

M-421-06

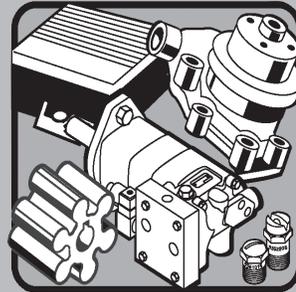
Starting with Serial Number SH-1000

Updated November 30, 2022

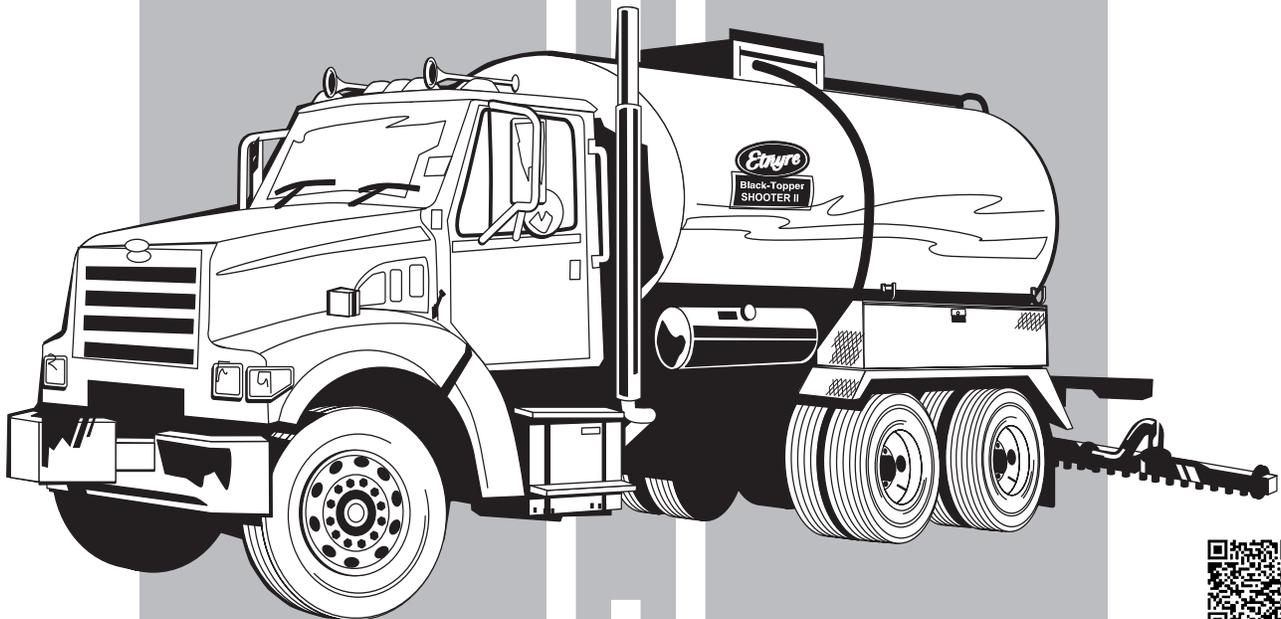


Black-Topper®
SHOOTER II

Asphalt Distributor



Repair Parts



E. D. ETNYRE & CO. 1333 S. Daysville Road, Oregon, Illinois 61061

Phone: 815/732-2116 or 800/995-2116 • Fax: 800-521-1107 • www.etnyre.com

PARTS / SERVICE: 888-586-1899 • CustomerService@etnyre.com

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Updated November 30, 2022

Black-Topper Shooter II Series ASPHALT DISTRIBUTOR PARTS MANUAL

HOW TO ORDER PARTS

To assure prompt delivery when ordering parts, please furnish the following information: **1)** Complete name and address of consignee. **2)** Method of shipment preferred. **3)** Serial numbers of units to which parts apply. **4)** Complete part numbers and descriptions. **5)** Any special instructions.

Specify unit serial number when ordering parts!

WARRANTY

E. D. Etnyre & Co. warrants to the original Purchaser, its new product to be free from defects in material and workmanship for a period of twelve (12) months after date of delivery to original Purchaser. The obligation of the Company is limited to repairing or replacing any defective part returned to the Company and will not be responsible for consequential damages or any further loss by reason of such defect.

The company excludes all implied warranties of merchantability and fitness for a particular purpose. There are no warranties, express or implied, which extend beyond the description of the goods contained in this contract.

This warranty does not obligate the Company to bear the cost of machine transportation in connection with the replacement or repair of defective parts, nor does it guarantee repair or replacement of any parts on which unauthorized repairs or alterations have been made or for components not manufactured by the Company except to the extent of the warranty given by the original Manufacturer.

This warranty does not apply to:

- (1) Normal start-up services, normal maintenance services or adjustments usually performed by the selling dealer, factory service representative or customer personnel.
- (2) Any product manufactured by E. D. Etnyre & Co. purchased or subjected to rental use.
- (3) Any product or part thereof which shows improper operation, improper maintenance, abuse, neglect, damage or modification after shipment from factory.
- (4) Any product or part thereof damaged or lost in shipment. Inspection for damage should be made before acceptance or signing any delivery documents releasing responsibility of the delivering carrier.

This warranty and foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchantability or otherwise, express or implied in fact or by law.



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Safety Precautions, Hazard Seriousness Level

You will find safety information boxes throughout this manual. These boxes contain information alerting you to situations or actions to avoid.

Signal words (DANGER, WARNING and CAUTION) are used to identify levels of hazard seriousness. Their selection is based on the likely consequence of human interaction with a hazard. Definitions of hazard levels are as follows.

 **DANGER** - Immediate hazards which will result in severe personal injury or death.

 **WARNING** - Hazards or unsafe practices which could result in severe personal injury or death.

 **CAUTION** - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

 **WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: www.P65Warnings.ca.gov

6322159

Please note this warning and remember -

Always start and operate the engine in a well ventilated area;

If in an enclosed area, vent the exhaust to the outside;

Do not modify or tamper with the exhaust system.

WARNING

Do not use this machine for any operation which is not described in this manual.

If you have any questions about operation of this machine, contact the Etnyre Service Department at 1-800-995-2116 or 1-815-732-2116.

Operations that are not approved could cause serious injury or death.

WARNING

FLUROELASTOMER HANDLING

Some O-rings and seals used in this vehicle are made from fluoroelastomers, When used under design conditions, fluoroelastomers do not require special handling. However, when fluoroelastomers are heated to temperatures beyond their design temperature (around 600° Fahrenheit), decomposition may occur with the formation of hydrofluoric acid. Hydrofluoric acid can be extremely corrosive to human tissue if not handled properly.

A degraded seal may appear as a charred or black sticky mass, Do not touch either the seal or the surrounding equipment without wearing neoprene or PVC gloves if degradation is suspected. Wash parts and equipment with 10% lime water (calcium hydroxide solution) to neutralize any hydrofluoric acid.

If contact with the skin occurs, wash the affected areas immediately with water. Then rub a 2.5 calcium gluconate gel into the skin until there is no further irritation, while seeking prompt medical attention.

Note to Physicians: For advice or treatment of HF burns, call the DuPont Medical Emergency number, 1-800-441-3637

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Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash, injury, or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying E.D. Etnyre & Co.

If NHTSA receives similar complaints, it may open an investigation. If it finds 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 E.D. Etnyre & Co.

To contact NHTSA, you may call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in the Washington, D.C. area). Or, you may write to: U.S. Department of Transportation, Washington, D.C. 20696. You may also obtain other information about motor vehicle safety from the Auto Safety Hotline.

E.D. Etnyre & Co., Oregon, Illinois 61061, Phone Area Code 815/732-2116, Cable Address "EDECO". CALIFORNIA

WARNING

Fluoroelastomer handling

Some "O" rings and seals used in this vehicle are made from fluoroelastomers. When used under design conditions, fluoroelastomers do not require special handling. However, when fluoroelastomers are heated to temperatures beyond their design temperature (around 600 degrees Fahrenheit), decomposition may occur with the formation of hydrofluoric acid. Hydrofluoric acid can be extremely corrosive to human tissue if not handled properly.

A degraded seal may appear as a charred or black sticky mass. Do not touch either the seal or the surrounding equipment without wearing neoprene or PVC gloves if degradation is suspected. Wash parts and equipment with 10% lime water (calcium hydroxide solution) to neutralize any hydrofluoric acid.

If contact with the skin occurs, wash the affected areas immediately with water. Then rub a 2.5 calcium gluconate gel into the skin until there is no further irritation, while seeking prompt medical attention.

Note to physicians: For advice or treatment of HF Burns, call the DuPont Medical Emergency Number 1-800-441-3637.

This manual covers standard features and options. If your unit incorporates custom features, some of the information contained in this manual may not apply. If you have any questions regarding this manual or your unit, contact your dealer or the E. D. Etnyre Service Department at 1-800-995-2116

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Please note this warning and remember -

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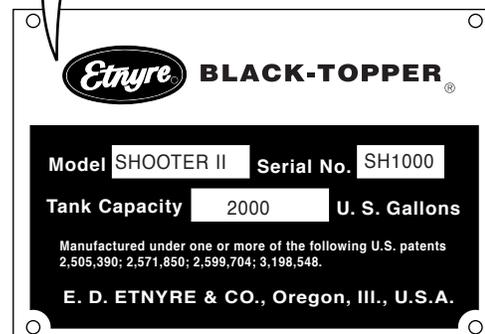
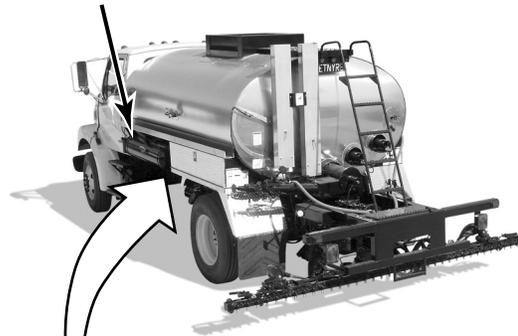
If in an enclosed area, vent the exhaust to the outside;

Do not modify or tamper with the exhaust system.

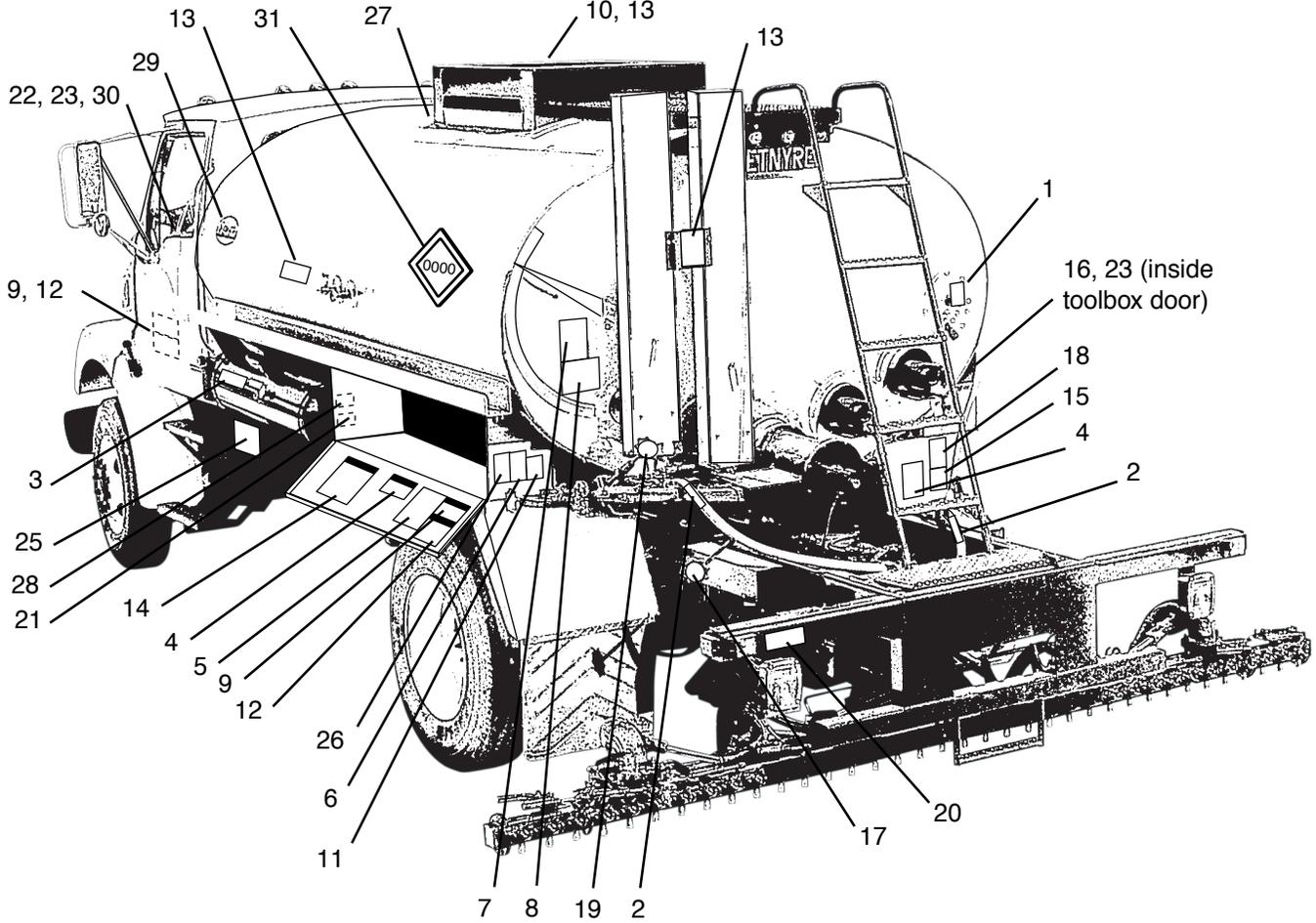
Serial Number Plate Location

The Serial Number Plate is a brass plate located on the left side of the vehicle toolbox. Generally, the serial number has a letter prefix followed by four numbers.

The unit serial number is also stamped on the left front tank mounting leg.



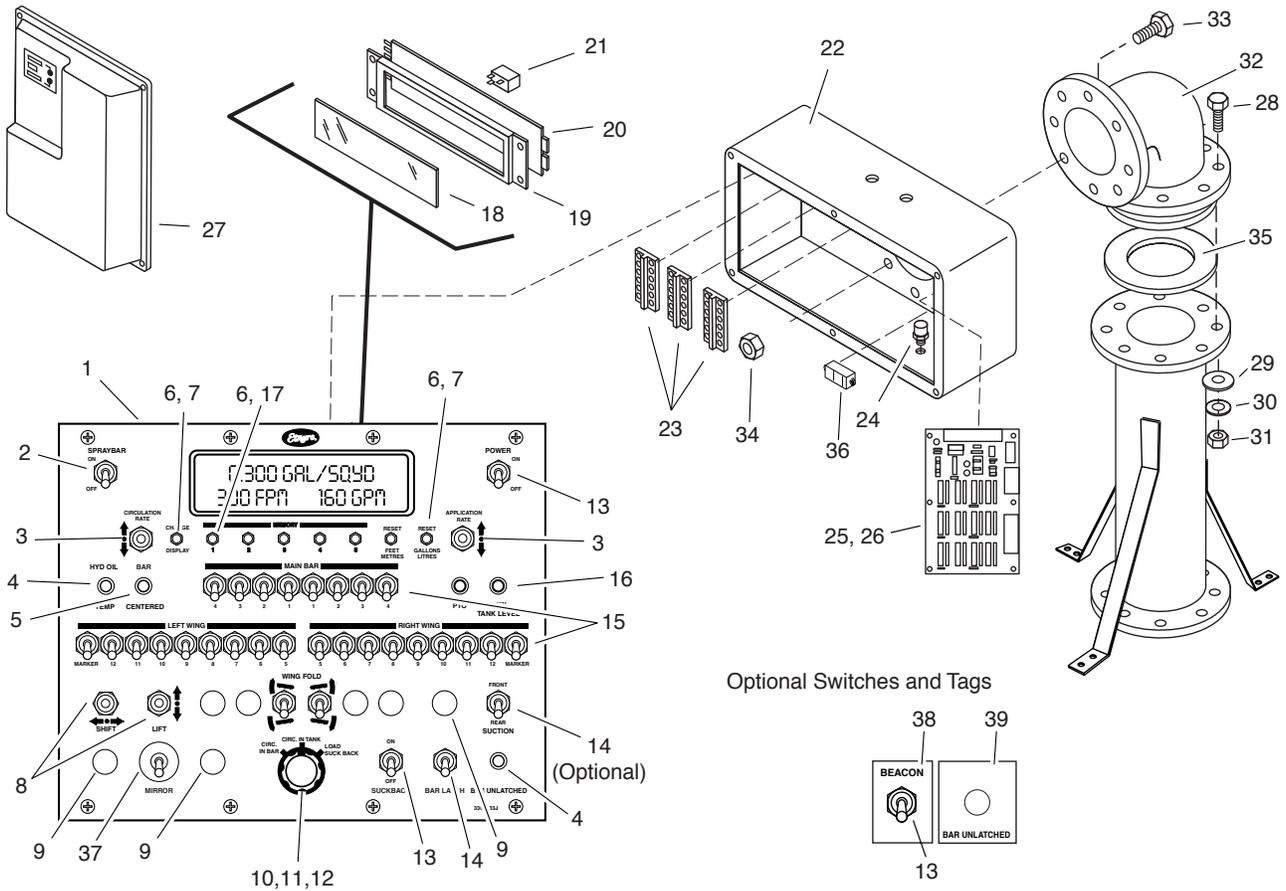
Warning And Instruction Plates



- For operator safety and possible liability protection, all Safety and Instruction Plates should remain in place and be legible.
- Should a plate be removed, lost, or become illegible, reorder and replace it immediately.
- If plates become difficult to read because of material coating the surface, clean with solvent.

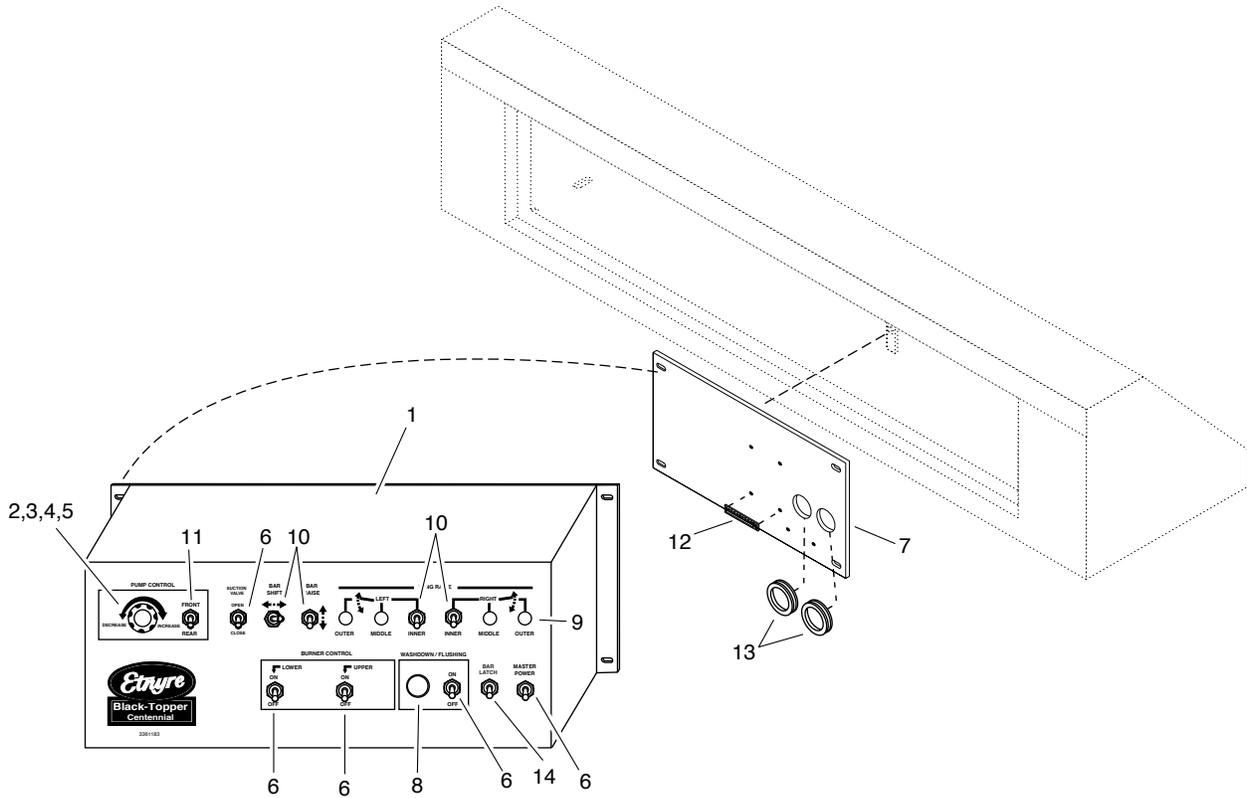
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6320784*	1	Plate-CAUTION, Shields In Place	16	6320800*	1	Decal - Fill with Diesel Fuel Only
2	6320806*	2	Tag - CAUTION, 3/4" Hose	17	6320801*	1	Decal - Return Valve Close
	6320785*	2	Tag - CAUTION, 1" Hose	18	6320802*	1	Decal - Warning, Handspray Hose
3	6320786*	1	Plate - Instruction Hydraulic Oil	19	6320803*	1	Decal - Transfer Valve Open/Close
4	6320792*	1	Label - High Pressure Elec. Burners	20	6320804*	1	Decal - Warning, No Riders
	6320787*	1	Plate - Directions, LPG Burners	21	6320805*	1	Decal - All American
5	6320788*	1	Decal - Lubrication Chart	22	6320807*	1	Decal - Master Power Switch
6	6320789*	1	Tag - Warning, Don't Mix Asphalts	23	6320808*	1	Decal - Aftermarket Electrical Equip.
7	6320790*	1	Decal - Warning GVWR	24	6320809*	1	Decal - Air Oiler
8	6320791*	1	Decal - Handspray Operation				* all the above included in decal kit 6320782
9	6320793*	2	Decal - Warning, Read Manuals	25	2790530	1	Plate - Name Spec.
10	6320794*	1	Decal - Warning, Manhole	26	3390636	1	Plate - Warning, Flues Covered
11	6320795*	1	Decal - Warning, Fill Cap	27	3390645	1	Label - Measuring Stick, 1 Flue
12	6320796*	2	Decal - Warning, Remain Clear		3390656	1	Label - Measuring Stick, 2 Flues
13	6320797*	3	Decal - Caution, Hot Surface	28	3390655	1	Plate - Name Distributor Brass
14	6320798*	1	Decal - Warning, Safety Hazards	29	3390696	2	Decal - Blacktopper Centennial
15	6320799*	1	Decal - Warning, Burner General	30	3390709	1	Decal - Wiring Terminal
				31	6320272		Optional Placard

Control Panel And Stand



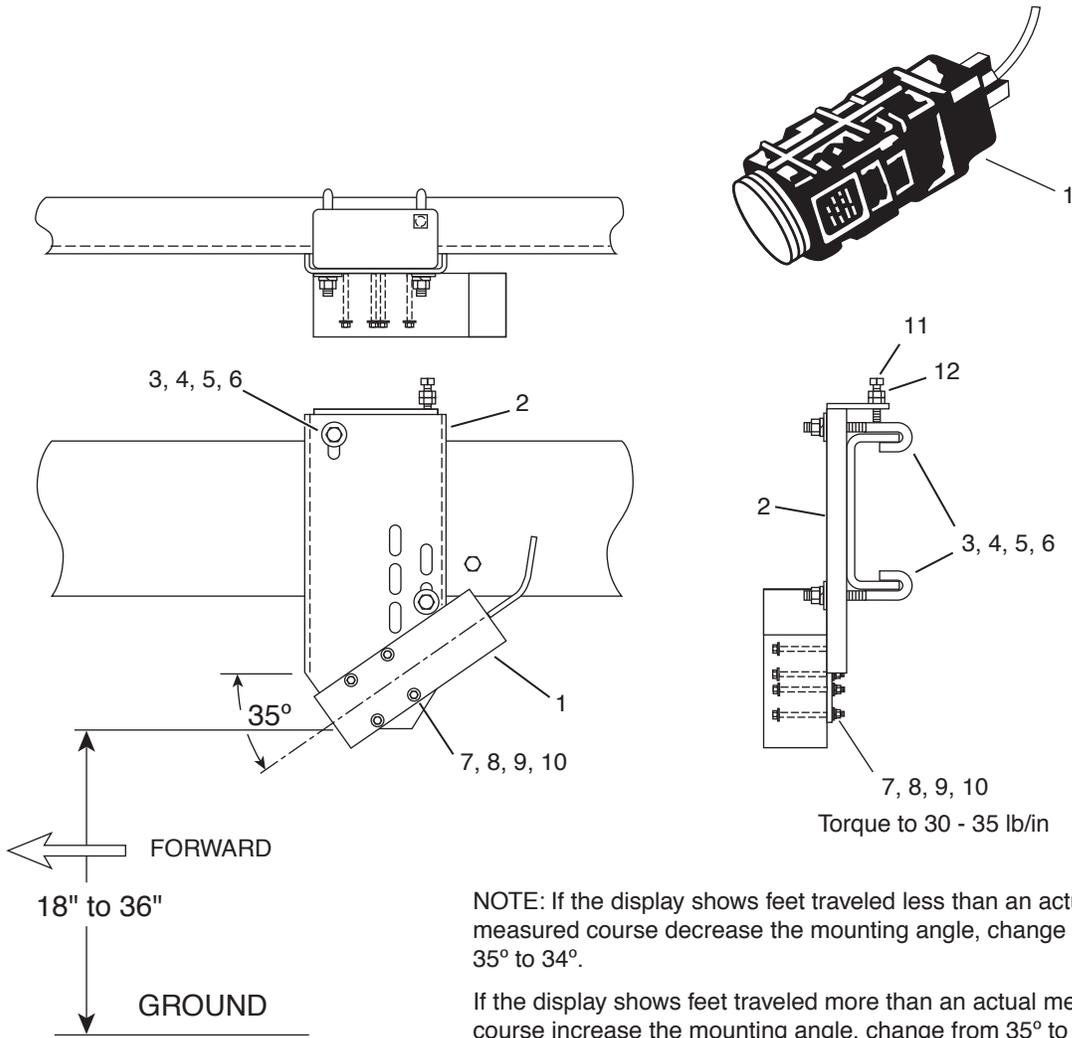
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3361133	1	Face Plate	23	6702072	3	Terminal Strip
	7520019	1	Standard Box Complete (Specify Serial No. for panels with other Options)	24	6702094	1	Circuit Breaker-15 AMP
2	6701976	1	Switch-Toggle,TPDT,2 Pos	25	6702192	1	Interface Board
3	6700161	2	Switch-Toggle,SPDT,Mom	26	6701980	4	Spacer
4	6702075	2	Light-Red,12V	27	6703077	1	Controller
5	6702077	1	Light-Green	28	0120233	8	Screw, 0.38NC x 1.00
6	6702198	8	Switch-Push Button,SPDT,Mom	29	0120388	8	Flat Washer, 0.38
7	6702196	3	Cap-Red	30	0120382	8	Lock Washer, 0.38
8	6701897	4	Switch-Toggle,DPDT,3 Pos,Mom	31	0120377	8	Nut, 0.38NC
9	6702199	AR	Button Plug	32	3321307	1	Elbow Asm
10	6702188	1	Switch-Rotary,4 Pole,10 Pos	33	0121913	4	Screw, 0.25NC x 1.25
11	6701907	1	Control Knob	34	9413946	4	Lock Nut, 0.25NC
12	6702033	1	Resister-100 Ohm,1/2 W, 5 %	35	3321306	1	Gasket
13	6700255	4	Switch-Toggle,SPST,2 Pos,Maint	36	6702038	1	Relay
14	3160005	2	Switch-Toggle,SPST,2 Pos,Maint	37	7230372	1	Mirror Switch
15	6703151	16	Switch-Toggle,DPDT,Long Bat		6702560	1	Plug for Mirror Switch Hole
16	6702076	1	Light-Amber	38	3361108	1	Tag-Beacon
17	6702197	5	Cap-White	39	3361334	1	Tag-Bar Unlatched
18	3361148	1	Window				AR = As Required
19	6703494	1	Display-LCD				
20	6702194	1	Driver Board				
21	6702195	1	Inverter				
22	3370249	1	Control Panel Enclosure				

Control Panel Assembly - Rear



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3361183	1	Faceplate and Box ONLY				
	7520020	1	Control Box Complete (Specify Serial No. for panels with other Options)				
2	6701907	1	Knob-Control				
3	6703078	1	Pot-1K, Single, Linear 2.25 W				
4	6702033	1	Resistor-100 OHM, 0.50 W, 5 Per				
5	3361162	1	Disk-Foam, 1.25 Dia., 0.25 Thick				
6	6700255	AR	Switch-Toggle, SPST, 2 POS				
7	3361260	1	Backplate-RR Control Box				
8	6700875	1	Warning Device, Audio-Visual				
9	6702199	AR	Plug-Button				
10	6701897	AR	Switch-Toggle, DPDT, 3 POS				
11	6701976	1	Switch-Toggle,TPDT (Used W/Comp)				
	3160005	1	Switch-Toggle,SPDT (Used w/o Comp)				
12	6700306	1	Terminal Strip-10 Bar				
13	6700878	2	Grommet-Rubber, 1.50 ID x 0.38x2.00				
14	3160005	1	Switch-Toggle,SPDT				
			AR = As Required				

Radar Speed Sensor Installation



NOTE: If the display shows feet traveled less than an actual measured course decrease the mounting angle, change from 35° to 34°.

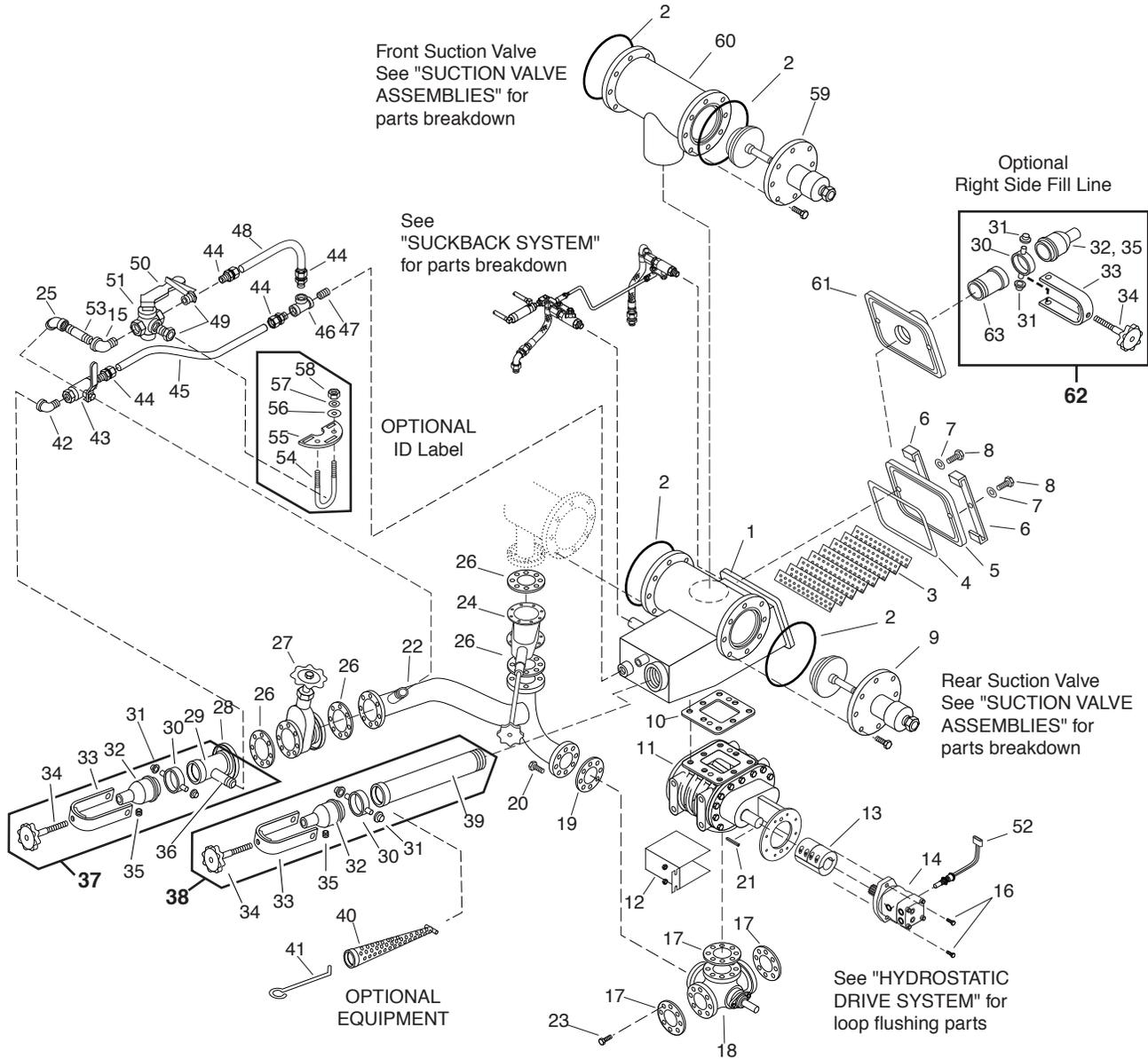
If the display shows feet traveled more than an actual measured course increase the mounting angle, change from 35° to 36°.

One degree change in angle changes the readout approximately one percent.

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3370212	1	Speed Sensor Radar Head, W/O Plug				
	7530050	1	Kit - Window Cover				
	PD10253	1	Decal-Warning				
2	3361236	1	Mounting Plate Asm				
3	3360726	2	Hook Bolt				
4	0121574	2	Lock Washer-0.62				
5	0124589	2	Nut-0.62NC				
6	0130999	2	Flat Washer-0.62				
7	0432903	4	Screw-0.25NC x 4.00				
8	0120386	8	FlatWasher-0.25				
9	9413946	4	Lock Nut-0.25NC				
10	3370254	4	Spacer				
11	0110456	1	Screw, SqHd-0.50NC x 3.00				
12	0120378	1	Nut-0.50NC				

Circulating System - Small Strainer Box

CIRCULATION SYSTEM

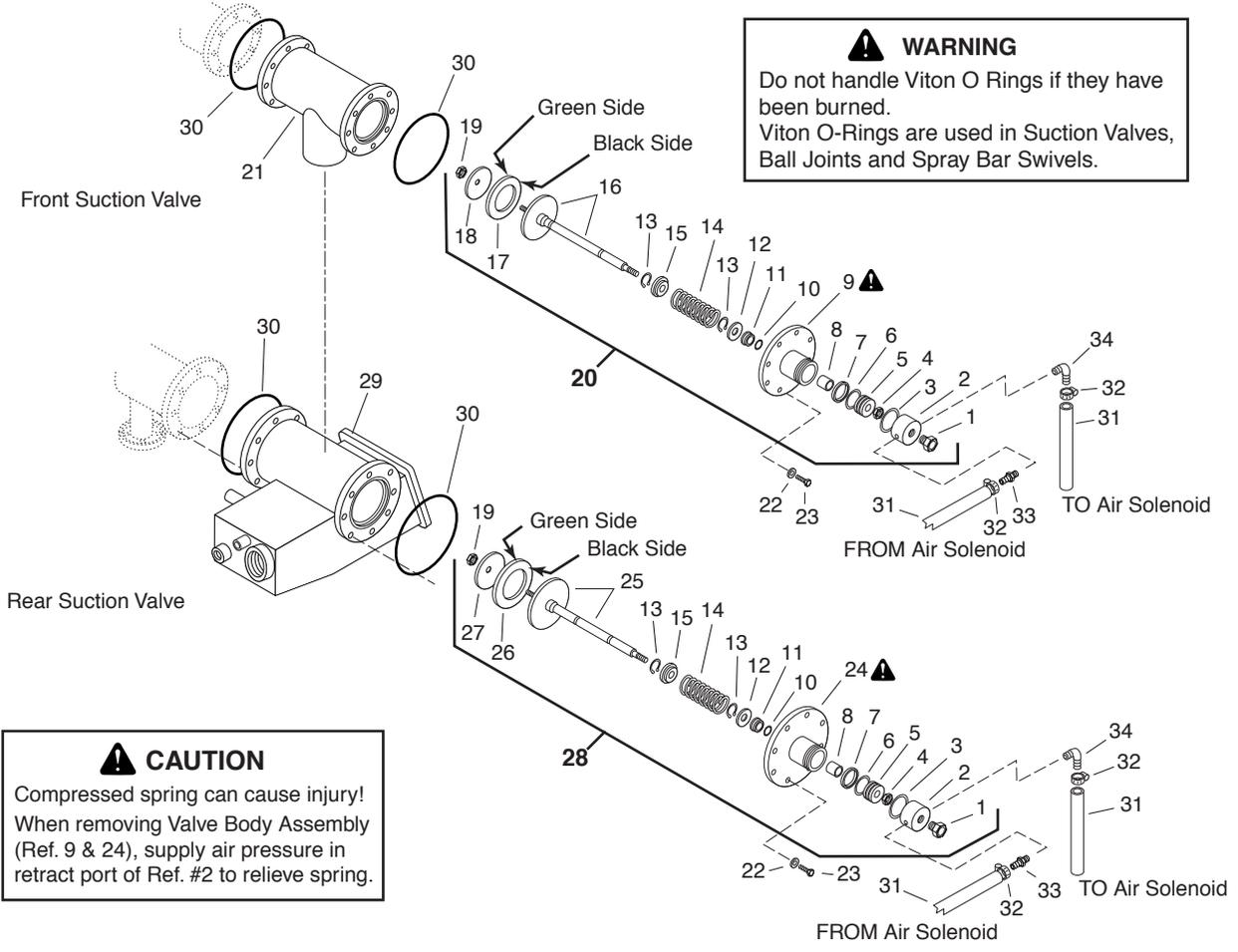


Circulating System - Small Strainer Box

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3341653	1	Strainer Box Assembly	50	3380695	1	Handle-Valve, H.S., Offset
2	---	AR	Gasket Maker-LOCTITE 510	51	6602404	1	Valve-Plug, 1.00, 3 Way, 2 Port
3	3341442	1	Strainer Asm	52	2670073	1	Speed Pickup
4	7230359	1	Packing, 0.25 Sq.	53	0431929	1	Nipple-Pipe, 1 x 4 /2
5	3341965	1	Lid	54	3330081	1	Clip, 2.00 x 2.00 x 0.25, 4.00 Lg.
6	3341964	2	Clamp Bar Asm	55	S1283AD	1	Label-3 Way H.S. Vlv
7	9411727	2	Nut-Hex, Lock, 0.50NC, EA, PD	56	0120386	2	Washer-Flat, 0.25A(0.31 x 0.73)PD
8	0180175	2	Screw-Hex, 0.50NC x 1.25, GR5, PD	57	0120380	2	Washer-Lock, 0.25, Spring, PD
9	3341412	1	Rear Suction Valve Mechanism	58	0120375	2	Nut-Hex, 0.25NC, PD
10	3352222	1	Gasket-Pump, Strainer Box	59	3341421	1	Valve Mechanism-4" Front Suction
11	3342132	1	Pump Asm - Asphalt-6/05 & after	60	3301209	1	Can Asm-4" Front Suction Valve
	3342167	1	Pump Asm - Asphalt, Heated	61	S1761AK	1	Lid Asm-Strainer Box R+L Fill
12	3390716	1	Guard	62	3340039	1	Filling Line Asm
13	6445103	1	Coupling	63	3340043	1	Pipe Asm-Tank Car
14	6603479	1	Motor-White				
15	0108687	1	Elbow-Pipe, ST, 90				AR = As Required
16	0180175	2	Screw-Hex, 1/2NC x 1 1/4, Gr 5				
17	3340515	3	Gasket-Flange				
18	3341441	1	4 Way Valve Assembly				
19	3340519	1	Gasket-Return Line				
20	0180083	6	Screw-Hex, 0.31NC x 1.25, GR5, PD				
21	6000224	1	Key- 5/16 x 5/16 x 1				
22	3342012	1	Line Asm				
23	0180124	12	Screw-Hex, 3/8NC x 1 1/4				
24	3341903	1	Valve -Gate,Modified				
25	0119096	1	Elbow-Pipe, 45				
26	6000071	4	Gasket-3 Flange, AV10233B, ASB				
27	3342034	1	Vlv-Gate, G1013, 3 Allegney Vlv				
	7420250	1	Gland Follower				
	7420251	1	Packing Set				
	7420252	1	Gland Washer				
28	6000068	1	Flange-20056A, 3 Flued Alegny Cplg				
29	3341481	1	Pipe Asm - Fill Line				
30	3341078	2	Ring Asm-Clamping Transfer Vlv				
	9413946	1	Nut-Hex, Lock, 0.25NC, EA, PD				
	0121913	1	Screw-Hex, 0.25NC x 1.25, GR2, PD				
31	6001056	4	Cap-Retainer, 0.5 Dia Stud				
32	3380388	2	Cap Asm-Fill Line				
33	3340041	2	Clamp Asm-3 Hose Conn.				
34	3340033	2	Clamp Asm-Screw, Filling Line				
35	0219190	1	Plug-Pipe, SqHd, 0.25NPT, PD				
36	3301195	1	Nipple-Pump Off Line				
37	3341482	1	Pipe Asm - Pump Off & Handspray				
38	3301200	1	Fill Line Asm				
39	3301199	1	Fill Pipe				
40	3340004	1	Strainer Asm (Optional)				
41	3390030	1	Hook-Intake Strainer				
42	0141621	1	Elbow-Pipe, 90, ST, 0.75NPT, PN				
43	6602237	1	Valve-Ball, 0.75, Bronze				
44	6600852	4	Adapter-ARBK, ST, 12MP-12MT				
45	3342023	1	"S" Tube, Suckback				
46	0125988	1	Tee-Pipe, .75 NPT, PN				
47	0144613	1	Nipple-Sch 40, 0.75 x 1.38 CL, PN				
48	3342024	1	Tube-Suckback				
49	0128003	2	Bushing-Pipe, 1.00 x 0.75NPT, PN				

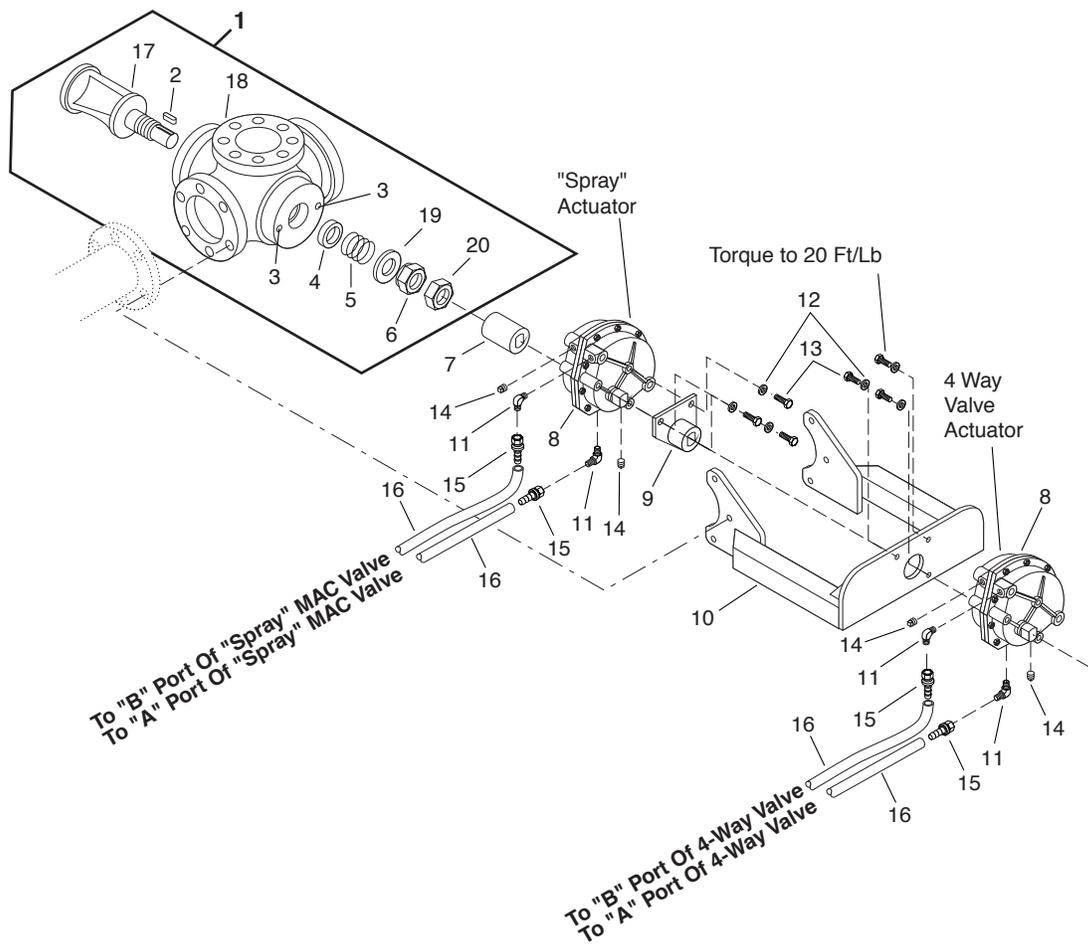
CIRCULATION SYSTEM

Suction Valve Assemblies Front and Rear



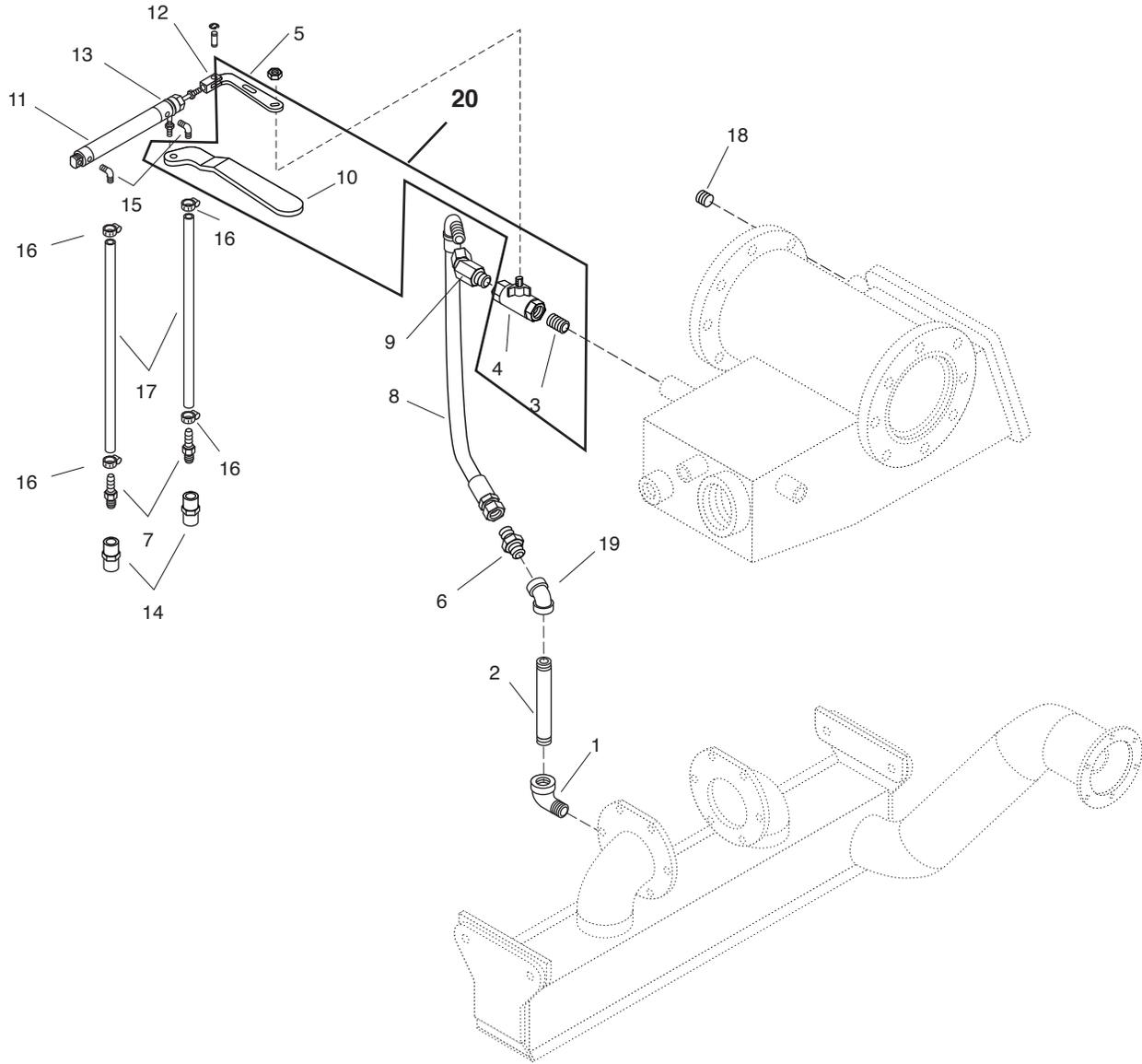
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	7050364	1	Sight Plug, 0.75NPT	20	3341421	1	Front Suction Valve - 4"
2	3341420	1	Cylinder Cap				(Does Not Include Items 22 and 23)
3	3341414	1	Gasket	21	3301209	1	Can Weldment
4	9416894	1	Lock Nut, 0.75NC	22	0120384	8	Washer-Lock, 0.50, Spring, PD
5	3341418	1	Piston	23	0120426	8	Screw-Hex, 0.50NC x 1.25
6	6602233	1	O-Ring, 2.5 OD x 2.1 ID x 0.188, Viton	24	3341416	1	Body Asm
7	6602232	1	Seal, 2.5 Dia, Teflon	25	3341455	1	Seat & Shaft Asm
8	6420121	1	Bushing-Du, 1.13 OD x 1.0 ID x 1.5	26	3341513	1	Gasket Asm
9	3341424	1	Body Asm		2750597	1	Green Fiber (next to Retainer)
10	6602152	1	O-Ring, 1.25 OD x 0.125		3341491	1	Black Viton (next to Seat & Shaft Asm)
11	6602151	1	Scraper-Nitrile, 1.0 ID x 1.5 OD	27	2740137	1	Retainer
12	3341419	1	Stop	28	3341412	1	Rear Suction Valve Mechanism
13	6000322	2	Snap Ring				(Does Not Include Items 22 & 23)
14	6602234	1	Spring-#1, 2.4 OD x 1 7/8 ID x 0.312	29	3341653	1	Strainer Box Asm
15	3341117	1	Retainer	30	---	AR	Gasket Maker-LOCTITE 510
16	3341456	1	Seat & Shaft Asm	31	6601452	AR	Hose-Air Sol-Cyl. Bar ON-OFF
17	3341514	1	Gasket Asm	32	6001005	10	Clamp-Hose, Screw Type, M5
	2740165	1	Green Fiber (next to Retainer)	33	6601795	1	Hose End-04 x 02MP, ST, LP
	3341492	1	Black Viton (next to Seat & Shaft Asm)	34	6602399	AR	Hose Barb-04 x 02MP, 90, LP
18	2740175	1	Retainer				
19	9413948	1	Nut-Lock, 0.62NC				

4 Way Valve Asm And Controls



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3341441	1	4 Way Valve Asm				
2	6000224	1	Key-0.31 x 0.31CR x 1.00				
3	0125947	2	0.12 Slotted Pipe Plug				
4	3340029	4	Packing				
5	3341464	1	Spring				
6	3341187	1	Stem Nut				
7	3361292	1	Coupling-Rotary Actuator				
8	6603023	2	Actuator-Rotary,Vane,Air				
9	3361291	1	Coupling-Rotary Actuator				
10	3311750	1	Frame-Rotary Actuator				
11	0118755	4	Elbow-Auto,90,04MP-06MS				
12	0120382	6	Washer-Lock,3/8,Spring,PD				
13	6001062	6	Screw-Hex,3/8NC x 1,Gr 8,PD				
14	0219189	4	Plug-Pipe,SqHd,1/4NPT,PN				
15	6600306	4	Hose End-06 x 06FSX,St,LPSP				
16	6600324	AR	Hose-3/8,Air				
17	3341138	1	Plug-4-Way Valve				
18	3341440	1	Body-4-Way Valve				
19	0197070	1	Washer-Flat 1 3/8				
20	3341648	1	Nut-Lock, Valve Stem				
AR = As Required							

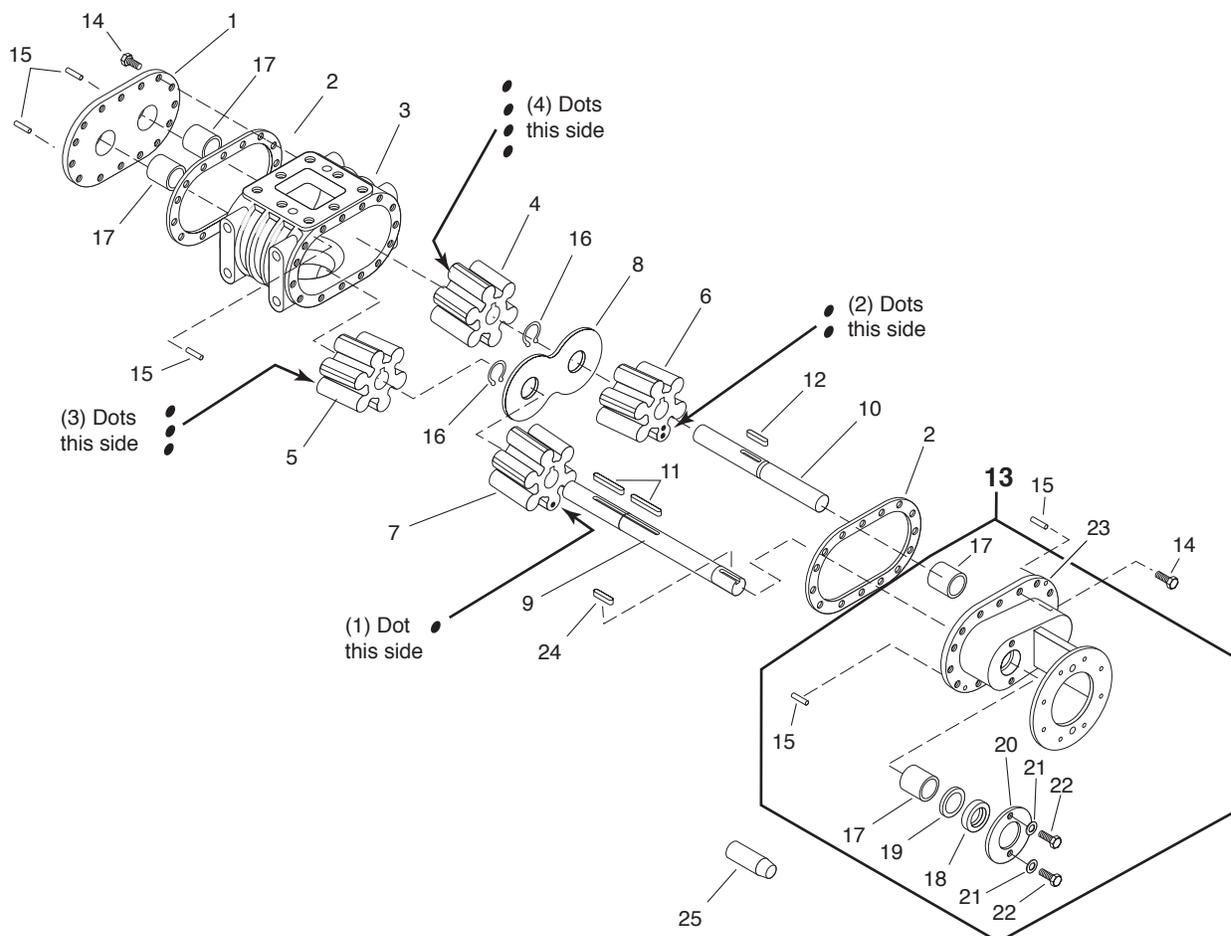
Automatic Suckback System



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	0144113	1	Elbow-Pipe, 90, St, 3/4 NPT, PD	8	6200846	1	Hose Asm- 12X11.75, 12FJX-12MP90
2	3342121	1	Pipe-Var Width Suckback	9	4470915	1	Elbow-Hydr, 45, 12FJX-12MP
3	0144613	1	Nipple-Sch 40, 0.75 X 1.38 CL, PN <i>(Serial Number S4595 and below)</i>	10	3341730	1	Bracket-Mtg, Suckback Cyl <i>(Serial Number S4595 and below)</i>
3	6601543	1	Nipple-Sch 40, 0.75 X 1.75 CL, PN <i>(Serial Number S4596 and above)</i>	10	3342254	1	Bracket-Mtg, Suckback Cyl <i>(Serial Number S4596 and above)</i>
4	6602237	1	Valve-Ball, .750, Bronze <i>(Serial Number S4595 and below)</i>	11	6602719	1	Cylinder-Air, 1.06 B X 6" Stroke
4	6600015	1	Valve-Ball, .750, Bronze <i>(Serial Number S4596 and above)</i>	12	6602339	1	Clevis-Rod, Cyl
5	3341697	1	Lever-Suckback, Long, Auto, Phase II <i>(Serial Number S4595 and below)</i>	13	6100337	1	Bolt-Eye, 0.31 NC X 1.00, PD
5	3361391	1	Lever-Suckback, Long, Auto, Phase II <i>(Serial Number S4596 and above)</i>	14	6602888	2	Orifice Fitting-1/8 NPT, .0465
6	9402711	1	Adapter-Hydr, ST, 12MP-12MJ	15	6602242	2	Hose End-03 x 02MP90
7	6602241	2	Hose End-03 x 02MP	16	6001005	4	Clamp-Hose, Screw Type, M5
				17	6309255	AR	Hose-Fuel/Air, 3/16
				18	0219302	1	Plug-Pipe, 3/4" NPT, PD
				19	0119099	1	Elbow-Pipe, 90, 3/4 NPT, PD
				20	7050671	1	Kit-SB, Valve, VWSP

Asphalt Pump Assembly

3342132

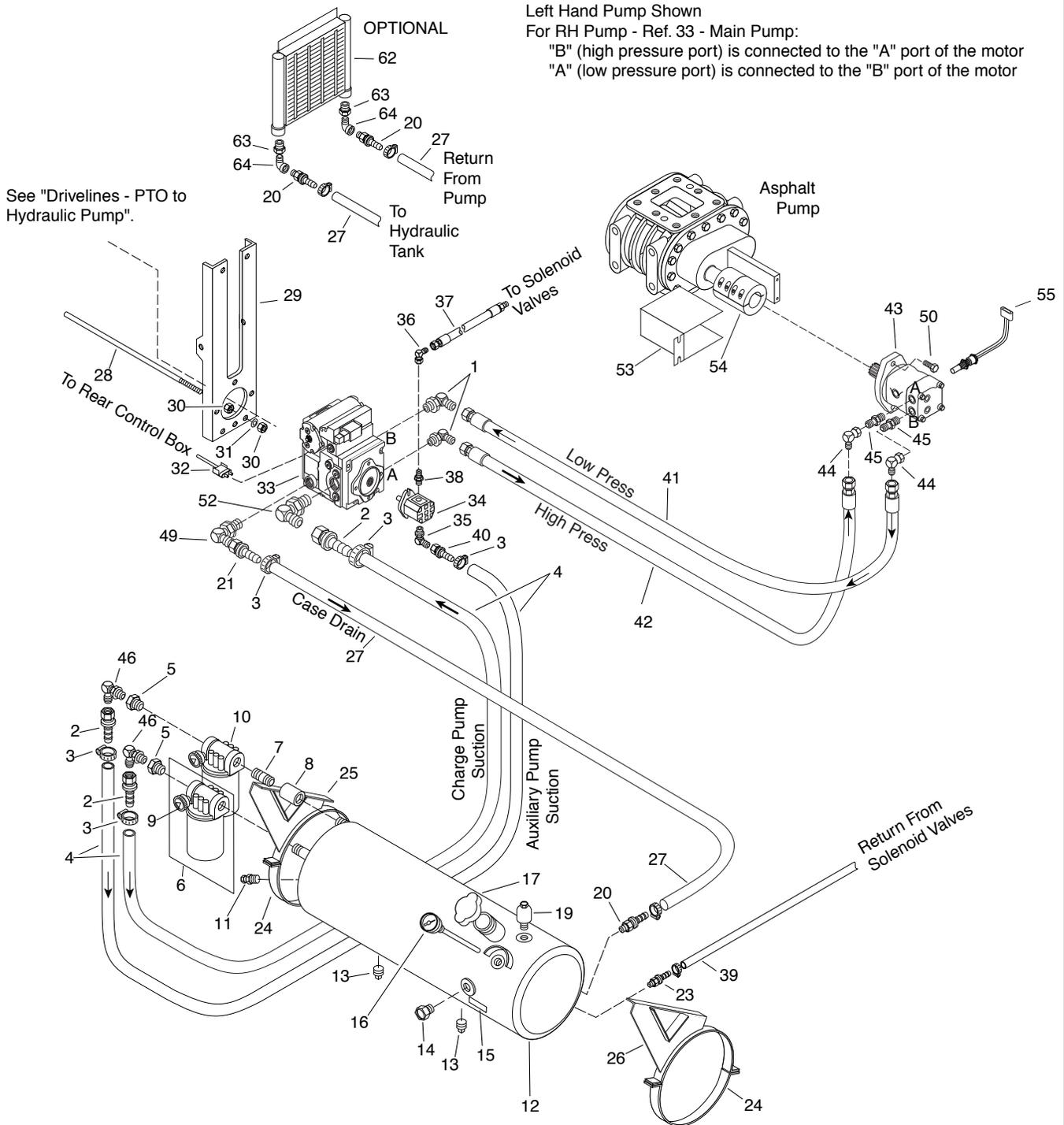


CIRCULATION SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3341558	1	Plate Asm - Rear Plate	15	6100444	4	Pin-Dowel, 1/4 x 3/4
2	3340287	2	Gasket-Face Plate	16	6001169	2	Snap Ring-Ext
3	3341216	1	Case-Pump, P-15	17	3341559	4	Bearing-Pump Shaft
4	3340279	1	Impeller-Herringbone (4)LH w/Key	18	6420231	1	Seal-Shaft, HP, 1 7/16 Shaft
5	3342131	1	Impeller-Herringbone (3)RH (3342132)	19	3342018	1	Washer-Pump Seal Spacer
6	3341462	1	Impeller-Herringbone (2)	20	3341647	1	Seal Retainer Plate
7	3341463	1	Impeller-Herringbone (1)	21	0120382	2	Washer-Lock, 0.38, Spring, PD
8	3340298	1	Plate-Division	22	0122119	2	Screw-Hex, 0.38NC x 0.75, GR2, PD
9	3341898	1	Pump Shaft - Drive	23	3341893	1	Endplate.Pump/Motor Mt.
10	3341553	1	Pump Shaft - Idler	24	6000224	1	Key-0.31 x 1.00
11	2640725	2	Keystock 1/4 X 1/4 x 2 1/2 Lg	25	3321447	1	Seal Tool-Asphalt Pump
12	2640726	2	Keystock 1/4 X 1/4 x 1 Lg				
13	3341892	1	Front Face Plate Assembly (Includes Ref 17-23)				
14	0120233	40	Screw-Hex, 0.38NC x 1.00 GR2,PD				

Hydrostatic Drive System - PTO Driven 42 Series Pump

HYDRAULIC



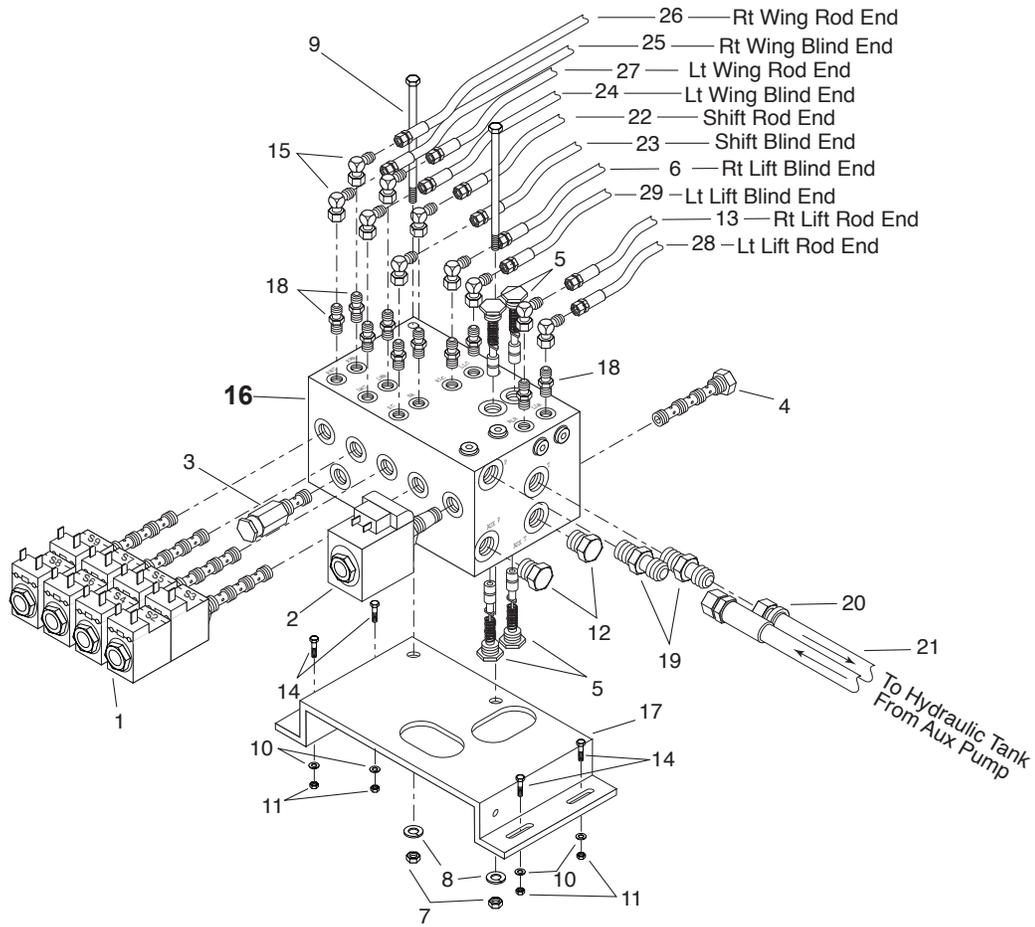
Hydrostatic Drive System - PTO Driven

42 Series Pump

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6602586	2	Elbow-Hyd, 90, 12MB-16MJ	45	6600910	2	Adapter-Hydr,St,10MB-12MJ
2	6601566	3	Hose End, 16-16FJX, ST	46	6601135	2	Elbow-Hyd, 90, 16MP-16MJ
3	6000792	3	Clamp-Hose, Worm Dr., 1.06 to 2	47	9410203	1	Adapter-Hydr,St,08MJ-08MB
4	6601564	AR	Suction Hose, 1" ID	48	6602170	1	Elbow-Hyd, 45,08MJ-08MP
5	0215915	1	Pipe Bushing, 1.25 x 1.00 NPT	49	6602456	1	Elbow-Hyd, 90, 16MB-12MJ
6	6602214	1	Vacumn Filter, 10 Micron	50	0180175	2	Screw-Hex,1/2NC x 1 1/4,Gr 5
	7420244	1	Replacement Element	51	6600664	1	Hose End-08-08FJX, ST
7	0219357	1	Nipple-1.25 x 2.00, CL	52	6601568	1	Elbow-Hyd, 90, 16MB-16MJ
8	0144066	1	Pipe Coupling, 1.25 NPT	53	3390716	1	Guard
9	7420042	2	Indicator	54	6445103	1	Coupling
10	6601571	1	Return Line Filter, 1.25 NPT	55	2670073	1	Speed Pickup
	7420219	1	Element, 10 Micron				
11	6600237	1	Thermo Switch				AR = As Required
12	3321386	1	Hyd Tank Asm, 12" x 55"				
	3321905	1	Hyd Tank Asm, 14" x 40"				
13	0219301	4	Plug-Pipe, SqHd, 0.75 NPT				
14	6600224	1	Eyesite Oil Plug				
15	3390605	1	Oil Spec. Instruction Plate				
16	6500039	1	Thermometer-2" Dial, 9" Dual				
17	3330026	1	Cap				
18	6000233	1	Gasket-2.18", Leather				
19	6600223	1	Breather				
20	6600647	1	Hose End-12 x 12MP, ST, LPSP				
21	6600648	3	Hose End-12 x 12FJX				
22	9402828	1	Elbow-Hyd, 45, 12MJ-12MP				
23	6600663	1	Hose End-08 x 08MP, ST, LPSP				
24	3311035	2	Band-12" Tank				
	3311022	2	Band-14" Tank				
25	3380853	1	Brkt Asm-Tank, LH, 12"				
	3380855	1	Brkt Asm-Tank, LH, 14"				
26	3380854	1	Brkt Asm-Tank, RH, 12"				
	3380856	1	Brkt Asm-Tank, RH, 14"				
27	6600646	2	Self Grip Hose, 0.75 (Specify Length)				
28	6303119	1	Round-0.50 CR				
29	3321374	1	Support-Pump, 40 Series				
30	0120378	2	Nut-Hex, 0.50 NC				
31	0120384	2	Lock Washer, 0.50				
32	3370337	1	Cable Asm-Pump Stroker, 42 Series				
33	6603161	1	Pump-3.1 CI,RH,EDC,Spline,A Pad				
	6603162	1	Pump-3.1 CI,LH,EDC,Spline,A Pad				
34	6602390	1	Aux Pump, 0.68 CI, A Pad, Spline, LH				
	6602391	1	Aux Pump, 0.68 CI, A Pad, Spline, RH				
	7420255	1	Seal Kit (6602390 & 6602391)				
35	9410979	2	Elbow-Hyd, 90, 12MB-12MJ				
36	9410281	1	Elbow-Hyd, 90, 08FJX-08MJ				
37	9250612	1	Hose Asm-LP (Specify Length)				
38	6600903	1	Adapter-Hyd, ST, 08MJ-10MB				
39	6600662	1	Hose-Push Lock, 0.50 (Specify Length)				
40	6601812	1	Hose End, 16-12FJX, ST				
41	9250611	1	Hose Asm-LP, 12FJX-16FJX (Specify Length)				
42	9250610	1	Hose Asm-HP (Specify Length)				
43	6603479	1	Motor-1.53 CIR,w/Loop Flush				
44	9410283	3	Elbow-Hydr,90,12FJX-12MJ				

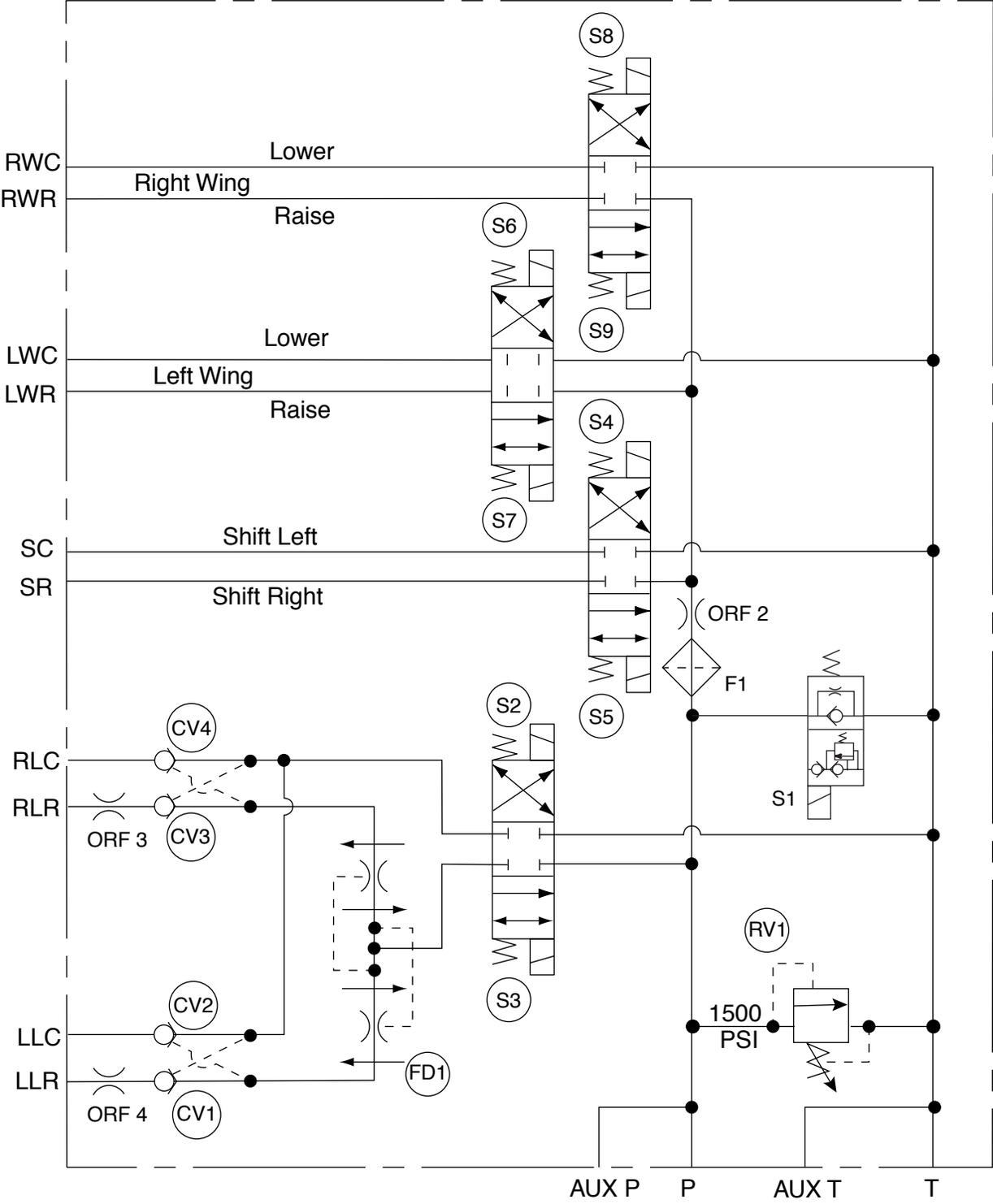
HYDRAULIC

4 Station Manifold Assembly



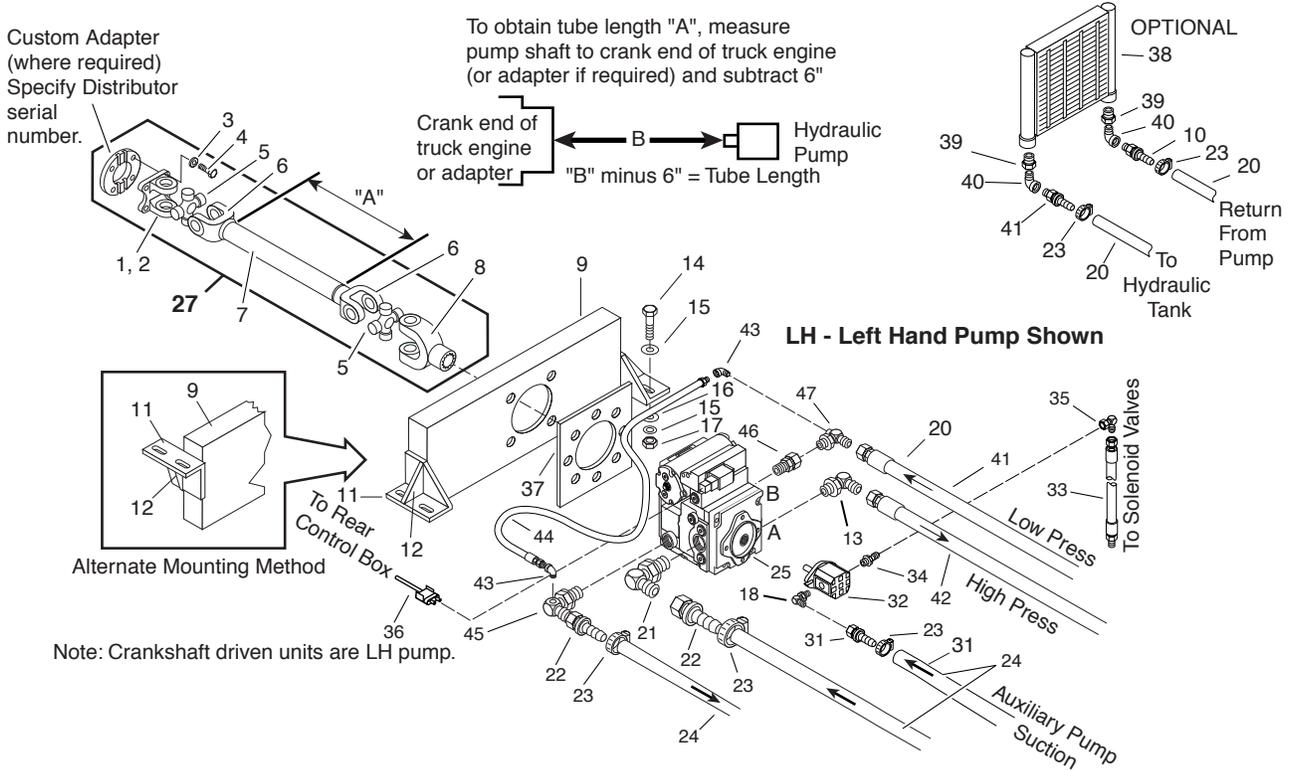
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	7230437	4	Valve-Sol,4-Way,3 Pos,Closed Ctr	21	6600662	1	Hose-Push Lock (Specify Length)
	7230438	1	Coil	22	3361099	1	Hose Asm-04 x 146,04FJX-06MPX90
2	7230434	1	Valve-Sol,2-Way,2 Pos,Open	23	3361098	1	Hose Asm-04 x 136,04FJX-06MPX90
	7230435	1	Coil	24	3361092	1	Hose Asm-04 x 180,04FJX-06MPX90
3	7230436	1	Valve-Relief,1500 psi setting	25	3361093	1	Hose Asm-04 x 160,04FJX-06MPX90
4	7230439	1	Flow Divider	26	3361095	1	Hose Asm-04 x 166,04FJX-06MPX90
5	7230433	4	Valve-Check,Pilot Oper	27	3361094	1	Hose Asm-04 x 174,04FJX-06MPX90
6	3361671	1	Hose Asm-04 x 132,04FJX-06MPX90	28	3361097	1	Hose Asm-04 x 149,04FJX-06MPX90
7	0120377	2	Nut-Hex-0.38NC	29	3361096	1	Hose Asm-04 x 126,04FJX-06MPX90
8	0120382	2	Lock Washer-0.38				
9	0179104	2	Screw-Hex,0.38NC x 4.50,Gr 2				
10	0120380	4	Lock Washer-0.25				
11	0120375	4	Nut-Hex,0.25NC				
12	9410359	2	Plug-Hyd,08MB				
13	3361672	1	Hose Asm-04 x 155,04FJX-06MPX90				
14	0121900	4	Screw-0.25NC x 1.00				
15	9410278	10	Elbow-Hyd,90,04FJX-04MJ				
16	6602356	1	Manifold Assembly (Includes Ref 1-5)				
17	3361212	1	Bracket-Mtg,4 Sta,Hyd,Manifold				
18	9410200	10	Adapter-Hyd,ST,04MB-04MJ				
19	9410203	23	Adapter-Hyd,ST,08MB-08MJ				
20	6600663	1	Hose End-08 x 08MP,ST,LPSP				

Schematic - 6602356 Hydraulic Manifold Block



HYDRAULIC

Hydrostatic Drive System - Crankshaft Driven 42 Series Pump

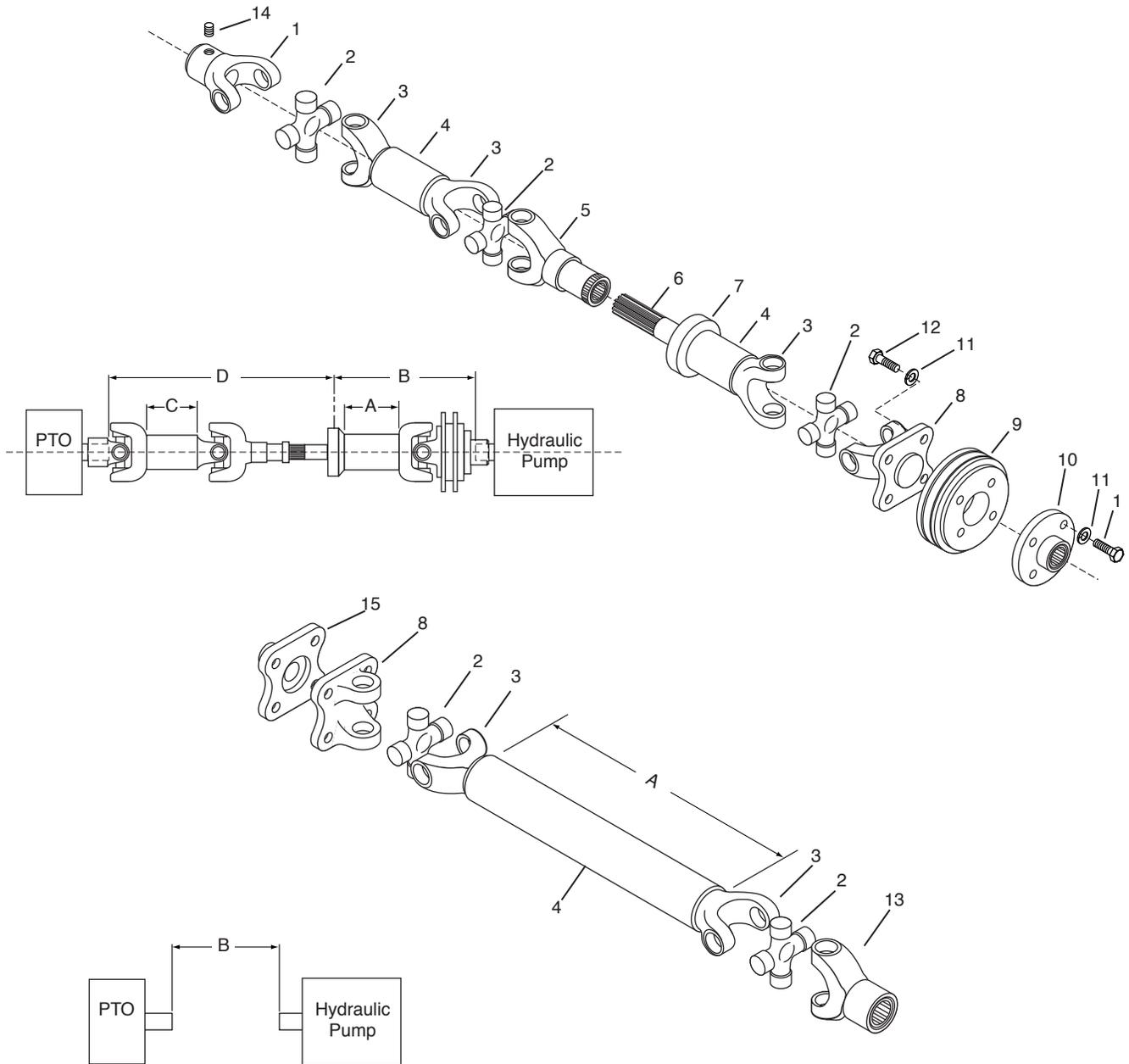


REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6440172	1	Yoke-Flange, 2.75 Male Pilot	26	9250610	AR	Hyd Hose Asm, HP (Specify Length)
2	3170021	2	Yoke-Flange, 2.38 Male Pilot	27	9301275	1	Drive Line Asm
3	0120382	4	Lock Washer, 0.38, Spring, PD	28	0120377	4	Nut, 0.38NC
4	0454904	4	Hex Screw, 0.38NC x 0.75, Gr8, PD	29	0186679	4	Hex Screw, 0.38NC x 1.25, Gr8
5	3170013	2	Journal & Bearing	30	9250611	1	Hose Asm, LP, 12FJX-12FJX (Specify Lg)
6	6440164	2	Yoke	31	6601812	1	Hose End, 12FJX, 1.00 Hose
7	6303278	AR	Tube-2.00 x 14 Ga.	32	6602390	1	Hyd Pump, 0.68CI, A Pad, Spline, LH
8	6440200	1	Yoke-End, 1.00, 15T	7420255	1	Seal Kit	
9	3321423	1	Mtg. Channel	33	9250612	1	Hose Asm, LP (Specify Length)
10	6600647	2	Hose End, 12 x 12MP, ST, LPSP41	34	6600903	1	Hyd Adapter, ST, 08MJ-10MB
11	3321330	2	Angle (S1001 - S1189 & Above)	35	9410281	1	Elbow-Hyd, 90, 08FJX-08MJ
	3321424	1	Angle, LH	36	3370247	1	Cable Asm - Pump Stroker
	3321426	1	Angle, RH	37	3321414	1	Adapter
12	3321332	2	Gusset	38	6600880	1	Oil Cooler
13	6602586	1	Elbow-Hyd, 90, 12MB-16MJ	39	0128003	2	Bushing-Pipe, 1.00 x 0.75NPT
14	0122459	4	Hex Screw, 0.50NC x 2.00, Gr2, PD	40	0141621	2	Elbow-Pipe, 90, ST, 0.75NPT
15	0120390	4	Flat Washer, 0.50A, W, PD	41	9250611	1	Hose Asm-LP, 12-16FJX-16FJX (Specify Length)
16	0120384	4	Lock Washer, 0.50, Spring, PD	42	9250610	1	Hose Asm-HP 12-16FJX-16FJX (Specify Length)
17	0120378	4	Nut, 0.50NC, PD	43	0105423	2	Elbow-Pipe, 90, St, 1/4
18	9410979	1	Hyd Elbow, 90, 12MB-12MJ	44	2660144	1	Hose Asm-04 x 22, 04MPX-04MPX
19	6600648	1	Hose End-12 x 12FJX, ST, Push Lock	45	2640935	1	Elbow-Hyd, 90, 16MB-12MJ
20	6600646	AR	Hose-Self Grip	46	6601915	1	Adapter-Hyd, St, 16MJ-16FJX
21	6601568	3	Elbow-Hyd, 90, 16MB-16MJ	47	2660208	1	Elbow-Hyd, 90, 12MB-16MJ
22	6601566	2	Hose End, 16FJX-16, ST				
23	6000792	3	Hose Clamp, Worm Drive, 1.06 to 2				
24	6601564	AR	Suction Hose, 1.00 ID, SAE 100R4				
25	6603161	1	Pump-3.1CI, RH, EDC., Spline, A Pad				
	6603162	1	Pump-3.1CI, LH, EDC., Spline, A Pad				
	7010093	1	Seal Kit (All Pumps)				
	7010095	1	Electronic Stroker (All Pumps)				

AR = As Required

Drive Line - PTO To Hydraulic Pump

42 Series Pumps

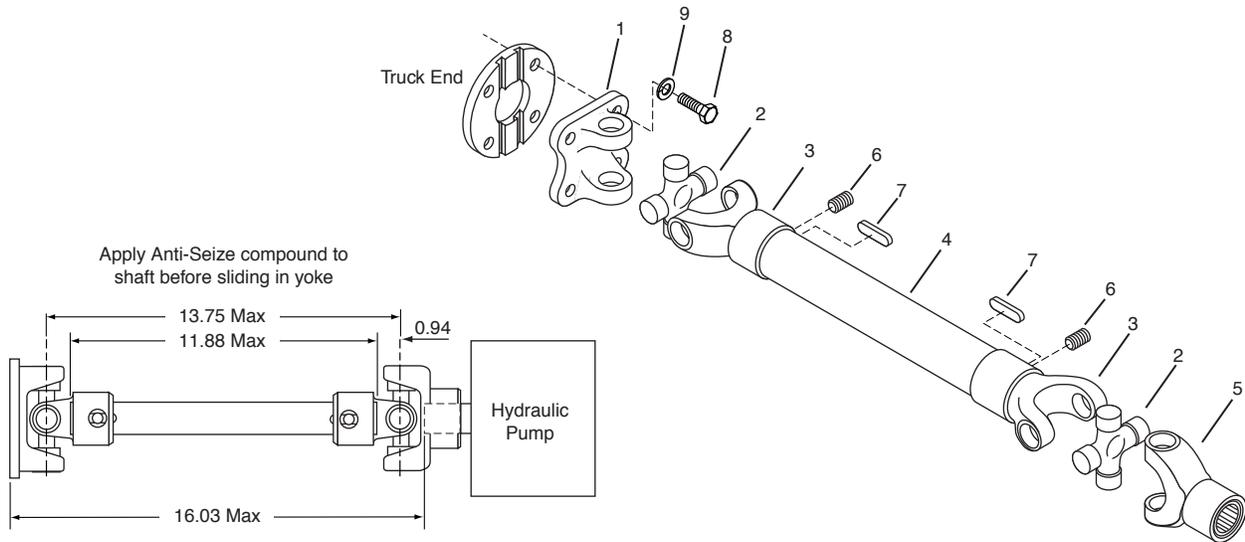


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REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6440170	1	Yoke-End	11	0120382	8	Washer-Lock, 0.38
2	3170013	AR	Journal & Bearing	12	0186679	12	Screw-Hex, 0.38NC x 1.25, Gr8, PD
3	6440164	AR	Yoke-Stub	13	6440200	1	Fitting-Yoke
4	6303278	AR	Tubing-2"OD x 14GA(Specify Length)	14	6100284	1	Screw-Sock, 0.50NC x 0.50 Lg.
5	6440165	1	Yoke Asm	15	6440213	1	Flange-Companion Rect, 1.25 Dia
6	6440166	1	Shaft-Stub				
7	6440167	1	Bearing				
8	3170021	2	Yoke-Flange				
9	3321014	1	Pulley				
10	6440206	1	Flange-Companion				

Drive Line - PTO To Hydraulic Pump - GMC Trucks

42 Series and 90 Series Hydraulic Pumps



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3170021	AR	Yoke-Flange				
2	3170013	2	Journal & Bearing Kit				
3	6440170	AR	End Yoke-1.25" Bore				
4	3321431	1	Shaft (40 Series)				
5	6440200	1	End Yoke, Splined				
6	0102615	AR	Screw-Sock, 0.50NC x 0.50Lg, Cup Pt.				
7	6000161	AR	Key-0.31 x 0.31 x 1.50 Lg.				
8	0454904	4	Screw-Hex, 0.38NC x 0.75, Gr8, PD				
9	0120382	AR	Washer-Lock, 0.38				
			AR = As Required				

Spray Bar Nozzle Chart



1

3353788



2

3351008



3

3351009



4

3352368



5

3351015



6

3352204



8

3355010



9

3352205



7,10

3352210
3355154



11

3351014



12

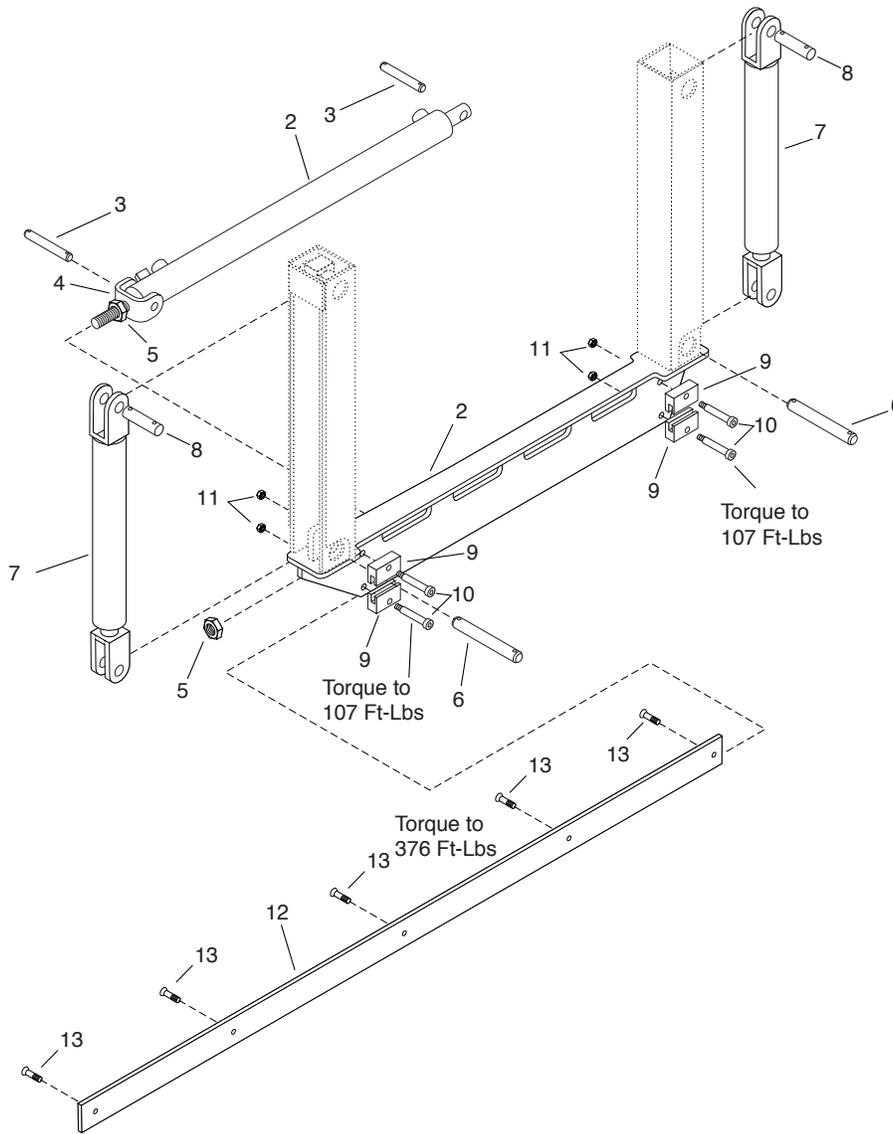
3351010

Ref.	Part No.	Description	Application Gallons Per Square Yard	Application (Metric) Liters Per Square Meter	US Flow Gallons Per Minute Per Foot
1	3353788	V Slot Tack Nozzle 1/8" Rifle Bored	.05 – .20	.23 – 0.91	3.0 – 4.5
	3351013*	V Slot Tack Nozzle 1/16" Coin Slot	.05 – .20	.23 – 0.91	3.0 – 4.5
	3354904	V Slot Tack Nozzle 1/8" Counterbored	.05 – .20	.23 – 0.91	3.0 – 4.5
2	3351008	S36-4 V Slot	.10 – .35	.45 – 1.58	4.0 to 7.5
3	3351009	S36-5 V Slot	.18 – .45	.81 – 2.04	7.0 to 10.0
4	3352368	Multi-Material V Slot	.15 – .40	.68 – 1.81	6.0 to 9.0
5	3351015	3/32" Coin Slot	.15 – .40	.68 – 1.81	6.0 to 9.0
6	3352204	Multi-Material V Slot	.35 – .95	1.58 – 4.30	12.0 to 21.0
7	3355154	End Nozzle (use with 3352204 nozzle)	.35 – .95	1.58 – 4.30	12.0 to 21.0
8	3355010	Multi-Material V Slot	.29 – .72	1.31 – 3.26	10.0 – 16.5
9	3352205	Multi-Material V Slot	.20 – .55	.91 – 2.49	7.5 to 12.0
10	3352210	End Nozzle (use with 3352205 nozzle)	.20 – .55	.91 – 2.49	7.5 to 12.0
11	3351014	3/16" Coin Slot	.35 – .95	1.58 – 4.30	12.0 to 21.0
12	3351010	1/4" Coin Slot	.40 – 1.10	1.81 – 4.98	15.0 to 24.0

* Special Order

SPRAY SYSTEM

Spray Bar Shift And Lift

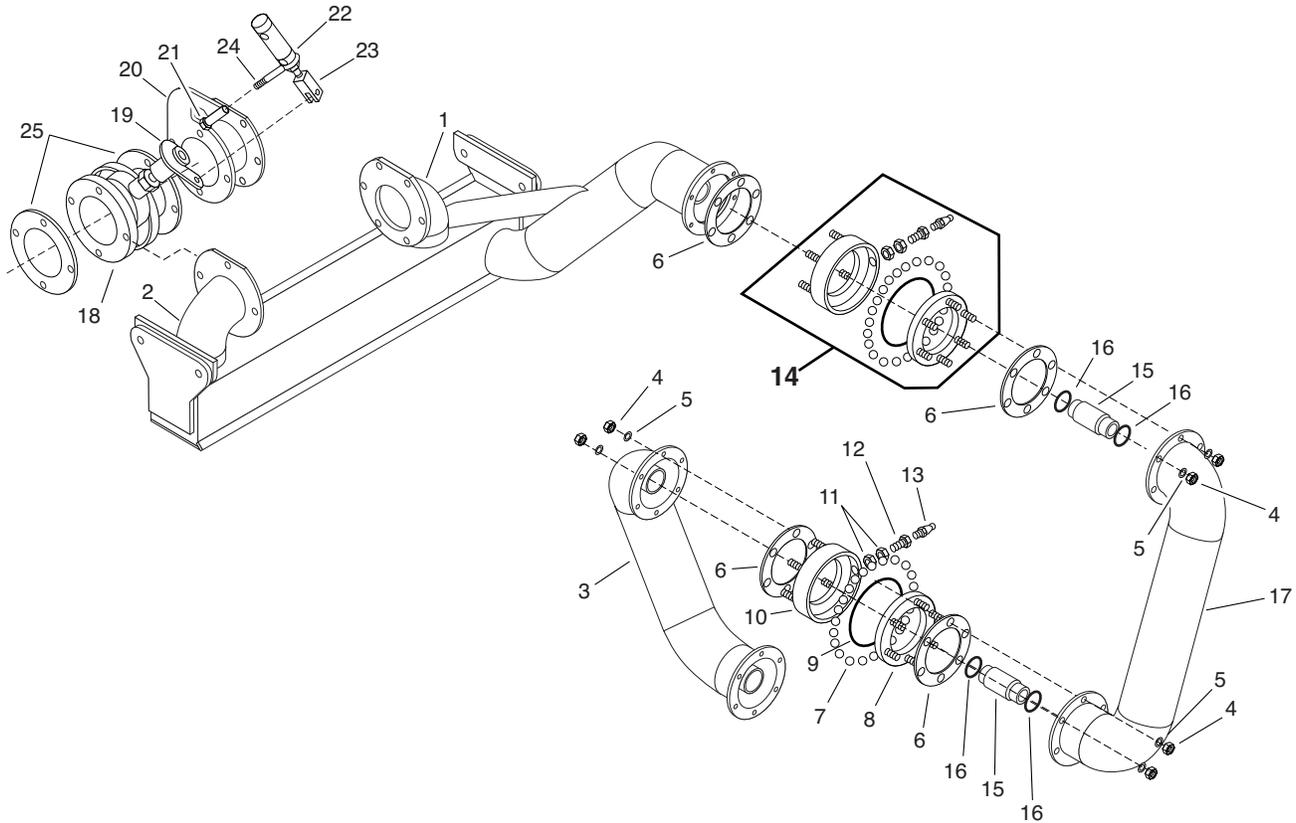


SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3353714	1	Carrier-Spraybar				
2	6603416	2	Cylinder-Hyd,,2" x 24"				
3	3353325	2	Pin-Shift				
4	3353324	2	Clevis Asm-Shift				
5	0426899	2	Nut-Hex,1" Jam				
6	3353227	2	Pin-Height Adjuster,Lift Cyl				
7	6602876	2	Cyl-Hyd,2 x 14				
8	3311654	2	Pin				
9	3353298	4	Shoe-Carrier				
10	6001639	4	Bolt-Shoulder, 0.625" x 1.25", Soc Sc				
11	6100072	4	Nut-Hex,1/2NC,Gr 8				
12	3353675	1	Slide Plate				
13	6001641	5	Screw-Socket,Flat,1/2NC x 1 1/4,PD				

Circulation Lines

SPRAY SYSTEM

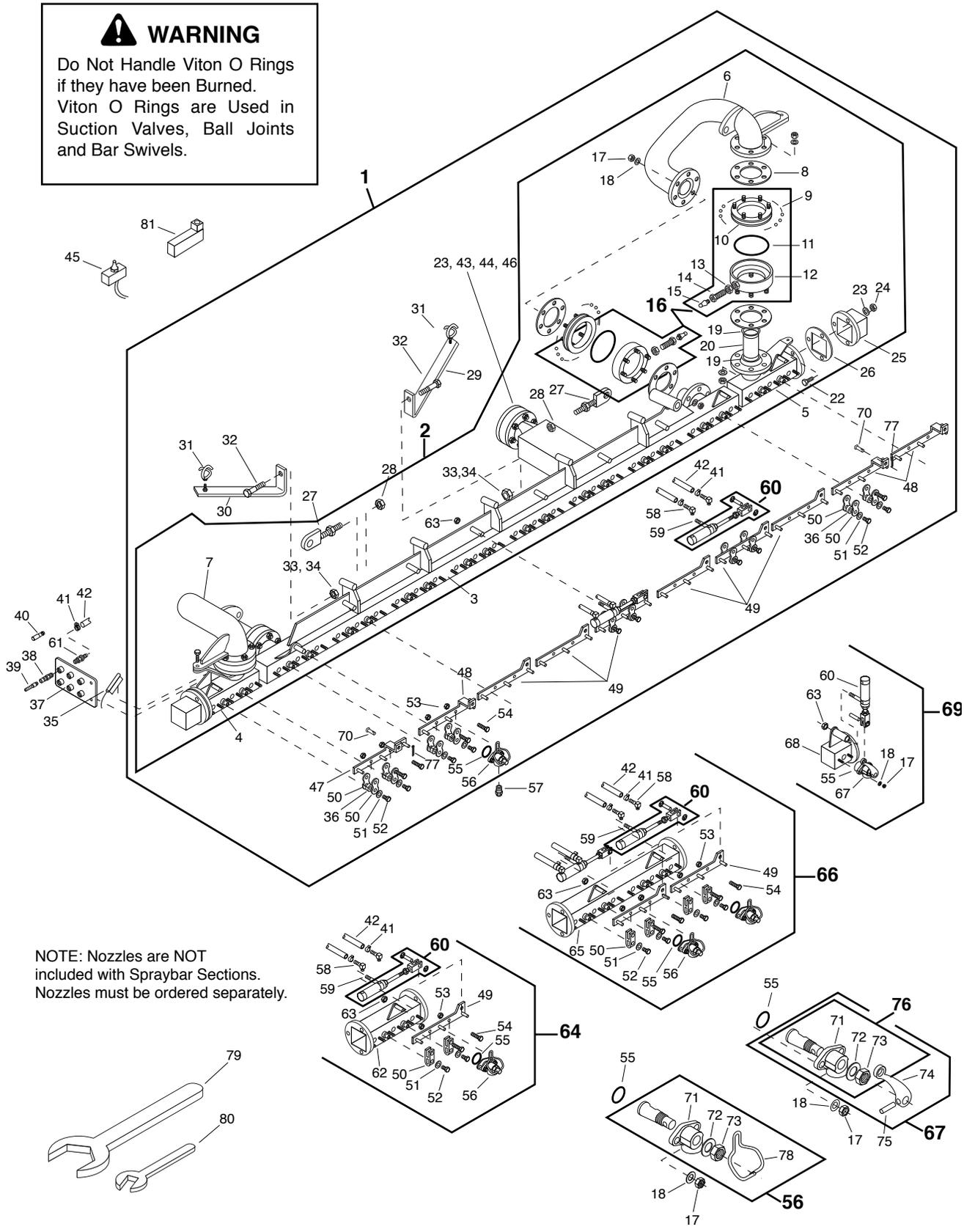


REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3353717	1	Tube Asm-Center Weldment	15	3353483	4	Tube-Swivel, Inner
2	3342230	1	Tube Asm-Feed	16	6603149	12	O-Ring-Viton, 1.762 ID x .139 Thk
3	3342092	1	Tube Asm-Feed	17	3342095	1	Tube Asm
4	0120376	48	Nut-0.31NC, PD	18	3301208	1	Butterfly Valve Assembly
5	0120214	48	Lock Washer- 0.31, Spring, PD	19	2680665	1	Lever Assembly-Butterfly Valve
6	3352615	8	Gasket	20	3342229	1	Adapter-4Way to Butterfly
7	6000290	47	0.38 Steel Balls	21	9411638	1	Nut-Hex, Lock, 0.32NC, Ea, PD
8	3352605	1	Plate Asm Outlet-3.5 Swivel	22	6601768	1	Cylinder-Air, 1.06 x 2
9	6602669	1	O Ring,5.5 OD x 0.25	23	6602339	1	Clevis-Rod
10	3352607	1	Plate Asm-Inlet,3.5 Swivel	24	6100280	1	Bolt-Eye, 0.31NC x 1.00, PD
11	0272123	2	Nut-Jam,0.44NF, PD	25	2640941	2	Gasket - Flange, Bar Feed
12	2740371	1	Grease Fitting				
13	9411027	1	Grease Zerk				
14	7230219	4	Swivel Asm (Includes Item #7-13)				

Spray Bar Assembly

WARNING
 Do Not Handle Viton O Rings if they have been Burned.
 Viton O Rings are Used in Suction Valves, Ball Joints and Bar Swivels.

SPRAY SYSTEM



Spray Bar Assembly

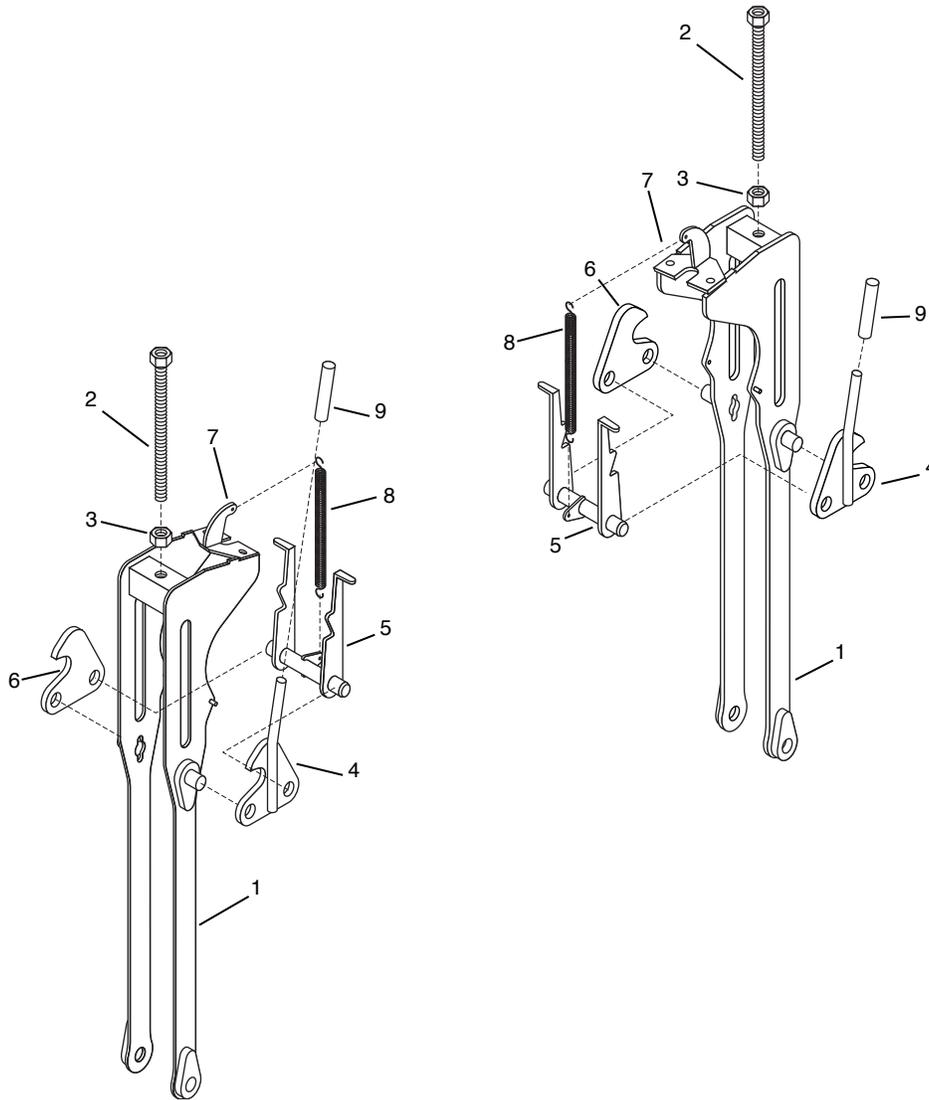
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3353704	1	Spraybar 10' Weldment	55	6602895	30	O-Ring
2	3353705	1	Spraybar 10' Asm, 1' Incr.	56	3352743	30	Flip Valve Asm
3	3353706	1	Center 8' Weldment	57	3351013	AR	Nozzle - 0.06
4	3353136	1	LH - 1' Stub Wing Asm		3351014	AR	Nozzle - 0.19
5	3353134	1	RH - 1' Stub Wing Asm		3351008	AR	Nozzle - 0.25
6	3353124	1	RH Hinge Asm		3351009	AR	Nozzle - 0.31
7	3353123	1	LH Hinge Asm		3351015	AR	Nozzle - 0.093
8	3352615	8	Gasket		3352368	AR	Nozzle - 0.25 Bore
9	6000290	47	0.38 Steel Balls		3351010	AR	Nozzle - 0.469
10	3352605	1	Plate Asm Outlet, 3.5 Swivel		3352204	AR	Nozzle - - V Type, Nominal 5.0 GPM
11	6602669	1	O Ring, 5.5 OD x 0.25		3352205	AR	Nozzle - - V Type, Nominal 3.5 GPM
12	3352607	1	Plate Asm, Inlet, 3.5 Swivel		3352210	1	End Nozzle Asm - 3352205
13	0272123	1	Nut-Jam, 0.44NF, PD	58	6602242	20	Hose End, 0.19 Hose x 0.12MPT,90
14	2740371	1	Grease Fitting	59	6100280	10	Eye Bolt, 0.31 x 2.5, PN
15	9411027	1	Grease Zerk	60	6601768	10	Air Cylinder, 1.06 x 2.00
16	7230219	4	Swivel Asm		6602339	1	Rod Clevis
17	0120376	108	Nut, 0.31NC, PD	61	6602241	20	Hose End, 0.19 Hose x 0.12MPT, ST
18	0120214	108	Lock Washer, 0.31, Spring, PD	62	3352693	1	Bar Asm - 1' Extension
19	3352245	1	Part Of Item 4 & 5	63	9411638	10	Locknut, 0.31NC, EA, PD
20	3352595	1	Part Of Item 4 & 5	64	7230378	AR	Spraybar Ext. 1', W/Air Vlvs 6601455
21	3352810	1	Part Of Item 4 & 5		7230231	AR	Spraybar Ext. 1', W/O Vlvs
22	0180124	6	Screw, 0.38NC x 1.50, GR2, PD	65	3352697	1	Bar Asm - 2' Extension
23	0120382	14	Lock Washer, 0.38, Spring, PD	66	7230379	AR	Spraybar Ext. 2', W/Air Vlvs 6601455
24	0120377	6	Nut, 0.38NC PD		7230230	AR	Spraybar Ext. 2', W/O Vlvs
25	3352624	2	End Cap Asm	67	3352731	1	Valve & Lever Asm - RH
26	3352592	2	Gasket		3352740	1	Valve & Lever Asm - LH
27	3352591	2	Rod End Asm	68	3352732	1	Tube Asm - RH
28	0220088	4	Nut-1"		3352735	1	Tube Asm - LH
29	3352854	1	Hose Hook Bracket, RH	69	3352733	1	Marker Asm - RH
30	3352855	1	Hose Hook Bracket, LH		3352734	1	Marker Asm - LH
31	3380529	2	Hose Ring Asm	70	6000397	2	Rivet-RdHd, 0.25 x 0.88, Drilled
32	0122433	2	Screw, 0.50NC x 1.50, GR2, PD	71	3351787	1	Body
33	0120378	2	Nut, 0.50NC, PD	72	3351620	1	Washer
34	0120384	2	Lock Washer, 0.50, Spring, PD	73	6100246	1	Jam Lock Nut, 0.50NF
35	6702533	2	Mercury Switch	74	3350455	1	Lever
36	2650636	10	Spacer-Guide Lever	75	0443139	1	Grooved Pin, 0.16 x 0.75, E, PD
37	3361231	2	Bracket Asm (6)	76	3352730	1	Valve Asm - RH
	3361226	2	Bracket Asm (12)		3352736	1	Valve Asm - LH
38	6602243	AR	Quick Coupler, Mini, 0.12MPT	77	0103374	2	Cotter Pin, 0.09 x 1.00, PD
39	6602244	AR	Nipple, 0.19	78	3352483	1	Flip Lever
40	3353302	AR	Dummy Plug	79	3380079	1	Union Wrench - 2"
41	6001005	20	Hose Clamp, Screw Type, M5	80	6000376	1	#5 Armstrong Wrench
42	6309255	AR	Hose, 0.19 ID/Ft.	81	6604037	AR	Air Valve, 2 Pos, 4 Way, 12 VDC
43	3352610	2	Ball Case		7420231	AR	Gasket
44	3352614	2	Gasket		7215169	AR	Repair Kit
45	6703151	1	Toggle Switch, DPDT				
46	0426370	8	Allen Head Bolt, 0.38NC x 1.00				
47	3352753	1	Buss Bar Asm, Left End				
48	3352581	3	Buss Bar Asm, RT Hinge Section				
49	3352754	6	Buss Bar Asm				
50	2650637	40	Guide Lever				AR = As Required
51	0120388	20	Flat Washer, 0.38				
52	0121852	20	Screw, 0.38NC x 0.50, GR2, PD				
53	9413946	20	Lock Nut, 0.25NC ,EA, PD				
54	0133046	20	Machine Screw, 0.25 x 0.88, PD				

NOTE: Nozzles are NOT included with Spraybar Sections. Nozzles must be ordered separately.

AR = As Required

SPRAY SYSTEM

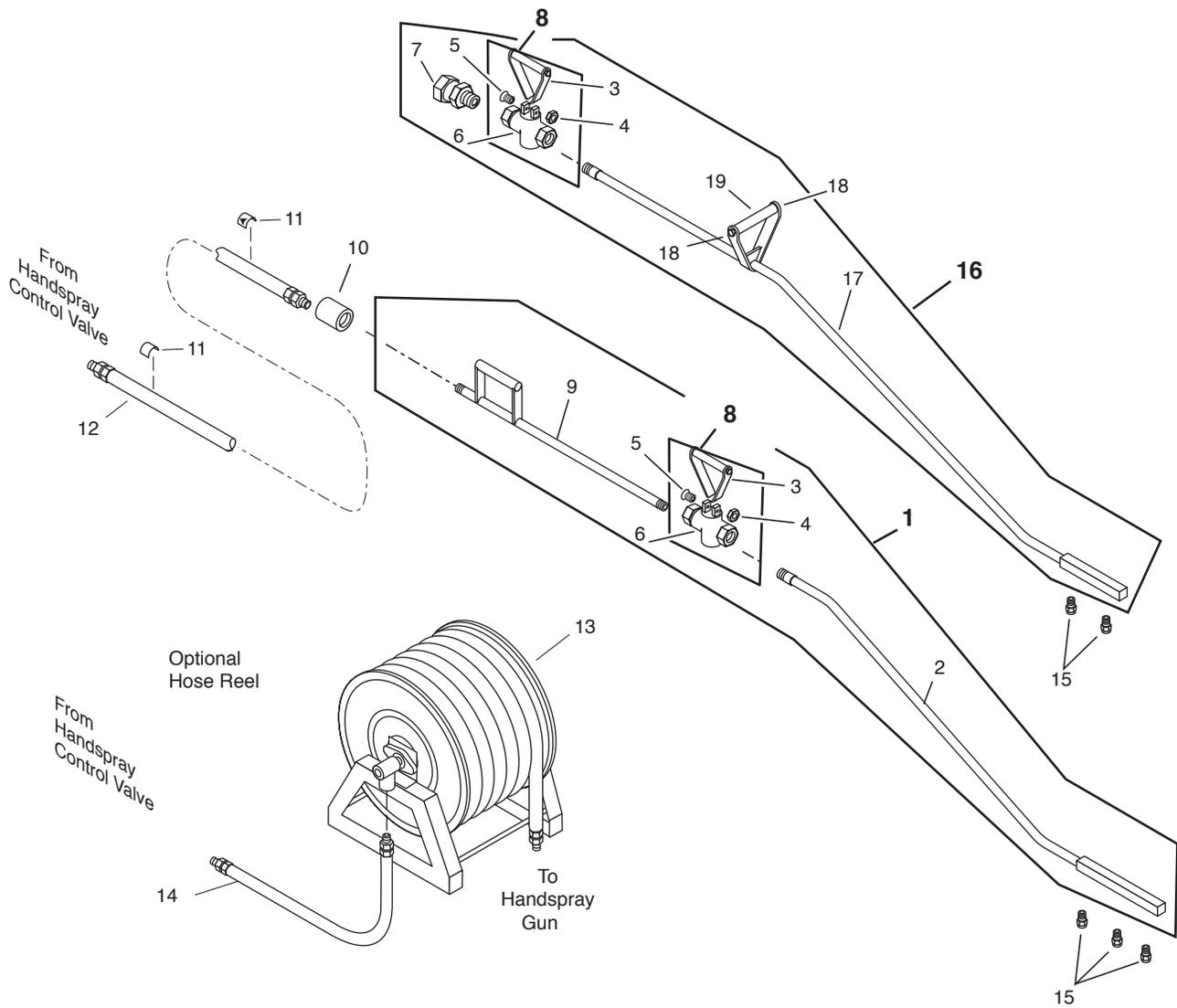
Bar Latch - Manual



SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3353719	1	Height Adjuster Assembly				
2	3353693	1	Height Adjuster Screw Assembly				
3	0220088	1	Nut, Hex, 1.00NC				
4	3353728	1	Bar Latch Asm-Manual Left				
	3353727	1	Bar Latch Asm-Manual Right				
5	3353729	1	Manual Bar Latch Pin Assembly				
6	3353691	1	Plate-Bar Latch				
7	3353726	1	Latch Spring Holder Assembly				
8	3360269	1	Spring-Bitumeter Wheel Tach				
9	4420933	1	Handgrip-Gear Shift Lever				

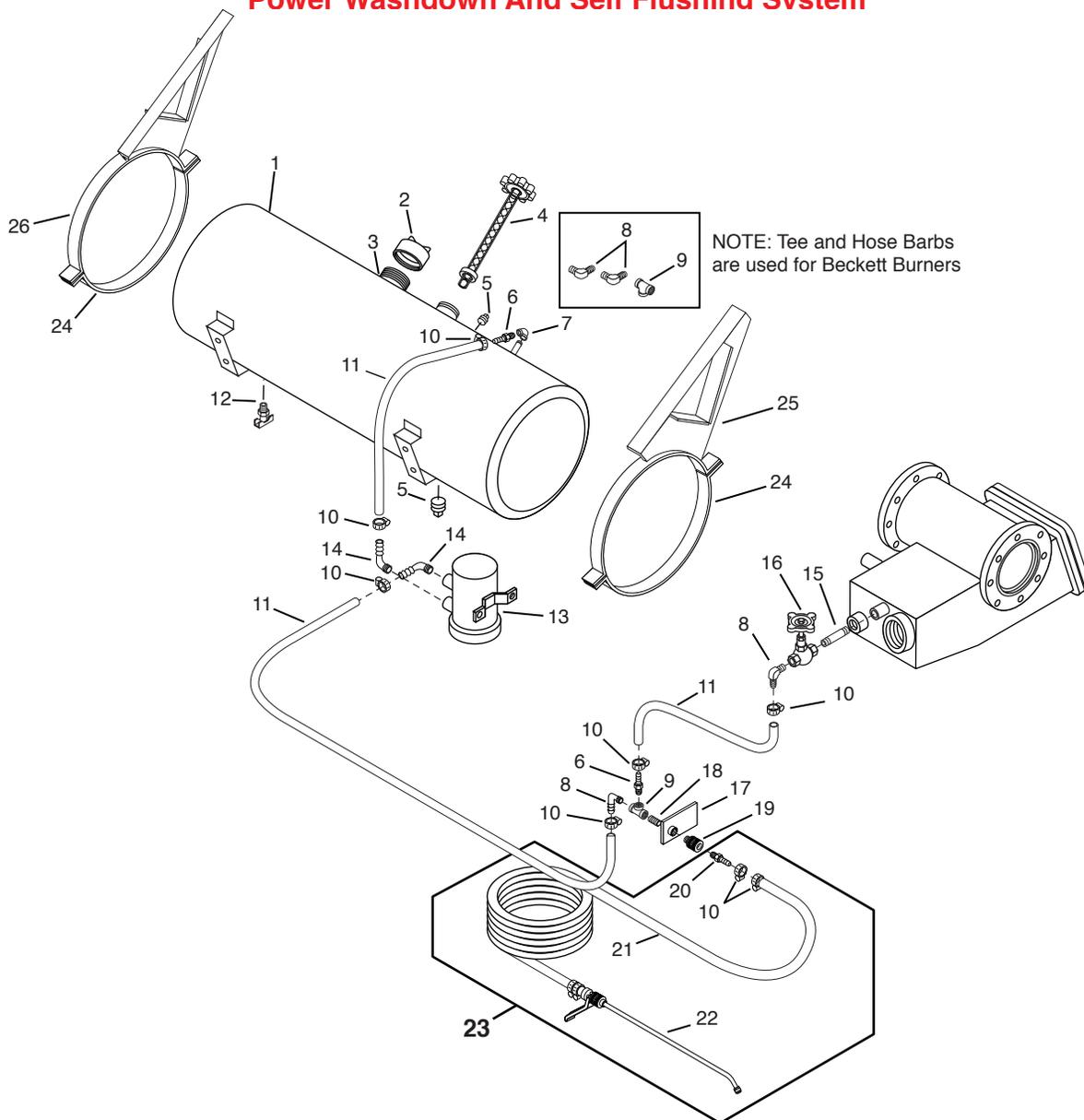
Handspray



SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3380785	1	Steel Handspray Wand	16	3380914	1	Aluminum Handspray Wand
2	3380788	1	Tube Asm-Offset, Handspray Gun	17	3380915	1	Aluminum Handspray Tube
3	3380791	1	Bracket-HS Valve Handle	18	6100653	4	Lag Screw-1/4 x 1 1/2
4	6100441	1	Nut-Hex, Lock, Jam, 7/16NF, PD	19	3380919	2	Wood Handle
5	3380052	1	Handle-Handspray	20	3380920	1	Valve-Aluminum Handspray
6	6602237	1	Valve-Ball, 3/4 Bronze	21	3380890	1	Handle-3/4" Ball Valve
7	0436732	1	Screw-Mach, PNSL, 10NC x 0.50	22	6603430	1	Swivel-Hydr, Viton, 12MP-12FP
8	3380784	1	Valve Asm-Hand Spray Gun				
9	3380787	1	Tube Asm-Handspray Gun				
10	0111661	1	Coupling-Pipe, 3/4, Plain				
11	3390591	2	Tag-Caution, Handspray Hose				
12	6602720	1	Hose-Handspray, 3/4 In x 25 Ft				
13	6602020	1	Hose Reel 4016-17-18 Manual				
14	6601368	1	Hose Asm-1 x 60, Asphalt				
15	3352205	AR	Nozzle-V Type, Nominal 3.5 GPM				

Power Washdown And Self Flushing System

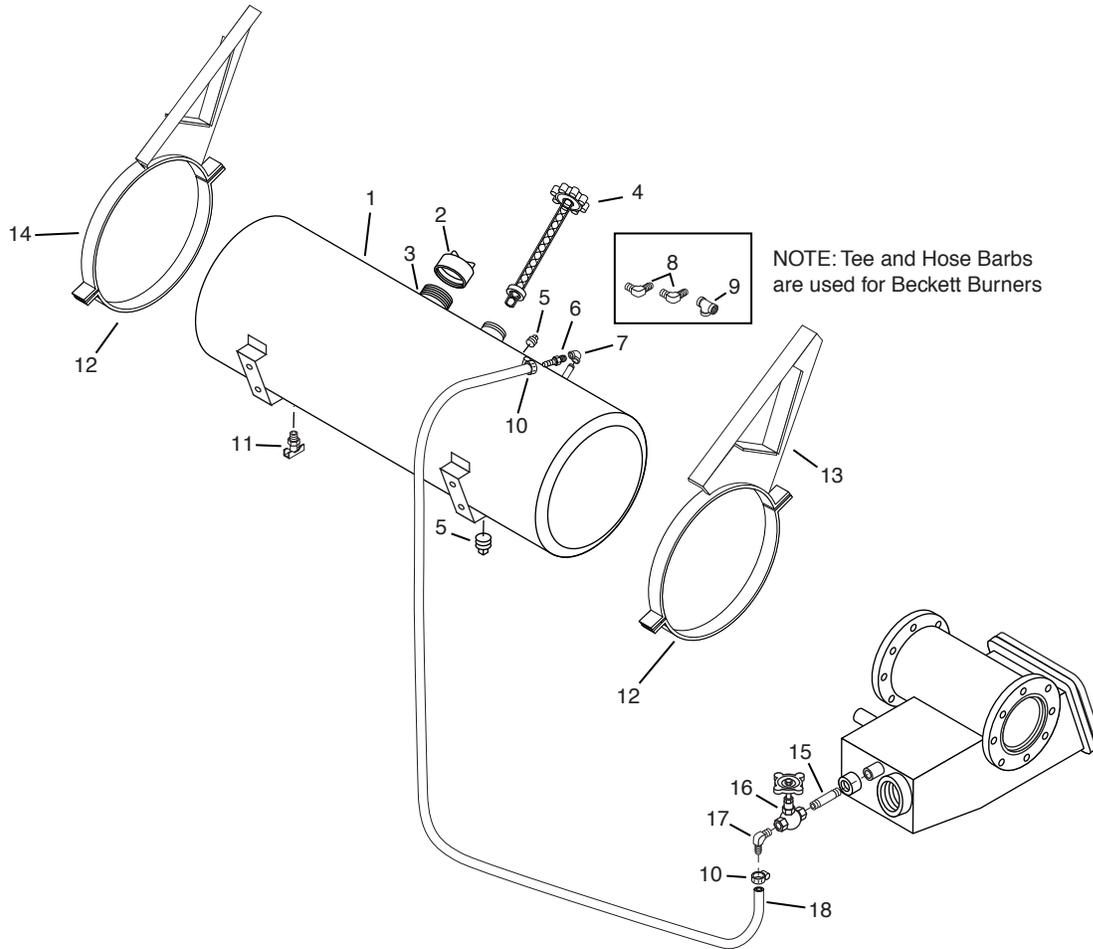


SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3380857	1	Fuel Tank Asm, 12" x 50"	16	6600303	1	Valve-Globe, 0.25, ST
	3380858	1	Fuel Tank Asm, 14" x 42"	17	3331875	1	Bracket Asm
2	6100235	1	Filler Cap	18	0105405	1	Nipple-0.25 x 0.88, CL
3	3360180	1	Plate - FILL W/DIESEL FUEL ONLY	19	6601821	1	Coupling-Quick Connect, 0.25NPT
4	6601306	1	Gauge-Liquid, 12" Tank	20	6601820	1	Nipple-Quick Connect, 0.25
	6601307	1	Gauge-Liquid, 14" Tank	21	6600324	AR	Hose-0.38 (Specify Length)
5	0219189	2	Plug-Pipe, SqHd, 0.25	22	4480132	1	Wand
6	6445028	2	Hose End-04 x 04MP, ST	23	3361014	1	Hose & Wand Asm - 26'
7	0105413	1	Elbow-Pipe, 0.25NPT	24	3311035	2	Band - 12" Tank
8	6602400	2	Hose Barb-04 x 04MP90		3311022	2	Band - 14" Tank
9	0105417	1	Tee-0.25NPT	25	3380853	1	Brkt Asm-Tank, LH, 12"
10	6001005	8	Clamp-Hose, Screw Type, M5		3380855	1	Brkt Asm-Tank, LH, 14"
11	6601452	AR	Hose, 0.25 (Specify Length)	26	3380854	1	Brkt Asm-Tank, RH, 12"
12	6600162	1	Drain Cock, 0.25		3380856	1	Brkt Asm-Tank, RH, 14"
13	6500416	1	Pump-Fuel, Electric, 12V				
14	6602399	2	Hose Barb-04 x 02MP90				
15	0119920	1	Nipple, 0.25 x 2.00				

AR = As Required

Fuel Tank Assembly And Self Flushing Line



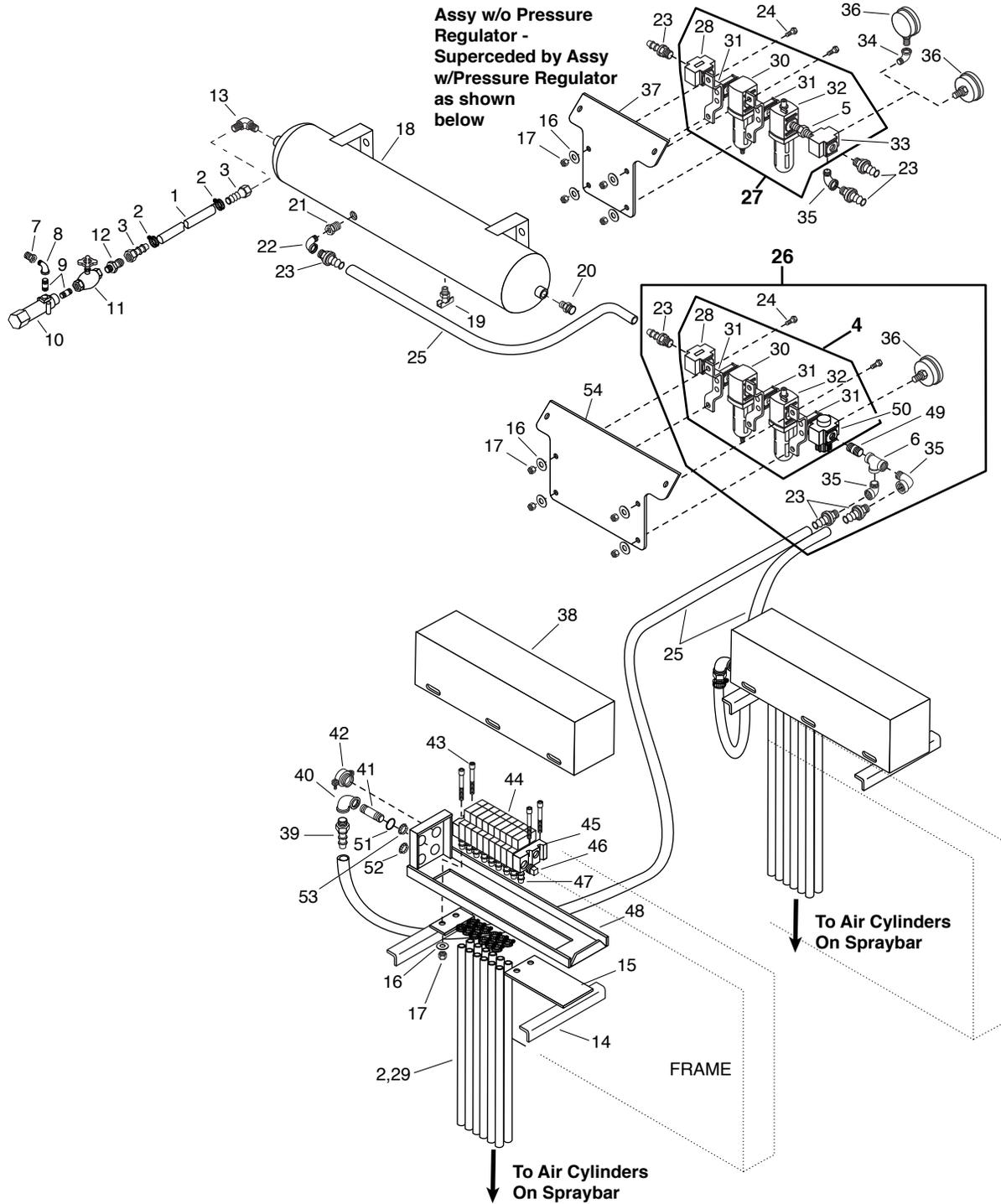
SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3380857	1	Fuel Tank Asm, 12" x 50"	13	3380853	1	Brkt Asm-Tank, LH, 12"
	3380858	1	Fuel Tank Asm, 14" x 42"		3380855	1	Brkt Asm-Tank, LH, 14"
2	6100235	1	Filler Cap	14	3380854	1	Brkt Asm-Tank, RH, 12"
3	3360180	1	Plate-Fill with Diesel Fuel Only		3380856	1	Brkt Asm-Tank, RH, 14"
4	6601306	1	Liquid Level Gauge, 12" Tank	15	0119920	1	Nipple-Sch 40, 0.25 x 2.00,PN
	6601307	1	Liquid Level Gauge, 14" Tank	16	6600303	1	Globe Valve, 0.25 In., ST
5	0219189	1	Pipe Plug, 0.25, SqHd	17	6602402	1	Hose Barb-06 x 04MP90, LP
6	6601794	1	Hose End-04 x 04MPX, ST, MP	18	6600324	AR	Hose-0.38 Per Ft.
7	0105413	1	Elbow-PP, 90, 0.25NPT				AR = As Required
8	6602400	1	Hose Barb-04 x 04MP90, LP				
9	0105417	1	Tee-Pipe, 0.25NPT				
10	6001005	2	Hose Clamp, Screw Type, MS				
11	6600162	1	Drain Cock-0.25"				
12	3311035	2	Band - 12" Tank				
	3311022	2	Band - 14" Tank				

Air Supply

Spraybar Controlled in 1' Increments

Frame Mounted Air Valves



Air Supply

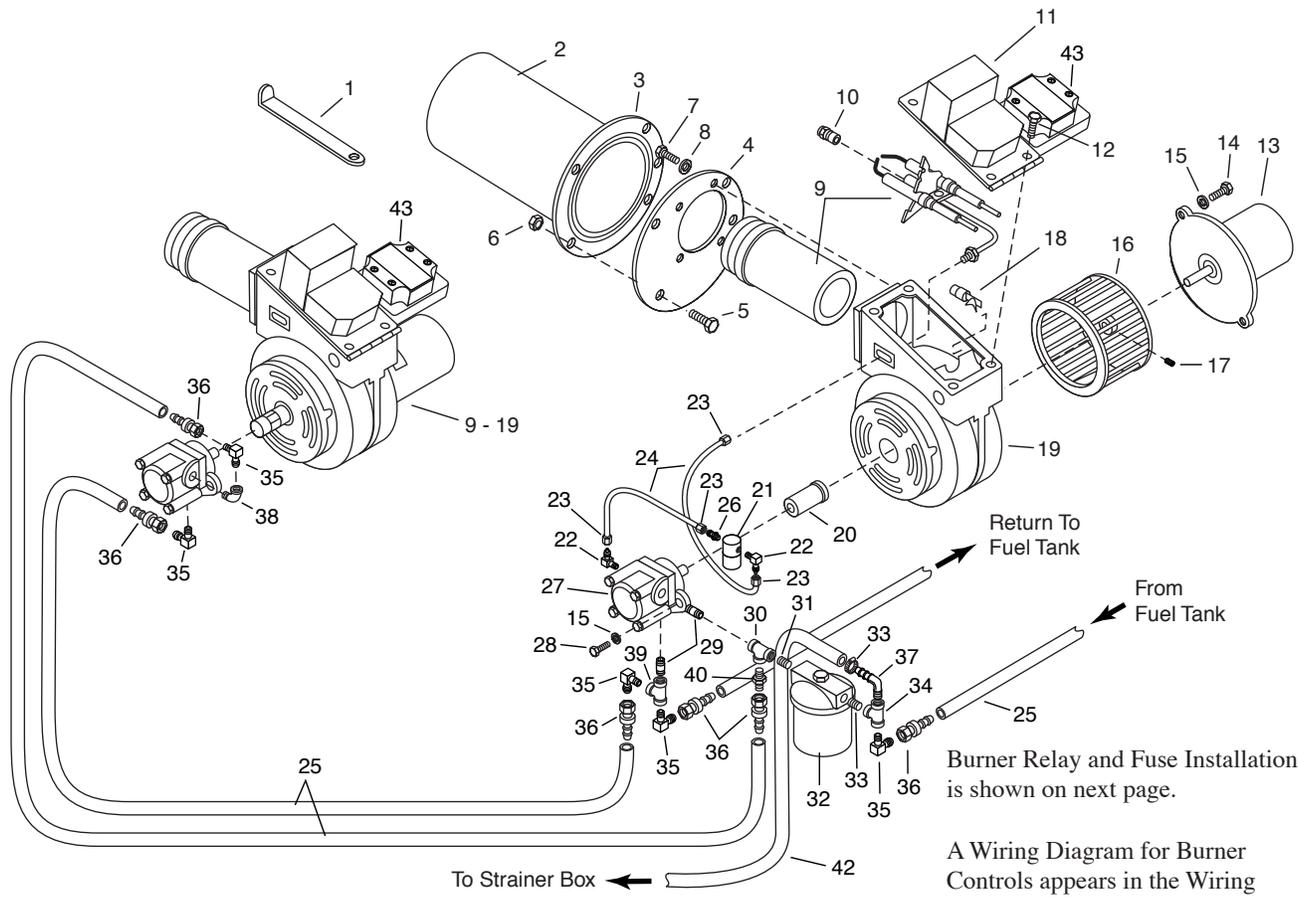
Spraybar Controlled in 1' Increments

Frame Mounted Air Valves

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6600324	AR	Hose-Hyd,0.38,300 WP/FT	45	6601456	2	Plate-End,Spraybar Cont Valve
2	6001005	AR	Clamp-Hose,Screw Type,M5	46	0219191	2	Plug-Pipe,SqHd,0.38NPT, PN
3	6600306	2	Hose End-06 x 06FSX,ST,LPSP	47	6602575	AR	Hose End,03 x 04MP,ST
4	6602982	1	Filter/Regulator/Lubricator Assy	48	3361233	2	Air Valve Mtg. Brkt Asm S2000
5	6601714	1	Adapter-Hydr,St,08MP-08MP	49	6200601	1	Nipple-Pipe,0.50 CI,PD
6	0144035	1	Tee-Pipe,0.50,PD	50	7050144	1	Regulator
7	0119931	1	Bushing-PP,0.38 x 0.25NPT,PN	51	6703407	2	Grommet
8	0105423	2	Elbow-PP,90,ST,0.25NPT,PN	52	6703406	2	Plug-Button,1"
9	0105407	2	Nipple-PP,Sch 40,0.25 x 1.50,PN	53	6700723	2	Plug-Knockout,3/4"
10	6600304	1	Valve-Pressure Regulator	54	3361305	1	Bracket-Mtg. Modular Filter/Reg/Lub.
11	6600303	1	Valve-Globe,Straight,0.25 Disc				AR = As Required
12	0118750	1	Adapter-Auto,ST,04MP-06MS				
13	6200179	1	Elbow-Flared Tube,Leggett 10F33				
14	3361227	4	Angle-Mtg. Air Vlv Box				
15	3360832	2	Support Plate-Air Val Mount Br				
16	0120386	12	Washer-Flat,0.25A(0.31 x 0.73),PD				
17	9413946	12	Nut-Hex,Lock,0.25NC,EA,PD				
18	6603024	1	Reservoir-Air 6.00 x 35.2				
19	6600162	2	Cock-Drain,0.25 In. Spanco Brs.				
20	6600299	1	Vlv-Safety,Midland 110715				
21	0144034	1	Bushing-PP,0.75 x 0.50NPT,PN				
22	0108686	3	Elbow-PP, 90,ST,0.50NPT,PN				
23	6600663	4	Hose-End,08 x 08MP,ST,LPSP				
24	0121887	4	Screw-Hex,0.25NC x 0.75,GR2,PD				
25	6600662	AR	Hose-Push Lok,Parker 801-8				
26	3361306	1	Kit-Filter/Reg/Lub Asm-Wilkerson				
27	6602818	1	Filter/Reg/Lub Wilkerson				
28	7050060	1	Safety Lockout Valve, 1/2"				
29	6309255	AR	Hose-Fuel,0.19 ID/FT				
30	7050059	1	Filter W/Auto Drain, 1/2"				
	7050067	1	Filter				
	7050065	1	Bowl/Guard				
	7050066	1	O Ring				
31	7050061	3	Joiner				
32	7050058	1	Lubricator,1/2"				
	7050064	1	Bowl/Guard				
	7050066	1	O Ring				
33	7050320	1	Diverter Block, 1/2"				
34	0144112	1	Elbow-Pipe,90,ST,0.25NPT,PD				
35	0127961	2	Elbow-Pipe,90,ST,0.50NPT,PD				
36	6600168	1	Gauge-Pres,2.5 In.,150 PSIG,Bott Port				
	6602992	1	Gauge-Pres,2.5 In.,150 PSIG,Back Port				
37	3361263	1	Bracket-Mtg. Modular Filter/Lub.				
38	3360859	2	Lid-Air Valve Mounting Bracket				
39	6602128	2	Hose End-08 x 06MP, ST,LPSP				
40	0119097	2	Elbow-PP,90,0.38NPT,PN				
41	0120128	2	Nipple-PP,Sch 40,0.38 x 3.50,PN				
42	6701510	2	Connector-Romex,0.75 Trac				
43	0138207	8	Cap-Screw-Hex,Skt. 1/4-20 x 2 1/4				
44	6604037	AR	Valve-Air,2 Pos,4 Way,12VDC, Mac				
	7420231	1	Gasket-Stacking,Air Valve,Mac				
	7215169	1	Kit-Repair Spl Mac Vlv 6601455				
	7530034	1	Sol & Pilot Asm for 6601455				

AIR SYSTEM

Fuel Oil Burner Installation



Burner Relay and Fuse Installation is shown on next page.

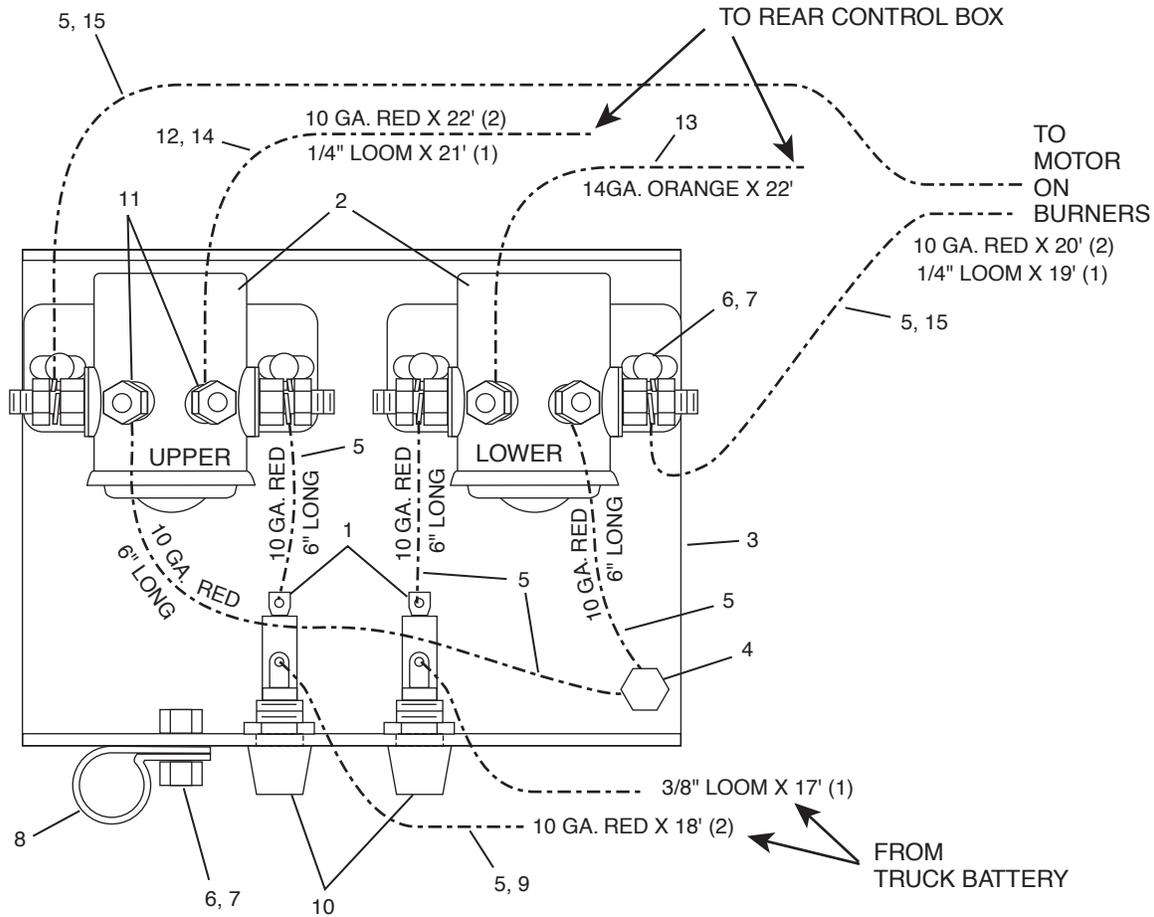
A Wiring Diagram for Burner Controls appears in the Wiring Diagrams section in the back of this manual

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331270	1	Holder-Hi Press. Comb Tube	24	6309067	AR	Tube-Copper, 0.19 x 0.03, Generic
2	6500041	1	Tube-Combustion	25	6600324	AR	Hose-0.38 Per Ft
3	3331277	1	Flue-Mtg. Beckett	26	0120703	1	Union-Half, 3/16TBG x 1/8NPT
4	3331308	1	Flange-Burner Mount	27	6500399	1	Fuel Pump
5	0120233	4	Screw-Hex, 0.38NC x 1.00, Gr2, PD	28	0122017	2	Screw-Hex, 0.31NC x 1.00, Gr2, PD
6	0274993	4	Nut-Hex, Lock, 0.38NC, EA, PD	29	0105407	2	Nipple-Sch 40, 0.25 x 1.50, PN
7	0121887	4	Screw-Hex, 0.25NC x 0.75, Gr2, PD	30	0281839	1	Tee-Pipe, 0.38 x 0.25 x 0.25NPT, PN
8	0120238	4	Nut-Hex, Jam, 0.50NC, PD	31	0121207	1	Nipple-PP, Sch 40, 0.38 x 1.00, CI, PN
9	6500337	1	Burner Air Tube-7.5" Tube Length	32	6500342	1	Filter Asm
10	6500395	1	Nozzle-2.0 GPH, 30 Solid	7730001		1	Filter Element-Oil, Replacement
11	6500397	1	Transformer-Ignition	33	6001005	1	Clamp-Hose, Screw Type M5
12	0120706	4	Screw-Hex, 0.25NC x 0.50, Gr2, PD	34	0218233	2	Tee-Pipe, 0.25 x 0.25 x 0.38NPT, PN
13	6500386	1	Motor-Elect., 14 Volt 3450 RPM	35	0118755	4	Elbow-Auto, 90, 04MP-06MS
14	0122007	2	Screw-Hex, 0.31NC x 0.75, Gr2, PD	36	6600306	6	Hose End-06 x 06FSX, ST, LPSP
15	0120214	4	Washer-Lock, 0.31, Spring, PD	37	6602400	1	Hose BARB-04 x 04MP, 90 Deg-LP
16	6500388	1	Blower Wheel-6.25 Dia.	38	0105423	1	Elbow-Pipe, 90, ST, 0.25NPT, PN
17	0139010	1	Screw-Sock, 0.25NF x 0.32, Cup, PN	39	0105417	1	Tee-Pipe, 0.25NPT, PN
18	6500346	1	Cad Cell-Burner, Hi Press	40	0118750	1	Adapter-Auto, ST, 04MP-06MS
19	6500343	1	Housing Asm-Burner, Hi Press	41	6500351	1	Burner Head-NO. F313
20	6500387	1	Coupling-Blower to Motor	42	6601452	AR	Hose-Air Sol-Cyl Bar On-Off
21	6500400	1	Fuel Valve	43	PD10441	1	DC Primary Controller
22	6200362	2	Elbow-3/16 Tube x 1/8NPT				
23	0120704	4	Nut-Flared Tube, 0.18 x 0.81				

AR - As Required

Relay and Fuse - Fuel Oil Burner

7230287

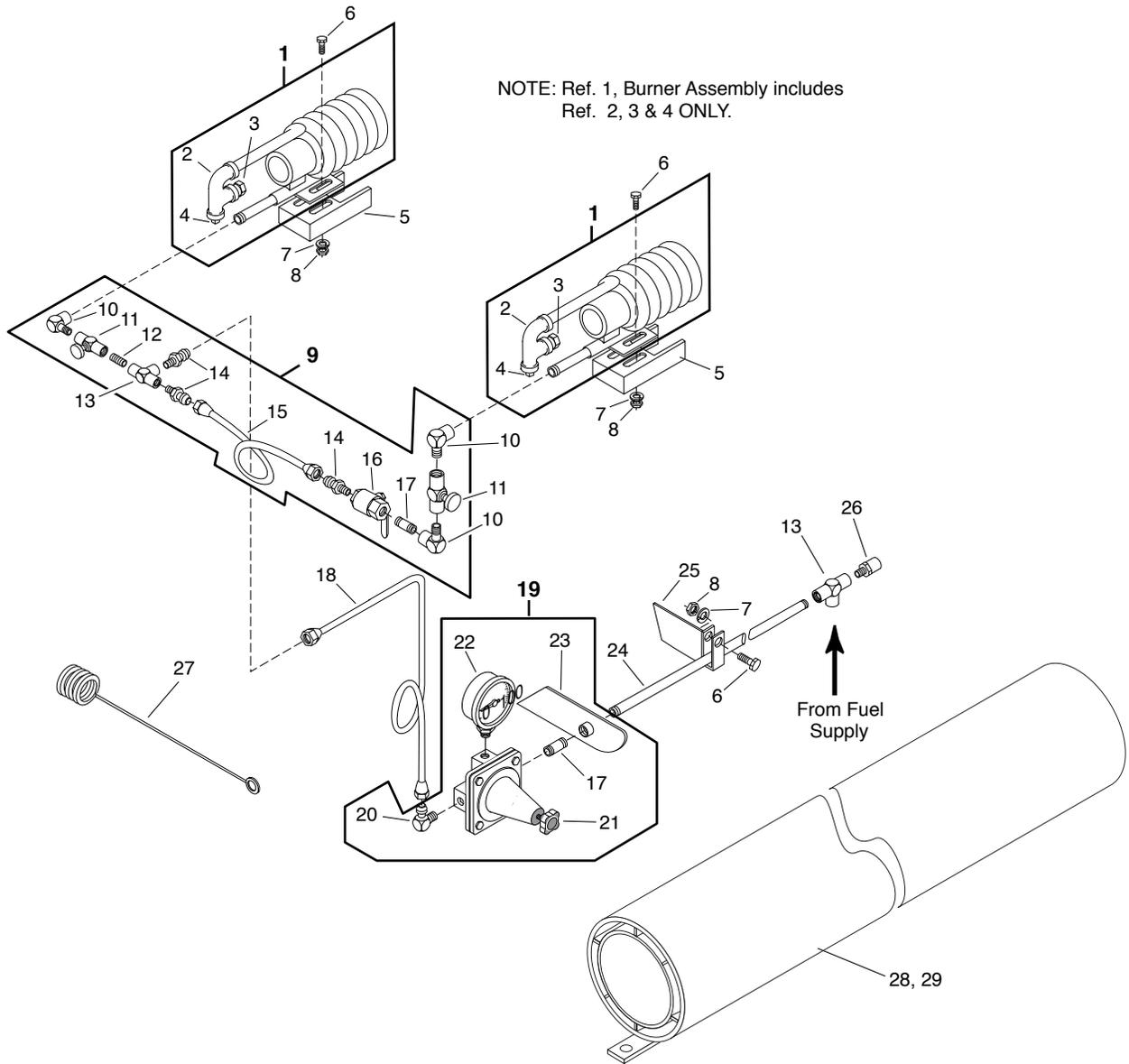


BURNER SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6702460	2	25 Amp Fuse, 3AG, Sloblow	14	6000108	AR	Fibre Loom, 0.31 In.
2	6702014	2	Solenoid Relay	15	6000107	AR	Fibre Loom, 0.25 In.
3	3361179	1	Mounting Bracket				AR = As Required
4	6701750	4	Terminal-Ring, 10 Ga., 0.25 in Stud				
5	6700224	AR	10 Ga. Wire, Red				
6	0120706	6	Screw-0.25NC x 0.50				
7	9413946	6	Lock Nut-0.25NC				
8	6000462	1	0.75 Rubber Clamp				
9	6000109	AR	Fibre Loom, 0.38 In.				
10	6702461	2	Fuseholder				
11	6700238	5	Terminal				
12	6700119	AR	14 Ga. Wire, Plastic, Red				
13	6700118	AR	14 Ga. Wire, Plastic, Orange				

LPG Burners

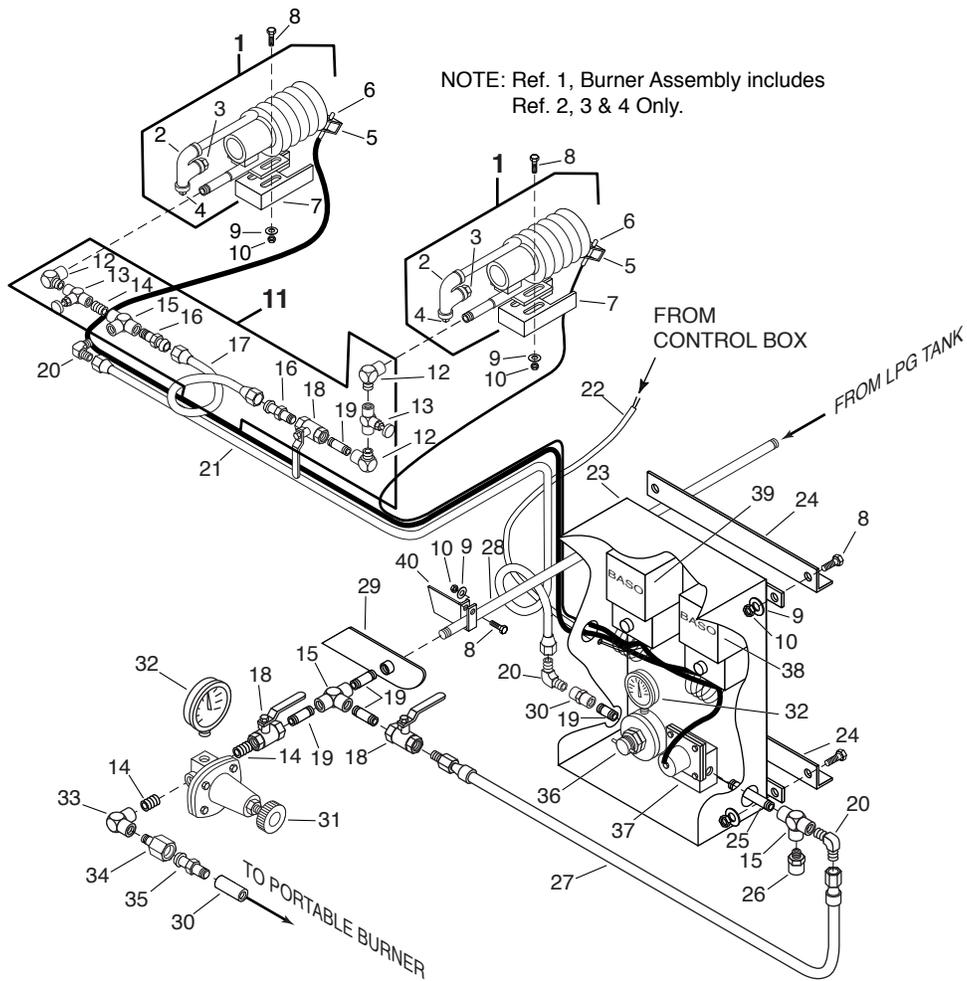
NOTE: Ref. 1, Burner Assembly includes
Ref. 2, 3 & 4 ONLY.



BURNER SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331073	2	Burner Asm	16	6500366	1	Ball Valve, 0.25
2	3331036	1	Vapor Plug Holder	17	6200417	2	Nipple-Sch 80, 0.25 x 1.50
3	3331086	1	Nozzle	18	3331362	1	Tube Asm
4	0219191	1	Pipe Plug, SqHd, 0.38NPT	19	3331885	1	Regulator Asm
5	3331870	1	Mounting Bracket Asm	20	0118755	1	Elbow-Auto, 90, 04MP-06MS
6	0121887	5	Screw, 0.25NC x 0.75	21	7720018	1	Pressure Regulator
7	0120380	5	Lock Washer, 0.25	22	6600196	1	Pressure Gauge, 2", 0-100 PSIG
8	0120375	5	Nut, 0.25NC	23	3331875	1	Bracket Asm
9	7720001	1	Piping Asm	24	3311421	1	Pipe-0.25, Single Axle
10	0454109	3	Elbow-Auto, 04FP-04MP		3311422	1	Pipe-0.25, Tandem Axle
11	6500064	2	Needle Valve, 0.25NPTF, W/Pilot	25	3330185	1	Support Asm
12	6200292	3	Nipple, Sch 80, 0.25 x 0.87CL	26	7720014	1	Relief Valve, 400 PSI
13	0454121	2	Tee-Auto, 04FP-04FP-04FP	27	3330077	1	Lighting Asm
14	0118750	3	Adapter-Auto, ST, 04MP-06MS				
15	3331108	1	Tube Asm				

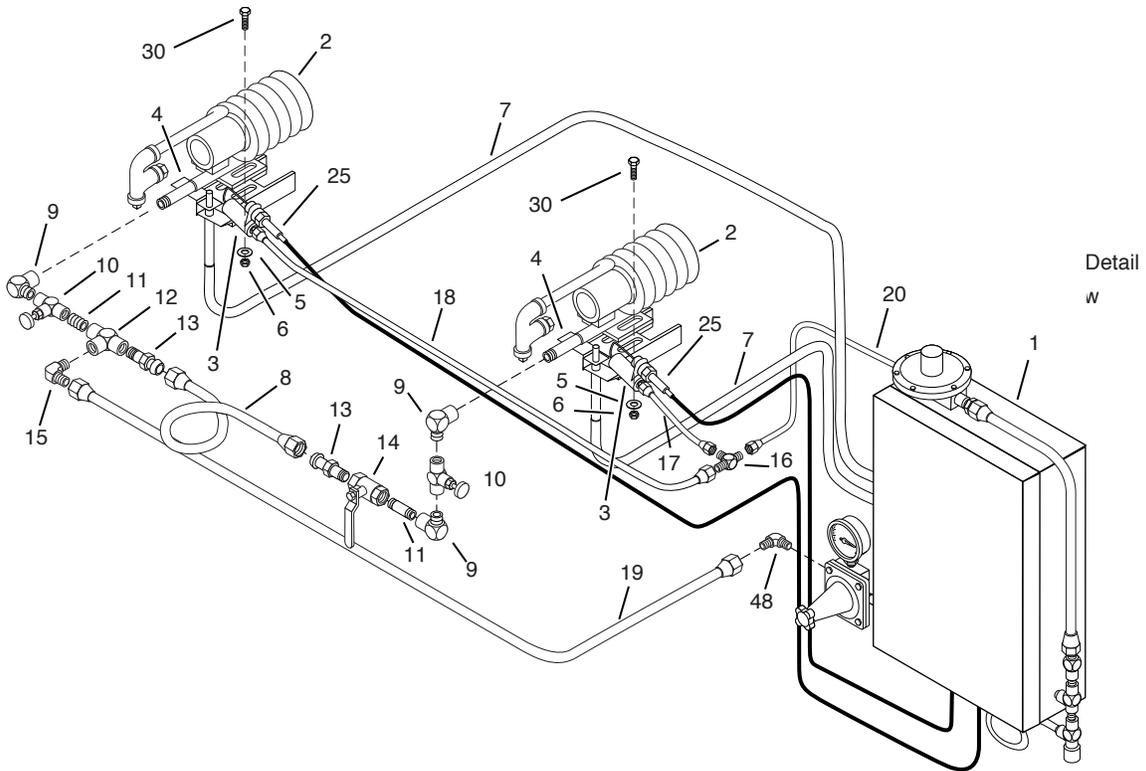
LPG Burners With Outfire



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331073	2	Burner Asm-LPG Etyre	22	3331880	1	Harness-Power Supply Therm Ctl
2	3331036	1	Holder-Vapor Plug	23	6500020	1	Shut Off-12 V, B-3 Burner
3	3331086	1	Nozzle-L.P.G. Burner Etyre	24	3331879	2	Angle-Mt Outfire Box
4	0219191	1	Plug-PIPE, SqHd, 0.38NPT, PN	25	6200419	1	Nipple-PP, Sch 80, 0.25 x 3.50, PD
5	3331898	2	Bracket Asm-Mtg. Thermocouple	26	7720014	1	Valve-Relief, 400 PSI LPG Hydro
6	6500113	2	Thermocouple-Duel Fuel B-3	27	3331886	1	Hose Asm-28.5" LPG Outfire Box
7	3331870	2	Bracket Asm-Mtg. LPG Burner	28	6303435	AR	Pipe-Sch 80, 0.25 Generic
8	0121887	9	Screw-Hex, 0.25NC x 0.75, GR2, PD	29	3331875	1	Bracket Asm-Fuel Line
9	0120380	9	Washer-Lock, 0.25, Spring, PD	30	0144068	1	Coupling-Pipe, 0.25NPT, PD
10	0120375	9	Nut-Hex, 0.25NC, PD	31	7720018	1	Regulator-Pressure
11	7720001	1	Piping Asm-B3 Burner Conn.	32	6600196	2	Gauge-Press, 1 In., 0-100 PSIG
12	0454109	3	Elbow-Auto, 90, 04FP-04MP, PD	33	0454085	1	Elbow-Auto, 90, 04FP-04FP, PD
13	6500064	2	Valve-Needle, 0.25NPTF, W/Pilot	34	6600785	1	Adapter-POL x 1/4MPT
14	6200292	3	Nipple-PP, Sch 80, 0.25 x 0.87 CL, PD	35	6600043	1	Connector-Tank LPG Press Reg.
15	0454121	3	Tee-Auto, 04FP-04FP-0FP, PD	36	6500008	1	Regulator-REGO 499M
16	0118750	2	Adapter-Auto, ST, 04MP-06MS	37	7720011	1	Valve-Gas Elect., 250 PSI - 12Y
17	3331108	1	Tube Asm-Burner Piping Propane	38	7720045	1	Switch-Safety, BASO L61LL-B
18	6500366	3	Valve-Ball, 0.25 JOMAR T-100	39	6500133	1	Switch-Safety, BASO L61LL-1
19	6200417	5	Nipple-PP, Sch 80, 0.25 x 1.50, PD	40	3330185	1	Supt Asm-Right, Fuel Line
20	0118755	3	Elbow-Auto, 90, 04MP-06MS				
21	3331881	1	Tubing-Outfire To Main Burners				AR - As Required

BURNER SYSTEM

Thermocontrol - 12 Volt Etnyre LPG Burners

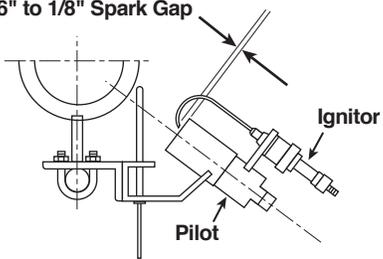


Detail
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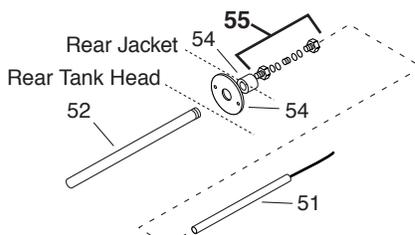
BURNER SYSTEM

Set up both burners as shown below

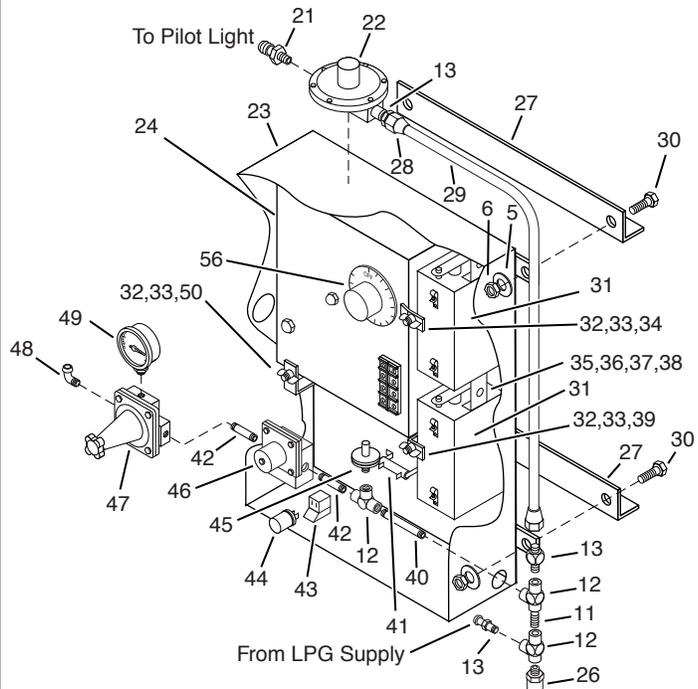
1/16" to 1/8" Spark Gap



Well - Thermometer Installation

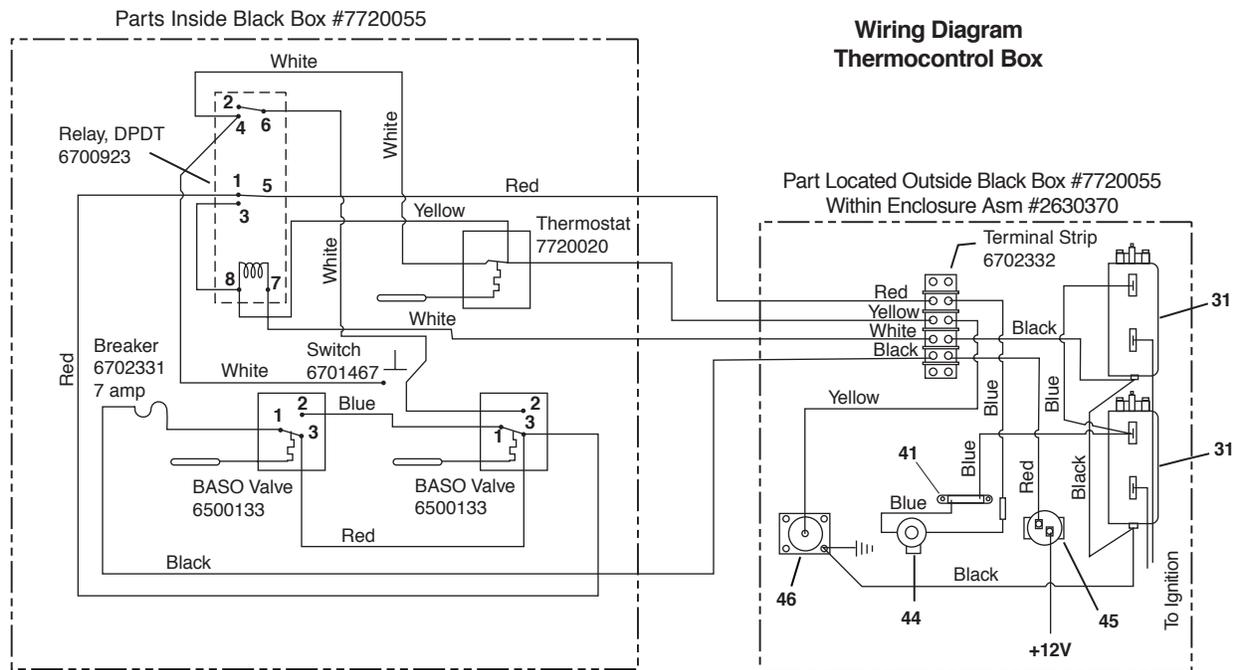


Detail of Thermocontrol Box



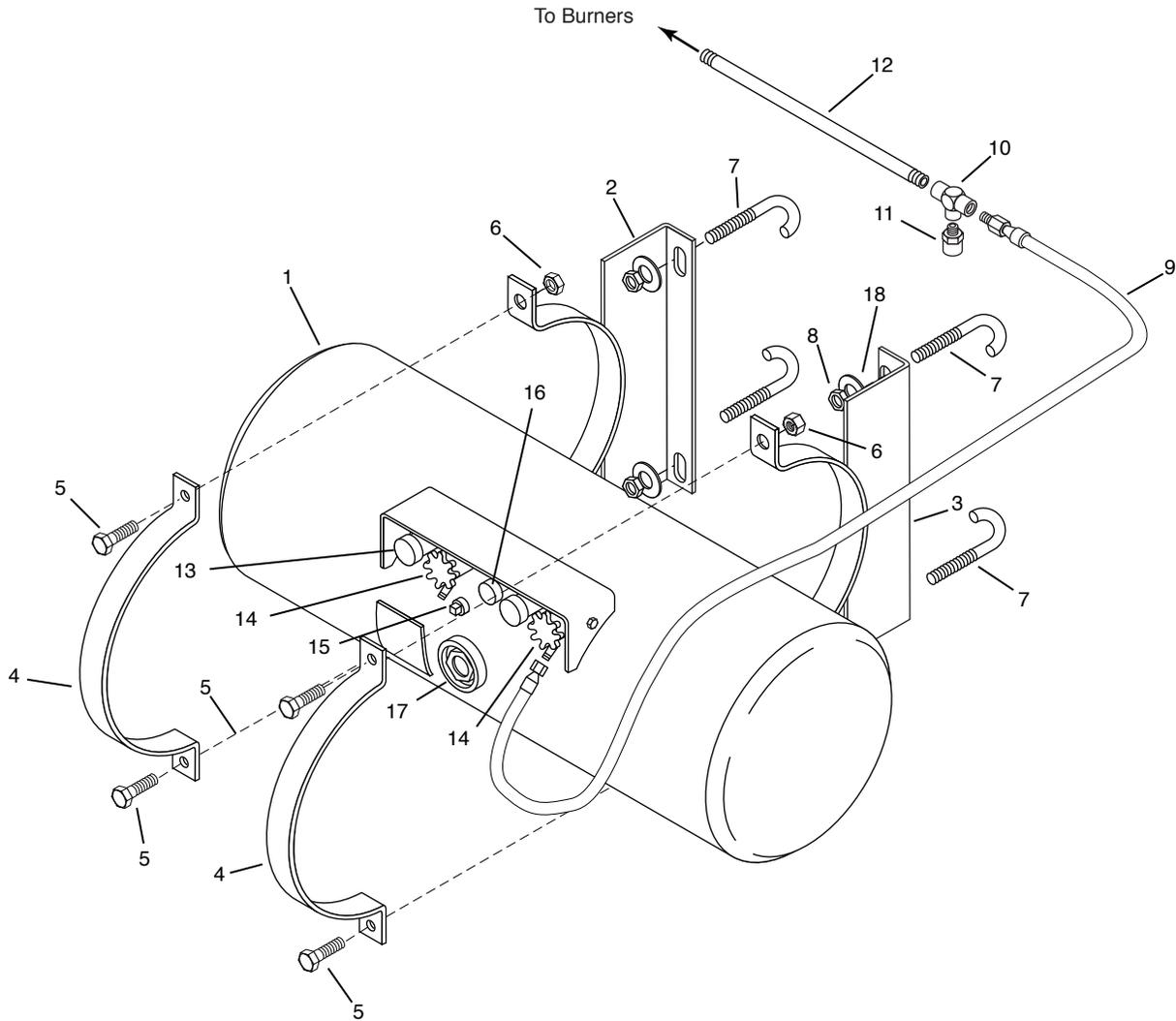
Thermocontrol - 12 Volt Etnyre LPG Burners

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6500192	1	Control-Flame Out & Temp, LPG	30	0121867	4	Screw-Hex, 0.25NC x 0.75,GR2,PO
2	3331073	2	Burner Asm-LPG	31	7720017	2	Ignition Coil
3	3331877	2	Pilot Asm W/Plug & Mtg. Brkt.	32	0432903	3	Screw-0.25NC x 4.00
4	3331878	2	Pipe Clip-0.25NC	33	0126177	3	Wing Nut-0.25NC, Type A, PD
5	0120380	8	Lock Washer-0.25NC	34	2630586	1	Bracket
6	0120375	8	Nut-0.25NC	35	2660101	1	Spacer
7	6500113	2	Thermocouple	36	0436665	1	Screw-Mach, PNSL, 06NC x 0.50
8	3331108	1	Tube Asm	37	0131044	1	Lock Washer-#6
9	0454109	2	Elbow-Auto, 90, 04FP-04MP,	38	0134530	1	Nut-Hex, Mach, #6NC
10	6500064	2	Needle Valve-0.25NPTF, W/Pilot	39	2630585	1	Bracket
11	6200292	3	Nipple-PP, Sch 80, 0.25 x 0.88CL	40	6200473	1	Nipple-PP, Sch 80, 0.25 x 4.00
12	0454121	4	Tee-Auto, 04FP-04FP-04FP	41	7720043	1	Resistor
13	0118750	4	Adp-Auto, ST, 04MP-06MS	42	6200418	2	Nipple-PP, Sch 80, 0.25 x 3.00
14	6500366	1	Ball Valve-0.25	43	7720021	1	Bracket-Flasher
15	6600731	2	Elbow-Auto, 90, 04MP-04MS	44	6700318	1	Flasher-12V
16	6602039	1	Tee-Auto, 04MC-04MC-04MC	45	7720008	1	Pressure Switch
17	3331883	1	Tubing-Tee to Outer Burner	46	7720011	1	Electric Gas Valve-250 PSI, 12V
18	3331884	1	Tubing-Tee to Inner Burner	47	7720018	1	Pressure Regulator
19	3331881	1	Tubing-Outfire to Main Burners	48	0118755	1	Elbow-Auto, 90, 04MP-06MS
20	3331882	1	Tubing-Reg. to Outer Burner Tee	49	6600196	1	Pressure Gauge, 2",0-100 PSI
21	6600465	1	Connector-Male, 04MC-06MP	50	2630584	1	Bracket
22	7720023	1	Regulator-Pilot	51	7720020	1	Thermostat & Sensing Element-450
23	2630370	1	Outfire Box Enclosure	52	3300045	1	Well Asm-16"
24	7720055	1	Safety Relay-Thermostat	53	2750166	1	Finishing Ring
	7720059	1	Safety Relay (For Single Burner)	54	0120755	1	Pipe Coupling-0.38NPT
25	7720022	2	Spark Plug	55	6500105	1	Packing Gland
26	7720014	1	Relief Valve-400 PSI	56	7720061	1	Knob Asm
27	3331879	2	Angle-Mt. Outfire Box				
28	0121758	2	Flare Nut-0.38 OD TBG x 1 Lg.				
29	6309071	1	Tube-0.38 x 0.25 Copper, Type L				



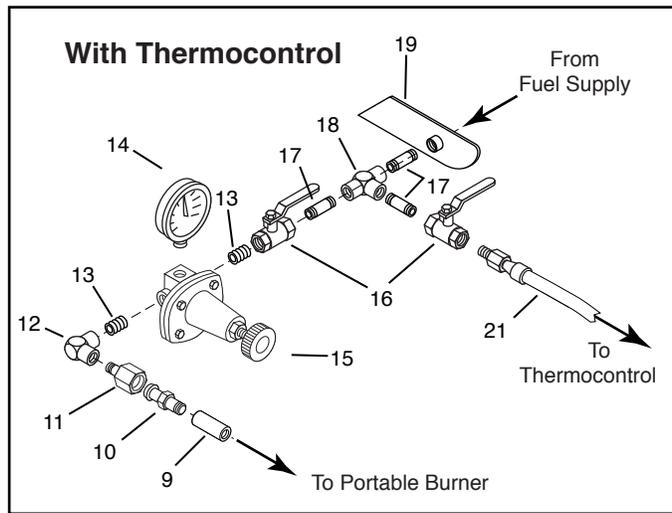
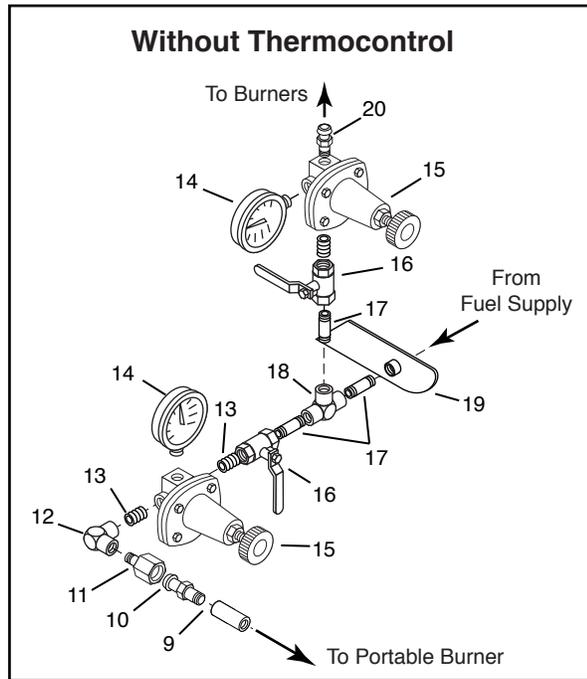
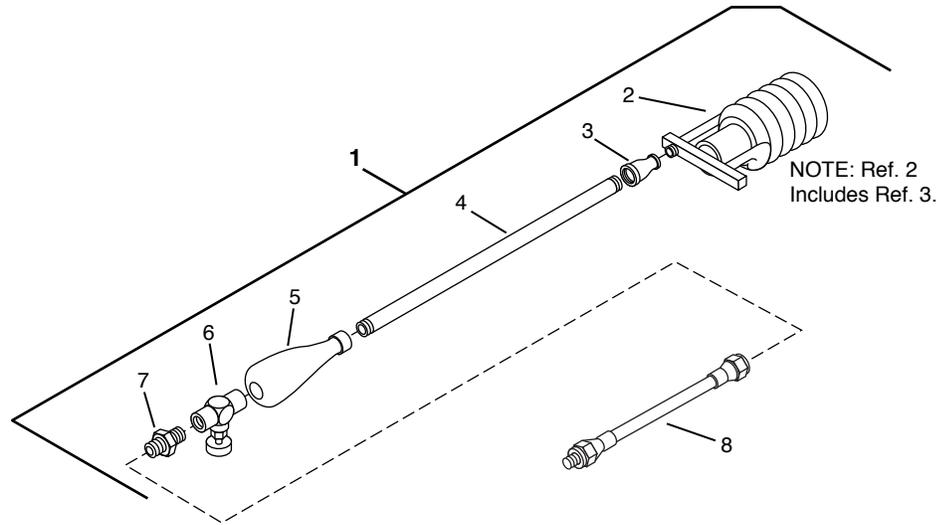
BURNER SYSTEM

LPG Tank



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6500333	1	Tank-LPG, 42 Gal., 18 x 42, Chassis	14	7720066	2	Valve-Liquid, Tank LPG 18 x 42 + 53
	6500045	1	Tank-LPG, 52 Gal., 18 x 53, Chassis	15	7720065	1	Valve-Relief, Tank LPG 18 x 42 + 53
	6500360	1	Tank-52 GL LPG 22 x 36 Texas RR	16	7720062	1	Valve-20 Pct, Tank LPG 18 x 42 + 53
2	3331034	1	Bracket Asm-Propane Tank Mt LT	17	7720063	1	Gauge-Sight, Tank LPG 18 x 42 + 53
	3331299	1	Brkt Asm-Propane Tnk Mt LT 22"	18	9422850	4	Washer-Flat, 0.62A (0.65 x 1.31)HN
3	3331035	1	Bracket Asm-Propane Tank Mt RT	19	PD10738	1	Screw In Tank Gage
	3331300	1	Bracket Asm-Propane Tnk Mt RT 22"	20	PD10743	1	Snap In Tank Gage
4	3330293	1	Ring-18 In. Propane Bottle				
	3331296	1	Propane Tank Ring 22"				
5	0120237	4	Screw-Hex, 0.50NC x 3.00, GR2, PD				
6	9411727	4	Nut-Hex, Lock, 0.50NC EA, PD				
7	3360726	4	Bolt-Hook, Bit, Frame Truck				
8	9413948	4	Nut-Hex, Lock, 0.62NC, EA, GRA, PD				
9	3331076	1	Hose Asm-Propane Tank Inst RH				
10	0454121	1	Tee-Auto, O4FP-O4FP-O4FP, PD				
11	7720014	1	Valve-Relief, 400 PSI LPG Hydro				
12	6303435	1	Pipe-Sch 80, 0.25, Generic				
13	7720064	1	Valve-Fill, Tank LPG 18 x 42 + 53				

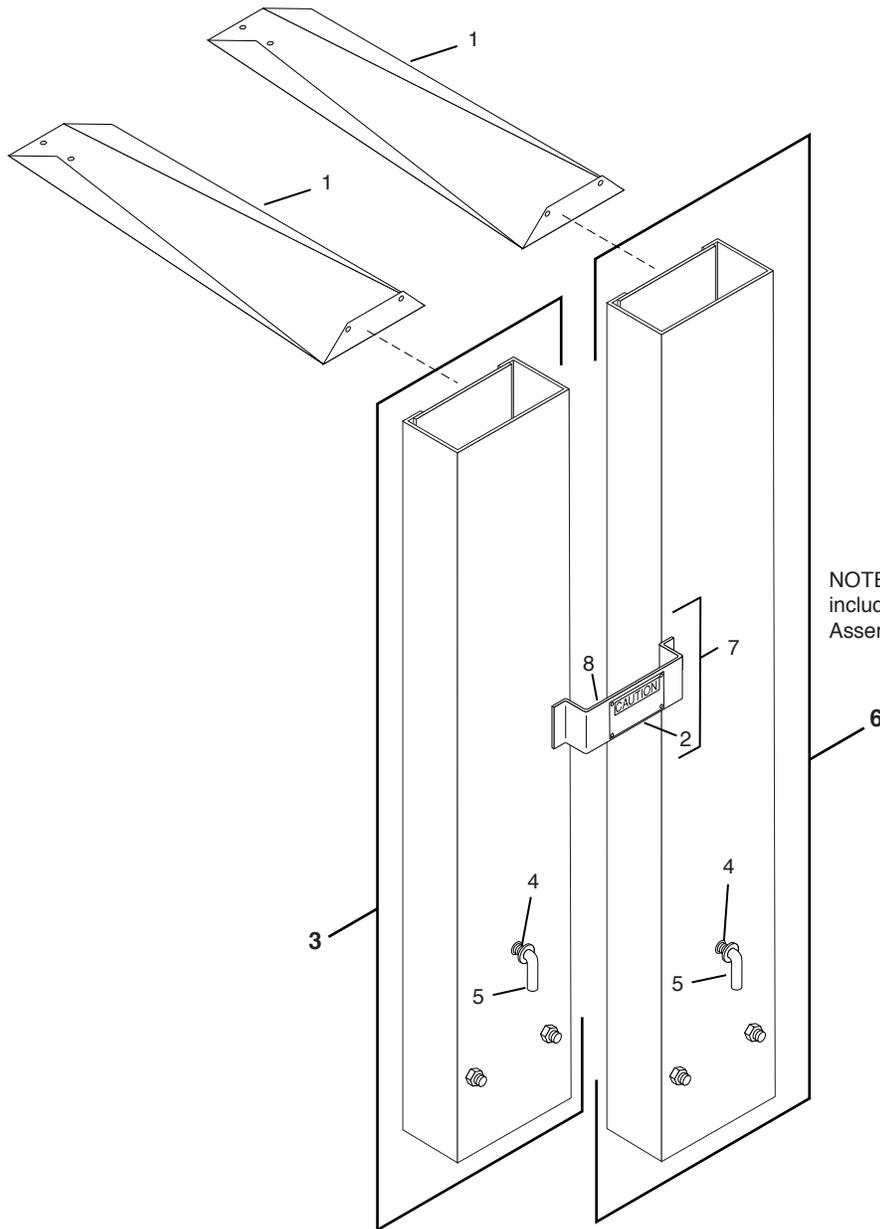
LPG Portable Burner - Tank System



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331899	1	Burner Asm W/O Hose	13	6200292	2	Nipple-Sch 80, 0.25 x 0.87CL
2	6500071	1	Burner (Includes Ref# 2)	14	6600196	AR	Pressure Gauge, 2", 0-100PSIG
3	0105420	1	Coupling, 0.25NPT x 0.12NPT	15	7720018	AR	Pressure Regulator
4	6200251	1	Pipe-Sch 40, 0.25 x 30.00	16	6500366	2	Ball Valve, 0.25
5	7700025	1	Handle	17	6200417	AR	Nipple-Sch 80, 0.25 x 1.50
6	6500064	1	Needle Valve, 0.25NPTF, W/Pilot	18	0454121	1	Tee-Auto, 04FP-04FP-04FP
7	4470350	1	Hex Nipple, 0.25 x 1.12	19	3331875	1	Bracket Asm
8	6601692	1	Burner Hose Asm, 0.25 x 25.00	20	0118750	1	Adaptor-Auto, ST, 04MP-06MS
9	0144068	1	Pipe Coupling, 0.25NPT	21	3331886	1	Hose Asm
10	6600043	1	Connector				
11	6600785	1	Adapter-POL x 0.25MPT				
12	0454085	1	Elbow-Auto, 90, 04FP-04FP				

BURNER SYSTEM

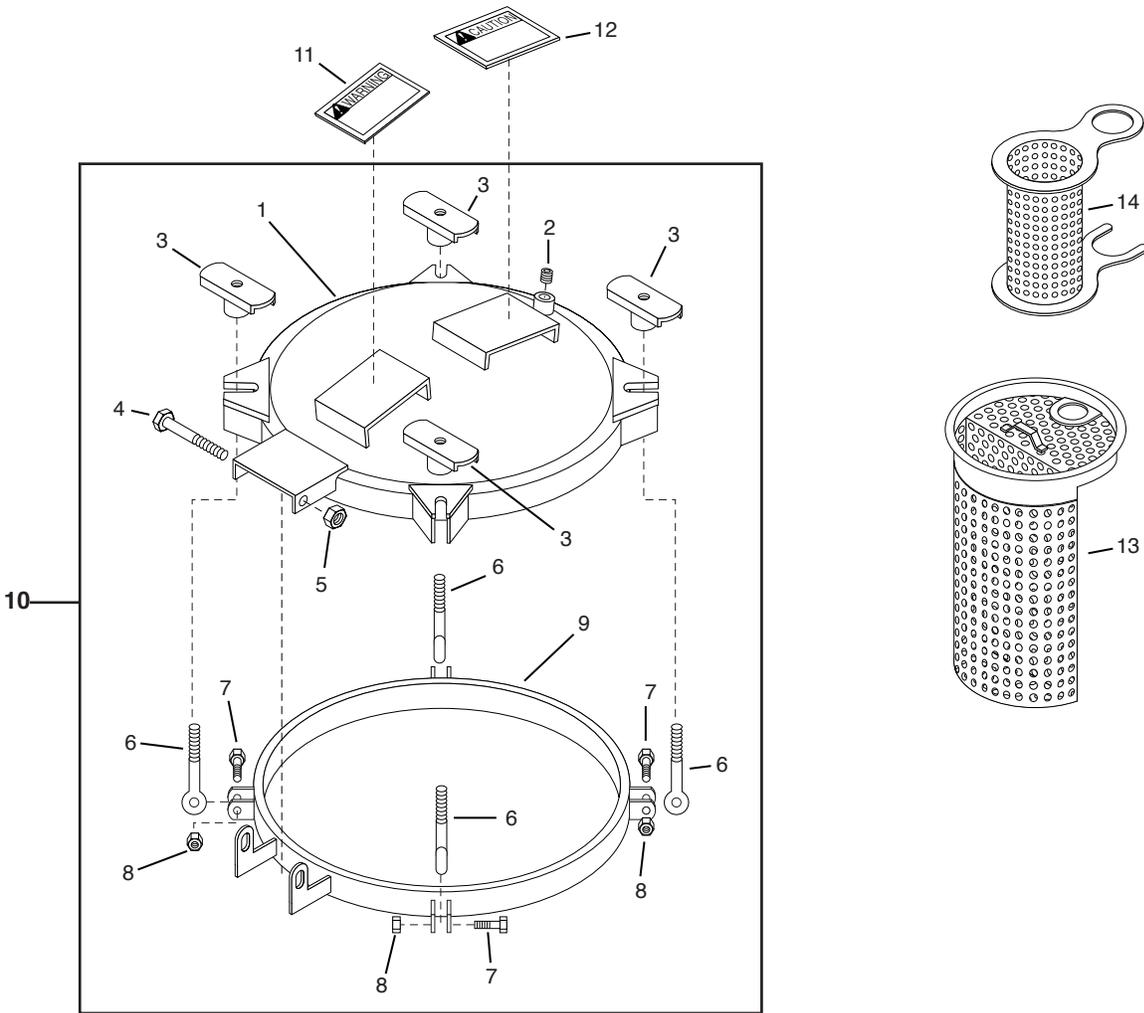
Exhaust Stack Assemblies



TANK

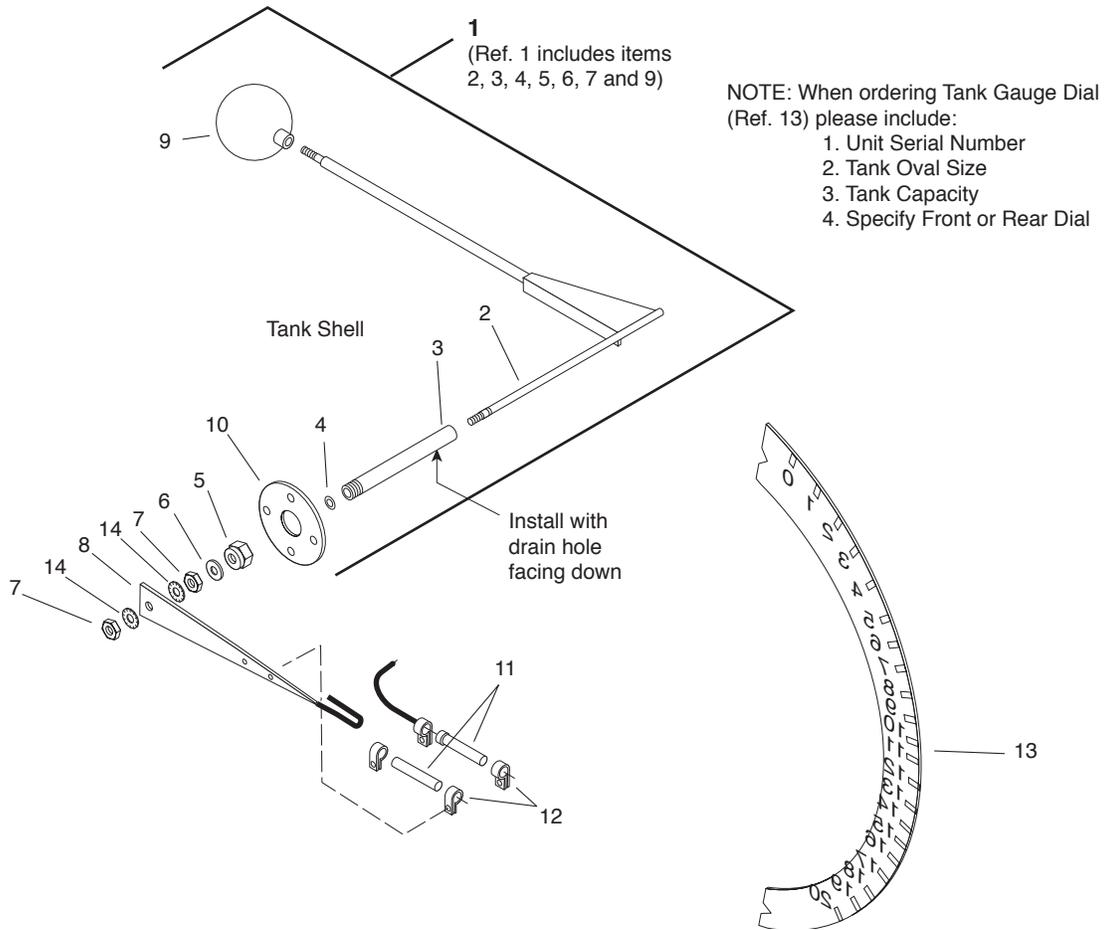
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2730158	1	Top Bracket	6	3301336	1	Stack Asm - 51.12" (42 x 74, 47 x 78 & 50 x 83 Head)
2	3561030	1	Plate - CAUTION, HOT SURFACE		3301337	1	Stack Asm - 55.88" (53 x 88 Head)
3	3301335	1	Stack Asm - 46.38" (42 x 74, 47 x 78 & 50 x 83 Head)		3301338	1	Stack Asm - 60.62" (59 x 89 Head)
	3301336	1	Stack Asm - 51.12" (53 x 88 Head)		3301339	1	Stack Asm - 65.38" (65 x 90 Head)
	3301337	1	Stack Asm - 55.88" (59 x 89 Head)		3301340	1	Stack Asm - 70.12" (70 x 92 Head)
	3301338	1	Stack Asm - 60.62" (65 x 90 Head)	7	3390592	1	Tag Bracket Asm
	3301339	1	Stack Asm - 65.38" (70 x 92 Head)	8	3390562	1	Bracket
4	6000496	1	Release Spring				
5	3301332	1	Damper Arm Asm				

Manhole & Strainers



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2600379	1	Cover Asm-20, Manhole	13	2690170	1	20" Strainer
	2700248	1	Gasket-Cover, MH, Non Rel, 20	14	3390695	1	6" Strainer
	6001133	1	Garlock-Packmasters, 3/4" Sq				
2	0444867	1	Plug-Auto, Hex Sock, 0.38NPTF, PD (Included with Ref. 1)				
3	2600376	4	Handle Asm				
4	0188738	1	Screw-Hex, 0.50 NCx 5.50, Gr2				
5	9411727	1	Nut-Hex, Lock, 0.50NC, EA, PD				
6	2600371	4	Bolt-Eye, 20" Manhole				
7	0180128	4	Screw-Hex, 0.38NC x 1.75, Gr5				
8	0274993	4	Nut-Hex, Lock, 0.38NC, PD				
9	2600380	1	Collar Asm-20" Manhole				
10	2600382	1	Manhole Asm-20"				
11	3390679	1	Plate-Warning, Manhole				
12	3390684	1	Plate-Caution, Hot Surface				

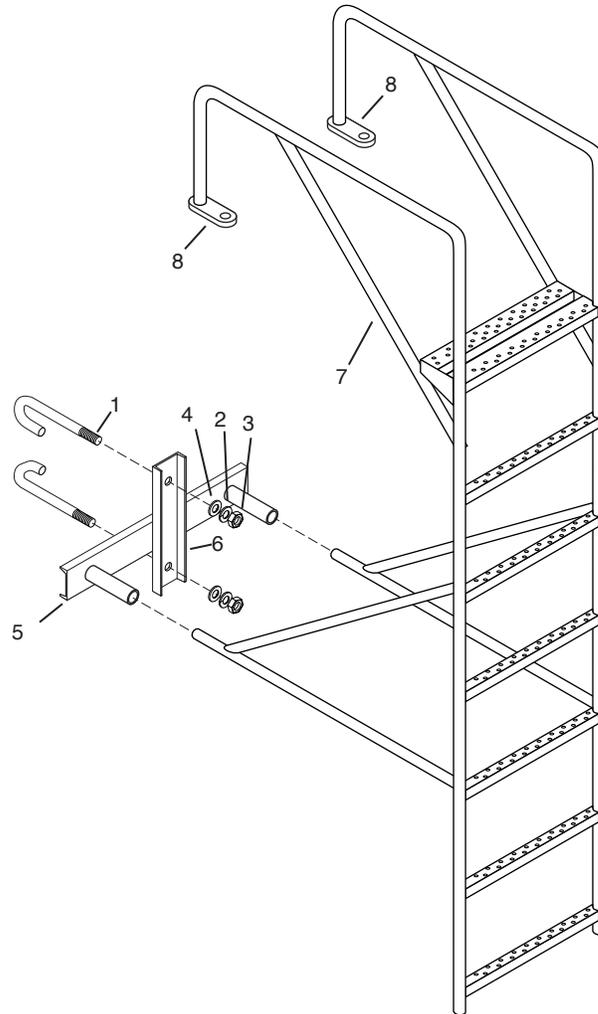
Tank Gauge Assembly



TANK

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2660135	1	Tank Gauge-36x70 Oval	5	2660111	1	Cap-Stem Asm
	2660158	1	Tank Gauge-42x74 Oval	6	0120390	1	Washer-Flat, 0.50A, W, PD
	2660154	1	Tank Gauge-47x78 Oval	7	0120378	2	Nut-Hex, 0.50NC, PD
	2660171	1	Tank Gauge-50x83 Oval	8	2690191	1	Dial Pointer-Stainless Steel
	2660139	1	Tank Gauge-53x88 Oval	9	6600335	1	Float Ball
	2660200	1	Tank Gauge-59x89 Oval	10	3341199	1	Cover-Jacket, Drive
2	2660134	1	Stem Asm-36x70 Oval	11	6701832	2	Switch-SPDT Magnetic, 3 Amp
	2660157	1	Stem Asm-42x74 Oval	12	6000057	4	Clamp-0.50 Rubber Tube
	2660153	1	Stem Asm-47x78 Oval	13	*	1	Dial-Call With Serial Number
	2660170	1	Stem Asm-50x83 Oval	14	0135629	2	Washer-Lock, 1/2, Ext Tooth
	2660138	1	Stem Asm-53x88 Oval				
	2660139	1	Stem Asm-59x89 Oval				
3	2660132	1	Sleeve Asm-36x70 Oval				
	2660160	1	Sleeve Asm-42x74 Oval				
	2660151	1	Sleeve Asm-47x78 Oval				
	2660173	1	Sleeve Asm-50x83 Oval				
	2660137	1	Sleeve Asm-53x88 Oval				
	2660197	1	Sleeve Asm-59x89 Oval				
4	6001199	1	O-Ring, 0.364 ID x 0.70 Width				

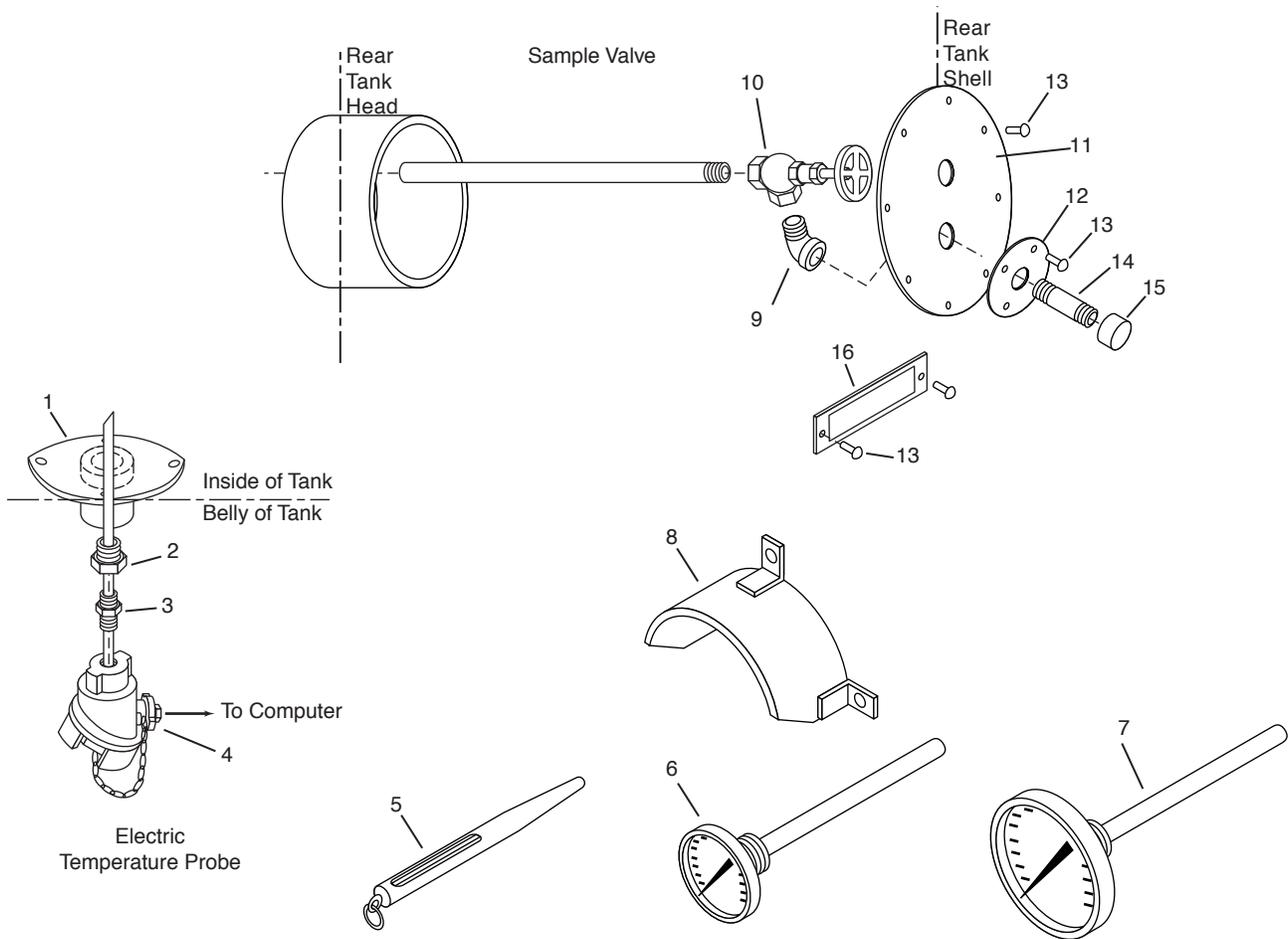
Ladder



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3360726	2	Bolt-Hook, 3/4				
2	0121574	2	Washer-Lock, 5/8, Spring, PD				
3	0124589	2	Nut-Hex, Lock, 5/8NC, Ea, PD				
4	0130999	2	Washer-Flat, 5/8, PD				
5	2680447	1	Channel-Horizontal				
6	2680448	1	Channel-Vertical				
7	2600539	1	Ladder Asm-53 x 88 Oval				
8	3380960	2	Plate-Ladder Mount				

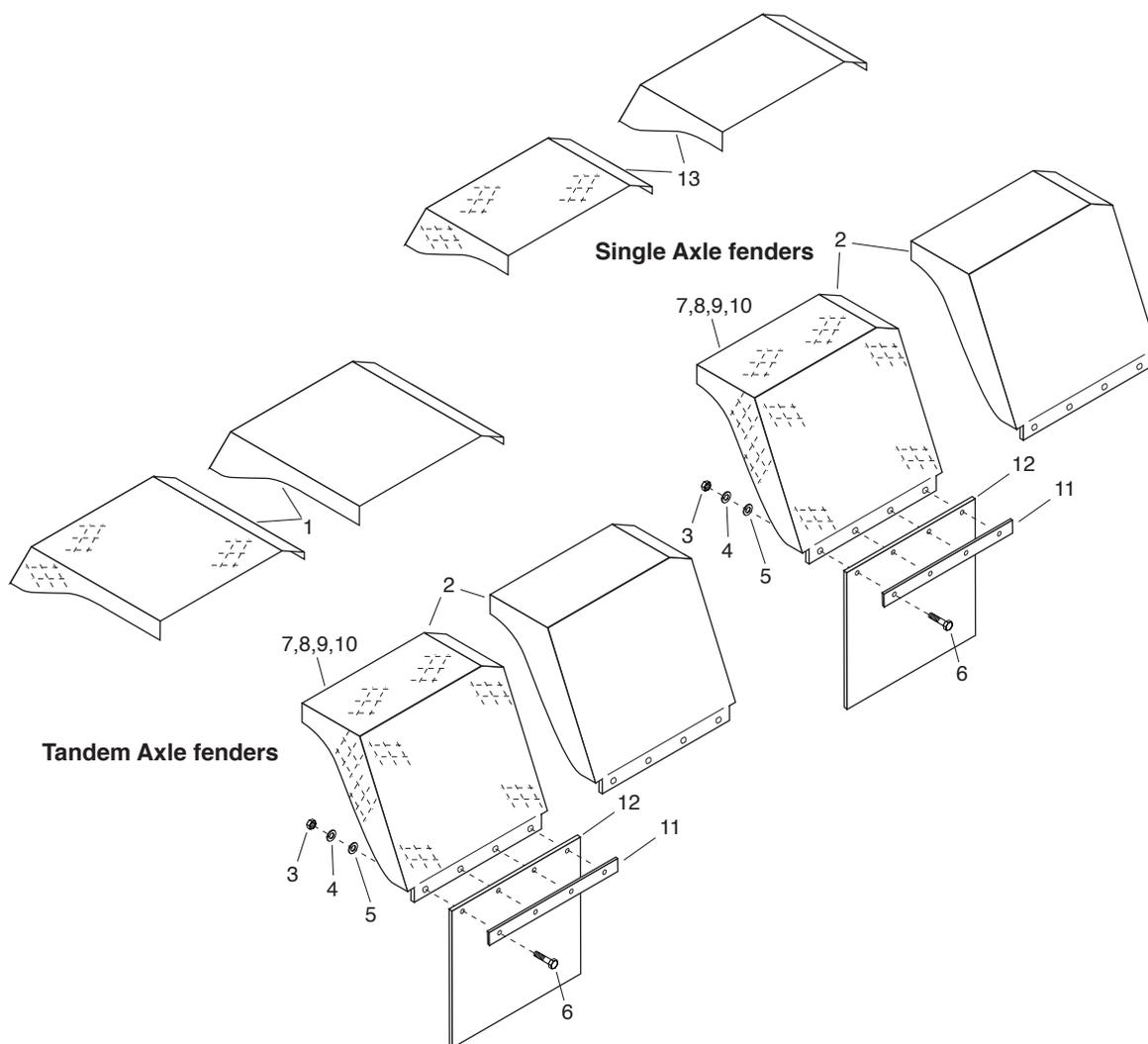
TANK

Sample Valve - Thermometer - Temperature Probe



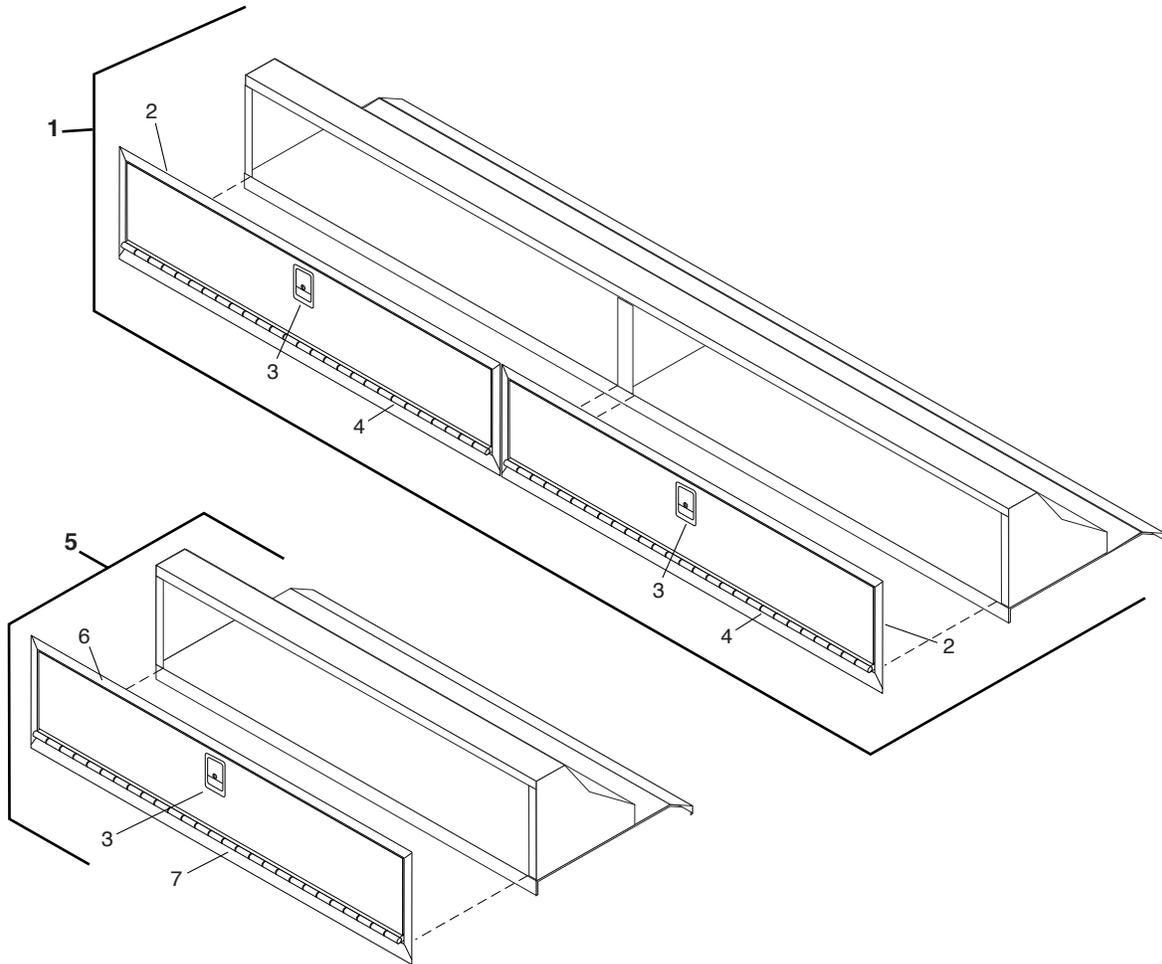
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3300773	1	Ring-Finishing	15	2700161	1	Ring-Finish, Sample Valve Outlet
2	0144034	1	Bushing-Pipe, 0.75 x 0.50NPT, PN	16	6000690	12	Rivet-0.19Dr, 047Min-140Max
3	6601714	1	Adapter-Hyd, St, 08MP-08MP	17	0126168	1	Nipple-PP, Sch 40, 0.75 x 3.00, PN
4	3370234	1	Thermocouple	18	2780038	1	Cap Asm (Includes: 6000345 Peerless 86041-881 Twin Loop Chain, 1Ft & one 2780027 Mounting Clip)
5	6500034	1	Thermometer-Pencil, 50-600 Deg. F	19	9426128	2	Screw-Tap, PNSL, 0.25 x 0.50
	6500035	1	Thermometer-Pencil, 10-315 Deg. C	20	3390531	1	Plate-Warning, Sampling Valve
6	6500039	1	Thermometer-2" Dial, 9" Stem, 50-550 Deg., Dual Scale				
7	6500038	1	Thermometer-5" Dial, 9" Stem, 50°-550° Dual Scale				
8	J8985AF	1	Cover Asm-4" Dial				
9	3301006	1	Well Asm-6" O.D.				
10	6200324	1	Pipe-Sch 40, 0.75, TOE, Ft				
11	0140798	1	Elbow-PP, 45, ST, 0.75NPT				
12	6600349	1	Valve-0.75, Angle, Crane #2				
13	3301003	1	Ring-Finish, Sample Valve				
14	2700162	1	Gasket-Sample Valve Outlet				

Rear Fender Assemblies



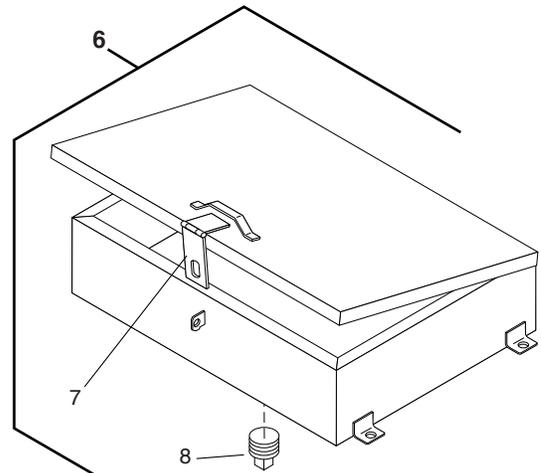
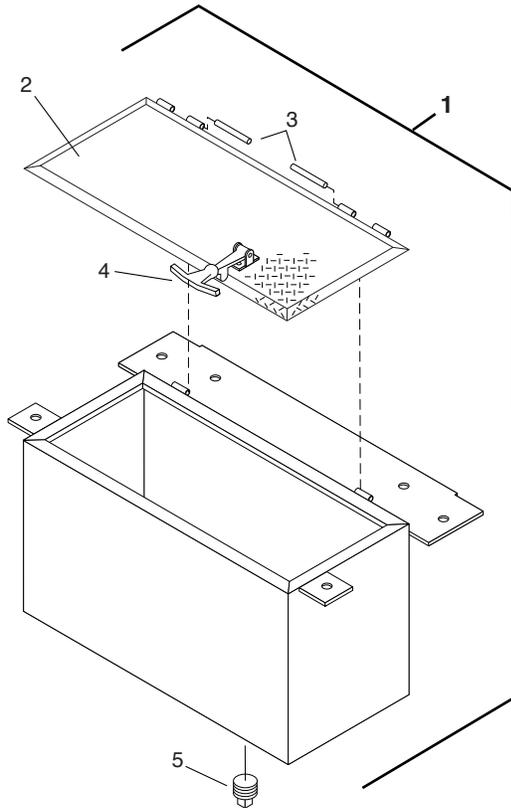
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3301659	1	Fender-Front, Diamond, LH, Tandem	8	0120376	6	Nut-Hex, 5/16NC, PD
	3301844	1	Fender-Front, Smooth, LH, Tandem	9	0122017	6	Screw-Hex, 5/16NC x 1, Gr 2, PD
	3301662	1	Fender-Front, Diamond, RH, Tandem	10	0446363	12	Washer-Flat, 5/16, Spring, PD
	3301845	1	Fender-Front, Smooth, RH, Tandem	11	3380838	2	Bar-Mudflap, Backup
2	3301741	1	Fender-Rear, Diamond, LH, All	12	3380847	2	Guard-Splash, 24 x 20
	2680565	1	Fender-Rear, Smooth, LH, All	13	3301663	1	Fender-Front, Diamond, LH Single
	3301742	1	Fender-Rear, Diamond, RH, All		2680564	1	Fender-Front, Smooth, LH, Single
	2680568	1	Fender-Rear, Smooth, RH, All		3301664	1	Fender-Front, Diamond, RH Single
3	0120375	8	Nut-hex, 1/4NC, PD		2680567	1	Fender-Front, Smooth, RH, Single
4	0120380	8	Washer-Lock, 1/4, Spring, PD				AR = As Required
5	0120386	8	Washer-Flat, 1/4, Spring, PD				
6	0121887	8	Screw-Hex, 1/4NC x 3/4, Gr 2, PD				
7	0120214	6	Washer-Lock, 5/16, Spring, PD				

Toolbox Assemblies - Smooth Plate



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3380937	1	Toolbox Asm - 90", LH	6	3380910	1	Door -60" Toolbox
	3380938	1	Toolbox Asm - 90", RH		2680599	1	Door -48" Toolbox
2	3380928	2	Door- 90" Toolbox	7	3380909	1	Hinge-60" Toolbox
3	2781748	AR	Lock-Tool Box		2680590	1	Hinge-48" Toolbox
4	3380929	2	Hinge-90" Toolbox	8	3380971	1	Toolbox Access Hole Cover
5	3380921	1	60" Toolbox Asm, LH	9	6000989	4	Screw
	3380922	1	60" Toolbox Asm, RH	10	0120386	4	Washer, Flat
	2680604	1	48" Toolbox Asm, LH				
	2680605	1	48" Toolbox Asm, RH				AR = As Required

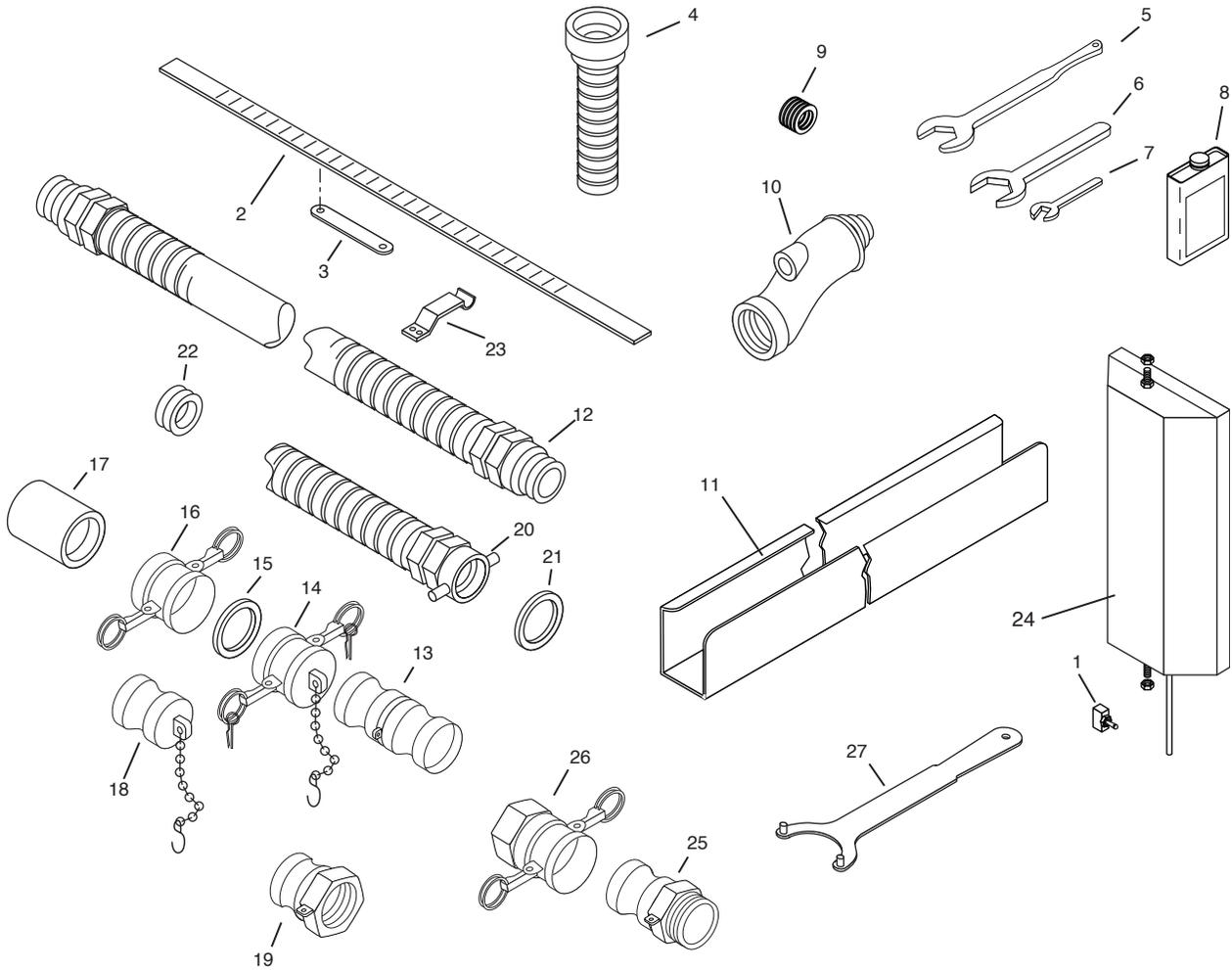
Tool Soak & Section Box Assemblies



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3311812	1	Tool Soak Box Asm				
2	3311810	1	Lid				
3	3352683	2	Pin-Hinge				
4	6001161	1	Latch-T Handle				
5	0219301	1	Plug-Pipe, SqHd, 0.75NPT				
6	3342424	1	Box Asm-Section Carrier				
7	6000308	1	Safety Hasp				
8	0219303	1	Plug-Pipe, SqHd, 1.00NPT				

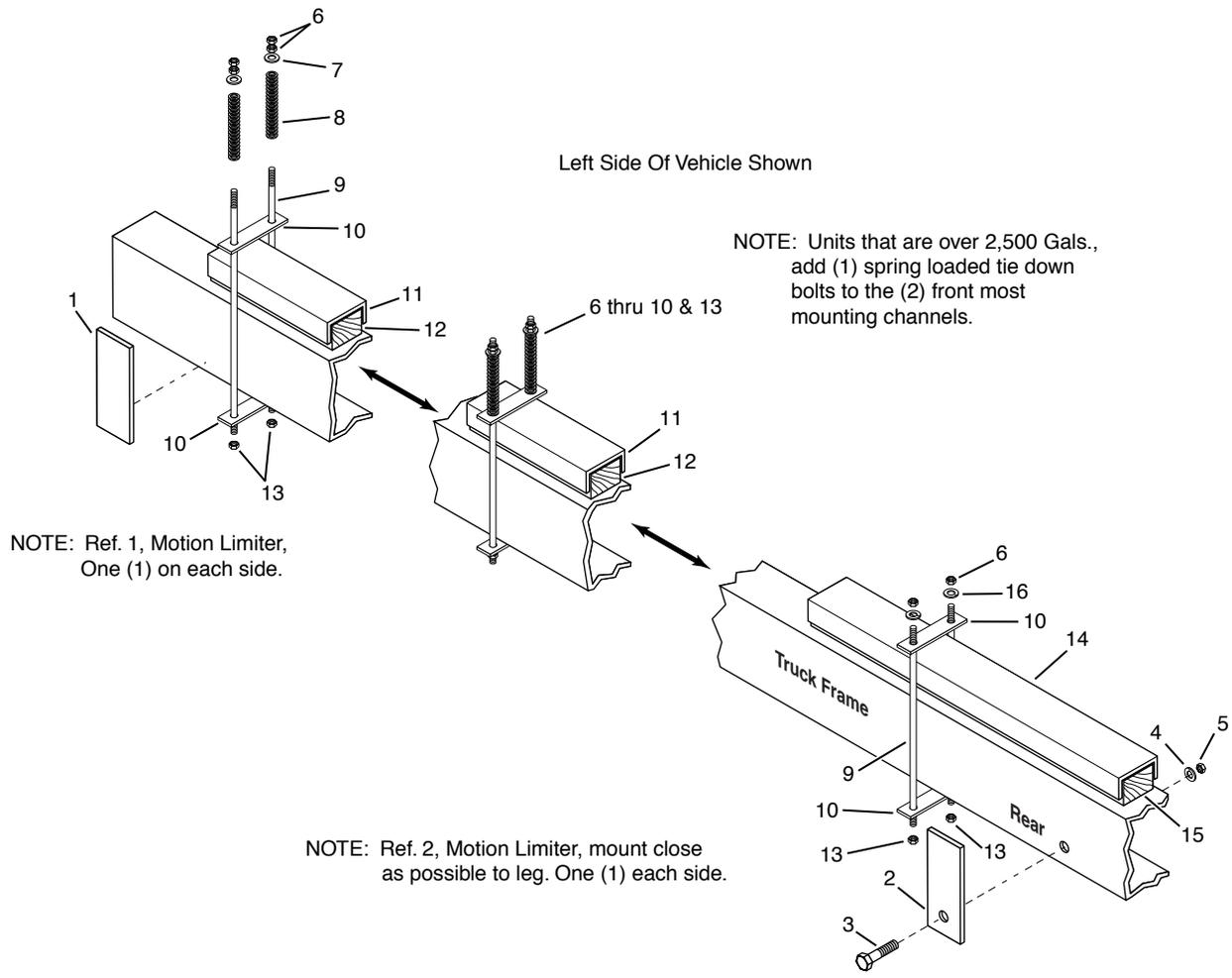
ACCESSORIES

Miscellaneous Attachments And Tools



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	7230372	1	Switch-4 Way (located in cab)	13	6600152	1	Hose Connector-3"
2	*****		Measuring Stick (1 Flue) Call with Unit Serial Number		6600282	1	Double Connector, 3", Alum
	*****		Measuring Stick (2 Flue) Call with Unit Serial Number	14	6600281	1	Dust Cap, 3", Alum W/Chain
3	3390645	1	Label-Measuring Stick (1 Flue)		6600250	1	Dust Cap, 3", Brass
	3390656	1	Label-Measuring Stick (2 Flue)	15	6600279	1	Gasket-3" ID, Silicone
4	3300036	1	Overflow Outlet Extention Asm	16	6600278	1	3" Coupler, Alum, Part B
5	3380459	1	Open End Wrench, 2"	17	6200059	1	Pipe Coupling-3.00NPT
6	3380079	1	Union Wrench, 2"	18	6600280	1	3" Dust Plug, Alum.
7	6000376	1	Armstrong Wrench	19	6600277	1	3" Adapter, Alum, Part A
8	7220056	1	Anti-Foam Concentrate, 1 Pint	20	6600265	1	Hose Asm-3", T&A x 15' M/F Cplg
9	6600310	1	Packing Ring, 1.50 ID x 2.00 OD		7400004	1	Hose-3", Tiger, W/Male Nipples BE
10	3340040	1	3" Connector	21	6600267	2	Gasket-3.50 x 2.88 x 0.13, ASB
11	3380790	1	Hose Trough (Specify Unit Number)	22	7220028	1	Cord-Norfab, 0.6"
12	6601926	1	Hose Asm-3.00 x 15 Ft.	23	3310040	2	Bracket-Measuring Stick
	6602576	1	Hose Asm-3.00 x 12 Ft.	24	6702464	1	Mirror-4 Way, Heated
	7400004	1	Hose-3", Tiger, w/Male Nipp BE,Rub	25	6001011	1	Adapter-3", Evertite
	6600443	1	Hose Asm-3 In X 20 Ft, M/M	26	6001012	1	Coupler-3", Evertite
				27	3380848	1	Spanner Wrench Asm - 3.25"

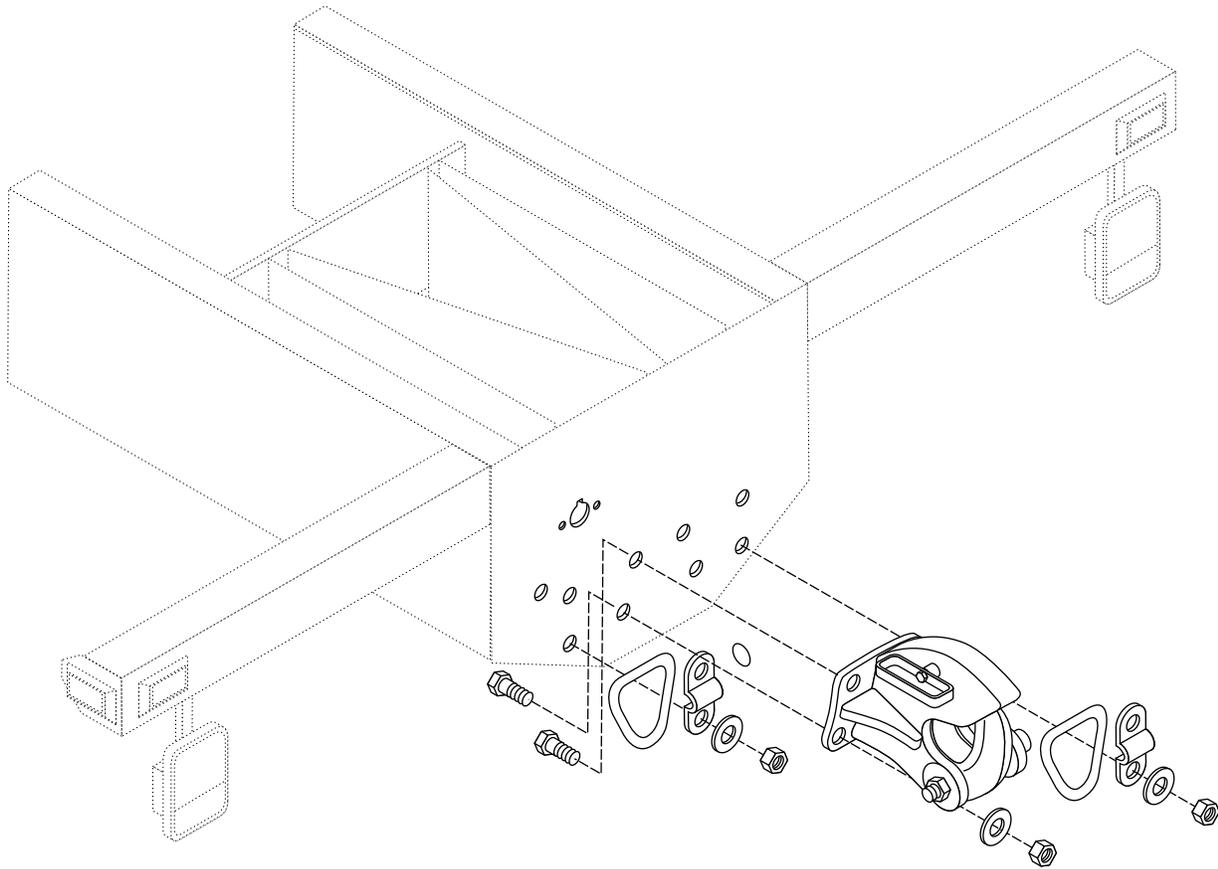
Tank Mounting



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3311576	2	Channel-Tie Down Tank Mtg., 4 x 12	10	3310932	12	Plate-Tie Down, 3 1/2 + 3 3/4 Frame
2	3311617	2	Limiters-Fore/Aft	11	3310979	4	Retainer Asm
3	6001115	2	Screw-Hex, 0.75NC x 2.25, GR8, PD	12	3311649	4	Wood
4	0131046	2	Washer-Lock, 0.75, Spring, PD	13	9411727	12	Nut-Hex, Lock, 0.50NC, EA, PD
5	9414000	2	Nut-Hex, Lock, 0.75NC, GR8, PD	14	3301669	2	Retainer Asm
6	0120378	20	Nut-Hex, 0.50NC, PD	15	3311667	2	Wood
7	0120390	8	Washer-Flat, 0.50A W, PD	16	0120384	4	Washer-Lock, 0.50, Spring, PD
8	3310354	8	Spring-Comp.				
9	3300339	AR	Stud-Tie Down, Frm, 12 In.				AR = As Required
	3300338	AR	Stud-Tie Down, Frm, 14 In.				
	3300337	AR	Stud-Tie Down, Frm, 16 In.				
	3300336	AR	Stud-Tie Down, Frm, 18 In.				
	3300335	AR	Stud-Tie Down, Frm, 20 In.				
	3300623	AR	Stud-Tie Down, Frm, 21 In.				
	3301354	AR	Stud-Tie Down, Frm, 22 In.				
	3300671	AR	Stud-Tie Down, Frm, 21 Lg.				
	3300932	AR	Stud-Tie Down, Frm, 26 Lg.				

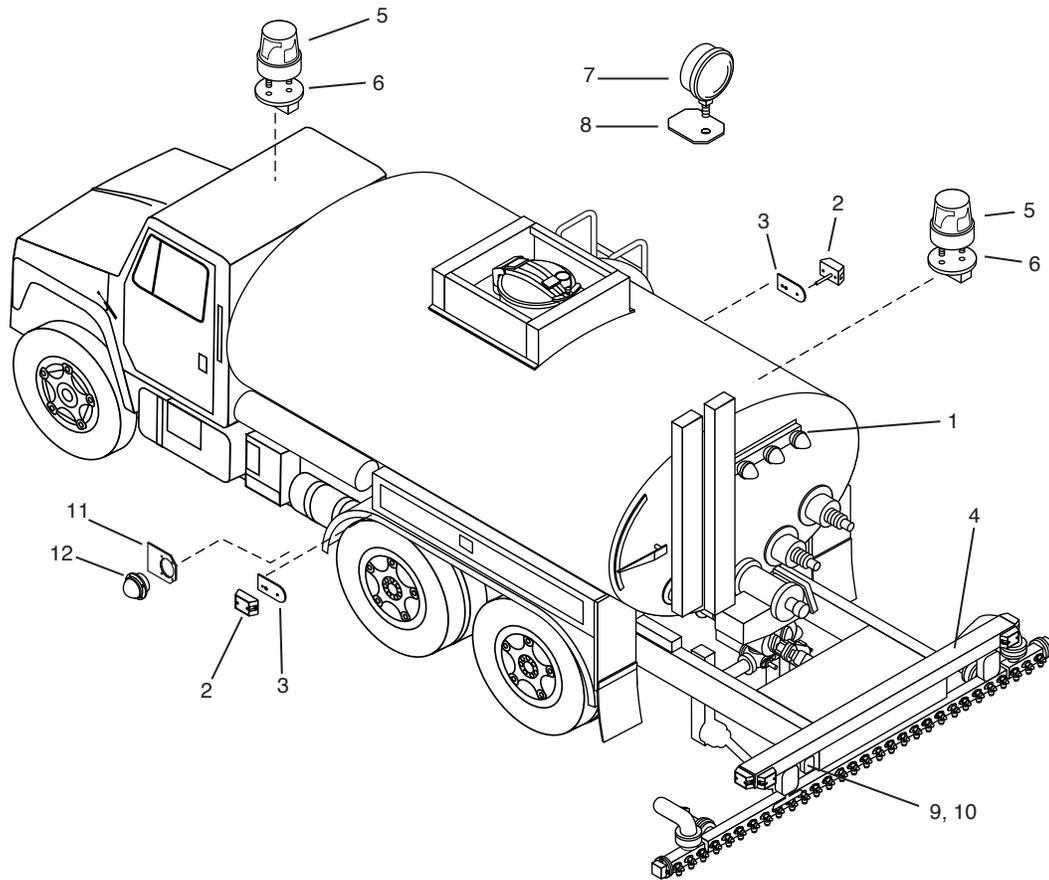
ACCESSORIES

Pintle Hook



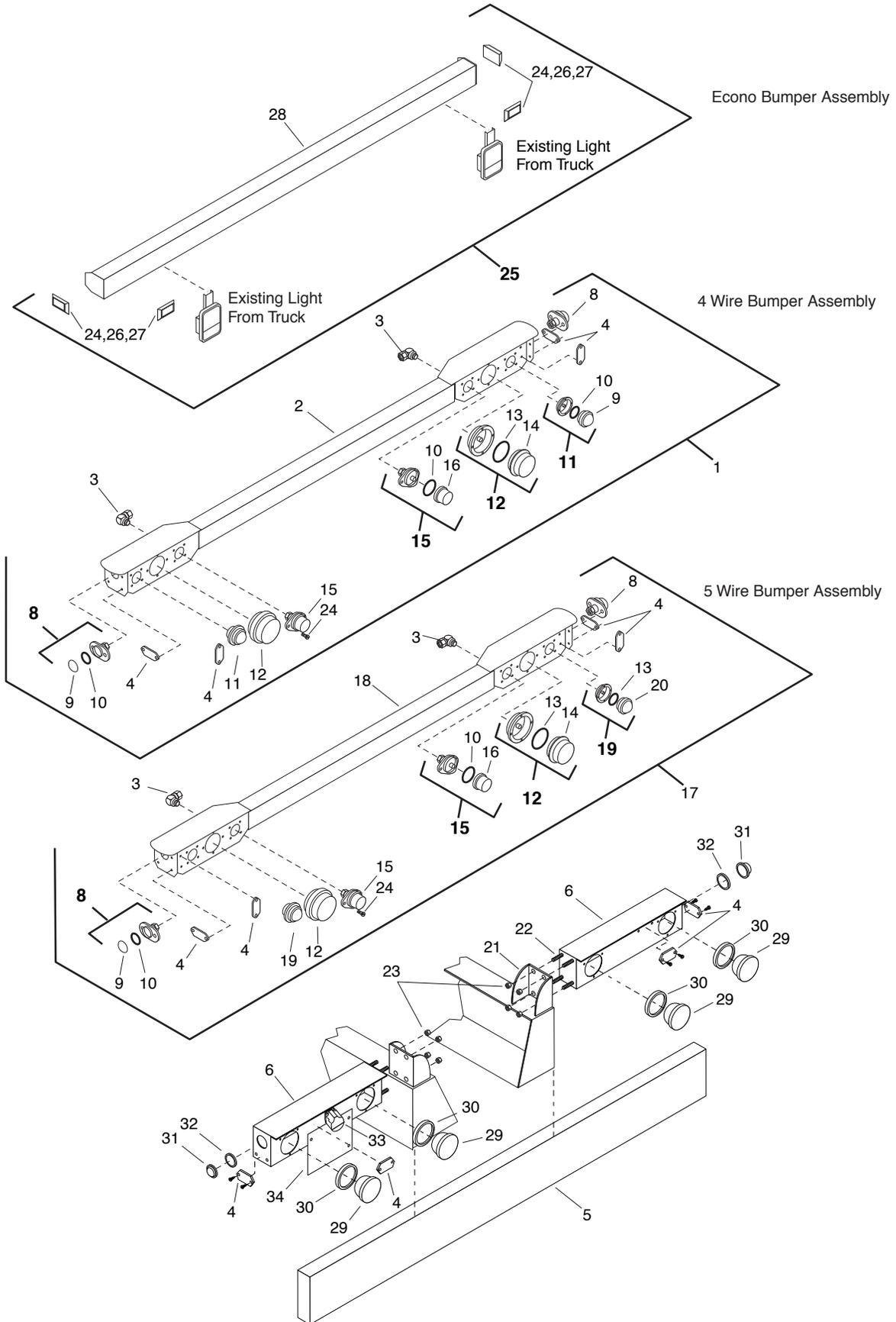
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1	6001167	1	Pintle Hook				
2	9414000	8	Lock Nut, 0.75NC, GR8				
3	0131000	8	Flat Washer, 0.75				
4	0223529	4	Screw, 0.75NC x 2.50, GR8				
5	3300104	2	Lifting Bracket				
6	3300106	2	Lifting Ring				
7	6001115	4	Screw, 0.75NC x 2.25, GR8				

Identification And Clearance Lights



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6700084	1	Identification Lamp	5 AR		Strobe Light (Specify Serial Number)
	6700455	1	O Ring	6 AR		Mounting Bracket(Specify Serial No.)
	6700284	1	Red Lens	7 AR		Flood Lamp (Specify Serial Number)
	6702225	1	Triple Bar Light	8 AR		Mounting Bracket (Specify Serial No.)
2	6700038	1	Clear Light, 12V	9	6701774	1	Electric Back-Up Horn, 12V
	6700229	1	O Ring	10	3370259	1	Mounting Bracket
	6700082	1	Lens				AR = As Required
3	3370047	1	Bracket				
4	3370757	1	Bumper Asm - 4 Wire Conduit				
	3370758	1	Bumper Asm - 5 Wire Conduit				
	3370059	1	Bumper Asm - Env. Trailer				
	3311340	1	Bumper Asm - Economy				

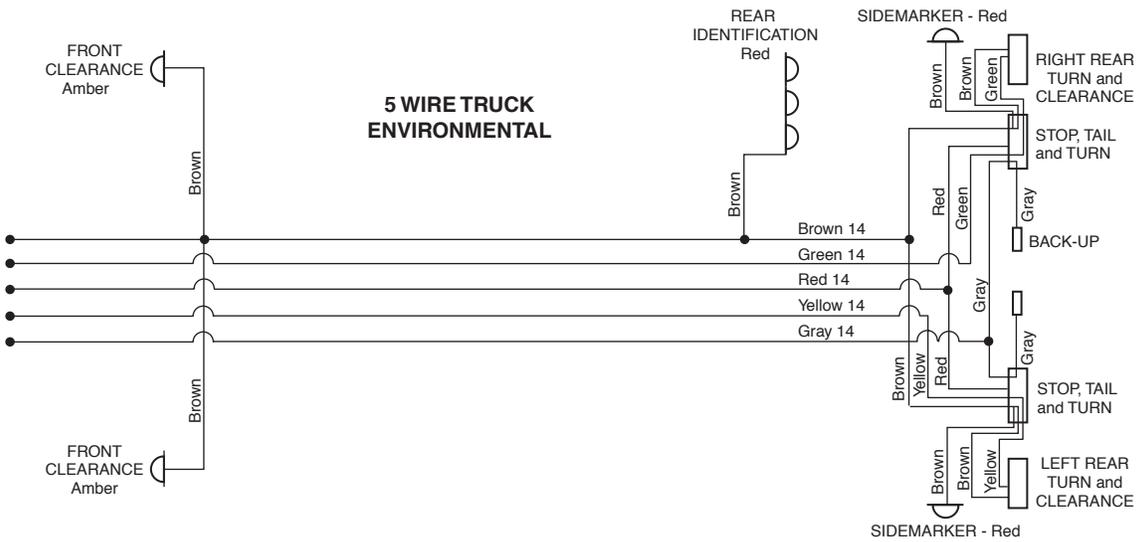
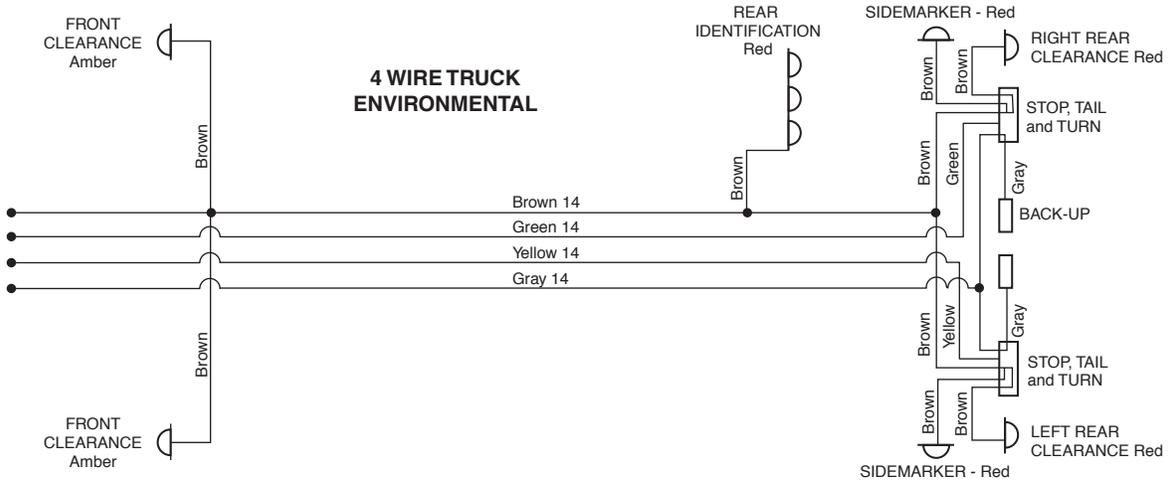
Bumper Assemblies



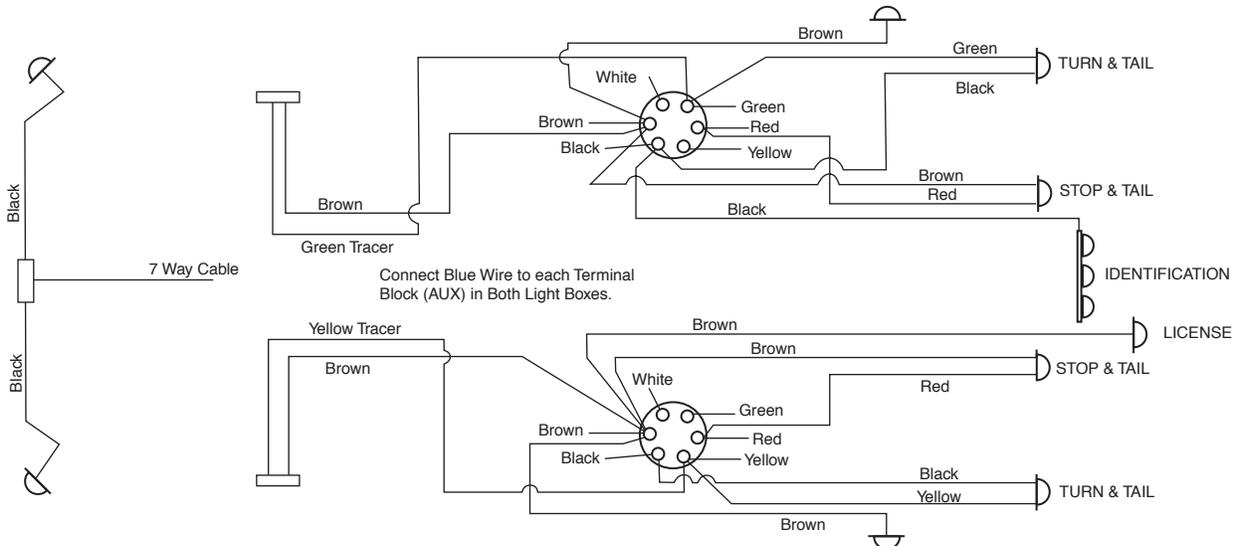
Bumper Assemblies

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3370757	1	Bumper Asm - 4 Wire Conduit				
2	3312136	1	Frame Asm				
3	6701076	2	Elbow-Auto, 90, 04MP-06T Poly				
4	6000686	4	Reflector-Red				
5	2780432	1	Bumper Asm				
6	2770093	1	Light Box - RH				
7	2770096	1	Light Box - LH				
8	6700037	2	Clearance Light, 12V				
9	6700083	2	Lens-Red				
10	6700230	AR	O Ring				
11	6700039	2	Clearance Light, 12V				
12	3310888	2	Light Asm - Stop, Turn, Tail & License				
13	6700229	AR	O Ring				
14	6700080	2	Lens				
15	6701073	2	Light Asm-Backup				
16	6701074	2	Lens				
17	3370758	1	Bumper Asm - 5 Wire Conduit				
18	3312137	1	Frame Asm				
19	3310889	2	Light Asm - Turn & Clearance				
20	6700081	2	Lens				
21	2770074	2	Mounting Bracket				
22	0180124	8	Screw-0.38NC x 1.25, GR5				
23	0274993	8	Lock Nut-0.38NC				
24	0447835	AR	Tap Screw, PNSL, 10NF x 0.50, F, PD				
25	3311340	1	Bumper Asm-Complete, Econo				
26	6700854	4	Clearance Light				
27	6000721	4	Grommet				
28	3311339	1	Bumper Asm				
29	*40242R	4	Model Super 40-Red, Stop, Turn & Tail				
30	*40700	4	Model 40 Mounting Grommet				
31	*10208R	2	Super 10 Lamp Light				
32	*10708	2	Grommet - 2.50 Lamp				
33	*15011	1	Model 15 License Lamp Asm				
34	2770071	1	License Plate Support				

Wiring Diagram - Lighting

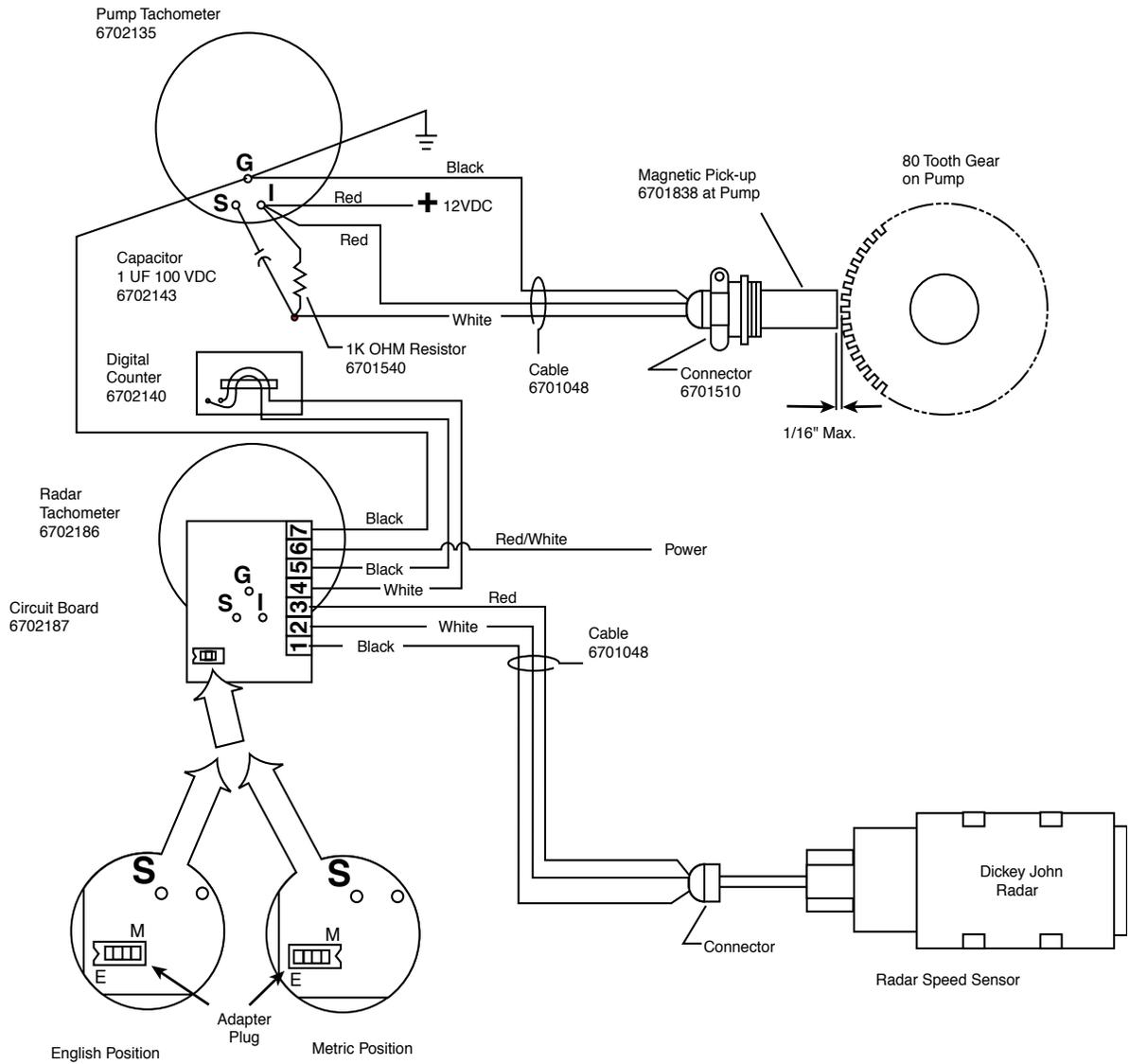


TRUCK LITE, 4 LAMP - 9301227



Wiring Diagram - Radar And Pump Tachometer

Electric Analog Gauges with Magnetic Pick-up



To change from English to metric, flip over the adapter plug on the circuit board on back of the tach. Position plug as shown above.

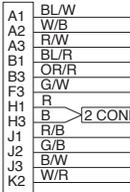
Wiring Diagram - 9303584

S2X - 1 Foot Cont - 16 Feet - Control Box

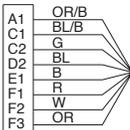
COMPUTER
6703077

SET PPG
TO 164

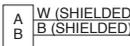
PACKARD-30 PIN
6702208
6702207 PINS



PACKARD-18 PIN
6702206
6702207 PINS



AMPHENOL-6 PIN
6702209
(MS26482, SIZE 10)

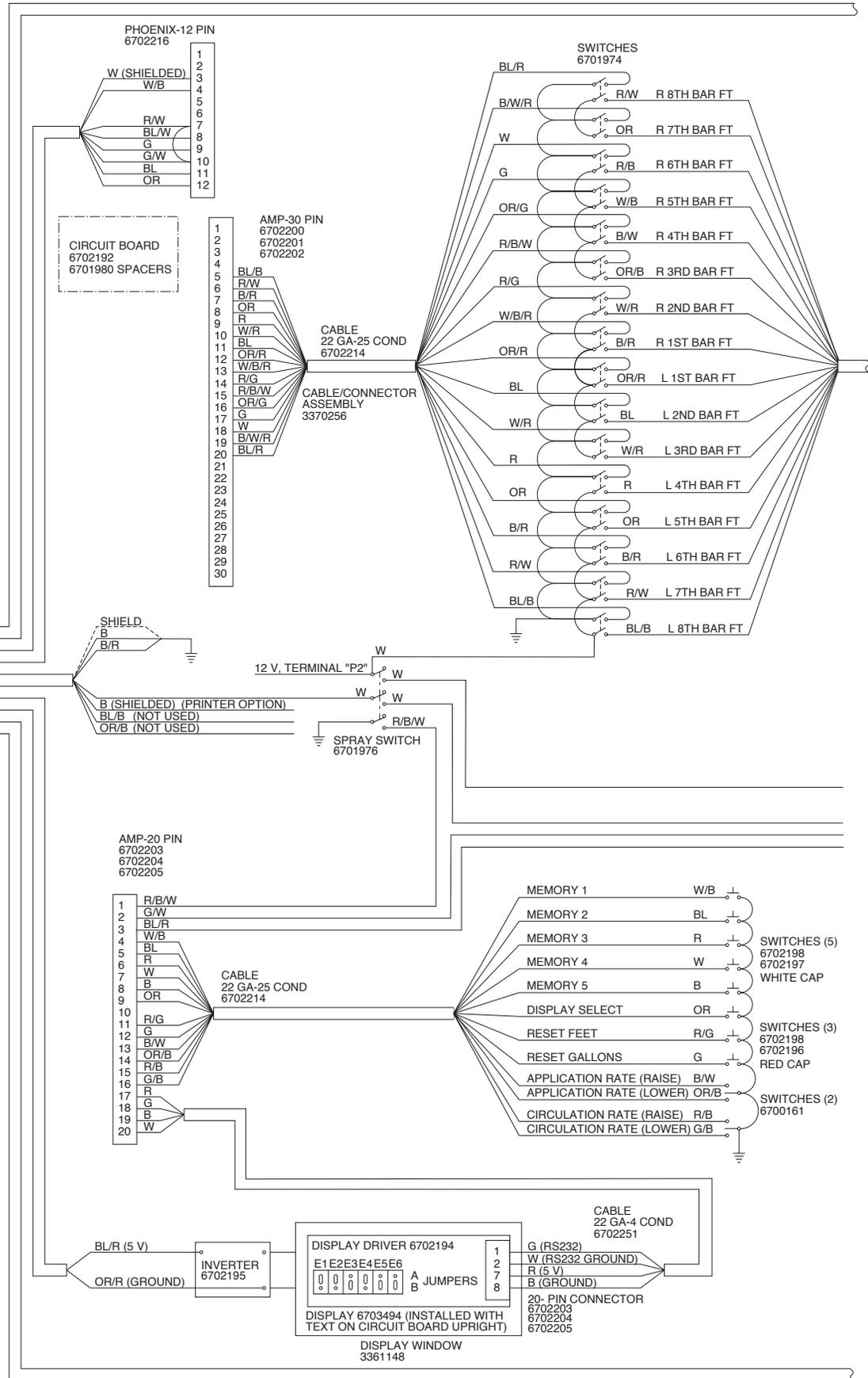


COMPUTER CASE
GROUND
(1/4" RING TERMINAL)

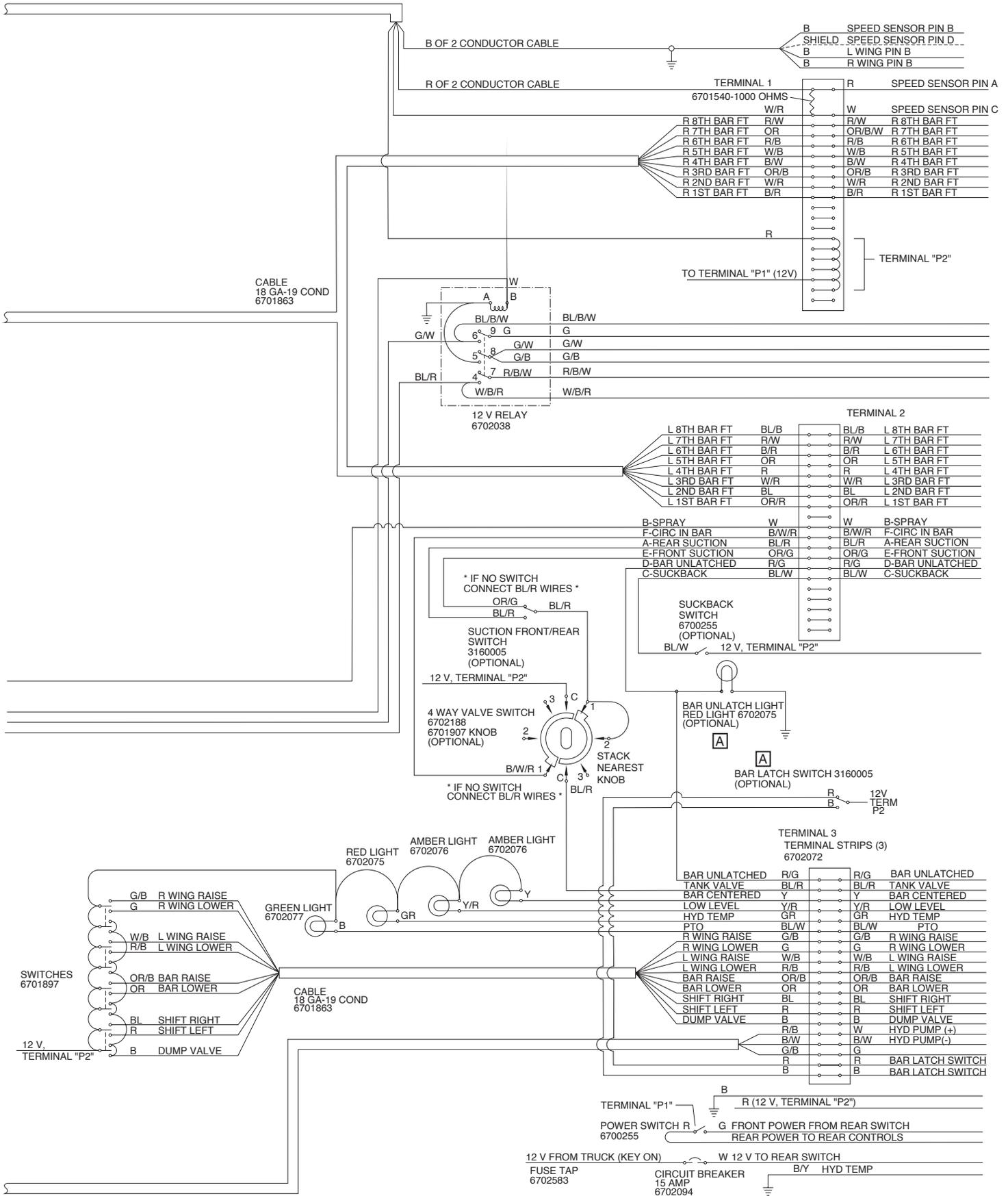
B/R

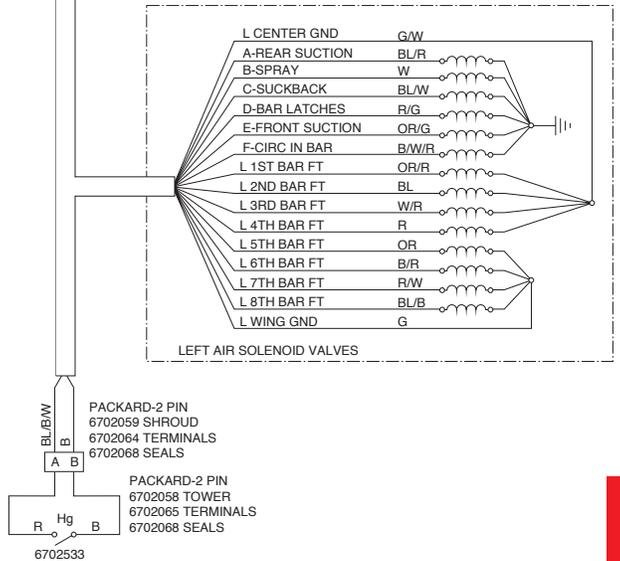
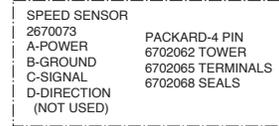
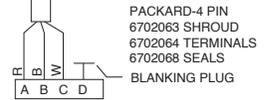
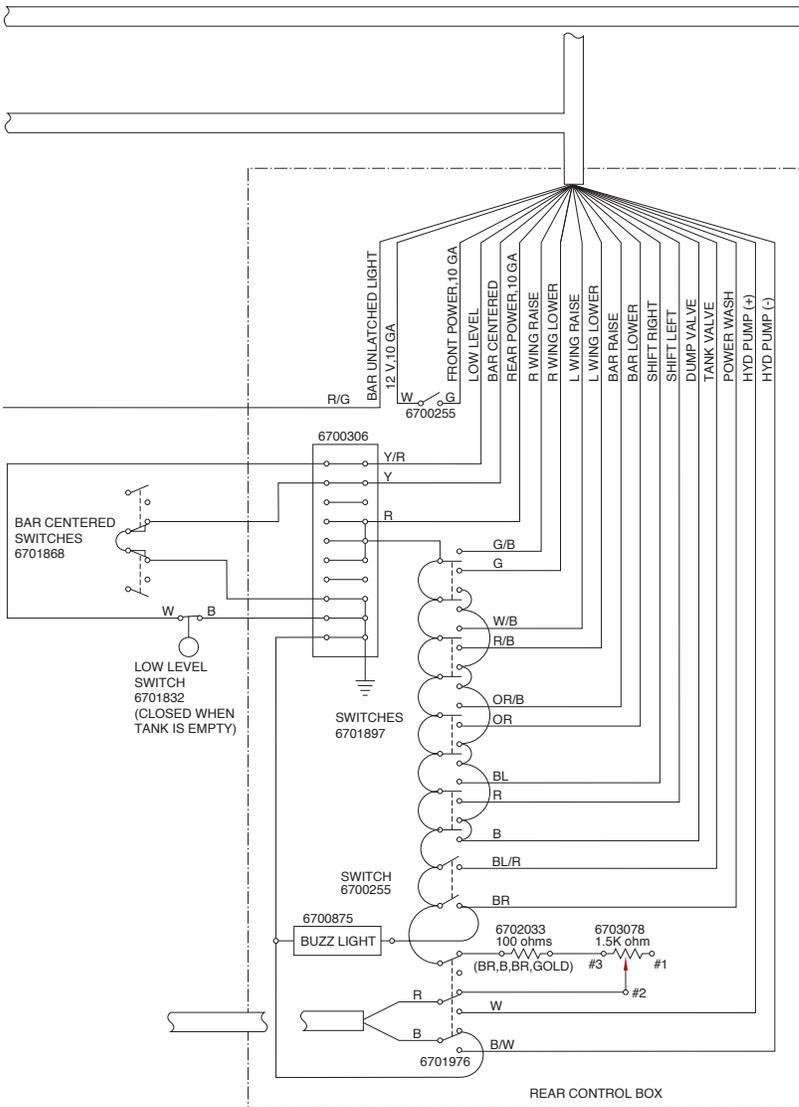
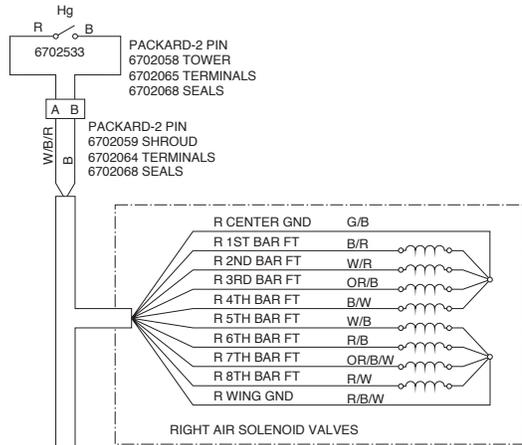
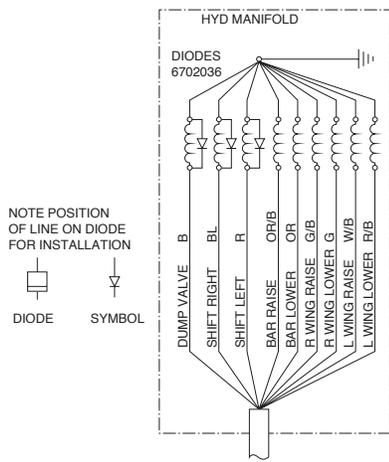
COLOR CODE:

B=BLACK
W=WHITE
R=RED
G=GREEN
BR=BROWN
BL=BLUE
OR=ORANGE
Y=YELLOW
P=PURPLE
GR=GRAY
T=TAN



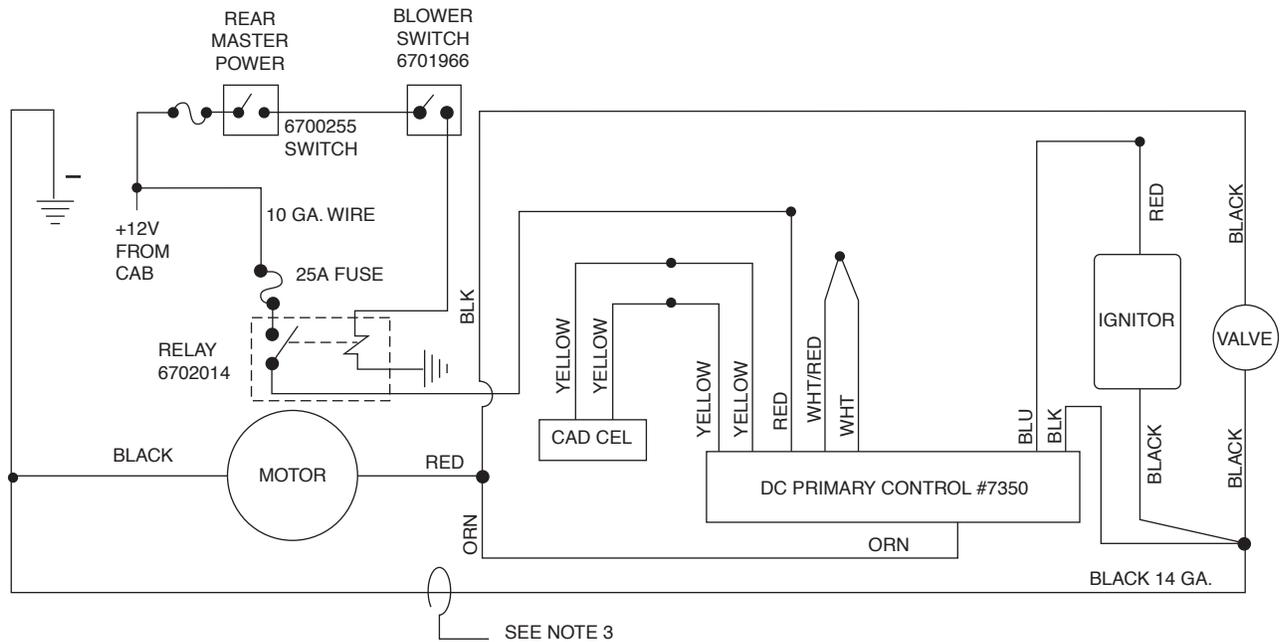
ELECTRICAL





Wiring Diagram - Fuel Oil Burners

WIRING DIAGRAM WITH PRIMARY CONTROL
(1) BURNER SHOWN

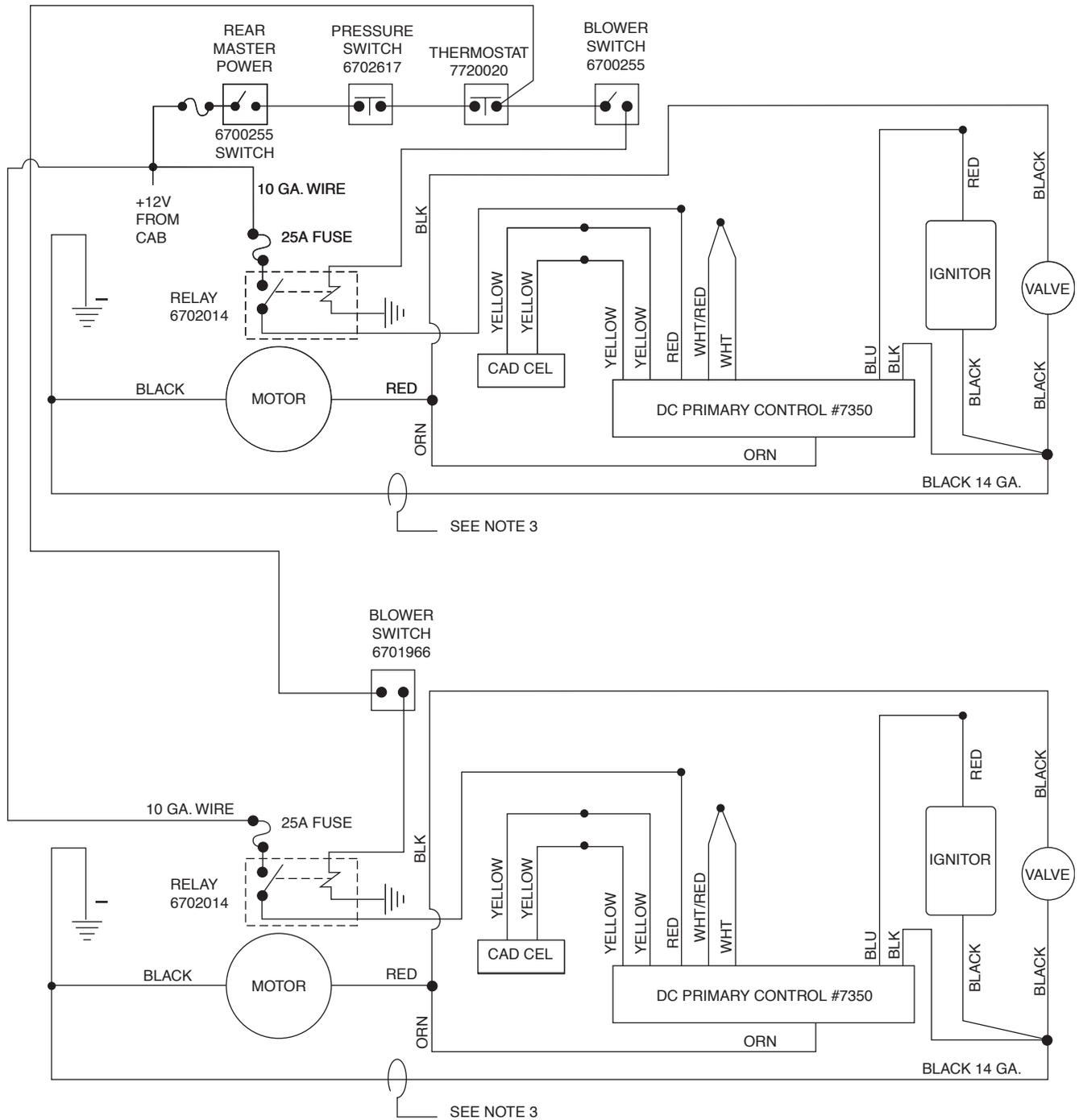


NOTES:

1. All wires to be 14 gauge minimum or as required to prevent voltage drop between battery and burner.
2. Fuse recommendation:
 Motor - 30A
 Control - 10A
3. Hard wire ground to battery. Do Not Use Chassis Ground System.

Wiring Schematic - Fuel Oil Burners W/Thermostat and Brake Interlock

WIRING DIAGRAM WITH PRIMARY CONTROL



NOTES:

1. All wires to be 14 gauge minimum or as required to prevent voltage drop between battery and burner.
2. Fuse recommendation:
 Motor - 30A
 Control - 10A
3. Hard wire ground to battery. Do Not Use Chassis Ground System.

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3380971	48	6001115	51	6320803*	5	6600152	50	6601307	31
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3390636	5	6001641	24	6420121	12	6600196	41	6601564	17
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3390655	5	6100235	31	6440164	21	6600237	17	6601566	20
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3390656	50	6100280	25	6440166	21	6600265	50	6601568	20
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3390684	43	6100284	21	6440170	21	6600277	50	6601692	41
3390695	43	6100337	14	6440170	22	6600278	50	6601714	33
3390696	5	6100441	29	6440172	20	6600279	50	6601714	46
3390709	5	6100444	15	6440200	20	6600280	50	6601768	25
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