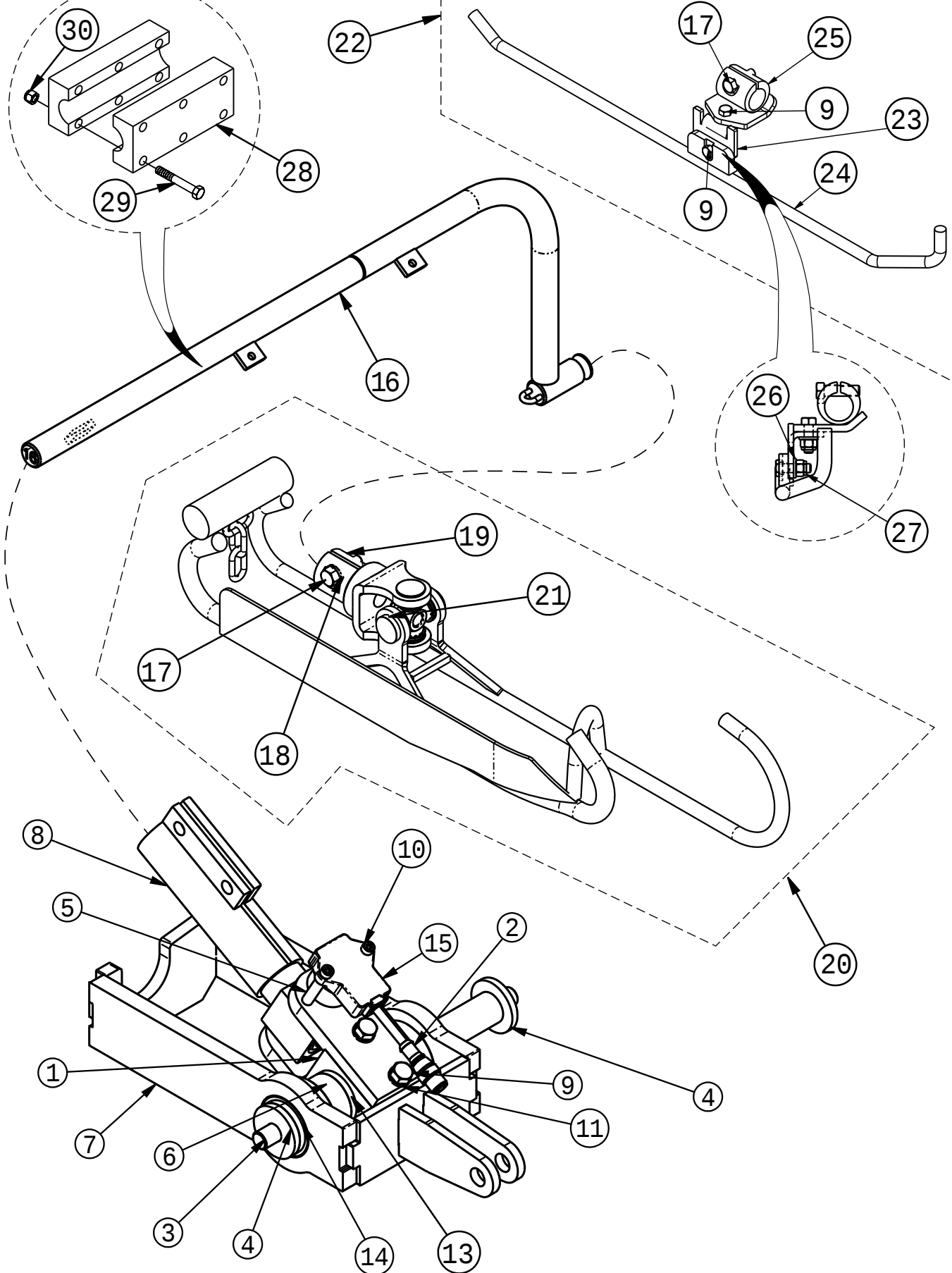


B500247 - Optional Single Runner Ski Assembly



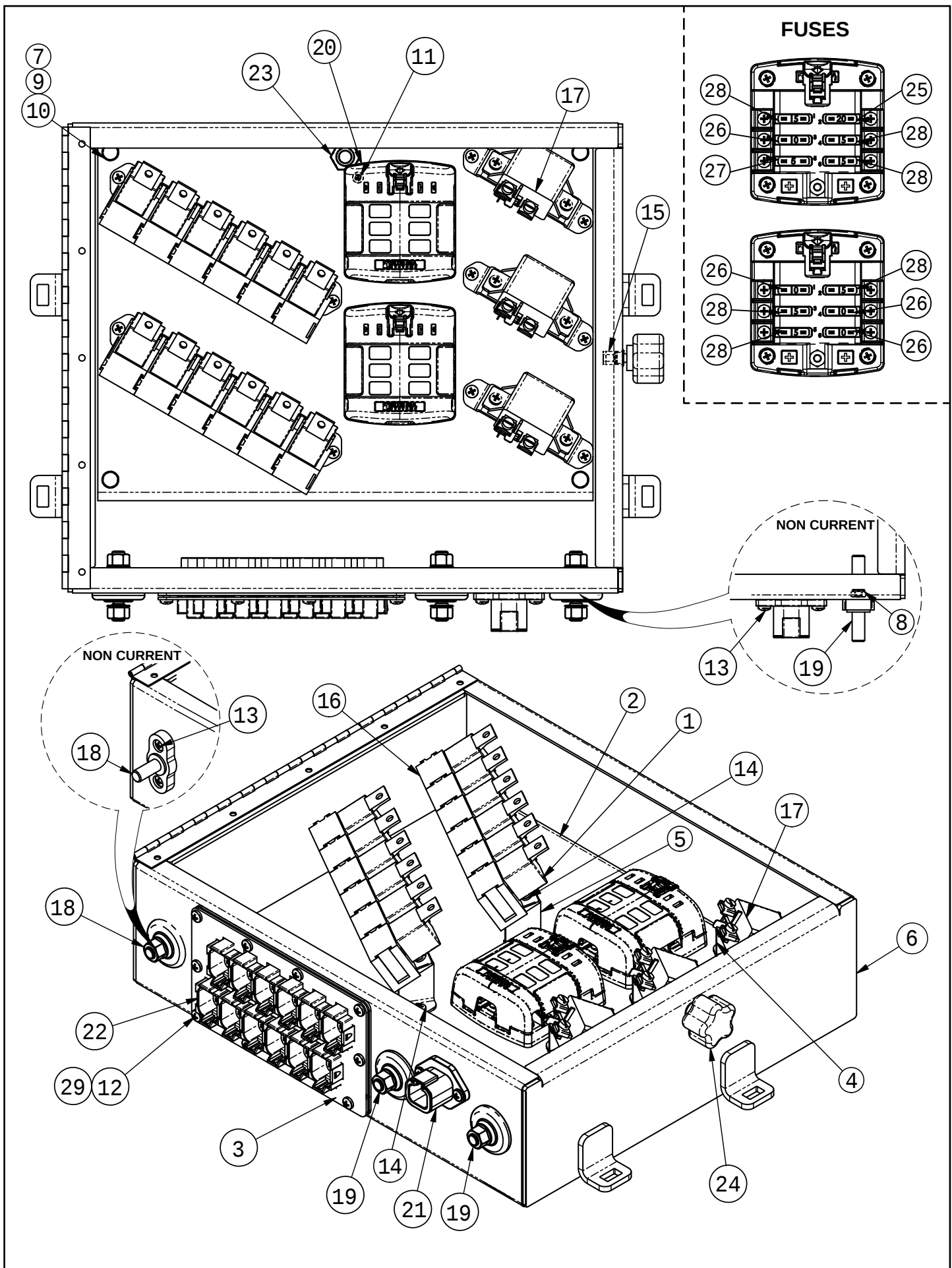
Brouwer 4000 Sod Harvester
Auto-Steer Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100386	1	AUTO-STEER LINKAGE BOTTOM PIVOT
2	B100387	1	AUTO-STEER PIVOT TOP CAP
3	B100397	1	AUTO-STEER PIVOT PIN
4	B100450	2	WASHER 1.50 x 0.50 x 0.188
5	B100619	2	AUTO-STEER SENSOR SPACER
6	B101101	1	AUTO-STEER PIVOT SPACER
7	B300053	1	AUTO-STEER ARM LIFT LINKAGE
8	B300054	1	AUTO-STEER SKI ARM CLAMP AND PIVOT
9	F040506	2	BOLT - 5/16 UNC x 3/4 Gr 8
10	F180216	2	HEX SOCKET - 10-24 x 1.75 LG.
11	F310500	2	LOCK WASHER - 5/16
12	F381014	4	SHIM WASHER - 1.50 x 1.00 x 0.020 THK.
13	KB11607	2	IGUS BUSHING FLANGED 0.75 x 0.875 x 0.625 LG.
14	KB11615	4	IGUS BUSHING FLANGED 1.00 x 1.25 x 0.75
15	KE10314	1	TURCK ROTARY SENSOR PROGRAMMABLE
16	B300312	1	SKI ARM WLDMT. 45 IN. - CURRENT FROM SN. 92
	B300172	1	SKI ARM 16 IN. - NON CURRENT UP TO SN. 91
	B300173	1	SKI ARM 24 IN. - NON CURRENT UP TO SN. 91
17	F040612	1	BOLT - 3/8 UNC x 1 1/4 GR.8
18	F310600	1	LOCK WASHER - 3/8
19	H310039	1	AUTO-STEER SPLIT CLAMP YOKE WELDMENT
20	H310345	1	AUTO-STEER SAND SHOE W/A
	H310061	1	AUTO-STEER STD SKI W/A (OPTIONAL)
21	KD91103	1	U-JOINT KIT
22	B500247	1	SINGLE RUNNER SKI ASSEMBLY (OPTIONAL)
23	B101558	1	AUTO-STEER PIVOT PLATE
24	B300266	1	AUTO-STEER SKI RUNNER WELDMENT
25	B300267	1	SKI ATTACHMENT
26	F210500	2	NUT-5/16 UNC NYLOC
27	F330500	2	5/16 SAE WASHER
28	M100157	2	COUPLING
29	F040624	4	HEX BOLT 3/8-16 x 2 1/2 LG
30	F210608	4	NUT 3/8 UNC NYLOC Gr.8

SECTION 5 ELECTRICAL

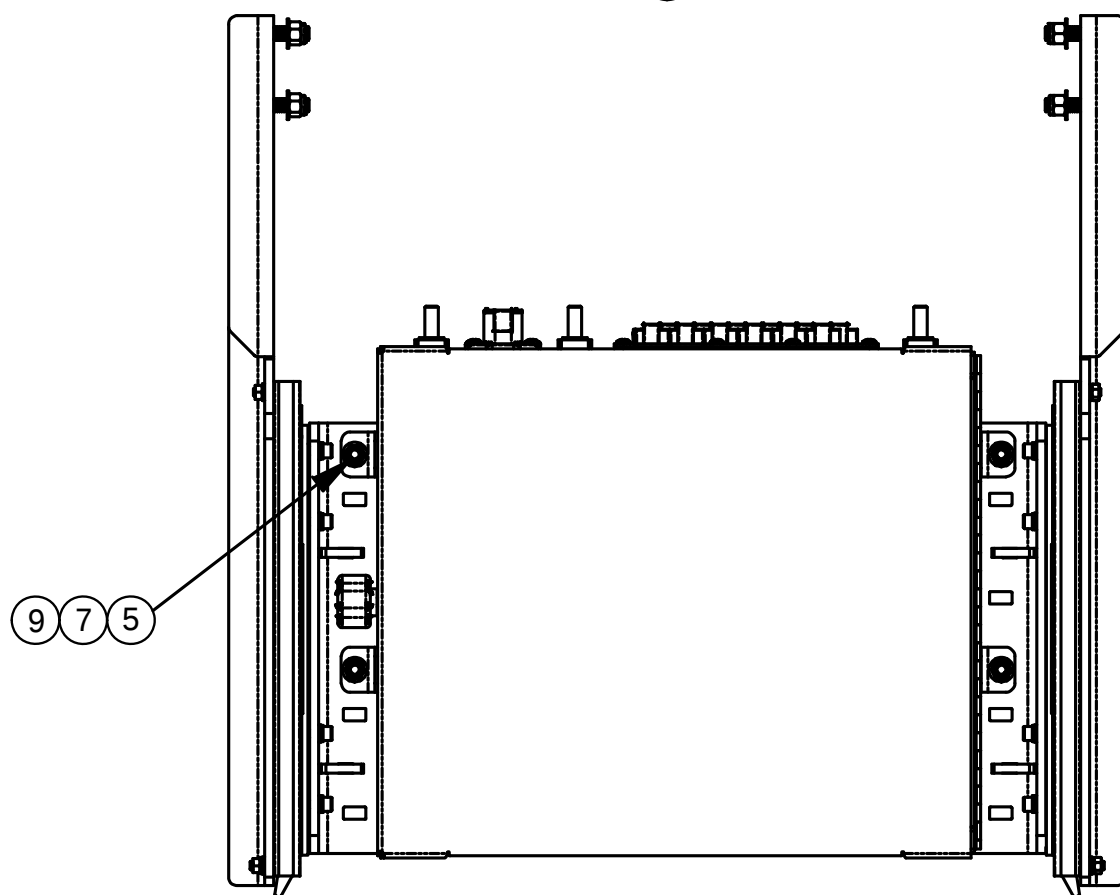
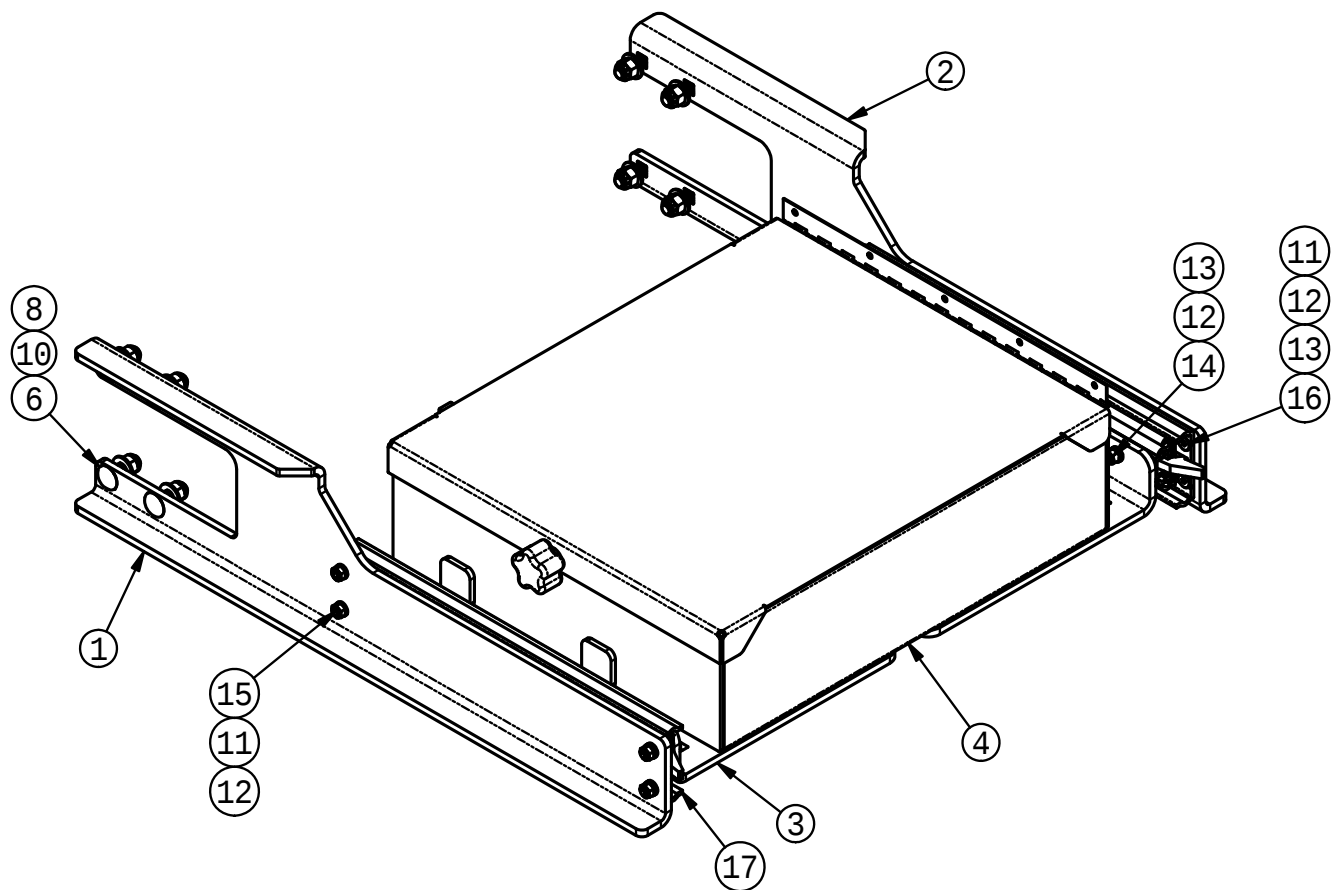
Wiring Diagram	5-01
Under Cab Electrical Panel Assembly - CURRENT from Serial No. 37	5-03
Under Cab Electrical Box Assembly - CURRENT from Serial No. 37	5-05
Main Electrical Box & Mutiports 7-10 & 16	5-07
Main Electrical Box & Mutiports 4 & 13-15	5-09
Main Electrical Box & Mutiports 5, 6 & 11	5-11
4000 Electrical Diagram	5-13
Joystick Console Assembly	5-15
Main Electrical Control Box Assembly	5-17
Sensor Identification	5-19

ITEM NO.	PART NO.	DESCRIPTION	QTY
Brouwer 4000 Sod Harvester Control Console Wiring for MK3			
1	KE70034	Keypad - 8 Button Canbus	1
2	KE70035	Keypad - 20 Button Canbus	1
3	KE30042	DEUTSCH DTM PLUG - 6	1
4	KE00024	JOYSTICK HANDLE -L SERIES & BASE	1
5	KE10230	POTENTIOMETER - 1K OHM	3
6	KE80042	THROTTLE - FINGER SWITCH	1
7	KE80044	FOOT PEDAL	1
8	KE30050	DEUTSCH DT PLUG - 12	1
9	KE30025	WEDGE - 12 PIN DT PLUG	1
Brouwer 4000 Sod Harvester Overhead Switches, Right Pillar Display & Fuel Guage Assembly MK3			
10	B300125	Screen Mounting Bracket	1
11	B101036	Monting Plate	1
12	KE80024	SWITCH - DPDT (MOM-ON - OFF - MOM-ON)	1
13	KE80008	SWITCH - ROCKER DOUBLE POLE (PARK BRAKE)	1
14	KE80009	SWITCH - ROCKER SINGLE POLE	2
15	KE70025	FUEL GAUGE	1
16	KE70026	FUEL GAUGE BEZEL	1
17	KE70023	ENGINE CONTROL	1
18	KE70016	LCD SCREEN	1
19	KE10161	BUZZER - OPERATOR ALERT	1
20	KE10162	BUZZER - VOLUME CONTROL	1
21	A101657	BEEPER BRACKET	1
22	KE75002	RAM ARM	1
23	KE75004	SMALL BASE RAM	1
24	KE75005	VESA BASE RAM	1



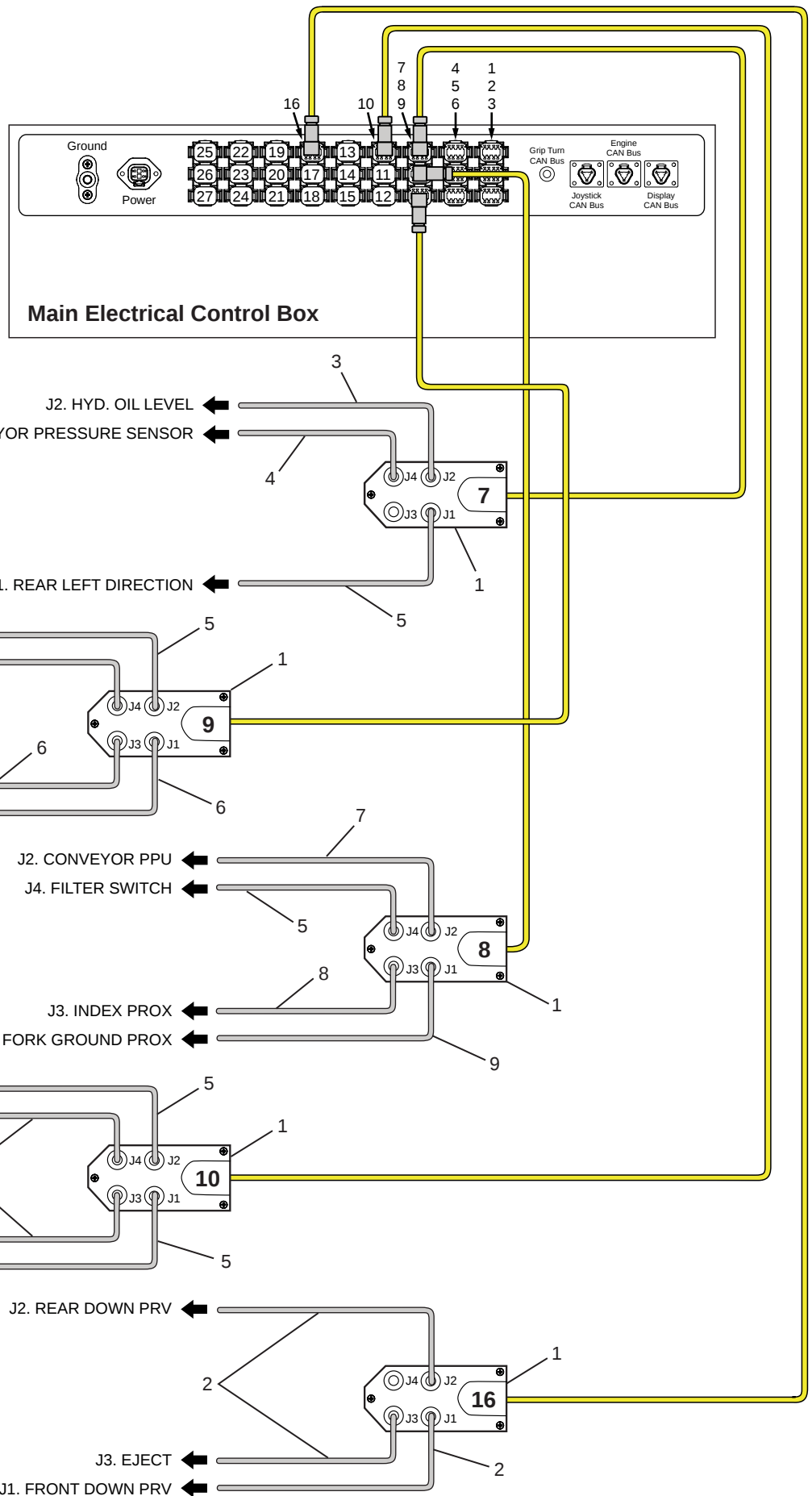
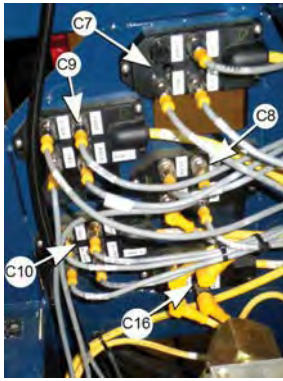
Brouwer 4000 Sod Harvester
Under Cab Electrical Panel Assembly - CURRENT from Serial No. 37

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	35-067	12	RELAY - MINI ISO SPDT FORM C
2	B101241	1	INNER PANEL ELECTRICAL BOX
3	B101308	2	CONNECTOR KEEPER PLATE UNDER CAB
4	B101455	3	RELAY ANGLE MOUNT LARGE
5	B101456	2	RELAY ANGLE MOUNT SMALL
6	B300213	1	ELECTRICAL PANEL UNDER CAB
7	F040404	4	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8
8	F210200	18	HEX LOCK NUT - 10-24 UNC - NON CURRENT
9	F310400	4	WASHER - 1/4 LOCK
10	F330400	4	1/4 SAE FLAT WASHER
11	F540104	8	PAN HD PHIL - #8-32 x 0.50 LG.
12	F540204	10	PAN HD PHIL 10-24 x 0.50 LG. - NON CURRENT
	F570206	12	PAN HD PHIL 10-32 x 0.50 LG. ST STL - CURRENT
13	F540206	8	BOLT - 10 UNC x 3/4 PAN HD PHIL - NON CURRENT
14	F570204	20	PAN HD PHIL 10-32 x 0.50 LG. ST STL
15	F850400	1	RIVET NUT - 1/4 UNC (25/64 DRILL)
16	KE10194	12	HEAVY DUTY RELAY BASE
17	KE10262	3	RELAY 75 AMP
18	KE10284	1	JUNCTION BLOCK STUD FEED THROUGH - BLACK - NON CURRENT
	KE10423	1	FEED THROUGH STUD - BLACK - 250 A - CURRENT
19	KE10285	2	JUNCTION BLOCK STUD FEED THROUGH - RED - NON CURRENT
	KE10424	1	FEED THROUGH STUD - RED - 250 A - CURRENT
20	KE10307	2	FUSE BLOCK - 6 CIRCUITS
21	KE30074	1	DEUTSCH DTP 4 PIN RECEPTACLE FLANGE
22	KE30084	12	DEUTSCH SOCKET - 8 PIN
23	KH99005	1	SELF DRAIN AND BREATHER VENT
24	KM99080	1	SOFT TOUCH KNOB W/ 1/4 MALE STUD
25	KE10061	1	FUSE - 20 AMP ATO
26	KE10062	4	FUSE - 10 AMP ATO
27	KE10085	1	FUSE - 5 AMP ATO
28	KE10086	6	FUSE - 15 AMP ATO
29	F850250	12	RIVET NUT 10-32 UNF (19/64 DRILL) - CURRENT

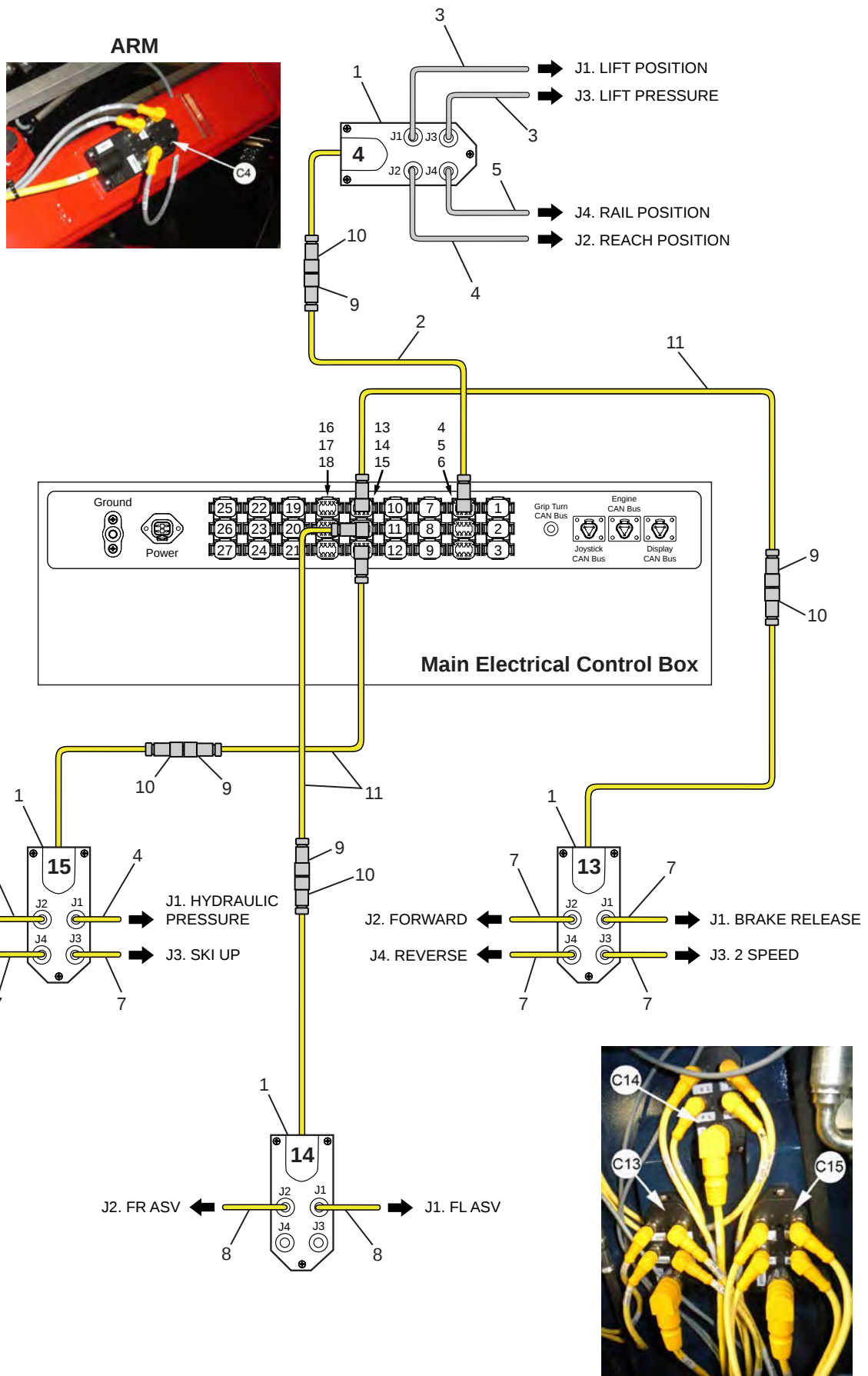


Brouwer 4000 Sod Harvester
Under Cab Electrical Box Assembly - CURRENT from Serial No. 37

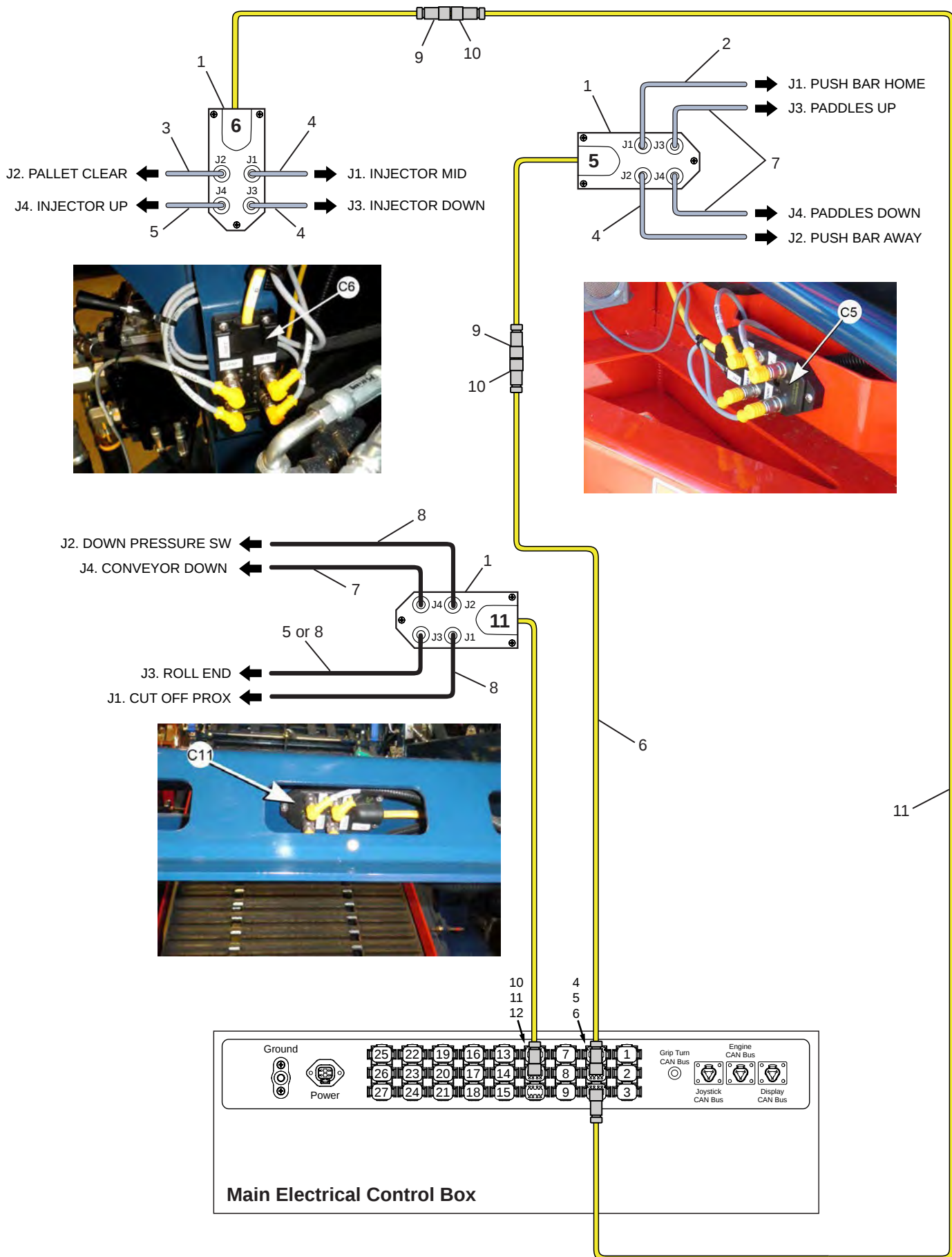
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101315	1	DRAWER SLIDE SIDE PLATE FRONT
2	B101316	1	DRAWER SLIDE SIDE PLATE REAR
3	B300214	1	ELECTRICAL PANEL DRAWER WELDMENT
4	B500200	1	ELECTRICAL PANEL ASSEMBLY
5	F020510	4	5/16-18 X 1 LG CARRAGE BOLT
6	F020612	8	CARRIAGE BOLT - 3/8 UNC x 1 1/4
7	F210500	4	NUT-5/16 UNC NYLOC
8	F210600	8	HEX LOCK NUT - 3/8 -16 UNC
9	F330500	4	5/16 SAE WASHER
10	F330600	8	FLAT WASHER SAE 3/8
11	G300600	8	HEX NUT - M6 x 1.0 ST STL
12	G310600	16	WASHER - M6 LOCK ZN PLATE
13	G320600	12	FLAT WASHER - M6 ZN PLATE
14	G6206018	8	SOC HD M6 x 1.00 x 18 mm LG. ST STL
15	G6206025	4	SOC HD M6 x 1.00 x 25 mm LG. ST STL
16	G7306020	4	FLAT HEAD HEX SOCKET M6 x 1.0 x 20 LG. ST STL
17	KM00015	2	SLIDE - LOCK OPEN AND CLOSED 21.25 EXTENSION



ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 7-10 & 16	
1	KE60190	Multiport & Cable	5
2	KE60160	Cable	5
3	KE60187	Cable	1
4	KE60149	Cable	2
5	KE60175	Cable	7
6	KE60184	Cable	2
7	KE60126	Cable - Current from Serial # 103	1
	KE60128	Cable - Non Current up to Serial # 102	1
8	KE60127	Cable	1
9	KE60124	Cable	1



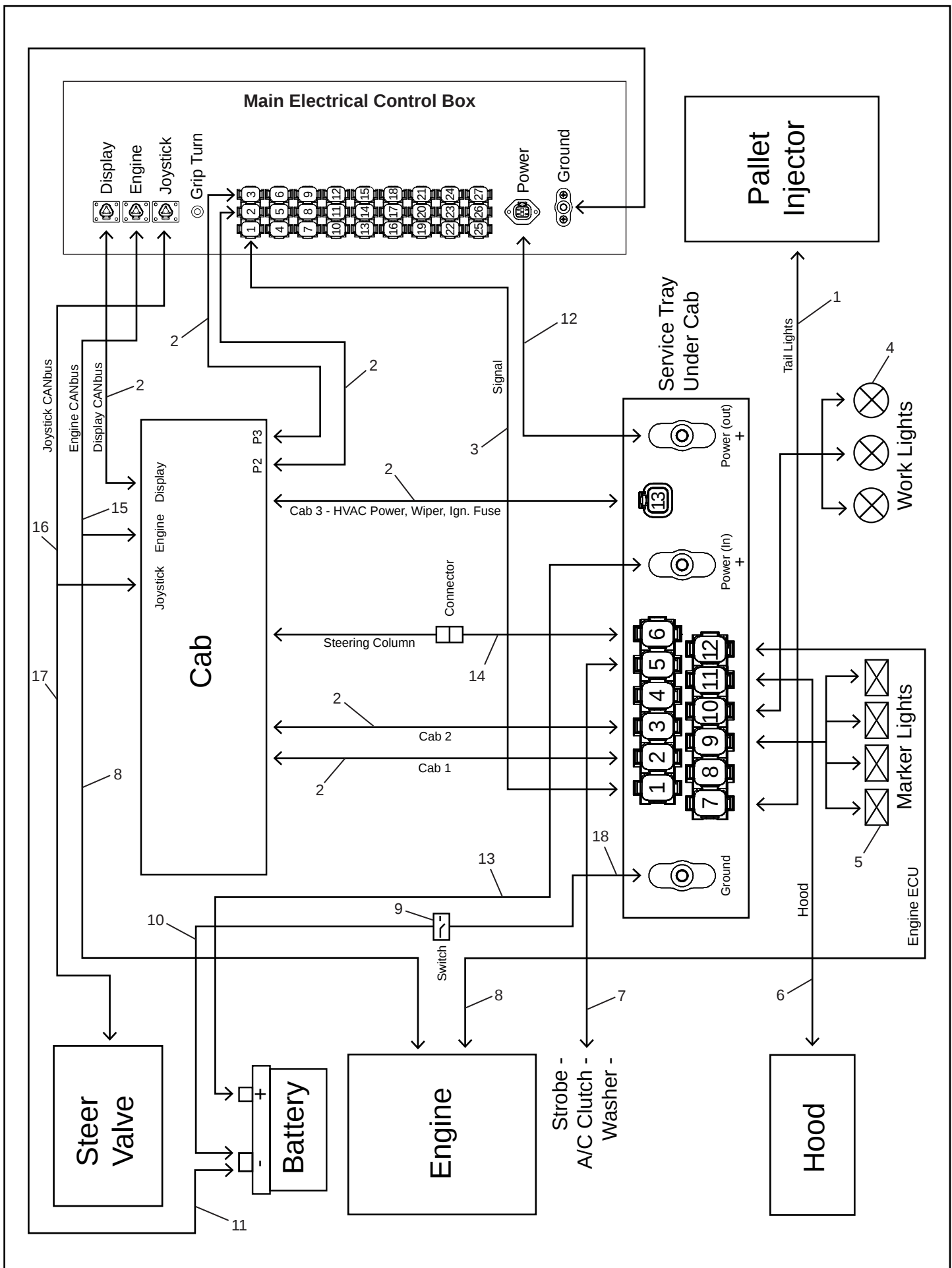
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 4 & 13-15	
1	KE60189	Multiport & Cable	4
2	B500321	Cable Extension	1
3	KE60118	Cable	2
4	KE60117	Cable	2
5	KE60131	Cable	1
6	KE60107	Cable	1
7	A500126	Cable	6
8	B500170	Cable	2
9	KE30084	Socket	4
10	KE30085	Plug	4
11	B500325	Cable Extension	3



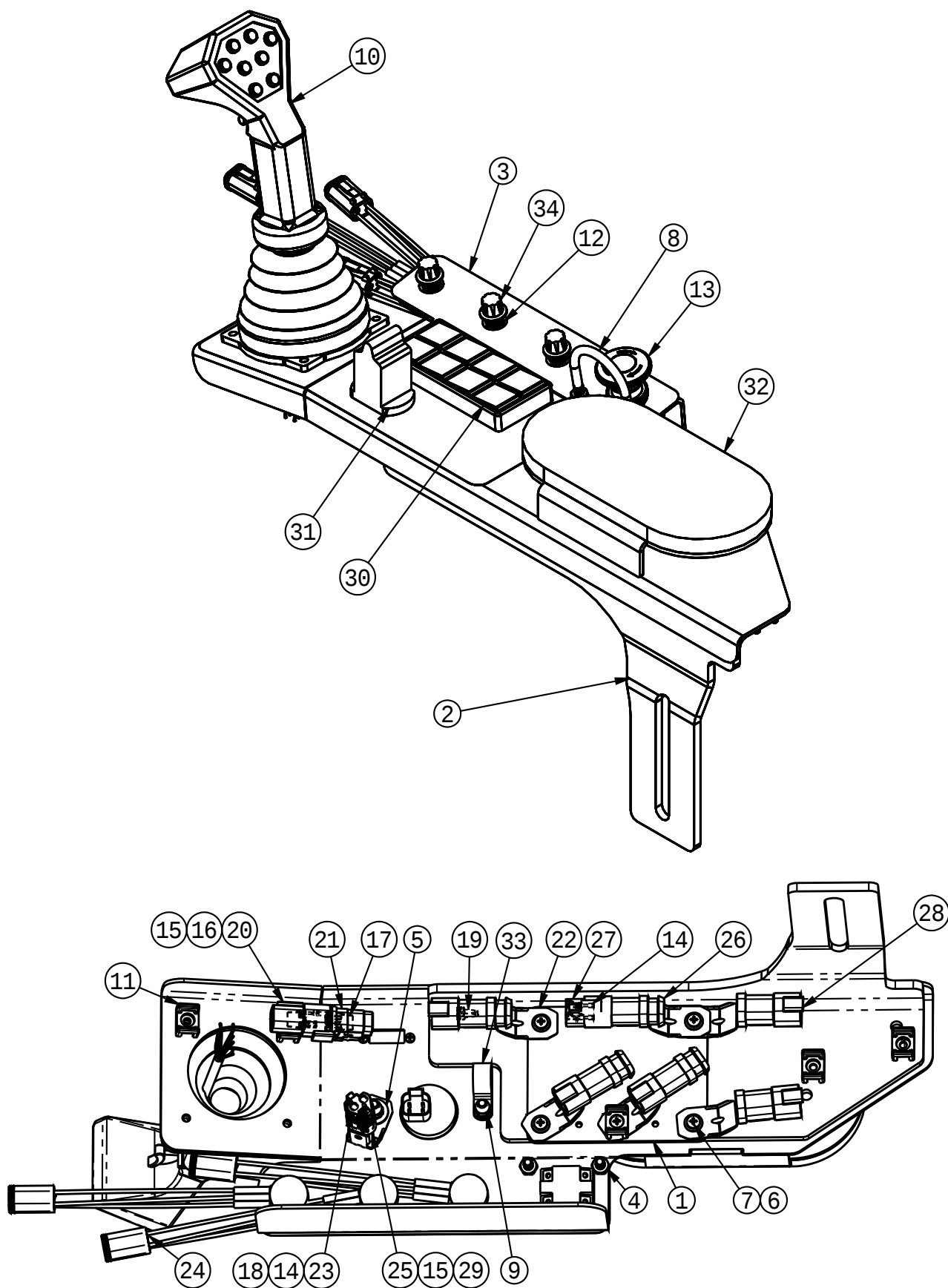
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 5, 6 & 11	
1	KE60190	Multiports & Cable	3
2	KE60124	Cable	1
3	KE60117	Cable	1
4	KE60125	Cable	3
5	KE60126	Cable	1 or 2
6	B500322	Cable Extension	1
7	KE60127	Cable	3
8	KE60149	Cable	2 or 3
9	KE30085	Cable Connector	2
10	KE30084	Cable Connector	2
11	B500323	Cable Extension	1

NOTE

On Multport 11, J3, use Item 5 for Proximity Sensor or Item 8 for Infared Sensor

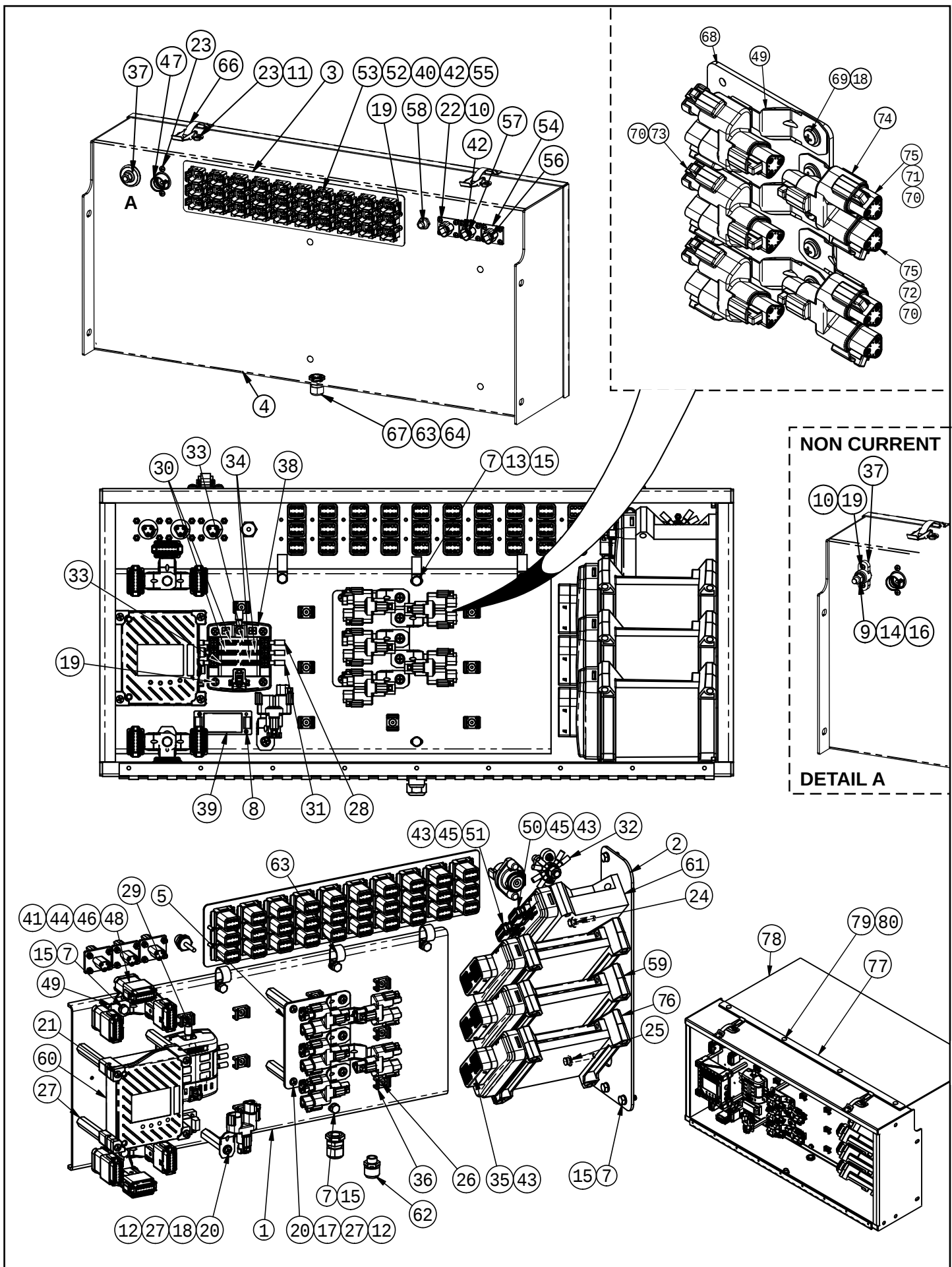


ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester 4000 Electrical Diagram	
1	B500175	Tail Light Wiring Harness	1
2	B500230	Cab Main Wiring Harness	1
3	B500311	Power Tray to Main Panel Cable Assembly	1
4	KE90022	Work Lights	3
5	KE90023	Marker Lights	4
6	B500250	Power Tray to Hood Harness	1
7	B500313	Power Tray to Strobe, AC Clutch, Washer & Fuel Gage Cable Ass'y	1
8	B500412	Engine Harness - Current from Serial # 87	1
	B500174	Engine Harness - Non Current up to Serial # 86	1
9	KE80046	Switch	1
10	B500226	Main Ground Cable	1
11	B500280	Main Panel Ground Cable	1
12	B500277	Power Tray to Main Panel Power Cable	1
13	B500278	Battery to Power Tray Power Cable	1
14	B500312	Power Tray to Steering Column Harness	1
15	B500395	Engine Canbus Cable	1
16	B500397	Joystick Panel Canbus Cable	1
17	B500398	Joystick Steer Valve Canbus Cable	1
18	B500279	Power Tray to Ground Cable	1



Brouwer 4000 Sod Harvester Joystick Console Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101379	1	CANBUS MOUNTING PLATE
2	B300170	1	CAB CONSOLE AND ARM REST
3	D001-296	1	DECAL - BROUWER 4000 CONSOLE
4	F230400	4	HEX NUT - 1/4" UNC
5	F320400	1	WASHER-1/4
6	F350308	4	S.A.E. #12 FLAT WASHER S.S.
7	F580202	5	PAN HEAD PHIL - #10 -32 x 1/4 LG. ST ST SCREW
8	F970430	1	1/4 UNC X 3.00 X 1.75 INSIDE U-BOLT
9	G230625	2	M6 HEX K-LOCKNUT
10	KE00024	1	JOYSTICK HANDLE L SERIES & BASE
11	KE10185	5	CABLE TIE MOUNT
12	KE10230	3	POTENTIOMETER - 1K OHM
13	KE10309	1	E-STOP BOX AND PUSH BUTTON
14	KE30002	6	DEUTSCH SOCKET SIZE 20
15	KE30005	20	DEUTSCH SOLID PIN 16, 18, 20 AWG
16	KE30021	1	WEDGE - 6 PIN DTM PLUG
17	KE30022	1	WEDGE - 6 PIN DTM RECEPTACLE
18	KE30026	1	WEDGE - 3 PIN BLUE
19	KE30028	4	WEDGE - 4 PIN DT PLUG
20	KE30041	1	DEUTSCH DTM RECEPTACLE - 6
21	KE30042	1	DEUTSCH DTM PLUG - 6
22	KE30047	7	MOUNTING BRACKET - DEUTSCH PLUG
23	KE30049	1	TERMINATING RESISTOR
24	KE30083	3	DEUTSCH PLUG
25	KE30086	1	DEUTSH RECEPTACLE - 3 PIN
26	KE30096	4	DEUTSCH 4 PIN RECEPTACLE
27	KE30099	1	DEUTSCH 4 PIN PLUG
28	KE30103	2	DEUTSCH DT 6 WAY BUSS PLUG
29	KE30123	1	WEDGE - 3 PIN RECEPTACLE BLUE
30	KE70034	1	KEYPAD - 8 BUTTON CANBUS
31	KE80042	1	THROTTLE - FINGER SWITCH
32	KM40013	1	ARM REST PAD
33	KM60020	1	CLAMP - RUBBER INSULATED 5/8 I.D. x 1/2 WIDE
34	KM99075	3	KNOB - SERRATED ALCOKNOB

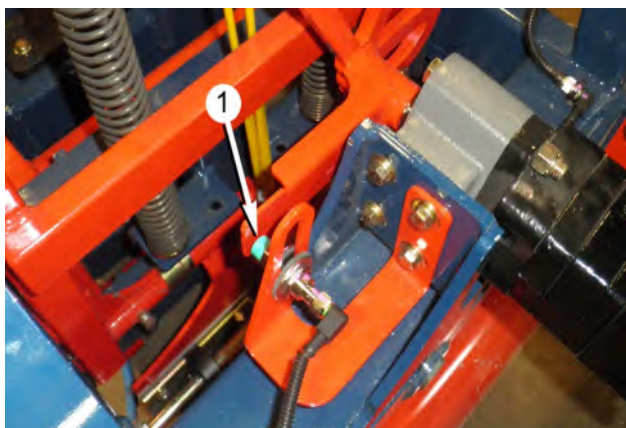


Brouwer 4000 Sod Harvester

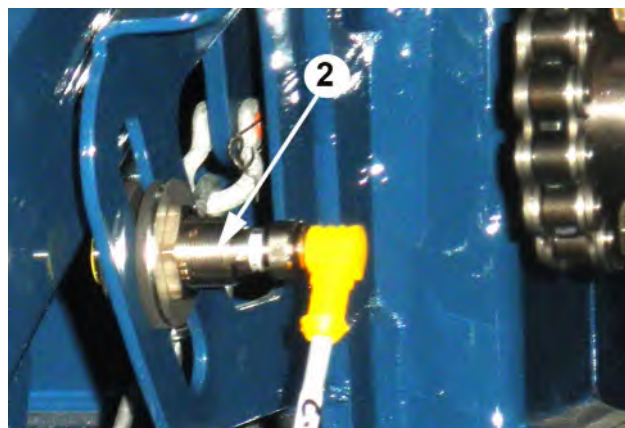
Main Electrical Control Box Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100538	1	INNER PANEL ELECTRICAL BOX
2	B100569	1	CONTROLLER MOUNTING PLATE
3	B101218	1	MAIN ELECTRICAL PANEL CONNECTOR KEEPER PLATE
4	B300037	1	ELECTRICAL BOX WELDMENT 4000
5	B500317	1	CANBUS PLATE ASSEMBLY
6	D001-347	1	DECAL - ELECTRICAL BOX 4000 (NOT SHOWN)
7	F040406	9	BOLT 1/4 UNC x 3/4 Gr 8
8	F180B04	2	SOCKET HD #4-40 x 0.50 LG. ZN PL
9	F230600	2	NUT - 3/8-16 - NON CURRENT
10	F280100	12	NUT 8-32 UNC NYLON LOCK ST. STL
11	F280200	4	HEX NYLOC - 10-24 UNC ST.ST.
12	F280250	7	10-32 NYLOC NUT S/S
13	F310408	3	WASHER - 1/4 LOCK Gr 8
14	F310600	2	LOCK WASHER - 3/8 - NON CURRENT
15	F330408	9	WASHER - 1/4 SAE Gr 8
16	F330600	2	FLAT WASHER SAE 3/8 - NON CURRENT
17	F350200	2	S.A.E. #10 FLAT WASHER S.S.
18	F350308	6	S.A.E. #12 FLAT WASHER S.S.
19	F570104	26	PAN HD PHIL 8-32 X 0.50 LG. ST STL
20	F570204	3	PAN HD PHIL 10-32 x 0.50 LG. ST STL
21	F570220	4	PAN HD PHIL 10-32 x 2.00 LG. ST STL
22	F580106	12	PAN HD PHIL - #8-32 ST. STL.
23	F580204	6	#10-24 UNC X 1/2 PHMS S.S.
24	F870412	1	BOLT SERR FLANGE HEAD 1/4-20 UNC X 1 1/4 LG.
25	F870414	3	BOLT SERR FLANGE HEAD 1/4-20 UNC X 1 1/2 LG.
26	F930304	10	POP RIVET. 3/16 ALUMINUM 1/4 - 3/8 GRIP
27	F960224	7	STAND-OFF 1/2 HEX M-F 10-32
28	KE10029	4	TERMINAL - RING 16-14 GA. INSULATED NYLON
29	KE10030	1	TERMINAL - RING INSULATED 12-10 GA.
30	KE10062	2	FUSE - 10 AMP ATO
31	KE10082	2	RING TERMINAL RED
32	KE10084	6	TERMINAL - FEMALE 16-14 GA.
33	KE10085	2	FUSE - 5 AMP ATO
34	KE10132	2	FUSE - 1 AMP ATO
35	KE10148	3	50 PIN MATING CONNECTOR
36	KE10185	10	CABLE TIE MOUNT
37	KE10284	1	JUNCTION BLOCK STUD FEED THROUGH - BLACK - NON CURRENT
	KE10423	1	FEED THROUGH STUD - BLACK - 250 A - CURRENT
38	KE10307	1	FUSE BLOCK - 6 CIRCUITS
39	KE10343	1	DC - DC CONVERTER 12-24
40	KE30005	163	DEUTSCH SOLID PIN 16, 18, 20 AWG
41	KE30006	72	DEUTSCH SOCKET SIZE 16, 18, 20 AWG
42	KE30014	28	DEUTSCH SOLID PIN 16, 18, 20 AWG
43	KE30016	174	DEUTSCH SOCKET SIZE 20
44	KE30023	4	WEDGE - 12 PIN DT RECEPTACLE
45	KE30032	2	WEDGE - 12 PIN DTM PLUG
46	KE30043	6	POWER BUSS PLUG
47	KE30045	1	DEUTSCH SOCKET 6 AWG
48	KE30046	7	GROUND BUSS - 12 PIN
49	KE30047	8	MOUNTING BRACKET - DEUTSCH PLUG
50	KE30062	1	DEUTSCH DTM PLUG - 12 PIN A
51	KE30068	1	DEUTSCH DTM PLUG - 12 PIN B
52	KE30083	58	DEUTSCH PLUG
53	KE30084	30	DEUTSCH SOCKET - 8 PIN
54	KE30089	3	DEUTSCH DT 3 PIN RECEPTACLE W/ FLANGE
55	KE30121	30	WEDGE - 8 PIN PLUG
56	KE30122	2	WEDGE - 3 PIN RECEPTACLE (GREEN)
57	KE30123	1	WEDGE - 3 PIN RECEPTACLE BLUE
58	KE60161	1	WIRE HARNESS - CANBUS RECEPTACLE
59	KE70040	3	PLUS1 CONTROLLER 50 PIN (EURO QTY: 2x)
60	KE70044	1	TELEMATICS MODULE WS 403 (USE KE70043)
61	KE70047	1	PLUS1 CONTROLLER 24 PIN OUTPUT MODULE
62	KH99005	1	SELF DRAIN AND BREATHER VENT
63	KM30023	1	BUNA-N O-RING PG 11
64	KM30024	1	NYLON LOCKING NUT PG 11
65	KM60020	3	CLAMP - RUBBER INSULATED 5/8 I.D. x 1/2 WIDE
66	KM99016-LATCH	2	DRAW LATCH
67	R101951	1	STRAIN RELIEF FITTING MOD
68	B101379	1	CANBUS MOUNTING PLATE
69	F580203	5	PAN HEAD PHIL - #10 -32 x 3/8 LG. ST ST SCREW
70	KE30015	43	DEUTSCH SOCKET SIZE 16
71	KE30024	5	WEDGE - 3 PIN ORANGE
72	KE30026	8	WEDGE - 3 BLUE
73	KE30049	4	TERMINATING RESISTOR
74	KE30051	6	DEUTSCH DT PLUG - 3
75	KE30061	13	DEUTSCH DT SOCKET - 3 PIN
76	KE70048	1	PLUS1 CONTROLLER EXTENDED MEMORY EURO 50 PIN (EURO)
77	B101775	1	MAIN PANEL BAR RUBBER FLAP - CURRENT FROM S/N 90
78	B101776	1	MAIN PANEL RUBBER FLAP - CURRENT FROM S/N 90
79	F020406	4	BOLT - 1/4 UNC x 4/4 CARRIAGE - CURRENT FROM S/N 90
80	F210400	4	1/4-20 UNC NYLOC NUT - CURRENT FROM S/N 90

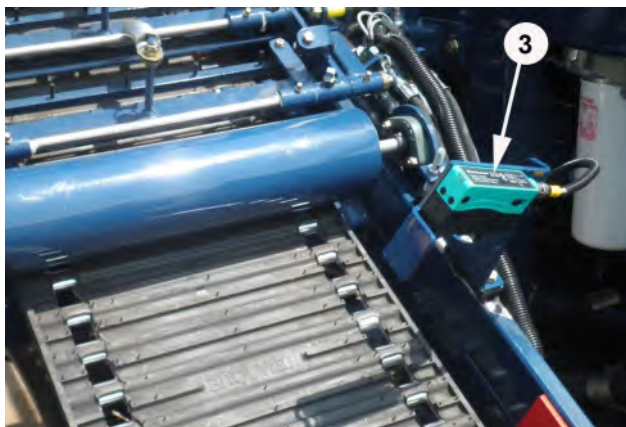
4000 SENSOR IDENTIFICATION



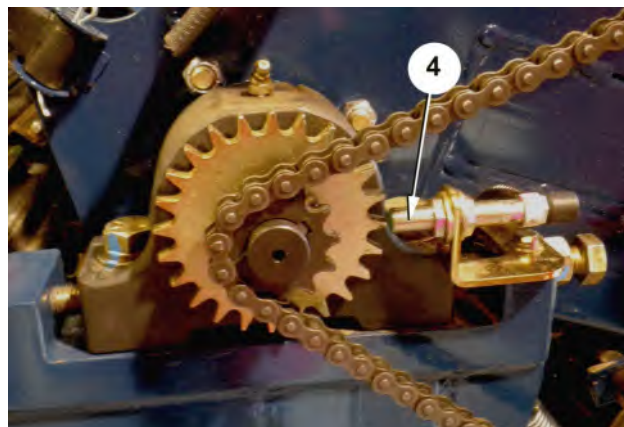
1. Cut-Off - Sensor to Target 1/4 in. to 3/8 in.
Part No. KE10174 – 15 MM Inductive Proximity Switch



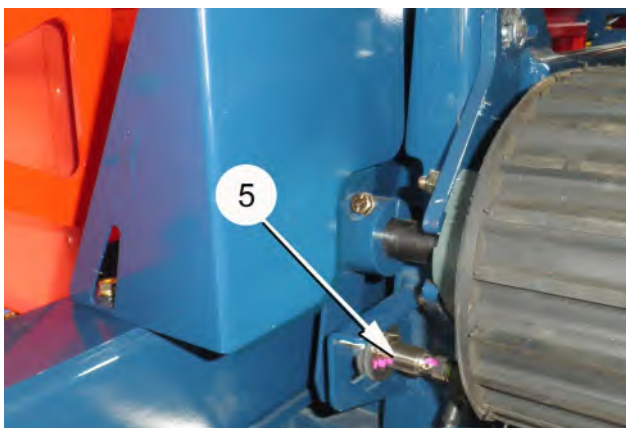
2. Conveyor 'DOWN' - Sensor to Target 1/8 in. to 1/4 in.
Part No. KE10155 – 8 MM Inductive Proximity Switch



3. Slab End Sensor.
Part No. KE10389 – Diffuse Sensor W16



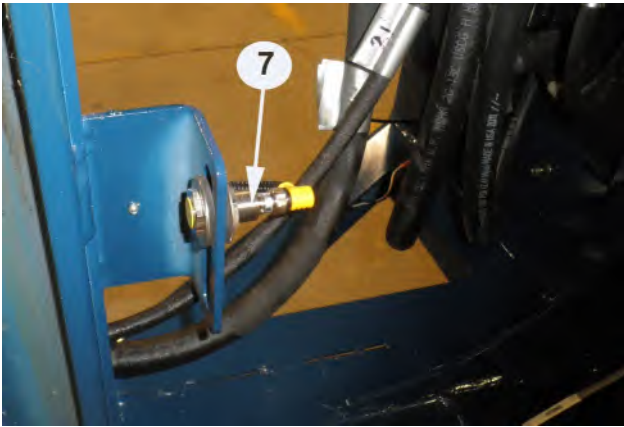
4. Roll Flap (Tooth Count) Sensor to Target 1/8 in.max
Part No. KH30088 - Conveyor Motor with High
Speed Sensor – CURRENT
Part No. KH30089 – High Speed Sensor – CURRENT
Part No. 4132981 – 4 MM Inductive Sensor – N/C



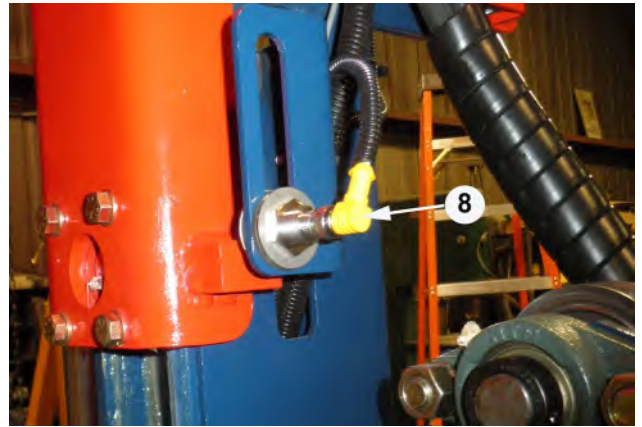
5. Index Conv'. 'CLEATS' position Sensor to Target .
1/8 in. to 1/4in
Part No. KE10155 – 8 MM Inductive Proximity Switch



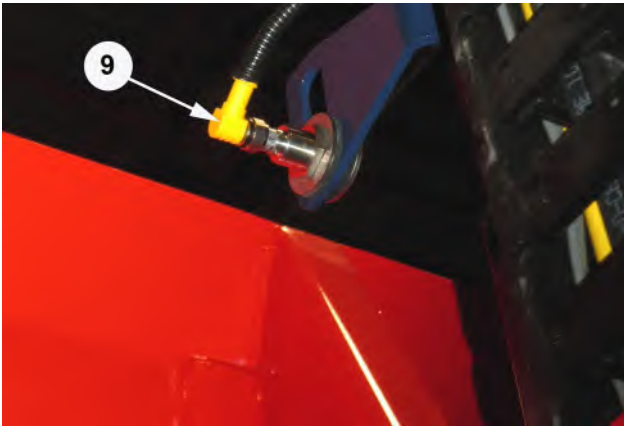
6. Mast 'Height' Sensor. No adjustment.
Part No. B500210 – Ultrasonic Sensor w/Decal



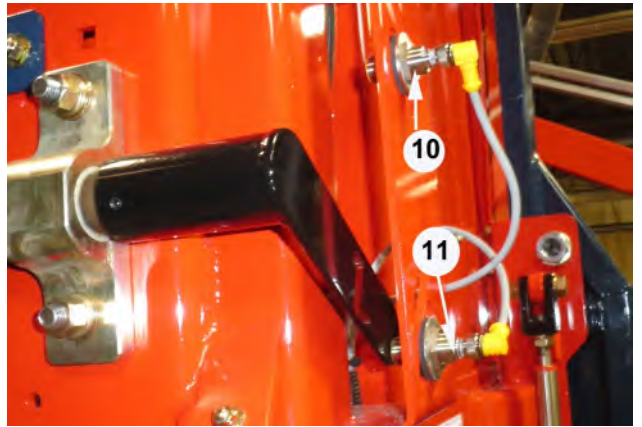
**7. Pallet Disp'. 'Bottom'. Sensor to Target 1/8in. to 1/4in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**



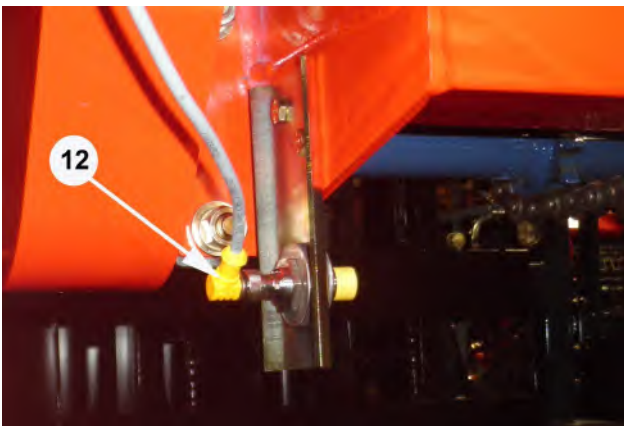
**8. Pallet Disp'. 'Mid.' Sensor to Target 1/8in. to 1/4in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**



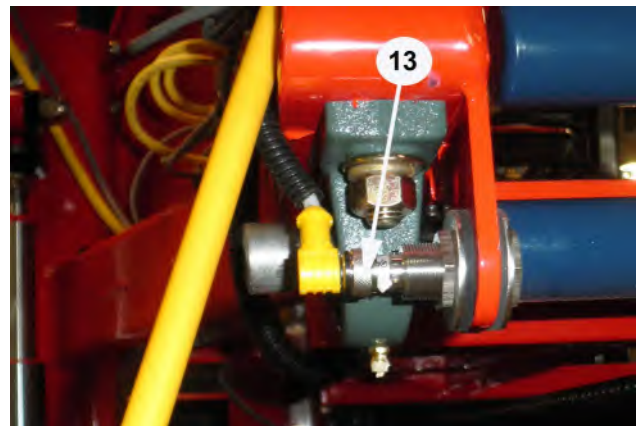
**9. Pallet Disp'. 'High'. Sensor to Target 1/8in. to 1/4in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**



**10/11. Paddles 'Up-Down' Sensor to Target 1/8in. to 1/4in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**

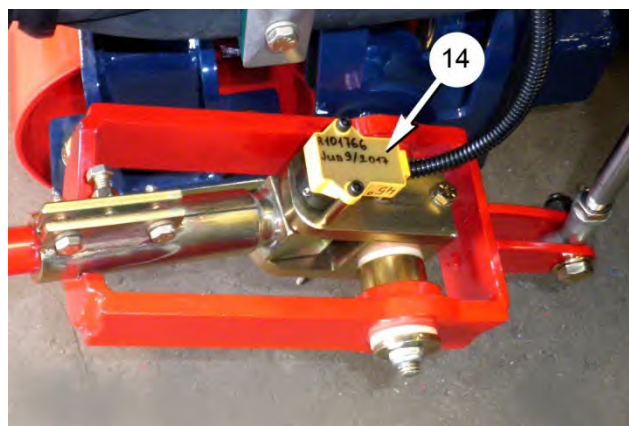


**12. Push Bar 'Away' Sensor to Target 1/4in. to 3/8in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**



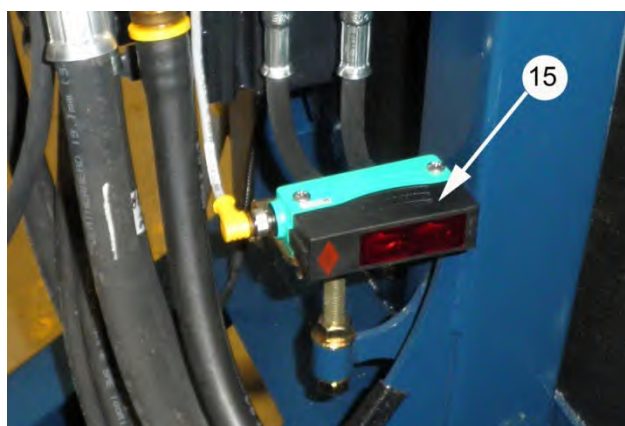
**13. Push Bar 'Home'. Sensor to Target 1/8in. to 1/4in.
Part No. KE10155 – 8 MM Inductive Proximity Switch**

4000 SENSOR IDENTIFICATION



14. Ski Angle Sensor.

Part No. R101766 – Rotary Sensor Programmed 45 Deg.



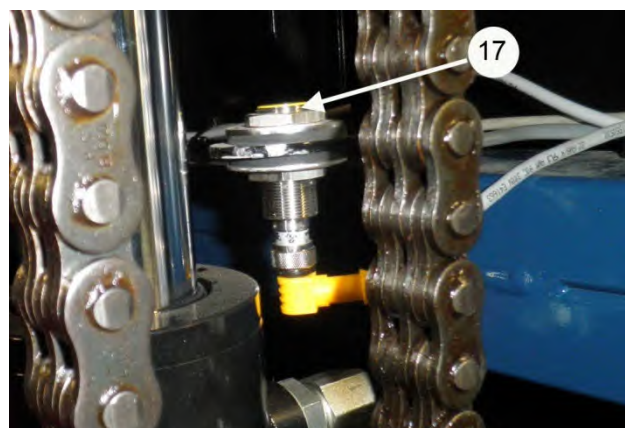
15. Pallet 'Clear' Sensor (Cover removed). No adjustment

Part No. KE10389 – Diffuse Sensor W16



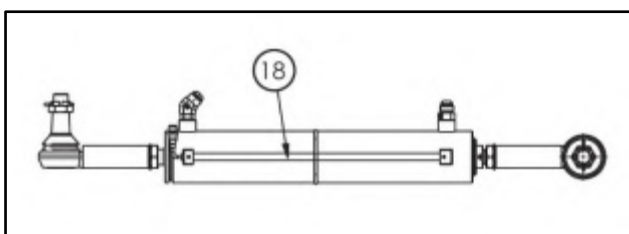
16. Arm Rail Sensor.No adjustment.

Part No. B500483 – Arm Rail Sensor Assembly



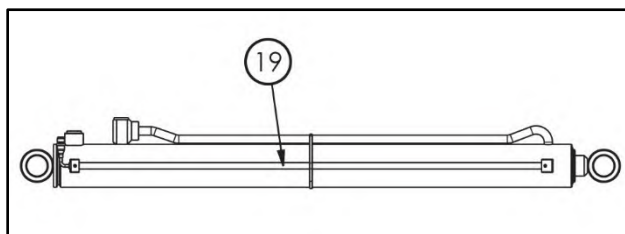
17. Forks 'Bottom'. Sensor to Target 1/8in to 1/4in.

Part No. KE10155 – 8MM Inductive Proximity Switch



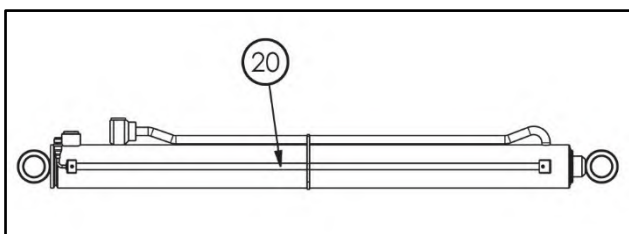
18. Steering Cylinder Sensor.

Part No. KH70124 – Steering Cylinder Sensor



19. Arm Reach Cylinder Sensor.

Part No. KH70125 – Arm Reach Cylinder Sensor

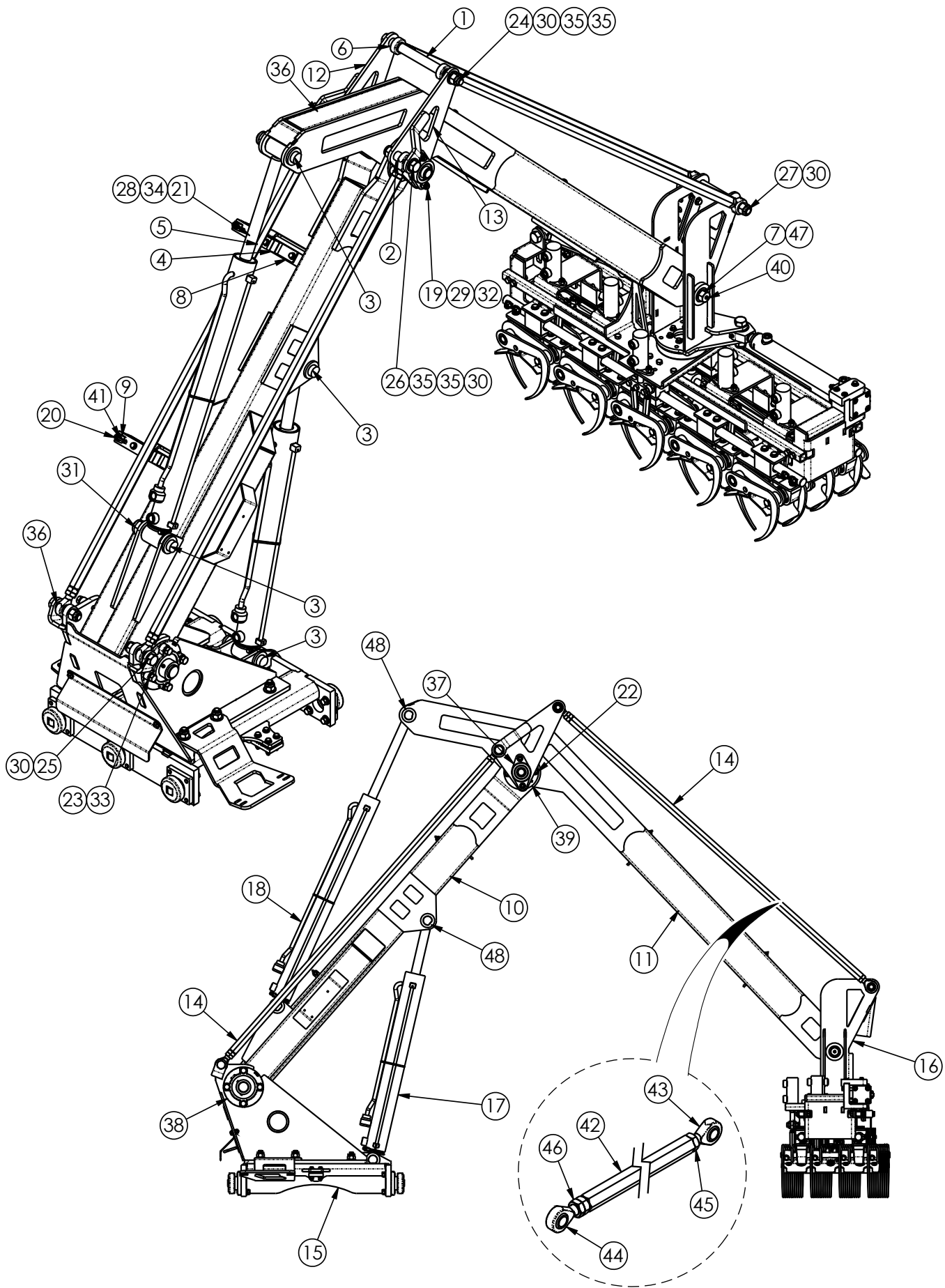


20. Lift Arm Cylinder Sensor.

Part No. KH70126 – Lift Arm Cylinder Sensor

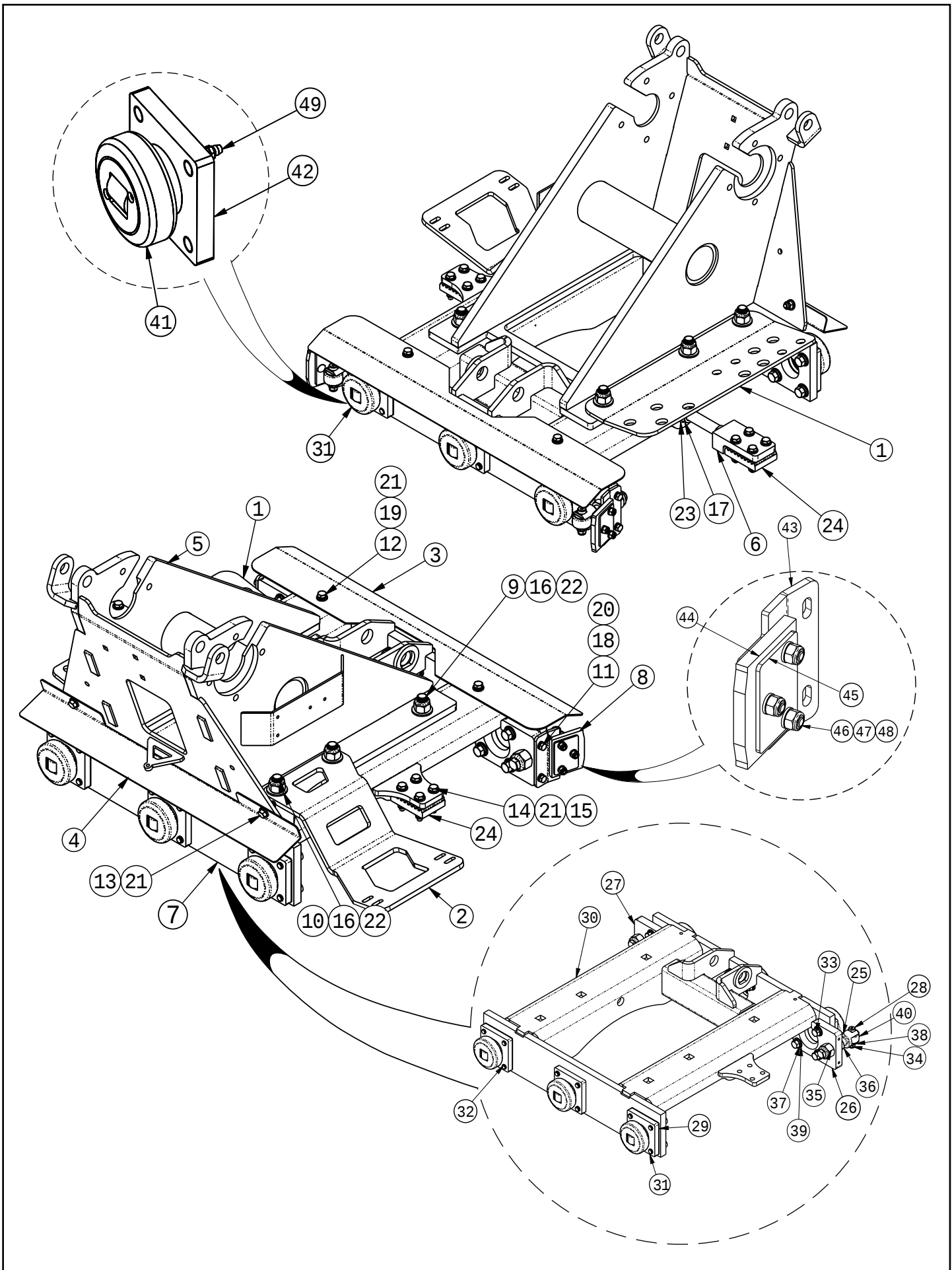
SECTION 6 ROBOTIC ARM & PALLET DISPENSER

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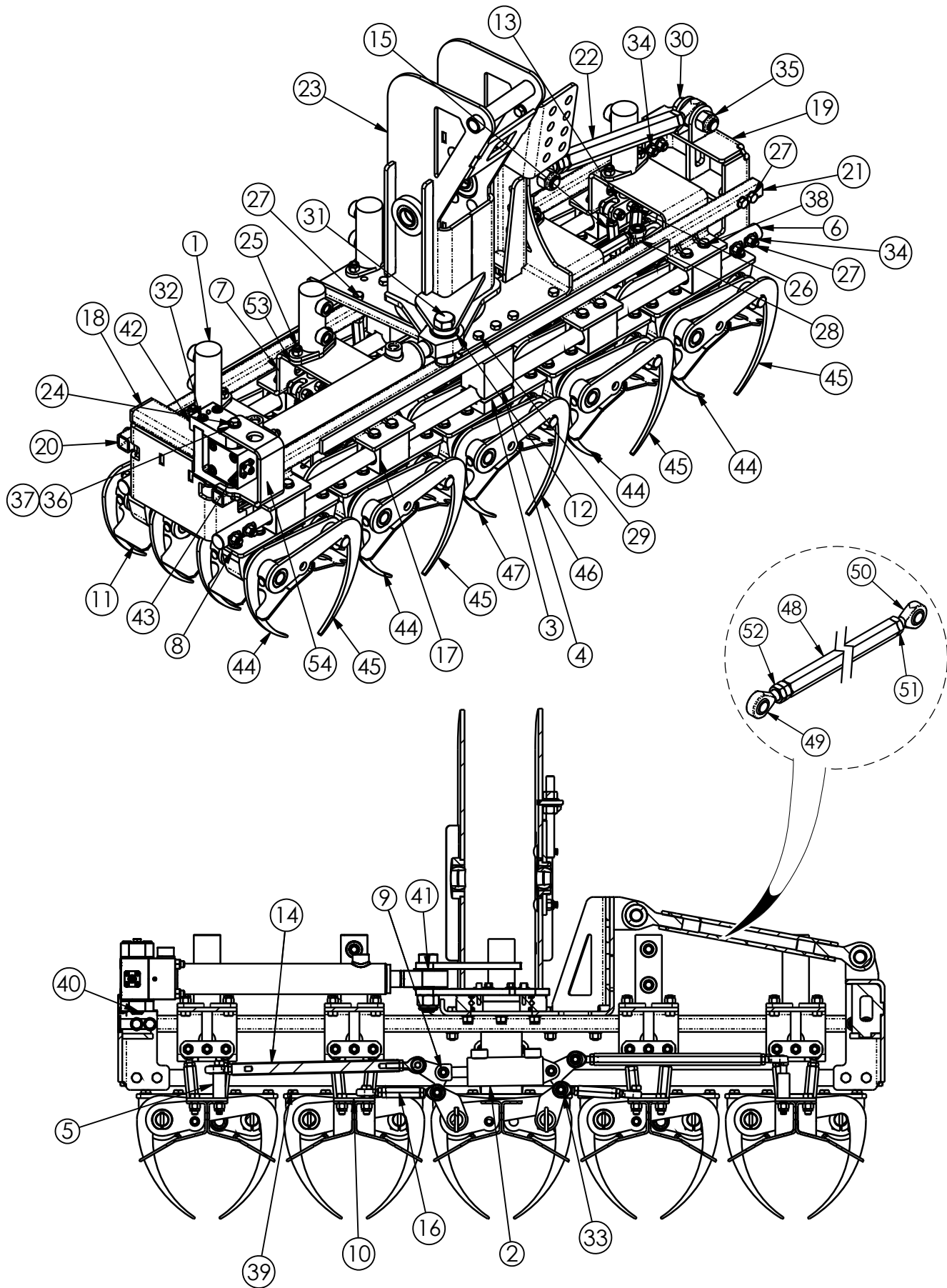
Brouwer 4000 Sod Harvester Robotic Arm Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100212	1	LINKAGE REACH SPACER
2	B100219	2	SPACER LINKAGE UPPER
3	B100226	4	REACH & LIFT CYLINDER PIN
4	B100489	4	ARM HOSE CLAMP CENTRE
5	B100490	8	ARM HOSE CLAMP OUTER
6	B100954	2	LINKAGE SPACER 0.50
7	B101045	2	PIVOT BOLT
8	B101232	2	HOSE CLAMP SPACER LIFT ARM
9	B101234	4	ELECTRICAL MOUNT ARM
10	B300244	1	LIFT ARM WELDMENT - CURRENT FROM SERIAL #36
	B300022	1	LIFT ARM WELDMENT - NON CURRENT UP TO SERIAL #35
11	B300245	1	REACH ARM WELDMENT - CURRENT FROM SERIAL #36
	B300023	1	REACH ARM WELDMENT - NON CURRENT UP TO SERIAL #35
12	B300202	1	ELBOW LINKAGE
14	B500015	4	LINKAGE BAR ASSEMBLY
15	B500017	1	BASE ASSEMBLY
16	B500049	1	GRIPPER ASSEMBLY 16 IN.
17	B500218	1	ARM LIFT CYLINDER ASSEMBLY - CURRENT FROM SERIAL #35
	B500089	1	ARM LIFT CYLINDER ASSEMBLY - NON CURRENT UP TO SERIAL #34
18	B500217	1	REACH CYLINDER ASSEMBLY - CURRENT FROM SERIAL #35
	B500090	1	REACH CYLINDER ASSEMBLY - NON CURRENT UP TO SERIAL #34
19	F020716	4	7/16-UNC 1-3/4 LG CARRIAGE BOLT
20	F040510	2	BOLT - 5/16 UNC x 1.0 Gr 8
21	F040532	12	HEX BOLT - 5/16 UNC x 3.25 LG. GR 8
22	F040714	8	BOLT - 7/16 UNC x 1 1/2 Gr 8
23	F040816	8	BOLT - 1/2 UNC X 1 3/4 Gr 8
24	F0412110	1	HEX BOLT - 3/4 -10 x 11.0 LG. GR 8
25	F041234	2	HEX BOLT 3/4 -10 UNC x 3.50 LG. GR 8
26	F041240	2	HEX BOLT 3/4 -10 UNC x 4.00 LG. GR 8
27	F041286	1	HEX BOLT - 3/4 -10 x 8.75 LG. GR 8
28	F210500	14	NUT-5/16 UNC NYLOC
29	F210700	4	HEX LOCK NUT - 7/16 UNC
30	F211200	6	NYLOC NUT 3/4 UNC
31	F211650	4	NYLOC NUT 1.00 -14 UNF
32	F310700	12	LOCK WASHER - 7/16
33	F310800	8	LOCK WASHER - 1/2
34	F330500	28	5/16 SAE WASHER
35	F331200	6	SAE FLAT WASHER - 3/4"
36	H110623	6	TIE ROD BALL END SPACER (4WD NH)
37	KB10205	2	BALL BEARING SERIES UC2 (SET SCREW TYPE) WITH HOUSING
38	KB31024	2	FLANGE BEARING 1.50 DIA. - 4 BOLT
39	KB31025	2	FLANGE BEARING 1.25 DIA. 4 BOLT
40	KM11400	2	STRAIGHT GREASE FITTING
41	KX99150	4	CABLE TIE 8.0 IN. W/ FIR TREE 0.25
42	B100216	4	LINKAGE BAR
43	CM00121	4	ROD END - MALE 3/4 UNF R.H.
44	CM00122	4	ROD END - MALE 3/4 UNF L.H.
45	F221250	4	HEX JAM NUT - 3/4 UNF
46	F221260	4	HEX JAM NUT - 3/4-16 UNF L.H.
47	B101041	1	ARM SLEEVE
48	KB11016	2	1.00 IN. SPHERICAL PLAIN BEARING



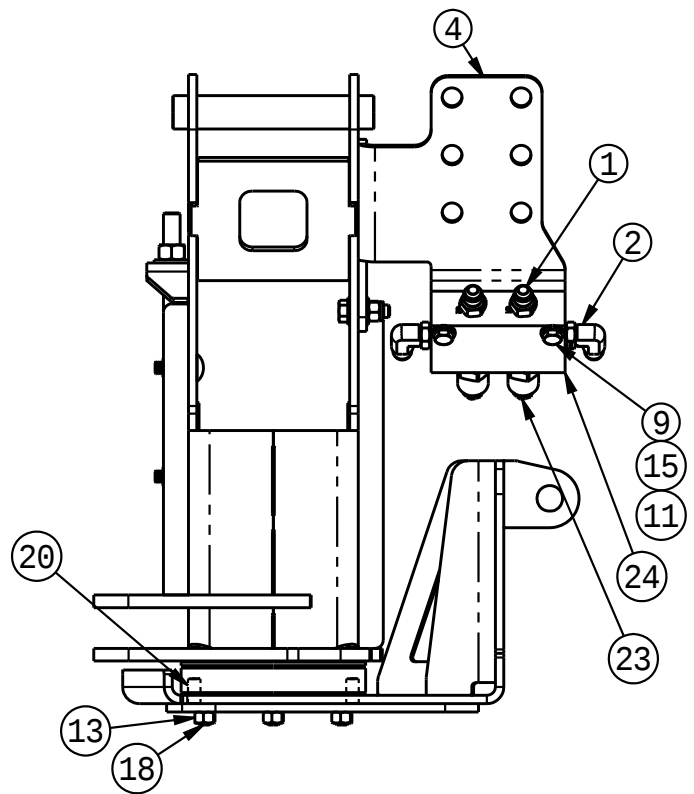
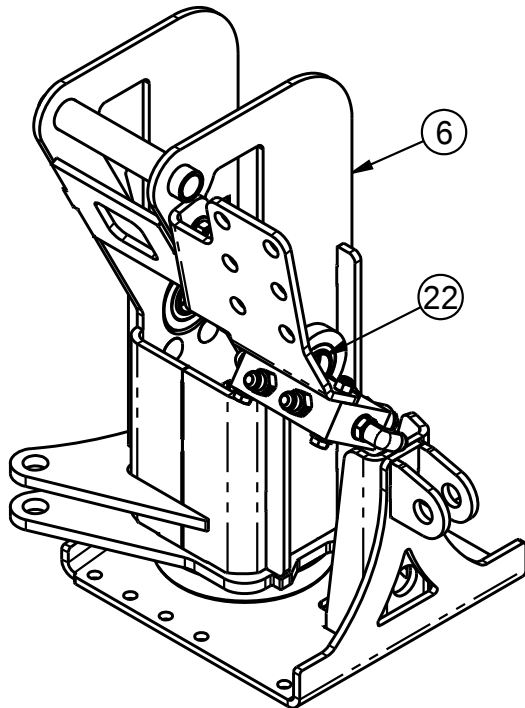
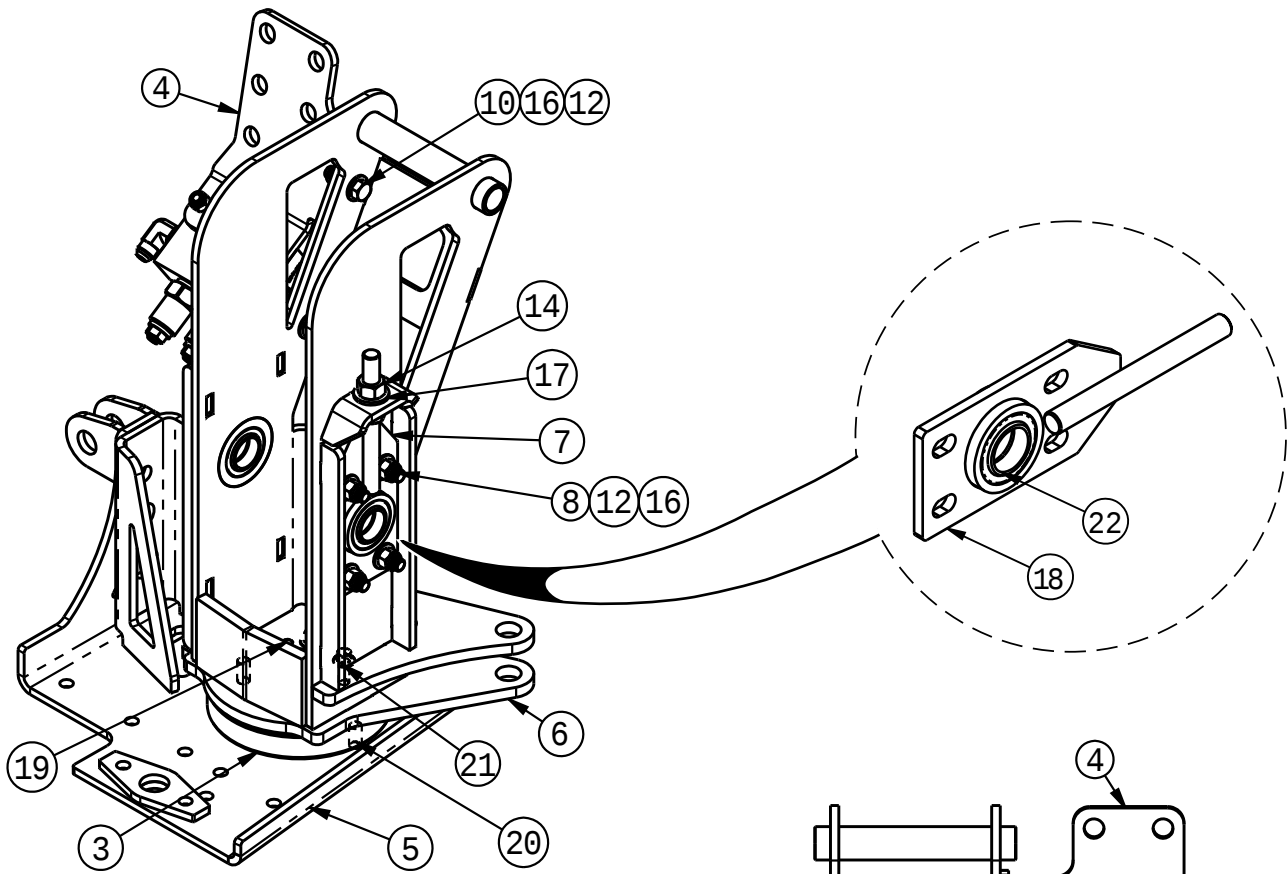
Brouwer 4000 Sod Harvester Robotic Arm Base Assembly

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	B100487	1	ARM BASE BULKHEAD
2	B100800	1	ENERGY CHAIN UPPER MOUNT
3	B101305	1	ARM CHANNEL COVER CURRENT FROM SERIAL # 33
4	B101395	1	ARM ROLLER COVER LH CURRENT FROM SERIAL # 33
	B100940	1	LINEAR POSITION COVER NON CURRENT UP TO SERIAL # 32
5	B300025	1	ARM BASE WELDMENT
6	B300296	1	36 MM DRIVE BELT TENSIONER CURRENT FROM SERIAL #81
	B300201	1	BELT TENSIONER MOUNT NON CURRENT UP TO SERIAL #80
7	B500016	1	BASE CARRIER ASSEMBLY
8	B500198	2	CHANNEL SCRAPER ASS. CURRENT FROM SERIAL # 33
9	F021020	1	CARRIAGE BOLT - 5/8 -11 UNC x 2.00 LG.
10	F021022	5	CARRIAGE BOLT 5/8 -11 UNC x 2.25 LG.
11	F040406	4	BOLT 1/4 UNC x 3/4 Gr 8 CURRENT FROM SERIAL # 33
12	F040506	2	BOLT - 5/16 UNC x 3/4 Gr 8 CURRENT FROM SERIAL # 33
13	F040510	2	BOLT - 5/16 UNC x 1.0 Gr 8
14	F040516	8	BOLT - 5/16 UNC x 1 3/4 Gr 8
15	F210500	10	NUT-5/16 UNC NYLOC
16	F211000	6	NUT-5/8 UNC NYLOC
17	F221250	2	HEX JAM NUT - 3/4 UNF
18	F310400	4	WASHER - 1/4 LOCK CURRENT FROM SERIAL # 33
19	F310500	2	LOCK WASHER - 5/16 CURRENT FROM SERIAL # 33
20	F330400	4	1/4 SAE FLAT WASHER CURRENT FROM SERIAL # 33
21	F330500	14	5/16 SAE WASHER
22	F331000	6	FLAT WASHER SAE 5/8 IN.
23	F331200	2	SAE FLAT WASHER - 3/4"
24	KD64011	2	TOP PLATE - BELT ATTACHMENT 36-8MGT CURRENT FROM SERIAL # 81
	KD64003	2	TOP PLATE - BELT ATTACHMENT 21-8MGT NON CURRENT UP TO SERIAL #80
25	B101268	2	CARRIER CAR CAM FOLLOWER MOUNT CURRENT FROM SERIAL # 33
26	B101269	1	CAM FOLLOWER MOUNTING PLATE LH CURRENT FROM SERIAL # 33
27	B101270	1	CAM FOLLOWER MOUNTING PLATE RH CURRENT FROM SERIAL # 33
28	B101271	2	CAM FOLLOWER MOUNT BOLT CURRENT FROM SERIAL # 33
29	B101277	4	CARRIER ROLLER SHIM PLATE CURRENT FROM SERIAL # 33
30	B300028	1	ARM CARRIER WELDMENT
31	B500097	6	PRECISION COMBINATION ROLLER ASSEMBLY
32	F040714	16	BOLT - 7/16 UNC x 1 1/2 Gr 8
33	F040722	8	HEX BOLT - 7/16 -14 UNC x 2.25 LG. GR 8 CURRENT FROM SERIAL # 33
34	F210500	2	NUT-5/16 UNC NYLOC CURRENT FROM SERIAL # 33
35	F211200	2	NYLOC NUT 3/4 UNC CURRENT FROM SERIAL # 33
36	F221200	2	JAM NUT 3/4 - UNC CURRENT FROM SERIAL # 33
37	F310700	24	LOCK WASHER - 7/16
38	F330500	2	5/16 SAE WASHER CURRENT FROM SERIAL # 33
39	F330700	24	7/16 SAE FLAT WASHER
40	KB12124	2	CAM FOLLOWER 1.25 O.D. CURRENT FROM SERIAL # 33
41	KB10013	6	PRECISION COMBINATION BEARING ROLLER
42	R300070	6	BEARING PLATE WELDMENT
43	B101288	1	CHANNEL SCRAPER PLATE CURRENT FROM SERIAL # 33
44	B101303	1	RUBBER CHANNEL SCRAPER CURRENT FROM SERIAL # 33
45	B101304	1	RUBBER SCRAPER CLAMP PLATE CURRENT FROM SERIAL # 33
46	F210410	3	BOLT - 1/4 UNC x 1 CARRIAGE CURRENT FROM SERIAL # 33
47	F210400	3	1/4-20 UNC NYLOC NUT CURRENT FROM SERIAL # 33
48	F330400	3	1/4 SAE FLAT WASHER CURRENT FROM SERIAL # 33
49	KX90031	6	GREASE FITTING - STRAIGHT - METRIC (M6.0 x 1.0) 41mm LG



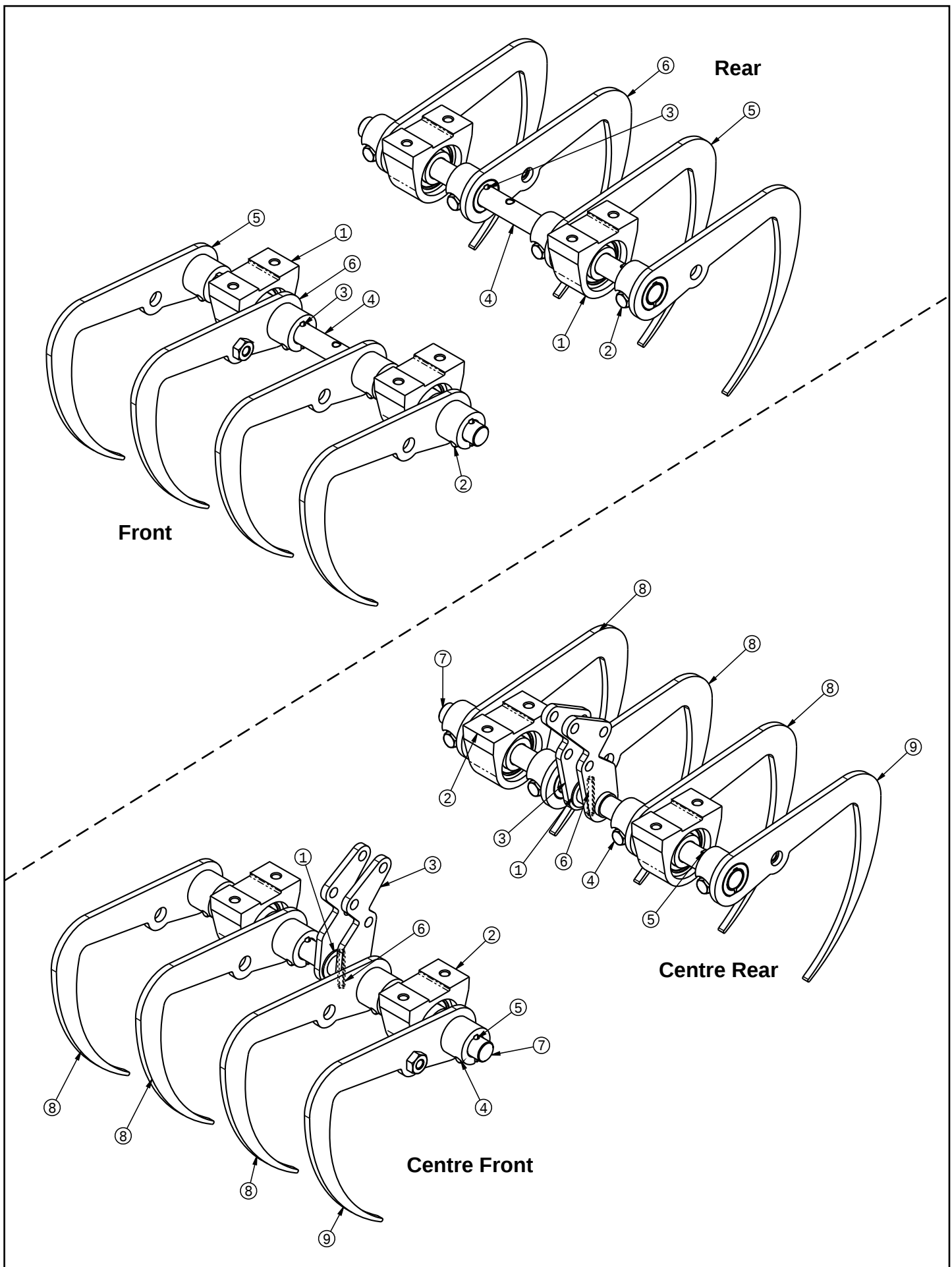
Brouwer 4000 Sod Harvester Gripper Head Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4128723	5	GRIPPER FACE MOUNT CYLINDER
2	4128874	1	GRIPPER SQUEEZE CYLINDER
3	4128981	2	LOWER V-BLOCK
4	4128982	2	UPPER V-BLOCK
5	4129241	2	SPACER - 0.75 O.D. x 0.406 I.D. x 1.51 LG.
6	4129259	2	GUIDE SHAFT
7	4129294	4	CYLINDER MOUNT BRACKET
8	4129300	10	GRIPPER HEAD PLATE FRAME
9	4129317	2	SPACER 0.625 O.D. x 0.385 I.D. x 0.50 LG.
10	4132724	4	LINK PLATE
11	4132920	5	ROLL BRACKET WELDMENT
12	4134564	2	THRUST WASHER
13	4142710	5	BRACKET PIVOT GRIPPER FINGER
14	4160588	2	ADJUSTING LINK ASSEMBLY SQUEEZE LONG
15	4160589	10	ADJUSTING LINK ASSEMBLY GRIPPER TONG
16	4160589	2	ADJUSTING LINK ASSEMBLY GRIPPER TONG
17	4160635	8	GUIDE BLOCK ASSEMBLY
18	B300027	1	TURN CYLINDER MOUNT
19	B300117	1	GRIPPER END WELDMENT
20	B300160	1	TUBE GRIPPER FRAME WELDMENT LH
21	B300161	1	TUBE GRIPPER FRAME WELDMENT RH
22	B500109	1	GRIPPER HEAD LINKAGE BAR ASSEMBLY
23	B500148	1	GRIPPER PIVOT ASSEMBLY
24	F040510	1	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8 - CURRENT FROM SERIAL # 132
	F040404	1	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8 - NON CURRENT UP TO SERIAL # 131
25	F040610	24	BOLT - 3/8 UNC x 1.0 Gr 8
26	F040614	23	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
27	F040616	22	BOLT - 3/8 UNC x 1 3/4 Gr 8
28	F040630	2	BOLT - 3/8 UNC x 3.0 Gr 8
29	F040660	4	HEX BOLT 3/8 -16 UNC x 6.00 LG. GR 8
30	F041224	2	HEX BOLT - 3/4 UNC X 2-1/2 LG GR. 8
31	F041230	1	BOLT - 3/4 UNC X 3.0 Gr 8
32	F180616	2	SOC HD CAP - 3/8 UNC x 1 3/4 LG.
33	F210600	39	HEX LOCK NUT - 3/8 -16 UNC
34	F210612	26	HEX NUT -3/8 -16 UNC FLANGE STOVER
35	F211200	3	NYLOC NUT 3/4 UNC
36	R102094	1	TURN CYLINDER WIRE GUARD PIVOT ACCESSORY - CURRENT FROM SER. # 132
37	F330400	1	1/4 SAE FLAT WASHER - NON CURRENT UP TO SERIAL # 131
38	F870605	16	BOLT FLANGE HEAD 3/8 - 16 X 5/8 GR5
39	F870606	56	BOLT FLANGE HEAD 3/8 - 16 X 3/4 GR5
40	KB11216	2	IGUS BUSHING - 0.625 I.D. x 0.75 LG.
41	4133645	1	INNER RACE
42	R100325	1	TURN CYLINDER TOP CAP
43	R500012	1	GRIPPER TURN CYLINDER
44	R500129	4	RETROFIT GRIPPER TONG ASSEMBLY FRONT
45	R500130	4	RETROFIT GRIPPER TONG ASSEMBLY REAR
46	R500131	1	RETROFIT GRIPPER TONG ASSEMBLY CENTRE FRONT
47	R500132	1	RETROFIT GRIPPER TONG ASSEMBLY CENTRE REAR
48	B100811	1	GRIPPER HEAD TENSIONER
49	CM00122	1	ROD END MALE 3/4 L.H.
50	CM00121	1	ROD END MALE 3/4 R.H.
51	F221250	1	HEX JAM NUT - 3/4 UNF
52	F221260	1	HEX JAM NUT - 3/4-16 UNF L.H.
53	B101466	4	GRIPPER CYLINDER SHIM
54	R102093	1	TURN CYLINDER WIRE GUARD ACCESSORY - CURRENT FROM SER. # 132



Brouwer 4000 Sod Harvester Gripper Pivot Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	6-6-070120	2	FITTING - STRAIGHT THREAD O-RING CONNECTOR - SAE 37° (JIC) FLARE-TWIN
2	6-6-070220	2	NO. 6 TUBE TO NO. 6 "O" RING 90° ELBOW
3	B100899	1	SLEWING RING MODIFICATION
4	B101714	1	COUNTER BALANCE GRIPPER BULKHEAD PLATE - CURRENT FROM SERIAL #78
	B100595	1	BULKHEAD GRIPPER PLATE - NON CURRENT UP TO SERIAL #77
5	B300118	1	GRIPPER HEAD MOUNTING BRACKET
6	B300199	1	GRIPPER PIVOT
7	B500177	1	ARM PIVOT ADJUSTER
8	F020612	4	CARRIAGE BOLT - 3/8 UNC x 1 1/4
9	F040520	2	5/16-18 UNC X 2 GR 8 - CURRENT FROM SERIAL #78
10	F040612	2	BOLT - 3/8 UNC x 1 1/4 Gr 8
11	F210500	2	NUT-5/16 UNC NYLOC - CURRENT FROM SERIAL #78
12	F210600	6	HEX LOCK NUT - 3/8 -16 UNC
13	F230600	6	NUT - 3/8-16 - CURRENT FROM SERIAL #32
14	F230800	2	HEX NUT - 1/2 -20 UNF - ZINC PLATED
15	F330500	2	5/16 SAE WASHER - CURRENT FROM SERIAL #78
16	F330600	8	FLAT WASHER SAE 3/8
17	F330800	2	1/2 SAE FLAT WASHER
18	F560614	6	FERRY CAP SCREW 3/8-16 UNC x 1.50 LG. - CURRENT FROM SERIAL #32
	F860616	6	LOW SOC HD CAP - 3/8-16 x 1.75 LG. - NON CURRENT UP TO SERIAL #31
19	F960506	2	DOWEL PIN - 5/16 X 0.75 LG. - CURRENT FROM SERIAL #32
20	F960606	2	DOWEL PIN 3/8 X 0.75 LG. - CURRENT FROM SERIAL #32
21	G8508020	6	SERRATED FLANGE HEX HEAD M8 x 1.25 x 20 mm LG.
22	KB11016	2	1.00 IN. SPHERICAL PLAIN BEARING
23	KH20222	2	COUNTER BALLANCE VALVE SPOOL - CURRENT FROM SERIAL #78
24	KH20312	1	AL BODY - CNTER BALANCE VALVES (EURO LW GRIPPER) - CURRENT FROM SERIAL #78



Brouwer 4000 Sod Harvester Gripper Tong Assemblies

Gripper Tong Assembly - Front

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.
4	R100955	1	PIVOT SHAFT
5	R300139	3	GRASPING TONG WELDMENT
6	R300140	1	GRASPING TONG W/ NUT WELDMENT

Gripper Tong Assembly - Rear

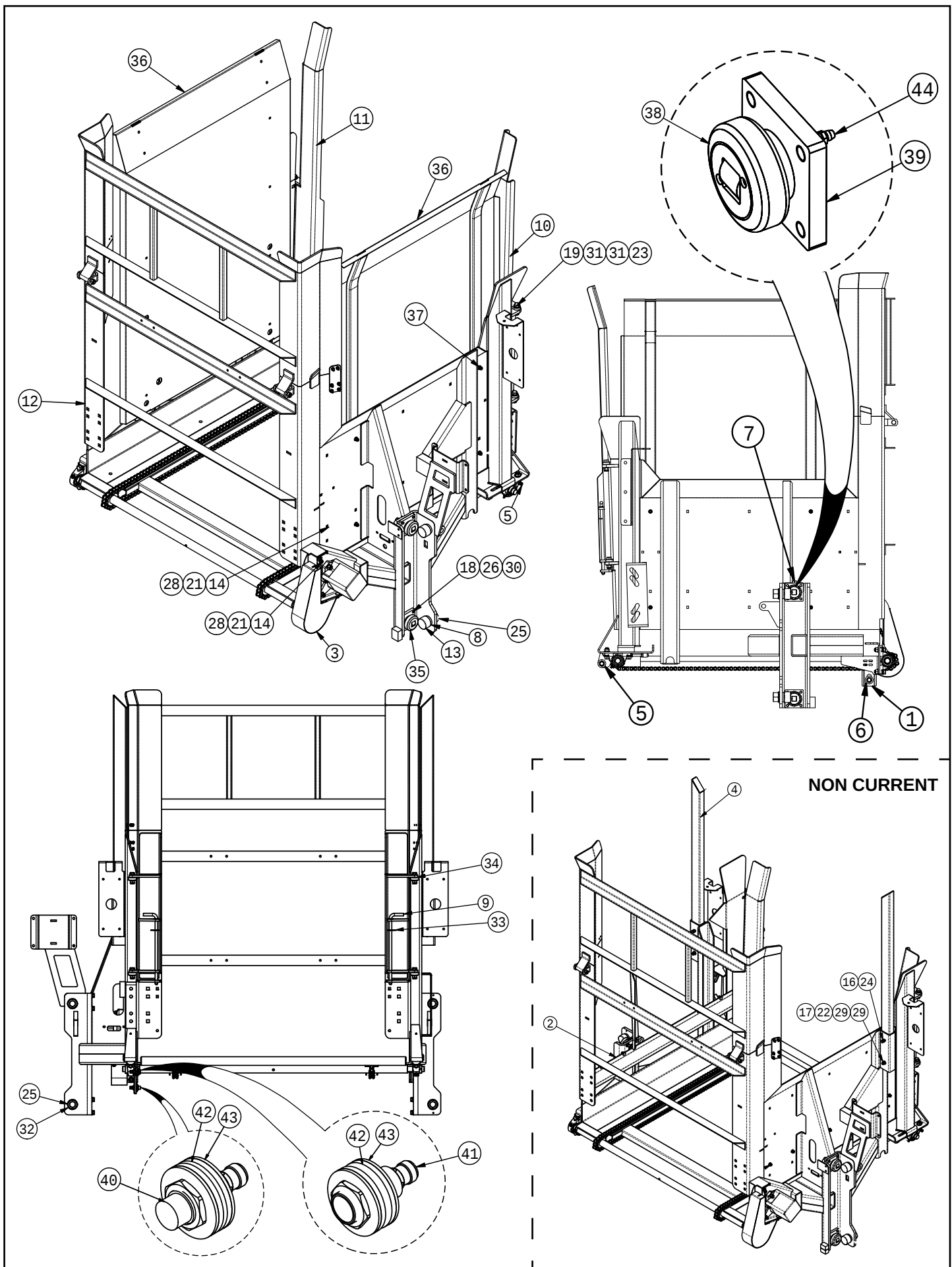
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
2	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
3	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
4	R100955	1	PIVOT SHAFT
5	R300139	3	GRASPING TONG WELDMENT
6	R300140	1	GRASPING TONG W/ NUT WELDMENT

Gripper Tong Assembly - Centre Front

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.
7	R100955	1	PIVOT SHAFT
8	R300139	3	GRASPING TONG WELDMENT
9	R300140	1	GRASPING TONG W/ NUT WELDMENT

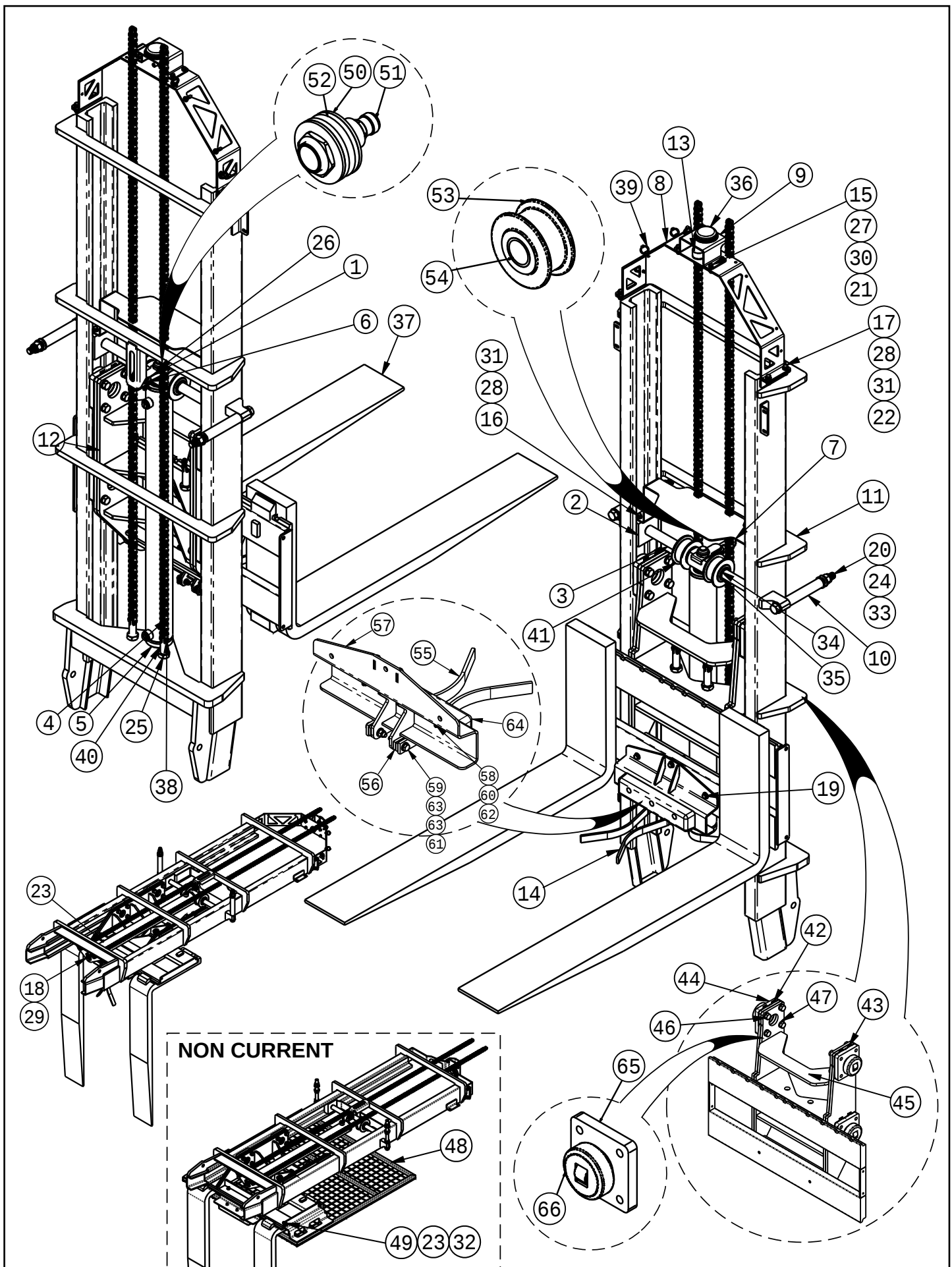
Gripper Tong Assembly - Centre Rear

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.
7	R100955	1	PIVOT SHAFT
8	R300139	3	GRASPING TONG WELDMENT
9	R300140	1	GRASPING TONG W/ NUT WELDMENT



Brouwer 4000 Sod Harvester Pallet Dispenser Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	A100859	1	SENSOR MOUNTING BRACKET
2	A100971	2	SKID DEFLECTOR 3/4 IN. OFFSET NON CURRENT UP TO SERIAL # 32
3	A300156	1	PALLET DISPENSER CHAIN GUARD
4	A300288	2	PALLET GUIDE TUBE NON CURRENT UP TO SERIAL # 32
5	A500228	1	PROXIMITY SENSOR 18 MM ASSEMBLY
6	A500229	1	PROXIMITY SENSOR LONG RANGE 18 MM ASSEMBLY
7	B100780	1	CARRIER BEARING SHIM 24 GA.
8	B101002	4	PALLET INJECTOR CAM FOLLOWER SPACER
9	B300150	2	PALLET INJECTOR REAR DOOR PIN
10	B300151	1	PALLET INJECTOR REAR DOOR LH (48 IN. WIDE PALLET)
	B300318	1	PALLET INJECTOR REAR DOOR LH (1.0 M WIDE PALLET)
11	B300152	1	PALLET INJECTOR REAR DOOR RH (48 IN. WIDE PALLET)
	B300319	1	PALLET INJECTOR REAR DOOR RH (1.0 M WIDE PALLET)
12	B500033	1	PALLET DISPENSER SUB-ASSEMBLY
13	B8015	4	CAM FOLLOWER 2.00
14	F020506	3	BOLT - 5/16 UNC x 3/4 Lg CARRIAGE
15	F040406	2	BOLT 1/4 UNC x 3/4 Gr 8
16	F040606	2	BOLT 3/8 UNC X 3/4 Gr 8 NON CURRENT UP TO SERIAL # 32
17	F040626	2	BOLT 3/8 UNC X 2 3/4 Gr 8 NON CURRENT UP TO SERIAL # 32
18	F040714	16	BOLT - 7/16 UNC x 1 1/2 Gr 8
19	F040816	4	BOLT - 1/2 UNC X 1 3/4 Gr 8
20	F210400	2	1/4-20 UNC NYLOC NUT
21	F210500	11	NUT-5/16 UNC NYLOC
22	F210600	2	HEX LOCK NUT - 3/8-16 UNC NON CURRENT UP TO SERIAL # 32
23	F210800	4	NUT-1/2 UNC NYLOC
24	F230600	2	NUT - 3/8-16 NON CURRENT UP TO SERIAL # 32
25	F231858	4	HEX NUT - 1 1/8 UNF GR 8
26	F310700	16	LOCK WASHER - 7/16
27	F330400	2	1/4 SAE FLAT WASHER
28	F330500	19	5/16 SAE WASHER
29	F330600	4	FLAT WASHER SAE 3/8 NON CURRENT UP TO SERIAL # 32
30	F330700	16	7/16 SAE FLAT WASHER
31	F330800	8	1/2 SAE FLAT WASHER
32	F8054	4	NORD LOCK WASHER SET 27 mm
33	F940118	2	HITCH PIN CLIP 1 9/16 IN. OAL 3/8 TO 1/2 SHAFT
34	KB11608	4	FLANGED BUSHING 0.50 I.D. x 0.625 O.D. x 0.625 LG.
35	R500026	4	COMBINATION ROLLER ASSEMBLY
36	B300237	2	PALLET INJECTOR GUIDE CURRENT FROM SERIAL # 33
	B300255	4	PALLET INJECTOR GUIDE SPACER (NOT SHOWN - 1.0 M WIDE PALLET ONLY)
37	F040512	8	BOLT 5/16-18 UNC x 1 1/4 Gr 8 CURRENT FROM SERIAL # 33
38	KB10010	4	COMBINATION BEARING ROLLER
39	R300070	4	BEARING PLATE WELDMENT
40	KE10174	1	INDUCTIVE PROXIMITY SWITCH LONG RANGE
41	KE10155	1	INDUCTIVE PROXIMITY SWITCH
42	KS60013	2	NEOPRENE WASHER 3/4 x 1.50
43	A101493	2	WASHER 18mm PROXIMITY SENSOR
44	KX90031	4	GREASE FITTING - STRAIGHT - METRIC (M6.0 x 1.0) 41mm LG

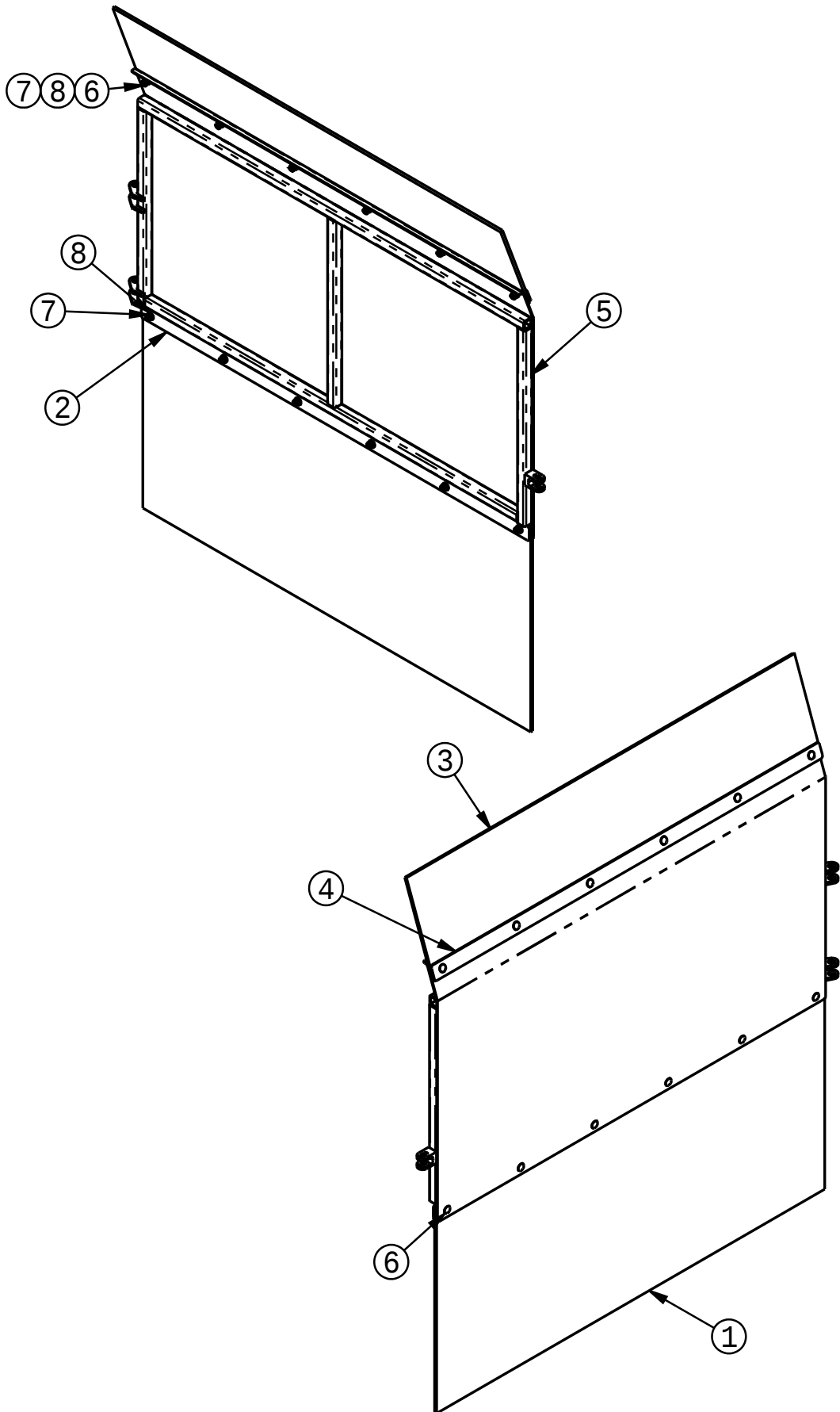


Brouwer 4000 Sod Harvester Mast Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	A100789	1	MAST DOWN PROXIMITY TARGET
2	A101057	2	GUIDE WHEEL CHAIN SHEAVE BAR
3	A101058	1	LIFT SHEAVE CROSS BAR
4	A101480	2	LIFT CHAIN
5	A500003	1	MAST CYLINDER
6	A500228	1	PROXIMITY SENSOR 18 MM ASSEMBLY
7	B100566	1	MAST CROSS BAR
8	B100571	1	MAST SENSOR AND LIGHT MOUNTING BAR
9	B100572	1	MAST SENSOR CAP
10	B101666	2	MAST BOLT COLLAR
11	B300093	1	MAST WELDMENT 4000
12	B500106	1	FORK CARRIAGE ASSEMBLY
13	B500210	1	ULTRASONIC SENSOR WITH DECAL
14	B500221	1	PALLET CENTRING BRACKET - CURRENT
	B500119	1	PALLET BUMPER ASS. - NON CURRENT
15	F040410	4	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
16	F040506	4	BOLT - 5/16 UNC x 3/4 Gr 8
17	F040510	4	BOLT - 5/16 UNC x 1.0 Gr 8
18	F040614	4	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
19	F040622	3	BOLT - 3/8 UNC x 2 1/4 Gr 8
20	F0412100	2	HEX HD BOLT - 3/4 UNC x 10.00 LG. GR 8
21	F210400	4	1/4-20 UNC NYLOC NUT
22	F210500	4	NUT-5/16 UNC NYLOC
23	F210600	3	HEX LOCK NUT - 3/8 -16 UNC
24	F211200	2	NYLOC NUT 3/4 UNC
25	F221450	12	HEX JAM NUT - 7/8 UNF
26	F271650	1	1.00-14 UNF NYLOC JAM NUT
27	F310400	4	WASHER - 1/4 LOCK
28	F310500	8	LOCK WASHER - 5/16
29	F310600	4	LOCK WASHER - 3/8
30	F330400	8	1/4 SAE FLAT WASHER
31	F330500	12	5/16 SAE WASHER
32	F330600	6	FLAT WASHER SAE 3/8
33	F331200	6	SAE FLAT WASHER - 3/4 IN.
34	F382400	4	SHIM WASHER - 1.25 I.D.
35	F820125	2	EXTERNAL RETAINING RING - 1.25
36	KE70045	1	TELEMATICS GSM/GPS ANTENNA (OPTIONAL)
37	KF99748	2	HOOK FORK CLASS II 7.00 WIDE 48 IN.
38	KX20009	4	CHAIN LINK CONNECTOR SET
39	KX99150	4	CABLE TIE 8.0 IN. W/ FIR TREE 0.25
40	T100466	4	LEAF CHAIN ANCHOR
41	T500008	2	LIFT CHAIN SHEAVE
42	A101066	8	MAST BEARING SHIM 20 GA.
43	A101067	8	MAST BEARING SHIM 26 GA.
44	A500269	4	MAST BEARING ASSEMBLY
45	B300109	1	FORK CARRIAGE WELDMENT
46	F041020	16	BOLT - HEX HEAD 5/8 UNC x 2.00 GR.8
47	F311000	16	LOCKWASHER - 5/8
48	B300169	1	FORK FRAME PILLING WALL - NON CURRENT
49	F040612	4	BOLT - 3/8 UNC X 1 1/4 GR.8 - NON CURRENT
50	A101493	2	WASHER 18 mm PROXIMITY SENSOR
51	KE10155	1	INDUCTIVE PROXIMITY SWITCH
52	KS60013	2	NEOPRENE WASHER 3/4 x 1.50
53	T100149	2	LIFT CHAIN SHEAVE
54	KB12813	2	SHEAVE BUSHING
55	B101414	2	PALLET CENTRING SPRING
57	B300242	1	PALLET CENTRING BRACKET
58	F040414	3	BOLT - 1/4 UNC x 1 1/2 Gr 8
59	F040516	4	BOLT - 5/16 UNC x 1 3/4 Gr 8
60	F210400	3	1/4-20 UNC NYLOC NUT
61	F210500	4	NUT-5/16 UNC NYLOC
62	F330400	3	1/4 SAE FLAT WASHER
63	F330500	8	5/16 SAE WASHER
64	KS60018	1	RUBBER BUMPER 12.0 LG.
65	A300188	4	BEARING MOUNTING PLATE WELDMENT
66	KB10001	4	COMBINATION BEARING ROLLER

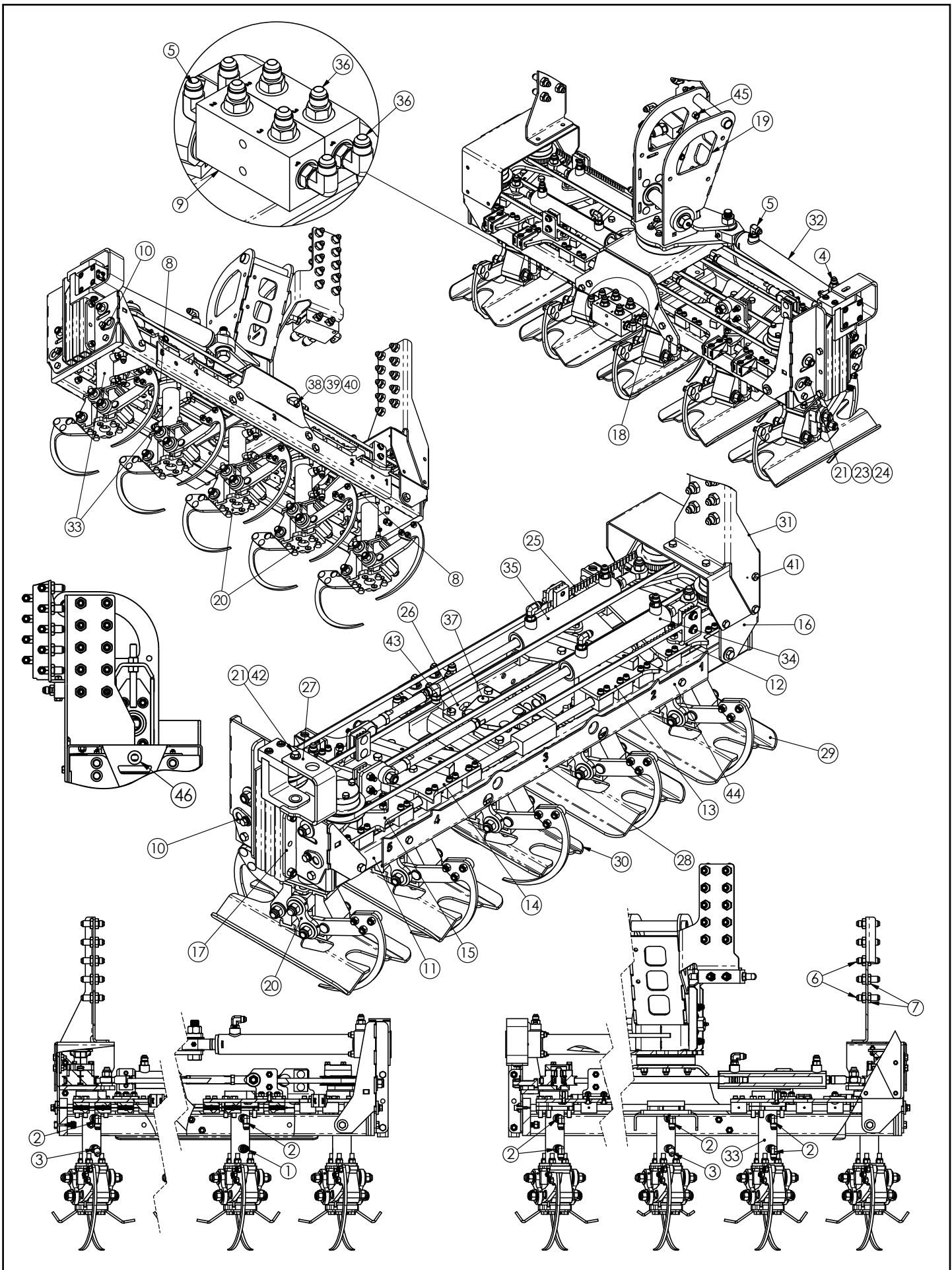
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**Brouwer 4000 Sod Harvester
Piling Wall Assembly**

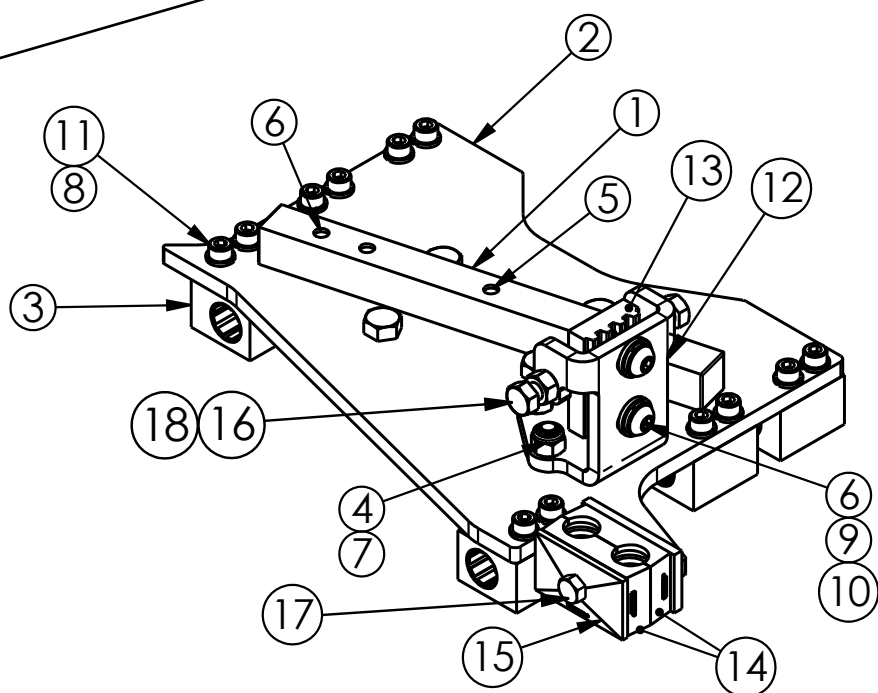
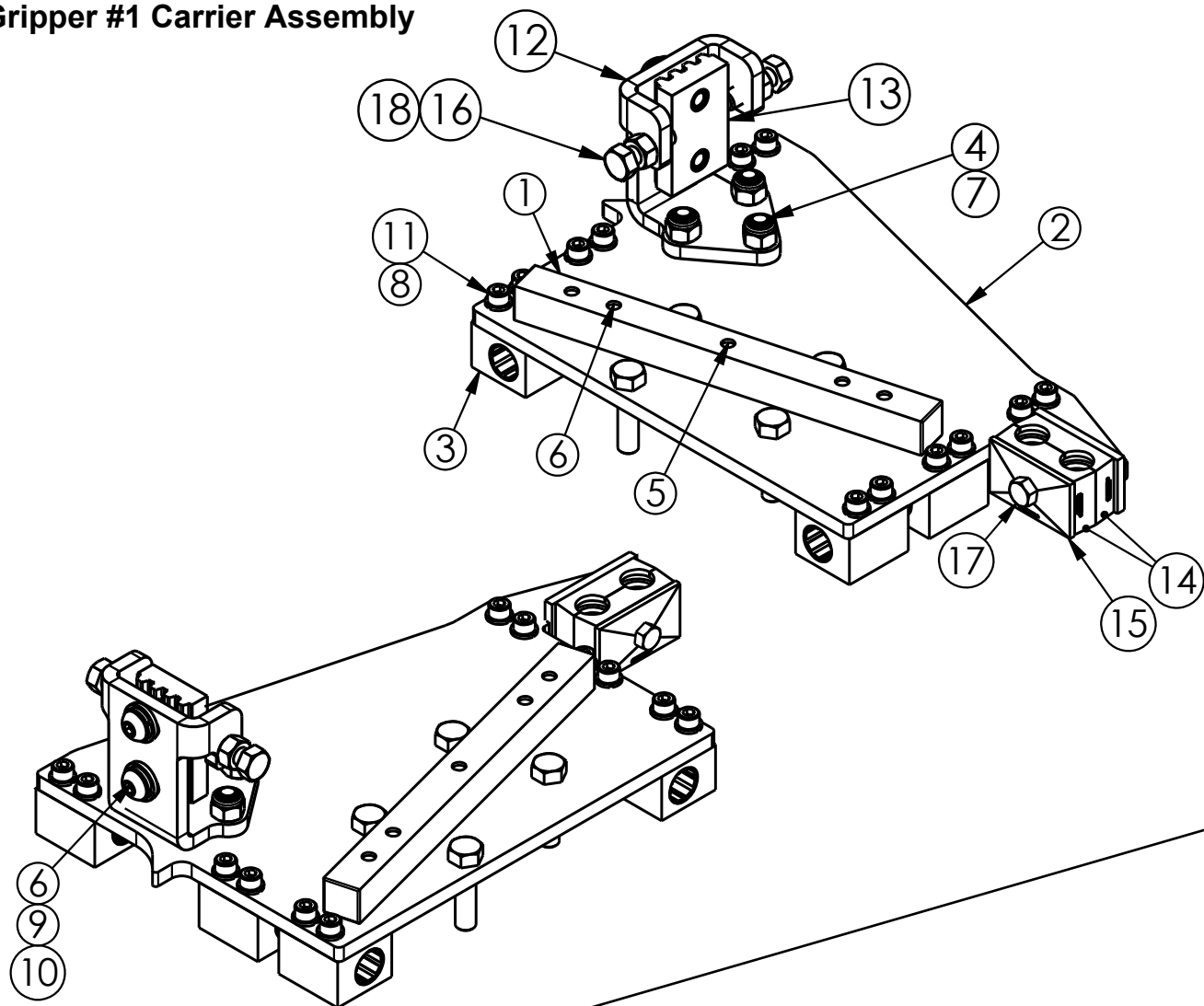
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100472	1	PILING WALL RUBBER PANEL
2	B100614	1	BACKING PLATE RUBBER PILING WALL
3	B101678	1	UPPER PILING WALL RUBBER PANEL - CURRENT
4	B101679	1	UPPER BACKING PLATE RUBBER PILING WALL - CURRENT
5	B300058	1	PILING WALL LH
	B300059	1	PILING WALL RH
6	F020510	12	5/16-18 X 1 LG CARRAGE BOLT
7	F210500	12	NUT-5/16 UNC NYLOC
8	F330500	12	5/16 SAE WASHER



Brouwer 4000 Sod Harvester Euro Gripper Head Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	6-4-070320	1	FITTING 45 DEG #6 JIC/ #4 ORB - CURRENT FROM SERIAL # 130
	6-4-07012	1	FITTING - #4 ORB MALE TO #6 JIC MALE STRAIGHT - NON CURRENT
2	6-4-070220	7	FITTING 90 ° #6 JIC TO #4 ORB
3	6-4-070320	2	FITTING 45 DEG #6 JIC/ #4 ORB
4	6-6-070120	3	FITTING - STRAIGHT THREAD O-RING CONNECTOR - SAE 37° (JIC) FLARE-TWIN
5	6-6-070220	3	NO. 6 TUBE TO NO. 6 "O" RING 90° ELBOW
6	6-6-070601	10	#6-6 BULKHEAD UNION (3/8 TUBE)
7	6-070118	10	#6 BULKHEAD NUT (3/8 TUBE)
8	B101350	4	CYLINDER SPACER
9	B101651	2	HYD MANIFOLD - EURO GRIPPER
10	B300218	4	GUIDE ROD GRIPPER HEAD
11	B300220	1	GRIPPER CARRIER FRAME W/A
12	B500203	1	GRIPPER #1 CARRIER ASSEMBLY
13	B500204	1	GRIPPER #2 CARRIER ASSEMBLY
14	B500205	1	GRIPPER #4 CARRIER ASSEMBLY
15	B500206	1	GRIPPER #5 CARRIER ASSEMBLY
16	B500208	1	BELT DRIVE SENSOR MOUNT (SEE PG. 6-23, 6-24)
17	B500209	1	BELT DRIVE IDLER / ROTATE ASSY (SEE PG. 6-23, 6-24)
18	B500326	1	B4000 LOWER ROTATOR ASSY (STATIONARY) (SEE PG. 6-25, 6-26)
19	B500327	1	B4000 UPPER ROTATOR ASSY (MOVEABLE) (SEE PG. 6-25, 6-26)
20	B500484	5	EURO GRIPPER BLOCK ASSY (GUIDE ROD VERSION) - CURRENT FROM S/N 95 (SEE PG. 6-27, 6-28)
	R500227	5	GRIPPER UNIT ASSEMBLY- NON CURRENT (SEE PG. 6-27, 6-28)
21	F040510	5	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
22	F210808	5	NUT-1/2 UNC NYLOC Gr 8
23	F310500	4	LOCK WASHER - 5/16
24	F330500	4	5/16 SAE WASHER
25	KD61122	2	GATES 8x12mm 280 Tooth BELT
26	R101526	2	#3 GRIPPER SUPPORT PLATE
27	R102093	1	TURN CYLINDER WIRE GUARD
28	R101641	1	GUAGE BAR
29	R101642	4	16 IN. SOD ROLL BASKET
30	R101643	1	#3 SOD BASKET - EURO GRIPPER
31	R101925	1	INTERMEDIATE BULKHEAD BRACKET
32	R500012IR	1	GRIPPER TURN CYLINDER W INTERNAL RESISTOR
33	R500085	5	LW GRIPPER CYLINDER
34	R500316	1	CYLINDER 1-5 ASSEMBLY
35	R500317	1	CYLINDER 2-4 ASSEMBLY
36	6-6-070320	4	FITTING 45 DEG #6 JIC/ #4 ORB - CURRENT FROM SERIAL # 130
37	F020612	4	CARRIAGE BOLT - 3/8 UNC x 1 1/4
38	F040406	1	BOLT 1/4 UNC x 3/4 Gr 8 - CURRENT
39	F210400	1	1/4-20 UNC NYLOC NUT - CURRENT
40	KM60023	1	CLAMP - RUBBER INSULATED 1.25 (32mm) I.D. x 1/2 WIDE - CURRENT
41	F040506	8	BOLT - 5/16 UNC x 3/4 Gr 8
42	R102094	1	TURN CYLINDER WIRE GAURD PIVOT - CURRENT FROM SERIAL # 130
43	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
44	F040620	2	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. Gr 8
45	F210608	26	NUT - 3/8 UNC NYLOC. Gr 8
46	KE10072	1	GROMMET RUBBER 1.06 OD 3/16 GROOVE 7/16 W

Gripper #1 Carrier Assembly



Gripper #2 Carrier Assembly

Brouwer 4000 Sod Harvester
Euro Gripper #1 & 2 Carrier Assembly

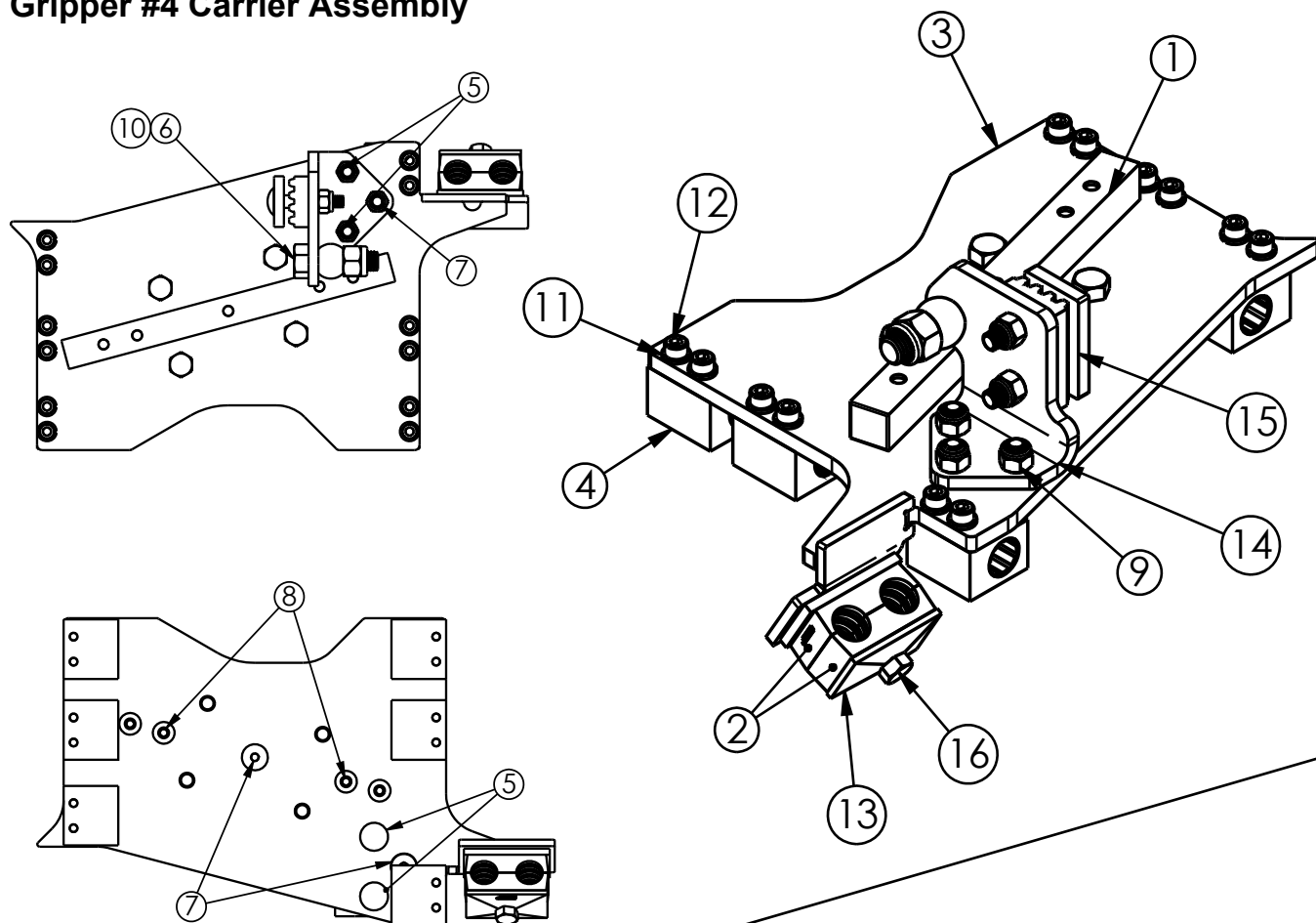
Gripper #1 Carrier Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101334	1	STIFFENER BAR
2	B300221	1	#1 GRIPPER SUPPORT PLATE W/A
3	B500202	6	SLIDER BUSHING ASSEMBLY
4	F020510	3	5/16-18 X 1 LG CARRAGE BOLT
5	F120510	1	FLAT HD HEX SOC - 5/16 x 1.00
6	F160510	6	BUTTON HD HEX SOC-5/16 UNC X 1.00
7	F210508	3	NUT - 5/16 UNC NYLOC Gr 8
8	F310408	12	WASHER - 1/4 LOCK Gr 8
9	F310508	2	LOCK WASHER - 5/16 Gr 8
10	F330508	2	WASHER - 5/16 SAE Gr 8
11	G6206025	12	SOC HD M6 x 1.00 x 25 mm LG. ST STL
12	R101639	1	BELT ANCHOR
13	R500321	1	CLAMP BLOCK INSERT ASSEMBLY
14	B101842	2	3/8, 5000 PSI, HOSE CLAMP
15	KH63005	1	COVER PLATE - TWIN SERIES HOSE CLAMP #2
16	F040510	2	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8 - CURRENT FROM S/N 130
17	F040514	1	BOLT - 5/16 - 18 UNC x 1 1/2 Gr 8 - CURRENT FROM S/N 130
18	F230500	2	HEX NUT - 5/16-18 UNC - CURRENT FROM S/N 130

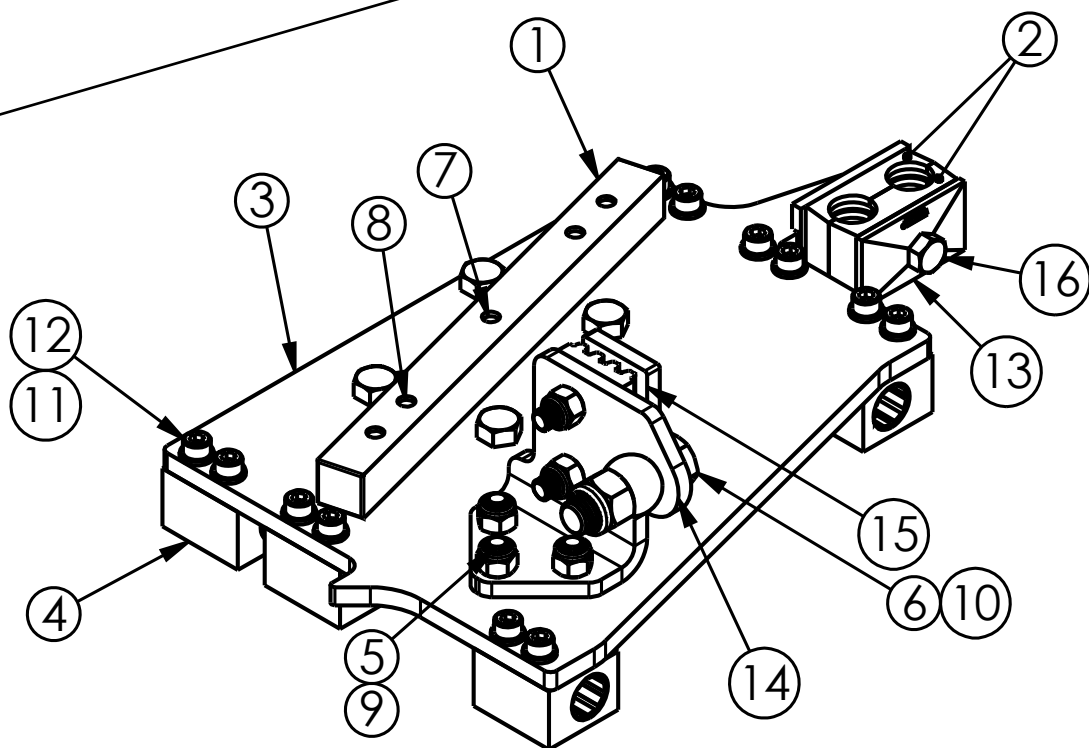
Gripper #2 Carrier Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101334	1	STIFFENER BAR
2	B300222	1	#2 GRIPPER SUPPORT PLATE W/A
3	B500202	6	SLIDER BUSHING ASSEMBLY
4	F020510	3	5/16-18 X 1 LG CARRAGE BOLT
5	F120510	1	FLAT HD HEX SOC - 5/16 x 1.00
6	F160510	6	BUTTON HD HEX SOC-5/16 UNC X 1.00
7	F210508	3	NUT - 5/16 UNC NYLOC Gr 8
8	F310408	12	WASHER - 1/4 LOCK Gr 8
9	F310508	2	LOCK WASHER - 5/16 Gr 8
10	F330508	2	WASHER - 5/16 SAE Gr 8
11	G6206025	12	SOC HD M6 x 1.00 x 25 mm LG. ST STL
12	R101639	1	BELT ANCHOR
13	R500321	1	CLAMP BLOCK INSERT ASSEMBLY
14	B101842	2	3/8, 5000 PSI, HOSE CLAMP
15	KH63005	1	COVER PLATE - TWIN SERIES HOSE CLAMP #2
16	F040510	2	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8 - CURRENT FROM S/N 130
17	F040514	1	BOLT - 5/16 - 18 UNC x 1 1/2 Gr 8 - CURRENT FROM S/N 130
18	F230500	2	HEX NUT - 5/16-18 UNC - CURRENT FROM S/N 130

Gripper #4 Carrier Assembly



Gripper #5 Carrier Assembly



Brouwer 4000 Sod Harvester Euro Gripper #4 & 5 Carrier Assembly

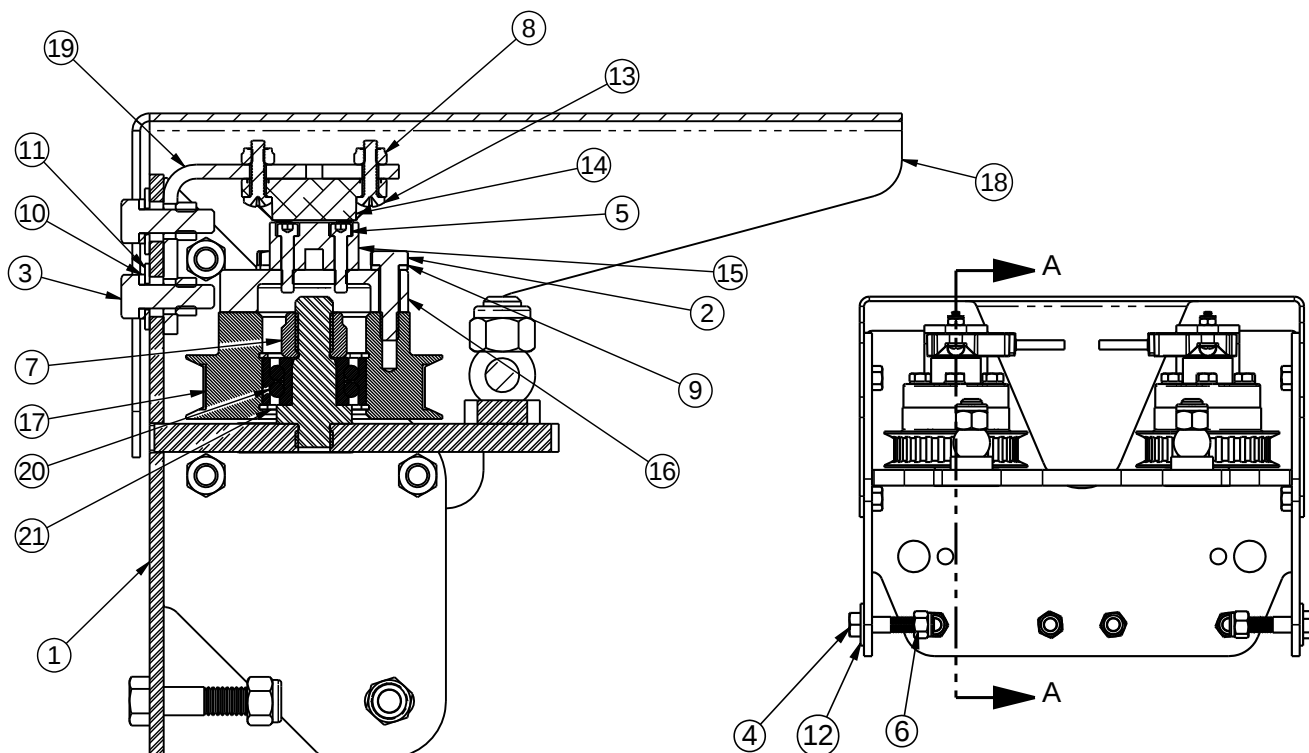
Gripper #4 Carrier Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101334	1	STIFFENER BAR
2	B101842	2	3/8, 5000 PSI, HOSE CLAMP - CURRENT FROM S/N 130
3	B300223	1	#4 GRIPPER SUPPORT PLATE W/A
4	B500202	6	SLIDER BUSHING ASSEMBLY
5	F020510	2	5/16-18 X 1 LG CARRAGE BOLT
6	F040816	1	BOLT - 1/2 UNC X 1 3/4 Gr 8 - CURRENT
7	F120510	2	FLAT HD HEX SOC - 5/16 x 1.00
8	F160510	4	BUTTON HD HEX SOC-5/16 UNC X 1.00
9	F210508	3	NUT - 5/16 UNC NYLOC Gr 8
10	F210808	1	NUT-1/2 UNC NYLOC Gr 8
11	F310408	12	WASHER - 1/4 LOCK Gr 8
12	G6206025	12	SOC HD M6 x 1.00 x 25 mm LG. ST STL
13	KH63005	1	COVER PLATE - TWIN SERIES HOSE CLAMP #2
14	R101704	1	BELT / CYLINDER ANCHOR LH
15	R500329	1	1/2 CLAMP PLATE KIT
16	F040514	1	BOLT - 5/16 -18 UNC x 1 1/2 Gr 8 - CURRENT FROM S/N 130

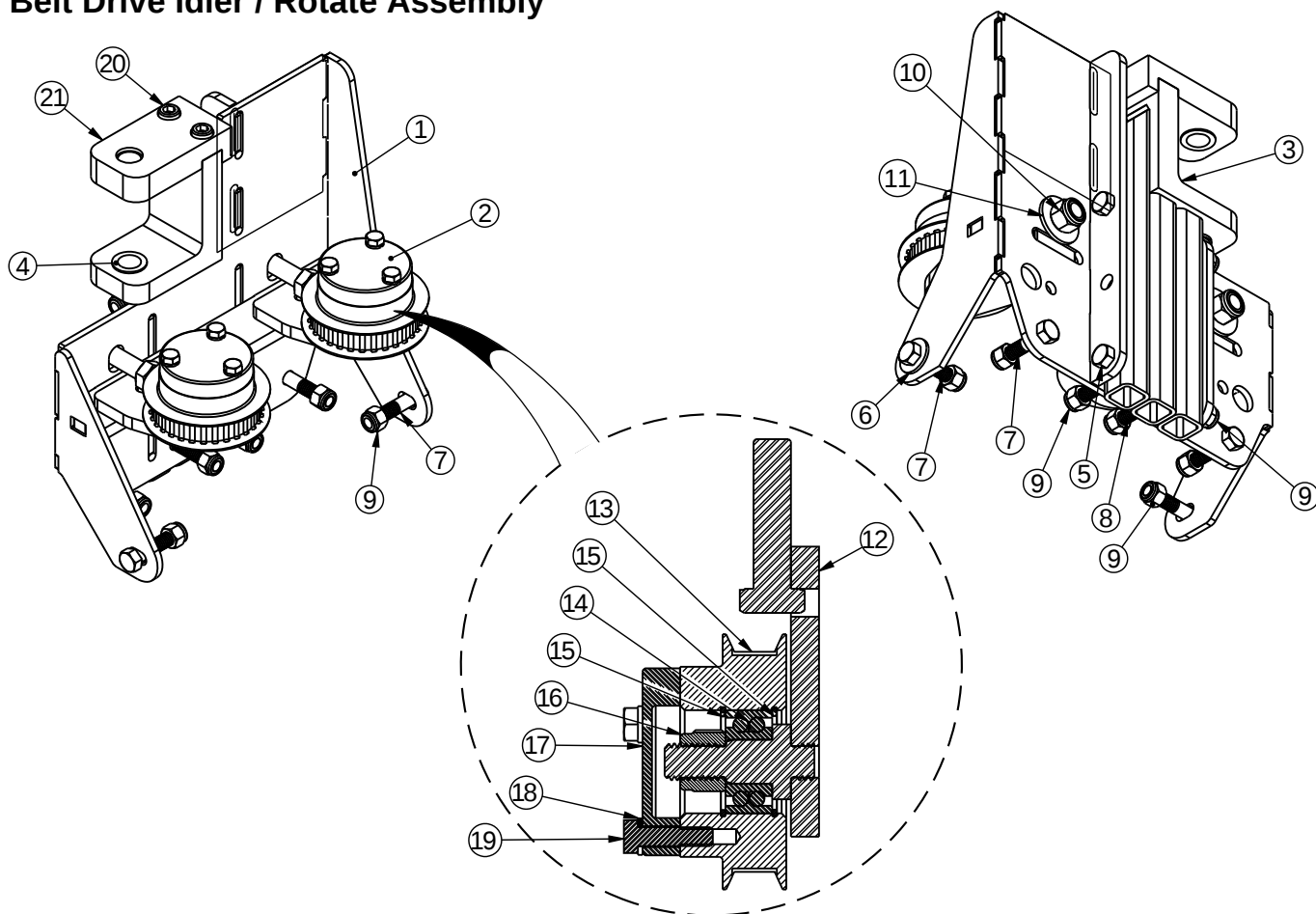
Gripper #5 Carrier Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101334	1	STIFFENER BAR
2	B101842	2	3/8, 5000 PSI, HOSE CLAMP - CURRENT FROM S/N 130
3	B300224	1	#5 GRIPPER SUPPORT PLATE W/A
4	B500202	6	SLIDER BUSHING ASSEMBLY
5	F020510	3	5/16-18 X 1 LG CARRAGE BOLT
6	F040816	1	BOLT - 1/2 UNC X 1 3/4 Gr 8 - CURRENT
7	F120510	1	FLAT HD HEX SOC - 5/16 x 1.00
8	F160510	4	BUTTON HD HEX SOC-5/16 UNC X 1.00
9	F210508	3	NUT - 5/16 UNC NYLOC Gr 8
10	F210808	1	NUT-1/2 UNC NYLOC Gr 8
11	F310408	12	WASHER - 1/4 LOCK Gr 8
12	G6206025	12	SOC HD M6 x 1.00 x 25 mm LG. ST STL
13	KH63005	1	COVER PLATE - TWIN SERIES HOSE CLAMP #2
14	R101704	1	BELT / CYLINDER ANCHOR LH
15	R500329	1	1/2 CLAMP PLATE KIT
16	F040514	1	BOLT - 5/16 -18 UNC x 1 1/2 Gr 8 - CURRENT FROM S/N 130

Belt Drive Sensor Mount



Belt Drive Idler / Rotate Assembly



Brouwer 4000 Sod Harvester

Euro Gripper - Belt Drive Sensor Mount & Belt Drive Idler / Rotate Assembly

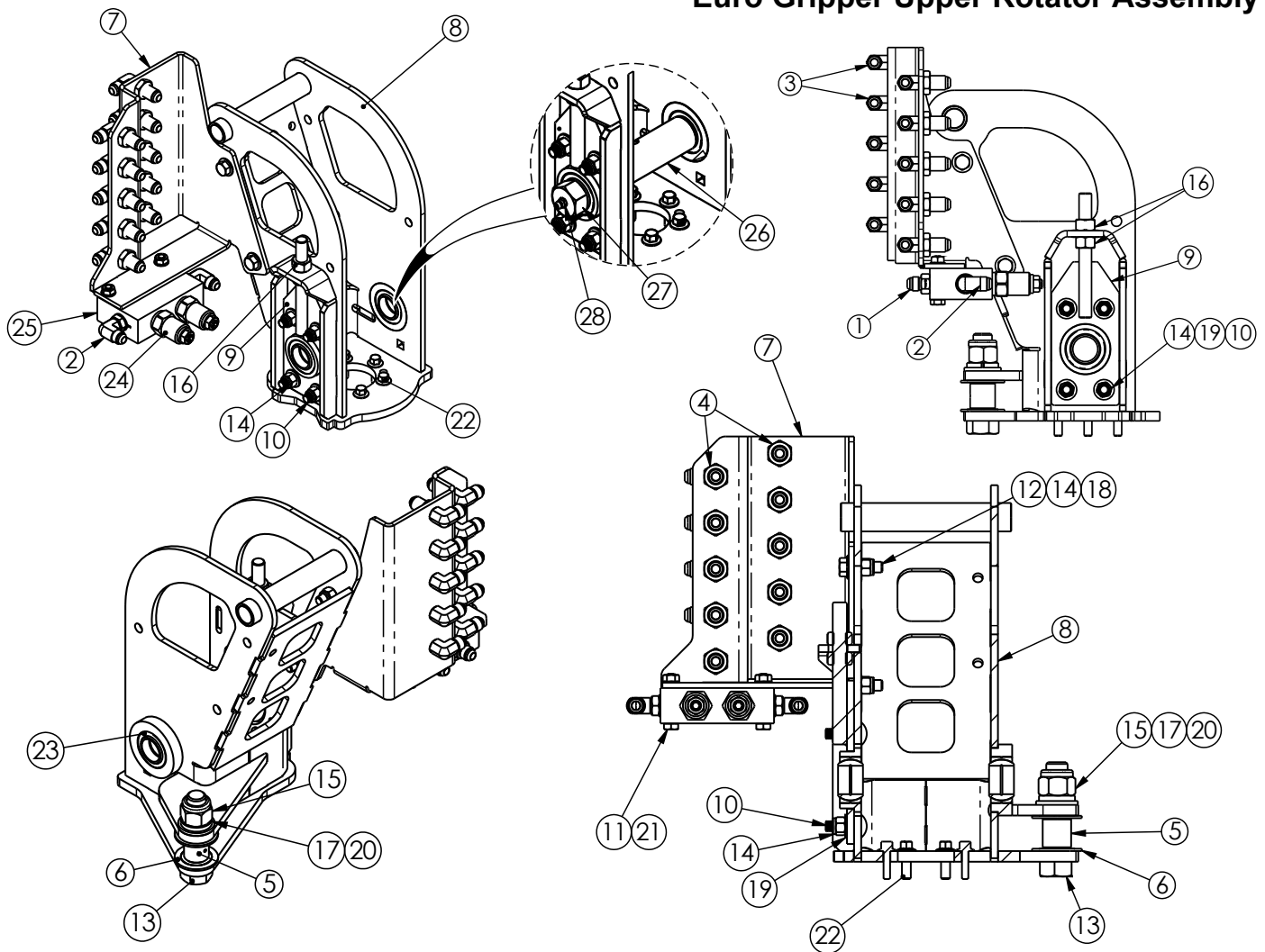
Belt Drive Sensor Mount - B500208

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B300217	1	BELT DRIVE SENSOR MOUNT W/A
2	F040410	6	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
3	F040510	4	BOLT - 5/16 UNC x 1.0 Gr 8
4	F040616	6	BOLT - 3/8 UNC x 1 3/4 Gr 8
5	F180106	4	#8 - 32 UNC SOC HD CAP SCREW x 0.75 Lg
6	F210608	6	NUT - 3/8 UNC NYLOC Gr 8
7	F210808	4	NUT-1/2 UNC NYLOC Gr 8
8	F280200	4	HEX NYLOC - 10-24 UNC ST.ST.
9	F310408	6	WASHER - 1/4 LOCK Gr 8
10	F310508	4	LOCK WASHER - 5/16 Gr 8
11	F320508	4	FLAT WASHER - 5/16 Gr 8
12	F320608	2	WASHER - 3/8 Gr 8
13	F580206	4	#10-24 UNC X 3/4 PHMS S.S.
14	KE10254	2	TURCK ROTARY SENSOR Ri-QR14-X2
15	KE10306	2	TURCK SENSOR ELEMENT P2-RI-QR14
16	R101628	2	SPROCKET CAP / SENSOR PIN
17	R101629	2	IDLER SPROCKET
18	R101833	1	GRIPPER CARRIER END GUARD
19	R300351	2	SENSOR MOUNTING BRACKET
20	KB15202	2	DBL ROW RLLR BRNG, SEALED 15 mmID x 35 mmOD x 15.9 mmTHK
21	F815505	2	RETAINING RING INTERNAL 35mm

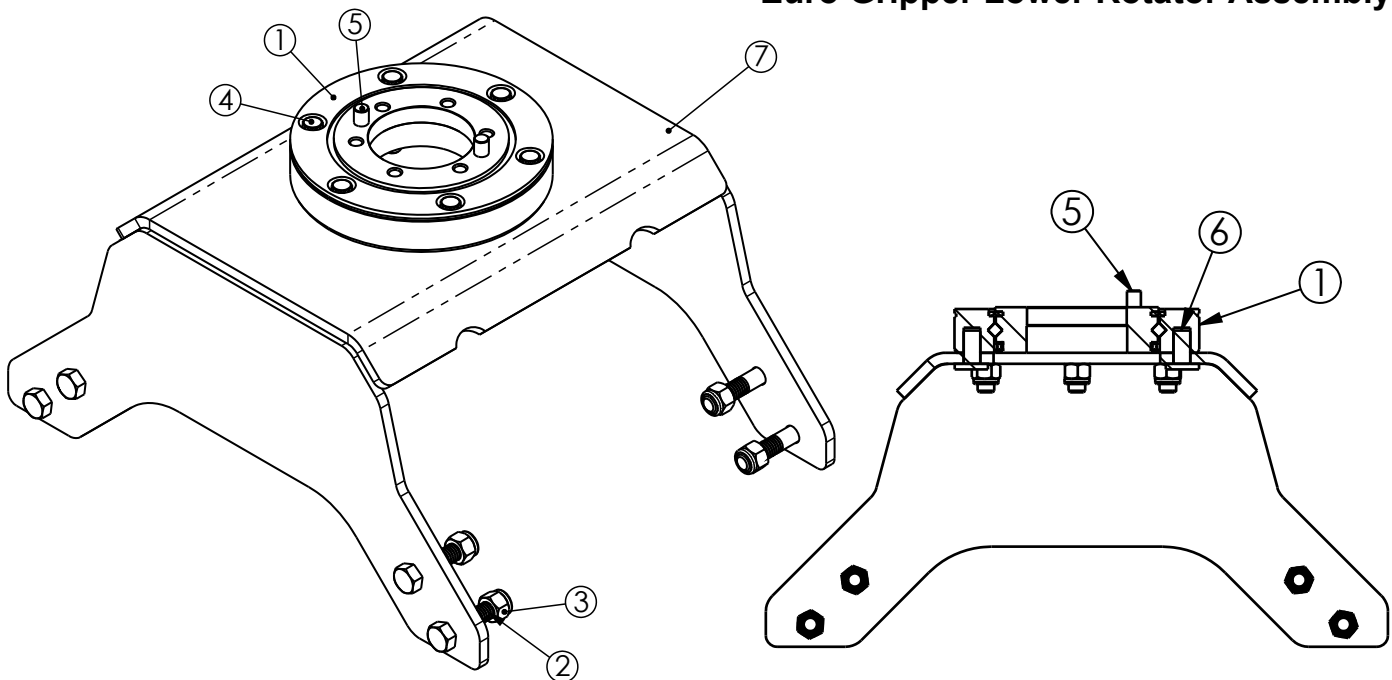
Belt Drive Idler / Rotate Assembly - B500209

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B300219	1	BELT DRIVE IDLER MOUNT W/A
2	R500310	2	BELT TENSIONER ASSEM (INCLUDES ITEMS 12-19)
3	B300196	1	CYLINDER BARREL SUPPORT W/A
4	KB11216	2	IGUS BUSHING - 0.625 I.D. x 0.75 LG.
5	F040640	2	BOLT - 3/8 UNC x 4.0 Gr 8
6	F320608	1	WASHER - 3/8 Gr 8
7	F040616	4	BOLT - 3/8 UNC x 1 3/4 Gr 8
8	F120616	2	BOLT - 3/8 UNC x 1 3/4 FLAT HD SOC
9	F210608	8	NUT - 3/8 UNC NYLOC Gr 8
10	F210808	2	NUT-1/2 UNC NYLOC Gr 8
11	F320808	2	WASHER - 1/2 GR 8
12	R300312	1	BELT DRIVE TENSIONER W/A
13	R101629	1	IDLER SPROCKET
14	KB15202	1	DBL ROW RLLR BRNG, SEALED 15 mmID x 35 mmOD x 15.9 mmTHK
15	F815505	2	RETAINING RING INTERNAL 35mm
16	F210808	1	NUT-1/2 UNC NYLOC Gr.8
17	R101646	1	SPROCKET CAP
18	F310408	3	WASHER - 1/4 LOCK Gr 8
19	F040410	3	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
20	F180616	2	SOC HD CAP - 3/8 UNC x 1 3/4 LG.
21	R100325	1	TURN CYLINDER TOP CAP

Euro Gripper Upper Rotator Assembly



Euro Gripper Lower Rotator Assembly



Brouwer 4000 Sod Harvester Euro Gripper Upper & Lower Rotator Assembly

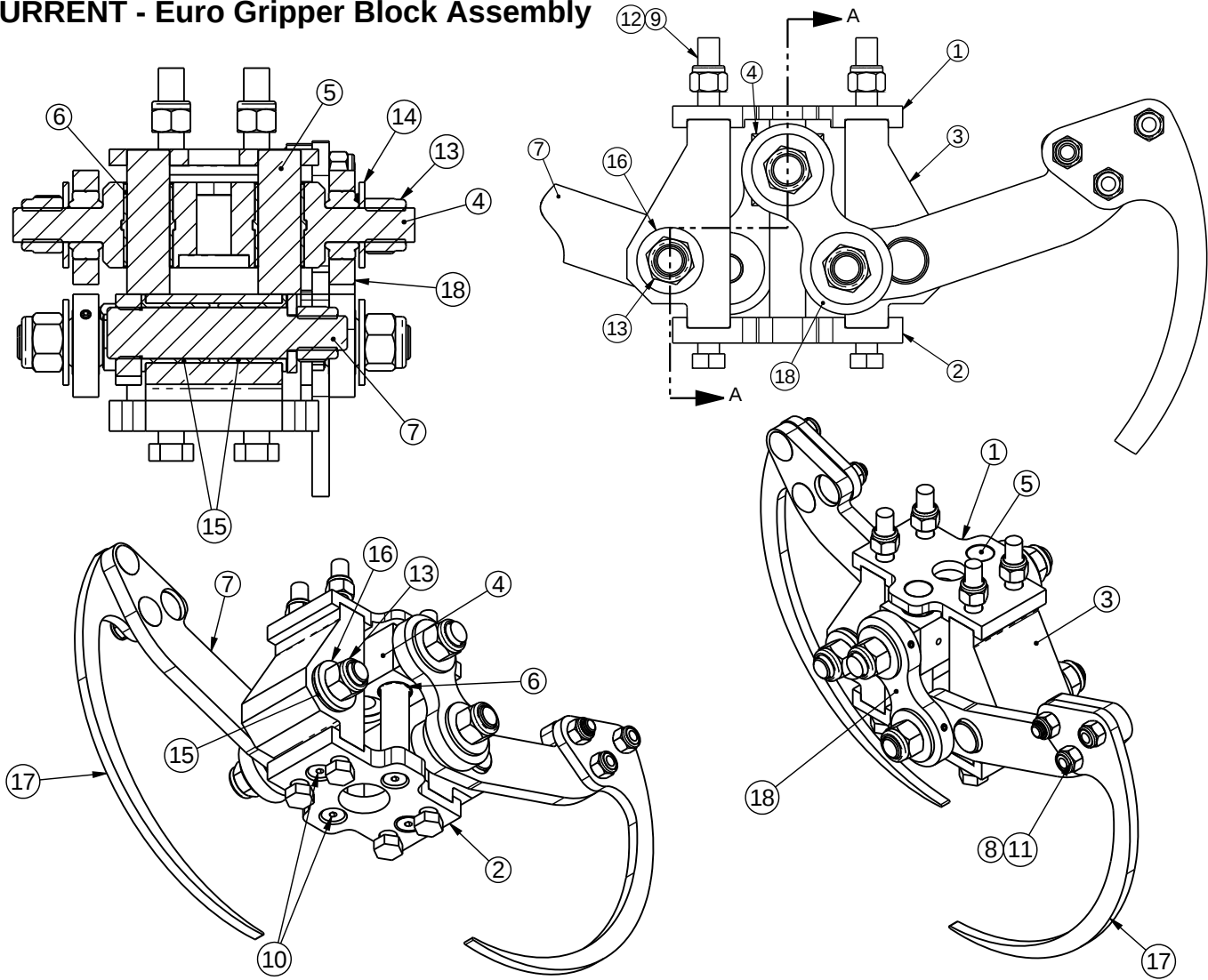
Upper Rotator Assembly – B500327

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	6-6-070120	2	FITTING - STRAIGHT THREAD O-RING CONNECTOR - SAE 37° (JIC) FLARE-TWIN
2	6-6-070220	2	NO. 6 TUBE TO NO. 6 "O" RING 90° ELBOW
3	6-6-070701	10	#6-6 BULKHEAD UNION ELBOW 90° (3/8 TUBE) - CURRENT
	6-6-070801	10	FITTING - 45° BULKHEAD ELBOW UNION TUBE - SAE 37° (JIC) FLARE-TWIN - NON CURRENT
4	6-070118	10	#6 BULKHEAD NUT (3/8 TUBE)
5	4133645	1	INNER RACE
6	4134564	2	THRUST WASHER
7	B101846	1	EURO MAIN BULKHEAD - CURRENT FROM SERIAL # 130
	B101155	1	MAIN GRIPPER BULKHEAD PLATE - NON CURRENT UP TO SERIAL # 129
8	B300166	1	B4000 LW GRIPPER PIVOT W/A
9	B500177	1	ARM PIVOT ADJUSTER
10	F020612	4	CARRIAGE BOLT - 3/8 UNC x 1 1/4
11	F040516	2	BOLT - 5/16 UNC x 1 3/4 Gr 8
12	F040612	2	BOLT - 3/8 UNC x 1 1/4 Gr 8 - CURRENT FROM SERIAL # 130
13	F041234	1	HEX BOLT 3/4 -10 UNC x 3.50 LG. GR 8 - CURRENT FROM SERIAL # 130
	F041232	1	BOLT - 3/4 UNC x 3 1/4 GR 8 - NON CURRENT UP TO SERIAL # 129
14	F210608	6	NUT - 3/8 UNC NYLOC Gr 8
15	F211200	1	NYLOC NUT 3/4 UNC - CURRENT FROM SERIAL # 130
	F231200	1	HEX NUT - 3/4 UNC - NON CURRENT UP TO SERIAL # 129
16	F230808	2	HEX NUT - 1/2 UNC - Gr 8
17	F311200	1	LOCK WASHER - 3/4 - CURRENT FROM SERIAL # 130
18	F330600	2	FLAT WASHER SAE 3/8 - CURRENT FROM SERIAL # 130
19	F330608	4	WASHER - 3/8 SAE Gr 8
20	F331200	1	SAE FLAT WASHER - 3/4 IN. - CURRENT FROM SERIAL # 130
21	F840500	2	SERRATED FLANGE NUT 5/16 UNC - CURRENT
22	G8508025	6	FLANGE HEAD HEX SOCKET M8 x 1.25 x 25 mm LG.
23	KB11016	1	1.00 IN. SPHERICAL PLAIN BEARING
24	KH20222	2	COUNTER BALLANCE VALVE SPOOL
25	KH20312	1	AL BODY - COUNTER BALANCE VALVES (EURO LW GRIPPER)
26	B101041	1	ARM SLEEVE
27	B101045	2	PIVOT BOLT
28	KM11400	2	STRAIGHT GREASE FITTING

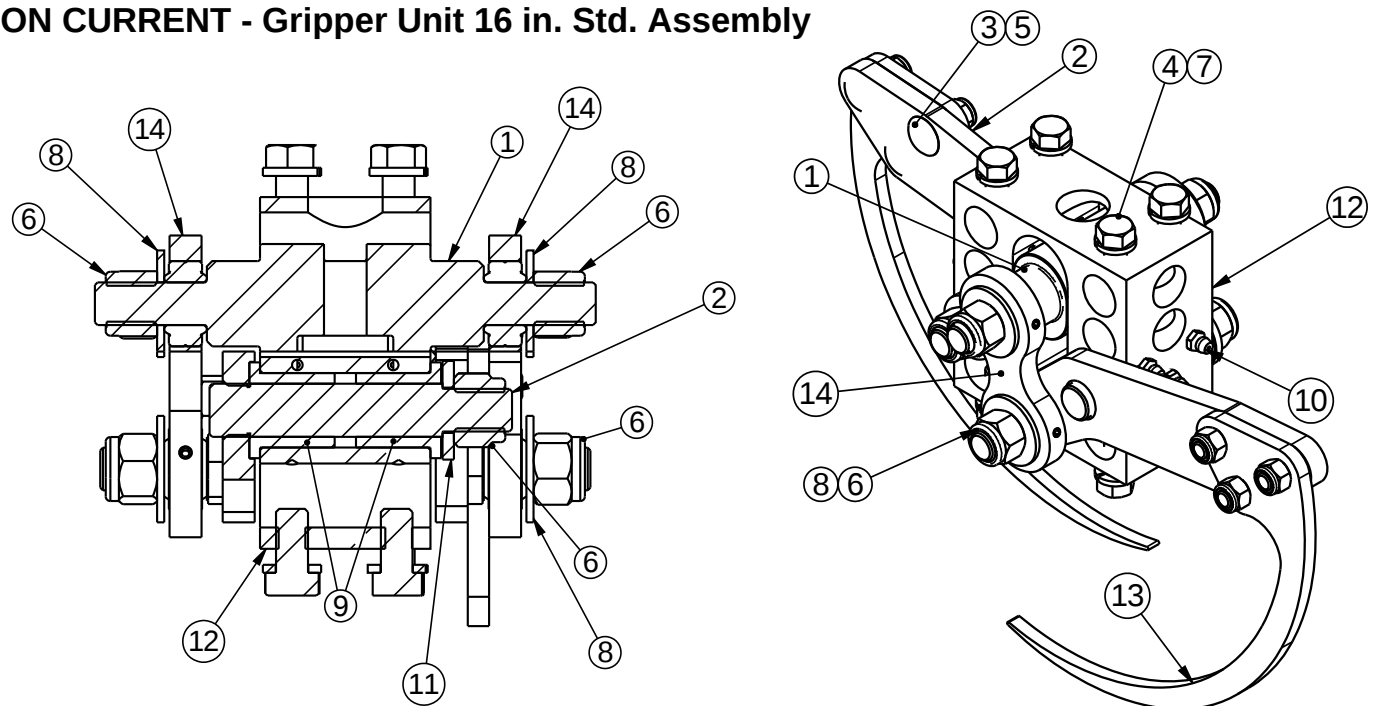
Lower Rotator Assembly – B500326

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100899	1	SLEWING RING (MODIFIED)
2	F040616	8	BOLT - 3/8 UNC x 1 3/4 Gr 8
3	F210608	14	NUT - 3/8 UNC NYLOC Gr 8
4	F560614	6	FERRY CAP SCREW 3/8-16 UNC x 1.50 LG.
5	F960506	2	DOWEL PIN - 5/16 X 0.75 LG.
6	F960606	2	DOWEL PIN 3/8 X 0.75 LG.
7	R300313	1	SLEW RING MOUNT W/A

CURRENT - Euro Gripper Block Assembly



NON CURRENT - Gripper Unit 16 in. Std. Assembly



**Brouwer 4000 Sod Harvester
Euro Gripper Block Assembly**

B500484 - Euro Gripper Block Assembly (Guide Rod Version) - CURRENT from S/N 95

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101726	1	GRIPPER TOP PLATE
2	B101727	1	GRIPPER BOTTOM PLATE
3	B101728	2	GRIPPER PIVOT BLOCK
4	B101729	1	SLIDER BLOCK
5	B101824	2	SLIDER GUIDE ROD - IHCP
6	B101826	2	MODIFIED LINEAR BUSHING - 0.625
7	B300320	2	GRIPPER ARM W/A - IGUS VERSION
8	F020510	6	5/16-18 X 1 LG CARRIAGE BOLT
9	F040654	4	HEX BOLT 3/8-16UNC X 5.5 LG
10	F120406	4	FLAT HEAD HEX SOCKET 1/4 -20 UNC x 0.75 LG.
11	F210508	6	NUT - 5/16 UNC NYLOC Gr 8
12	F210600	4	HEX LOCK NUT - 3/8 -16 UNC
13	F210808	6	NUT-1/2 UNC NYLOC Gr 8
14	F320700	4	WASHER - 7/16
15	KB11232	4	FLANGE BUSHING 0.75 ID x 0.875 OD x 1.00 Lg.
16	R100935	2	GRIPPER PIVOT RETAINER
17	R101788	2	THIN GRIPPER HOOK
18	R500228	2	GRIPPER LINK ASSEMBLY

R500227 - Gripper Unit 16 in. Std. Assembly - NON CURRENT up to S/N 94

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101503	1	GRIPPER CROSS BLOCK
2	B300291	2	GRIPPER ARM W/A - GUIDE BLOCK VERSION
3	F020510	6	5/16-18 X 1 LG CARRAGE BOLT
4	F040606	8	BOLT 3/8 UNC X 3/4 . Gr 8
5	F210508	6	NUT - 5/16 UNC NYLOC Gr 8
6	F210808	6	NUT-1/2 UNC NYLOC Gr 8
7	F310608	8	WASHER - 3/8 LOCK Gr 8
8	F320700	4	WASHER - 7/16
9	KB11270	4	OILITE FLANGE BUSHING
10	KM11400	6	STRAIGHT GREASE FITTING
11	R100935	2	GRIPPER PIVOT RETAINER
12	R101271	1	GRIPPER PIVOT GUIDE BLOCK
13	R101788	2	THIN GRIPPER HOOK
14	R500228	2	GRIPPER LINK ASSEMBLY