

TORO[®]

MODEL NO. 41572

SET-UP AND
PARTS LIST**FOAM MARKER KIT**for **MULTI PRO® 5500, 1200, 1250 & 300T** Turf Sprayer

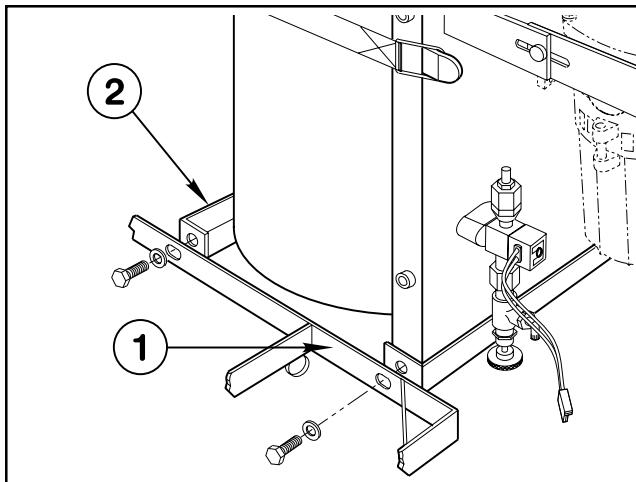
Refer to the illustrated Parts List for the details of parts used in assembling the FOAM MARKER KIT.

NOTE: "RIGHT" and "LEFT", "FRONT" and "REAR" reference the operator's directions when seated in the normal operating position.

NOTE: If installing this Kit on a vehicle equipped with the "Enclosed Boom System", work these instructions with the "Enclosed Boom System" Set up and Parts Manual.

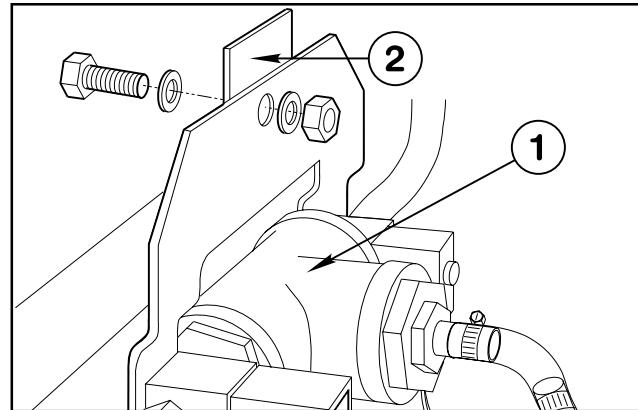
SET-UP FOR THE MULTI PRO® 5500

1. Remove four (4) 1/4" x 1" cap screws and flatwashers holding Cover to the Tank/Compressor Assembly. Remove Cover. Set cover and fasteners aside for future reinstallation.

**Fig. 1**

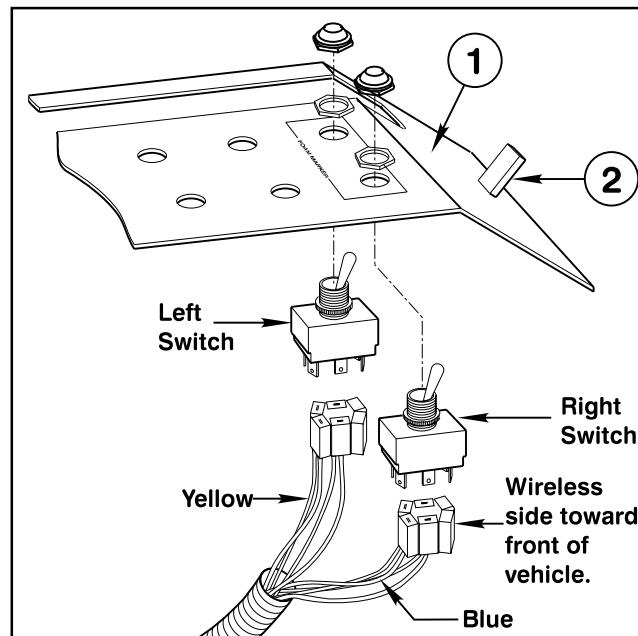
1. Vehicle's Right Step Frame
2. Tank Ass'y Frame

2. Mount Tank/Compressor Assembly to right vehicle step frame using two (2) 3/8" x 1" hex hd. cap screws and flatwashers. Fasteners must be installed from the backside of the step frame. (Fig. 1)

**Fig. 2**

1. Mixer Tee Ass'y
2. Center Boom Angle

3. Mount Mixer Assembly to angle on Center Boom Assembly with a 3/8" x 1" hex hd. cap screw, flatwasher, and locknut. Tighten securely. (Fig. 2)

**Fig. 3**

1. Switch Panel Ass'y
2. Panel Release Latch

4. Release the latch and remove the Switch Panel Assembly from the Center Console Assembly. (Fig. 3)

5. Remove Foam Marker Switch hole plugs. Install Foam Marker Boom Switches into Switch Panel Assembly. Install the protective rubber boots over the switches. NOTE: When installing switches, index switches as shown in Fig. 3.

6. Locate Wiring Harness and make the connections to the Compressor and Solenoid located at the Foam Tank/Compressor Assembly. NOTE: BOTH PLUG CONNECTIONS ARE THE SAME. (Fig. 4)

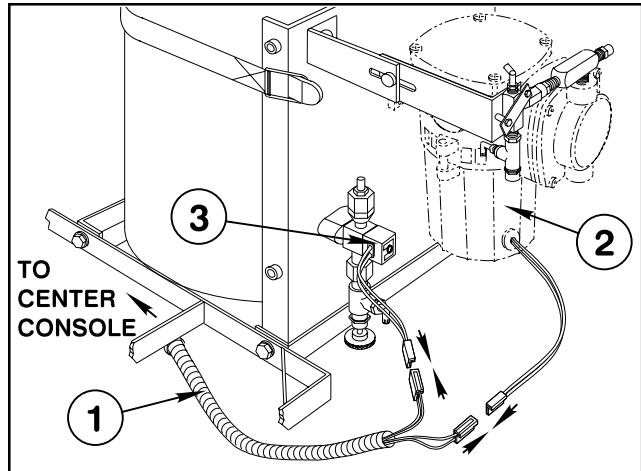


Fig. 4

- | | |
|-------------------|-------------|
| 1. Wiring Harness | 3. Solenoid |
| 2. Compressor | |

7. Route front half of wiring harness forward along the right side of the main frame, following the main wiring harness through the cable rings to the Center Console.

8. Plug the harness connectors to the Foam Marker Switches as shown in Fig. 3. Connector with blue wire plugs onto right boom switch, and connector with yellow wire plugs onto left boom switch.

9. Route the power and Ground Wires to the fuse block and Ground Terminal Block, but **DO NOT MAKE THESE ELECTRICAL CONNECTIONS AT THIS TIME!**

10. Reinstall Switch Panel Assembly to Center Console and secure latch.

11. Route rear section of harness rearward along the right side of the main frame to the Mixer Assembly, following the main vehicle wiring harness through the cable rings.

12. Plug the harness connectors into the Boom Solenoid Assemblies. Plug connector with blue wire to the right solenoid and connector with yellow wire to the left solenoid. (Fig. 5)

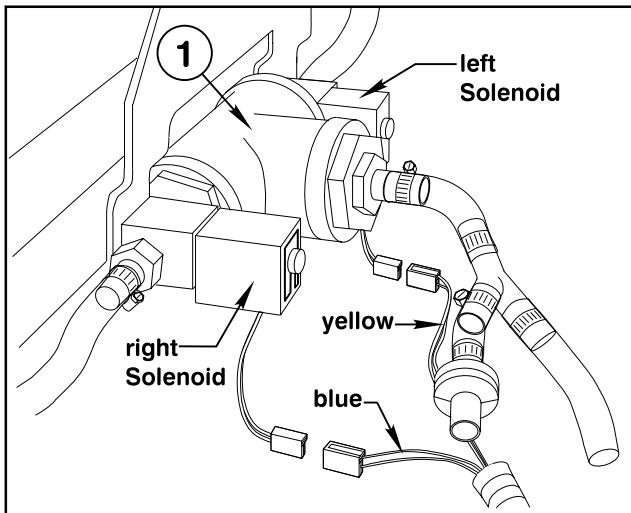


Fig. 5

1. Mixer Tee Ass'y

Note: If installing Foam Marker Kit on a previously set-up Sprayer, steps 13 thru 18 may require some disassembling of the Boom Assembly. See Sprayer set-up section of the **MULTI PRO® Turf Sprayer Operator's Manual.**

13. Locate, mark, and drill, (DRILLING THROUGH THE TOP SURFACE ONLY,) one 5/8" dia. hole at 1-1/2" from the plugged end of the right Boom Pipe. Repeat on left Boom Pipe. These holes are used for the installation of the Boom Hoses. (Fig. 6)

14. Using a round file or deburring tool, deburr holes previously drilled into Boom Pipes. (Fig. 6)

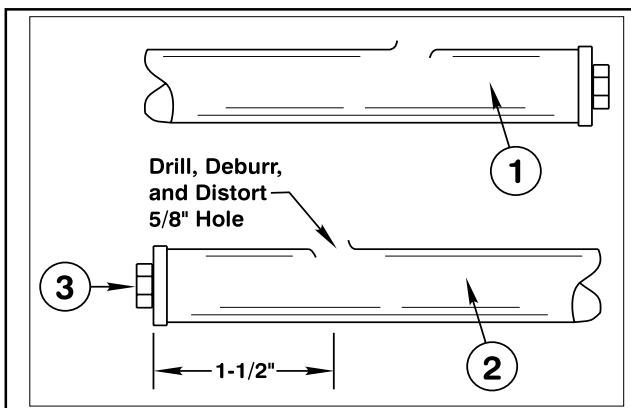


Fig. 6

- | | |
|--------------------|--------------|
| 1. Left Boom Pipe | 3. Boom Plug |
| 2. Right Boom Pipe | |

15. Insert a drift punch into the 5/8" holes in Boom Pipes and distort opening as shown in Fig. 6. This will allow for easier installation of the Boom Hoses.

16. Insert Boom Hose into 5/8" hole drilled in Boom Pipe, and push it into Boom Pipe until 2-3 inches of Boom Hose is extending beyond the opposite end of the Boom Pipe. (Fig. 7)

17. Replace the solid Boom Caps with the Punched Hole Boom Caps that are provided in Foam Marker Kit. (Fig. 7)

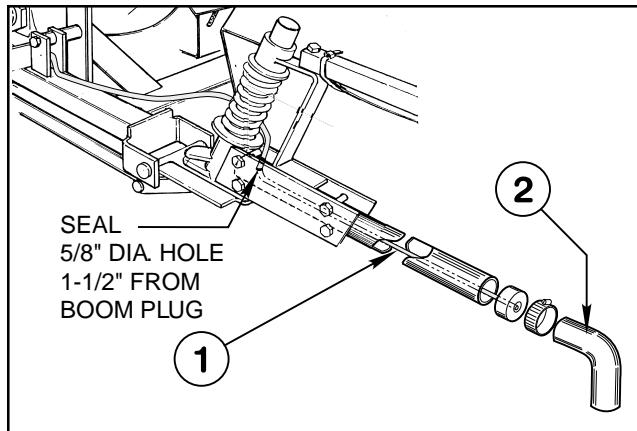


Fig. 7

1. Foam Marker Hose 2. Extension Hose

18. Lubricate the inside of the Extension Hose and slide it over the Cap and Foam Marker Hose and onto the Boom Pipe. Secure with hose clamp. (Fig. 7)

NOTE: Seal the 5/8" holes on each Boom pipe with RTV silicone after the hoses and Boom pipes are completely assembled.

IF SETTING UP FOAM MARKER KIT DURING INITIAL SET-UP OF THE MULTI PRO® TURF SPRAYER REFER TO THE SET-UP INSTRUCTIONS SUPPLIED WITH THE VEHICLE FOR THE FINAL ASSEMBLY INSTRUCTIONS OF THE BOOMS. BEFORE CONTINUING WITH STEP #19

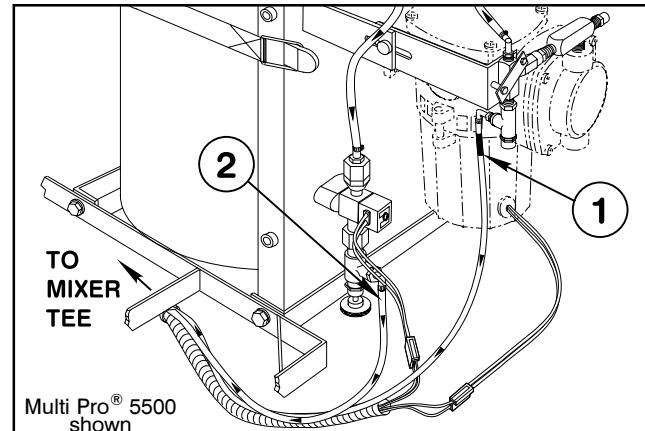


Fig. 8

1. Compressor Hose 2. Needle Valve Hose

19. Mark one 108" Supply Hose with a black marker at each end. Connect the marked Supply Hose to the hose barb at the compressor and the other Supply Hose to the hose barb on the Needle Valve. Secure with hose clamps. (Fig. 8)

20. Route both Supply Hoses rearward along the right side of the vehicle frame to the Mixer Tee through the cable rings following the Foam Marker Wiring Harness. There are no cable rings on the 300T Trailer Sprayer.

21. Slide the marked Supply Hose onto the barb on the Check Valve located at the Tee Assembly. Connect the other Supply Hose to the barbed "Y" at the Tee Assembly. Secure with hose clamps. Verify that the marked Supply Hose is connected at the Compressor and the Check Valve. If not, correct before using. (Fig. 9)

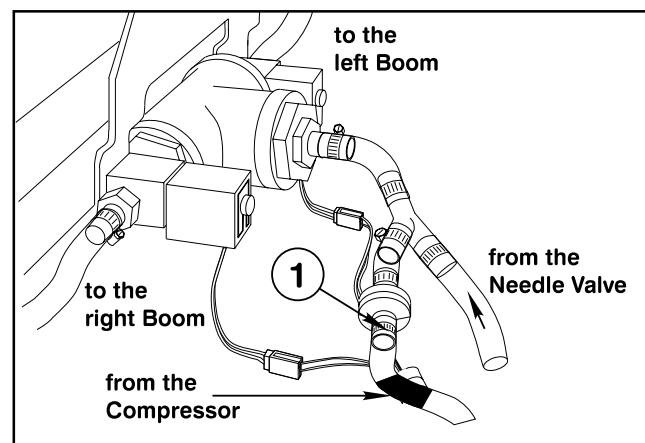


Fig. 9

1. Check Valve

22. Connect the right Boom Hose to the right side Solenoid Valve Assembly and the left Supply Hose to the left side Solenoid Assembly. Secure both hoses with hose clamps. (Fig. 9)

23. Connect the ring terminal on the black wire of Wiring Harness to the Ground Terminal Block. (Fig. 10)

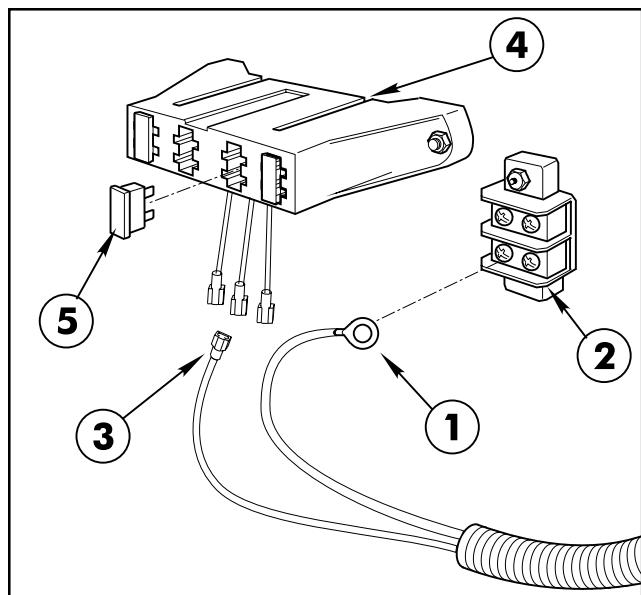


Fig. 10

- | | |
|--------------------------|----------------|
| 1. Black Wire Terminal | 4. Fuse Block |
| 2. Ground Terminal Block | 5. 20 amp Fuse |
| 3. Red Wire Terminal | |

24. Connect the push-on terminal on the red wire of Wiring Harness to the male terminal on the red wire coming from the Fuse Block. Insert the 20 amp Fuse into the Fuse Block. (Fig. 10)

25. Attach cover to the Tank/Compressor Assembly using the four (4) 1/4" x 1" hex hd. cap screws and flatwashers removed earlier.

26. Close the Foam Density Adjustment Valve completely.

27. Refer to the Operator's Instructions for proper operating procedures.

SET-UP FOR THE MULTI PRO® 1250

1. Remove four (4) 1/4" x 1" cap screws and flatwashers holding Cover to the Tank/Compressor Assembly. Remove Cover. Set Cover and fasteners aside for future reinstallation.

2. Mount Bracket to right side of Vehicle above Battery, (see Fig. 11) using (4) 3/8" x 1" hex hd. cap screws and flange lock nuts. Attach Tank/Compressor Assembly to Bracket using (2) 3/8" x 1" hex hd. cap screws and flatwashers.

3. Route Suction Hose as shown in Fig. 11.

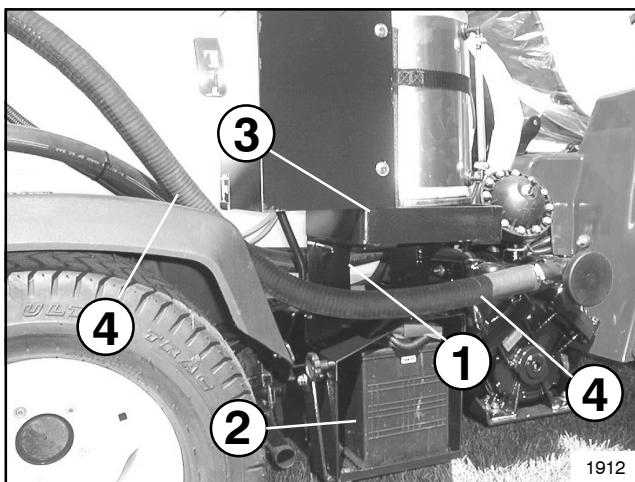


Fig. 11

- | | |
|------------|-----------------------------|
| 1. Bracket | 3. Tank/Compressor Assembly |
| 2. Battery | 4. Suction Hose |

4. Mount Mixer Assembly to angle on Center Boom Assembly with a 3/8" x 1" hex hd. cap screw, flatwasher, and locknut. Tighten securely. (Fig. 12)

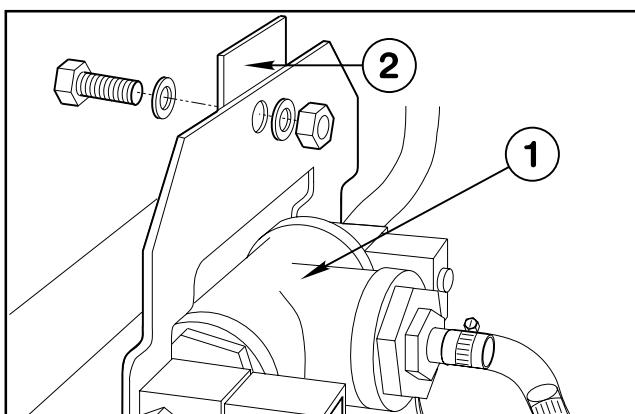


Fig. 12

- | | |
|--------------------|----------------------|
| 1. Mixer Tee Ass'y | 2. Center Boom Angle |
|--------------------|----------------------|

5. Remove the five screws and lift the Spray Control Panel to expose the bottom side.

6. Lift and remove the two plugs from the Spray Control Panel on the vehicle and install the two Rocker Switches provided in their place. Insure their orientation matches the orientation in Fig. 13, with the notch to the rear of the Vehicle. This notch indicates the end of the switch to which the locking Arm will mate.

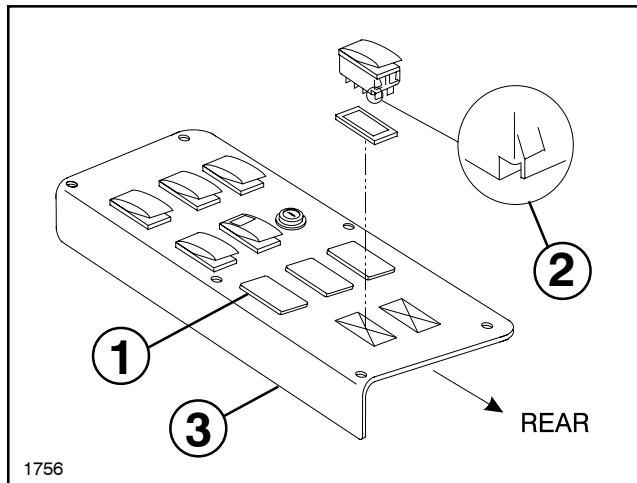


Fig. 13

1. Plug
2. Notch (at back)

3. Spray Control Panel

7. Locate Wiring Harness and make the connections to the Compressor and Solenoid located at the Foam Tank/Compressor Assembly. **NOTE: BOTH PLUG CONNECTIONS ARE THE SAME.** (Fig. 14)

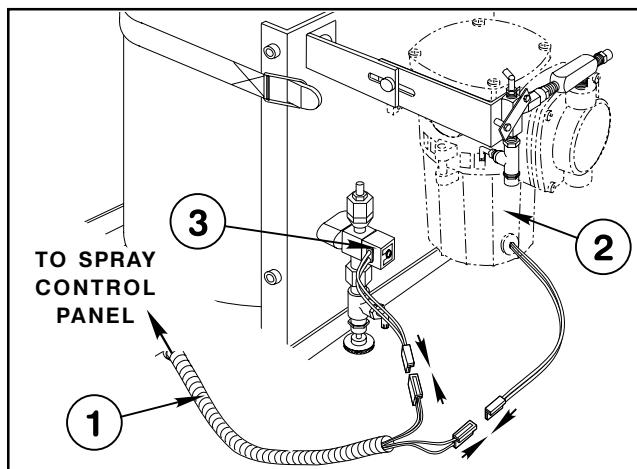


Fig. 14

1. Wiring Harness
2. Compressor

3. Solenoid

8. Route front half of wiring harness forward along the right side of the main frame. From within the Seat Base compartment, route the Connector Housings through the two holes in the Right Hand Inner Fender Panel and up into the Console area.

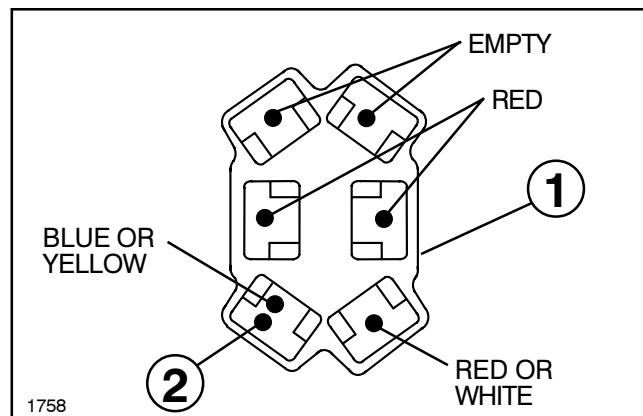


Fig. 15

1. Connector

2. Socket

9. Using the Harness Extension, plug the 1/4" spade Terminals into the main Foam Marker Harness Plug Connector. Plug the Red Leads into the center sockets as shown in Fig. 15. Insert the White Lead into the corner socket with the Red or White wire. Plug the Remaining Yellow w/Blue Stripe wire into the other corner socket, (this socket will have a Blue or Yellow wire). Repeat this step for the other Plug. Connect the Connector Housings to their respective switches in Spray Control Panel (Yellow to L. H. Switch & Blue to R. H. Switch).

10. Route the power and Ground Wires to the fuse block and Ground Terminal Block, but **DO NOT MAKE THESE ELECTRICAL CONNECTIONS AT THIS TIME!**

11. Reinstall the Spray Control Panel to the Seat Base and secure with the five screws removed earlier.

CONTINUE INSTALLATION OF FOAM MARKER BY FOLLOWING INSTRUCTIONS IN PARAGRAPHS 11 THROUGH 27 ON PAGES 2 THROUGH 4 OF THIS PUBLICATION.

SET-UP FOR THE 300T

1. Remove four (4) 1/4" x 1" cap screws and flat washers holding Cover to the Tank/Compressor Assembly. Remove Cover. Set Cover and fasteners aside for future reinstallation.

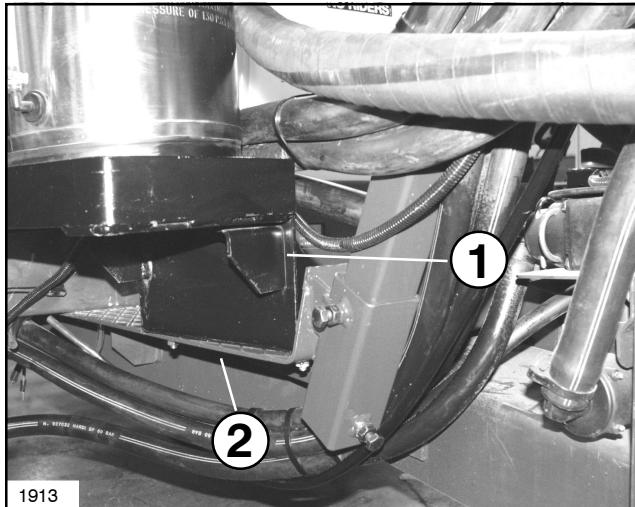


Fig. 1

1. Mounting Bracket 2. Floor Plate

2. Using the Mounting Bracket, (#100-8624 as a Template) center punch and then drill (4) four 13/32" dia. holes in the front, right corner of the Floor Plate of the Trailer. Make sure the holes are not in the location of the cross gussets under the Floor Plate. See FIG. 1.

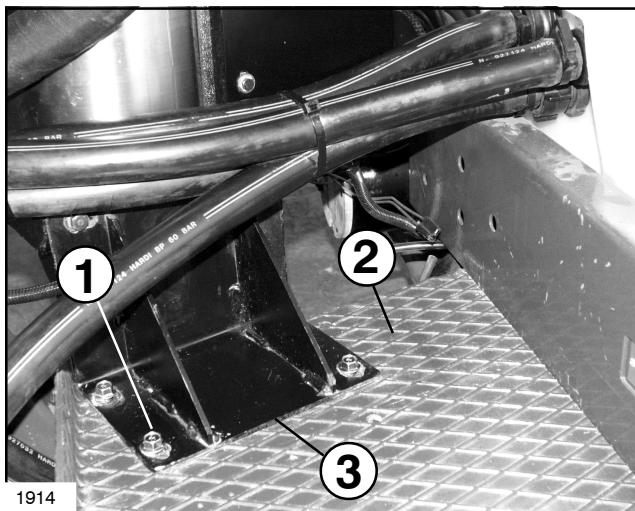


Fig. 2

1. 3/8" X 1" Cap Screw 2. Floor Plate
3. Mounting Bracket

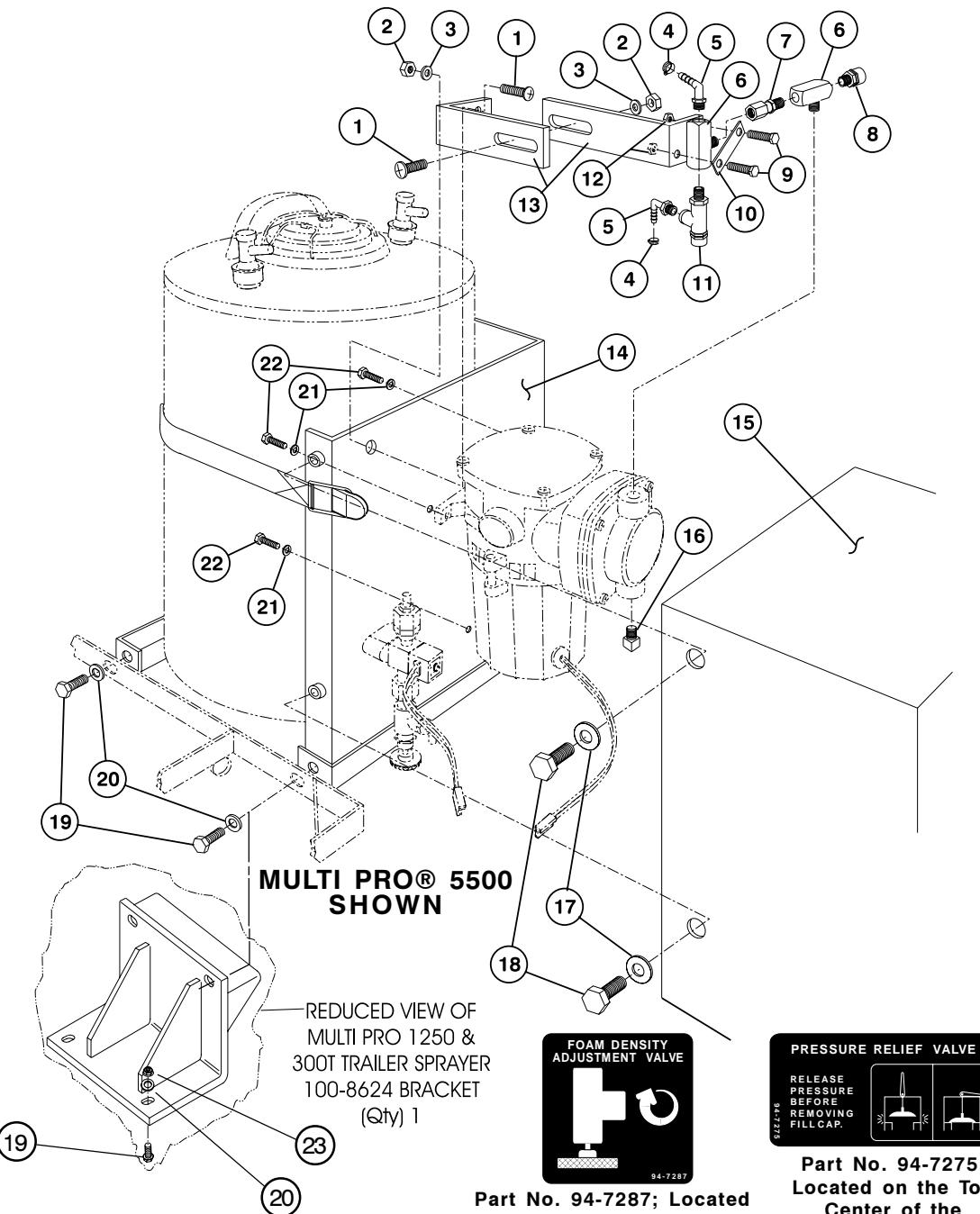
3. Mount the Mounting Bracket using four (4) 3/8" x 1" hex hex head cap screws, four (4) 3/8" washers, and four (4) flange lock nuts. See FIG. 2.

4. Mount Tank/Compressor assembly to Mounting Bracket using two (2) hex head cap screws and two (2) washers. Fasteners must be installed from the backside.

5. Route remaining section of the harness rearward along the right side of the main frame to the Mixer Assembly.

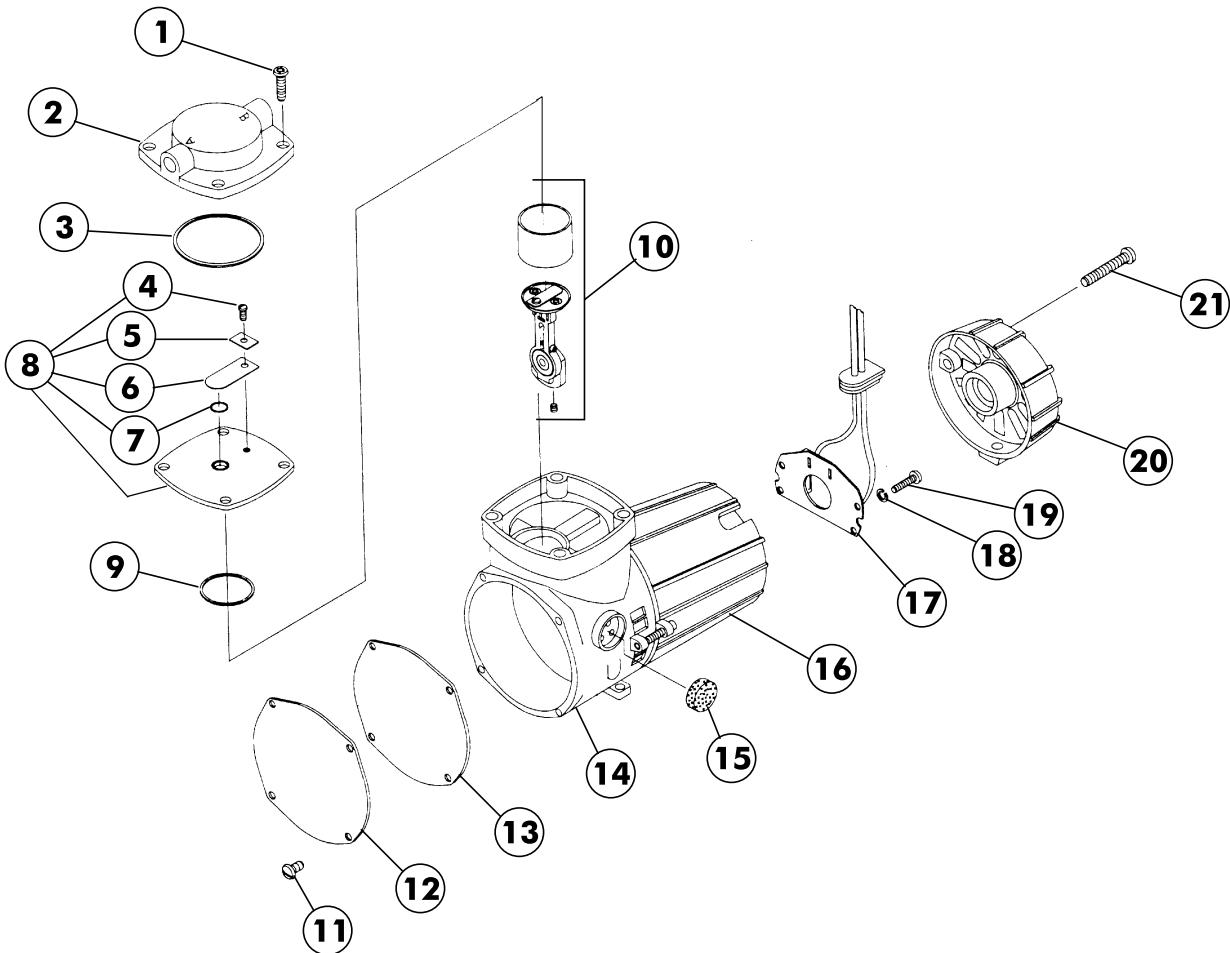
CONTINUE INSTALLATION OF FOAM MARKER BY FOLLOWING INSTRUCTIONS IN PARAGRAPHS 12 THROUGH 22 AND 25 THROUGH 27 ON PAGES 2 THROUGH 4 OF THIS PUBLICATION.

NOTES:



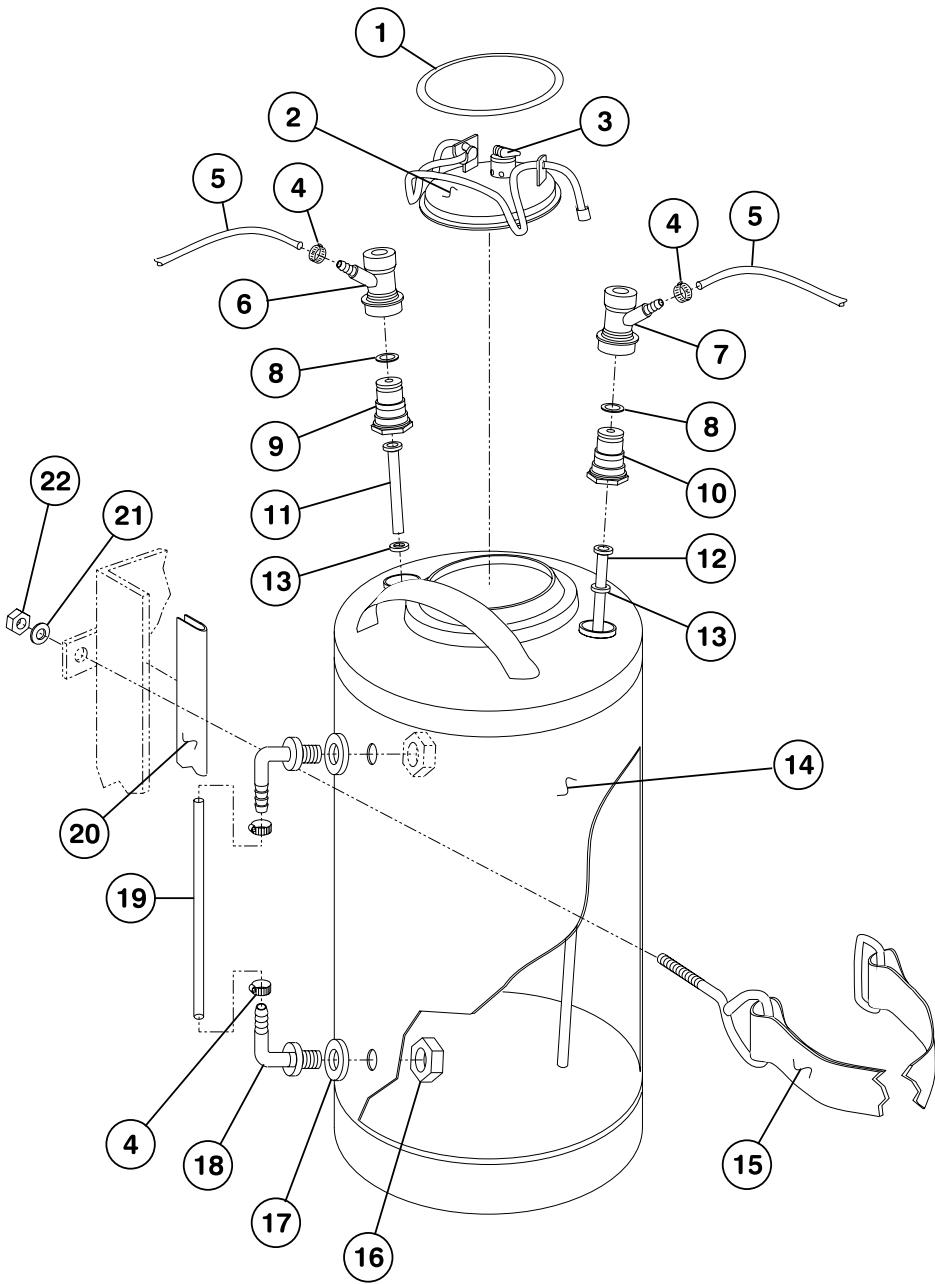
Ref.	Part No.	Description	Qty
1	3230-1	Carriage Bolt, 5/16"	2
2	32153-3	Lock Nut, 5/16" NC	2
3	3256-3	Flat Washer, 5/16"	2
4	97406	Hose Clamp	2
5	94-7221	90° Hose Barb, 1/4" MPT x 1/4" HB	2
6	94-7219	Tee, 1/4" Male Branch (brass)	2
7	94-7199	Inline Check Valve	1
8	94-7197	Relief Valve	1
9	321-8	HHCS, 1/4" x 1-1/4"	2
10	94-7268	Support Strap	1
11	94-7198	Side Outlet Relief Valve	1

Ref.	Part No.	Description	Qty
12	32153-4	Lock Nut, 1/4"	2
13	94-7267	Support Bracket	2
14	94-7260	Tank Bracket Welded Ass'y	1
15	94-7271	Cover, Complete	1
16	9901	Pipe Plung, 1/8"	1
17	3256-2	Flat Washer, 1/4"	4
18	321-6	HHCS, 1/4" x 1"	4
19	323-6	Cap Screw, 3/8" x 1"	6
20	3256-4	Flat Washer, 3/8" USS	6
21	3253-17	Lock Washer, #10	3
22	32144-87	Self Tapping Screw, #8 x 1/2"	3
23	32128-43	Flange Lock Nut	4



COMPRESSOR (#94-7200)

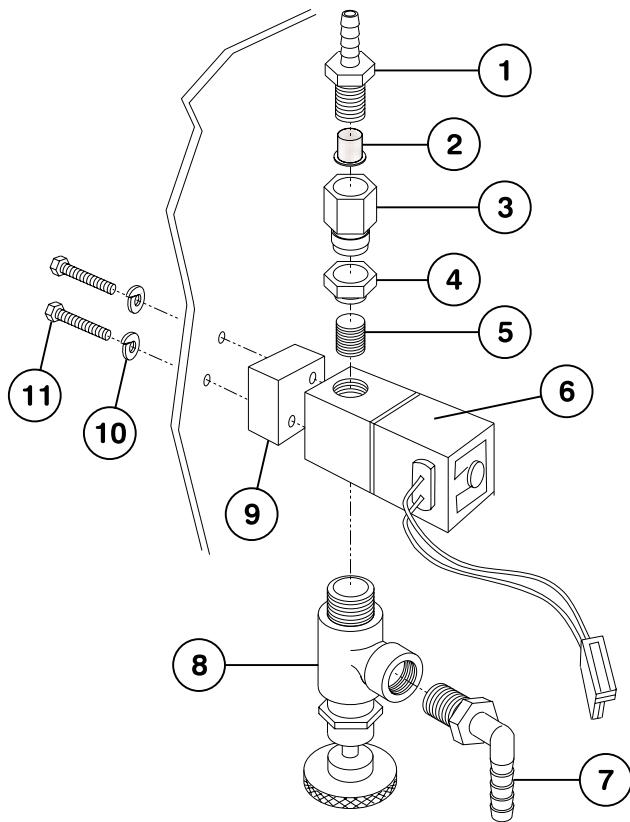
Ref	Part No.	Description	Qty	Ref	Part No.	Description	Qty
1	93-6216	Screw - Head	4		93-6236	Set Screw - Ecc.	AR
2	93-6217	Head	1		93-6230	Connecting Rod Assembly	AR
3	93-6215	O-Ring - Head	1		93-6237	Screw - Connecting Rod	AR
4	93-6223	Screw - Flapper	1	11	93-6225	Screw - Front Cover Ass'y	4
5	93-6220	Valve Keeper	1	12	93-6224	Front Cover	1
6	93-6221	Valve Flapper	1	13	93-6226	Front Cover Gasket	1
7	93-6222	O-Ring Flapper	1	14	93-6228	Housing	1
8	93-6219	Valve Plate Assembly	1	15	93-6212	Air Filter Felt	1
9	93-6218	O-Ring - Valve Plate	1		93-6211	Motor Shell Housing & Magnet Ass'y	
10	93-6211	Conn. Rod, Hold Down Plate & Ecc. Assembly	1	16	93-6227	Ass'y	1
	93-6233	Piston Sleeve	AR	NS	93-6234	Screw - Mtr. Shell to Hsg.	2
	93-6239	Int. Valve Flapper (Bent)	AR	NS	93-6231	Armature, Fan & Bearing Assembly	AR
	93-6235	Screw - Flapper (Int.)	AR	17	93-6210	Brush Card Assembly	1
	93-6232	Eccentric & Bearing Assembly	AR	18	93-6209	Lockwasher - Brush Card	2
				19	93-6208	Screw - Brush Card	2
				20	93-6213	Motor End Cap Assembly	1
				21	93-6214	Screw - Motor End Cap	2



TANK ASS'Y (94-7252)

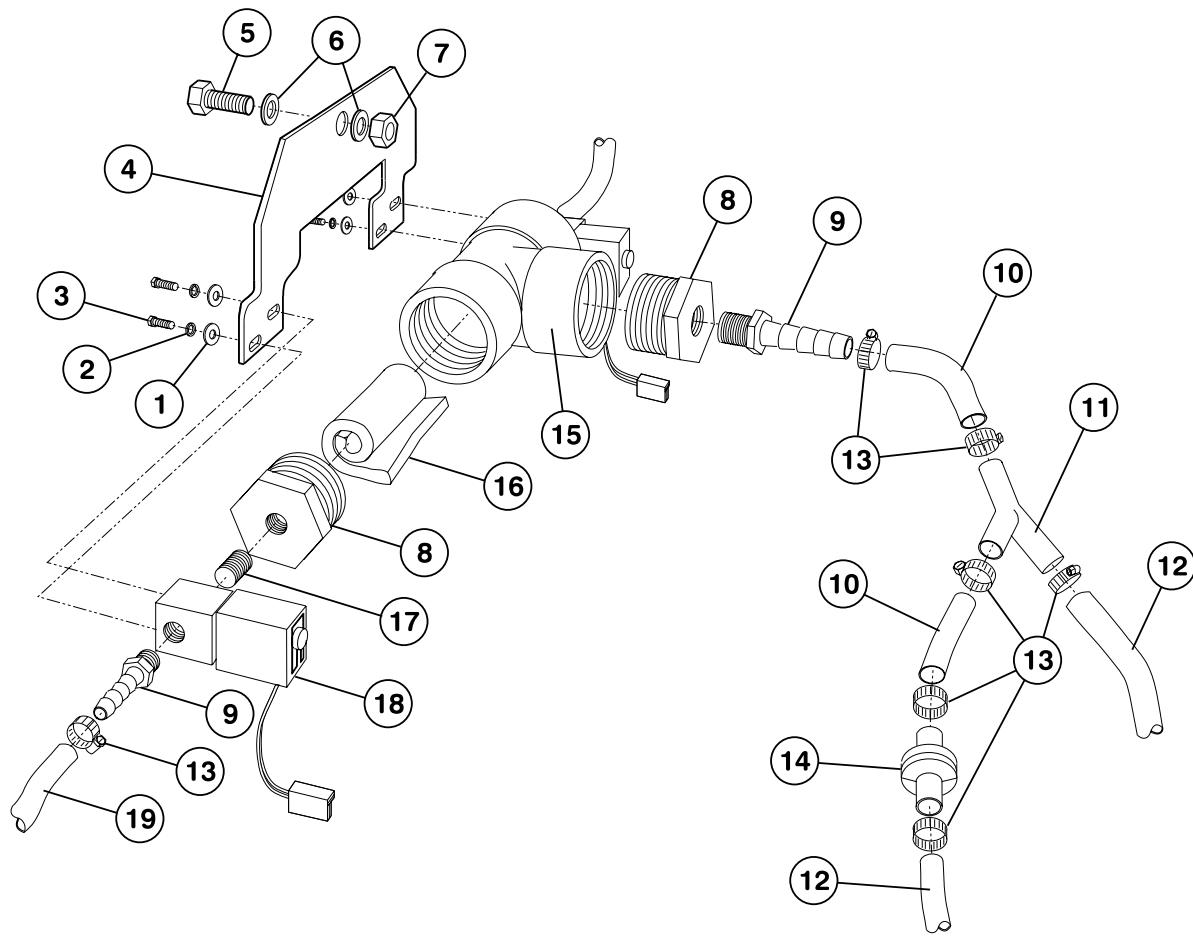
Ref	Part No.	Description	Qty	Ref	Part No.	Description	Qty
1	94-8544	Lid Gasket	1	12	94-8551	Metal Dip Tube, 14"	1
2	94-8545	Tank Lid	1	13	94-8552	Tube "O" Ring	2
3	94-8546	Relief Valve	1	14	94-7253	Tank, 3 Gal. (11.36 liter)	1
* 4	97406	Hose Clamp	4	15	762035	Strap	1
5	94-7258	Supply Hose	2	* 16	94-7255	Fitting Nut	2
6	94-7193	Quick Connector, Gas (gray)	1	* 17	94-7256	Hose Washer	2
7	94-7194	Quick Connector, Liquid (black)	1	* 18	94-7254	90° Hose Barb, 1/4" MPT	2
8	94-8547	Plug "O" Ring	2	* 19	94-7257	Sight Hose	1
9	94-8548	Inlet Plug, 1-5/32"	1	20	94-7259	Trim Strip	2
10	94-8549	Outlet Plug, 1-5/32"	1	21	3256-2	Flat Washer, 1/4"	1
11	94-8550	Metal Inlet Tube, 1-3/16"	1	22	32153-4	Lock Nut, 1/4"	1

* Items included with Part No. 94-7253



NEEDLE VALVE ASSY (94-7270)

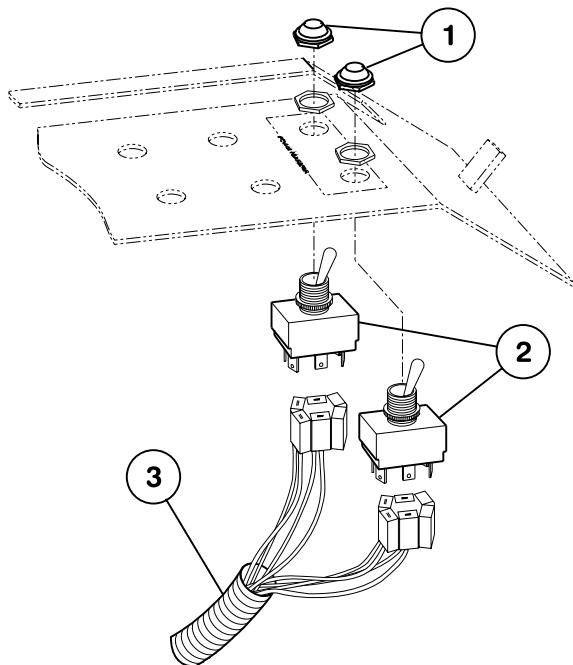
Ref	Part No.	Description	Qty
1	94-7220	Hose Barb, 1/8" MPT x 1/4" HB	1
2	94-7228	Strainer	1
3	94-7229	Nozzle Body	1
4	94-7230	Nozzle Adapter	1
5	94-7224	Nipple, 1/8" close brass	1
6	94-7191	Solenoid Valve Ass'y	1
7	94-7222	90° Hose Barb, 1/8" MPT x 1/4" HB	1
8	94-7226	Needle Valve	1
9	94-7269	Valve Spacer	1
10	3253-17	Lock Washer, 3/16"	2
	32105-29	Machine Screw, washer hd. #8 x 7/8"	2
11	21-82-AMD		



MIXER TEE & BOOM ENDS

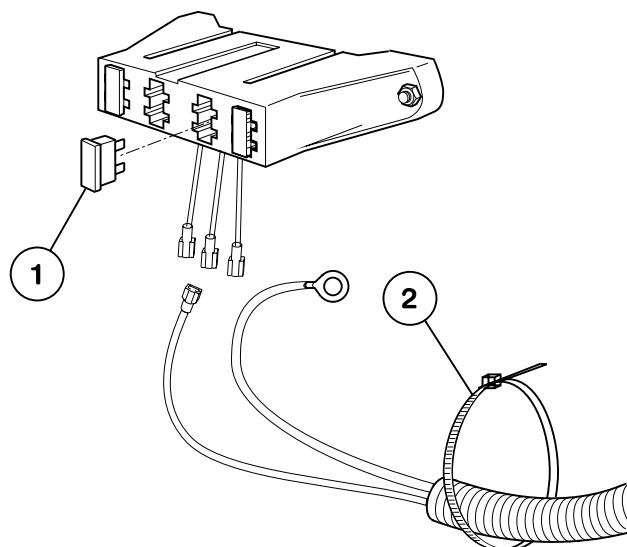
Ref	Part No.	Description	Qty
1	3256-14	Flat Washer, #10	4
2	3253-17	Lock Washer, #10	4
3	32144-87	Self-Tapping Screw, #8 x 1/2"	4
4	94-7251	Mixer Tee Mounting Bracket	1
5	323-6	Cap Screw, 3/8" x 1	1
6	3256-4	Flat Washer, 3/8" USS	2
7	32153-2	Lock Nut, 3/8"	1
8	94-7225	Modified Hex Plug, 1"	3
9	94-7220	Hose Barb, 1/8" x 1/4" HB	3
10	94-7250	Connecting Hose, 2"	2
11	94-7223	Wye Barb, 1/4"	1

Ref	Part No.	Description	Qty
12	94-7247	Supply Hose, 108"	2
13	97406	Hose Clamp	8
14	94-7196	Mini Check Valve, 1/4"	1
15	41305	Tee, 1"	1
16	94-7227	Foam Filter	1
17	94-7224	Nipple, 1/8" close brass	2
18	94-7191	Solenoid Valve Ass'y	2
19	94-7248	Boom Hose, 120"	2
20	21146	Hose Clamp	2
21	93-0611	Extension Hose	2
22	94-7195	Boom Cap With Hole	2



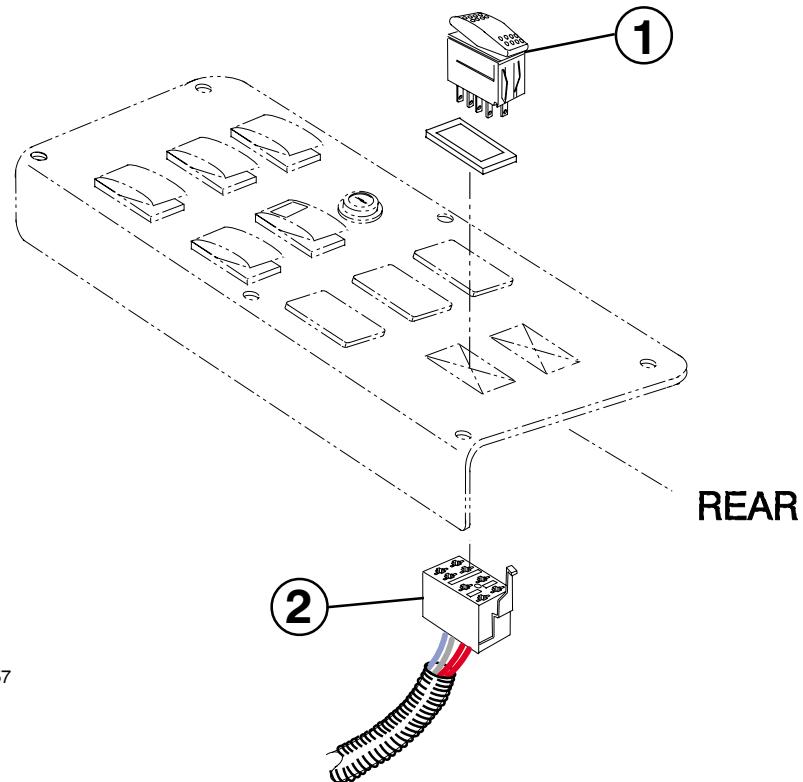
MULTI PRO® 5500 SWITCH ASSEMBLY

Ref	Part No.	Description	Qty
1	92-8531	Boot, Switch	2
2	94-7243	Toggle Switch	2
3	94-7217	Wire Harness	1



MULTI PRO® 5500 & 1250 FUSE BLOCK

Ref	Part No.	Description	Qty
1	42764	20 AMP Fuse	1
2	95672	Cable Tie, 11"	12



MULTI PRO® 1250 SWITCH ASSEMBLY

Ref.	Part No.	Description	Qty.
1	100-8589	ROCKER SWITCH	2
2	100-8630	Wire Harness Extension	2

NOTES:



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