



M-401-21

Starting with Serial Number M5255

Updated July 6, 2022

Maintenance Distributor



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

M-401-21

Starting with S/N M5255

Updated July 6, 2022

Maintenance 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)** Is shipment to be prepaid or collect? **4)** Serial numbers of units to which parts apply. **5)** Complete part numbers and descriptions. **6)** 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.



E. D. ETNYRE & CO., Oregon, Illinois 61061-9778
1333 South Daysville Road Phone: 800-995-2116 Fax: 800-521-1107

www.etnyre.com

sales@etnyre.com

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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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

CAUTION

Before breaking the seal on all hydraulic fittings, plugs, fill caps, etc. be sure to clean around the connection. Failure to do so may cause contaminants to enter the hydraulic system causing damage to pumps, motors, etc.

PROPOSITION 65 WARNING

 **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

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.

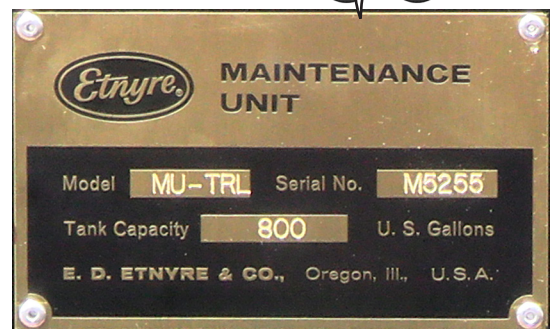
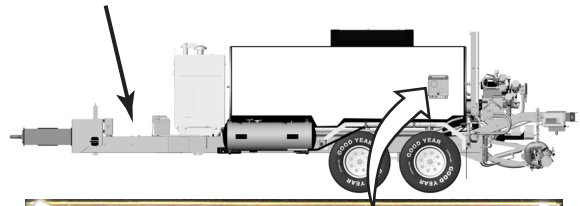
If contact with the skin occurs, wash the affected areas immediately with water. Then rub a 2.5 calcium gluconate gel into the skin until there is no further irritation, while seeking prompt medical attention.

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

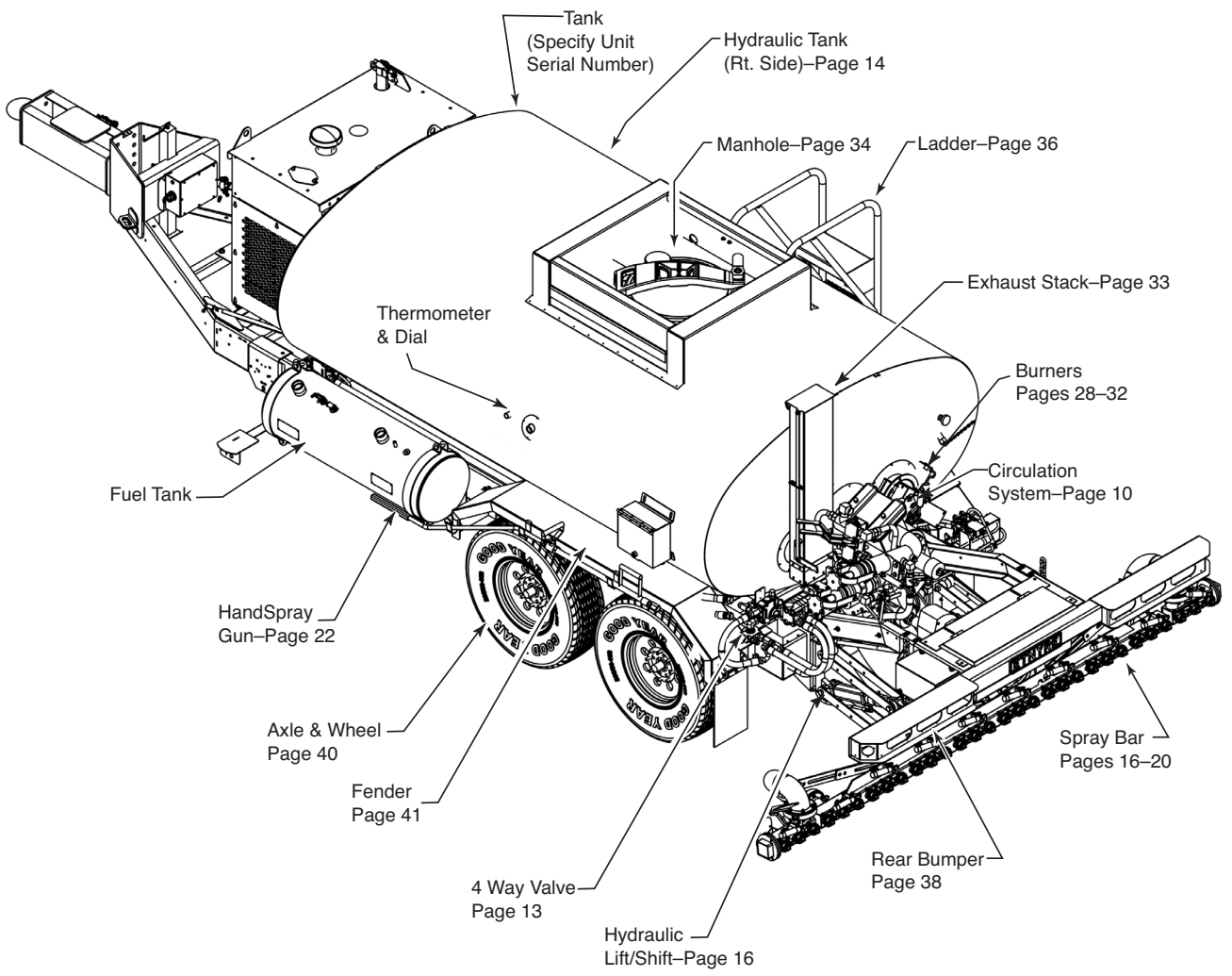
Serial Number Plate Location

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

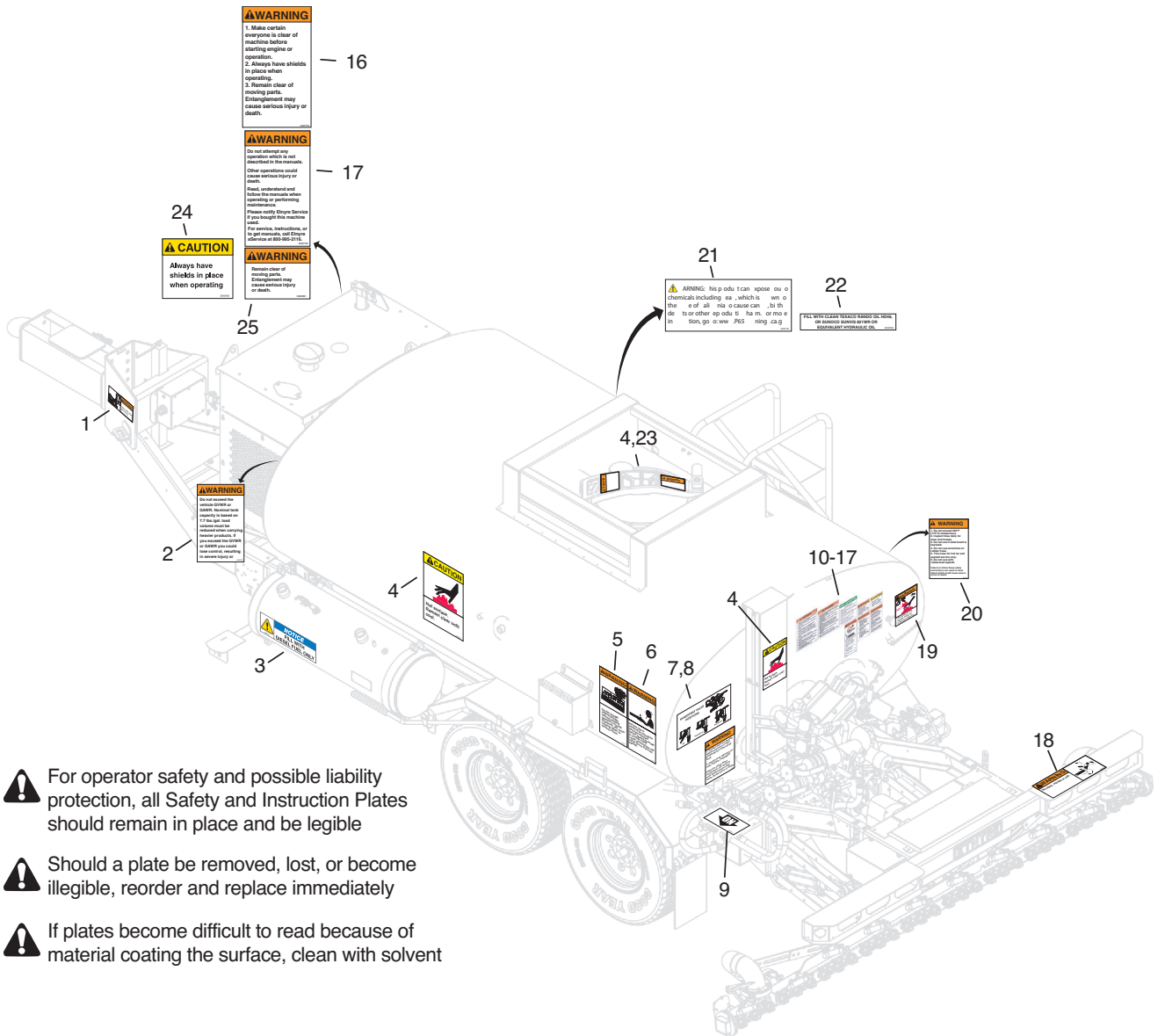
The unit serial number is also stamped on the trailer tongue.



General Identification



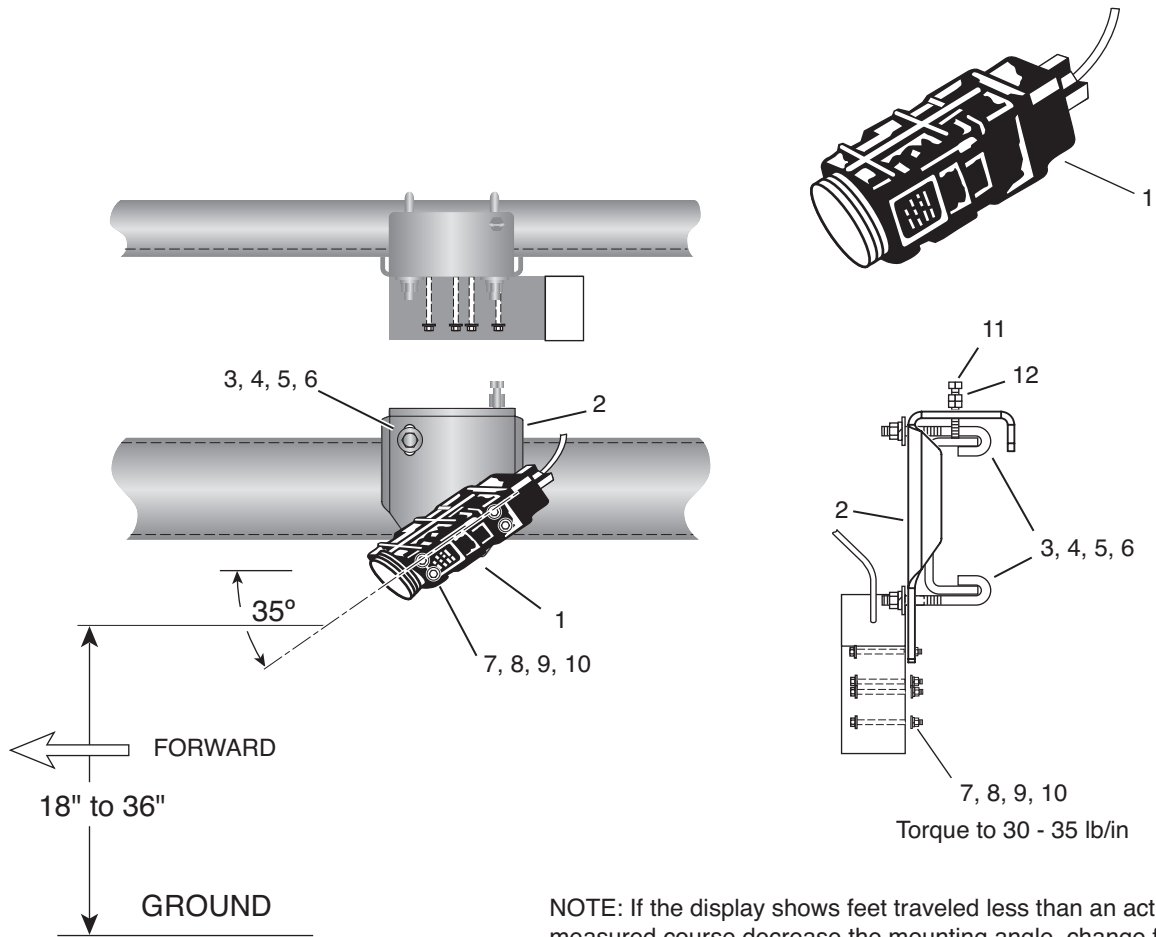
Warning And Instruction Plates



- 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 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	3830529	2	Decal-Warning Safety Chain	15	3390636	1	Plate-Warning, Do Not Light Burners
2	6320790	1	Decal-Warning, Do Not Exceed GVWR	16	6320796	2	Decal-Warning, Make Certain Everyone
3	3390725	1	Decal-Notice, Fill with Diesel Fuel Only	17	6320793	2	Decal-Warning, Do Not Attempt
4	6320797	3	Decal-Caution, Hot Surface	18	6320804	1	Decal-Warning, No Riders
5	6320789	1	Decal-Warning, Do Not Change Grades	19	6320784	1	Decal-Warning, HOT Surfaces, Liquids
6	6320795	1	Decal-Warning, Fill Line Cap	20	6320802	1	Decal-Warning, Do Not Exceed 350°F
7	2660246	1	Decal-Handspray Valve Positions	21	6322159	1	Decal-Proposition 65
8	3390732	1	Decal-Warning, Product Must Not Exceed	22	6320786	1	Decal-Fill With Clean Texaco Rando Oil
9	2690385	1	Decal-ON	23	3390679	1	Decal-Warning, Manhole
10	6320799	1	Decal-Warning, Always Have Dry Chem.	24	3390683	1	Decal-Caution, Always Have Shields
11	6320798	1	Decal-Warning, If Moisture Is Present	25	3390681	1	Decal-Warning, Remain Clear of Moving
12	6320955	1	Decal-Safety Instructions, Fuel Oil Burn.				
13	3390681	1	Decal-Warning, Remain Clear				
14	3390683	1	Decal-Caution, Always Have Shields				

Radar Speed Sensor Installation Optional



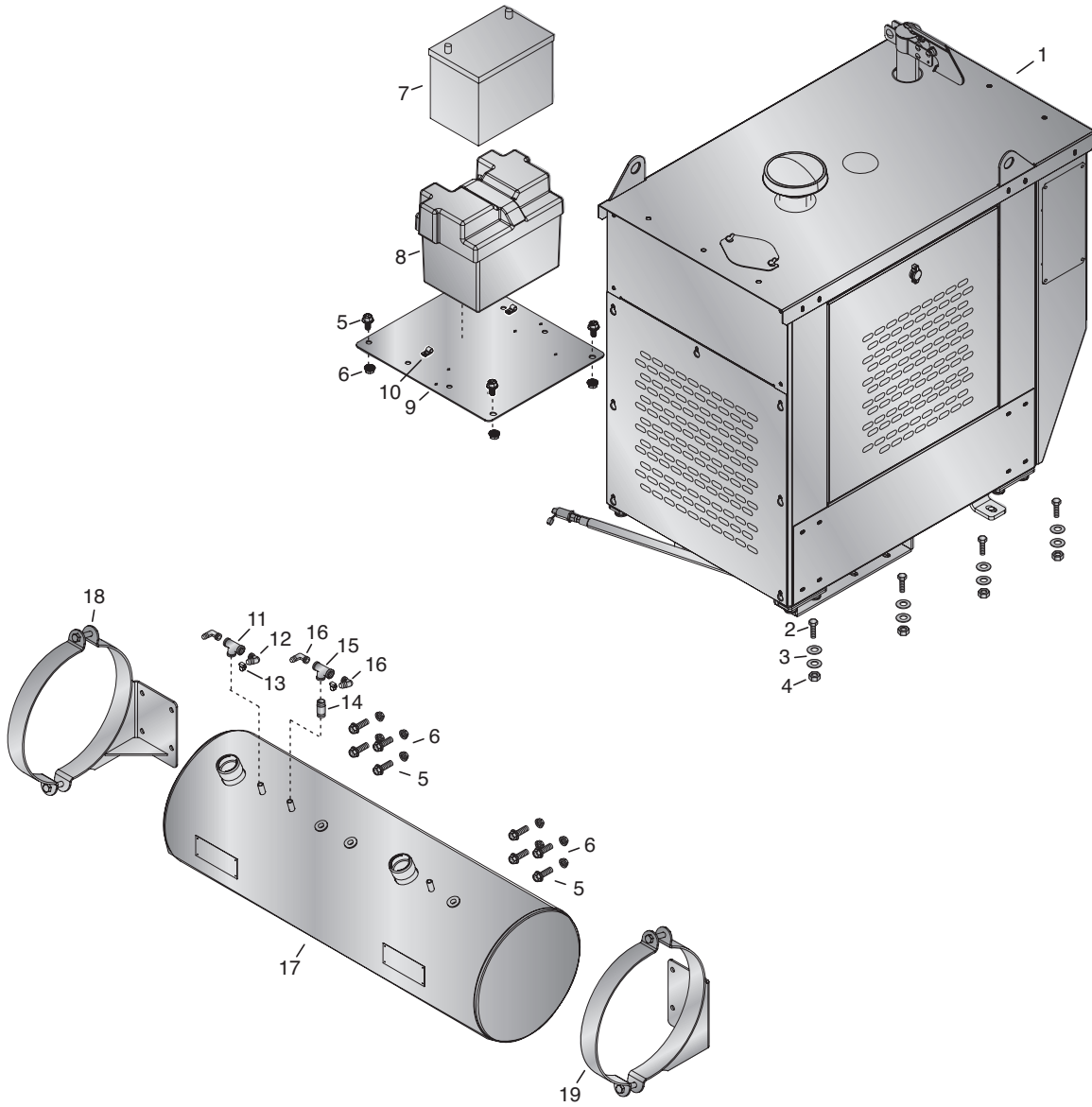
NOTE: If the display shows feet traveled less than an actual measured course decrease the mounting angle, change from 35° to 34°.

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	Radar Head-Speed Sensor w/o Plug	8	0120386	8	FlatWasher-0.25
	7530050	1	Kit - Window Cover	9	9413946	4	Lock Nut-0.25NC
	PD10253	1	Decal-Warning	10	3370254	4	Spacer
2	2681231	1	Mounting Plate Asm	11	0110456	1	Screw-SqHd, 0.50NC x 3.00
3	3360726	2	Hook Bolt	12	0120378	1	Nut-0.50NC
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				

Engine Power Pack



ENGINE

Engine Power Pack

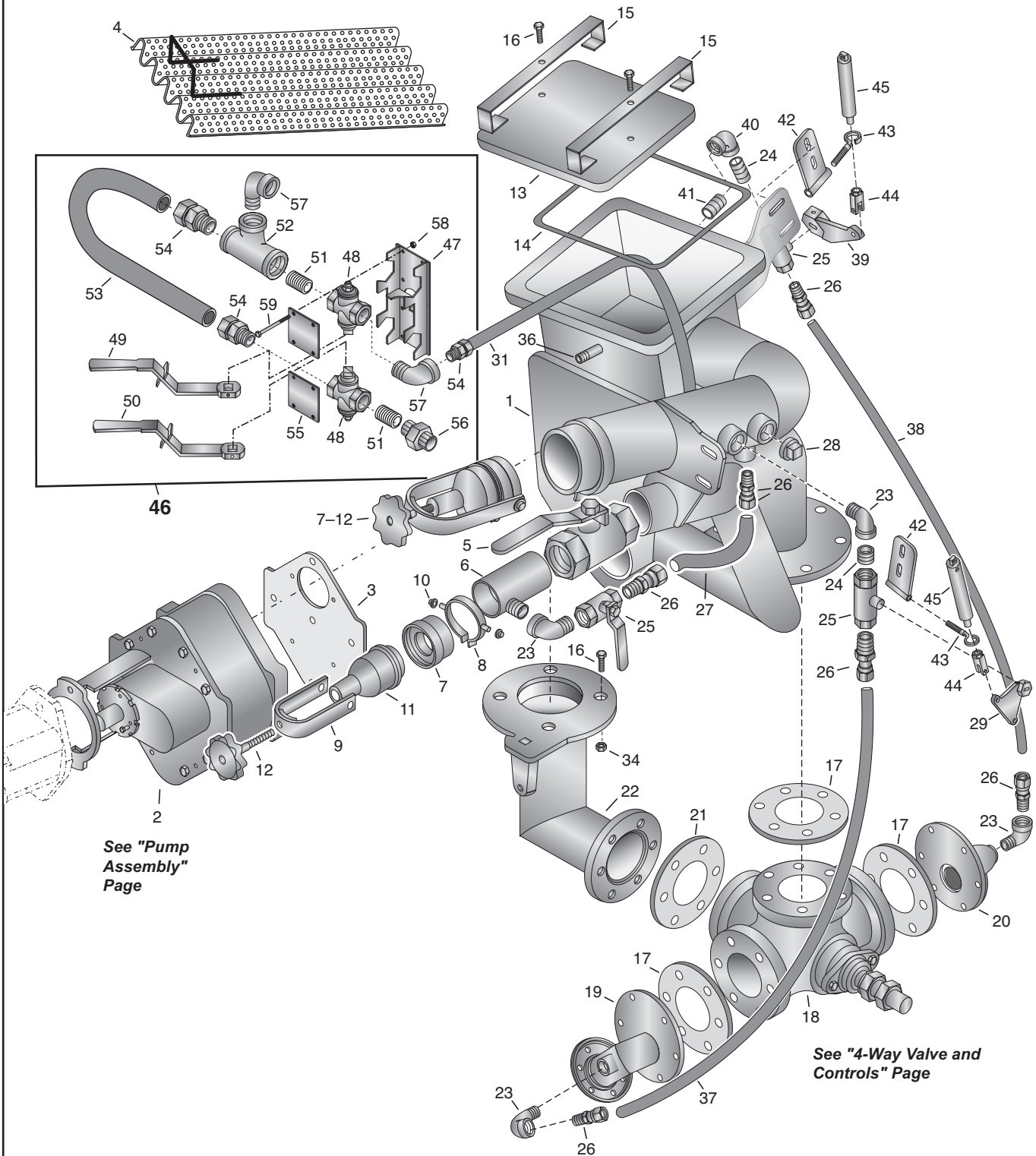
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6400756	1	Engine-Kubota D1803, 49.6 HP				
2	0180177	8	Screw-hex, 0.5"NC x 1.5", Gr5, PD				
3	0120390	16	Washer-Large, OD 0.5"				
4	9411727	8	Nut-Hex, Lock, 0.5"NC, EA, PD				
5	6100881-03	12	Bolt-Wiz, 0.5"UNC x 1.0", Gr5, PD				
6	6100883	12	Nut-Flange, 1/2-13, Gr2, PD, Serrated				
7	6700239	1	Battery-12V, 50 Amp, Elc Str				
8	6705075	1	Box Asm-Battery, Group Size27				
9	2690442	1	Plate-Battery Mount				
10	6000056	2	Clamp-0.38" Rub Tube				
11	6201202	1	Tee-Pipe, 0.25"NPT, Brass				
12	6602402	2	Hose Barb-06 X 04MP, 90, LP				
13	6001005	2	Clamp-Hose, Screw Type, M5				
14	6201201	1	Nipple, Sch80, 0.38" x Close, PN				
15	6201199	1	Tee-Pipe, 0.38"NPT, Brass				
16	6602398	2	Hose Barb-06 x 06MP, 90, LP				
17	2681197	1	Tank Asm-Fuel, 14" x 42", LH				
18	2681199	1	Bracket Asm-Tank, Fuel, Hyd, RH, 14"				
19	2681202	1	Bracket Asm-Tank, Fuel, Hyd, LH, 14"				

ENGINE

Circulation System

Air Operated - 2641121

CIRCULATION SYSTEM



See "Pump Assembly" Page

See "4-Way Valve and Controls" Page

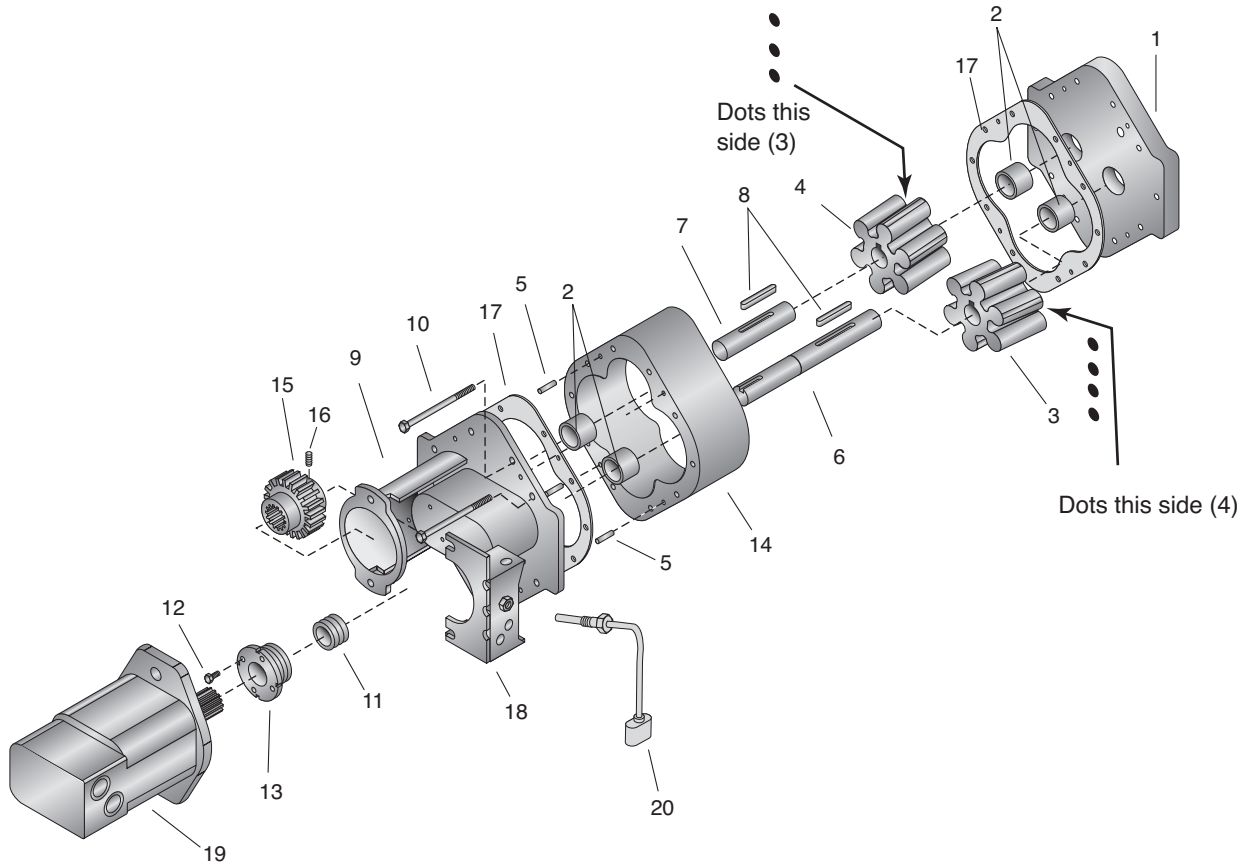
Circulation System
Air Operated - 2641121

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2641080	1	Strainer Box Weldment	48	6600726	2	Cock-Steam, 1.0", 2 way, SqHd, Brass
2	2640609	1	Pump Asm-200MU	49	3361607	1	Handle Asm-Handspray, w/ Pull
3	2640884	1	Gasket-Pump / Strainer Box	50	3361608	1	Handle Asm-Handspray, Suck Back
4	2641099	1	Strainer w/ Handle	51	0127874	2	Nipple-Sch40, 1.0" x 1.5", CL, PN
5	6601839	1	Valve-Ball, 2.0" #70-108-01	52	0115237	1	Tee-Pipe, 1.0"NPT, PN
6	2641100	1	Transfer Cap Pipe Weldment	53	3342640	1	Tube-Handspray, 1.0", U-Bend
7	2640797	1	Suction Pipe Asm-Strainer	54	6604024	3	Adapter-Tube, ST, 16MP-16FT
8	3341078	1	Ring Asm-Clamping Transfer Valve	55	3342653	2	Lid-Handspray Valve
9	3340041	2	Clamp Asm-3 Hose Connection	56	6000416	1	Union-Railroad, 1.0"
10	6001056	4	Cap-Retainer, 0.5" Dia. Stud	57	0108687	2	Elbow-Pipe, 90, ST, 1.0"NPT, PN
11	3380388	2	Cap Asm-Fill Line	58	9411638	4	Nut-Hex, Lock, 0.31"NC, EA, PD
12	3340033	2	Clamp Asm-Screw, Filling Line	59	0180113	4	Screw-Hex, 0.31"NC x 3.0", Gr5, PD
13	2641103	1	Lid-Strainer Box, Clamp On				
14	2641104	1	Gasket-Strainer Box				
15	3341964	2	Clamp Bar Asm-Strainer Box Lid				
16	0180122	38	Capscrew-0.375"UNC x 1.0" Lg, Gr5				
17	3340515	3	Gasket-Flange, 3 Way Valve				
18	3341441	1	4.0" 4 Way Valve Asm				
19	2641105	1	Bar Pipe Flange Weldment, LH				
20	2641109	1	Bar Pipe Flange Weldment, RH				(NS) = Not Shown
21	3340519	1	Gasket-Cover, 3 Way Valve				
22	2641110	1	Tube Asm-Return and Transfer				
23	0141621	4	Elbow-90, ST, 0.75"NPT, PN				
24	0144613	2	Nipple, 0.75"NPT x 1.375"				
25	6602237	3	Valve-Ball, 0.75", Bronze				
26	6604065	6	Adapter-Arbk, ST, 12MP-12MT				
27	2641115	1	Tube-Transfer Suck Back				
28	0219301	5	Plug-Pipe, SqHd, 0.75"NPT, PN				
29	2641122	1	Arm Weldment-LH Suck Back Valve				
30	6604024	1	Adapter-Tube, ST, 16MP-16FT (NS)				
31	3641117	1	Handspray Press Line				
32	0120377-CR	1	Nut-Hex, 0.375"NC, PCR (NS)				
33	6002471	1	Setscrew-0.38"NC x 1.25" Lg (NS)				
34	0274993	24	Nut-Hex, Lock, 0.375"NC, PD				
35	0120388	26	Washer-Flat, SAE STD, 0.375" (NS)				
36	2640735	1	Nipple-Strainer Lid				
37	2641144	1	Tube-LH Suck Back				
38	2641145	1	Tube-RH Suck Back				
39	2641123	1	Arm Weldment-RH Suck Back Valve				
40	0119099	1	Elbow-Pipe, 90, 0.75"NPT, PN				
41	0126168	1	Nipple-PP, Sch40, 0.75" x 3.0" Lg, PN				
42	2641126	2	Bracket Weldment-Air Cyl., Suck Back				
43	6100280	2	Bolt-Eye, 0.31" x 2.5", PN				
44	6602339	2	Clevis-Rod, Cylinder				
45	6603150	2	Cylinder-Air, 1.06" x 3.0", Dbl Act				
46	2641116	1	Handspray Control Asm (Includes Ref #'s 47 - 59)				
47	3342657	1	Stop Asm-Valve Handle				

CIRCULATION SYSTEM

Pump Assembly - 200MU

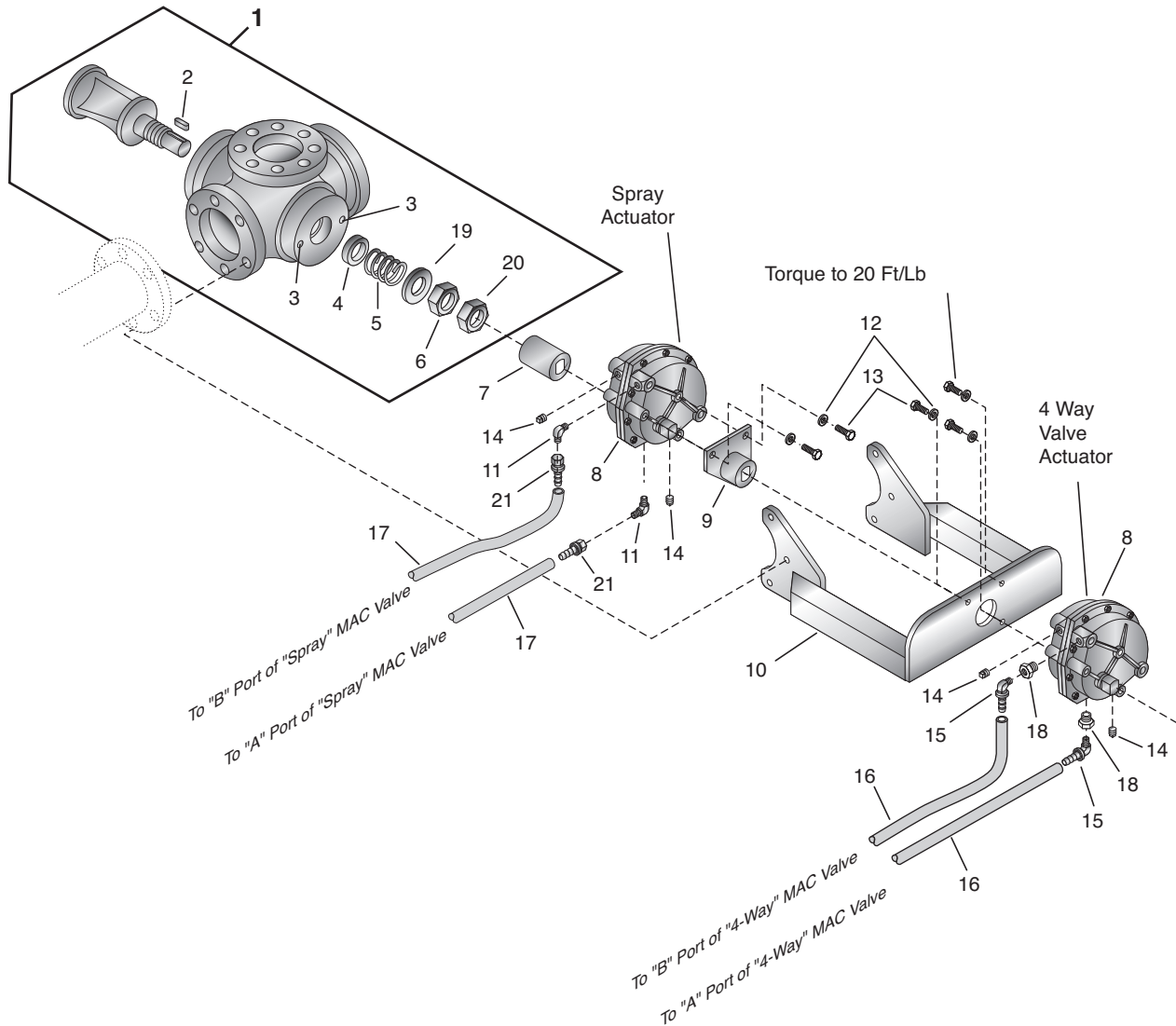
2640609



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2640607	1	Portside End Plate-Machined	17	2640932	2	Gasket-Pump
2	6420211	4	Bushing-1.44 ID x 1.75 x 1.25 Lg	18	3361274	1	Asphalt Pump Shaft Guard
3	3340279	1	Impeller-Herringbone, LH w/Key	19	6604574	1	Motor-6.2 Cu. In., SAE B, 14T Spline
4	3340277	1	Impeller-Herringbone, RH w/Key	2640727	2	Thrust Washer-200 GPM Pump, Brass	
5	6100444	4	Pin-Dowel, 1/4 x 3/4 Lg	20	6702531	1	Sensor-Hall Effect, Speed, 3/8
6	2640694	1	Pump Shaft-200MU				
7	2640695	1	Pump Shaft-Idler, 200MU				
8	2640725	2	Keystock 1/4 x 1/4 x 2 1/2 Lg				
9	2640604	1	Front Face Plate Subweldment				
10	6001576	10	Bolt-Hex, 0.38-16NC x 5, Gr 8				
11	6600310	1	Pk-Rg, 1.5ID x 2 OD, Packmaster #3				
12	0211887	1	Screw-Hex, 1/4NC x 3/4, Gr 2, PD				
13	2640885	1	Nut-Packing, P15 Pump				
14	2640608	1	Case-Pump, #1, Machined				
15	2660128	1	Gear Spline Asm				
16	0102581	1	Screw-Sock, 0.31NC x 0.38, Cup, PN Note: Part of Ref. 15 (2660128 Gear Spline Asm)				

4 Way Valve and Controls

3341441

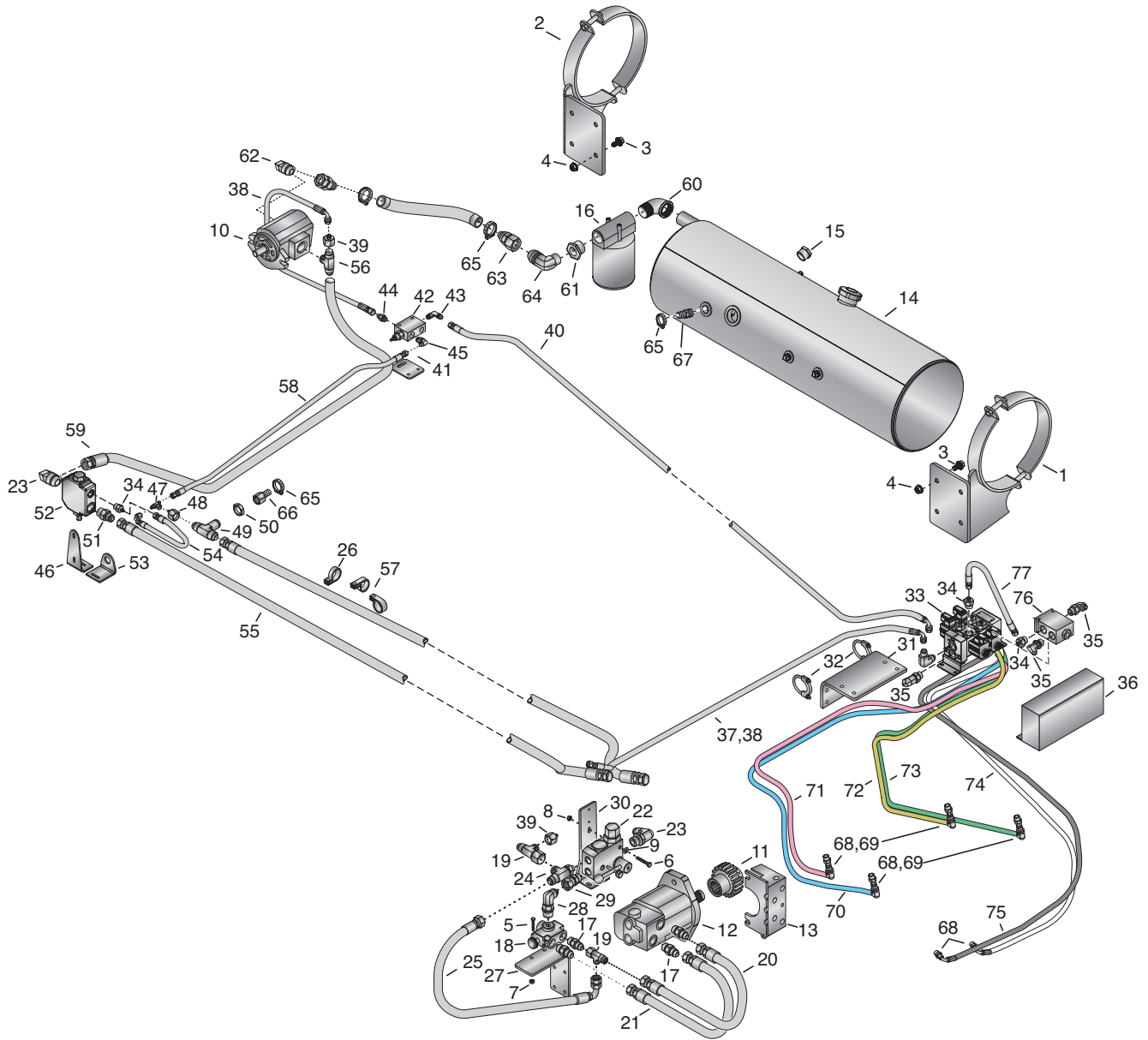


CIRCULATION SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3341441	1	4 Way Valve Asm (Includes Ref #'s 2-6, 19, 20)	12	0120382	6	Washer-Lock,3/8, Spring,PD
2	6000224	1	Key-0.31 x 0.31CR x 1.00	13	6001062	6	Screw-Hex,3/8NC x 1,Gr 8,PD
3	0125947	2	0.12 Slotted Pipe Plug	14	0219189	4	Plug-Pipe,SqHd,1/4NPT,PN
4	3340029	4	Packing	15	6602242	2	Hose End-3/16" Hose x 1/8" MPT,90
5	3341464	1	Spring	16	6609255	AR	Hose-Fuel/Air,0.19 ID/FT
6	3341187	1	Stem Nut	17	6600324	AR	Hose- 3/8
7	3361292	1	Coupling-Rotary Actuator	18	0144035	2	Bushing-Pipe, 1/4 X 1/8
8	6603023	2	Actuator-Rotary,Vane,Air	19	197070	1	Washer-Flat 1 3/8
	PD11034	1	Seal Kit	20	3341648	1	Nut-Lock, Valve Stem
9	3361291	1	Coupling-Rotary Actuator	21	6600306	2	Hose End-06X06FSX, ST, LPSP
10	3311750	1	Frame-Rotary Actuator				AR = As Required
11	0118755	2	Elbow-Auto,90,04MP-06MS				

Specify Unit Serial No., Part No., & Part Description

Lift / Shift Hydraulics 2690443



HYDRAULIC

Lift / Shift Hydraulics

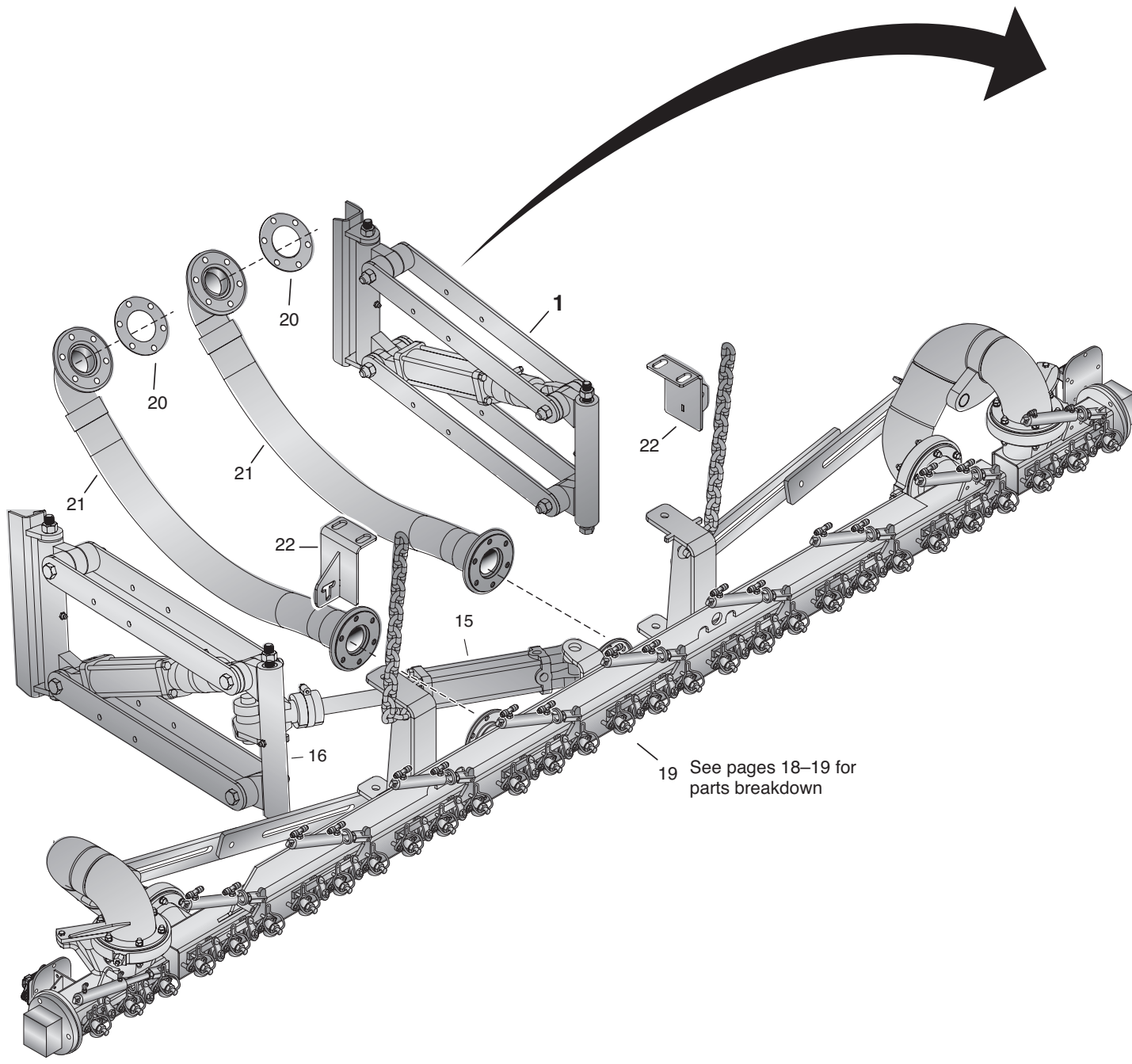
2690443

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2681215	1	Bracket-Tank, Fuel, Hyd, LH	48	6601885	1	Adapter-Hyd, ST, 12FJ-04MJ
2	2681218	1	Bracket-Tank, Fuel, Hyd, RH	49	6604578	1	Tee-Hyd, BulkHead, 12MJ-12MJ-12MJ
3	6100881-03	8	Bolt-Wiz, 0.5"UNC x 1.0", Gr5, PD	50	6604579	1	Nut-Hyd BulkHead, -12, 1.06-12NF
4	6100883	8	Nut-Flange, 1/2-13, Gr2, PD, Serrated	51	9410205	1	Adapter-Hyd, ST, 12MB-12MJ
5	0180087	2	Capscrew-Gr5, 0.313"UNC x 2.0" Long	52	6604605	1	Valve-Sequence, 350-1700 PSI
6	0180048	4	Screw-Hex, 0.25"NC x 2.5", Gr5, PD	53	2680875	1	Bracket-Bulkhead Tee
7	9411638	2	Nut-Hex, Lock, 0.313"NC, PD	54	2690324	1	Hose Asm-04 x 15.0", 04FJX-04FJX, 90 <i>(Sequence Valve, Tank to Return Line)</i>
8	9413946	4	Nut-Hex, Lock, 0.25"NC, EA, PD	55	3180704	2	Hose Asm-12 x 112.75", 12FJX-12FJX
9	0120386	2	Washer-Flat, 0.25A (0.31" x 0.73), PD	56	6604142	1	Tee-Hyd, 12MJ-12MJ-12MB
10	6603954	1	Pump-1.349 CIR, RH, 13T, B, MT	57	6000059	6	Clamp-0.62"
11	2660128	1	Gear Spline Asm	58	2690325	1	Hose Asm-04 x 36.0", 04FJX-04FJX <i>(Reducing Valve to Return Line)</i>
12	6604575	1	Motor-Hyd, 6.2, SAE B, 14T Spline	59	2790344	1	Hose Asm-12 x 60.0", 12FJX-12FJX, 90
13	3361274	1	Speed Sensor Bracket Asm	60	0111001	1	Elbow-Pipe, 90, ST, 1.25"NPT, PN
14	2681221	1	Tank Asm-Hyd, 12x40, RH, 20 Gal	61	0125915	1	Bushing-Pipe, 1.25" x 1.0"NPT, PN
15	6600224	1	Plug-Oil, Eye Site	62	6601568	1	Elbow-Hyd, 90, 16MB-16MJ
16	3321602	1	Filter Asm-Hyd Vacuum, 10 Micron	63	6601566	2	Hose End-16-16FJX, ST, LP100R4
17	6600910	4	Adapter-Hyd, ST, 10MB-12MJ	64	6601135	1	Elbow-Hyd, 90, 16MJ-16MP
18	6604653	1	Valve-Selector, 20 GPM, 2500 PSI	65	6000792	4	Clamp-Hose, Worm Drv, 1.06 to 2.0
19	9410335	2	Tee-Hyd, 12MJ-12FJX-12MJ	66	6600648	1	Hose End12 x 12FJX, ST, PushLok
20	2690318	1	Hose Asm-12 x 28.0", 12FJX-12FJX <i>(Motor Out to Selector)</i>	67	6600647	1	Hose End-12 x 12MP, ST, LPSP
21	2690318	1	Hose Asm-12 x 29.0", 12FJX-12FJX <i>(Tee to Filter, Pump Valve to Pump In)</i>	68	6602751	6	Adapter-Hyd, ST, 06MP-04MJ
22	6604575	1	Valve-Adj Flow, 16 GPM, w/ Relief	69	9410278	4	Elbow-Hyd, 90, 04FJX-04MJ
23	9410979	2	Elbow-Hyd, 90, 12MB-12MJ	70	2690332	1	Hose Asm-04 x 89.0", 04FJX-04FJX <i>(Manifold Valve to Left Lift Cyl Rod)</i>
24	9411133	1	Tee-Hyd, 12MB-12MJ-12MJ	71	2690331	1	Hose Asm-04 x 79.0", 04FJX-04FJX <i>(Manifold Valve to Left Lift Cyl Base)</i>
25	2690320	1	Hose Asm-12 x 23.0", 12FJX-12FJX, 90 <i>(Rear Valve Return Jumper)</i>	72	2690334	1	Hose Asm-04 x 56.0", 04FJX-04FJX <i>(Manifold Valve to Right Lift Cyl Rod)</i>
26	6001427	7	Clamp-Rubber Coated, 1.25"	73	2690333	1	Hose Asm-04 x 46.0", 04FJX-04FJX <i>(Manifold Valve to Right Lift Cyl Base)</i>
27	2681011	1	Bracket-Pump Valve, Knob	74	2690337	1	Hose Asm-04 x 66.0", 04FJX-04FJX, 90 <i>(Manifold to Bar Shift Cyl Base)</i>
28	6601811	1	Elbow-Hyd, 90, 10MB-12MJ	75	2690338	1	Hose Asm-04 x 75.0", 04FJX-04FJX, 90 <i>(Manifold to Bar Shift Cyl Rod)</i>
29	6602096	1	Adapter-Hyd, ST, 12MB-12FJX	76	6604685	1	Valve-Cart, 50/50 Flow Div, 4 GPM
30	2680903	1	Bracket-Flow Valve	77	6604708	1	Hose Asm-04 x 13.75", 04FJX-04FJX
31	2681048	1	Bracket-Manifold Valve				
32	6001482	2	Clamp-Muffler, 1.5", Plated				
33	6604705	1	2 Station ED1- Lift/Shift				
34	6602363	6	Adapter-Hyd, ST, 04MJ-08MB				
35	6604263	4	Elbow-Hyd, 90, 08MB-06MJ				
36	2680962	1	Cover-Hyd Manifold				
37	2620273	4	Hose Asm-06 x 52.0", 06FJX-06FJX, 90 <i>(Manifold to Return Line)</i>				
38	2620273	4	Hose Asm-06 x 52.0", 06FJX-06FJX, 90 <i>(Manifold to Return Line)</i>				
39	6603224	2	Adapter-Hyd, ST, 12FJ-06MJ				
40	2620274	1	Hose Asm-06 x 130.0", 06FJX-06FJX, 90 <i>(Reducing Valve to Manifold)</i>				
41	2680901	1	Bracket-Reducing Valve				
42	6604606	1	Valve-Reducing, 100-3000 PSI				
43	9410976	1	Elbow-Hyd, 90, 06MB-06MJ				
44	9410202	1	Adapter-Hyd, ST, 06MB-06MJ				
45	6602164	1	Elbow-Hyd, 90, 06MB-04MJ				
46	2680900	1	Bracket-Sequence Valve				
47	9410304	1	Tee-Hyd, 04MJ-04MJ-04FJX				

HYDRAULIC

Spraybar with Lift / Shift 2650889

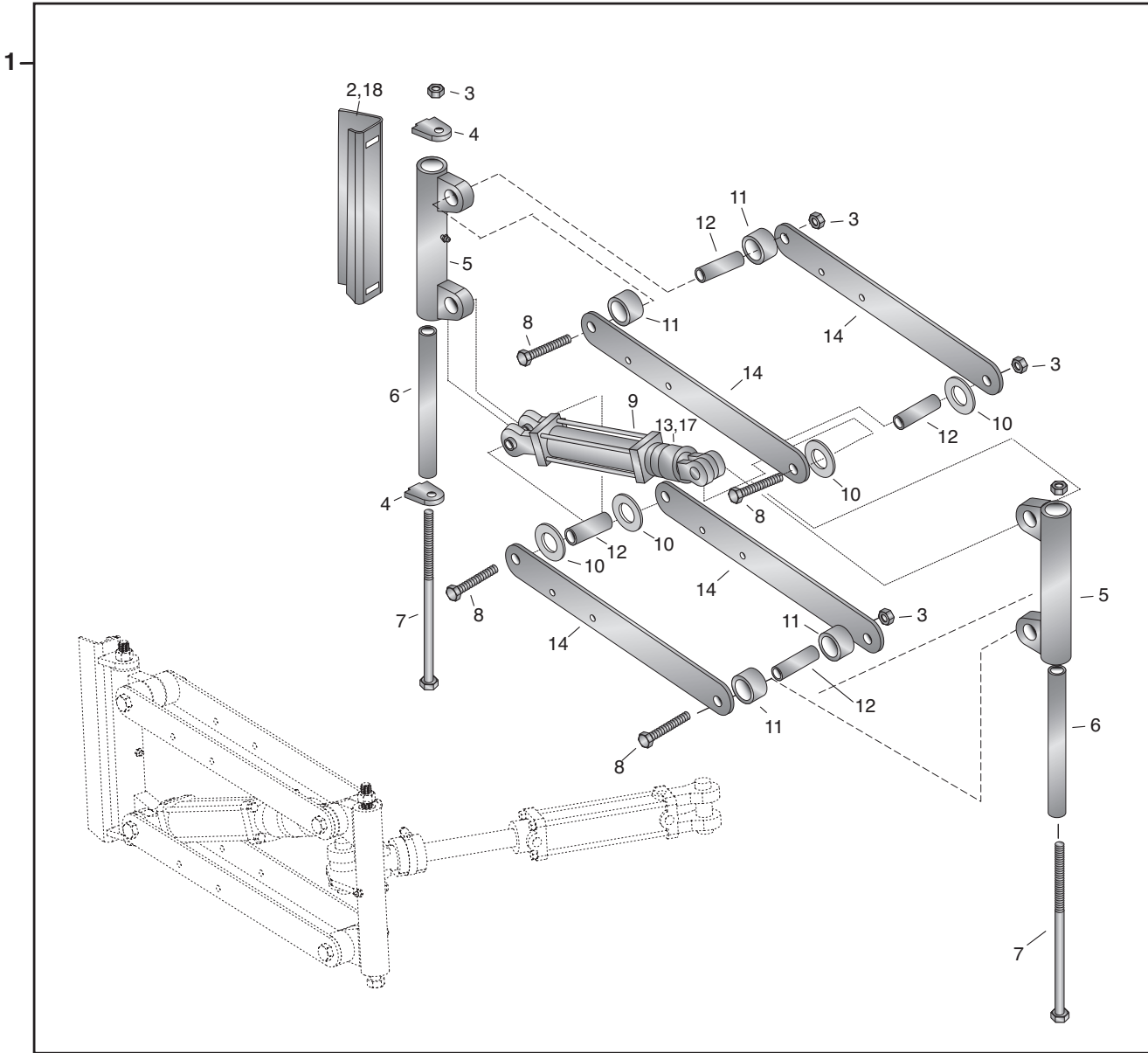
SPRAY SYSTEM



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2650832	1	Hyd Lift/Shift Inst, MU Trailer (Includes Ref 2-18)	6	2650515	4	Tube-Inner, Bar Carry
2	2611033	1	Bracket-Support, Bumper, LH	7	6100435	4	Screw-Hex, 0.63"UNC x 13.0", Gr5
3	9413948	12	Nut-Hex, Lock, 0.62"NC, EA, GRA, PD	8	0228011	8	Screw-Hex, 0.63"NC x 4.75", Gr8, PD
4	2611038	4	Lug-Mount, Bar Carry, Slot/Tab	9	6601781	2	Cylinder-Hyd, 2.0" x 6.0"
5	2650517	3	Horz/Vert Pivot Asm-Bar Carry	10	2650562	8	Spacer-Bar Carry, 5/16"
				11	2650563	8	Spacer-Bar Carry, 1-1/16"

Spraybar with Lift / Shift

2650889



SPRAY SYSTEM

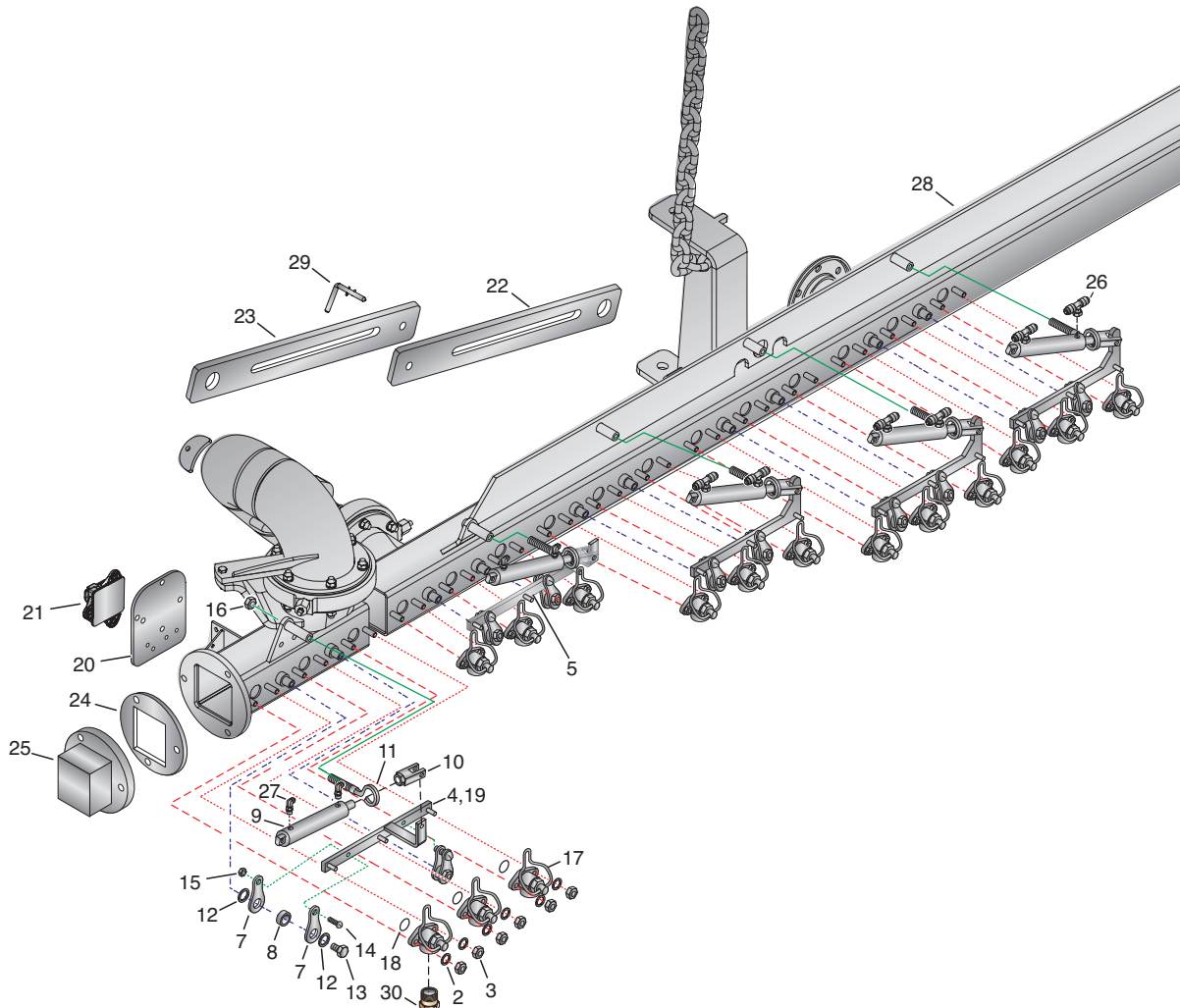
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
12	2650516	8	Tube-Vertical Pivot, Bar Carry	18	2611034	1	Bracket-Support, Bumper, RH
13	2650561	2	Stop, 12.0" Spray Height Cyl	19	2650881	1	Spraybar-10', 8' Center
14	2650513	8	Plate-Arm, Bar Carry	20	6001201	2	Gasket-2.0" Flange
15	2690395	1	MU Shift Cylinder	21	6604577	2	Hose Asm-SST, 2.0" x 34.5" w/ Guard
16	2650830	1	Side Shift-Horz/Vert Pivot Asm	22	2681205	2	Bar Latch Asm
17	6600906	2	Clamp-Hose, Worm Drive, 1.81" x 2.75"				

Specify Unit Serial No., Part No., & Part Description

10.0', 8.0' Spraybar

2650881

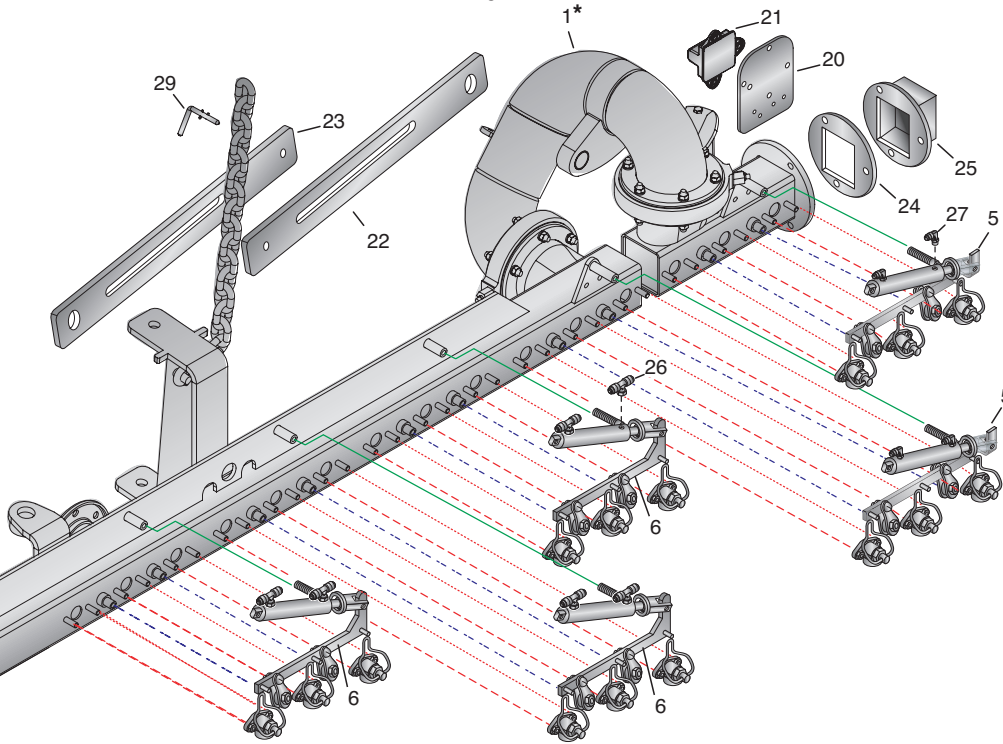
SPRAY SYSTEM



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2650882	1	Spraybar-10' Wing	6	3352754	6	Buss Bar Asm-Spray Bar, Mod
2	0120214	60	Washer-Lock, Spring, 0.31"	7	2650637	40	Lever-Guide, Spraybar
3	0120376	60	Nut-Hex, 0.313"NC	8	2650636	20	Spacer-Guide Lever
4	3352753	1	Buss Bar Asm-Mod, Left End	9	6601768	10	Cylinder-Air, 1.06" x 2.0"
5	3352581	3	Buss Bar Asm-RH Hinge Section	10	6602339	10	Clevis-Rod, Cylinder

10.0', 8.0' Spraybar

*See Page 20 for Parts Breakdown



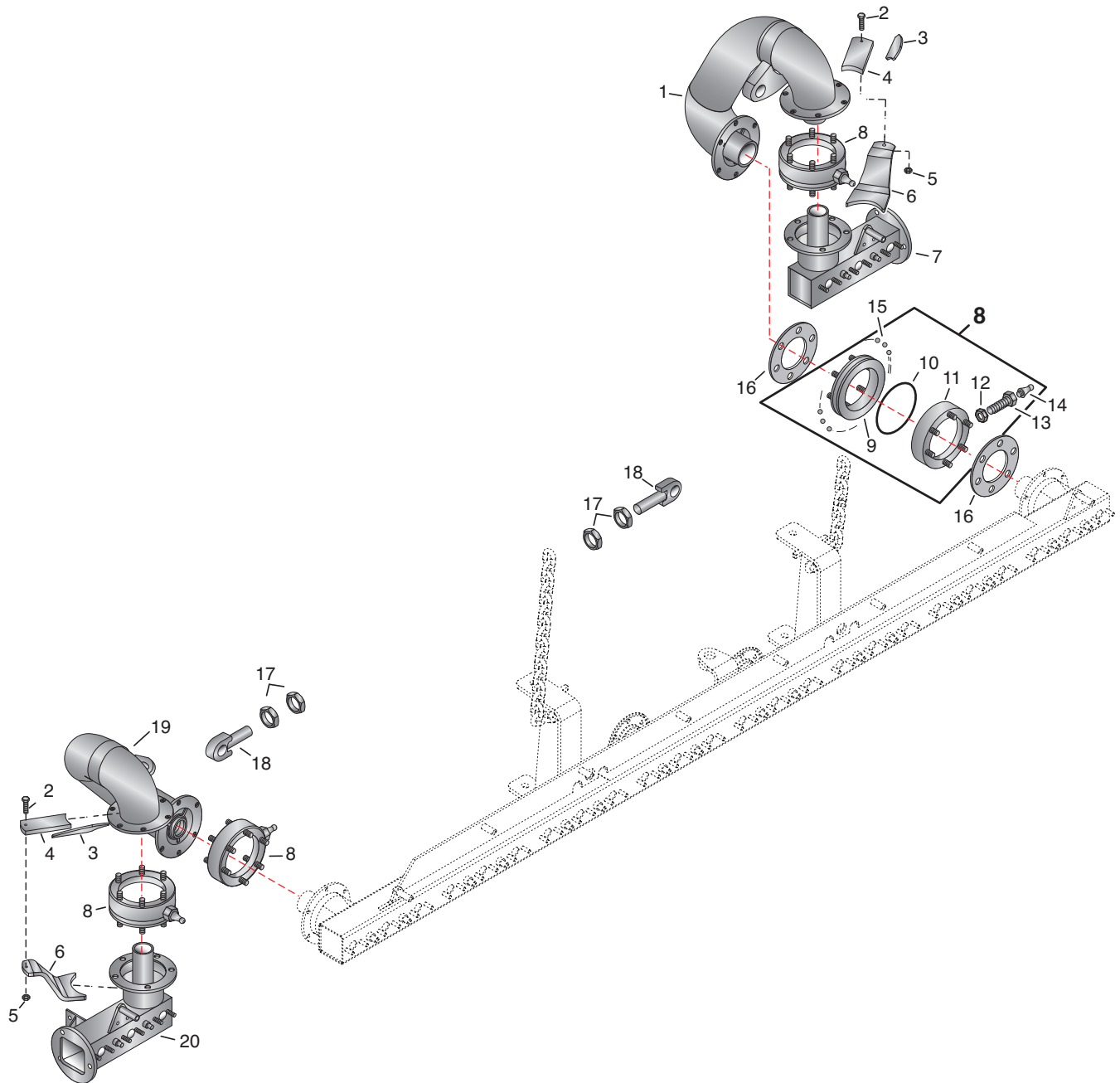
SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
11	6100280	10	Bolt-Eye, 0.31" x 2.5", PH	23	3361128	2	Bar-Wing Up
12	0120388	20	Washer-Flat, SAE STD, 0.375"	24	3352624	2	End Cap Asm-Spraybar
13	0121852	20	Screw-Hex, 0.375"UNC x 0.5", Gr2, PD	25	3352592	2	Flange Gasket-Spraybar
14	0133046	20	Screw-Machine, RDSL, 0.25" x 0.875", PD	26	6604599	12	Tee-Arbk, 04MT-02MP-04MT
15	9413946	20	Nut-Hex, Lock, 0.25"NC, PD	27	6604600	8	Elbow-Arbk, 90, 02MP-04-MT
16	9411638	10	Nut-Hex, Lock, 0.313"NC, PD	28	2650883	1	Tube Weldment-8.0' Center
17	3352743	30	Flip Valve Asm	29	3350785	AR	Pin Asm-Yoke, Relieving Sect
18	6602895	3	O-Ring, 1.12"OD, 0.070"	30		AR	Nozzle - See Spray Bar Nozzle Chart on Page 21 for Part No.
19	2650885	1	Buss Bar Asm, Left End				AR = As Required
20	3383905	2	Plate-Electronic Tilt Switch				
21	6755018	2	Switch-Tilt, 25 Degree Break				
22	3361127	2	Bar-Wing Up (Long)				

Wing Spray Bar

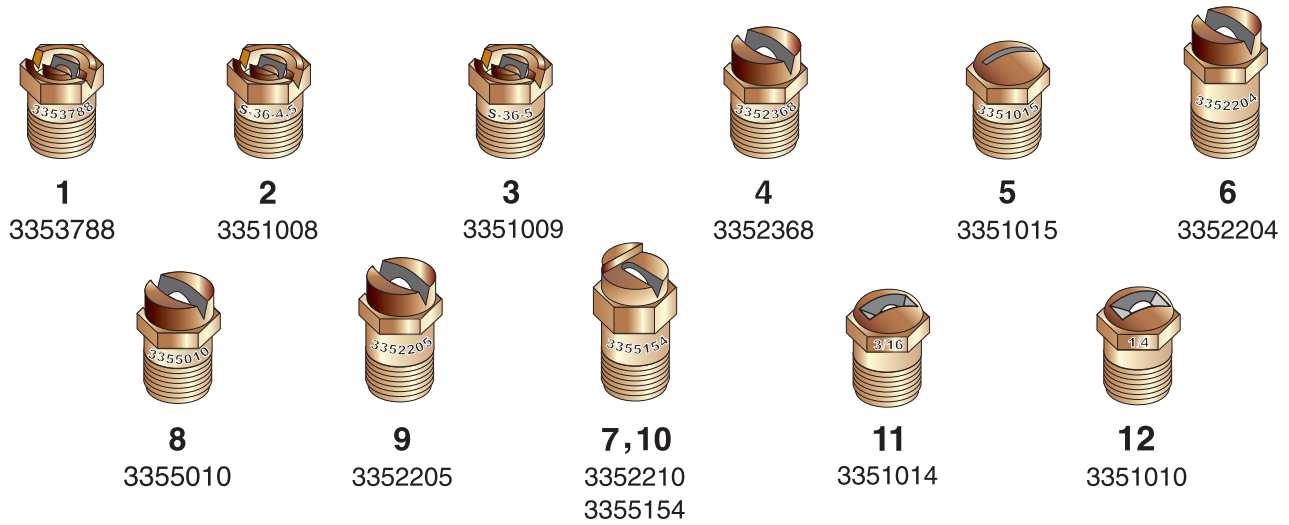
2650882

SPRAY SYSTEM



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3353124	1	Hinge Asm-RH, Mod Bar	11	3352607	1	Plate Asm, Inlet, 3.5 Swivel
2	0121913	2	Capscrew-Gr2, 0.25"UNC x 1.25"	12	0272123	1	Nut-Jam, 0.44"NF, PD
3	3352756	2	Gusset-Breakaway Arm, Spraybar	13	2740371	1	Grease Fitting
4	3352685	2	Bracket-Relieving Device, Spraybar	14	9411027	1	Grease Zerk
5	9413946	2	Nut-Hex, Lock, 0.25"NC, PD	15	6000290	47	0.38" Steel Balls
6	3352260	2	Brace-Relieving Device, Spraybar	16	33523615	8	Gasket-Spraybar Swivel
7	3353134	1	Stub Wing Asm-1.0', RH	17	0426899	4	Nut-Hex, Jam, 1.00NC, PD
8	7230219	4	Swivel Asm-Hinge Section, Mod Bar (Includes Ref 9-15)	18	3353260	2	Rod End Asm-Cylinder Mount
9	3352605	1	Plate Asm Outlet, 3.5 Swivel	19	3353123	1	Hinge Asm-LH, Mod Bar
10	6602669	1	O Ring, 5.5" OD x 0.25"	20	3353136	1	Stub Wing Asm-1.0', LH

Spray Bar Nozzle Chart

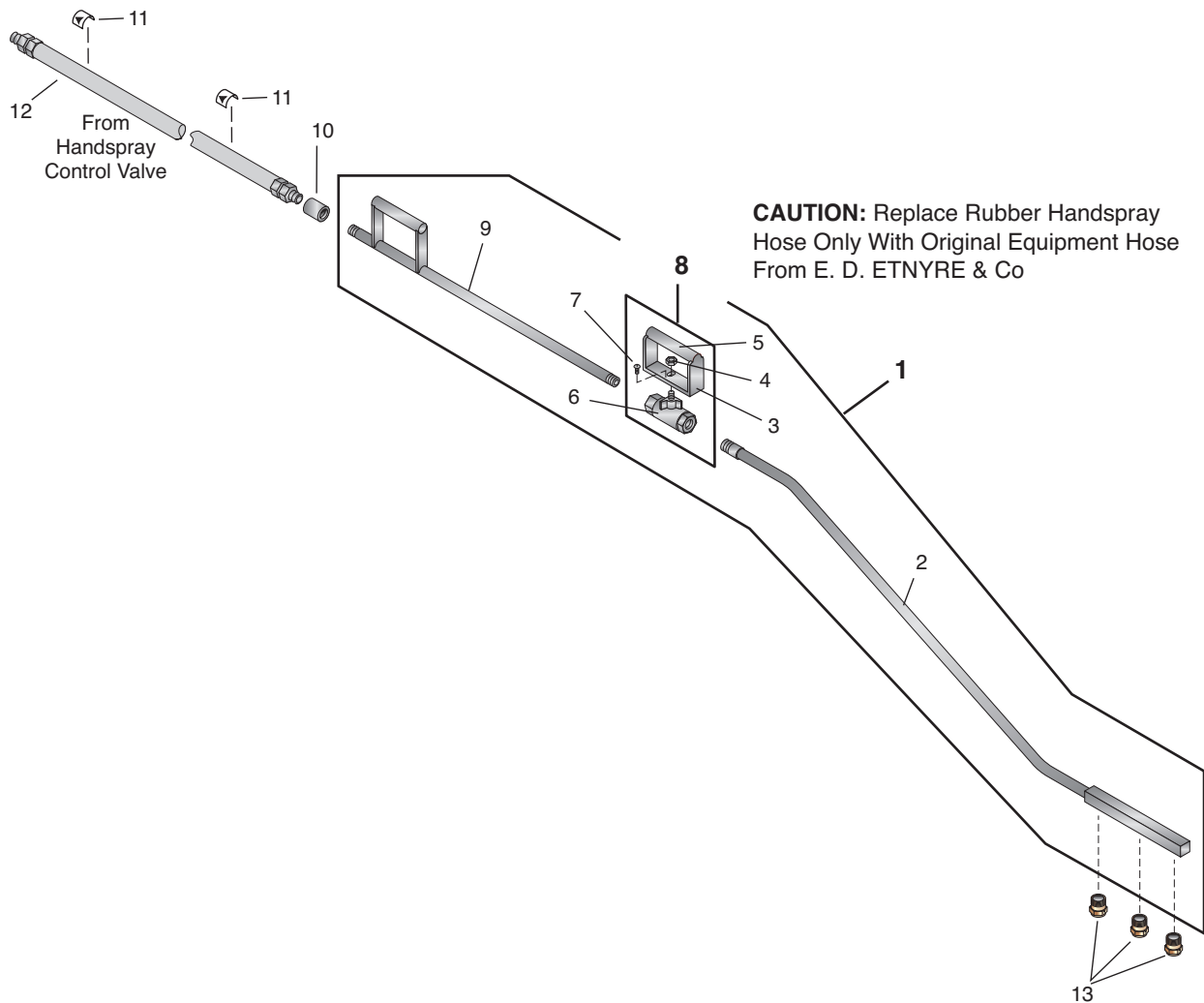


Ref.	Part No.	Description	Application Gallons Per Square Yard	Application (Metric) Liters Per Square Meter	US Flow Gallons Per Minute Per Foot
1	3353788	V Slot Tack Nozzle 1/8" Rifle Bored	.05 – .20	.23 – 0.91	3.0 – 4.5
	3351013*	V Slot Tack Nozzle 1/16" Coin Slot	.05 – .20	.23 – 0.91	3.0 – 4.5
	3354904	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

Handspray

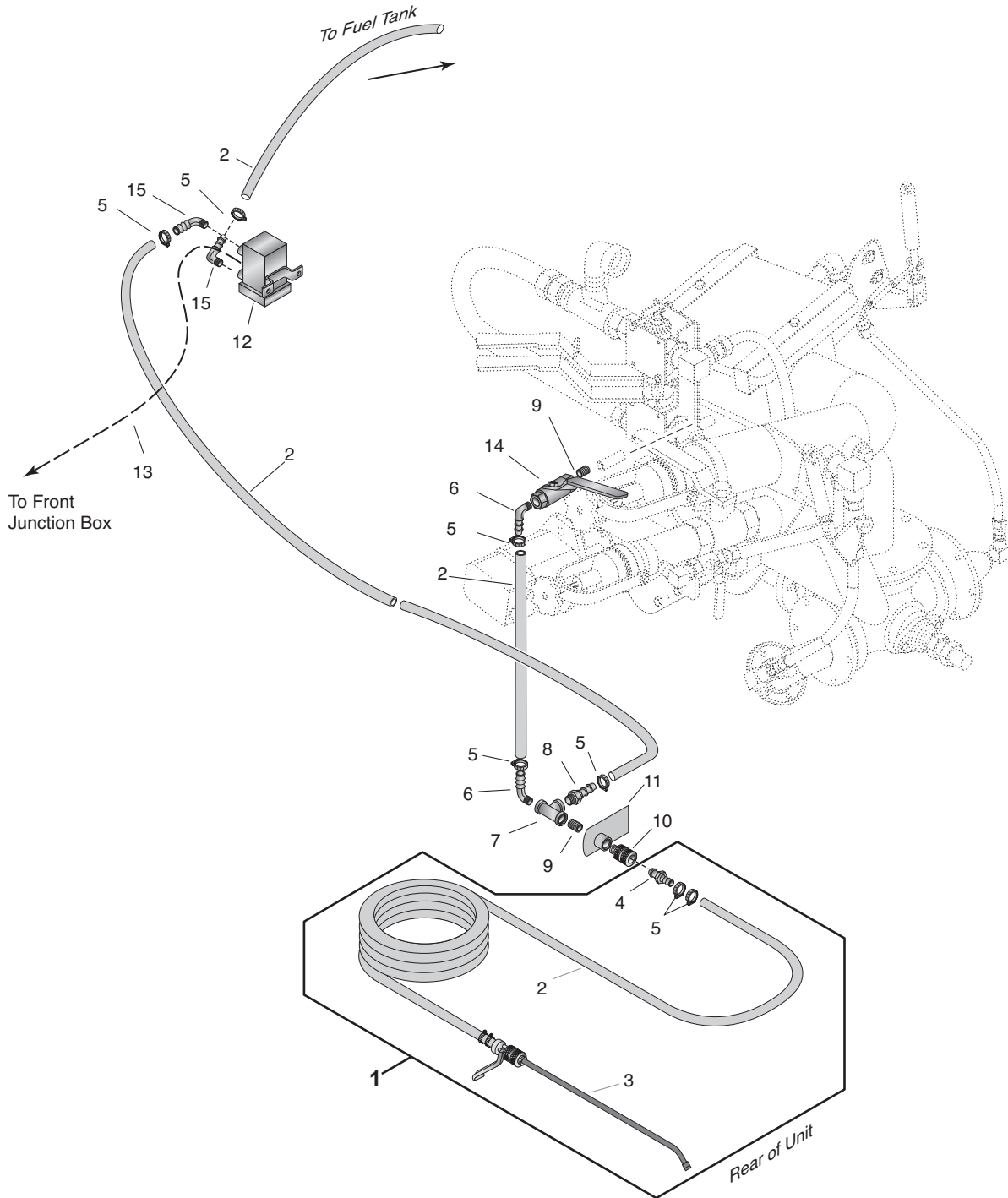


CAUTION: Replace Rubber Handspray Hose Only With Original Equipment Hose From E. D. ETNYRE & Co

SPRAY SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3380785	1	Gun Assembly-Handspray, Phase II (Includes subassembly 8, and Ref #'s 2, 9)				
2	3380788	1	Tube Asm-Offset, Handspray Gun				
3	3380791	1	Bracket-HS Valve Handle				
4	6100441	1	Nut-Hex, Lock, Jam, 0.44NF, PD				
5	3380052	1	Handle-Handspray Hdl & Vlv				
6	6602237	1	Valve-Ball, 0.750 Bronze				
7	0436732	1	Screw-Mach, PNSL, 10NC x 0.50				
8	3380784	1	Valve Asm-Hand Spray Gun (Includes Ref #'s 3 - 7)				
9	3380787	1	Tube Asm-Handspray Gun				
10	0111661	1	Coupling-Pipe, 0.75, Plain				
11	3390591	2	Tag-Caution, Handspray Hose				
12	6602720	1	Hose-Handspray, 0.75 In x 25 Ft				
13	6602020	3	Nozzle-V Type, Nominal 3.5 GPM				

Power Washdown And Self Flushing

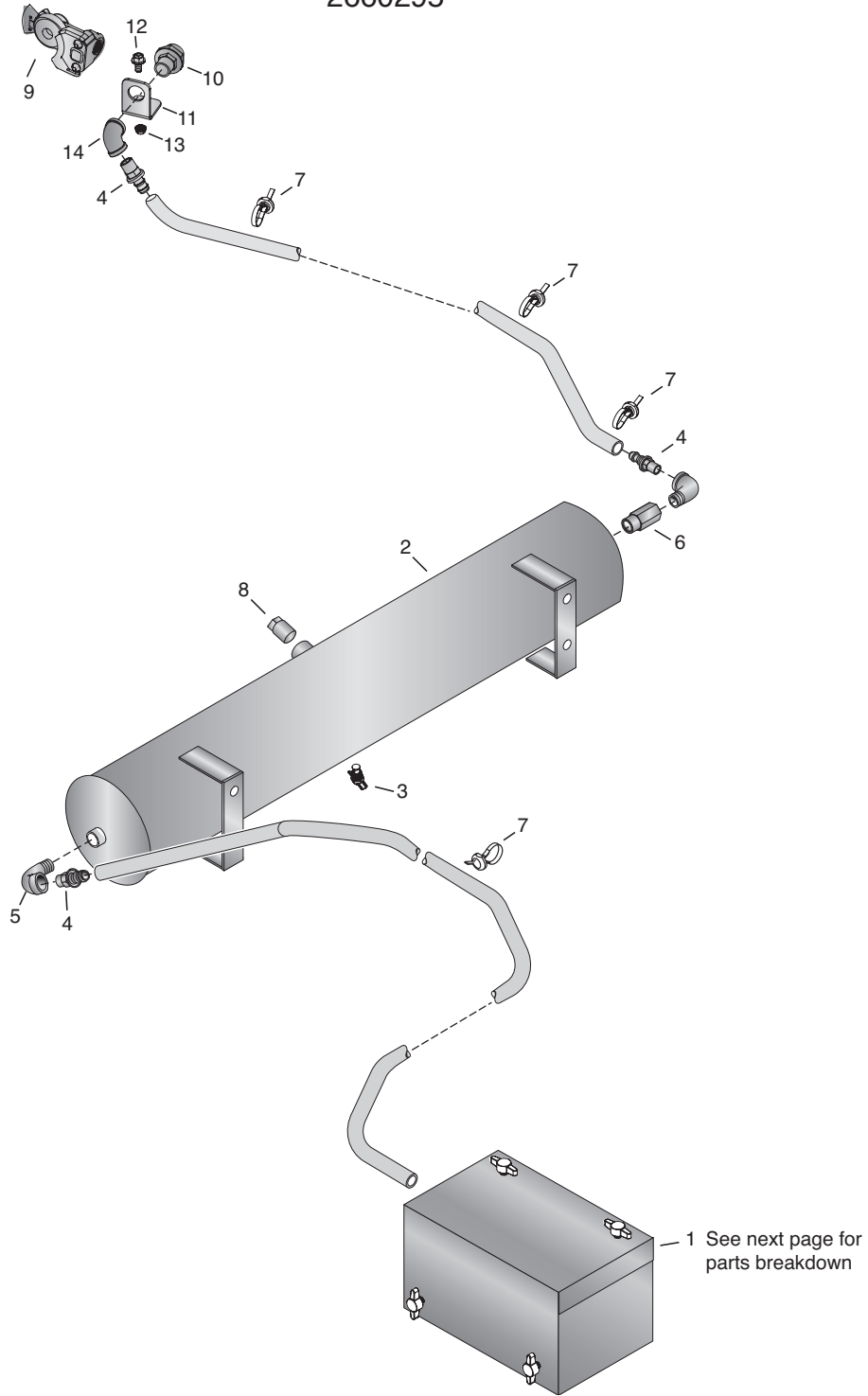


SELF-FLUSHING

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3361014	1	Washdown-26' Hose & Wand Asm (Includes Ref 2-5)	9	0105405	3	Nipple-Sch 40, 0.25 x 0.87CL, PN
2	6600324	AR	Hose-Hyd, 0.38, 300 WP/FT	10	6601821	1	Coupling-Quick Connect, 1/4NPT
3	4480132	1	Wand-Sprayer	11	2690286	2	Bracket Asm-Fuel Line
4	6601820	1	Nipple-Quick Connect, 1/4 Hose	12	7310028	1	Fuel Pump-Elec., 12VLT, 250646BS
5	6001005	6	Clamp-Hose, Screw Type M5	13	6700898	AR	Cable-2-18 Flusher Control /FT
6	6600240	2	Elbow Hose Barb-04 x 04MP90, LP	14	6500366	1	Valve-Ball, 0.25"
7	0105417	2	Tee-Pipe, 0.25NPT, PN	15	6602399	2	Elbow Hose Barb-04 x 02MP90, LP
8	6445028	2	Hose End-04 x 04MP, ST, LP				AR = As Required

Specify Unit Serial No., Part No., & Part Description

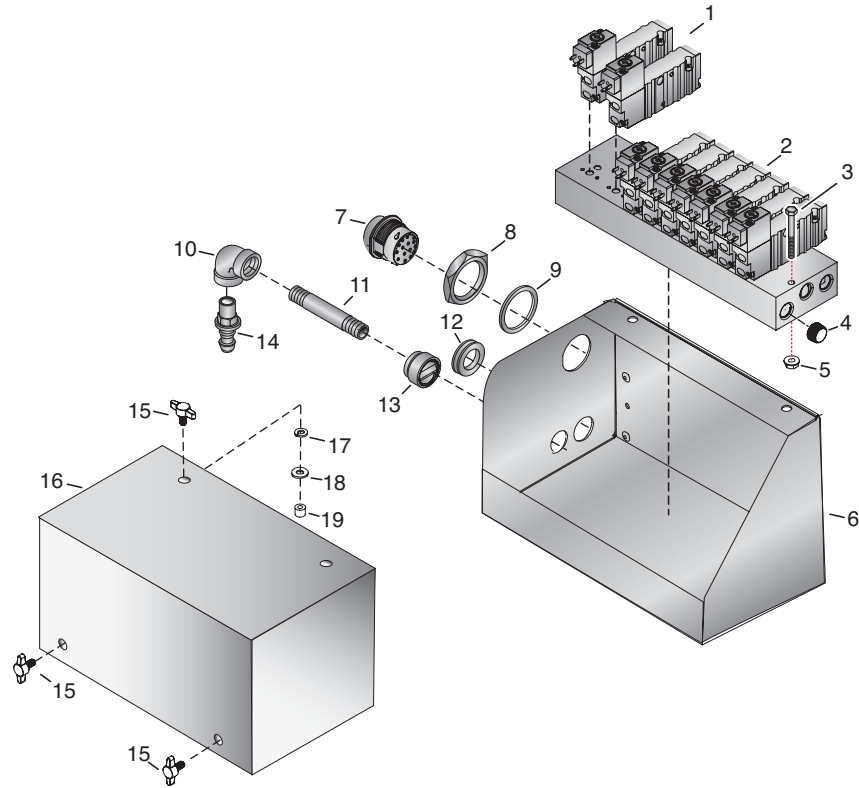
Air Supply
2660295



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2681224	1	Housing-Air Valves, MU	8	0219189	1	Plug-Pipe, SqHd, 0.25"NPT, PN
2	6603024	1	Reservoir-Air, 9.69" x 22.5"	9	6601254	1	Coupling-Hose, Service w/ Filter
3	6600162	1	Cock-Drain, 0.25", External Seat	10	6601255	1	Stud-Clamping, 0.50"MPT-0.38"FPT
4	6602128	3	Hose End-08X06MP, ST, LPSP	11	2681229	1	Bracket-Air Coupling
5	0111316	2	Elbow-Pipe, 90, ST, 0.38"NPT, PD	12	6100881-03	1	Bolt-Wiz, 0.50"UNC x 1.0", Gr5, PD
6	6601298	1	Valve-Check, Single, 0.38"NPT, ST	13	6100883	1	Nut-Flange, 1/2-13, Gr2, PD, Serrated
7	6001998	14	Tie-Cable, Reuse, 100LB, Bk	14	0119097	1	Elbow-Pipe, 90, 0.38"NPT, PD

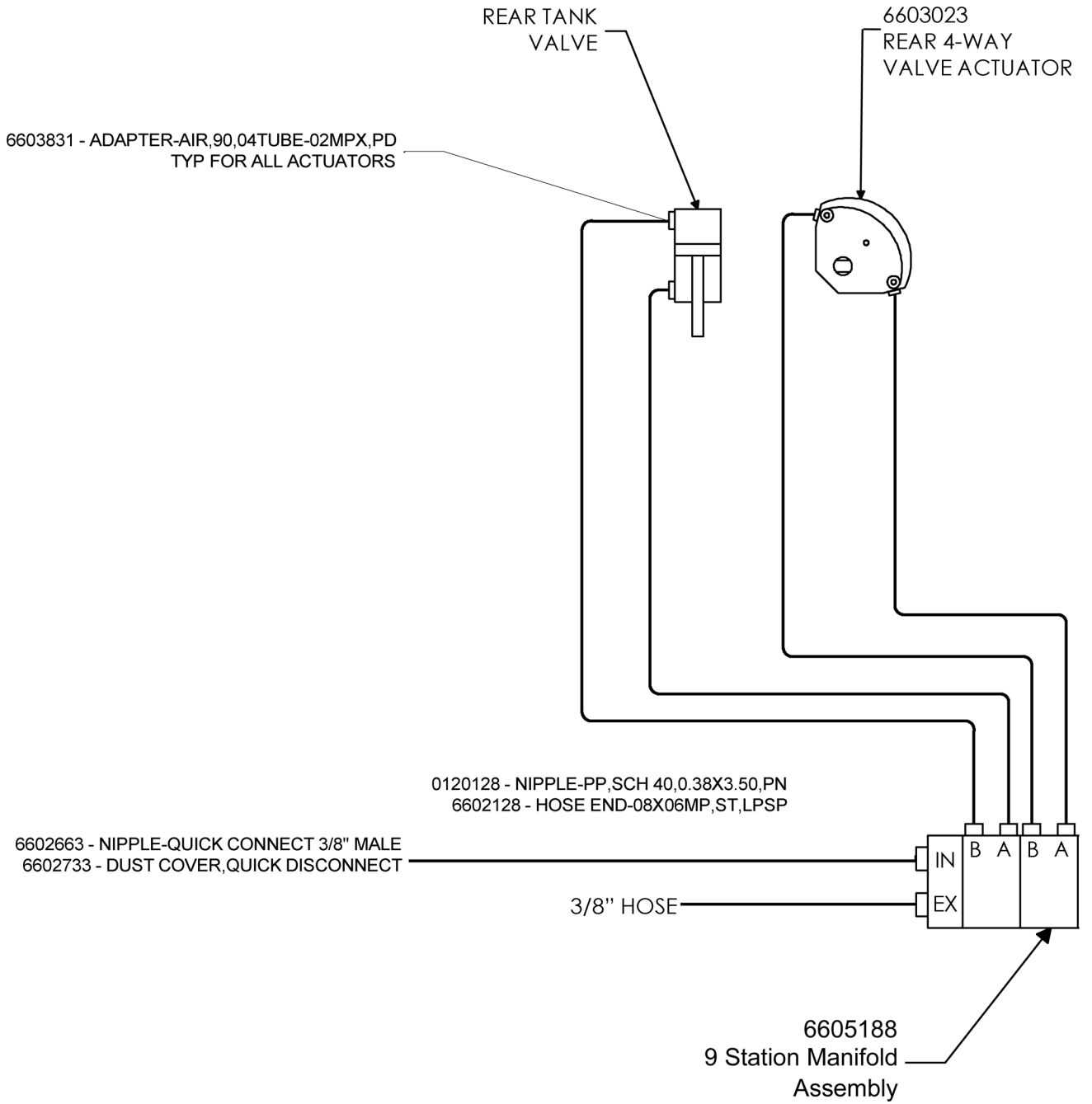
Air Valves Housing

2681224



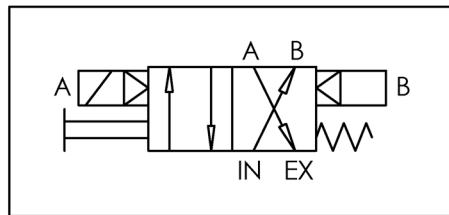
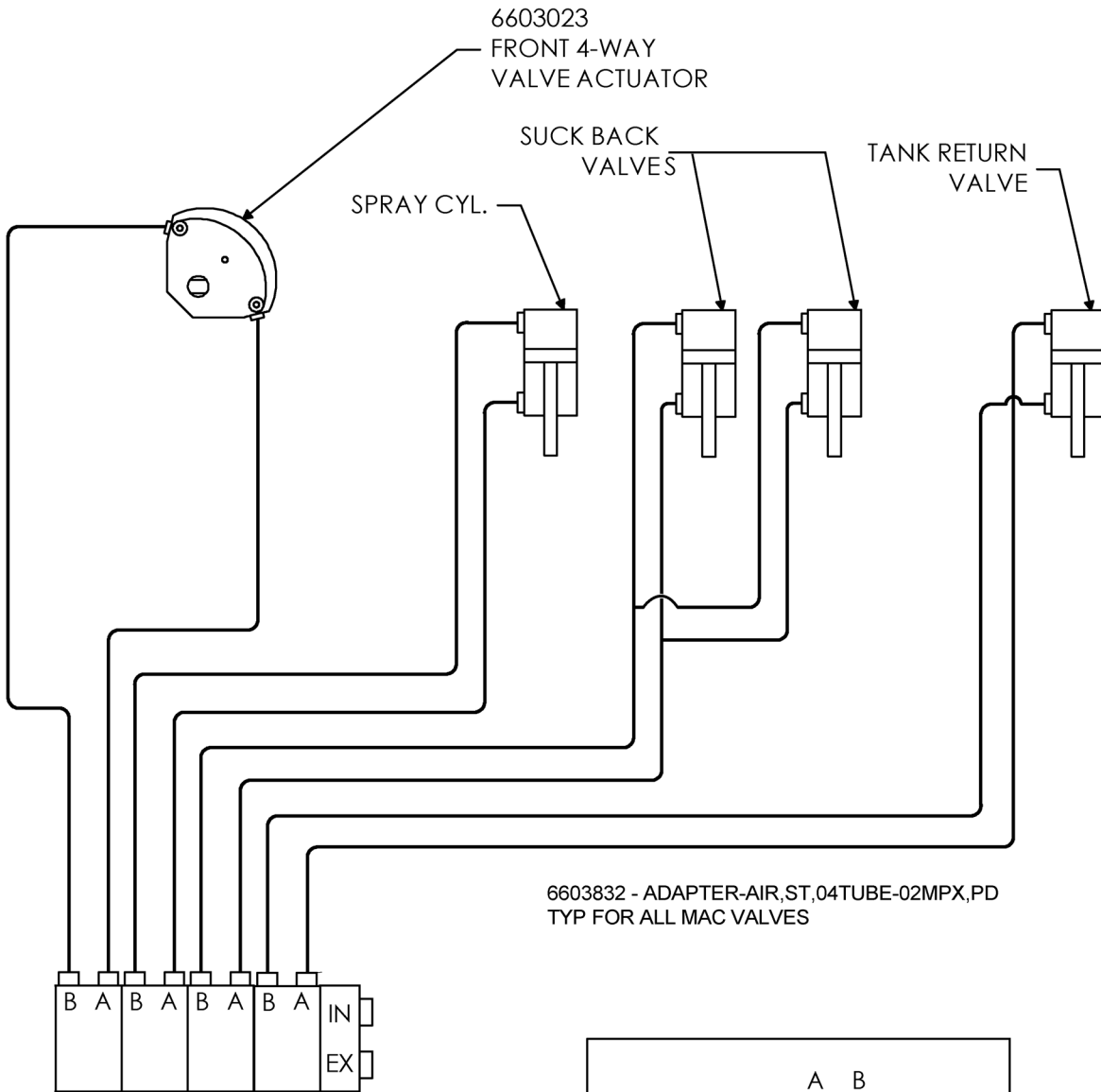
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6605224	2	Valve-Slice, 400 Series, w/ Diode				
2	6605188	1	Manifold Asm-VWSB Acc, 9 Station				
3	0138207	2	Capscrew-Hex Socket, 1/4-20 x 2.25"				
4	0444867	1	Plug-Auto, Hex Socket, 0.38"NPTF, PD				
5	6100713	2	Nut-Flanged, 1/4-20NC, Serrated				
6	2681225	1	Base Asm-Air Valves w/ Output Driver				
7	6704502	1	Connector-Receptacle, 14 Pin				
8	6704503	1	Nut-HDP20, 18 Shell				
9	6704504	1	Washer-14 Pin Socket				
10	0119097	1	Elbow-Pipe, 90, 0.38"NPT, PN				
11	6201244	1	Nipple-PP, Sch40, 0.38" x 3.5", PD				
12	6703407	1	Grommet-Rubber, 11/16" Hole				
13	6604636	1	Vent-Breather, Snap-In, 1.0"				
14	6602128	1	Hose End-06Barb x 08MP, ST, LPSP				
15	6002423	4	Screw-Thumb, 0.25"NC, 0.5" Long				
16	2681228	1	Cover-Air Valve Box				
17	0120380	4	Washer-Lock, 0.25", Spring, PD				
18	0120386	4	Washer-Flat, 0.25A (0.31" x 0.73"), PD				
19	6100381	4	Nutsert				

Air Controls Schematic



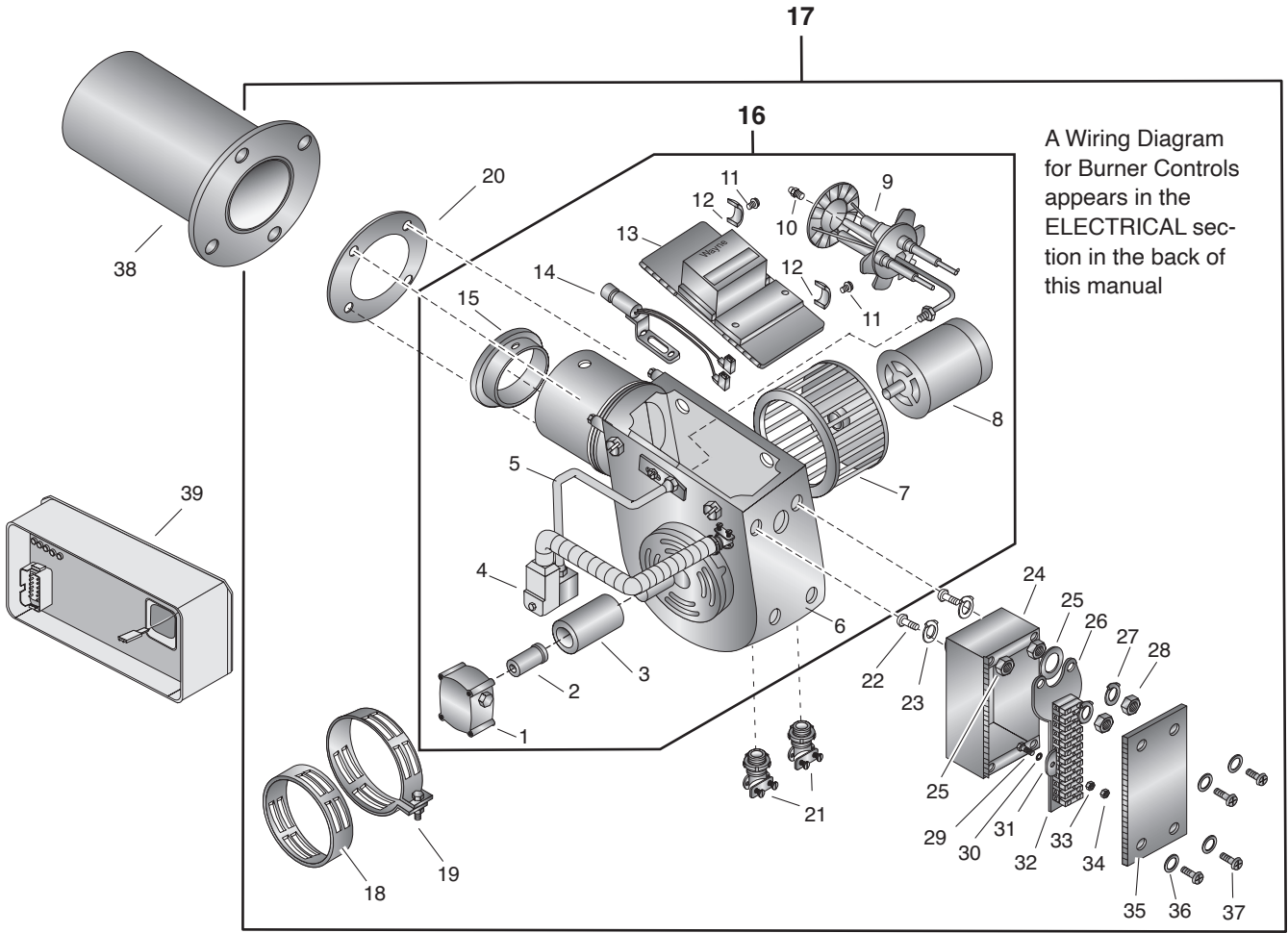
AIR SYSTEM

Air Controls Schematic



6605224

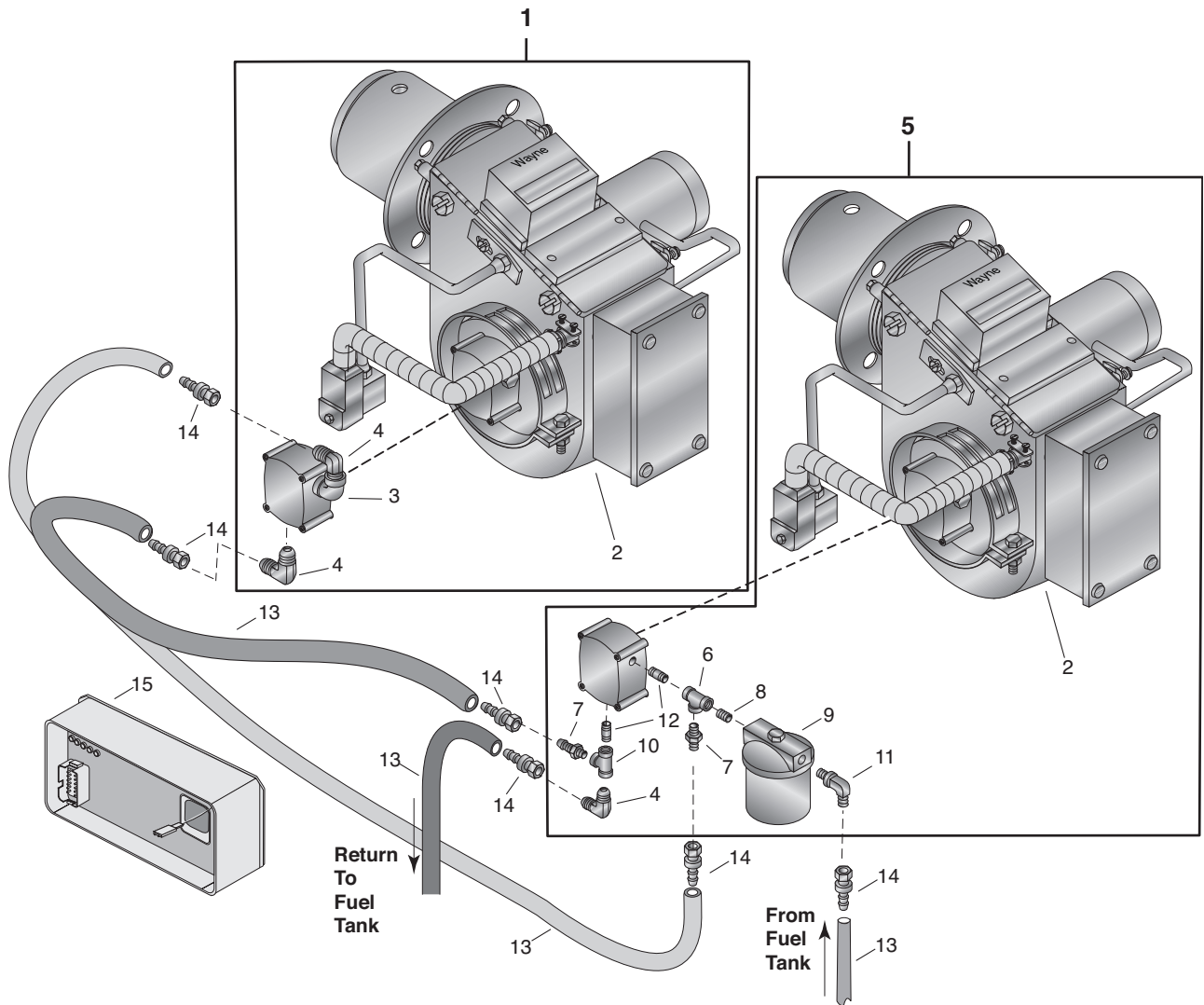
Fuel Oil Burner Installation



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	7050878	1	Fuel Pump-Wayne	21	6700015	2	Connector-Romex 0.375 in.
2	7050879	1	Drive Coupling-Wayne	22	0180022	2	Capscrew-GR5, 0.25 in UNC x 1 in. Lg
3	7050886	1	Blower Bushing-Wayne	23	0125753	2	Washer-Lock, 0.25 in., Tooth, Ext, PD
4	7050882	1	12V Fuel Valve-Wayne	24	3370648	1	Box-Electrical, Wayne
5	7050887	1	Fuel Line-Wayne	25	Q476100	1	Grommet-Black Rubber, 0.75 in I.D.
6	7050876	1	Housing Assembly-Wayne	26	3370649	1	Mounting Plate-Terminal Strip
7	7050880	1	Wayne Blower-Wayne	27	0120380	2	Washer-Lock, Spring, 0.25 in.
8	7050877	1	12V Motor-Wayne	28	0120375	2	Nut-Hex, 0.25 in. NC
9	7050883	1	Gun Assembly-Wayne	29	0436752	1	Screw-Mach., Pnsl, 10NF x 0.75 in. PD
10	7050884	1	Nozzle 2.5 GPH-Wayne	30	0138479	1	Lock- #10, Tooth, EXT, PD
11	7050874	2	Lid Screw-Wayne	31	3370555	1	Bar-Jumper, 4 Pole for 6703828
12	7050873	2	Lid Clip-Wayne	32	6703828	1	Terminal Strip-12Pole, 10/14 AWG
13	7050881	1	Ignitor-Wayne	33	0120614	1	Nut-Hex, Mach., 10NF, PD
14	7050885	1	Cad Eye-Wayne	34	0271169	1	Nut-Hex, LK, Wsh Ins, 10-32, PD
15	7050888	1	Air Cone-Wayne	35	3370650	1	Lid-Electrical Box, Wayne
16	6500449	1	Burner-Modified, Wayne (Includes Ref #'s 1 - 15)	36	6001972	4	Washer-Csk, #8, SS, 0.53" O.D. x 0.13") TK
17	3331520	1	Burner Assembly (Includes Sub Asm 16, and Ref #'s 18 - 37)	37	6002119	4	Screw-Mach., Fltchd, 8NC x 0.50", SS
18	6500465	1	Band-Inner E/FH Air	38	3331519	1	Optional SS Flue Liner
19	6500466	1	Band-Outer 8 Hole E/F Air	39	6500456	1	Burner Control Asm
20	3331521	1	Plate-Wayne Burner Mount				

Fuel Oil Burner Installation - Dual Burners

BURNER SYSTEM

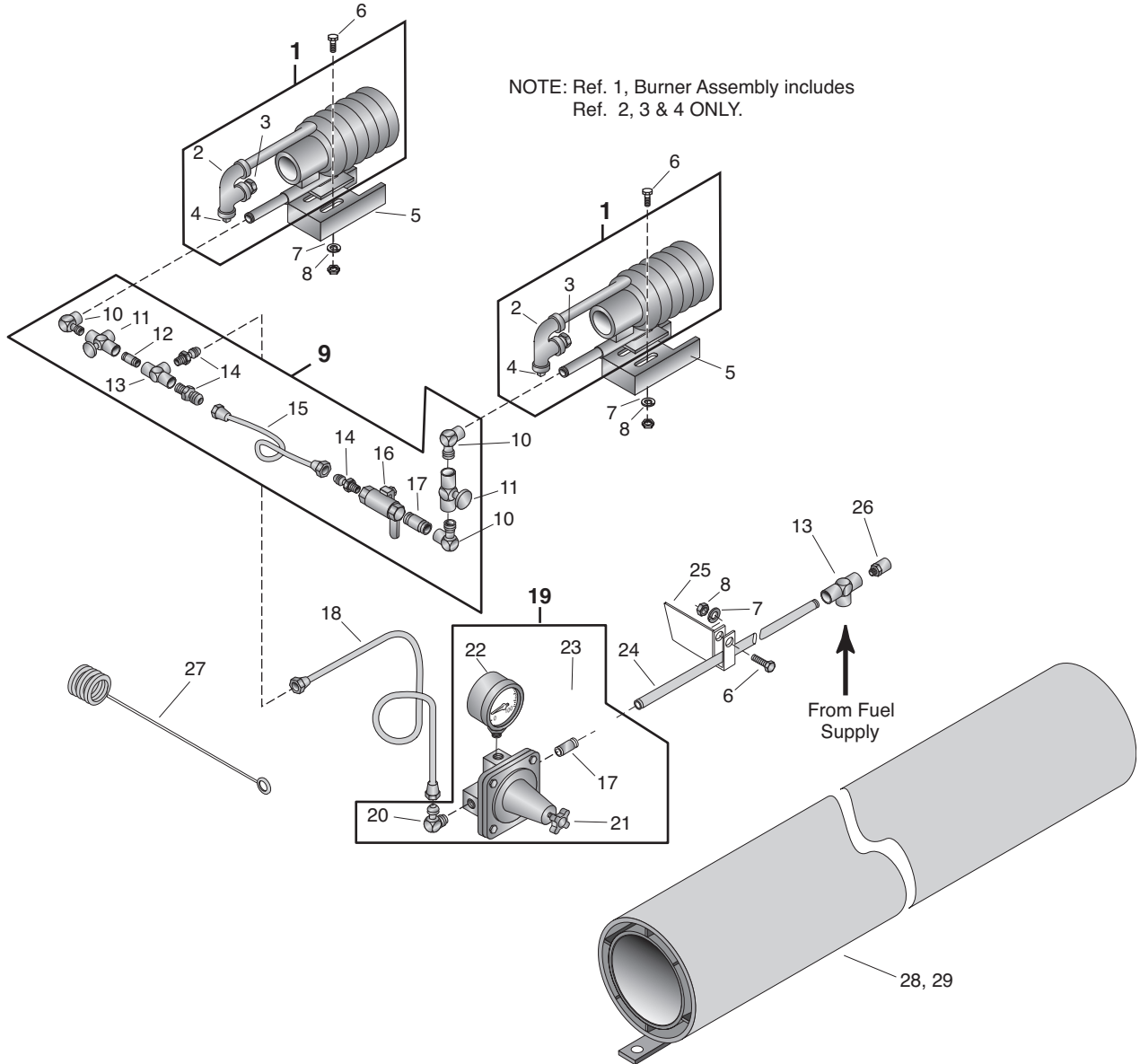


REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331597	1	Mod. Wayne Burner Asm-Lower Burner (Includes Ref #'s 2-4)	10	0105417	1	Pipe-Tee, 0.25 in. NPT, PN
2	3331520	2	Burner Assembly	11	6200179	1	Elbow-Flared Tube, Liget 10F33
3	0105423	1	Elbow-Pipe, 90, ST, 0.25NPT, PN	12	6200417	2	Nipple-Sch 40, 0.25 in. x 2.0 in., PN
4	0118755	3	Elbow-Auto, 90, 04MP-06MS	13	6600324	AR	Hose-0.38 per Foot
5	3331598	1	Mod. Wayne Burner Asm-Upper Burner (Includes Ref #'s 2, 4, 6-12)	14	6600306	6	Hose End-06 x 06 FSX, ST, LPSP
6	0218239	1	Pipe-Tee, 0.38 in. x 0.25 in. NPT, PN	15	6500456	1	Burner Control Asm
7	0118750	2	Adapter-Auto, ST, 04MP-06MS				AR= As Required
8	6200443	1	Nipple-Sch 80, 0.38 x CL, PN				
9	6500342	1	Filter Asm				
	7730001	1	Filter Element-Oil, Replacement				

Specify Unit Serial No., Part No., & Part Description

LPG Burners

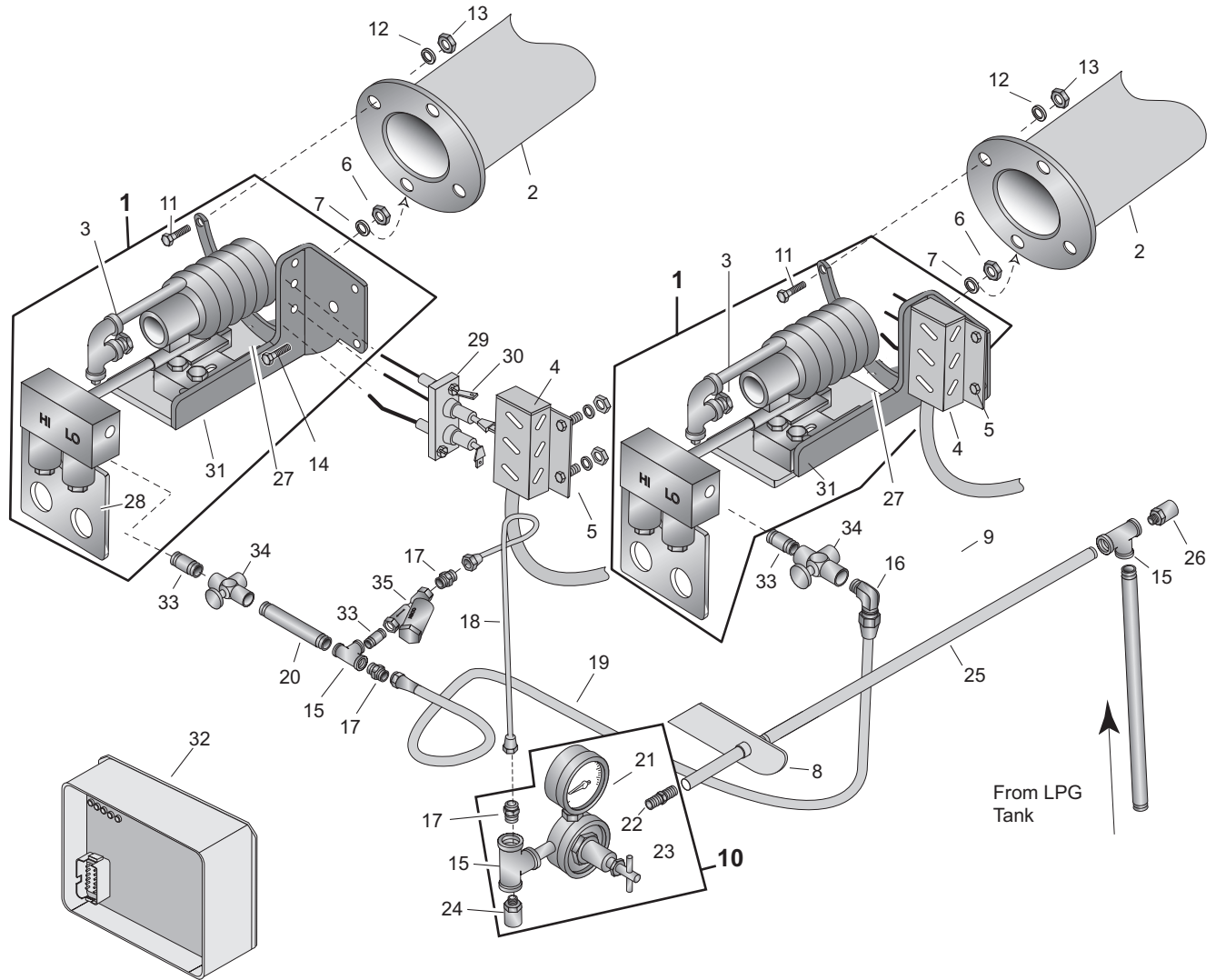
NOTE: Ref. 1, Burner Assembly includes Ref. 2, 3 & 4 ONLY.



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331073	2	Burner Asm (Includes Ref #'s 2-4)	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 (Includes Ref #'s 17, 20-23)
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 (Includes Ref #'s 10-17)	24	3331412	1	Pipe-0.25, Single Axle
10	0454109	3	Elbow-Auto, 04FP-04MP		3331413	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	28	3331200	AR	Liner Asm-24 In., S.S., 8 In Flue
15	3331108	1	Tube Asm	29	3331196	AR	Liner Asm-48 In., S.S., 8 In Flue

AR =- As Required

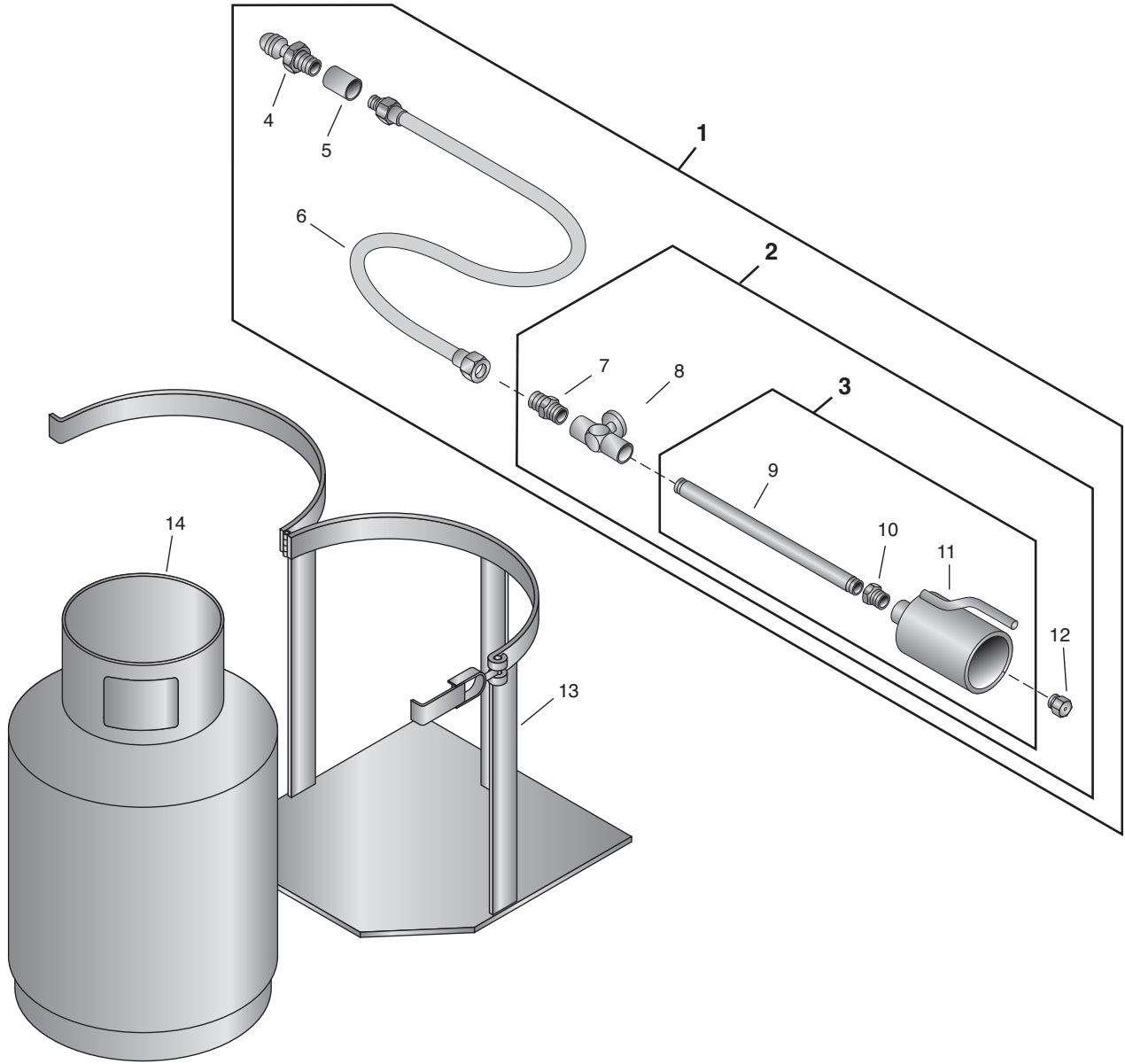
LPG Burners With Outfire



BURNER SYSTEM

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3331661	2	Burner Asm-LPG ETNYRE (includes Ref #'s 3, 28, 31, but NOT 11, 14, 16, 27)	18	3331586	1	Tube Asm-Bottle to Burner 36 in.
2	3331519	2	Flue Liner Asm-Fuel Oil-Optional	19	3331588	1	Tube Asm-LP, Upper Burner
3	3331086	2	Nozzle-LPG Burner, Etnyre	20	6201180	1	Nipple-Pipe, SCH80, 0.25 x 3 in., PN
4	3331665	2	Cover-Electrode,High Voltage	21	6600196	1	Gauge-Press, 1 in., 0-100 PSIG
5	0180016	6	Capscrew-GR5, 0.250 UNC x 0.50 LG	22	7720018	1	Regulator-Pressure
6	0120375	8	Nut-Hex, 0.250 NC	23	6603998	2	Adapter-Hyd., ST, 04MP-04MP
7	0120380	8	Washer-Lock, Spring, 0.25 in.	24	6500461	1	Valve-Relief
8	3331875	1	Bracket Asm-Fuel Line	25	6303435	AR	Pipe-Sch 80, 0.25 Generic
9	3331593	2	Wire Armor-Hose, 0.50 x 19 In.	26	7720014	1	Valve-Relief, 400 PSI LPG Hydro
10	3331584	1	Regulator Asm-LPG, WITH SAFETY (Includes Ref #'s 15, 17, 21-24)	27	6000059	2	P-Clip (Not visible in illustration above)
11	0180122	6	Capscrew-GR5, 0.375 UNC x 1.00 LG	28	3331590	2	LP Manifold-Modified Coils
12	0120382	6	Washer-Lock, Spring, 0.375 in.	29	3331662	2	Electrode-Modified
13	0120377	6	Nut-Hex, 0.375 NC	30	6703973	2	Tab-Male, 0.25" for #10 Stud
14	0180024	2	Capscrew-GR5, 0.250 UNC x 1.25 LG	31	3331663	2	Bracket-Burner Assembly
15	0454121	3	Tee-Auto, 04FP-04FP-0FP, PD	32	6500457	1	Burner Control Asm
16	0118755	1	Elbow-Auto, 90, 04MP-06MS	33	6200891	3	Nipple-0.25" x 0.87", CL
17	0118750	3	Adapter-Auto, ST, 04MP-06MS	34	6500064	2	Needle Valve, 0.25"NPTF, w/Pilot
				35	6500233	1	Strainer-0.25"NPT, Asco 8600A2
							AR - As Required

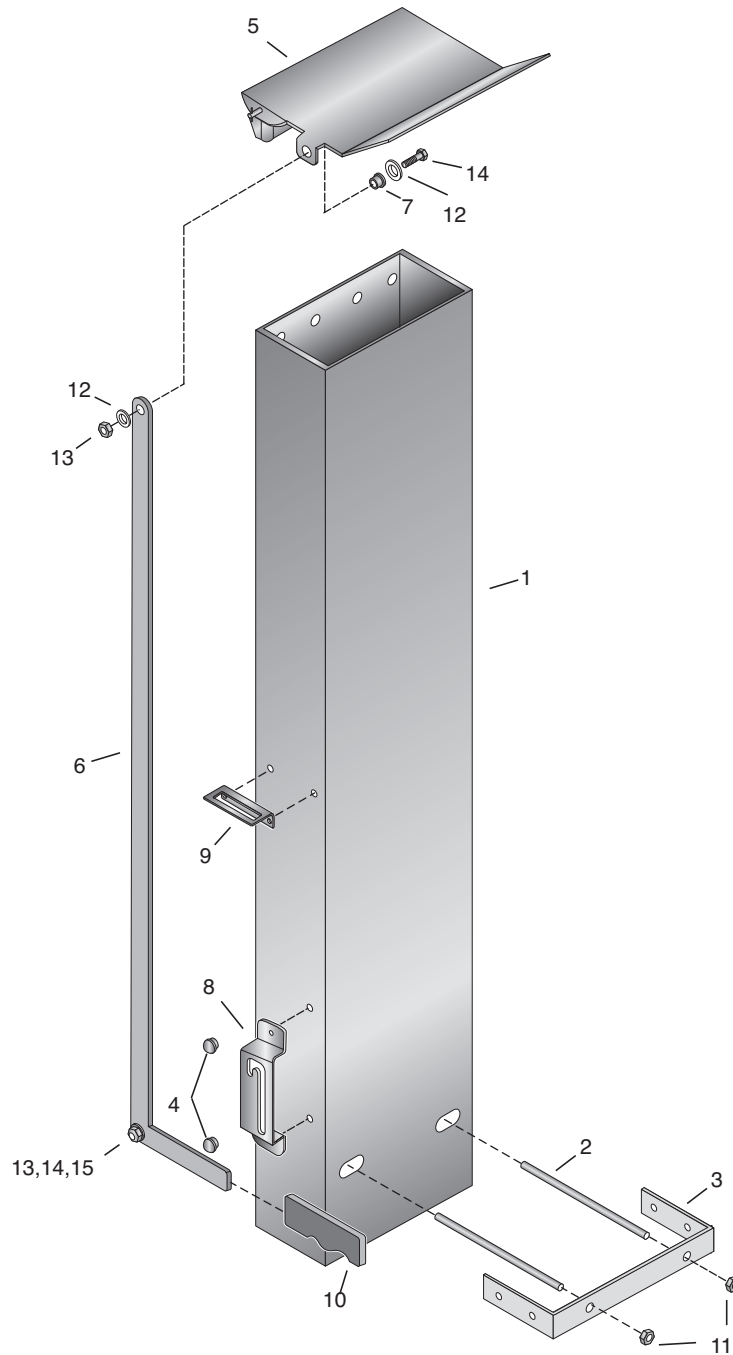
Portable Burner - Vapor Propane



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	7720046	1	Burner Asm-Propane Vapor (Includes Assemblies 2 & 3, & Ref #'s 4-6)	9	6200251	1	Pipe-Sch 40, 0.25 x 3.00, TBE,PN
2	3330296	1	Burner Asm-Portable, LPG Vapor (Includes Assembly 3, & Ref #'s 7,8, 12)	10	0119931	1	Bushing-Pipe, 0.38 x 0.25NPT,PN
3	3330297	1	Burner Asm-Portable, LPG Vapor (Includes Ref #'s 9-11)	11	3330298	1	Shroud Asm-Portable Burner
4	6600043	1	Connector-Tank LPG	12	3330001	1	Plug-Vaporizing
5	0144068	1	Coupling-Pipe, 0.25NPT,PD	13	S389301	1	Mounting Bracket with Quick Release
6	6601692	1	Hose-Burner, Port, Propane, 1/4	14	M395803	1	Cylinder-Propane, Port, 20 lb.
7	4470350	1	Nipple-Hex, 0.25 x 1.125				
8	6500064	1	Valve-Needle, 0.25NPTF, With Pilot				

Exhaust Stack Assemblies

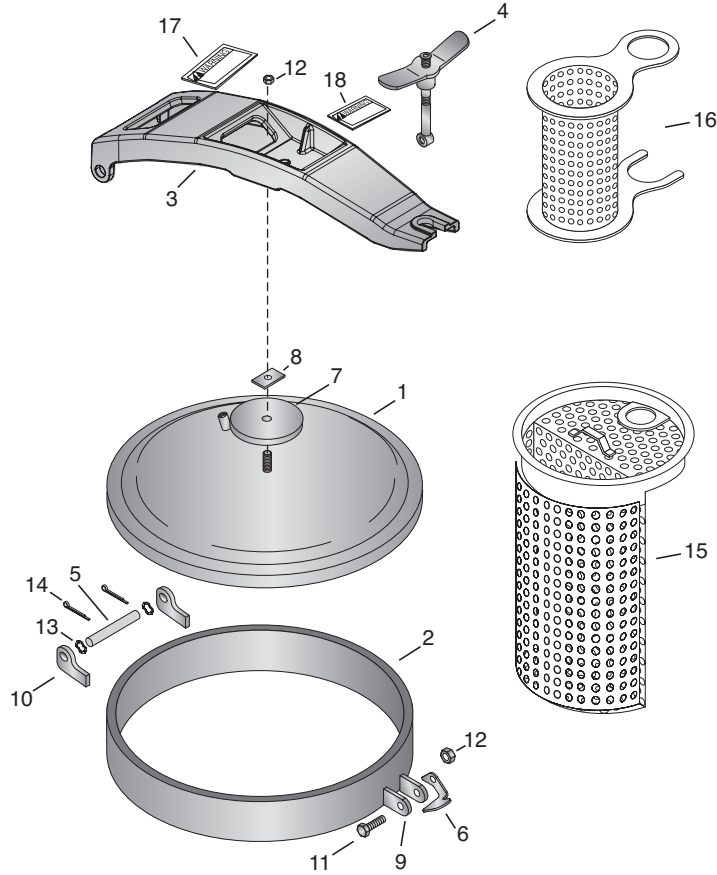
2630741



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2630742	1	Stack, Rivet, Flue, 41.0"	9	3332195	1	Angle-Stack Lever Support
2	3332039	2	Stud-Stack, B.O.	10	6309575	1	Grip Handle-Vinyl, Black
3	3332094	1	Brace-Flue to Stack	11	9411638	2	Nut-Hex, Lock, 0.31"NC, EA, PD
4	6001149	8	Rivet-Pop, Dome, 0.19" x .063-.125SS	12	0120386	2	Washer-Flat, 0.25A (0.31 x 0.73), PD
5	3332160	1	Lid Asm-Stack, SS	13	9413946	2	Nut-Hex, Lock, 0.25"NC, EA, PD
6	2630745	1	Plate-Lever Arm, SS, 41.0" Stack	14	0180018	2	Screw-Hex, 0.25"NC x 0.63", Gr5, PD
7	3332166	1	Spacer-Lever Stack Asm	15	0446363	2	Washer-Flat, 0.31A (0.38 x 0.88), PD
8	3332163	1	Bracket-Lever Lift Track				

BURNER SYSTEM

Manhole & Strainers

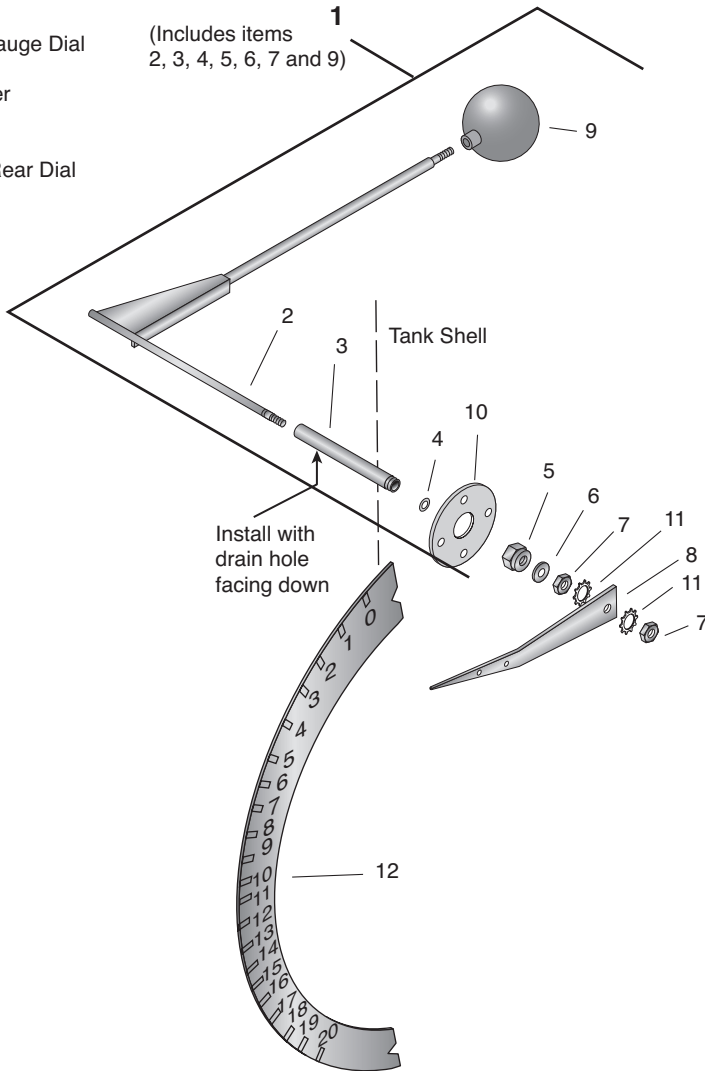


REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2700545	1	Cover Asm-20MH, Non-Rel, 600DG	15	2690170	1	20" Strainer
2	3301279	1	Collar-20"MHk 66.75 Rad Tank	16	3390695	1	6" Strainer
3	2700244	1	Strongback Asm-20 MH, Non-Rel	17	3390679	1	Plate-Warning, Manhole
4	2700243	1	Hold Down Asm-20 MH, Non-Rel	18	3390684	1	Plate-Caution, Hot Surface
5	2700233	1	Shaft-Hinge, MH, Non-Rel				
6	2700234	1	Prop-Cover, MH, Non-Rel				
7	2700241	1	Reinforcer-Cover, 20 MH, Non-Rel				
8	2700259	1	Bushing-Alignment, Cover, MH				
9	2700230	2	Lug-Eye Bolt, 20 MH, Non-Rel				
10	2700231	2	Lug-Hinge, Collar				
11	0180181	1	Screw-Hex, Lock, 0.50"NC, PD				
12	9411727	2	Nut-Hex, Lock, 0.50"NC, PD				
13	6100376	2	Washer-Wave, 0.75" x 1.06" x 0.105, CS				
14	0137204	2	Pin-Cotter, 0.12" x 1.5", PD				

Tank Gauge Assembly

NOTE: When ordering Tank Gauge Dial (Ref. 12) please include:

1. Unit Serial Number
2. Tank Oval Size
3. Tank Capacity
4. Specify Front or Rear Dial



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2660135	1	Tank Gauge-36x70 Oval				
	2660158	1	Tank Gauge-42x74 Oval				
2	2660134	1	Stem Asm-36x70 Oval				
	2660157	1	Stem Asm-42x74 Oval				
3	2660132	1	Sleeve Asm-36x70 Oval				
	2660160	1	Sleeve Asm-42x74 Oval				
4	6001199	1	O-Ring, 0.364 ID x 0.70 Width				
5	2660111	1	Cap-Stem Asm				
6	0120390	1	Washer-Flat, 0.50A, W, PD				
7	0120378	2	Nut-Hex, 0.50NC, PD				
8	2690160	1	Pointer-MU Dial, 42 x 74				
	2690173	1	Pointer-MU Dial, 36 x 70				
9	6600335	1	Float Ball				
10	3341199	1	Cover-Jacket, Drive				
11	0135629	2	Washer-Lock, 1/2, Ext Tooth				
12	*	1	Dial-Call With Serial Number				

TANK

Ladder Installation

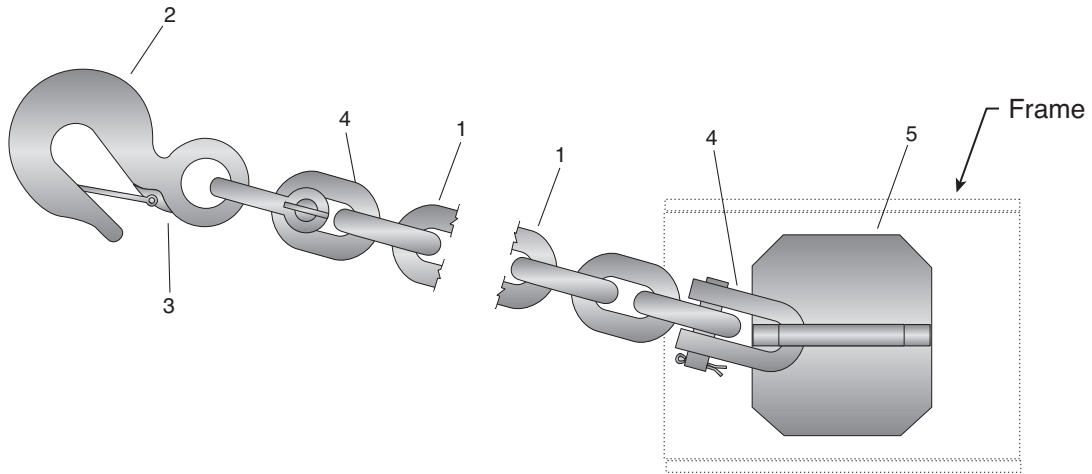
2681232



ACCESSORIES

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	2681207	1	Ladder Asm-36.0" x 70.0", Aluminum				
2	2681214	2	Plate-Ladder, Spacer, Aluminum				
3	2681252	2	Clamp, Ladder, Aluminum				
4	0180050	4	Screw-Hex, 0.25"NC x 2.75", Gr5, PD				
5	0120386-CR	4	Washer-Flat, 0.25A (0.31" x 0.73"), PCR				
6	9413946-CR	4	Nut-Hex, Lock, 0.25"NC, PCR				

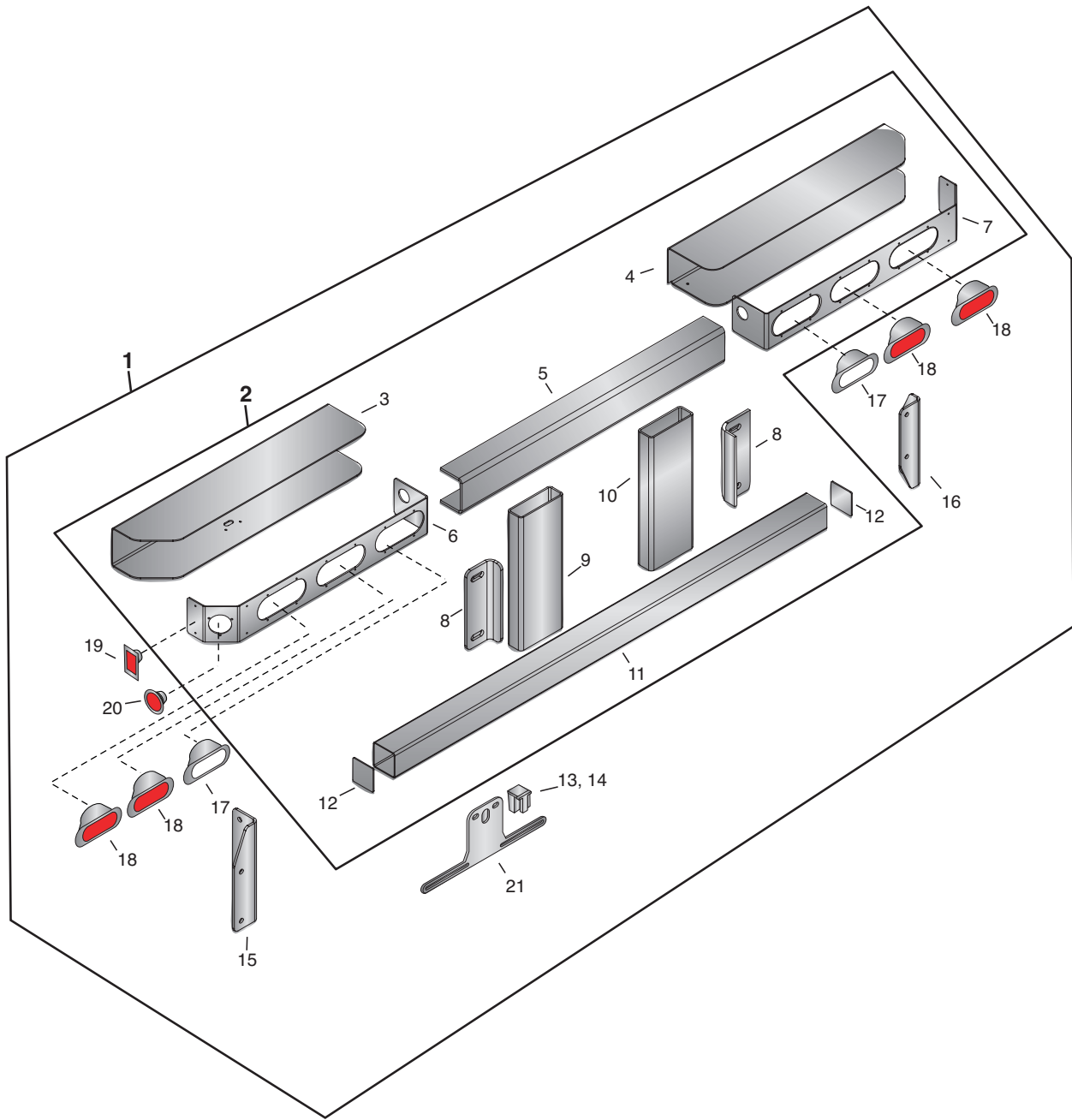
Safety Chain
9301154



ACCESSORIES

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6000349	1	Chain-Prf Coil .38, Prls #50104				
2	6001122	1	Hook-Crosby 32DA 2 Ton, 1-1/8 Eye				
3	6001123	1	Latch-Safety Crosby SS-4055				
4	6001124	2	Shackle-Chain 7/16 Size, 1-1/2 Ton				
5	2680176	2	Bracket-Safety Chain				

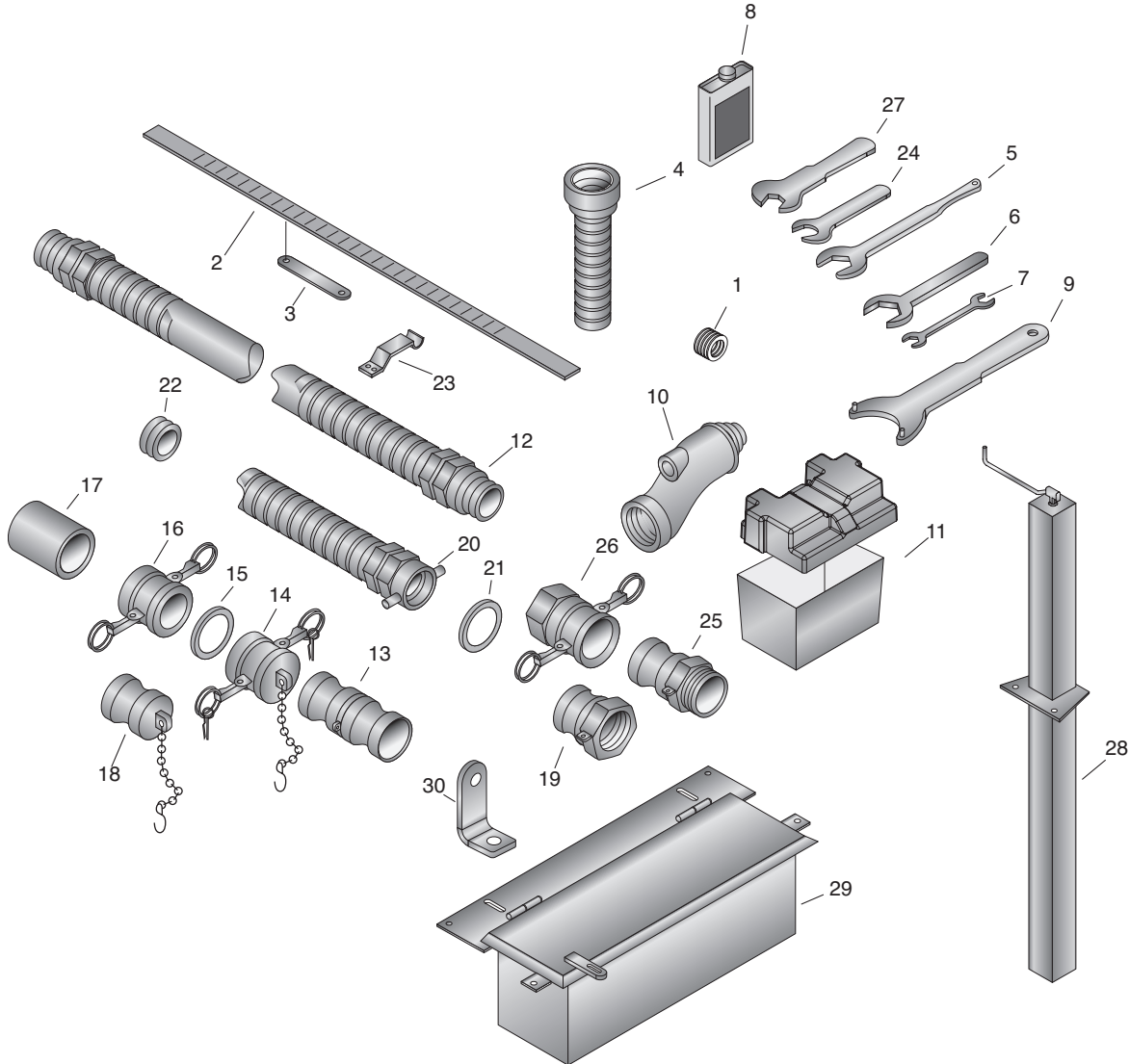
Rear Bumper Assembly



ACCESSORIES

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	3382555	1	Bumper Asm-LED Lamps w/ Flgs <i>(Includes Assembly 2, & Ref 13-21)</i>	11	3311797	1	Beam-Underride
2	3382430	1	Bumper Weldment, Bolt On <i>(Includes Ref 3-12)</i>	12	3312563	2	End Plate-Spraybar
3	3311991	1	LH Channel-Bumper LED	13	6704058	1	Light-License Plate
4	3311992	1	RH Channel-Bumper LED	14	6704100	1	License Light Bracket
5	3311990	1	Channel-Formed Bumper LED	15	3382432	1	Bumper Bracket-LH
6	3370620	1	Faceplate-LED Bumper, Flg Mnt, LH	16	3382433	1	Bumper Bracket-RH
7	3370622	1	Faceplate-LED Bumper, Flg Mnt, RH	17	6704415	2	Light-Oval, LED Back-Up, Flg
8	3382431	2	Bumper Bracket	18	6704414	4	Light-Oval LED Red, S / T / T, Flg
9	3312621	1	Tube-Spraybar Guard, W/ Holes	19	6703813	4	Reflector-Red Rectangular
10	3311840	1	Tube-Spraybar Guard	20	6704062	2	Light-2" Red, Flg, LED
				21	6703812	1	License Plate Bracket

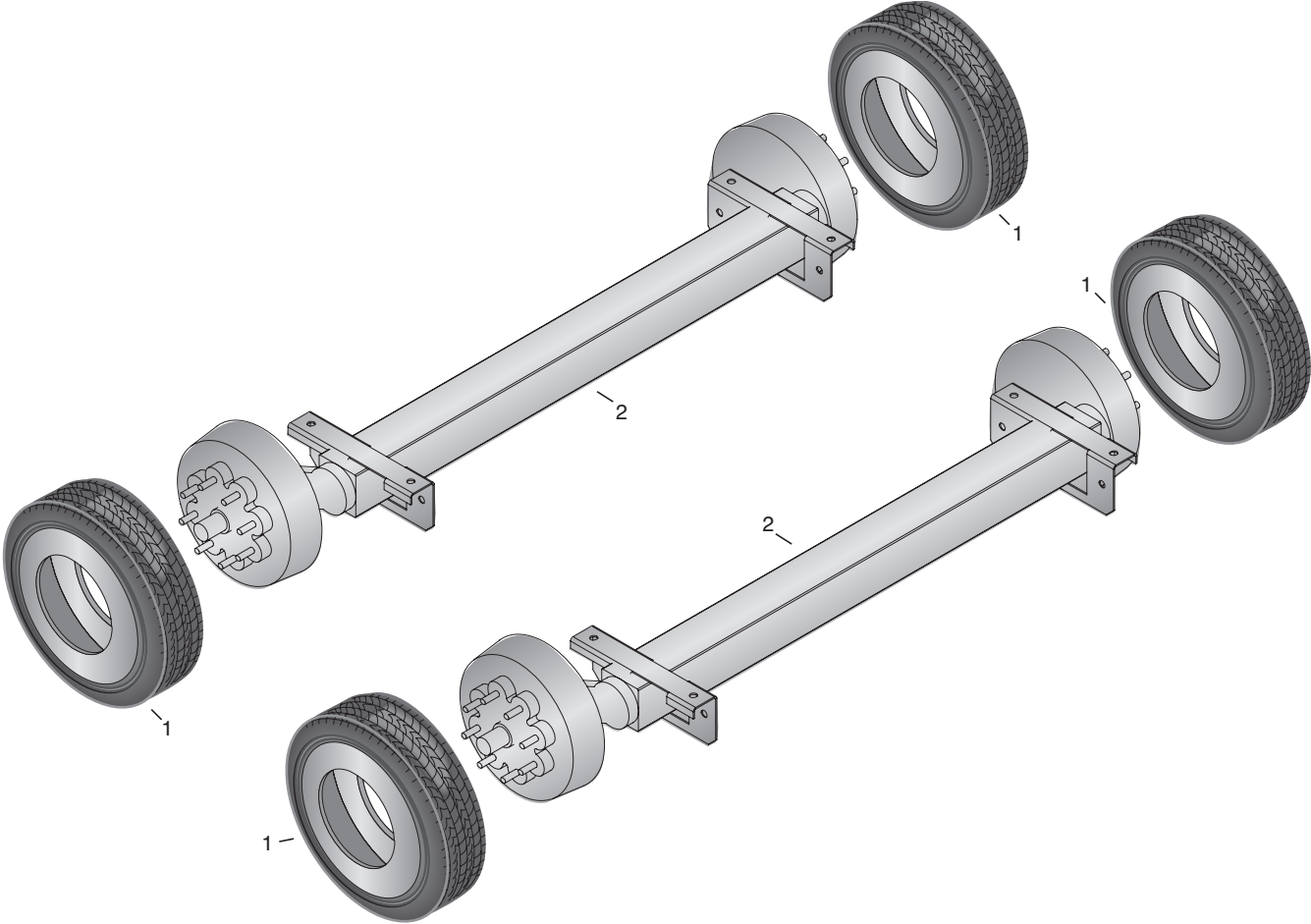
Miscellaneous Attachments And Tools



REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6600310	1	Packing Ring, 1.50 ID x 2.00 OD	15	6600279	1	Gasket-3" ID, Silicone
2	Measuring Stick ***** Call with Unit Serial Number			16	6600278	1	3" Coupler, Alum, Part B
3	3390645	1	Label-Measuring Stick (1 Flue)	17	6200059	1	Pipe Coupling-3.00NPT
4	3300036	1	Overflow Outlet Extension Asm	18	6600280	1	3" Dust Plug, Alum.
5	3380459	1	Open End Wrench, 2"	19	6600277	1	3" Adapter, Alum, Part A
6	3380079	1	Union Wrench, 2"	20	6600265	1	Hose Asm-3", T&A x 15' M/F Cplg
7	6000376	1	Armstrong Wrench	7400004	1	Hose-3", Tiger, W/Male Nipples BE	
8	7220056	1	Anti-Foam Concentrate, 1 Pint	21	6600267	2	Gasket-3.50 x 2.88 x 0.13, ASB
9	3380848	1	Wrench-Spanner	22	7220028	1	Cord-Norfab, 0.6"
10	3340040	1	3" Connector	23	3310040	2	Bracket-Measuring Stick
11	6705075	1	Battery Box	24	3381752	1	Wrench-Open End, 1.63", VWSB
12	6601926	1	Hose Asm-3.00 x 15 Ft.	25	6001011	1	Adapter-3", Evertite
	6602576	1	Hose Asm-3.00 x 12 Ft.	26	6001012	1	Coupler-3", Evertite
	7400004	1	Hose-3", Tiger, w/Male Nipp BE,Rub	27	3380442	1	Wrench-Open End, 1.5", SAM
	6600443	1	Hose Asm-3 In X 20 Ft, M/M	28	6453854	1	Jack-Top Wind, Drop Foot
13	6600152	1	Hose Connector-3"	29	2681189	1	Tool Soaking Box
	6600282	1	Double Connector, 3", Alum	30	3383867	1	Angle-Toolbox Locking Tab
	6600281	1	Dust Cap, 3", Alum W/Chain				
	6600250	1	Dust Cap, 3", Brass				

Specify Unit Serial No., Part No., & Part Description

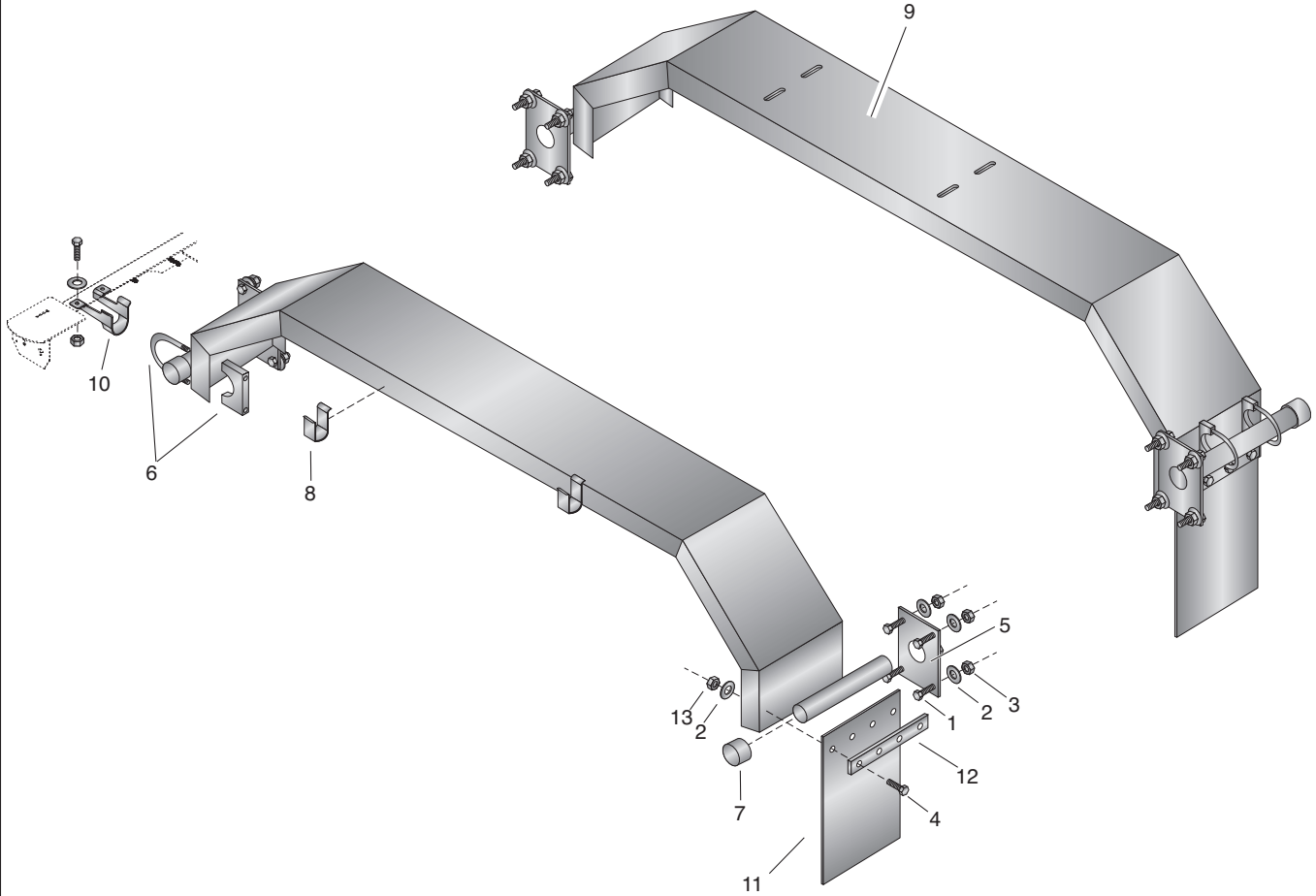
Axle Assembly



AXLE

REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	6453855	4	Wheel Asm 235/85R16	2	6453844	2	Axle-Torsion, 7K, 8 Lug

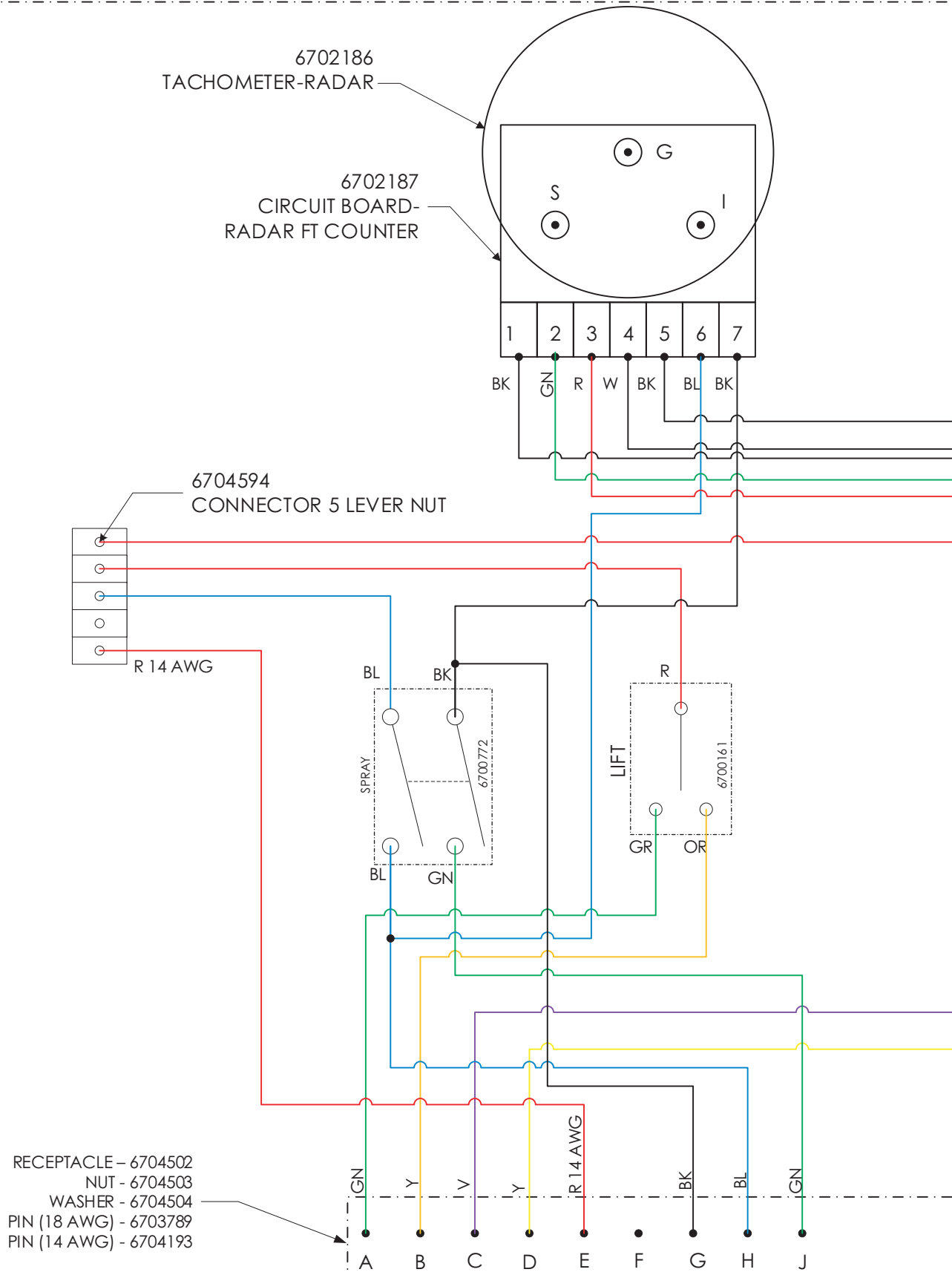
Fender Assembly



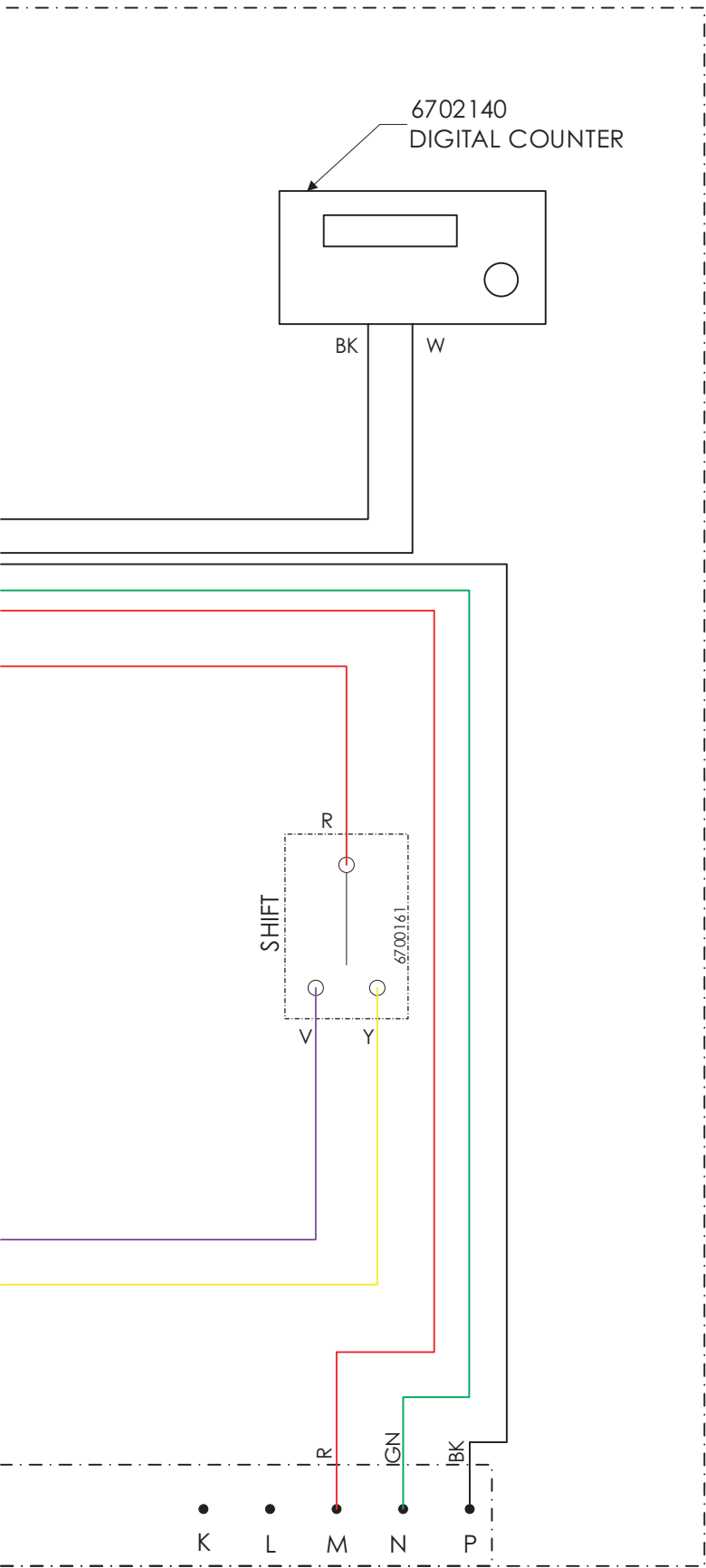
REF	PART NO.	QTY	DESCRIPTION	REF	PART NO.	QTY	DESCRIPTION
1	0180124	16	Capscrew, Gr5, 0.375"UNC x 1.25" Lg				
2	0446363	24	Washer-Flat, SAE Std, 0.313"				
3	0274993	18	Nut-Hex, Lock, 0.375"NC, PD				
4	01800121	2	Capscrew, Gr5, 0.375"UNC x 0.88" Lg				
5	2680825	4	Bracket Weldment-Fender Support				
6	6001482	8	Clamp-Muffler, 1.50"				
7	6000689	4	Cap-Vinyl Plastisol, Black #89				
8	2680831	1	Fender RS-M.U. w/ Spraybar Hooks				
9	2680841	1	Fender-Smooth, CS				
10	2680843	1	Hook-1" Hose, Bolt On				
11	2680849	2	Mud Flap-M.U.				
12	2680850	2	Bar-Mudflap, Backup				
13	0120376	8	Nut-Hex, 0.31"NC, PD				

WHEEL COVERS

Cab Box - Schematic 9307490



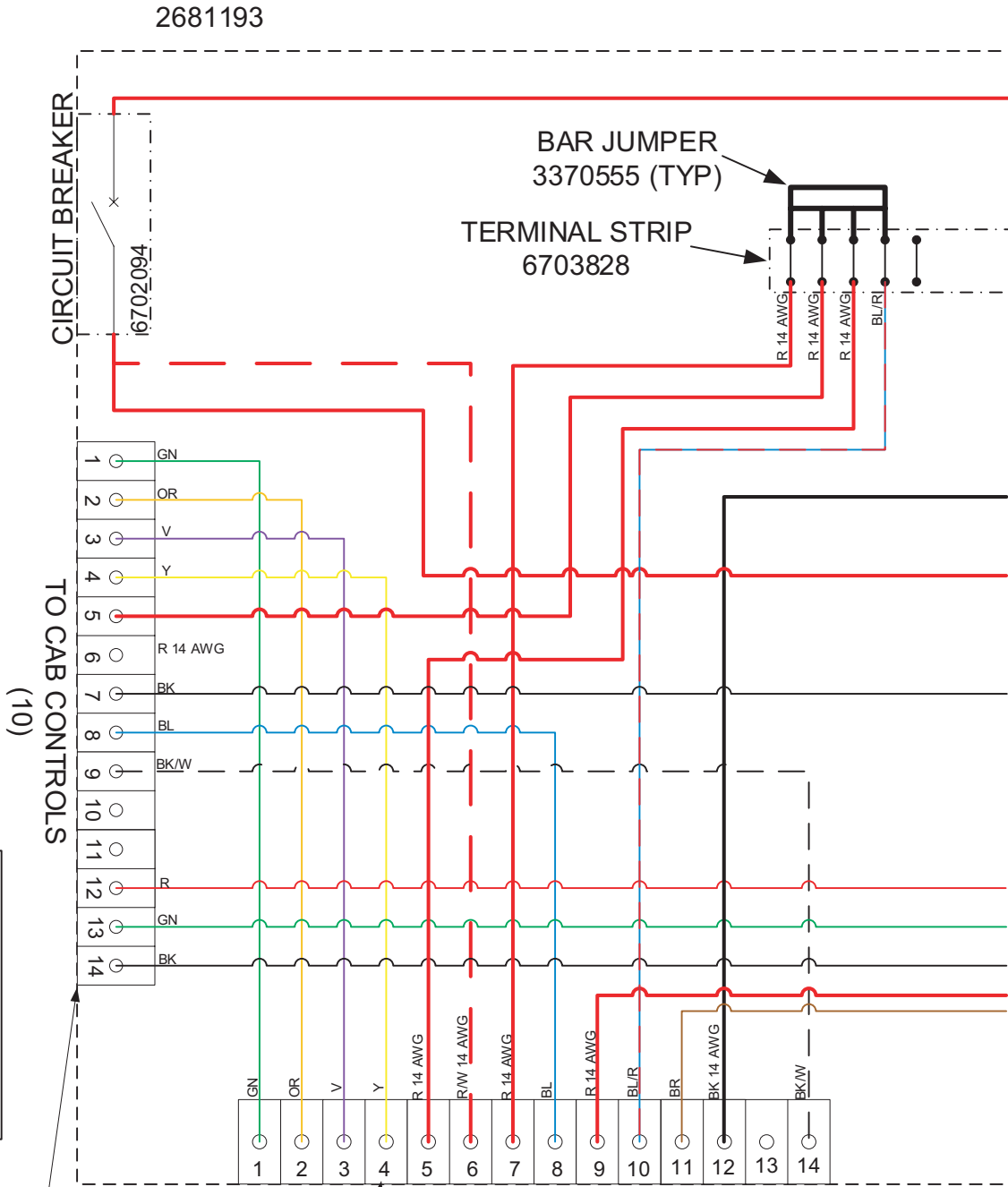
Cab Box - Schematic 9307490



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Br	BROWN
Gn	GREEN
Gr	GRAY
Or	ORANGE
R	RED
V	VIOLET
W	WHITE
Y	YELLOW
Pk	PINK

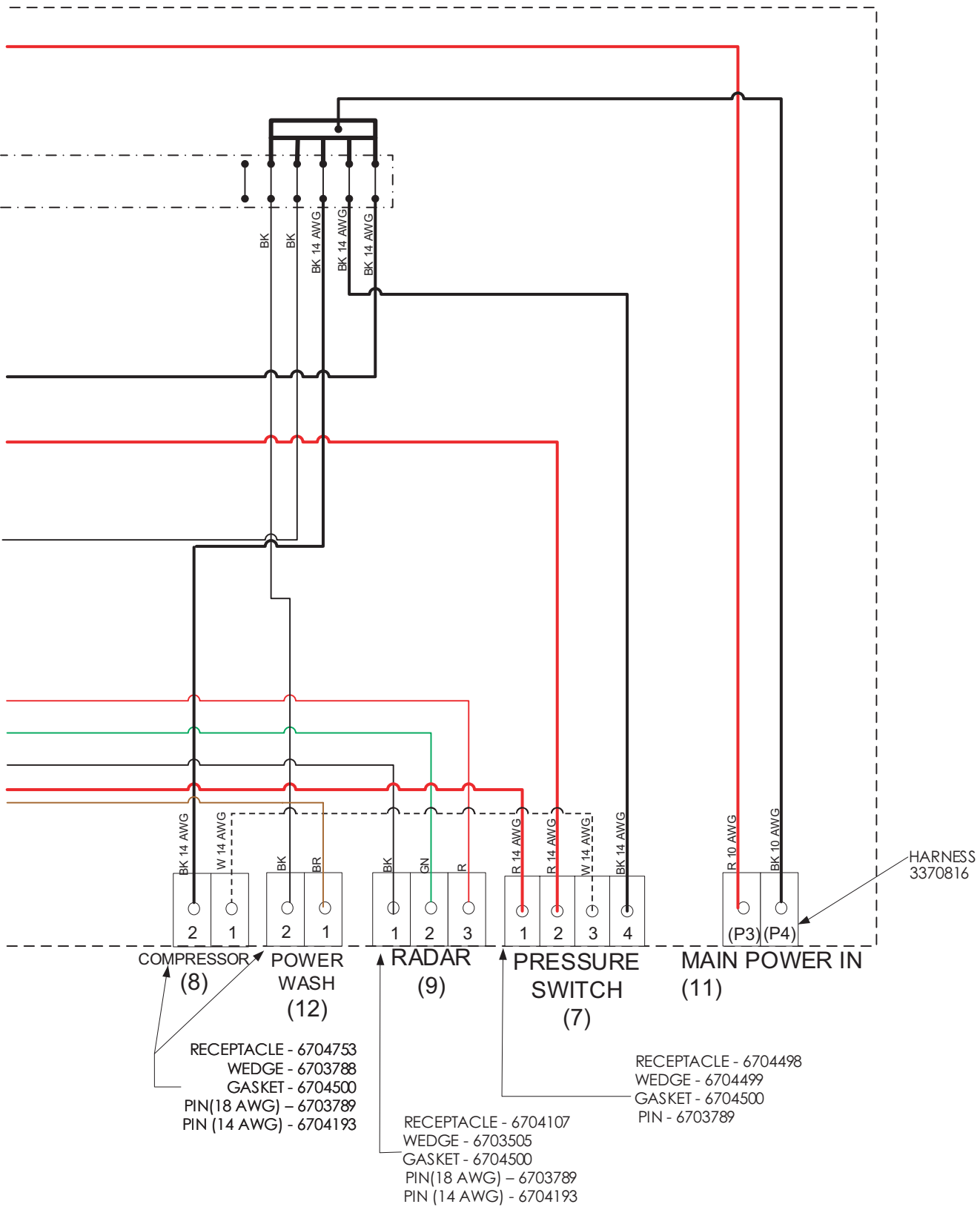
ELECTRICAL

Junction Box - Schematic 9307489



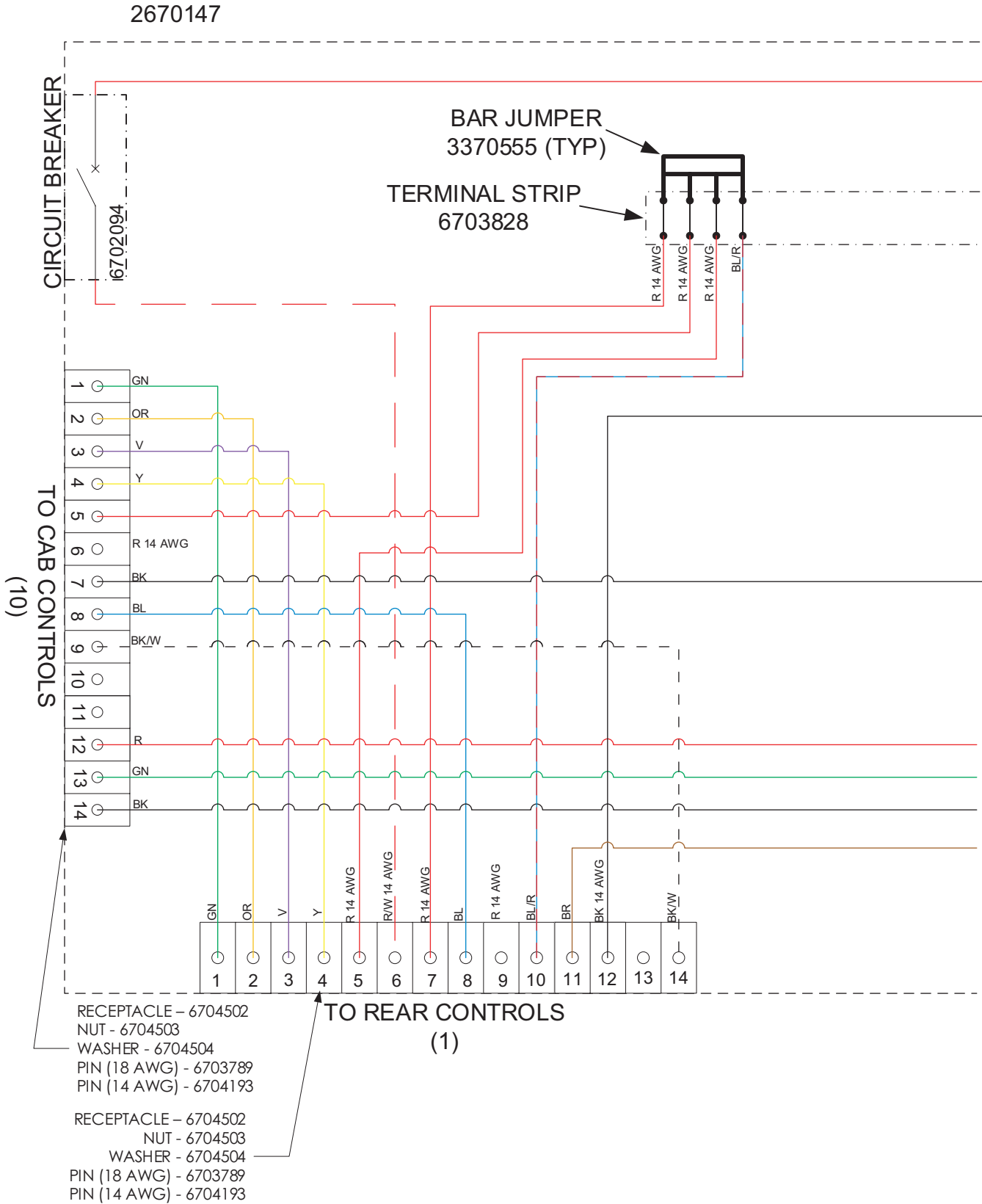
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Y	YELLOW
PK	PINK

Junction Box - Schematic 9307489



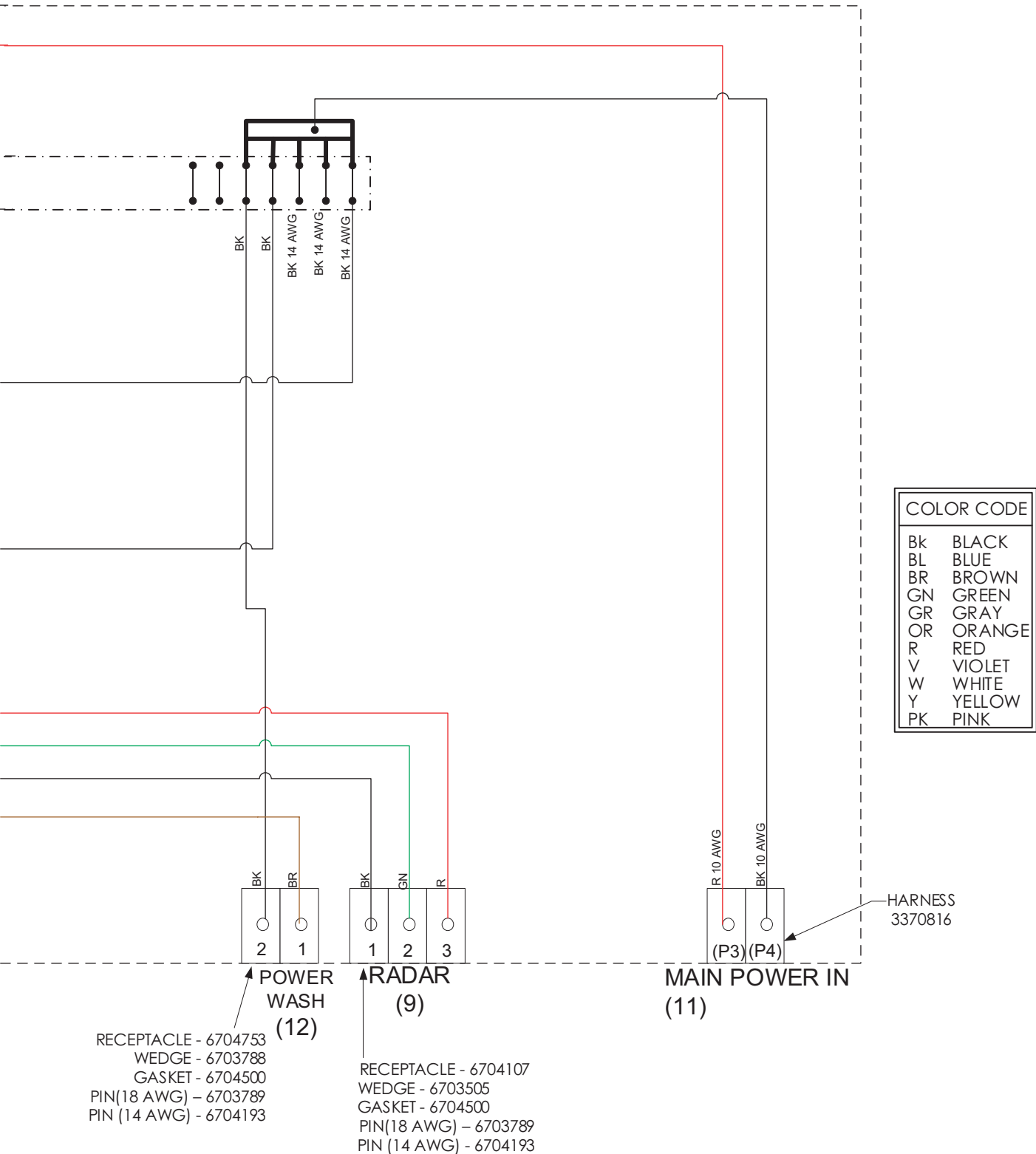
HARNESS 3370816

Junction Box - Schematic 9307502

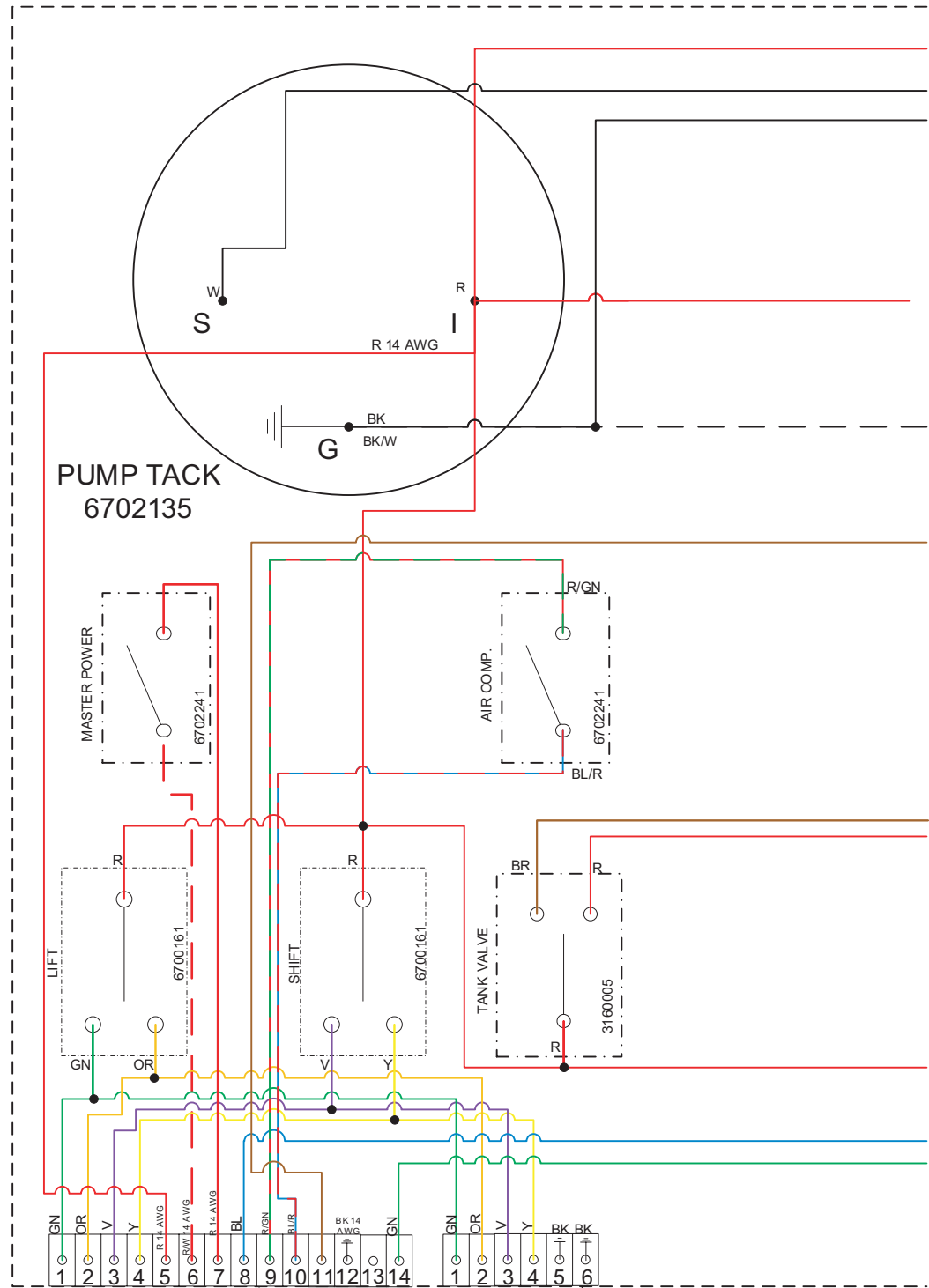


ELECTRICAL

Junction Box - Schematic 9307502



Rear Controls - Schematic 9307488



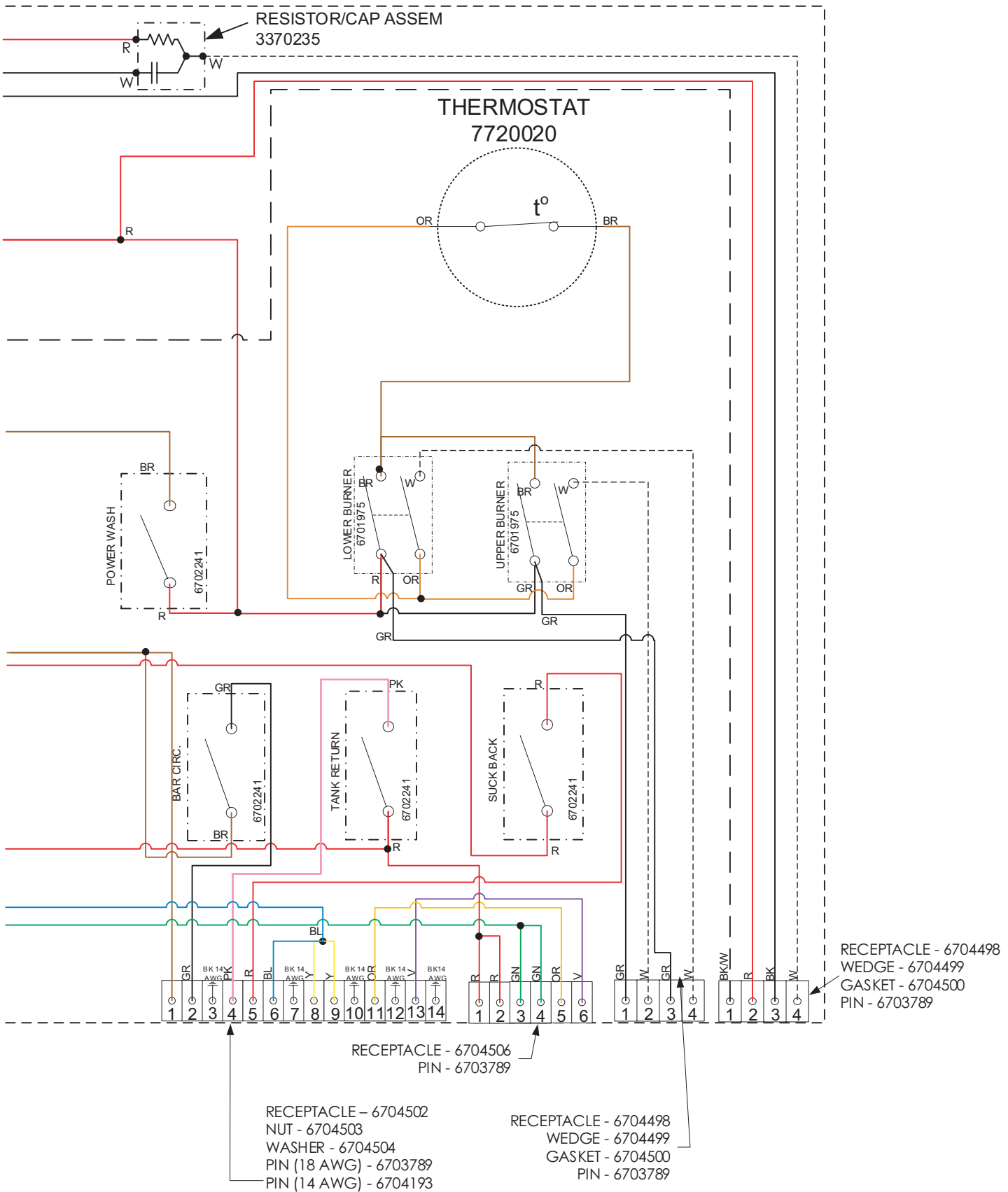
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V	VIOLET
W	WHITE
Y	YELLOW
PK	PINK

RECEPTACLE - 6704502
 NUT - 6704503
 WASHER - 6704504
 PIN (18 AWG) - 6703789
 PIN (14 AWG) - 6704193

RECEPTACLE - 6704506
 PIN - 6703789

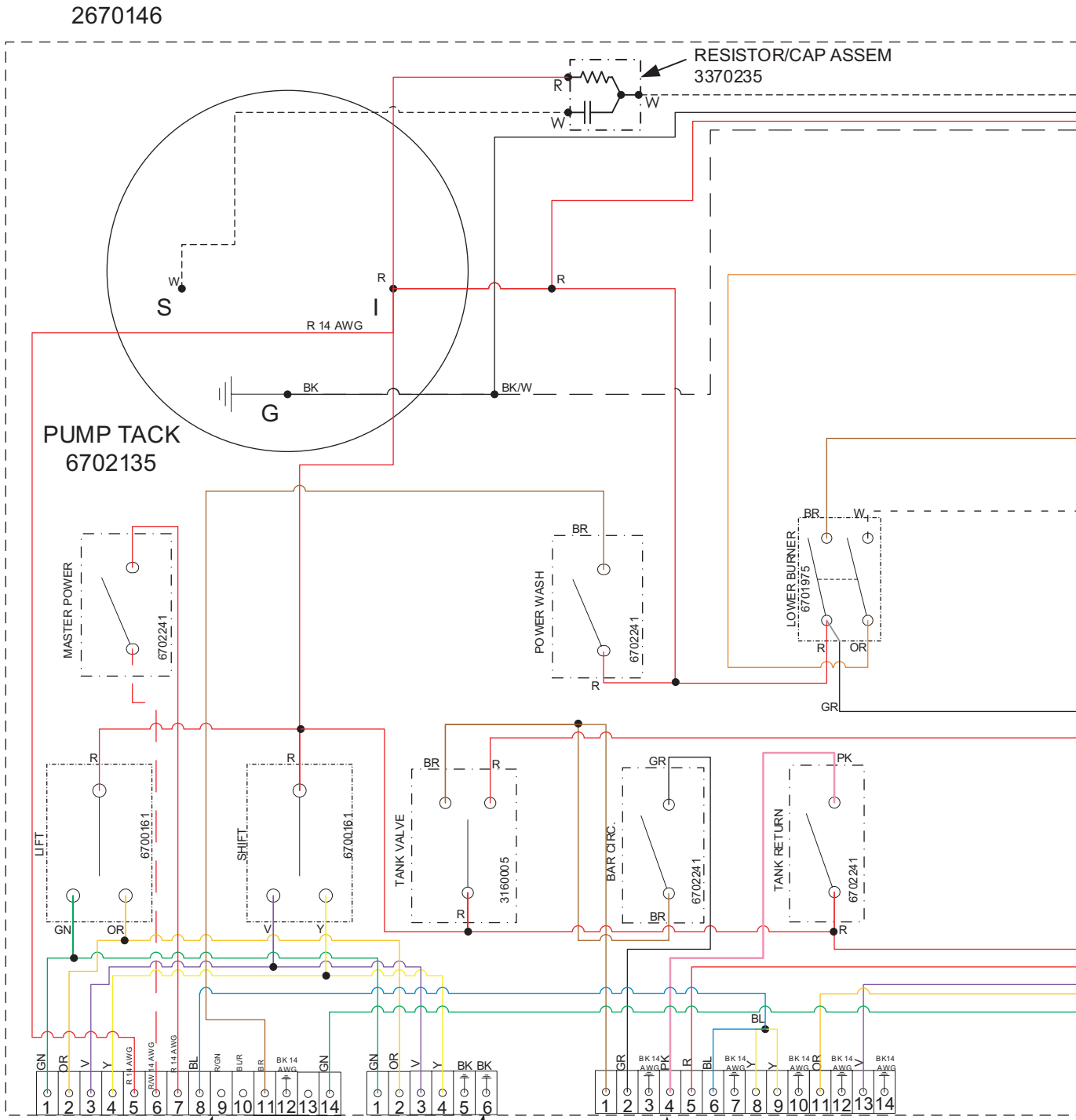
ALL WIRES TO BE 18 AWG
 UNLESS OTHERWISE NOTED

Rear Controls - Schematic 9307488



ELECTRICAL

Rear Controls - Schematic 9307501



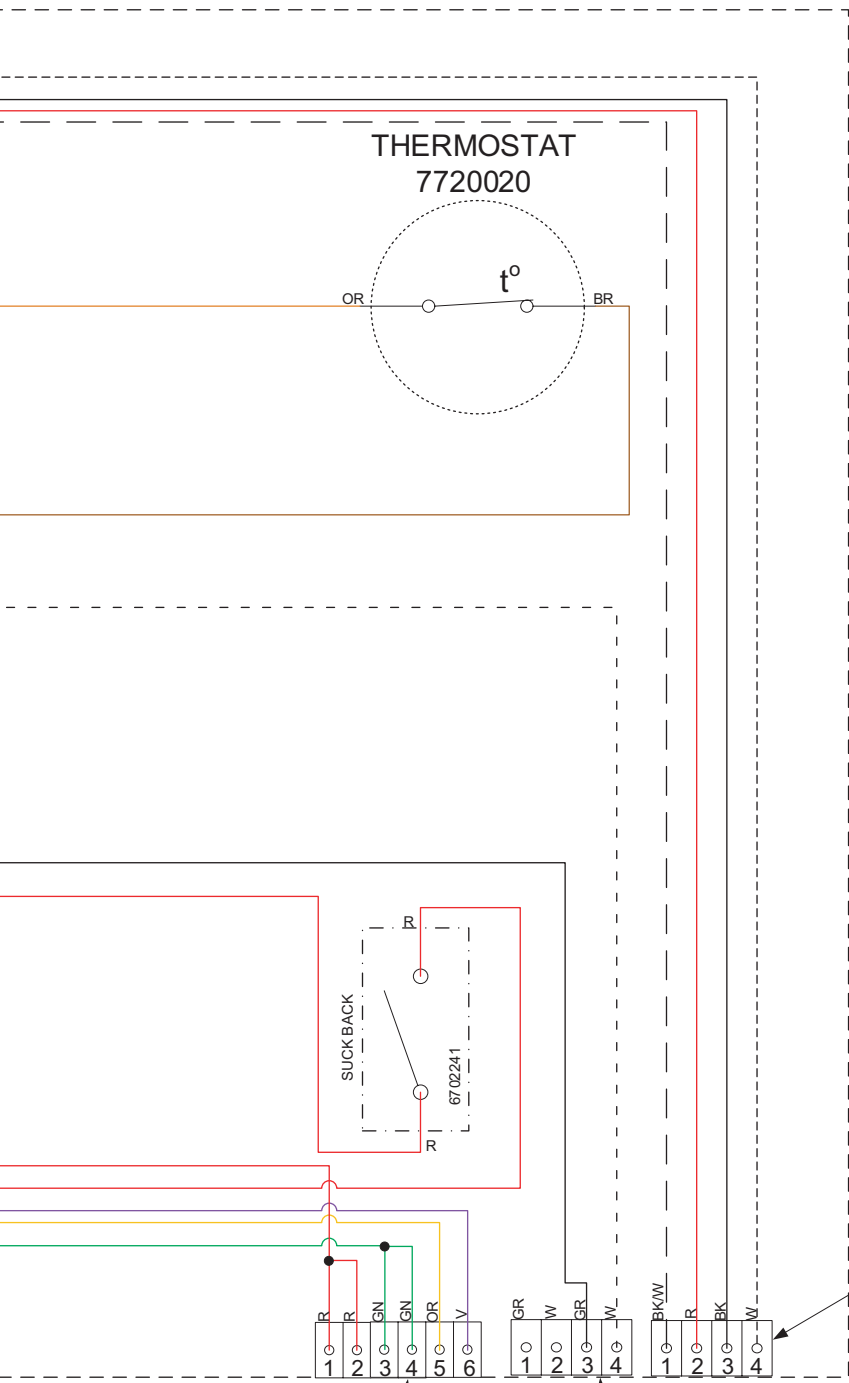
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 NUT - 6704503
 WASHER - 6704504
 PIN (18 AWG) - 6703789
 PIN (14 AWG) - 6704193

RECEPTACLE - 6704506
 PIN - 6703789

RECEPTACLE - 6704502
 NUT - 6704503
 WASHER - 6704504
 PIN (18 AWG) - 6703789
 PIN (14 AWG) - 6704193

ALL WIRES TO BE 18 AWG
 UNLESS OTHERWISE NOTED

Rear Controls - Schematic 9307501



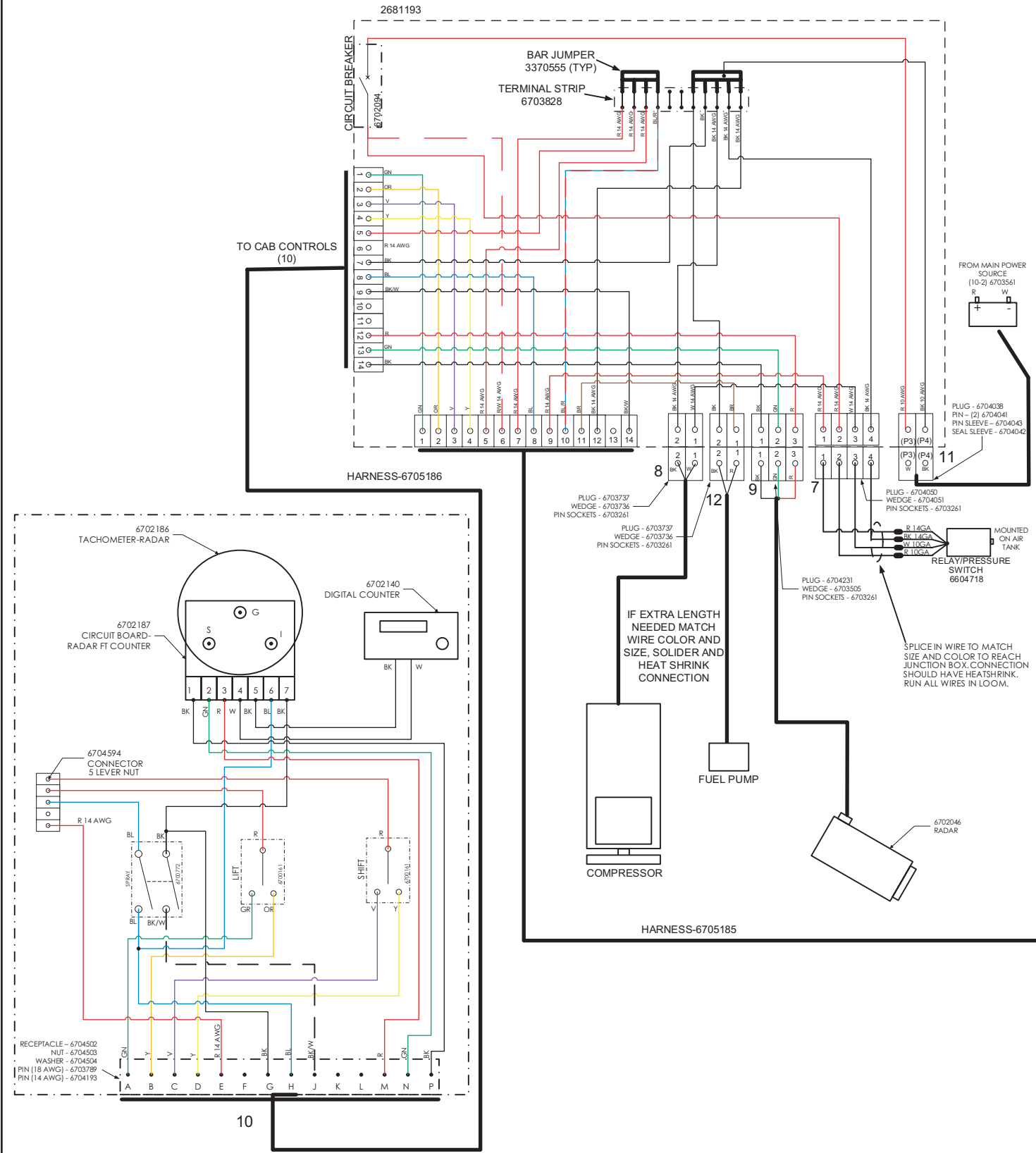
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V	VIOLET
W	WHITE
Y	YELLOW
PK	PINK

RECEPTACLE - 6704498
 WEDGE - 6704499
 GASKET - 6704500
 PIN - 6703789

RECEPTACLE - 6704506
 PIN - 6703789

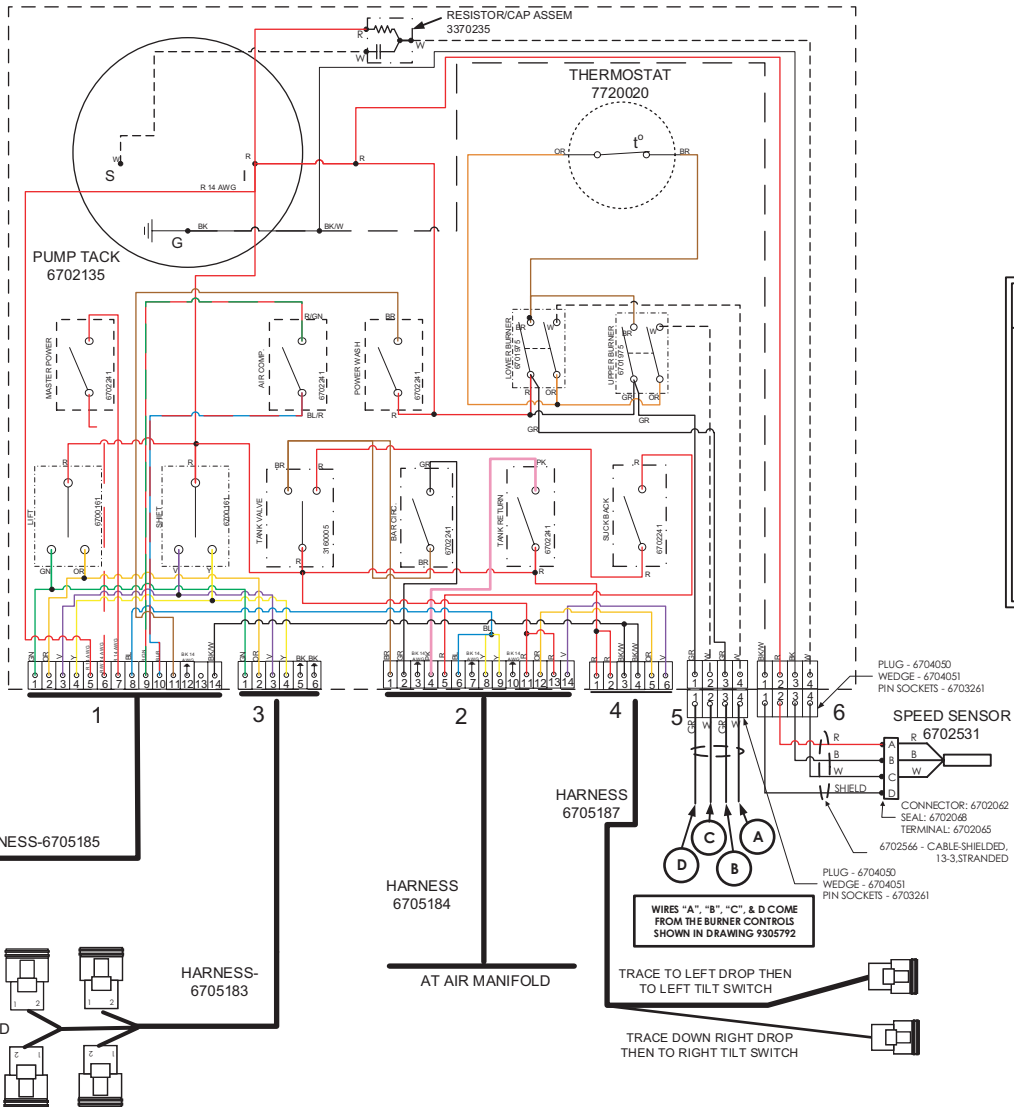
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 WEDGE - 6704499
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 PIN - 6703789

Electrical Controls - Schematic 9307491



ELECTRICAL

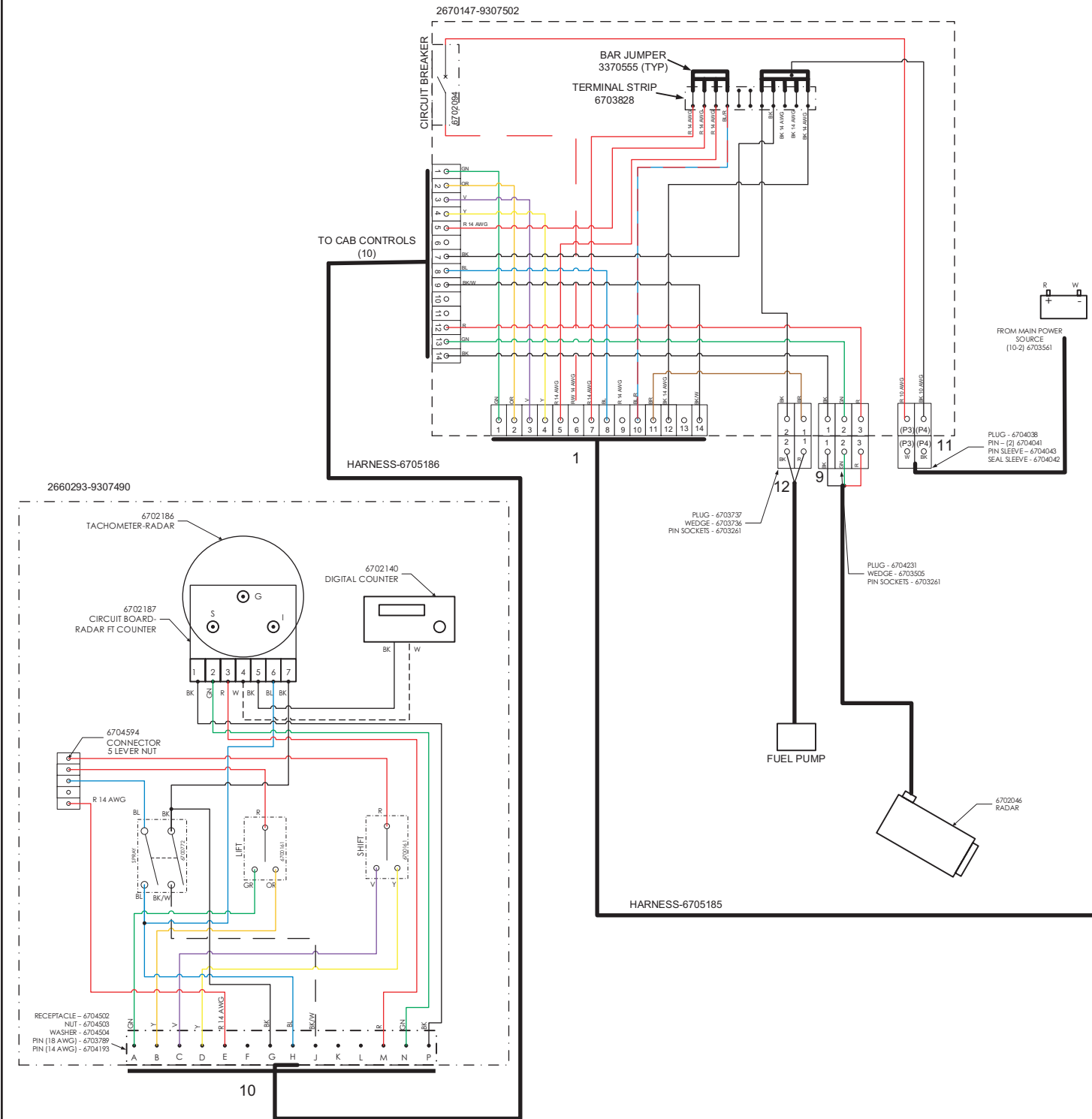
Electrical Controls - Schematic 9307491



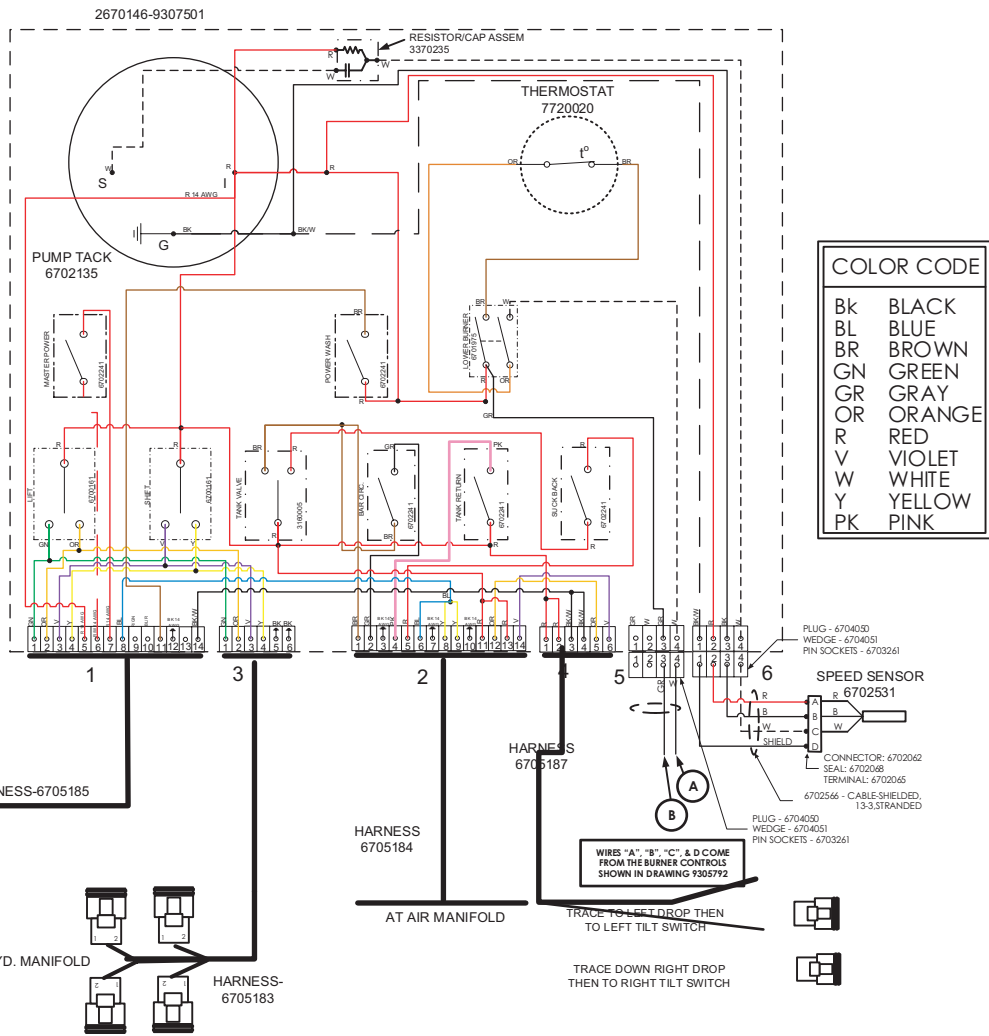
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Y	YELLOW
PK	PINK

ELECTRICAL

Electrical Controls - Schematic 9307500



Electrical Controls - Schematic 9307500



COLOR CODE	
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BL	BLUE
BR	BROWN
GN	GREEN
GR	GRAY
OR	ORANGE
R	RED
V	VIOLET
W	WHITE
Y	YELLOW
PK	PINK

ELECTRICAL

Fuel Oil Burner Wiring

9305456

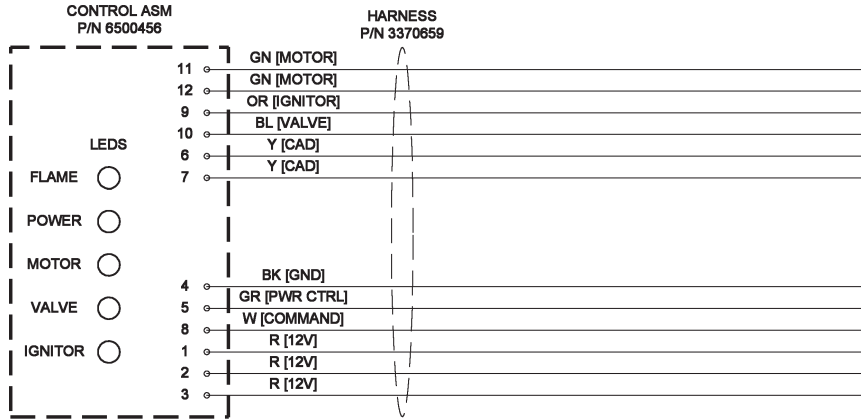
ORDER OF LEDES

FLAME (RED) = ON WHEN COMMAND APPLIED, NO FAULTS AND FLAME DETECTED BY CAD CELL
 POWER (GREEN) = ON WHEN POWER APPLIED TO CONTROL
 MOTOR (GREEN) = ON WHEN MOTOR OUTPUT ON
 VALVE (GREEN) = ON WHEN VALVE OUTPUT ON
 IGNITOR (GREEN) = ON WHEN IGNITOR OUTPUT ON

FAULT FLASH PATTERNS OF RED LED (SHORT = ¼ SECOND, LONG = 2 SECOND)

- 1 SHORT, 1 LONG = CAD > 20K ON POWER UP
- 2 SHORT, 1 LONG = IGNITOR OUTPUT SHORTED TO 12V
- 3 SHORT, 1 LONG = VALVE OUTPUT SHORTED TO 12V
- 4 SHORT, 1 LONG = MOTOR OUTPUT SHORTED TO 12V
- 5 SHORT, 1 LONG = NO IGNITION DETECTED AFTER 15 SECONDS THROUGH CAD CELL
- 6 SHORT, 1 LONG = VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
- 7 SHORT, 1 LONG = IGNITOR OUTPUT OVER CURRENT OR SHORTED TO GND
- 8 SHORT, 1 LONG = MOTOR OUTPUT OVER CURRENT OR SHORTED TO GND

FAULTS CLEARED WITH COMMAND INPUT



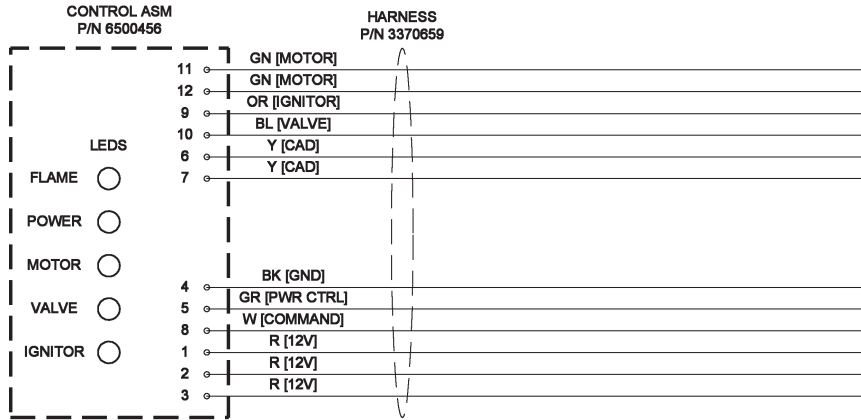
ORDER OF LEDES

FLAME (RED) = ON WHEN COMMAND APPLIED, NO FAULTS AND FLAME DETECTED BY CAD CELL
 POWER (GREEN) = ON WHEN POWER APPLIED TO CONTROL
 MOTOR (GREEN) = ON WHEN MOTOR OUTPUT ON
 VALVE (GREEN) = ON WHEN VALVE OUTPUT ON
 IGNITOR (GREEN) = ON WHEN IGNITOR OUTPUT ON

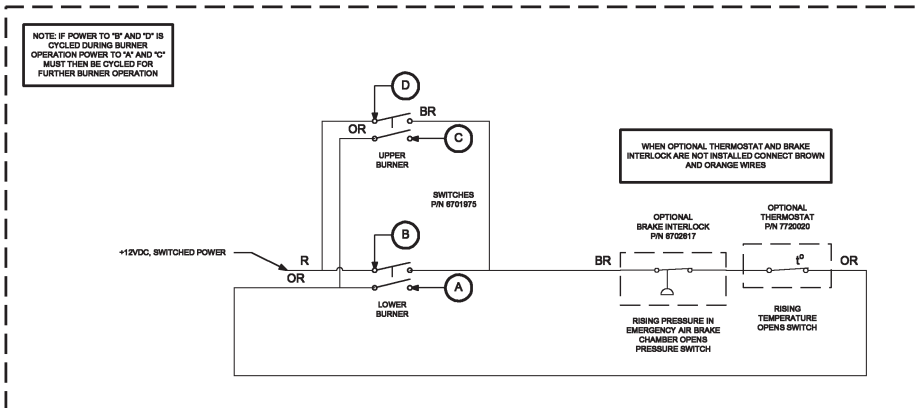
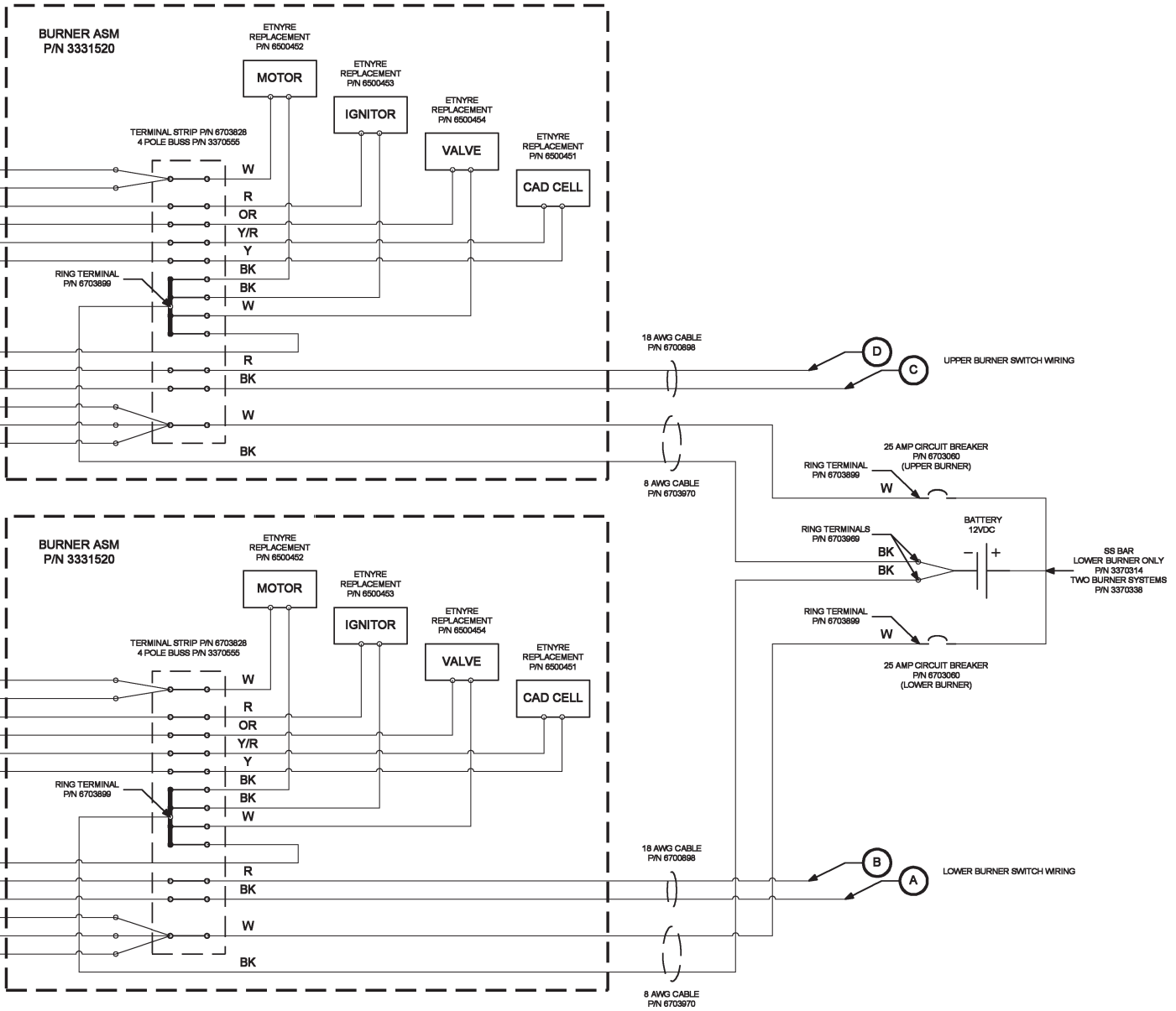
FAULT FLASH PATTERNS OF RED LED (SHORT = ¼ SECOND, LONG = 2 SECOND)

- 1 SHORT, 1 LONG = CAD > 20K ON POWER UP
- 2 SHORT, 1 LONG = IGNITOR OUTPUT SHORTED TO 12V
- 3 SHORT, 1 LONG = VALVE OUTPUT SHORTED TO 12V
- 4 SHORT, 1 LONG = MOTOR OUTPUT SHORTED TO 12V
- 5 SHORT, 1 LONG = NO IGNITION DETECTED AFTER 15 SECONDS THROUGH CAD CELL
- 6 SHORT, 1 LONG = VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
- 7 SHORT, 1 LONG = IGNITOR OUTPUT OVER CURRENT OR SHORTED TO GND
- 8 SHORT, 1 LONG = MOTOR OUTPUT OVER CURRENT OR SHORTED TO GND

FAULTS CLEARED WITH COMMAND INPUT



Fuel Oil Burner Wiring 9305456



ELECTRICAL

LP Burner Wiring - 9306309

ORDER OF LEDS

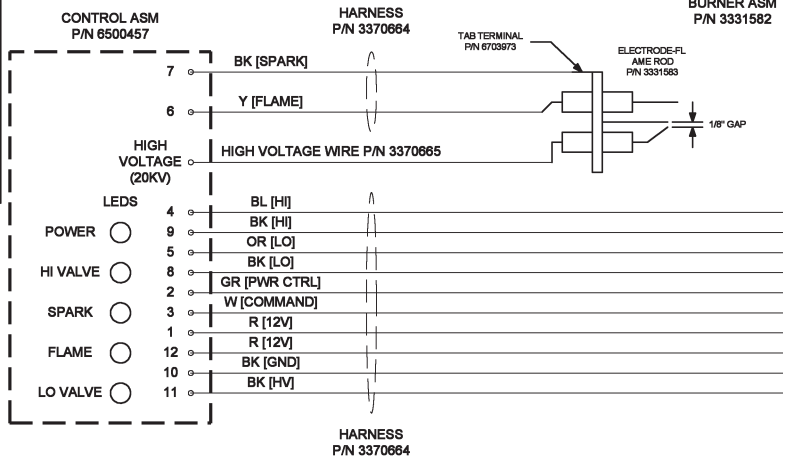
POWER (GREEN) = ON WHEN POWER APPLIED TO CONTROL
 HI VALVE (GREEN) = ON WHEN HI VALVE OUTPUT ON
 SPARK (GREEN) = ON WHEN SPARK OUTPUT IS PULSING
 FLAME (RED) = ON WHEN COMMAND APPLIED, NO FAULTS AND FLAME DETECTED
 LO VALVE (GREEN) = ON WHEN LO VALVE OUTPUT ON

FAULT FLASH PATTERNS OF RED LED (¼ SECOND FLASH, 2 SECOND PAUSE BETWEEN FAULTS)

1 FLASHES = HI VALVE OUTPUT SHORTED TO 12V
 2 FLASHES = HI VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
 3 FLASHES = LO VALVE OUTPUT SHORTED TO 12V
 4 FLASHES = LO VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
 5 FLASHES = LOCKOUT, FAILURE TO IGNITE AFTER FOUR TRIES
 6 FLASHES = FLAME FAULT, FLAME PRESENT UPON START UP

FAULTS CLEARED WITH COMMAND INPUT

IMPORTANT!
 ROUTE THE HIGH VOLTAGE WIRE AWAY FROM THE CONTROLLER, TERMINAL STRIP AND OTHER WIRING



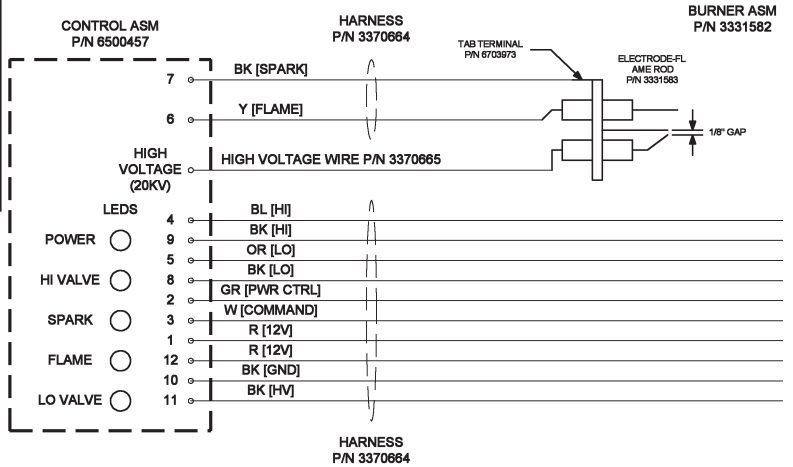
ORDER OF LEDS

POWER (GREEN) = ON WHEN POWER APPLIED TO CONTROL
 HI VALVE (GREEN) = ON WHEN HI VALVE OUTPUT ON
 SPARK (GREEN) = ON WHEN SPARK OUTPUT IS PULSING
 FLAME (RED) = ON WHEN COMMAND APPLIED, NO FAULTS AND FLAME DETECTED
 LO VALVE (GREEN) = ON WHEN LO VALVE OUTPUT ON

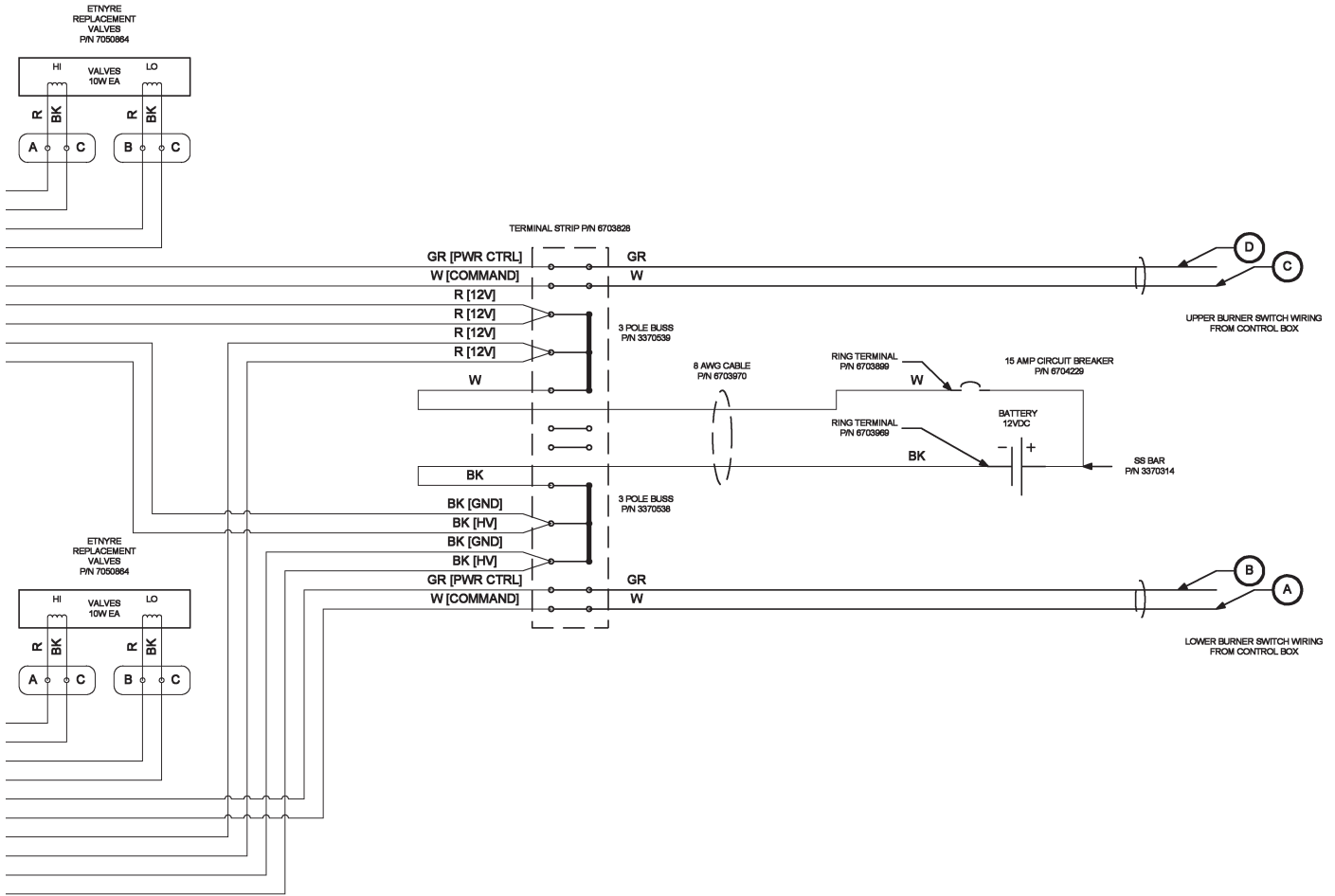
FAULT FLASH PATTERNS OF RED LED (¼ SECOND FLASH, 2 SECOND PAUSE BETWEEN FAULTS)

1 FLASHES = HI VALVE OUTPUT SHORTED TO 12V
 2 FLASHES = HI VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
 3 FLASHES = LO VALVE OUTPUT SHORTED TO 12V
 4 FLASHES = LO VALVE OUTPUT OVER CURRENT OR SHORTED TO GND
 5 FLASHES = LOCKOUT, FAILURE TO IGNITE AFTER FOUR TRIES
 6 FLASHES = FLAME FAULT, FLAME PRESENT UPON START UP

FAULTS CLEARED WITH COMMAND INPUT

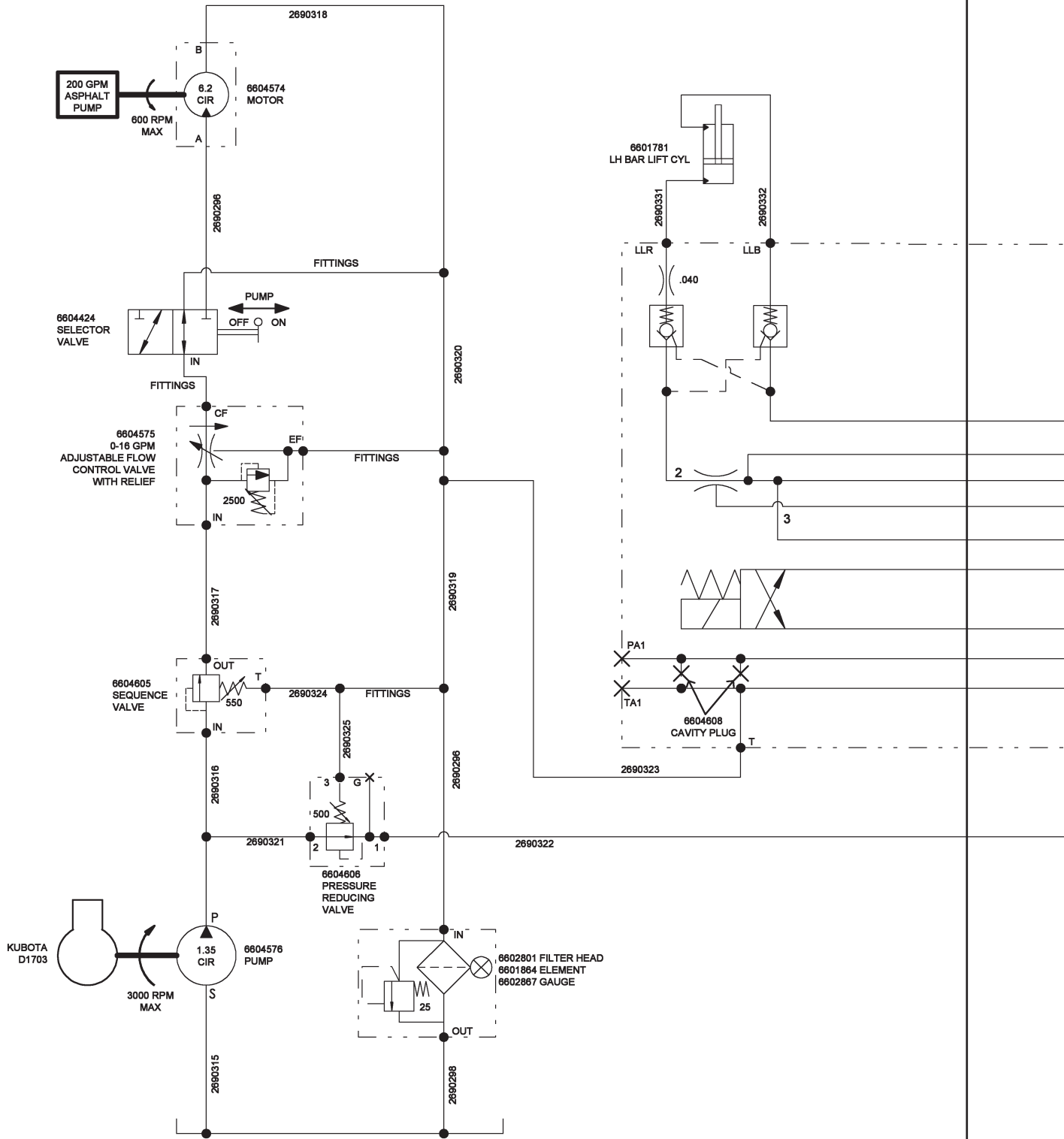


LP Burner Wiring - 9306309



Lift, Shift and Spray Hydraulic Schematic

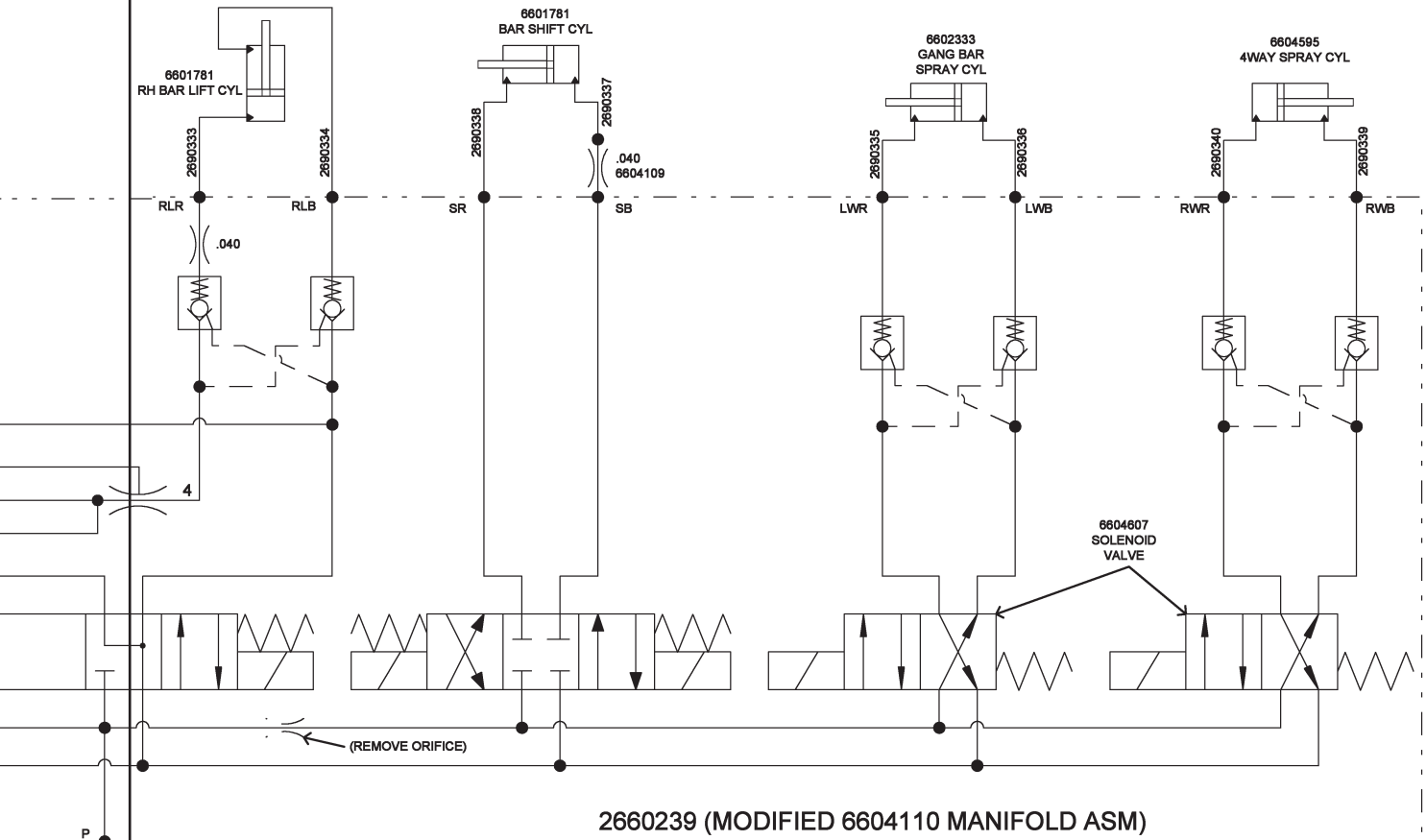
Kubota Diesel Engine



HYDRAULIC SCHEMATICS

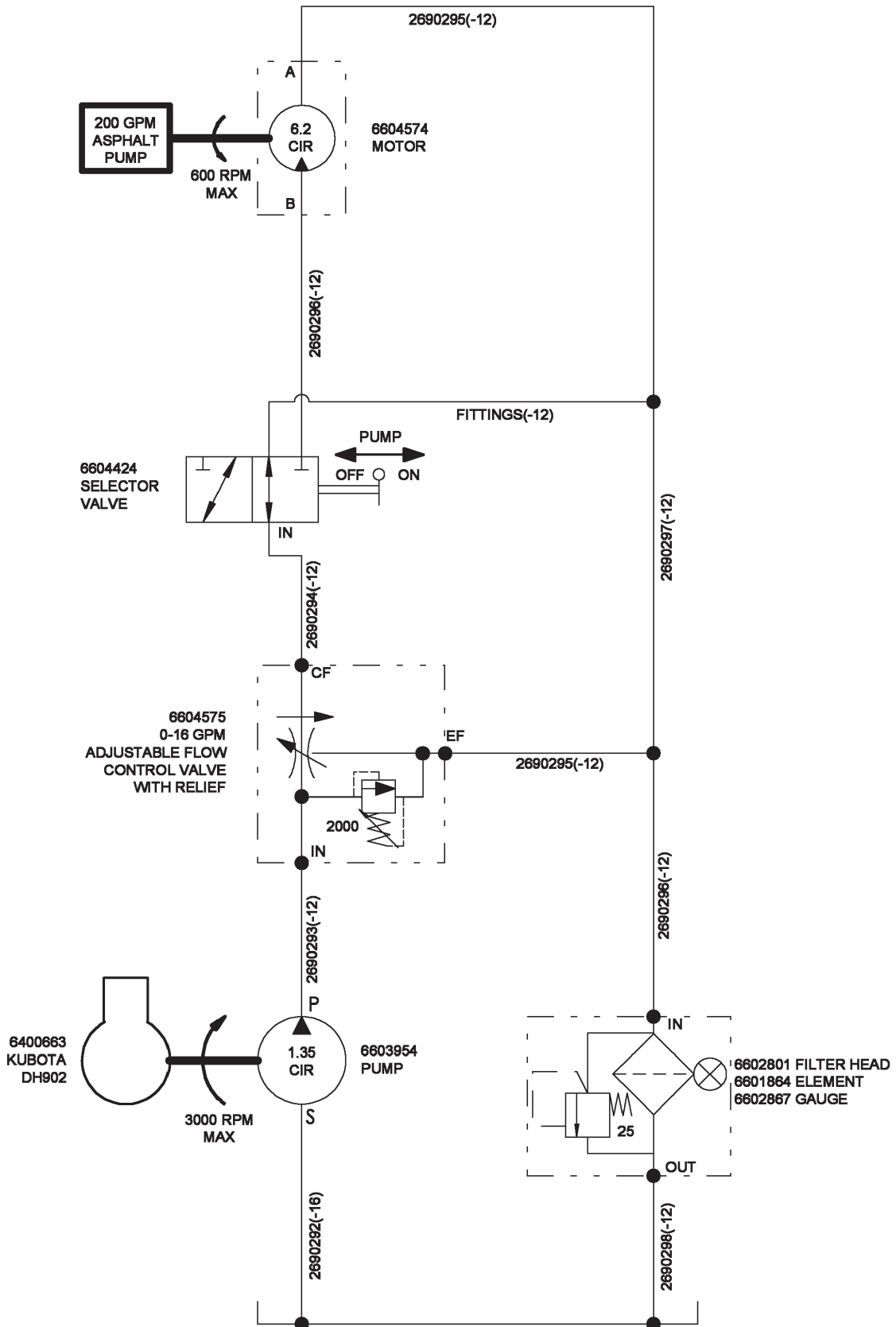
Lift, Shift and Spray Hydraulic Schematic

Kubota Diesel Engine



HYDRAULIC SCHEMATICS

Kubota Diesel, Pump Hydraulics



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Page Number	Reference Number	Paragraph Number	Figure Number	Problem (please be specific)