

GEARMORE®

TWINSTAR

GENERATION 2 BASKET RAKES



PART'S MANUAL

For

**Models 2027G2-7 & 2030G2-7
7 Bar Series**

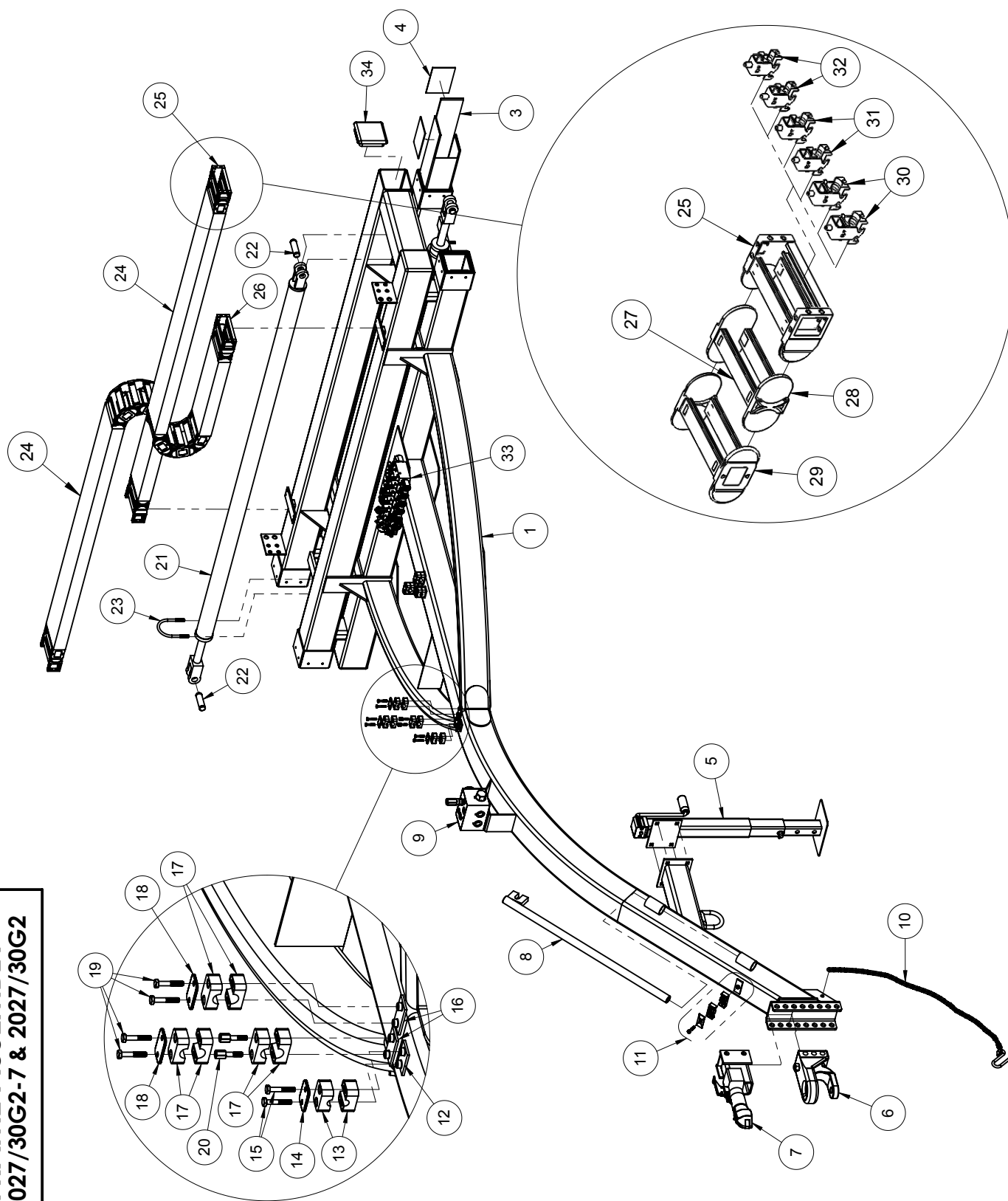
Serial # 147000 - 147999



GENERATION 2 PARTS MANUAL

DESCRIPTION	PAGE
TABLE OF CONTENTS	1
MAINFRAME ASSEMBLY	2-3
EXTENSION ARM ASSEMBLY	4-5
BASKET HANGER, FRAME, & LIFT ASSEMBLY	6-7
TWIN HUB AND STAR ASSEMBLY	8-9
GAUGE WHEEL ASSEMBLY	10-11
ANGLE STOP ASSEMBLY	12-13
HYDRAULIC FLOW CONTROL	14-15
HYDRAULIC SCHEMATIC – 5 FUNCTION	16-17
HYDRUALIC SCHEMATIC – 6 FUNCTION	18-19
EXTENSION ARM HYDRAULIC CYLINDER	20
FIVE FUNCTION CONTROL VALVE	21-34
SIX FUNCTION CONTROL VALVE	25-28
FIVE FUNCTION CONTROL BOX	29-31
SIX FUNCTION CONTROL BOX	32-34

MAIN FRAME ASSEMBLY **MODELS: 2027/30G2-7 & 2027/30G2**



MAINFRAME ASSEMBLY

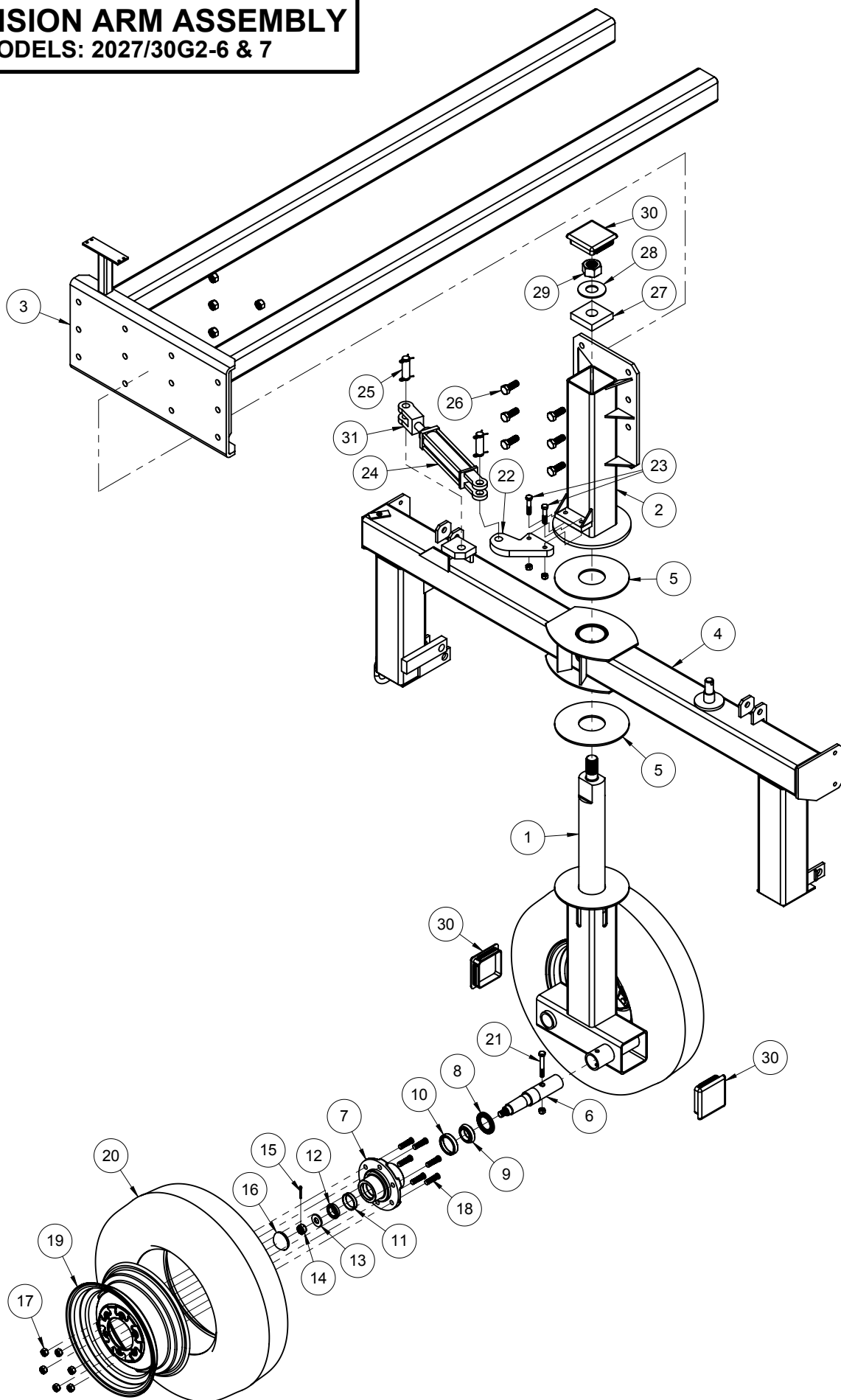
MODELS: 2027/30G2-7

ITEM	QTY	PART NO	DESCRIPTION
1	1	HR-2030-G2	Main Frame
3	16	HR-0051-G2	Slide Tube Wear Strip 1/4" x 3 7/8"
4	8	HR-0055-G2	12 Gauge Shim
#	16	G-25-1.25-SFHMS	1/4" x 1 1/4" Slot Flat Head Machine Screw w/ 1/4" Nylock Nut (Shim Side) (not shown)
#	16	G-25-1-SFHMS	1/4" x 1" Slot Flat Head Machine Screw w/ 1/4" Nylock Nut (not shown)
	Ref	HR-0051HK	Slide Tube Wear Strip Hardware Kit, Includes 16 ea. of the above 2 items
5	1	HR-2052	Tongue Jack
6	1	HR-0490	Clevis Hitch Assembly
7	Ref	HR-2410P	2-5/16" Ball Hitch - optional for clevis hitch
8	1	HR-2001	Stripper Bar Adjustment Tool
9	1	HR-0391	Hydraulic Manifold w/ Cartridges
10	1	HR-0341	Safety Chain - 37"
11	1	HR-0404	1/2" Clamp - Double Hose (w/ Mounting Plate & Top Plate)
12	2	HR-0700	Base Plate (1/2" Clamp - Single Hose)
13	2	HR-0417	1/2" Clamp - Single Hose
14	2	HR-0415	Top Plate (1/2" Clamp - Single Hose)
15	4	HR-0419	1/4" x 1-1/2" HHCS
16	4	HR-0701	Base Plate (3/4" Clamp - Single Hose)
17	6	HR-0407	3/4" Clamp - Single Hose
18	4	HR-0408	Top Plate (3/4" Clamp - Single Hose)
19	8	HR-0419	1/4" x 1-1/2" HHCS
20	4	HR-0406	Stack Bolt 3/4" Clamp
21	2	HR-0318-1	Spread Cylinder Without External Hydraulic Line, Ram
22	4	HR-0317	Hyd Cyl Pin
23	2	G-375-3.5-NCU	3/8" x 3 1/2" U-Bolt
24	1	HR-3130	Energy Chain - Set of 2, 6-5/8" Width Assembled Chains
25	2	HR-3131	Energy Chain - Moving KMA Bracket For 6-5/8" Width Chain
26	2	HR-3132	Energy Chain - Fixed KMA Bracket For 6-5/8" Width Chain
27	168	HR-3113	Energy Chain - Crossbar For 6-5/8" Width Chain
28	80	HR-3138	Energy Chain - Inside Plate For 6 5/8" Width Chain
29	80	HR-3139	Energy Chain - Outside Plate For 6 5/8" Width Chain
30	4	HR-3106	Energy Chain - Chain Fix 1/2" Single For 6-5/8" Width Chain
31	4	HR-3115	Energy Chain - Chain Fix 3/8" Single For 6-5/8" Width Chain
32	4	HR-3114	Energy Chain - Chain Fix 1/4" Single For 6-5/8" Width Chain
#	REF	HR-3117	Energy Chain - Hose Separator (not shown)
33	1	700-0805-4022	Hydraulic Control Valve (5 Function) *option
33	Ref	700-0806-4022	Hydraulic Control Valve (6 Function) *option
34	4	HSR-0023	5" Plastic Cap
#	Ref	HR-R3605437	Spread Cylinder Seal Kit (not Shown)
#	1	HR-0343	SMV Sign (not shown)
#	1	HR-2006	Tool Box (not shown)
#	Ref	HR-2008	Width Marker Decal Set

Note: When ordering parts for Energy Chain, please refer to the part number stamped on each part for accuracy

EXTENSION ARM ASSEMBLY

MODELS: 2027/30G2-6 & 7

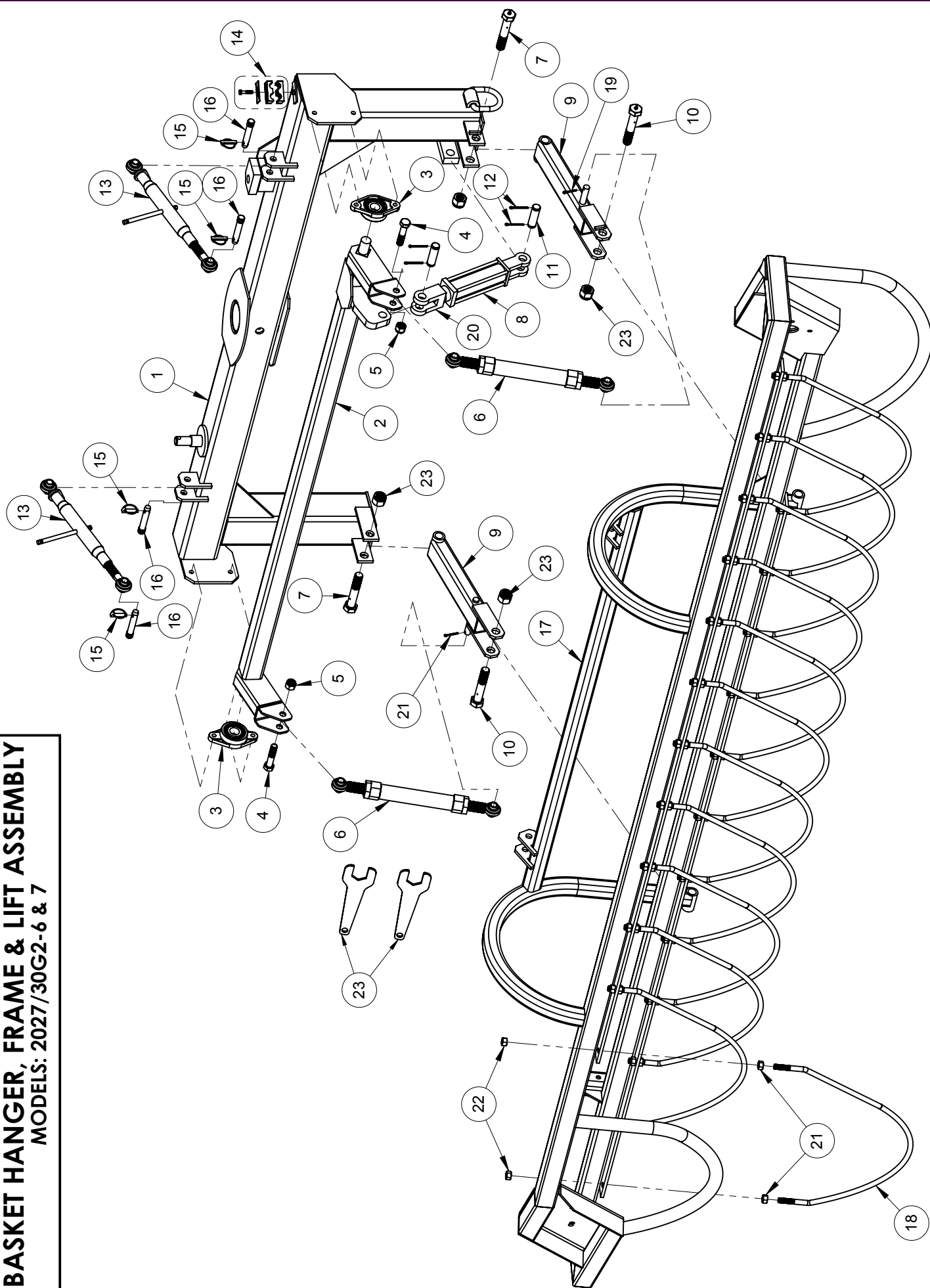


EXTENSION ARM ASSEMBLY

MODELS: 2027/30G2-6 & 7

ITEM	QTY	PART NO	DESCRIPTION
1	1	HSR-2470	Wheel Tower Weldment - RH
1	1	HSR-2471	Wheel Tower Weldment - LH
2	2	HR-2510-1	Wheel Tower Receiver (with 8 13/16" wide hole spacing)
3	1	HSR-2100-1	Double Slide Weldment - RH
3	1	HSR-2101-1	Double Slide Weldment - LH
4	1	HR-2478	Basket Pivot Weldment - RH
4	1	HR-2479	Basket Pivot Weldment - LH
5	4	HR-0481	UHMW Pivot Plate
6	4	HR-0083	Spindle RTM SA3500F
7	4	HR-0082	Wheel Hub w/ Bearings & Seal RTM 2-3566F-C2-00
8	4	HR-0383	Spindle Seal National 473463
9	4	HR-0378	Inner Bearing LM501349
10	4	HR-0379	Inner Race LM501310
11	4	HR-0377	Outer Race LM67010
12	4	HR-0376	Outer Bearing LM67048
13	4	HR-0382	Spindle Washer
14	4	HR-0381	Spindle Nut 3/4" NF Slotted
15	4	HR-0384	Cotter Pin 1/8" x 2"
16	4	HR-0375	Grease Cap
17	24	HR-0380	Lug Nut 9/16" NF
18	24	ST562	9/16" NF - 2 1/4" Stud
19	4	HR-0085	Wheel
20	4	HR-0086	7.50 x 15 Smooth Tire
20	4	HR-0707	LT235/75R15 Road Tire (not shown)
21	4	HR-0704	1/2" x 3 1/2" NC Gr.5 Cap Screw w/ 1/2" Grip Nut
22	2	HR-0066A	Break Away Cylinder Mount
23	4	HR-0705	1/2" x 2 1/2" NC Gr.8 Cap Screw w/ 1/2" Grip Nut
24	2	HR-0106	2" x 8" ASAE Hydraulic Cylinder
25	4	HR-0317	Hydraulic Cylinder Pin
26	12	HR-0706	3/4" x 2 1/2" NC Gr.8 Cap Screw w/ 3/4" Grip Nut
27	2	HR-0472	Washer Plate
28	2	G-1.5SAEFW	1 1/2" SAE Flat Washer
29	2	HR-0473	1 1/2" SAE Nylock
30	2	HSR-0015	5" Plastic Cap (Modified)
32	2	HR-0314	Hydraulic Cylinder Rod Clevis
**	4	HR-0082	Wheel Hub w/ Bearings & Seal RTM 2-3566F-C2-00
**		HR-0313-1	Hydraulic Cylinder Seal Kit, (Not Shown) Spencer #661751

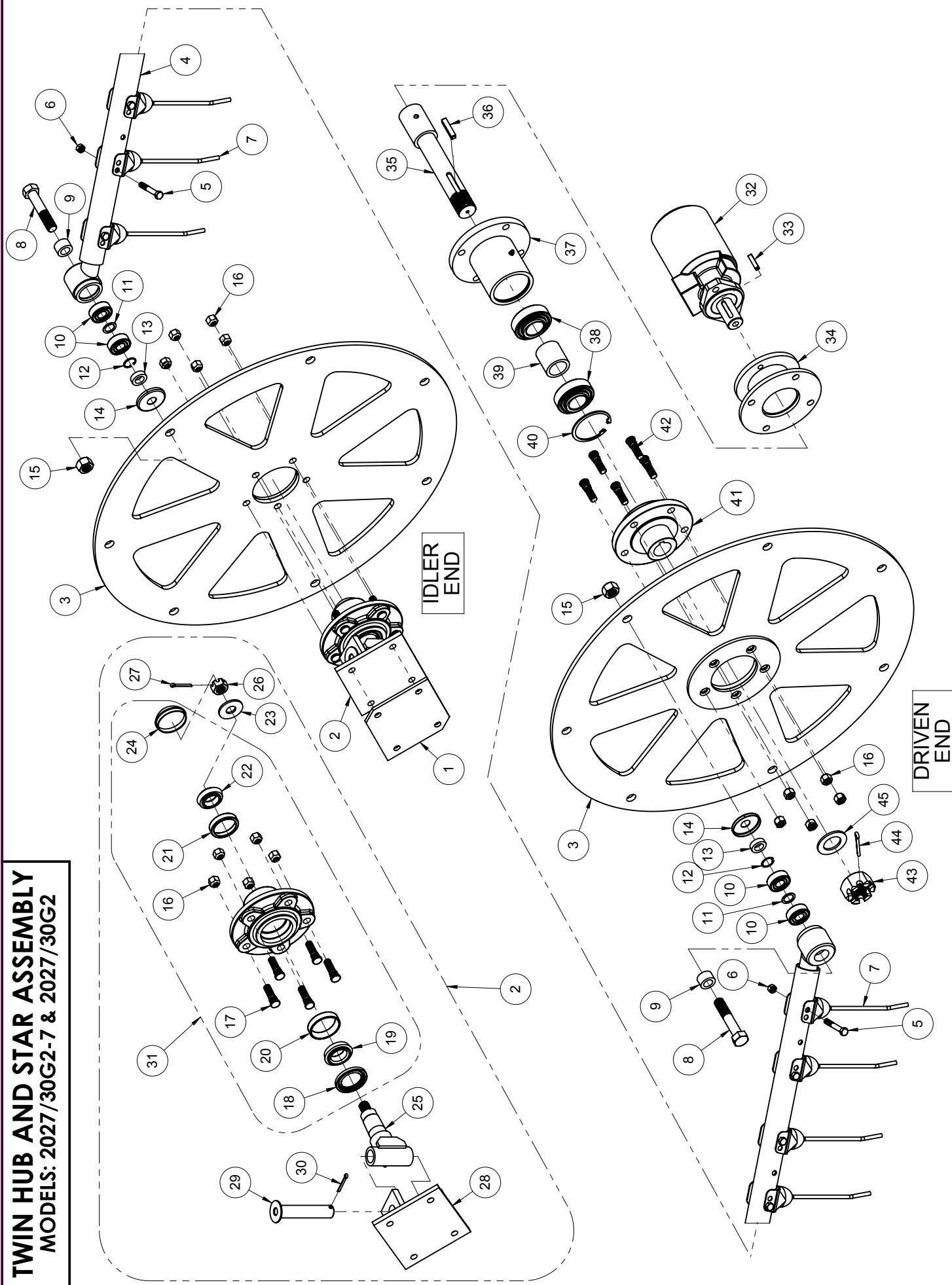
BASKET HANGER, FRAME & LIFT ASSEMBLY **MODELS: 2027/30G2-6 & 7**



BASKET HANGER, FRAME AND LIFT ASSEMBLY
MODELS: 2027/30G2-7

ITEM	QTY	PART NO	DESCRIPTION
1	1	HR-2478	Basket Pivot Weldment - RH
1	1	HR-2479	Basket Pivot Weldment - LH (Not Shown)
2	1	HR-2450-1	Suspension Axel - RH
2	1	HR-2451-1	Suspension Axel - LH (Not Shown)
3	4	HR-0232	Flange Bearing
4	4	G-75-3.5NCCS	3/4" x 3 1/2" HHCS
5	4	G-75NCHGN	3/4" Hex Grip Nut
6	4	HR-2003-B	Adjustable Link
7	4	HR-11118	Clevis Bolt, Bottom (Greasable)
8	2	HR-0107	2" x 6" Hydraulic Cylinder
9	4	HR-2113-2	Parallel Arm
10	4	HR-11118	Clevis Bolt, Top (Greasable)
11	4	HR-0317	Hydraulic Cylinder Pin
12	12	HR-0159	Cotter Pin 3/16" x 1-1/2"
13	4	HR-0200	Top Link
14	2	HR-0404	1/2" Double Hose Clamp w/ Mounting Plate
15	8	HR-0198	Lynch Pin - 7/16"
16	8	HR-0105	Pin
17	1	HR-2623-2	Basket Frame - 12' - RH
17	1	HR-2624-2	Basket Frame - 12' - LH (Not Shown)
17	Ref	HR-2621-2	Basket Frame - 10 1/2' - RH (Not Shown)
17	Ref	HR-2622-2	Basket Frame - 10 1/2' - LH (Not Shown)
18	24	HR-2630	Stripper Bar (RH & LH, 10 1/2' & 12' Basket)
19	4	HR-0703	Cotter Pin 1/4" x 1-1/2"
20	2	HR-0314	Hydraulic Cylinder Rod Clevis
21	48	G-625NCHN	5/8" NC Hex Nut
22	48	G-625NCHGN	5/8" Hex Grip Nut
23	2	HR-2004-A	Basket Adjustment Wrench
24	4	064-016-1	1" NC Nylock Nut
#	2	HR-2007	Tooth Tool
#		HR-0313	Hydraulic Cylinder Seal Kit, (Not Shown) Spencer #639572

TWIN HUB AND STAR ASSEMBLY **MODELS: 2027/30G2-7 & 2027/30G2**

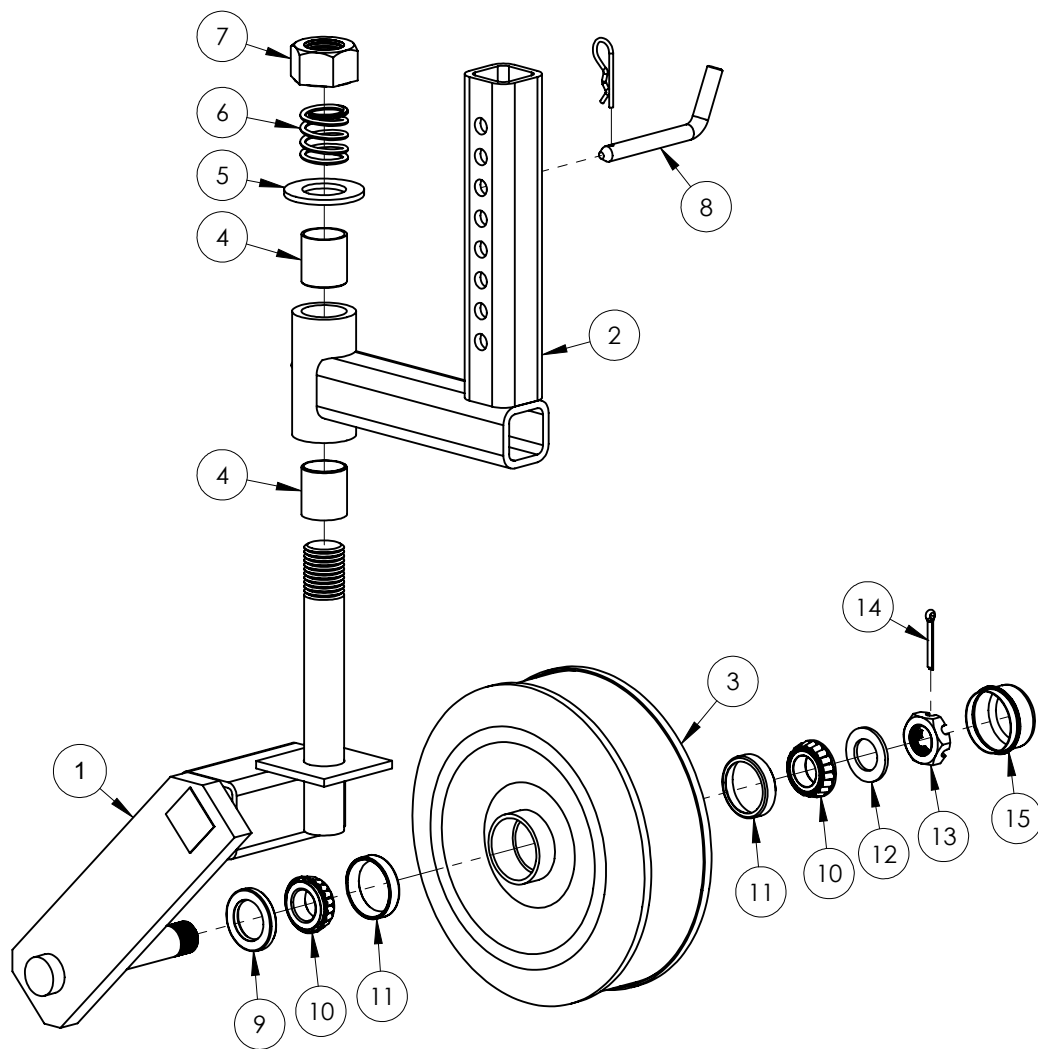


TWIN HUB AND STAR ASSEMBLY

MODELS: 2027/30G2-7

ITEM	QTY	PART NO	DESCRIPTION
1	2	HR-0647	Reinforcing Plate
2	1	HR-4162	Knuckle Assembly w/Hub - RH
2	1	HR-4163	Knuckle Assembly w/Hub - LH
3	4	HR-2640	G2 Star Wheel (7 Bar)
4	14	HR-4130	Tine Bar - 12 ft w/Bearings
4	Ref	HR-4120	Tine Bar - 10-1/2 ft w/Bearings (Not Shown)
5	350	HR-0181	3/8" x 2-1/2" HHCS
6	350	HR-0182	3/8" Lock Nut
7	175	HR-0168	Right Hand Rake Tooth
7	175	HR-0169	Left Hand Rake Tooth (Not Shown)
8*	28	HR-0176	3/4" NC x 4" HHCS
9*	28	HR-0174	Tine Bar Long Spacer
10*	56	HR-0172	Tine Bar Bearing Z9504
11*	28	HR-0184	Tine Bar Shim Washer
12*	28	HR-0173	Snap Ring
13*	28	HR-0177	Tine Bar Small Spacer
14*	28	HR-0175	Dust Shield
15*	28	HR-0178	3/4" NC Lock Nut
16	20	G-STN-509	1/2"-20 NF Lug Nut
17	10	G-ST-504	1/2"-20 NF - 2 1/4" Stud
18	2	G-SL-175	Bearing Seal (RTM SL-175)
19	2	G-LM48548	Inner Spindle Bearing LM48548
20	2	G-LM48510	Inner Bearing Race LM48510
21	2	HR-0377	Outer Bearing Race LM67010
22	2	HR-0376	Outer Spindle Bearing LM67048
23	2	HR-0382	3/4" Spindle Washer (RTM SW-750)
24	2	HR-0375	Grease Cap
25	2	HR-2652	Knuckle Spindle Weldment
26	2	HR-381	Spindle Nut 3/4" NF Slotted (RTM SN-750)
27	2	HR-0384	Cotter Pin 5/32" x 1 1/2"
28	1	HR-2650	Knuckle Base Plate – RH
28	1	HR-2651	Knuckle Base Plate – LH (Not Shown)
29	2	HR-2653	Knuckle Pin
30	2	HR-0159	Cotter Pin 3/16" x 1-1/2"
31	2	HR-2654	Hub w/Studs, Bearings and Seal
32	2	HR-0165-12	Hydraulic Motor, Heavy Duty, White #500375A5120AAAAA
32	Ref	HR-0709-12	Hydraulic Motor, Extra HD, White #500470A5120AAAAA - Option
33	2	HR-0357-12	5/16" x 1/4" Key Stock 1 1/2" Long
34	2	HR-2369	Adapter Housing
35**	2	HR-2351	Jack Shaft 1-1/4"
36**	2	HR-0356	3/8" Key Stock - 2"
37**	2	HR-2352	Bearing Housing
38**	4	HR-0355	Bearing CSA208-24
39**	2	HR-0363	Spacer
40**	2	HR-0354	Snap Ring
41**	2	HR-2361	Drive Hub Assembly w/Studs
42**	10	G-7-122	1/2"-20 NF - 2" Stud
43	2	HR-0367	1-1/2" Slotted Nut
44**	2	HR-0367-1	Cotter Pin 1/4" x 2"
45**	2	HR-0368	Machined Washer 2-1/2" OD x 1-1/2" ID X 3/16"
*	Ref	HR-4125	Tine Bar Bearing Assembly
**	2	HR-4361	Bearing Housing Assembly
	Ref	HR-0165-2	Seal Kit For all White Motors #500444001

GAUGE WHEEL ASSEMBLY

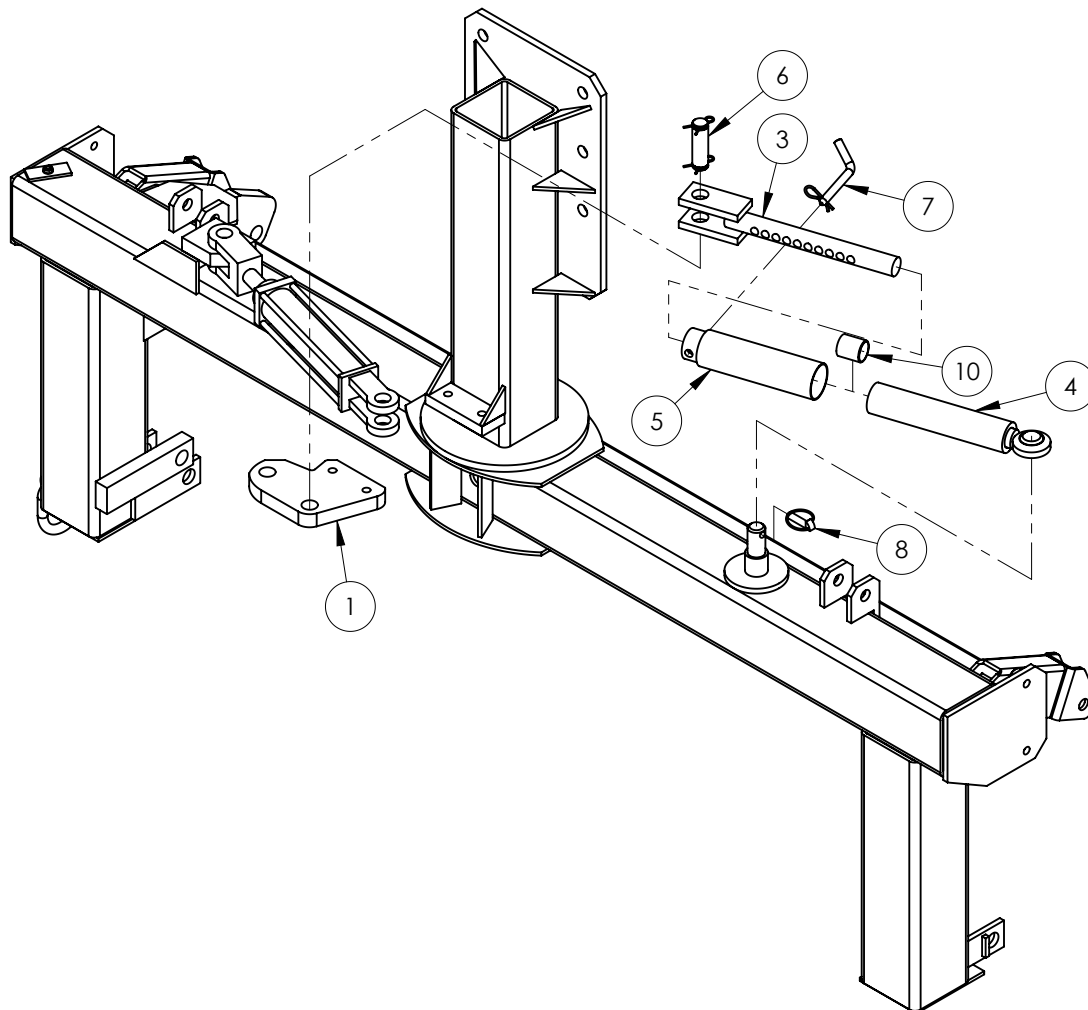


GAUGE WHEEL ASSEMBLY (optional)

HR-5612 & HR-5712

ITEM	QTY	PART NO	DESCRIPTION
1	1	HR-2458	Pivot Bracket Assembly - RH
1	1	HR-2457	Pivot Bracket Assembly - LH (not shown)
2	2	HR-2660	Pivot Arm Weldment
3	2	HR-2486	12" Steel Wheel
4	4	HR-0487	Plastic Bearing Insert
5	2	HR-0488	1-1/4" SAE Flat Washer
6	2	HR-0486	Spring
7	2	HR-0489	1-1/4" NC Nylock Nut
8	2	G-P71111	Pin
9	2	HR-0385	Seal - National 471750
10	4	HR-0386	Bearing - L44643
11	4	HR-0387	Race - L44610
12	2	HR-0402	Washer
13	2	HR-0403	Slotted Nut
14	2	HR-0159	Cotter Pin
15	2	HR-0388	Cap - 21-3

HR-5800 ANGLE STOP ASSEMBLY

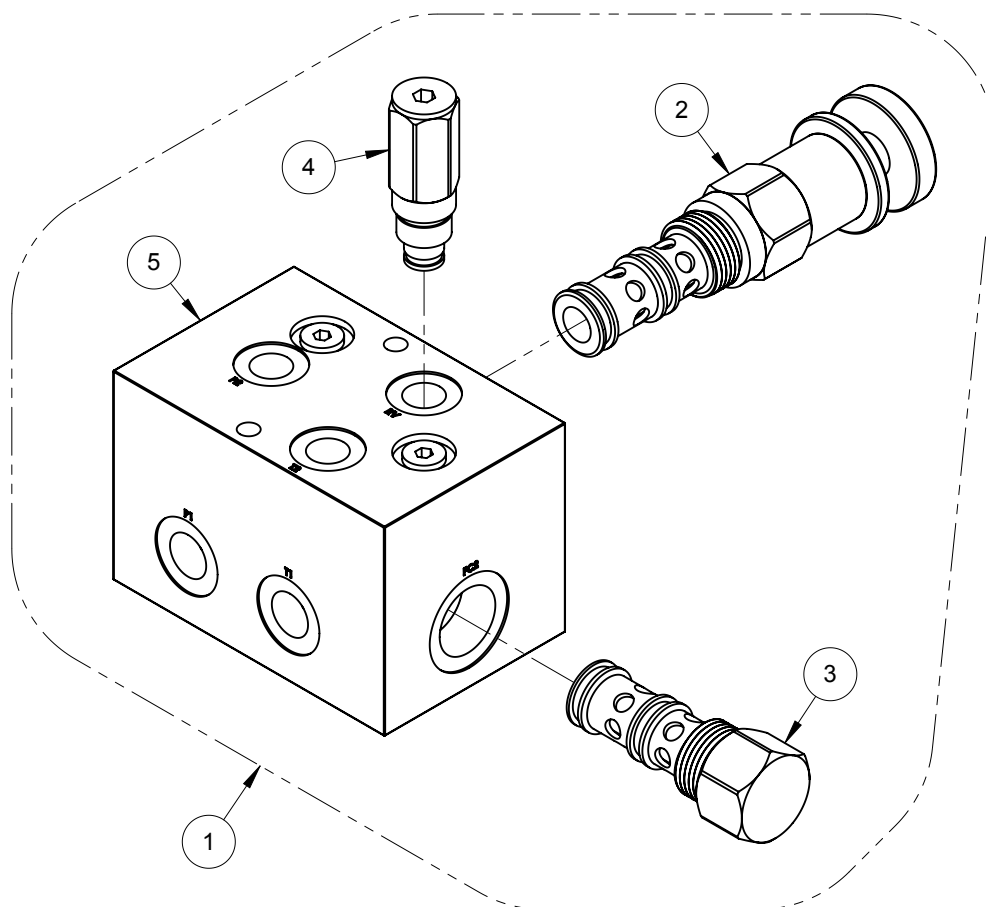


HR-5800 ANGLE STOP ASSEMBLY
FOR MODELS: 2027/30-G25 & 2027/30-G27

ITEM	QTY	PART NO	DESCRIPTION
1	2	HR-0066B	Angle Stop Mount
3	2	HR-0851	Inner Slide Shaft
4	2	HR-0852	Outer Slide
5	2	HR-0853	Stop Collar Sleeve
6	2	HR-0317	1" Pin
7	2	P71111	1/2" Pin w/Keeper
8	2	HR-0198	7/16" Lynch Pin
10	2	HR-0487	Plastic Bearing Insert

HYDRAULIC FLOW CONTROL

MODELS: 2027/30G2-6 & 7

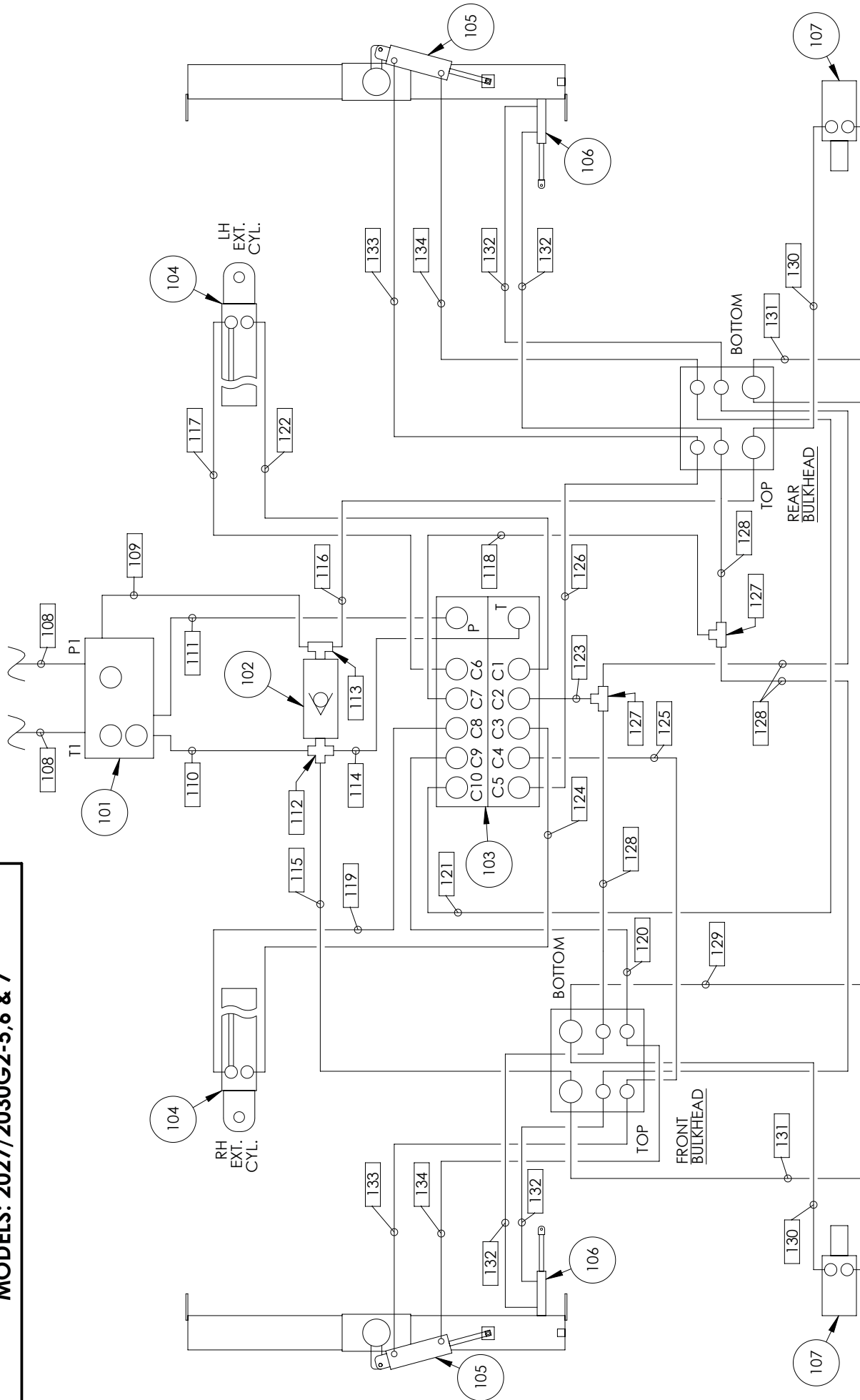


HYDRAULIC FLOW CONTROL
MODELS: 2027/30G2-6

ITEM	QTY	PART NO	DESCRIPTION
1	1	HR-0391	Hyd Flow Control Manifold w/Cartridges
2	1	HR-0392	Flow Control Cartridge, Adjustable 4 - 8GPM
3	1	HR-0393	Flow Control Cartridge, Fixed 4GPM
4	1	HR-0395	Motor Relief Valve - 2000 PSI
5	1	HR-0396	Hyd Flow Control Manifold

HYDRAULIC SCHEMATIC-5 FUNCTION

MODELS: 2027/2030G2-5,6 & 7



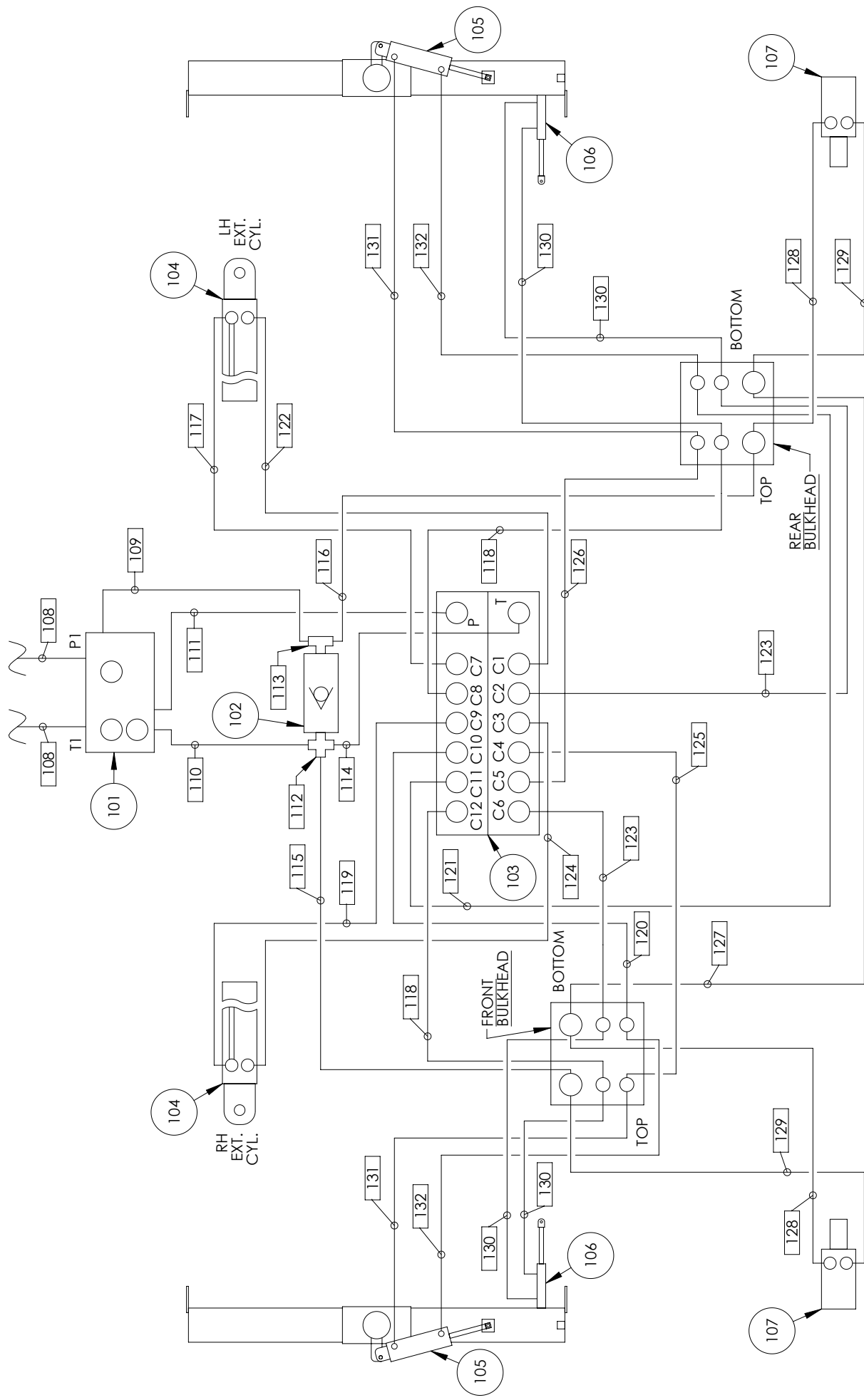
HYDRAULIC SCHEMATIC - 5 FUNCTION

MODELS: 2027/30G2-6

ITEM	QTY	PART NO	DESCRIPTION
101	1	HR-0391	Hydraulic Manifold
	1	HR-0392	Adjustable Flow Cartridge 4-8 GPM (not shown)
	1	HR-0393	Fixed Flow Cartridge 4 GPM (not shown)
	1	HR-0395	Motor Relief Valve - 2000 PSI (not shown)
102	1	HR-271-039	Check Valve
103	1	700-0805-4022	Hydraulic Control Valve (5 Function)
104	2	HR-0318-1	Spread Cylinder Without External Hydraulic Line, Ram
105	2	HR-0106	2" x 8" Hydraulic Cylinder
106	2	HR-0107	2" x 6" Hydraulic Cylinder
107	2	HR-0165-12	Hydraulic Motor, Heavy Duty, White #500375A5120AAAAA
	2	HR-0709-12	Hydraulic Motor, Extra HD, White #500470A5120AAAAA - Option
108	2	HR-3144	1/2" Hydraulic Hose - 113"
	2	HR-0276	8010-4 Pioneer Tips (not shown)
109	1	HR-3120	1/2" Hydraulic Hose - 64"
	1	HR-0306	1/2" Adapter (not shown) 6802x8x8
110	1	HR-3121	1/2" Hydraulic Hose - 58 1/2"
	1	HR-0301	1/2" Adapter (not shown) 6801x8x10
111	1	HR-3122	1/2" Hydraulic Hose - 73"
	1	HR-0305	1/2" Adapter (not shown) 6802x8x10
112	1	HR-0272	1/2" Cross Adapter - 2650-08-08-08
113	1	HR-0708-A	1/2" Tee Adapter - 6600-08-08
114	1	HR-3123	1/2" Hydraulic Hose - 11"
115	1	HR-3124	1/2" Hydraulic Hose - 73"
116	1	HR-3125	1/2" Hydraulic Hose - 70"
117	1	HR-3126-1	1/4" Hydraulic Hose - 64" For use with HR-0318-1 Spread Cylinder
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
118	1	HR-3127	3/8" Hydraulic Hose - 23 7/8"
119	1	HR-3128-1	1/4" Hydraulic Hose - 62" For use with HR-0318-1 Spread Cylinder
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
120	1	HR-3129	1/4" Hydraulic Hose - 57"
121	1	HR-3130	1/4" Hydraulic Hose - 69"
122	1	HR-3131	1/4" Hydraulic Hose - 43 1/2"
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
123	1	HR-3132	3/8" Hydraulic Hose - 20 7/8"
124	1	HR-3133	1/4" Hydraulic Hose - 63 1/2"
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
125	1	HR-3134	1/4" Hydraulic Hose - 55"
126	1	HR-3135	1/4" Hydraulic Hose - 67"
127	2	HR-0328	3/8" Tee Adapter - 2603-06-06-06-FG
128	4	HR-3136	3/8" Hydraulic Hose - 51"
129	1	HR-3137	1/2" Hydraulic Hose - 118"
130	2	HR-3138	1/2" Hydraulic Hose - 240"
131	2	HR-3139	1/2" Hydraulic Hose - 242"
132	4	HR-3140	3/8" Hydraulic Hose - 206"
133	2	HR-3141	1/4" Hydraulic Hose - 160"
134	2	HR-3142	1/4" Hydraulic Hose - 171 1/2"

HYDRAULIC SCHEMATIC-6 FUNCTION

MODELS: 2027/2030G2-5, 6 & 7

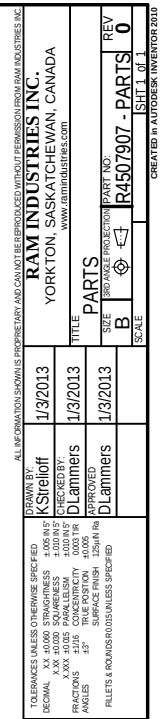


HYDRAULIC SCHEMATIC - 6 FUNCTION (optional)

MODELS: 2027/30G2-6

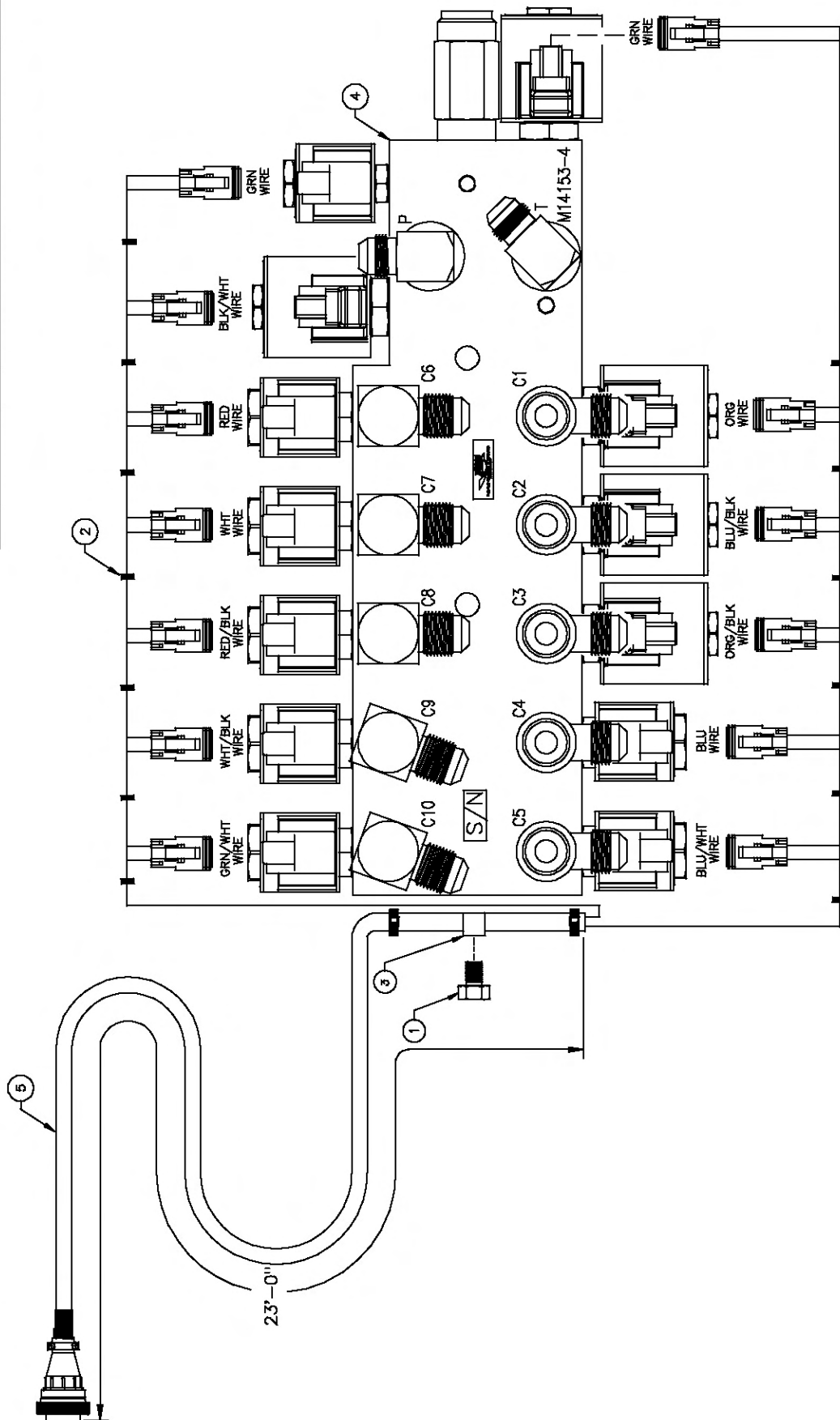
ITEM	QTY	PART NO	DESCRIPTION
101	1	HR-0391	Hydraulic Manifold
	1	HR-0392	Adjustable Flow Cartridge 4-8 GPM (not shown)
	1	HR-0393	Fixed Flow Cartridge 4 GPM (not shown)
	1	HR-0395	Motor Relief Valve - 2000 PSI (not shown)
102	1	HR-271-039	Check Valve
103	1	700-0806-4022	Hydraulic Control Valve (6 Function) *option
104	2	HR-0318-1	Spread Cylinder Without External Hydraulic Line, Ram
105	2	HR-0106	2" x 8" Hydraulic Cylinder
106	2	HR-0107	2" x 6" Hydraulic Cylinder
107	2	HR-0165-12	Hydraulic Motor, Heavy Duty, White #500375A5120AAAAA
	2	HR-0709-12	Hydraulic Motor, Extra HD, White #500470A5120AAAAA - Option
108	2	HR-3144	1/2" Hydraulic Hose - 113"
	2	HR-0276	8010-4 Pioneer Tips (not shown)
109	1	HR-3120	1/2" Hydraulic Hose - 64"
	1	HR-0306	1/2" Adapter (not shown) 6802x8x8
110	1	HR-3121	1/2" Hydraulic Hose - 58 1/2"
	1	HR-0301	1/2" Adapter (not shown) 6801x8x10
111	1	HR-3122	1/2" Hydraulic Hose - 73"
	1	HR-0305	1/2" Adapter (not shown) 6802x8x10
112	1	HR-0272	1/2" Cross Adapter - 2650-08-08-08
113	1	HR-0708-A	1/2" Tee Adapter - 6600-08-08
114	1	HR-3123	1/2" Hydraulic Hose - 11"
115	1	HR-3124	1/2" Hydraulic Hose - 73"
116	1	HR-3125	1/2" Hydraulic Hose - 70"
117	1	HR-3126-1	1/4" Hydraulic Hose - 64" For use with HR-0318-1 Spread Cylinder
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
118	1	HR-3145	3/8" Hydraulic Hose - 78"
119	1	HR-3128-1	1/4" Hydraulic Hose - 62" For use with HR-0318-1 Spread Cylinder
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
120	1	HR-3129	1/4" Hydraulic Hose - 57"
121	1	HR-3130	1/4" Hydraulic Hose - 69"
122	1	HR-3131	1/4" Hydraulic Hose - 43 1/2"
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
123	1	HR-3146	3/8" Hydraulic Hose - 77"
124	1	HR-3133	1/4" Hydraulic Hose - 63 1/2"
	1	HR-0300-1	1/4" Adapter (not shown) 6400-06-06-0
125	1	HR-3134	1/4" Hydraulic Hose - 55"
126	1	HR-3135	1/4" Hydraulic Hose - 67"
127	1	HR-3137	1/2" Hydraulic Hose - 118"
128	2	HR-3138	1/2" Hydraulic Hose - 240"
129	2	HR-3139	1/2" Hydraulic Hose - 242"
130	4	HR-3140	3/8" Hydraulic Hose - 206"
131	2	HR-3141	1/4" Hydraulic Hose - 160"
132	2	HR-3142	1/4" Hydraulic Hose - 171 1/2"

BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	PART NO.
1	1	BARREL WELDMENT	R5507907
2	1	SHAFT WELDMENT	R4207907
3	1	GLAND	R6500013
4	1	STOP TUBE	R4805437
5	1	PISTON	R6400045
6	1	LOCKNUT, 3/4-16 UNF, GRADE C	R3005005
7	1	SEAL, PISTON, PSP-A, #330, 2.500	R3500066
8	1	SEAL, O-RING, NBR70A, #210, 0.750 x 1.000 x 0.125	R3503210
9	1	ROD SEAL, U-CUP, 1.250 x 1.625 x 0.313	R3501011
10	1	SEAL, O-RING, NBR70A, #330, 2.125 x 2.500 x 0.188	R3503330
11	1	SEAL, BACK-UP, URETHANE, #330, 2.125 x 2.500 x 0.055	R3508330
12	1	SEAL, WIPER, CASDED, 1.250 x 1.688 x 0.188, NITRILE	R3506016



PARTS LIST

NA	PART NUMBER	QTY	PART DESCRIPTION
1	212-025	1	BOLT 5/16-18X0.75
2	214-002	16	CABLE TIE BLK 8.5"
3	255-026	1	LOOM CLAMP .50"ID
4	302-861	1	MANI ASSY 0805 5DA OPN E-INTG DTR 12V RV WP6801-6 PT6801-8
5	304-813	1	HRN 1500N 18GA AMP PLUG 16P(15)3DTP 2P(2) 23'

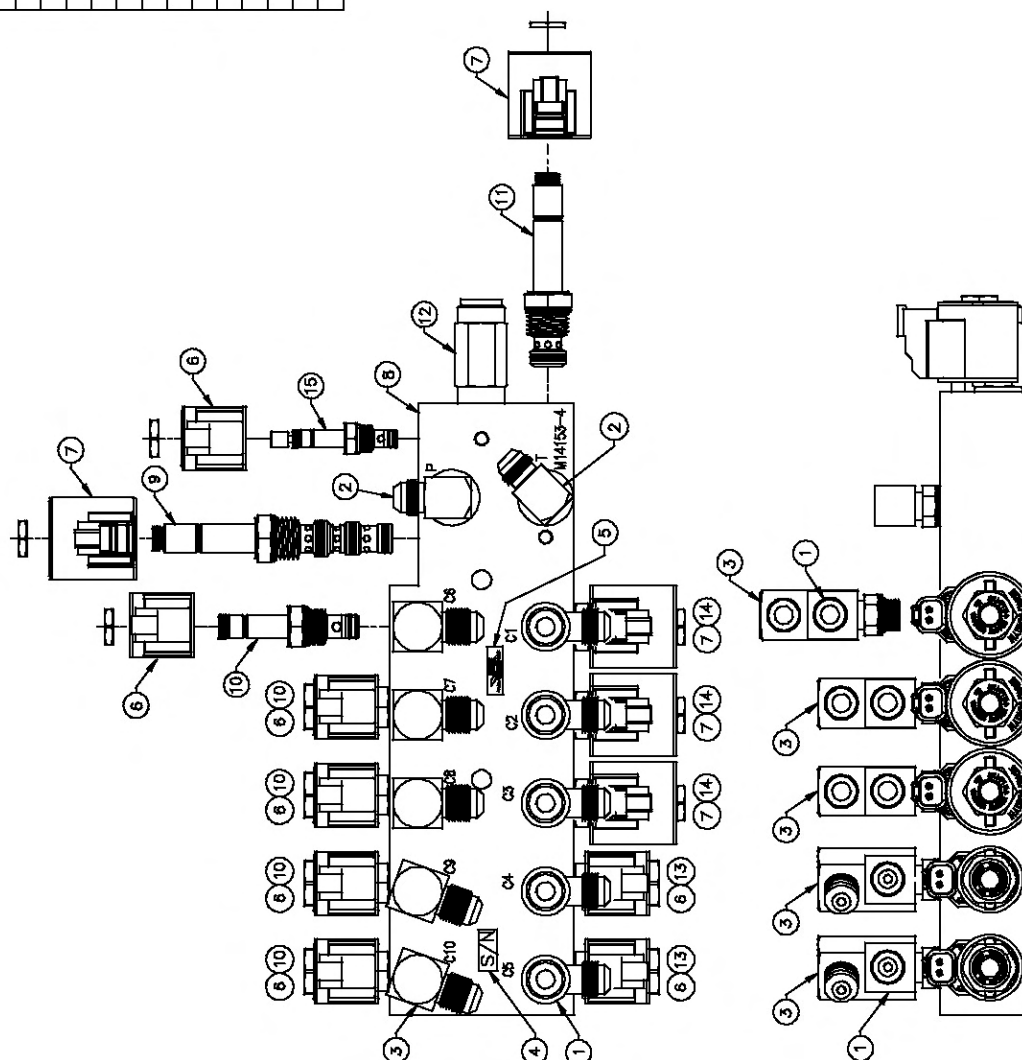


NOTE:
1. USE 3 CABLE TIES TO COIL HARNESS.

REVISIONS		UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE		FASSE VALVES	
REV	DESCRIPTION	FORM #	DATE	APPROVED	DESIGNED BY	DATE	DATE	REV	DESCRIPTION
1	RELEASED DRAWING	02-0125	12/05/02	DLJ	2 P. DECIMALS	12/04/02	12/04/02	1	MAN/HVN ASSY 0805 5DA OPN E-INTG DTR 12V RV WP6801-6 PT6801-8
A	UPDATED DRAWING	08-0027	04/13/08	DLJ	3 P. DECIMALS	12/04/02	12/04/02	2	MAN/HVN ASSY 0805 5DA OPN E-INTG DTR 12V RV WP6801-6 PT6801-8
B	UPDATED DRAWING	08-0027	08/05/08	DLJ	3 P. DECIMALS	12/04/02	12/04/02	3	MAN/HVN ASSY 0805 5DA OPN E-INTG DTR 12V RV WP6801-6 PT6801-8
THIS DRAWING IS A PROPERTY OF FASSE VALVES AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF FASSE VALVES. ALL RIGHTS ARE RESERVED BY FASSE VALVES.									FORM NO 303-058
									SCALE
									SHEET

PARTS LIST

NA	PART NUMBER	QTY	PART DESCRIPTION
1	210-015	5	FTG 6801-6-6/E-MJ-MO
2	210-017	2	FTG 6801-8-8/E-MJ-MO
3	210-228	5	FTG 68011L-6-6/E-MJ-MO
4	232-060	2	DECL S/N (SILVER)
5	232-068	1	DECAL FASSE BLK/GOLD 1" X .75" R
6	253-590	8	COIL H/F 4304012 E-8 INTG DEUT DTR 12V ZENER DIODE
7	253-593	5	COIL H/F 4304112E-10 INTG DEUT DTR 12V ZENER DIODE
8	270-093	1	MANI S14153-4 50IR AL RV
9	273-008	1	CART H/F SV10-40-0-N-00 SPL 4W
10	273-016	5	CART H/F SV08-24-0-N-00 SPL 2W
11	273-017	1	CART H/F SV10-21-0-N-00 POP 2W
12	273-527	1	CART H/F RV10-22H-0-N-35/20 RLF DIFF A
13	273-867	2	CART H/F SV08-28-0-N-00
14	273-880	3	CART H/F SV38-28-0-N-00 POP 2W
15	273-878	1	CART H/F SV08-20M-0-N-00 POP 2



FITTING ORIENTATION

C1 THRU C8-180°
C9 & C10-225°
P-0°
I-45°

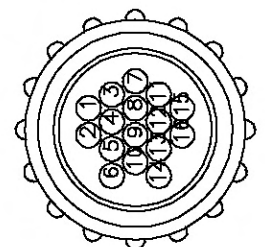
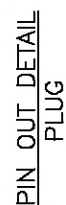


SPECIFICATIONS:

MAXIMUM PRESSURE	3000 PSI
MAXIMUM FLOW	8 GPM
PORT SIZE (P, T)	-8 SAE O-RING
PORT SIZE (ALL C)	-6 SAE O-RING
MOUNTING HOLES (2)	.406 DIA
MOUNTING HOLES (1)	5/16-18 TAPPED

[illegible]

N#	PART NUMBER	QTY	PART DESCRIPTION
1	231-008	5"	SHRINKTUBING .750
2	231-009	2"	SHRINKTUBING .500" BLK
3	231-313	2"	SHRINKTUBING .313
4	252-020	28'	CABLE 1500N 18GA
5	252-058	18'-6"	WIRE 18GA BLK
6	252-060	2'	WIRE 18GA GRN
7	255-017	1	CNTR 18 PIN PLUG
8	255-043	1	CNTR 16 PIN SHELL #17
9	255-234	15	CNTR SOCKET (GOLD) 18/18GA
10	255-805	13	CNTR DEUTSCH LOCKWEDGE 2PIN DTP
11	255-801	13	CNTR DEUTSCH 2PIN PLUG DT
12	255-878	26	CNTR DEUTSCH SOCKET 18/18GA



- 1-RED WIRE
2-ORG WIRE
3-WHT WIRE
4-BLU/BLK WIRE
5-RED/BLK WIRE
6-ORG/BLK WIRE
7-WHT/BLK WIRE
8-BLU WIRE
9-BLK/WHT WIRE
10-GRN WIRE
11-BLK WIRE
12-BLU/WHT WIRE
13-GRN/WHT WIRE
14-RED/WHT WIRE
15-GRN/BLK WIRE
16-NOT USED

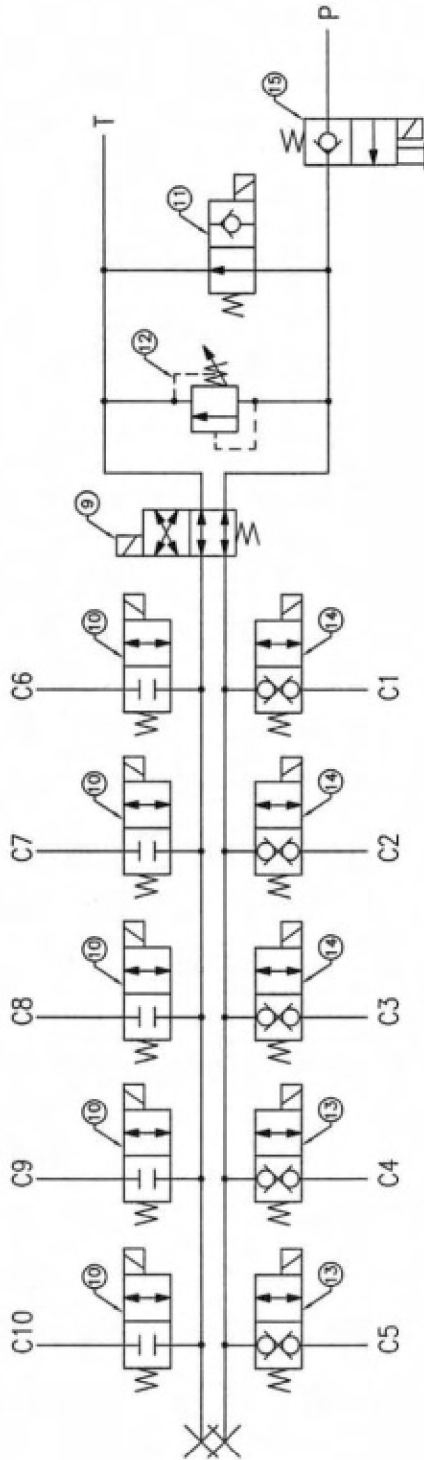
NOTES:

1. HARNESS LENGTH IS 25'
2. REMOVE 26" OF OUTER CABLE JACKET FOR SPLICING.
3. NOT SHOWN: 9

REV	DESCRIPTION	DATE	APPROVED	DATE	APPROVED	DATE	APPROVED
1	RELEASED DRAWING	09-0007	09/04/08	09/04/08	09/04/08	09/04/08	09/04/08
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SECTION		FASSE VALVES	
DESCRIPTION		SECTION 100	

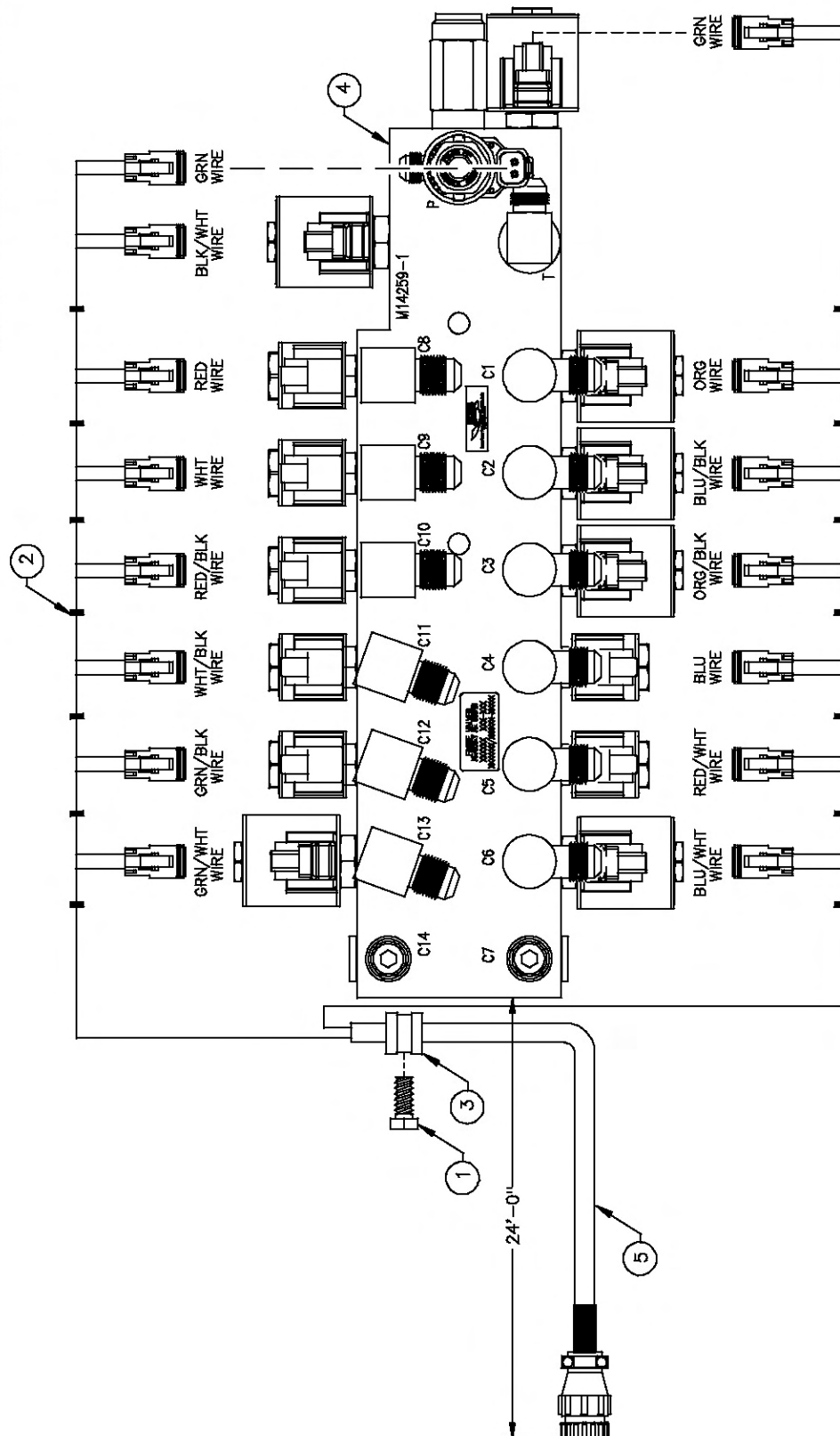
HYDRAULIC SCHEMATIC



MANUFACTURER: FASSE VALVES	DATE: / /
DESIGN: 50A DPN SS 12V	REVISION: / /
REV: WP6801-6 PT 6801-8	ENGINEER: / /
SCALE: 1:1	CHECKED: / /
SHEET NO: 302-881	DATE: / /
SHEET 2 OF 2	

PARTS LIST

QTY	PART NUMBER	PART DESCRIPTION
1	212-025	BOLT 5/16-18X0.75
16	214-002	CABLE TIE BLACK 7"
3	295-026	LOOM CLAMP .5"ID METAL/RUBR
1	302-331	MAINT ASSY 60A OPEN SS 12V RV W/PS801-6
4	312-740	HRN ASSY 15CON 18GA AMP PLUG 18T(15)15UTP 25(2) 24'

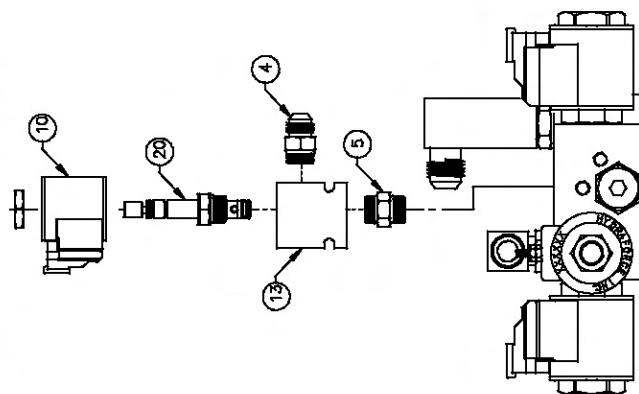


NOTES:

1. USE 3-CABLE TIES TO COIL HARNESS.

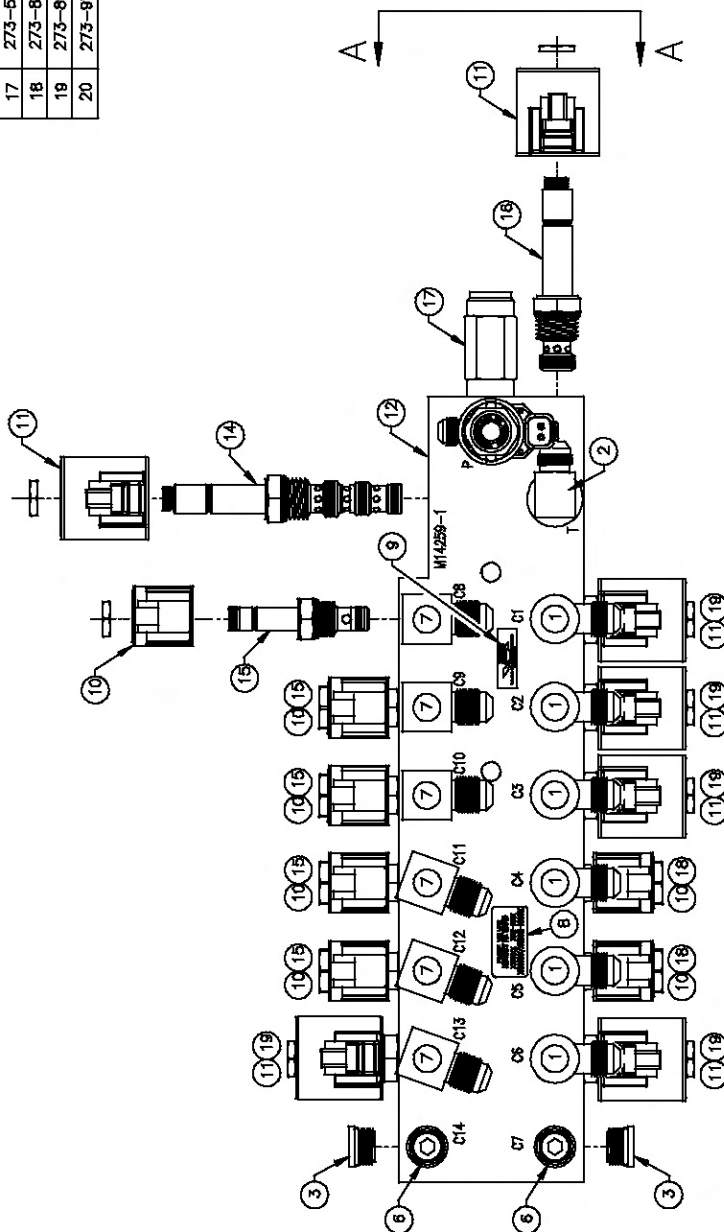
[illegible]

PARTS LIST



PARTS LIST

NA	PART NUMBER	QTY	PART DESCRIPTION
1	210-015	6	FTG 8801-6-6/E-MJ-MO
2	210-017	1	FTG 8801-8-8/E-MJ-MO
3	210-038	2	FTG 8408-8/MO HHP
4	210-117	1	FTG 8400-8-8/S-MJ-MO
5	210-121	1	FTG 8403-NMO-8/ADJ S-MO-MO
6	210-127	2	FTG 8408-8/MO HHP
7	210-228	6	FTG 8801-LL-8
8	232-050	2	DECL S/N (SILVER)
9	232-058	1	DECL GOLD/BLK 1.5 X .5
10	253-590	6	COIL H/F 4304012 E-8 INTG DEUT DTR 12V ZENER DIODE
11	253-593	7	COIL H/F 4304112E-10 INTG DEUT DTR 12V ZENER DIODE
12	270-011	1	MANI S14259-1 701R AL
13	270-051	1	BLOCK W7024680 ON/OFF-8
14	273-008	1	CART SV10-40-O-N-00
15	273-016	5	CART H/F SV08-24-O-N-00
16	273-017	1	CART SV10-21-O-N-00
17	273-627	1	CART H/F RV10-22H-O-N-35/20 RLF DIFF A
18	273-867	2	CART H/F SV08-26-O-N-00
19	273-890	5	CART H/F SV08-28-O-N-00
20	273-879	1	CART H/F SV08-20W-O-N-00

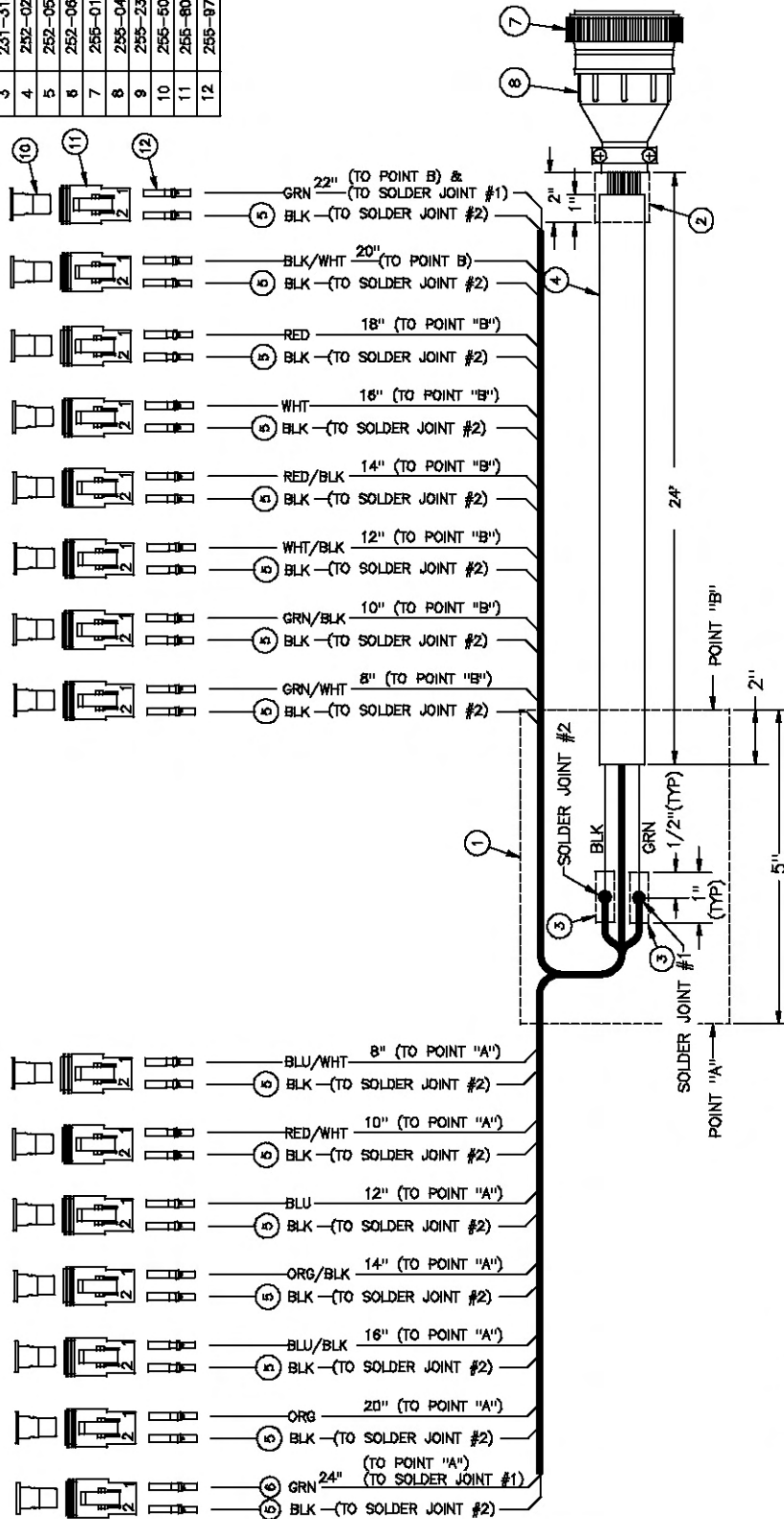


VIEW A-A

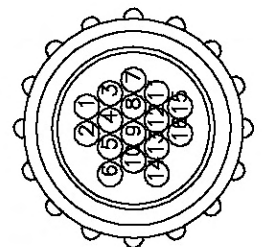
REF	DESCRIPTION	REVISIONS				ISSUE TRACKER	ISSUES	REMARKS	DATE	SEAL/STATUS	DATE	STATUS
01	UNLASED DRAWING	Q1	01/24/04	UNREVIEWED	Q1	01/24/04	UNREVIEWED	Q1	01/24/04	UNREVIEWED	Q1	01/24/04
02	272-302 W/IN 272-300	Q2	03/05/04	03/05/04	Q2	03/05/04	03/05/04	Q2	03/05/04	03/05/04	Q2	03/05/04
03	UNLASED DRAWING	Q3	03/05/04	03/05/04	Q3	03/05/04	03/05/04	Q3	03/05/04	03/05/04	Q3	03/05/04

PARTS LIST

NA	PART NUMBER	QTY	PART DESCRIPTION
1	231-008	5"	SHRINKTUBING .750
2	231-009	2"	SHRINKTUBING .500" BLK
3	231-313	2"	SHRINKTUBING .313
4	252-020	28'	CABLE 1500N 18GA
5	252-058	18'-6"	WIRE 18GA BLK
6	252-060	2'	WIRE 18GA GRN
7	255-017	1	CNTR 16 PIN PLUG
8	255-043	1	CNTR 16 PIN SHELL #17
9	255-234	15	CNTR AMP SOCKET TYPE III + 16-18GA
10	255-505	15	CNTR DEUTSCH LOCKWEDGE 2PIN DTP
11	255-801	15	CNTR DEUTSCH 2PIN PLUG DT
12	255-878	30	CNTR DEUTSCH SOCKET 16/18GA



PIN OUT DETAIL PLUG



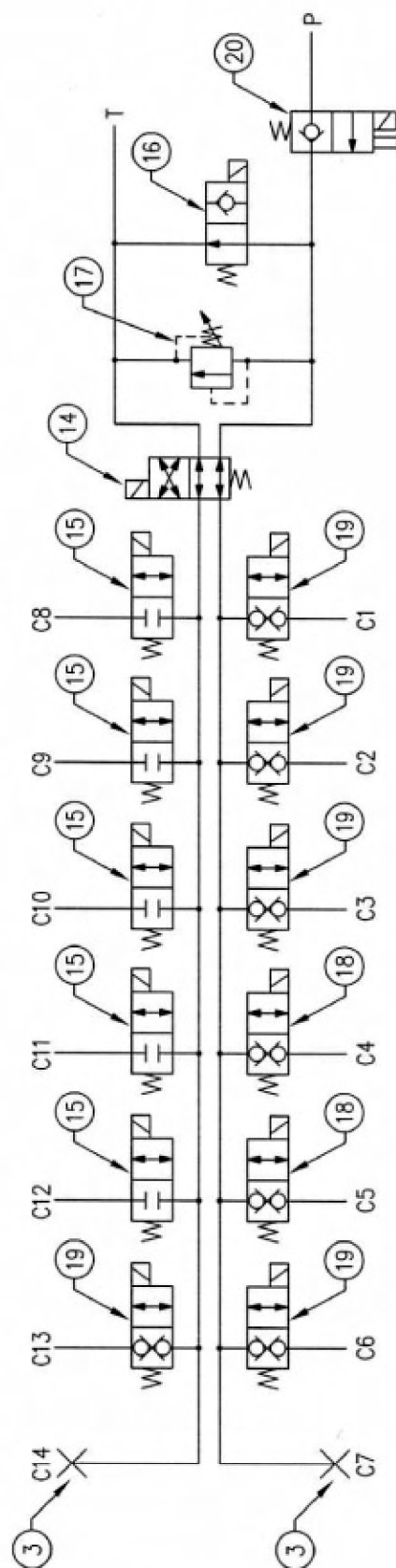
- 1-RED WIRE
- 2-ORG WIRE
- 3-WHT WIRE
- 4-BLU/BLK WIRE
- 5-RED/BLK WIRE
- 6-ORG/BLK WIRE
- 7-WHT/BLK WIRE
- 8-BLU WIRE
- 9-BLK/WHT WIRE
- 10-GRN WIRE
- 11-BLK WIRE
- 12-BLU/WHT WIRE
- 13-GRN/WHT WIRE
- 14-RED/WHT WIRE
- 15-GRN/BLK WIRE
- 16-NOT USED

NOTES:

1. HARNESS LENGTH IS 27'
2. REMOVE 28" OF OUTER CABLE JACKET FOR SPLICING.
3. NOT SHOWN (8)

FASSE VALVES		DATE	
SERIAL NO. 2004		01/08/08	
HRN ASSY 1500N 18GA AMP PLUG 16P(15)		DLP	
16DTP 2P(2) 24"		DLP	
REV FROM NO		REV	
A		312-740	
SCALE		INCHES	
APPROVED		DATE	
08-008		01/08/08	
DESCRIPTION		REV	
RELEASED DRAWING		A	
REVISIONS		DATE	
08-008		01/08/08	
DESCRIPTION		REV	
RELEASED DRAWING		A	
REVISIONS		DATE	
08-008		01/08/08	
DESCRIPTION		REV	
RELEASED DRAWING		A	

HYDRAULIC SCHEMATIC



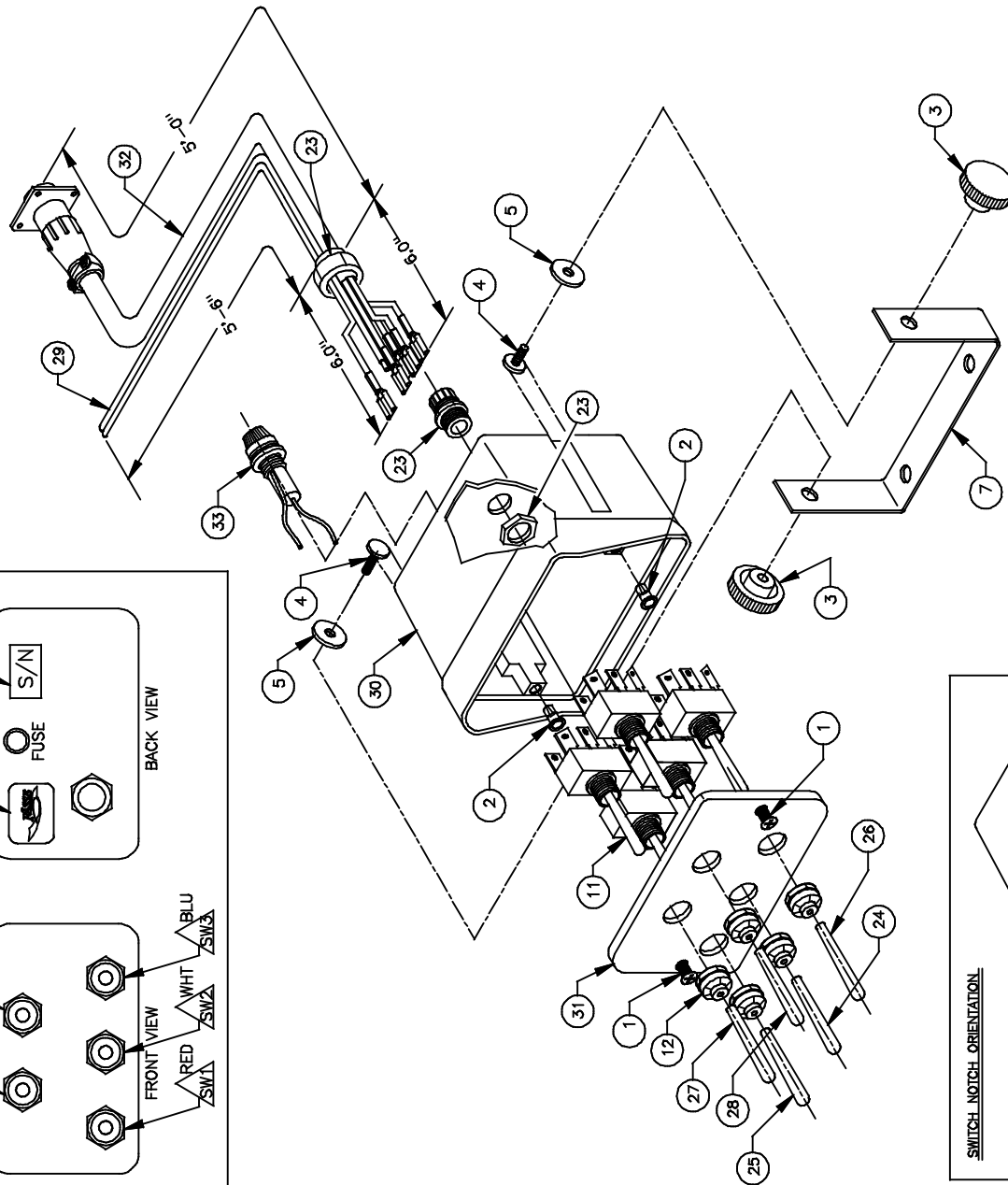
FASSE VALVES  FASSE VALVES 2801 E. 10TH AVE. #2148 DENVER, CO 80202	MANH ASSY. EDA QPN 55 1/2V RV WF6801-6 PR400-B T8801-B ON/OFF	DATE 10/04/04	SCHEDULE 04/04	BUILD NUMBER 04/04	ORDER NUMBER 04/04	ORDER DATE 10/04/04	ORDER NO. 302-331	SCALE 1/4" = 1'-0"	SHEET NO. 1 OF 2
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PARTS LIST

Nº	PART NUMBER	QTY	PART DESCRIPTION
1	212-184	2	SREW 6-32 X 3/8 OVAL HD BLK
2	212-202	2	INSERT 6-32X3/8 BRASS
3	212-215	2	KNOB 1/4-20 FEMALE
4	212-231	2	SREW WELDED 1/4-20 X .500
5	213-335	2	WASHER NYLON .257X.875X.060
6	214-002	14	CABLE TIE BLACK 7"
7	219-300	1	BRKT HSG MONITOR
8	230-057	1	BAG POLY CLR 14 X 18 2MIL W/LOGO
9	232-050	2	DECL S/N (SILVER)
10	232-058	1	DECAL FASSE BLK/GOLD 1"x.75" RND CRNR
11	250-013	5	SW TOG DPDT 3P MOM LONG
12	250-023	5	SW TOG BOOT OPN GRY
13	252-058	1'	WIRE 18GA BLK
14	252-059	1.5'	WIRE 18GA RED
15	252-060	1'	WIRE 18GA GRN
16	254-001	1	DIODE D116A2 6AMP
17	255-002	20	TRM T-TAP F PO BLU
18	255-006	5	TRM PO F INS 22-18GA
19	255-030	2	TRM SPLICE CLOSED END
20	255-070	2	TRM PO M/F
21	255-119	5	TRM PO F INS 16-14GA
22	255-285	1	TRM SPLICE CLOSED END LRG 12-10GA
23	255-710	1	STRAIN RLF HEYCO .45"-705"ID, HOLE DIA 1.115"
24	259-004	1	SW TOG GRIP VNYL WHT .187
25	259-005	1	SW TOG GRIP VNYL RED .187
26	259-015	1	SW TOG GRIP VNYL BLU .187
27	259-022	1	SW TOG GRIP VNYL YEL .187
28	259-023	1	SW TOG GRIP VNYL GRN .187
29	300-271	1	HARNES R/B WIRE /8"
30	304-401	1	ENCL DRL MNT W/FUSEHOLDER CNTR 1 1/8"IG
31	311-082	1	ENCL FP DRL MNT-5X15/32SW
32	311-801	1	HARNES 15CON 16PN(15) F /5.5"
33	319-769	1	FUSEHOLDER PANEL MOUNT ASSY 10A /.5"

NOTES:

1. USE 2-CABLE TIES TO COIL UP HARNESS
2. PUT REMAINING CABLE TIES IN BAG
3. NOT SHOWN: **6** **8**
4. CUT OFF RED/WHIT W



SWITCH NOTCH ORIENTATION

- ORIENT SWITCH NOTCHES AS SHOWN IN GRAPHIC
- USE THE ANGLE VALUES SHOWN AS REFERENCE

REVISIONS				SIGNATURES		DATE		FASSE VALVES	
REV	DESCRIPTION	FORM #	DATE	APPROVED	DESIGNED	DATE	DATE	DATE	DATE
A	RELEASED DRAWING	03-0014	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02
B	UPDATED DRAWING	03-0015	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02
C	UPDATED DRAWING	03-0017	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02	03/29/02

USED IN THESE SPECIFICATIONS:

1. 2 P. REMARKS

2. 2 P. REMARKS

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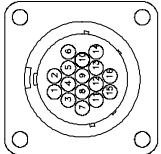
MINOR ASSY 805/RAN-C15LEPN16F

SIZE FROM NO 320-180

SCALE 1 OF 2

PART DESCRIPTION

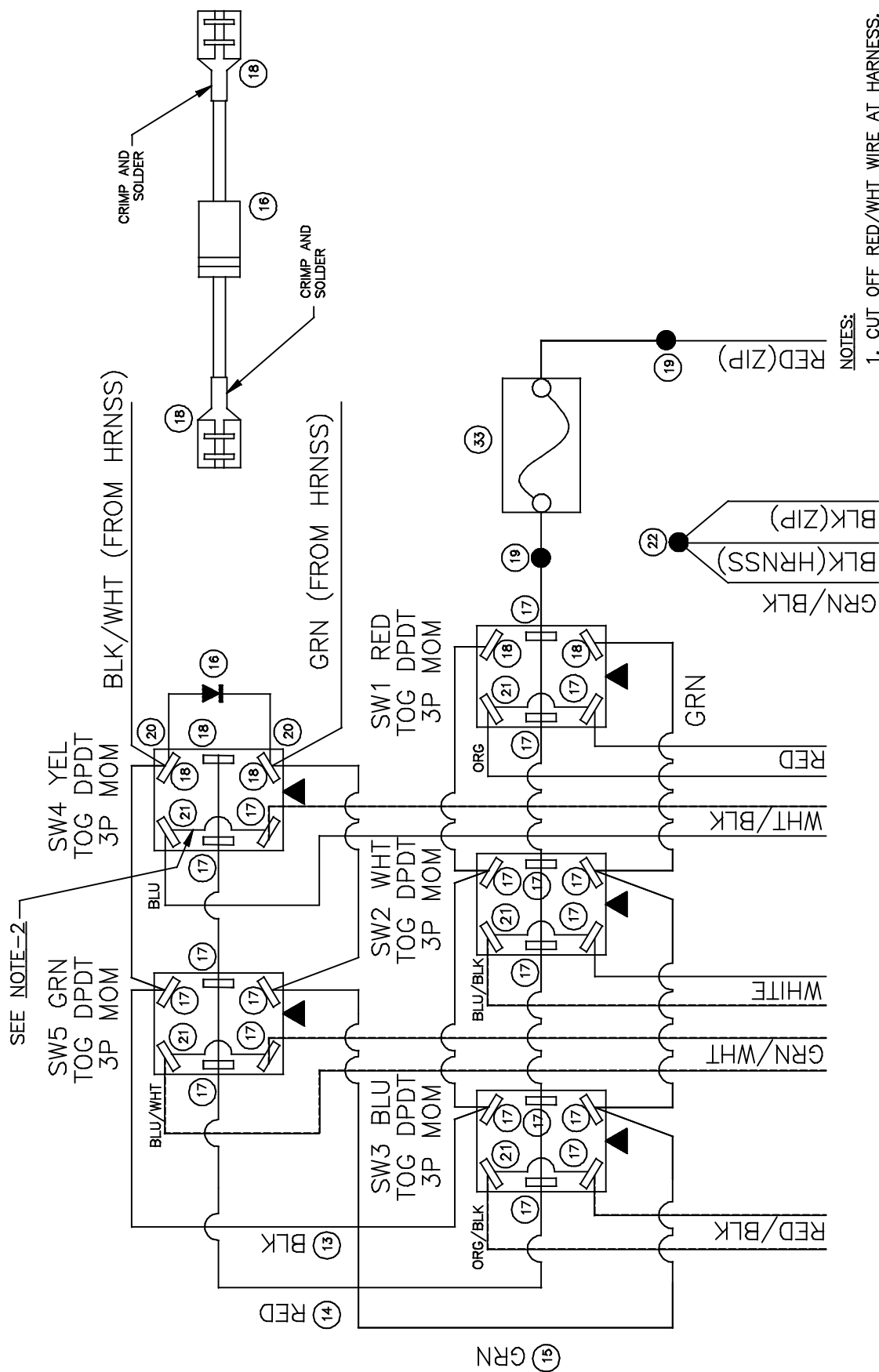
No	PART NUMBER	QTY	PART DESCRIPTION
1	231-020	2"	SHRINKTUBING .500" BLK
2	252-020	5.5'	CABLE 1500D 18GA
3	255-013	1	CNTR 16 PIN RECP'T FLANGE
4	255-023	15	CNTR PIN (GOLD) 16/18GA
5	259-043	1	CNTR 16 PIN SHELL #17



- | | | |
|----|----|-------------------|
| 1 | -- | RED WIRE |
| 2 | -- | ORANGE WIRE |
| 3 | -- | WHITE WIRE |
| 4 | -- | RED/BLACK WIRE |
| 5 | -- | BLUE/BLACK WIRE |
| 6 | -- | ORANGE/BLACK WIRE |
| 7 | -- | WHITE/BLACK WIRE |
| 8 | -- | BLUE WIRE |
| 9 | -- | BLACK/WHITE WIRE |
| 10 | -- | GREEN WIRE |
| 11 | -- | BLACK WIRE |
| 12 | -- | BLUE/WHITE WIRE |
| 13 | -- | GREEN/WHITE WIRE |
| 14 | -- | RED/WT WIRE |
| 15 | -- | GRN/BLK WIRE |
| 16 | -- | NOT USED |

[illegible]

SWITCH WIRING DIAGRAM



NOTES:

1. CUT OFF RED/WHT WIRE AT HARNESS.
2. USE SCRAP 18GA WIRE TO JUMP BETWEEN SWITCHES.

▲ = NOTCH LOCATION

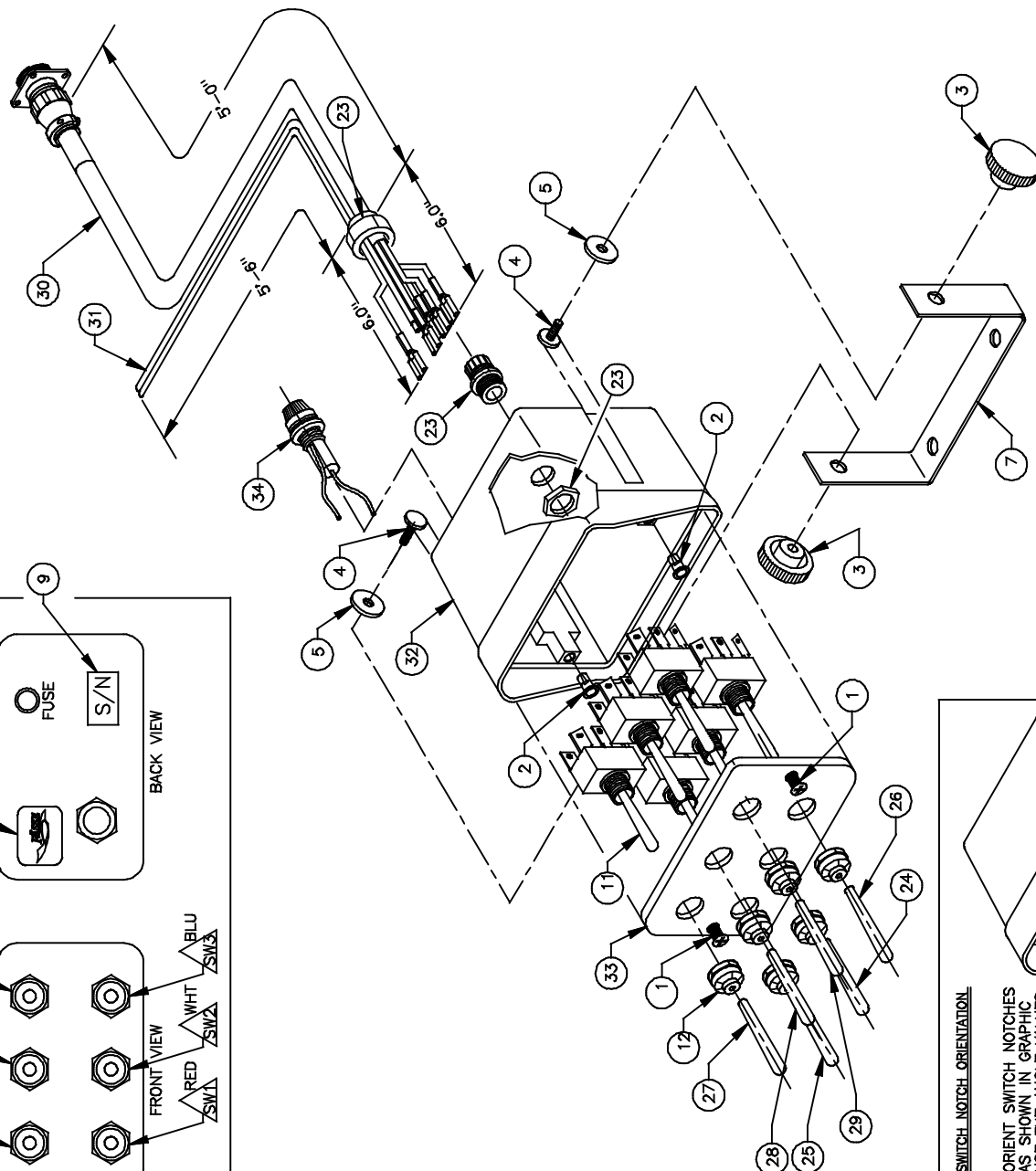
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PARTS LIST

N#	PART NUMBER	QTY	PART DESCRIPTION
1	212-184	2	SCREW 6-32 X 3/8 OVAL HD BLK
2	212-202	2	INSERT 6-32X3/8 BRASS
3	212-215	2	KNOB 1/4-20 FEMALE
4	212-231	2	SCREW WELDED 1/4-20 X .500
5	213-335	2	WASHER NYLON .257X.675X.080
6	214-002	14	CABLE TIE BLACK 7"
7	219-300	1	BRKT HSGN MONITOR
8	230-057	1	BAG POLY CLR 14 X 18 2MIL W/LOGO
9	232-050	2	DECL S/N (SILVER)
10	232-058	1	DECAL FASSE BLK/GOLD 1"X.75" RND CRNR
11	250-013	6	SW TOG DPDT 3P MOM LONG
12	250-023	6	SW TOG BOOT OPN GRY
13	252-058	1'	WIRE 18GA BLK
14	252-059	1.5'	WIRE 18GA RED
15	252-060	1'	WIRE 18GA GRN
16	254-001	1	DIODE D116A2 6AMP
17	255-002	25	TRM T-TAP F PO BLU
18	255-006	5	TRM PO F INS 22/18GA
19	255-030	2	TRM SPLICE CLOSED END
20	255-070	2	TRM PO M/F 16-14GA
21	255-119	6	TRM PO F INS 16-14GA
22	255-285	1	TRM SPLICE CLOSED END LRG 14-16GA
23	255-710	1	STRAIN RLF HEYCO .45"--.705"ID, HOLE DIA 1.115"
24	259-004	1	SW TOG GRIP VNYL WHT .187
25	259-005	1	SW TOG GRIP VNYL RED .187
26	259-015	1	SW TOG GRIP VNYL BLU .187
27	259-022	1	SW TOG GRIP VNYL YEL .187
28	259-023	1	SW TOG GRIP VNYL GRN .187
29	259-027	1	SW TOG GRIP VNYL GRY .187
30	300-072	1	HRN 150ON 18GA AMP SQLRCPT 16P(15) 5'
31	300-271	1	HARNES R/B WIRE /6'
32	304-400	1	ENCL DRILL MNTBRX FH-1 1/8"Ø
33	308-001	1	ENCL DRILL FP MNTR SW6 L00261
34	319-769	1	FUSEHOLDER PANEL MOUNT ASSY 10A /5'

NOTES:

1. USE 2-CABLE TIES TO COIL UP HARNESS
2. PUT REMAINING CABLE TIES IN BAG
3. NOT SHOWN: (6)(8)



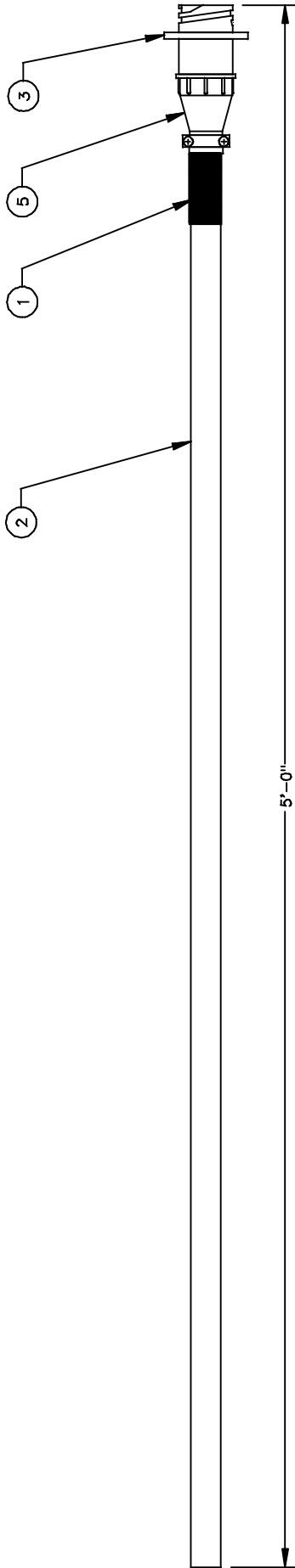
SWITCH NOTCH ORIENTATION

- ORIENT SWITCH NOTCHES AS SHOWN IN GRAPHIC
- USE THE ANGLE VALUES SHOWN AS REFERENCE

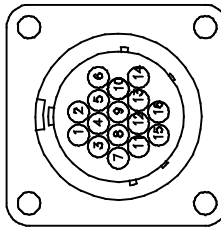
[illegible]

PARTS LIST

Nº	PART NUMBER	QTY	PART DESCRIPTION
1	231-007	2.0"	SHRINKTUBING .625
2	252-020	5'	CABLE 15COND 18GA
3	255-013	1	CNTR 16 PIN RECPT FLANGE
4	255-023	15	CNTR PIN (GOLD) 16/18GA
5	255-043	1	CNTR 16 PIN SHELL #17



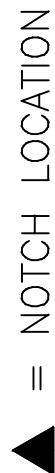
PIN OUT DETAIL



- 1 --- RED WIRE
- 2 --- ORANGE WIRE
- 3 --- WHITE WIRE
- 4 --- BLUE/BLACK WIRE
- 5 --- RED/BLACK WIRE
- 6 --- ORANGE/BLACK WIRE
- 7 --- WHITE/BLACK WIRE
- 8 --- BLUE WIRE
- 9 --- BLACK/WHITE WIRE
- 10 --- GREEN WIRE
- 11 --- BLACK WIRE
- 12 --- BLUE/WHITE WIRE
- 13 --- GREEN/WHITE WIRE
- 14 --- RED/WHITE WIRE
- 15 --- GREEN/BLACK WIRE
- 16 --- NOT USED

NOT SHOWN: 4

REV	DESCRIPTION	REVISIONS	FORM #	DATE	APPROVED	UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
1	RELEASED DRAWING		DT-0004	06/12/01	SES ENL	1. DIMENSIONS ARE IN INCHES 2. P. DIMENSIONS 3. P. DIMENSIONS 4. P. DIMENSIONS	DESIGN DRAWN ENG	
THIS DRAWING IS A PROPERTY OF FASSE VALVES. IT IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF THE EQUIPMENT ONLY. IT IS NOT TO BE REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF FASSE VALVES. ALL RIGHTS ARE RESERVED BY FASSE VALVES.								
FASSE VALVES SEVEN RIVER PARK KEARNY, NE 68848-2948								
HARNES 15CON 16PIN(15) F /5'								
SIZE FROM NO A DWG NO 300-072								
SCALE SHEET								



UNITED STATES DEPARTMENT OF COMMERCE BUREAU OF ECONOMIC ANALYSIS WASHINGTON, D. C. 20540		DATE 10/04/04		SIGNATURES SWEET DLS 10/04/04	
EXPORT CONTROL LICENSE NO. 25815 CLASS 1 15.1 15.2 15.3 15.4 15.5 15.6 15.7 15.8 15.9 15.10 15.11 15.12 15.13 15.14 15.15 15.16 15.17 15.18 15.19 15.20 15.21 15.22 15.23 15.24 15.25 15.26 15.27 15.28 15.29 15.30 15.31 15.32 15.33 15.34 15.35 15.36 15.37 15.38 15.39 15.40 15.41 15.42 15.43 15.44 15.45 15.46 15.47 15.48 15.49 15.50 15.51 15.52 15.53 15.54 15.55 15.56 15.57 15.58 15.59 15.60 15.61 15.62 15.63 15.64 15.65 15.66 15.67 15.68 15.69 15.70 15.71 15.72 15.73 15.74 15.75 15.76 15.77 15.78 15.79 15.80 15.81 15.82 15.83 15.84 15.85 15.86 15.87 15.88 15.89 15.90 15.91 15.92 15.93 15.94					
FEDERAL BUREAU OF INVESTIGATION WASHINGTON, D. C. 20535 TEL: 202-755-2248		FBI FEDERAL BUREAU OF INVESTIGATION WASHINGTON, D. C. 20535 TEL: 202-755-2248		FBI FEDERAL BUREAU OF INVESTIGATION WASHINGTON, D. C. 20535 TEL: 202-755-2248	
MNR TOG6-5'-SQFLRCP116P(15)		DNR NO		DNR NO	
320-245		SHEET 2		OF 2	



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