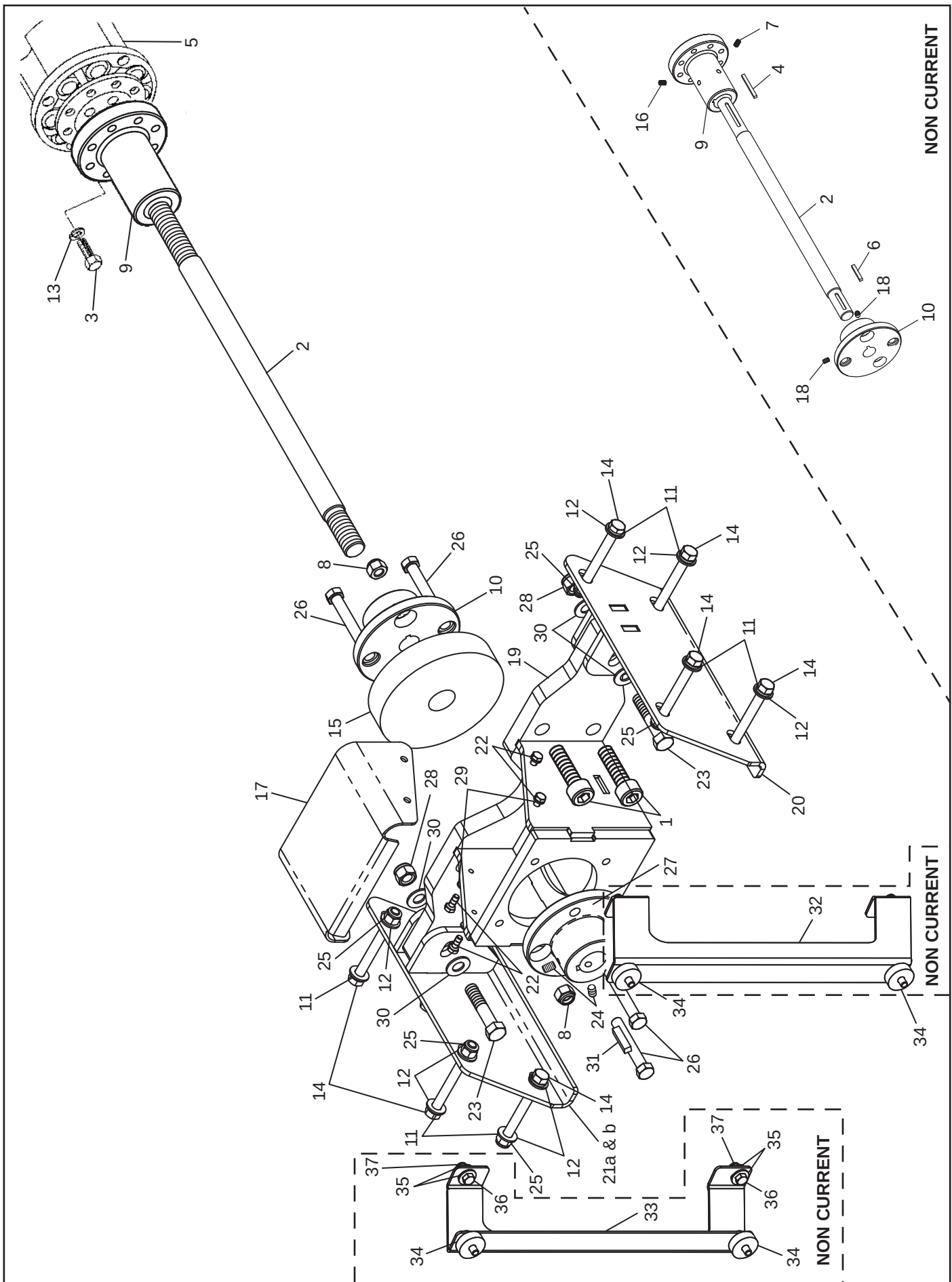
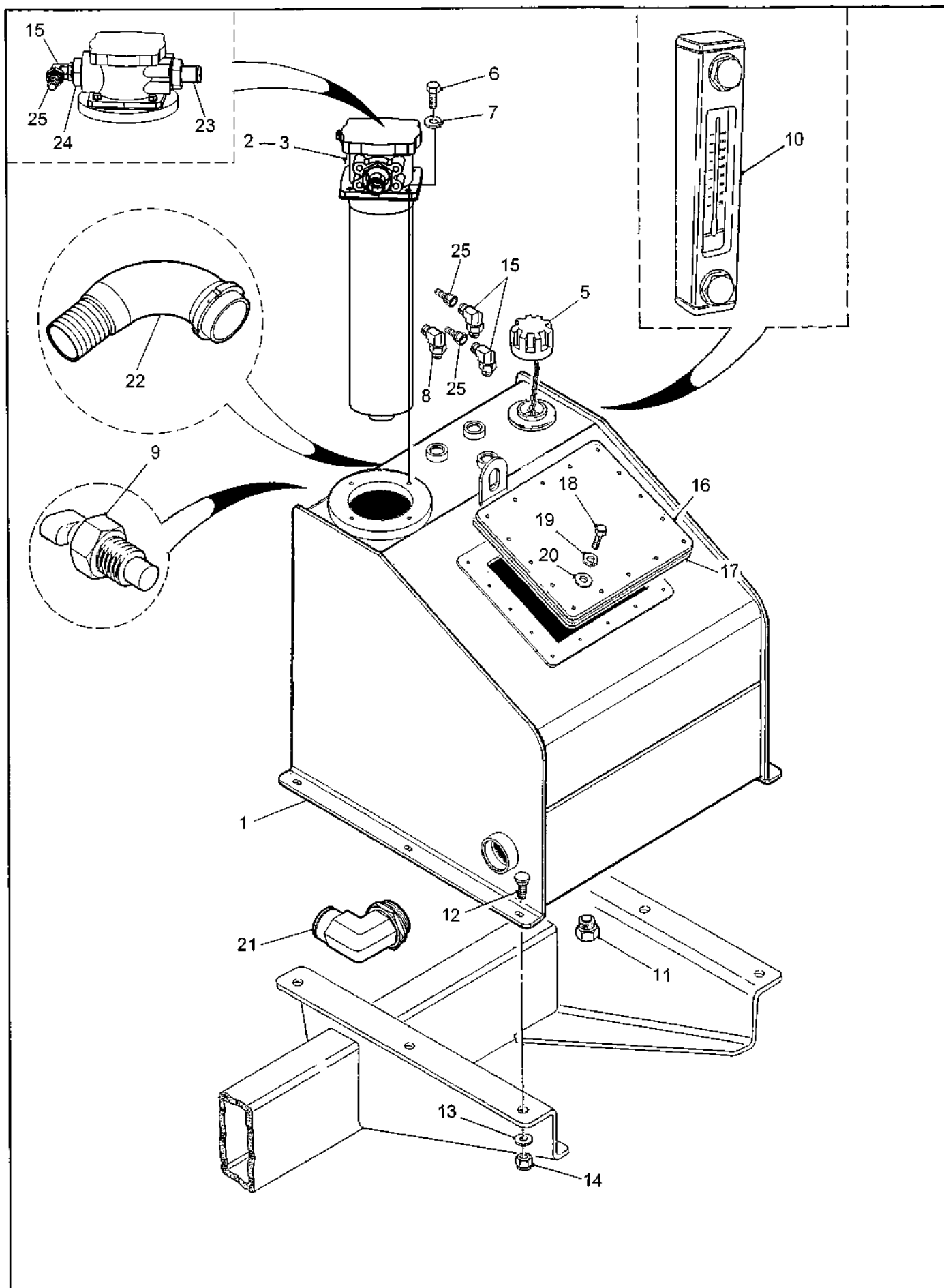
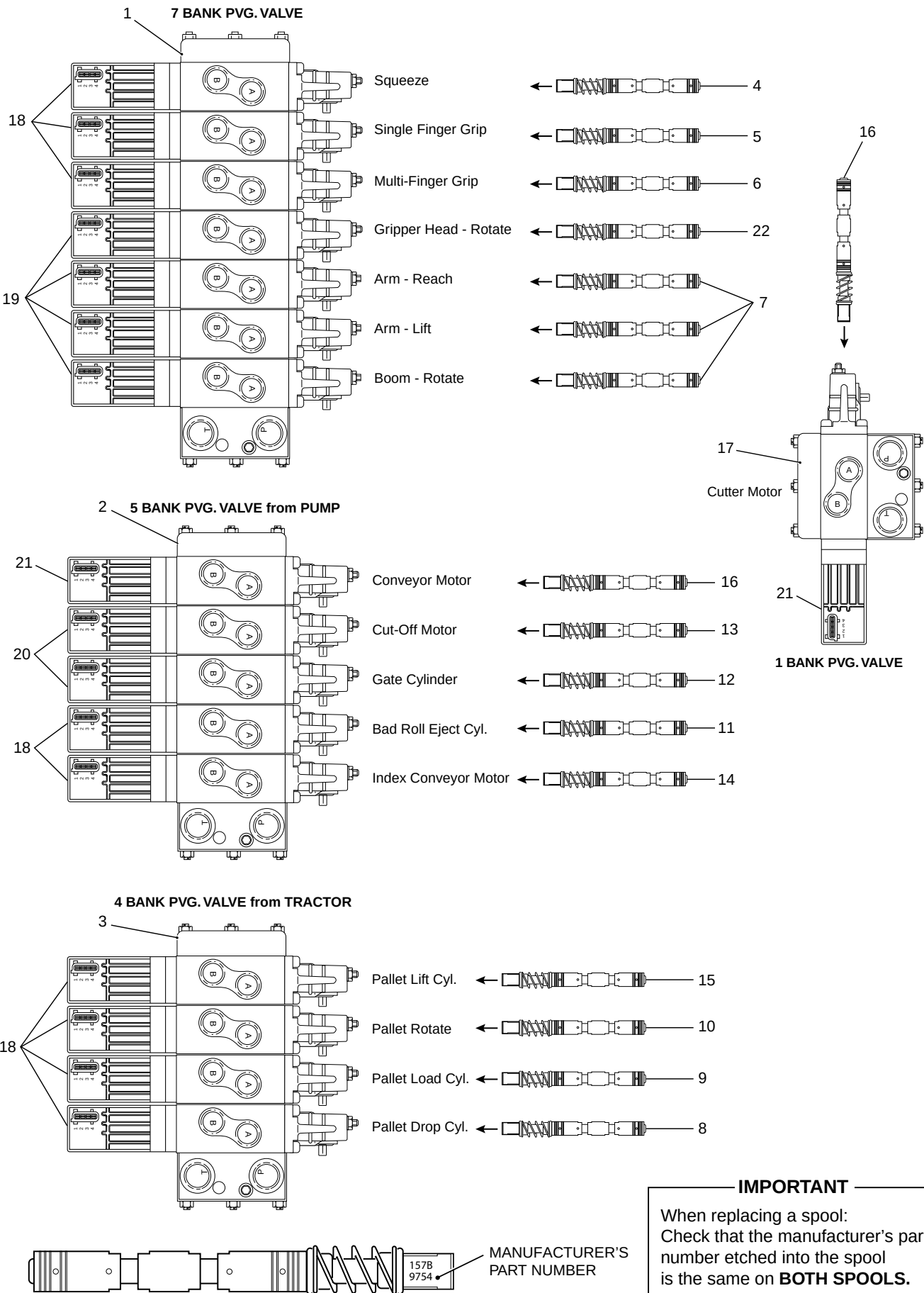




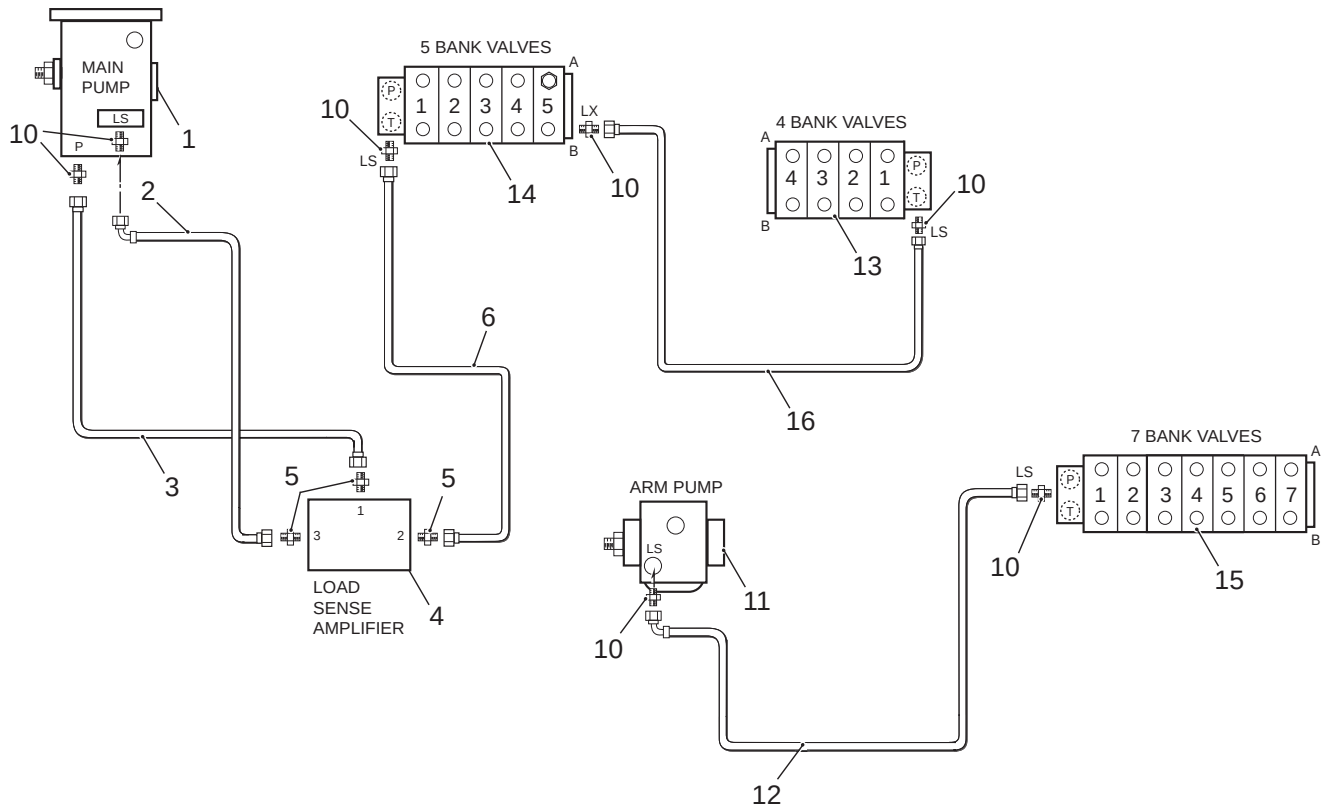
ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax John Deere 6105, 6110 & 6115 PUMP DRIVE ASSEMBLY - Current from Serial # 214 (excl. 215)	
1	G1820060	Bolt M20 x 2.5 x 60 (Metric)	4
2	R101512	Pump Drive Shaft JD (Threaded) - Current from Serial No. 253	1
	A101714	Pump Drive Shaft JD (Threaded) - N.C. from Serial No. 240 to 252	1
	A101656	Shaft - John Deere (Not Threaded) - Non Current up to Serial No. 239	1
3	G0108030	Bolt M8 x 1.25 x 30 (Metric)	8
4	F924424	Key 1/4 x 1/4 x 2 1/2 - Non Current up to Serial No. 252	1
5	KN02018	Adapter. Shaft Flange	1
6	F924416	Key 1/4 x 1/4 x 1.625 - Non Current from Serial No. 240 to 252	1
7	F140503	Set Screw 5/16 unc x 3/8 - Non Current up to Serial No. 252	2
8	F210900	Nyloc Nut 9/16 unc	4
9	R101821	Pump Shaft Flange JD 6110 (Threaded) - Current from Serial No. 315	1
	R101513	Pump Shaft Flange (Threaded) - N.C. from Serial No. 253 to 314	1
	A101571	Pump Shaft Flange - Non Current up to Serial No. 252	1
10	A101715	Coupling Flange (Threaded) - Current from Serial No. 240	1
	A101652	Coupling Flange - 1.125 Bore - Non Current up to Serial No. 239	1
11	F310808	Lockwasher 1/2 Gr.8	8
12	F330808	Flatwasher 1/2 sae Gr.8	16
13	G310800	Lockwasher M8	8
14	F040846	Bolt 1/2 unc x 4 3/4 Gr.8	8
15	KD85123	Morflex Coupling	1
16	F140502	Set Screw 5/16 unc x 1/4 - Non Current up to Serial No. 252	1
17	A500314	Pump Coupling Guard	1
18	F140503	Set Screw 5/16-18 unc x 3/8 - Non Current up to Serial No. 239	2
19	A300380	JD Pump Mounting Bracket	1
20	A300381	Front Pump Mount Support L.H.	1
21a	R300337	FMP Filter Support Bracket R.H. - Current	1
21b	A300382	Front Pump Mount Support R.H. W/A - Non Current	1
22	F040506	Bolt 5/16 unc x 3/4 Gr.8	4
23	F041030	Bolt 5/8 unc x 3 Gr.8	2
24	F140604	Set Screw 3/8 unc x 1/2	2
25	F210808	Nyloc Nut 1/2 unc Gr.8	8
26	F040934	Bolt 9/16 unc x 3 1/2 Gr.8	4
27	A101653	Coupling Flange - 1 1/2 Bore	1
28	F211008	Nyloc Nut 5/8 unc Gr.8	2
29	F310508	Lockwasher 5/16 unc Gr.8	6
30	F331008	Flatwasher 5/8 sae Gr.8	4
31	F926615	Key 3/8 x 3/8 x 1.50	1
32	R101281	Cooler Spacer Bracket R.H. - Non Current from Serial No. 217 to 268	1
33	R101282	Cooler Spacer Bracket L.H. - Non Current from Serial No. 217 to 268	1
34	R101291	Cooler Spacer - Non Current from Serial No. 217 to 268	4
35	F320608	Flatwasher 3/8 uss Gr.8 - Non Current from Serial No. 217 to 268	8
36	F040610	Bolt 3/9 unc x 1 Gr.8 - Non Current from Serial No. 217 to 268	4
37	F210608	Nyloc Nut 3/8 unc Gr.8 - Non Current from Serial No. 217 to 268	4



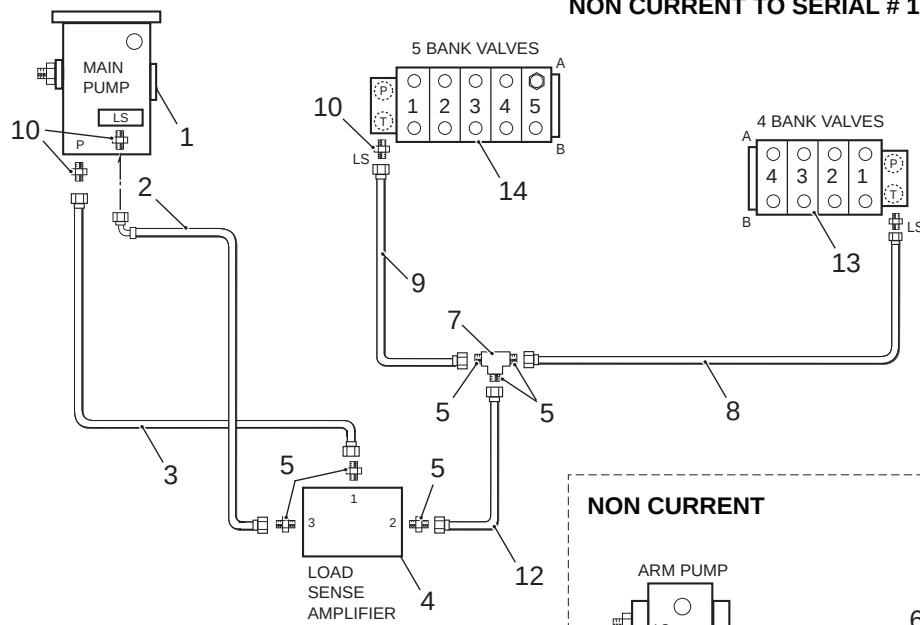
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere HYDRAULIC TANK ASSEMBLY			
1	R300025	Hydraulic Tank	1
2	KH40059	Filter Element (Service Only)	1
3	KH40058	Filter Assembly	1
5	KH40003	Filter/Breather Assembly	1
6	F040612	Bolt 3/8 unc x 1 1/4 Gr.8	4
7	F310600	Lockwasher 3/8	4
8	6-12-070220	Fitting. No. 6 JIC to No. 12 ORB 90 Deg.	1
9	4134628	Temperature Sensor	1
10	KH10005	Temperature Level Gauge	1
11	KH00036	Magnetic Plug	1
12	F020614	Carriage Bolt 3/8 unc x 1 1/2	6
13	F320600	Washer 3/8	6
14	F210600	Locknut 3/8 unc	6
15	12-12-070220	Fitting. Straight Thread 90 Deg. Elbow 37 Deg. Flare - Sae ORB	2
16	A100137	Access Cover	1
17	A100143	Gasket	1
18	F040406	Bolt 1/4 unc x 3/4 Gr.8	16
19	F310400	Lockwasher 1/4	16
20	F320400	Flatwasher 1/4	16
21	KH00309	Fitting. 32 SAE x 2 in. Beaded Hose Barb 90 Deg.	1
22	KH00311	Fitting. BSPP Swivel 90 deg. To Hose Barb Size 48	1
23	20-24-430192	Fitting. Beaded Tube Hose End Straight	1
24	A101142	Adapter Bushing Hydraulic Filter Return Port #12	1
25	KH01109	Hose End - B Series - SAE 37 Deg. JIC Female Swivel	3



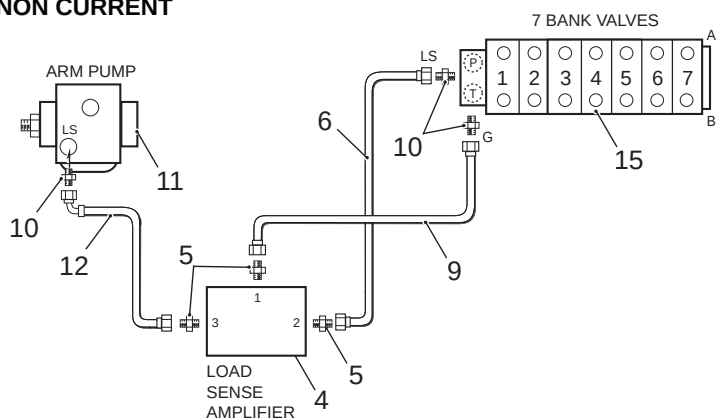
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere HYDRAULIC PVG VALVE BANKS Manufacturer's Part #			
1	KH20194	7 Bank from Arm Pump	1
2	KH20218	5 Bank from Main Pump	1
3	KH20219	4 Bank from Main Pump	1
4	KH20253	Spool. Squeeze 157B7025	1
5	KH20227	Spool. Mult-Finger Grip 157B7022	1
6	KH20254	Spool. Single Finger Grip 157B7021	1
7	KH20244	Spool. Arm - Reach 157B9751	1
		Spool. Arm - Lift 157B9751	1
		Spool. Boom Rotate 157B9751	1
8	KH20255	Spool. Pallet Load 157B9400	1
9	KH20216	Spool. Pallet Drop 157B9403	1
10	KH20256	Spool. Pallet Rotate 157B7105	1
11	KH20257	Spool. Bad Roll Eject 157B9401	1
12	KH20249	Spool. Rear Gate Open/Close 157B9405	1
13	KH20258	Spool. Cut-Off Motor 157B9101	1
14	KH20255	Spool. Index Conveyor Motor 157B9400	1
15	KH20259	Spool. Pallet Lift 157B9402	1
16	KH20235	Spool. Conveyor Motor 157B7103	1
		Spool. Cutter Motor 157B7103	1
17	KH20217	1 Bank - Cutter Motor from Tractor	1
18	KH20260	Coil. Squeeze	1
		Coil. Mult-Finger Grip	1
		Coil. Single Finger Grip	1
		Coil. Pallet Load	1
		Coil. Pallet Drop	1
		Coil. Pallet Rotate	1
		Coil. Bad Roll Eject	1
		Coil. Index Conveyor Motor	1
		Coil. Pallet Lift	1
19	KH20153	Coil. Gripper Head Rotate	1
		Coil. Arm - Reach	1
		Coil. Arm - Lift	1
		Coil. Boom Rotate	1
20	KH20262	Coil. Rear Gate Open/Close	1
		Coil. Cut-Off Motor	1
21	KH20261	Coil. Conveyor Motor	1
		Coil. Cutter Motor	1
22	KH20148	Spool. Gripper Head Rotate 157B9750	1



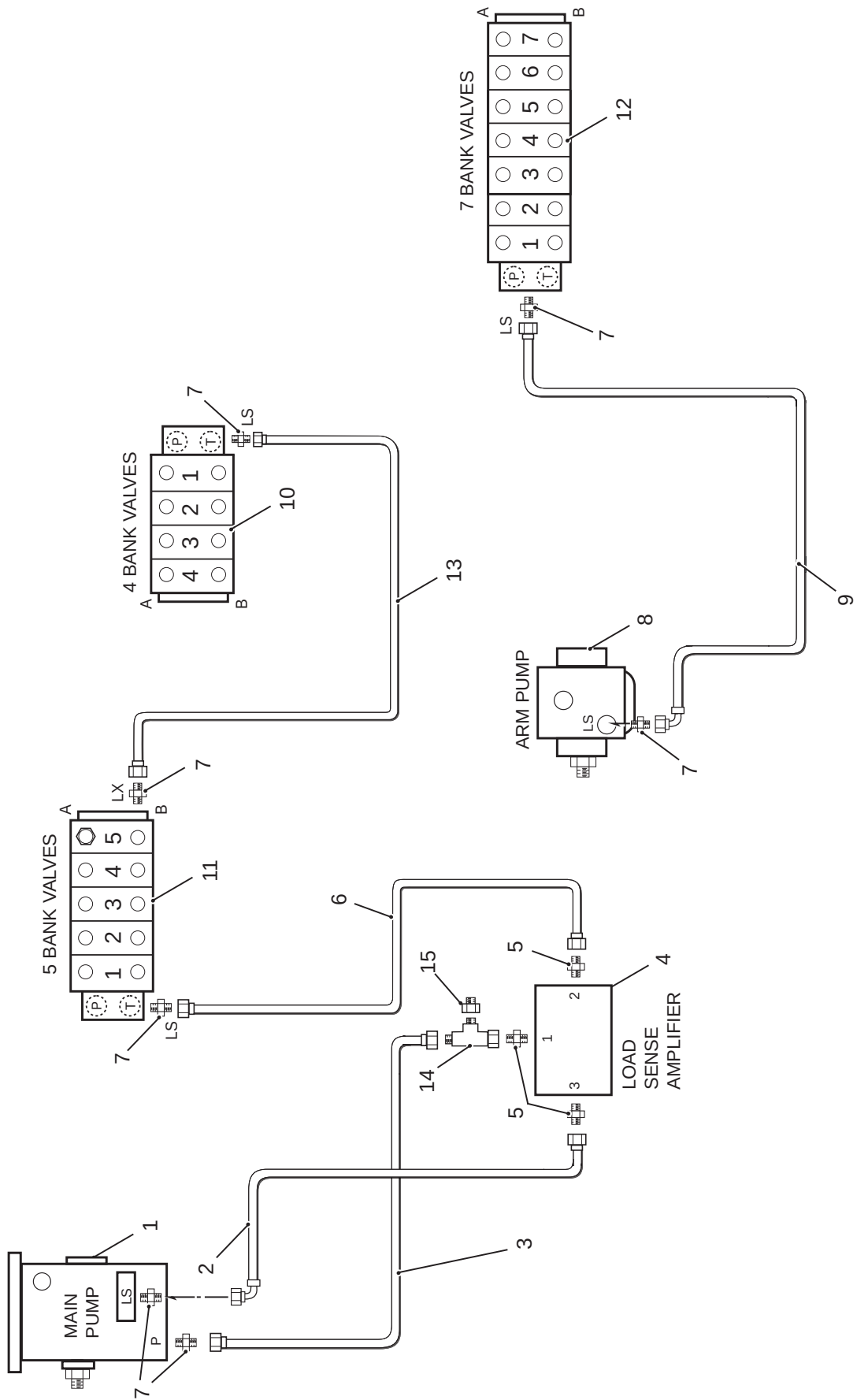
NON CURRENT TO SERIAL # 170



NON CURRENT



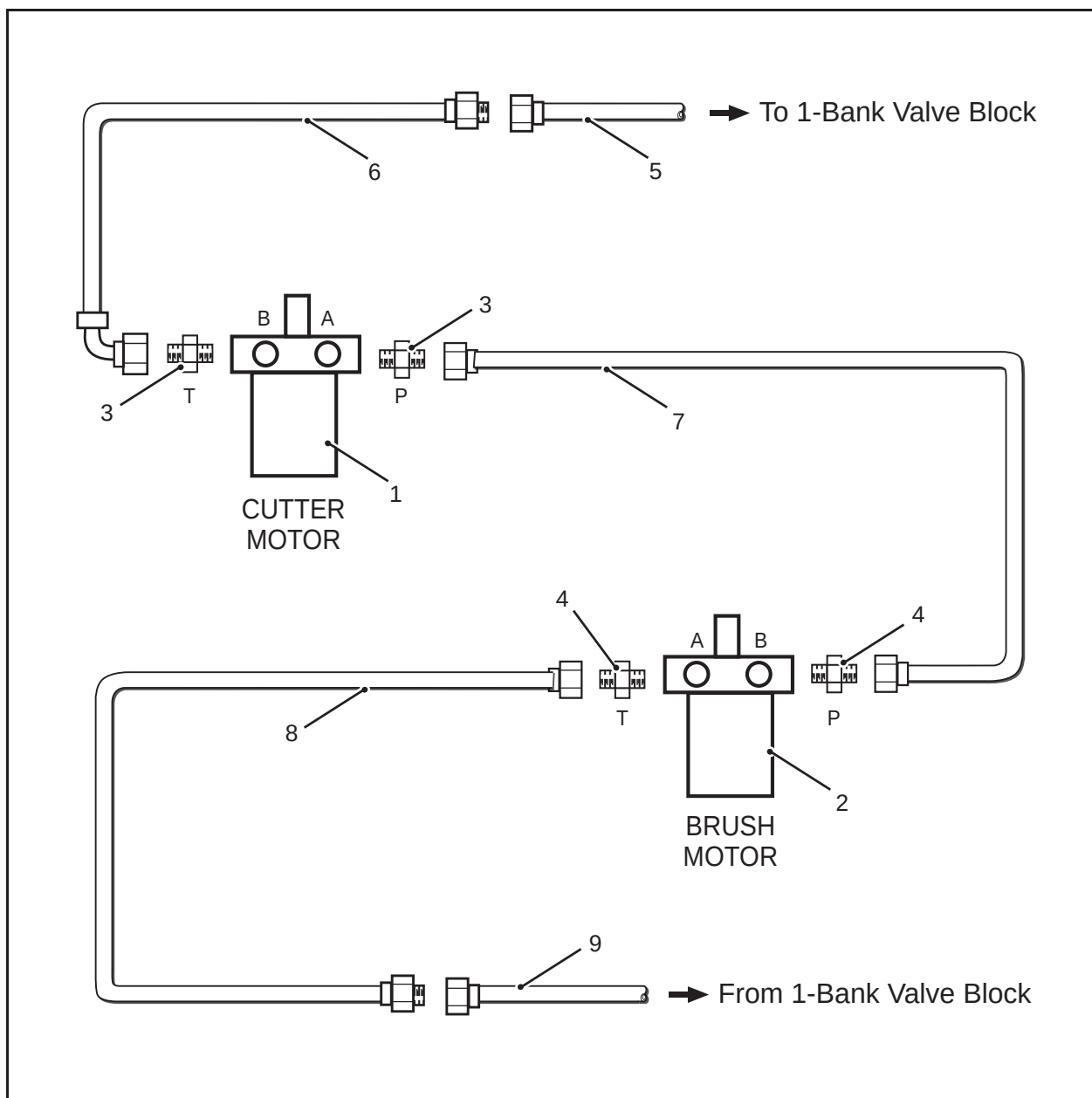
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Load Sense Amplifier Connections - Current from Serial Number 171			
1	KH30029	Main Pump	1
2	A200015	Hose Assembly. Main Pump Load Sense to Amplifier Port '3'	1
3	A200016	Hose Assembly. Main Pump Load Sense to Amplifier Port '1'	1
4	KH20125	Load Sense Amplifier	1
5	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight	3
6	R200009	Hose Assembly. Load Sense Main Pump to Manifold - Current	1
		Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump - N.C.	1
7	KH20176	Shuttle Valve - Non Current to Serial # 170	1
8	R200093	Hose Assembly. Shuttle Valve to 5 Bank Valve Load Sense - N.C. #170	1
9	R200092	Hose Assembly. Shuttle Valve to 4 Bank Valve Load Sense - N.C. #170	1
		Hose Assembly. - Non Current	1
10	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	7
11	KH30043	Arm Pump	1
12	R200006	Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump - Current	1
		Hose Assembly. Non Current	2
13	KH20219	4 Bank Valves	1
14	KH20218	5 Bank Valves	1
15	KH20194	7 Bank Valves	1
16	R200104	Hose Assembly. 5 Bank LX to 4 Bank LS - Current	1



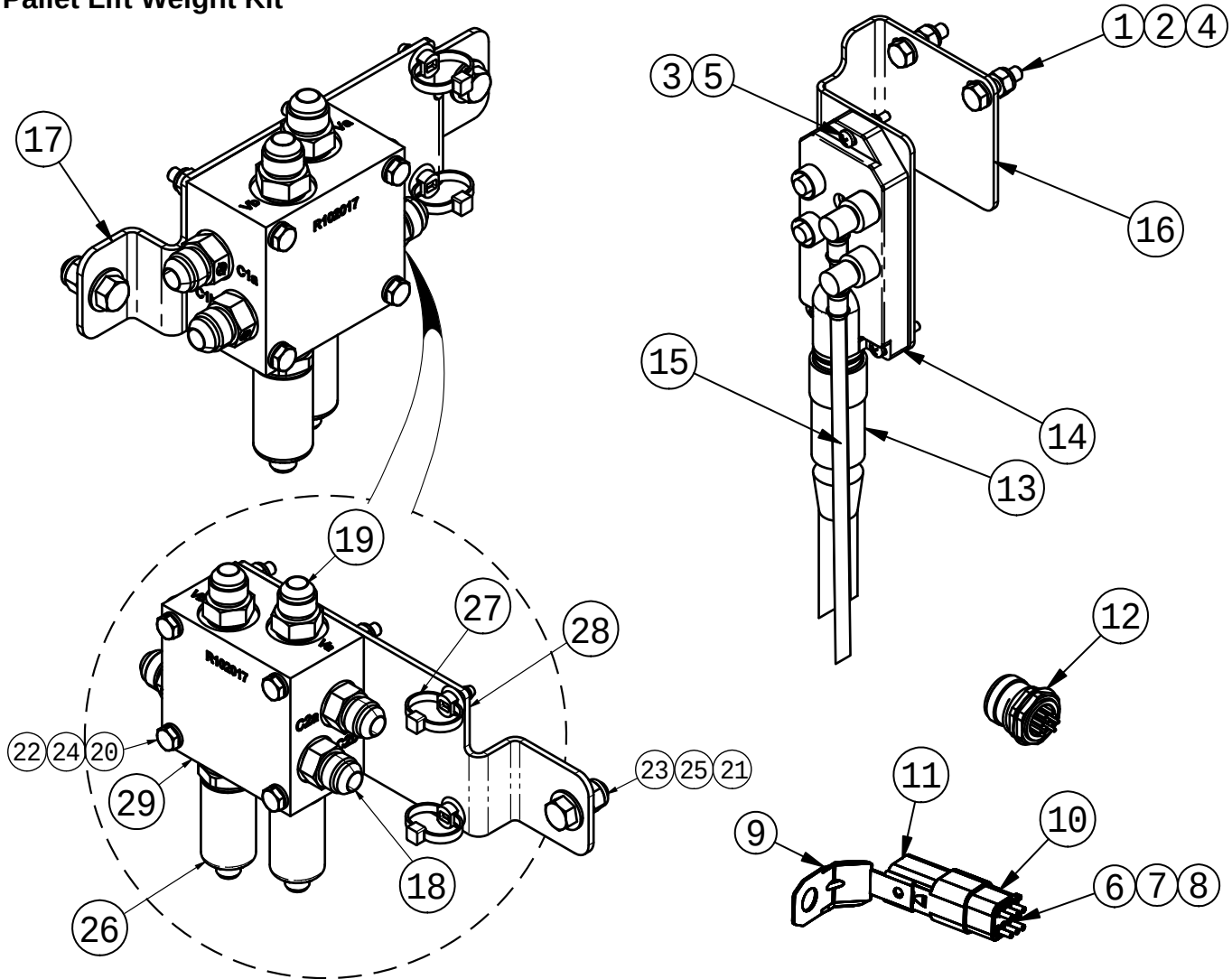
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 & 6115 Hydraulic System - Load Sense Amplifier Connections			
1	KH30029	Main Pump	1
2	R200105	Hose Assembly. Main Pump Load Sense to Amplifier Port '3'	1
3	R200106	Hose Assembly. Main Pump Load Sense to Amplifier Port '1'	1
4	KH20125	Load Sense Amplifier	1
5	KH00113	Fitting. No. 4 JIC to 1/4 BSPP Straight	3
6	R200234	Hose Assembly. Load Sense Main Pump to Manifold	1
7	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	7
8	KH30043	Arm Pump	1
9	R200265	Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump	1
10	KH20219	4 Bank Valves	1
11	KH20218	5 Bank Valves	1
12	KH20194	7 Bank Valves	1
13	R200104	Hose Assembly. 5 Bank LX to 4 Bank LS	1
14	4-4-4-070432	Fitting. No. 4 JIC Swivel Run Tee	1
15	KH00184	No. 4 JIC Diagnostic Port	1

ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Connections Double Sided Pallet Injector - Current from Serial Number 171			
1	R200098	Hose Assembly. Rotary Actuator to 4 Bank Valves	1
2	R200099	Hose Assembly. 4 Bank Valves to Rotary Actuator	1
3	R200228	Hose Assembly. Relief Valve A to 4 Bank Valves	1
4	R200231	Hose Assembly. 4 Bank Valves to Relief Valve B	1
5	R200232	Hose Assembly. Relief Valve B from 4 Bank Valves	1
6	R200227	Hose Assembly. 4 Bank Valves to Relief Valve A	1
7	R200229	Hose Assembly. Relief Valve to Pallet Load Cylinder	1
8	R200230	Hose Assembly. Relief Valve to Pallet Load Cylinder	1
9	R200225	Hose Assembly. Relief Valve to Push Bar Cylinder	1
10	R200226	Hose Assembly. Relief Valve to Push Bar Cylinder	1
11	KH20211	Cross Over Relief Valve	2
12	KH31009	Rotary Actuator	1
13	6-8-070120	Fitting. No. 6 JIC to No. 8 ORB Striaght	4
14	8-8-070120	Fitting. No. 8 JIC to No. 8 ORB Striaght	4
15	8-10-070220	Fitting. No. 8 JIC to No. 10 ORB 90 deg. Elbow	2
16	6-10-070120	Fitting. No. 6 JIC to No. 10 ORB Striaght	4
17	4-6-070123	Fitting. No. 4 JIC Male to No. 6 JIC Female	2
18	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Striaght	2
19	8-6-070120	Fitting. No. 8 JIC to No. 6 ORB Striaght	1
20	8-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	1
NOTE All Hydraulic Parts not listed on this page are the same as the Single Sided Pallet Injector. See Pages: 3-01 to 3-26 for all Single Sided Pallet Injector Hydraulic info.			

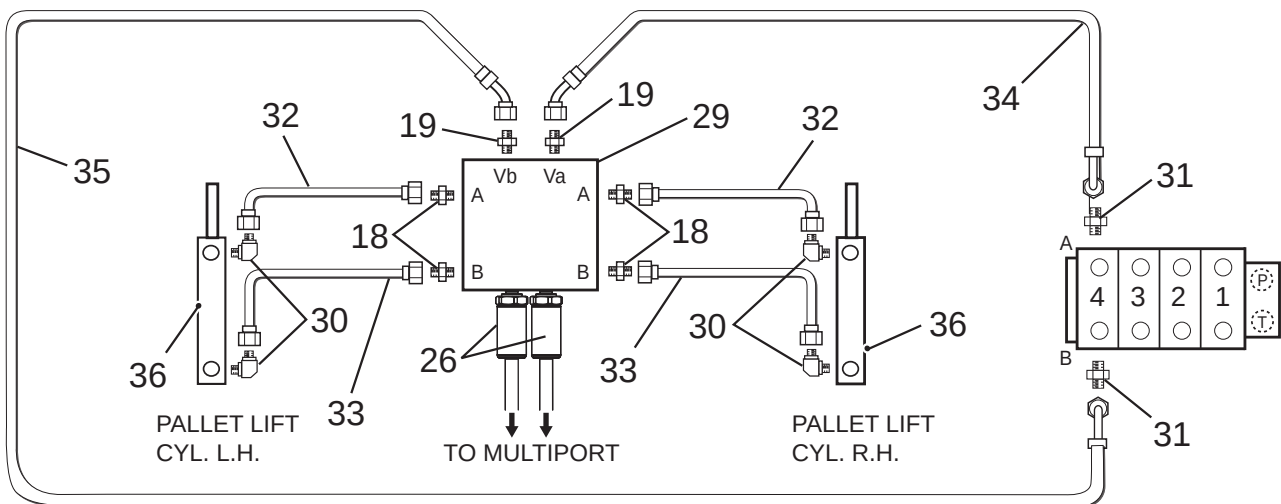
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Brush Option Connections - Current from Serial Number 171			
1	KH30013	Cutter Motor	1
2	KH30014	Brush Motor	1
3	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	2
4	8-10-070220	Fitting. No. 8 JIC to No. 10 ORB 90 Deg. Elbow	2
5	R200088	Hose Assembly. Cutter Motor - Female End Pressure	1
6	H500632	Hose Assembly. Cutter Motor to Tractor	1
7	H500631	Hose Assembly. Brush Motor to Cutter Motor	1
8	R200111	Hose Assembly. Tractor to Brush Motor	1
9	R200087	Hose Assembly. Brush Motor - Male End Return	1



Pallet Lift Weight Kit



Pallet Lift Weight Hydraulic Diagram



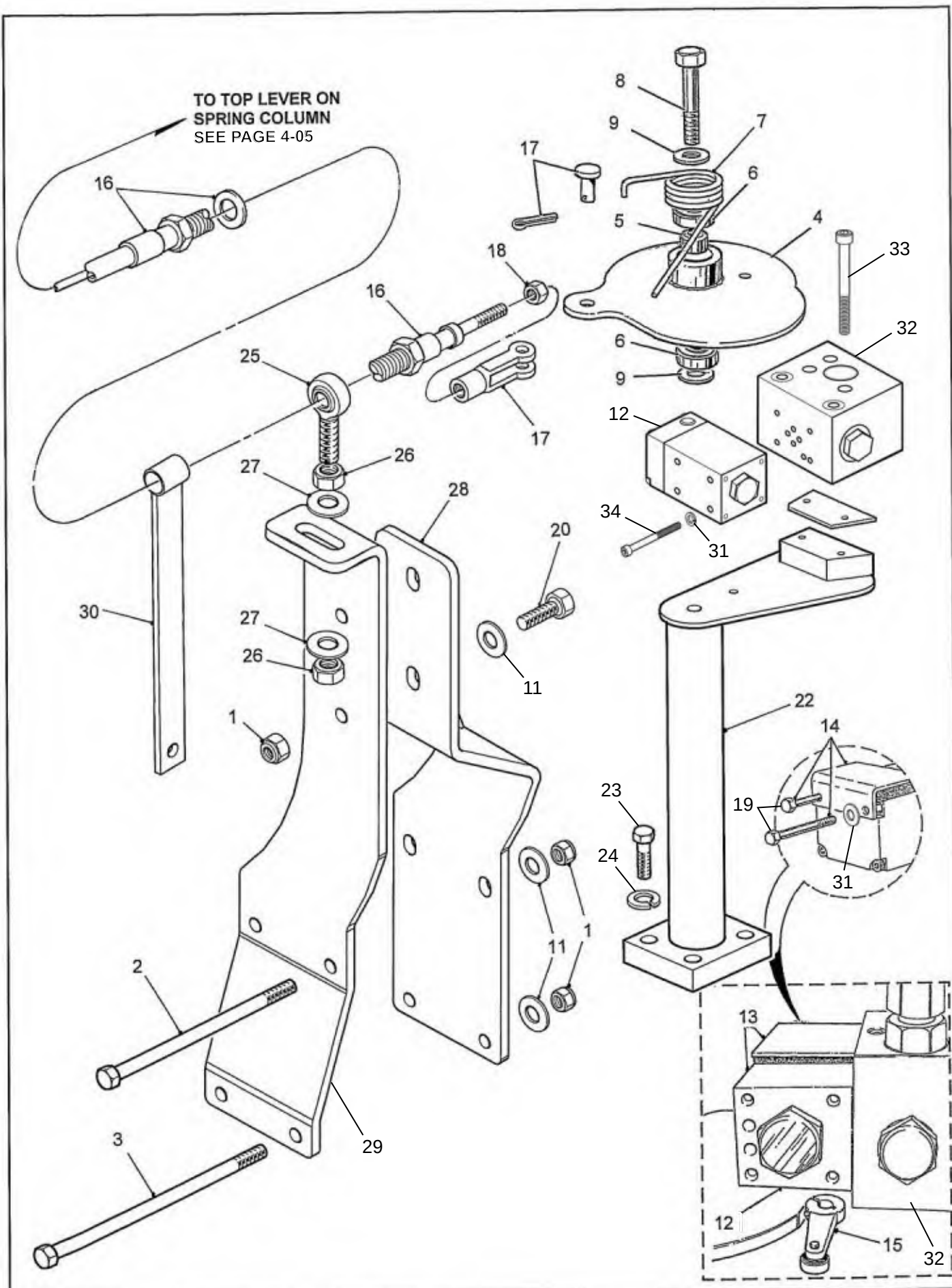
ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax John Deere Pallet Lift Weight Kit & Hydraulic Diagram (Option)	
1	F040410	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8	2
2	F210400	1/4-20 UNC NYLOC NUT	2
3	F280100	NUT 8-32 UNC NYLON LOCK ST. STL	3
4	F330400	1/4 SAE FLAT WASHER	2
5	F570110	SPAN HD PHIL 8-32 X 1.00 LG. ST STL	3
6	KE30005	DEUTSCH SOLID PIN 16, 18, 20 AWG	6
7	KE30015	DEUTSCH SOCKET SIZE 16	6
8	KE30030	WEDGE - 6 PIN DT RECEPTACLE	1
9	KE30047	MOUNTING BRACKET - DEUTSCH PLUG	1
10	KE30058	DEUTSCH DT 6 WAY PLUG	1
11	KE30129	DEUTSCH RECEPTACLE 6 PIN DT 2 - 3 PIN BUS	1
12	KE60109	MAIN BOX CONNECTOR EIGHT PORT	1
13	KE60146	M23 CABLE 90° FEMALE STRAIGHT FEMALE 2M LONG	1
14	KE60162	WIRE HARNESS - CONNECTOR 4 PORT MULTI BLOCK NO LED	1
15	KE60188	CABLE - M12 MALE 90° FEMALE STRAIGHT 1M LG.	2
16	R102016	PALLET LIFT MULTI PORT BRACKET	1
17	R500458	PALLET LIFT MANIFOLD ASSEMBLY W TRANSDUCER	1
18	8-6-070120	FITTING - #8 JIC MALE TO #6 ORB MALE	4
19	8-8-070120	#8 JIC TO #8 ORB STRAIGHT	2
20	F040426	BOLT-1/4 UNC X 2 3/4 GR 8	4
21	F040610	BOLT - 3/8 UNC x 1.0 Gr 8	2
22	F210400	1/4-20 UNC NYLOC NUT	4
23	F210600	HEX LOCK NUT - 3/8 -16 UNC	2
24	F330400	1/4 SAE FLAT WASHER	4
25	F330600	FLAT WASHER SAE 3/8	2
26	KH20154	PRESSURE TRANSDUCER - M12 CONNECTION	2
27	KX99150	CABLE TIE 8.0 IN. W/ FIR TREE 0.25	2
28	R102015	PALLET LIFT MANIFOLD BRACKET	1
29	R102017	PALLET LIFT MANIFOLD	1
30	6-8-070220	Fitting. No. 6 JIC to No. 8 - 90 deg. Elbow	4
31	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	2
32	R200070	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
33	R200071	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
34	R200079	Hose Assembly. Tee-Pallet Lift Cylinders to 4 Bank Valves	1
35	R200069	Hose Assembly. 4 Bank Valves to Tee-Pallet Lift Cylinders	1
36	4132569	Cylinder - Pallet Lift L.H. & R.H.	2
	4160105	Seal Kit. - Pallet Lift Cylinder	1
NOTE Items 18-29 are available as Pallet Lift Maniflod Assembly w/Transducer: R500458			

SECTION 4 AUTO-STEER

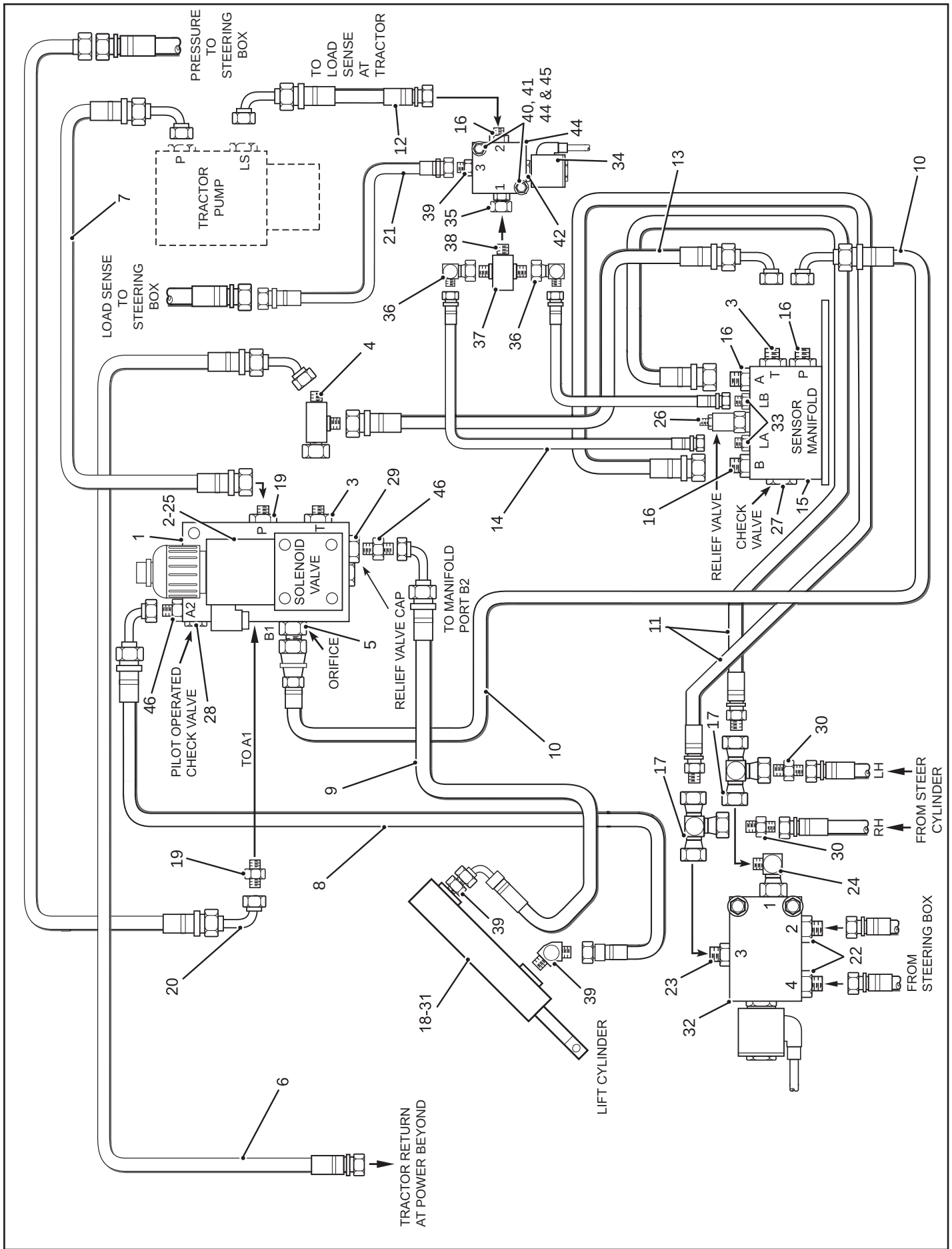
Sensor Valve & Cam Mount	4-01
Hydraulic System	4-03
Spring Column, Reset Cylinder & Shoe Arm	4-05

ELECTRONIC AUTO-STEER - John Deere 6105 & 6115

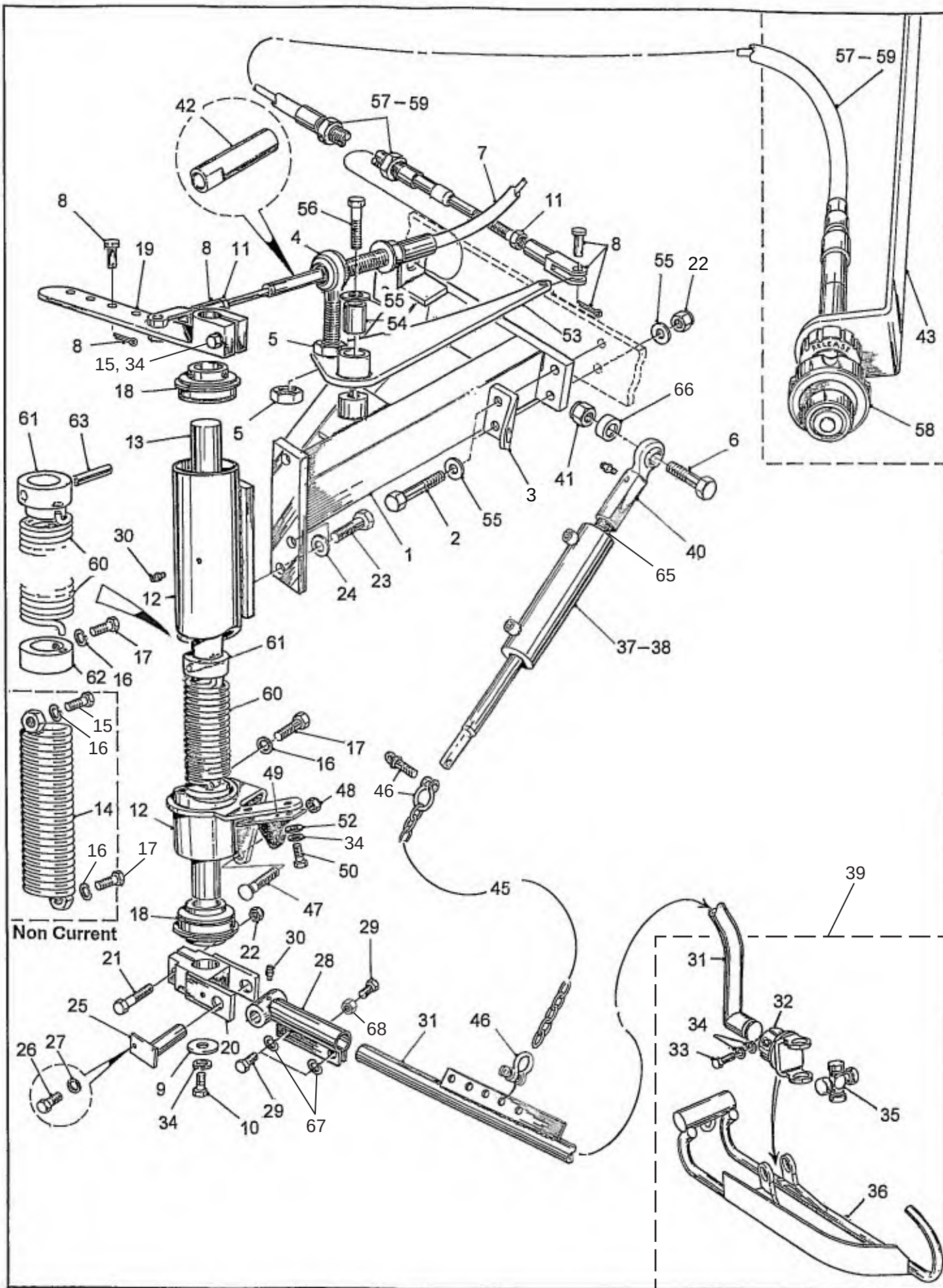
Auto-Steer Hydraulics - John Deere 6105 & 6115	4-09
King Pin Sensor Mounting Assembly - John Deere 6105 & 6115	4-11
Spring Column, Reset Cylinder & Shoe Arm - John Deere 6105 & 6115	4-13



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD AUTO-STEER SENSOR VALVE & CAM MOUNT	
1	F210800	Locknut 1/2 unc	6
2	F041254	Bolt 1/2 unc x 5 1/2 Gr.8	2
3	F041264	Bolt 1/2 unc x 6 1/2 Gr.8	2
4	H310014	Cam - Auto-Steer	1
5	H110116	Spacer - Cam Bearings	1
6	KB16001	Bearing - Auto-Steer Cam	2
7	H110113	Spring - Auto-Steer Cam	1
8	G0112070	Bolt M12 x 1.75 x 70 (Metric)	1
9	F380700	Washer	2
11	F330800	Washer 1/2 SAE	6
12	KH20051	Sensor Valve	1
13	H510079	Sensor Valve Assembly	1
14	H510109	Sensor Valve Cover Assembly	1
15	H510111	Cam Roller Arm. Sensor Valve	1
16	KD10056	Cable Ass'y. (Cam to Spring Column) - See Page 4-05	1
17	KD10026	Clevis - Cable End (c/w Pin & Cotter Pin)	1
18	F220450	Jam Nut 1/4 unf	1
19	G0105045	Bolt M5 x .8 x 45 Gr.8.8 (Metric)	2
20	F040814	Bolt 1/2 unc x 1 1/2 Gr.8	2
21	H111196	Shim. Sensor Valve Mount	1
22	A300276	Sensor Valve Mount	1
23	G0412055	Bolt M12 x 55 Metric	4
24	G311200	Lockwasher M12	4
25	KB16010	Rod End	1
26	F221050	Jam Nut 5/8 unf	2
27	F321000	Washer 5/8	2
28	A300296	Mount Brace	1
29	A101366	Cable Mount	1
30	A300332	Cable Support	1
31	F310200	Lock Washer #10	6
32	H500013	Sensor Manifold	1
33	F180426	Bolt 1/4 unc x 2 3/4 Soc. Hd.	2
34	F180216	Bolt 10 unc x 1 3/4 Soc. Hd.	4



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD AUTO-STEER HYDRAULIC SYSTEM	
1	H500007	Manifold	1
2	KH20071	Solenoid Valve	1
3	6-8-070120	Fitting. No. 6 JIC to No. 8 ORB Straight	1
4	6-6-6-070432	Fitting. No. 6 JIC Swivel Run Tee	1
5	R500113	Fitting. No. 6 JIC to No. 8 ORB with 0.062 in. Orifice	1
6	R200044	Hose Assembly. A/S Manifold 'T' to Tractor Return (Power Beyond)	1
7	R200042	Hose Assembly. A/S Manifold 'P' to Steering Box Fitting	1
8	R200035	Hose Assembly. Cylinder Rod End to A/S Manifold A2	1
9	R200036	Hose Assembly. Cylinder Cap End to A/S Manifold B2	1
10	R200037	Hose Assembly. A/S Manifold B1 to Sensor Manifold 'P'	1
11	R200034	Hose Assembly. Sensor Manifold to Lockout Valve	2
12	R200040	Hose Assembly. Tractor LS Fitting to Selector Valve Port '2'	1
13	R200038	Hose Assembly. A/S Manifold 'T' to Sensor Manifold 'T'	1
14	R200039	Hose Assembly. Sensor Manifold to Shuttle Valve	2
15	H500013	Sensor Manifold	1
16	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	4
17	8-8-8-070408	Fitting - Swivel Tee No.8 JIC	2
18	4160414	Auto-Steer Reset Cylinder	1
19	8-8-070120	Fitting. No. 8 JIC to No. 8 ORB Straight	2
20	R200043	Hose Assembly. A/S Manifold A1 to Steering Box Hose @ Pump	1
21	R200041	Hose Assembly. Tractor LS Hose to Selector Valve Port '3'	1
22	8-6-520120	Fitting. No. 8 ORF Male to No. 6 ORB Straight	2
23	8-6-070120	Fitting. No. 8 JIC to No. 6 ORB Straight	1
24	8-6-070220	Fitting. No. 8 JIC to No. 6 ORB 90 deg. Elbow	1
25	KH70048	Seal Kit - Solenoid Valve (KH20071)	1
26	KH20036	Relief Valve for H500013	1
27	KH20056	Check Valve for H500013	2
28	KH20042	Check Valve for H500007	1
29	KH20052	Relief Valve Kit	1
30	KH00121	Fitting. No. 8 JIC Male to No. 8 ORF Swivel Female	2
31	KH70108	Seal Kit -Reset Cyl	A/R
32	4141230	Block Manifold Assembly	1
33	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight	2
34	KH20175	Coil - Solenoid Valve	1
35	6-6-070181	Fitting. No. 6 JIC Swivel Female to No. 6 ORB 90 deg. Elbow	1
36	4-4-070220	Fitting. No. 4 JIC to No. 4 ORB 90 deg. Elbow	2
37	KH20176	Shuttle Valve	1
38	6-4-070120	Fitting. No. 6 JIC to No. 4 ORB Straight	1
39	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	3
40	F040432	Bolt 1/4 unc x 3 1/4 Gr.8	2
41	F320408	Washer 1/4 Gr.8 uss Structural	2
42	KH20173	Solenoid Valve	1
43	KH20174	Selector Valve - Body	1
44	R100487	Spacer	2
45	F210408	Nyloc Nut 1/4-20 Gr.8 unc	2
46	4-6-070220	Fitting. No. 4 JIC to No. 6 ORB 90 deg. Elbow	2



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD SPRING COLUMN / RESET CYLINDER / SHOE ARM			
1	H310134	Spring Column Mount	1
2	F040820	Bolt 1/2 unc x 2 GR. 8	4
3	A101135	Cylinder Mount	1
4	KB16010	Rod End	1
5	F221050	Jam Nut 5/8 unf	2
6	F041230	Bolt 3/4 unc x 3 GR. 8	1
7	KD10056	Cable Assy. (Top Lever Arm to Cam)	1
8	KD10026	Clevis - Cable End	2
9	H100045	Retainer Washer	1
10	F040606	Bolt 3/8 unc x 3/4 Gr.8	1
11	F220450	Jam Nut 1/4 unf	2
12	4160320	Spring Column	1
13	H110334	Shaft-Spring Column	1
14	H310054	Torsion Spring - See Note 1	1
15	F040612	Bolt 3/8 unc x 1 1/4 Gr. 8	2
16	F310608	Lockwasher 3/8 Gr.8	2
17	F040606	Bolt 3/8 unc x 3/4 Gr. 8	1
18	KB20510	Bearing c/w Snap Ring	2
19	A100672	Top Lever Arm	1
20	H310055	Support Pivot - Ski Arm	1
21	F040824	Bolt 1/2 unc x 2 1/2 Gr. 8	1
22	F210808	Locknut 1/2 unc Gr.8	5
23	F040810	Bolt 1/2 unc x 1 Gr. 8	3
24	F310808	Lockwasher 1/2 Gr.8	3
25	H310056	Pivot Pin	1
26	F040404	Bolt 1/4 unc x 1/2 Gr. 8	1
27	F310408	Lockwasher 1/4 unc Gr.8	1
28	H310052	Mounting Pivot - Shoe Arm	1
29	F040510	Bolt 5/16 unc x 1 Gr. 8	3
30	KM11400	Grease Fitting	2
31	015110	Arm - Guide Shoe	1
32	H310039	Split Clamp Yoke	1
33	F040612	Bolt 3/8 unc x 1 1/4 Gr. 8	1
34	F310608	Lockwasher 3/8 Gr.8	5
35	KD91103	Crosspiece c/w Bearings, Seals & Lube Fitting	1
36	H310061	Guide Shoe - Auto-Steer	1
37	4160414	Reset Cylinder (See Auto-Steer Hydraulic System for Fittings)	1
38	KH70108	Seal Kit - Reset Cylinder	1
39	H510012	Ski Assembly	1
40	KB16011	Rod End (MW12)	1
41	F211200	Locknut 3/4 unc	1
42	A101279	Cable Guide	1
43	A100692	Mount. Fine Adjust Cable	1
45	H110693	Chain - Shoe Arm Lift	1
46	KC01002	Shackle	2
47	F020820	Carriage Bolt 1/2 unc x 2	1
48	F210808	Nut 1/2 unc Gr.8	1
49	KS60001	Bump Stop - Shoe Arm	1
50	F040606	Bolt 3/8 unc x 3/4 Gr. 8	2

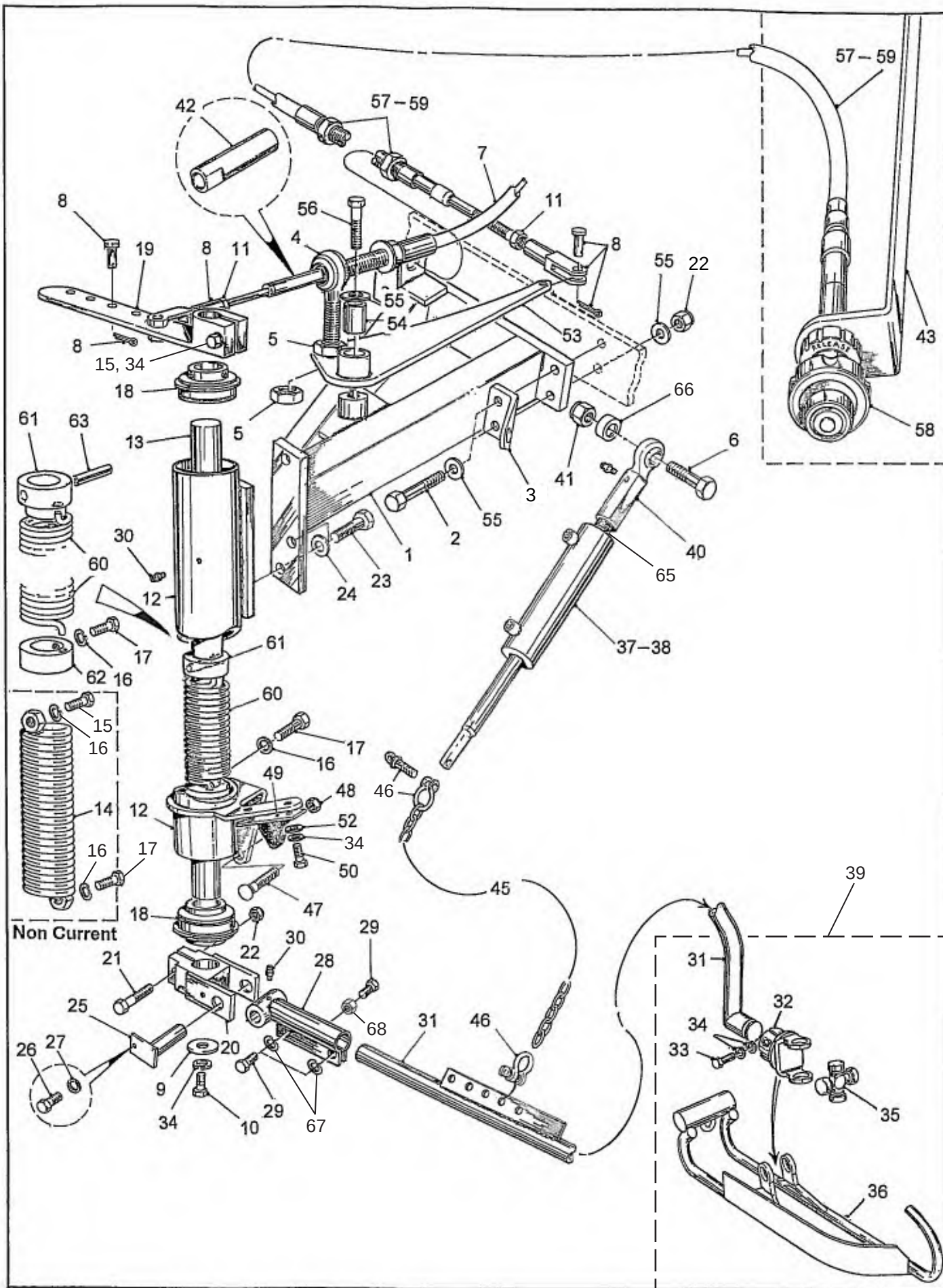
Items 13 to 18.
It is recommended that these items are ordered as Service Assembly - Part No. H510120.

NOTE 1

Item 14 is Non Current and has been replaced by items 60, 61, 62 & 63 - Torsion Spring Kit. H510199.

NOTE

Items 32, 33, 34, 35 & 36 are available as Ski Assembly - H510012 Item 39.

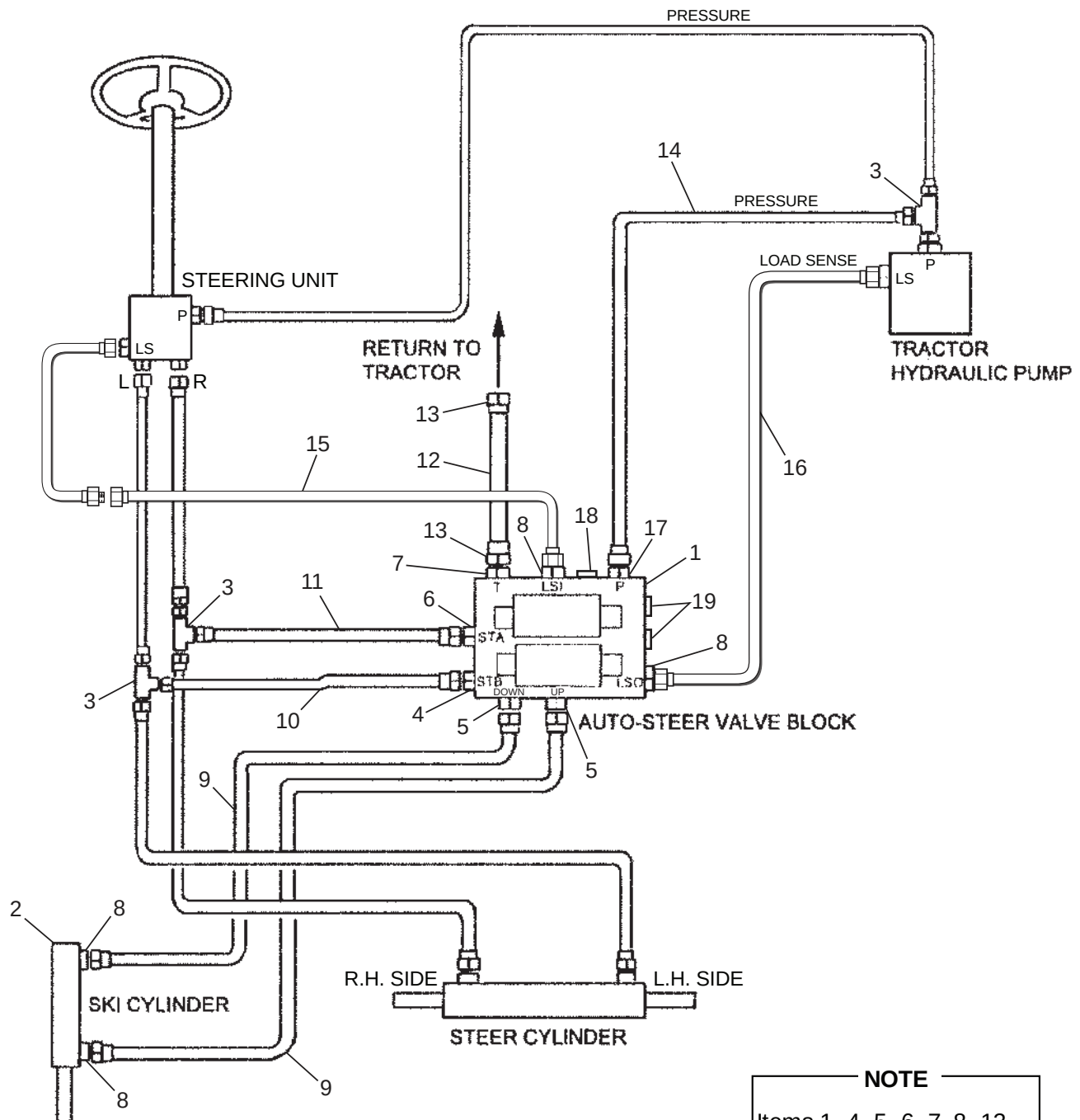


ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD SPRING COLUMN / RESET CYLINDER / SHOE ARM			
52	F320608	Washer 3/8 Gr.8 uss Flat	2
53	A300257	Lever Arm - Fine Adjust	1
54	H110399	Bushing	1
55	F320808	Washer 1/2 Gr.8 uss Flat	4
56	F040820	Bolt 1/2 unc x 2 Gr. 8	1
57	KD10041	Cable Assy. - Fine Adjust	1
58	KD10029	Control Head - Fine Adjust Cable	1
59	KD10031	Control Cable Only - Fine Adjust Cable	1
60	H111207	Spring - See Note	1
61	H111208	Upper Spring Socket	1
62	H111209	Lower Spring Socket	1
63	F940616	Spring Pin 3/8 Dia. X 1 3/4 Lg.	1
65	F221250	Jam Nut 3/4 unf	1
66	4130903	Spacer	1
67	F310508	Lockwasher 5/16 unc Gr.8	2
68	F230508	Nut 5/16 unc Gr.8	1

NOTE

Items 60, 61, 62 & 63 are
available as Torsion Spring
Service Kit - H510199.

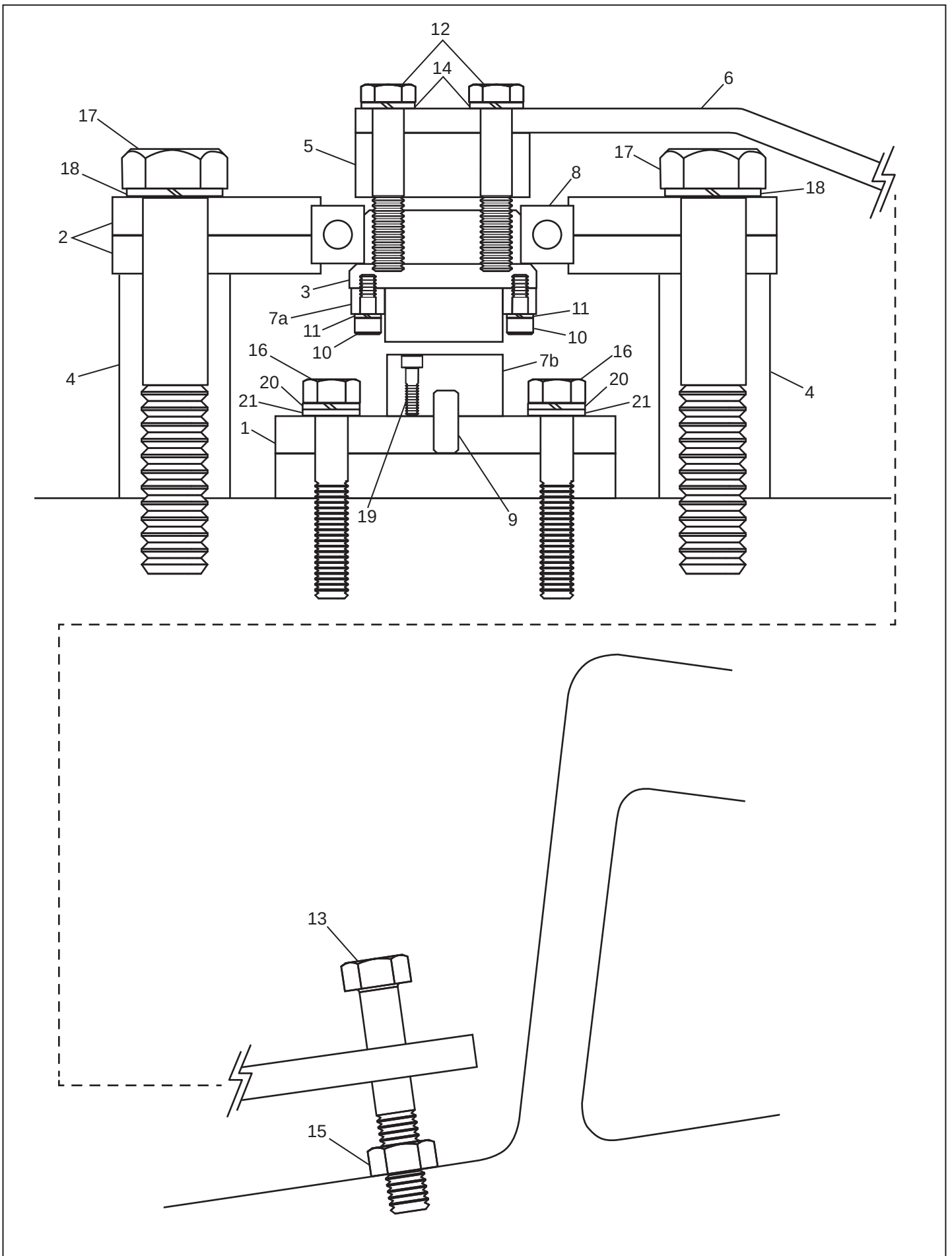
Brouwer RoboMax John Deere 6105, 6110 & 6115 - Auto-Steer Hydraulics



NOTE

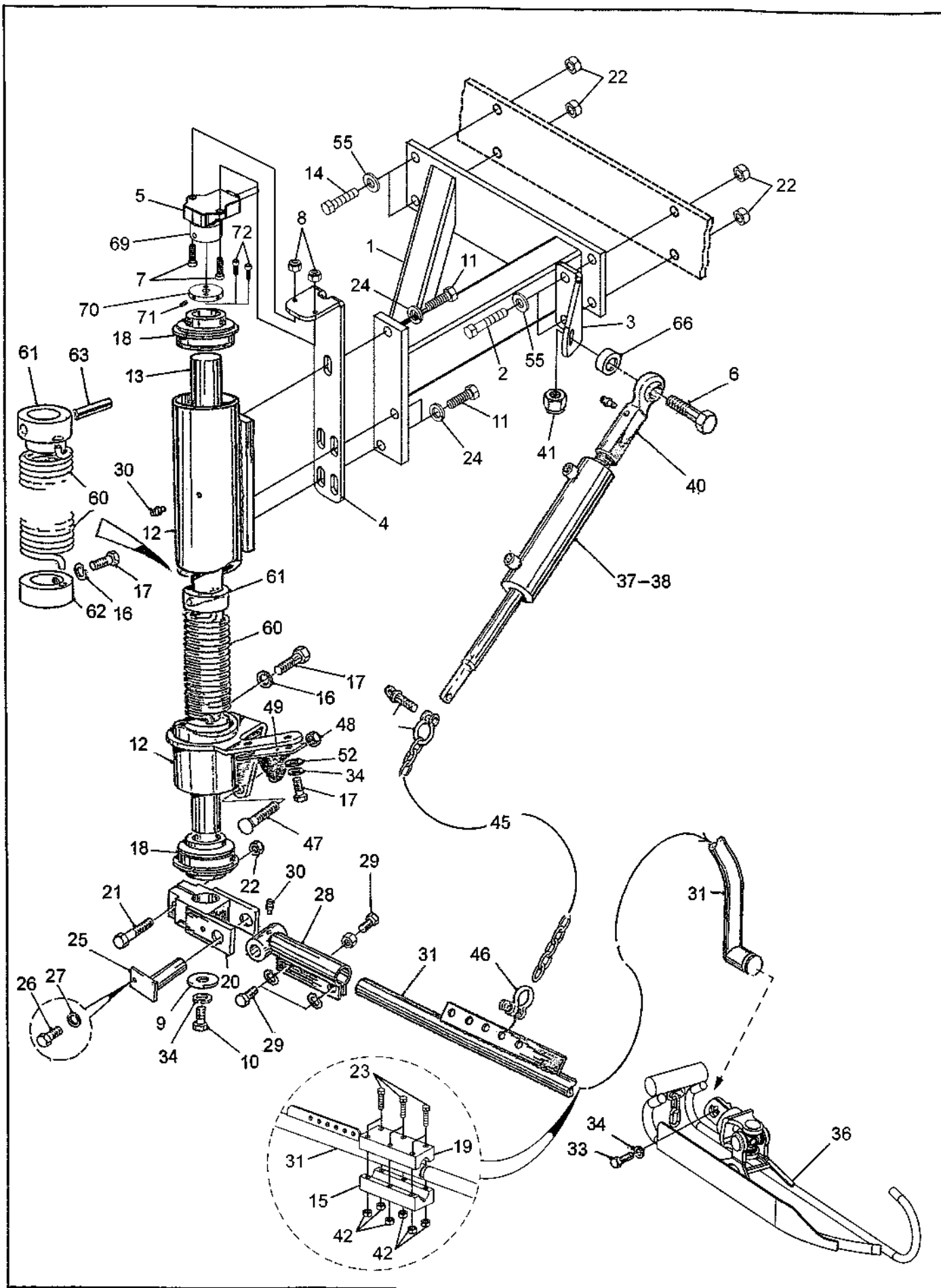
Items 1, 4, 5, 6, 7, 8, 13, 17, 18 & 19 are available as - Auto-Steer Manifold Assembly: R500412

ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD 6105, 6110 & 6115 AUTO-STEER HYDRAULIC Connections			
1	KH20232	Auto-Steer Valve Block	1
2	4160414	Ski Cylinder	1
3	8-8-8520432	Fitting. Tee	3
4	8-8-070120	Fitting. No. 8 JIC to No. 8 ORB Straight	1
5	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	2
6	8-8-070220	Fitting. No. 8 JIC to No. 8 ORB 90 deg. Elbow	1
7	8-12-070120	Fitting. No. 8 JIC to No. 12 ORB Straight	1
8	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight	4
9	R200256	Hose Assembly. Auto-Steer Valve - Up to Ski Cylinder	1
		Hose Assembly. Auto-Steer Valve - Down to Ski Cylinder	1
10	R200251	Hose Assembly. Tee to Auto-Steer Valve - STB	1
11	R200250	Hose Assembly. Tee to Auto-Steer Valve - STA	1
12	R200255	Hose Assembly. Tank to Auto-Steer Valve - T	1
13	KH01114	Fitting.	2
14	R200254	Hose Assembly. Auto-Steer Valve - P to Tee	1
15	R200252	Hose Assembly. Existing Load Sense Hose to Auto-Steer Valve - LSI	1
16	R200253	Hose Assembly. Hydraulic Pump to Auto-Steer Valve - LSO	1
17	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	1
18	4-090109B	Plug. No. 4 SAE Plug	1
19	8-090109B	Plug. No. 8 SAE Plug	2
NOTE Items 1, 4, 5, 6, 7, 8, 13, 17, 18 & 19 are available as - Auto-Steer Manifold Assembly: R500412			



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD 6105, 6110 & 6115 King Pin Sensor Mounting Assembly	
1	R100959	King Pin Mount	1
2	R100974	Clamp Plate	2
3	R100975	Spigot	1
4	R100976	Spacer Tube	4
5	R100977	Arm Spacer	1
6	R101150	Anti-Rotation Arm	1
7a	KE10254	Sensor	1
7b		Positioning Element	1
8	KB16208	Bearing 6008-2RS	1
9	F960405	Dowel Pin 1/4 x 5/8 in. Lg.	1
10	F180205	Socket Hd. Cap Sc. 10-24 x 1/2 in. Lg.	2
11	F310200	Lockwasher 3/16	2
12	F040514	Bolt 5/16 nc x 1 1/2 in. Hex Hd. Cap Sc.	2
13	F040522	Bolt 5/16 nc x 2 1/4 in. Hex Hd. Cap Sc.	1
14	F310508	Lockwasher 5/16	2
15	F230508	Jam Nut 5/16	2
16	G0112040	Bolt M12 x 1.75 x 40mm Gr.8 Hex Hd. Cap Sc.	4
17	G0146100	Bolt M16 x 2.0 x 100mm Gr.8 Hex Hd. Cap Sc.	4
18	G311600	Lockwasher M16	4
19	F180106	Bolt 8-32 x 3/4 Soc. Hd.	1
20	G311200	Lockwasher M12	4
21	G331208	Washer M12	4

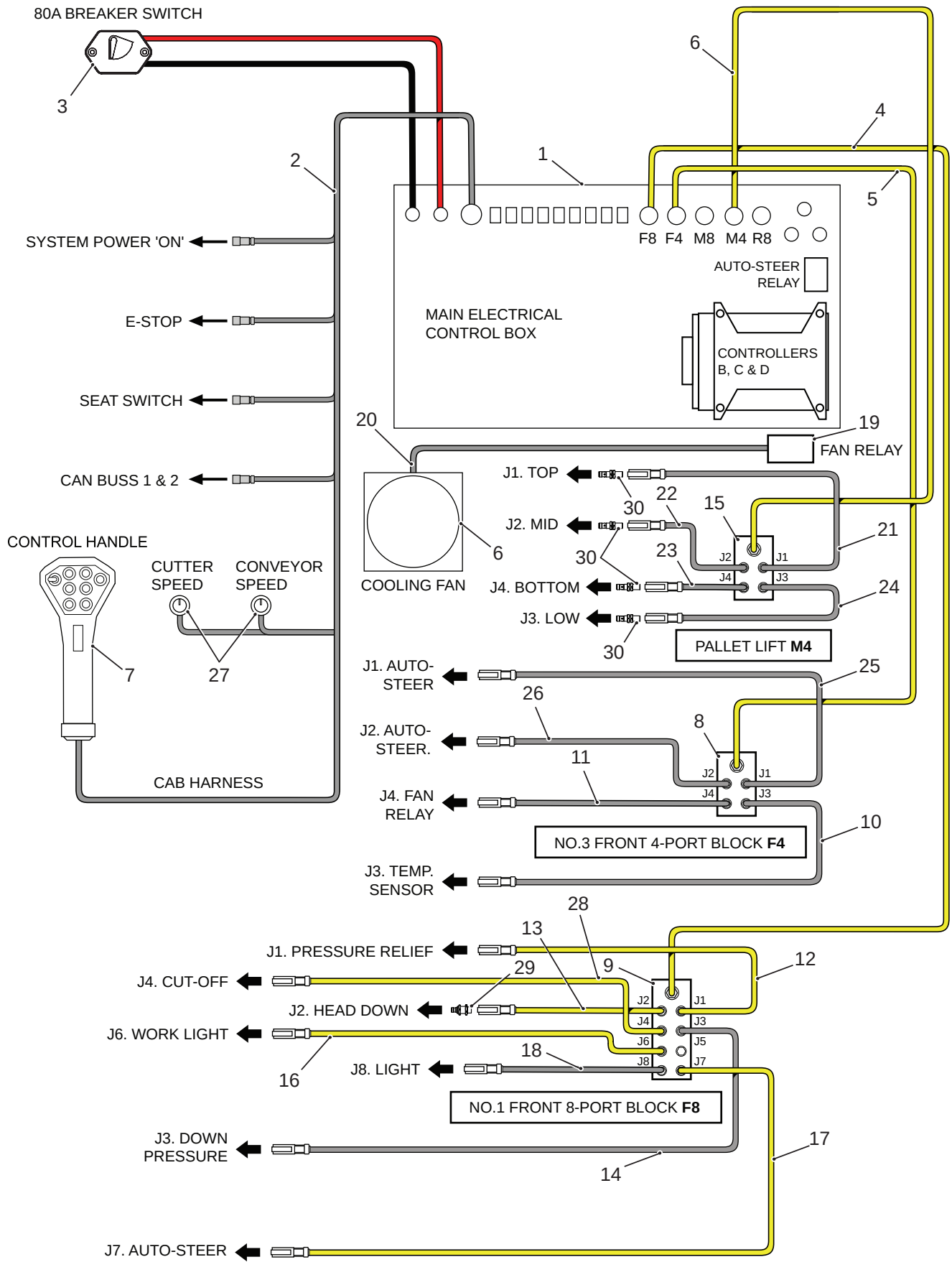
ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD 6105 & 6115 SPRING COLUMN / RESET CYLINDER / SHOE ARM	
1	R300209	Spring Column Mount	1
2	F040820	Bolt 1/2 unc x 2 Gr.8	2
3	A101135	Cylinder Mount	1
4	R100957	Spring Sensor Mounting Bracket	1
5	R101766	Sensor - Spring Column - Current from Serial No. 242	1
	KE10254	Sensor - Spring Column - Non Current	1
6	F041230	Bolt 3/4 unc x 3 Gr.8	1
7	F580206	Bolt-10 unc x 3/4 Pan Hd. Phil St. Stl.	2
8	F280200	Nyloc Nut-10 unc	2
9	H100045	Retainer Washer	1
10	F040606	Bolt 3/8 unc x 3/4 Gr.8	1
11	F040812	Bolt 1/2 unc x 1 1/4 Gr.8	3
12	H310051	Spring Column Weldment	1
13	R100956	Shaft-Spring Column	1
14	F040814	Bolt 1/2 unc x 1 1/2 Gr.8	2
15	M100158	Jackshaft Coupling Bottom	1
16	F310608	Lockwasher 3/8 Gr.8	1
17	F040606	Bolt 3/8 unc x 3/4 Gr.8	3
18	KB20510	Bearing c/w Snap Ring	2
19	M100157	Jackshaft Coupling Top	1
20	H310055	Support Pivot - Ski Arm	1
21	F040824	Bolt 1/2 unc x 2 1/2 Gr.8	1
22	F210808	Locknut 1/2 unc Gr.8	5
23	F040524	Bolt 5/16 unc x 2 1/2 Gr.8	6
24	F310808	Lockwasher 1/2 Gr.8	3
25	H310056	Pivot Pin	1
26	F040404	Bolt 1/4 unc x 1/2 Gr.8	1
27	F310408	Lockwasher 1/4 unc Gr8	1
28	H310052	Mounting Pivot - Shoe Arm	1
29	F040510	Bolt 5/16 unc x 1 Gr.8	3
30	KM11400	Grease Fitting	2
31	H310064	Ski Arm Weldment	1
33	F040612	Bolt 3/8 unc x 1 1/4 Gr.8	1
34	F310608	Lockwasher 3/8 Gr.8	4
36	H310061	Auto-Steer Ski Weldment	1
	H310345	Auto-Steer Sand Shoe Weldment (Optional)	1
37	4160414	Reset Cylinder (See Auto-Steer Hydraulic System for Fittings)	1
38	KH70108	Seal Kit - Reset Cylinder	1
40	KB16011	Rod End (MW12)	1
41	F211208	Nyloc Nut 3/4 unc Gr.8	1
42	F210508	Locknut 5/16-18 Gr.8	6
45	H110693	Chain - Shoe Arm Lift	1
46	KC01002	Shackle	2
47	F020820	Carriage Bolt 1/2 unc x 2	1
48	F210808	Nut 1/2 unc Gr.8	1
49	KS60001	Bump Stop - Shoe Arm	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD 6105 & 6115 SPRING COLUMN / RESET CYLINDER / SHOE ARM	
52	F320608	Washer 3/8 Gr.8 uss Flat	2
55	F330808	Washer 1/2 Gr.8 sae Flat	2
60	H111207	Spring - See Note	1
61	H111208	Upper Spring Socket	1
62	H111209	Lower Spring Socket	1
63	F940616	Spring Pin 3/8 Dia. X 1 3/4 Lg.	1
65	F221258	Jam Nut 3/4-16	1
66	4130903	Spacer	1
67	F310508	Lockwasher 5/16 unc Gr.8	2
68	F230508	Nut 5/16 unc Gr.8	1
69	KE10306	Sensing Element	1
70	R101406	Auto Steer Sensor Adjuster Disk	1
71	F740204	Set Screw #10-32 x 0.50 Lg	2
72	F180106	Sockethead Cap Screw 8-32 x 3/4 in.	2

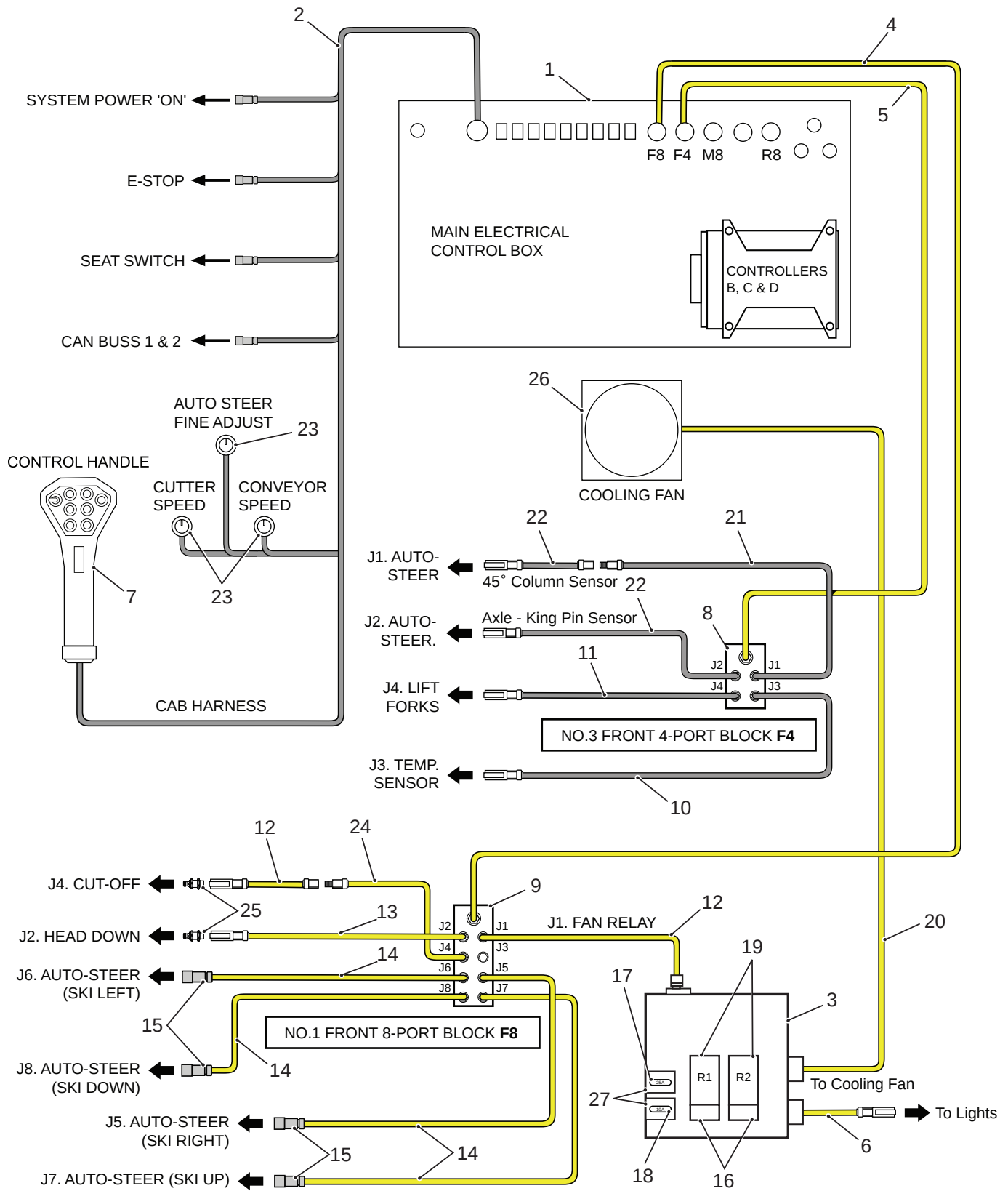
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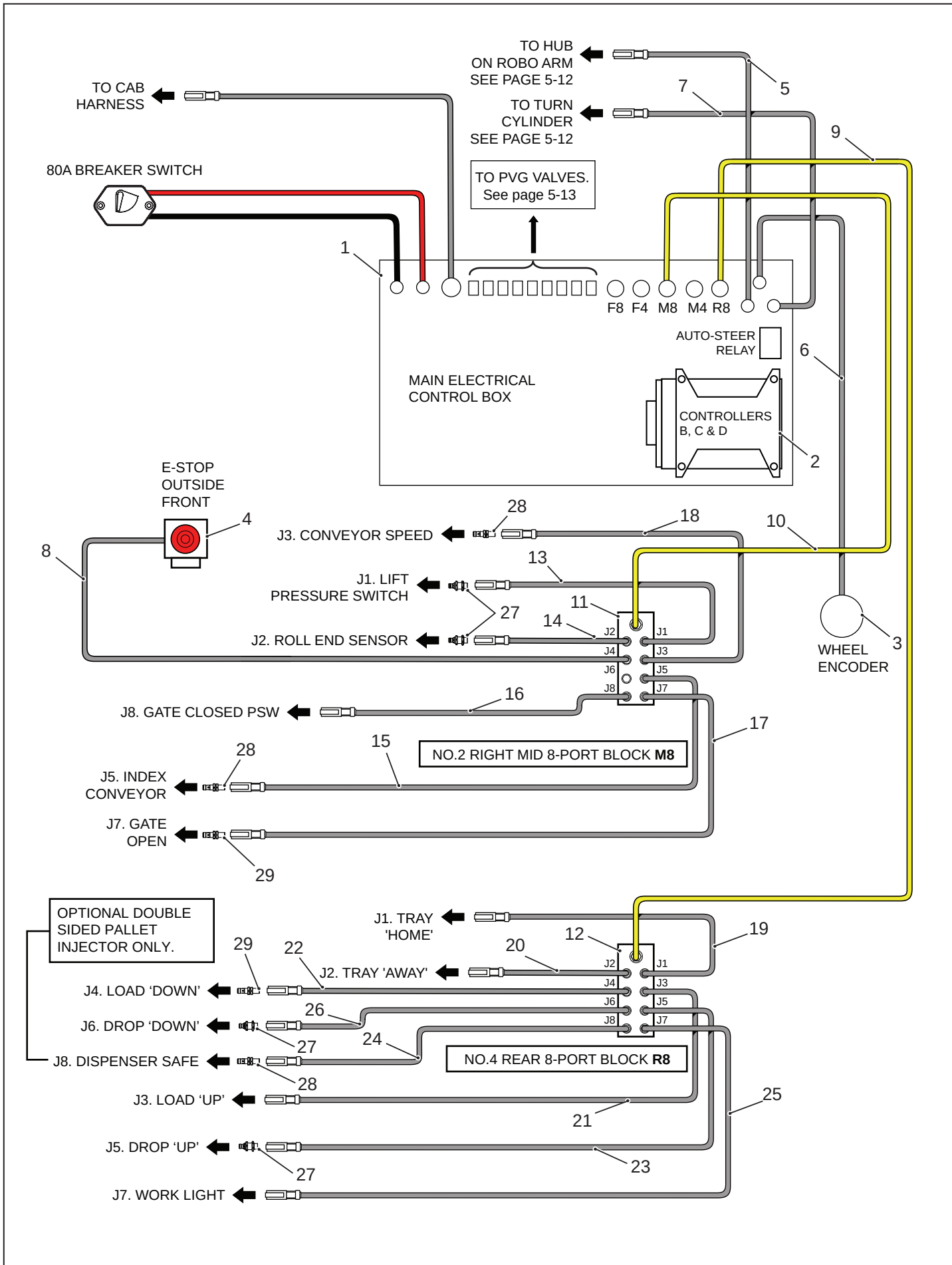


ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD ELECTRICAL SYSTEM. Cab Harness, MPF4. & MPF8.	
1	R500021	Electrical Control Box - Full Assembly	1
2	R500043	Cab Harness	1
3	KE80031	80A Breaker Switch	1
4	KE60139	Cable. Electrical Control Box to Connector Block (MPF8)	1
5	KE60113	Cable. Electrical Control Box to Connector Block (MPF4)	1
6	KE60147	Cable. Electrical Control Box to Connector Block (MPM4)	1
7	R500054	Control Handle	1
8	KE60162	Connector Block - Front Four Port Block (MPF4)	1
9	KE60115	Connector Block - Front Eight Port Block (MPF8)	1
10	R500117	Cable. Connector Block J3. (MPF4) to Temp Sensor	1
11	KE60125	Cable. Connector Block J4. (MPF4) to Fan Relay	1
12	KE60122	Cable. Connector Block J1. (MPF8) to Pressure Relief	1
13	KE60124	Cable. Connector Block J2. (MPF8) to 'Head Down'	1
14	KE60160	Cable. Connector Block J3. (MPF8) to 'Down Pressure'	1
15	KE60116	Connector Block - Middle Four Port Block (MPM4)	1
16	R500069	Cable. Connector Block J6. (MPF8) to Work Light	1
17	KE60107	Cable. Connector Block J7. (MPF8) to Auto-Steer	1
18	R500069	Cable. Connector Block J8. (MPF8) to Work Light	1
19	KE60142	Fan Relay	1
20	R500071	Cable. Cooling Fan to Fan Relay	1
21	KE60142	Cable. Connector Block J1. (MPM4) to 'Top' Pallet Lift Sensor	1
22	KE60142	Cable. Connector Block J2. (MPM4) to 'Mid' Pallet Lift Sensor	1
23	KE60142	Cable. Connector Block J4. (MPM4) to 'Bottom' Pallet Lift Sensor	1
24	KE60142	Cable. Connector Block J3. (MPM4) to 'Low' Pallet Lift Sensor	1
25	KE60121	Cable. Connector Block J1. (MPF4) to Auto-Steer	1
26	KE60107	Cable. Connector Block J2. (MPF4) to Auto-Steer	1
27	R500059	Control Knobs - Conveyor & Cutter Speed Assembly	1
28	KE60149	Cable. Connector Block J4. (MPF8) to Cut-Off	1
29	A500229	15mm Sensing Range Proximity Sensor	1
30	4132981	4mm Sensing Range Proximity Sensor	4

Brouwer RoboMax John Deere 6105, 6110 & 6115 - Electrical Diagram

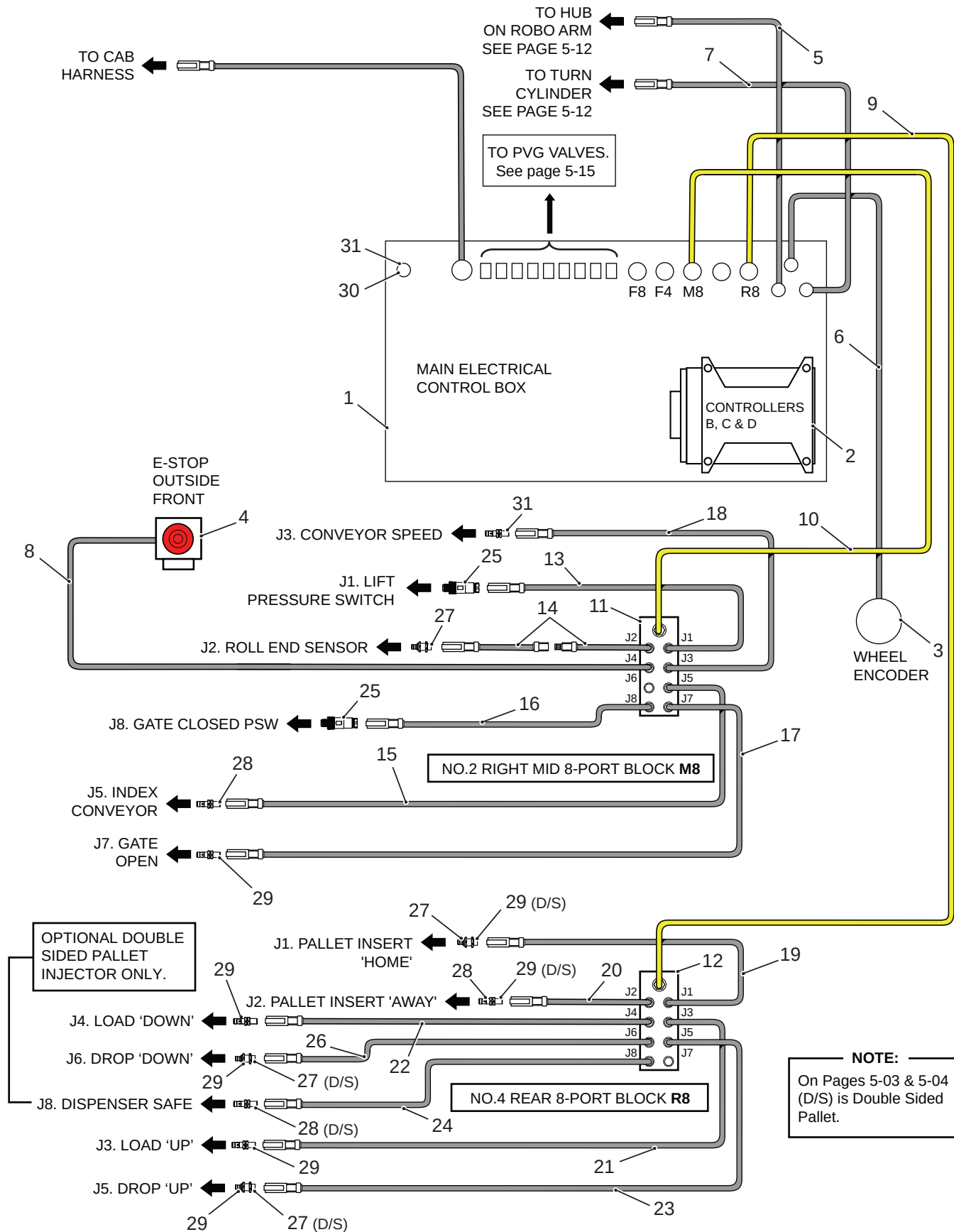


ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD 6105, 6110 & 6115 ELECTRICAL SYSTEM. Cab Harness, MPF4. & MPF8.	
1	R500164	Electrical Control Box - Full Assembly	1
2	R500165	Cab Harness	1
3	R500179	Fan/Light Relay Control Box	1
4	KE60139	Cable. Electrical Control Box to Connector Block (MPF8)	1
5	KE60113	Cable. Electrical Control Box to Connector Block (MPF4)	1
6	R500188	Light Harness	1
7	R500054	Control Handle	1
8	KE60162	Connector Block - Front Four Port Block (MPF4) (NO LED)	1
9	KE60115	Connector Block - Front Eight Port Block (MPF8)	1
10	R500117	Cable. Connector Block J3. (MPF4) to Temp Sensor	1
11	KE60131	Cable. Connector Block J4. (MPF4) to Lift Forks	1
12	KE60142	Cable. Connector Block J1. (MPF8) to Fan Relay	1
		Cable. J4. (MPF8) to 'Cut-Off Sensor'	1
13	KE60124	Cable. Connector Block J2. (MPF8) to 'Head Down'	1
14	KE60160	Cable. Connector Block J5. (MPF8) to 'Auto-Steer Right'	1
		Cable. Connector Block J6. (MPF8) to 'Auto-Steer Left'	1
		Cable. Connector Block J7. (MPF8) to Auto-Steer Ski Up	1
		Cable. Connector Block J8. (MPF8) to Auto-Steer Ski Down	1
15	KE30040	Deutsch DT Plug - 2 Contact	4
16	KE10094	Relay	2
17	KE10088	30 Amp ATO Fuse	1
18	KE10062	10 Amp Fuse	1
19	KE10095	Light Relay (R1), Fan Relay (R2) (Relay Harness)	2
20	R500189	Cooling Fan Harness	1
21	KE60141	Cable. Connector Block J1. (MPF4) to Column Sensor Cable (45 deg. Rotary Sensor)	1
22	KE10254	Cable. Connector Block J2. (MPF4) to Auto-Steer (Rotary Sensor)	1
		Cable. J1. (MPF4) to Auto-Steer	1
23	R500059	Control Knobs - Conveyor & Cutter Speed Assembly	3
24	KE60149	Cable. Connector Block J4. (MPF8) to 'Cut-Off Sensor Cable'	1
25	A500229	15mm Sensing Range Proximity Sensor	2
26	KH40050	Cooler	1
27	KH10170	Fuse Holder	2



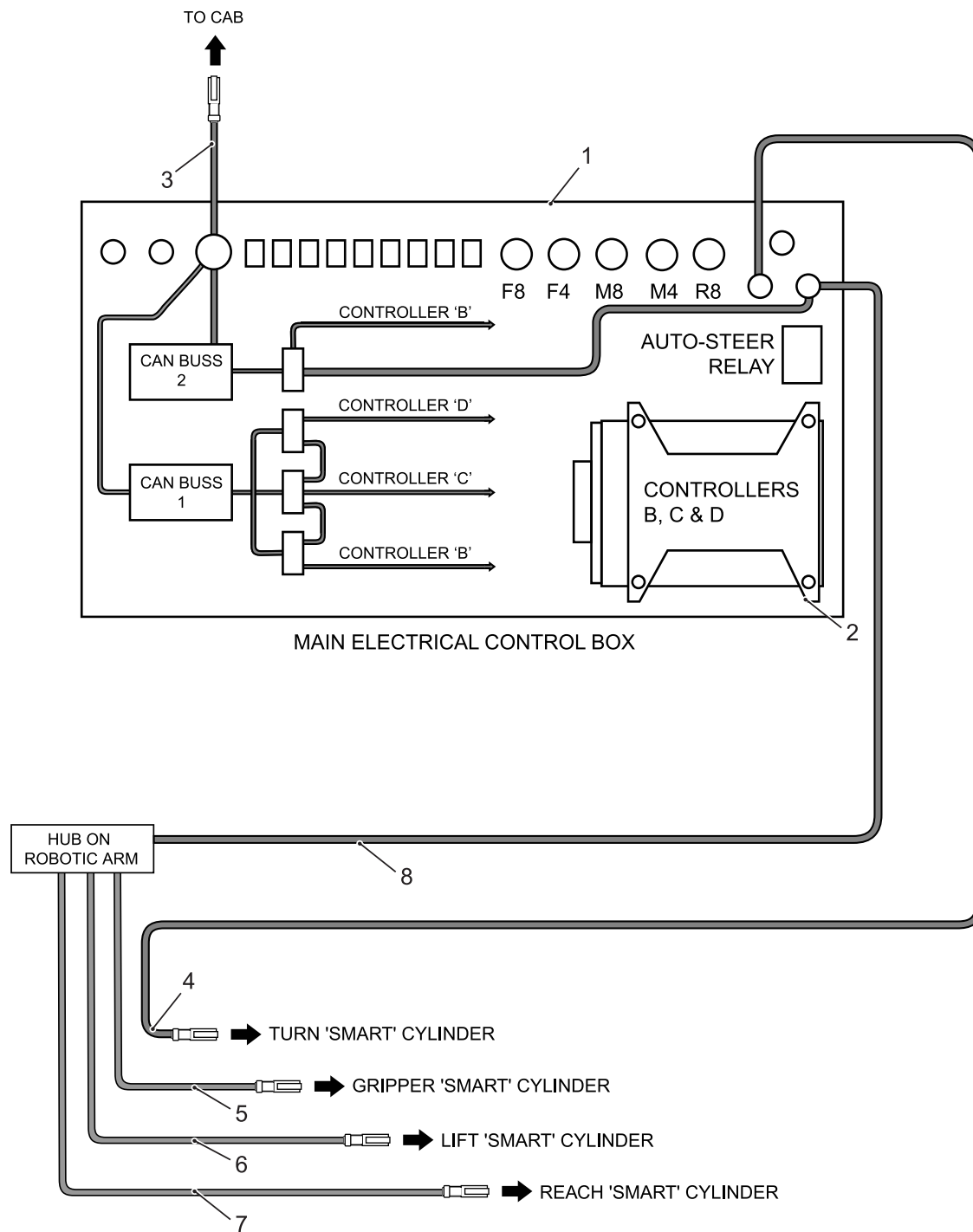
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD ELECTRICAL SYSTEM. 8 Port Block MPR. & MPM.			
1	R500021	Electrical Control Box - Full Assembly	1
2	KE70014	Controller C2	1
3	KE10228	Wheel Encoder	1
4	R500070	Emergency Stop Button Assembly	1
5	4160172	Cable. Electrical Control Box to Hub	1
6	KE60164	Cable. Electrical Control Box to Wheel Encoder	1
7	4160173	Cable. Electrical Control Box to Turn Cylinder	1
8	KE60126	Cable. Connector Block J4. (MPM) to Arm Emergency Stop Button	1
9	KE60163	Cable. Electrical Control Box to Connector Block (MPR)	1
10	KE60110	Cable. Electrical Control Box to Connector Block (MPM)	1
11	KE60115	Connector Block - Middle Eight Port Block (MPM)	1
12	KE60115	Connector Block - Rear Eight Port Block (MPR)	1
13	KE60126	Cable. Connector Block J1. (MPM8) to Lift Pressure Switch	1
14	KE60126	Cable. Connector Block J2. (MPM8) to Roll End Sensor	1
15	KE60126	Cable. Connector Block J5. (MPM8) to Index Conveyor	1
16	KE60129	Cable. Connector Block J8. (MPM8) to Gate 'Closed' PSW	1
17	KE60129	Cable. Connector Block J7. (MPM8) to Gate 'Open'	1
18	KE60126	Cable. Connector Block J3. (MPM8) to Conveyor Speed	1
19	KE60127	Cable. Connector Block J1. (MPR8) to Tray 'Home'	1
20	KE60125	Cable. Connector Block J2. (MPR8) to Tray 'Away'	1
21	KE60127	Cable. Connector Block J3. (MPR8) to Load 'Up'	1
	KE60142	Cable. Connector Block J3. (MPR8) to Load 'Up'	1
22	KE60127	Cable. Connector Block J4. (MPR8) to Load 'Down'	1
23	KE60127	Cable. Connector Block J5. (MPR8) to Drop 'Up'	1
24	KE60117	Cable. Connector Block J8. (MPR8) to Dispenser Safe	1
25	R500069	Cable. Connector Block J7. (MPR8) to Work Light	1
26	KE60127	Cable. Connector Block J6. (MPR8) to Drop 'Down'	1
27	A500229	15mm Sensing Range Proximity Sensor	4
28	A500228	8mm Sensing Range Proximity Sensor	2
29	4132981	4mm Sensing Range Proximity Sensor	3

Brouwer RoboMax John Deere 6105 and up - Electrical Diagram



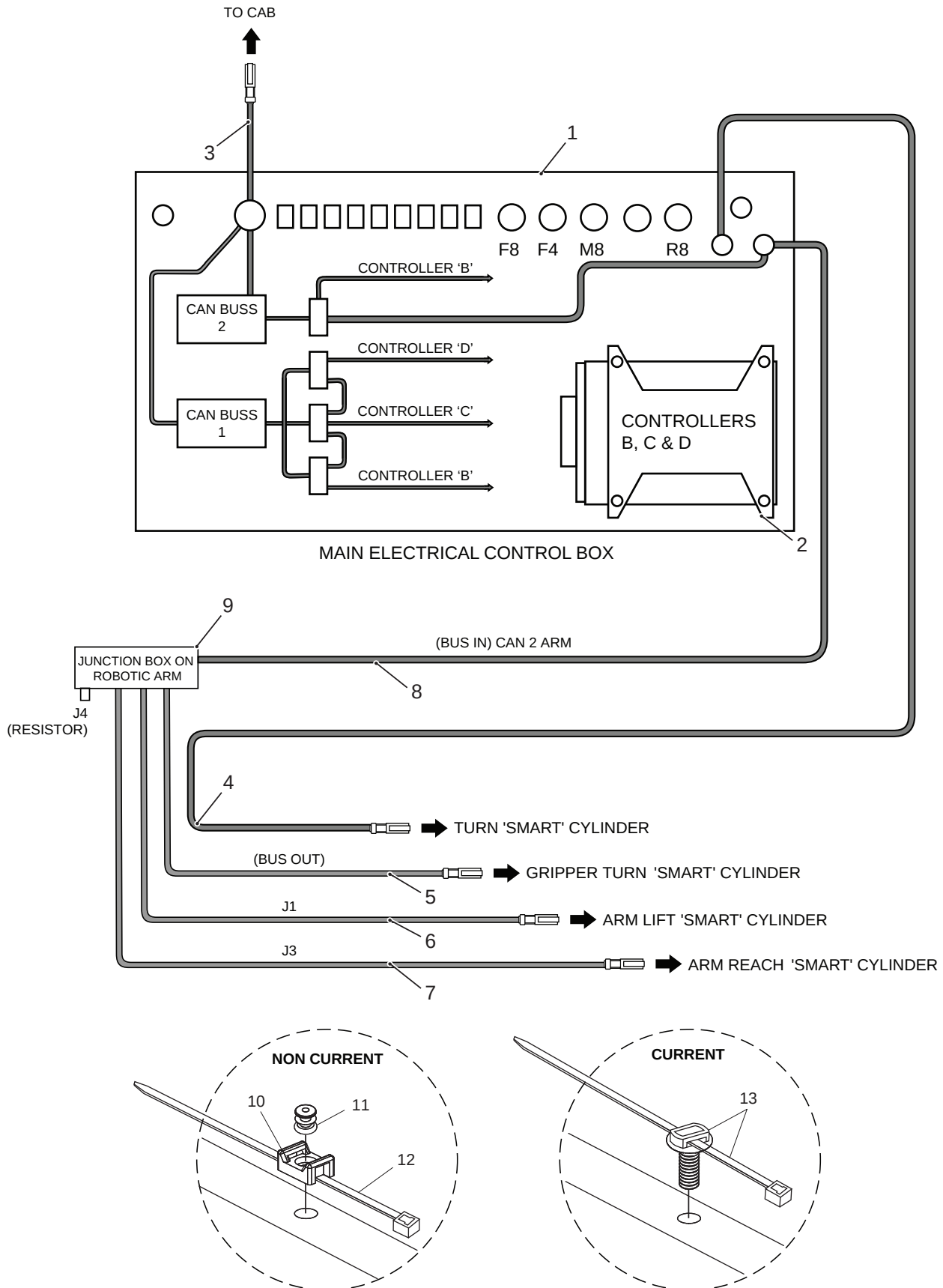
NOTE:
On Pages 5-03 & 5-04 (D/S) is Double Sided Pallet.

ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD 6105, 6110 & 6115 ELECTRICAL SYSTEM. 8 Port Block MPR. & MPM.	
1	R500164	Electrical Control Box - Full Assembly	1
2	KE70014	Controller C2	1
3	KE10294	Wheel Encoder	1
4	KE10309	Emergency Stop Button Assembly	1
5	4160172	Cable. Electrical Control Box to Hub	1
6	KE60164	Cable. Electrical Control Box to Wheel Encoder	1
7	4160173	Cable. Electrical Control Box to Turn Cylinder	1
8	KE60126	Cable. Connector Block J4. (MPM) to Arm Emergency Stop Button	1
9	KE60163	Cable. Electrical Control Box to Connector Block (MPR)	1
10	KE60110	Cable. Electrical Control Box to Connector Block (MPM)	1
11	KE60115	Connector Block - Middle Eight Port Block (MPM)	1
12	KE60115	Connector Block - Rear Eight Port Block (MPR)	1
13	KE60149	Cable. Connector Block J1. (MPM8) to Lift Pressure Switch	1
14	KE60137	Cable. Connector Block J2. (MPM8) to Roll End Sensor	2
15	KE60126	Cable. Connector Block J5. (MPM8) to Index Conveyor	1
16	KE60137	Cable. Connector Block J8. (MPM8) to Gate 'Closed' PSW	1
17	KE60137	Cable. Connector Block J7. (MPM8) to Gate 'Open'	1
18	KE60125	Cable. Connector Block J3. (MPM8) to Conveyor Speed - Current from Serial # 424	1
	KE60127	Cable. Connector Block J3. (MPM8) to Conveyor Speed - Non Current up to Serial # 423	1
19	KE60127	Cable. Connector Block J1. (MPR8) to Tray 'Home' (Single Sided Pallet)	1
	KE60128	Cable. Connector Block J1. (MPR8) to Tray 'Home' (D/S Pallet)	1
20	KE60125	Cable. Connector Block J2. (MPR8) to Tray 'Away' (Single Sided Pallet)	1
	KE60128	Cable. Connector Block J2. (MPR8) to Tray 'Away' (Double Sided Pallet)	1
21	KE60149	Cable. Connector Block J3. (MPR8) to Load 'Up' (Single Sided Pallet)	1
	KE60128	Cable. Connector Block J3. (MPR8) to Cable. KE60142 (D/S Pallet)	1
	KE60142	Cable. KE60128 J3. (MPR8) to Load 'Up' (Double Sided Pallet)	1
22	KE60126	Cable. Connector Block J4. (MPR8) to Load 'Down' (Single Sided Pallet)	1
	KE60128	Cable. Connector Block J4. (MPR8) to Load 'Down' (D/S Pallet)	1
23	KE60127	Cable. Connector Block J5. (MPR8) to Load 'Up' (Single Sided Pallet)	1
	KE60119	Cable. Connector Block J5. (MPR8) to Push Bar Home (D/S Pallet)	1
24	KE60117	Cable. Connector Block J8. (MPR8) to Dispenser Safe (D/S Pallet)	1
25	KE60136	Pressure Switch (On Arm) J1.(MPM8) Pressure Switch (Gate Close) J8.(MPM8)	1
26	KE60149	Cable. Connector Block J6. (MPR8) to Drop 'Down' (Single Sided Pallet)	1
	KE60119	Cable. Connector Block J6. (MPR8) to Push Bar Away (D/S Pallet)	1
27	A500229	15mm Sensing Range Proximity Sensor (Single Sided Pallet)	4
		15mm Sensing Range Proximity Sensor (Double Sided Pallet)	5
28	A500228	8mm Sensing Range Proximity Sensor (Single Sided Pallet)	2
		8mm Sensing Range Proximity Sensor (Double Sided Pallet)	2
29	4132981	4mm Sensing Range Proximity Sensor (Single Sided Pallet)	5
		4mm Sensing Range Proximity Sensor (Double Sided Pallet)	5
30	KE30089	Com Connector	1
31	KE30049	Terminating Resistor	1
32	KH30089	Conveyor Speed Sensor - Current from Serial # 424	1

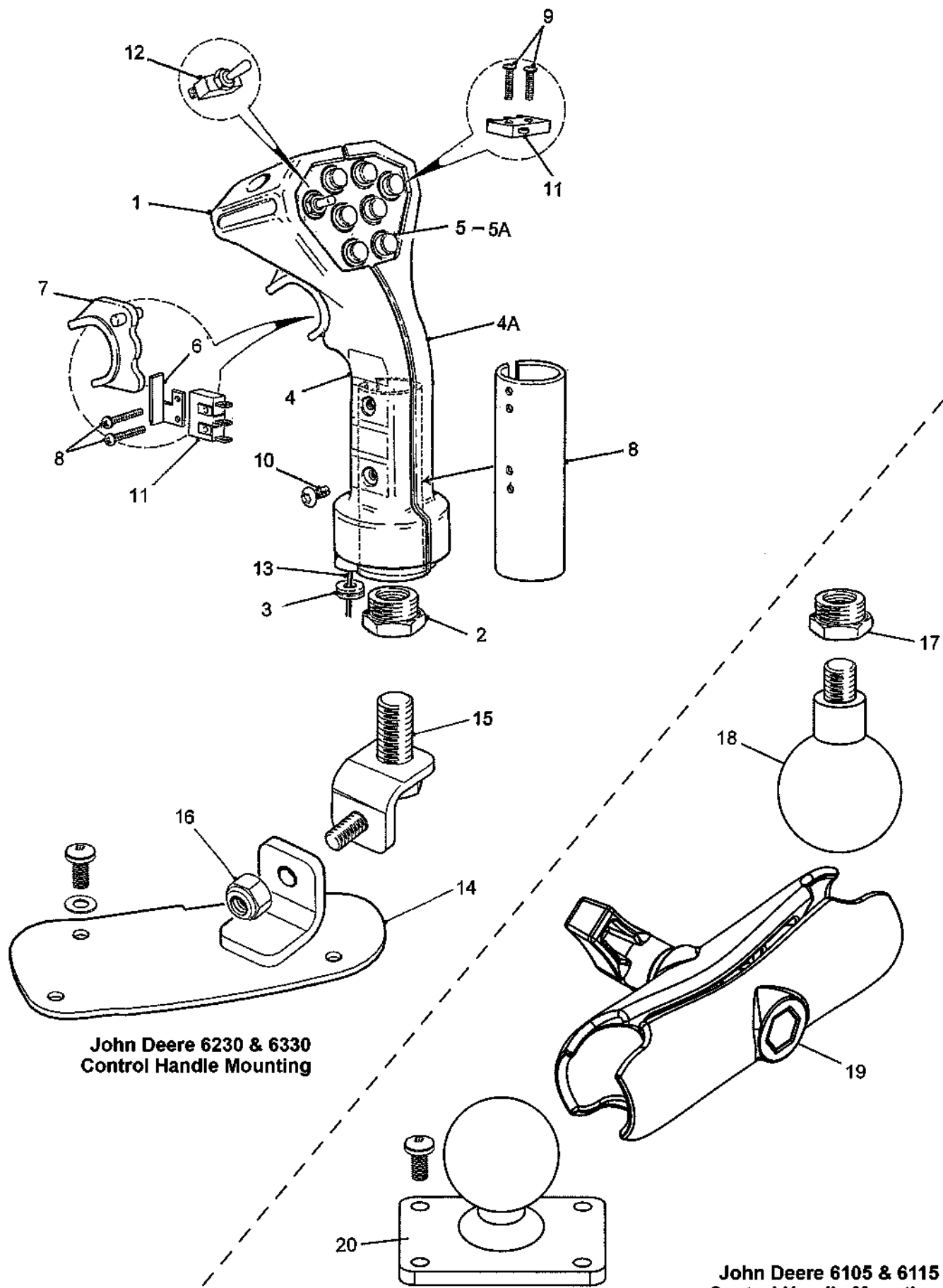


ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD ELECTRICAL SYSTEM. Controller C2 to Hub & Smart Cylinders	
1	R500021	Electrical Control Box - Full Assembly	1
2	KE70014	Controller B2	1
	KE70014	Controller C2	1
	KE70021	Controller D2	1
3	R500043	Cab Harness	1
4	KE60156	Cable. Electrical Control Box to Turn 'Smart' Cylinder	1
5	KE60156	Cable. Hub on Robotic Arm to Reach 'Smart' Cylinder	1
6	KE60158	Cable. Hub on Robotic Arm to Lift 'Smart' Cylinder	1
7	KE60157	Cable. Hub on Robotic Arm to Gripper 'Smart' Cylinder	1
8	4160172	Cable. Electrical Control Box to Hub on Robotic Arm	1

Brouwer RoboMax John Deere 6105 & up - Electrical Diagram



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD 6105 & up ELECTRICAL SYSTEM. Controller C2 to Hub & Smart Cylinders			
1	R500164	Electrical Control Box - Full Assembly	1
2	KE70014	Controller B	1
	KE70014	Controller C	1
	KE70027	Controller D	1
3	R500165	Cab Harness	1
4	KE60173	Cable. Electrical Control Box to Turn 'Smart' Cylinder	1
5	KE60156	Cable. Hub on Robotic Arm to Gripper Turn 'Smart' Cylinder	1
6	4160173	Cable. Hub on Robotic Arm to Arm Lift 'Smart' Cylinder	1
7	KE60158	Cable. Hub on Robotic Arm to Arm Reach 'Smart' Cylinder	1
8	4160172	Cable. Electrical Control Box to Hub on Robotic Arm (Can 2)	1
9	4160177	Junction Box - Current	1
	4160737	Junction Box Bracket - Current	1
	4160176	Hub on Robotic Arm - Non Current	1
	R101964	Bracket - Non Current	1
10	KE10185	Cable Tie Mount (Various Locations) - Non Current	N/A
11	F930208	Rivet - 3/16 Aluminum 1/8-1/4 Grip (Various Locations) - Non Current	N/A
12	KX99111	Cable Tie (Various Locations) - Non Current	N/A
13	KX99150	Fir Tree Cable Clip & Cable Tie (Various Locations) - Current	N/A
NOTE Current Item 13 replaces Non Current Items 10, 11 & 12			

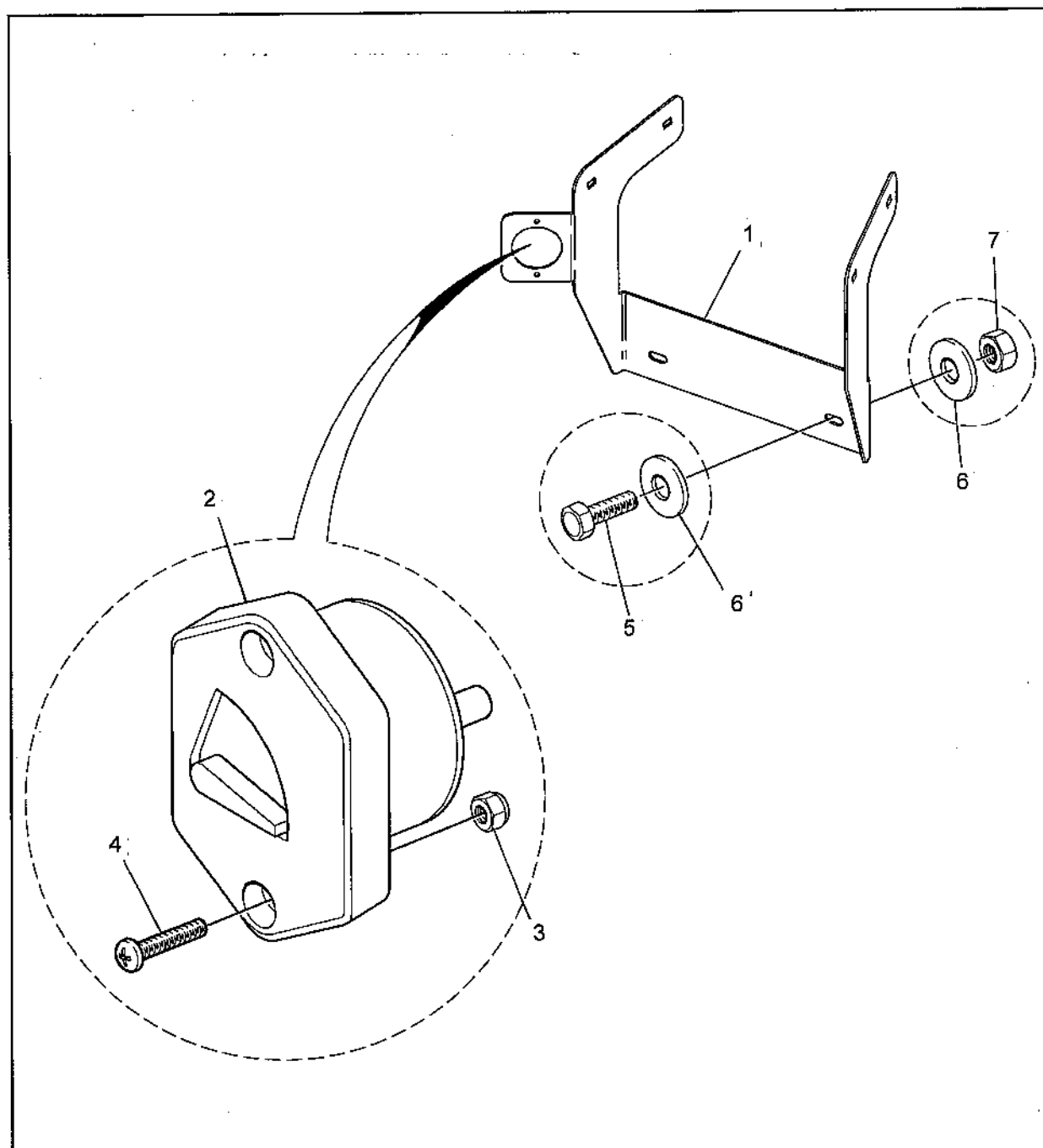


**John Deere 6230 & 6330
Control Handle Mounting**

**John Deere 6105 & 6115
Control Handle Mounting**

ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD JOYSTICK CONTROL HANDLE			
1	R500054	Joystick Control Handle Ass'y	1
2	KE00002	Bushing - Control Handle	1
3	KE00003	Grommet	1
4	KE00004	Handle Case - L.H.	1
4A	KE00005	Handle Case - R.H.	1
5	KE00019	Overlay - 8 Button	1
5A	KE00015	Face Plate	1
6	KE00007	Leaf Spring	1
7	KE00020	Trigger	1
8	KE00009	Pin - Mounting	1
9	KE00010	Screw - Switch Mounting	10
10	KE00011	Screw - Handle Mounting	3
11	KE00012	Switch - Momentary	4
12	KE00013	Toggle Switch	1
13	KE00014	Wiring Harness	1
14	A300280	Control Handle Mounting Plate	1
15	A300281	Control Handle Swivel Mount	1
16	F210600	Locknut 3/8 unc	1
17	KM75007	Bushing - Control Handle	1
18	KM75006	3/8 Male Stud with Ball	1
19	KM75002	Double Socket Arm	1
20	KM75004	2 x 2 1/4 in. Base with Ball	1
NOTE Joystick mounting Items 17, 18, 19 & 20 replace Items 2, 14, 15 & 16 on the John Deere 6105 & 6115 Tractors.			

ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD CIRCUIT BREAKER MOUNTING	
1	R100486	Mounting Bracket	1
2	KE80031	Circuit Breaker - 80A	1
3	F210200	Locknut 10-24 unc	2
4	F540210	Bolt Pan Hd. 10-24 x 1 Lg.	2
5		Bolt	2
6		Washer	2
7		Locknut	2



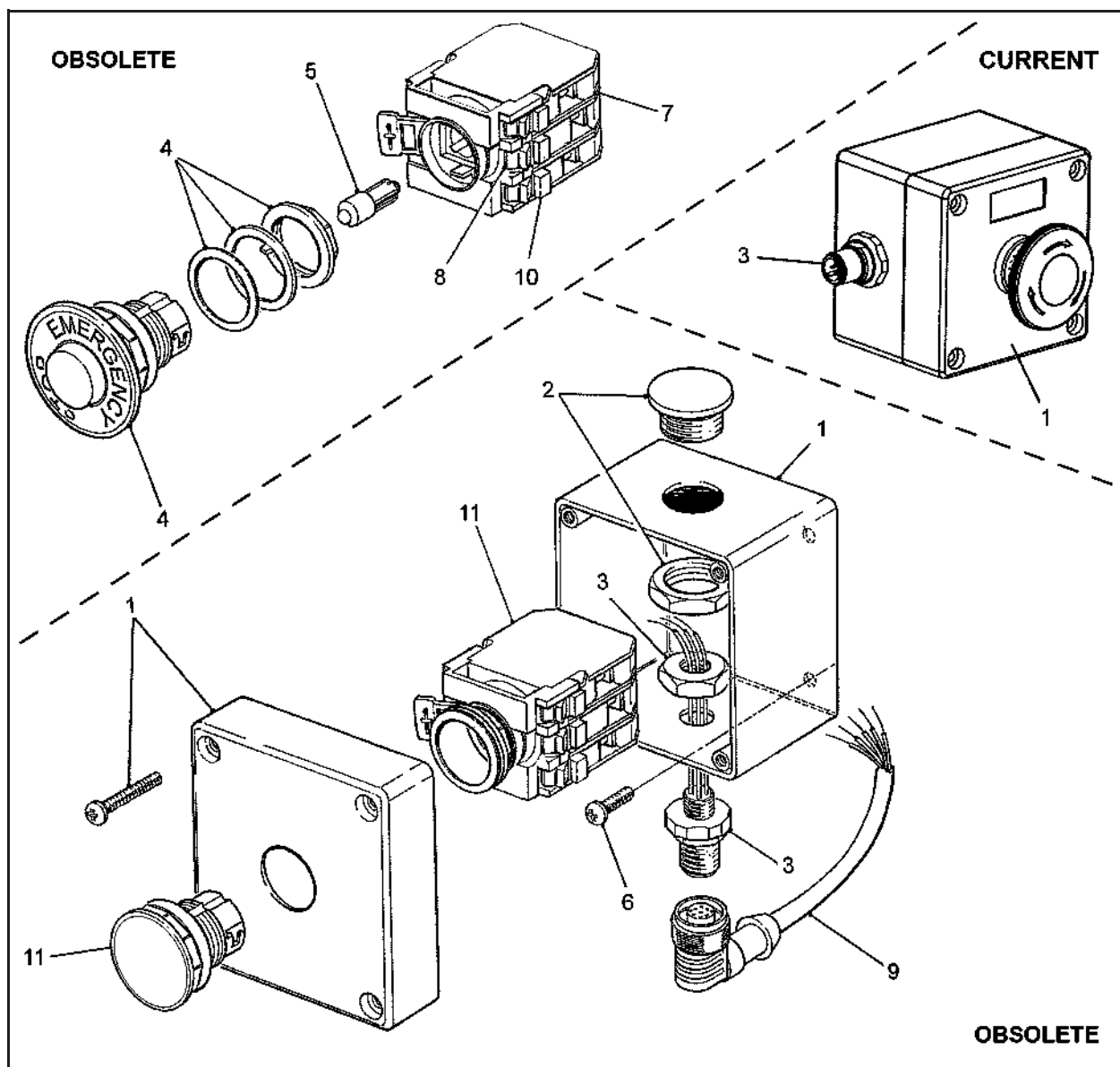
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD E-STOP & ENCLOSURE ASSEMBLY			
1	KE10309	E-Stop Box and Push Button - Current from Serial No. 234	1
	A101021	Enclosure. Modified - Obsolete	1
2	KM30015	Plug	1
3	KE60103	Enclosure Connection	1
4	KE80033	Push Button - Obsolete	1
5	KE80035	Light Bulb - Obsolete	1
6	F540206	Bolt #10 unc x 3/4 Pan Hd. Phil.	2
7	KE80037	Contact Block. Closed - Obsolete	1
8	KE80034	Light Unit. Contact Block - Obsolete	1
9	Ref.	Harness - See Note 1	1
10	KE80036	Contact Block. Open - Obsolete	1
11	KE80014	E-Stop Switch	1

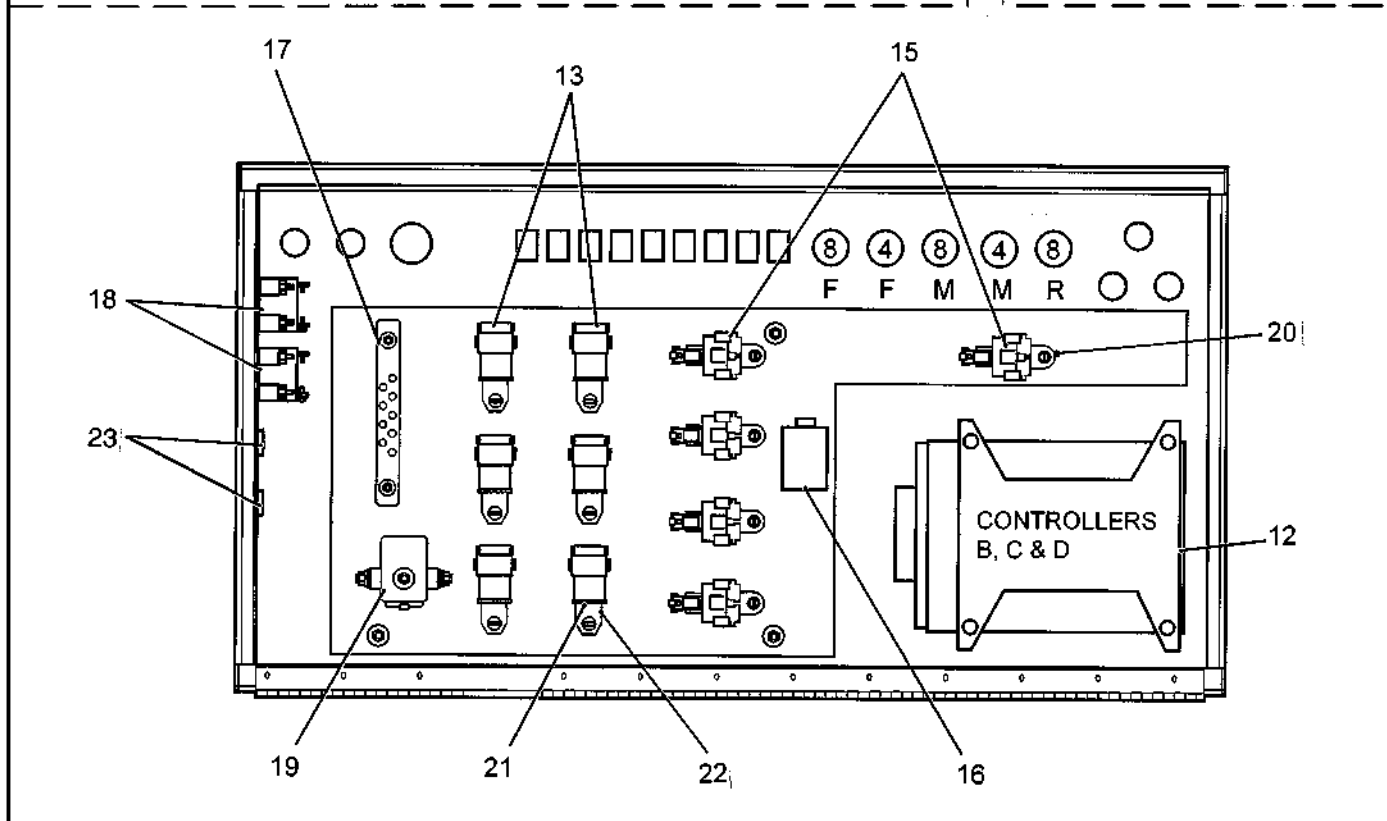
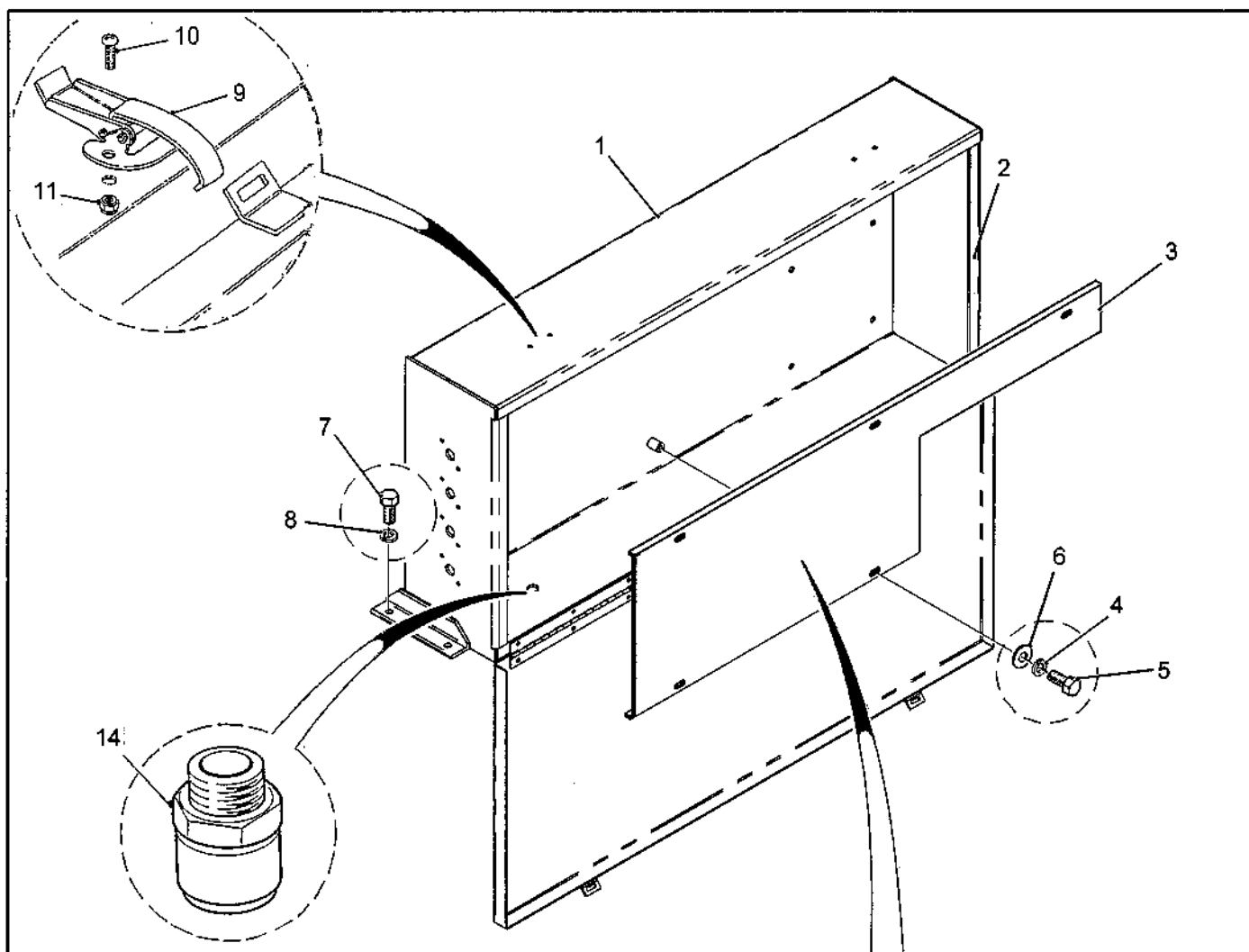
NOTE

Items: 1 & 3 are available
as E-Stop Box Assembly -
A500299

NOTE 1

See Pages 5-03 & 5-03a for
E-Stop Electrical Cable.

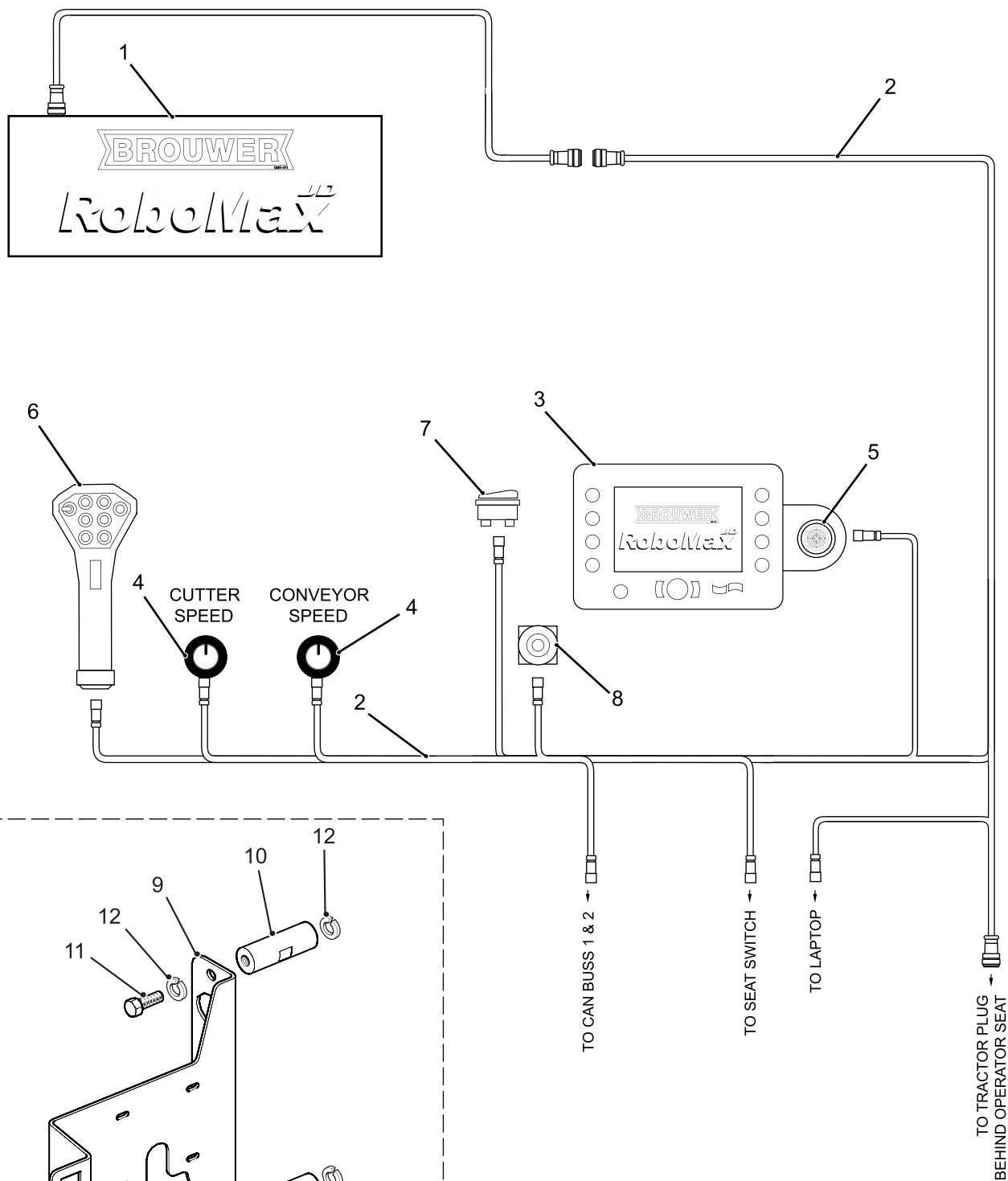




ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD ELECTRICAL BOX ASSEMBLY - NON CURRENT UP TO SERIAL NO. 169	
1	R300032	Electrical Control Box	1
2	Q8316	Gasket	1
3	R100301	Inner Panel. Electrical Control Box	1
4	F310400	Lockwasher 1/4	12
5	F010406	Bolt 1/4-20 unc x 3/4 Gr.5	12
6	F320400	Flatwasher	12
7	F040606	Bolt 3/8 unc x 3/4 Gr.8	4
8	F310600	Lockwasher 3/8	4
9	KM99016	Draw Latch	2
10	F580206	Bolt #10-24 unc x 3/4 Pan Hd. Phil.	4
11	F280200	Locknut #10-24 unc	4
12	KE70014	PLC Controller B	2
	KE70014	PLC Controller C	2
	KE70021	PLC Controller D	2
13	KE30046	Power Buss Plug	6
14	KH99005	Drain	1
15	KE30051	Plug 3 Pin - Male	5
16	35-067	Auto-Steer Relay	1
17	T100949	Power Buss Bar	1
18	KE80027	Breaker 10 AMP	2
19	KE80030	Relay	1
20	KE30047	Mounting Bracket	1
21	KE30043	12 Pin Socket	6
22	R100869	Mounting Bracket. Modified	10
23	Ref.	Hole Plug	2

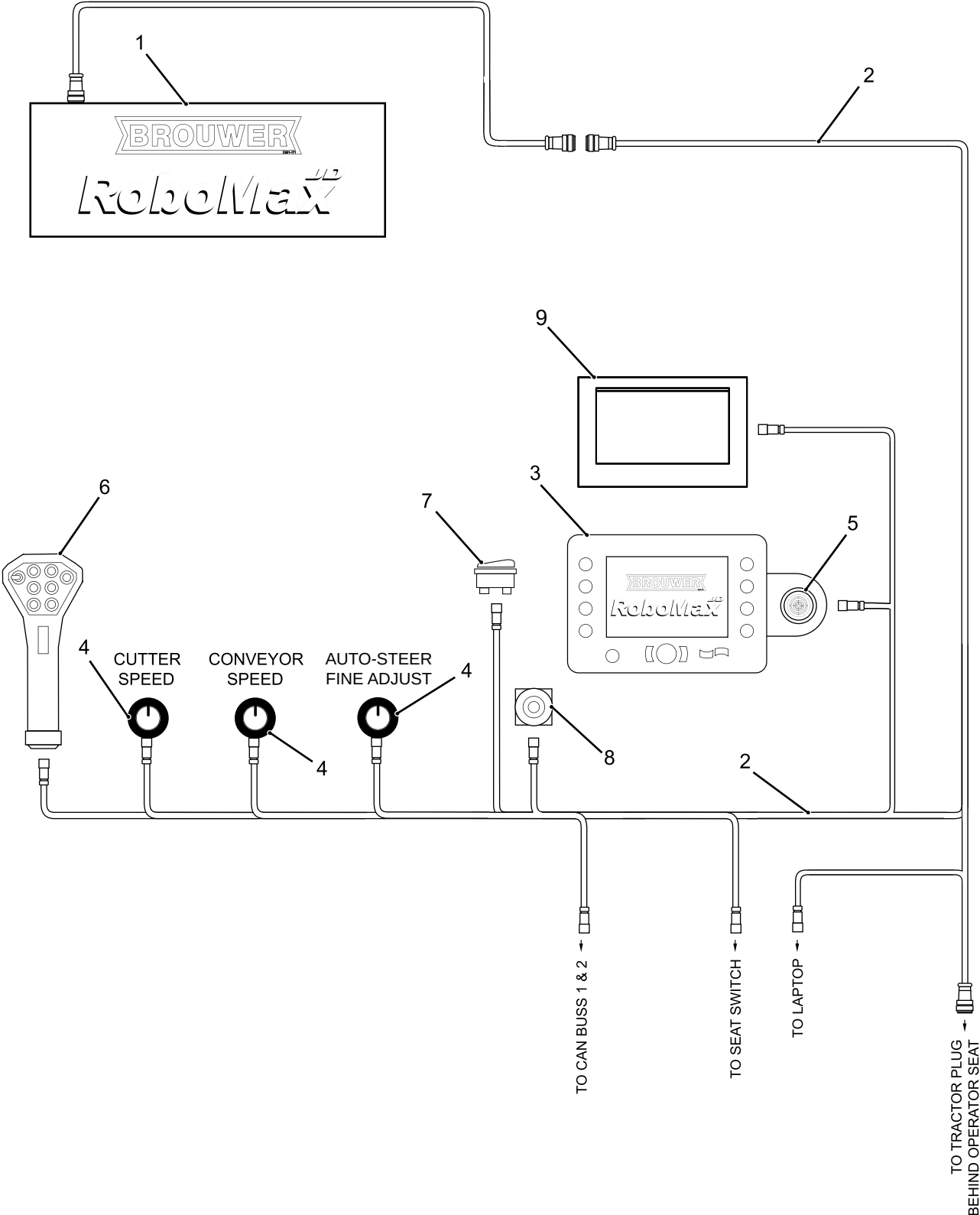
NOTE

PLC B, C & D Controllers are pre-programmed. Do not install a controller that is not identified as PLC B, C or D..

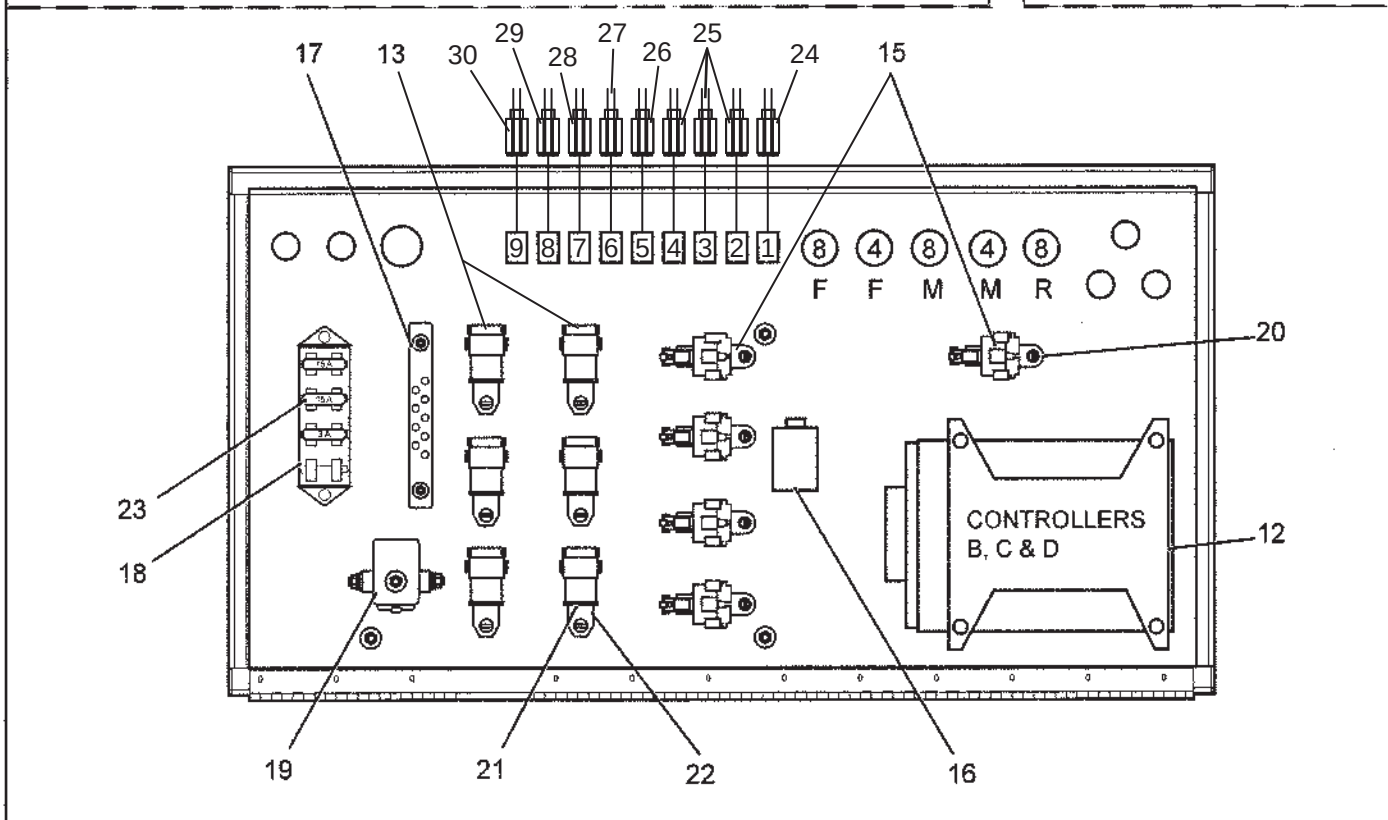
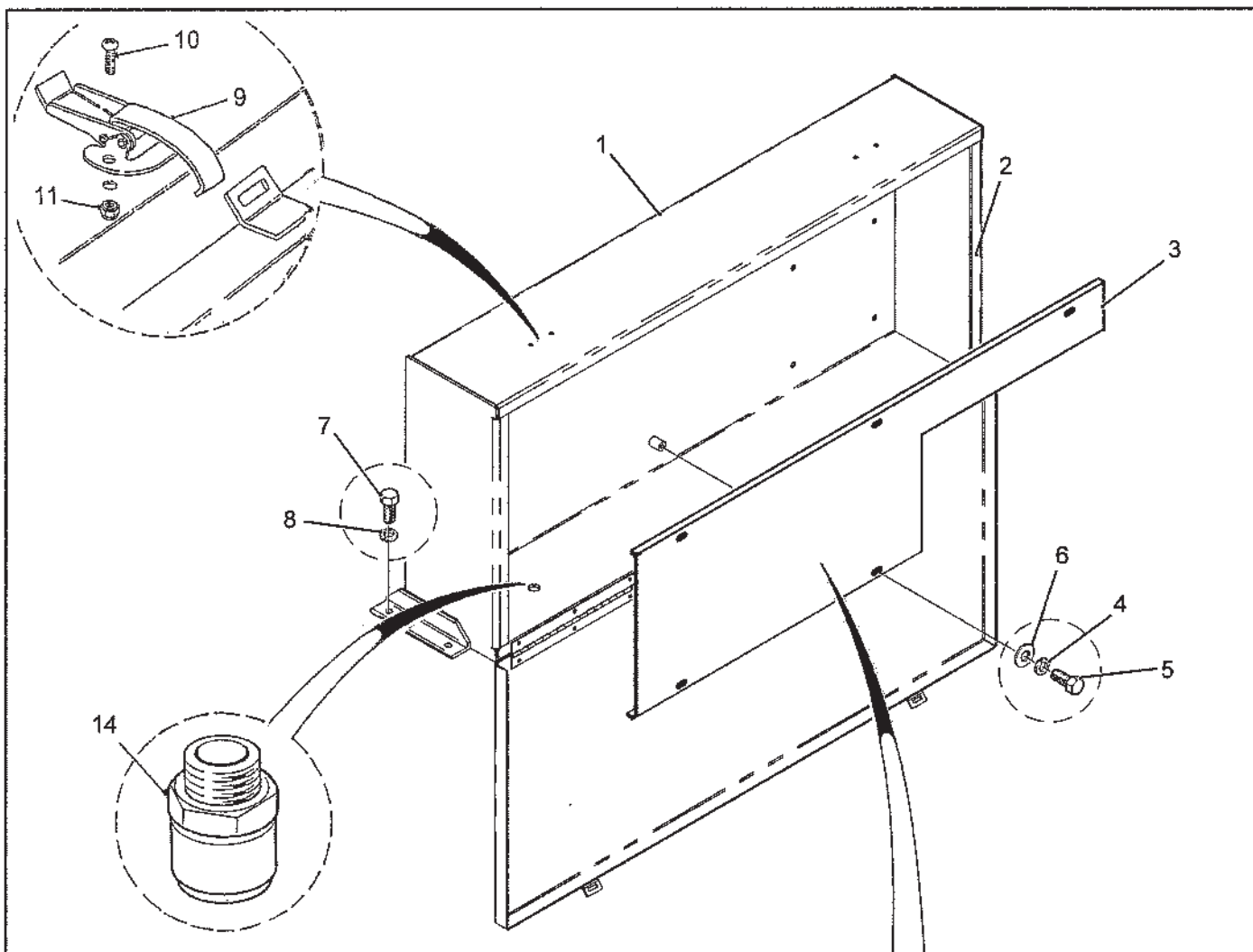


ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE CAB ELECTRICAL HARNESS ASSEMBLY	
1	R500021	Electrical Box	1
2	R500043	Electrical Harness	1
3	KE70016	Operating Screen	1
4	KE10231	Dial	1
	R500059	Dial Assembly	1
5	KE10161	Beeper	1
	KE10162	Volume Control	1
6	R500054	Joystick Control Handle	1
7	KE80024	System Power Switch	1
8	A500147	Emergency Stop Button	1
9	A101364	Screen Mounting	1
10	A101363	Stand Off. Screen Mounting	2
11	F040606	Bolt 3/8 unc x 3/4 Gr.8	4
12	F310600	Lockwasher 3/8	4

Brouwer RobMax John Deere 6105 and up - Cab Harness Diagram



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE 6105 and up CAB ELECTRICAL HARNESS ASSEMBLY	
1	R500164	Electrical Box	1
2	R500165	Electrical Harness	1
3	KE70036	Operating Screen - Current	1
	KE70016	Operating Screen - Non Current	1
4	KM99075	Dial	1
	R500059	Dial Assembly	1
5	KE10161	Beeper	1
	KE10162	Volume Control	1
6	R500054	Joystick Control Handle	1
7	KE80024	System Power Switch	1
8	A500147	Emergency Stop Button	1
9	KE70037	Rear Camera Monitor	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD ELECTRICAL BOX ASSEMBLY - CURRENT FROM SERIAL NO. 170			
1	R300032	Electrical Control Box	1
2	Q8316	Gasket	1
3	R100301	Inner Panel. Electrical Control Box	1
4	F310400	Lockwasher 1/4	12
5	F010406	Bolt 1/4-20 unc x 3/4 Gr.5	12
6	F320400	Flatwasher	12
7	F040606	Bolt 3/8 unc x 3/4 Gr.8	4
8	F310600	Lockwasher 3/8	4
9	KM99016	Draw Latch	2
10	F580206	Bolt #10-24 unc x 3/4 Pan Hd. Phil.	4
11	F280200	Locknut #10-24 unc	4
12	KE70014	PLC Controller B	2
	KE70014	PLC Controller C	2
	KE70021	PLC Controller D	2
13	KE30046	Power Buss Plug	6
14	KH99005	Drain	1
15	KE30051	Plug 3 Pin - Male	5
16	35-067	Auto-Steer Relay	1
17	T100949	Power Buss Bar	1
18	KE10243	Fuse Holder	1
19	KE80030	Relay	1
20	KE30047	Mounting Bracket	1
21	KE30043	12 Pin Socket	6
22	R100869	Mounting Bracket. Modified	10
23	KE10086	15 AMP Fuse	2
24	R500142	Valve Cable #1	1
25	R500141	Valve Cable #2, #3 & #4	3
26	R500140	Valve Cable #5	1
27	R500139	Valve Cable #6	1
28	R500138	Valve Cable #7	1
29	R500137	Valve Cable #8	1
30	R500136	Valve Cable #9	1

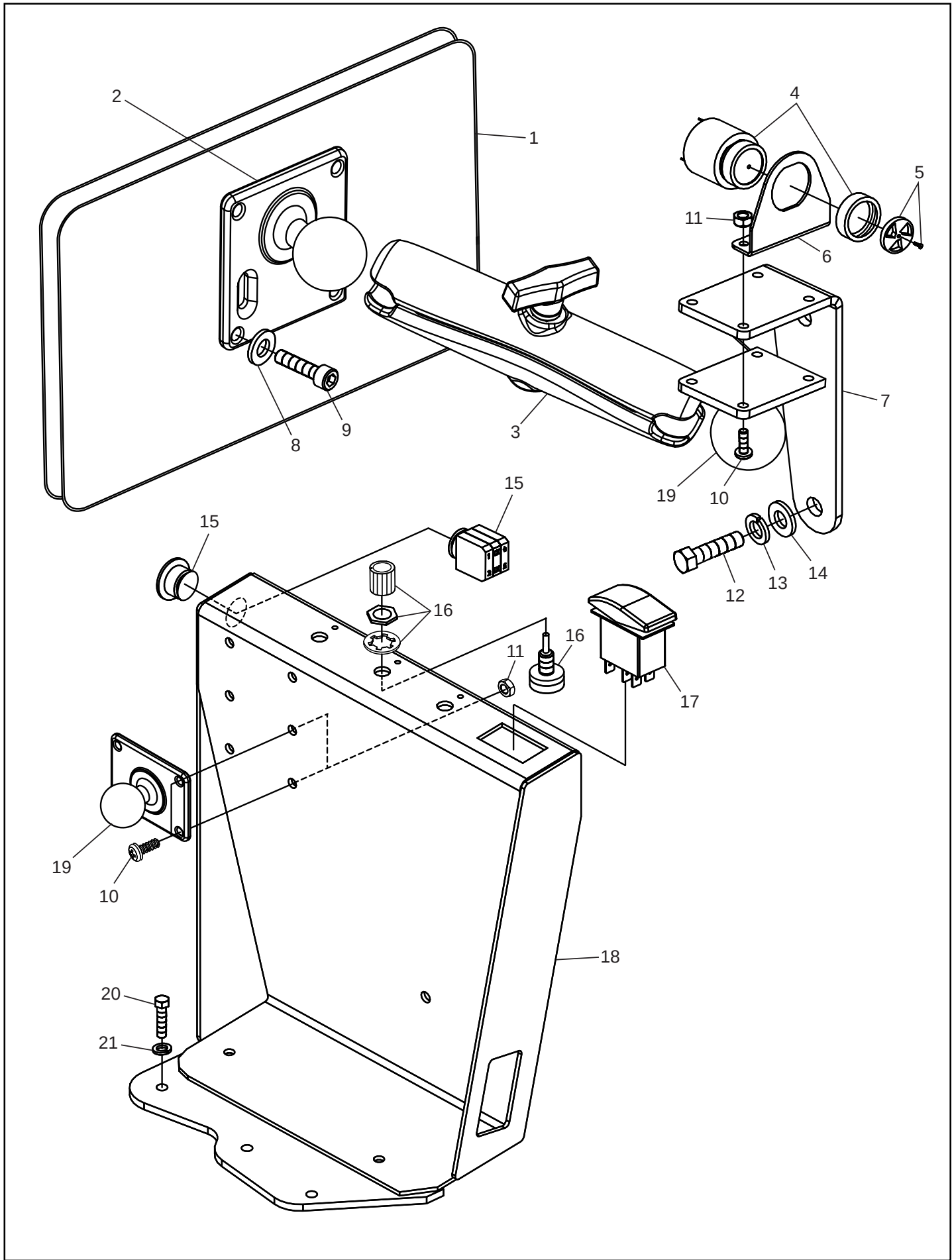
NOTE

PLC B, C & D Controllers are pre-programmed. Do not install a controller that is not identified as PLC B, C or D..

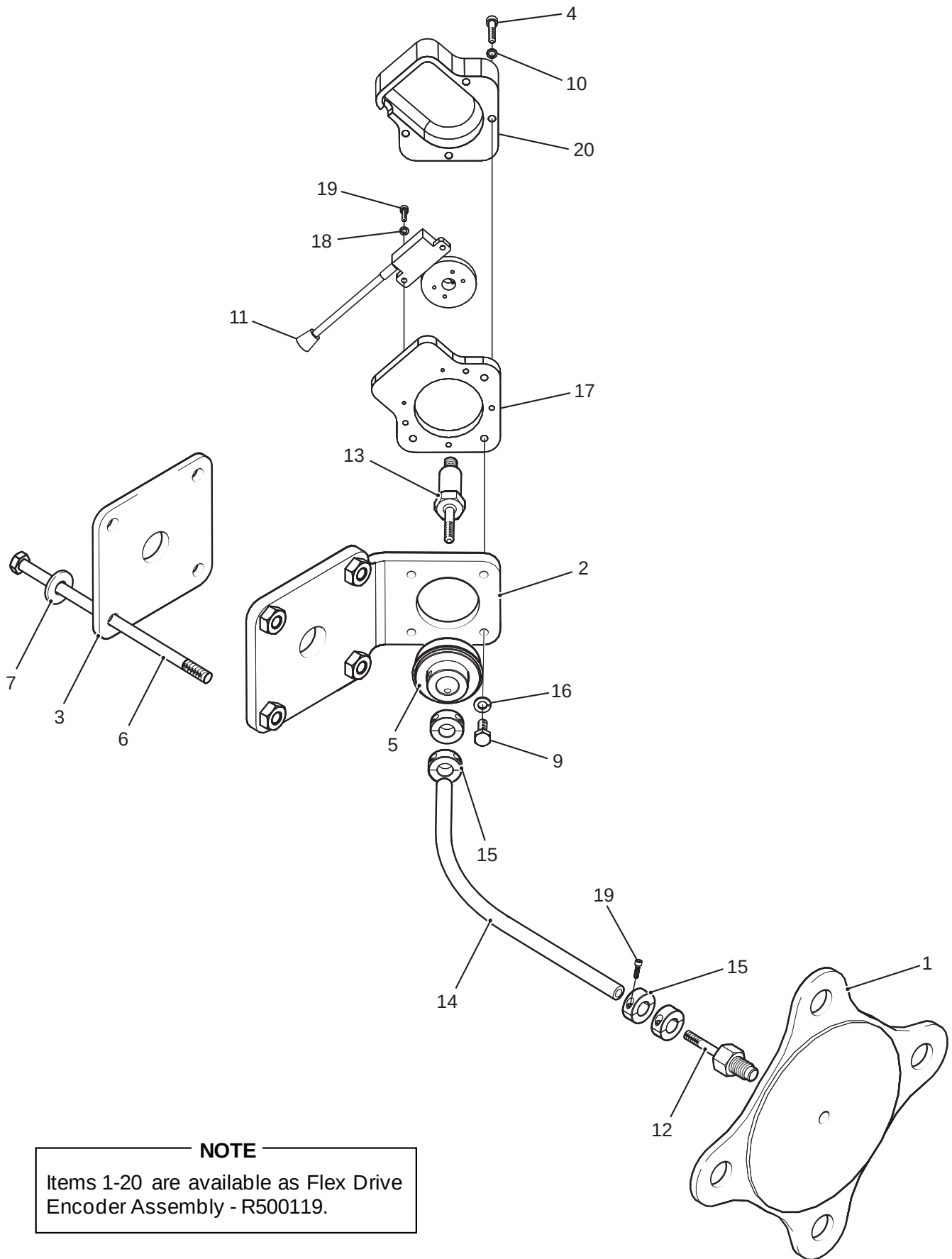
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD 6105 & 6115 ELECTRICAL BOX ASSEMBLY			
1	R300032	Electrical Control Box	1
2	Q8316	Gasket	1
3	R100301	Inner Panel. Electrical Control Box	1
4	F310400	Lockwasher 1/4	12
5	F010406	Bolt 1/4-20 unc x 3/4 Gr.5	12
6	F320400	Flatwasher	12
7	F870510	Bolt 5/16 unc x 1 Flange	4
8	F840500	Serrated Flange Nut 5/16 unc	4
9	KM99016	Draw Latch	2
10	F580206	Bolt #10-24 unc x 3/4 Pan Hd. Phil.	4
11	F280200	Locknut #10-24 unc	4
12	KE70014	PLC Controller B - 50 Pin	2
	KE70014	PLC Controller C - 50 Pin	2
	KE70027	PLC Controller D - 24 Pin	1
13	KE30046	Power Buss Plug	6
14	KH99005	Drain	1
15	KE30051	Plug 3 Pin - Male	5
16	KE10194	Relay Socket	2
17	T100949	Power Buss Bar	1
18	KE10243	Fuse Holder	1
19	35-067	Relay	2
20	KE30047	Mounting Bracket	11
21	KE30043	12 Pin Socket	6
22	KE30084	Deutsch Socket 8 Pin	9
23	KE10082	10 AMP Fuse	1
24	R500142	Valve Cable #1	1
25	R500141	Valve Cable #2, #3 & #4	3
26	R500140	Valve Cable #5	1
27	R500139	Valve Cable #6	1
28	R500138	Valve Cable #7	1
29	R500137	Valve Cable #8	1
30	R500136	Valve Cable #9	1
31	KE60109	Multi-Port Cable 8-Port	3
32	KE60108	Multi-Port Cable 4-Port	1
33	KE60104	Encoder Wire Harness	1
34	KE60161	Can Buss Connector	2
35	KE10148	50 Pin Connector - B & C Controller	2
36	KE30062	12 Pin Connector (Grey) - D Controller	1
37	KE30068	12 Pin Connector (Black) - D Controller	1
38	KE10210	7.5 AMP Fuse	1
39	KE10132	1 AMP Fuse	1

NOTE

PLC B, C & D Controllers are pre-programmed. Do not install a controller that is not identified as PLC B, C or D..



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD 6105 & 6115 CONTROL & SCREEN MOUNTING			
1	KE70036	Operating Screen - Current	1
	KE70016	Operating Screen - Non Current	1
2	KM75005	2 x 2 1/2 in. Base with 1 1/2 in. Ball	1
3	KM75003	Long Double Socket Arm	1
4	KE10161	Beeper	1
5	KE10162	Volume Control	1
6	A101657	Beeper Mounting Bracket	1
7	R300217	Screen Mounting Bracket	1
8	G320400	Washer M4	4
9	G1804012	Bolt M4 x 12 Flat Socket Cap	4
10	F540206	Bolt 10 unc x 3/4 Phil.	8
11	F280200	Locknut #10-24 unc	8
12	F090610	Bolt 3/8 x 1 nc Gr.5	2
13	F310608	Lockwasher 3/8 Gr.8	2
14	F320608	FlatWasher 3/8 Gr.8	2
15	A500147	Emergency Stop Button	1
16	KM99075	Dial	3
	R500059	Dial Assembly	3
17	KE80024	System Power Switch	1
18	R300206	Control Mounting Bracket	1
19	KM75004	2 x 2 1/4 in. Base with Ball	2
20	F040504	Bolt 5/16 unc x 1/2 Gr.8	3
21	F310508	Lockwasher 5/16 unc Gr.8	3

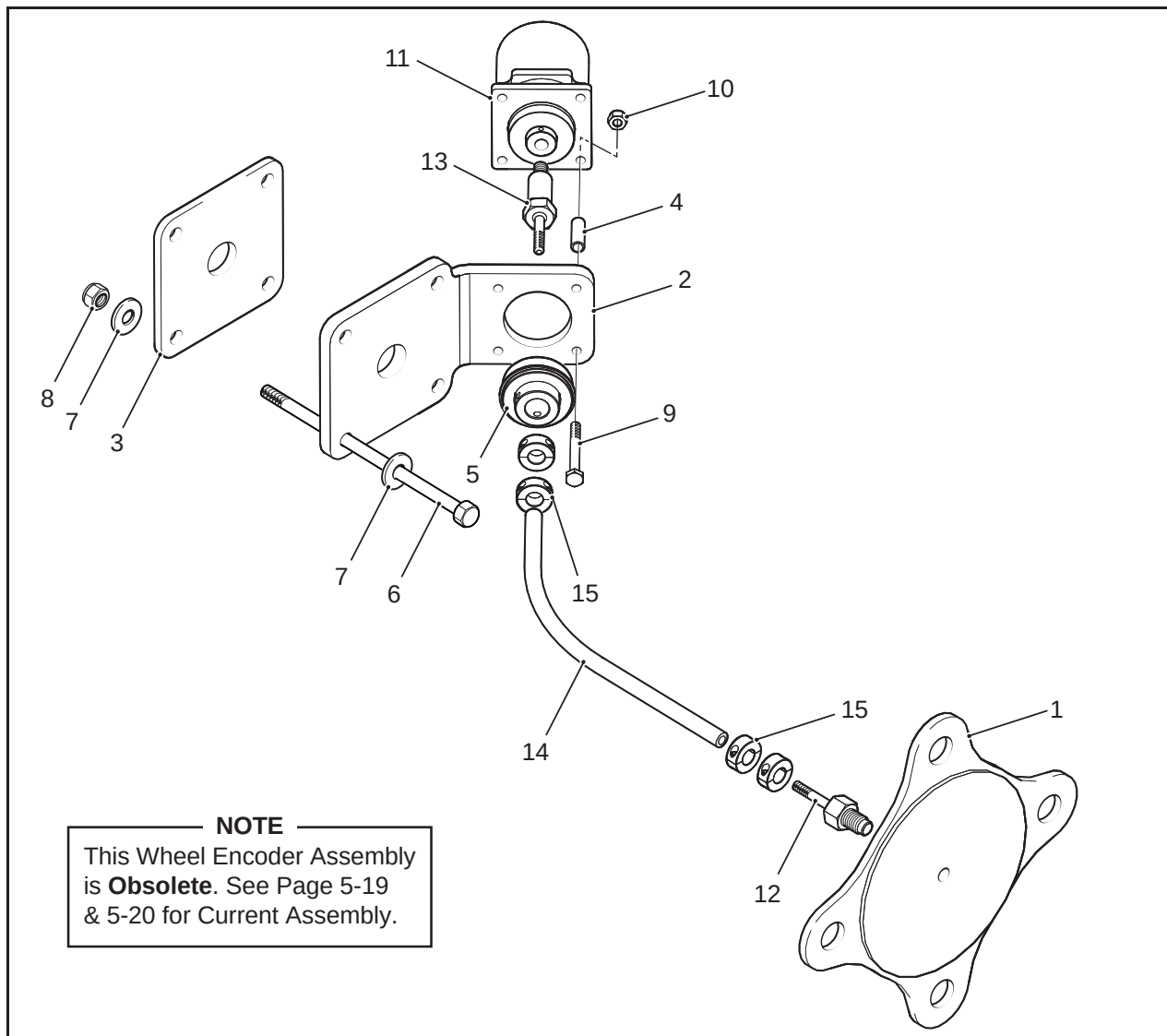


NOTE

Items 1-20 are available as Flex Drive Encoder Assembly - R500119.

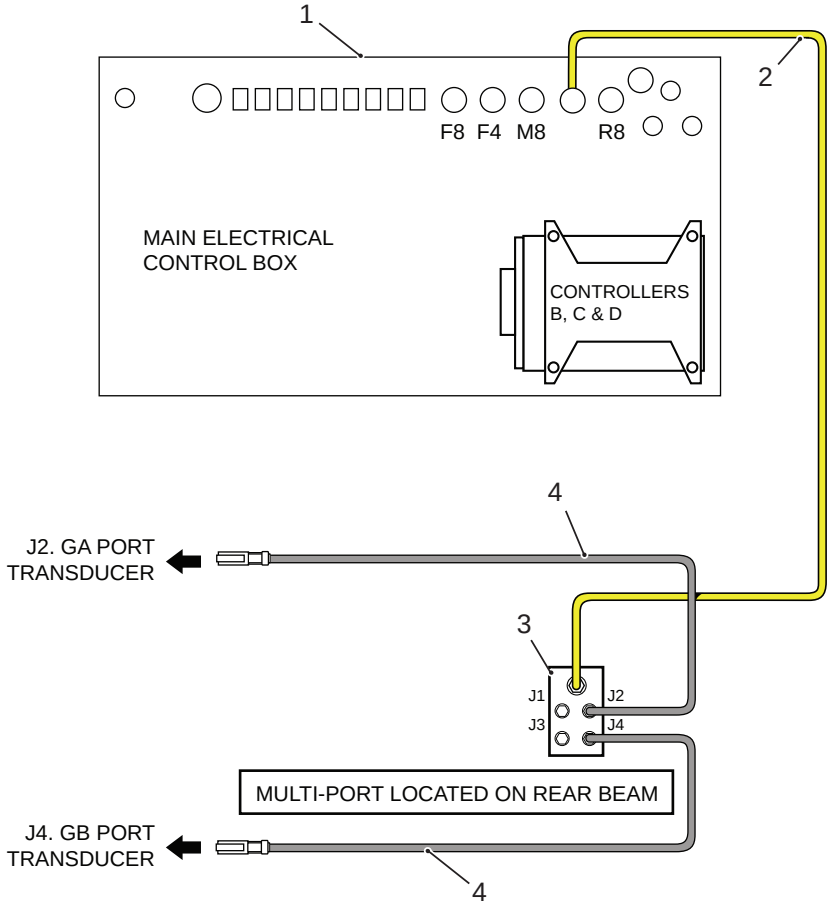
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax JD WHEEL ENCODER ASSEMBLY - Current on Serial No. 214, 216 & Up			
1	R100348	Rear Wheel Encoder Mount	1
2	R300353	Encoder Mounting Plate Weldment - Current from Serial No. 305	1
	R100881	Encoder Mounting Plate - Non Current up to Serial No. 304	1
3	R100882	Encoder Clamp Plate	1
4	F180212	Bolt-10 unc x 1 1/4 Soc. Hd. - Current	4
	F180210	Screw 10-24 x 1.0 Lg. Soc. Hd. Cap - Non Current	4
5	KB20505	Bearing - Encoder Shaft	1
6	F040674	Bolt 3/8 unc x 7.5 Gr.8	4
7	F310608	Lockwasher 3/8 - Current from Serial No. 305	4
	F320600	Flatwasher 3/8 - Non Current up to Serial No. 304	8
8	F210600	Locknut 3/8 unc	4
9	F040406	Bolt 1/4 unc x 3/4 Gr.8	3
10	F310200	Lockwasher #10	4
11	KE10294	Encoder	1
12	R100877	Wheel Encoder Shaft	1
13	R100919	Encoder Shaft	1
14	R100880	Encoder Flex Shaft	1
15	KM10064	Lock Collar 7/16 ID	4
16	F310408	Lockwasher 1/4 Gr.8	3
17	R100920	Sensor Mount	1
18	F310000	Lockwasher #6	3
19	F180008	Screw 6-32 x .50 Lg. Soc. Hd. Cap.	10
20	R101340	Sensor Cover - Current	1
	R100921	Sensor Cover - Non Current	1
NOTE Items 1-20 are available as Flex Drive Encoder Assembly - R500119.			
NOTE Item 3 is now welded to Conveyor Mounting Frame JD 6110 - R300340 (16 in.) and R300341 (24 in.). See page 108.			

ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD WHEEL ENCODER ASSEMBLY - Obsolete	
1	R100348	Rear Wheel Encoder Mount	1
2	R100881	Encoder Mounting Plate	1
3	R100882	Encoder Clamp Plate	1
4	R100883	Encoder Standoff Spacer - Obsolete	4
5	KB20505	Bearing - Encoder Shaft	1
6	F040674	Bolt 3/8 unc x 7.5 Gr.8	4
7	F320600	Flatwasher 3/8	8
8	F210600	Locknut 3/8 unc	4
9	F040422	Bolt 1/4 unc x 2 1/4 Gr.8 - Obsolete	4
10	F210400	Locknut 1/4 unc - Obsolete	4
11	KE10228	Encoder - Obsolete	1
12	R100877	Wheel Encoder Shaft	1
13	R100878	Encoder Shaft - Obsolete	1
14	R100880	Encoder Flex Shaft	1
15	KM10064	Lock Collar 7/16 ID	4

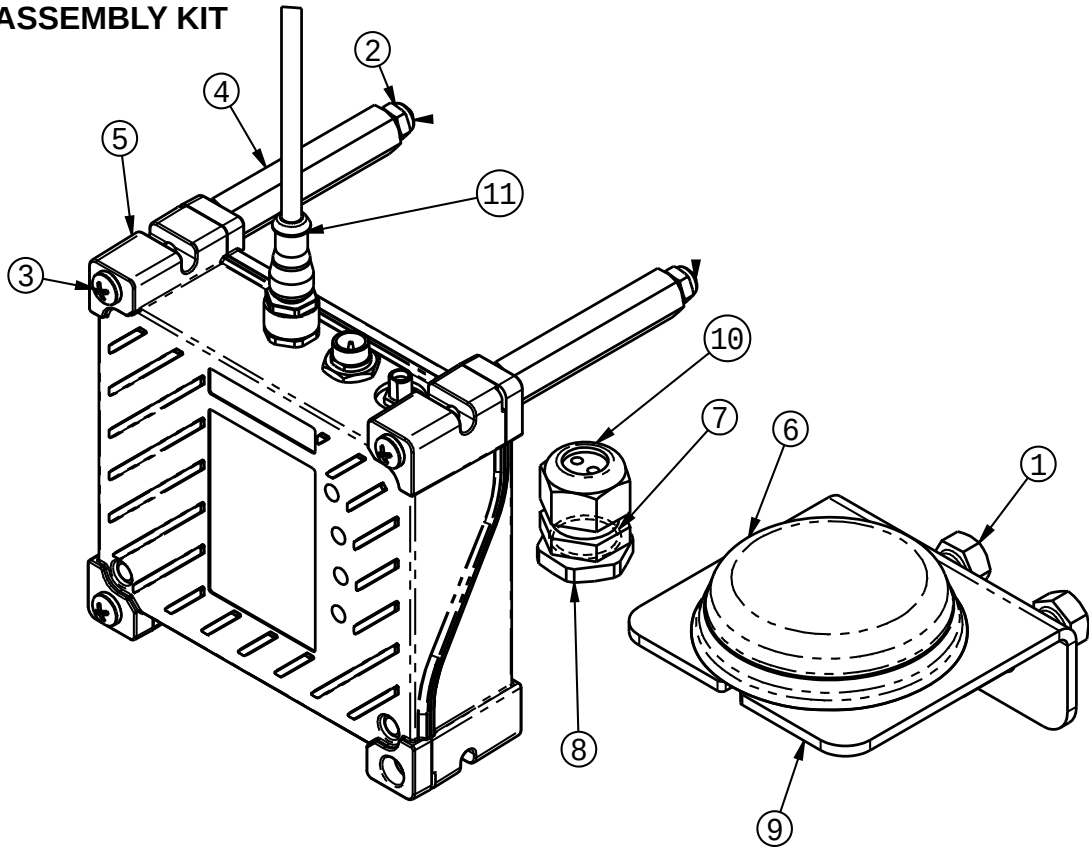


ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax JD Optional Pallet Lift Weight Electrical Diagram	
1	R500164	Electrical Control Box - Full Assembly	1
2	KE60146	M23 CABLE 90° FEMALE STRAIGHT FEMALE 2M LONG	1
3	KE60162	WIRE HARNESS - CONNECTOR 4 PORT MULTI BLOCK NO LED	1
4	KE60188	CABLE - M12 MALE 90° FEMALE STRAIGHT 1M LG.	2

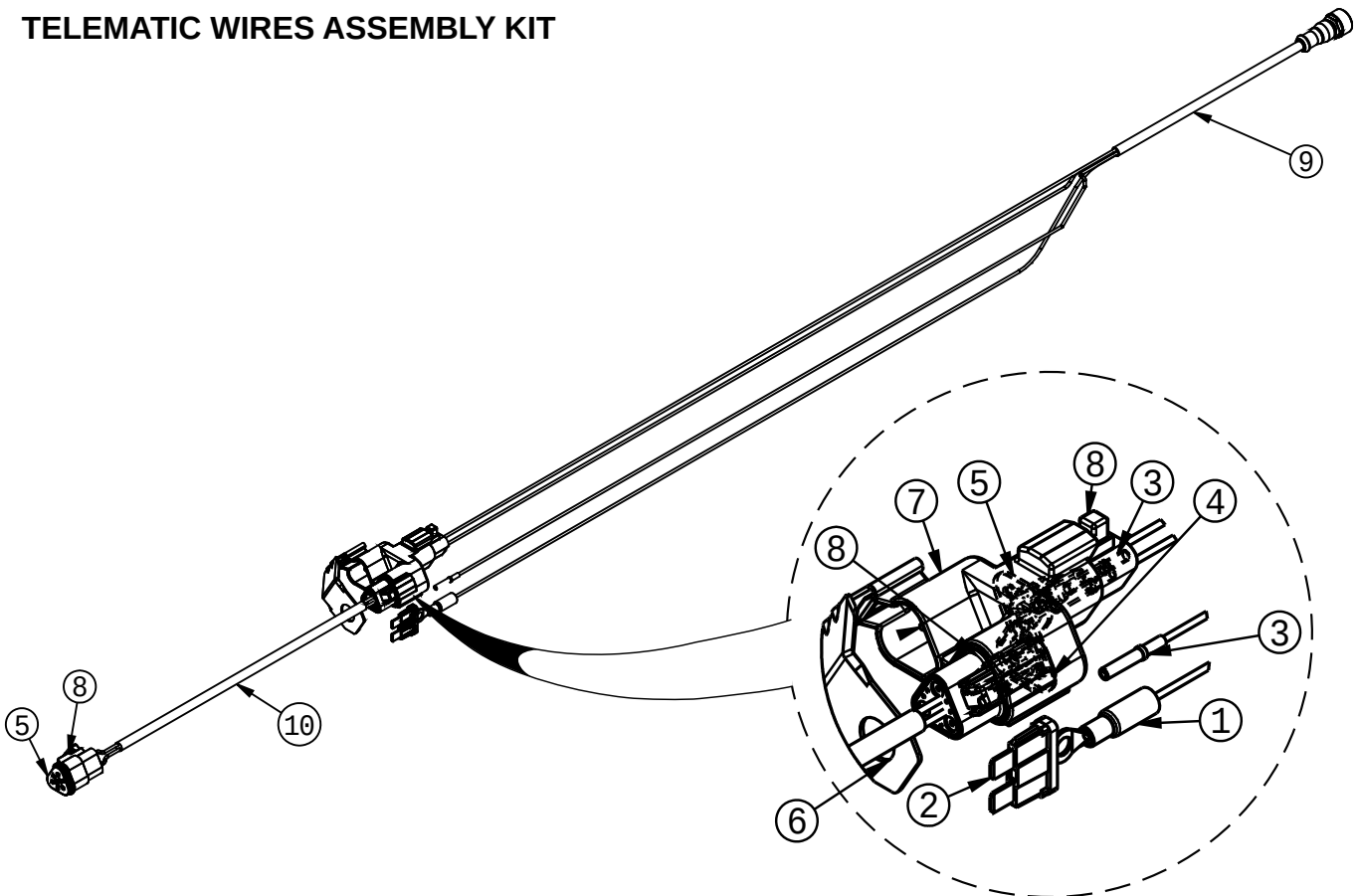
Brouwer RoboMax John Deere Pallet Lift Weight - Electrical Diagram



TELEMATIC ASSEMBLY KIT



TELEMATIC WIRES ASSEMBLY KIT



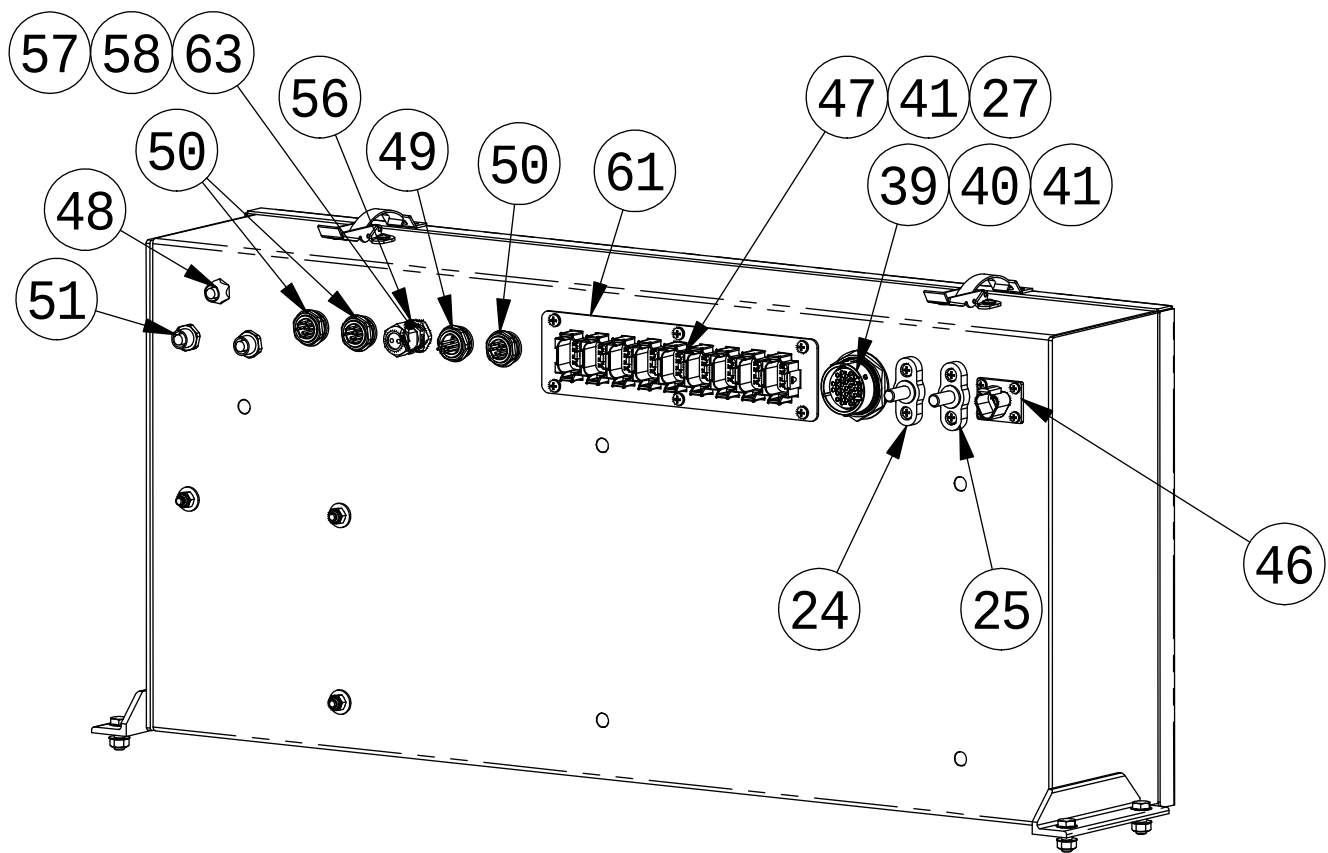
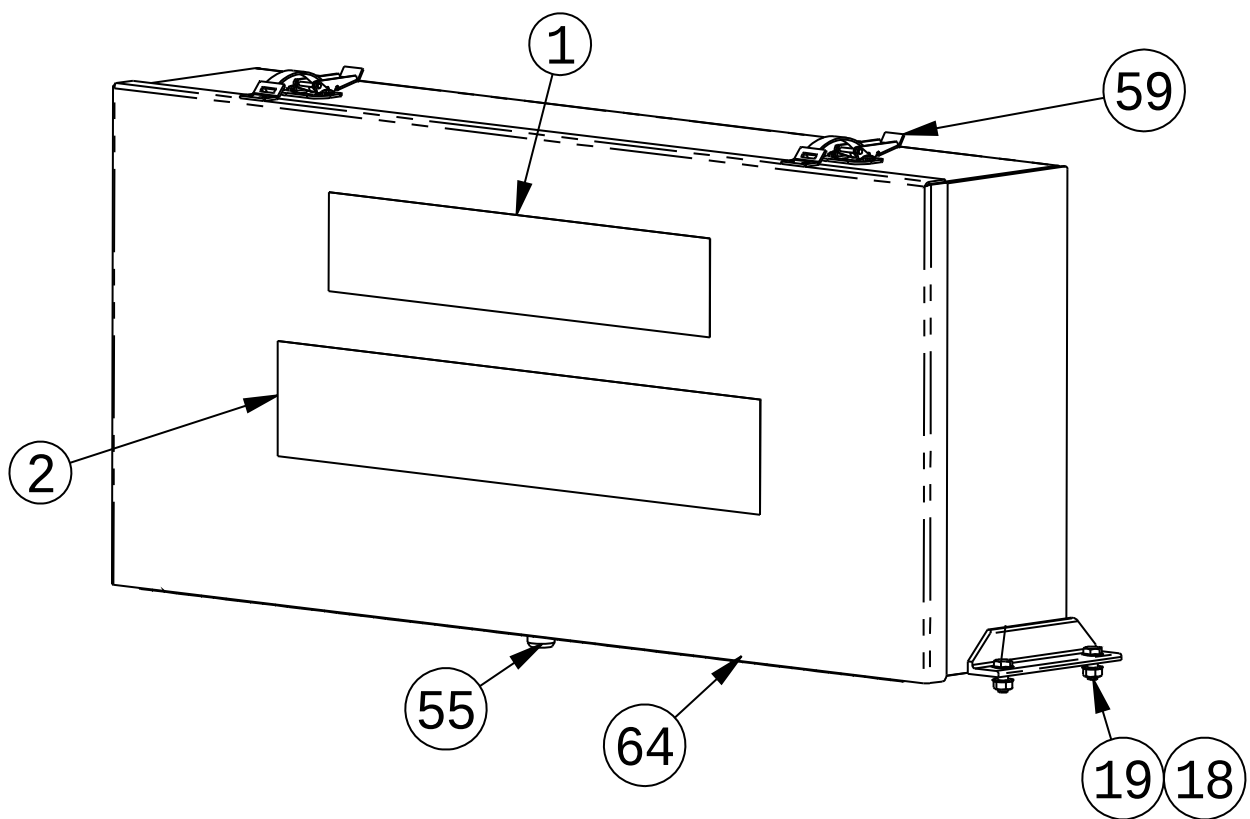
**Brouwer RoboMax John Deere
Telematic Assembly Kit & Wires**

R500437 - Telematic Assembly Kit

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	F040614	2	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
2	F280250	3	10-32 NYLOC NUT S/S
3	F570220	3	PAN HD PHIL 10-32 x 2.00 LG. ST STL
4	F960224	3	STAND-OFF 1/2 HEX M-F 10-32
5	KE70044	1	TELEMATICS MODULE WS 403
6	KE70045	1	TELEMATICS GSM/GPS ANTENNA
7	KM30023	1	BUNA-N O-RING PG 11
8	KM30024	1	NYLON LOCKING NUT PG 11
9	R101949	1	TELEMATIC ANTENNA BRACKET
10	R101951	1	STRAIN RELIEF FITTING MOD
11	R500438	1	TELEMATIC WIRES ASSEMBLY KIT

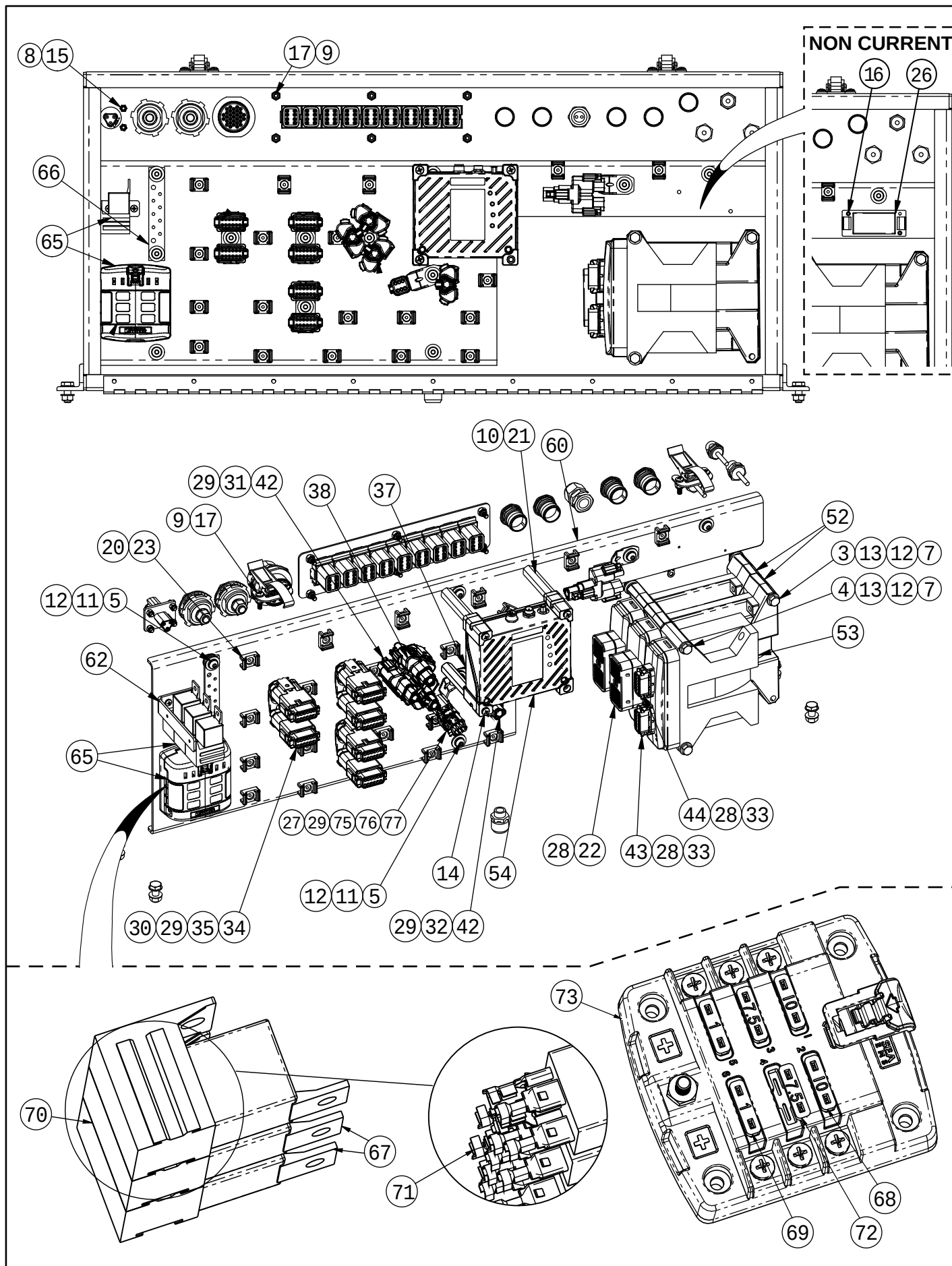
B500438 - Telematic Wires Assembly Kit

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	KE10082	1	RING TERMINAL RED
2	KE10132	1	FUSE - 1 AMP ATO
3	KE30015	7	DEUTSCH SOCKET SIZE 16
4	KE30024	1	WEDGE - 3 PIN ORANGE
5	KE30026	2	WEDGE - 3 PIN BLUE
6	KE30047	1	MOUNTING BRACKET - DEUTSCH PLUG
7	KE30051	1	DEUTSCH DT PLUG - 3
8	KE30061	3	DEUTSCH DT SOCKET - 3 PIN
9	KE70046	1	TELEMATIC WIRES
10	Q8158-010.00	1	22 GA. 1 PAIR BELDEN 10 IN.



Brouwer RoboMax John Deere
Panel Box JD Assembly - CURRENT

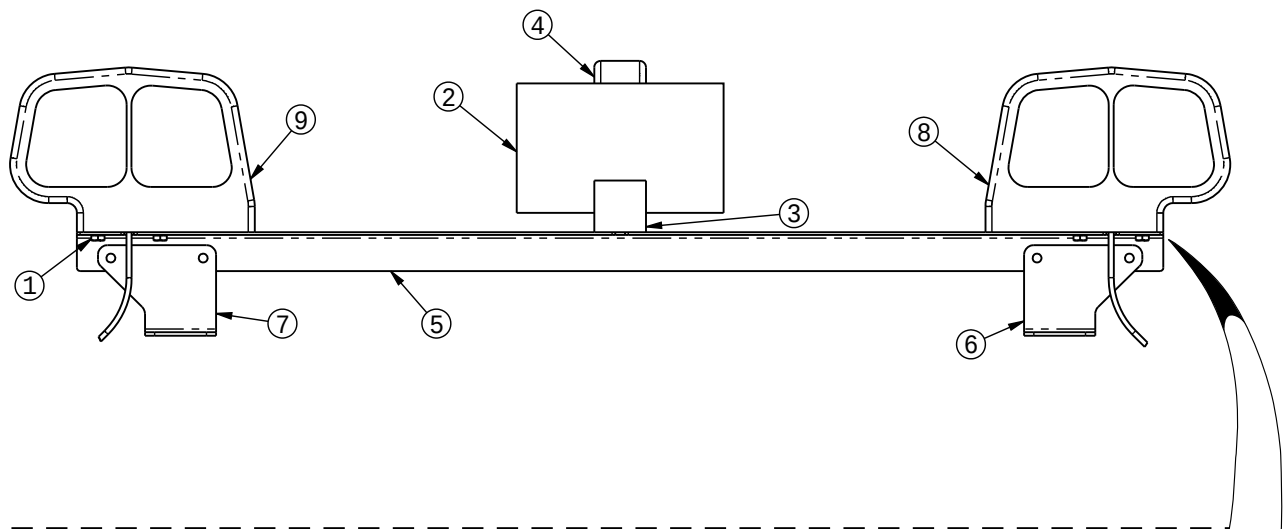
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	D001-162	1	DECAL - BROUWER
2	D001-211	1	DECAL - ROBOMAX JD
3	F040444	1	BOLT 1/4 - UNC x 4.5 Gr 8
4	F040462	2	BOLT 1/4 - UNC x 6.25 Gr 8
5	F160406	12	BOLT - 1/4 UNC x 3/4 BUTTON HD HEX SOC
6	F180B04	2	SOCKET HD #4-40 x 0.50 LG. ZN PL - NON CURRENT
7	F210408	3	1/4-20 UNC NYLOC NUT GR 8
8	F280100	4	NUT 8-32 UNC NYLON LOCK ST. STL
9	F280200	10	HEX NYLOC - 10-24 UNC ST.ST.
10	F280250	3	10-32 NYLOC NUT S/S - OPTIONAL (FOR TELEMATICS)
11	F310408	12	WASHER - 1/4 LOCK GR 8
12	F320408	19	WASHER - 1/4 Gr 8
13	F380407	6	RUBBER WASHER 1/4
14	F570220	3	PAN HD PHIL 10-32 x 2.00 LG. ST STL - OPTIONAL (FOR TELEMATICS)
15	F580106	10	PAN HD PHIL - #8-32 ST. STL.
16	F580204	4	#10-24 UNC X 1/2 PHMS S.S. - NON CURRENT
17	F580206	10	#10-24 UNC X 3/4 PHMS S.S.
18	F840500	4	SERRATED FLANGE NUT 5/16 UNC
19	F870506	4	BOLT FLANGE HEAD 5/16 - 18 X 3/4 Lg
20	F930208	22	POP RIVET, 3/16 ALUMINUM 1/8 - 1/4 GRIP
21	F960224	3	STAND-OFF 1/2 HEX M-F 10-32 - OPTIONAL (FOR TELEMATICS)
22	KE10148	2	50 PIN MATING CONNECTOR
23	KE10185	22	CABLE TIE MOUNT
24	KE10284	1	JUNCTION BLOCK STUD FEED THROUGH - BLACK - NON CURRENT
	KE10423	1	FEED THROUGH STUD - BLACK - 250 A - CURRENT
25	KE10285	1	JUNCTION BLOCK STUD FEED THROUGH - RED - NON CURRENT
	KE10424	1	FEED THROUGH STUD - RED - 250 A - CURRENT
26	KE10343	1	DC - DC CONVERTER 12-24 - NON CURRENT
27	KE30005	78	DEUTSCH SOLID PIN 16, 18, 20 AWG
28	KE30014	124	DEUTSCH SOLID PIN 16, 18, 20 AWG
29	KE30015	123	DEUTSCH SOCKET SIZE 16
30	KE30023	6	WEDGE - 12 PIN DT RECEPTACLE
31	KE30024	5	WEDGE - 3 PIN ORANGE
32	KE30026	10	WEDGE - 3 PIN BLUE
33	KE30032	2	WEDGE - 12 PIN DTM PLUG
34	KE30043	6	POWER BUSS PLUG
35	KE30046	6	GROUND BUSS - 12 PIN
36	KE30047	2	MOUNTING BRACKET - DEUTSCH PLUG
37	KE30047	10	MOUNTING BRACKET - DEUTSCH PLUG
38	KE30051	5	DEUTSCH DT PLUG - 3
39	KE30053	1	DEUTSCH H30 HOUSING CONNECTOR
40	KE30054	1	DEUTSCH HD30 NUT
41	KE30055	1	DEUTSCH LOCK WASHER
42	KE30061	15	DEUTSCH DT SOCKET - 3 PIN
43	KE30062	1	DEUTSCH DTM PLUG - 12 PIN A
44	KE30068	1	DEUTSCH DTM PLUG - 12 PIN B
41	KE30084	9	DEUTSCH SOCKET - 8 PIN
46	KE30089	1	DEUTSCH DT 3 PIN RECEPTACLE W/ FLANGE
47	KE30121	9	WEDGE - 8 PIN PLUG
48	KE60104	1	WIRE HARNESS - ENCODER BOX WIRE
49	KE60108	1	MAIN BOX CONNECTOR FOUR PORT
50	KE60109	4	MAIN BOX CONNECTOR EIGHT PORT
51	KE60161	2	WIRE HARNESS - CANBUS RECEPTACLE
52	KE70040	2	PLUS1 CONTROLLER 50 PIN
53	KE70041	1	PLUS1 MICROCONTROLLER 24 PIN
54	KE70044	1	TELEMATICS MODULE WS 403 - OPTIONAL (FOR TELEMATICS)
55	KH99005	1	SELF DRAIN AND BREATHER VENT
56	KM30015	1	E-STOP HOLE PLUG
57	KM30023	1	BUNA-N O-RING PG 11 - OPTIONAL (FOR TELEMATICS)
58	KM30024	1	NYLON LOCKING NUT PG 11 - OPTIONAL (FOR TELEMATICS)



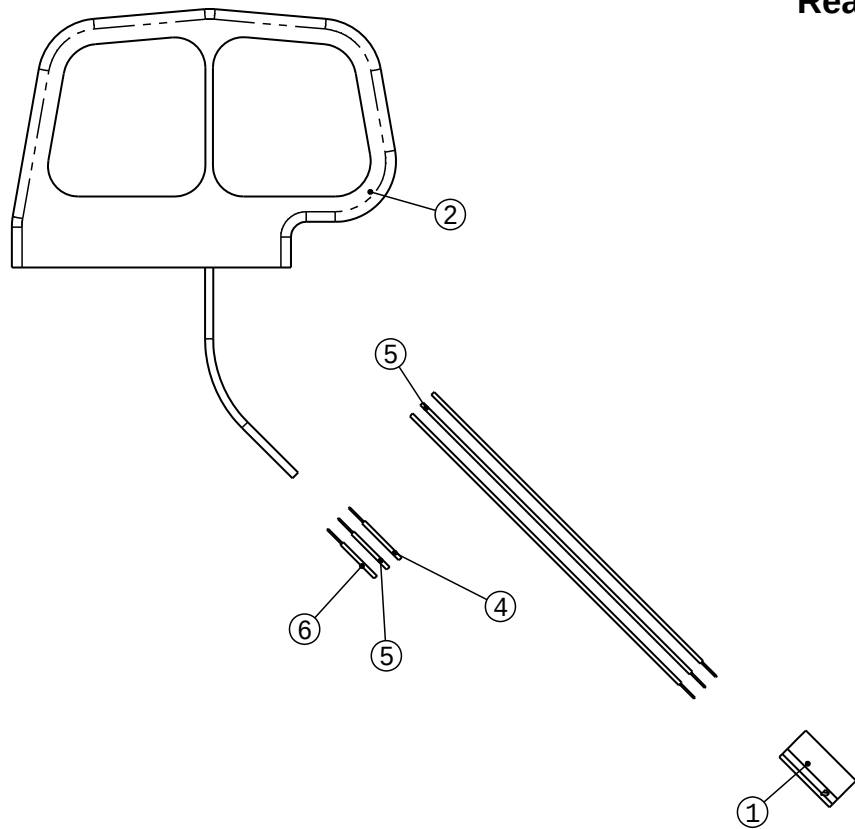
Brouwer RoboMax John Deere
Panel Box JD Assembly - CURRENT

ITEM NO.	PART NO.	QTY.	DESCRIPTION
59	KM99016-LATCH	2	DRAW LATCH
60	R100301	1	INNER PANEL ELECTRICAL BOX ROBOMAX
61	R100517	1	VALVE SOCKET KEEPER PLATE
62	R101945	1	RELAY BRACKET
63	R101951	1	STRAIN RELIEF FITTING MOD - OPTIONAL (FOR TELEMATICS)
64	R300032	1	ELECTRICAL BOX WELDMENT ROBOMAX
65	R500115	1	FUSE PANEL HOLDER & RELAY ASSEMBLY
66	T100944	1	GROUND BAR
67	35-067	3	RELAY - MINI ISO SPDT FORM C
68	KE10062	2	FUSE - 10 AMP ATO
69	KE10132	2	FUSE - 1 AMP ATO
70	KE10194	3	HEAVY DUTY RELAY BASE
71	KE10195	15	CRIMP TERMINAL - RELAY SOCKET - AMP
72	KE10210	2	FUSE - 7.5 AMP ATO
73	KE10307	1	FUSE BLOCK - 6 CIRCUITS
74	KE70062	1	CK-CC / 180MM LANYARD - CURRENT FROM SERIAL # 419 & UP
75	KE30030	1	WEDGE 6 PIN DT RECEPTACLE - CURRENT FROM SERIAL # 419 & UP
76	KE30129	1	DEUTSCH RECEPTACLE 6 PIN DT 2 - 3 PIN BUS - CURRENT FROM S/N 419 & UP
77	KE30058	1	DEUTSCH DT 6 WAY PLUG - CURRENT FROM SERIAL # 419 & UP

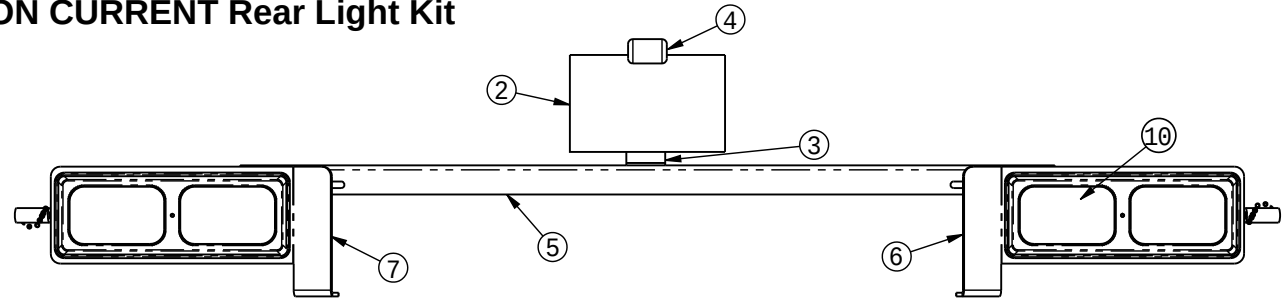
Rear Light Kit



Rear Light Assembly



NON CURRENT Rear Light Kit



Brouwer RoboMax John Deere Rear Light Kit

R500364 - NA Rear Light Kit - CURRENT from Serial # 339, 342 345 and up

R500350 - NA Rear Light Kit - NON CURRENT up to Serial # 338, 341, 343 & 344

R500365 - Euro Rear Light Kit - CURRENT from Serial # 339, 342 345 and up

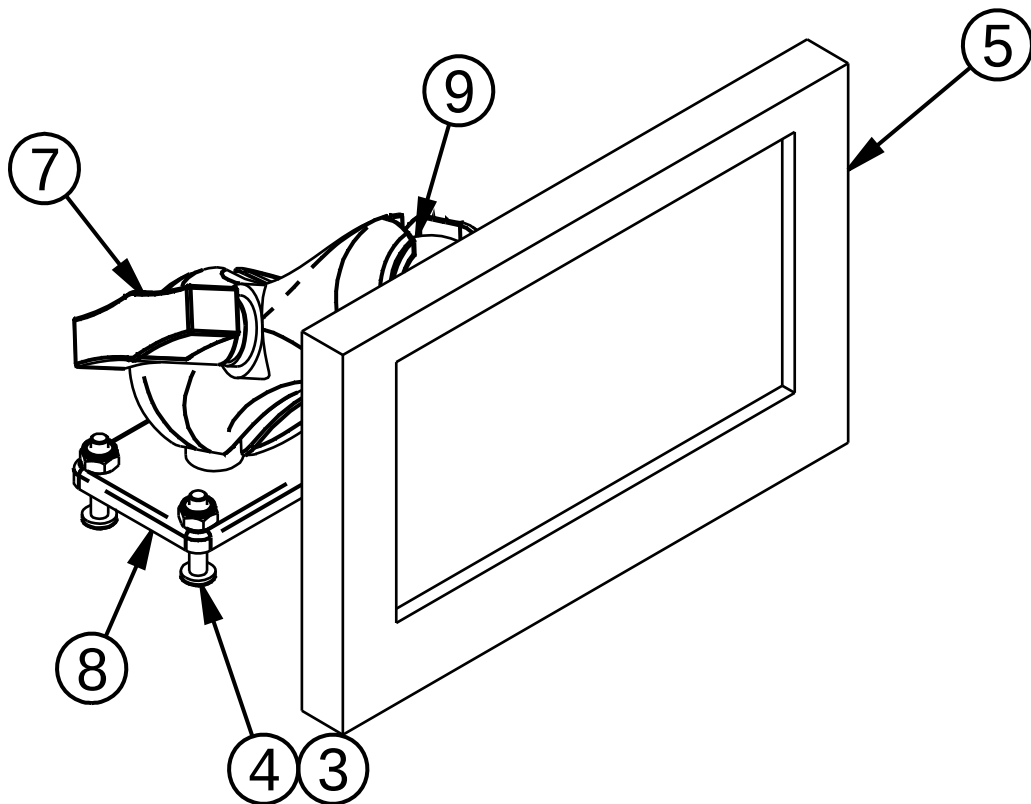
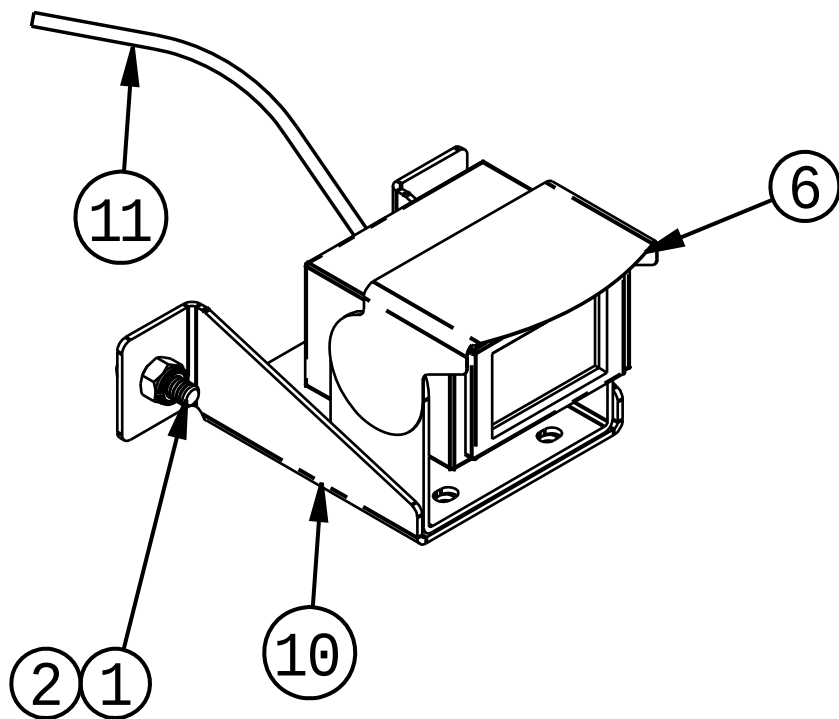
R500146 - Euro Rear Light Kit - NON CURRENT up to Serial # 338, 341, 343 & 344

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	G0408030	4	HEX BOLT M8 x 1.25 x 30 LG. GR 10.9
2	KN02037	1	PLATE BRACKET (EURO ONLY)
3	KN02038	1	SUPPORT BRACKET (EURO ONLY)
4	KN02043	1	LAMP (EURO ONLY)
5	R100771	1	REAR LIGHT TIE BAR
6	R101866	1	REAR LH LIGHT MOUNT - CURRENT
	R100633	1	REAR LIGHT BRACKET LH - NON CURRENT
7	R101867	1	REAR RH LIGHT MOUNT - CURRENT
	R100634	1	REAR LIGHT BRACKET RH - NON CURRENT
8	R500366	1	LH REAR LIGHT ASSY - CURRENT
9	R500367	1	RH REAR LIGHT ASSY - CURRENT
10	R500351	2	ROBOMAX REAR LIGHT ASSEMBLY - NON CURRENT

R500366 - LH Rear Light Assembly

R500367 - RH Rear Light Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	KN02080	1	CONNECTOR - 4 PIN JD LIGHTS
2	KN02099	1	JD LH REAR LIGHT
	KN02100	1	JD RH REAR LIGHT
3	Q8073-072.00	1	18 GA GREY ELECTRICAL WIRE - 72" LG
4	Q8074-072.00	1	18 GA WHITE ELECTRICAL WIRE - 72" LG
5	Q8077-072.00	1	18 GA BLACK ELECTRICAL WIRE - 72" LG
6	Q8080-072.00	1	18 GA BLUE ELECTRICAL WIRE - 72" LG



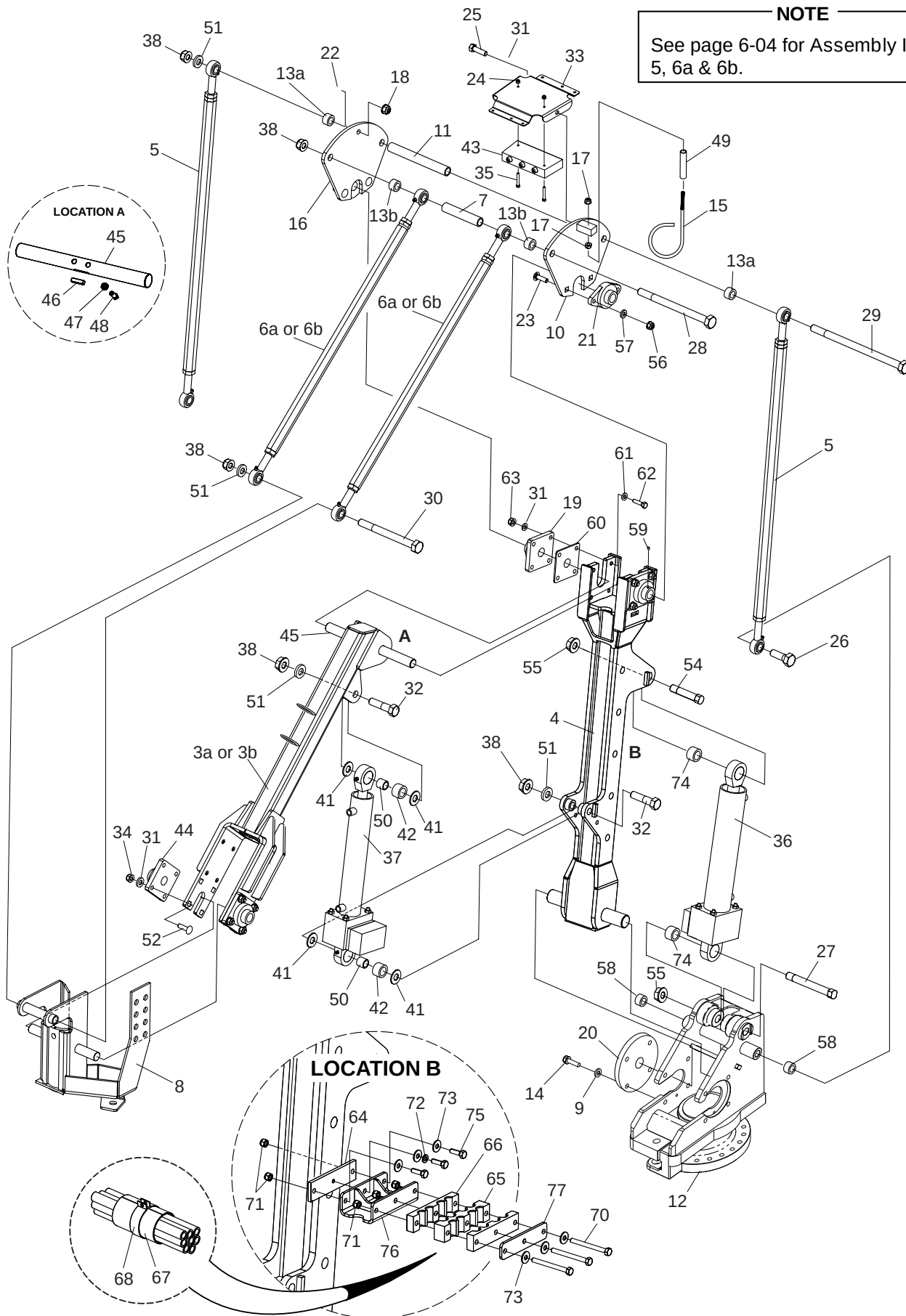
Brouwer RoboMax John Deere
Rear Camera & Display Kit JD 6130 - Current from Serial # 421

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	F040406	2	BOLT 1/4 UNC x 3/4 Gr 8
2	F210400	2	1/4-20 UNC NYLOC NUT
3	F280200	4	HEX NYLOC - 10-24 UNC ST.ST.
4	F540210	4	PAN HD PHIL 10-24 x 1.00 LG.
5	KE70037	1	CAMERA MONITOR
6	KE70038	1	CAMERA ELITE, HEATD, ULTRA LOW LIGHT
7	KM75002	1	RAM - DOUBLE SOCKET ARM
8	KM75004	1	RAM - RECTANGULAR BASE 2 x 2.5 WITH BALL
9	KM75015	1	RAM TRACKED BALL SIZE C
10	R101982	1	CAMERA MOUNTING BRACKET
11	KE70057	1	5M CAMERA CABLE

SECTION 6 ROBOTIC ARM & PALLET DISPENSER

Robotic Arm Assembly	6-01
Gripper Head Assembly	6-05
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Double Sided Pallet – Rotator Assembly (Non Current, Serial # as noted)	6-19
Double Sided Pallet – Piling Wall & Box (Non Current, Serial # as noted)	6-21
Double Sided Pallet Box (Current Serial # as noted)	6-25
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Double Sided Pallet – Rotator Assembly (Current from Serial # 400, and as noted)	6-29
Double Sided Pallet – Piling Wall and Box Mount (Current, Serial # as noted)	6-31

NOTE
See page 6-04 for Assembly Items:
5, 6a & 6b.



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE ROBOTIC ARM ASSEMBLY	
3a	R500079	Reach Arm - Euro	1
3b	R500370	Reach Arm - Standard	1
4	R300043	Lift Arm - Non Current up to Serial No. 176	1
	R300115	Lift Arm - Current from Serial No. 177	1
5	R500284	Linkage Assembly - Lift	2
6a	R500285	Linkage Assembly - Reach - Long - Euro	2
6b	R500369	Linkage Assembly - Reach - Short - Standard	2
7	4136040	Spacer	1
8	R300065	Pivot Head	1
9	F310808	Lockwasher 1/2 Gr.8	8
10	R300064	Pivot Linkage Elbow	1
11	4160736	Spacer. Lift Linkage	1
12	R300016	Main Pivot Arm - Non Current up to Serial No. 176	1
	R300116	Main Pivot Arm - Current from Serial No. 177	1
13a	4134399	Linkage Spacer - Short	2
13b	4160734	Linkage Spacer - Long	2
14	F080816	Bolt 1/2-20 x 1 3/4	2
15	4160130	Wireform - 4 in. Dia.	1
16	R100339	Pivot Linkage Elbow	1
17	F840700	Nut 7/16 unc Serrated	2
18	F840800	Nut 1/2 unc Serrated	1
19	KB31019	Bearing. 4 Bolt - 1 1/4 in.	2
20	KB31024	Bearing. 4 Bolt - 1 1/2 in.	2
21	KB32020	Bearing. 2 Bolt - 1 1/4 in.	2
22	F870810	Bolt 1/2 unc x 1 Flanged	1
23	F021020	Carriage Bolt 5/8 unc x 2	4
24	F210100	Nut #8-32 Nyloc	2
25	F040712	Bolt 7/16 unc x 1 1/2 Gr.8	1
26	F041224	Bolt 3/4 unc x 2 1/2 Gr.8	2
27	R100901	Lower Cylinder Bolt - Non Current up to Serial No. 176	1
	R100892	Lower Pin. Lift Cylinder - Current from Serial No. 177	1
28	F0412110	Bolt 3/4 unc x 11 Gr.8	1
29	F0412140	Bolt 3/4 unc x 14 Gr.8	1
30	F041280	Bolt 3/4 unc x 8 Gr.8	1
31	F310708	Lockwasher 7/16 Gr.8	17
32	F201250	Bolt 3/4 unc x 5 Gr.8	2
33	4160737	Bracket. Can Buss Junction	1
34	F210708	Locknut 7/16 unc Gr.8	16
35	6415262	Bolt #8-32 x 1 1/4	2
36	R500014	Lift Cylinder	1
	KH70116	Seal Kit	1
37	R500015	Reach Cylinder	1
	KH70115	Seal Kit	1
38	F211208	Locknut 3/4 unc Gr.8	5
41	4134564	Thrust Washer	4
42	KB51610	Bearing. Needle Roller	2
43	4160177	Junction Box	1
44	55-FB22016	Bearing. 4 Bolt - 1 in.	2
45	R100333	Reach Arm Pin	1
46	F925512	Key 5/16 x 5/16 x 1 1/4	1
47	F220608	Jam Nut 3/8 unc	2

NOTE

See Page 6-04 for
Linkage Assemblies:
Items 5, 6a & 6b.

NOTE

Items 3, 45, 46, 47 & 48 are
available as Reach Arm Sub
Assembly - R500368.

NOTE

Obsolete Item 19, Non
Current Item 53 and Item 34
are replaced and available as
Reach Arm Bearing Kit -
R500145.

Consisting of:
KB31019 - Item 19 - Qty.1
F670502 - Item 59 - Qty. 1
R101103 - Item 60 - Qty. 1
F030720 - Item 62 - Qty. 4
F210700 - Item 63 - Qty. 4
F310700 - Item 31 - Qty. 4
F330700 - Item 61 - Qty. 4

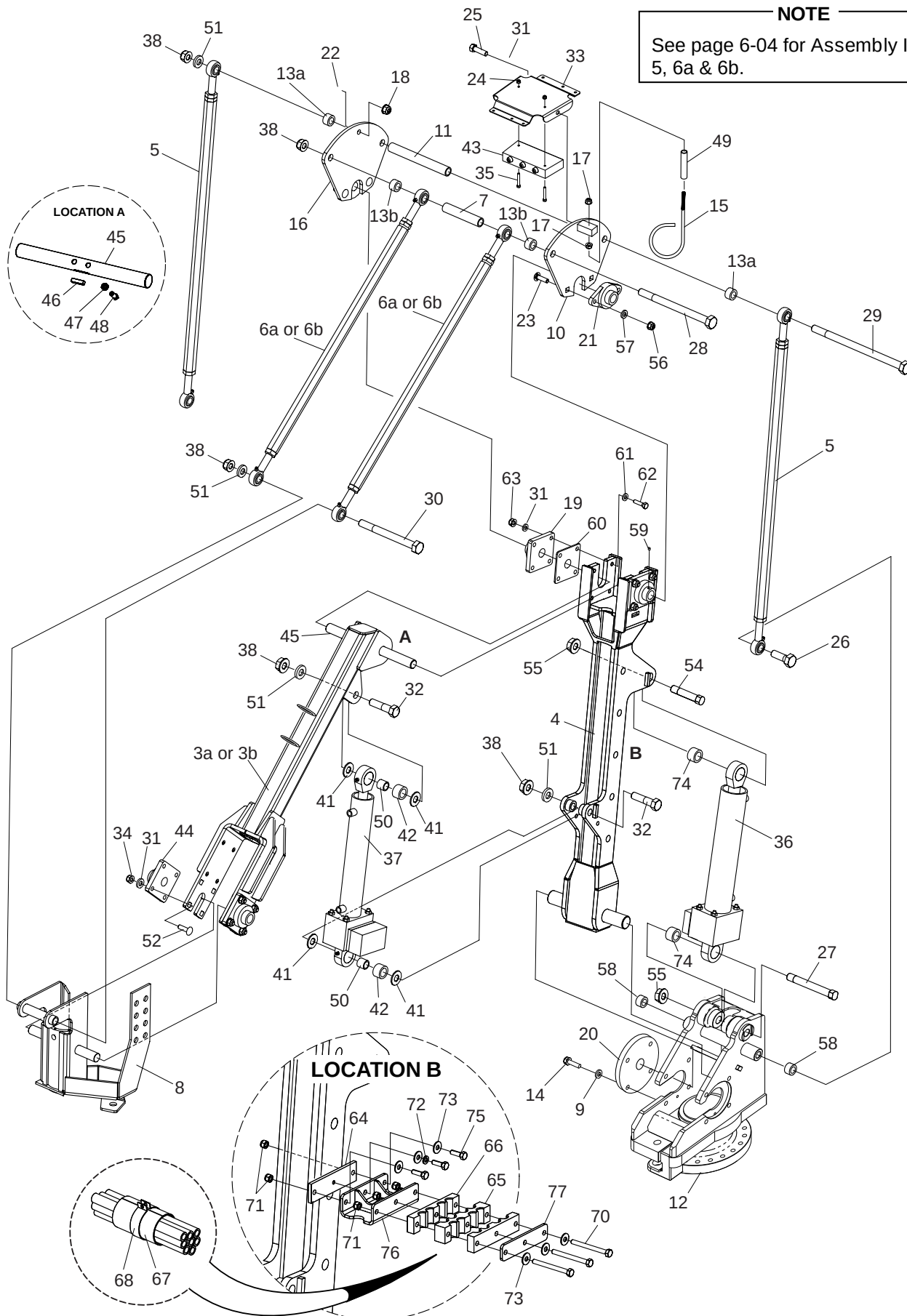
NOTE

Items 4, 12, 27, 54 & 55 are
available as Replacement
JD Arm & Base 1.00 Lift
Cylinder Pins - R500087.

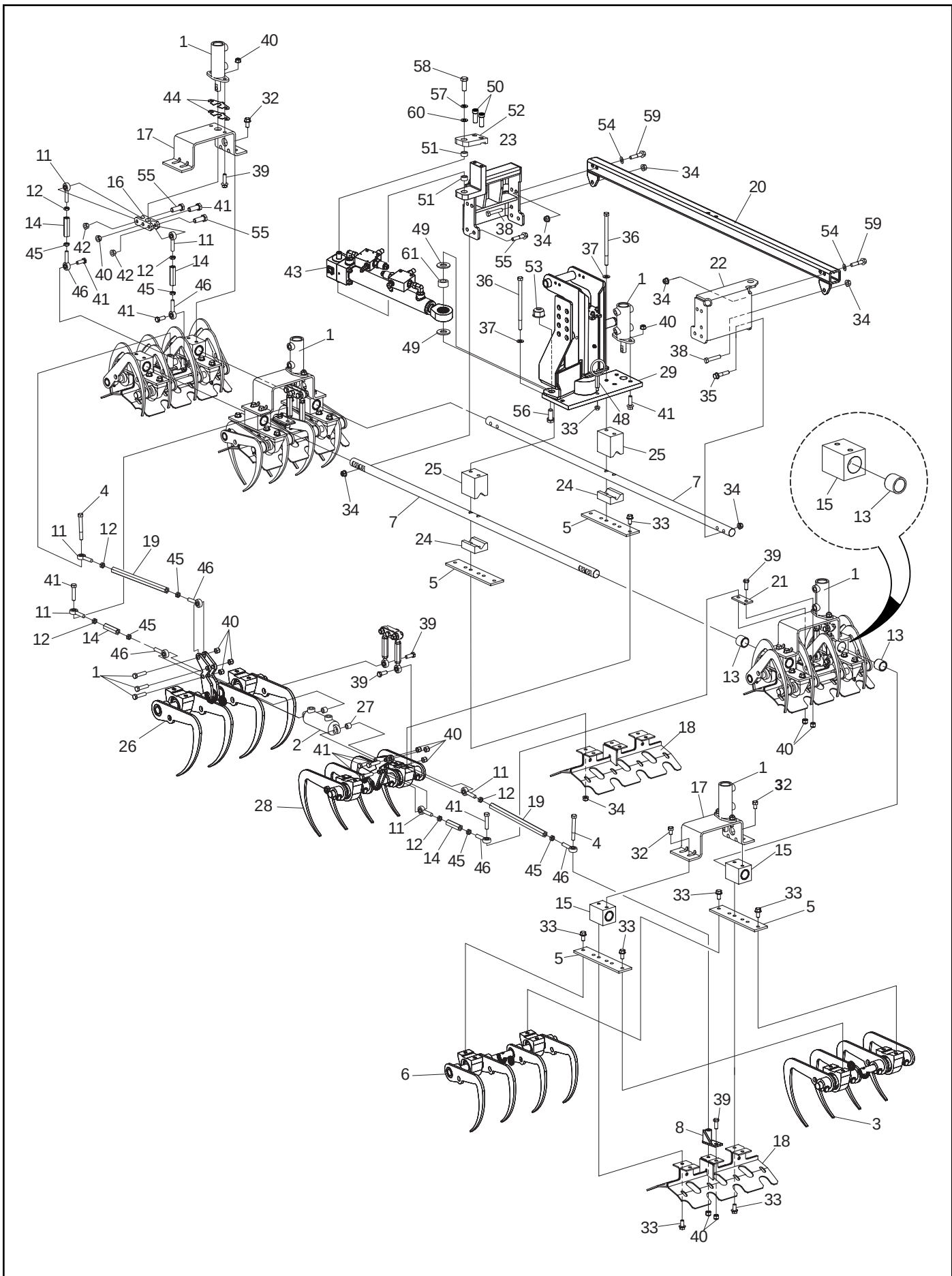
NOTE

Items 41 (2x), 42 & 50 are required
for the .75 in. dia. Bolts on the Non
Current Lift Arm - R300043.

NOTE
See page 6-04 for Assembly Items:
5, 6a & 6b.



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE ROBOTIC ARM ASSEMBLY	
48	F110606	Set Screw 3/8 unc x 3/4	2
49	R100799	Hose Hook Stiffener - Non Current	1
50	4133645	Bearing Sleeve	2
51	F311200	Lockwasher 3/4	4
52	F020714	Carriage Bolt 7/16 unc x 1 1/2	8
53	F030716	Bolt 7/16 unc x 1 5/8 Full Thread - Non Current	8
54	R100891	Upper Pin. Lift Cylinder - Current from Serial No. 177	1
55	F211608	Nut - 1 unc Nyloc Gr.8 - Current from Serial No. 177	2
56	F211008	Locknut 5/8 unc	4
57	F311008	Split Lockwasher 5/8	4
58	4160735	Spacer	2
59	F670502	Set Screw 5/16 un f x 1/4	2
60	R101103	Reach Arm Bearing Shim	2
61	F330708	Flat Washer 7/16 sae Gr.8	8
62	F030720	Hex Bolt 7/16 unc x 2	8
63	F210708	Locknut 7/16 unc Gr.8	16
64	R101110	Hose Clamp Support Bar - Non Current	1
65	R101111	Arm Hose Clamp Centre	1
66	R101112	Arm Hose Clamp Outer	2
67	R101115	Hose Wrap	3
68	KM60032	M8 Series Mag Clamp 74-78	3
70	F040532	Bolt 5/16 unc x 3 1/4 Gr.8	3
71	F210508	Locknut 5/16 unc Gr.8	5
72	F310508	Lockwasher 5/16 unc Gr.8	1
73	F320508	Flatwasher 5/16 uss Gr.8	6
74	KB12828	Bushing 1.00 I.D. x 1.50 O.D. x 1.00 lg.	2
75	F040510	Bolt 5/16 unc x 1 Gr.8	3
76	R300223	Hose Clamp Stand Off	1
77	R101265	Hose Clamp Top Plate	1
		NOTE Assembly Item 5 includes: 1x - R300115 - Lift Arm 1x - CM00121 - Rod End 3/4 in. 1x - CM00122 - Rod End 3/4 in. L.H. 1x - F221210 - Jam Nut 3/4 L.H. 1x - F221200 - Jam Nut 3/4 R.H. Assembly Item 6a includes: 1x - 4160645 - Reach Arm - Euro 1x - CM00121 - Rod End 3/4 in. 1x - CM00122 - Rod End 3/4 in. L.H. 1x - F221210 - Jam Nut 3/4 L.H. 1x - F221200 - Jam Nut 3/4 R.H. Assembly Item 6b includes: 1x - 4129669 - Reach Arm Standard 1x - CM00121 - Rod End 3/4 in. 1x - CM00122 - Rod End 3/4 in. L.H. 1x - F221210 - Jam Nut 3/4 L.H. 1x - F221200 - Jam Nut 3/4 R.H. NOTE Items 3, 45, 46, 47 & 48 are available as Reach Arm Sub Assembly - R500368. NOTE Items 4, 12, 27, 54 & 55 are available as Replacement JD Arm & Base 1.00 Lift Cylinder Pins - R500087. NOTE Items 64 to 77 are available as Robo Arm Hose Clamp Retrofit Kit - R500148. NOTE Item 19, Non Current Item 53 and Item 34 are replaced and available as Reach Arm Bearing Kit - R500145. NOTE Consisting of: KB31019 - Item 19 - Qty.1 F670502 - Item 59 - Qty. 1 R101103 - Item 60 - Qty. 1 F030720 - Item 62 - Qty. 4 F210700 - Item 63 - Qty. 4 F310700 - Item 31 - Qty. 4 F330700 - Item 61 - Qty. 4 NOTE Items 41 (2x), 42 & 50 are required for the .75 in. dia. Bolts on the Non Current Lift Arm - R300043. NOTE Hose Sleeve 1 5/8 I.D. - Q8506 Hose Sleeve 2 7/8 I.D. - Q8509 Hose Sleeve 2 3/8 I.D. - Q8508	



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE GRIPPER HEAD ASSEMBLY	
1	4128723	Cylinder. Face Mount	5
	4160312	4-Port Face Mount Cylinder - Non Current	5
2	4128874	Cylinder	1
3	R500129	Gripper Tong Assembly - Front	4
4	F040630	Bolt 3/8 unc x 3 Gr.8	2
5	4129300	Plate. Frame	10
6	R500130	Gripper Tong Assembly - Rear	4
7	4129259	Shaft. Guide	2
8	R300352	Spacer w/Plate - Current	2
	4129241	Spacer - Non Current	2
11	4128925	Rod End. 3/8 in. Male R.H.	14
12	F220608	Jam Nut 3/8 unc R.H.	14
13	KB11911	Bearing Sleeve - Non Current	8
14	4160364	Adjusting Link - Grasping Tong	12
15	B500245	Linear Guide Block Assembly - Current	8
	4128917	Block. Guide - Non Current	8
16	4142710	Pivot Bracket. Gripper	5
17	4129294	Bracket. Cylinder Mount	4
18	4132920	Roll Bracket - 16 in.	5
	R300133	Roll Bracket - 24 in.	5
19	4160365	Adjusting Link - Gripper Squeeze	2
20	R300367	Gripper Mounting Tube - Current	2
	4160053	Tube. Frame - Non Current	2
21	4132724	Plate. Link	2
22	4137484	Gripper Head Bracket	1
23	R300044	Cylinder Mount	1
24	4128981	Block-V-Lower	2
25	B101593	Block-V-Upper - Current	2
	4128982	Block-V-Upper - Non Current	2
26	R500131	Gripper Tong Assembly - Center Front	1
27	4129317	Spacer	2
28	R500132	Gripper Tong Assembly - Center Rear	1
29	R500372	Gripper Pivot JD Assembly (See Pages 6-15/6-16)	1
31	F040420	Bolt 1/4 unc x 2 Gr.8 - Non Current	48
32	F870605	Bolt 3/8 x 5/8 Gr.5 Flanged	16
33	F870606	Bolt 3/8 x 3/4 Gr.5 Flanged	56
34	F210612	Nut 3/8. Flanged - Stover	24
35	F040616	Bolt 3/8 x 1 3/4. Gr.8	8
36	F040664	Bolt 3/8 unc x 6 1/2 Gr.8	4
37	F330608	Flatwasher 3/8	4
38	F040612	Bolt 3/8 unc x 1 1/4 Gr.8	13
39	F040610	Bolt 3/8 unc x 1 Gr.8	14
40	F210608	Locknut 3/8 unc	39
41	F040614	Bolt 3/8 unc x 1 1/2 Gr.8	15
42	F210600	Hex Locknut 3/8-16 unc	39
43	R500249	Gripper Turn Cylinder Assembly	1
44	B101466	Gripper Cylinder Shim	4
45	F220660	Jam Nut 3/8 unc L.H.	14
46	4160363	Rod End. 3/8 in. Male L.H.	14
48	4160411	Hose Ring Support	1
49	4134564	Thrust Washer	2

NOTE 1

Items 11, 12, 14, 45 & 46 are available as -
Adjusting Link Assembly
Grasping Tong - 4160589.

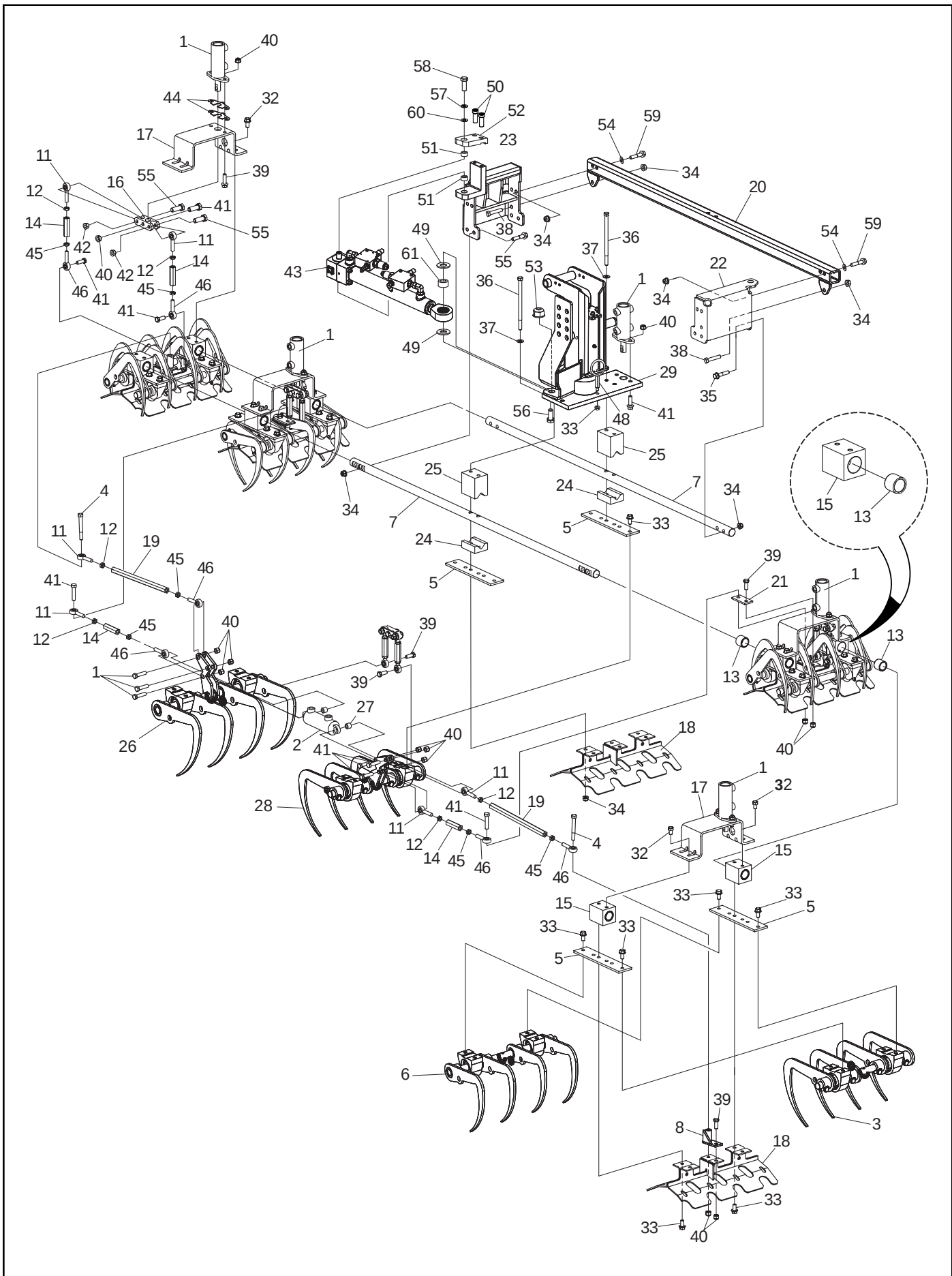
Items 11, 12, 19, 45 & 46 are available as -
Adjusting Link Assembly
Grasping Squeeze - 4160588.

NOTE 2

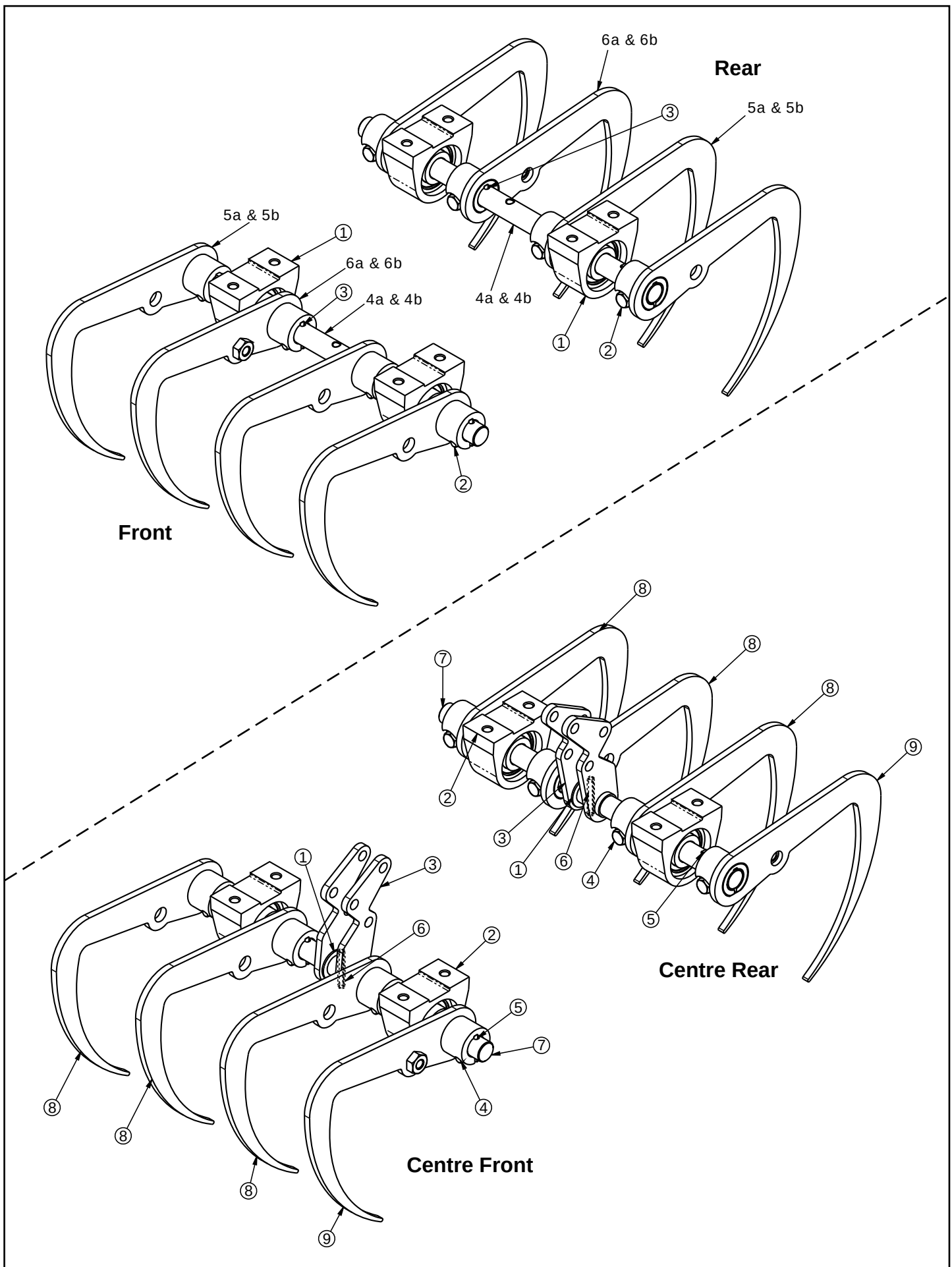
Items 20, 25 & 59. Upgrade
Tubes with Kit Available as:
R500363

NOTE 3

Non Current Item 1 - 4160312 is
replaced by Assembly - 4128723



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE GRIPPER HEAD ASSEMBLY	
50	F180610	Soc. Hd. Cap 3/8 unc x 1 Lg.	2
51	KB11216	Igus Bushing	2
52	R100325	Turn Cylinder Mount	1
53	F211200	Nyloc Nut 3/4 unc	1
54	F310600	Washer 3/8 Lock	8
55	F120614	Bolt 3/8 unc x 1 1/2 Flat Hd Soc Caps	10
56	F041230	Bolt 3/4 unc x 3.00 Gr.8	1
57	F310400	Washer 1/4 Lock	1
58	F040404	Bolt Hex Hd. 1/4 unc x 0.05 Lg. Gr8	1
59	F040624	Bolt Hex Hd. 3/8 unc x 2 1/2 Gr8	8
60	F330400	Flatwasher 1/4 sae	1
61	4133645	Inner Race	1
NOTE Items 11, 12, 14, 45 & 46 are available as - Adjusting Link Assembly Grasping Tong - 4160589. Items 11, 12, 19, 45 & 46 are available as - Adjusting Link Assembly Grasping Squeeze - 4160588.			



Brouwer RoboMax John Deere Gripper Tong Assemblies

Gripper Tong Assembly - Front - R500129

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
2	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
3	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
4a	4128968	1	PIVOT SHAFT WITOUT KEYWAY - NON CURRENT
4b	R100955	1	PIVOT SHAFT - CURRENT
5a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
5b	R300139	3	GRASPING TONG WELDMENT - CURRENT
6a	4135961	1	GRASPING TONG W/ NUT WELDMENT - NON CURRENT
6b	R300140	1	GRASPING TONG W/ NUT WELDMENT - CURRENT

Gripper Tong Assembly - Rear - R500130

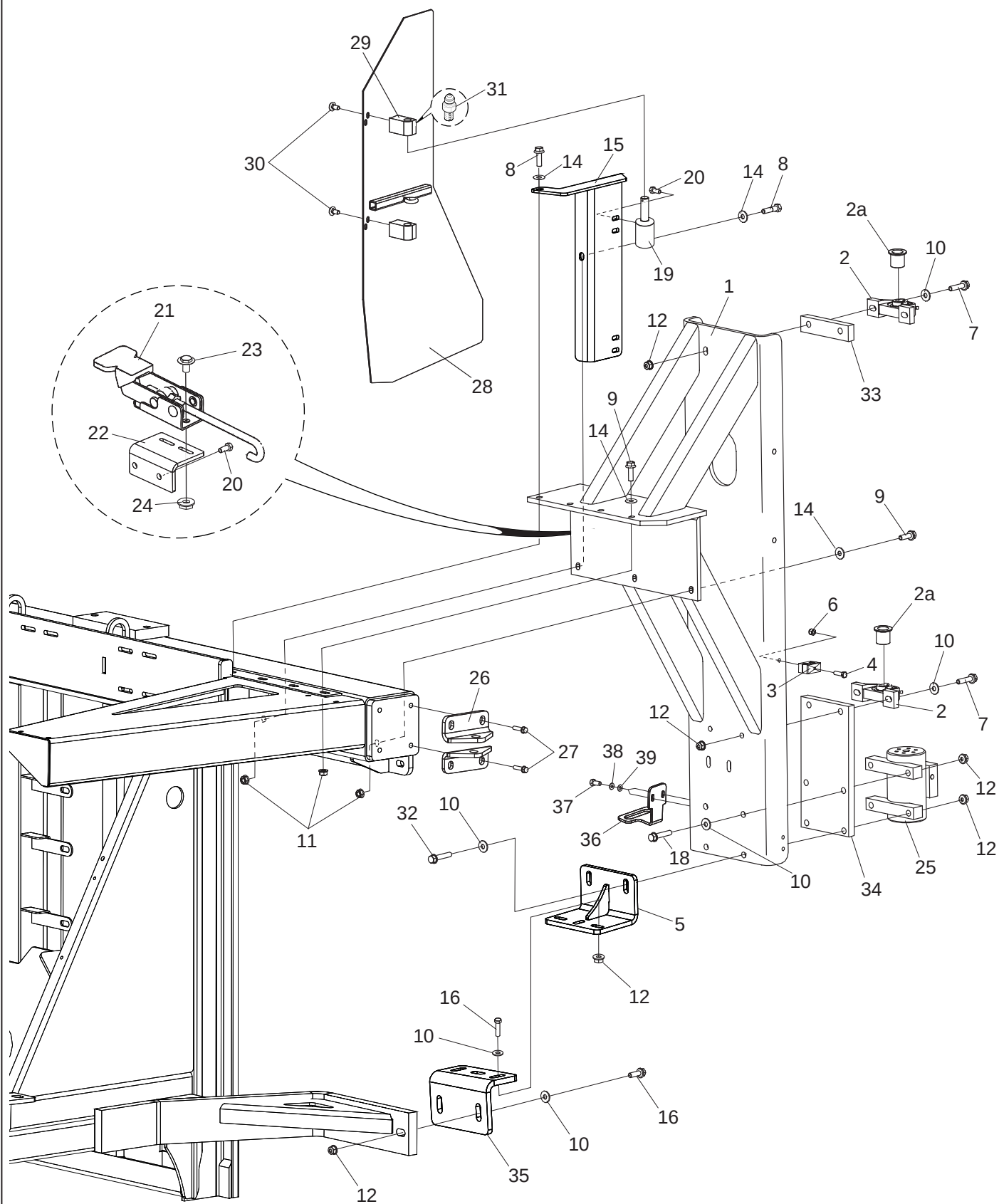
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
2	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
3	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
4a	4128968	1	PIVOT SHAFT WITOUT KEYWAY - NON CURRENT
4b	R100955	1	PIVOT SHAFT - CURRENT
5a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
5b	R300139	3	GRASPING TONG WELDMENT - CURRENT
6a	4135961	1	GRASPING TONG W/ NUT WELDMENT - NON CURRENT
6b	R300140	1	GRASPING TONG W/ NUT WELDMENT - CURRENT

Gripper Tong Assembly - Centre Front - R500131

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	38304-04	2	FLANGED BUSHING 0.75 I.D. x 0.875 O.D. x 0.50 LG.
2	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
3	4129315	2	PLATE,CYLINDER LINK
4	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
5	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
6	F940414	1	SPRING PIN 1/4 x 1.50 LG.
7a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
7b	R100955	1	PIVOT SHAFT - CURRENT
8a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
8b	R300139	3	GRASPING TONG WELDMENT - CURRENT
9a	4135961	1	GRASPING TONG W/ NUT WELDMENT - NON CURRENT
9b	R300140	1	GRASPING TONG W/ NUT WELDMENT - CURRENT

Gripper Tong Assembly - Centre Rear R500132

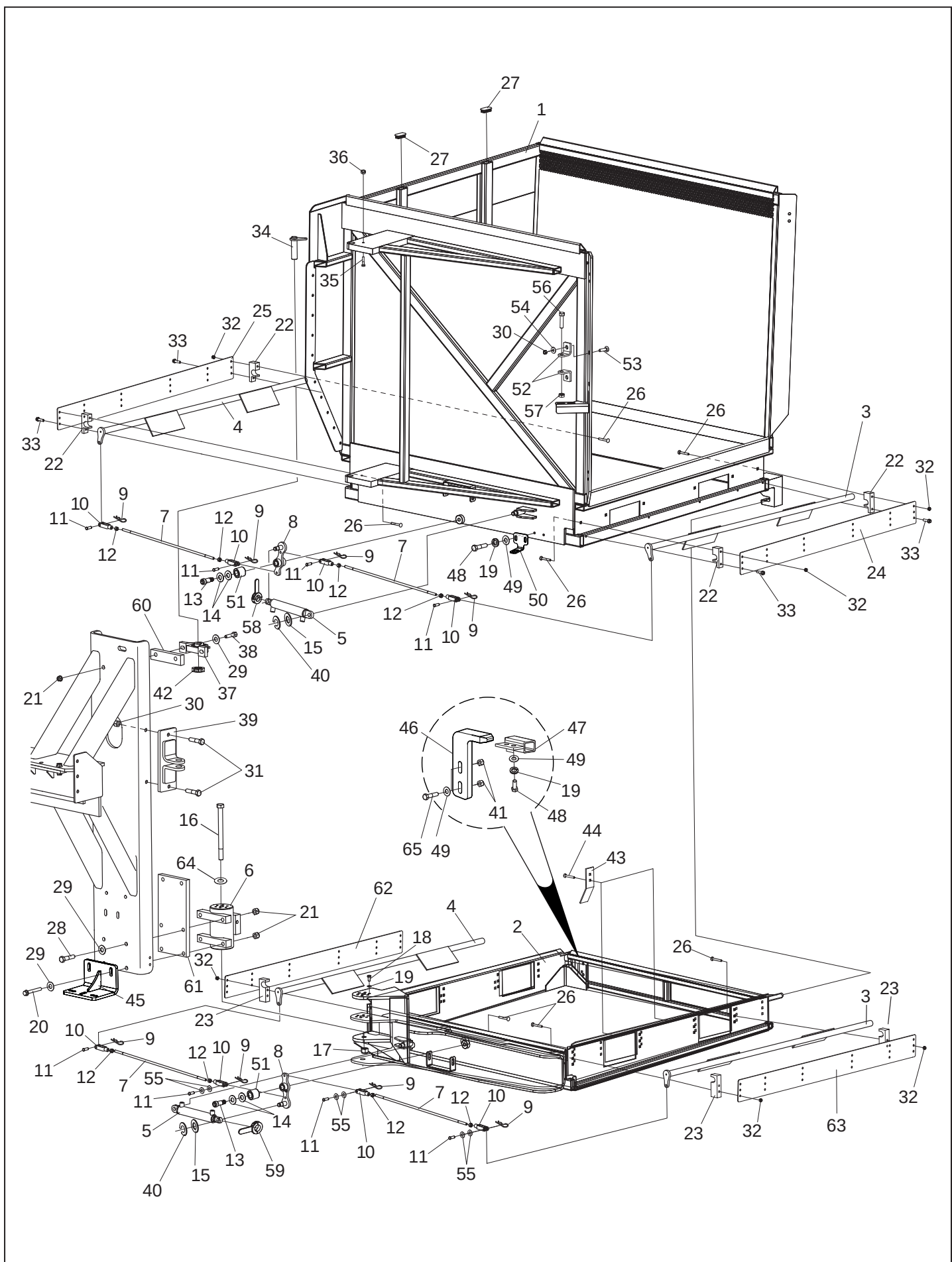
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	38304-04	2	FLANGED BUSHING 0.75 I.D. x 0.875 O.D. x 0.50 LG.
2	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
3	4129315	2	PLATE,CYLINDER LINK
4	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
5	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
6	F940414	1	SPRING PIN 1/4 x 1.50 LG.
7a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
7b	R100955	1	PIVOT SHAFT - CURRENT
8a	4135960	3	GRASPING TONG WELDMENT - NON CURRENT
8b	R300139	3	GRASPING TONG WELDMENT - CURRENT
9a	4135961	1	GRASPING TONG W/ NUT WELDMENT - NON CURRENT
9b	R300140	1	GRASPING TONG W/ NUT WELDMENT - CURRENT



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE PALLET DISPENSER MOUNTING			
1	R300036	Mount. Pallet Dispenser	1
2	R101690	Bushing Block - Current from Serial No. 278	2
	4133659	Bearing - Non Current up to Serial No. 277	2
2a	KB11630	Cylinder Flanged Bushing - Current from Serial No. 278	2
3	4135024	Double Hose Clamp. 5/8	1
4	F040532	Bolt 5/16 unc x 3 1/4 Gr.8	1
5	R300378	Upper Channel Support Bracket - Current from Serial No. 348	1
	R300348	Mount. Pallet Dispenser - Non Current from Serial No. 296 to 347	1
	R300052	Mount. Pallet Dispenser - Non Current up to Serial No. 295	1
6	F840500	Serr. Flange Nut 5/16 unc	1
7	F041026	Bolt 5/8-11 x 2 3/4 Gr.8 - Current from Serial No. 296	4
	F041022	Bolt 5/8 unc x 2 1/4 Gr.8 - Non Current up to Serial No. 295	4
8	F040820	Bolt 1/2 unc x 2 Gr.8	2
9	F040816	Bolt 1/2 unc x 1 3/4 Gr.8	5
10	F331008	Washer 5/8 sae	22
11	F210812	Locknut 1/2 unc. Stover Flanged	7
12	F211008	Locknut 5/8 unc. Flanged	11
13	F210608	Locknut 3/8 unc	2
14	F320800	Flatwasher 1/2	7
15	R100284	Piling Wall Extension Bracket	1
16	F0412100	Bolt 3/4 unc x 10 L.G.	1
17	F211208	Locknut 3/4 unc	1
18	F041034	Bolt 5/8 unc x 3 1/2 Gr.8 - Current from Serial No. 296	2
	F041030	Bolt 5/8 unc x 3 Gr.8 - Non Current up to Serial No. 295	4
19	4160145	Hinge Pin	2
20	F870606	Bolt 3/8-16 x 3/4 Gr.5 Flanged	6
21	4160218	Adjustable Draw Latch	1
22	4160147	Latch Bracket	1
23	F870406	Bolt 1/4-20 x 3/4 Gr.5 Flanged	2
24	F840400	Serr. Flange Nut 1/4 unc	2
25	4133657	Actuator	1
26	R101915	Bar Mount - Top	2
	R100916	Bar Mount - Bottom	2
27	F040814	Bolt 1/2 unc x 1 1/2 Gr.8	4
28	4160149	Piling Wall Extension	1
29	4160146	Hinge Block	2
30	F870406	Bolt 3/8 unc x 3/4 Flanged	4
31	KM11400	Grease Fitting	2
32	F041040	Bolt 5/8 unc x 4 Gr.8 - Current from Serial No. 296	2
	F041034	Bolt 5/8 unc x 3 1/2 Gr.8 - Non Current up to Serial No. 295	2
33	R101779	Upper Spacer Plate - Current from Serial No. 296	1
34	R101780	Lower Spacer Plate - Current from Serial No. 296	1
35	R100772	Mounting Brace Tractor Side - Current from Serial No. 348	1
36	R100340	Pallet Dispenser Sensor Away Bracket	1
37	F041040	Bolt 1/4 unc x 3/4 Gr.8	2
38	F310408	Lockwasher 1/4 Gr.8	2
39	F320408	Washer 1/4 Gr.8	2

NOTE

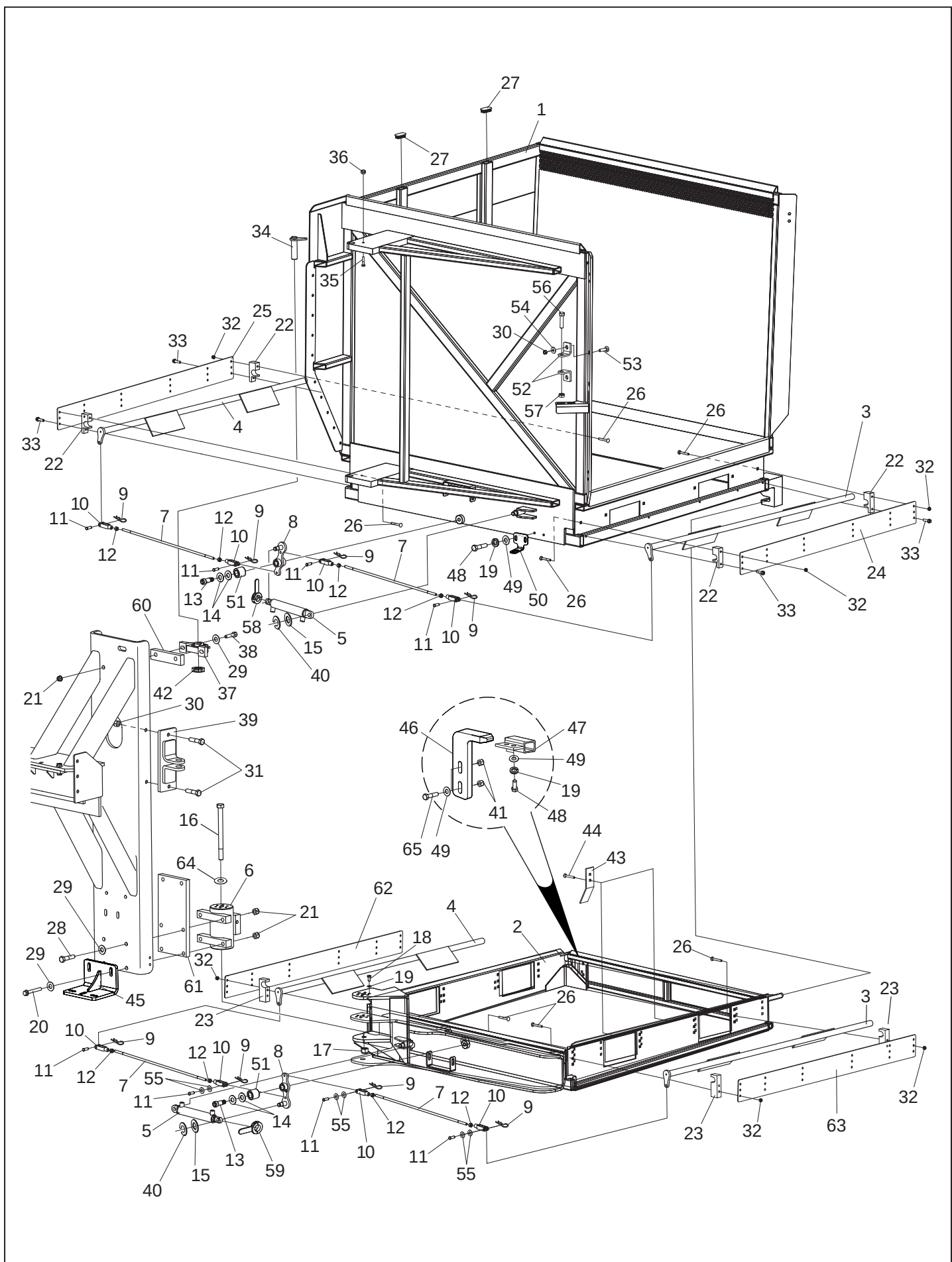
Items 2 & 2a available as
Bushing Block Assembly -
R500368.



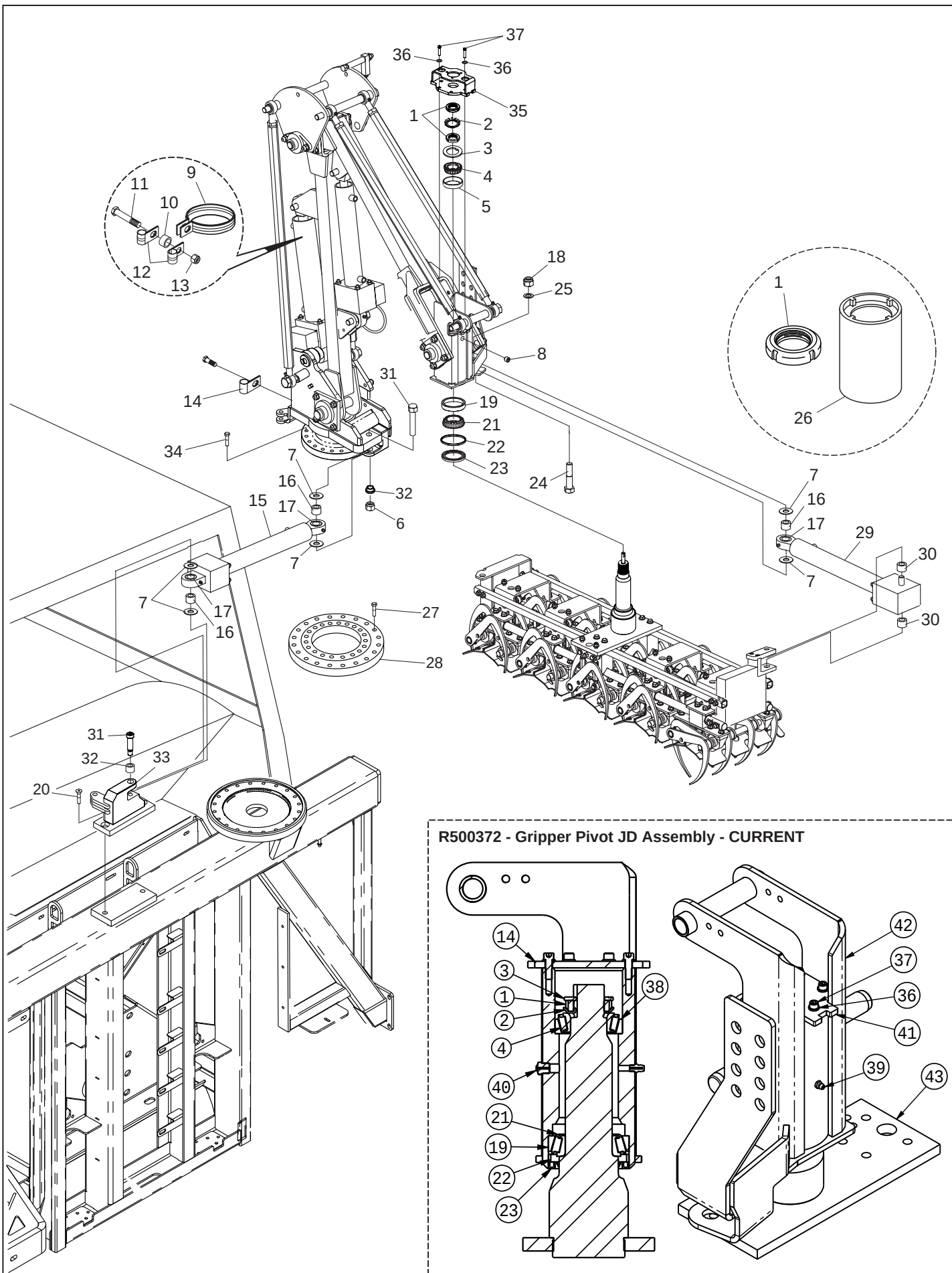
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE PALLET DISPENSER ASSEMBLY	
1	4160426	Pallet Dispenser Weldment	1
2	R300280	Bottom Weldment - Current	1
	4139140	Bottom Weldment - Obsolete	1
3	4138353	Rear Paddles	2
4	4138354	Front Paddles	2
5	4134118	Cylinder	2
6	4133657	Actuator	1
7	4133802	Link-Arm - Actuator	4
8	4136786	Bellcrank	2
9	F940116	Hitch Pin Clip	8
10	38020-01	Clevis Yoke	8
11	KX00612	Clevis Pin	8
12	F230658	Nut 3/8 unf	8
13	F501212	Shoulder Screw 3/4 x 1 1/4 Lg x 5/8 Thread	2
14	6416326	Washer 1.625 x 0.75 x 0.06	4
15	64163-73	Washer 5/8 Steel Shim Washer	4
16	F0412100	Bolt 3/4 unc x 10 Gr.8	1
17	F211208	Locknut 3/4 unc	1
18	R101673	Actuator Bolt	6
19	F310608	Lockwasher 3/8 Gr.8	10
20	F041040	Bolt 5/8 unc x 4 Gr.8 - Current from Serial No. 296	2
	F041034	Bolt 5/8 unc x 3 1/2 Gr.8 - Non Current up to Serial No. 295	2
21	F211008	Lock Flange Nut 5/8 unc Gr.5	8
22	4136042	Block Bar Support Upper	8
23	4136043	Block Bar Support Lower	8
24	4137551	S-Plate. Smooth Surface	1
25	4137552	Pallet Sod Guide Plate	1
26	F020516	Carriage Bolt 5/16 unc x 1 3/4	20
27	4134551	Caplugs 1 x 2	12
28	F041034	Bolt 5/8 unc x 3 1/2 Gr.8 - Current from Serial No. 296	2
	F041030	Bolt 5/8 unc x 3 Gr.8 - Non Current up to Serial No. 295	2
29	F331008	Washer 5/8 sae	8
30	F210808	Locknut 1/2 unc Gr.8	4
31	F040816	Bolt 1/2 unc x 1 3/4 Gr.8	2
32	64273-01	Nut. Low Profile	24
33	64152-65	Screw 5/16 x 1 1/4	8
34	4133793	Pivot Pin	2
35	F040416	Bolt 1/4 unc x 1 3/4 Gr.8	2
36	F210408	Locknut 1/4 unc	2
37	R500324	Bushing Block Assembly	2
38	F041026	Bolt 5/8-11 x 2 3/4 Gr.8 - Current from Serial No. 296	4
	F041022	Bolt 5/8 unc x 2 1/4 Gr.8 - Non Current up to Serial No. 295	4
39	4160121	Transport Bracket	1
40	64144-36	Snap Ring	4
41	F210600	Locknut 3/8 unc	2
42	4138481	Collar - Clamp	2
43	4139860	Pallet Slide Bracket	2
44	F020520	Carriage Bolt 5/16 unc x 2	4
45	R300378	Upper Channel Support Bracket - Current from Serial No. 348	1
	R300348	Mount. Pallet Dispenser - Non Current from Serial No. 296 to 347	1
	R300052	Mount. Pallet Dispenser - Non Current up to Serial No. 295	1

NOTE

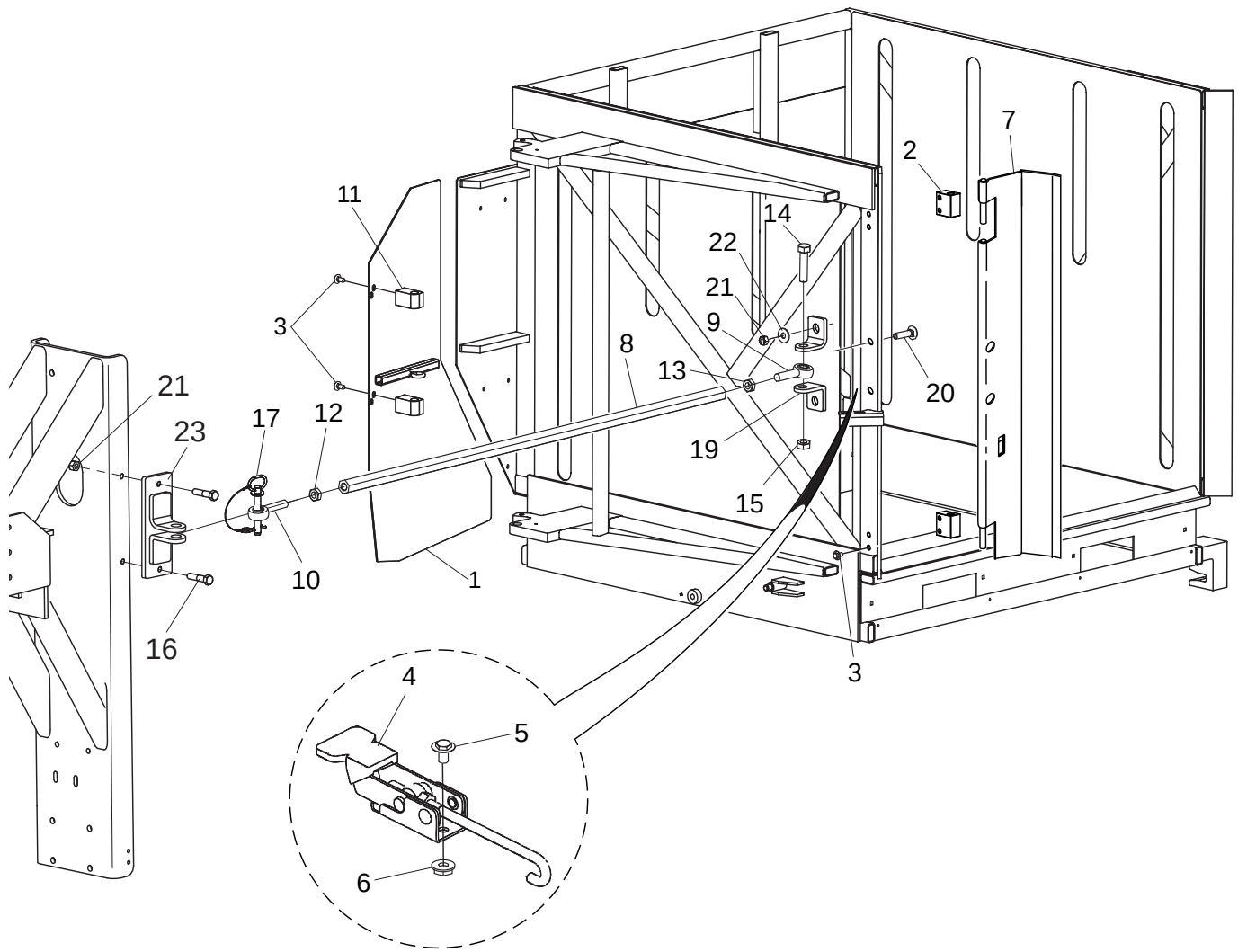
Items 7, 10 & 12 available as
Tie Rod Assembly - R500065.



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE PALLET DISPENSER ASSEMBLY	
46	R101685	Latch - Secondary	1
47	4160307	Receiver - Secondary Latch	1
48	F040606	Bolt 3/8 unc x 3/4 Gr.8	2
49	F320608	Flatwasher 3/8 Gr.8	4
50	4160311	Sensor Bracket. Pallet Dispenser	1
51	4136835	Bushing Bronze 3/4 Id	2
52	4160102	Holder Bracket	2
53	F020814	Carriage Bolt 1/2 unc x 1 1/2	2
54	F330808	Flat Washer 1/2 sae Gr.8	2
55	F320508	Flat Washer 5/16 Gr.8	6
56	F041226	Bolt 3/4-10 x 2 3/4	1
57	F211208	Locknut 3/4 unc Gr.8	1
58	A300208	Sensor Flag	1
59	R300224	Sensor Flag	1
60	R101779	Upper Spacer Plate - Current from Serial No. 296	1
61	R101780	Lower Spacer Plate - Current from Serial No. 296	1
62	R101679	RL Pallet Sod Guide Plate Front	1
63	R101678	RL Pallet Sod Guide Plate Rear	1
64	F331208	Flat Washer 3/4 sae Gr.8	1
65	F040612	Bolt 3/8 x 1 1/4 Gr.8	2



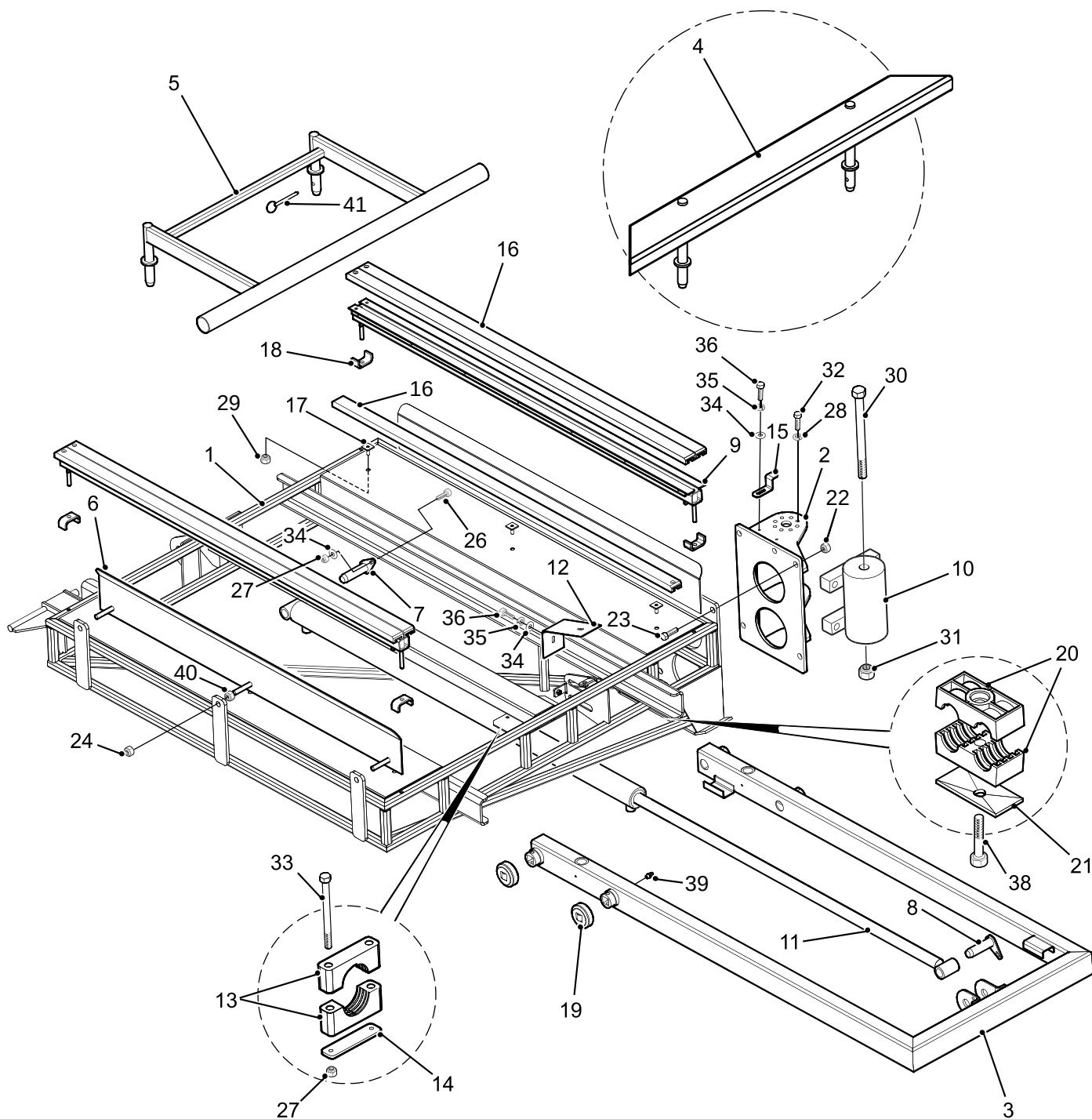
ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ROBOTIC ARM MOUNTING			
1	4160106	Locknut	2
2	4160107	Lockwasher	1
3	4160108	Tongued Washer	1
4	B4511	Bearing - Cone	1
5	B4018	Bearing - Cup - Non Current	1
6	F221000	Jamnut 5/8 unc	1
7	4134564	Thrust Bearing	6
8	F141004	Set Screw 5/8 x 1/2	1
9	KM60027	Hose Clamp #40	1
10	218307103	Spacer	1
11	F870414	Bolt 1/4 unc x 1 1/4 Flanged	1
12	KM60027	Hose Clamp #5	2
13	F840400	Flanged Nut 1/4 in. Serrated	1
14	KH68007	Clamp 3/4 in. Clip	3
15	R500013	Cylinder. 2 in. Bore 1 in Rod	1
	KH70115	Seal Kit.	1
16	4133645	Inner Sleeve	3
17	KB51610	Needle Bearing 1 in. ID	2
18	F211258	Locknut 3/4 unc	1
19	B4017	Bearing - Cup	1
20	F121216	Bolt 3/4 unc x 1 3/4 Soc. Hd.	2
21	B4514	Bearing - Cone	1
22	4160109	Spacer	1
23	4160123	Seal	1
24	F201234	Bolt 3/4 unc x 3 1/2 Gr.9	1
25	F331208	Washer 3/4	2
26	4160624	Spindle Nut Socket	A/R
27	F080824	Bolt 1/2 unf x 2 1/2 Gr.8	20
28	KB50004	Slewing Ring	1
	KX90034	Grease Fitting M8 x 1.0	1
29	R500012	Cylinder. 1 1/2 in. Bore 1 in. Rod	1
	KH70114	Repair Kit	1
30	KB11216	Bushing	2
31	F501230	Bolt 3/4 x 3. Shoulder	2
32	KB12815	Bushing	2
33	R300037	Turn Cylinder Mount	1
34	F040836	Bolt 1/2 unc x 2 3/4 Gr.8	20
35	4161997	Rotary Encoder Mount	1
36	F310408	Lockwasher 1/4 unc Gr.8	6
37	F490406	Soc. Hd. Cap Screw 1/4 unf x 3/4	6
38	KB23014	Tapered Roller Bearing 1.375 (Cup) - Current	1
39	KM11400	Straight Grease Fitting	1
40	KM11496	Grease Pressure Relief Fitting	1
41	R101954	Mount Cover Plate JD	1
42	R300065	Pivot Head Weldment JD	1
43	R300402	JD Head Plate Weldment	1



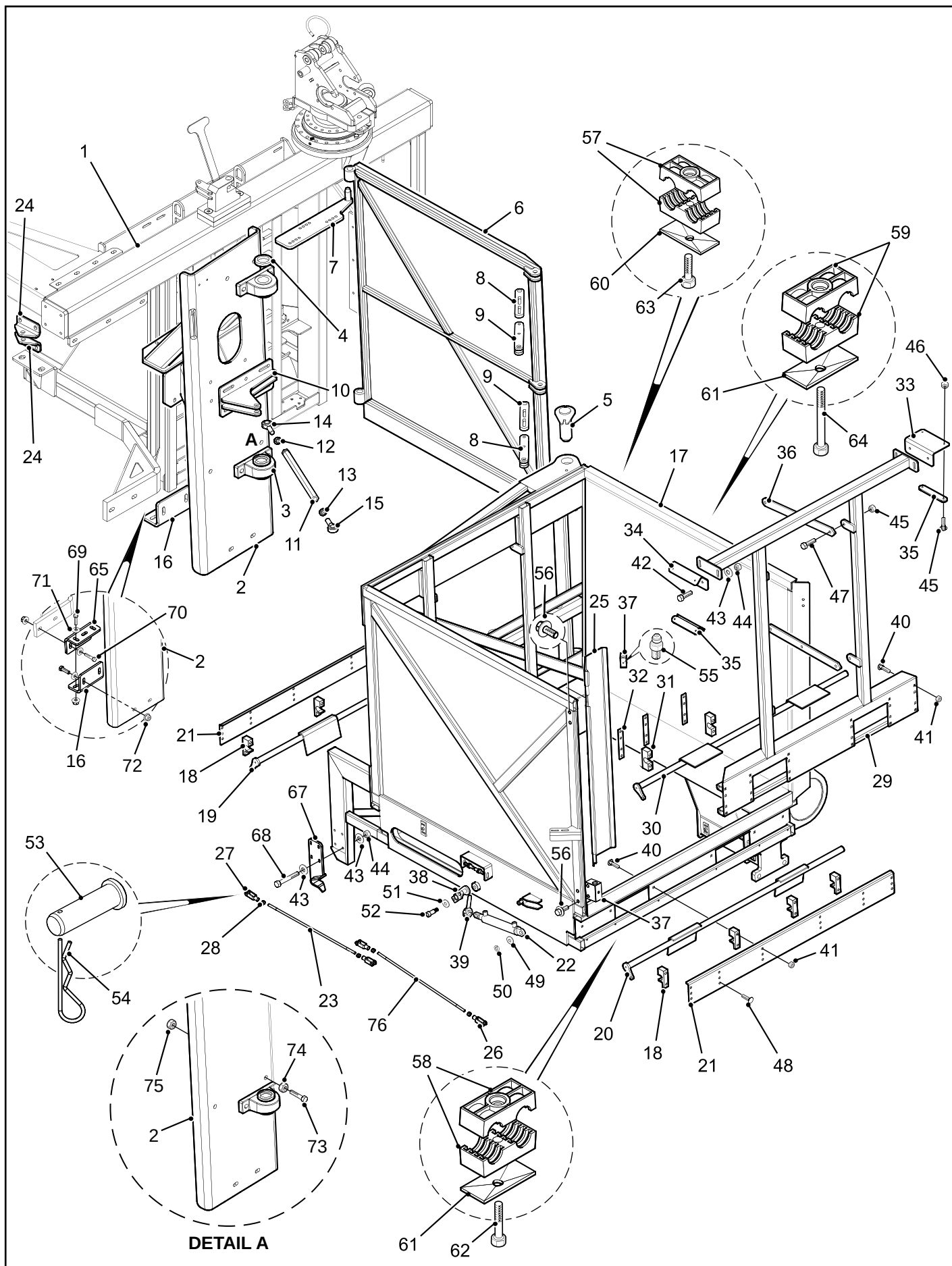
ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE PILING WALL			
1	4160149	Piling Wall Extension	1
2	4160316	Hinge Block	2
3	F870606	Bolt 3/8 unc x 3/4 Flanged	12
4	4160218	Adjustable Draw Latch	1
5	F870406	Bolt 1/4 unc x 3/4 Flanged	2
6	F840400	Nut 1/4 unc Flanged	2
7	4160315	Piling Wall Guide	1
8	4160111	Tie Rod 37 1/2 in.	1
9	CM00121	Rod End - R.H. 3/4 in.	1
10	CM00122	Rod End - L.H. 3/4 in.	1
11	4160146	Hinge Block	2
12	F231260	Jam Nut 3/4 unf L.H.	1
13	F231250	Jam Nut 3/4 unf R.H.	1
14	F040226	Bolt 3/4-10 x 2 3/4	1
15	F211208	Locknut 3/4 unc Gr.8	1
16	F040816	Bolt 1/2 unc x 1 3/4 Gr.8	2
17	KX12044	Clevis Pin w/Laynard & Cotter Pin	1
19	4160102	Holding Bracket	2
20	F020814	Carriage Bolt 1/2 unc x 1 1/2	2
21	F210808	Locknut 1/2 unc Gr.8	4
22	F330808	Flatwasher 1/2 sae Gr.8	2
23	4160121	Transport Bracket	1

NOTE

Items 8, 10 & 11 available
as Holding Bar Assembly -
R500065.



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE DOUBLE SIDED PALLET - ROTATOR ASSEMBLY NON CURRENT, AS NOTED			
1	R300088	Pallet Rotator - Non Current up to Serial # 314	1
2	R300104	Rotary Actuator Mount - Non Current up to Serial # 314	1
3	R300089	Pallet Pusher Frame	1
4	R300090	Pallet Push Bar - Non Current up to Serial # 314	1
	R300166	Pallet Push Bar (Australia Only) - Non Current up to Serial # 454	1
5	R300091	Pallet Push Bar - Non Current up to Serial # 454	1
6	R300098	Pallet Guide	2
7	R300096	Pivot Pin - 3.625 Lg.	1
8	GR30571	Pivot Pin - 3.00 Lg.	1
9	R300106	Slider Holder - Non Current up to Serial # 454	2
10	KH31009	Rotary Actuator	1
11	KH31008	Cylinder	1
12	R100868	Proximity Cover	1
13	KH64020	Clamps	2
14	KH63010	Cover Plate	1
15	R100763	Rotary Proximity Target	2
16	R100661	Euro Pallet Slider - Non Current up to Serial # 454	6
17	H301041	'T' Bolt - Non Current up to Serial # 454	6
18	R100800	Slider Holder Spacer - Non Current up to Serial # 454	4
19	KB10010	Comination Bearing Roller	4
20	KH65006	Clamps	2
21	KH63004	Cover Plate	1
22	F211000	Locknut 5/8 unc	4
23	F041016	Bolt 5/8 x 1 3/4 Gr.8	4
24	F210808	Locknut 1/2-13	6
26	F040510	Bolt 5/16 unc x 1	2
27	F210508	Locknut 5/16 unc	4
28	F310600	Lockwasher 3/8	8
29	F840600	Nut 3/8 unc - Serrated Flange	10
30	F0416110	Bolt 1 unc x 11 Gr.8	1
31	F211600	Locknut 1 unc	1
32	R101673	Bolt 3/8 unc x 1 1/4 Gr.8	8
33	F040442	Bolt 1/4 unc x 4 1/4 Gr.8	2
34	F320500	Flatwasher 5/16	6
35	F310500	Lockwasher 5/16	4
36	F040506	Bolt 5/16 unc x 3/4 Gr.8	4
38	F040516	Bolt 5/16 unc x 1 3/4	1
39	KX90032	Grease Fitting M6-1.0	4
40	F230800	Nut 1/2 unc	6
41	KX07042	T-Handle Pin - 1/4 x 2	2
42	F550406	Bolt 1/4 unc x 3/4 Flat Hd.	4



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE	
		DOUBLE SIDED PALLET - BOX & PILING WALL	
		NON CURRENT, AS NOTED	
1	R300318	Main Beam - Current from Serial No. 295	1
1	R300002	Main Beam - Non Current up to Serial No. 294	1
2	R300319	Double Sided Pallet Dispenser Mount - Current from Serial No. 295	1
	R300093	Double Sided Pallet Dispenser Mount - Non Current up to Serial No. 294	1
3	KB30020	Pillow Block Bearing	2
4	R100694	Bearing Spacer	2
5	R300094	Main Pin - 2 in.	2
6	R300099	Piling Wall - Non Current up to Serial No. 454	1
7	R300100	Piling Wall Hinge	2
8	R100711	Wall Strut 'A'	2
9	R300102	Wall Strut 'B'	2
10	R300346	Tie Rod Transport Mount - Current from Serial No. 295	1
	R300103	Tie Rod Transport Mount - Non Current up to Serial No. 294	1
11	R101837	Holding Bar - Current from Serial No. 295	1
	R100722	Tie Rod - Non Current up to Serial No. 294	1
12	F221250	Nut 3/4 unf	1
13	F221260	Nut 3/4 unf L.H.	1
14	CM00121	Rod End - 3/4 unf Male R.H.	1
15	CM00122	Rod End - 3/4 unf Male L.H.	1
16	R100773	Mounting Brace - Box Side	1
17	R300085	Double Sided Pallet Box - Non Current up to Serial No. 294	1
18	4136042	Upper Block Bar Support	8
19	4138354	Dispenser Paddles - Non Current up to Serial No. 454	1
20	R300110	Dispenser Paddles - Non Current up to Serial No. 454	1
21	4137551	Pallet Sod Guide Plate	2
22	4134118	Cylinder	1
23	R100797	Tie Rod - 21.75 in. (46 in. Pallet)	1
	R100796	Tie Rod - 13.75 in. (1.0 M Pallet)	1
	R100795	Tie Rod - 5.5 in. (0.8 M Pallet)	1
24	R100323	Bar Mount	2
25	4160315	Pallet Guide	1
26	38020-01	Clevis Yoke	6
27	R100798	Bent Clevis Yoke	2
28	F230658	Nut 3/8 unf	8
29	R300092	False Wall - Non Current up to Serial No. 294	1
	R300092-MOD	False Wall (Australia Only) - Non Current up to Serial No. 294	1
30	R300109	False Wall Flapper - Non Current up to Serial No. 454	1
31	R100742	False Wall Flap Bar Support	4
32	R100687	Strap Bar	4
33	R100775	'V' Slider Mount - Non Current up to Serial No. 294	1
34	R300111	Flat Slider Mount - Non Current up to Serial No. 294	1
35	R100786	False Wall Slider Bearing - Non Current up to Serial No. 294	3
36	R100724	False Wall Link - Non Current up to Serial No. 294	4
37	4160316	Hinge Block	2
38	4136786	Bellcrank	1
39	A300208	Proximity Target	1
40	F020516	Carriage Bolt 5/16 unc x 1 3/4	24
41	64273-01	Nut 5/16 unc - Low Profile	24
42	F040612	Bolt 3/8 unc x 1 1/4 Gr.8	4
43	F320600	Flatwasher 3/8	12

NOTE
Current Item 11 & Items 12 - 15
are available as Holding Bar
Assembly - R500356.