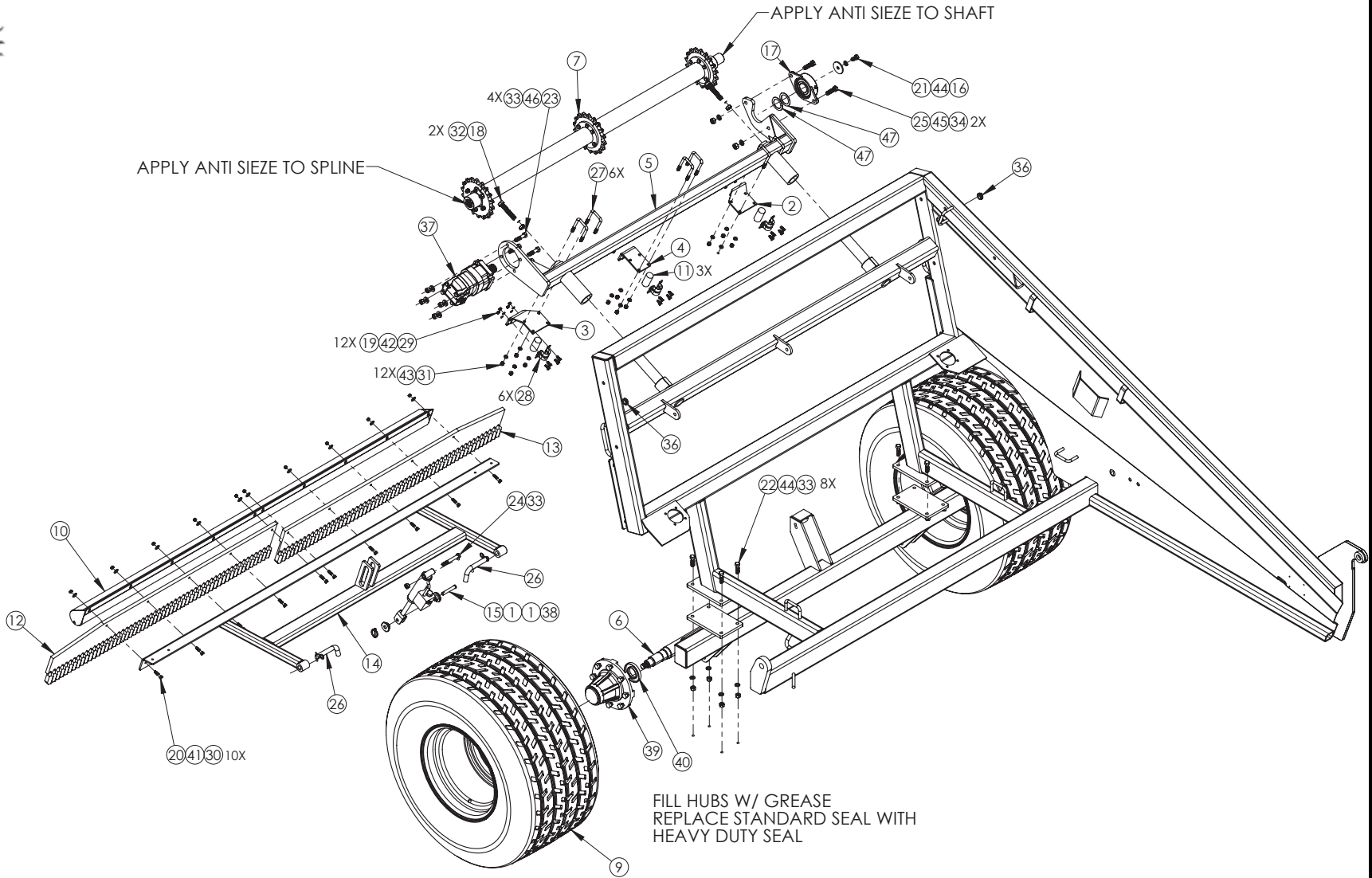


PART LIST SECTION INDEX

Contact and Ordering Information.....	P-3
Rear Axle and Groomer group.....	P-4 and P-5
Chain and Flight group.....	P-6
Shaft Assembly	P-7
Screen group.....	P-8 and P-9
Tanks and Front End group.....	P-10 and P-11
Shields group.....	P-12 and P-13
Boom and Hopper group.....	P-14 and P-15
Three Point Adapter group.....	P-16 and P-17
Control and Electrical group.....	P-18 and P-19
High Lift hydraulic group.....	P-20 and P-21
Main Circuit hydraulic group.....	P-22 and P-23



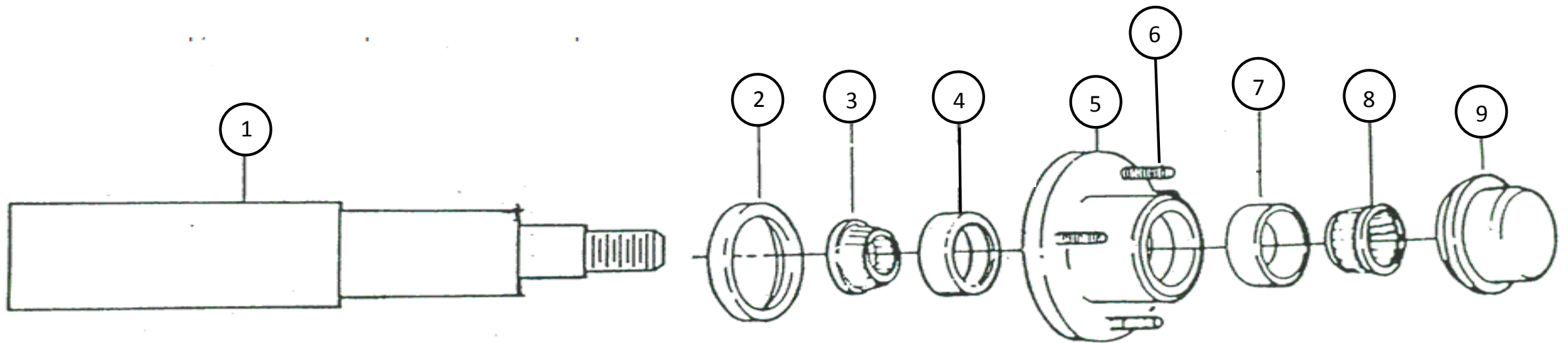
REAR AXLE AND GROOMER LEGEND

ITEM #	QTY.	PART #	DESCRIPTION
1	2	450183	BUSHING, GROOMER TENSION
2	1	460086	WLD; ROCK DEFLECTOR LH
3	1	460087	WLD: ROCK DEFLECTOR RH
4	1	460088	WLD: ROCK DEFLECTOR CTR
5	1	460096	MT, REAR SHAFT 4600
6	1	460098	AXLE WELDMENT 4600
7	1	460150	ASSY; SHAFT, REAR CONV SPLIT
8	1	460163	MAIN FRAME: 4600
9	2	480070	TIRE & RIM ASM: AW708
10	1	500408	GROOMER BAR ROUND
11	3	500499	ROD; ROCK KNOCKER
12	1	550124	COMB, RIGHT 5500
13	1	550125	COMB, LEFT 5500
14	1	550150	WLD: GROOMER BAR
15	1	CP0013	PIN, CLEVIS MOD 1/2 X 3
16	1	M5462	3/16 X 1/2 ID X 2-1/4 OD WASHER
17	1	P004175	BEARING: 1-3/4 FLANGE 2 BOLT
18	2	P099014	BOLT: HEX, 5/8"NC X 3-1/2" GR.5 FULL
19	12	P100403	BOLT: HEX, 1/4"NC X 3/4" GR5
20	10	P100506	BOLT: HEX, 5/16" NCX 1 1/2"GR5
21	1	P100804	BOLT: HEX 1/2"-13 X 1"
22	8	P100807	BOLT: HEX 1/2-13 X 1-3/4"
23	4	P100809	BOLT: HEX 1/2-13 X 2-1/4"
24	1	P100815	BOLT: HEX, 1/2-13 NC X 3 3/4" GR.5
25	2	P100908	BOLT: HEX, 9/16-12 NC X 2
26	2	P121200	BENT HITCH PIN 3/4" X 3-1/2"
27	6	P127214	U-BOLT, 3/8 X 2 X 3.75
28	6	P128905	CLAMP, U STRAP 1.31
29	12	P155250	NUT: HEX, 1/4" TOP-LOCK
30	10	P155350	NUT: HEX, 5/16 TOP-LOCK
31	11	P155450	NUT: HEX 3/8"-16NC TOP-LOCK ZP
32	2	P155800	5/8-11 HEX JAM NUT
33	13	P155850	NUT: HEX 1/2"-13NC TOP-LOCK ZP
34	2	P155900	NUT: HEX, 9/16"-12 TOP-LOCK
35	1	P259160	CYLINDER: 1-1/2B X 4S W/CAV CH
36	2	P297625	GROMMET: 5/8 BORE
37 *	1	P353600	MOTOR: 4000 COMPACT 169-0133-001
38	1	P622604	PIN, LYNCH 3/16 X 1-1/4
39	2	P764400	HUB ASSY, 8 BOLT
40	2	P764404	SEAL, GREASE 2 ID 3.62 OD
41	10	P850105	WASHER: FLAT 5/16" ZP
42	12	P851104	WASHER: LOCK 1/4"
43	12	P851106	WASHER: LOCK 3/8" ZP
44	9	P851108	WASHER: LOCK 1/2" ZP
45	2	P851109	WASHER: LOCK 9/16"
46	4	P852608	1/2" HARD WASHER
47	2	P855525	BUSHING: MACH 18GA X 1-3/4

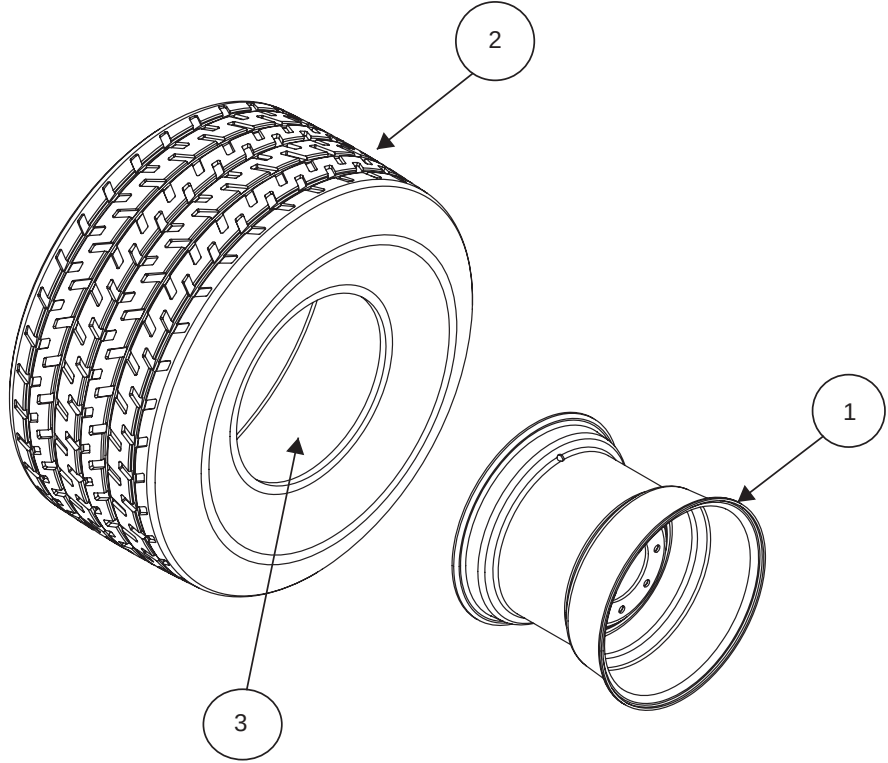
*71.P353610 SEAL KIT USED ON #37 CONVEYOR MOTOR P353600

Rear hub assembly 4600

- 1) 71.P765300 Spindle 2.12
- 2) 71.P764404 Seal
- 3) 71.P764408 Bearing 1.796 ID / bore
- 4) 71.P764403 Race
- 5) 71.P764405 Bare hub only
- * 71.P764400 Complete hub – contains items #3, 4, 5, 7, 8
- 6) 71.P764406 Wheel bolt 9/16 x 1-3/4
- 7) 71.P764402 Race
- 8) 71.P764407 Bearing 1.375 ID / bore
- 9) 71.P764401 Dust cap



PART NO.
480070



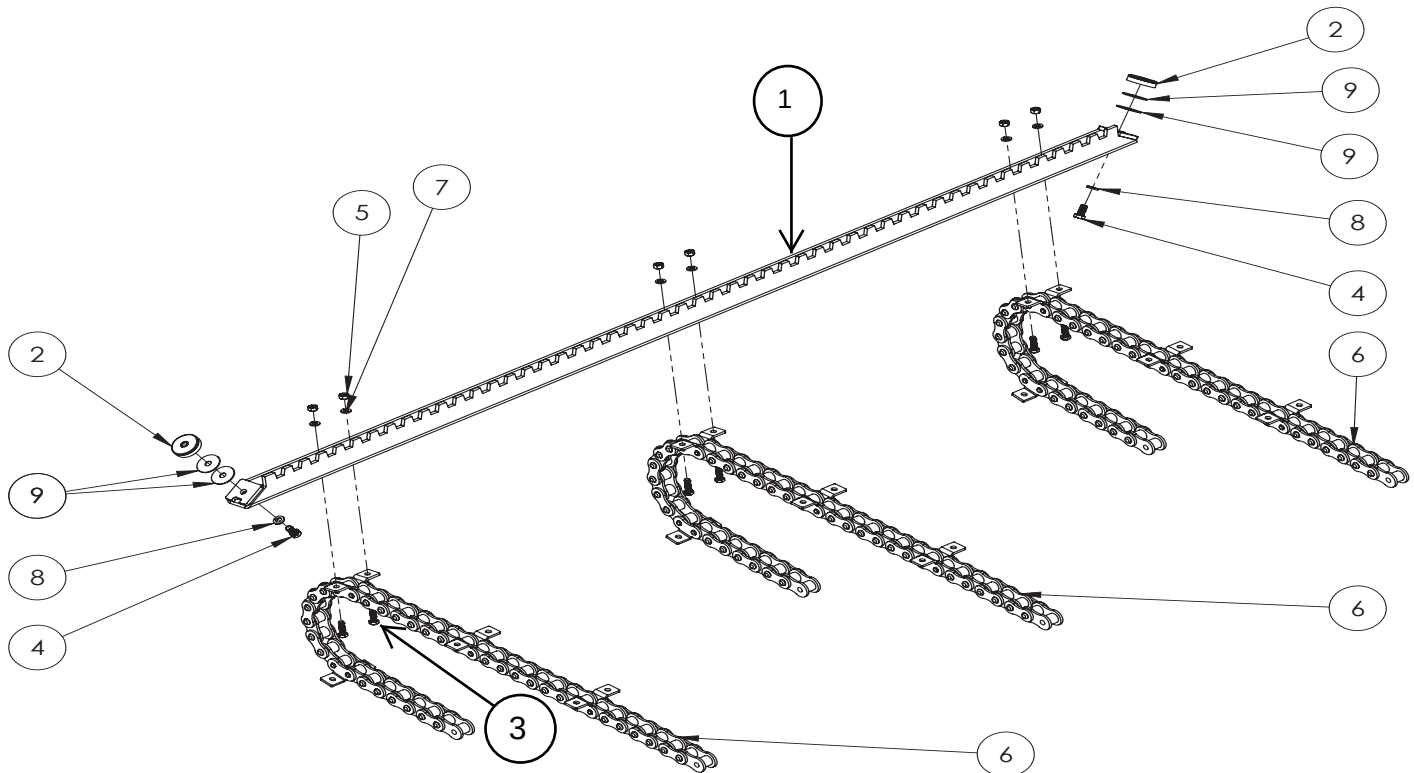
COMPLETE TIRE / WHEEL ASSEMBLY P/N: 480070

3	1	P765502	TUBE: INNER
2	1	P765500	TIRE: 500/50-17 AW708
1	1	P765501	RIM: 16 X 17
ITEM	QTY.	PART NUMBER	DESCRIPTION



DRAWN BY LEM	UNLESS OTHERWISE NOTED TOLERANCES ON DECIMALS FRACTIONS ANGLES .XX±.060 ±1/32 ±1° .XXX±.030		
DATE 1-8-09			
DO NOT SCALE			
TITLE TIRE & RIM ASM: AW708		PART NO.	
		480070	

#100 CONVEYOR CHAIN AND FLIGHT SCHEMATIC



ITEM	QTY	PART NO	DESCRIPTION
1	27	460136	WLDT: FLIGHT BLADE 4600, 2.12
2	54	470130	FLIGHT PUCK
3	162	P100504	BOLT: HEX, 5/16" NC X 1" GR5
4	54	P100603	BOLT: HEX, 3/8"NC X 3/4" GR5
5	162	P155350	NUT: HEX, 5/16 TOP-LOCK
6	3	P632140	CHAIN: 100K1 x 219 P ARMOR
6A	REF	P632142	LINK: KI CONNECTOR
7	162	P851105	WASHER: LOCK 5/16"
8	54	P851106	WASHER: LOCK 3/8" ZP
9	108	P852015	WASHER: FLAT 3/8" FENDER

CHAIN REPAIR ITEMS:

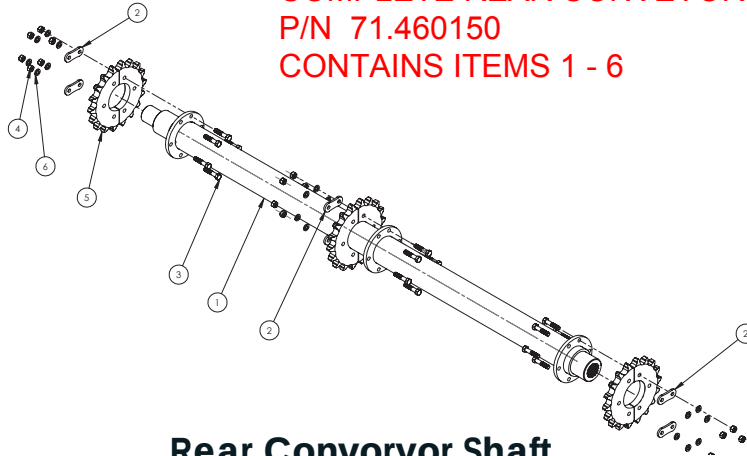
71.P632143 #100 K1 ATTACHMENT LINK

71.P632142 MASTER CONNECTING LINK

71.P632141 1/2 LINK (OFFSET)

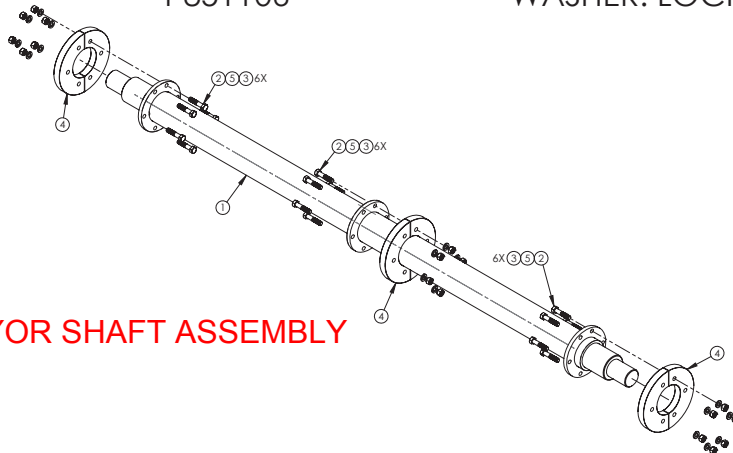
#100 CONVEYOR CHAIN FRONT / REAR SHAFT ASSEMBLY

COMPLETE REAR CONVEYOR SHAFT ASSEMBLY
P/N 71.460150
CONTAINS ITEMS 1 - 6



Rear Convoyor Shaft

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	460142	WLDT: SHAFT REAR SPLIT MT 4600
2	6	CP0055	PALTE: SPLIT SPKT TIE
3	18	P100607	BOLT: HEX 3/8-16 X 1-3/4"
4	18	P155450	NUT: HEX 3/8"-16NC TOP-LOCK ZP
5	3	P691218	SPROCKET; #100A18 SPLIT
6	18	P851106	WASHER: LOCK 3/8" ZP

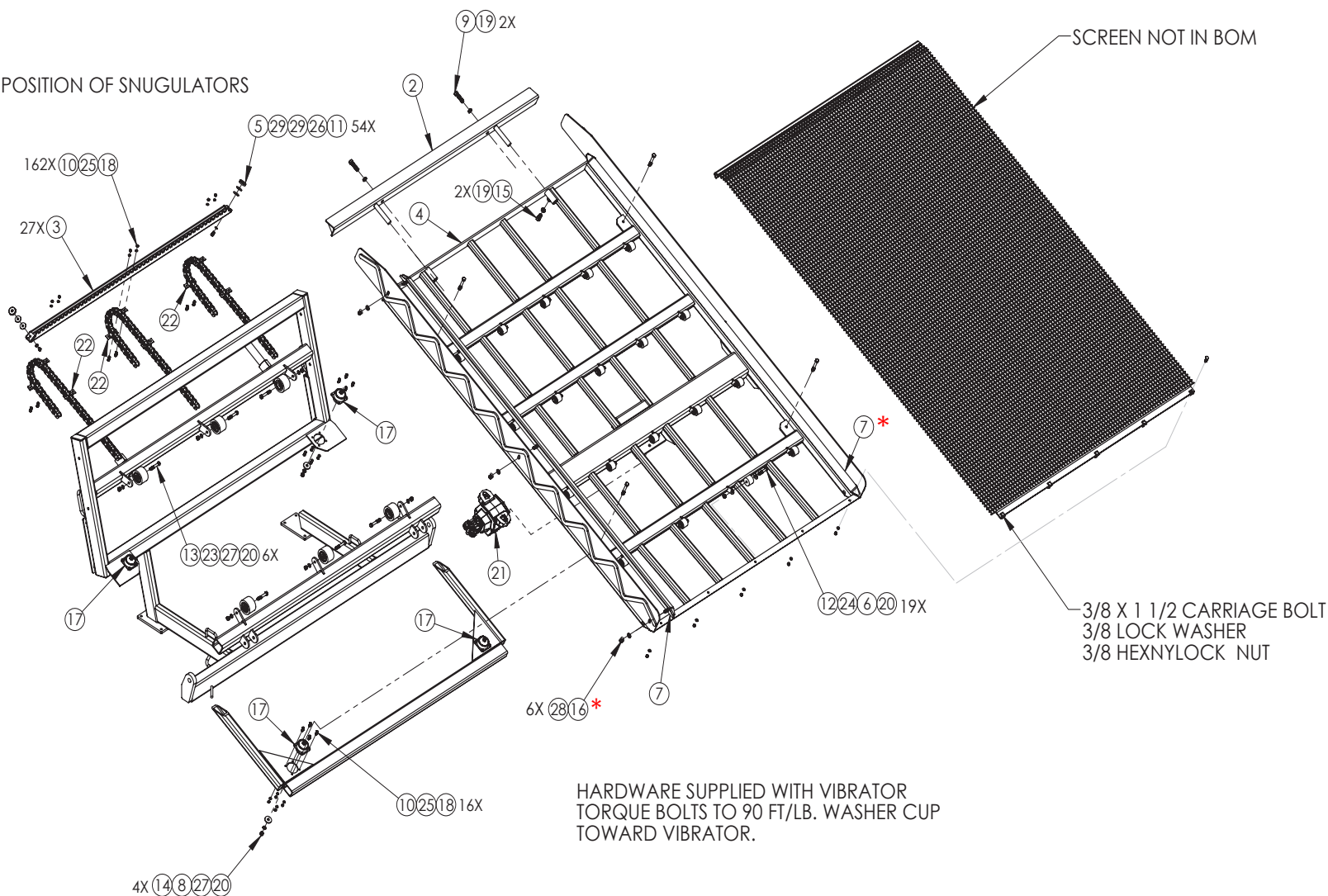


COMPLETE FRONT CONVEYOR SHAFT ASSEMBLY
P/N 71.460187
CONTAINS ITEMS 1-5

Front Convoyor Shaft

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	460143	WLDT: SHAFT FRONT SPLIT MT 4600
2	18	P100607	BOLT: HEX 3/8-16 X 1-3/4"
3	18	P155450	NUT: HEX 3/8"-16NC TOP-LOCK ZP
4	3	P693000	PLATE: CHAIN IDLER 100-18
5	18	P851106	WASHER: LOCK 3/8" ZP

NOTE POSITION OF SNUGULATORS



SCREEN LEGEND

<u>ITEM</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	1	460120	SCREEN ASSY; 3/4 HI RISE 4600
2	1	460134	SCREEN TENSIONER 72IN
3	27	460136	WLDT: FLIGHT BLADE 4600, 2.12
4	1	460180	WLDT: SCREEN FRAME 4600
5	54	470130	FLIGHT PUCK
6	19	CP0043	RISER: SCREEN- 90 A Duro (Blue)
7*	2	CP0057*	WLDT; GLIDE RAIL 45,46, 5500*
8	4	M5009-5	3/16" X 1/2" X 1-3/4" WASHER
9	2	P099010	BOLT: HEX 5/8-11 X 2 1/2 FULL THD
10	178	P100504	BOLT: HEX, 5/16" NC X 1" GR5
11	54	P100603	BOLT: HEX, 3/8"NC X 3/4" GR5
12	19	P100810	BOLT: HEX, 1/2" X 2 1/2" GR.5
13	6	P100812	BOLT: HEX, 1/2" X 3"GR.5
14	4	P100815	BOLT: HEX, 1/2-13 NC X 3 3/4" GR.5
15	2	P101005	BOLT: HEX 5/8-11 X 1-1/4"
16*	6	P158005*	1/2-13 NYLOCK NUT *
17	4	P133065	ISOLATOR: SQ PLATFORM 283P310
18	178	P155350	NUT: HEX, 5/16 TOP-LOCK
19	4	P155800	5/8-11 HEX JAM NUT
20	29	P155850	NUT: HEX 1/2"-13NC TOP-LOCK ZP
21**	1	P358106	VIBRATOR, HYD HA4-3300#6
22	3	P632140	CHAIN: 100K1 x 220 P
23	6	P761100	SNUGULATOR, 3.5 DIA X 2.125
24	19	P850108	WASHER: FLAT 1/2" ZP
25	178	P851105	WASHER: LOCK 5/16"
26	54	P851106	WASHER: LOCK 3/8" ZP
27	10	P851108	WASHER: LOCK 1/2" ZP
28*	6	P852608*	1/2" HARD WASHER*
29	108	P852015	WASHER: FLAT 3/8" FENDER

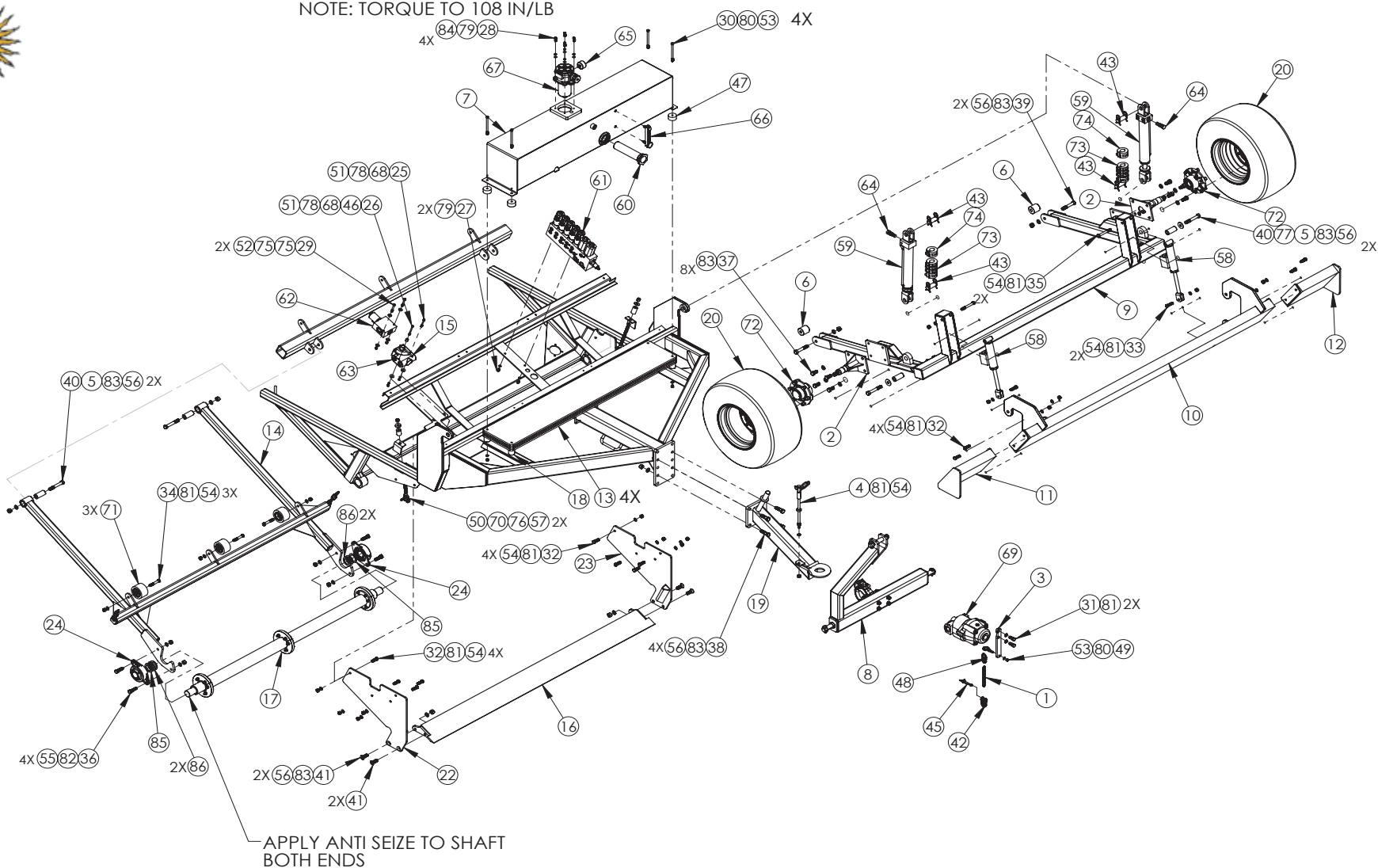
UNIT MAY BE EQUIPPED WITH EARLY STYLE GLIDE RAIL 71.CP0047 FROM FACTORY

71.CP0047 EARLY GLIDE RAIL QTY 2
 71.P100604 3/8-16 UNC X 1 GR 5 HEX BOLT QTY 6
 71.P851106 3/8 LOCK WASHER QTY 6
 71.P851606 3/8 HEAVY FLAT WASHER QTY 6

EARLY GLIDE RAIL CP0047 MOUNTS WITH 3/8-16 HEX BOLT - CP0057 INSTALLS WITH BUILT IN STUD AND 1/2-13 NYLOCK NUT NOT INTERCHANGEABLE WITHOUT SCREEN FRAME MOUNTING SLOT MODIFICATION

** #21 SHAKER / VIBRATOR ADDITIONAL ITEMS
 71.P358105 HYDRAULIC MOTOR SHAFT SEAL
 71.P358107 HYDRAULIC MOTOR
 71.P358108 DRIVE COUPLING ASSEMBLY

NOTE: TORQUE TO 108 IN/LB



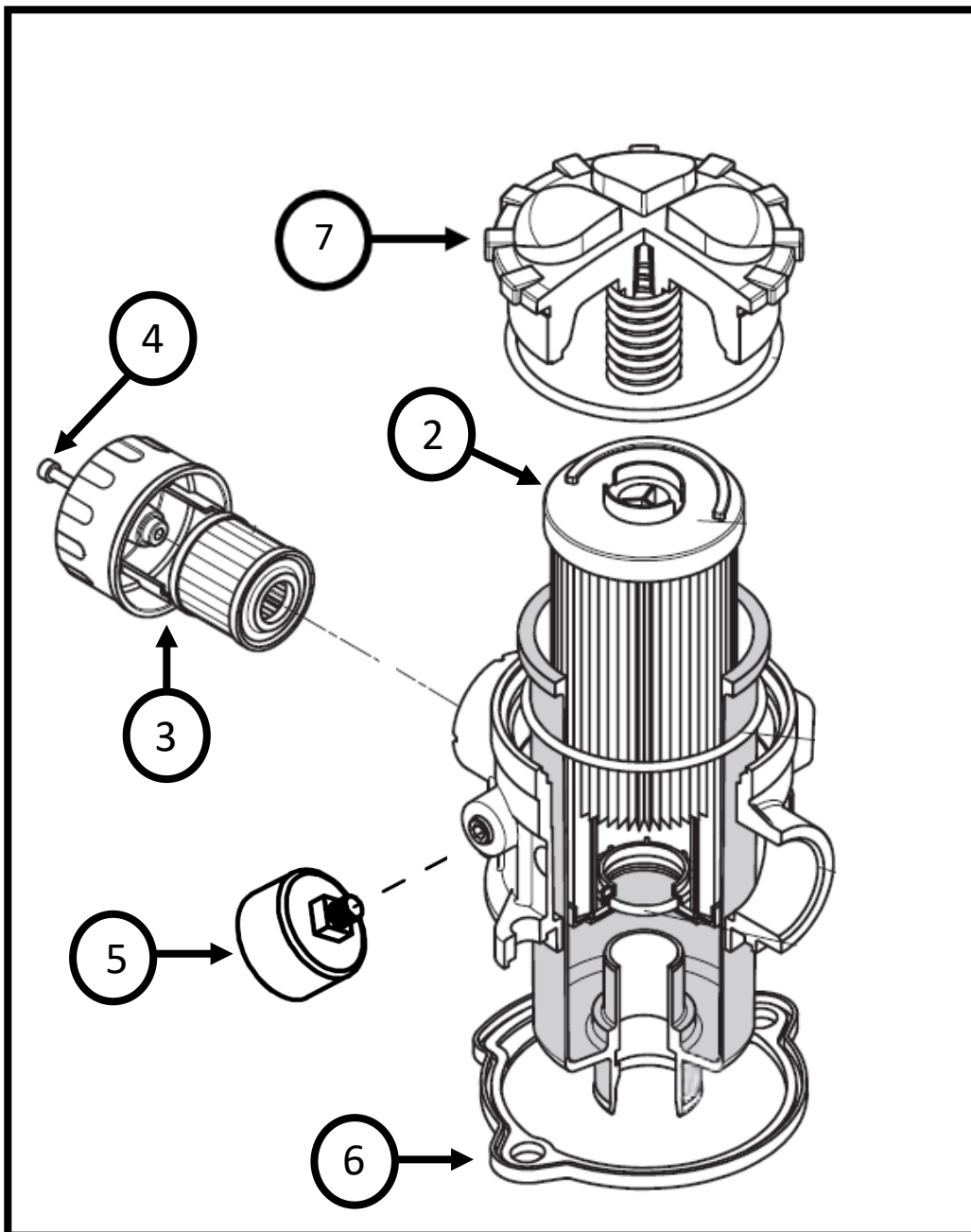
TANK & FRONT END LEGEND

ITEM#	QTY.	PART#	DESCRIPTION	ITEM#	QTY.	PART#	DESCRIPTION
1	1	005123	CHAIN, TORQUE ARM	44	2	P121200	BENT HITCH PIN 3/4" X 3-1/2"
2	2	005201	AXLE WLD, GAUGE WHEEL	45	1	P123005	3/8 SAFETY PIN X 2 1/2
3	1	005231	TORQUE ARM, EATON PTO	46	1	P133033	SPACER: NYLON .62 OD X .25 ID X .62
4	1	005313	HOSE LOOP ASSY, SLIDER	47	4	P133035	RUBBER SPACER 2" X 1"
5	4	450098	BUSHING, NYL 1.25 X .625 X 2.688	48	1	P135005	QUICK LINK, 5/16"
6	2	450112	BUSHING, NYL 2 X .625 X 2	49	1	P135102	3/8-16 X 1-1/4 FORGED EYE BOLT
7	1	450296	HYD RESERVOIR 4500/4600	50	2	P135190	JAW END: 1/2-13 X 9
8	1	460040	ASM: 3 PT ADPT CAT2 OPEN	51	2	P155250	NUT: HEX, 1/4" TOP-LOCK
9	1	460049	GAUGE WHEEL FRAME 4600	52	2	P155350	NUT: HEX, 5/16 TOP-LOCK
10	1	460056	WLDT: LEVELING BLADE 4600	53	5	P155450	NUT: HEX 3/8"-16NC TOP-LOCK ZP
11	1	460060	WLDT: BLADE EXT RH	54	20	P155850	NUT: HEX 1/2"-13NC TOP-LOCK ZP
12	1	460061	WLDT: BLADE EXT LH	55	4	P155900	NUT: HEX, 9/16"-12 TOP-LOCK
13	4	460080	PLATE; COUNTER WEIGHT	56	12	P157500	NUT: HEX, 5/8"-11 TOP-LOCK
14	1	460095	CONVEYOR SUPPORT 4600	57	2	P158005	1/2-13 NYLOCK NUT
15	1	460135	LEVER; FLOW CONTROL	58	2	P259160	CYLINDER: 1-1/2B X 4S W/CAV CH
16	1	460173	WLDT: DIGGER POINT 4600 FIXED	59	2	P259305	CYL: 2B X 10S W/CAV CH
17	1	460187	ASM; SHAFT, FRONT CONV SPLIT IDLER	60	1	P278250	STRAINER, HYD 30 GPM
18	4	460211	SPACER	61	1	P292400	VALVE: VA04-0699-1
19	1	470132	HITCH WELD, BOLT ON PINTLE	62	1	P292410	VALVE ASM, PV72-30
20	2	470152	WHEEL ASSY, 26 X 12-12	63	1	P294150	VALVE: BRAND FC55-10-SAE*37
21	2	480070	TIRE & RIM ASM: AW708	64	2	P294250	VALVE, PILOT CHECK
22	1	550485	WLDT: DIGGER MT RH	65	1	P297170	GAUGE, IND LP C1-20
23	1	550486	WLDT: DIGGER MT LH	66	1	P297220	GAUGE: OIL SIGHT
24	2	P004175	BEARING: 1-3/4 FLANGE 2 BOLT	67 *	1	P371840	FILTER: MPT1042CAG8A10HBT SEE NOTE
25	1	P100411	BOLT: HEX, 1/4"NC X 2 3/4" GR5 ZN	68	2	P500304	WASHER: RUBBER 1/4 X 1
26	1	P100414	1/4-20 X 3-1/2 HEX BOLT	69	1	P556600	PUMP, EATON PTO #77022-LAH
27	2	P100503	BOLT: HEX, 5/16"NC X 3/4"GR5	70	2	P602420	SPRING, TUBE 1/2 X 1-1/8 X 1-3/4
28	4	P100504	BOLT: HEX, 5/16" NC X 1" GR5	71	3	P761100	SNUGULATOR, 3.5 DIA X 2.125
29	2	P100511	5/16-18 X 2-3/4 HEX BOLT	72	2	P764300	HUB ASSEMBLY, 6 BOLT
30	4	P100622	BOLT: HEX 3/8-16 X 5-1/2"	73	2	P781000	STROKE CONT SET
31	2	P100805	BOLT: HEX, 1/2" X 1-1/4"	74	2	P781002	STROKE CONTROL, 1-1/2
32	12	P100806	BOLT: HEX, 1/2" X 1 1/2"GR.5Z	75	4	P850105	WASHER: FLAT 5/16" ZP
33	2	P100807	BOLT: HEX 1/2-13 X 1-3/4"	76	2	P850108	WASHER: FLAT 1/2" ZP
34	3	P100812	BOLT: HEX, 1/2" X 3"GR.5	77	2	P850110	WASHER: FLAT 5/8" ZP
35	2	P100816	BOLT: HEX 1/2"-13NC X 4 GR5ZP	78	2	P851104	WASHER: LOCK 1/4"
36	4	P100908	BOLT: HEX, 9/16-12 NC X 2	79	6	P851105	WASHER: LOCK 5/16"
37	8	P101005	BOLT: HEX 5/8-11 X 1-1/4"	80	5	P851106	WASHER: LOCK 3/8" ZP
38	4	P101009	BOLT; HEX 5/8 X 2 1/4	81	22	P851108	WASHER: LOCK 1/2" ZP
39	2	P101015	BOLT: HEX 5/8-11 X 3-3/4 GR8	82	4	P851109	WASHER: LOCK 9/16"
40	4	P101017	BOLT, HEX 5/8-11 X 4-1/4	83	20	P851110	WASHER: LOCK 5/8"
41	4	P110707	BOLT: FSHCS 5/8-11 NC X 1.75	84	4	P852105	WASHER: FLAT 5/16" NARROW
42	1	P118070	PIN CLEVIS, 5/16 X 1	85	2	P855128	10 GA. X 1-3/4" MACHINE BUSHING
43	4	P120850	CLEVIS PIN: 1"	86	4	P855525	BUSHING: MACH 18GA X 1-3/4

71.P371841 REPLACEMENT HYDRAULIC FILTER ONLY

HYDRAULIC FILTER HOUSING

- 1) 71.P371840 Complete filter housing: includes base gasket and 10-micron filter element
- 2) 71.P371841 Filter element 10-micron
- 3) 71.P371842 Breather filter element / housing
- 4) 71.P110160 Mounting screw M4 - .7 X 25 mm socket head cap screw
- 5) 71.P297170 Filter indicator gauge
- 6) 71.P371839 Base gasket
- 7) 71.P371844 Cover with spring

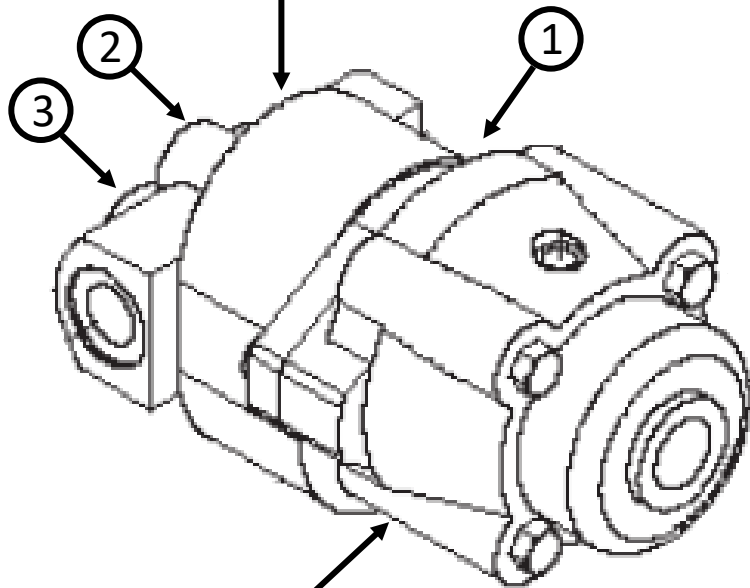


PTO PUMP

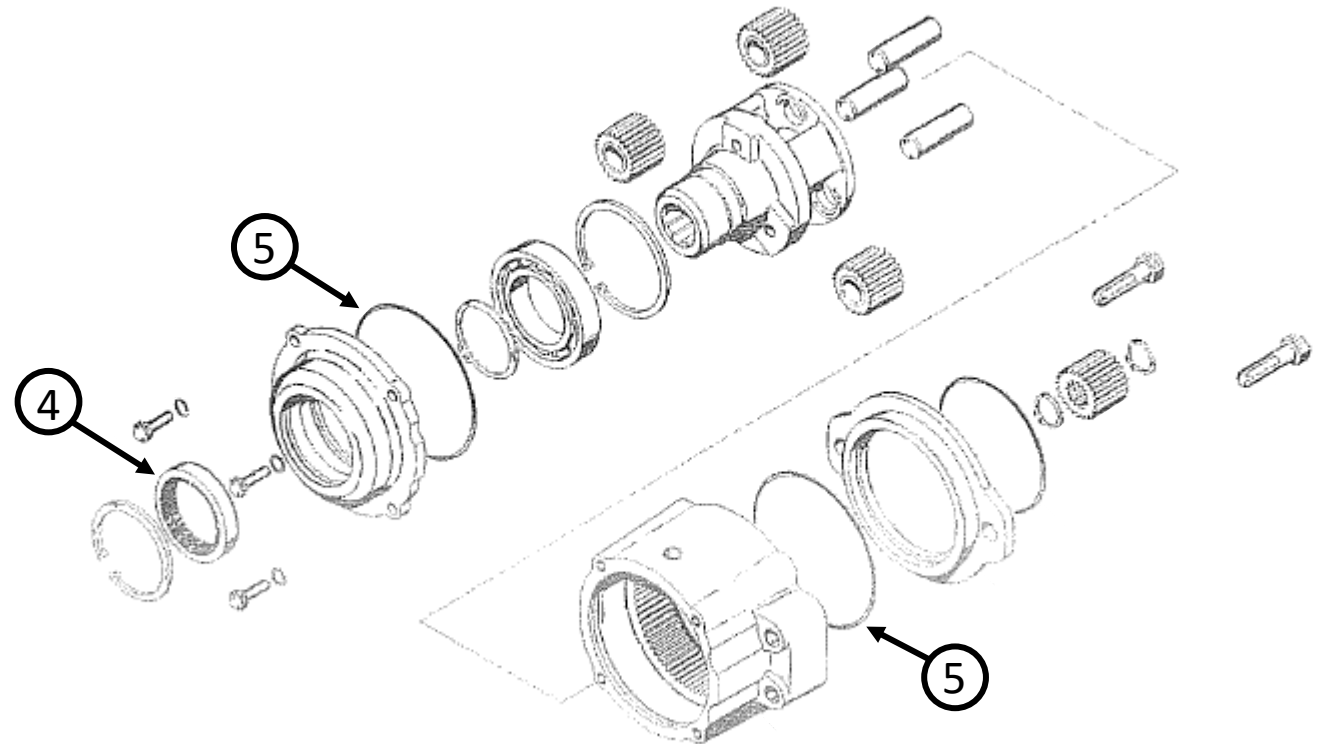
PLANETARY GEARBOX DRIVE / HYDRAULIC GEAR PUMP

- 1) 71.P556600 COMPLETE PUMP ASSEMBLY (PLANETARY GEARBOX / HYDRAULIC GEAR PUMP FULLY ASSEMBLED)
- 2) 71.P556610 HYDRAULIC GEAR PUMP (GEAR PUMP SECTION ONLY)
- 3) 71.P556611 HYDRAULIC GEAR PUMP SEAL KIT
- 4) 71.V16253-34 PTO / PLANETARY GEARBOX INPUT SHAFT SEAL
- 5) 71.V160.15 O RING

HYDRAULIC GEAR PUMP SECTION



PLANETARY GEARBOX DRIVE SECTION



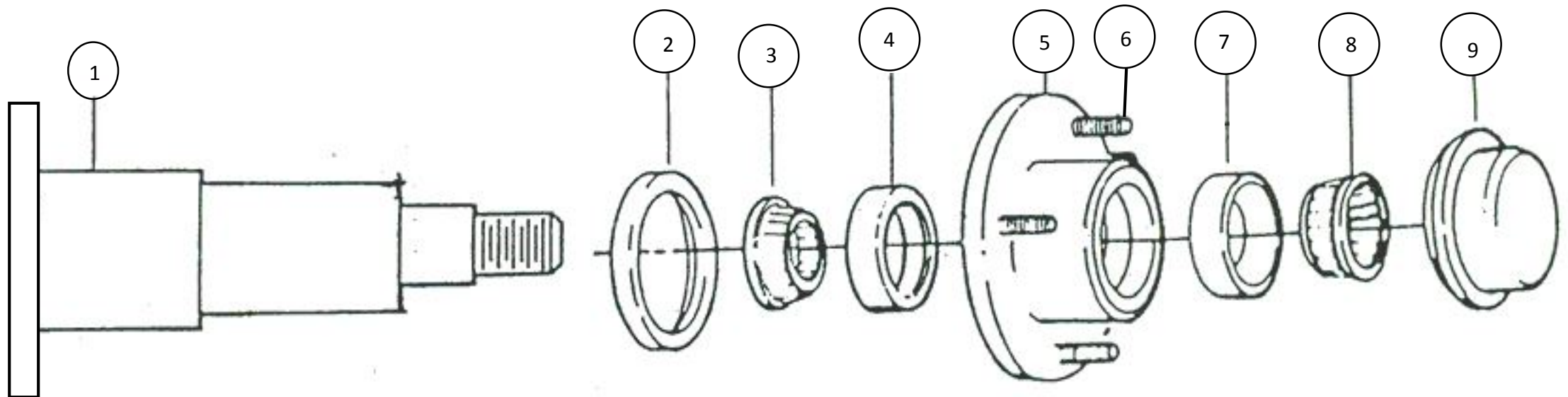
PLANETARY GEARBOX DRIVE EXPLODED VIEW

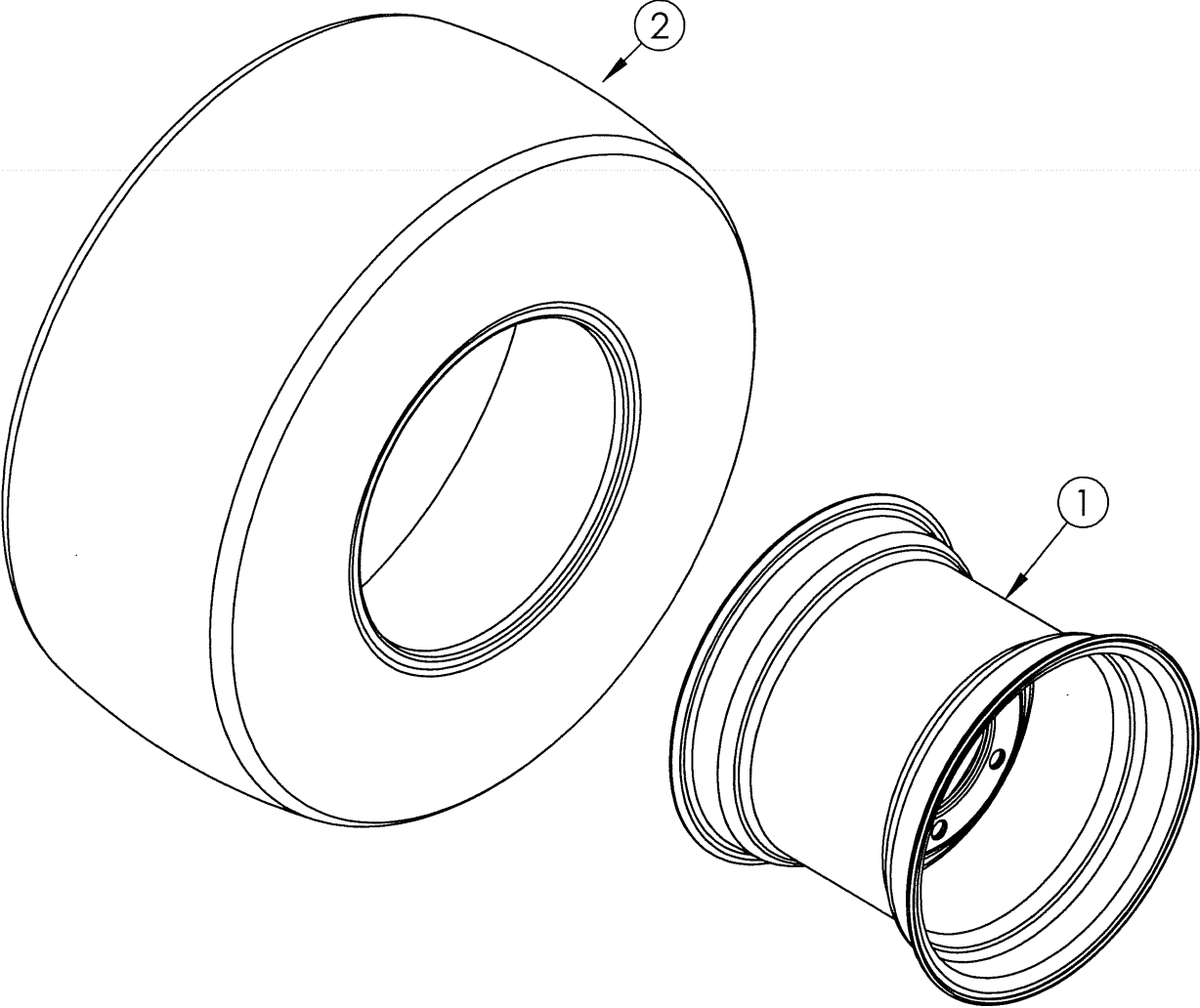
FRONT HUB ASSEMBLY MODEL 4600

- 1) 71.005201 AXLE WELD: GAUGE WHEEL
- 2) 71.P764302 HUB SEAL MFG. / SKF P/N: 16284
- 3) 71.P764303 INNER CONE / BEARING PEER P/N: LM29749
- 4) 71.P764304 INNER CUP / RACE PEER P/N: LM29710
- 5) 71.P764300 COMPLETE HUB ASSEMBLY (CONTAINS ITEM# 2 THRU 9 EXCEPT FOR #6)
- * 71.P764305 HUB ONLY: 6 BOLT X 6 INCH BOLT CIRCLE X 4-5/8 PILOT

- 6) 71.P764306 WHEEL BOLT 1/2-20 NF X 1-3/4 CONICAL
- 7) 71.P764307 OUTER CUP / RACE PEER P/N: LM67010
- 8) 71.P764308 OUTER CONE / BEARING PEER P/N: LM67048
- 9) 71.P764301 DUST CAP GKN P/N: P502026

- 71.P764310 BEARING KIT: CONTAINS ITEM# 2 THRU 4 **AND** 7 THRU 9

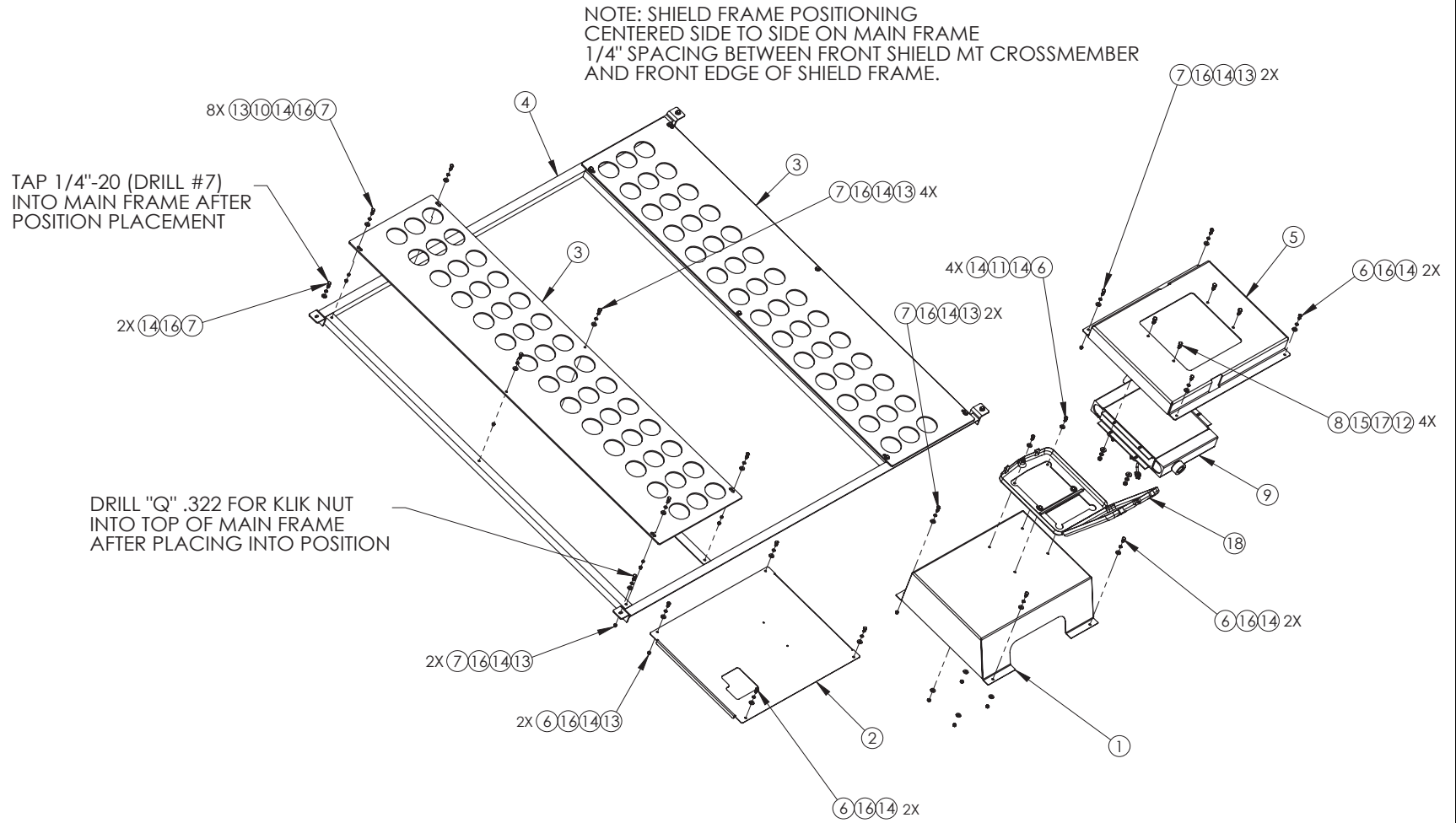




COMPLETE FRONT TIRE - WHEEL ASSEMBLY P/N: 470152

2	1	P763300	TIRE, 26 X 12-12 TURF TRAC
1	1	P750300	RIM: 12 X 10.50
ITEM	QTY.	PART NUMBER	DESCRIPTION





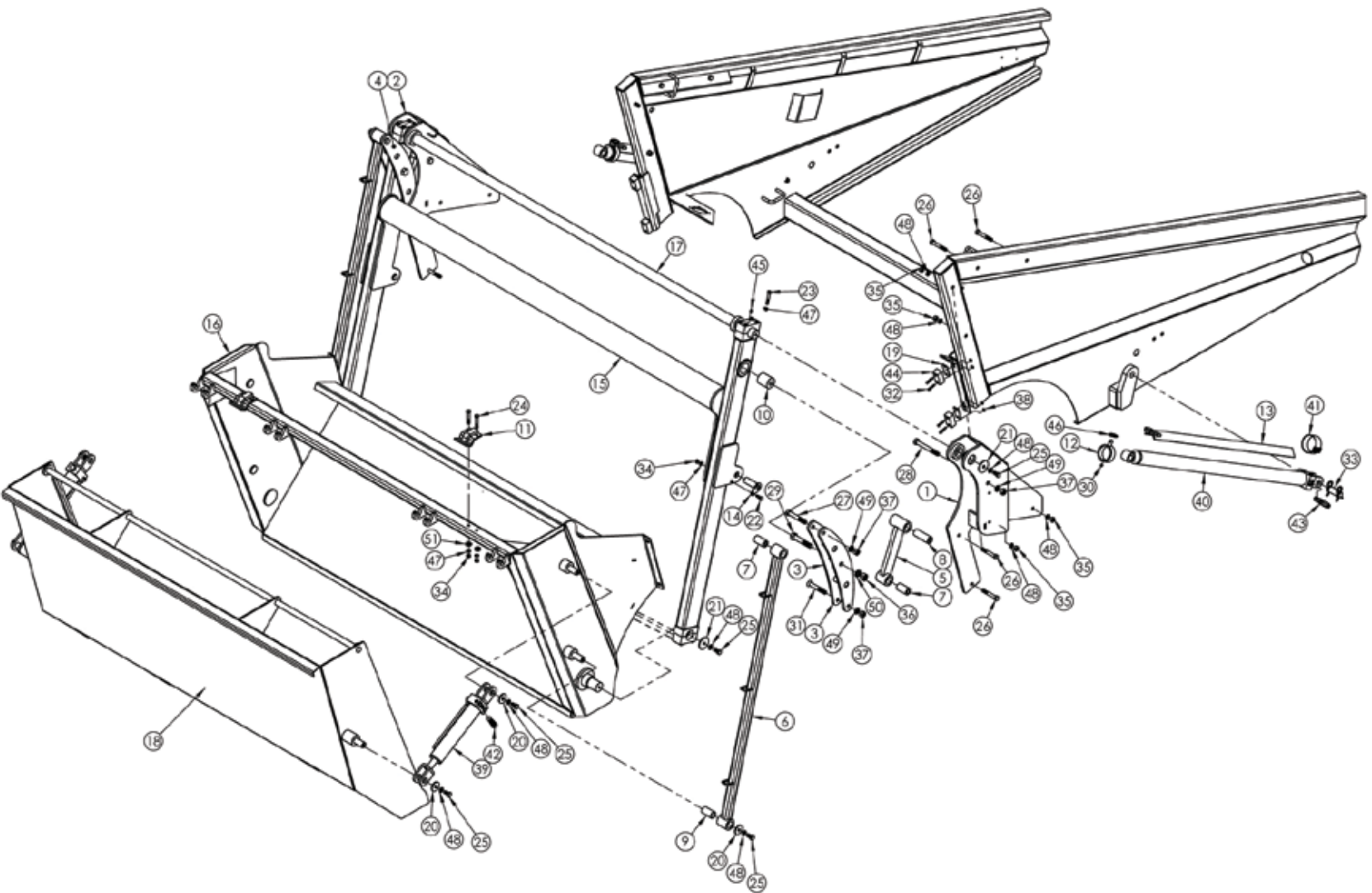
SHIELDS LEGEND

<u>ITEM #</u>	<u>QTY.</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	1	450362	SHIELD: VALVE COVER WELD
2	1	460103	SHIELD: CONVEYOR CONTROL
3	2	470228	SHIELD, CONVEYOR
4	1	480151	FRAME, CONVEYOR COVER
5	1	480153	COOLER MOUNT
6	12	P100403	BOLT: HEX, 1/4"NC X 3/4" GR5
7	20	P100404	BOLT: HEX, 1/4"NC X 1"GR5
8	4	P100504	BOLT: HEX, 5/16" NC X 1" GR5
9	1	P117300	COOLER, HYD OIL AKG DC16-12
10	8	P126900	METAL BRONZE BEARING 1/4 X 3/8
11	4	P155250	NUT: HEX, 1/4" TOP-LOCK
12	4	P155350	NUT: HEX, 5/16 TOP-LOCK
13	20	P160251	NUT: KLIK 1/4-20 X .08-.14
14	36	P850104	WASHER: FLAT 1/4" ZP
15	4	P850105	WASHER: FLAT 5/16" ZP
16	28	P851104	WASHER: LOCK 1/4"
17	4	P851105	WASHER: LOCK 5/16"
18	1	P999000	BOX: OWNERS MANUAL

*NOT PICTURED

71.P117310 HYD COOLING FAN ONLY

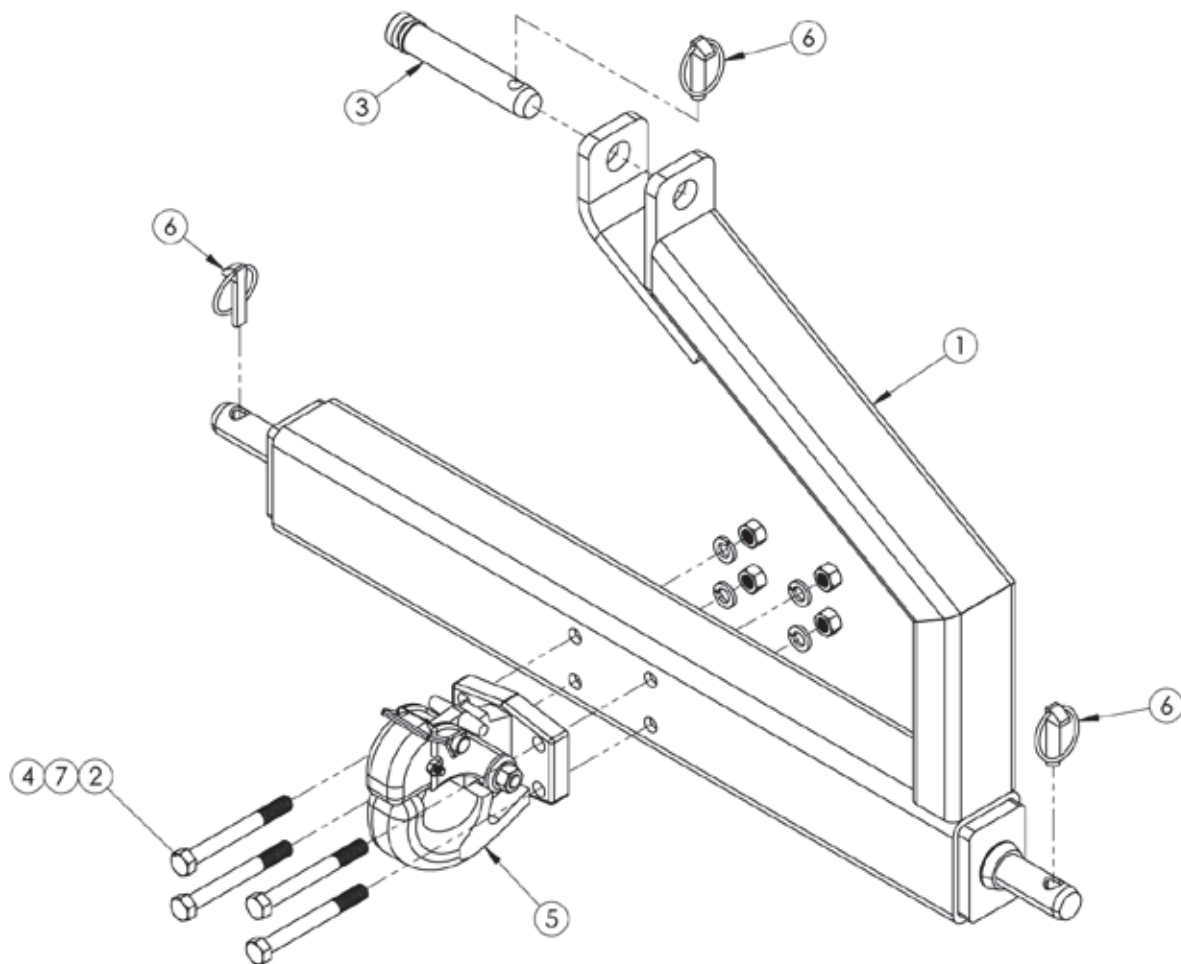
BOOM AND HOPPER SCHEMATIC



BOOM AND HOPPER LEGEND

<u>ITEM NO.</u>	<u>QTY.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	450114	MT: HIGH LIFT RH
2	1	450115	MT: HIGH LIFT LH
3	1	450117	SCISSOR ARM WLD RH
4	1	450118	SCISSOR ARM WLD LH
5	2	450120	LINK: SCISSOR ACTION BASE
6	2	450121	LINK: SCISSOR ACTION PARALLEL
7	4	450138	BUSHING: NYL 1.25 X .625 X 2.312
8	2	450139	BUSHING, NYL 1.25 X .625 X 3.5
9	2	450140	BUSHING: NYL 1.25 X 1 X 2.312
10	2	450141	BUSHING: NYL 2 X .75 X 2.312
11	2	450149	HOPPER LOCK, WLD
12	2	450193	RETAINER, PROP BAR
13	2	450194	SAFETY PROP BAR ASM
14	2	480087	PIN, 1" X 3" LOCK
15	1	480166	BOOM WLD 72 SB
16	1	480167	HOPPER BASE WLD 72 SB
17	1	480170	PIVOT, HIGH LIFT STABILIZER
18	1	480174	HOPPER DOOR WELD, 2 YD
19	4	M30079	SPACER: BUMPER
20	6	M5009-5	3/16" X 1/2" X 1-3/4" WASHER
21	4	M5462	3/16 X 1/2 ID X 2-1/4 OD WASHER
22	2	P100604	3/8-16 X 1.0" HEX BOLT
23	16	P100609	3/8-16 X 2-1/4 HEX BOLT
24	4	P100610	3/8-16 X 2-1/2 HEX BOLT
25	10	P100804	1/2-13 X 1" HEX BOLT
26	8	P100813	1/2-13 X 3-1/4" HEX BOLT
27	2	P101016	BOLT: HEX 5/8-11 X 4" GR8
28	2	P101021	BOLT: HEX 5/8-11 X 5-1/4
29	2	P101216	BOLT, HEX 3/4-10 X 4 GR8
30	2	P108606	SET SCREW, 3/8-16 X 3/8
31	2	P110750	BOLT: FLAT HD SOCKET 5/8-11 X 4" Z
32	8	P110912	CAPSCREW, 1/4-20 X 1-1/4 ALLEN HD
33	2	P120850	CLEVIS PIN: 1"
34	6	P155450	3/8-16 TOP LOCK NUT
35	8	P155850	NUT HEX, 1/2-13 TOP LOCK
36	2	P157120	3/4-10 TOP LOCK NUT
37	6	P157500	5/8-11 TOP LOCK NUT
38	8	P158003	NUT, HEX, 1/4 ELASTIC STOP
39	2	P259330	CYL, 2B X 8S W/CAV CH
40	2	P259335	CYL; 2B X 42S W/CAV 1" BARREL END
41	2	P259999	STRAP: 12" STD DUTY CINCH
42	2	P294250	VALVE, PILOT CHECK CKCB-XFN
43	2	P294260	VALVE, COUNTERBALANCE CHECK CBCG-LJN
44	4	P605000	SPRING BUMPER
45	4	P620200	1/4-28 STR GREASE FITTING
46	2	P622604	PIN, LYNCH 3/16 X 1-1/4
47	22	P851106	3/8" LOCK WASHER
48	18	P851108	1/2" LOCK WASHER
49	6	P851110	5/8" LOCK WASHER
50	2	P851112	3/4 LOCK WASHER
51	4	P851606	3/8" HEAVY WASHER

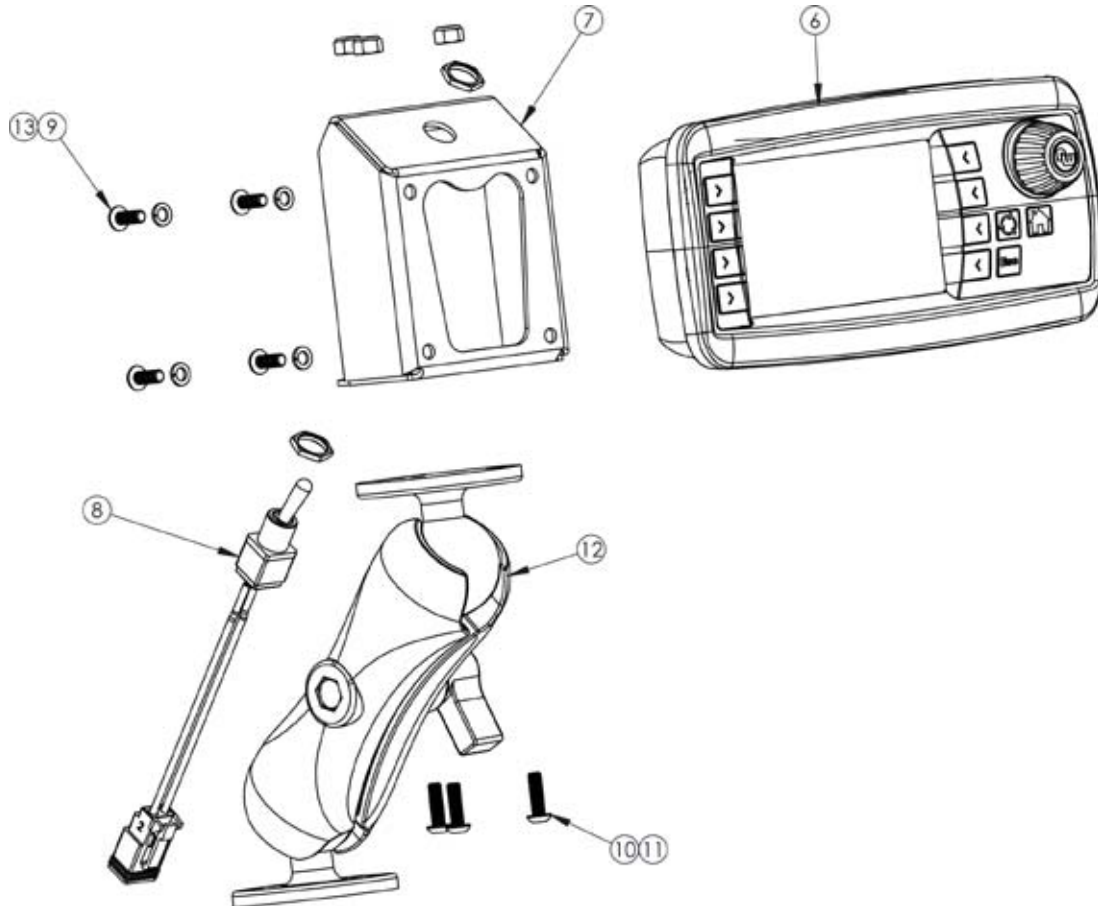
THREE POINT ADAPTER SCHEMATIC



THREE POINT ADAPTER LEGEND

<u>ITEM</u>	<u>QTY</u>	<u>PART#</u>	<u>DESCRIPTION</u>
1	1	460041	PINTLE ADAPTER: 3PT CAT 2 OPEN
2	4	P100818.8	1/2-13 X 4 1/2" HEX BOLT GR 8
3	1	P120410	CAT 2 TOP LINK PIN
4	4	P155850	1/2-13 TOP LOCK HEX NUT
5	1	P466100	PINTLE HOOK 15 TON
6	3	P622603	7/16 X 1 1/4 LYNCH PIN
7	4	P851108	1/2" LOCK WASHER

CONTROL AND ELECTRICAL LEGEND

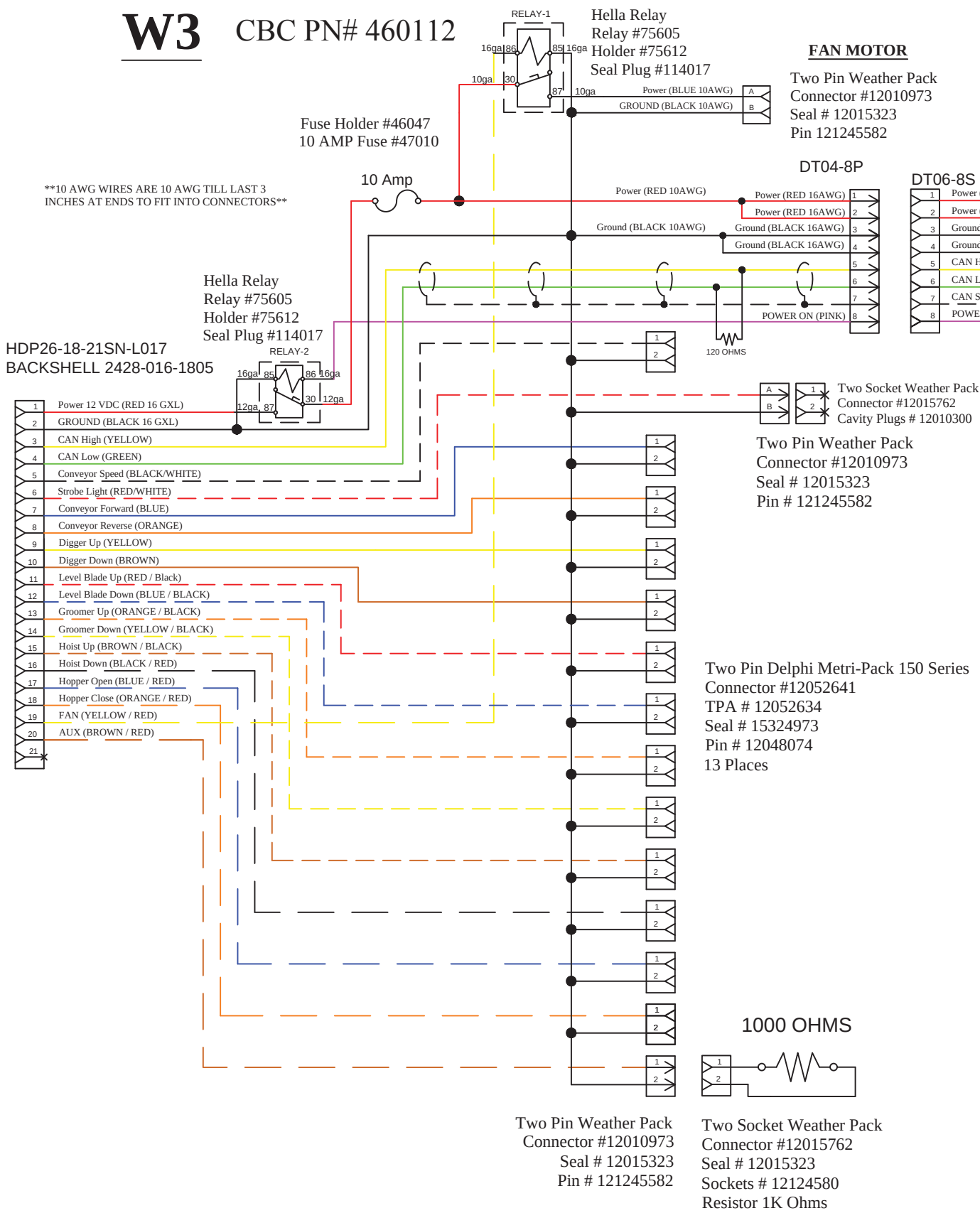


ITEM	QTY	PART#	DESCRIPTION
1	1	460111	CORD: POWER SUPPLY
2	1	460112	HARNESS: VALVE/CHASSIS
3	1	460113	HARNESS: HITCH/VALVE
4	1	460114	HARNESS: DISPLAY
5	1	460115	ASM: RECEIVER KAR-TECH
6	1	460116	DISPLAY: WACHENDORFF 4600
7	1	460117	MTG ADAPTER: WACHENDORFF
8	1	460118	SWITCH ASM: DISPLAY
9	4	P106102	SCREW: BHSCS 10-32 X1/2 SS
10	3	P106105	SCREW: BHSCS 10-32 X 5/8 SS
11	3	P158010	NUT: HEX, #10-32 NYLOCK SS
12	1	P296877	ASM: RAM MT 101U
13	4	P851103	WASHER: LOCK 3/16" GALV



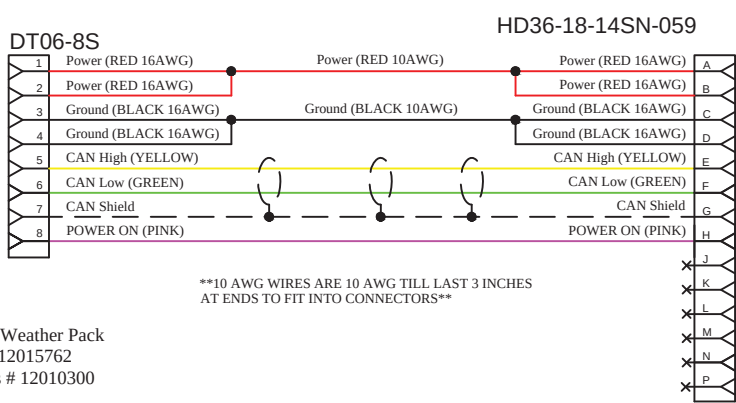
VALVE HARNESS
W3

CBC PN# 460112



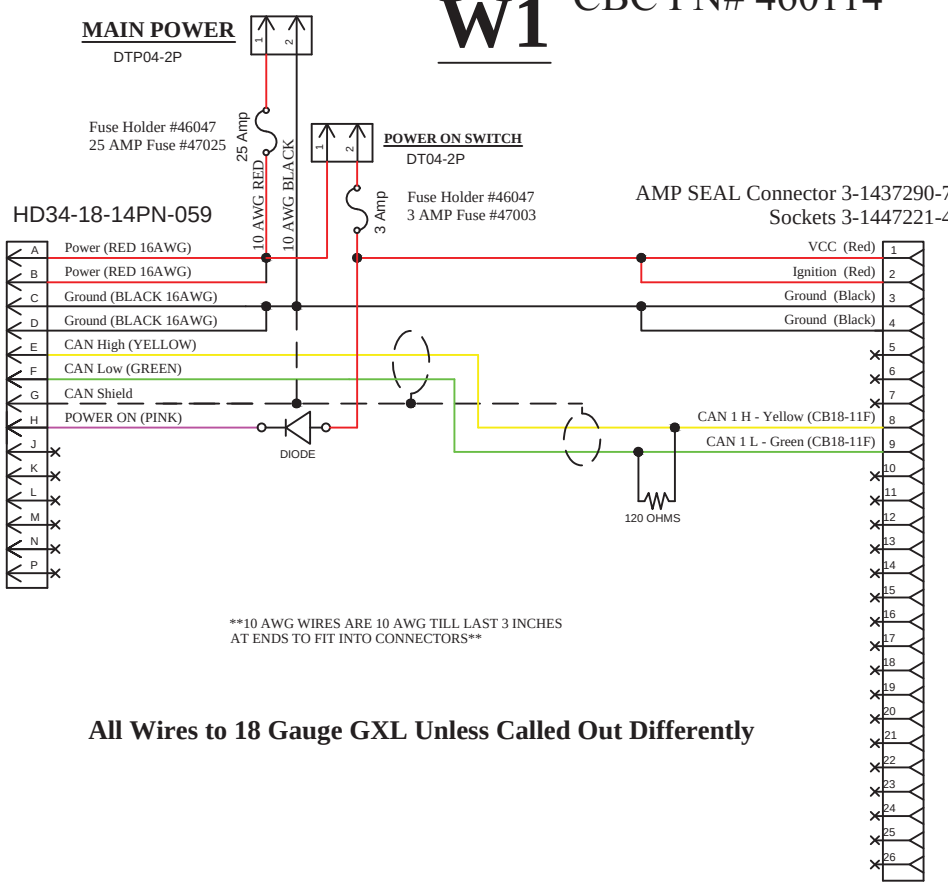
HITCH HARNESS
W2

CBC PN# 460113



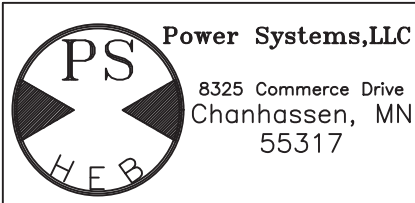
DISPLAY HARNESS
W1

CBC PN# 460114

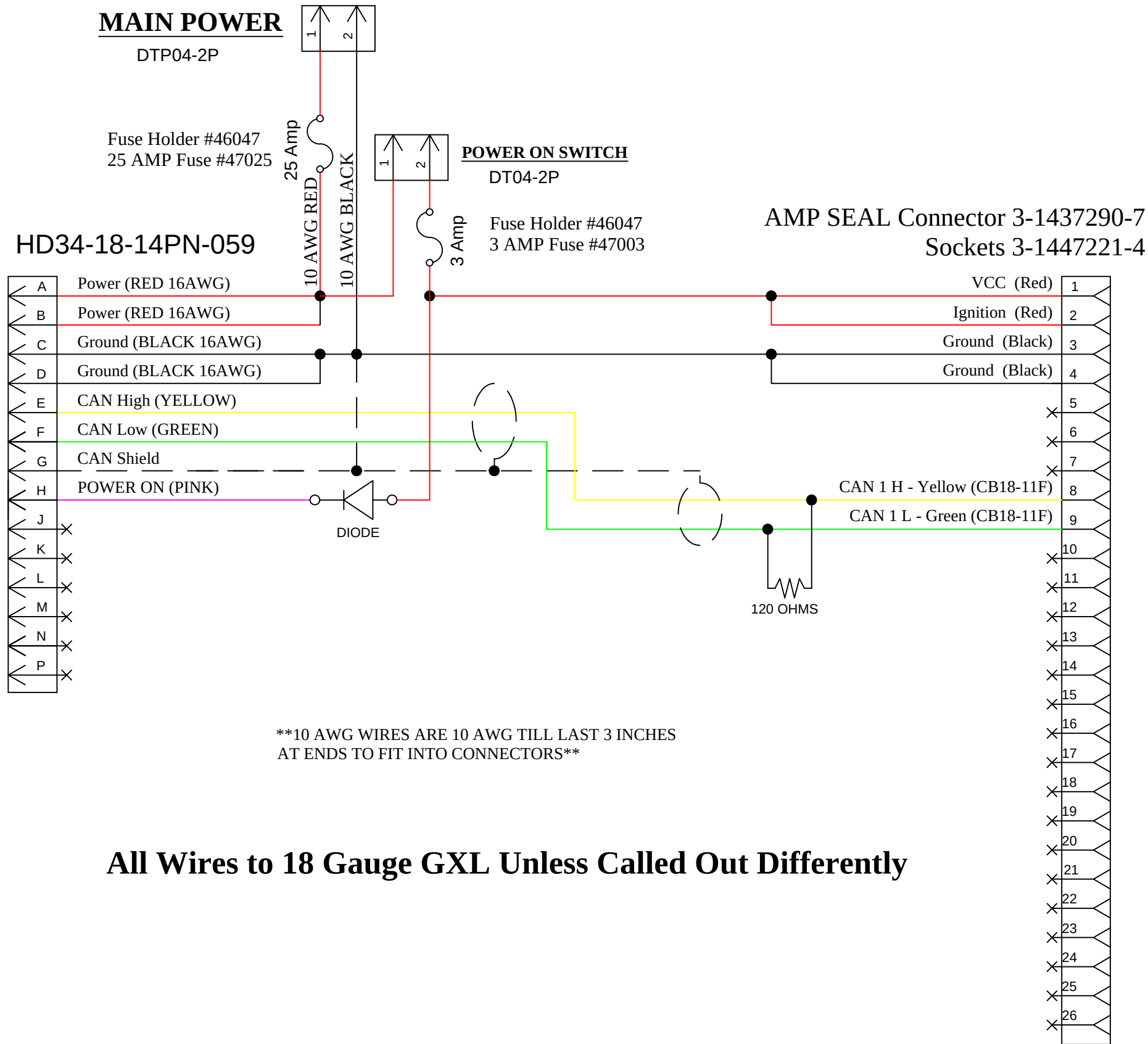


All Wires to 18 Gauge GXL Unless Called Out Differently

B	CJ	09/01/17		XXX	Corrected Drawing to Yellow wire color for CAN High
B	CJ	05/06/16	ECN5959	XXX	Added Diode to Power On Wire
A	CJ	09/20/13	ECN4755	XXX	Released to Production
REV.	BY	DATE	ECN	CHECK	DESCRIPTION OF CHANGES



DWG	TITLE						
B	Harness 1,2,3						
	DRAWN BY	CHECK BY	DATE	PAGE	DRAWING NO.		REV.
SIZE	CJ	XXX	09/16/13	1 of 2	EA1678-W1,2,3		B



DISPLAY HARNESS

CBC PN# 71.460114

B	CJ	09/01/17		XXX	Corrected Drawing to Yellow wire color for CAN High
B	CJ	05/06/16	ECN5959	XXX	Added Diode to Power On Wire
A	CJ	09/20/13	ECN4755	XXX	Released to Production
REV.	BY	DATE	ECN	CHECK	DESCRIPTION OF CHANGES



Power Systems, LLC
8325 Commerce Drive
Chanhassen, MN
55317

DWG

B

SIZE

TITLE

Display Harness

DRAWN
BY

CJ

CHECK
BY

XXX

DATE

09/16/13

PAGE

1 of 2

DRAWING NO.

EA1678-W1

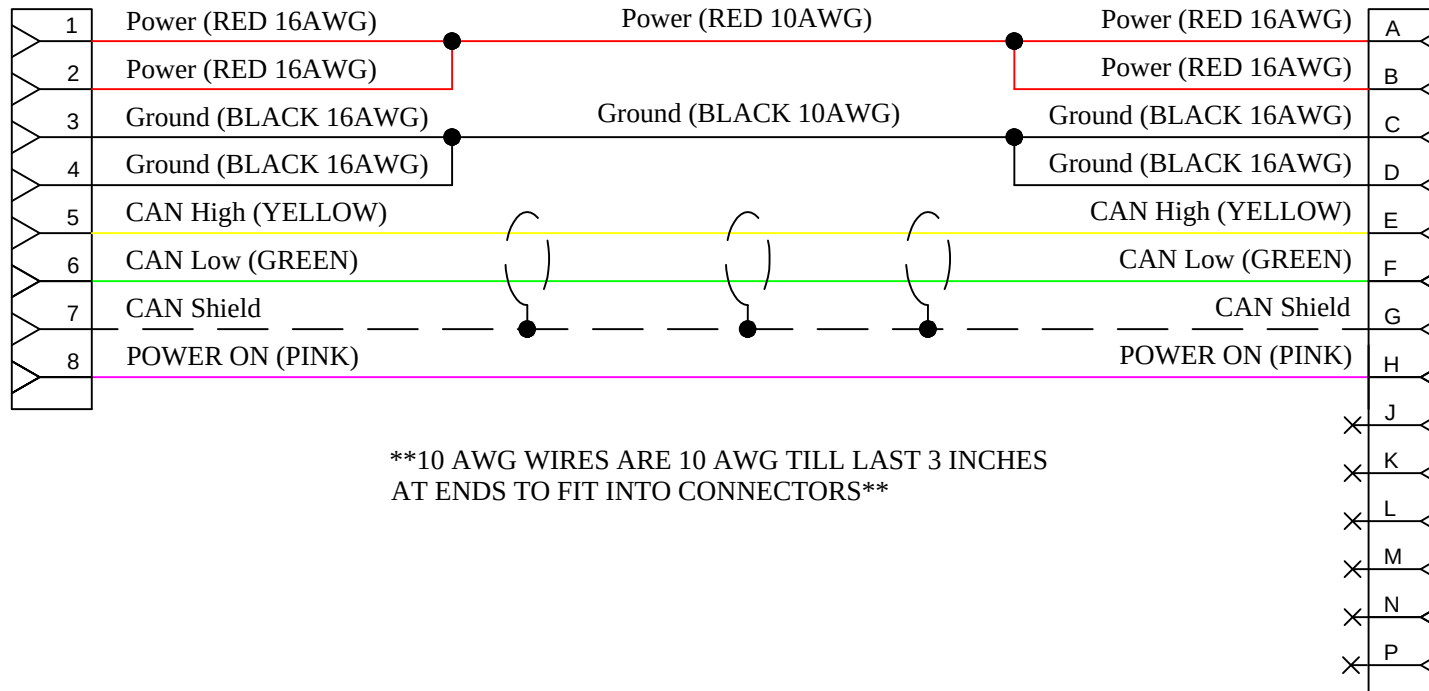
REV.

B

CBC PN# 460113 HITCH HARNESS

DT06-8S

HD36-18-14SN-059



**10 AWG WIRES ARE 10 AWG TILL LAST 3 INCHES
AT ENDS TO FIT INTO CONNECTORS**

All Wires to 18 Gauge GXL Unless Called Out Differently

A	CJ	09/01/17		XXX	Corrected Drawing to Yellow wire color for CAN High
A	CJ	09/20/13	ECN4756	XXX	Released to Production
REV.	BY	DATE	ECN	CHECK	DESCRIPTION OF CHANGES
 Power Systems, LLC 8325 Commerce Drive Chanhassen, MN 55317			DWG A SIZE	TITLE Hitch to Valve Harness	
DRAWN BY CJ	CHECK BY XXX	DATE 09/16/13	PAGE 1 of 2	DRAWING NO. EA1678-W2	REV. A



6	1	R99000008	CABLE: 10-2 MARINE X 120"
5	1	P295122	WEDGE: LOCKING WP-2S
4	2	P295121	SOCKET: CONTACT SIZE 12 DEUTSCH
3	1	P295120	PLUG; DTP06-2S
2	1	P295038	BLACK CLAMP
1	1	P295037	RED CLAMP
ITEM	QTY.	PART NUMBER	DESCRIPTION



P.O. BOX 2135
JAMESTOWN, ND 58402

DRAWN BY BJC

DATE 09/18/2013

DO NOT SCALE

PAGE 1 OF 1

TITLE CORD: POWER SUPPLY

PROPRIETARY AND CONFIDENTIAL

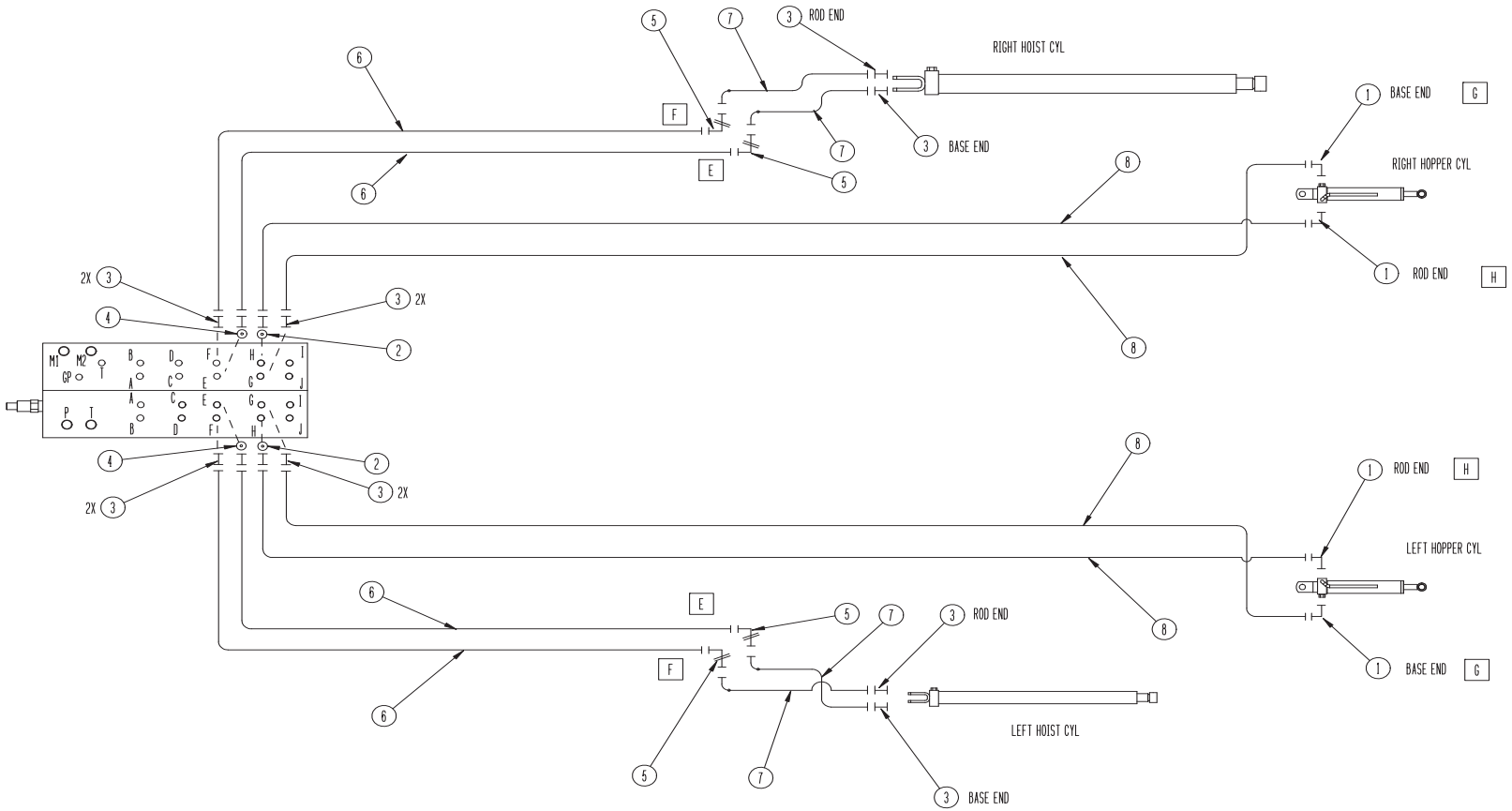
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CHERRINGTON. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CHERRINGTON IS PROHIBITED.

UNLESS OTHERWISE NOTED

TOLERANCES ON
DECIMALS FRACTIONS ANGLES
.XX±.060 ±1/32 ±1°
.XXX±.030

PART NO.
460111

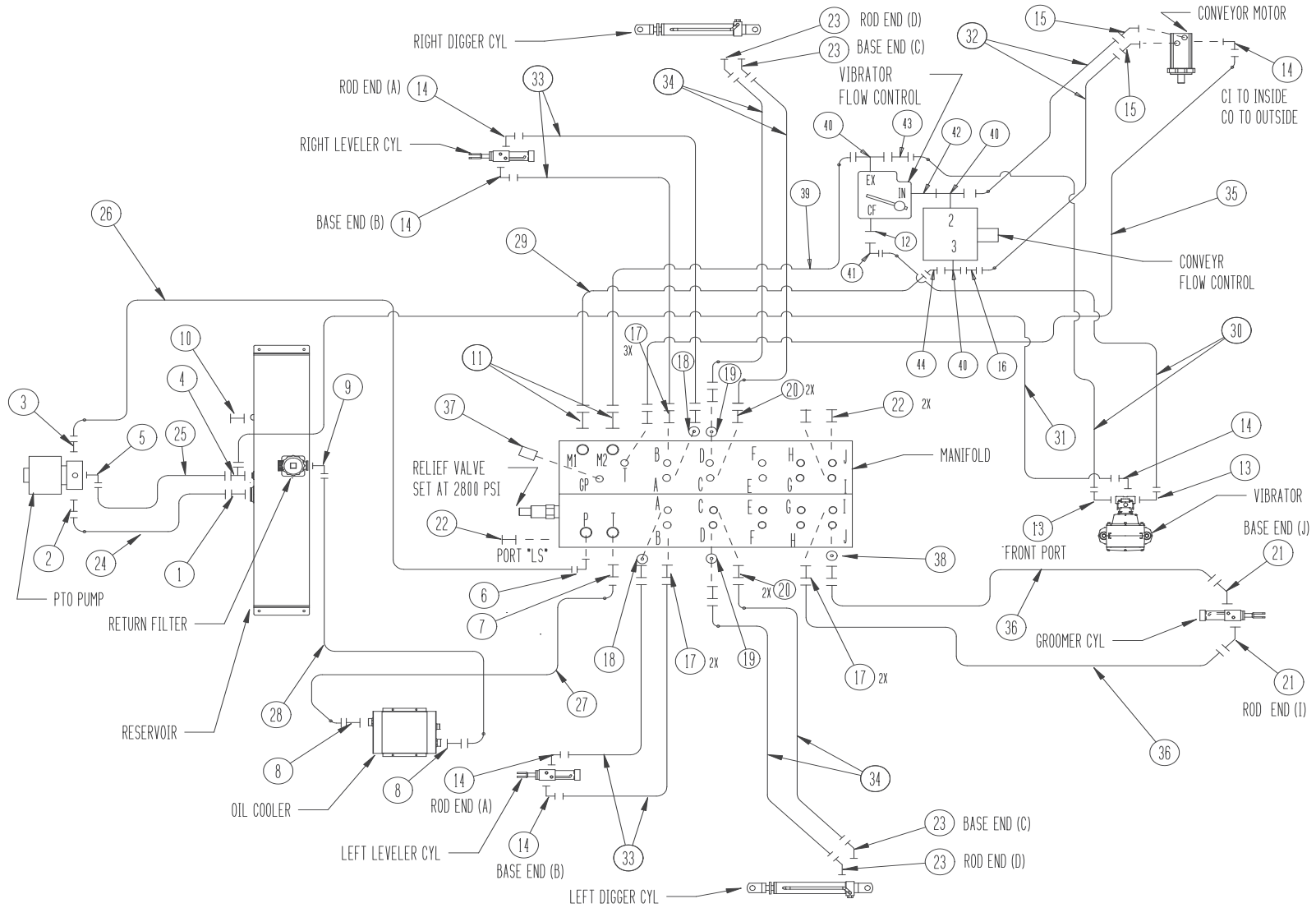
Pur/Mfg
M



HIGH LIFT CIRCUIT SCHEMATIC

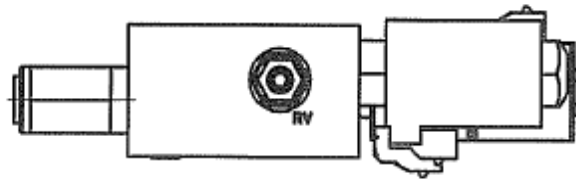
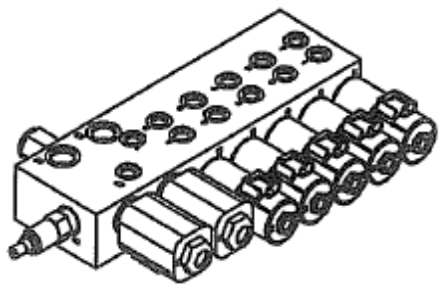
HIGH LIFT CIRCUIT LEGEND

<u>ITEM</u>	<u>QTY</u>	<u>PART#</u>	<u>DESCRIPTION</u>
1	4	P261350	FITTING 6MJ 6MB 90
2	2	P276107	FITTING 6MB DISC W/.062 ORIFACE
3	12	P276101	FITTING 6MJ 6MB
4	2	P276108	FITTING 6MB DISC W/.110 ORIFACE
5	4	P265410	FITTING 6MJ 6MJ BULKHEAD 90
6	4	P233127	HOSE -AM-6 X 127" 6FJ 6FJ
7	4	P233918	HOSE -AM-6 X 18" 6FJ 6FJ 90
8	4	P233256	HOSE -AM-6 X 256" 6FJ 6FJ



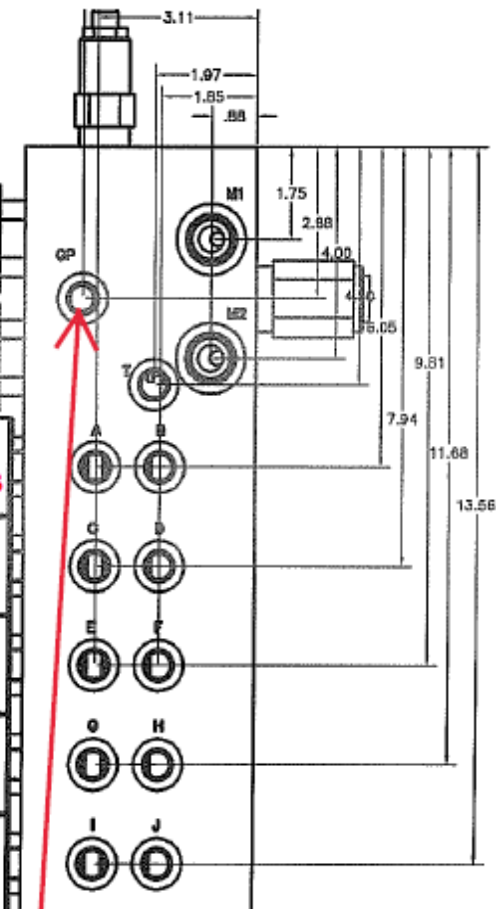
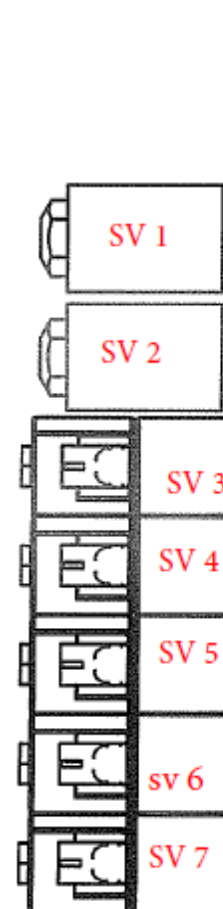
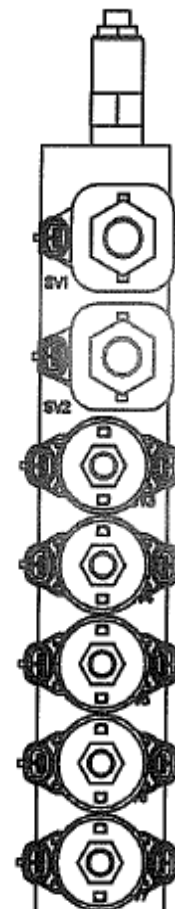
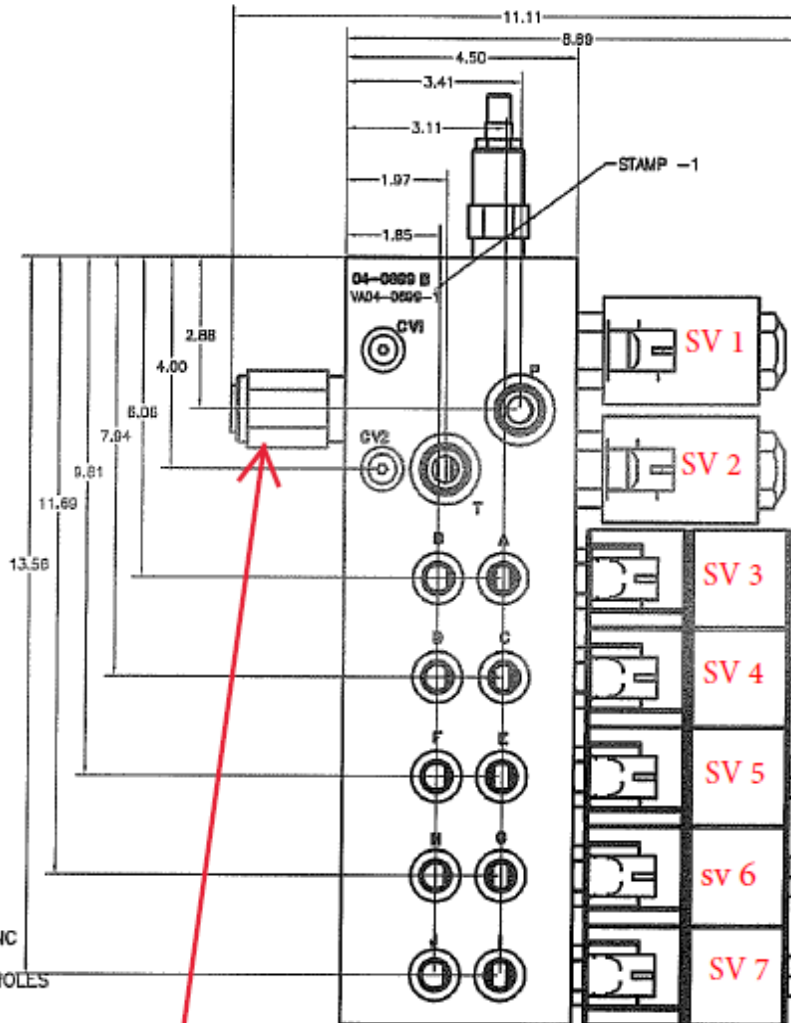
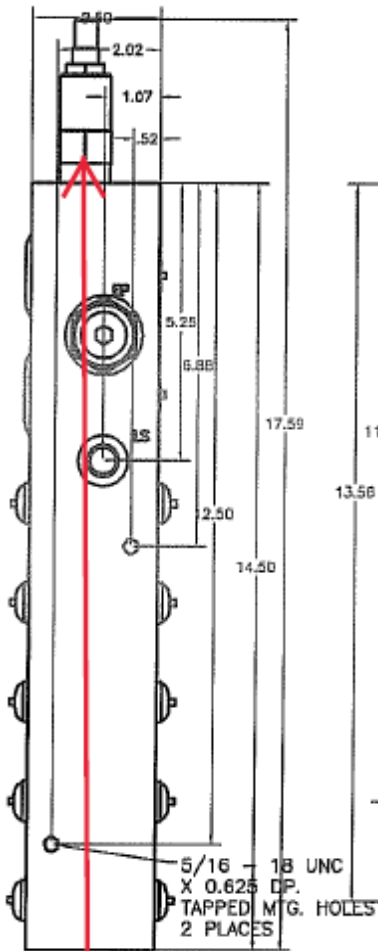
MAIN HYDRAULIC CIRCUIT LEGEND

<u>ITEM</u>	<u>QTY</u>	<u>PART NO</u>	<u>DESCRIPTION</u>
1	1	P277192	FITTING 20MJ 24MB
2	1	P277190	FITTING 20MJ 20MB
3	1	P276458	FITTING 10MJ 12MB
4	1	P265654	FITTING 6MJ 8MB 6MJ
5	1	P261350	FITTING 6MJ 6MB90
6	1	P276202	FITTING 10MJ 10MB90
7	1	P276440	FITTING 12MJ 10MB
8	2	P277100	FITTING 12MJ 16MB
9	1	P277106	FITTING 12MJ 16MB90
10	1	P278005	FITTING 8MB PLUG
11	2	P276200	FITTING 10MJ 10MB
12	1	P276430	FITTING 8MJ 10 MB
13	2	P261010	FITTING 8MJ 8MB90
14	6	P261400	FITTING 4MJ 4MB90
15	2	P276201	FITTING 10MJ 10MB45
16	1	P276442	FITTING 10MJ 10 FJX
17	6	P261452	FITTING 4MJ 6MB
18	2	P276105	FITTING 6MB DISC W/.032 ORIFACE
19	2	P276108	FITTING 6MB DISC W/.110 ORIFACE
20	4	P276101	FITTING 6MJ 6MB
21	2	P261420	FITTING 4MJ 4MB45
22	3	P270906	FITTING 6MB PLUG
23	4	P261525	FITTING 6MJ 6MB45
24	1	P289981	HOSE-FX-20 X 81" 20FJ 20FJ90
25	1	P233087	HOSE- AM-6 X 87" 6FJ 6FJ
26	1	P235106	HOSE- AM-10 X 106" 10FJ 10FJ90 W/ CORDURA
27	1	P236031	HOSE-AM-12 X 31" 12FJ45 12FJ90 (180 ROTATION)
28	1	P236947	HOSE-AM-12 X 47" 12FJ 12FJ90
29	1	P235029	HOSE-AM-10 X 29" 10FJ 10FJ
30	2	P234120	HOSE-AM-8 X 120" 8FJ 8FJ45
31	1	P232186	HOSE-AM-4 X 178" 4FJ 6FJ
32	2	P235130	HOSE-AM-10 X 130" 10FJ 10FJ45
33	4	P232964	HOSE-AM-4 X 64" 4FJ 4FJ90
34	4	P233952	HOSE-AM-6 X 52" 6FJ 6FJ90 LONG
35	1	P232166	HOSE-AM-4 X 166" 4FJ 4FJ45
36	2	P232184	HOSE-AM-4 X 184" 4FJ 4FJ
37	1	P276290	NIPPLE, DIAGNOSTIC
38	1	P276107	FITTING: 6MB DISC W/.062 ORIFACE
39	1	P235036	HOSE-AM-10 X 36" 10FJ 10FJ90
40	3	P265703	FITTING 10MJ 10MJ 10MB
41	1	P261554	FITTING 8MJ 8FJX90
42	1	P276444	FITTING 10MB 10FJX
43	1	P276454	FITTING 8MJ 10FJ
44	1	P276212	FITTING 10MJ 10FJX45



LOCATION	CARTRIDGE P/N	COIL P/N	SEAL KIT P/N
SV1	71.P291122	71.P291120	71.P291123
SV2	71.P291122	71.P291120	71.P291123
SV3	71.P292402	71.P291110	71.P291117
SV4	71.P292402	71.P291110	71.P291117
SV5	71.P291111	71.P291110	71.P291117
SV6	71.P292402	71.P291110	71.P291117
SV6	71.P292402	71.P291110	71.P291117
SV7	71.P292402	71.P291110	71.P291117
RELIEF	71.P292401		
EP	71.P291114		
EP	71.P291113		

(EP valve types do not interchange)
 Early EP: extends beyond the bottom of valve block
 Late EP: mounts basically flush with bottom of valve body



EP VALVE LOCATION
 (EARLY STYLE SHOWN P/N: 71.P291114)

HYDRAULIC TEST POR LOCATION (GP)

PORT LOCATIONS:

- SV1 / SV2 - M1,M2-CONVEYOR, FORWARD/REVERSE
- SV3 - A+B-LEVEL BLADE, RAISE/LOWER
- SV4 - C+D-DIGGER LIFT, RAISE/LOWER
- SV5 - E+F-HOPPER LIFT, RAISE/LOWER
- SV6 - G+H-HOPPER DUMP, OPEN/CLOSE
- SV7 - I+J-GROOMER, RAISE/LOWER

CONTROL FUNCTIONS:

- SV1 CONVEYOR FORWARD
- SV2 CONVEYOR REVERSE
- SV3 LEVELING BLADE RAISE / LOWER
- SV4 DEPTH CYLINDER (DIGGER POINT) RAISE / LOWER
- SV5 HOPPER BOOM RAISE / LOWER
- SV6 HOPPER DOOR (DUMP) OPEN / CLOSE
- SV7 GROOMER (FINISHER) RAISE / LOWER

MAIN VALVE P/N 71.P292400
USED ON MDL 4500 / 4600

PRESSURE RELIEF VALVE
 (ADJUST TO 2800 PSI)

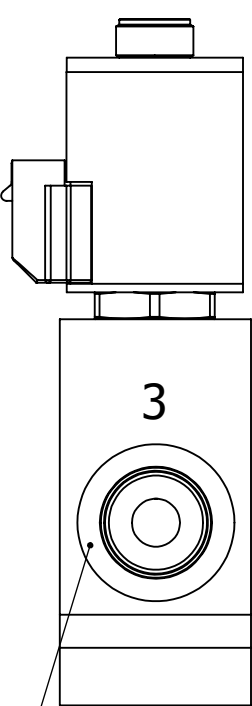
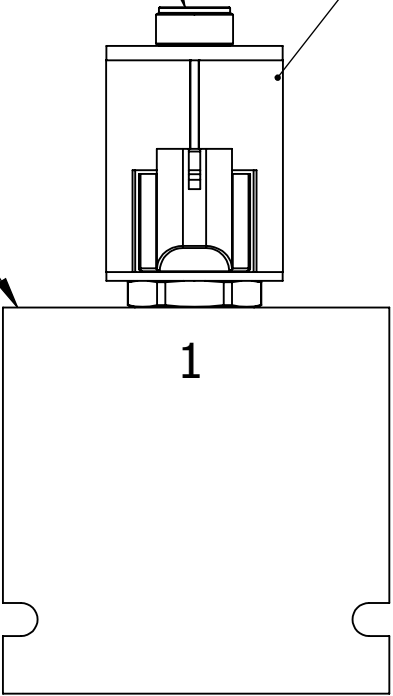
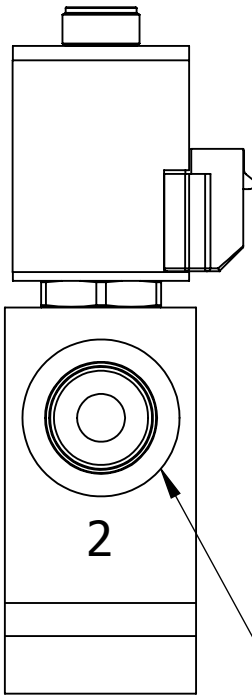
CONVEYOR SPEED PROPORTIONAL VALVE ASSEMBLY

COMPLETE VALVE ASSEMBLY
CBC P/N: 71.P292410

CARTRIDGE SPOOL VALVE
CBC P/N: 71.P292416

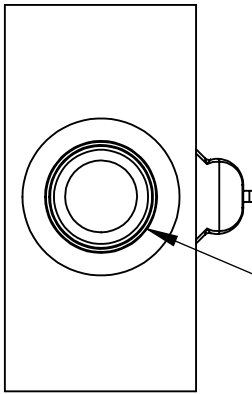
CARTRIDGE SPOOL SEAL KIT
CBC P/N: 71.P291123

12V PROPORTIONAL COIL
CBC P/N: 71.P292415



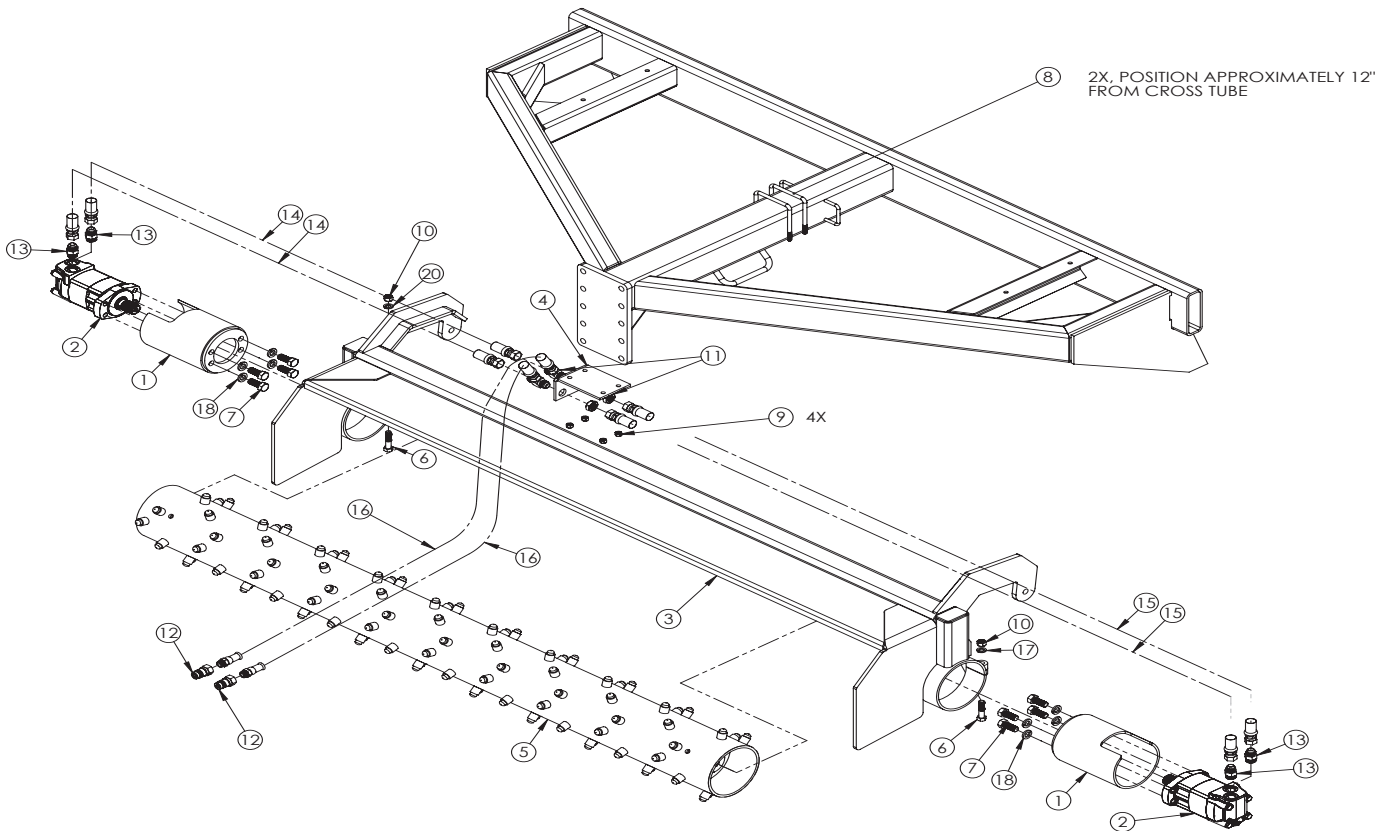
-10 O RING PORT

-10 ORING PORT
CONTROLLED FLOW



BOTTOM PORT PLUGGED

POWER ROLLER SCHEMATIC AND LEGEND



ITEM	QTY.	PART NUMBER	DESCRIPTION
1	2	450222	MOTOR HSG, WELD
2	2	450230	MOTOR, HYD MODIFIED 2000
3	1	460153	FRAME, ROLLER, 4600D
4	1	460154	PLATE, -10 BULK FITTING
5	1	480183	ROLLER WELD, 72 SB
6	2	P100809	BOLT: HEX 1/2-13 X 2-1/4"
7	8	P101006	BOLT: HEX, 5/8-11 NC X 1-1/2
8	2	P127318	U-BOLT, 3/8 X 4 X 4.62
9	4	P155450	NUT: HEX 3/8"-16NC TOP-LOCK ZP
10	2	P155850	NUT: HEX 1/2"-13NC TOP-LOCK ZP
11	2	P265705	FITTING: 10MJ BULK-10MJ-10MJ, TEE
12	2	P272661	COUPLER: NV12-58SAE-M
13	4	P276200	10MB-10MJ ADAPTER
14	2	P234050	HOSE: -8 AM X 50" 10FJX-10FJX
15	2	P234058	HOSE: -8 AM X 58" 10FJX-10FJX
16	2	P285120	HOSE: -10 AMX 120" 10MB-10FJX
17	2	P851108	WASHER: LOCK 1/2" ZP
18	8	P851110	WASHER: LOCK 5/8"