



SPARTAN TOOL

FOR TOUGH CUSTOMERS. SINCE 1943.



SERVICE MANUAL

Soldier

Diagrams Published in 2018 Service Manual

Spartan Tool LLC | 1618 Terminal Road | Niles, MI 49120
order by phone **800.435.3866** order online **SpartanTool.com**

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Part #7584F000



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Warnings



- Read the safety and operating instructions before using any Spartan Tool product. Drain and sewer cleaning can be dangerous if proper procedures are not followed and appropriate safety gear is not utilized. Read the engine owners' manual for instructions and safety precautions on engine operation.
- Gasoline is extremely flammable and is explosive under certain conditions.
 - Refuel in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
 - Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- Before starting unit, be sure to wear personal protective equipment such as safety goggles or face shield and protective clothing such as gloves, coveralls or raincoat, rubber boots with metatarsal guards, and hearing protection.
- Carbon monoxide exhaust and/or gasoline fumes from this equipment can create a hazardous atmosphere in confined spaces (which may include, but are not limited to, manholes and septic tanks), closed garages or other areas which may not be properly ventilated. In particular, excess gasoline fumes can create an explosion hazard. Such hazardous atmospheres can cause death or severe injury. Do not operate this equipment with its cart (used to house the engine and gasoline tank) located in any confined space or area with inadequate ventilation. Operate this equipment only when the cart is located outdoors or in an open, well-ventilated area.
- Ensure the jet hose has been placed in the pipe a minimum of 6 feet before engaging the water pressure to prevent the hose from coming out of the pipe prematurely and causing injury.
- Always shut off the water pressure before pulling the hose out of the pipe. Mark the hose a minimum of 6 feet from the end to help ensure the hose is not accidentally pulled out of the pipe while still under pressure. Shut off the water pressure when the hose mark is encountered.
- Never point the wash gun at anyone while operating the unit. Injury may result.
- Drains and sewer can carry bacteria and other infectious micro-organisms or materials which can cause death or severe illness. Avoid exposing eyes, nose, mouth, ears, hands, and cuts and abrasions to waste water or other potentially infectious materials during drain and sewer cleaning operations. To further help protect against exposure to infectious materials, wash hands, arms and other areas of the body, as needed, with hot, soapy water and, if necessary, flush mucous membranes with water. Also, disinfect potentially contaminated equipment by washing such surfaces with a hot soapy wash using a strong detergent.
- For any questions, contact Spartan Tool at the address shown below.



CAUTION: Portions of the system can still be under pressure even if the unit is not operating.

CONTACT US

Spartan Tool LLC
1618 Terminal Rod
Niles, MI 49120
800.435.3866
SpartanTool.com

CALIFORNIA PROP. 65

This product may contain an extremely small amount of lead in the coating. Lead is a material known to the State of California to cause cancer or reproductive toxicity.



Technical Information

GENERAL

- Pipe Sizes: up to 12" diameter
- Max Water Pressure: 3,000 psi
- Max Water Flow: 12 GPM
- Water Capacity: 200 gallons

TRAILER

- Gross Vehicle Weight Rating (GVWR): 3500 lbs (1589 kg)
- Gross Axle Weight Rating (GAWR): 3300 lbs (1498 kg)
- Hitch: 2" Ball Type (Class II) (Optional Pintle Ring)
- Tires: ST 205-75-R14 (Max Load: 1760 lbs each)
- Cold Inflation Pressure: 50 PSI / 350 kPa (each)
- Rim (diameter x width x capacity): 14" x 5.5" x 1865 lbs (each)
- Maximum Recommended Towing Speed: 55 mph

ENGINE

- Model: ECH749 (Kohler Command PRO EFI)
- Cylinders: 2 (26.5 Horsepower)
- Bore & Stroke: 3.3" x 2.7"
- Displacement: 45.5 cu. in.
- Fuel: Gasoline, Unleaded 87 Octane Minimum
- Fuel Tank Capacity: 8.0 gal
- Cooling: Air
- Oil Capacity: 2.0 US qt (SAE 10W-30 oil)
- Alternator: 20 Amp
- Electric: 12 VDC
- Spark Plug: NGK BPR2ES (0.030" gap)

REWIND

- 12V Electric Motor with Variable Speed Controller

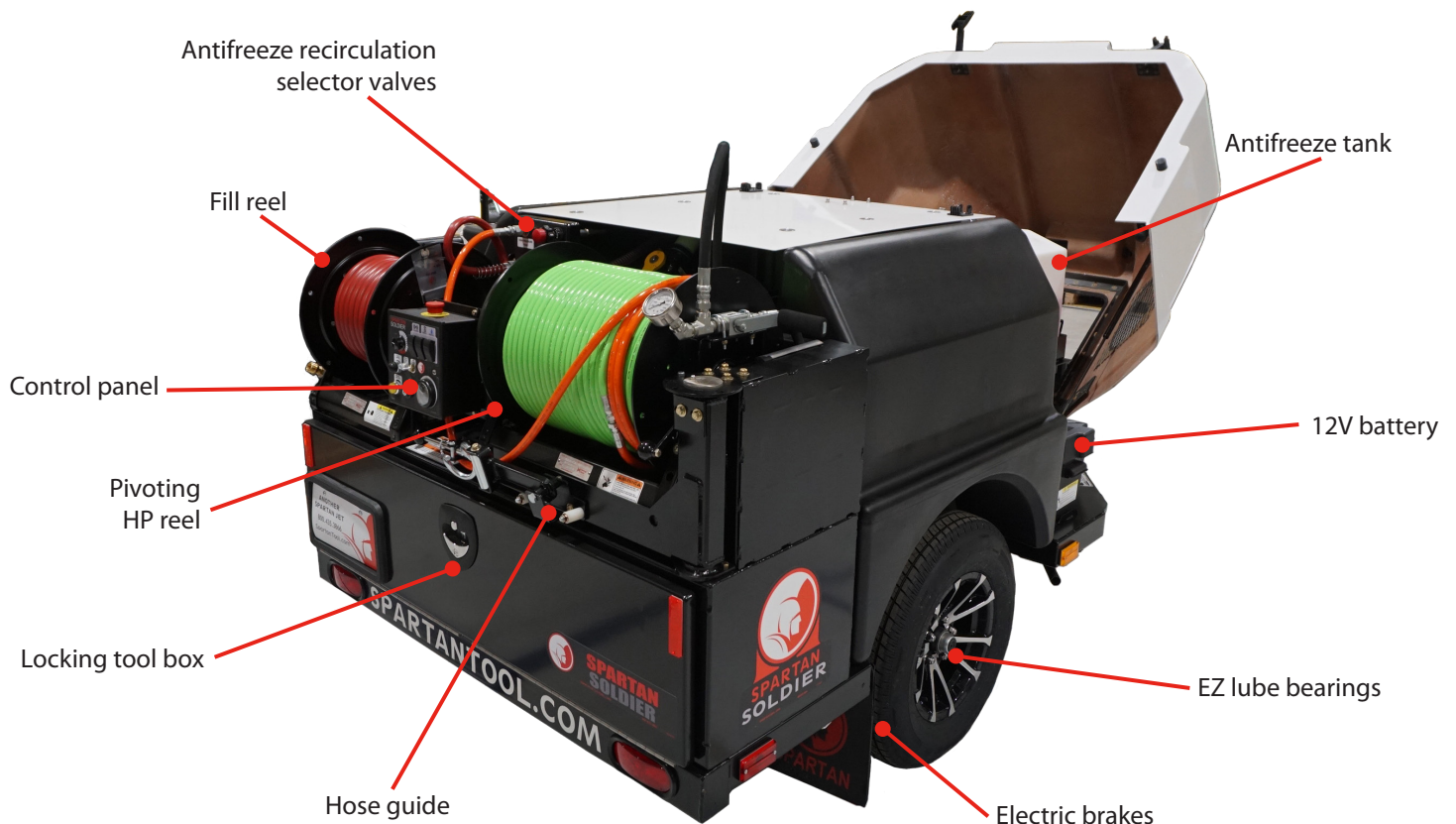
FEATURES

- Torsion single-axle suspension with electric brakes
- Noise-reducing engine shroud protects the unit while in tow
- Pressure can be continuously adjusted with accessible handwheel
- Electronic controlled pump pulsation for maximum cleaning distance
- Manhole hose protection
- 3/8" x 350' of Maxflow HP hose
- 5/8" x 100' of supply hose
- Pivoting and swiveling 180° hose reel, hydraulically operated with freewheel system
- Single-valve full-system winterization with antifreeze recirculation
- Rear mounted operator controls with an electric powered variable-speed hose rewind

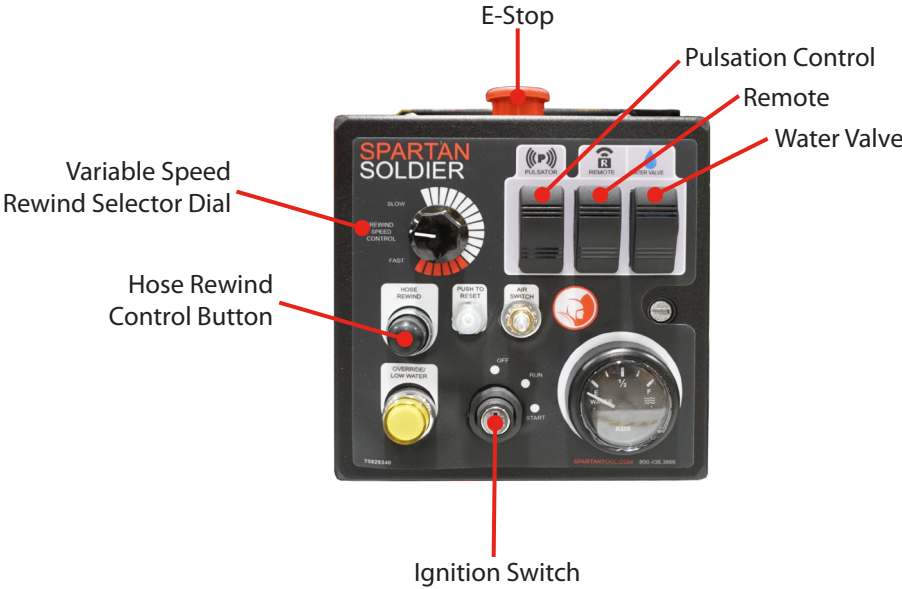
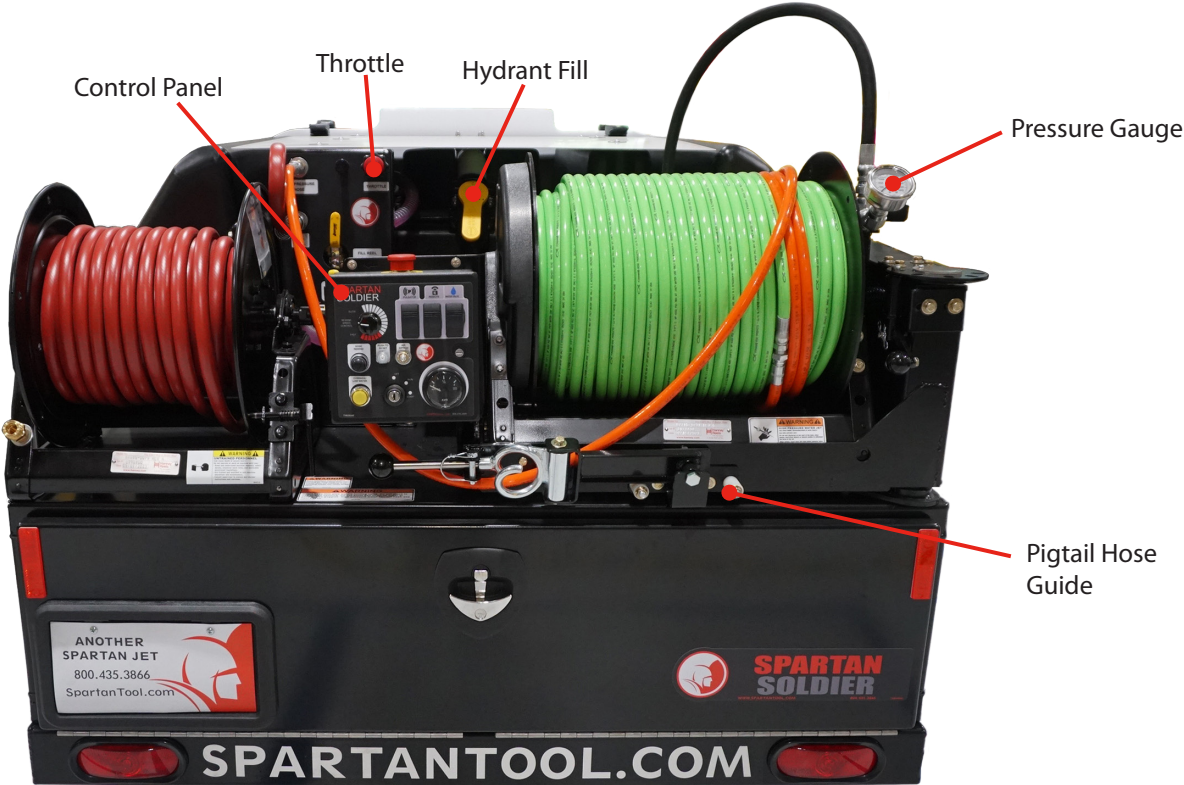
SAFETY

- 12" nozzle anti-turn device
- Automatic engine shutdown protection for high water temperature, engine temperature, low engine oil, or low engine coolant

Machine Overview



Soldier Jet Assembly - 75840800



How To Use Parts & Accessories



Spartan Tool will supply all parts or accessories you require as quickly as possible. In order to do so, we must have information from you, including machine serial number and part numbers.

Please record the VIN number of your machine in the space provided below:

Spartan Soldier

Vin No. _____

To order parts, look through the pictures until you find the part you require or an indication of where the part should be. Using the item number from the picture, go to that number on the adjacent page and check the description to determine if it is the part you desire.

Using the part numbers, please contact your Spartan Territory Manager or the factory in Niles, Michigan or online at www.spartantool.com.

Thank You.

Spartan Tool LLC
1618 Terminal Rod
Niles, MI 49120
800.435.3866
SpartanTool.com

Special Note



Though much of your Soldier Jet is user serviceable, trained professional mechanics may be needed with pump, plumbing, engine, lights, hitch and axle experience.

- Engine repair is best performed by your local engine repairman.
- Contact Spartan Tool or consult the Pump Repair Manual for all pump repair or troubleshooting.
- All plumbing repairs should use Spartan parts. The high pressure plumbing has been designed for pressures greater than 3000 psi. Substituting parts is dangerous and voids Spartan warranties. Use standard pipe sealing compound or "Teflon"® tape to seal all joints except swivel joints and hose nozzles (o-rings, seals, and tapered seat designs do not require sealing materials).



Soldier Hoses

Item	Part Number	Description	Qty.
1	73808600	Hose, High Pressure 3/8" x 250' (75840000)	1
1	73808603	Hose, High Pressure 3/8" x 350' (75840035)	1
2	73821500	Hose, Leader 3/8" x 15' Orange	1
3	73837800	Plug, 3/8 Black Plastic (Not Shown)	5
4	75815400	Decal, Spartan	2
5	75840800	Assembly, Final Soldier	1
6	75866200	Decal, Soldier Tire & Load	1
7	75866500	Assy., 3/8 Anti-Turn Around	1
8	79952300	Decal, Wheel & Lug Nuts	1
9	79952400	Decal, Safety Chain	1
10	79952700	Decal NATM Compliance	1
11	79966600	Anti-Freeze (Pro Glycol)	1



Soldier Jet Assembly - 75840800

Item	Part Number	Description	Qty.
1	00113500	Screw, Hex Cap 1/4-20 x 1/2	2
2	00113600	Screw, Hex Cap 1/4-20 x 5/8	12
3	00113700	Screw, Hex Cap 1/4-20 x 3/4	58
4	00113901	Screw, Hex Cap 1/4-20 x 1	12
5	00115100	Screw, Hex Cap 5/16-18 x 1"	4
6	00116000	Screw, Hex Cap 3/8-16 x 1/2"	2
7	00137300	Nut, Hex 1/4-20 Znc Plt	4
8	00162600	Washer, Flat 5/16 USS	12
9	00162700	Washer, Flat 3/8	18
10	00165300	Washer, Lock Split #10	1
11	00165400	Washer, Lock Split 1/4	74
12	00165800	Washer, Lock Split 3/8	6
13	02821200	Nut, Nylock Jam 1/4-20	4
14	02823800	Screw, Machine 10-32 x 1/2	1

Item	Part Number	Description	Qty.
15	02825100	Washer, Flat 1/4 USS	57
16	02827400	Screw, Sckt Hd #10-32 x 7/8	1
17	02939000	Screw, Cap Hex 5/16-18 x 3/4	13
18	03366300	Washer, Flat 3/8 SAE	8
19	03850100	Nut, Hex Kep 10-32 Zinc	5
20	04723100	Screw, Machine 10-32 x 5/8"	5
21	04728200	Screw, Hex Hd 1/4-20 x 1-1/2	11
23	44298500	Jetter License Plate Insert	1
24	521012-04	Screw, Hex Hd 1/4-20 x 1-1/2	2
25	538002-02	Cable Tie - 8" Black	20
27	58543101	Decal, Warning	1
28	58546301	Decal, Battery	1
29	61018000	Fuse Holder	1
30	63002500	Bumper, 1" OD x 1/2" Bkck	1

Soldier Jet Assembly - 75840800

Item	Part Number	Description	Qty.
31	63002800	Screw, Sck Cap 1/4-20 x 1	4
32	71131000	Screw, Sck Cap 3/8-16 x 1	1
33	73803300	Coupler, Tongue 2-1/2"	1
34	73815300	Cable, Negative Battery 60"	1
35	73817300	Wash Down Accessory Pack	1
36	73821200	Nut, Nylon Locking 1/4-20	20
37	73826900	Washer, Flat 1/2 USS HS	6
38	73829700	U-Bolt, Square 2" x 2-5/8"	4
39	73830100	Screw, Flt Hd 1/4-20 x 1-1/2	2
40	73830200	Bearing, Flanged Bronze 7/8	2
41	73831000	U-Bolt, 3" Tube OD w/Nuts	1
42	73831200	Clamp, Hose 1-1/16 - 2" #24	6
43	73832400	Screw, Hex Hd 3/8-16 x 4-3/4	11
44	73833500	Pipe, Flexible Exhaust	18"
46	74021800	Assy., Hose Holster	1
48	74027000	Assy., Com Fill Reel	1
49	75800800	Nozzle, Closed 3000 PSI	1
50	75800900	Nozzle, Open 3000 PSI	1
51	75803100	Clamp, Muffler 1-1/4"	3
52	75808500	Cable, Positive Battery	1
53	75810100	Lock, Reel	1
54	75814700	Strap, Battery Hold Down	1
55	75815100	Decal, Gasoline Only	2
56	75815301	Box, Battery (Modified)	1
57	75840100	Weldment, 758 Frame	1
58	75840200	Axle	1
59	75840300	Wheel, 175/80 R13	2
60	75840330	Cap, EZ Lube	1
61	75840591	Rubber Bumper, 1/4"-20	6
62	75841000	Fiberglass Shell, w/ Hrdw	1
63	75841010	Vinyl Edge Trim Black	8
64	75841300	Assy., Soldier Power Pak	1
65	75841500	Muffler - Soldier	1
66	75841600	Assy., 200 Gal Watertank	1

Item	Part Number	Description	Qty.
67	75841861	Screw, 3/8-16 x 3/4 Flat Sckt	2
68	75842420	Cap, Anti-Freeze Tank	1
69	75842900	Shoulder Bolt, 1/2" x 1-1/2"	2
70	75843500	Soldier Strainer Assy.	1
71	75843600	Plate, Strainer Assy. Mntng	1
72	75843900	Weldment, Tank Support	2
73	75844000	Weldment, Tank Deck Sprt	2
74	75844100	Weldment, Antifrze/Gas Tnk	1
75	75844200	Tube, Tank Support	2
76	75844300	Grill, 758 Enclosure	1
77	75844700	Soldier Mudflap, Modified	2
78	75845400	Plate, Watertank Cover	1
79	75845500	Latch, Paddle Medium	1
80	75845700	Caster, Jack	1
81	75846500	Weldment, Upper Grill Sprt	1
82	75847100	Assy., 8.25 Gal Antifrze Tnk	1
84	75849800	Hose, 1/2" HP Pump to Reel	1 Ft.
85	75850500	Plate, Mud Flap	2
86	75851100	Weldment, Nozzle Holder	1
87	75851600	Plate, Reel Upper Spprt	2
88	75852030	Screw, 1/4-20 x 1/2 HD Zinc Pl	6
89	75852050	Washer, Fender 1/4 x 1.5	6
90	75852200	U-Bolt, 1-1/2" ID Zn Pltd	1
91	75852500	Washer, 2" x 2" x .25" Blck	10
92	75852600	Washer, Square 9/16" ID	4
93	75852700	Washer, 3/8" ID USS Grd 9	58
94	75853000	Hex Hd Bolt 3/8" ID USS Grd 8	6
95	75853010	Hex Hd Bolt 1/2-13 x 6 Grd 8	2
96	75853700	Gas Strut, Soldier	2
97	75853710	10mm Gas Strut Mntng	4
98	75853730	10mm Threaded Ball	4
99	75854000	Rear Toolbox Decal	2
100	75854010	Decal, Jack Caster	1
101	75854020	Decal, Soldier Front Fbgls	2

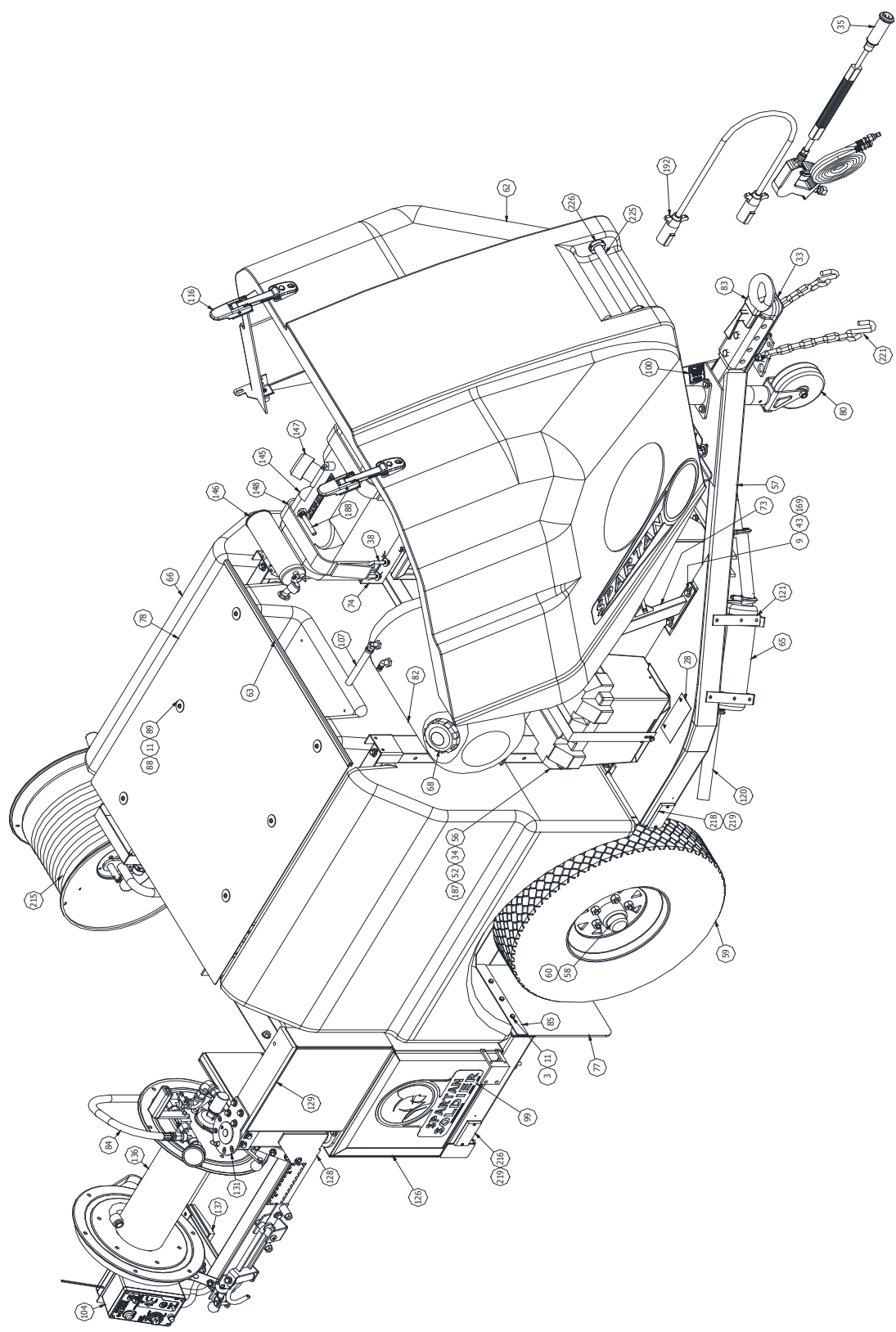
Soldier Jet Assembly - 75840800

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
102	75854030	Decal, Soldier Rear	1	136	75870000	Assy., HP Reel - 2010 Soldier	1
103	75854100	Trailer Brake & Light Harness	1	137	75870200	Block, Rest Position Spprt	2
104	75855000	Subpanel Assembly, Sold	1	138	75870300	Angle, Block Pos HP Reel	1
105	75857400	Conduit-Flex 1/2"	12 ft.	139	75870400	Angle, Reel Transit Support	1
106	75859000	Recirc Hose, Panel w/ Tank	1	140	75870500	Angle, Reel Latch 2010	1
107	75859010	Recirc Hose, Panel w/ Tank	2	142	75871000	Assy., Recirc/Throttle 2014	1
108	75859020	Recirc Hose, Fill Reel	1	143	75871100	Screw, Shoulder 1/2 D x 2-1/4	1
109	75859030	Recirc Hose, HP Out to Fill	1	144	75871500	Assy., Hose Guide 2010	1
110	75859100	1-1/4" Hose, Clnt Tnk - Strnr	1	145	75871600	Tank, 8 Gal Gasoline	1
111	75859110	1-1/4" Hose, 200G Tank - Strnr	1	146	75871610	Canister Charcoal	1
112	75859120	1-1/4" Hose, HP Pump - Strnr	1	147	75871630	Cap, Gasoline tank	1
113	75860000	Clamp, Vinyl coated 7/8" ID	14	148	75871800	Strap, 8 Gal Gas Tank	2
114	75860300	Screw, 10-24 x 1/2 Sock Cap	12	149	75872000	Assy., Latch 90° Low Index	1
115	75860320	Screw 8-32 x .313 SS Sck Cap	4	150	75880600	Bracket, Soldier Remote Box	1
116	75860900	Soldier Enclosure Aero	3	151	75881300	Bracket, Water Valve - Soldier	1
117	75860900	Soldier Enclosure Aero	1	152	77705101	Elbow, 90° Street 1/2 Stl	2
118	75861310	Plate, Front Side Cover	1	153	77722100	Frame, Lighted License	1
119	75861350	Engine Cover Weldment	1	154	77724000	Bushing, Pipe 1/2" x 3/8"	1
120	75861760	Extension, Exhaust 11"	1	155	77726800	Chain, #5 Double Loop .062"	30"
121	75862100	Muffler Hanger Soldier	2	156	77728900	Cap, Cable #5704 Red	1
122	75862700	Angle, 1/8 x 3 x 1/4 Top Lock	1	157	77733300	Terminal, Ring 5/16"	8
123	75862710	Angle, 1/8 x 3 x 1/4 Bottom Lck	1	158	77736900	Clamp, Hose 1-9/1 - 2-1/2 #32	6
124	75865000	Bolt, 5/16-18 x 2 1/2" Hex Hd	2	159	77738100	Screw, Cap Hex Hd 3/8-16 x 1	2
125	75866000	Decal, Mstr Sheet - Soldier	1	160	77738300	Screw, Cap Hex Hd 3/8-16 x 3/4	8
126	75868100	Toolbox Weldment, Soldier	1	161	77739800	Decal, Caution (Read Manual)	1
127	75868210	Door Weldment, Toolbox	1	162	77739900	Decal, Warning (Insert Hose)	1
128	75868400	HP Frame Wldmnt - Soldier	1	163	77742400	Nylock Lock Nut 10-24	6
129	75868500	HP Reel Main Support - 2010	1	164	77743400	Washer, Lock Split 5/16	6
130	75868600	Rear Upright Wldmnt - 2010	2	165	77744800	Nut, 1/2-13 Stover Lock	2
131	75868650	Plate, Index - HP Reel 2010	1	166	77745800	Screw, Hex Hd 1/2-13 x 1-1/4	2
132	75868700	Weldment, Reel Pivot Pin	1	167	77746000	Clamp, Hose 7/32 - 5/8 S.S.	3
133	75868810	Assembly, Recirc Fittings	1	168	77747800	Nut, Hex 5/16-18	12
134	75869300	Circuit Breaker 40 Amp	1	169	77748000	Nut, Stover Lock 3/6-16 UNC	10
135	75869310	Boot, Circuit Breaker Red	1	170	77748100	Screw, Thread Cut 1/4-30 x 3/4	2

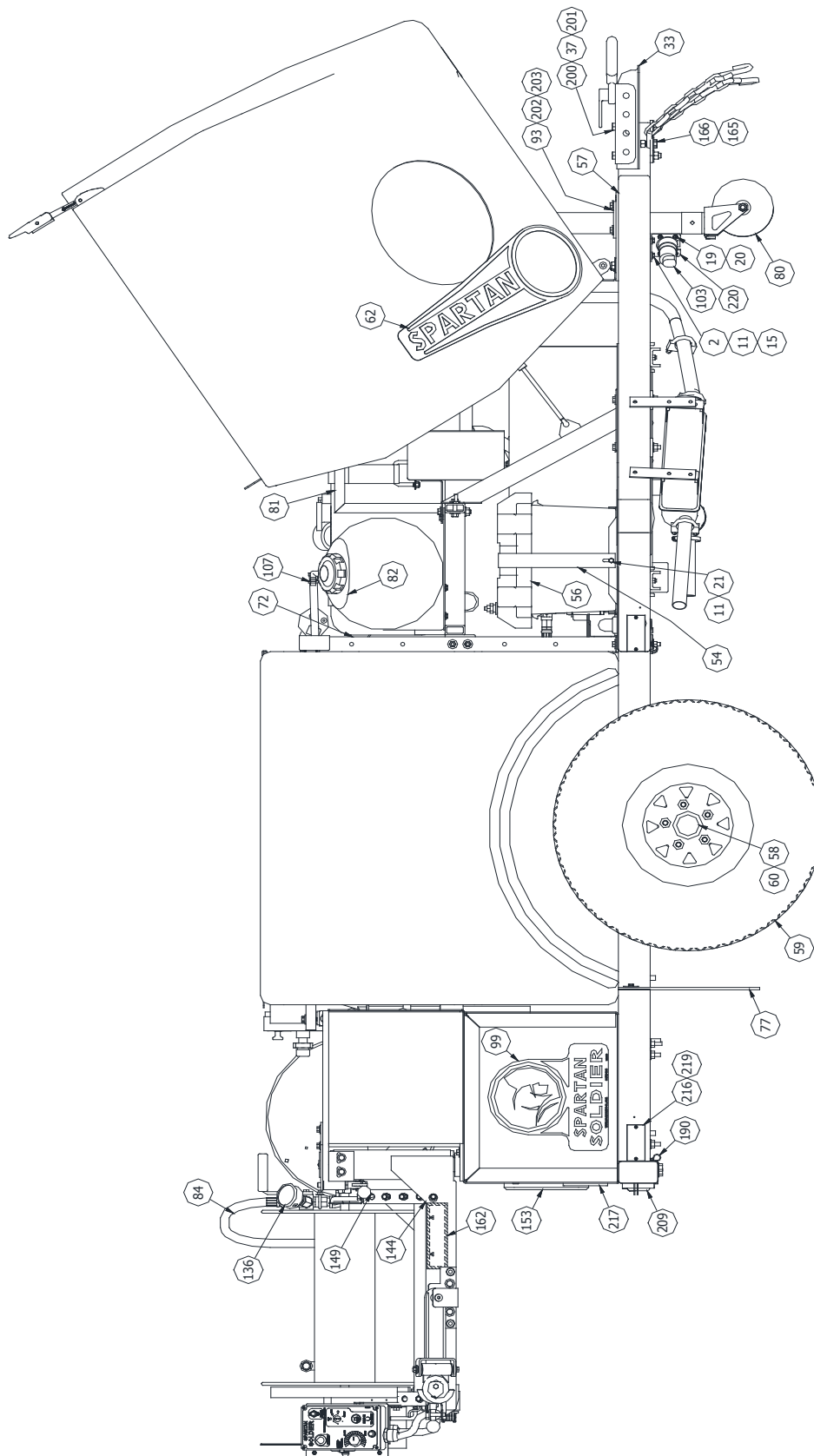
Soldier Jet Assembly - 75840800

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
171	77749400	Tubing, Heat Shrink	30"	205	79920153	Hex Hd Bolt 3/8-16 x 4-1/2 Grd 8	12
172	77751600	Disconnect, Fmle Bullet Style	12	206	79920159	Screw, Phil Flat Hd 1/4-20 x 1 S.S.	2
173	77751700	Disconnect, Male Bullet Style	12	207	79920161	Washer, Flat 5/8 Grd 8	8
174	77755000	Washer, Robo 3/8"	4	208	79920243	Weldment, Clutch Brkt	1
175	77759900	Screw, Cap Hex Hd 3/8-16 x 1-1/4	1	209	79920720	Breaklight, Oval Lamp	2
176	77763500	Decal, Crank Handle	1	210	79922570	Ball Joint End	2
177	77766300	Label, Danger "No Smoking"	1	211	79942210	Edge Grip, Rubber Seal 3/16	3
178	77767600	Clamp, Hose 11/16 - 1-1/4	2	212	79942600	Washer, Flat SAE 1/2" - .074	12
179	77770800	Nipple, Hex 1/2" x 1/2"	1	213	79942700	Nut, Hex Jam 1/2-20	4
180	77785200	Mount, Motor	4	214	79943100	Washer, 17/32 ID x 2 OD	4
181	77785900	Hose, Push Lock 3/4	3 ft.	215	79944100	Hose, Garden 5/8 x 100'	1
182	77814100	Connector, 12 GA Butt	3	216	79945815	Light, Side Marker Red	2
183	79827300	Assy., Hand Crank	1	217	79945830	Reflector, Red	2
184	79827900	Tubing, Heat Shrink 1.1" : 3/8"	4	218	79945855	Light, Side Marker Amber	2
185	79838700	Hex Hd Bolt 1/2-13 x 1-1/2 Grd 8	2	219	79945860	Screw, 8-32 x 1-1/4 Flt Hd Znc	8
186	79838800	Nut, Flanged Hex 5/16-18	2	220	79947640	Bracket, 7 Pin Recepticle	1
187	79847800	Battery, Diesel 875 CCA	1	221	79960000	Chain, Safety	2
188	79849800	Hose, Fuel 5/16" ID	3	222	79960500	Jack, Stand Large Jet	1
189	79858100	Screw, Hex Hd Cap 3/8-16 x 1-3/4	7	223	79962310	Clamp, Insulated 1-1/4" ID	1
190	79860000	Clamp, Vinyl Coated 5/8" ID	17	224	79966310	Pin, Locking 3/8" Dia - 1-3/8"	1
191	79865200	Screw, Sheet Metal #6 x 5/8"	2	225	75840560	Tube, Handle	1
192	79900600	Assembly, 7 Pole Quick 6'	1	226	75840561	Collar, 2 Piece	1
193	79904200	Breakaway Kit, w/Charger	1	227	75845510	Keys, Soldier Tool Box (set of 2)	1
194	79904483	Hose, 1/2" Push-On 300PSI	1	228	75855500	Wrap, Exhaust Insulating	12 ft
195	79907900	Plate, Breakaway Battery Box	1	229	73833500	Pipe, Flexible Exhaust	5 ft
196	79908100	Screw, Hex Hd 1/4-20 x 3	2				
197	79908200	Washer, Flat 1/4 SAE	2				
198	79909900	Screw, Sck Hd 3/8-16 x 1-3/4	2				
199	79910900	Screw, Flat Hd 10-32 x 7/16"	2				
200	79920140	Hex Hd Bolt 1/2-13 x 4-1/2 Grd 8	6				
201	79920141	Nut, Hex Grd 8 1/2-13 Stover	9				
202	79920150	Hex Hd Bolt 3/8-16 x 1-1/2 Grd 8	3				
203	79920151	Hex Nut, 3/8-16 Grd 8	28				
204	79920152	Screw, 3/8-16 x 3 Hx Grd 8	2				

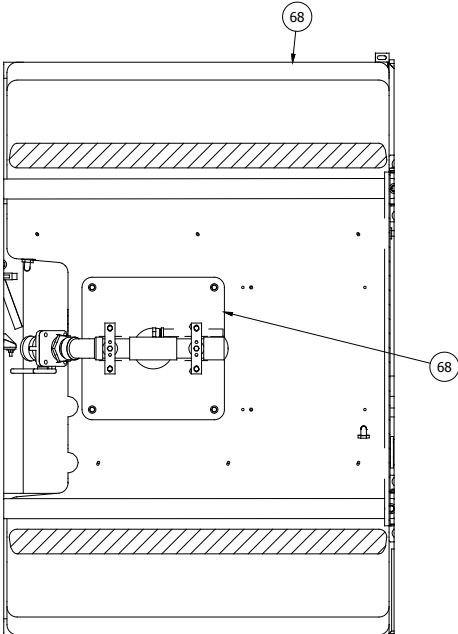
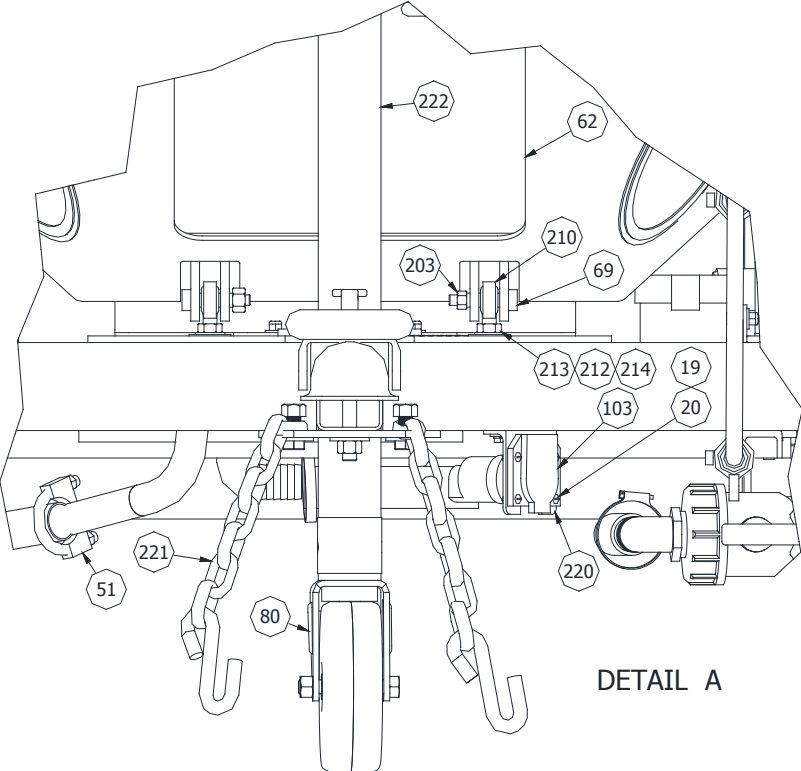
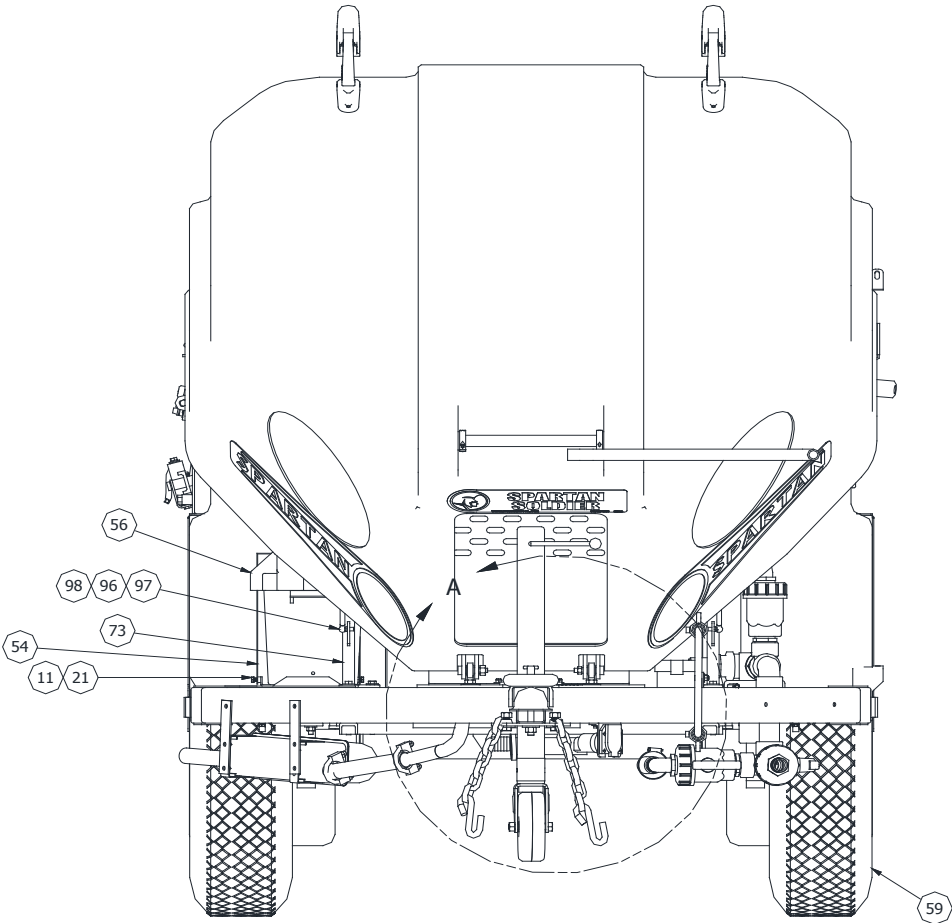
Soldier Jet Assembly - 75840800



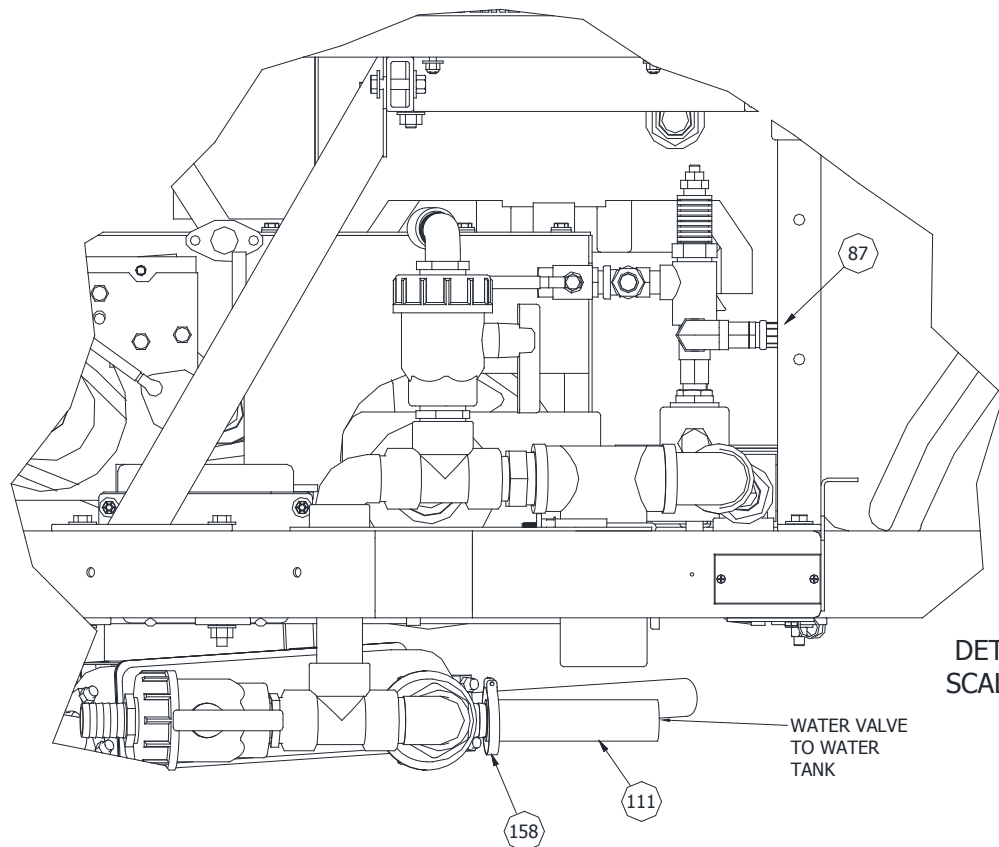
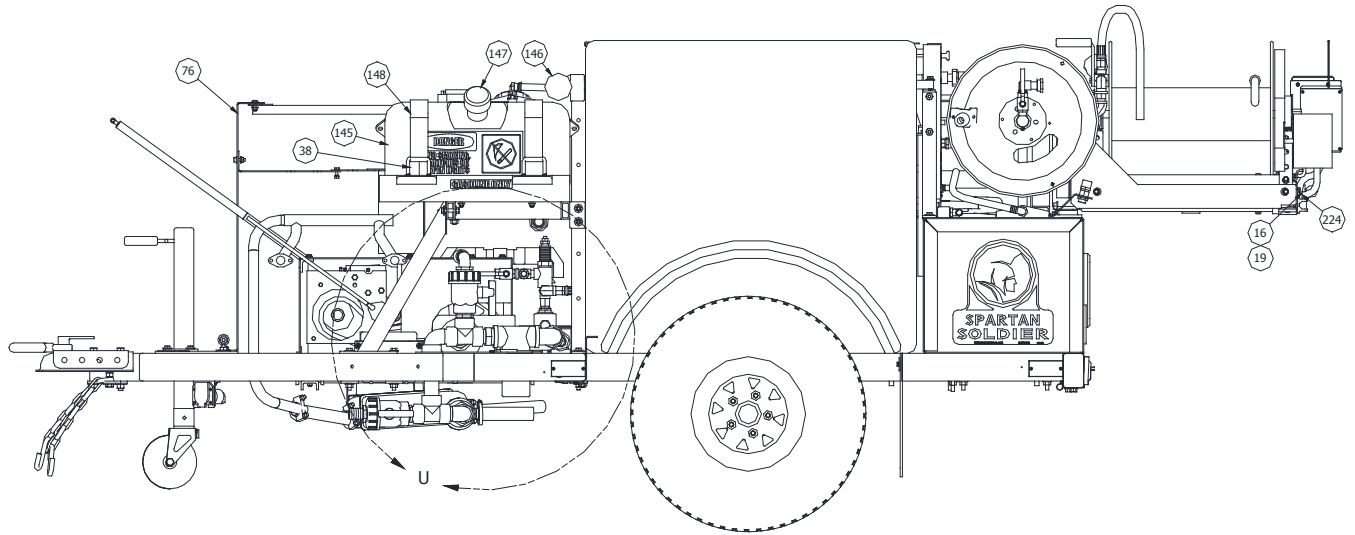
Soldier Jet Assembly - 75840800



Soldier Jet Assembly - 75840800

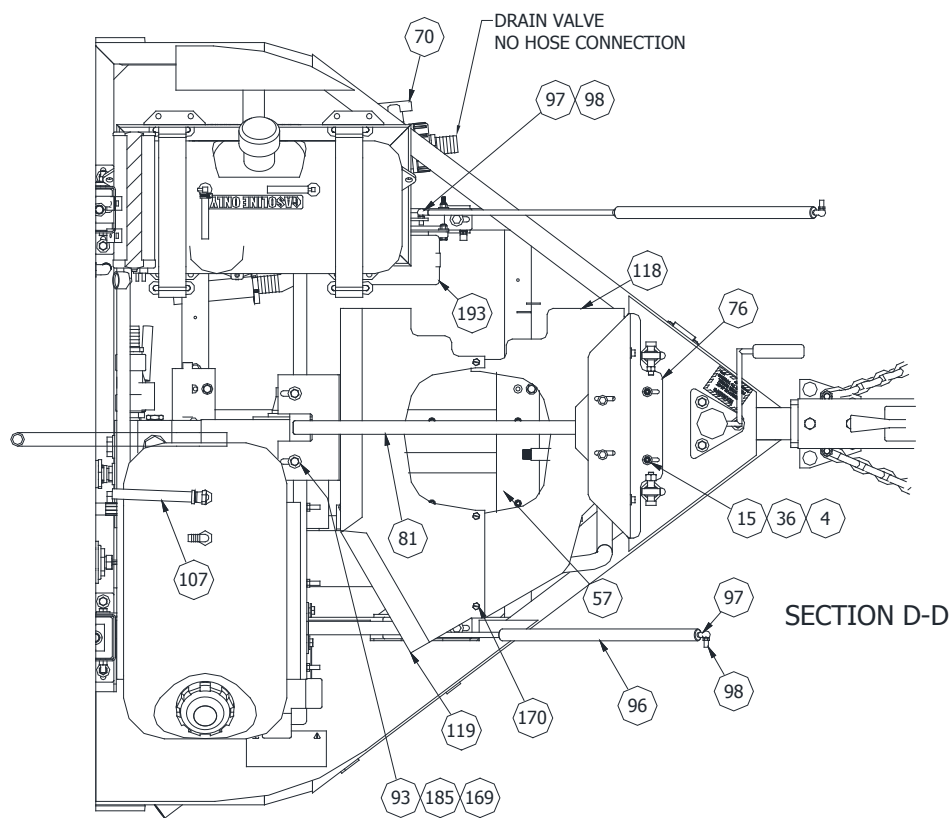
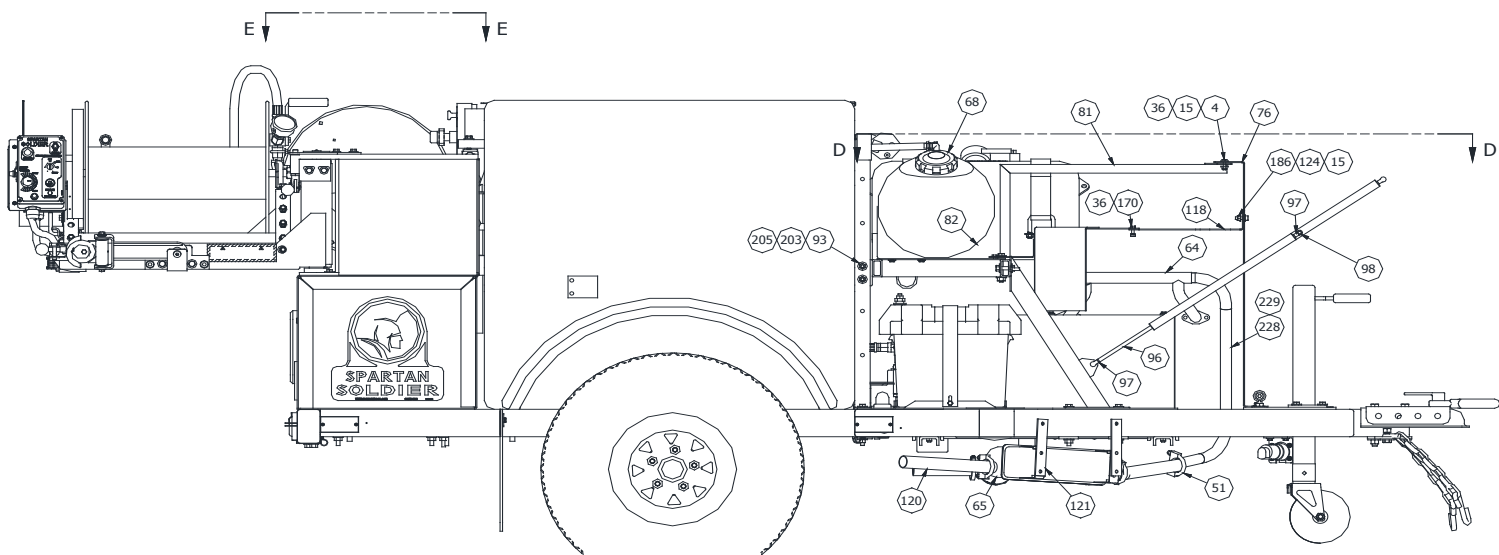


Soldier Jet Assembly - 75840800

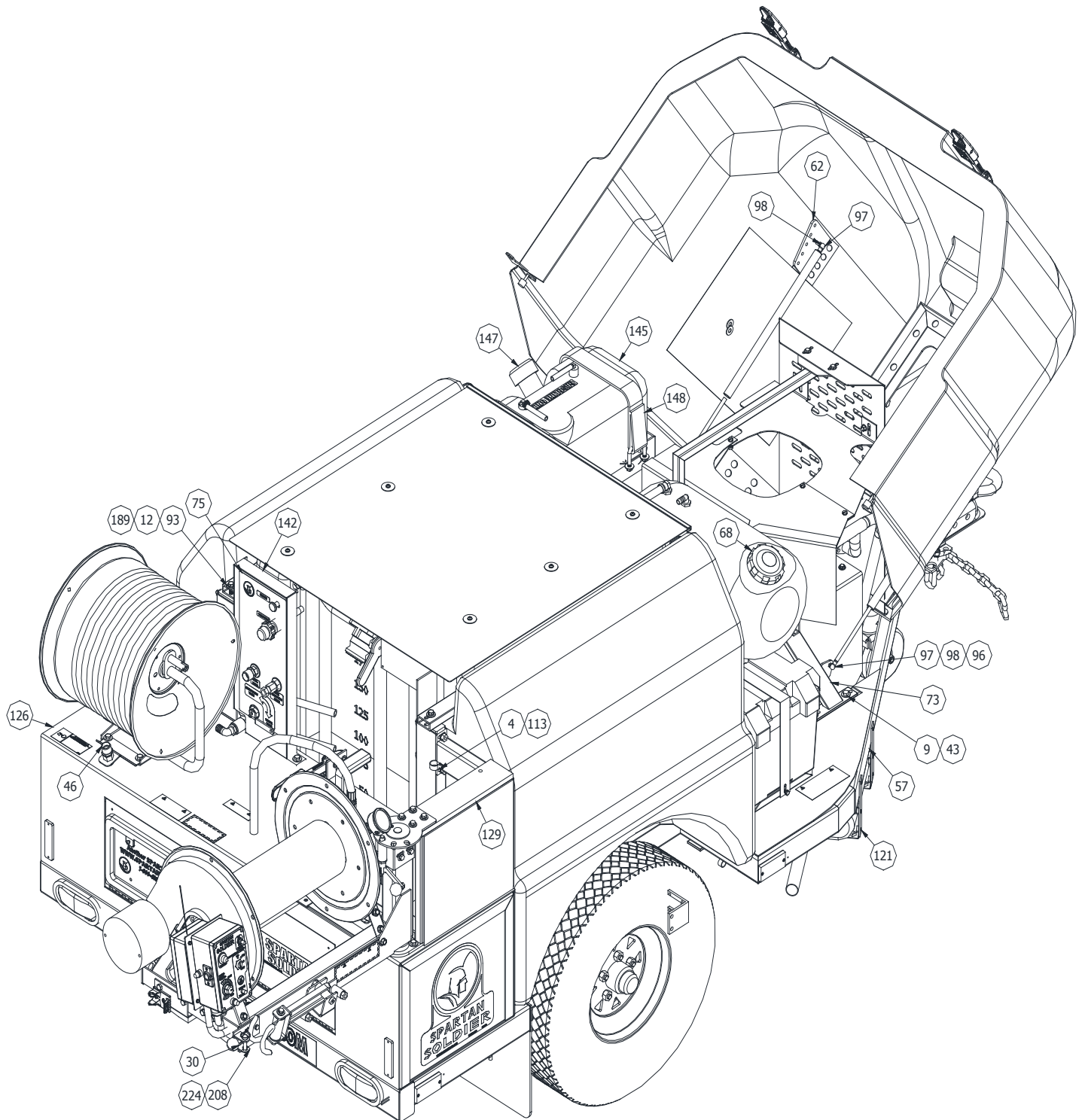


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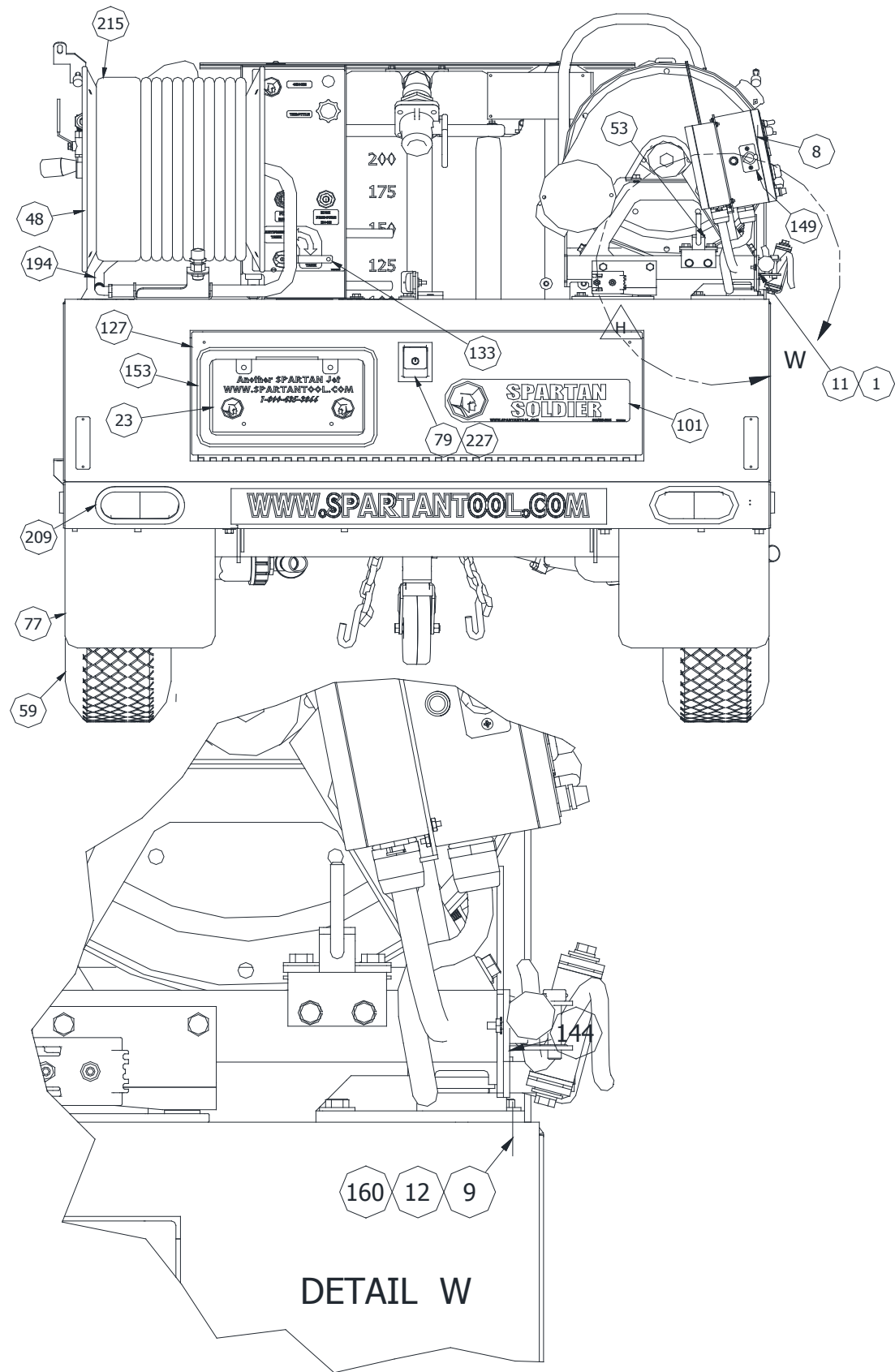
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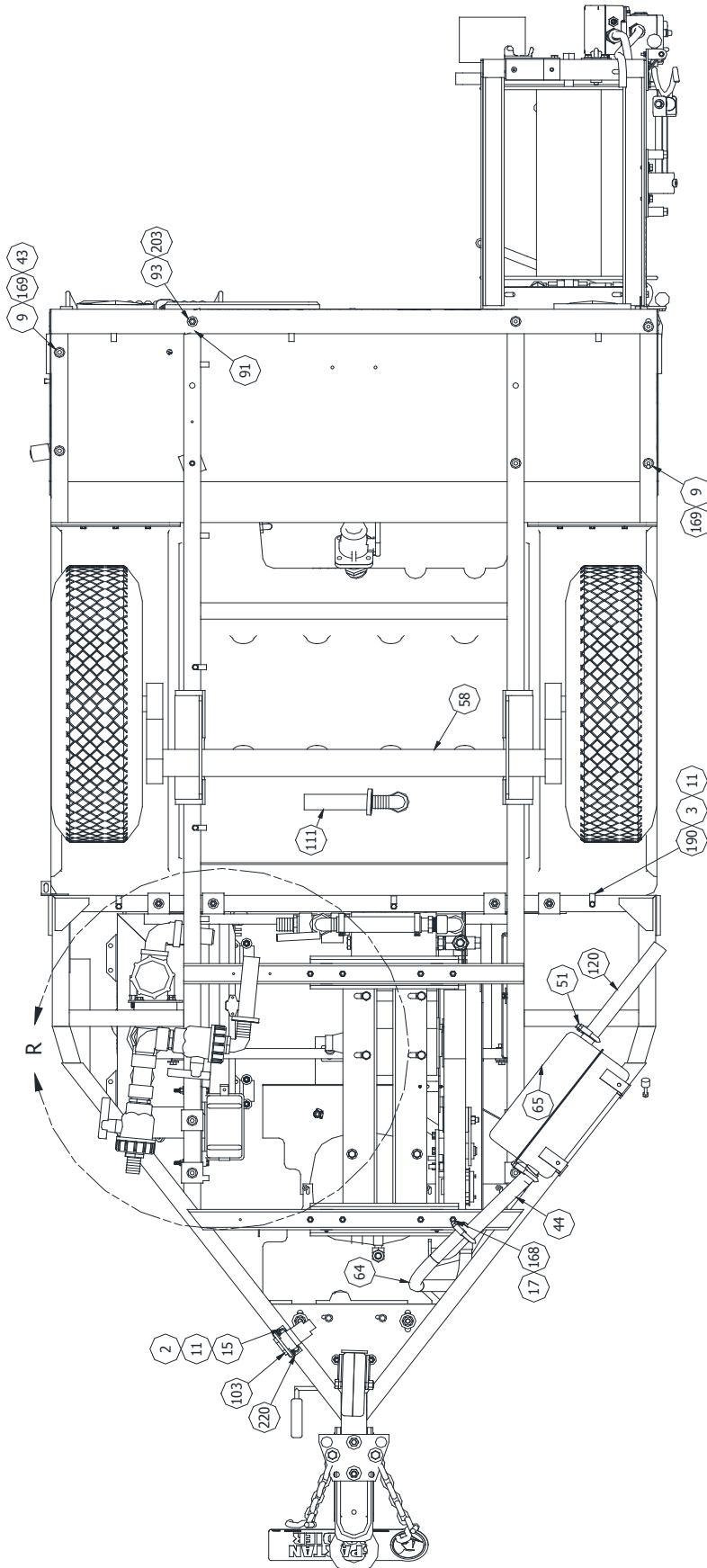
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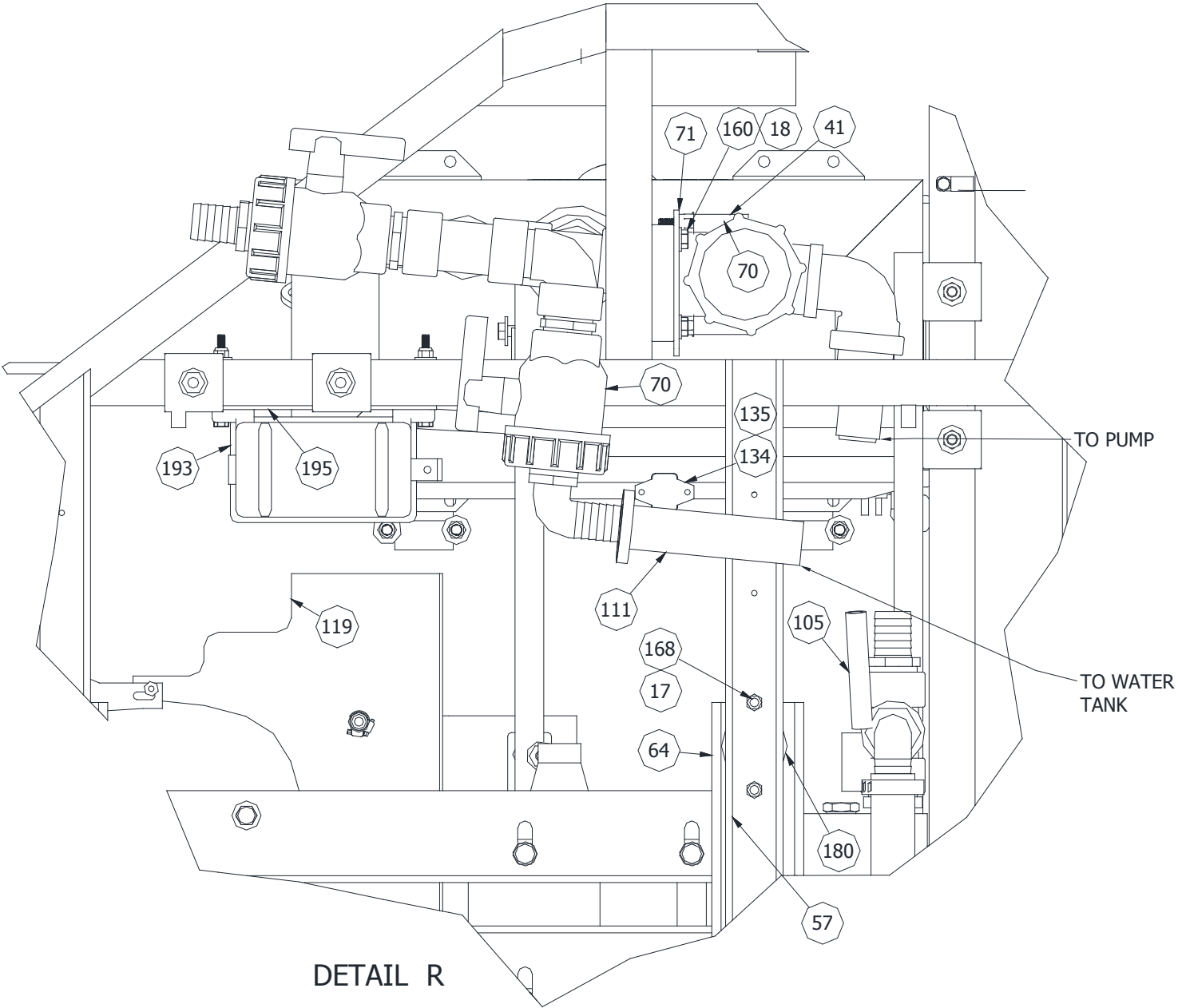
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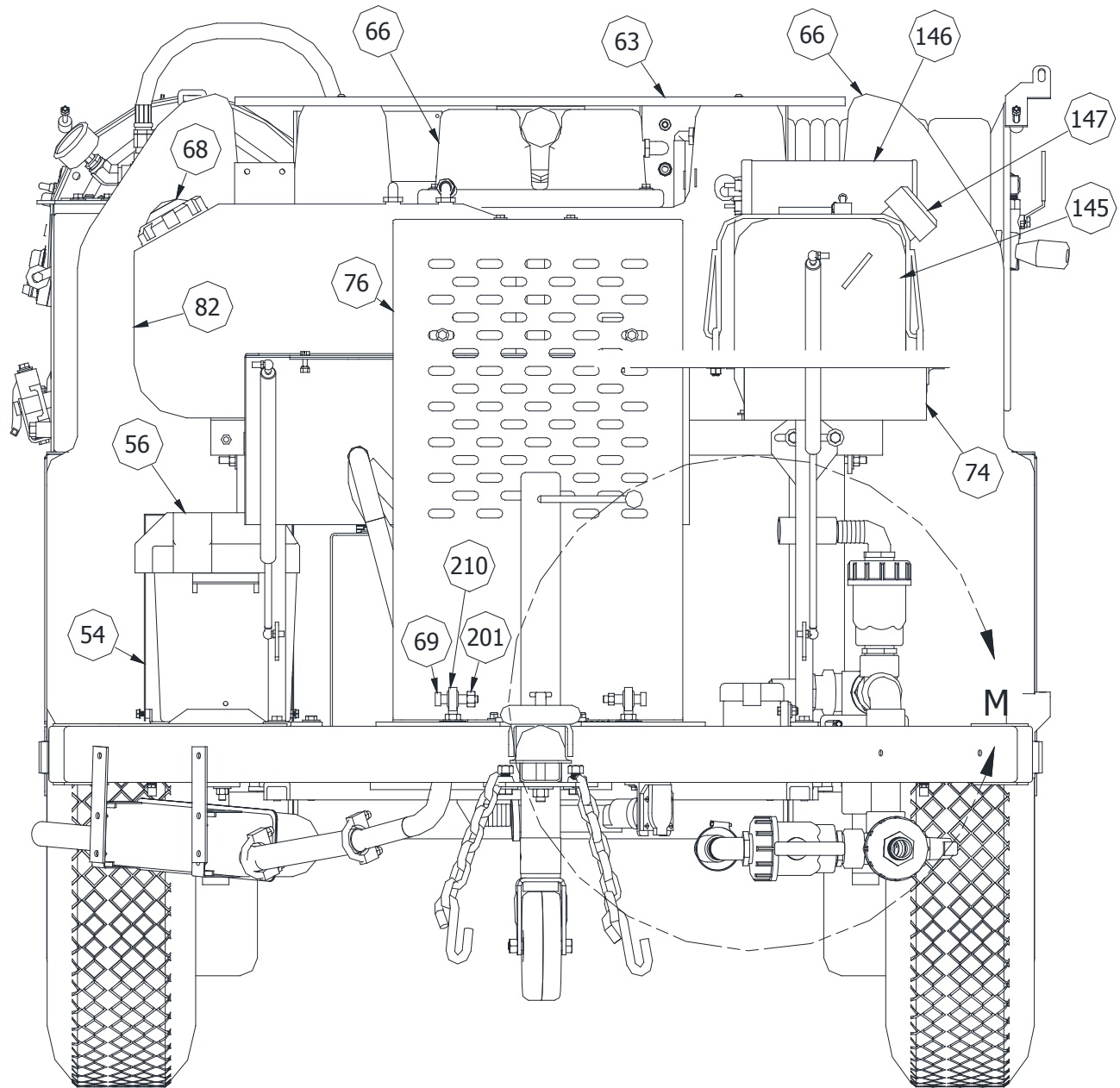
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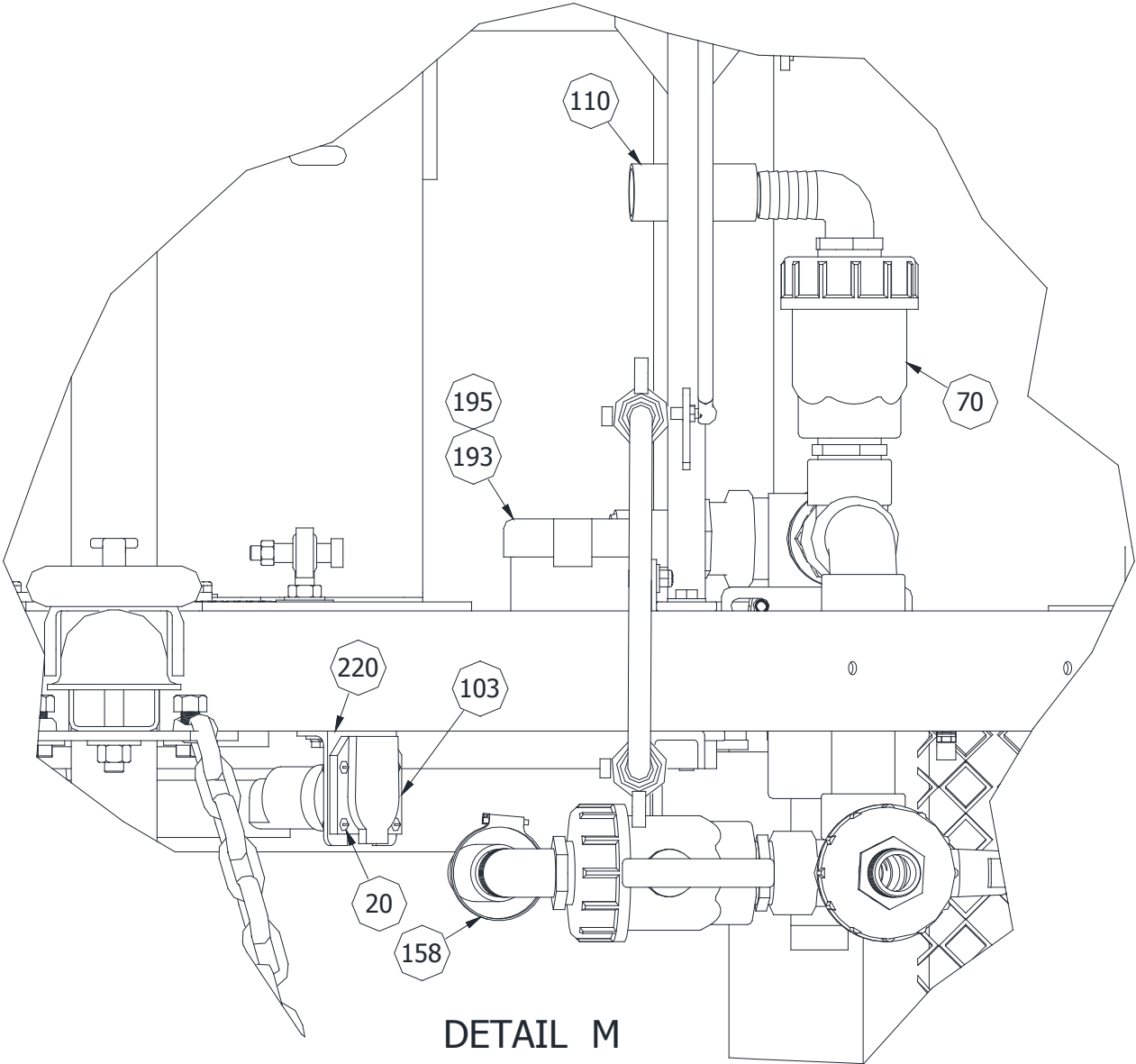
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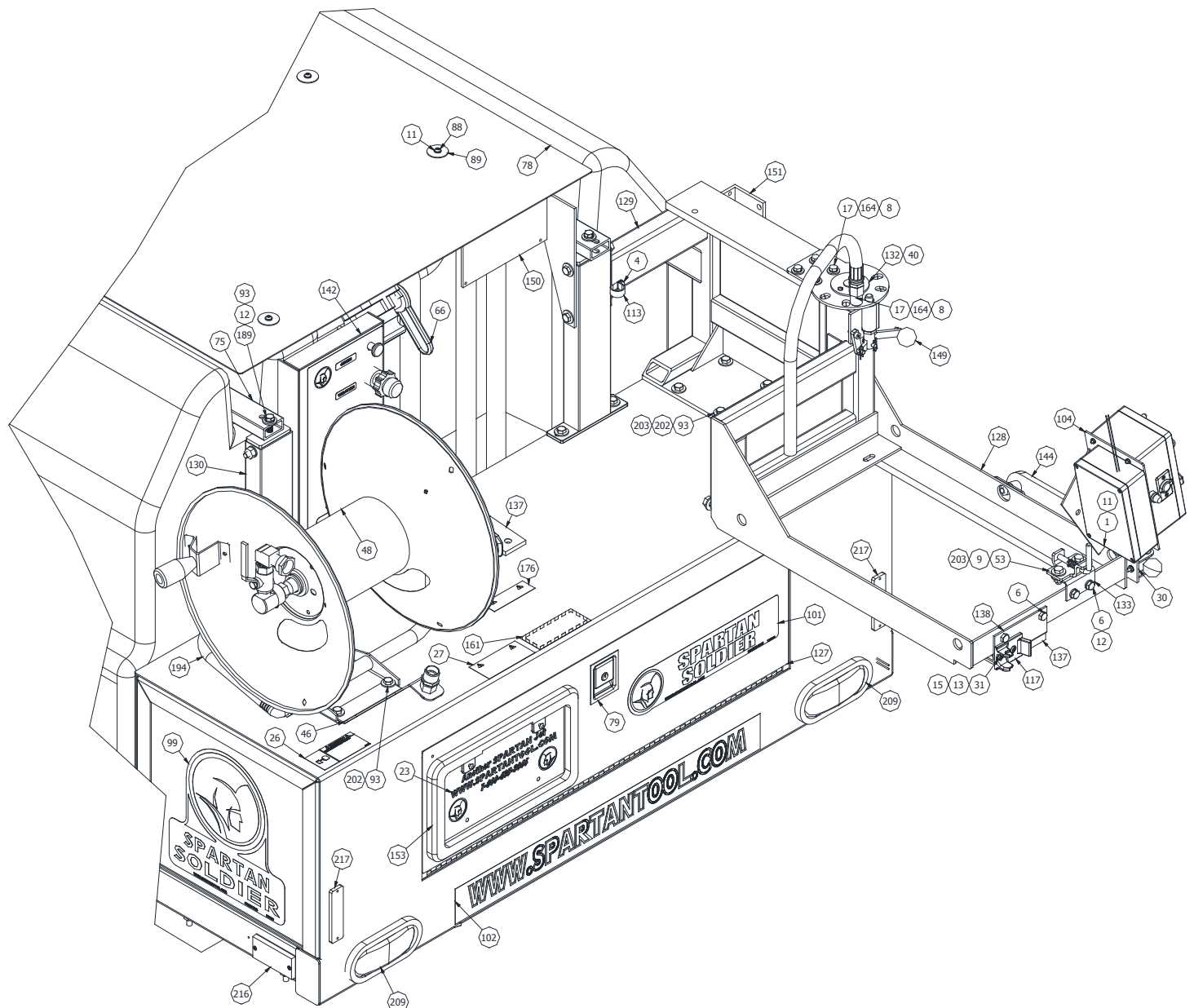
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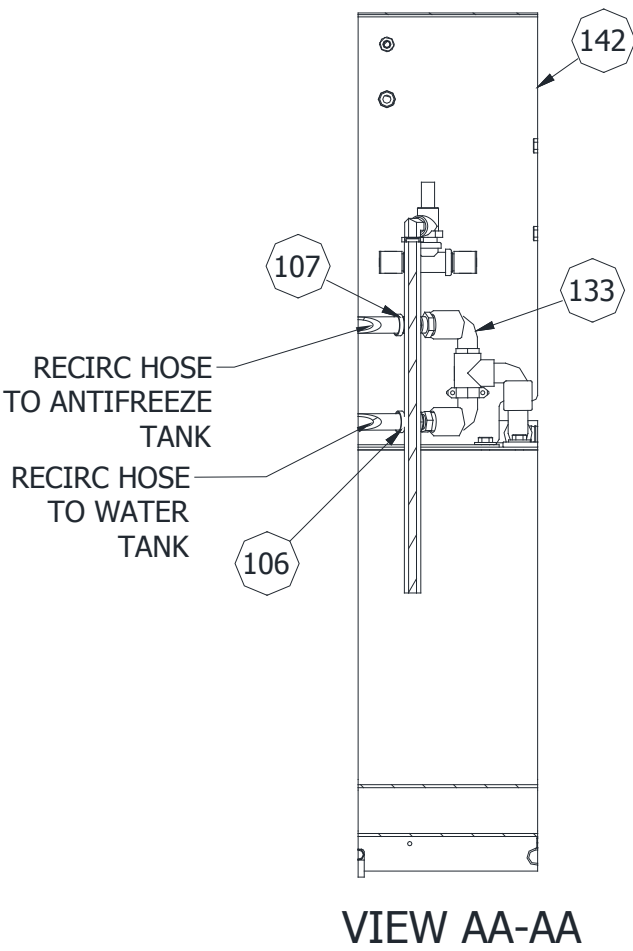
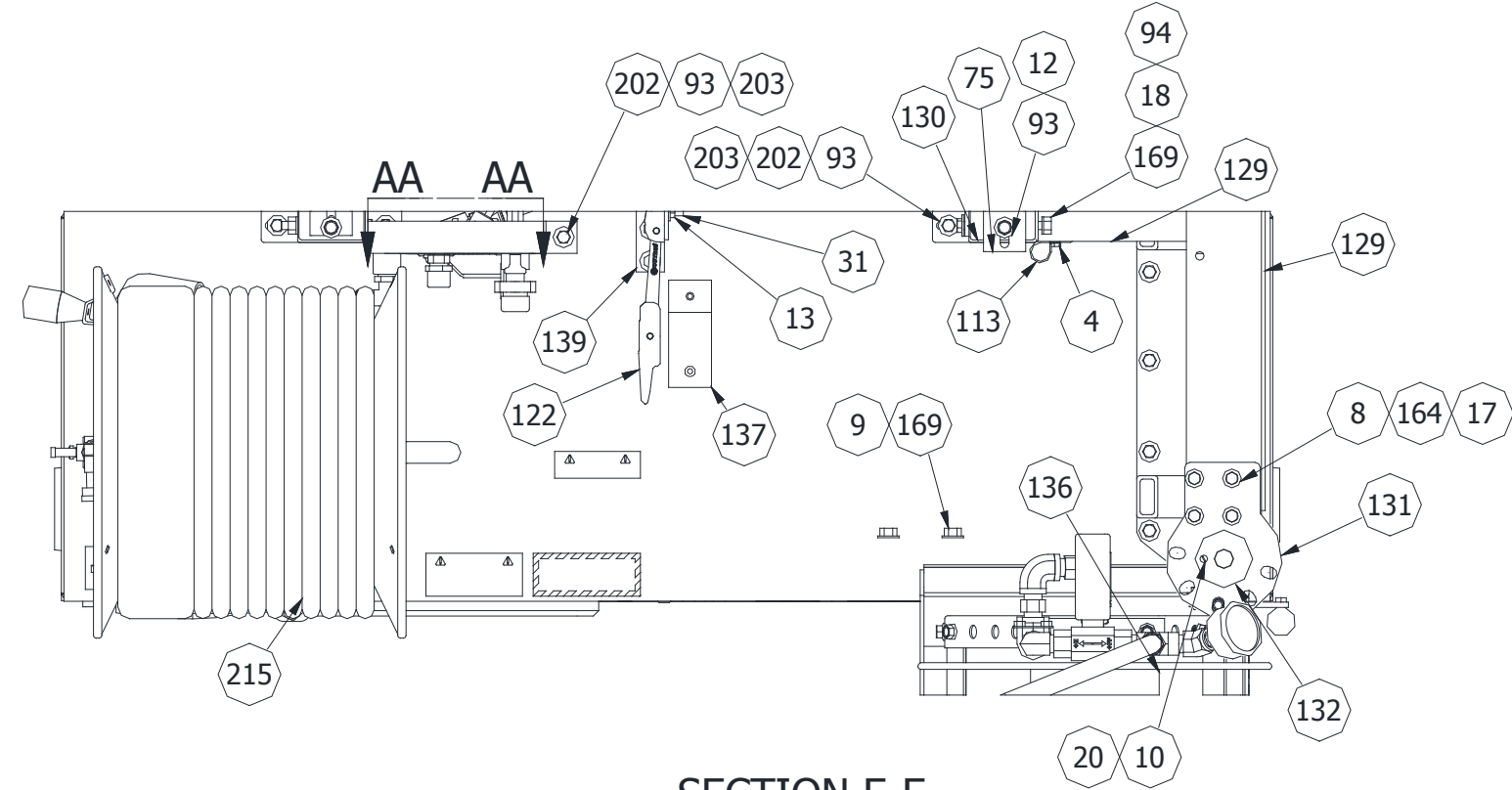
Soldier Jet Assembly - 75840800



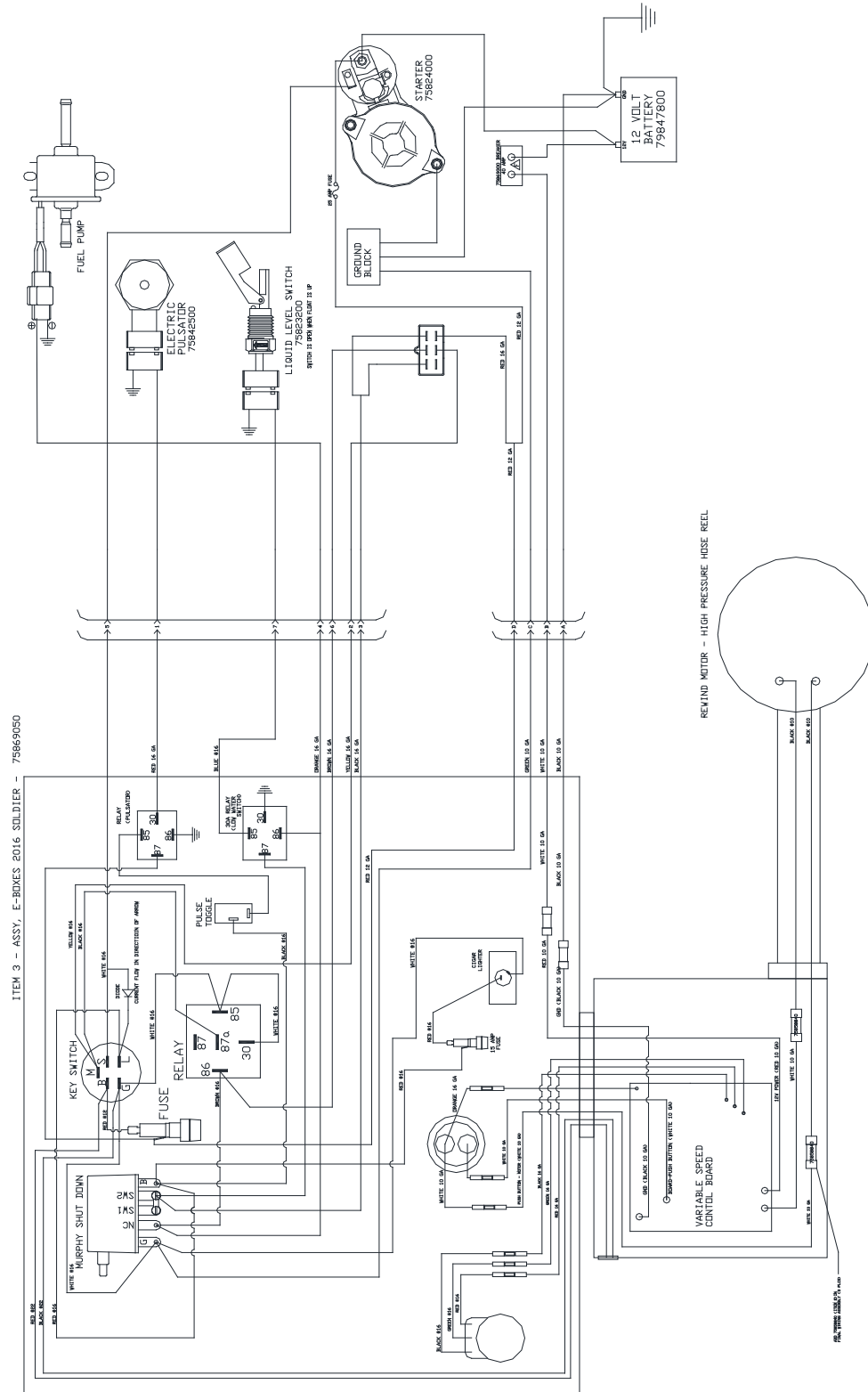
Soldier Jet Assembly - 75840800



Soldier Jet Assembly - 75840800



Wiring, Final Assembly - 75855000



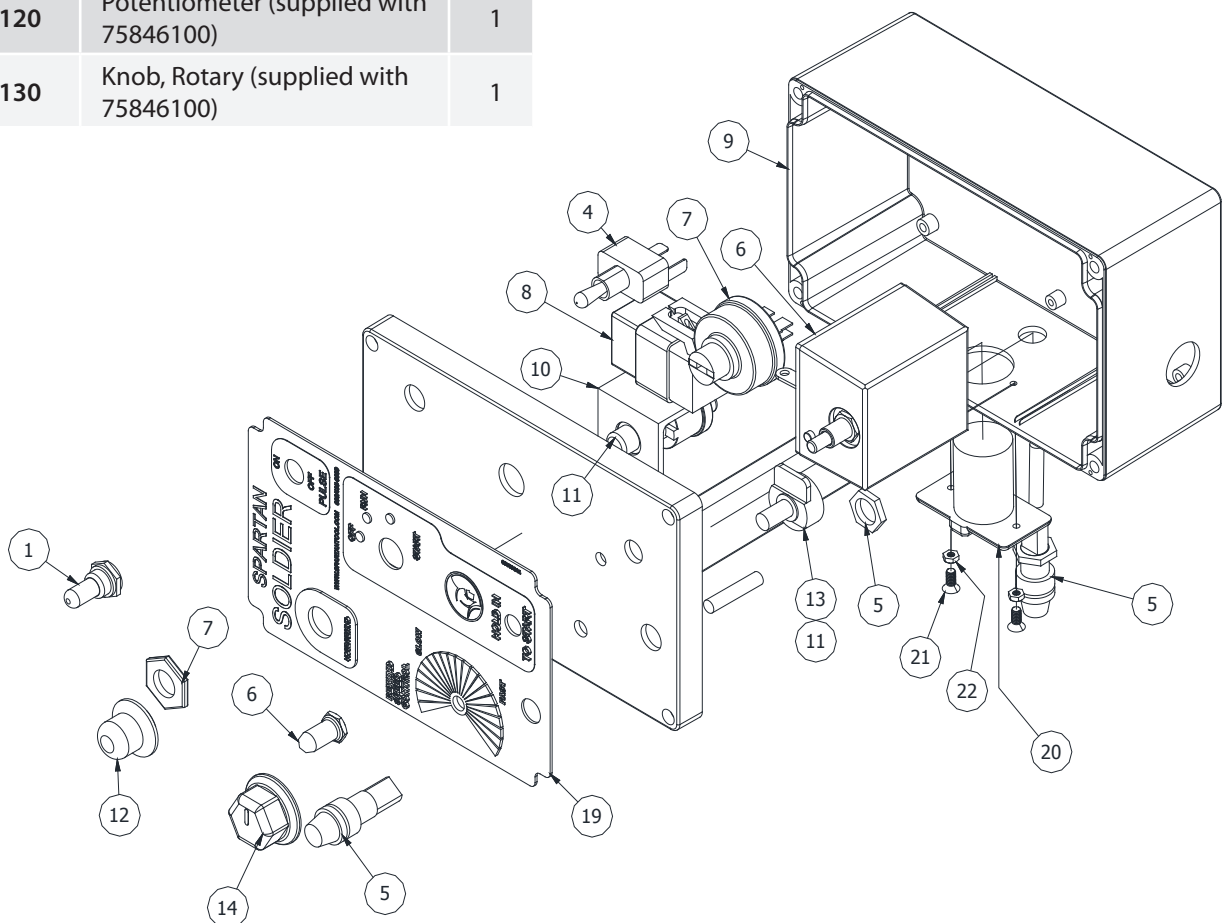


Control Box Assembly - 75845900



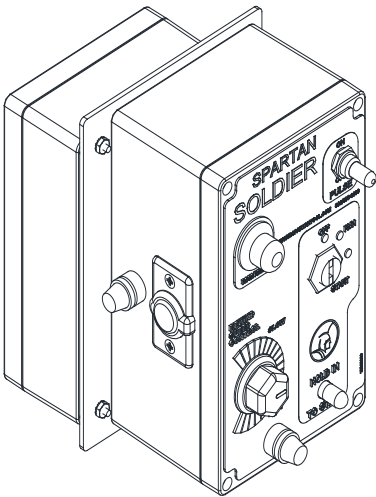
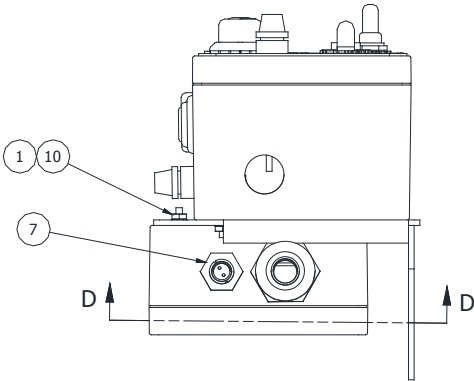
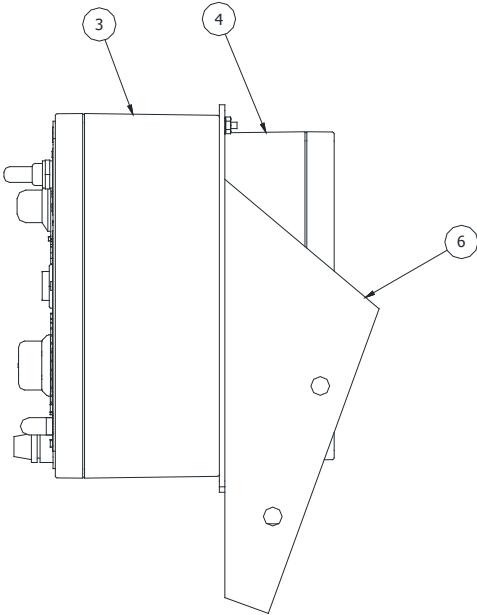
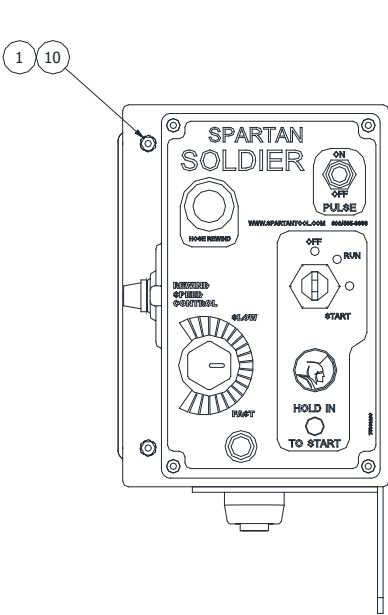
Item	Part Number	Description	Qty.
1	44110500	Rubber Boot	1
2	44216100	Disconnect, .250 Fmle 16-14	12
3	44222400	Wire, Hook-Up 16 Awg Blck	1.1
4	532000-01	Switch, Toggle Spst	1
5	61018000	Holder, Fuse	2
6	75815800	Switch, Murphy Shut-Down	1
7	75818300	Ignition Switch (27 HP)	1
8	75823600	Relay (Ignition)	1
9	75845800	Control Box, Soldier Modified	1
10	75845930	Controls, Internal Box Support	1
11	75846100	Controls, Vrbl Spd Rewind	1
12	74024700	Switch, Push Button w/Boot (supplied with 75846100)	1
13	75846120	Potentiometer (supplied with 75846100)	1
14	75846130	Knob, Rotary (supplied with 75846100)	1

Item	Part Number	Description	Qty.
15	75858810	Term, Qck 16-14 Awg	4
16	77733000	Wire, 16 Awg White	1.6
17	77733100	Wire, 16 Ga - Red Cu	2.3
18	77765700	Terminal, #10 Ring 16Ga	6
19	75869200	Decal, Control Panel	1
20	79804500	Plug, 12V DC	1
21	62017800	Screw, Flat Hd 8-32 x 3/8	2
22	61021600	Nut, 8-32	2
23	75845940	O-Ring, 1/4" x 3/8 Buna	2
24	75845950	O-Ring, 7/16" x 9/16" Buna	5
25	79957500	Desiccant Bag, Indicating	2
26	79850400	Fuse, 15 Amp	2





E-Box P&P Assembly - 75869050

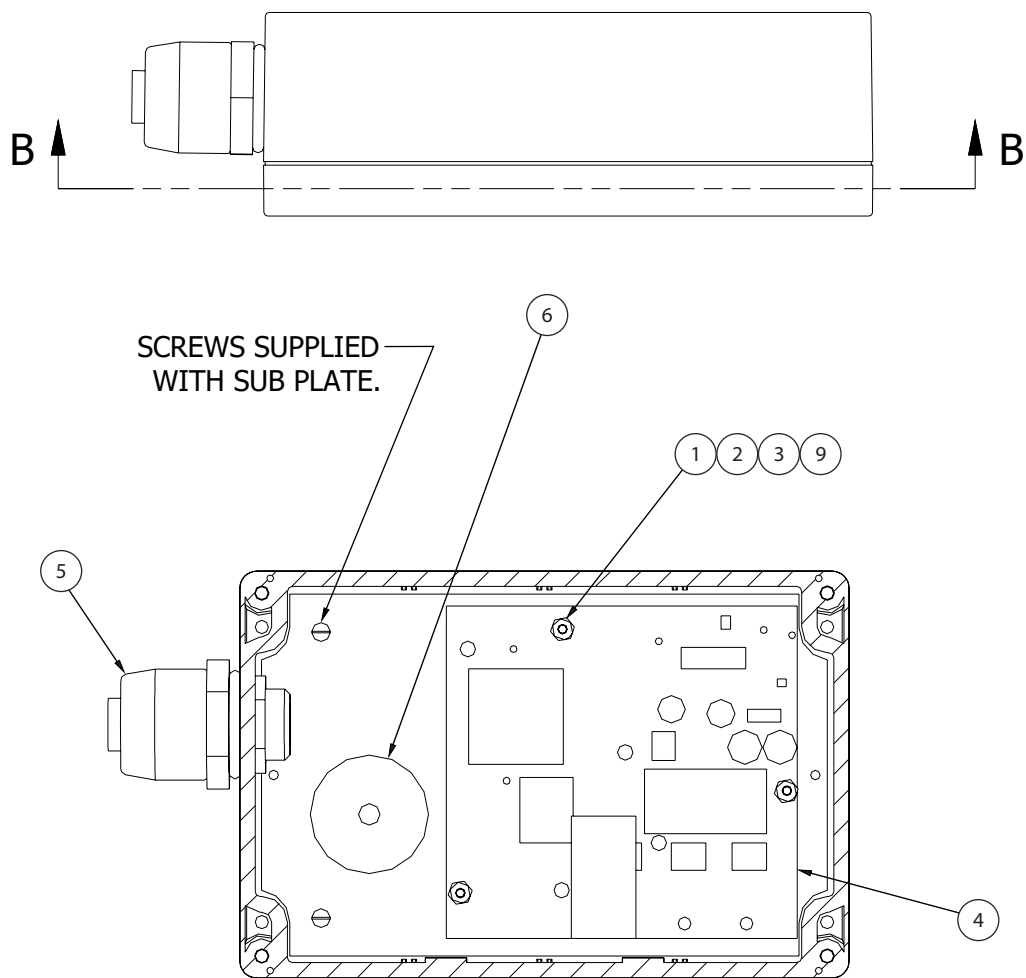


Item	Part Number	Description	Qty.
1	61026000	Screw, 6-32 x 1/2 Pan Hd Phil	6
2	73815600	Screw, Mach Fil Hd 6-32 x 1/4	2
3	75845900	Assy., 758 Control Box	1
4	75860700	Assy., Variable Speed Enclosure	1
5	75869500	Grommet, 3/8 x 3/4 x 3/4	1
6	75869900	Wldmnt, E-Boxes Soldier 2010	1
7	75875850	Harness, Wiring - Main Power	1
8	77751700	Disconnect, Male Bullet Style	5
10	77789100	Nut, Kep #6-32 Zinc Plated	6

Variable Speed Enclosure Assembly - 75860700

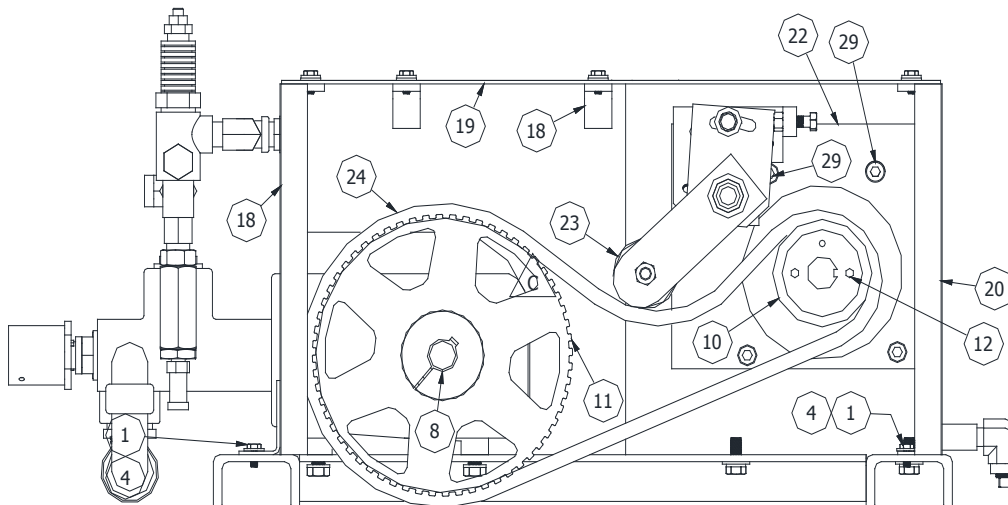
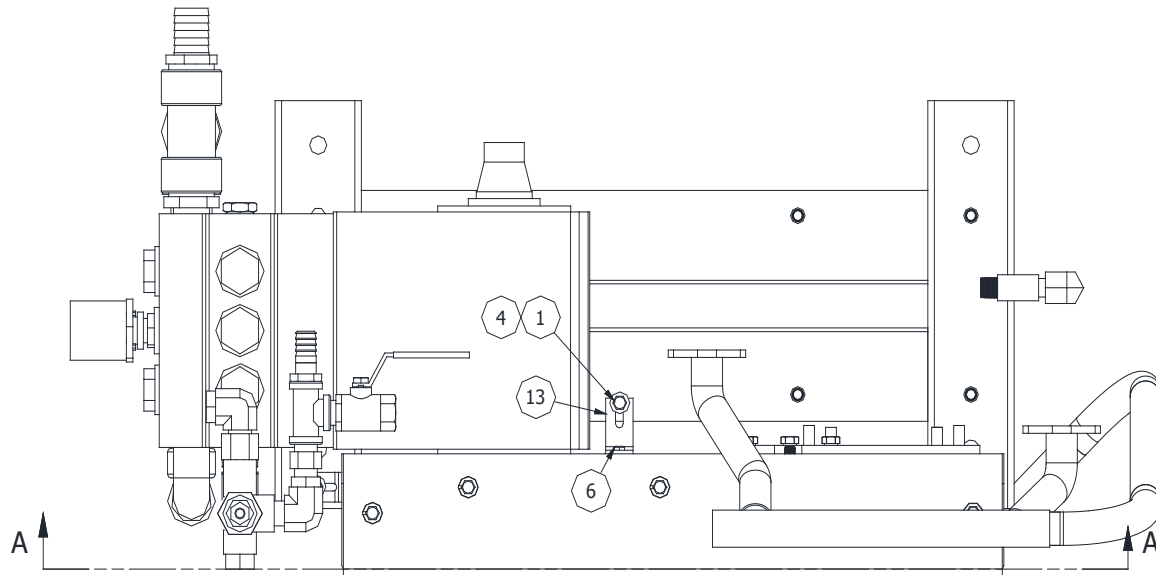


Item	Part Number	Description	Qty.
1	62018200	Nut, Hex Nylock 4-40	3
2	63011700	Spacer, Circuit Board	4
3	63011900	Screw, 4-40 x 7/8 Pan Head	3
4	75846100	Controls, Var Speed Rewind	1
5	75857600	1/2" Connector, Liq Tight Black	1
6	75860600	Variable Speed Subplate	1
7	75860710	Enclosure, Variable Speed	1
8	79957500	Desiccant Bag, Indicating	2
9	75856120	Washer, Flat #4	6



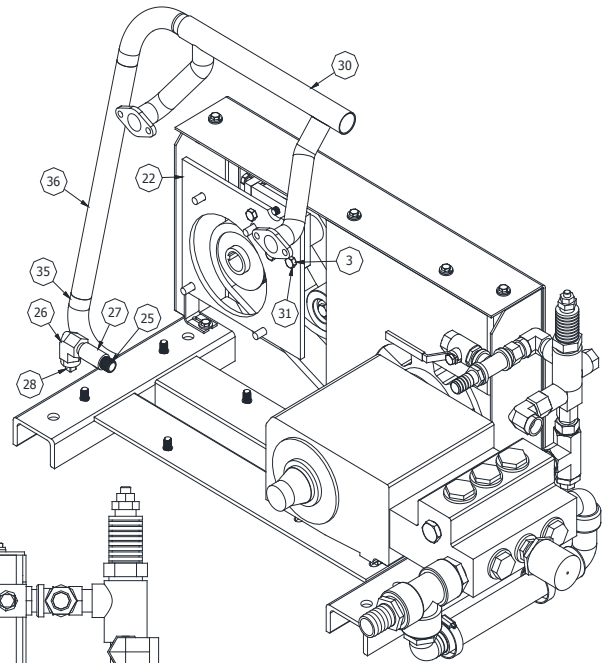
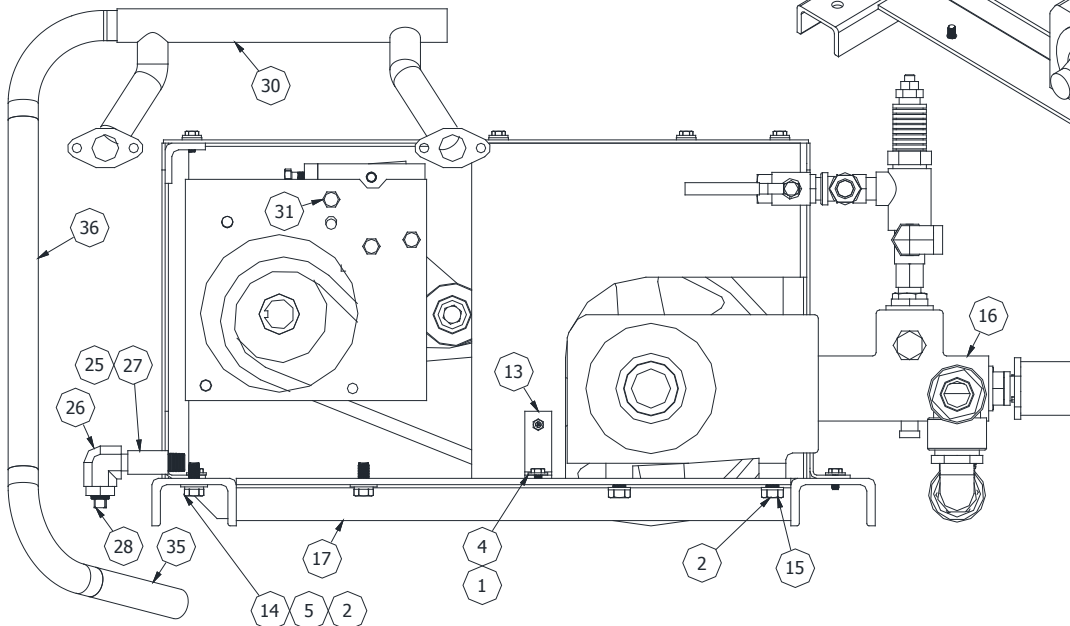
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Power Pak Assembly - 75841300

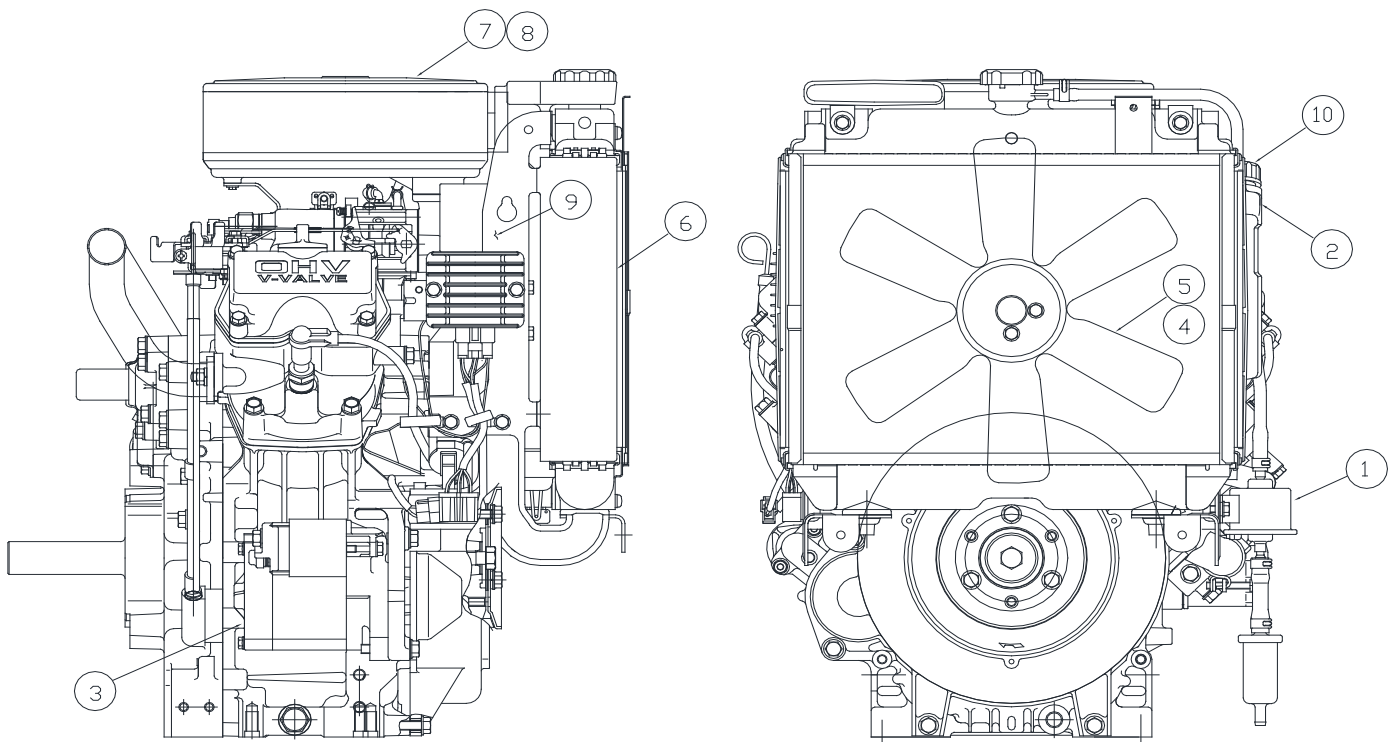
Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	00113600	Screw, Hex Hd Cap 1/4-20 x 5/8	9	23	75847000	Assy., Soldier Belt Tensioner	1
2	00162700	Washer, Flat 3/8	4	24	75848600	Belt, 510h200 (Soldier)	1
3	00165400	Washer, Lock-Split 1/4	11	25	75860200	3/8" NPT Close Nipple, Steel	1
4	02825100	Washer, Flat 1/4	11	26	75860210	Elbow, 90° Street 3/8" Stl	1
5	44029500	Lock Washer (M10)	8	27	75860220	3/8" NPT Coupler	1
6	44119500	Screw Hex Wash 10-24 x 1/2F	1	28	75860250	3/8" NPT Plug, Steel	1
8	73810500	Bushing, Driven	1	29	75860330	Screw, M10-1.5 x 25mm Sck Cap	3
9	75818000	Engine, 758 27 HP Kawasaki	1	30	75861700	Manifold Weldment Soldier	1
10	75820500	Sheave, Drive 22HP200	1	31	77738300	Screw, Cap Hex Hd 3/8-16 x 3/4	3
11	75820600	Sheave, Driven (27 HP)	1	34	74015900	Display, Tach/Hours (Not Shown)	1
12	75820700	Bushing, Drive P2 1-1/8	1	35	73833500	Pipe, Flexible Exhaust	5 ft.
13	75820800	Bracket, Belt Guard (Bottom)	1	36	73855500	Wrap, High Temperature Exhaust	12 ft.
14	75822800	Screw, Hex Hd Cap M10 x 25mm	5				
15	75823100	Screw, Cap M12-1.75 x 25mm	4				
16	75841100	Assy., 758 Pump	1				
17	75841200	Weldment, Power Pak Support	1				
18	75842200	Weldment, Belt Cover	1				
19	75842220	Cover, 758 Belt Guard	1				
20	75842260	Weldment, 758 Belt Guard End	1				
22	75846900	Plate, Belt Tensioner Mount	1				



Engine, 758 27HP Kawasaki - 75818000



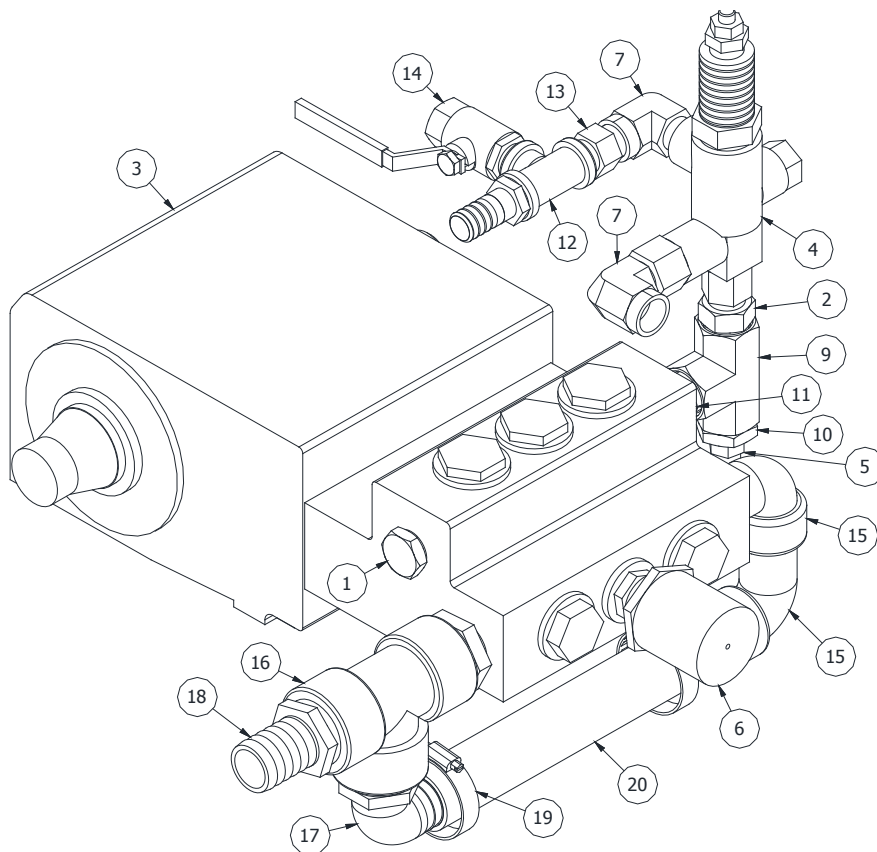
Item	Part Number	Description	Qty.
1	75816700	Pump, Fuel Electric Kawasaki	1
2	75817300	Tank, Coolant-Kawasaki	1
3	75824000	Starter, 27 HP Kawasaki	1
4	75824100	Fan, 27 HP Kawasaki	1
5	75825100	Shoud, Fan 27 HP	1
6	75826000	Radiator, 758 Jet 27 HP	1
7	75826500	Air Filter Element Kawasaki 27 HP	1
8	75826600	Outer Foam Element, Kawasaki 27 HP	1
9	75826010	Bracket, Radiator Support (Set)	1
10	75817310	Cap, Coolant	1





High Pressure Pump Assembly - 75841100

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	542103-05	Plug Hex Hd 3/4 Stl	1	13	77770800	Nipple, Hex 1/2 NPT	1
2	73811700	Nipple, Reducer 3/4 x 1/2	1	14	72704800	Valve, Ball 1/2 M x 1/2 F	1
3	75800500	Pump, Speck P41/48-220	1	15	75803200	Elbow, 90 Deg. Street 1" Poly	2
4	75802800	Unloader, Giant	1	16	75803000	Tee, 1-1/4 Polypropylene	1
5	79973000	Valve, Pop-Off	1	17	79818600	Hose Barb, 1-1/4 Polypro	1
6	75842500	Pulsator Valve, Electric 758	1	18	79812000	Hose Barb, 1-1/4 Polypro	1
7	77705101	Elbow, 90° Street 1/2 Steel	2	19	73831200	Clamp, Hose 1-1/16" - 2" #24	2
8	77741400	Oil, Pump 85W 140 Gear Wt	32 oz.	20	77710200	Hose, 1-1/4 x 4 Spiral Sm	1
9	79816100	Tee, 3/4 NPT Steel	1	21	73827400	Nipple, Reducer 1-1/4 x 1 Polypro	1
10	79816300	Reducer Bushing 3/4 x 1/4	1	22	75843400	Hose Barb, PP 1" MNPT to 1-1/4" Hb	1
11	79825300	Nipple, Hex 3/4" x 2" Steel	1	23	79843910	3/4" Hose Barb x 1/2" MPT Straight	1
12	79904466	Tee, 1/2" NPT Brass	1				



Soldier Pump Parts Lists

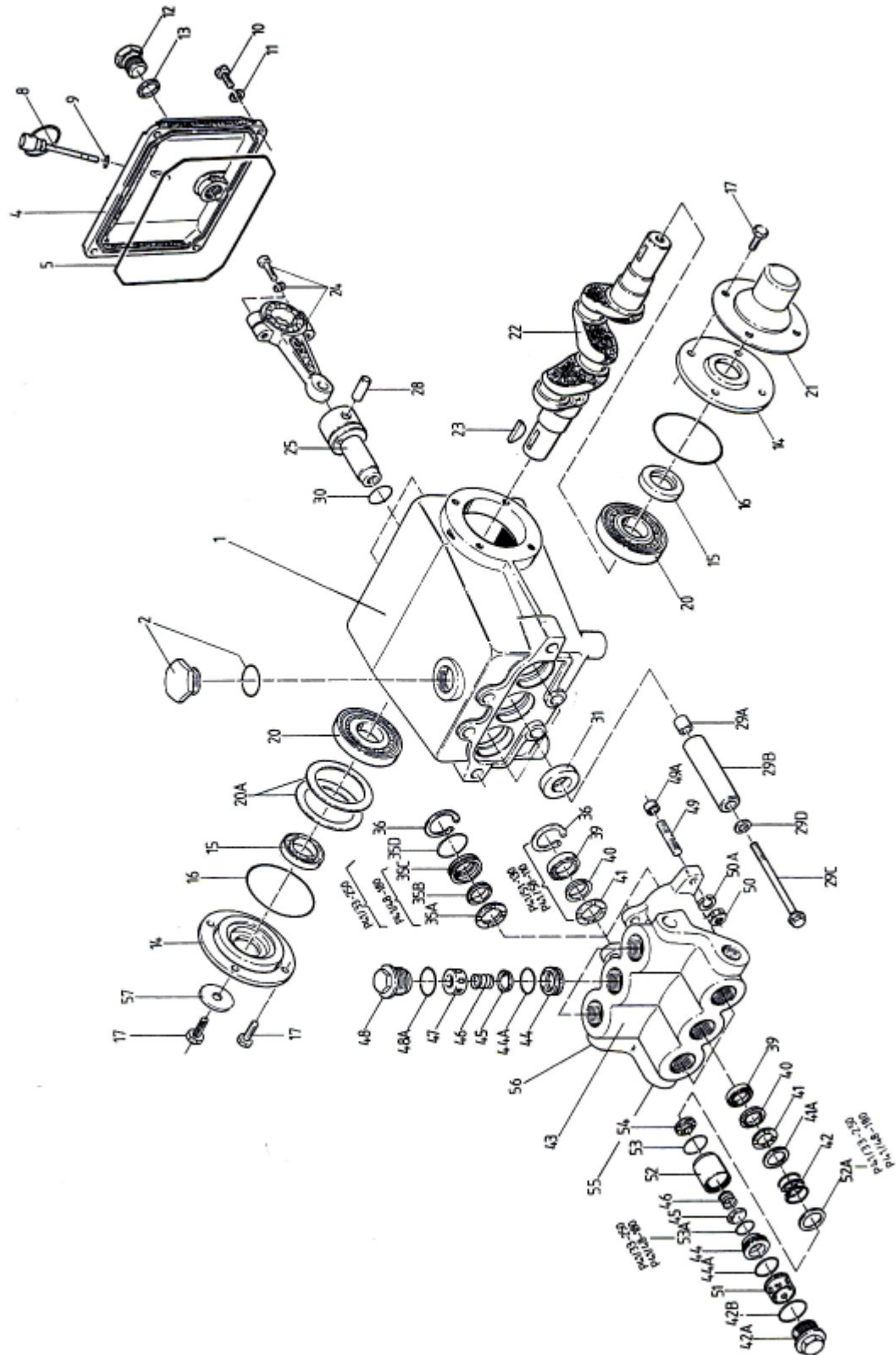


Item	Part Number	Description	Qty.
1	75800505	Crankcase	1
2	75800506	Oil Filler Cap	1
3	75800507	O-Ring, Filler Cap	1
4	75800508	Cover, Crankcase	1
5	75800509	O-Ring, Crankcase Cover	1
8	75800510	Oil Dip Stick	1
9	75800511	O-Ring, Dip Stick	1
10	75800512	Screw, Crankcase Cover	4
11	75800513	Spring Washer	12
12	75800514	Oil Drain Plug	1
13	75800515	Gasket, Oil Drain Plug	1
14	75800516	Bearing Cover	2
15	75800517	Seal, Crankshaft	2
16	75800518	O-Ring, Bearing Cover	2
17	75800519	Hex Screw Bearing Cover	8
20	75800520	Rolling Bearing, Tapered	2
20A	75800521	Shim	3
21	75800522	Shaft Protector	1
22	75800523	Crankshaft	1
23	75800524	Key	1
24	75800525	Connecting Rod	3
24A&B	75800526	Hex Screw w/Washer, Conn. Rod	6
25	75800527	Crosshead Complete	3
28	75800528	Crosshead Pin	3
29A	75800529	Centering Sleeve	3
29B	75800530	Ceramic Plunger, 24mm	3
29C	75800531	Bolt, Sold only w/#07258	3
29D	75800532	Seal Washer	3
30	75800533	Flinger	3
31	75800534	Crankcase Oil Seal	3

Item	Part Number	Description	Qty.
35A	75800535	Rear Support Ring	3
35B	75800536	Rear V-Sleeve	3
35C	75800537	Rear Pressure Ring	3
36	75800538	Snap Ring	3
39	75800539	Pressure Ring	3
40	75800540	V-Sleeve	3
41	75800541	Support Ring	3
41A	75800542	Spacer	3
42	75800543	Tension Spring	3
42A	75800544	Tension Plug	3
42B	75800545	O-Ring	3
43	75800546	Manifold Head	1
43A	75800547	Plug	2
43B	75800548	Plug	2
44	75800549	Valve Seat	6
44A	75800550	O-Ring, Valve Seat	6
45	75800551	Valve Plate	6
46	75800552	Valve Spring	6
47	75800553	Spring Retainer, Discharge	3
48	75800554	Plug, S.S.	3
48A	75800555	O-Ring Plug	3
49	75800556	Stud, Manifold	6
49A	75800557	Shim, Stud	2
50	75800558	Nut, Manifold Stud	6
50A	75800559	Spring Washer	6
51	75800560	Spacer	3
52	75800561	Valve Housing	3
52A	75800562	Spacer Ring	3
53	75800563	O-Ring	3
53A	75800564	O-Ring	3
54	75800565	Spring Retainer, Inlet	3



Soldier Pump - Exploded View



Soldier Pump Torque Specifications



Item	Part Number	Description	Qty.
17	75800519	Hex Screw, Bearing Cover	125 in. - lbs.
24A	75800526	Hex Screw, Connecting Rod	250 in. - lbs.
29C	75800531	Bolt, Plunger	300 in. - lbs.
50	75800558	Nut, Manifold Stud	700 in. - lbs.

Soldier Pump Repair Kits



DISCHARGE VALVE ASSY. KIT (75800568)

Item	Part Number	Description	Qty.
3	75800555	O-Ring, Plug	3
3	75800553	Spring Retainer	3
3	75800552	Valve Spring	3
3	75800550	O-Ring, Valve-Seat	3
3	75800549	Valve Seat	3
3	75800551	Valve Plate	3

PLUNGER PACKING KIT (75800566)

Item	Part Number	Description	Qty.
40	75800540	V-Sleeve	3
35B	75800536	Rear V-Sleeve	3

INLET VALVE ASSY. KIT (75800567)

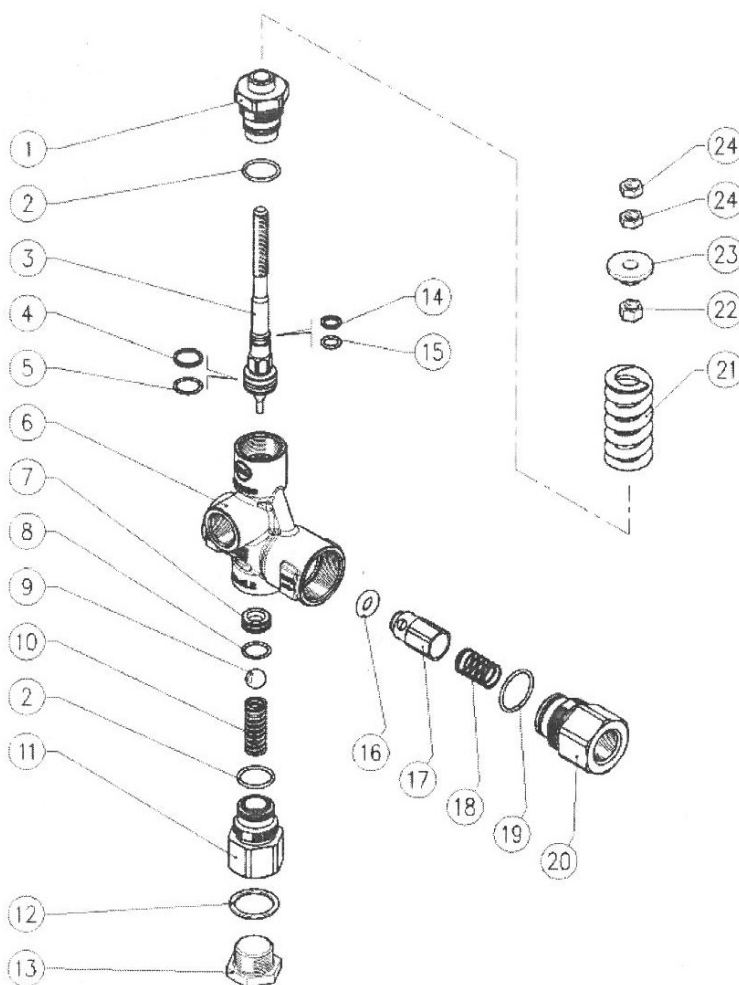
Item	Part Number	Description	Qty.
42B	75800545	O-Ring Tension Plug	3
44A	75800550	O-Ring, Valve-Seat	3
44	75800549	Valve Seat	3
53A	75800564	O-Ring	3
45	75800551	Valve Plate	3
46	75800552	Valve Spring	3
53	75800563	O-Ring	3
54	75800565	Spring Retainer	3



Unloader - 75802800

Item	Part Number	Description	Qty.
1	75802826	Piston Holder, Brass	1
2	75802827	O-Ring	2
3	75802828	Piston	1
4	75802812	Support Ring	1
5	75802813	O-Ring	1
6	75802829	Housing	1
7	75802830	Seat	1
8	75802831	O-Ring	1
9	75802832	Ball	1
10	75802833	Spring	1
11	75802834	Inlet Fitting, SS	1
12	75802835	Washer	1
13	75802836	Plug	1
14	75802837	Support Ring	1
15	75802838	O-Ring	1
16	75802822	O-Ring	1
17	75802839	Kick-Back Valve	1
18	75802840	Spring	1
19	75802841	O-Ring	1
20	75802842	Discharge Fitting, Brass	1
21	75802843	Spring, Blue	1
22	75802844	Hexagon Nut	1
23	75802845	Spring Holder	1
24	75802846	Hexagon Nut	1

NOTE: Always remember to generously lubricate all moving parts with a light weight oil for easy reassembly and to give the moving parts protection when “running in” the unloader.



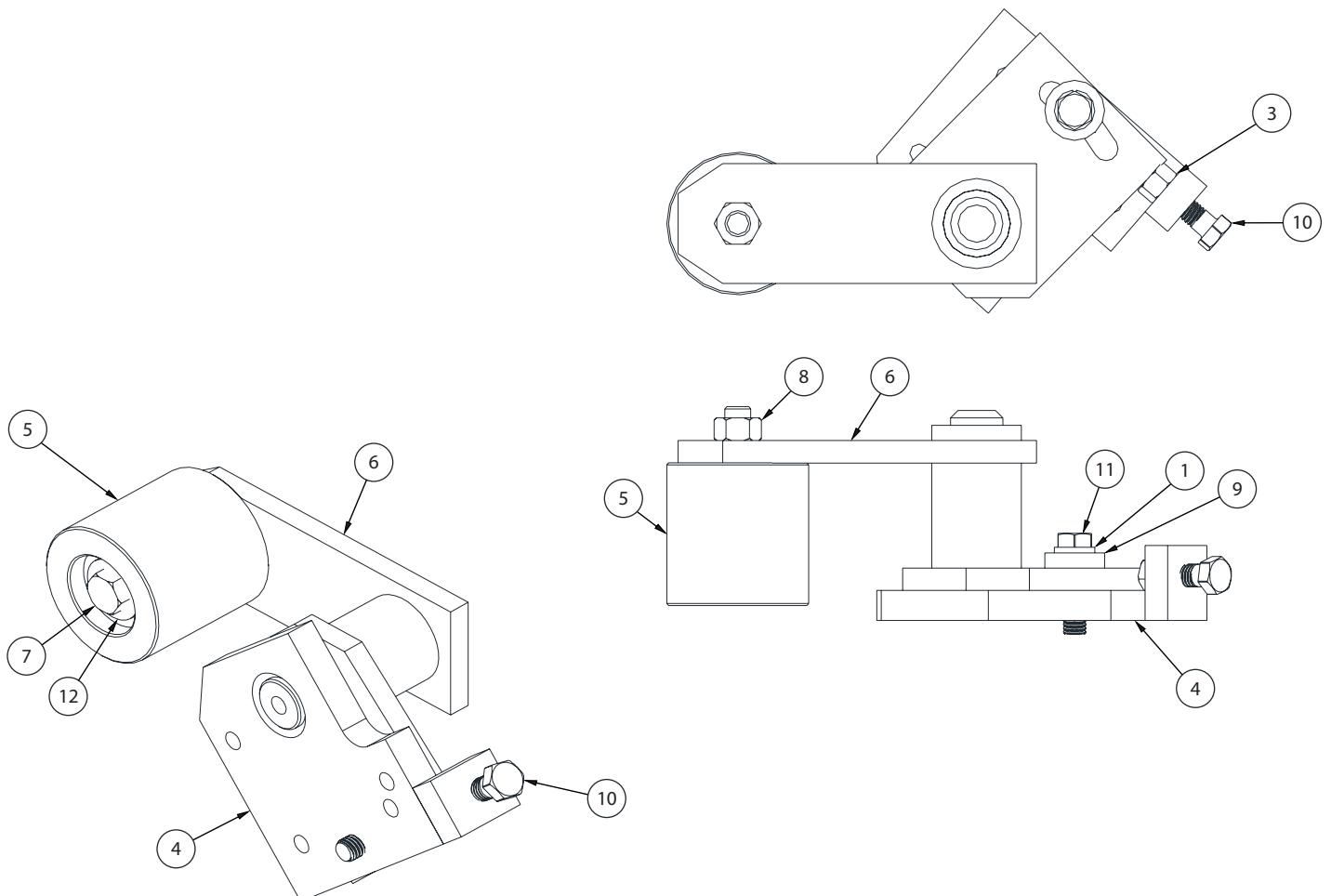
UNLOADER REPAIR KIT (75802825)

Item	Part Number	Description	Qty.
2	75802827	O-Ring	2
4	75802812	Support Ring	1
5	75802813	O-Ring	1
7	75802830	Seat	3
8	75802831	O-Ring	1
9	75802832	Ball	2
14	75802837	Support Ring	1
15	75802838	O-Ring	1
16	75802822	O-Ring	1
19	75802841	O-Ring	1

Soldier Belt Tensioner - 75847000

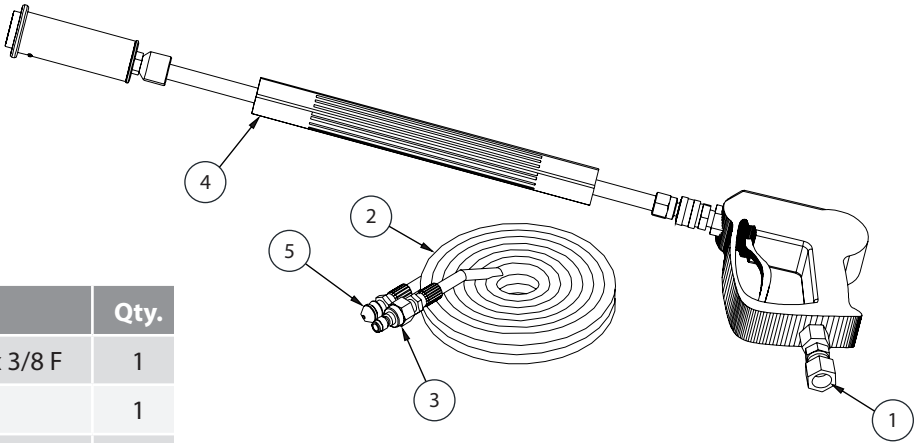


Item	Part Number	Description	Qty.
1	00165800	Washer, Lock Split 3/8	1
3	01733900	Nut, Hex 3/8-16	1
4	75848500	Weldment, Belt Tensioner Mount	1
5	75848700	Assy., Idle Roller	1
6	75848800	Weldment, Tensioner Arm	1
7	75848850	Screw, Hex HD 7/16-14 x 3 Grd 8	1
8	75848860	Nut, Hex 7/16-14 Grd 8	1
9	77755000	Washer, Robo 3/8"	1
10	77759900	Screw, Hex HD 3/8-16 x 1-1/4	1
11	75871690	Screw, Hex HD 3/8-16 x 2	1
12	79942600	Washer, Flat SAE 1/2" - .074 Thck	2





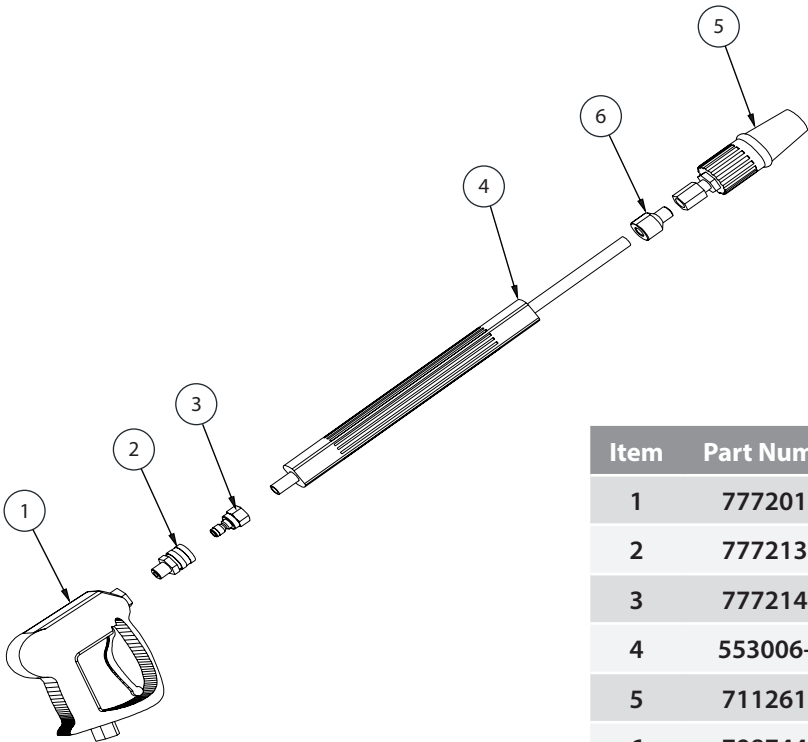
Wash Down Accessory Package - 73817300



Item	Part Number	Description	Qty.
1	73816500	Adapter, Swivel 3/8 M x 3/8 F	1
2	77719500	Hose, 1/4" x 75'	1
3	77721400	Coupler, Quick Gun Male	1
4	77799800	Handgun Lance Vnozzle Assy.	1
5	77815800	Nozzle, 1/4" Domed (6)	1



Handgun Lance Vnozzle Assembly - 77799800

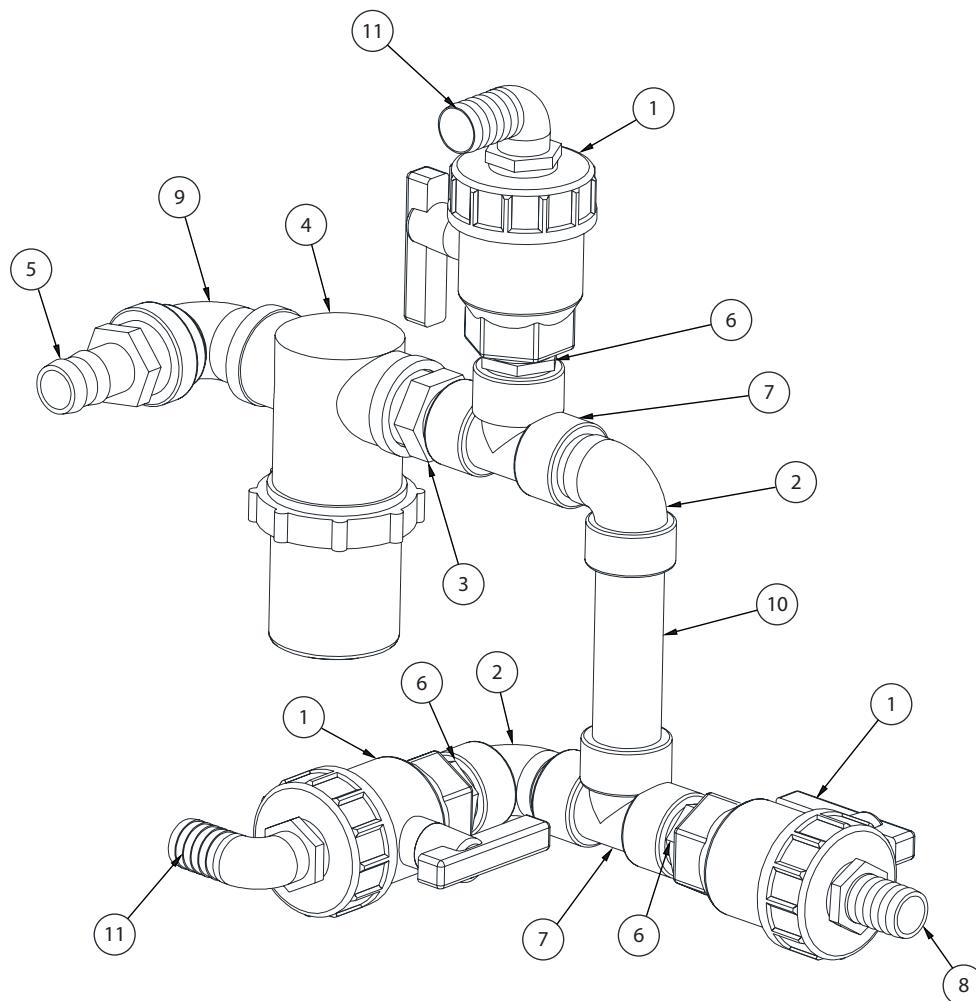


Item	Part Number	Description	Qty.
1	77720100	Gun, Hand	1
2	77721300	Coupler, Quick Gun, 1/4" NPT Male	1
3	77721400	Coupler, Quick Gun, Male	1
4	553006-01	Lance, Insulated Grip, 18"	1
5	71126110	Nozzle - Variable #08 .072	1
6	79874400	Fitting, Wand Anti-kickback	1

Strainer Assembly - 75843500

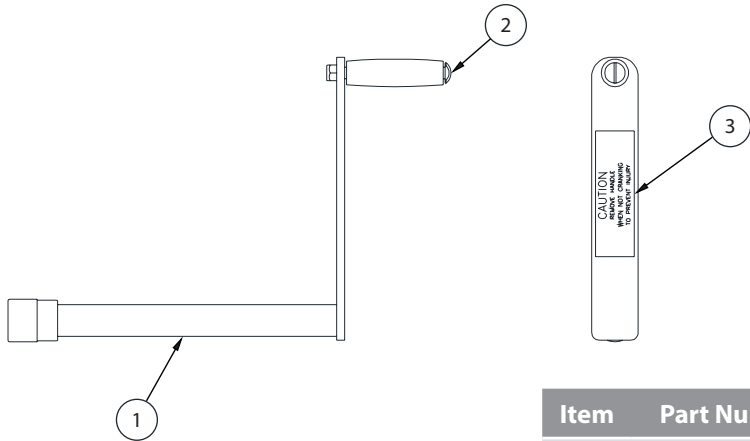


Item	Part Number	Description	Qty.
1	79811500	Valve, Ball 1-1/4 FNPT x 1-1/4F	3
2	79811300	Elbow, 90° Street 1-1/4 Poly	2
3	79811600	Nipple, 1-1/2 x 1-1/4 MPT Polyp	1
4	79811700	Strainer, 1-1/2 NPT	1
5	75824700	Hose Barb, 1-1/2 MPT x 1-1/4	1
6	75802900	Nipple, 1-1/4 Hex Polypropylene	3
7	75803000	Tee, 1-1/4 Polypropylene	2
8	79812000	Hose Barb, 1-1/4 Polypropylene	1
9	79811400	Elbow, 90° Street 1-1/2 Poly	1
10	75847300	Nipple, 1-1/4" NPT x 6" Length PP	1
11	79818600	Hose Barb, 1-1/4 Polypropylene	2





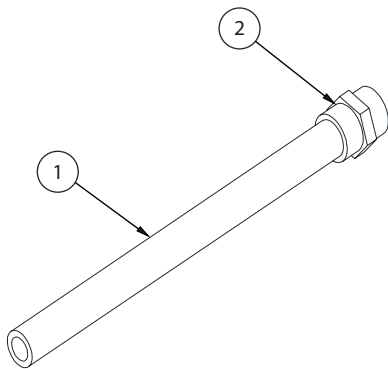
Hand Crank Assembly - 79827300



Item	Part Number	Description	Qty.
1	79827400	Weldment, Hand Crank	1
2	79827800	Plastic Handle w/Bolt & Nut	1
3	77763500	Decal, Crank	1



3/8" Anti-Turn Assembly Around - 75866500

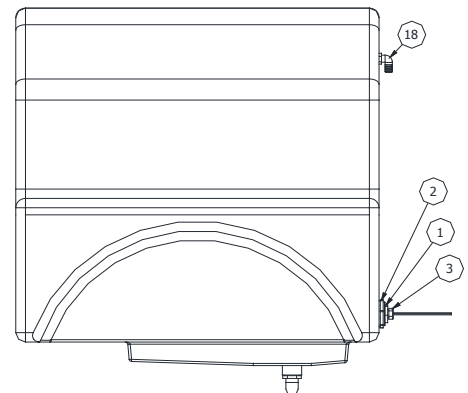
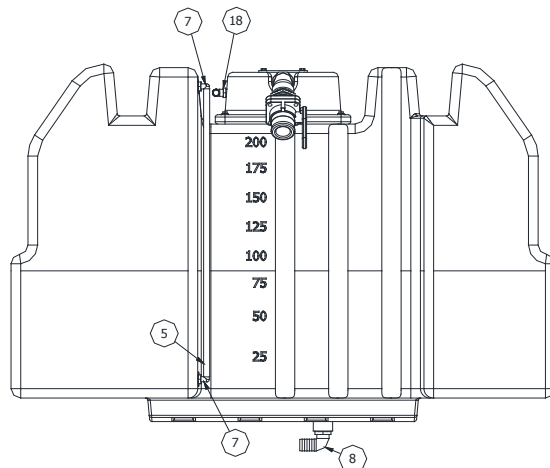
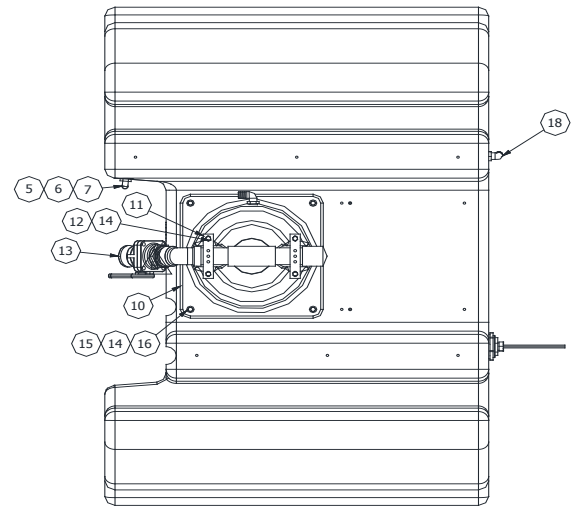


Item	Part Number	Description	Qty.
1	75866510	Nipple, 3/8" x 9" Long	1
2	73818400	Coupler, Female 3/8 Hose	1

Water Tank Assembly - 75841600



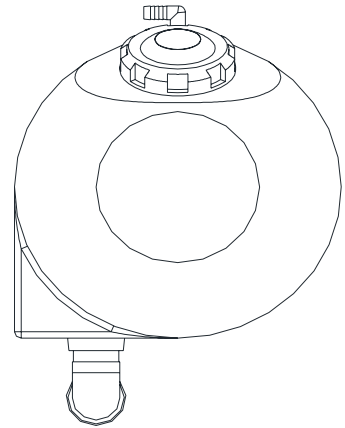
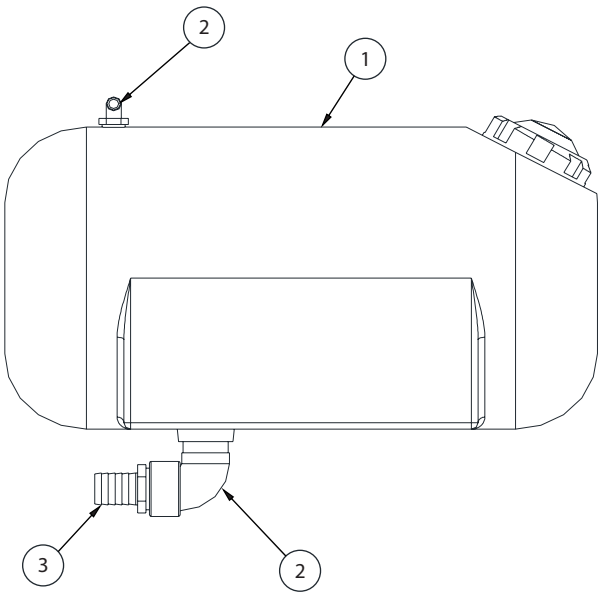
Item	Part Number	Description	Qty.
1	73827600	Bushing, Reducer (Modified)	1
2	73827800	Bulkhead Fitting w/PVC Cap	1
3	75823200	Switch, Liquid Level	1
4	75840901	200 Gal Watertank, Soldier - Mod	1
5	75841610	Tube-Sight Water Level -200 Gal	31"
6	75841620	Float, 200 Gal Watertank Sight	1
7	75851800	Elbow, 90° HB 1/2 NPT (Black)	4
9	79818600	Hose Barb, 1-1/4 Polypropylene	1
10	75867250	T-Nut, 1/4-20 Thrd - 5/16 HGT	4
11	79921710	Clamp, Tank Fill Pipe	2
12	00113600	Screw, Hex Hd Cap 1/4-20 x 5/8	4
13	75867400	Hydrant Fill Assy. (2015)	1
14	00165400	Washer, Lock Split 1/4	8
15	63031390	Screw, 1/4-20 x 1-1/2" Hex Hd Al	4
16	02825100	Washer, Flat 1/4 USS	6
17	02821200	Nut, Nylock Jam 1/4-20	2
18	79843900	3/4" Hose Barb x 1/2" MNPT Elbow	2





Antifreeze Tank Assembly - 75847100

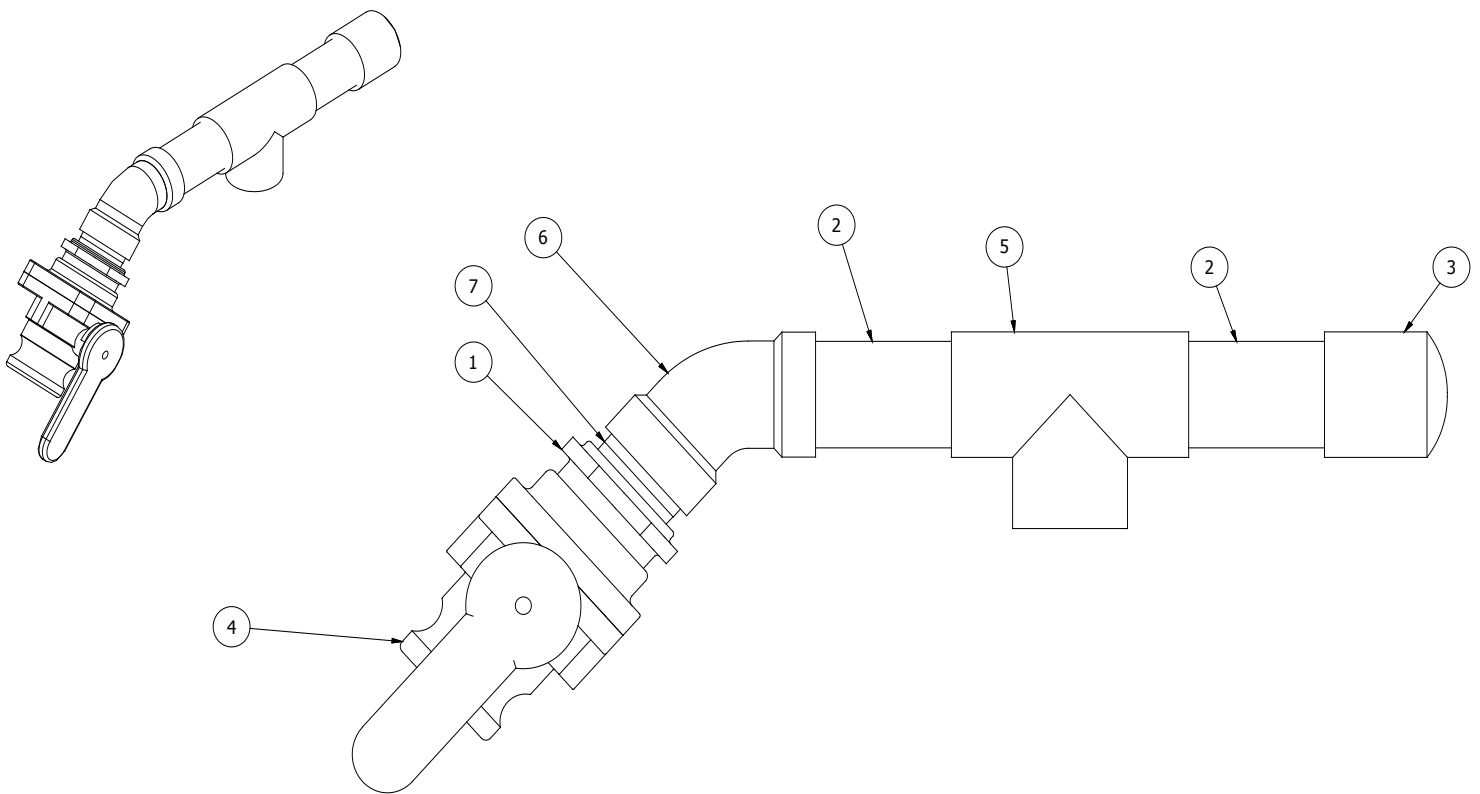
Item	Part Number	Description	Qty.
1	75842400	Tank, Antifreeze 8-1/4 Gal	1
2	79811300	Elbow, 90° Street 1-1/4 Poly	1
3	79812000	Hose Barb, 1-1/4 Polypropylene	1
4	75811700	Elbow, 90° Hose Barb 1/2 NPT	2
5	75842420	Cap, Anti-Freeze (Furnished with tank 75842400)	1



Hydrant Fill Assembly - 75867400

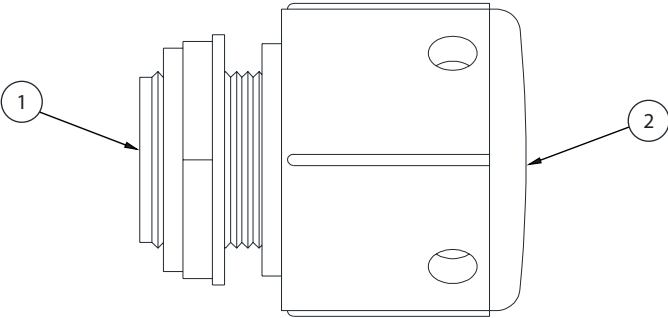


Item	Part Number	Description	Qty.
1	75853630	2" MPT x 1-1/2" FPT Reducer Bushing	1
2	75867410	Pipe, 1-1/2" x 4.25" - Sch 40 PV	2
3	75867420	Cap, 1-1/2" - Sch 40 PV	1
4	79842800	Ball Valve 2" w/Quick Coupler	1
5	79921340	Tee, 1-1/2" Sch 40 PVC	1
6	79921370	Elbow, 1-1/2" 45° Sch 40 PVC	1
7	79921380	Nipple, 1-1/2" PVC/NPT Sch 40	1





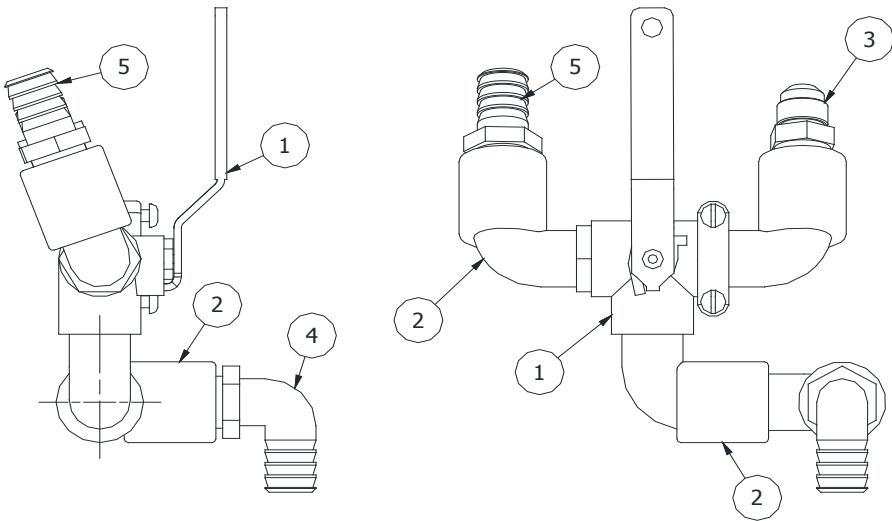
Bulkhead Fitting w/PVC Cap - 73827800



Item	Part Number	Description	Qty.
1	73827700	Bulkhead Fitting, 1-1/4	1
2	73827500	Cap, PVC 2-1/2 NPT	1



Recirculation Fittings Assembly - 75868810



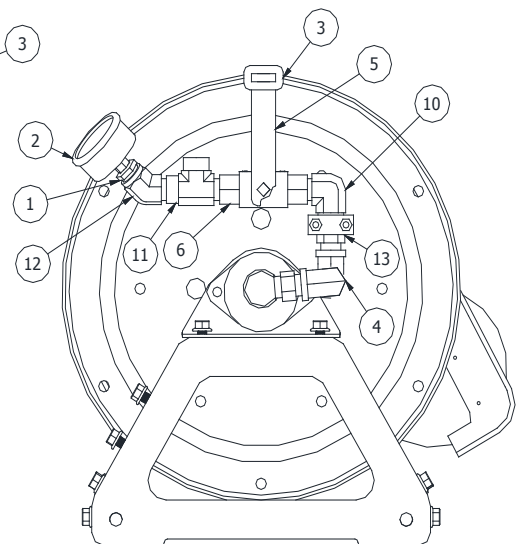
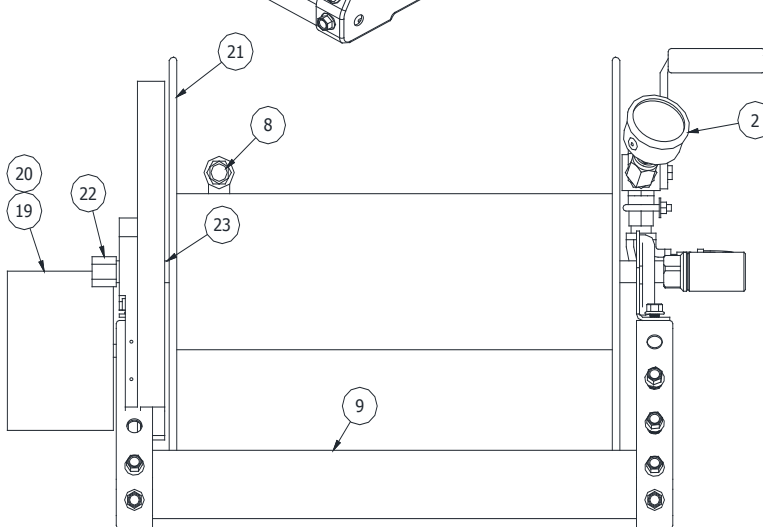
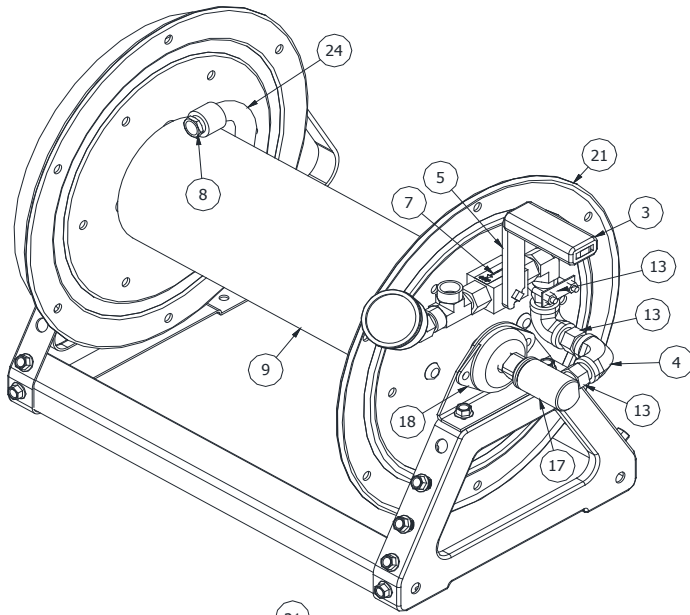
Item	Part Number	Description	Qty.
1	79904410	Valve, 1/2 Brass 3 Way	1
2	79904440	St El 90 D 1/2 Plastic	4
3	79904476	Adapter, 1/2 NPT-8Jic 45D Brass	1
4	79843900	3/4" Hose Barb x 1/2" MNPT Elbow	1
5	79904504	Adapter, 3/4 NPT 45D Plastic	1

High Pressure Reel Assembly - 75870000



Item	Part Number	Description	Qty.
1	542104-05	Bushing, Reducer 1/2 x 1/4	1
2	544000-01	Gauge, 5000 PSI	1
3	71102500	Grip, Foam Black	1
4	72714600	Elbow, 90° Female 1/2	1
5	73816100	Handle, HP Valve	1
6	73816200	Valve, Ball 1/2 NPT HP	1
7	73817800	Decal, Ball Valve On/Off	1
8	73820600	Bushing, Reducer 1/2 x 3/8	1
9	75870100	Reel, HP - 2010 Soldier	1

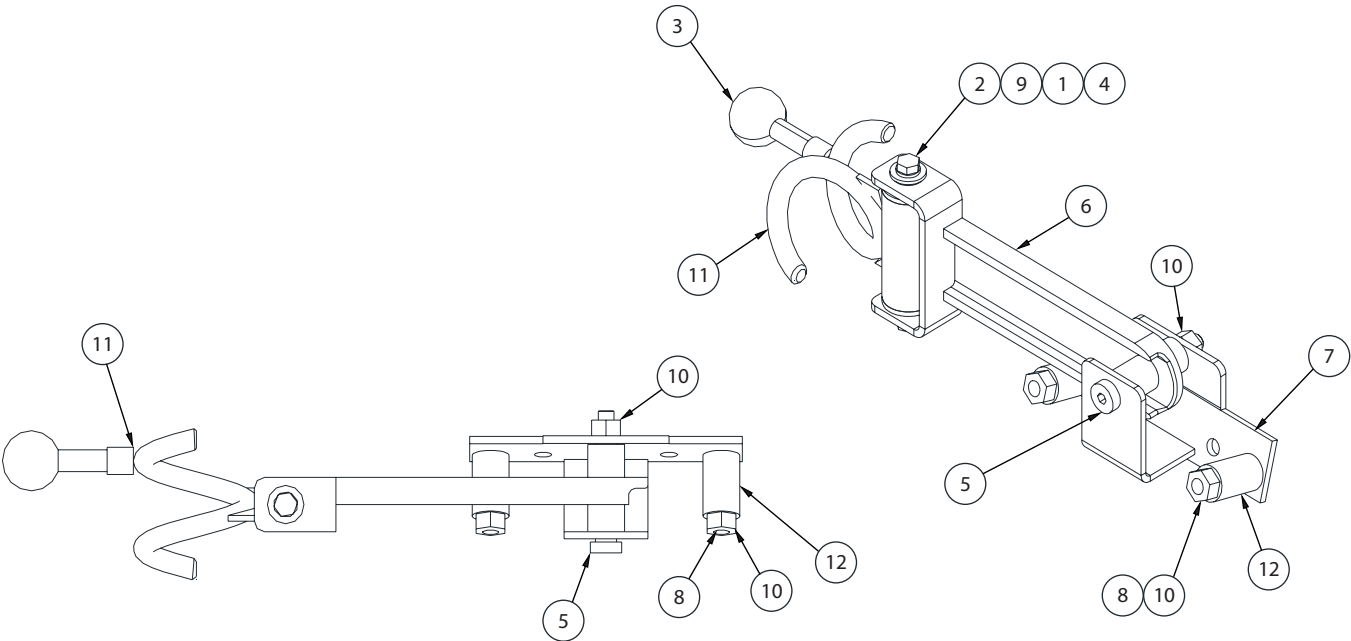
Item	Part Number	Description	Qty.
9	75870100	Reel, HP - 2010 Soldier	1
10	77705101	Elbow, 90° Street 1/2"	1
11	77711301	Tee, Male Run 1/2 NPT	1
12	77763900	Elbow, 45° Street 1/2"	1
13	77770800	Nipple, Hex 1/2 NPT	3
16	521400-04	U-Bolt 1 x 1-3/4 1/4-20 Zinc	1
17	73819000	Swivel (Furnished with 75870100)	1
20	75870600	Sprocket, Drive (Furnished with 75870100)	1
21	75800405	Disk, HP Reel (Furnished with 75870100)	2
22	75800406	Cap, Pipe HP Reel (Furnished with 75870100)	1
23	73853200	Disc Washer	2
24	75870120	Pipe Hub	1





Hose Guide Assembly - 75871500

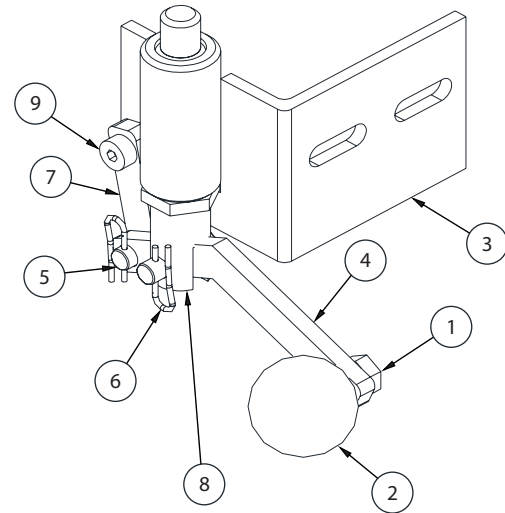
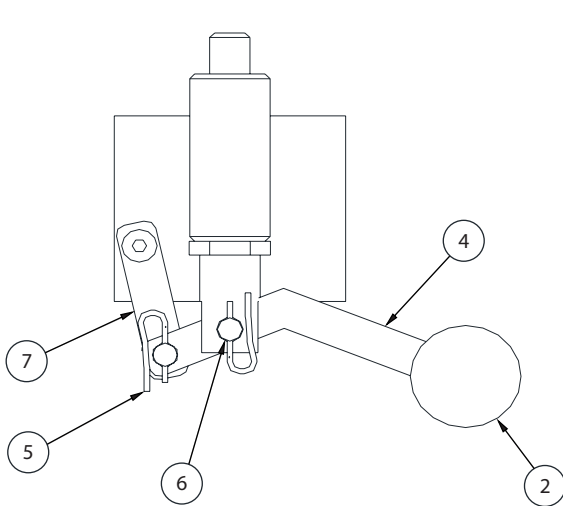
Item	Part Number	Description	Qty.
1	00162600	Washer, Flat 5/16 USS	2
2	02939000	Screw, Cap Hex Hd 5/16-18 x 3/4	2
3	75825303	Lever, Steel Ball Handle	1
4	75845090	Shaft, S.S. .75 O.D.	1
5	75871100	Screw, Shoulder 1/2 D x 2-1/4	1
6	75871200	Weldment, Hose Guide 2010	1
7	75871400	Weldment, Hose Guide Bracket	1
8	75871430	Screw, Flat Hd 3/8-16 x 2	2
9	77734400	Washer, Lock Split 5/16	2
10	77748000	Nut, Stover Lock 3/8-16 Unc	3
11	79911600	Assy., Coiled Hose Guide	1
12	79932110	Roller, Hose Support 180	2



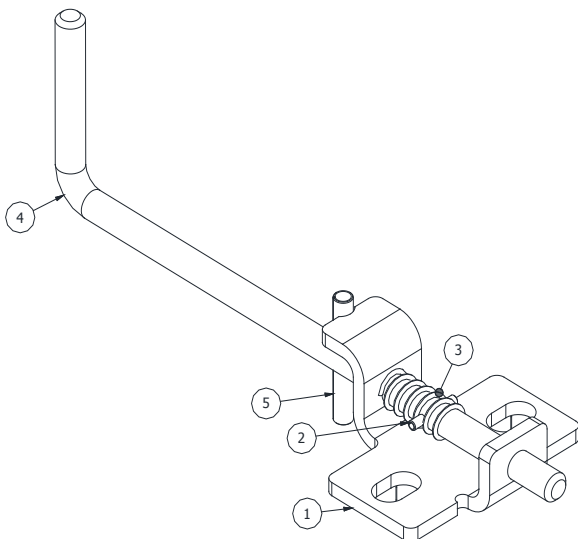
Index Latch Assembly - 75872000



Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	02939000	Screw, Cap Hex Hd 5/16-18 x 3/4	1	5	75872200	Pin, Clevis w/Cttr - 5/16D x 3/4L	1
2	75852020	Black Knob, 1-3/8" O.D. Threaded	1	6	75872250	Pin, Clevis w/Cttr - 5/16D x 3/4L	1
3	75872100	Weldment, Spring Pin - Mntng Brckt	1	7	79957020	Plate, Pivot Lever Arm	1
4	75872150	Lever Arm, Index Latch Handle	1	8	79957040	Coupler, Lever Arm - Spring Pin	1
				9	79957050	Screw, Shoulder 5/16 x 1/4 S.S.	1



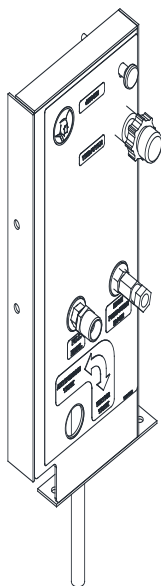
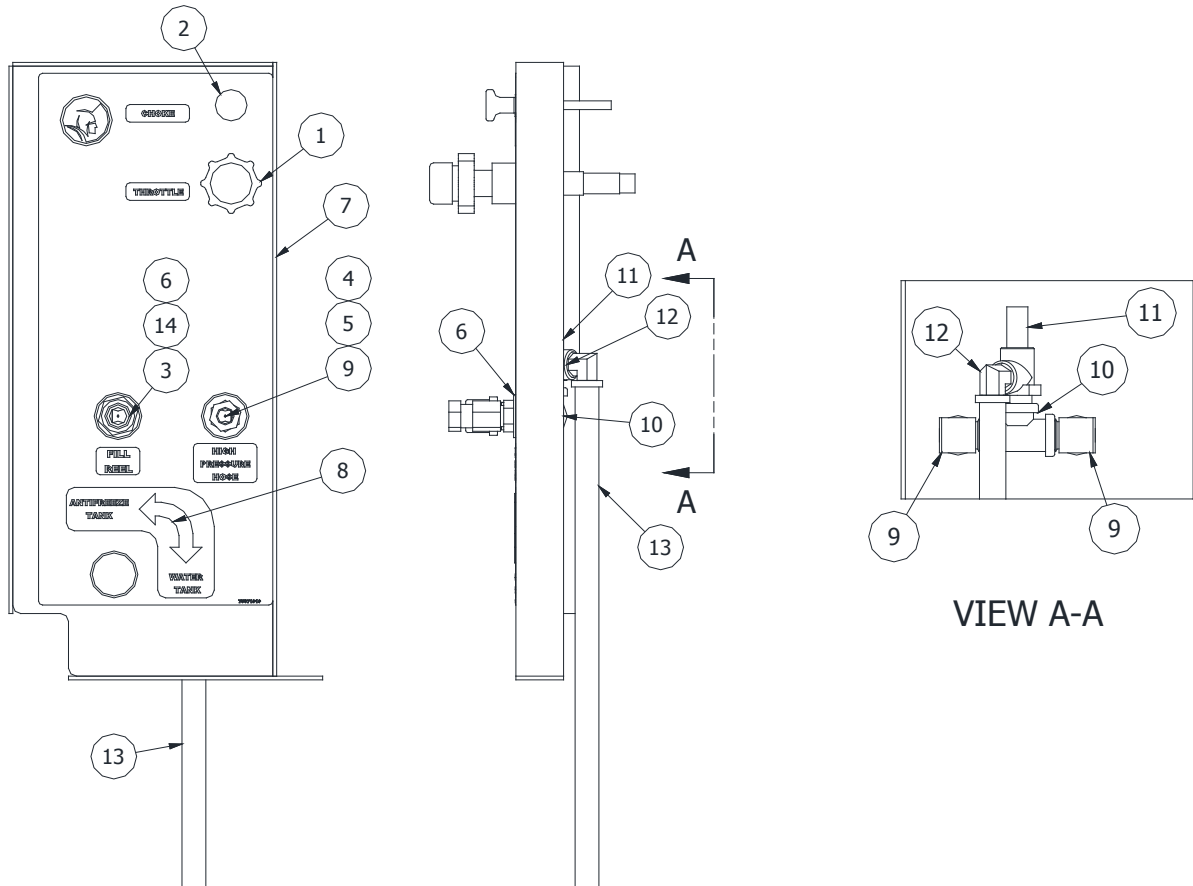
Soldier Reel Lock - 75879190 (Part of optional footage counter)



Item	Part Number	Description	Qty.
1	75810100	Bracket	1
2	75810100	Roll Pin	1
3	75810100	Spring	1
4	75879195	Soldier Handle	1
5	02881900	Pin, Roll 1/4 Dia. x 1-3/4	1

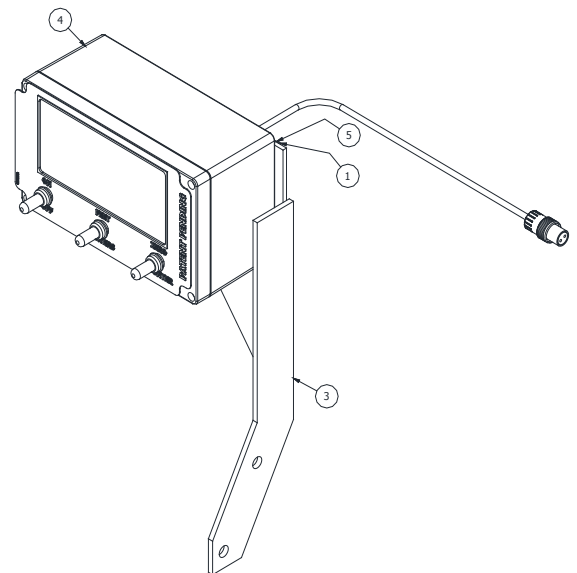
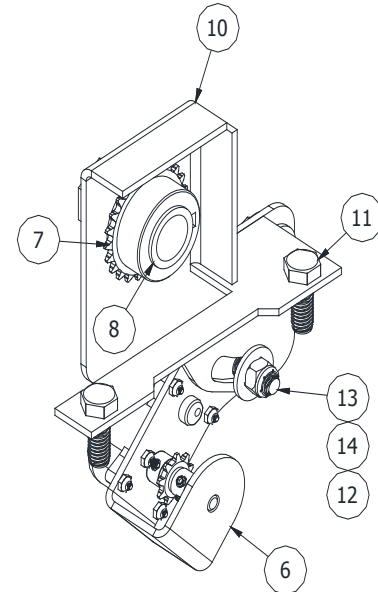
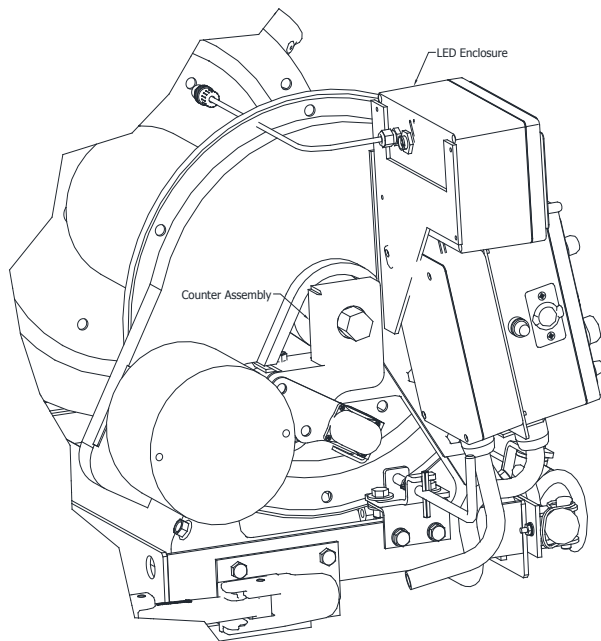


Recirculation/Throttle Assembly - 75871000



Item	Part Number	Description	Qty.
1	74026400	Vernier Throttle Control	1
2	75807400	Choke, Cable	1
3	75848020	Nipple, Hex 1/2 Brass	1
4	75853330	3/8" Swivel Fitting, Steel	1
5	75853340	Reducing Nipple, 1/2" to 3/8"	1
6	75868880	Washer, 7/8" ID x 1-3/8" OD	2
7	75869400	Wldmnt, Recirc/Throttle - 2014	1
8	79904464	St. Elbow 90° 1/2 NPT Brass	1
10	79904466	Tee, 1/2" NPT Brass	1
11	79904475	Valve, Relief	1
12	79904478	Elbow, 90° 1/2 NPT-Barb Brass	1
13	79904483	1/2" Push-On Hose	1
14	79904492	Adapter, Garden 3/4M -1/2FM	1

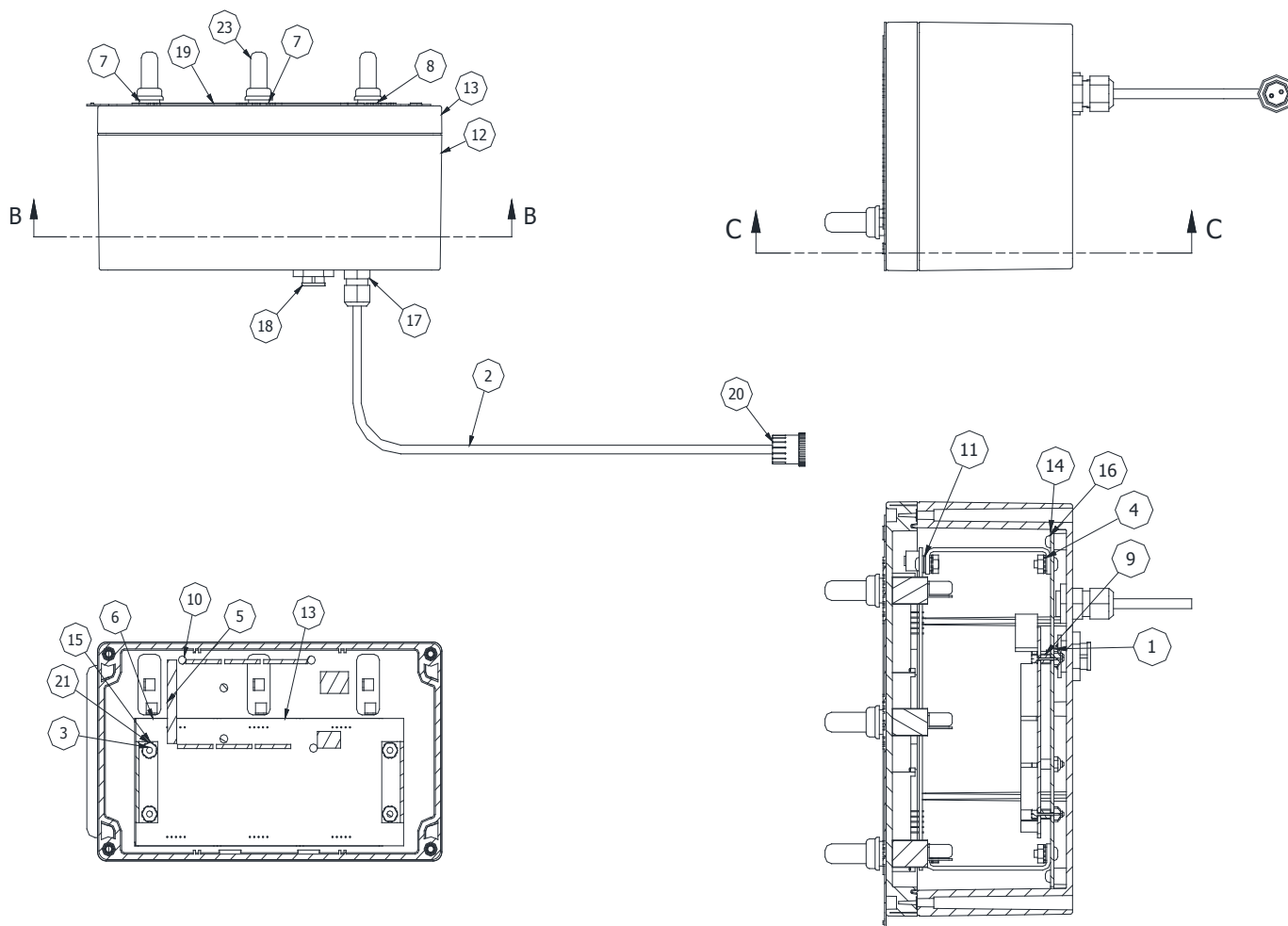
Optional Hose Footage Counter - 75875000



Item	Part Number	Description	Qty.
1	61026000	Screw, 6-32 x 1/2 Pan Hd Phil	4
2	73826800	Wire Loom, Black Plastic	5.5
3	75875010	Wldmnt, Soldier Counter Mnt	1
4	75875300	LED Enclosure Assy. - Hose Cntr	1
5	77789100	Nut, Kep 6-32 Zn Plt	4
6	75879100	Assy., Counter Carriage	1
7	75879150	Sprocket, 2 Bore 23 Tooth	1
8	75879170	Hand Crank Counter Nut	1
9	75879190	Assy., Soldier Reel Lock	1
10	75879230	Wldmnt, Soldier Swing Counter	1
11	77738100	Screw, Hex Hd 3/8-16 x 1	2
12	522122-00	Nut, Lock 5/16-18	2
13	00115100	Screw, Hex Hd 5/16-18 x 1	2
14	00162600	Washer, Flat 5/16 USS	4
15	75879180	Roller Chain, #25	14 in.
16	75879185	Master Link Roller Chain #25	1
17	75875850	Harness, Main Power Counter	1



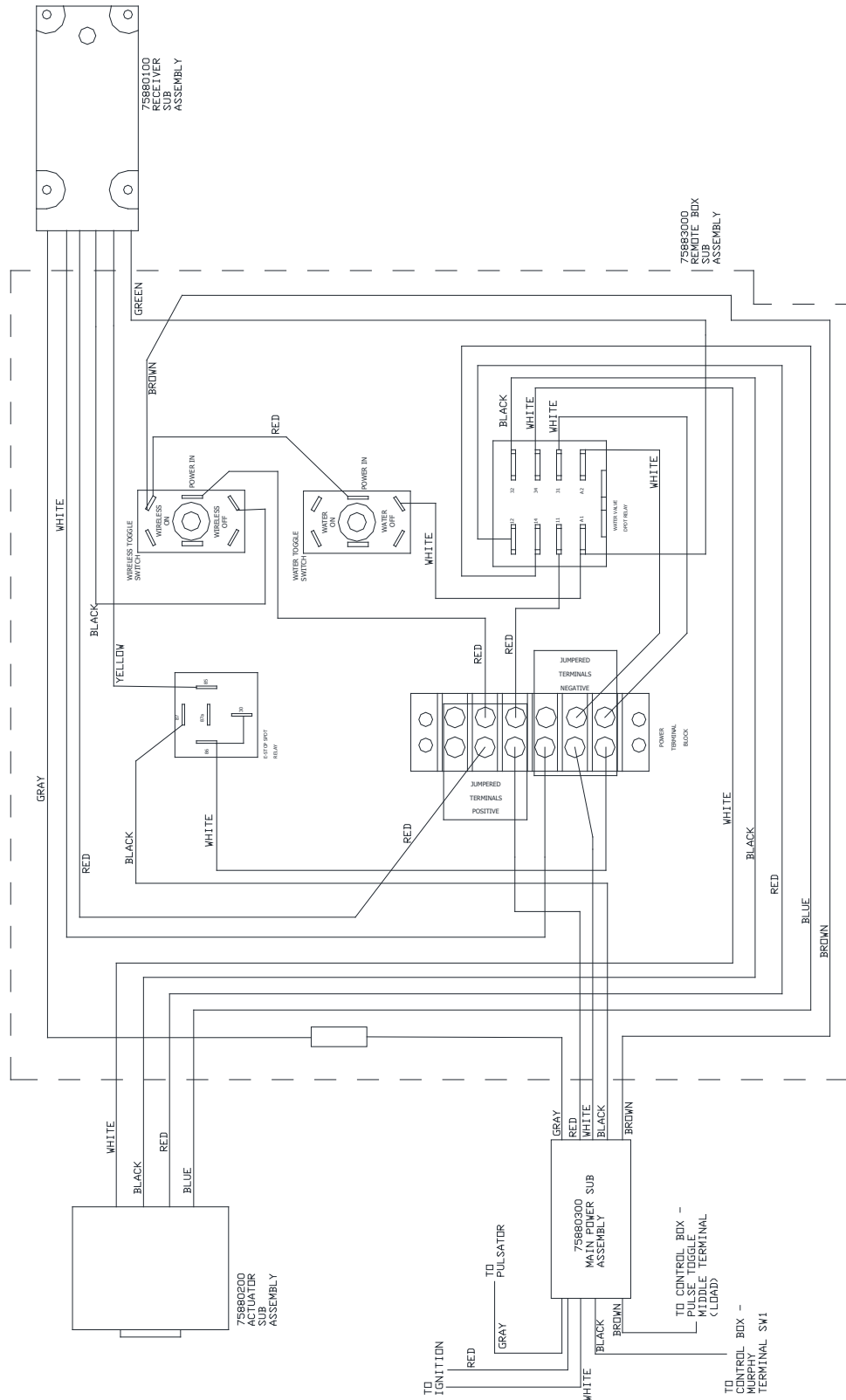
Optional Wireless Remote Control - 75880000



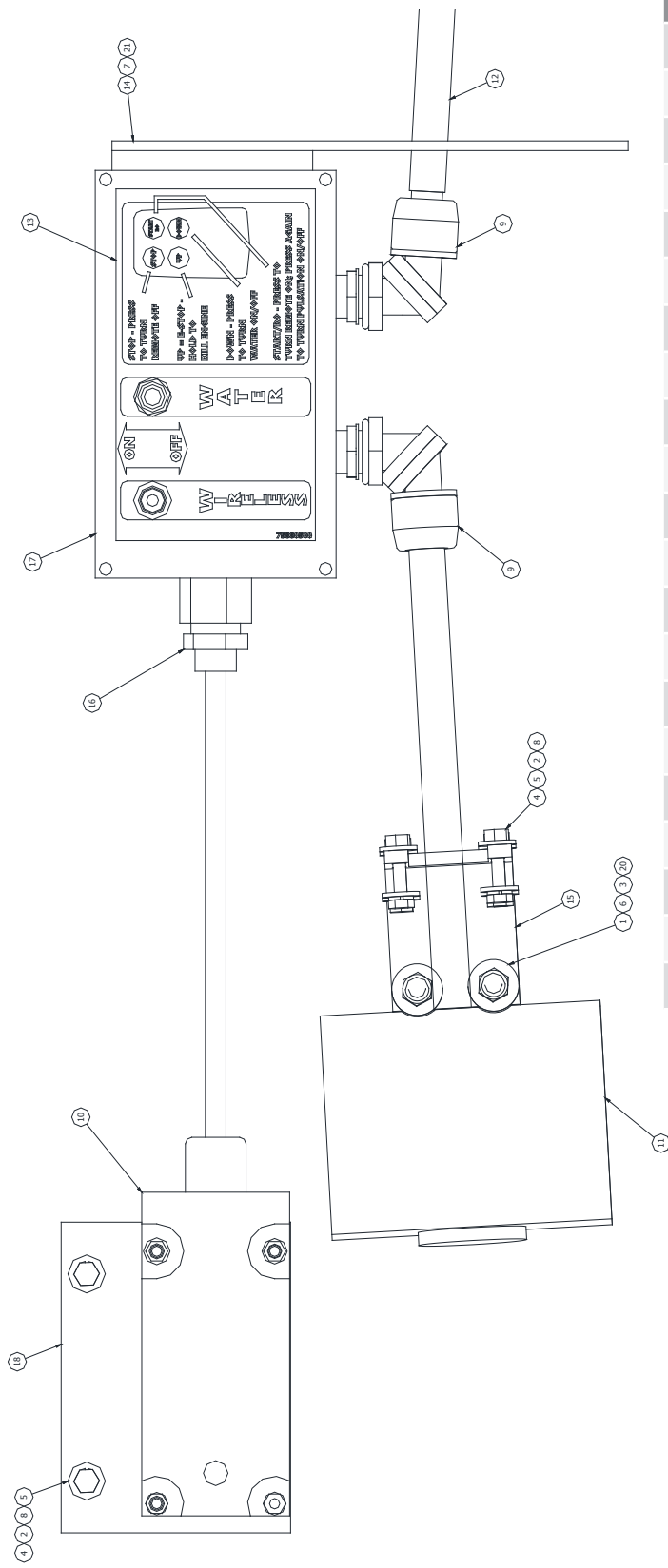
Item	Part Number	Description	Qty.
1	62018200	Nut, Hex Nylock 4-40	5
2	63014300	Cable, Multiconductor 20 Awg	1
3	64022925	Screw, 6-32 x 3/8" Bt Hd Blck	8
4	64022935	Washer, Lock #6 Alum	8
5	75875310	Arduino, Mega 2560 R3	1
6	75875320	Led, 2.3" Grn Display	3
7	75875330	Switch, On/Off	2
8	75875340	Switch, Toggle	1
9	75875370	Spacer, 3/16 OD x 3/16" Lng	5
10	75875380	Screw, 4-40 x 1/2" Sck Cap	5
11	75875390	Washer, #6 Plastic	8

Item	Part Number	Description	Qty.
12	75875400	Enclosure, Modified Clear	1
13	75875410	Circuit Board, LED Mount	1
14	75875420	Sub-Plate, LED Board Mount	1
15	75875430	Bracket, LED Board Mount	2
16	75875440	Screw, M3 x 8 - .5mm Pitch SS	4
17	75875450	Cord Grip, Liq .11-.26 Cord Dia	1
18	75875460	Connector, Panel 4Pos Sckt	1
19	75875600	Connector, Panel 4Pos Sckt	1
20	75875820	Connector, Panel 2Pos Sckt	1
21	77789100-s	Nut, Kep 6-32 Zn Plt	8
23	75875900	Boot, Toggle - Black	3

Optional Wireless Remote Control - 75880000

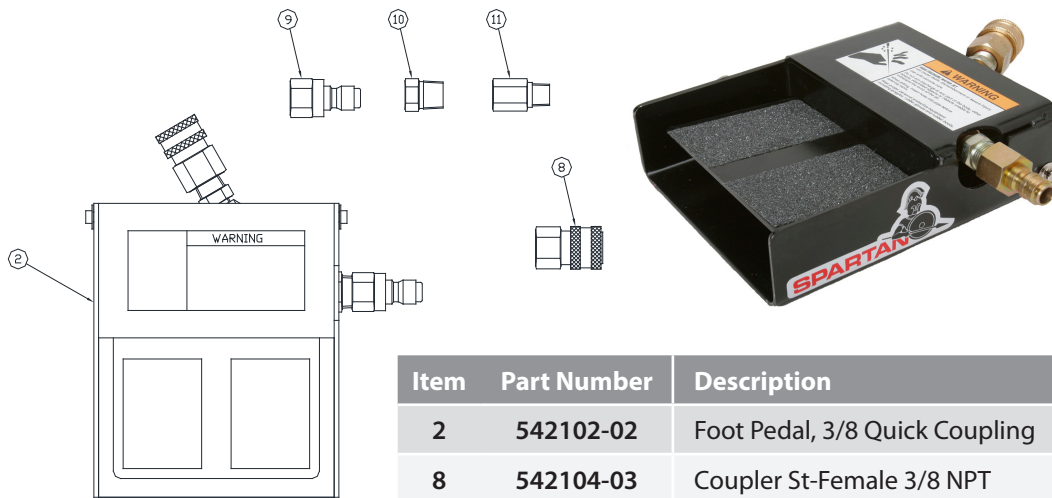


Optional Wireless Remote Control - 75880000



Item	Part Number	Description	Qty.
1	00162700	Washer, Flat 3/8	4
2	00165400	Washer, Lock Split 1/4	6
3	00165800	Washer, Lock Split 3/8	2
4	02821200	Nut, Nylock Jam 1/4-20	6
5	02825100	Washer, Flat 1/4 USS	12
6	522132-00	Nut, Nylon Locking 3/8-16	2
7	61026000	Screw, 6-32 x 1/2	4
8	71705500	Screw, Hex Hd 1/4-20 x 1-1/4	6
9	75857500	1/2" Swivel Connector, Liq Tight	2
10	75880100	Sub-Assy., Remote Receiver	1
11	75880200	Sub-Assy., Rmt Actuator Harness	1
12	75880300	Sub-Assy., Remote Main Power	1
13	75880500	Decal, Soldier Remote	1
14	75880600	Bracket, Soldier Remote Box	1
15	75881300	Bracket, Water Valve - Soldier Rmt	1
16	75882300	Cord Grip - 1/2" - .38-.44 Cord	1
17	75883000	Sub-Assy., 758 Remote Box	1
18	75883900	Plate, 758 Receiver Mount	1
19	77738800	Connector, Wire Splice	1
20	77759900	Screw, Cap Hex 3/8-16 x 1-1/4	2
21	77789100	Nut, Kep 6-32 Zn Plt	4

Optional Foot Pedal - 77773903



Item	Part Number	Description	Qty.
2	542102-02	Foot Pedal, 3/8 Quick Coupling	1
8	542104-03	Coupler St-Female 3/8 NPT	1
9	542302-05	Nipple, 3/8 St x 3/8 FNPT	1
10	542300-05	Bush, 3/8 MNPT x 1/4 FNPT	1
11	199106-04	Adpt., 1/2 FNPT x 3/8 MNPT	1

Optional Mobile Hose Reel - 73816800



Item	Part Number	Description	Qty.
1	75800405	Disc, Side HP Reel	2
2	75800404	Bearing, w/Ball Insert	2
3	73853200	Disc Washer	2
4	73828400	Tensioner, Cam Lock Brake	1
5	79827800	Plastic Handle w/Bolt & Nut	1
6	77752601	Handle Assy., Mobile Hose Reel	1





Soldier Accessories

Part Number	Description
02893400	1-1/2 Inch Flusher
02893500	2 Inch Flusher
02893600	4 Inch Flusher
02893700	6 Inch Flusher
02895300	3 Inch Flusher
44237200	Model 468 Root Cutter
44262200	Glove Liner Box of 50
44262305	Professional S & D Handbook
71109900	Tip Cleaner Set
71701700	Hose S.S. Trap 50'
71701800	Hose S.S. Trap 75'
71701900	Jet Head Brass Ball 1- 1/4" Dia x 1/8 NPT
71702900	Hose S.S. Trap 100'
71704300	Portable Hose Reels
73700100	Rocket Nozzle
73808600	3/8 x 250 ft. Hose
73808601	3/8 x 75 ft. Hose
73808602	3/8 x 150 ft. Hose
73808603	3/8 x 350 ft. Hose
73821500	3/8 x 15 ft. Orange Leader Hose
75827600	Nozzle Beacon Adapter
75875000	Hose Footage Counter
75880000	Wireless Remote Control
61023600	Beacon Assembly
73816800	Mobile Hose Reel
73820500	Grenade Nozzle
73817300	Wash Down Accessory Kit Includes *Items
*77799800	Hand gun Lance Vari-Nozzle Assembly
*77721400	Coupler, Quick Gun, Male
*77719501	1/4 x 75 ft. Hose
*77815800	1/4" Nozzle Domed (6)

Part Number	Description
75700200	Q-Nozzle 2-3000 PSI
75700300	Rotary Nozzle
75800800	Nozzle, Closed
75800900	Nozzle, Open
75831000	Warthog Nozzle (3" - 4" Lines)
75831010	Warthog Nozzle Service Kit
75831200	3000 PSI Performance Nozzle Kit
75832000	Nozzle, WTHG 4-8" 3K @12- 3/8"
77708700	1/4 x 100 ft. Hose
77719500	1/4 x 75 ft. Hose
77721800	0° Nozzle Lance
77724000	Reducer 1/2 x 3/8
77763700	Venturi Pump
77800600	Hose Guard (Tiger Tail)
79873500	Assy., Hose Anti-Turn Around
79922934	Nozzle, WTHG 2-4" 3K @ 8 - 3/8"
79944100	5/8" x 100' Tank Fill Hose
*77719400	1/4 x 50 ft. Hose
79968700	Sandshoe Nozzle
77773920	Hydro-Jet Foot Pedal (use with trap hose)
Model 468 Accessories	
*44236800	4" Tri-Blade Cutter
*44236900	6" Tri-Blade Cutter
*44237000	8" Tri-Blade Cutter
44260500	10" Tri-Blade Cutter
*44235100	4" Operating Skid
*44235200	6" Operating Skid
*44235300	8" Operating Skid
44260600	10" Operating Skid
*44236000	Installation Hardware
34003701	Leader Hose (Highly Recommended)

Tire Safety Instructions



TIRE WARRANTY REGISTRATION

To ensure warranty coverage and receive important safety updates, please register your new trailer or RV tires directly with the tire manufacturer within 30 days of purchase at: <https://www.tredittire.com/guarantees-simplified/>.

To register, provide your name, address, email, the manufacturer (Spartan Tool), the machine model (Soldier), number of tires (2), date of purchase, and the VIN of the unit.

This portion of the User's Manual contains tire safety information as required by 49 CFR 575.6.

The National Traffic Safety Administration (NHTSA) has published a brochure (DOT HS 809 361) that discusses all aspects of Tire Safety, as required by CFR 575.6. It can be obtained and downloaded, free of charge, from the NHTSA website.

Tire Safety Terminology Glossary

- **Cold tire inflation pressure** - the pressure in the tire before you drive
- **Gross Axle Weight Rating (GAWR)** - The maximum weight that any axle can support, as published on the Certification / VIN label on the front left side of the trailer. Actual weight determined by weighing each axle on a public scale, with the trailer attached to the towing vehicle.
- **Gross Vehicle Weight Rating (GVWR)** - The maximum weight of the fully loaded trailer, as published on the Certification / VIN label. Actual weight determined by weighing trailer on a public scale, without being attached to the towing vehicle.
- **Load rating** - The maximum load that a tire is rated to carry for a given inflation pressure.
- **Maximum load rating** - The load rating for a tire at the maximum permissible inflation pressure for that tire.
- **Maximum permissible inflation pressure** - The maximum cold inflation pressure to which a tire may be inflated.
- **Outer diameter** - The overall diameter of an inflated new tire.
- **Recommended inflation pressure** - The inflation pressure provided by the vehicle manufacturer on the Tire Information label and the Certification/VIN tag.
- **Rim** - a metal support for a tire or a tire and tube assembly upon which the tire beads are seated.
- **Vehicle maximum load on the tire** - The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight and dividing by two.

Tire Information Placard

The Spartan Soldier's Federal Certification/VIN label is located on the forward half of the left (road) side of the unit. The VIN label will identify the units GVWR and GAWR.

The weight of cargo should never exceed 771 KG or 1700 LB

ST205-75-R14(C)	350 KPA (50 PSI)
NONE	
NONE	

75866200

Tire Safety Information

The Spartan Soldier's Tire Information Placard can be located adjacent to the trailer's VIN (Certification) label at the left front of the trailer. The placard includes the Soldier's tire size, cold tire inflation pressure, and load limitations. The load limitation statement will give an indication of the maximum cargo capacity. Any items (cargo) added to the Soldier must not cause the total weight of the Soldier to exceed the stated GVWR.

Steps for Determining Correct Load Limit

1. Locate the statement "The weight of cargo should never exceed 771 kg or 1770 lbs" on your tire information placard.
2. This figure equals the available amount of cargo and luggage load capacity.
3. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity.

General Tire Information

- Tire inflation pressure is the level of air in the tire that provides the load-carrying capacity and affects the overall performance of the vehicle. The tire inflation pressure is a number that indicates the amount of air pressure a tire requires to be properly inflated. Since tires are designed to be used on more than one type of vehicle, tire manufacturers list the "maximum permissible inflation pressure" on the tire sidewall. This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.
- Improper inflation is the main cause of tire failure. Excessive loads and/or under inflation cause tire overloading, which leads to abnormal tire flexing. Check the cold tire inflation pressures at least once a week for proper inflation levels.
- The proper air pressure may be found on the Certification/VIN label and/or the Tire Information placard.
High speed towing in hot conditions degrades the life of the Soldier's tires. The internal heat generated from high speeds breaks down the tire's internal structure. It is recommended to drive at moderate speeds.
- If the trailer is stored for an extended period of time, the tires should be fully inflated to the maximum rated pressure. The Soldier should be stored in a cool, dry place. Use tire covers to protect the trailer tires from the harsh effects of the sun.

Tire Maintenance

Checking Tire Pressure

- The recommended tire inflation pressure that vehicle manufacturers provide reflects the proper PSI when a tire is cold. A cold tire is one that has not been driven on for at least three hours. Since driving raises the tires temperature, the internal air pressure also increases. To prevent inflated tire readings, the tire must be measured when cold.

Maintaining Proper Tire Pressure

- a. Locate the recommended tire pressure on the vehicle's tire information placard, certification label, or in the Owner's Manual.
- b. Record the tire pressure of all tires.
- c. If the tire pressure is too high in any tires, slowly release air by gently pressing on the tire valve stem with the edge of your tire gauge until the correct pressure is reached.
- d. If the tire pressure is too low, note the difference between the measured tire pressure and the correct tire pressure. Add the missing pounds of air pressure to each tire that is under inflated.
- e. Check all the tires to make sure they have the same air pressure.



NOTE: If the tires are warm due to driving, but testing confirms under inflation, fill the tire to the recommended cold inflation pressure. While the tire may be slightly under inflated due to extra pressure in the warm tire, it is safer to drive a slightly under inflated tire than to drive a significantly under inflated tire. Since this is a temporary fix, the tire must be re-checked and adjusted once a cold reading can be obtained.

Tire Safety Information

Tire Size and Tread

- Tires should be replaced when the tread is worn down 1/16 of an inch.
- Treadwear indicators on the bottom of the tire can be used as a guide. The indicators are raised sections spaced intermittently in the bottom of the tread grooves. If they appear even with the outside of the tread, the tire should be replaced.
- Replacement tires should be the same size as the Soldier's original tires. To prevent error and maintain safety, it is recommended that all replacement parts be purchased through Spartan Tool LLC. *Tire Balance and Wheel Alignment*
- Tires must be properly balanced to avoid vibrations and shaking of the trailer. A wheel alignment adjusts the angles of the wheels to position them correctly relative to the trailer's frame. Such adjustments can maximize the life of the tires, but should be performed by a qualified technician.

Tire Repair

- A punctured tire can be repaired by plugging the hole and patching the area that surrounds the puncture hole. A small puncture in the tire tread can be repaired, but punctures to the sidewall should not. Tires should be removed from the rim to be properly inspected before plugging.

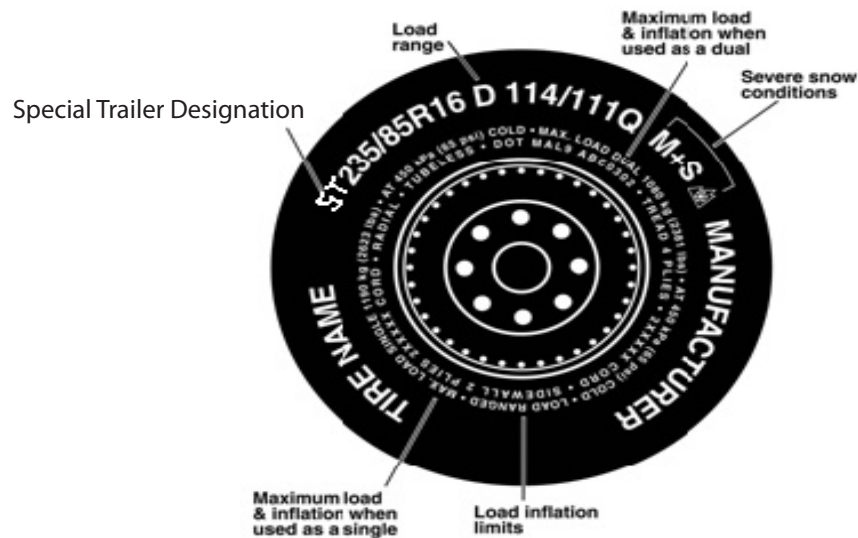


Fig. 36-1

Tire Fundamentals

- Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire. It also provides a tire identification number for safety standard certification and in case of a recall.

Tire Safety Tips

Preventing Tire Damage

- Slow down before driving over a pothole or other object in the road.
- Do not run over curbs or other foreign objects in the roadway.

Tire Safety Checklist

- Check tire pressure regularly (at least once a month).
- Inspect tires for uneven wear patterns on the tread, cracks, foreign objects, or other signs of wear or trauma.
- Remove bits of glass and foreign objects wedged in the tread.
- Make sure tire valves have valve caps.
- Check tire pressure before any long trips.
- Do not overload trailer. Check the Tire Information Placard for the maximum recommended trailer load.



Safety Information

Confirm that:

- The coupler is secured to the hitch and is locked.
- Electrical connections are made.
- There is appropriate slack in the safety chains.
- There is appropriate slack in the breakaway switch pull-pin cable.
- The tires are not visibly low on pressure, and the cargo is secure and in good condition.

Reporting Safety Defects

If you believe that your vehicle has a defect that could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Spartan Tool LLC.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Spartan Tool LLC.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153), go to <http://www.safercar.gov>; or write to

Administrator
NHTSA
1200 New Jersey Avenue S.E.
Washington, DC 20590

You can also obtain other information about motor vehicle safety from
<http://www.safercar.gov>.

Spartan Tool LLC
1618 Terminal Road
Niles, MI 49120

Warranty Information



For our terms and conditions, including warranty, please visit <https://spartantool.com/pages/terms-and-conditions>. For warranty assistance, please contact us at (800) 435-3866 or customerservice@spartantool.com.

CONTACT US

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Niles, MI 49120
800.435.3866
SpartanTool.com

Notes

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