack 1 662, \$84,176.00
- 2. Maximum order: Four (4) units
- 3. Minimum order: \$100.00
- 4. Geographic coverage: 48 Contiguous States & the District of Columbia, U.S.A.
- 5. Production point: City of Keller, Tarrant County, State of Texas
- 6. Statement of net price: See pages 6-13
- 7. Quantity discounts: None within Maximum Order Limitation
- 8. Prompt payment terms: 0.4% - 10 days; 0.2% - 20 days; Net - 30 days
- 9a. Gov't credit card: Accepted
- 9b. Discount for credit card: None
- 10. Foreign items: None
- 11a. Time of delivery: 210 days ARO on base model (see page 15 for more info)
- 11b. Expedited delivery: Not available
- 11c. Overnight & 2day del'v.: Not available
- 11d. Urgent requirements: Contact Contractor
- 12. F.O.B. point: Origin, Contractor's facility
- 13. Ordering address: Same as contractor's address above
- 14. Payment address: Same as contractor's address above
- 15. Warranty provision: See page 17
- 16. Export packing charges: Not applicable
- 17. Terms of gov't credit card: Contact Contractor
- 18. Terms of rental, maint, & repair: Not applicable
- 19. Terms of installation: Not applicable
- 20. Terms of repair parts: Not applicable
- 21. List of service points: Contact Contractor
- 22. List of participating dealers: Not applicable
- 23. Preventative maintenance: Normal per manufacturer's manuals provided on delivery.



- Notes:
1. All dimensions in inches unless otherwise noted
  2. All dimensions and item locations are approximate and are subject to minor variations that occur during construction
  3. Measurements from ground based on a 33-1/2" frame height and may vary
  4. Chassis: Ford F-450 4 Door
  5. Pump: Waterous E501 26.5 hp Diesel Driven Auxiliary Pump
  6. Tank: 280 Gallon Water Tank w/17 gallon Foam Cell

**IMPORTANT NOTICE TO CUSTOMERS**

THIS DRAWING IS FOR VISUAL REPRESENTATION ONLY. WRITTEN SPECIFICATIONS SUPERSEDE THIS DRAWING. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH DETAILS DRAWINGS FOR PRODUCTION. THIS DRAWING REMAINS THE PROPERTY OF S&S FIRE APPARATUS AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THE DRAWING MUST BE SURRENDERED UPON RECEIPT.

**S&S FIRE APPARATUS, CO.**  
 13531 W. 140th N. 4th FLOOR, SUITE 111, ANDERSON, MN 55302  
 OFFICE: 763-946-3588 FAX: 763-946-5810

DRAWN BY: T. IRWIN		FOR	
CHECKED BY: D. KELLEY		662 BASE OPTION UNIT	
DO NOT SCALE THIS DRAWING	DRAWING NAME	REVISION DATE	SCALE
	BLOCK	04/082004	FIT

## Model 662 Light Engine - Summary Specifications

Detail Specification Available Upon Request

	<u>S&amp;S</u>	<u>Other</u>	<u>Other</u>
<b>Chassis</b>			
1 Ford F-450 15,000 GVWR, 4x4, Two-Door Cab.	Yes		
2 325 HP Turbo Diesel Engine, 560 Lb/Ft Torque @ 2000 RPM	Yes		
3 6spd Manual Transmission w/ PTO Provision.	Yes		
4 Dual 115 Amp Alternators	Yes		
5 (2) Batteries 750 CCA.	Yes		
6 High Idle Control	Yes		
7 HD Cooling System.	Yes		
8 Four Wheel Drive / Ford 2 Speed Transfer Case.	Yes		
9 6,000 Lb Front Drive Axle, 6,000 Lb Front Suspension w/ Shocks.	Yes		
10 11,000 Lb Rear Drive Axle, 4.88 Ratio, 11,000 Lb Rear Leaf Suspension w/ Shocks.	Yes		
11 Limited Slip Rear Axle 4:88 Ratio	Yes		
12 Max Payload Package	Yes		
13 Snow Plow Prep Package	Yes		
14 Front & Rear Anti-Lock Disc Brakes.	Yes		
15 141" Wheelbase, 60" CA.	Yes		
16 Front & Rear Tow Hooks	Yes		
17 40 Gal Single Fuel Tank w/Aux Fuel Tap.	Yes		
18 225/70 R19.5 All-Terrain Tubeless Tires Rear & All Season Front.	Yes		
19 Full Size Spare Tire w/ Rear Storage Compartment	Yes		
20 Chassis Cab Air Conditioner.	Yes		
21 AM/FM/ Clock Radio.	Yes		
22 3 Man HD Vinyl Bench Seat.	Yes		
23 Tilt Steering Column W/ Speed Control.	Yes		
24 Engine Block Heater	Yes		
25 Day/Night Rear View & Swing Out Telescopic Low Mount Mirrors.	Yes		
26 Single Non Metallic Color To Match Agency Specification.	Yes		
27 Powder Coated Custom Illuminated Electrical 6 Switch Control Panel in Cab.	Yes		
28 Powder Coated SS Electrical Component Compartment w/ Hinged Lid.	Yes		
29 Dash Mounted Air Filter Restriction Monitor.	Yes		
30 Low Voltage Warning Indicator	Yes		
31 Door Ajar indicator Light Flashing Red	Yes		
32 Color & Function Coded Wiring W/ Auto Reset Breakers And Self-Diagnostic Lights.	Yes		
33 Polarized Charging Receptacle.	Yes		
34 Duetz Weather Proof Bulkhead Harness Connectors	Yes		
35 1906 NFPA Load Test Compliant	Yes		
36 Transfer Case Impact Protection	Yes		
37 Aluminum Lower Radiator Shield	Yes		
38 Rightside Sway Bar Support Shield	Yes		
39 Steering Stabilizer Shock Shield	Yes		
40 Factory Fuel Tank Skid Plate	Yes		
41 Front Tow Hooks	Yes		
42 Rear Tow Hooks	Yes		
43 Front Grille Brush Guard w/Integration for Siren Speaker and Front Flashers.	Yes		
44 Two 360-Degree Swivel Work Floodlights On Top Of Body w/ Cab Switches.	Yes		

## Model 662 Light Engine - Summary Specifications

Detail Specification Available Upon Request

S&S      Other      Other

### Apparatus Fire Body

45	Fiberglass Composite Body And Compartment Construction.	Yes		
46	Fire Retardant Resin	Yes		
47	High Performance Gelcoat 22-25 mil w/ UV inhibitor	Yes		
48	PVC Foam Cores	Yes		
49	Right & Left Side Front Compartments - 34"W X 39"H X 19"D.	Yes		
50	(3) Adjustable Locking Shelves per Side w/ Safety Pins	Yes		
51	Upper Front Compartment - Curb Side"72W X22 "H X 19"D.	Yes		
52	(1) Adjustable Locking Shelf w/ Safety Pins	Yes		
53	Street Side 44"W X 22" H X 19" D	Yes		
54	(1) Adjustable Locking Shelf w/ Safety Pins	Yes		
55	Left Rear Compartment -28"W X 39"H X 19"D	Yes		
56	(2) Adjustable Locking Shelves w/Safety Pins	Yes		
57	One 28"W X 16.5"H X 19"D,	Yes		
58	Open	Yes		
59	Integrated Hard Hose Rear Access Compartment For Three 2" X 8' Suction Hose.	Yes		
60	Aluminum Tubular Severe Terrain Body Understructure	Yes		
61	Fiberglass Composite Close Molded Compartment Doors, PVC Foam Filled.	Yes		
62	Zolotone Spatter Painted Compartment Interiors	Yes		
63	Flow thru Compartment Ventilation	Yes		
64	Slip Resistant Compartment Top Walking Surface	Yes		
65	Turtle Tile Compartment Bottoms.	Yes		
66	Compartment Activated Lighting W/Door Open Warning Indicator.	Yes		
67	SS Strap Hinges.	Yes		
68	SS 3pt D-Ring Door Latches w/ Rod Guards	Yes		
69	Overcenter Door Checks	Yes		
70	Fully Illuminated Compartments w/ Door Activated Switches	Yes		
71	Aluminum Bright Tread Bulkhead / Tailskirt And Body Shielding.	Yes		
72	Spring-Loaded Tank And Body Frame Mounting System.	Yes		
73	Rear Cab Window Guard W/ Light Bar & Work Light Mounting Positions.	Yes		
74	Non-Slip Tubular Style Rear Bumper Powder Coated Black.	Yes		
75	7"x3" Tail Light Package w/ Polished Aluminum Housings	Yes		
76	Rubber Grommet Shock Mounted DOT Marker Light Package	Yes		
77	Polished Aluminum Gas Fill Recessed Cup	Yes		
78	Gel Coat /Paint Automotive Finish.	Yes		
79	NFPA Reflective Striping Package	Yes		
80	Mud Flaps w/ Mounting Brackets	Yes		
81	SS Hardware Thru-out	Yes		

### NFPA 1906 Red Emergency Lighting Package w/ Full Feature Siren.

82	Whelen NFPA Centurion R/C/R Light Bar	Yes		
83	Whelen 100 wt Full Feature Siren	Yes		
84	Forward Weldon Red Flashers	Yes		
85	Front Whelen Halogen Red Intersectors	Yes		
86	Rear Weldon Halogen Amber Lower Flashers w/ Aluminum Housing	Yes		

## Model 662 Light Engine - Summary Specifications

Detail Specification Available Upon Request

	<u>S&amp;S</u>	<u>Other</u>	<u>Other</u>
<b>Pump Package</b>			
87 Rear Mounted Waterous E-501 With Daihatsu 26.5 HP Water Cooled Diesel Engine	Yes		
88 105 GPM @ 100 PSI, 25 GPM @ 450 PSI. Pump Aux Engine Gauge Package:	Yes		
89 Tachometer	Yes		
90 Water Temperature	Yes		
91 Oil Pressure	Yes		
92 Ammeter	Yes		
93 Hour Meter	Yes		
94 280 Gal. Lifetime Polypropylene Fire Service Water Tank	Yes		
95 17 Gal. Integral Foam Tank Plumbed To Foam System.	Yes		
96 3" Clean Out Port At Sump W/ 1/4 Turn Valve Drain Valve.	Yes		
97 Foam Cell Sump Clean-Out	Yes		
98 Integral Personnel Gear Storage Compartment w/Drain.	Yes		
99 Integral Spare Tire Storage Compartment w/ Lockable Door.	Yes		
100 Rear Hose Storage Tray.	Yes		
101 Electronic Water Level Site Gauge At Rear Of Apparatus.	Yes		
102 Stainless Steel Welded Manifold System	Yes		
103 Pump By-pass Cooling Line w/ Check Valve	Yes		
104 Elkhart Fire Service E-Handle Control Valves.	Yes		
105 2" NPSH Overboard Suction Valve w/ Chrome Cap and Chain.	Yes		
106 2" Manual Priming Port w/ Chrome Cap and Chain.	Yes		
107 2" Tank To Pump Control Valve.	Yes		
108 1 1/2" Tank Refill Control Valve.	Yes		
109 1 1/2" Rear Discharge w/ Chrome Cap and Chain.	Yes		
110 1" Hose Reel Control Valve.	Yes		
111 Accommodations For Optional Discharges.	Yes		
112 One Hanney Alum. Super Booster High Pressure Hose Reel NPSH	Yes		
113 Hi/Hi Hose Rollers	Yes		
114 2/3HP Electric Rewind	Yes		
115 Rewind Buttons Mounted R&L Sides Of Vehicle.	Yes		
116 Circuit Breaker Protected	Yes		
117 Manual Rewind Crank Provided	Yes		
118 Hypro Foam Pro 1601 Automatic Foam System	Yes		
119 Easy Operation On/Off Switch and % Concentrate Dial	Yes		
120 Tank /Integrated 17 Gal Foam Cell	Yes		
121 Foam System Foam Strainer	Yes		
122 SS Satin Finish Custom Pump Operator Control Panel.	Yes		
123 Panel Illumination	Yes		
124 Noshok Compound Freeze Protected Pressure Gauge.	Yes		
125 Pump Engine Safety Shut Down System.	Yes		
126 Electric Primer for Quick Priming	Yes		
127 Valve Placards Package	Yes		
128 Aluminum Operations Placards	Yes		
129 Pump Oil Drain Plumbed Below Chassis	Yes		
130 NFPA Chassis Placards Package	Yes		
131 (2) Operations/Parts Manuals	Yes		
132 (1) Operations/Parts Manual CD	Yes		
133 Hydrostatic Plumbing Testing	Yes		
134 Pump Performance Testing	Yes		
135 Factory Provided Operator Training at S&S	Yes		

**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options      GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

**NAWO** – Not Available With Option

		<u>Net Price</u>
<b>Base Price - Model 662 as per specification on F450 4x4 Std. Cab Chassis</b>		<b>\$ 84,176.00</b>
<b><u>Options for All Chassis Models</u></b>		
1) 5 Speed Automatic Transmission – Diesel Engine Only (37-06-0500)	Add	\$ 1,482.00
2) HD Factory Installed Vinyl Bucket Seats (37-10-3300)	Add	\$ 197.00
3) 40/20/40 Split Bench Seat in Cab (37-10-3500)	Add	\$ 343.00
4) Warn 12k Commercial / Military Spec Winch Package With Remote Cable. Includes 125ft Cable With Hook, Roller Flare Lead, Cable Tensioner. (37-50-1200)	Add	\$ 2,120.00
5) Ramsey 8000 lbs Portable Receiver Type Winch. Requires 2" Receiver Tube <b>(OAWO# 6 or 8)</b> . (37-50-2400)	Add	\$ 1,103.00
6) Hitch - 2" Receiver Tube With 4 Pin Trailer Socket, Hitch Adaptor, Combo 2" Pintal/Ball & Hitch Lock. (37-50-2300)	Add	\$ 299.00
7) HD Extended Front Bumper w/ HD Brush Guard (37-50-1800)	Add	\$ 439.00
8) 2" Receiver Tube for HD Front Bumper <b>(OAWO# 7)</b> (37-50-2200)	Add	\$ 47.00
9) One Pair Zephyr Wheel Chocks Mounted To Front Bulkhead (34-18-0600)	Add	\$ 286.00
10) Additional Ford Factory Installed 19 Gallon Diesel Fuel Tank (Total 59 Gallons) (37-07-0400, 37-50-0400)	Add	\$ 721.00
11) Ford Factory Installed AM/FM Cassette Radio IPO Std Radio (37-10-2200)	Add	\$ 116.00
12) S&S Installed Jenson Weatherband CD AM/FM Radio IPO Std Radio (37-50-2500)	Add	\$ 527.00
13) Ford Factory Custom Color Paint (Non-standard color, but still available from Ford). Please confirm paint requirements with S&S to determine need for custom color. (30-02-0350)	Add	\$ 246.00
14) S&S Custom Color Chassis Repaint for <u>Two Door</u> (Required when Ford does not have a standard or custom color to match agency requirements). (30-02-5600)	Add	\$ 1,799.00
15) S&S Custom Color Chassis Repaint for <u>Four Door</u> Cab (Required when Ford does not have a standard or custom color to match agency requirements). (30-02-5800)	Add	\$ 2,408.00



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Model 662 Light Engine and options      GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

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16) 225/70R19.5 Max Traction Tires from Ford IPO Front All-season / Rear All-terrain (37-12-0550)	Add	\$	20.00
17) Michelin XDS M&S 245-70 R19.5 16 Ply IPO Ford Factory Tires (37-50-0520)	Add	\$	1,393.00
18) Safety Kit (Fire Extinguisher and Safety Triangles) (34-25-0200)	Add	\$	166.00

**Options for F450 Chassis Model Only**

The F450 chassis has a 15,000 lb GVWR with a 6,000 lb front GAWR and a 11,000 lb rear GAWR. It should be selected with 280 gallon or less tank sizes.

19) F450 Super Cab IPO F450 Standard Cab. 162" Wheelbase (21" longer than Standard cab). Features rear opening half-doors. (37-00-0520)	Add	\$	2,039.00
20) F450 Crew Cab IPO F450 Standard Cab. 176" wheelbase (35" longer than Standard cab). Four full size doors for crew entry. (37-00-0540)	Add	\$	3,161.00

**F550 Chassis Model and Options**

The F550 chassis has a 17,500 lbs GVWR with a 6,000 lbs front GAWR and a 13,500 lbs rear GAWR. It should be selected with 300 gallon or more tank sizes.

21) F550 Standard Cab IPO F450 Standard Cab. (37-00-0700)	Add	\$	1,624.00
22) F550 Super Cab IPO F450 Standard Cab. 162" Wheelbase (21" longer than Standard cab). Features rear opening half-doors. (37-00-0720)	Add	\$	3,659.00
23) F550 Crew Cab IPO F450 Standard Cab. 176" wheelbase (35" longer than Standard cab). Four full size doors for crew entry. (37-00-0740)	Add	\$	4,517.00

**F350 Chassis Model and Options (OAWO# 98 - 200 gallon tank only)**

24) F350 Gasoline Engine Standard Cab IPO F450 Standard Cab. It shall have an 11,200 lb GVWR with a 4,000 lb front GAWR and a 9,750 lb rear GAWR. (37-00-0300)	Deduct	\$	8,412.00
25) 4 Speed Automatic Transmission for F350 Gasoline Model Only. (37-06-0700)	Add	\$	938.00
26) F350 Diesel Engine Standard Cab IPO F450 Standard Cab. It shall have a 12,500 lb GVWR with a 4,800 lb front GAWR and a 9,750 lb rear GAWR. (37-00-0320)	Deduct	\$	3,943.00

**Apparatus Warning Light and Siren Options**

27) Whelen LED Front Flashing Lights IPO Halogen (24-06-1300)-(24-06-1700)	Add	\$	12.00
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**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

**NAWO** – Not Available With Option

28) Whelen LED Front Side Intersector Lights IPO Halogen (24-06-2300)	Add	\$	42.00
29) Whelen LED Lightbar IPO Halogen (24-06-0550)	Add	\$	1,379.00
30) Whelen LED Rear Amber Flasher IPO Halogen (24-06-3350)-(24-06-3000)	Add	\$	76.00
31) Whelen Rear 4 Light Assembly w/ LED Stop/Tail & Turn Lights (26-04-1300)	Add	\$	424.00
32) Delete NFPA Emergency Lighting Package. <b>NAWO# 34</b> (24-05-0600)	Deduct	\$	1,845.00
33) Amber Lens Color on Warning Light Package IPO Standard Red Lens (No Siren – PA/Air Horn only). (24-05-0250)		\$	0.00
34) Amber Light Bar Only In Lieu Of Emergency Light Package. <b>NAWO# 32</b> (24-05-1000)	Deduct	\$	1,197.00
35) PA / Electronic Air Horn Only With Connection Point For End User Installed Field Radio. <b>OAWO# 32 or 34</b> (24-08-9700 – 24-08-9100)	Add	\$	511.00
36) California Compliant Upgraded Emergency Light Package. Includes red steady burn to the front in the lightbar, two amber rear flashers and Whelen combo siren/switch control unit with three position slide switch. (24-06-0250 + 24-08-9150)	Add	\$	318.00
37) Center Console with 6 Switch Electrical Panel. <b>OAWO# 2</b> (22-05-6000)	Add	\$	557.00

**Tank Level Gauge Options**

(Base model includes electronic water level gauge on pump panel)

38) Mini-Electronic Water Level Gauge in Driver Compartment (35-00-5400 – 35-00-5000)	Add	\$	84.00
39) Electronic Foam Level Gauge Rear Control Panel Location (35-00-5200)	Add	\$	389.00
40) Electronic Foam Level Gauge Rear Control Panel Location and Mini-Electronic Foam Level Gauge in Driver Compartment (35-00-5200 + 35-00-5500)	Add	\$	473.00

**110 Volt Generator and Outlet Options**

41) Raven 5KW Under-Hood Generator. Breaker Box Located In Curbside Front Compartment With Remote Power Strip. (28-00-1500)	Add	\$	6,739.00
42) Powerball 6KW Under-Hood Generator. Breaker Box Located In Curbside Front Compartment With Remote Power Strip. (28-00-1600) <b>OAWO# 32 Note: Chassis will be equipped with single 135amp alternator, therefore no warning lights are possible with this option.</b>	Add	\$	4,354.00

**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options GSA Contract No. GS-30F-1033D

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43) Two (2) Additional 110 Outlets Mounted Forward On The Body (28-02-8200)	Add	\$	277.00
44) Two (2) Additional 110 Outlets Mounted Aft On The Body (28-02-8000)	Add	\$	277.00
45) One (1) 220 Volt Outlet Mounted Location To Be Determined (28-02-9000)	Add	\$	129.00

**Other Electrical and Air Options**

46) Power Pulse Battery Conditioner with 110 plug-in receptacle (22-02-2600)	Add	\$	259.00
47) Power Pulse Battery Conditioner with Solar Panel (22-02-2800)	Add	\$	195.00
48) Pre-wire chassis for agency installed radio (28-03-0100)	Add	\$	124.00
49) 12V Air Compressor with 3 Gallon Reservoir Tank (28-04-0200)	Add	\$	717.00

**Apparatus Body Options**

50) Pull Out Tray w/ Adjustable Peg Storage & Adjustable Shelf - DS Front Comp (11-92-0450)	Add	\$	647.00
51) Two Adjustable Shelves in DS Front IPO Three (11-92-0300)-(11-92-0400)	Deduct	\$	70.00
52) Two Adjustable Shelves in PS Front IPO Three (11-92-3300)-(11-92-3400)	Deduct	\$	70.00
53) Three Adjustable Shelves in DS Rear IPO Two (11-92-2350)-(11-92-2300)	Add	\$	70.00
54) Pac Trac Tool Mounting System in DS Front Compartment IPO Three Shelves. Includes Wall Mounting Track and Various Adjustable Tool Holders. (11-92-0475)-(11-92-0400)	Add	\$	641.00
55) Pac Trac Tool Mounting System in DS Center Compartment IPO One Shelf. Includes Wall Mounting Track and Various Adjustable Tool Holders. (11-92-1400)-(11-92-1200)	Add	\$	767.00
56) Pac Trac Tool Mounting System in DS Rear Compartment IPO Two Shelves. Includes Wall Mounting Track and Various Adjustable Tool Holders. (11-92-2600)-(11-92-2300)	Add	\$	711.00
57) Pac Trac Tool Mounting System in PS Front Compartment IPO Three Shelves. Includes Wall Mounting Track and Various Adjustable Tool Holders. (11-92-3800)-(11-92-3400)	Add	\$	641.00
58) Pac Trac Tool Mounting System in PS Center Compartment IPO One Shelf. Includes Wall Mounting Track and Various Adjustable Tool Holders. (11-92-5400)-(11-92-4200)	Add	\$	767.00

## GSA NET PRICING – March 1, 2004

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59) Stainless Steel Railing Protection System (3) Sides Rear/ Left/ Right Of The Body Compartment Top Both Sides. Railing Approx. 8" Height. (17-50-9800)	Add	\$	673.00
60) Storage Rack on Top of One Body Side with Open Top. Framed in Aluminum Box with Expanded Metal Sides and Bottom, Black Powder Coated. (17-50-4200)	Add	\$	434.00
61) Pump Area Cover With Hinged Access and 3" Height. Railing & Rear Steps. (17-50-9600)	Add	\$	723.00
62) Captured Roller Guides Mounted Out Board Of Booster Reel On Body Compartment Top Right & Left Side (Pair) (17-50-7000)	Add	\$	626.00
63) Drip Tray and Venting for Fuel in DS Rear Comp (11-92-7000)	Add	\$	212.00
64) Vent System for Fuels / Chain Saws in DS Center & PS Rear (11-92-7100)	Add	\$	250.00
65) Turtle Tile Drain-through Floor Matting (Price per Sq. Ft.) (17-50-8950) Note: This matting is already included in base model compartment floors)	Add	\$	5.00

### Pump Package Options

(Base model includes Waterous E501 high pressure pump)

66) Kubota 18.9 HP Model 722b In Line 3 Cyl. Water Cooled Diesel Engine With Wildfire Pacific BB-4D Pump. (35-02-3000)	Add	\$	748.00
67) Darley 1-1/2 AGE Pump w/ Daihatsu 26.5 HP Diesel and Manual Packing IPOS E501 Pump (35-02-3100) - (35-02-0900)	Add	\$	683.00
68) Mechanical seal for Darley 1-1/2 AGE pump IPO Manual Packing (35-03-3100) <b>OAWO# 67</b>	Add	\$	427.00
69) E-511 Waterous Pump Medium Pressure Pump System Maximum 290 GPM. (35-02-3300)	Add	\$	978.00
70) 120 PSI / 65 CFM Derringer Compressed Air Foam System. Includes 31 Hp Turbo Charged Water Cooled Diesel Engine, 65 CFM Rotary Compressor, FoamPro 1601 Proportioner, Darley 1 ½ Age Pump, Laser Cut Control Panel With A Fully Vented Aluminum Enclosure. (35-02-3600 – 35-02-0900 – 35-10-0600)	Add	\$	28,175.00
71) Wildfire Pacific 18HP Gasoline BB4 Pump IPOS E501 Pump (35-02-2100) - (35-02-0900)	Deduct	\$	6,195.00

### Pump Controls and Valve Options

72) Remote Pump Operating Controls in Cab <b>NAWO# 71</b> (35-02-7000)	Add	\$	540.00
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**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

**NAWO** – Not Available With Option

73) Spray Systems Adjustable Pressure Control / Bypass Valve **NAWO# 70** (35-03-1500) Add \$ 248.00

74) Elkhart Fire Service Valves IPO Akron (35-02-4100) **NAWO# 70** No Charge

**Primer Options**

(Base model includes electric primer)

75) Secondary Hand Primer in Addition to Electric Primer. (35-02-6200) Add \$ 122.00

76) Hand Primer in Place of Electric Primer. (35-02-6300) Deduct \$ 711.00

**Foam System Options**

(Base model includes FoamPro 1601 foam system)

77) Robwen Hydro-Flo Foam System in place of Foam Pro 1601. (35-10-0200 – 35-10-0600) Deduct \$ 1,398.00

78) Robwen 500 B Foam System (5 gallon bladder type) IPO FoamPro 1601. (35-10-0300 – 35-10-0600) Deduct \$ 194.00

79) Robwen 500 B Foam System (5 gallon bladder type) for use without 17gal Foam Cell IPO FoamPro 1601. **OAWO# 100 or 101** (35-10-0350) Deduct \$ 194.00

**Pump Maintenance Options**

80) E-501 / E-511 Pump Engine Filter Kit; Includes (2) Oil Filters, (2) Air Filters, (1) Fuel Filter, (1) Oil Filter Wrench in a Plastic Storage Box Shipped Loose. (35-03-5000) Add \$ 120.00

81) Waterous E-501 Pump Seal Kit. (35-03-5200) Add \$ 226.00

82) Waterous E-501 Pump Seal Kit With Impeller. (35-03-5400) Add \$ 585.00

**Hose Storage and Discharge Options**

83) Additional Aluminum Hose Reel (Two Total – One Each Side). (35-04-0550) Add \$ 2,117.00

84) Two 1-1/2" Discharges at Front of Body (35-04-1900) Add \$ 683.00

85) Aluminum Hose Tray Mounted on Top of Body on Driver Or Passenger Side (Includes Hinged Lid W/ Latch). (17-50-4000) Add \$ 441.00

86) Adjustable Divider for Hose Storage Trays **OAWO# 85 & 89** (17-50-8900) Add \$ 153.00

87) Aluminum Long-Handle Tool & Hose Storage Tray Mounted on Top of Body on Driver Side (Includes Hinged Lid w/ Latches) (17-50-8850) Add \$ 733.00

**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

**NAWO** – Not Available With Option

88) Drip Tray and Vent for Fuel in Alum Tool Storage Comp <b>OAWO# 87</b> (17-50-8870)	Add	\$	85.00
89) Aluminum Hose Tray Side Pack Mounted Driver or Passenger Side with 1-½” Pre-Connect. (35-04-1600)	Add	\$	758.00
90) Aluminum Hose Tray w/ Lid, 1-1/2” Pre-Connect and Two Adjustable Dividers Mounted on Passenger Side (35-04-1700)	Add	\$	1,663.00
91) Truck Protection Line Connection With Valve Located At Rear Hose Box (35-04-1400)	Add	\$	324.00
92) Front Bumper Mounted Road Sprays Right & Left Sides <b>NAWO #4</b> (35-04-0600)	Add	\$	1,754.00
93) 12” Extended Front Bumper with Hose Well and 1-½” Pre-Connect Line <b>NAWO #4 or #7</b> (35-04-08 + 36-02-0800)	Add	\$	2,480.00
94) Clear Water 1 ½” Rear Discharge For Environmentally Sensitive Location Usage (35-04-1800)	Add	\$	324.00

**Hose and Nozzle Storage Options**

95) Two (2) 8 ft Sections Of Hard Suction Hose With Barrel Strainer NPSH Thread To Match Pump System. (34-02-9000)	Add	\$	457.00
96) 200 Ft Of ¾” Standard Booster Reel Redline Installed On Reel. (35-08-0800)	Add	\$	549.00
97) Two Nozzle Cup Holders for Booster Nozzles (35-06-0800)	Add	\$	125.00

**Tank Options**

(Base model includes 280 gallon water tank with 17 gallon foam cell)

98) 200 Gal Tank with 5 Gallon Foam Cell and No Gear Storage Box (35-00-1200 – 35-00-0900 – 35-00-9400)	Deduct	\$	971.00
99) Gear Storage Compartment for 200 Gal Water Tank <b>OAWO# 98</b> (35-00-9400)	Add	\$	797.00
100) 280 Gal Water Tank with No Foam Cell <b>OAWO# 79</b> (35-00-1300) - (35-00-0900)	Deduct	\$	448.00
101) 300 Gal Water Tank with No Foam Cell <b>OAWO# 79</b> (35-00-1400) - (35-00-0900)	Deduct	\$	224.00
102) 300 Gal Water Tank with 17 Gal Foam Cell <b>OAWO# 21,22 or 23 (F550)</b> (35-00-1700) - (35-00-0900)	Add	\$	224.00

**GSA NET PRICING – March 1, 2004**

Model 662 Light Engine and options      GSA Contract No. GS-30F-1033D

Legend: **OAWO** – Only Available With Option

**NAWO** – Not Available With Option

- 103) 330 Gal Water Tank With 17 Gal Foam Cell. It is recommended that this option be selected only for apparatus that will operate in moderate off-road terrain (not severe). Please consult factory for further details. **OAWO# 21,22 or 23 (F550)** (35-00-1750 – 35-00-0900)      Add    \$      855.00
- 104) 400 Gallon Water Tank Capacity With 20 Gallon Foam Cell. It is recommended that this option be selected only for apparatus that will operate in light, flat off-road terrain (not moderate or severe). Please consult factory for more details. **OAWO# 21 (F550 2dr Only)** (35-00-1775 – 35-00-0900 – 35-00-9200)      Add    \$      970.00  
(Does Not Include Integral Rear Hose Storage & Personnel Gear Storage Depth Decreases.)

**Winterization Option**

- 105) Winterize Pump System And Chassis Fluids For Extreme Cold Climate Shipping      Add    \$      349.00  
- Minimum 40 Degree's Below Zero. (35-03-9000)

**APPARATUS DELIVERY SCHEDULE - March 1, 2004**

Model Attack 1 662 Light Engine and options      GSA Contract No. GS-30F-1033D

S&S is committed to providing the completion time for the Attack 1 662 model as stated below. Often these times may improve depending on Ford Super Duty chassis delivery schedules.

<u>Chassis</u>	<u>Transmission</u>	<u>Calendar Days Delivery ARO</u>
1) F-350/450/550	All transmissions	210 Days

Since delivery times are often subject to change, please confirm with S&S prior to order.



# Order Information Form

For Model Attack 1 662 Light Engine as per GSA FSS Contract No. GS-30F-1033D

Must accompany signed agency purchase order for acceptance

**Agency Information:**

Name \_\_\_\_\_

Street \_\_\_\_\_ City, State, ZIP \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Agency POC \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_ FAX (\_\_\_\_) \_\_\_\_\_

Purchase Order No. or Fiscal Cost Code: \_\_\_\_\_

Billing Address (if different):

Name \_\_\_\_\_

Street \_\_\_\_\_ City, State, ZIP \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Contracting/Ordering Officer: \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

Inspection/Delivery Officer: \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

Final Destination Address of Vehicle: \_\_\_\_\_ Phone(\_\_\_\_) \_\_\_\_\_

Street \_\_\_\_\_ City, State, ZIP \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Other Notes and Instructions: \_\_\_\_\_

**Apparatus Order Information:**

Beginning with the Base Model, please list below the desired options. Insert the net price from the authorized GSA price list on the previous pages, putting brackets around deduct items and totaling at the end of the list. Certain options are or are not available with other options as indicated on the price list.

**Base Model 662 Net Price** (Includes Ford F-450 4x4 Chassis Cost) **\$ 84,176.00**

**Options Selected:**

<u>Opt. #</u>	<u>Short Description</u>	
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____

# Order Information Form

**For Model Attack 1 662 Light Engine as per GSA FSS Contract No. GS-30F-1033D**

**Must accompany signed agency purchase order for acceptance**

<u>Opt. #</u>	<u>Short Description</u>	
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
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_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____

**Total Net Price of Base Model and Options Selected** \$ \_\_\_\_\_

Agency Purchase Order must equal total above to be accepted. When purchase order and this form are properly completed and mailed or FAXED to S&S Fire Apparatus Co., orders will be accepted as of the date postmarked or FAXED. Acknowledgement of order will be returned to ordering official along with detail production specification and drawing.

Signature of Official completing this form: \_\_\_\_\_

Printed or Typed Name: \_\_\_\_\_

Title and Date: \_\_\_\_\_

**S&S Fire Apparatus Co.**  
*Attack 1 Products - Limited Warranty*

**Original Purchaser** \_\_\_\_\_ **Truck Type** \_\_\_\_\_

General Warranty

S&S Fire Apparatus Co. (S&S) warrants the fire apparatus manufactured by it to the original purchaser against defects in material and workmanship for a period of one (1) year from the date of delivery to the original purchaser provided the fire apparatus is used in a normal and reasonable manner for fire fighting purposes and subject to the limitations described on back.

Rust and Corrosion Warranty

S&S warrants the fiber composite body manufactured by it against full perforation as a result of rust and corrosion for the life of the apparatus to the original purchaser, provided the apparatus is used in a normal and reasonable manner for fire fighting purposes and subject to the limitations described on back.

Structural Warranty

S&S warrants the fiber composite body and aluminum frame manufactured by it against weld and metal cracking or breaking for a period of ten (10) years from the date of delivery to the original purchaser, provided the apparatus is used in a normal and reasonable manner for fire fighting purposes and subject to the limitations described on back.

**Delivery Date of Apparatus** \_\_\_\_\_ **S&S DO#** \_\_\_\_\_

## Limitations

S&S's obligations under these warranties are strictly limited to repairing or replacing, as S&S may elect, any part or parts of such apparatus which, in S&S's examination, discloses to be defective and covered under the provisions of these warranties. The replacement or repair of any part or parts shall include full labor not to exceed S&S's standard warranty labor rates. Any defective part or parts considered covered by these warranties shall be return freight prepaid to S&S's factory or to such other location as may be approved by S&S. Repaired or replacement parts shall be F.O.B. S&S's factory.

For any item to be covered by these warranties, S&S's maintenance instructions as published at delivery and updated from time to time must be strictly followed.

The following items are specifically excluded from coverage by the provisions of these warranties: 1) Major components and equipment that are warranted by its original manufacturer such as the chassis, engine, transmission, tires, pump, batteries, water tank, etc.; 2) Normal adjustments and maintenance service; 3) Normal wearing parts such as electrical accessories, light bulbs, flashers, valves, seals, etc.; 4) Failures resulting from the apparatus being operated in a manner or for a purpose not recommended by the manufacturer; 5) Any apparatus which shall have been repaired, modified or altered in any way so as, in S&S's judgement, to have adversely affected the unit's stability or reliability; 6) Items subject to misuse, negligence, accident, improper maintenance, or damage due to acids or chemicals; 7) Apparatus used outside of the United States and; 8) Loss of time or use of the apparatus, inconvenience or other incidental expenses.

Nothing contained in these warranties or any supplemental warranties shall make S&S liable beyond the express limitations hereof, for loss, injury or damage of any kind to any person or entity resulting from any defect or failure in the apparatus. No person or affiliated S&S representative is authorized to give any other warranties or to assume any other liability on behalf of the manufacturer in connection with the sale, servicing or repair of any apparatus manufactured by S&S. S&S shall have the right to make design changes or improvements in its product in the future without imposing any obligation upon itself to change or improve any previously manufactured apparatus.

## Claims

All warranty claims must be made in writing directly to S&S Fire Apparatus Co. and approved by S&S prior to any work be performed. Claims which are made after work has already been performed will be denied for payment by S&S. Claims should be mailed or faxed to S&S at 4353 W. 1900 N-48, Fairmount, IN, 46928, FAX 765-948-3370, Attn: Warranty Claims.



## Attack 1 Light Brush 662



### Standard 662 Features

#### Designed To Meet Demand

High Pressure Pump System for Extended Hose Lays

Automatic Foam Proportioning System with Easy Controls

280 Gallons of Water / 17 Gallons of Foam

High Pressure Hose Reel



### Standard 662 Features

#### Corrosion Free Components

- ✓ Fiberglass Composites
- ✓ Aluminum Understructure
- ✓ SS Hardware & Fasteners
- ✓ Custom Designed Poly Tanks
- ✓ Stainless Steel Manifolds
- ✓ Aluminum Hose Reels
- ✓ Powder Coated Steel Parts
- ✓ Visually Appealing
- ✓ Extended Service Life



### Standard 662 Features

#### Fiberglass Composite Body Make Up

- 1) High Performance Max Guard 29 Gelcoat Finish  
Approx. 22-24 Mil Thickness
- 2) Skin Coat = Brown Color Resin Fiberglass Mixture  
70% Resin, 30% Glass Material
- 3) Bed Coat or Wet Coat = White Resin and Fiberglass Layer
- 4) Core Material = Closed Cell PVC Structural Foam  
Blue = 45# Density, Brown = 80# Density, Cormat  
Won't absorb Moisture - Light Weight - Flexible
- 5) Final Coat = White Resin and Fiberglass Layer  
Fire Retardant Resin Thru-out  
Approx 20 % lighter than 1/8" Aluminum  
Approx. 35% lighter than Poly  
Approx. 40% Lighter Than 14 Ga. Steel



### Standard 662 Features

#### Flexibility Counts When the Pavement Turns to Dirt



### Standard 662 Features

#### Body System Flexibility

- ✓ Xtra-Terrain Capability  
Go Where you need  
Extended Off-Road Durability
- ✓ Chassis Stress Relief  
Extended Chassis Service Life
- ✓ Body Stress Relief  
Extended Body Service Life

= Xtra- Durability



### Standard 662 Features

#### Modular Build Concept

- ✓ Increased Reliability
- ✓ Reduced Delivery Time
- ✓ Upgradeable
- ✓ Reduced Maintenance Cost



### Standard 662 Features

#### Light Weight Construction

- ✓ Lower GVWR Requirements  
Lower cost Per Gallon
- ✓ Increased Water/Equipment Capability  
Better Equipped at the Scene
- ✓ Decreased Chassis Download  
Extended Service Life



### Standard 662 Featuresc

#### Weight Example

Standard Model 662  
F-550 4x4 17,500 lbs GVWR  
280/17 Water Foam  
Total Wet Weight  
12,450 lbs



### Other Weight Examples

#### Dallas Fire Department

F-550 4x4 17500 GVWR  
400/20 Water – Foam  
Total Wet Weight  
13,890 #



US Fish & Wild Life  
F350 4x4 12,500 GVWR  
200/5 Water –Foam  
Total Wet Weight  
10,530 #



### Standard 662 Features



34" W x 39" H x 19" D      44" W x 22" H x 19" D      28" W x 39" H x 19" D

Standard 662 Shelving Package Shown

### Standard 662 Features



28" W x 16 1/2" H x 19" D      72" W x 22" H x 19" D      34" W x 39" H x 19" D

Standard 662 Shelving Package Shown

### Standard 662 Features

- ✓ Pultruded Fiberglass Shelves  
Stronger than Steel or Aluminum
- ✓ Fully Adjustable w/ SS Safety Back-up Pin



### Standard 662 Features



Zolotone Spatter Painted Compartment

Aluminum Unistrut Shelf Brackets



Magnetic Door Ajar / Compartment Light Switching

Over Center Door Checks

### Standard 662 Features



Vacuum Molded One Piece Smooth Finish Interior Doors



Removable Fender Panel

### Standard 662 Features



Leading Edges Protected with Aluminum Bright Tread

### Standard 662 Features



Hard Suction Hose Compartment



SS Wheel Well Liner

### Standard 662 Features

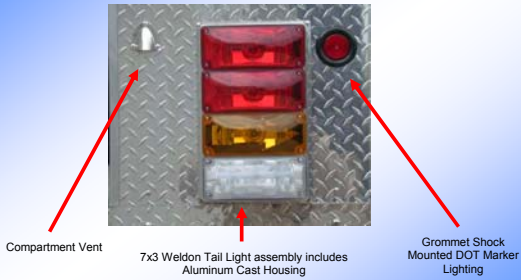


8' wide x 3' H Steel Tube Step Bumper

Aluminum Powder Coated Cab Guard with Light Bar Mounting Platform



### Standard 662 Features



Compartment Vent

7x3 Weldon Tail Light assembly includes Aluminum Cast Housing

Grommet Shock Mounted DOT Marker Lighting

### Standard 662 Features

#### Electrical Junction Box

- ✓ Powder Coated Stainless Steel Construction w/ Hinged Door
- ✓ Relay Controlled Circuitry w/ Diagnostics
- ✓ Imprinted to Function Harnesses
- ✓ Maintenance Friendly



### Standard 662 Features

#### Custom Electrical Systems

- ✓ NFPA Compliant
- ✓ NFPA Load Tested
- ✓ Auto Resetting Circuit Protection
- ✓ Weather Resistant
- ✓ Field Expandable
- ✓ Esthetic & Ergonomically Appealing
- ✓ Maintenance Friendly



### Standard 662 Features



12 Volt Charging Receptacle



Power Indicator Light with Placard



Master Disconnect Switch

### Standard 662 Features

#### Scene Lighting

- ✓ Betts 12 volt 360 Degree Swivel – One on each side



### Standard 662 Features



Lighted Compartments using Fiberglo Strip Lighting



Step Area Lighting





### Standard 662 Features

- E-501 Waterous Pump w/ Briggs/Stratton 26.5 HP Diesel Engine (fuel from chassis tank) 105 Gallon per Minutes (GPM) @ 100 psi; 25 GPM @ 450 psi

- Stainless Steel Pump Control Panel

- Foam Pro 1601 Foam System – Easy on Switch w/ Adjustable Foam % from 0 to 1%

- Water Tank Level Gauge

- Electric Primer is Standard - Shown w/ Optional Manual Hand Primer

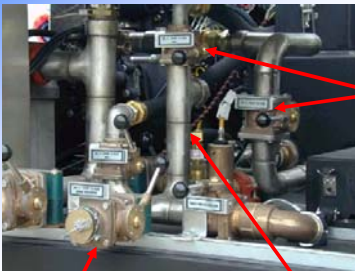


### Standard 662 Features

Oil less Electric Primer



### Standard 662 Features



Typical Valve Placards

Akron Fire Service Valves  
Elkhart Option

Typical Stainless Steel Manifold System

### Standard 662 Features

Noshok Compound Gauge with Freeze Protection



Spray Systems Strainer



IC Control Water level Indicator with Upgrade Dash Indicator



### Standard 662 Features

Manual Emergency Priming Port




### Standard 662 Features

Spare Tire & Storage Compartment Underneath Pump Deck




### Standard 662 Under Chassis Shielding

- ✓ Steering Stabilizer Shield  
Shields Stabilizer Shock
- ✓ Transfer Case Impact Protection  
Reduces Trapped Brush



### Standard 662 Under Chassis Shielding

- ✓ Lower Radiator Shield  
Protects from Damage & Blockage
- ✓ Sway Bar Support Shield Strengthens & Protects




### Standard & Optional 662 Features

- ✓ Standard Duty Brush Guard w/ Flush Lighting & Siren
- ✓ Optional Heavy Duty Front Bumper
- ✓ Optional Heavy Duty Front Bumper w/ 12000 lb Electric Winch



### Optional 662 Features

- Aluminum Hose Tray w/ Lid and 1-1/2" Preconnect



### Optional 662 Features


- ✓ Equipment Basket
- ✓ Railings



### Optional 662 Features

#### Auxiliary 110 Volt Power Options

- ✓ Raven 5kw Systems. Engine belt driven – no need for additional engine to power the generator



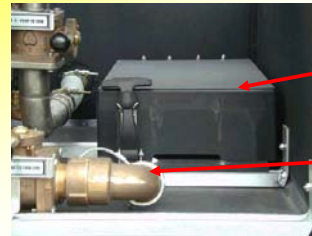
### Optional 662 Features

✓ Twin Hose Reels



✓ Pump Walk-Over Platform

### Optional 662 Features



Truck Protection Storage Compartment  
50Ft. Capacity 1 1/2" Line

Truck Protection Pre- Connect Swivel

### Optional 662 Features

Compressed Air Foam System – Odin Derringer



### Optional 662 Features



Pump Engine Filter Kit

### Repair / Damage

#### Body Damage

Remains Isolated to Impact Area

Fire Retardant Resin  
With Stand Temperatures of 1000 Degree's & Not Support a Flame

Field Repairable by Most Body Shops  
Readily Available Parts



By



For More Information Contact S&S at 800-451-7180, Sales Dept. Ext. 316  
Web: [www.ssfire.com](http://www.ssfire.com)  
E-Mail: [info@ssfire.com](mailto:info@ssfire.com)  
Corporate Address: 4353 W. 1900 N-48, Fairmount, IN, USA 46928

