



BROUWER 4000 SOD HARVESTER



PARTS LIST

Provisional



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**BROUWER
4000 SOD HARVESTER**

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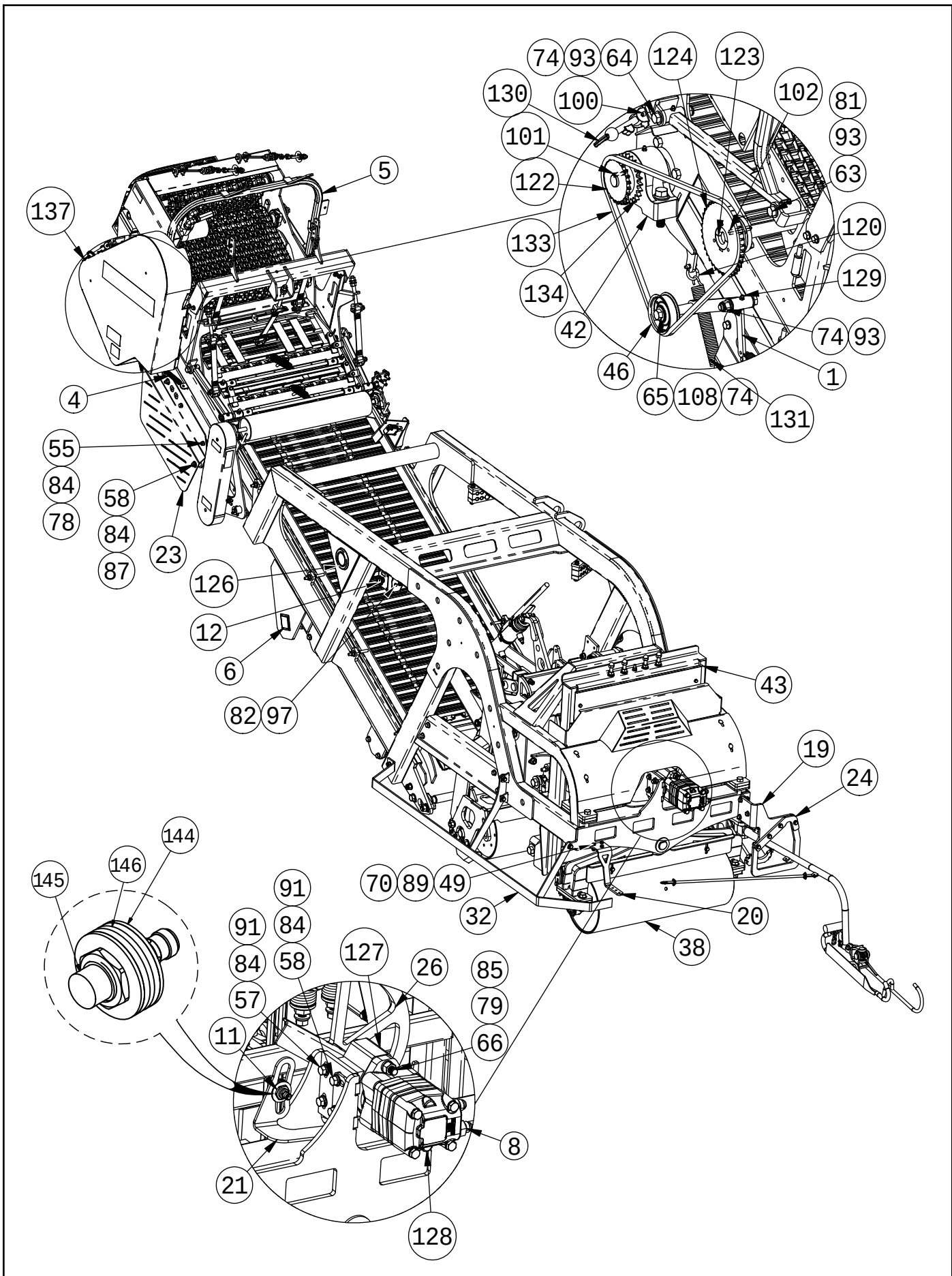
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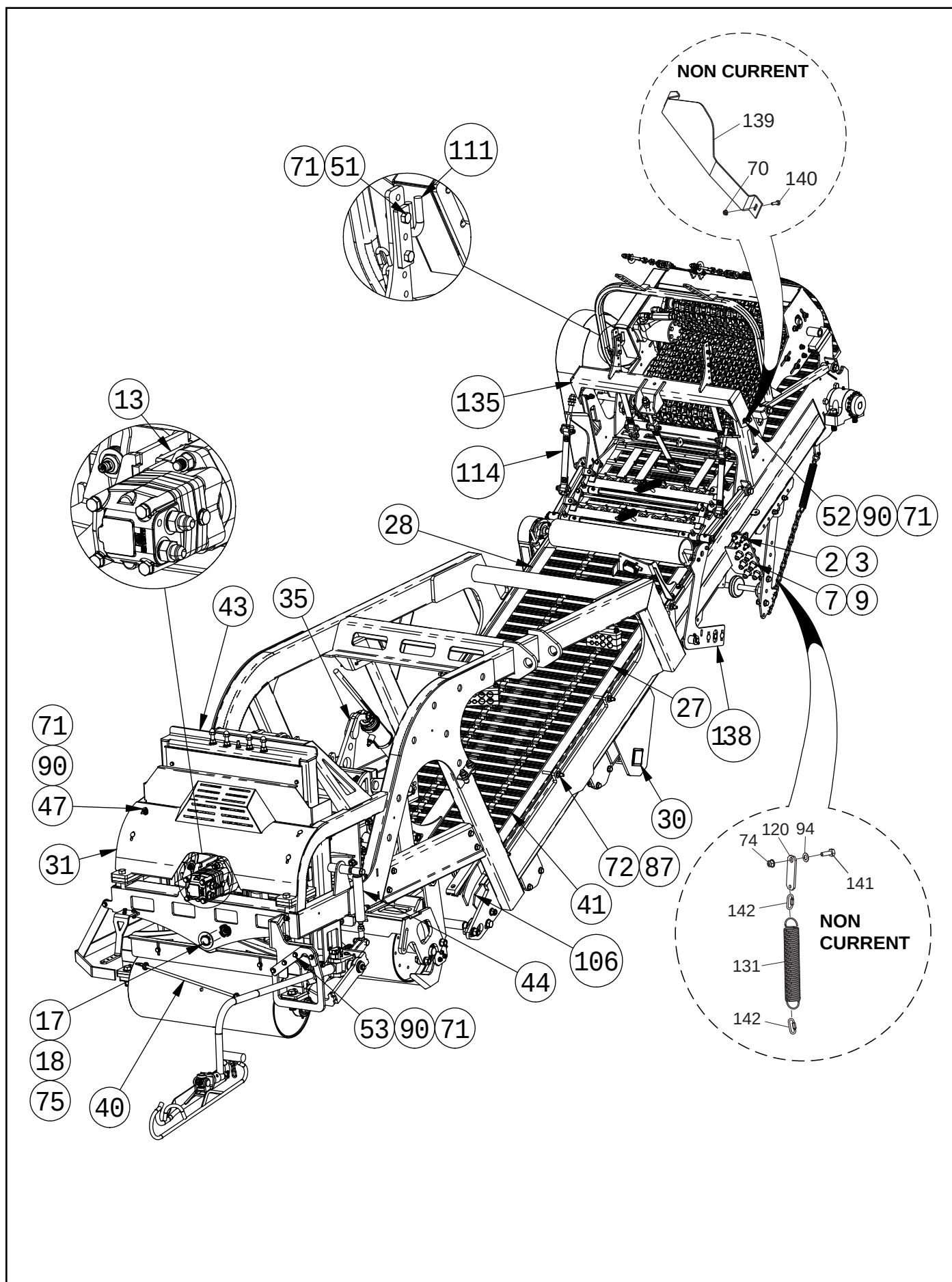
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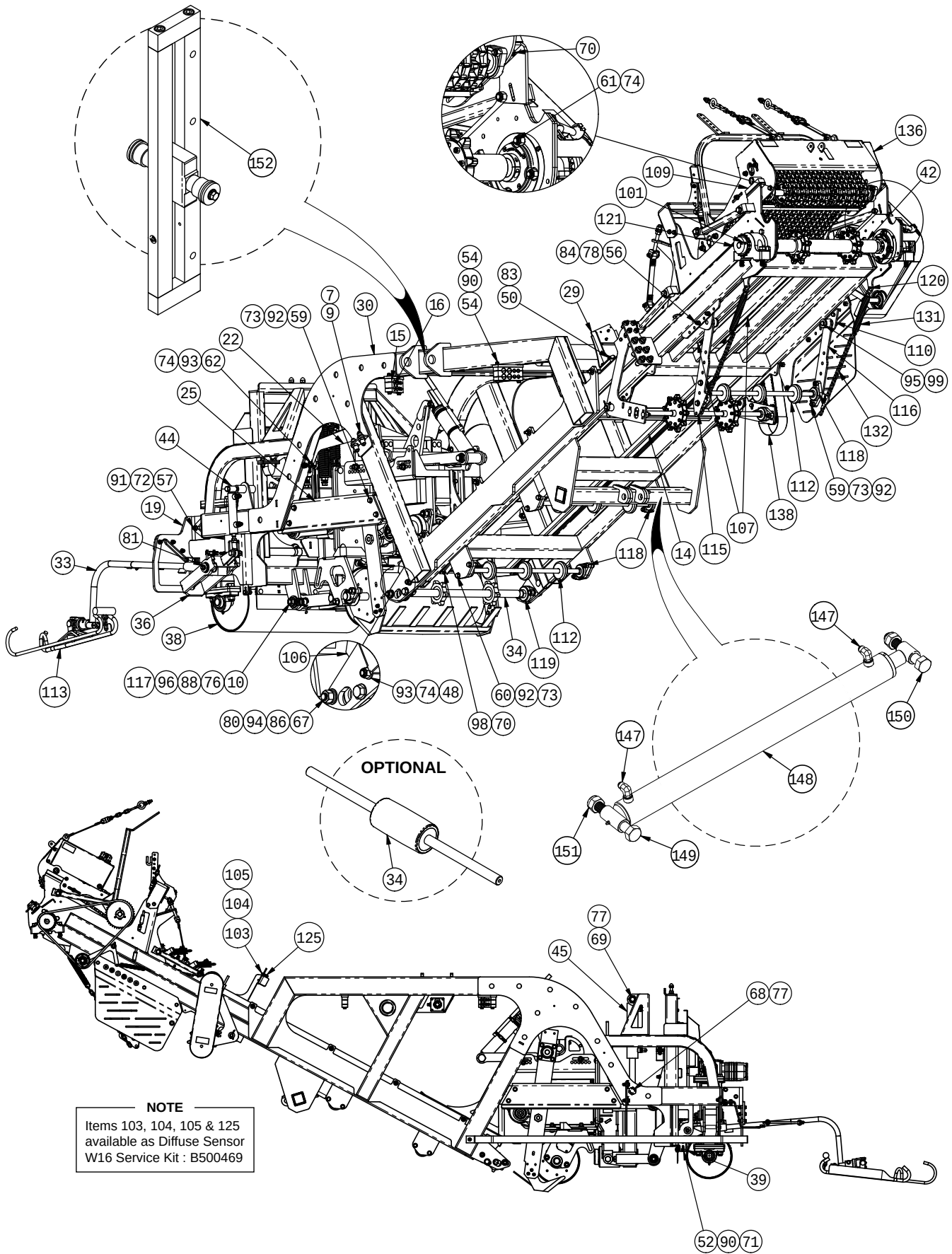
Brouwer 4000 Sod Harvester Conveyor Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001375	1	ROLL UP DRIVE IDLER ARM WELDMENT
2	4-070118	4	FITTING #4 BULKHEAD NUT
3	4-4-070601	4	FITTING 1/4 BULKHEAD UNION
4	41047	1	EXTENSION SPRING 0.0765 WIRE x 6.813
5	4129625	1	ROLLUP TRAY REINF.
	R300034	1	ROLLUP TRAY REINF. 16/18 IN.
6	4134550	2	CAPPLUGS 2 X 2
7	8-070118	8	FITTING - #8 BULKHEAD NUT
8	8-10-070120	2	FITTING - STRAIGHT THREAD O-RING - SAE 37° FLARE
9	8-8-070601	8	FITTING - #8 BULKHEAD STRAIGHT JIC
10	A101179	4	HEAD LINKAGE BOLT
11	A500229	1	PROXIMITY SENSOR LONG RANGE 18 MM ASSEMBLY
12	A500299	1	E-STOP BOX ASSEMBLY
13	B100318	1	OHLA SPACER PLATE
14	B100757	2	MAIN CONVEYOR SLIDER
15	B100801	4	CONVEYOR HOSE CLAMP OUTER
16	B100802	2	CONVEYOR HOSE CLAMP CENTRE
17	B100911	1	FRONT ROLLER PIVOT PIN
18	B100914	1	PIN CAP PIVOTING ROLLER
19	B100917	1	SKI CONSTRA NT BRACKET
20	B100921	1	SKI TENSION BAR
21	B100976	1	CUT OFF CAM PROXIMITY BRACKET
22	B100999	1	HEAD GUIDE PLATE 24 IN.
	B100997	1	HEAD GUIDE PLATE 16 IN.
23	B101142	1	CONVEYOR SIDE SHIELD
24	B101243	1	SKI ARM WEAR BAR
25	B101523	2	CONVEYOR FRAME BRACE STRUT
26	B300047	1	CAM WELDMENT
27	B300089	1	SOD GUIDE 24 IN. LH
	B300119	1	SOD GUIDE WELDMENT 16 IN. LH
28	B300090	1	SOD GUIDE 24 IN. RH
	B300120	1	SOD GUIDE WELDMENT 16 IN.
29	B300092	1	DIFFUSE SENSOR MOUNTING BRACKET WELDMENT
30	B300104	1	24 IN. PIVOTING HEAD WELDMENT
	B300103	1	CONVEYOR WELDMENT 16 IN.
31	B300124	1	CAM AND CUT OFF GUARD 24 IN.
	B300123	1	CAM AND CUT OFF GUARD 16 IN.
32	B300164	1	TOE GUARD
33	B300173	1	SKI ARM 24 IN.
	B300172	1	SKI ARM 16 IN.
34	B300280	1	IDLER SHAFT 24 IN. 1.25 DIA. - CURRENT
	H301033	1	CROWN ROLLER 24 IN. (OPTIONAL)
	H301214	1	IDLER SHAFT 24 IN. - NON CURRENT
	B300279	1	IDLER SHAFT 16 IN. 1.25 DIA. - CURRENT
	H301009	1	CROWN ROLLER 16 IN. (OPTIONAL)
	H301213	1	IDLER SHAFT 16 IN. - NON CURRENT
35	B500081	1	HEAD AND LINKAGE ASSEMBLY 24 IN. (SEE SEC. 2)
	B500080	1	HEAD AND LINKAGE ASSEMBLY 16 IN. (SEE SEC. 2)
36	B500096	1	AUTO-STEER LINKAGE ASSEMBLY (SEE SEC. 4)
37	B500103	1	4000 CONVEYOR HOSE KIT
38	B500123	1	FRONT ROLLER ASSEMBLY 24 IN. (SEE SEC. 2)
	B500122	1	FRONT ROLLER ASSEMBLY 16 IN. (SEE SEC. 2)
39	B500127	1	BLADE REBOUND WHEEL ASSEMBLY 24 IN. (SEE SEC. 2)
	B500126	1	BLADE REBOUND WHEEL ASSEMBLY 16 IN. (SEE SEC. 2)
40	B500182	1	SKI ARM BUNGEE
41	B500223	1	MAIN CONVEYOR BELT ASSEMBLY 24 IN.
	B500222	1	MAIN CONVEYOR BELT ASSEMBLY 16 IN.
42	B500237	1	CONVEYOR DRIVE SHAFT 24 IN. COMPLETE ASSEMBLY (SEE PG. 1-13)
	B500236	1	CONVEYOR DRIVE SHAFT 16 IN. COMPLETE ASSEMBLY (SEE PG. 1-13)
43	B500243	1	CUT OFF ASSEMBLY 24 IN. ADJUSTABLE (SEE SEC. 2)
	B500242	1	CUT OFF FRAME ASSEMBLY 16 IN. ADJUSTABLE (SEE SEC. 2)



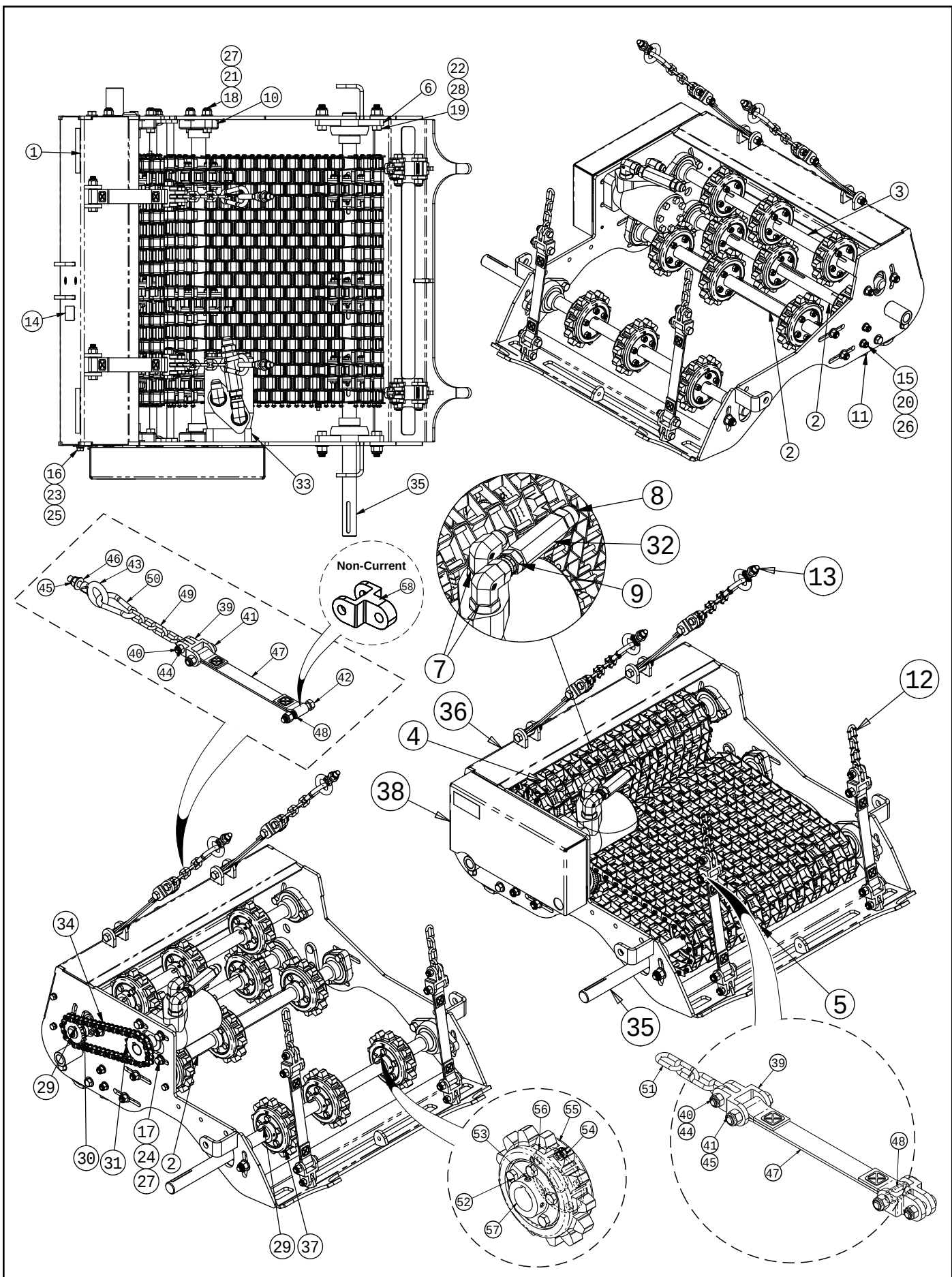
Brouwer 4000 Sod Harvester Conveyor Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
44	B500433	1	SKI-LIFT HYDRAULIC CYLINDER ASSEMBLY
45	B500466	1	HEAD LIFT CYINDER ASSEMBLY
46	D2902	1	BELT IDLER SHEAVE O.D. 2.875
47	F020510	4	5/16-18 X 1 LG CARRAGE BOLT
48	F020814	2	CARRIAGE BOLT 1/2 UNC x 1.1/2 LG
49	F040410	3	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
50	F040506	4	BOLT - 5/16 UNC x 3/4 Gr 8
51	F040510	4	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
52	F040512	11	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8
53	F040514	4	BOLT - 5/16 -18 UNC x 1 1/2 Gr 8
54	F040532	4	HEX BOLT - 5/16 UNC x 3.25 LG. GR 8
55	F040610	3	BOLT - 3/8 UNC x 1.0 Gr 8
56	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
57	F040614	5	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
58	F040616	3	BOLT - 3/8 UNC x 1 3/4 Gr 8
59	F040714	12	BOLT - 7/16 UNC x 1 1/2 Gr 8
60	F040716	8	BOLT - 7/16 UNC x 1 3/4 Gr 8
61	F040816	8	BOLT - 1/2 UNC X 1 3/4 Gr 8
62	F040820	2	BOLT - 1/2 UNC x 2.0 Gr 8
63	F040830	2	BOLT - HEX HEAD 1/2 -UNC x 3.00 LG. GR 8
64	F040832	2	BOLT - HEX HEAD 1/2 UNC x 3.25 LG. GR 8
65	F040840	1	HEX HD BOLT - 1/2-13 UNC x 4.0 GR 8
66	F040844	2	HEX HD BOLT - 1/2-13 UNC x 4-1/2 GR 8
67	F041020	4	BOLT - HEX HEAD 5/8 UNC x 2.00 Gr 8
68	F041650	1	HEX BOLT - 1.00 -8 UNC x 5.00 GR 8
69	F041654	1	HEX BOLT - 1.00 -8 UNC x 5.50 GR 8
70	F210408	34	1/4-20 UNC NYLOC NUT GR 8
71	F210500	28	NUT-5/16 UNC NYLOC
72	F210608	19	NUT - 3/8 UNC NYLOC Gr 8
73	F210700	20	HEX LOCK NUT - 7/16 UNC
74	F210808	16	NUT-1/2 UNC NYLOC Gr 8
75	F210850	1	NUT-1/2 -20 UNF NYLOC
76	F211212	4	FLANGED STOVER LOCK NUT - 3/4 -10
77	F211600	2	NYLOC NUT 1.00 UNC
78	F230608	4	NUT - 3/8 UNC Gr 8
79	F230800	2	HEX NUT - 1/2 UNC - ZINC PLATED
80	F231000	4	HEX NUT 5/8 -11 UNC
81	F270800	4	1/2-20 UNF NYLOC JAM NUT
82	F280100	2	NUT 8-32 UNC NYLON LOCK ST. STL
83	F310500	2	LOCK WASHER - 5/16
84	F310608	12	WASHER - 3/8 LOCK Gr 8
85	F310800	2	LOCK WASHER - 1/2
86	F311008	4	WASHER - 5/8 LOCK Gr 8
87	F320608	17	WASHER - 3/8 Gr 8
88	F321200	4	FLAT WASHER - 3/4
89	F330400	6	1/4 SAE FLAT WASHER
90	F330500	47	5/16 SAE WASHER
91	F330600	10	FLAT WASHER SAE 3/8
92	F330700	28	7/16 SAE FLAT WASHER
93	F330808	13	WASHER-1/2 SAE GR 8
94	F331008	4	WASHER - 5/8 SAE Gr 8
95	F331208	2	WASHER-3/4 SAE GR 8



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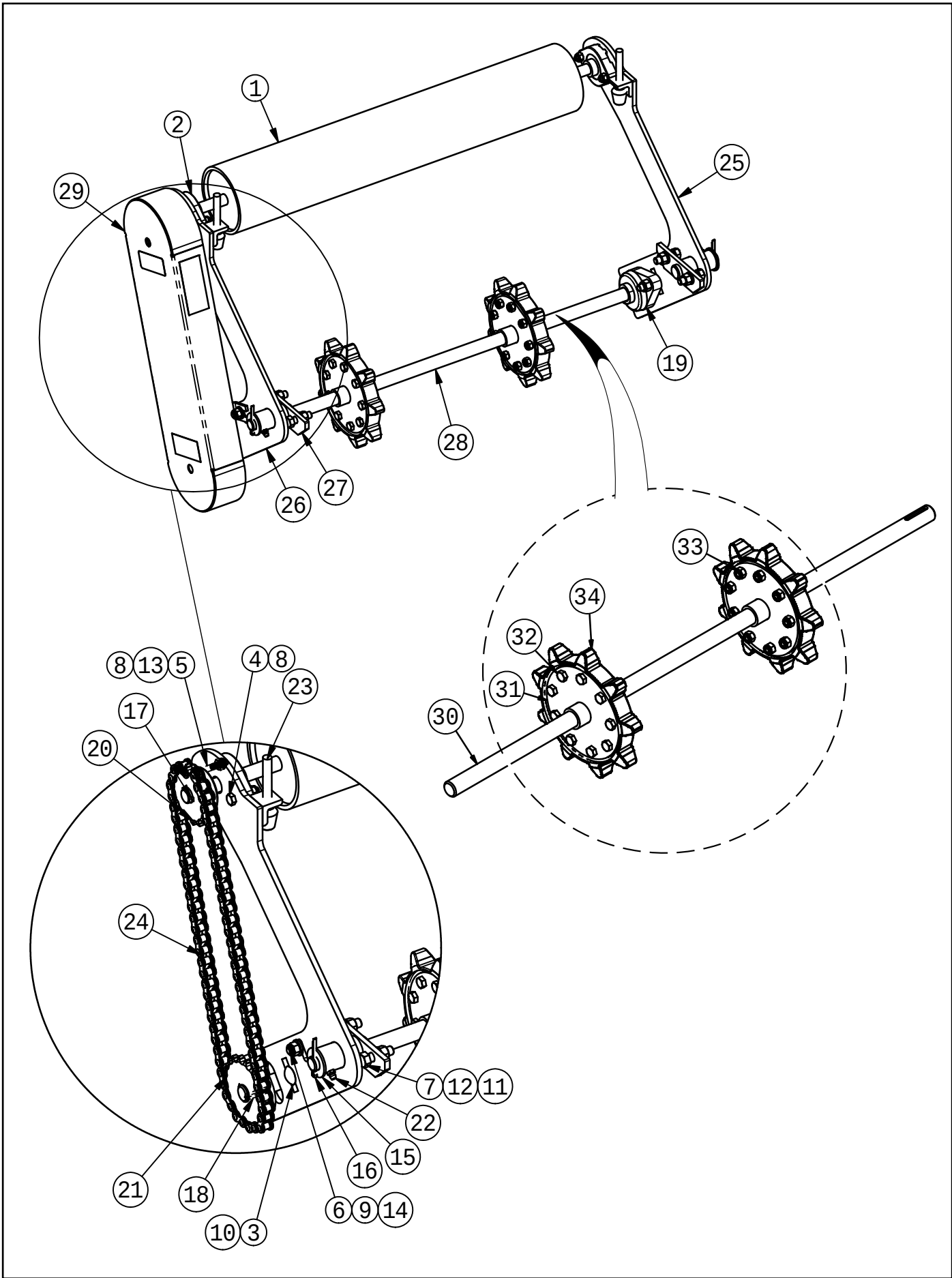
ITEM NO.	PART NO.	QTY.	DESCRIPTION
96	F331600	4	FLAT WASHER - 1.00 SAE
97	F570110	2	PAN HD PHIL 8-32 X 1.00 LG. ST STL
98	F610406	4	Screw 1/4 UNC X 3/4 FLAT HD. PHILLIPS .S.S.
99	F830074	2	RETAINING RING EXTERNAL 3/4"
	F910504	2	COTTER PIN 5/32 x 1 1/2 - NON CURRENT
100	F910624	1	COTTER PIN 3/16 X 2.50 LG.
101	F924410	2	KEY 0.25 X 0.25 X 1.00 LG
102	F924420	1	KEY - 1/4 x 1/4 x 2.0
103	G1804035	2	BOLT - HEX SOCKET M4 - 0.7 x 35 MM LG.
104	G270400	2	HEX NUT - NYLOC JAM M4-0.7
105	G330400	4	WASHER - M4 TYPE A
106	H101024	2	ADJUSTER WEDGE CONVEYOR
107	H101095	2	INNER SLIDER 30.5 IN. 24 IN.
	H101096	2	RETURN SLIDER - 16 IN.
108	H101246	1	SOD GUIDE SPACER
109	H101484	2	ROLL-UP BUMPER PAD
110	H301031	2	FEED ROLLER PIVOT
111	H301069	2	ROLL UP SPRING HOOK
112	H301117	3	ROLLER IDLER SHAFT 24 IN.
	R300063	1	TENSIONER SHAFT WELDMNT 16 IN.
113	H310345	1	AUTO-STEER SAND SHOE W/A
114	H500206	1	DOUBLE STARTER TRAY 24 IN. ASSEMBLY (SEE PG. 1-11)
	H500076	1	DOUBLE STARTER TRAY 16/18 IN. ASSEMBLY (SEE PG. 1-11)
115	H500209	1	TENSIONER ARM RH (SEE PG. 1-13)
116	H500210	1	TENSIONER ARM LH (SEE PG. 1-13)
117	KB12016	8	IGLIDE WASHER 1.00 DIA.
118	KB32012	6	FLANGE BEARING 0.75 DIA.
119	KB32016	2	FLANGE BEARING 1.00 DIA.
120	KC01002	5	3/16 SHACKLE - 1/2 TONNE WORKING LOAD - CURRENT
	016640	2	IDLER SPRING MOUNT - NON CURRENT
121	KD41810	1	SPROCKET #50 CHAIN - 18 TOOTH - 1.00 BORE
122	KD72310	1	SPROCKET #40 CHAIN 23 TOOTH 1.00 BORE
123	KD80003	1	SPLIT LOCK BUSHING TYPE P1 X 1.0
124	KD80038	1	ROLL-UP SPROCKET - 38 TOOTH - 16"
125	KE10389	1	DIFFUSE SENSOR W16
126	KE90023	1	CLEARANCE LIGHT LED KIT
127	KH30060	1	OHLA 210
128	KH30061	1	CUT OFF MOTOR
129	KM11400	6	STRAIGHT GREASE FITTING
130	KM99035	1	RUBBER HOOD LATCH
131	KS20002	2	SPRING TENSION 38.0 - CURRENT
	S2003	1	SPRING - NON CURRENT
132	Q8402-16.00	2	3/16 PLATED CHAIN - 16 IN. (16 LINKS)
133	Q8430-48.75	1	ROLLER CHAIN #40 - 48.75 IN. (97 LINKS)
134	R100516	1	CONVEYOR TOOTH COUNT PLATE - NON CURRENT UP TO S/N 102
135	R300148	1	ROLL UP SUPPORT BAR 24 IN.
	R300147	1	ROLL UP SUPPORT BAR 16 IN.
136	R500150	1	ROBOMAX ROLL-UP ASSEMBLY 24 IN. (SEE PG. 1-07)
	R300149	1	ROBOMAX ROLL-UP ASSEMBLY 16 IN. (SEE PG. 1-07)
137	R500424	1	ROLL-UP CHAIN GUARD LARGE SPROCKET W/DECALS
138	R500426	1	PRE-STARTER ROLLER ASSEMBLY 24 IN. (SEE PG. 1-09)
	R500425	1	PRE-STARTER ROLLER ASSEMBLY 16 IN. (SEE PG. 1-09)
139	R100924	1	SOD GUIDE - 24 IN. L.H. - NON CURRENT
	R100925	1	SOD GUIDE - 24 IN. R.H. - NON CURRENT
	R500425	1	SOD GUIDE - 23 IN. L.H. - NON CURRENT
	R500425	1	SOD GUIDE - 23 IN. R.H. - NON CURRENT
	R500425	1	SOD GUIDE - 16 IN. L.H. - NON CURRENT
	R500425	1	SOD GUIDE - 16 IN. R.H. - NON CURRENT
140	F040406	4	BOLT 1 1/4 UNC x 3/4 GR. 8 - NON CURRENT
141	F041014	2	BOLT 5/8 UNC x 1 1/2 GR. 8 - NON CURRENT
142	Q8404	4	QUICK LINK - 3/16 - NON CURRENT
143	H301041	8	T-BOLT (NOT SHOWN) (USED ON 16 IN. RETURN SLIDER)
144	A101493	2	WASHER 18 mm PROXIMITY SENSOR
145	KE10174	1	INDUCTIVE PROXIMITY SWITCH LONG RANGE
146	KS60013	2	NEOPRENE WASHER 3/4 x 1.50
147	8-6-070220	2	FITTING 1/2 STRAIGHT O-RING 90° ELBOW
148	B500136	1	4000 CONVEYOR LIFT CYLINDER
149	F041660	1	BOLT 1.00 - UNC x 7.00 Gr 8
150	F041660	1	BOLT 1.00 - UNC x 6.00 Gr 8
151	F211600	2	NYLOC NUT 1.00 UNC
152	B500244	1	CONVEYOR TRACKING RETROFIT ASSEMBLY (SEE PG. 1-15)



Brouwer 4000 Sod Harvester Roll-up Assembly

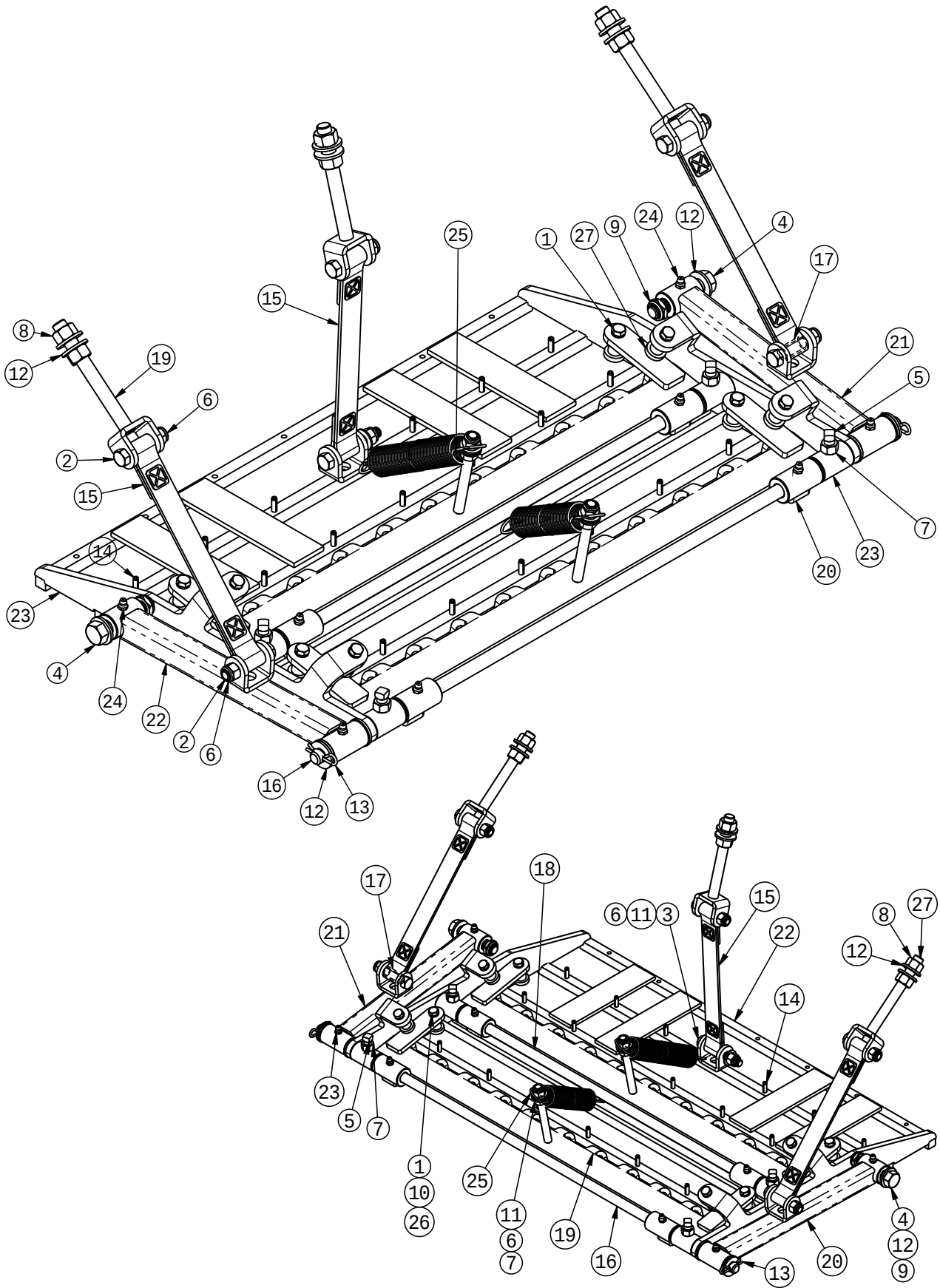
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	015900	2	DECAL - KEEP CLEAR OF CONVEYOR
2	016720	2	ROLLUP IDLER SHAFT MINTEX 24 IN.
	R100259	2	IDLER SHAFT MINTEX ROLLUP 16/18 IN.
3	4129654	1	SHAFT - VERTICAL DRIVE 24 IN.
	R100260	1	VERTICAL DRIVE SHAFT 16/18 IN.
4	4134808	1	VERTICAL BELT -MINTEX 18 IN.
	R100743	1	VERTICAL ROLL UP MAT 16 IN.
5	4134809	1	ROLL-UP BELT - MINTEX 18 IN.
	R100589	1	ROLL UP MAT 16 IN.
6	55-FB23016	2	BEARING 2-BOLT FLANGE 1" BORE VCJT1
7	8-10-070220	2	FITTING 1/2 STRAIGHT THRD O-RING 90° ELBOW
8	8-8-070120	1	#8 JIC TO #8 ORB STREIGHT
9	8-8-070181	1	FITTING - SAE STRAIGHT FEMALE SWIVEL TO SAE O'RING BOSS - SAE 37° (JIC) FLRTWIN
10	B0121	6	BEARING 1.00 IN. BORE 2 BOLT FLANGE
11	B300265	1	ROLL UP FRAME ROD 24 IN.
	B300264	1	ROLL UP FRAME ROD 16 IN.
12	B500233	2	FRONT ROLL-UP STRAP ASSEMBLY
13	B500288	2	REAR ROLL-UP STRAP ASSEMBLY
	B500234	2	REAR ROLL-UP STRAP ASSEMBLY - NON CURRENT
14	D001-054	1	DECAL - WARNING CRUSHING HAZARD
15	F020510	4	5/16-18 X 1 LG CARRAGE BOLT
16	F040404	3	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8
17	F040610	4	BOLT - 3/8 UNC x 1.0 Gr 8
18	F040614	12	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
19	F040714	4	BOLT - 7/16 UNC x 1 1/2 Gr 8
20	F210500	4	NUT-5/16 UNC NYLOC
21	F210600	12	HEX LOCK NUT - 3/8 -16 UNC
22	F210700	4	HEX LOCK NUT - 7/16 UNC
23	F310400	3	WASHER - 1/4 LOCK
24	F310600	4	LOCK WASHER - 3/8
25	F330400	3	1/4 SAE FLAT WASHER
26	F330500	4	5/16 SAE WASHER
27	F330600	16	FLAT WASHER SAE 3/8
28	F330700	4	7/16 SAE FLAT WASHER
29	F924410	14	KEY 0.25 X 0.25 X 1.00 LG
30	KD71410	1	SPROCKET #40 CHAIN 14 TOOTH 1.00 BORE C/W KEYWAY
31	KD71610	1	SPROCKET #40 CHAIN 16 TOOTH 1.0 BORE
32	KH20196	1	CHECK VALVE - ROLL EJECT MOTOR
33	KH30007	1	CONVEYOR MOTOR
34	Q8430-21.50	1	ROLLER CHAIN #40 - 21.50 IN. (43 LINKS)
35	R100457	1	ROLL UP DRIVE SHAFT 24 IN.
	R100314	1	ROLL UP DRIVE SHAFT 16 IN.
36	R300154	1	ROLL UP TRAY WELDMENT 24 IN.
	R300153	1	ROLL UP TRAY WELDMENT 16/18 IN.
37	R500068	12	ROLL-UP SPROCKET ASSEMBLY
38	R500427	1	GUARD - ROLL UP W/DECAL
39	B101477	6	STRAP MOUNT DOUBLE CLEVIS
40	F040512	6	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8
41	F040620	6	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
42	F040622	2	BOLT - 3/8 UNC x 2 1/4 Gr 8
	F040512	2	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8 - NON CURRENT
43	F050614	2	MACHINERY EYE BOLT 3/8
44	F210500	6	NUT-5/16 UNC NYLOC
45	F210600	10	HEX LOCK NUT - 3/8 -16 UNC
46	F330600	2	FLAT WASHER SAE 3/8
47	H101032	4	STARTER HANGER STRAP
48	H101260	8	SLEEVE 1 IN. STRAP
49	H101281	2	CHAIN 3/16 - 5 LINKS
	H101280	2	CHAIN 3/16 - 3 LINKS - NON CURRENT
50	KC01035	2	FIREMAN SNAP 5/16 (8 mm)
51	505276	2	HEIGHT CHAIN
52	F040416	60	BOLT - HEX HEAD 1/4 UNC x 1 3/4 GR 8
53	F140402	24	SET SCREW - 1/4 -20 UNC SOC HD CUP POINT
54	F210408	60	1/4-20 UNC NYLOC NUT GR 8
55	R100621	12	ROLL-UP SPROCKET MINTEX
56	R100622	12	ROLL-UP SPROCKET PLATE
57	R100623	12	ROLL-UP SPROCKET HUB
58	B101478	2	STRAP MOUNT SINGLE CLEVIS - NON CURRENT

***NOTE:** For customers with a narrow spacing between the lugs at the rear of the frame less than 5/8 in. use Non Current Rear Roll-up Strap Assembly - B500234



Brouwer 4000 Sod Harvester Pre-Starter Roller Assembly

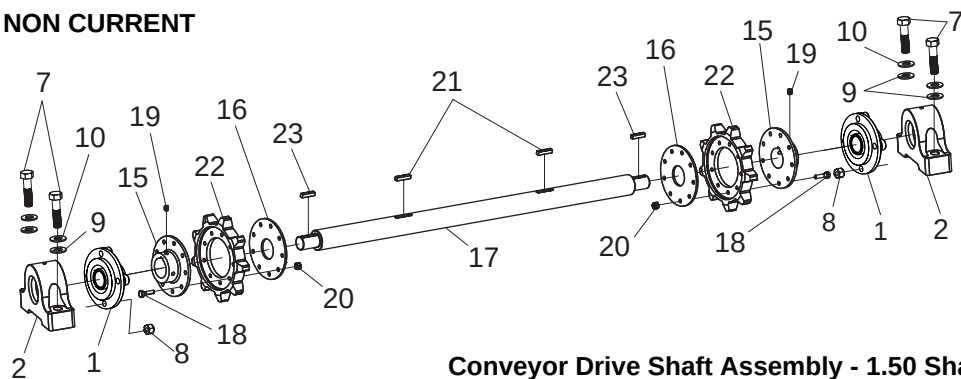
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001437	1	4 IN. ROLLER 24 IN.
	014204	1	4 IN. ROLLER 16/18 IN.
2	B0002	2	FLANGE BEARING 5/8 Ø SET SCREW
3	F020614	4	CARRIAGE BOLT 3/8-16 x 1.50 LG.
4	F040412	3	HEX BOLT - 1/4 -20 UNC x 1-1/4 GR 8
5	F040414	1	BOLT - 1/4 UNC x 1 1/2 Gr 8
6	F040510	1	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
7	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
8	F210408	4	1/4-20 UNC NYLOC NUT GR 8
9	F210508	1	NUT - 5/16 UNC NYLOC Gr 8
10	F210608	4	NUT - 3/8 UNC NYLOC Gr 8
11	F230608	4	NUT - 3/8 UNC Gr 8
12	F310608	4	WASHER - 3/8 LOCK Gr 8
13	F330408	1	WASHER - 1/4 SAE Gr 8
14	F330500	2	5/16 SAE WASHER
15	F331008	2	WASHER - 5/8 SAE Gr 8
16	F910514	2	COTTER PIN - 5/32 x 1.50
17	F923306	1	KEY 3/16 x 3/16 x 0.75 LG. - CURRENT
	F900310	1	WOODRUFF KEY #608 - NON CURRENT
18	F923311	1	KEY 3/16 x 3/16 x 1.125 LG.
19	KB32012	2	FLANGE BEARING 0.75 DIA.
20	KD71605	1	SPROCKET #40 CHAIN 16 TOOTH 0.625 BORE WITH KEYWAY
21	KD71906	1	SPROCKET #40 CHAIN 19 TOOTH - 3/4 BORE
22	KM11400	2	STRAIGHT GREASE FITTING
23	KS60002	2	BUMPER SPINDLE 3/8-UNC x 2.50 Lg 3.50 OAL
24	Q8430-34.50	1	ROLLER CHAIN #40 - 34.50 IN. (69 LINKS)
25	R300046	1	4 IN. ROLLER ARM LH
26	R300047	1	4 IN. ROLLER ARM RH
27	R300195	2	ROLLER PIVOT PIN PLATE W/A
28	R500414	1	IDLER SHAFT 24" ROLLER DRIVE ASSEMBLY
	A03254	1	IDLER SHAFT 16" ROLLER DRIVE ASSEMBLY
29	R500423	1	4 IN. ROLLER DRIVE GUARD W/DECALS
30	002611	1	IDLER SHAFT 24 IN. ROLLER DRIVE
	014128	1	ROLLER DRIVE SHAFT WELDMENT 16/18 IN.
31	A100761	2	BED SPROCKET PLATE
32	F040410	18	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
33	F210400	18	1/4-20 UNC NYLOC NUT
34	KD20001	2	CONVEYOR SPROCKET



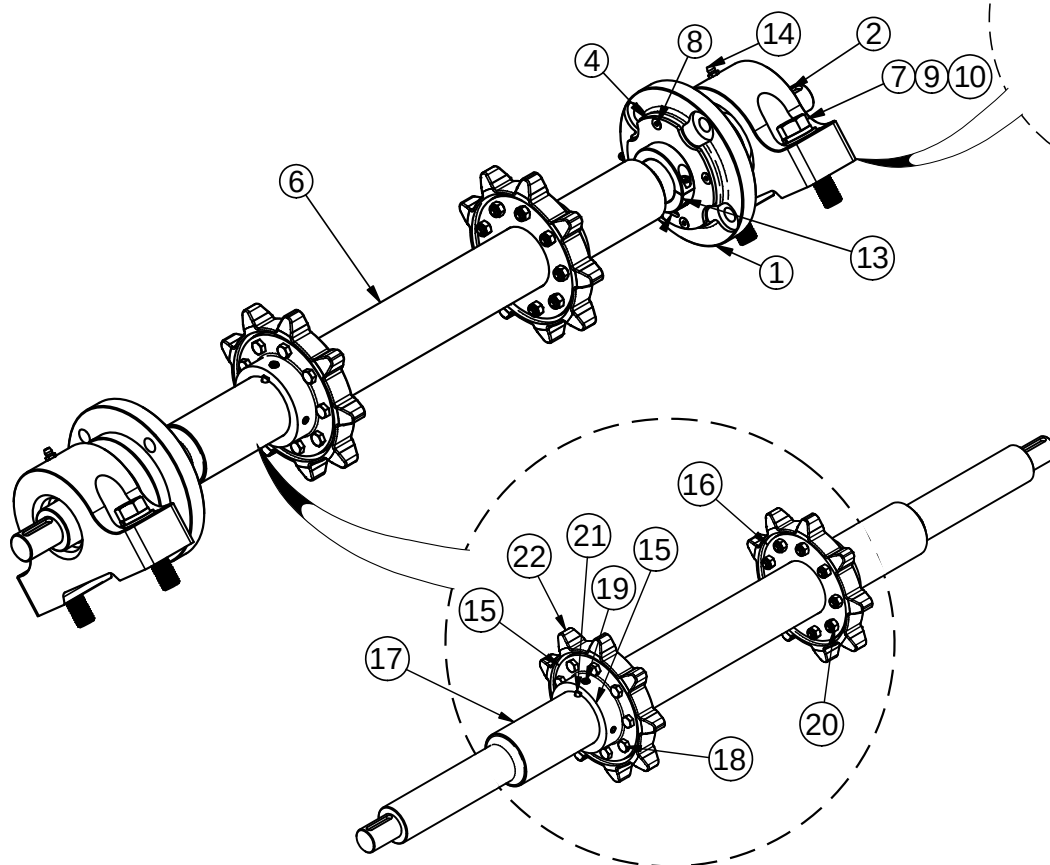
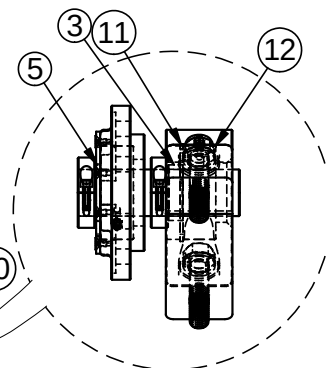
**Brouwer 4000 Sod Harvester
Double Starter Tray Assembly**

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>F040404</u>	8	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8
2	<u>F040620</u>	5	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
3	<u>F040624</u>	1	HEX BOLT 3/8-16UNC x 2-1/2 LG.
4	<u>F040824</u>	2	BOLT - 1/2 UNC X 2 1/2 Gr 8
5	<u>F110606</u>	4	SET SCREW SQ HD CUP POINT
6	<u>F210600</u>	8	HEX LOCK NUT - 3/8 -16 UNC
7	<u>F230600</u>	6	NUT - 3/8-16
8	<u>F230800</u>	6	HEX NUT - 1/2 UNC - ZINC PLATED
9	<u>F270800</u>	2	1/2-20 UNF NYLOC JAM NUT
10	<u>F310400</u>	8	WASHER - 1/4 LOCK
11	<u>F330600</u>	5	FLAT WASHER SAE 3/8
12	<u>F330800</u>	14	1/2 SAE FLAT WASHER
13	<u>F940215</u>	2	HAIRPIN COTTER - 3/32 x 1.625 LG.
14	<u>F940312</u>	20	SPRING PIN 3/16 x 1.25
15	<u>H101032</u>	3	STARTER HANGER STRAP
16	<u>H101194</u>	1	STARTER GATE SHAFT 24 IN.
	<u>H101070</u>	1	STARTER GATE SHAFT
17	<u>H101260</u>	6	SLEEVE 1 IN. STRAP
18	<u>H101606</u>	1	GATE SHAFT 24 IN.
	<u>H101285</u>	1	GATE SHAFT 16/18 IN.
19	<u>H301052</u>	2	STARTER GATE 24 IN.
	<u>H301019</u>	2	STARTER GATE 16/18 IN.
20	<u>H301081</u>	1	TRAY LINK L/H WELDMENT STARTER TRAY
21	<u>H301082</u>	1	TRAY LINK R/H WELDMENT STARTER TRAY
22	<u>H301188</u>	1	DOUBLE STARTER
23	<u>KM11400</u>	8	STRAIGHT GREASE FITTING
24	<u>KS20005</u>	1	SPRING TENSION, 6.875
25	<u>KS20006</u>	1	SPRING TENSION, 5.375
26	<u>KS60003</u>	8	BUMPER
27	<u>R300366</u>	3	CONVEYOR SUSPENDER ADJUSTER MESH TRAY

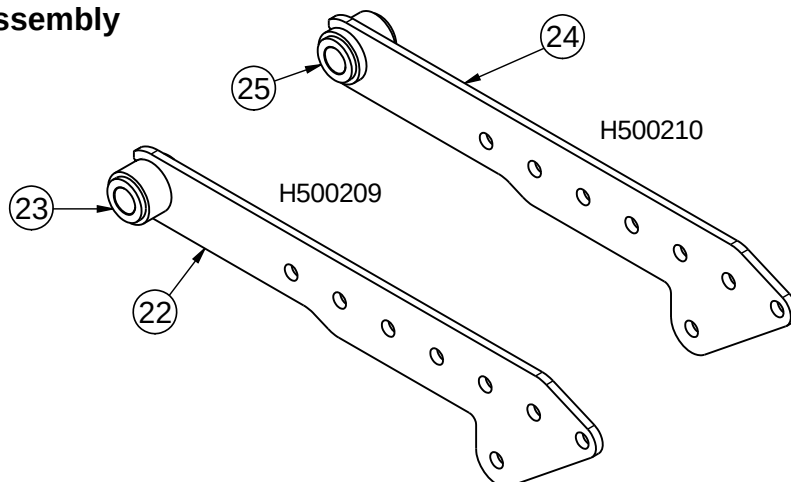
NON CURRENT



Conveyor Drive Shaft Assembly - 1.50 Shaft



Tensioner Arm Assembly



Brouwer 4000 Sod Harvester Conveyor Drive Shaft Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101459	2	FLANGED CONVEYOR BEARING HOUSING - CURRENT FROM SN. 37
	KB31024	2	FLANGED BEARING 1.50 DIA. - N/C UP TO SN. 36
2	B101460	2	CONVEYOR PILLOW BLOCK HOUSING - CURRENT FROM SN. 37
	KB30054	2	BEARING 1 1/2 IN. BORE BEARING - N/C UP TO SN. 36
3	B101461	2	LOCK COLLAR SPACER
4	B101520	2	CONVEYOR BEARING COVER PLATE
5	B101628	2	LOCK COLLAR SPACER INTERNAL
6	B500190	1	MAIN CONVEYOR SHAFT ASSEMBLY 24 IN.
	B500189	1	MAIN CONVEYOR SHAFT ASSEMBLY 16 IN.
7	F041026	4	5/8-UNC X 2-3/4 HEX BOLT
8	F120203	8	FLAT HEAD HEX SOCKET - 10-24 UNC x 3/8 LG. - CURRENT FROM SN. 37
	F270808	8	JAM NUT 1/2-13 GR. 2 - NYLOC - N/C UP TO SN. 36
9	F311000	4	LOCK WASHER - 5/8
10	F331000	4	FLAT WASHER SAE 5/8 IN.
11	G815080	2	RETAINING RING - INTERNAL - 80 mm
12	KB16335	4	SPHERICAL ROLLER BEARING 40 mm
13	KM10066	4	LOCK COLLAR - 40 mm I.D. 2 PIECES
14	KM11400	4	STRAIGHT GREASE FITTING
15	B101264	2	SPROCKET FLANGE 2.25 SHAFT - CURRENT FROM SN. 37
	B100824	2	SPROCKET FLANGE 1.50 SHAFT - N/C UP TO SN. 36
16	B101265	2	CONVEYOR SPROCKET CLAMP PLATE 2.25 SHAFT - CURRENT FROM SN. 37
	R100445	2	CONVEYOR SPROCKET CLAMP PLATE - N/C UP TO SN. 36
17	B101463	1	CONVEYOR DRIVE SHAFT 24 IN. - CURRENT FROM SN. 37
	B101462	1	CONVEYOR DRIVE SHAFT 16 IN. - CURRENT FROM SN. 37
	B100894	1	1.50 IN. CONVEYOR DRIVE SHAFT 24 IN. - N/C UP TO SN. 36
	B100823	1	1.50 IN. CONVEYOR DRIVE SHAFT 16 IN. - N/C UP TO SN. 36
18	F040410	18	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8.
19	F140503	4	SET SCREW - 5/16 -18 UNC x 3/8 CUP PT
20	F210400	18	1/4-20 UNC NYLOC NUT
21	F924412	2	KEY - 1/4 x 1/4 x 1 1/4
22	KD20001	2	CONVEYOR SPROCKET
23	F924410	2	KEY - 1/4 x 1/4 x 1 - N/C UP TO SN. 36

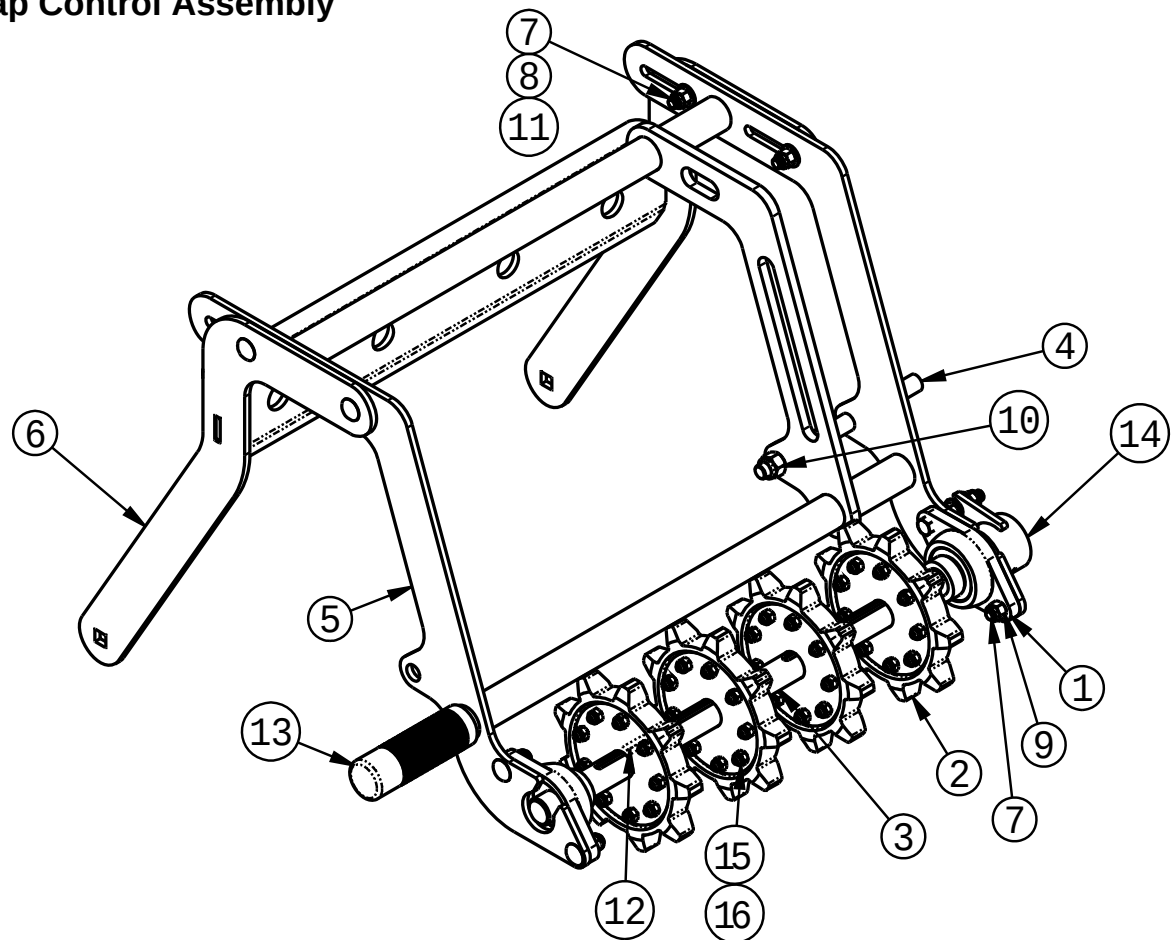
Tensioner Arm Assembly LH - H500209

ITEM NO.	PART NO.	QTY.	DESCRIPTION
22	H301005	1	TENSIONER ARM
23	KB11212	2	FLANGED BUSHING - 0.75 I.D.

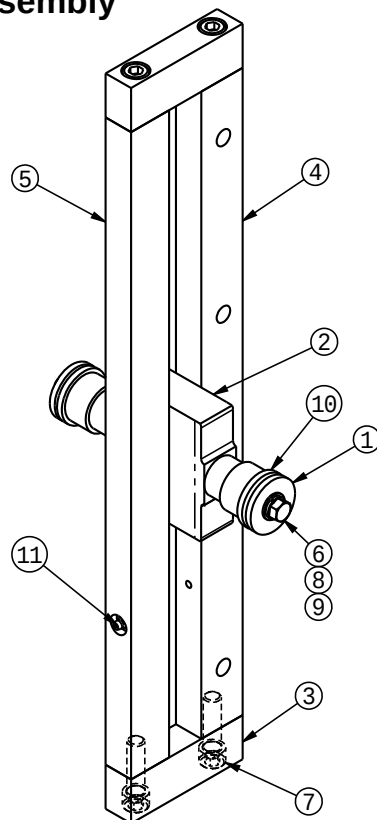
Tensioner Arm Assembly RH - H500210

ITEM NO.	PART NO.	QTY.	DESCRIPTION
24	H301006	1	TENSIONER ARM
25	KB11212	2	FLANGED BUSHING - 0.75 I.D.

Roll Flap Control Assembly



Conveyor Tracking Retrofit Assembly



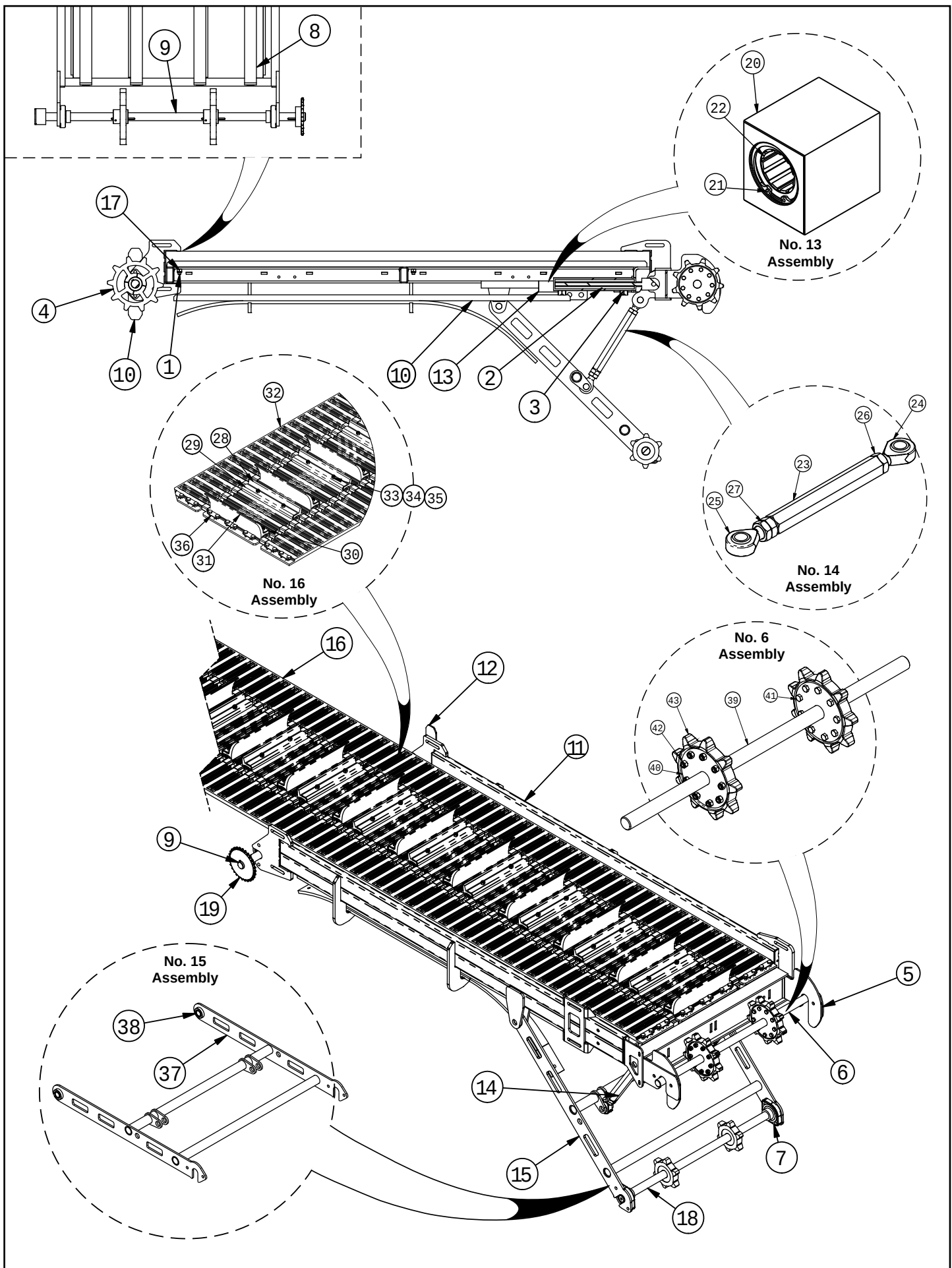
Brouwer 4000 Sod Harvester Roll Flap Control & Conveyor Tracking Assembly

B500132 - Roll Flap Control Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	55-FB23016	2	BEARING 2-BOLT FLANGE 1" BORE VCJT1
2	KD20001	4	CONVEYOR SPROCKET - CURRENT
	A500053	4	BED CONVEYOR SPROCKET ASSEMBLY LASER PLATE BACKING - NON CURRENT
3	B300250	1	FLAP CONTROL SHAFT WELDMENT 16 IN. - CURRENT
	B300251	1	FLAP CONTROL SHAFT WELDMENT 24 IN. - CURRENT
	B101063	1	FLAP CONTROL SHAFT 16 IN. - NON CURRENT
	B101064	1	FLAP CONTROL SHAFT 24 IN. - NON CURRENT
4	B101076	1	FLAP CONTROL LIFT ROD
5	B300176	1	SOD FLAP CONTROL BRACKET 16 IN.
	B300177	1	SOD FLAP CONTROL BRACKET 24 IN.
6	B300192	1	FLAP CONTROL MOUNTING FRAME 16 IN.
	B300193	1	FLAP CONTROL MOUNTING FRAME 24 IN.
7	F020612	7	CARRIAGE BOLT - 3/8 UNC x 1 1/4
8	F210600	4	HEX LOCK NUT - 3/8 -16 UNC
9	F210608	3	NUT - 3/8 UNC NYLOC Gr 8
10	F210800	1	NUT-1/2 UNC NYLOC
11	F330600	4	FLAT WASHER SAE 3/8
12	F924410	4	KEY 0.25 X 0.25 X 1.00 LG - NON CURRENT
13	KM40015	1	GRIP 1.25 I.D.
14	R500210	1	1.00 Ø ROLLER CLUTCH ASSEMBLY
15	F040412	20	HEX BOLT - 1/4 -20 UNC x 1-1/4 GR 8 - CURRENT
16	F210400	20	1/4-20 UNC NYLOC NUT - CURRENT

B500244 - Conveyor Tracking Assembly

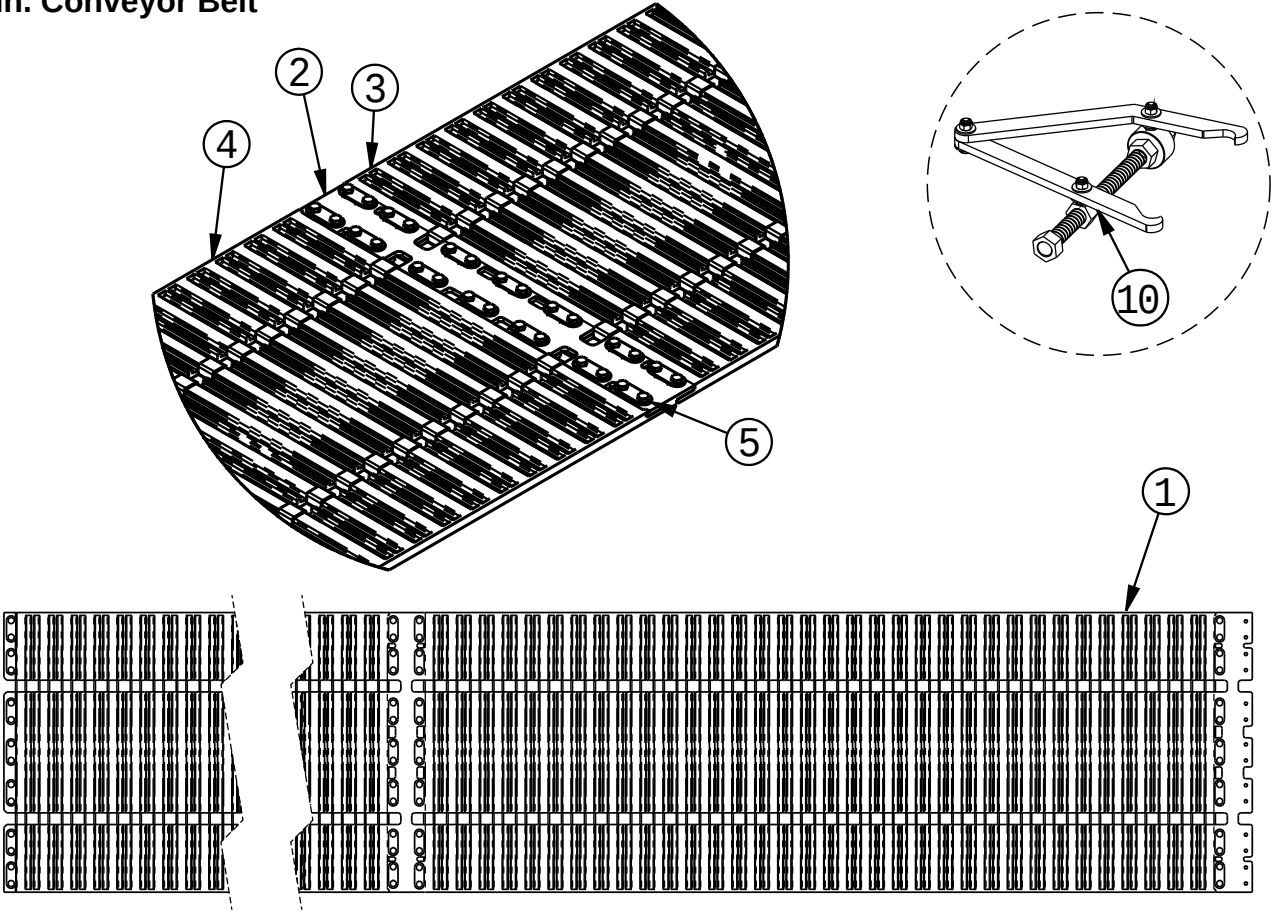
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100451	2	WASHER 1.75 x 0.375 x 0.188
2	B101494	1	CONVEYOR RETAINER PIVOT PLATE
3	B101496	2	CONVEYOR KEEPER BOTTOM PLATE
4	B101602	1	TRACKING ROD SLOT MOUNTING
5	B101603	1	TRACKING ROD SLOT OUTER
6	F040610	2	BOLT - 3/8 UNC x 1.0 Gr 8
7	F180816	4	SOC HD CAP 1/2 UNC x 1.75 LG.
8	F310600	2	LOCK WASHER - 3/8
9	F330600	2	FLAT WASHER SAE 3/8
10	KB11806	2	IGUS BUSHING FLANGED 1.25 x 1.50 x 0.75
11	KM11400	2	STRAIGHT GREASE FITTING



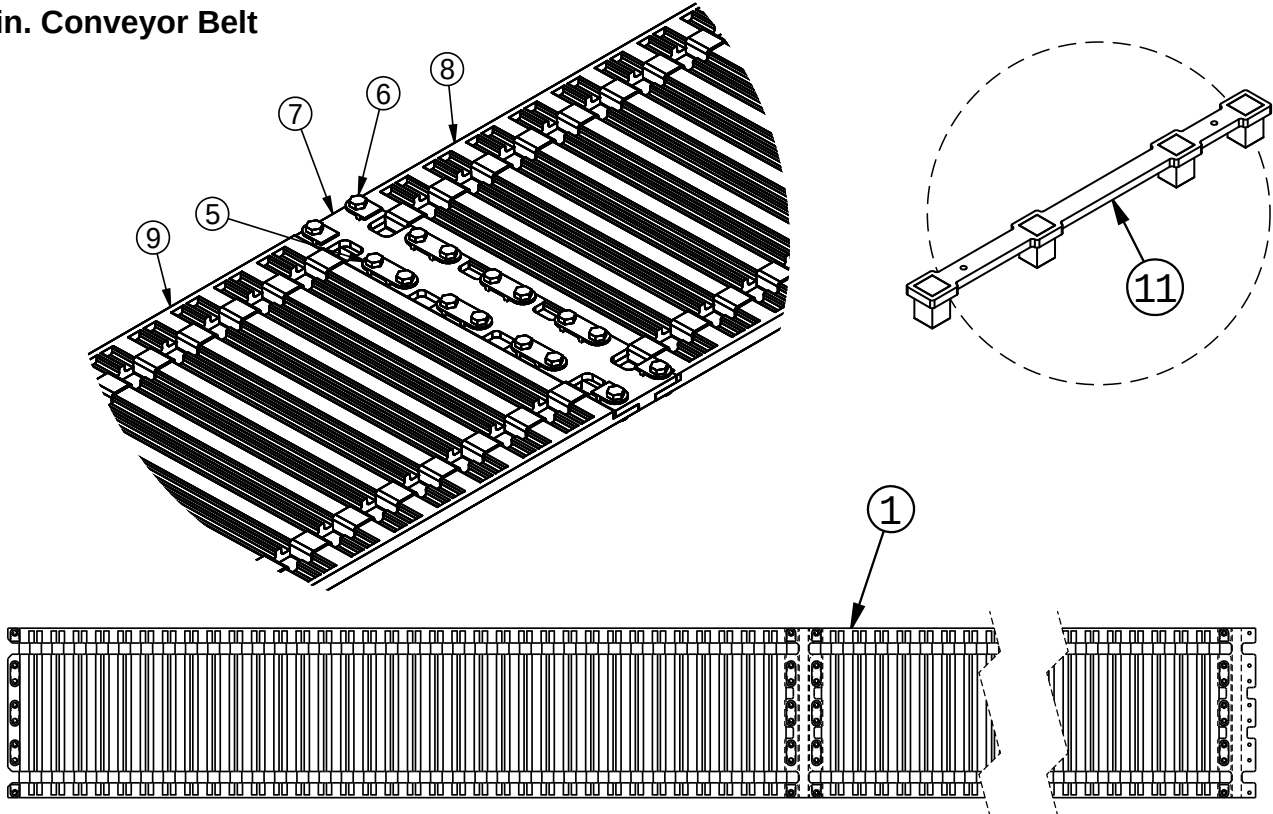
Brouwer 4000 Sod Harvester Index Conveyor Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	016661	8	SLIDER T-BOLT
2	4129177	2	GUIDE SHAFT
3	4131860	1	INDEX BAD ROLL CYLINDER
	KH70139	1	INDEX BAD ROLL CYLINDER - SEAL KIT
4	4135600	2	10 TOOTHED SPROCKET WELDMENT
5	4138642	1	BAD ROLL BRACKET 24 IN.
	R300042	1	BAD ROLL BRACKET 16 IN.
6	4160827	1	FRONT INDEX CONVEYOR IDLER SHAFT 24 IN.
	R500083	1	FRONT INDEX CONVEYOR IDLER SHAFT 16 IN.
7	B0121	4	BEARING 1.00 IN. BORE 2 BOLT FLANGE
8	B100250	4	INDEX CONVEYOR SLIDER
9	B100693	1	INDEX CONVEYOR 24 IN. DRIVE SHAFT
	B100252	1	INDEX CONVEYOR 16 IN. DRIVE SHAFT
10	B100898	2	INDEX CONVEYOR RETURN SLIDER
11	B300073	1	INDEX CONVEYOR WELDMENT 24 IN.
	B300032	1	INDEX CONVEYOR WELDMENT 16 IN.
12	B300163	1	SENSOR FLAG WELDMENT
13	B500021	4	INDEX CONVEYOR LINEAR BEARING
14	B500026	2	INDEX LINKAGE BAR ASSEMBLY
15	B500028	1	INDEX CONVEYOR IDLER TENSIONER ARM 24 IN.
	B500027	1	INDEX CONVEYOR IDLER TENSIONER ARM 16 IN.
16	B500095	1	INDEX CONVEYOR BELT ASSEMBLY 24 IN.
	B500094	1	INDEX CONVEYOR BELT ASSEMBLY 16 IN.
17	F210600	8	HEX LOCK NUT - 3/8 -16 UNC
18	H301214	1	LOWER IDLER SHAFT 24 IN. CONVEYOR
	H301212	1	LOWER IDLER SHAFT 16 IN. CONVEYOR
19	KD72810	1	SPROCKET #40 CHAIN 28 TOOTH 1.00 BORE
20	B100272	1	LINEAR GUIDE BEARING BLOCK
21	F815156	2	RETAINING RING INTERNAL 1 9/16
22	KB11910	1	LINEAR BUSHING 1.00 I.D.
23	B100367	1	INDEX CONVEYOR LINKAGE BAR
24	CM00121	1	ROD END - MALE 3/4 UNF R.H.
25	CM00122	1	ROD END - MALE 3/4 UNF L.H.
26	F221250	1	HEX JAM NUT - 3/4 UNF
27	F221260	1	HEX JAM NUT - 3/4-16 UNF LH
28	4133515	19	RUBBER CLEAT SHORT
29	4140215	19	METAL STRIP CLEAT SHORT
30	B100309	19	METAL STRIP CLEAT 16 IN.
31	B100310	19	RUBBER CLEAT TALL 16 IN.
32	B100813	1	INDEX CONVEYOR BELT 24 IN.
	B100812	1	INDEX CONVEYOR BELT 16 IN.
33	F040414	95	BOLT - 1/4 UNC x 1 1/2 Gr 8
34	F210400	95	1/4-20 UNC NYLOC NUT
35	F330400	95	1/4 SAE FLAT WASHER
36	KD90001	7	BELT SPLICER
37	B300052	1	INDEX CONVEYOR TENSIONER IDLER ARM WELDMENT 24 IN.
	B300051	1	INDEX CONVEYOR TENSIONER IDLER ARM WELDMENT 16 IN.
38	KB11210	2	BUSHING 0.75 I.D. x 1.00 O.D. x 1.00 LG.
39	4136960	1	FRONT IDLER WELDMENT
	R300057	1	FRONT INDEX IDLER 16 IN. WELDMENT
40	A100761	2	BED SPROCKET PLATE
41	F040410	18	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
42	F210400	18	1/4-20 UNC NYLOC NUT
43	KD20001	2	CONVEYOR SPROCKET

24 in. Conveyor Belt

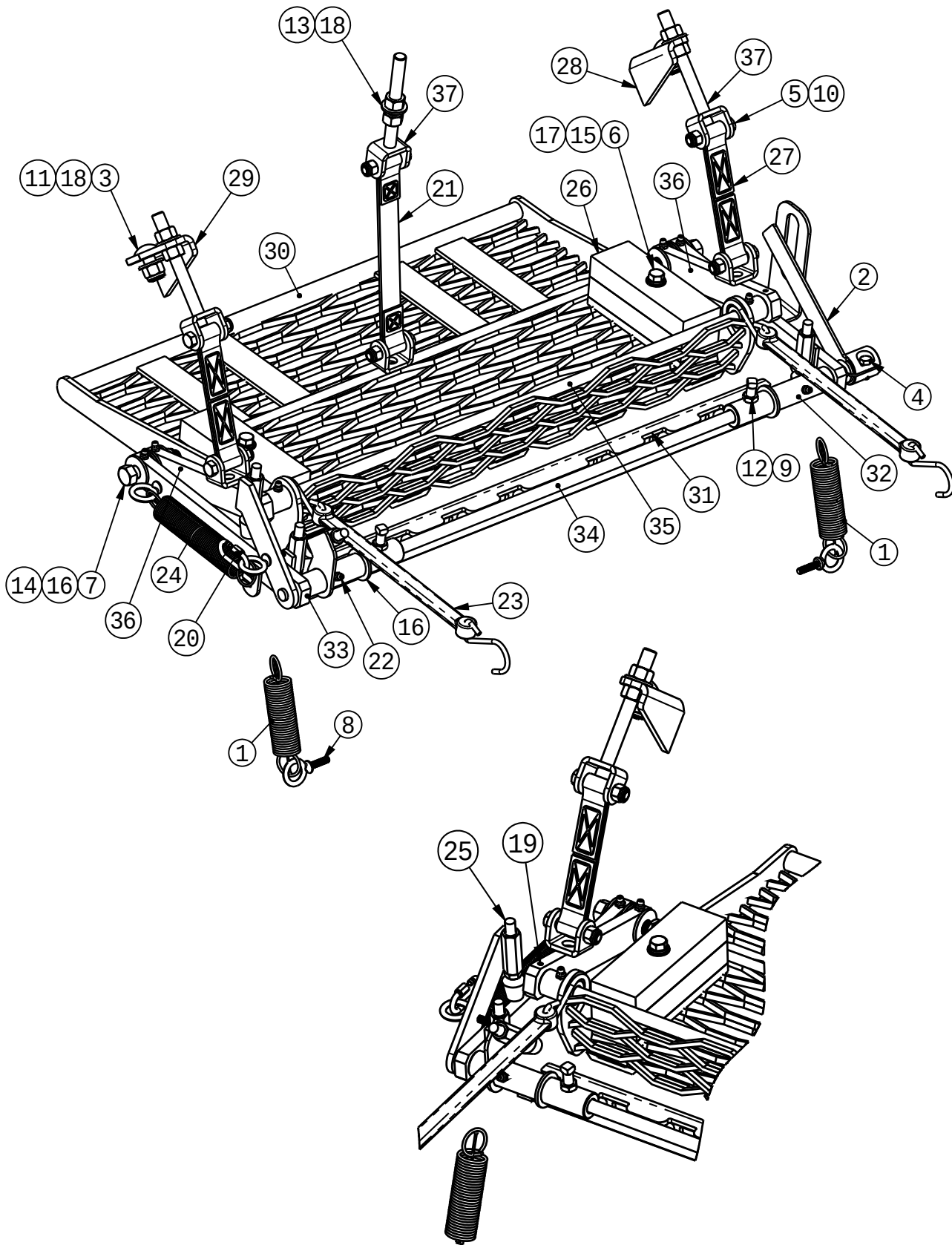


16 in. Conveyor Belt



Brouwer 4000 Sod Harvester
24 in. & 16 in. Conveyor Belt Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B500223	1	MAIN CONVEYOR BELT ASSEMBLY 24 IN.
	B500222	1	MAIN CONVEYOR BELT ASSEMBLY 16 IN.
2	BT01185	2	RUBBER BELT SPICER 24 IN.
3	B101444	1	4000 24 IN. MAIN CONVEYOR BELT SHORT PIECE
4	B101445	1	4000 24 IN. MAIN CONVEYOR BELT LONG PIECE
5	KD90001	28	BELT SPICER (24 IN.)
		12	BELT SPICER (16 IN.)
6	002641	1	MAT SPLICE HALF
7	B100995	2	RUBBER BELT SPICER 16 IN.
8	B101442	1	4000 16 IN. MAIN CONVEYOR BELT LONG PIECE
9	B101443	1	4000 16 IN. MAIN CONVEYOR BELT SHORT PIECE
10	S500002	1	CONVEYOR BELT TIGHTENER
11	S300014	1	CONVEYOR MAT JOINER JIG

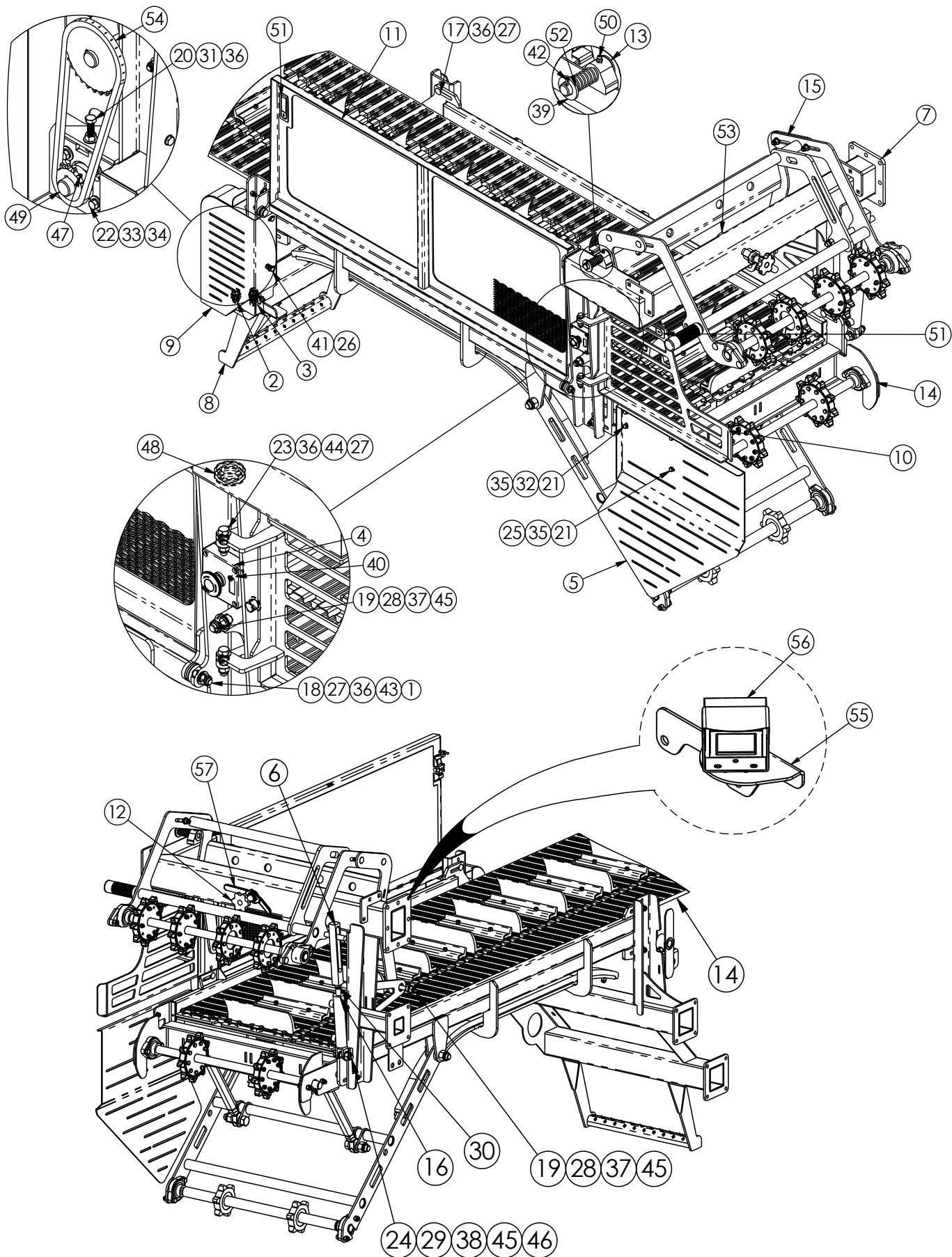


Brouwer 4000 Sod Harvester
14.5" LG Mesh Starter Tray 16 & 24 IN.

R500152 - 24 IN. - 14.5" LG Mesh Starter Tray Assembly

R500151 - 16 IN. - 14.5" LG Mesh Starter Tray Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001279	2	SPRING, SCRAPER BLADE
2	4139958	1	ROLLUP FLAG W/A
3	F020812	2	CARRIAGE BOLT 1/2 UNC x 1.1/4 LG
4	F040406	1	BOLT 1/4 UNC x 3/4 Gr 8
5	F040620	6	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
6	F040624	2	HEX BOLT 3/8-16UNC x 2-1/2 LG.
7	F040824	2	BOLT - 1/2 UNC X 2 1/2 Gr 8
8	F050420	4	EYEBOLT 1/4"-20 UNC
9	F110610	2	SET SCREW - 3/8 UNC x 1 SQ HD CUP PT
10	F210600	6	HEX LOCK NUT - 3/8 -16 UNC
11	F210800	2	NUT-1/2 UNC NYLOC
12	F220600	2	HEX JAM NUT - 3/8 UNC
13	F230800	6	HEX NUT - 1/2 UNC - ZINC PLATED
14	F270800	2	1/2-20 UNF NYLOC JAM NUT
15	F310608	2	WASHER - 3/8 LOCK Gr 8
16	F320800	10	1/2 USS FLAT WASHER ZN PL
17	F330608	2	WASHER - 3/8 SAE Gr 8
18	F330800	5	1/2 SAE FLAT WASHER
19	F940312	1	SPRING PIN 3/16 x 1.25
20	G8084	1	QUICK LINK CHAIN 3/16
21	H101032	1	STARTER HANGER STRAP
22	KM11400	8	STRAIGHT GREASE FITTING
23	KM71015	2	BUNGEE 15"
24	KS20005	1	SPRING TENSION, 6.875
25	KS60002	4	BUMPER SPINDLE 3/8-UNC x 2.50 Lg 3.50 OAL
26	R101660	4	STARTER TRAY WEIGHT
27	R101803	2	MESH STARTER TRAY HANGER STRAP - CURRENT FROM S/N 36
28	R102004	1	MESH TRAY STRAP ADAPTER - LH
29	R102005	1	MESH TRAY STRAP ADPATER - RH
30	R300186	1	24 IN MESH STARTER TRAY W/A
	R300185	1	16/18 IN MESH STARTER TRAY W/A
31	R300190	1	24" STARTER GATE W/A
	R300189	1	16/18" STARTER GATE W/A
32	R300191	1	STARTER GATE ARM W/A LH
33	R300192	1	STARTER GATE ARM W/A RH
34	R300194	1	24" STARTER PIVOT SHAFT W/A
	R300193	1	16/18" STARTER PIVOT SHAFT W/A
35	R300345	1	24" (MESH) STARTER TRAY SHAFT W/A
	R300344	1	16/18" (MESH) STARTER TRAY SHAFT W/A
36	R300358	2	MESH TRAY ARM W/A FOR STRAP - CURRENT FROM S/N 36
	R300187	1	MESH TRAY W/A LH - NON CURRENT UP TO S/N 35
	R300188	1	MESH TRAY W/A RH - NON CURRENT UP TO S/N 35
37	R300366	3	CONVEYOR SUSPENDER ADJUSTER MESH TRAY - CURRENT FROM S/N 36



Brouwer 4000 Sod Harvester
Index Conveyor Complete Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	301691	3	FRICION WASHER 3/8
2	8-10-070120	1	FITTING - STRAIGHT THREAD O-RING - SAE 37° FLARE
3	8-10-070220	1	FITTING 1/2 STRAIGHT THRD O-RING 90° ELBOW
4	A500299	1	E-STOP BOX ASSEMBLY
5	B100874	1	INDEX CONVEYOR SCRAP GUARD
6	B101066	1	FLAP CONTROL CYLINDER END
7	B300069	1	FRONT INDEX CONVEYOR SUPPORT 24 IN.
	B300039	1	FRONT INDEX CONVEYOR SUPPORT 16 IN.
8	B300072	1	REAR INDEX CONVEYOR MOUNT 24 IN.
	B300040	1	REAR INDEX CONVEYOR MOUNT 16 IN.
9	B300076	1	INDEX CONVEYOR MOTOR GUARD
10	B300186	1	INDEX CONVEYOR GUARD
11	B300187	1	INDEX CONVEYOR SIDE GUARD
12	B300190	1	FLAP CONTROL ADJUSTMENT HANDLE
13	B300191	1	FLAP CONTROL STOP PIN
14	B500045	1	INDEX CONVEYOR 24 IN. ASSEMBLY (SEE PG. 1-17)
	B500019	1	INDEX CONVEYOR 16 IN. ASSEMBLY (SEE PG. 1-17)
15	B500132	1	ROLL FLAP CONTROL ASSEMBLY 24 IN. (SEE PG. 1-15)
	B500131	1	ROLL FLAP CONTROL ASSEMBLY 16 IN. (SEE PG. 1-15)
16	B500135	1	ROLL FLAP CONTROL CYLINDER
17	F020612	8	CARRIAGE BOLT - 3/8 UNC x 1 1/4
18	F020616	2	CARRIAGE BOLT 3/8-16 x 1.75 LG.
19	F020836	2	CARRIAGE BOLT - 1/2 UNC X 3 3/4
20	F030620	1	BOLT-3/8 UNC X 2 FULL THRD GR 8
21	F040406	4	BOLT 1/4 UNC x 3/4 Gr 8
22	F040510	4	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
23	F040614	2	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
24	F040922	1	HEX BOLT 9/16 UNC x 2.25 LG. GR 8
25	F210400	2	1/4-20 UNC NYLOC NUT
26	F210500	3	NUT-5/16 UNC NYLOC
27	F210600	12	HEX LOCK NUT - 3/8 -16 UNC
28	F210800	2	NUT-1/2 UNC NYLOC
29	F210900	1	HEX NUT - 9/16 UNC NYLOC
30	F220800	1	HEX JAM NUT - 1/2 - 13 UNC
31	F230600	2	NUT - 3/8-16
32	F310400	2	WASHER - 1/4 LOCK
33	F310500	4	LOCK WASHER - 5/16
34	F320500	4	FLAT WASHER - 5/16
35	F330400	6	1/4 SAE FLAT WASHER
36	F330600	16	FLAT WASHER SAE 3/8
37	F330800	2	1/2 SAE FLAT WASHER
38	F330908	2	WASHER-9/16 SAE GR 8
39	F331200	1	SAE FLAT WASHER - 3/4 IN.
40	F570110	2	PAN HD PHIL 8-32 X 1.00 LG. ST STL
41	F870510	3	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
42	F940312	1	SPRING PIN 3/16 x 1.25
43	KB11205	2	BUSHING - IGUS 0.375 I.D. X 0.50 O.D. X 0.625 LG.
44	KB11206	2	IGUS FLANGED BUSHING 0.375 I.D. x 0.50 O.D. x 0.375 LG.
45	KB11608	5	FLANGED BUSHING 0.50 I.D. x 0.625 O.D. x 0.625 LG.
46	KB12008	1	IGUS THRUST WASHER 0.50
47	KD71510	1	SPROCKET #40 CHAIN 15 TOOTH 1.00 BORE
48	KE10278	2	GROMMET - 1.75 O.D. x 1.00 I.D. x 0.25 THK. GROOVE
49	KH30007	1	CONVEYOR MOTOR
50	KM11400	1	STRAIGHT GREASE FITTING
51	KM99083	3	LEVER LATCH - C2 LOCKING
52	KS10065	1	COMPRESSION SPRING - 0.938 O.D. x 0.080 WIRE DIA. X 2.03 LG.
53	KS60007	1	RUBBER BUMPER - 1.50 x 0.81 x 3/8 THREAD
54	Q8430-29.50	1	#40 CHAIN 29.50"
55	B101639	1	SECONDARY CAMERA MOUNT (OPTIONAL)
56	KE70038	1	CAMERA ELITE, HEATD, ULTRA LOW LIGHT (OPTIONAL)
57	B300322	1	FLAP CONTROL LOCK ACCESSORY - CURRENT FROM SER. # 132

Brouwer 4000 Sod Harvester
10" LG Mesh Starter Tray 16 & 24 IN.

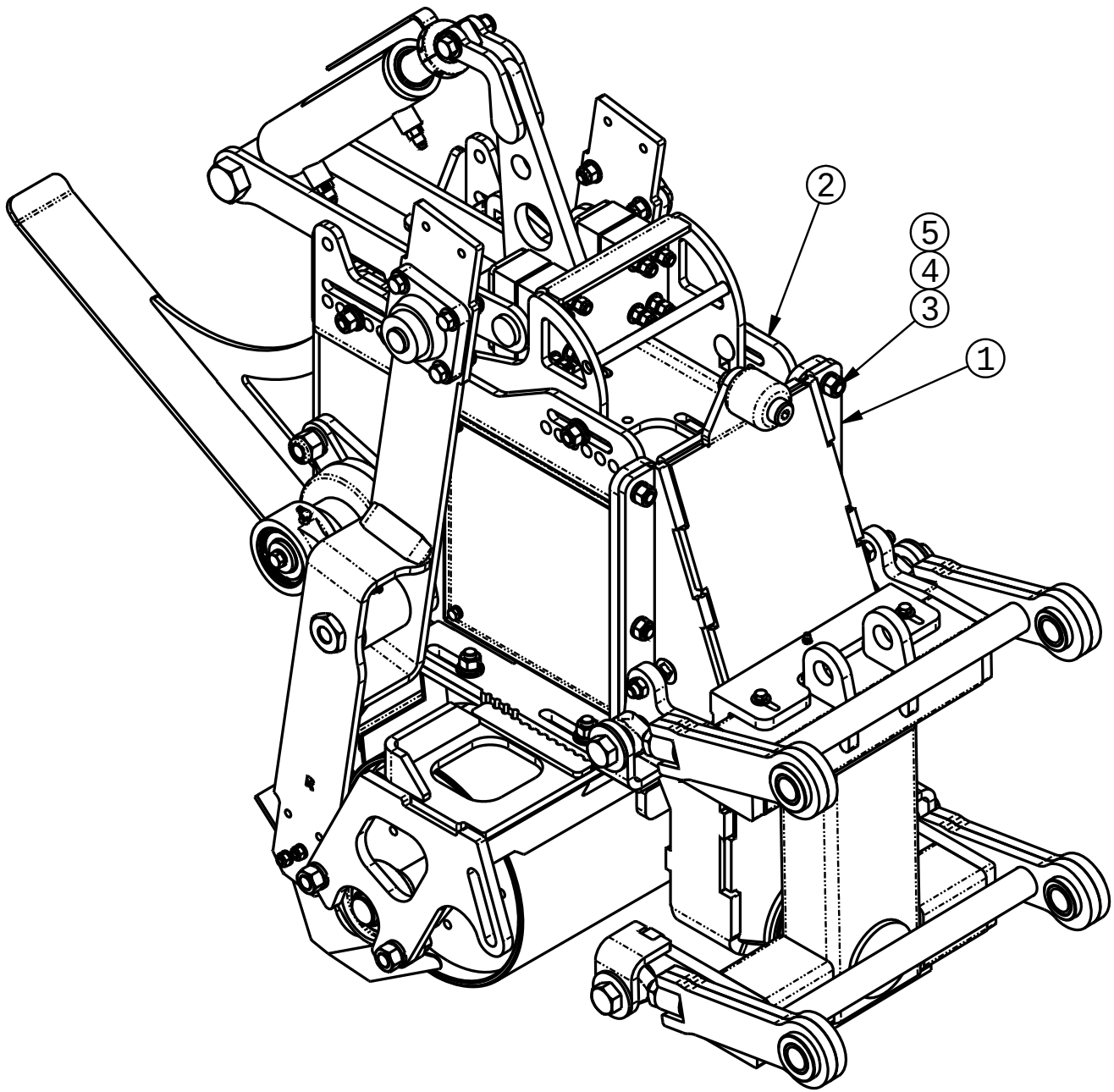
R500454 - 24 IN. - 10" LG Mesh Starter Tray Assembly

R500452 - 16 IN. - 10" LG Mesh Starter Tray Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001279	3	SPRING, SCRAPER BLADE
2	4139946	1	LINK ARM W/A LH
3	4139958	1	ROLLUP FLAG W/A
4	6115826	1	STARTER GATE 24"
	6115825	1	STARTER GATE 16/18"
5	6115857	1	LINK ARM W/A RH
6	6115861	2	STARTER TRAY STOP
7	6115892	1	ROD, STARTER TRAY PIVOT 24"
	6115891	1	ROD, STARTER TRAY PIVOT 16/18"
8	F020812	2	CARRIAGE BOLT 1/2 UNC x 1.1/4 LG
9	F040406	1	BOLT 1/4 UNC x 3/4 Gr 8
10	F040506	2	BOLT - 5/16 UNC x 3/4 Gr 8
11	F040620	4	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
12	F040624	2	HEX BOLT 3/8-16UNC x 2-1/2 LG.
13	F040824	2	BOLT - 1/2 UNC X 2 1/2 Gr 8
14	F050420	2	EYEBOLT 1/4"-20 UNC
15	F110610	4	SET SCREW - 3/8 UNC x 1 SQ HD CUP PT
16	F210600	4	HEX LOCK NUT - 3/8 -16 UNC
17	F210800	2	NUT-1/2 UNC NYLOC
18	F220600	4	HEX JAM NUT - 3/8 UNC
19	F230800	6	HEX NUT - 1/2 UNC - ZINC PLATED
20	F270800	2	1/2-20 UNF NYLOC JAM NUT
21	F310508	2	LOCK WASHER - 5/16 Gr 8
22	F310608	2	WASHER - 3/8 LOCK Gr 8
23	F320800	16	1/2 USS FLAT WASHER ZN PL
24	F330608	4	WASHER - 3/8 SAE Gr 8
25	F330800	5	1/2 SAE FLAT WASHER
26	F940116	2	HITCH PIN CLIP 1 3/16 IN. OAL 3/8 TO 1/2 SHAFT
27	G8084	2	QUICK LINK CHAIN 3/16
28	H101032	1	STARTER HANGER STRAP
29	KM11400	8	STRAIGHT GREASE FITTING
30	KS60002	3	BUMPER SPINDLE 3/8-UNC x 2.50 Lg 3.50 OAL
31	KX00616	2	CLEVIS PIN - 3/8 DIA X 1.75 LG. (ZINC COATED)
32	R101660	4	STARTER TRAY WEIGHT
33	R101803	2	MESH STARTER TRAY HANGER STRAP
34	R102004	1	MESH TRAY STRAP ADPATER - LH
35	R102005	1	MESH TRAY STRAP ADPATER - RH
36	R300366	3	CONVEYOR SUSPENDER ADJUSTER MESH TRAY
37	R300409	1	24" BROUWER MESH TRAY W/A (10" MESH LENGTH)
	R300415	1	16" BROUWER MESH TRAY W/A (10" MESH LENGTH)
38	R300410	1	OFFSET ARM W/A - LH (BROUWER MESH TRAY)
39	R300411	1	OFFSET ARM W/A - RH (BROUWER MESH TRAY)
40	R300412	1	24" PIVOT ROD W/A (10" LG BROUWER MESH TRAY)
	R300416	1	16" PIVOT ROD W/A (10" LG BROUWER MESH TRAY)

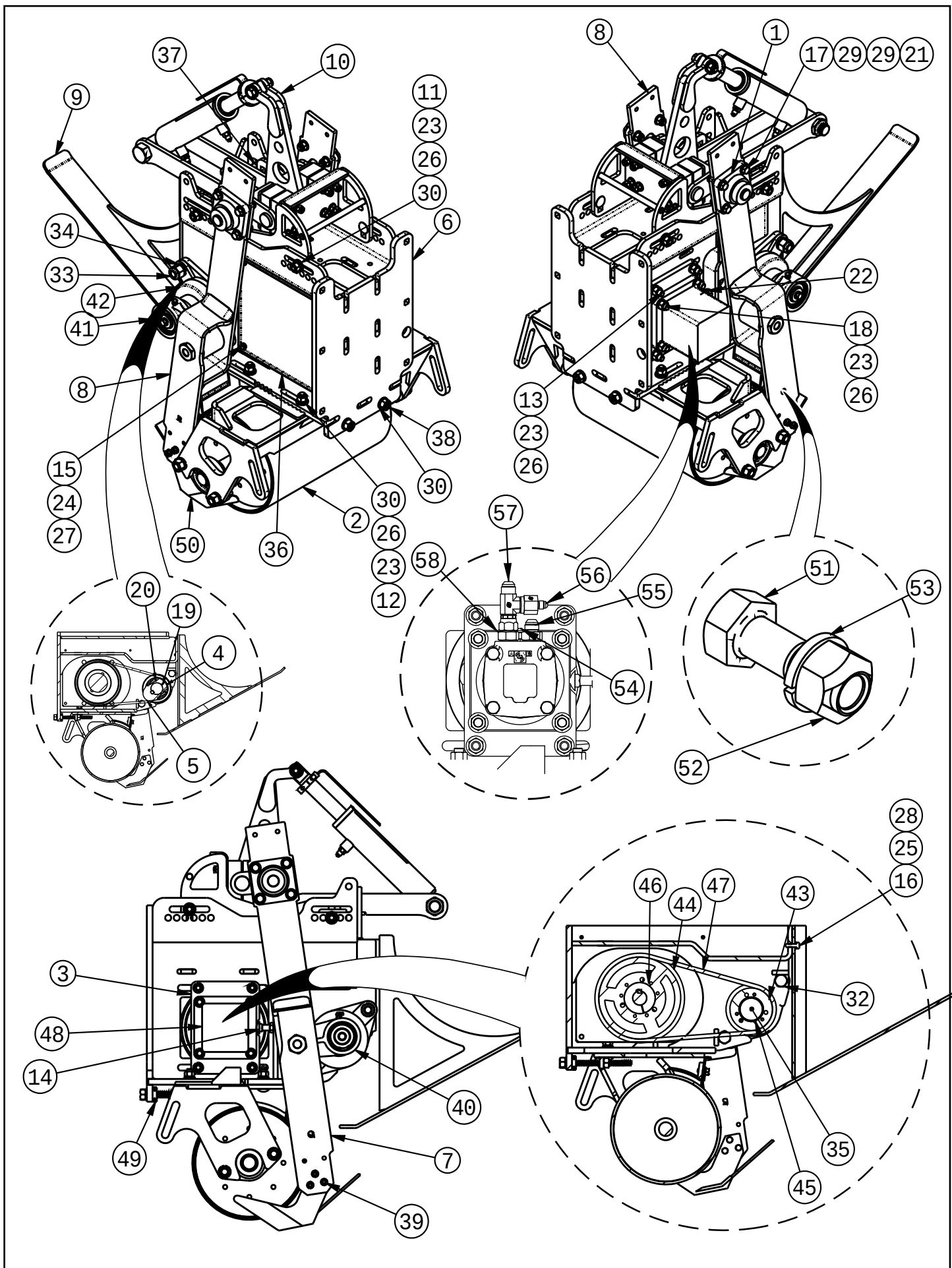
SECTION 2 CUTTER HEAD

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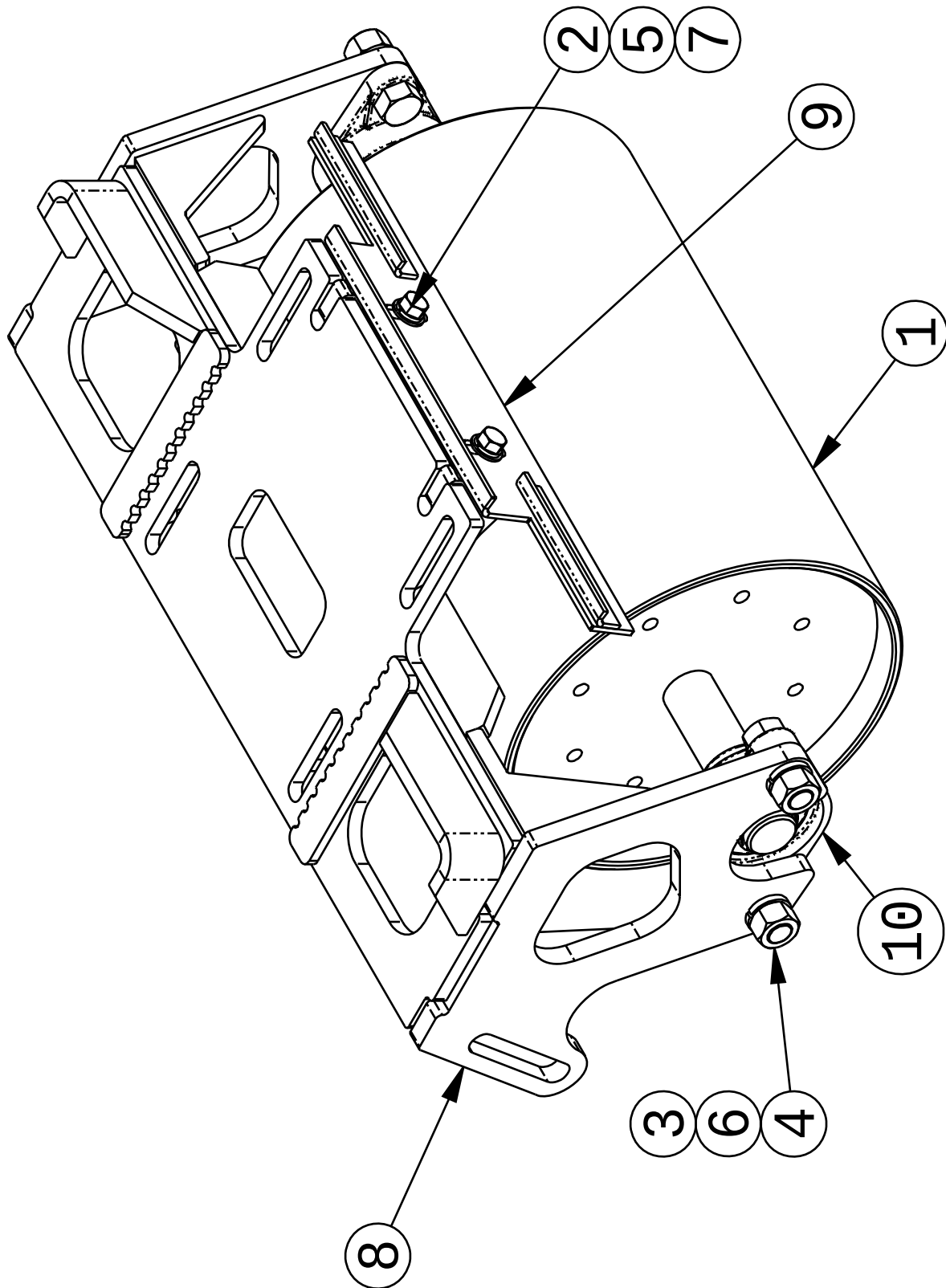
**Brouwer 4000 Sod Harvester
Cutter Head Linkage Assembly**

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B500076	1	SPINDLE AND HUB ASSEMBLY 16 IN.
	<u>B500077</u>	1	SPINDLE AND HUB ASSEMBLY 24 IN.
2	B500092	1	4000 HEAD ASSEMBLY 16 IN.
	<u>B500093</u>	1	4000 HEAD ASSEMBLY 24 IN.
3	<u>F020814</u>	6	CARRIAGE BOLT 1/2 UNC x 1.1/2 LG
4	<u>F230800</u>	6	HEX NUT - 1/2 UNC - ZINC PLATED
5	<u>F330800</u>	6	FLATWASHER SAE - 1/2



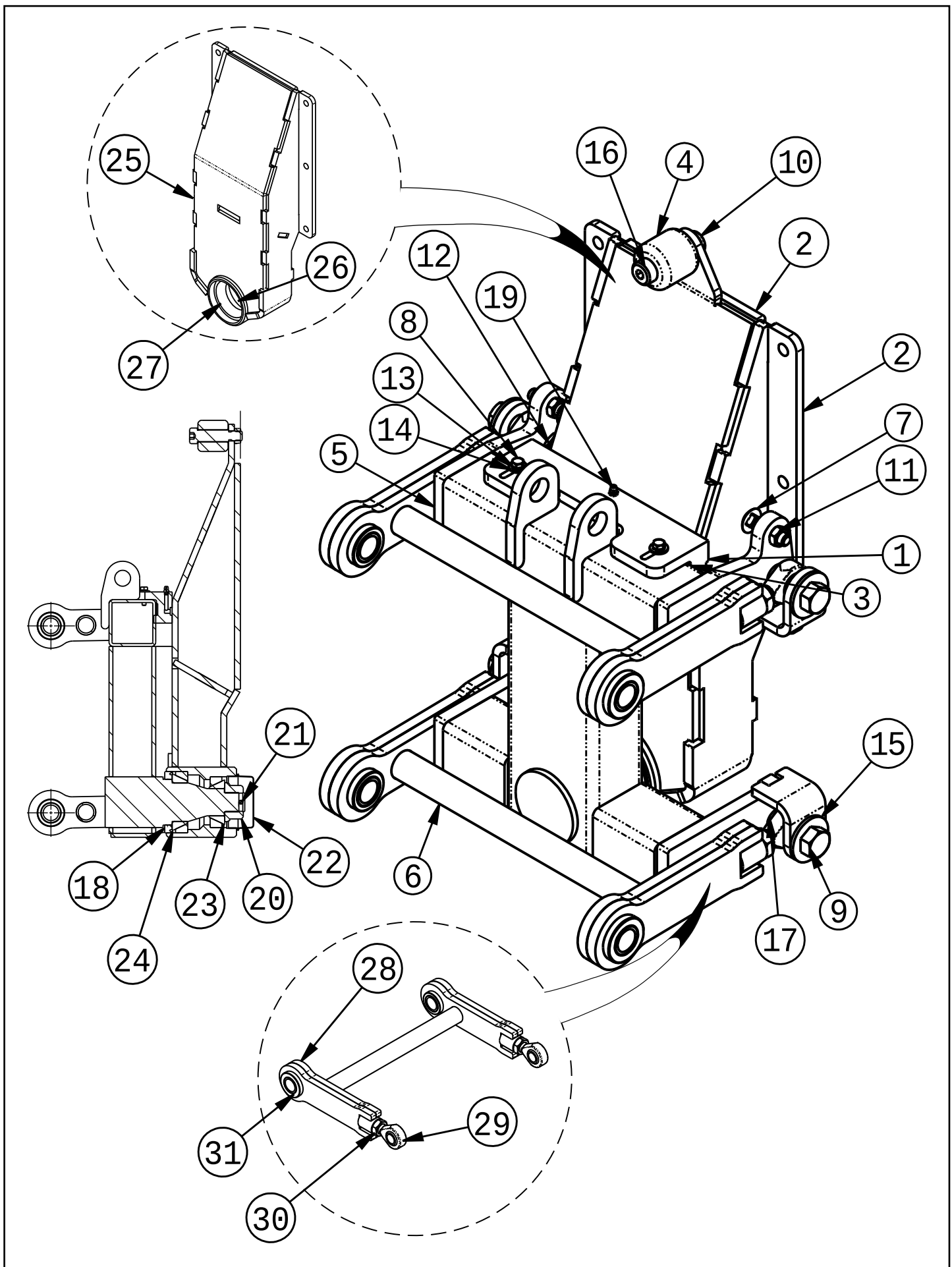
Brouwer 4000 Sod Harvester Cutter Head Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	55-FR22016	2	BEARING - 4 BOLT - 1.0 Dia
2	A500302	1	GROUND ROLLER ASSEMBLY 16 IN.
	A500303	1	GROUND ROLLER ASSEMBLY 24 IN.
3	B100239	1	MOTOR MOUNT PLATE
4	B100986	2	CRANK WEIGHT ATTACHMENT - NON CURRENT
5	B100987	2	CRANK WEIGHT - NON CURRENT
6	B300031	1	PIVOTING HEAD FRAME 16/18 IN. WELDMENT
7	B300155	1	CUTTER ARM LH 10 IN. DIA. ROLLER STANDARD BEARING
8	B300156	1	CUTTER ARM RH 10 IN. DIA. ROLLER STANDARD BEARING
9	B300171	1	SOD STABILITY BRACKET
10	B500196	1	DEPTH ADJUSTER ASSEMBLY 16 IN. BEARING
	B500197	1	DEPTH ADJUSTER ASSEMBLY 24 IN. BEARING
11	F020814	4	CARRIAGE BOLT 1/2 UNC x 1.1/2 LG
12	F020816	4	CARRIAGE BOLT - 1/2 UNC x 1.75 LG.
13	F020820	4	CARRIAGE BOLT 1/2 UNC x 2.0 LG
14	F020824	1	CARRIAGE BOLT - 1/2 -13 X 2.50 LG.
15	F040406	3	BOLT 1/4 UNC x 3/4 Gr 8
16	F040510	2	BOLT - 5/16 UNC x 1.0 Gr 8
17	F040716	8	BOLT - 7/16 UNC x 1 3/4 Gr 8
18	F040820	4	BOLT - 1/2 UNC x 2.0 Gr 8
19	F140503	2	SET SCREW - 5/16 -18 UNC x 3/8 CUP PT - NON CURRENT
20	F180610	4	SOC HD CAP - 3/8 UNC x 1.00 LG. - NON CURRENT
21	F210700	8	HEX LOCK NUT - 7/16 UNC
22	F220800	1	HEX JAM NUT - 1/2 - 13 UNC
23	F230800	16	HEX NUT - 1/2 UNC - ZINC PLATED
24	F310400	3	WASHER - 1/4 LOCK
25	F310500	2	LOCK WASHER - 5/16
26	F310800	16	LOCK WASHER - 1/2
27	F330400	3	1/4 SAE FLAT WASHER
28	F330500	2	5/16 SAE WASHER
29	F330700	16	7/16 SAE FLAT WASHER
30	F330800	10	1/2 SAE FLAT WASHER
31	F928810	2	KEY 1/2 x 1/2 x 1.00 LG. - NON CURRENT
32	G0818060	4	HEX BOLT M18-1.5 x 60 mm LG. GR 10.9 ZN PL
33	G211850	4	NYLOC NUT - M18 -1.5
34	G311800	4	LOCK WASHER - M18
35	H100015	1	CRANK SHAFT 16 IN. CUTTER
	H100155	1	CRANK SHAFT 24 IN. CUTTER
36	H100197	1	CUTTING HEAD BELT GUARD
37	H100594	2	SHIM, DEPTH ADJUSTER MTG
38	H300029	2	GROUND ROLLER ADJUSTER
39	H500200	6	CUTTER BLADE BOLT ASSEMBLY
40	H500373	1	CONNECTING ROD ASSEMBLY
41	H500373	1	CONNECTING ROD ASSEMBLY
42	KB32033	2	FLANGE BEARING 2.00 DIA. HEAVY HOUSING
43	KD33450	1	SHEAVE - TAPER LOCK, 3"3V" BELT x 4.45 PD - CURRENT
	KD22041	1	SPROCKET 41 TOOTH - NON CURRENT
44	KD33800	1	SHEAVE, TAPER LOCK, 3"3V" BELT x 8.00 PD - CURRENT
	KD22075	1	SPROCKET 75 TOOTH - NON CURRENT
45	KD52020	1	SPLIT TAPER LOCK BUSHING SDS-2.00 - CURRENT
	KD52050	1	TAPER LOCK BUSHING TB 2012 2 - NON CURRENT
46	B101437	1	MODIFIED 1.25 BUSHING W/ 5/16 KEY - CURRENT
	KD52051	1	TAPER BUSHING 1 1/4 - NON CURRENT
47	KD62401	1	BANDED 3 V-BELT 3VX - 400 - CURRENT
	KD61121	1	POLYCHAIN BELT - CUTTER MOTOR - NON CURRENT
48	KH30056	1	CUTTER MOTOR
49	KM10051	2	LOCK COLLAR - 0.50 IN. 2 PIECE
50	KR16030	1	CUTTER BLADE 16 IN. POINTED W/ FINGERS
	KR24030	1	CUTTER BLADE 24 IN. POINTED W/ FINGERS
51	F090510S	6	HEX HEAD 5/16-24 GR.8 1.00 LG. - 0.50 THREAD
52	F210558	6	TOP LOCK NUT 5/16-24
53	F310500	6	LOCK WASHER - 5/16
54	4-4-070120	1	FITTING #4 JIC TO #4 ORB - CURRENT FROM S/N 82
55	8-10-070120	1	FITTING - STRAIGHT THREAD O-RING - SAE 37° FLARE
56	8-4-070123	1	FITTING - REDUCER - SAE 37° (JIC) FLARE-TWIN - CURRENT FROM S/N 82
57	8-8-070432	1	FITTING 1/2 SWIVEL NUT RUN TEE - CURRENT FROM S/N 82
58	B500468	1	CUTTER MOTOR ORIFICE - CURRENT FROM S/N 82



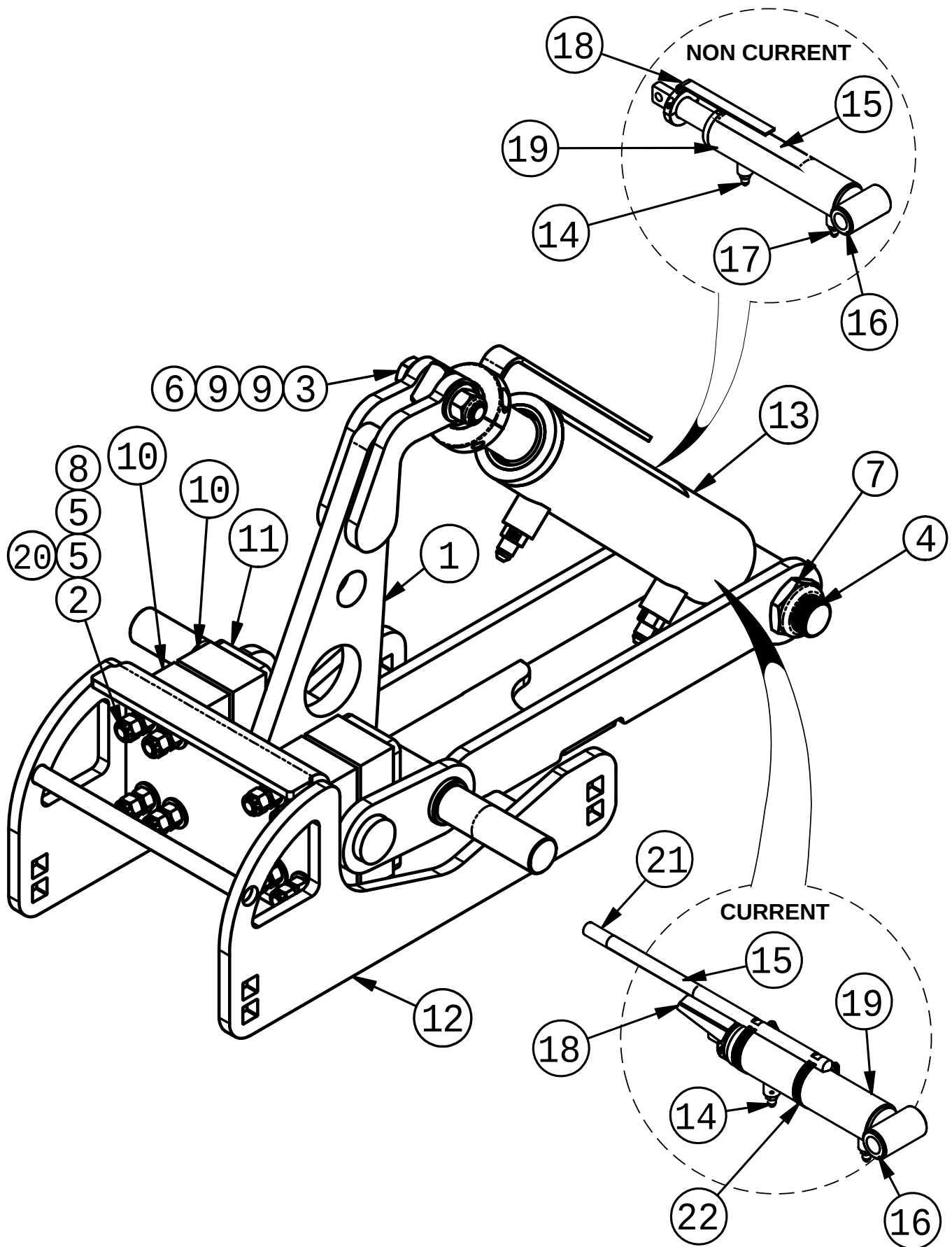
**Brouwer 4000 Sod Harvester
Ground Roller Assembly**

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>A300293</u>	1	GROUND ROLLER WELDMENT 10 IN. DIA. 16 IN. 2700
	<u>A300295</u>	1	GROUND ROLLER WELDMENT 10 IN. DIA. 24 IN. 2700
2	<u>F040606</u>	2	BOLT 3/8 UNC X 3/4 . Gr 8
3	<u>F081016</u>	4	HEX BOLT 5/8 -18 UNF X 1.75 LG. GR 8
4	<u>F231050</u>	4	5/8-UNF HEX NUT
5	<u>F310600</u>	2	LOCK WASHER - 3/8
6	<u>F311000</u>	4	LOCK WASHER - 5/8
7	<u>F330600</u>	2	FLAT WASHER SAE 3/8
8	<u>H300170</u>	1	ONE PIECE ROLLER BEARING BRACKET 16/18 IN. 10 IN. DIA.
	<u>H300171</u>	1	ONE PIECE ROLLER BEARING BRACKET 24 IN. 10 IN. DIA.
9	<u>H300197</u>	1	16 IN. SCRAPER BLADE WELDMENT 10 IN. DIA. ROLLER
	<u>H300199</u>	1	24 IN. SCRAPER BLADE WELDMENT 10 IN. DIA. ROLLER
10	<u>KB32020</u>	2	FLANGE BEARING 1.25 DIA. 2 BOLT



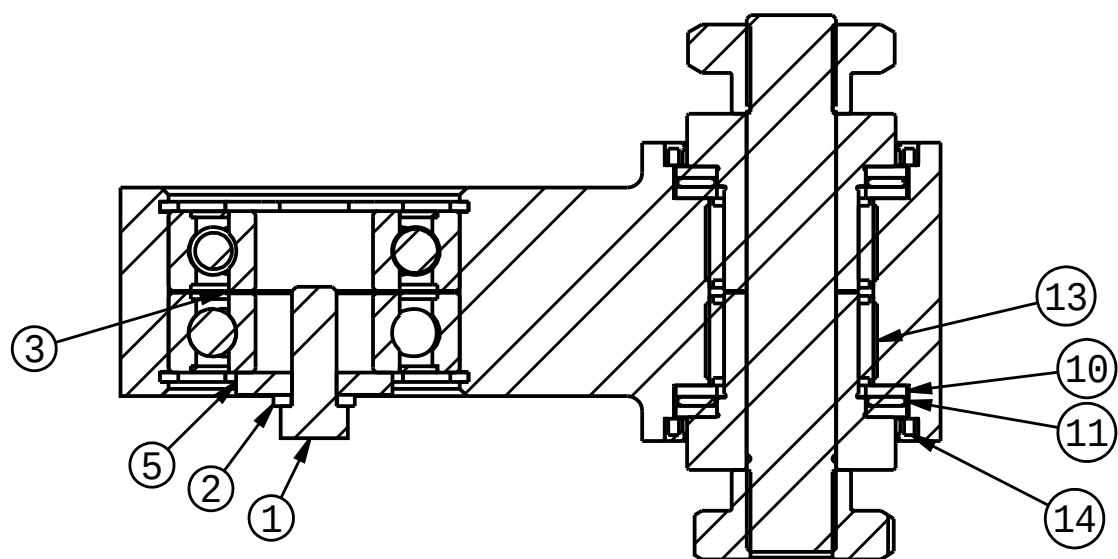
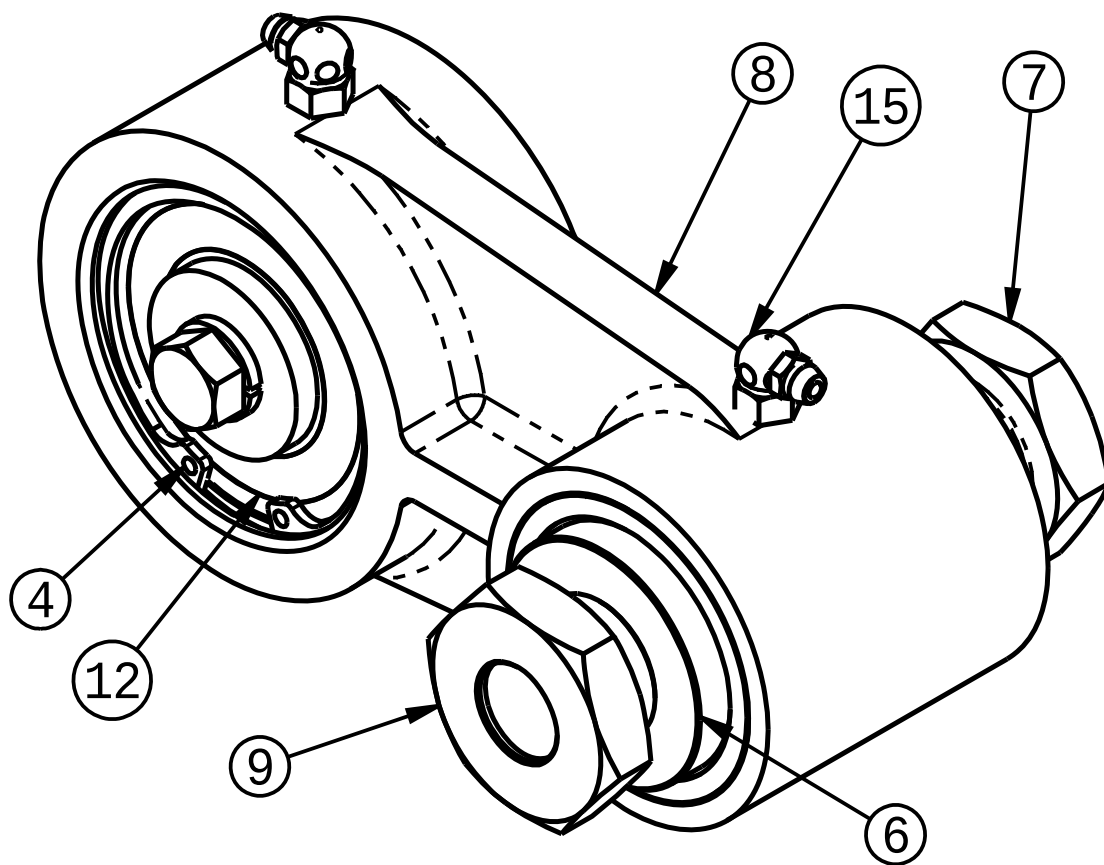
Brouwer 4000 Sod Harvester
Spindle and Hub Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	A100549	1	HEAD GUIDE LIFT SUPPORT
2	A500006	1	HUB SUB-ASSEMBLY CENTRE HEAD 16/18 IN.
	A500143	1	HUB ASSEMBLY 24 IN.
3	B100709	1	GUIDE BLOCK STIFFENER
4	B100994	1	HEAD GUIDE ROLLER
5	B300043	1	HEAD PIVOT SPINDLE WELDMENT
6	B500125	2	HEAD LINKAGE ASSEMBLY
7	F020820	2	CARRIAGE BOLT 1/2 UNC x 2.0 LG
8	F040410	2	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
9	F041230	4	BOLT - 3/4 UNC X 3.0 Gr 8
10	F211000	1	JAM NUT-5/8 UNC NYLOC
11	F220800	2	HEX JAM NUT - 1/2 - 13 UNC
12	F271200	4	HEX NUT - 3/4-10 UNC NYLOC JAM
13	F310400	2	WASHER - 1/4 LOCK
14	F320400	2	WASHER-1/4
15	F321200	4	FLAT WASHER - 3/4
16	F501220	1	SHOULDER BOLT - 3/4 x 2.00
17	H110623	8	TIE ROD BALL END SPACER (4WD NH)
18	KB90014	1	MULTI-LIP SEAL - 2.938 I.D.
19	KM11400	1	STRAIGHT GREASE FITTING
20	KX20002	1	SLOTTED HEX FLANGE NUT 1 1/4 -12
21	KX20003	1	COTTER PIN
22	KX20004	1	DUST CAP
23	KX20016	1	OUTER CONE 4T-25581
24	KX20018	1	INNER CONE 28995
25	A500015	1	HUB MOUNT WELDMENT CENTER HEAD 16/18 IN.
	A300211	1	HUB MOUNT WELDMENT INSIDE HEAD 24 IN.
26	KX20017	1	OUTER CUP 4T-25520
27	KX20019	1	INNER CUP 28921
28	B300149	1	HEAD LINKAGE WELDMENT
29	CM00121	2	ROD END MALE 3/4 UNF R.H.
30	F221250	2	HEX JAM NUT - 3/4 UNF
31	KB11616	4	IGUS BUSHING Q2 1.00 I.D. x 1.25 O.D. x 0.75 LG.



Brouwer 4000 Sod Harvester
Depth Adjuster Assembly

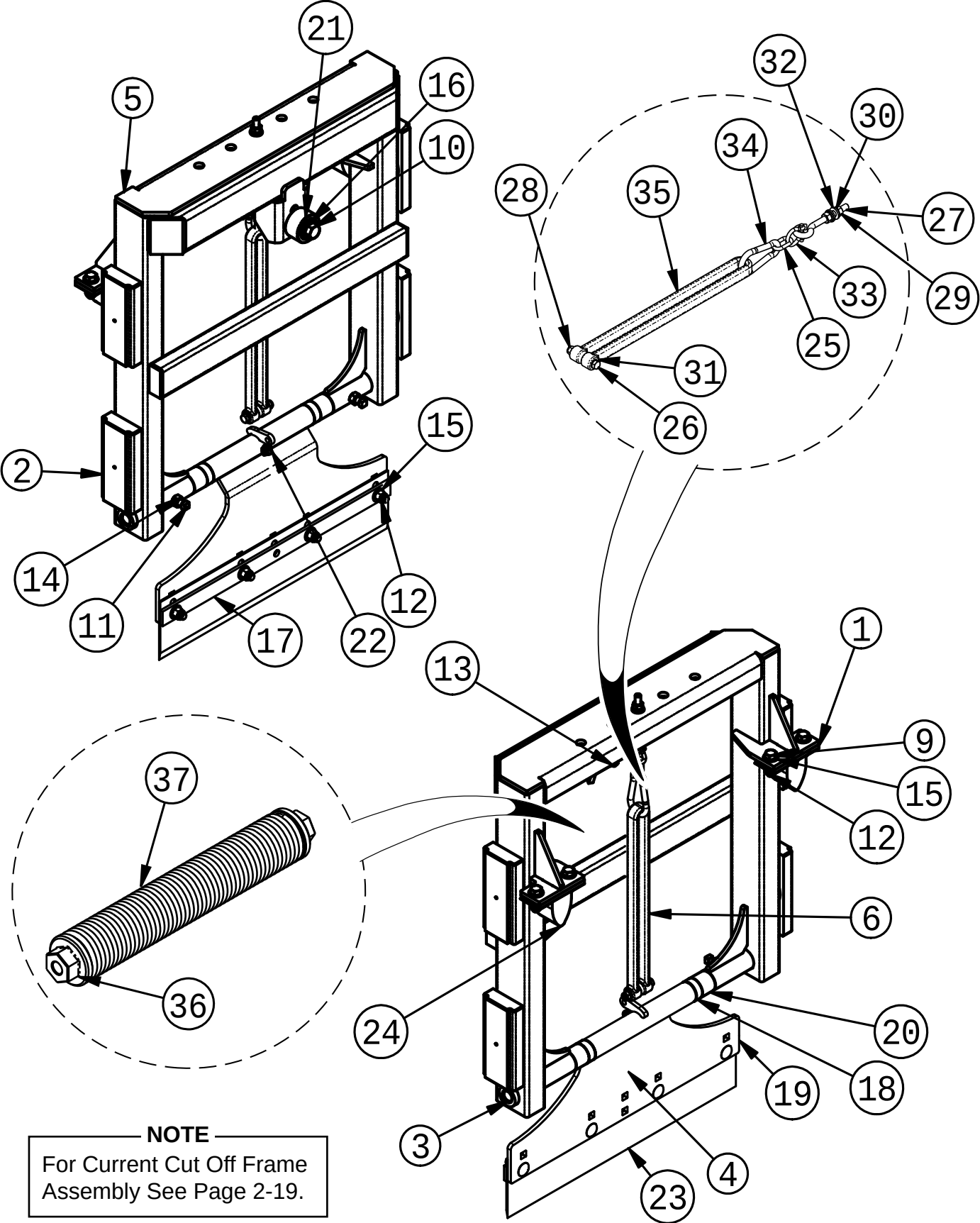
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B300208	1	TOP PIVOT 16 IN. BEARING
	B300209	1	TOP PIVOT 24 IN. BEARING
2	F020640	8	CARRIAGE BOLT - 3/8 -16 UNC x 4.00 LG.
3	F040822	1	BOLT - 1/2 UNC X 2 1/4 Gr 8
4	F081650	1	HEX BOLT - 1.00 -14 UNF x 5.00 GR 8
5	F210600	16	HEX LOCK NUT - 3/8 -16 UNC
6	F210800	1	NUT-1/2 UNC NYLOC
7	F271650	1	1.00-14 UNF NYLOC JAM NUT
8	F330600	8	FLAT WASHER SAE 3/8
9	F330800	2	1/2 SAE FLAT WASHER
10	H100028	2	PITCH ADJUST
11	H100029	2	PIVOT ADJUST CLAMP
12	H300008	1	PITCH ADJUST BRACKET 16/18 IN.
	H300032	1	PITCH ADJUST BRACKET 24 IN.
13	B500461	1	DEPTH CONTROL CYLINDER ASSY. - CURRENT
	H500075	1	DEPTH CONTROL CYLINDER ASSEMBLY - NON CURRENT
14	4-4-070120	2	FITTING - NO. 4 O-RING TO NO. 4 JIC
15	D001-055	1	DECAL DEPTH CONTROL
16	H100009	2	IGUS BUSHING
17	H100129	1	DEPTH CONTROL RESTRICTOR - NON CURRENT
18	B300277	1	CYLINDER DEPTH INDICATOR - CURRENT
	H300028	1	CYLINDER DEPTH INDICATOR HARVESTER - N/C
19	H500001	1	DEPTH CONTROL CYLINDER
20	F230600	8	NUT 3/8-16 (ONLY USED ON 24 IN.)
21	002447	1	DEPTH INDICATOR ROD - CURRENT
22	KU03025	2	GEAR CLAMP HS-44 - CURRENT



**Brouwer 4000 Sod Harvester
Connecting Rod Assembly**

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	F040610	1	BOLT - 3/8 UNC x 1.0 Gr 8
2	<u>F310600</u>	1	LOCK WASHER - 3/8
3	<u>F381014</u>	1	SHIM WASHER - 1.50 x 1.00 x 0.020 THK.
4	<u>F815244</u>	2	INTERNAL RETAINING RING - 2 7/16
5	<u>H100045</u>	1	RETAINER WASHER CONNECTING ROD
6	<u>H100245</u>	2	NEEDLE AXLE
7	<u>H100246</u>	1	NEEDLE NUT CONNECTING ROD
8	<u>H100672</u>	1	CONNECTING ROD CUTTER
9	<u>H300055</u>	1	TIE BOLT WELDMENT
10	<u>KB12031</u>	4	THRUST WASHER - 1.937 O.D. x 1.25 I.D.
11	<u>KB42031</u>	2	THRUST BEARING - 1.937 O.D. x 1.25 I.D.
12	<u>KB50002</u>	2	DEEP GROOVE BALL BEARING 25 mm
13	<u>KB51812</u>	2	NEEDLE ROLLER BEARING
14	<u>KH80011</u>	2	SHAFT SEAL - 1.75 I.D. x 2.125 O.D.
15	<u>KM11490</u>	2	GREASE FITTING - 1/4 -28 90°

Cut Off Frame Assembly - NON CURRENT up to Serial #40



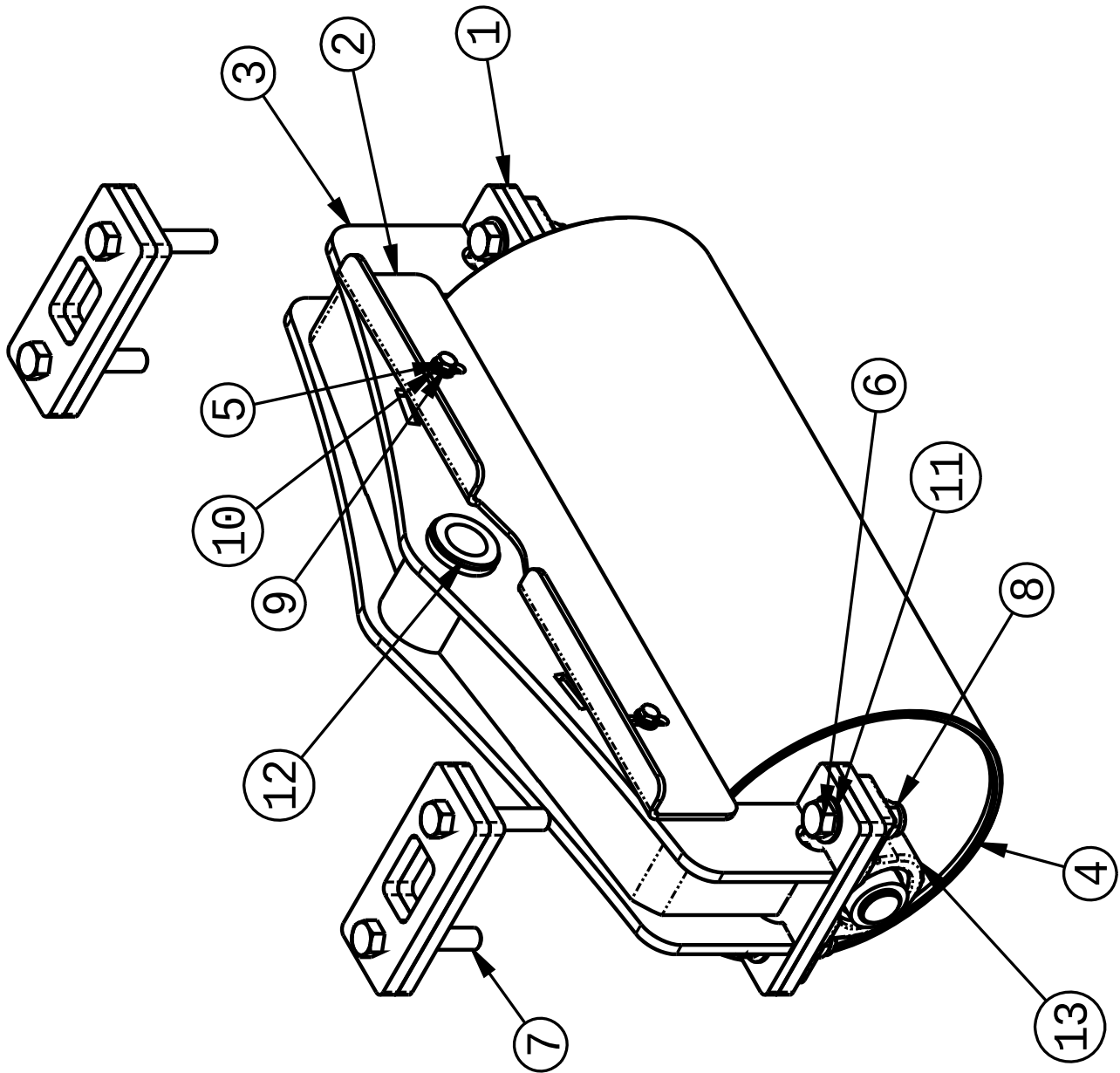
NOTE
For Current Cut Off Frame Assembly See Page 2-19.

Brouwer 4000 Sod Harvester
Cut Off Frame Assembly - NON CURRENT up to Serial #40

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4134973	2	UPPER BUMPER BRACKET
2	A100747	4	BED SCISSOR & CUT OFF SLIDER BLOCK
3	B100832	1	CUT OFF PIVOT SHAFT 16 IN.
	B100833	1	CUT OFF PIVOT SHAFT 24 IN.
4	B300238	1	BLADE HOLDER 16 IN. CURRENT FROM SERIAL #33
	B300239	1	BLADE HOLDER 24 IN. CURRENT FROM SERIAL #33
	B300048	1	BLADE HOLDER NON CURRENT UP TO SERIAL #32
	B100992	1	BLADE HOLDER 16 IN. NON CURRENT UP TO SERIAL #32
	B100993	1	BLADE HOLDER 24 IN. NON CURRENT UP TO SERIAL #32
5	B300142	1	CUT OFF FRAME 16 IN. - NON CURRENT UP TO SERIAL #40
	B300143	1	CUT OFF FRAME 24 IN. - NON CURRENT UP TO SERIAL #40
6	B500147	1	CUT OFF RETURN BUNGEE ASSEMBLY - N/C UP TO S/N 40
7	F020610	4	BOLT -3/8 UNC X 1 CAR. NON CURRENT UP TO SERIAL #32
8	F020612	5	CARRIAGE BOLT - 3/8 UNC x 1 1/4
9	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
10	F040824	1	BOLT - 1/2 UNC X 2 1/2 Gr 8
11	F110606	2	SET SCREW SQ HD CUP POINT
12	F210600	13	HEX LOCK NUT - 3/8 -16 UNC
13	F210800	1	NUT-1/2 UNC NYLOC
14	F230600	2	NUT - 3/8-16
15	F330600	17	FLAT WASHER SAE 3/8
16	F330800	3	1/2 SAE FLAT WASHER
17	H100110	1	BLADE CLAMP 16 IN.
	H100169	1	BLADE CLAMP 24 IN.
18	H100306	2	CASTOR PIVOT SPACER
19	H100469	1	BLADE HOLDER 16 / 18 IN.
20	H100511	2	FRONT FRAME SPACER
21	KB12127	1	CAM FOLLOWER 1.75 O.D.
22	KM11490	1	GREASE FITTING - 1/4 -28 90°
23	KR16001	1	CUT OFF BLADE
	KR24001	1	STRAIGHT CUT OFF BLADE 24 IN.
24	KS60001	2	BUMPER REBOUND
25	B101219	1	CHAIN LINK 3/16
26	F040420	1	HEX BOLT - 1/4-20 UNC x 1.00 GR.8
27	F050540	1	BENT EYE BOLT - 5/16 UNC x 4.0 OVERALL LENGHT
28	F210400	1	1/4-20 UNC NYLOC NUT
29	F230500	2	HEX NUT - 5/16-18 UNC
30	F310500	2	LOCKWASHER 5/16
31	F330400	2	1/4 SAE FLATWASHER
32	F330500	2	5/16 SAE WASHER
33	KC01002	1	3/16 SHACKLE - 1/2 TONNE WORKING LOAD
34	KC01035	1	FIREMAN SNAP 5/16 (8mm)
35	KM70024	1	POLYSTRAP 24 IN. RED
36	A100927	2	THREADED INSERT CUT OFF SPRING
37	B100333	1	EXTENSION SPRING CUT OFF

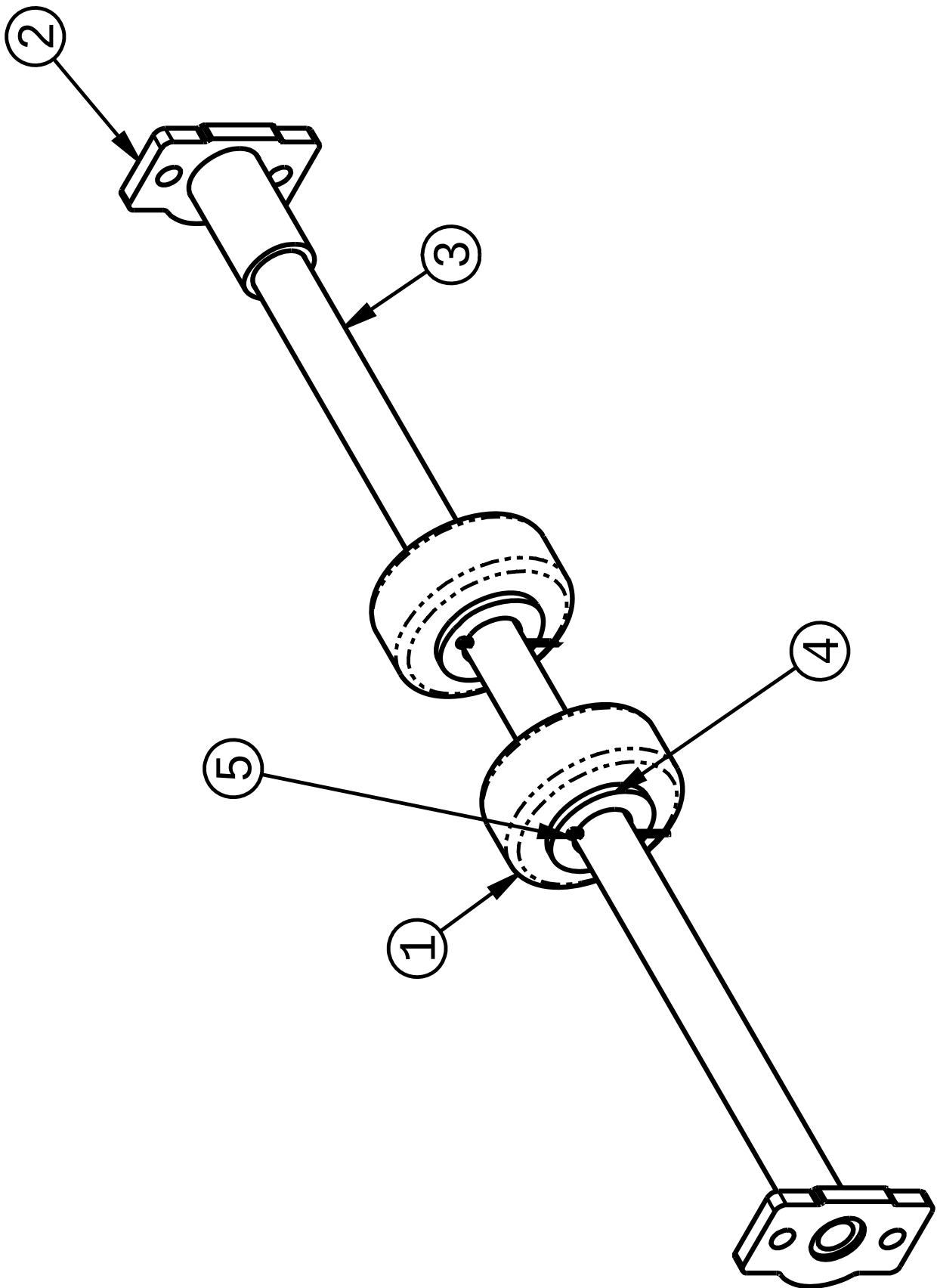
NOTE

For Current Cut Off Frame Assembly See Page 2-19.



Brouwer 4000 Sod Harvester
Front Roller Assembly

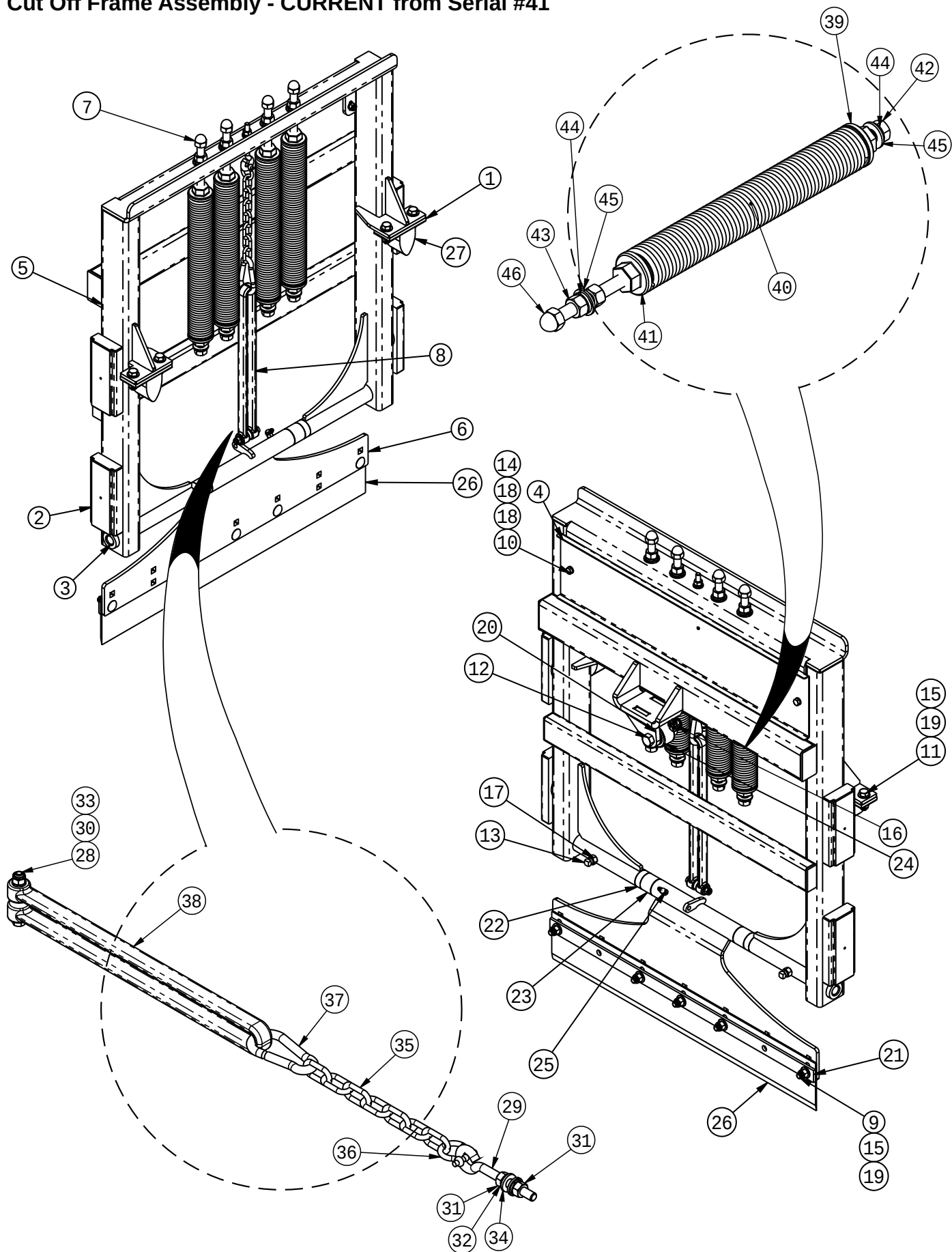
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B100327</u>	6	FRONT ROLLER SPACER PLATE
2	<u>B100931</u>	1	FRONT ROLLER SCRAPER 16 IN.
	<u>B100932</u>	1	FRONT ROLLER SCRAPER 24 IN.
3	<u>B300140</u>	1	FRONT ROLLER PIVOT BRACKET 16 IN.
	<u>B300141</u>	1	FRONT ROLLER PIVOT BRACKET 24 IN.
4	<u>B300144</u>	1	FRONT ROLLER WELDMENT 16 IN.
	<u>B300145</u>	1	FRONT ROLLER WELDMENT 24 IN.
5	<u>F040506</u>	2	BOLT - 5/16 UNC x 3/4 Gr 8
6	<u>F041024</u>	4	BOLT - 5/8 UNC X 2 1/2 Gr 8
7	<u>F041034</u>	4	HEX BOLT - 5/8 -11 UNC x 3.50 LG. GR 8
8	<u>F211000</u>	4	NUT-5/8 UNC NYLOC
9	<u>F310500</u>	2	LOCK WASHER - 5/16
10	<u>F330500</u>	2	5/16 SAE WASHER
11	<u>F331000</u>	8	FLAT WASHER SAE 5/8 IN.
12	<u>KB11631</u>	2	REACH ARM FLANGED BUSHING
13	<u>KB30017</u>	2	PILLOW BLOCK BEARING 1.25 BORE



Brouwer 4000 Sod Harvester
Blade Rebound Wheel Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B101278</u>	2	BLADE REBOUND WHEEL
2	<u>B300210</u>	1	BLADE REBOUND COLLAR WELDMENT
3	<u>B300211</u>	1	BLADE REBOUND SHAFT 16 IN.
	<u>B300212</u>	1	BLADE REBOUND SHAFT 24 IN.
4	<u>F331200</u>	4	SAE FLAT WASHER - 3/4"
5	<u>F910114</u>	4	COTTER PIN 1/16 DIA X 1.50 LG

Cut Off Frame Assembly - CURRENT from Serial #41

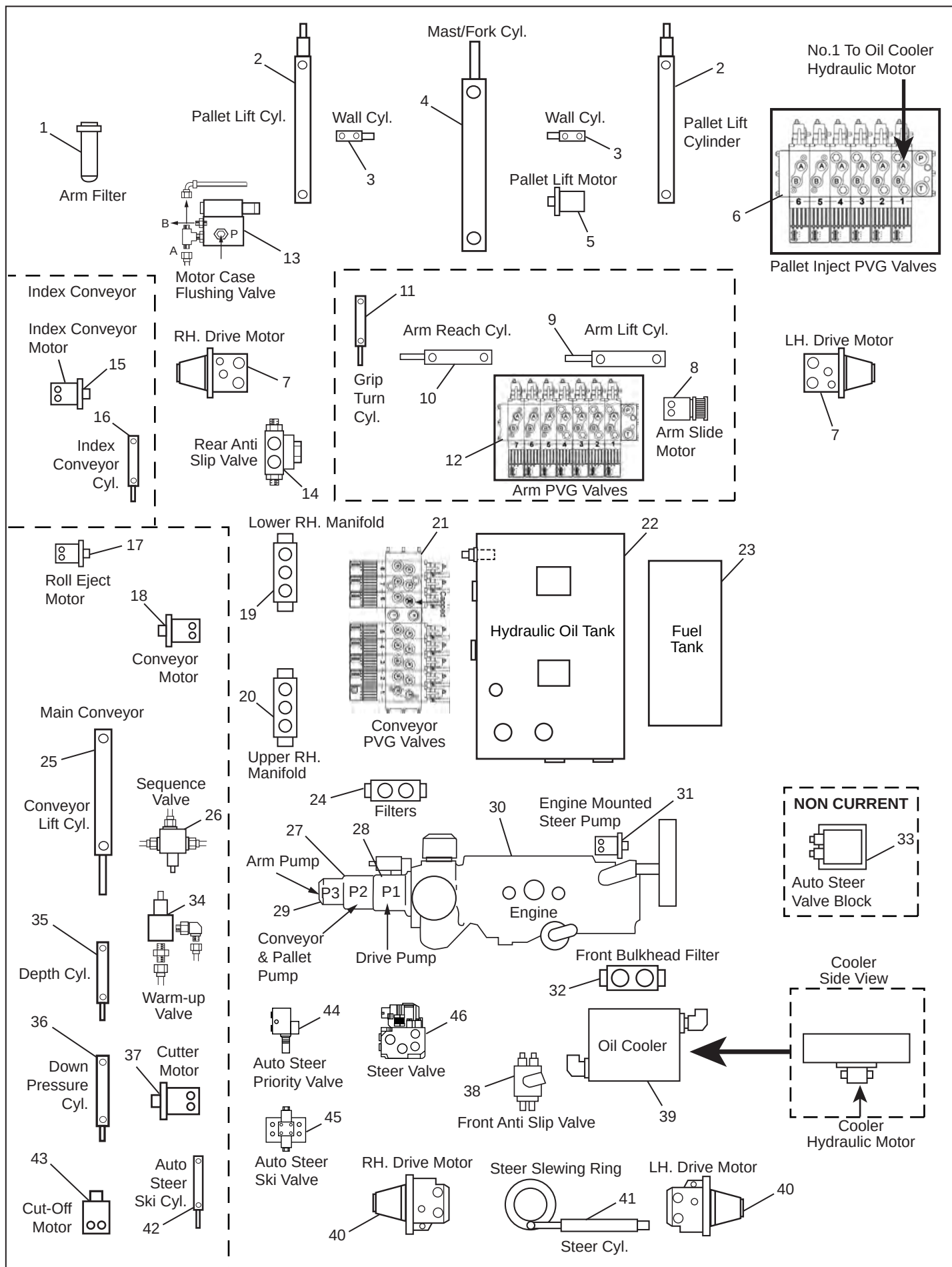


Brouwer 4000 Sod Harvester
Cut Off Frame Assembly - CURRENT from Serial # 41

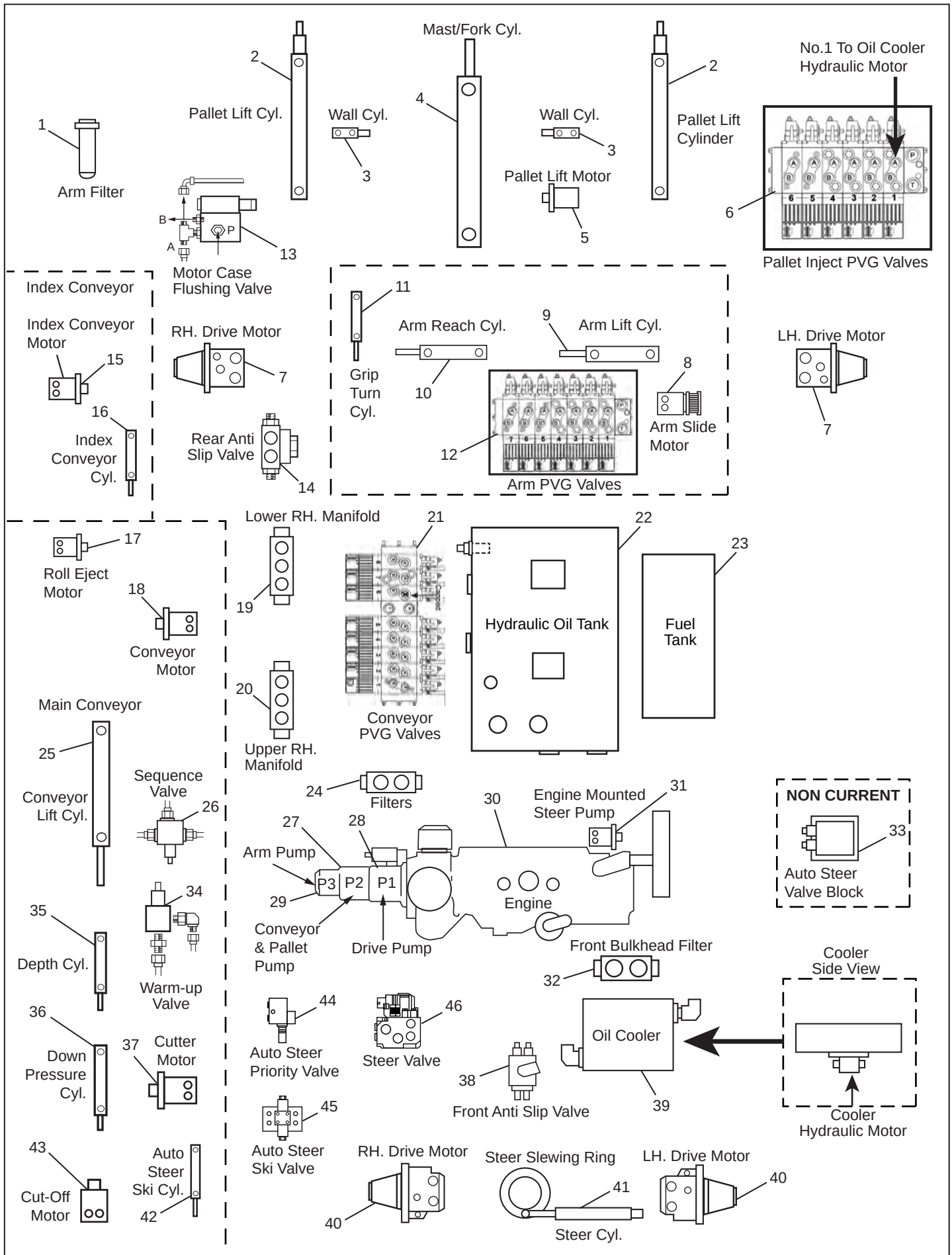
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4134973	2	UPPER BUMPER BRACKET
2	A100747	4	BED SCISSOR & CUT OFF SLIDER BLOCK
3	B100833	1	CUT OFF PIVOT SHAFT 24 IN.
	B100832	1	CUT OFF PIVOT SHAFT 16 IN.
4	B101368	1	CUT OFF UPPER GUARD 24 IN. - CURRENT from Serial # 41
	B101367	1	CUT OFF UPPER GUARD 16 IN. - CURRENT from Serial # 41
5	B300229	1	CUT OFF FRAME 24 IN. EXTENDED - CURRENT from Serial # 41
	B300228	1	CUT OFF FRAME 16 IN. EXTENDED - CURRENT from Serial # 41
6	B300239	1	BLADE HOLDER 24 IN.
	B300238	1	BLADE HOLDER 16 IN.
7	B500241	4	CUT OFF SPRING ASSEMBLY
8	B500246	1	CUT OFF RETURN BUNGEE ASSEMBLY - CURRENT from Serial # 41
9	F020612	5	CARRIAGE BOLT - 3/8 UNC x 1 1/4
10	F040406	2	BOLT 1/4 UNC x 3/4 Gr 8
11	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
12	F040826	1	HEX HEAD 1/2 -13 UNC x 2.75 LG. GR 8
13	F110606	2	SET SCREW SQ HD CUP POINT
14	F210400	2	1/4-20 UNC NYLOC NUT
15	F210600	9	HEX LOCK NUT - 3/8 -16 UNC
16	F210800	1	NUT-1/2 UNC NYLOC
17	F230600	2	NUT - 3/8-16
18	F330400	4	1/4 SAE FLAT WASHER
19	F330600	13	FLAT WASHER SAE 3/8
20	F330800	3	1/2 SAE FLAT WASHER
21	H100169	1	CUT OFF BLADE CLAMP 24 IN.
	H100110	1	BLADE CLAMP
22	H100306	2	CASTOR PIVOT SPACER
23	H100511	2	FRONT FRAME SPACER
24	KB12127	1	CAM FOLLOWER 1.75 O.D.
25	KM11490	1	GREASE FITTING - 1/4 -28 90°
26	KR24001	1	STRAIGHT CUT OFF BLADE - 24 IN.
	KR16001	1	CUT OFF BLADE
27	KS60001	2	BUMPER REBOUND
28	F040420	1	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
29	F050540	1	BENT EYE BOLT - 5/16 UNC x 4.0 OVERALL LENGTH
30	F210400	1	1/4-20 UNC NYLOC NUT
31	F230500	2	HEX NUT - 5/16-18 UNC
32	F310500	2	LOCK WASHER - 5/16
33	F330400	2	1/4 SAE FLAT WASHER
34	F330500	2	5/16 SAE WASHER
35	H100294	1	DROP CHAIN
36	KC01002	1	3/16 SHACKLE - 1/2 TONNE WORKING LOAD
37	KC01035	1	FIREMAN SNAP 5/16 (8 mm)
38	KS70024	1	POLYSTRAP 24 IN. RED
39	A100927	4	THREADED INSERT CUT OFF SPRING
40	B101366	4	ADJUSTABLE EXTENSION SPRING CUT OFF - CURRENT from S/N 41
41	B300230	4	UPPER SPRING TENSIONER - CURRENT from Serial # 41
42	F040812	4	BOLT - 1/2 UNC X 1 1/4 Gr 8
43	F230800	8	HEX NUT - 1/2 UNC - ZINC PLATED
44	F310800	8	LOCK WASHER - 1/2
45	F330800	8	1/2 SAE FLAT WASHER
46	F460800	4	ACORN NUT 1/2 -13 UNC NYLON 6-6

SECTION 3 HYDRAULIC SYSTEM

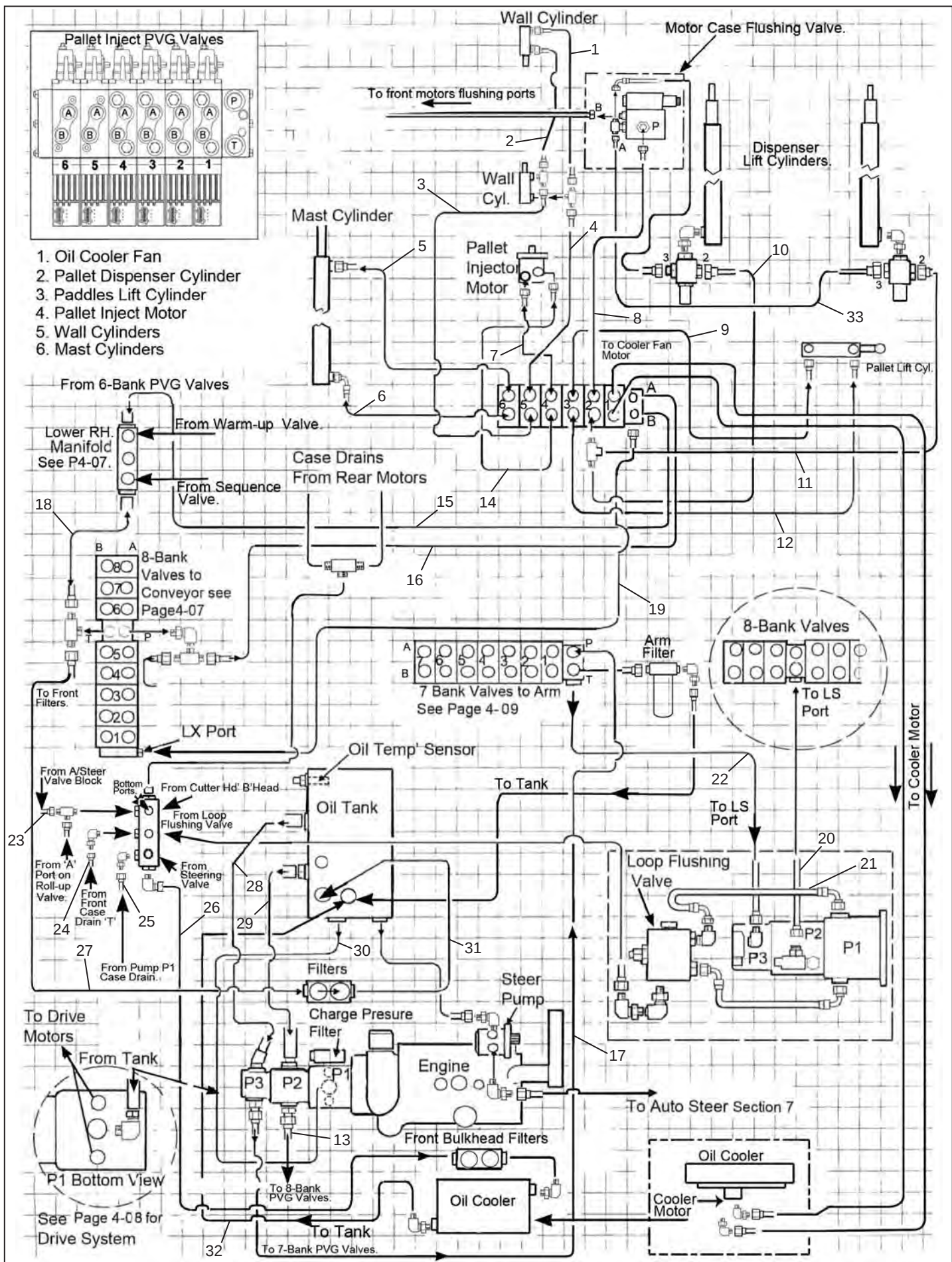
Hydraulic System – Components	3-01
Hydraulic System – Main Frame. Hose Assemblies	3-05
Hydraulic System – Main Frame. Fittings	3-07
Hydraulic System – Main Conveyor. Hose Assemblies	3-11
Hydraulic System – Main Conveyor. Fittings	3-13
Hydraulic System – Drive System. Hose Assemblies	3-15
Hydraulic System – Drive System. Fittings	3-17
Hydraulic System – Robotic Arm. Hose Assemblies	3-19
Hydraulic System – Robotic Arm. Fittings	3-21
Hydraulic Tank Assembly	3-23
Hydraulic Valve Banks	3-25
Filters	3-27



ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System Components	
1	<u>KH40090</u>	Arm Filter Assembly	1
	<u>KH40091</u>	Arm Filter Element	1
	<u>KH40091</u>	Arm Filter Head	1
2	<u>B500086</u>	Pallet Lift Cylinder Assembly	2
	<u>KH70128</u>	Seal Kit. Pallet Lift Cylinder	1
3	<u>4128723</u>	Wall Cylinder	2
		Seal Kit. Wall Cylinder	1
4	<u>A500003</u>	Mast/Fork Cylinder	1
		Seal Kit. Mast/Fork Cylinder	1
5	<u>KH30027</u>	Pallet Lift Motor	1
6	<u>KH20240</u>	6-Bank Valve Block	1
7	<u>KH30054</u>	Drive Motor - Back	2
8	<u>KH30056</u>	Arm Side Motor	1
9	<u>B5002186</u>	Arm Lift Cylinder Assembly - Current from Serial # 35	1
		Seal Kit. Arm Lift Cylinder	1
	<u>B500089</u>	Arm Lift Cylinder Assembly - Non Current up to Serial # 34	1
10	<u>B500217</u>	Reach Arm Cylinder Assembly - Current from Serial # 35	1
	<u>B500212</u>	Reach Arm Cylinder	1
	<u>B500090</u>	Arm Reach Cylinder Assembly - Non Current up to Serial # 34	1
	<u>KH70122</u>	Seal Kit. Arm Reach Cylinder	1
	<u>KH70125</u>	Sensor. Arm Reach Cylinder	1
11	<u>R500012</u>	Grip Turn Cylinder	1
	<u>KH70114</u>	Seal Kit. Grip Turn Cylinder	1
12	<u>KH20239</u>	7-Bank Valve Block	1
13	<u>KH20242</u>	Motor Case Flushing Valve	1
14	<u>KH20236</u>	Rear Anti Slip Valve	1
15	<u>KH30007</u>	Index Conveyor Motor	1
16	<u>4131860</u>	Index Conveyor Cylinder	1
		Seal Kit. Index Conveyor Cylinder	1
17	<u>KH30007</u>	Roll Eject Motor	1
18	<u>KH30088</u>	Conveyor Motor with Speed Sensor - Current from Serial # 103	1
	<u>KH30089</u>	Speed Sensor - Current from Serial # 103	1
	<u>KH30007</u>	Conveyor Motor - Non Current up to Serial # 102	1
	<u>KH70054</u>	Seal Kit. Hydraulic Motor - Conveyor	1
19	<u>KH20126</u>	Lower RH. Manifold	1
20	<u>KH20243</u>	Upper RH. Manifold	1
21	<u>KH20241</u>	8-Bank Valve Block	1
22	<u>B500475</u>	Hydraulic Tank Assembly (6 Mounts) - Current from Serial # 101	1
	<u>B500005</u>	Hydraulic Tank Assembly - Non Current up to Serial # 100	1
23	<u>B500007</u>	Fuel Tank	1
24	<u>KH40080</u>	Filter Head	2
	<u>KH40081</u>	Filter Gauge	2
	<u>KH40082</u>	Filter Element	2
25	<u>B500136</u>	Conveyor Lift Cylinder	1
	<u>KH70110</u>	Seal Kit. Conveyor Lift Cylinder	1
26	<u>KH20277</u>	Sequence Valve	1
27	<u>KH30058</u>	Conveyor & Pallet Pump (Aux Pump)	1
28	<u>KH30055</u>	Drive Pump	1
29	<u>KH30057</u>	Arm Pump	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System Components	
30	<u>KD40087</u>	Engine. Cat C4.4 Tier 4F - 147 HP	1
	<u>KD40076</u>	Engine. Cat 4.4TA Stage III LRC	1
	<u>KD40104</u>	Engine. Cat 3.6 - Stage V - Tier IV	1
31	<u>KH30081</u>	Engine Mounted Steer Pump - Tier III (11 Tooth)	1
	<u>KD40086</u>	Adaptor - Tier III (11 Tooth)	1
	<u>KH80016</u>	Gasket	1
	<u>KH30083</u>	Engine Mounted Steer Pump - Tier IV 4.4 Engine	1
	<u>KH80016</u>	Gasket	1
	<u>KH30087</u>	Engine Mounted Steer Pump - Tier IV 3.6 Engine	1
	<u>KH80017</u>	Gasket	1
	<u>KH30062</u>	Engine Mounted Steer Pump - Non Current	1
32	<u>KH40080</u>	Front Bulkhead Filter Head	2
	<u>KH40081</u>	Filter Gauge	2
	<u>KH40082</u>	Filter Element	2
33	<u>KH20232</u>	Auto-Steer Valve Block - Non Current up to Serial # 35	1
34	<u>KH20129</u>	Warm-up Valve Body	1
	<u>KH20245</u>	Relief Valve	1
35	<u>H500075</u>	Depth Cylinder Assembly	1
	<u>KH70144</u>	Seal Kit. Depth Cylinder	1
36	<u>B500046</u>	Down Pressure Cylinder	1
	<u>KH70067</u>	Seal Kit. Down Pressure Cylinder	1
37	<u>KH30056</u>	Cutter Motor	1
38	<u>KH20236</u>	Front Anti Slip Valve	1
39	<u>KH40104</u>	Oil Cooler - Current on Serial # 67, 74 & 78 and up	1
	<u>KH40062</u>	Oil Cooler - Non Current	1
	<u>KH40092</u>	Oil Cooler - Non Current	1
40	<u>KH30054</u>	Drive Motor - Front	2
41	<u>B500020</u>	Steering Cylinder Assembly	1
	<u>KH70121</u>	Seal Kit. Steering Cylinder	1
	<u>KH70124</u>	Sensor. Steering Cylinder	1
42	<u>B500047</u>	Ski Cylinder	1
	<u>KH70133</u>	Seal Kit. Ski Cylinder	1
43	<u>KH30027</u>	Cut-Off Motor	1
44	<u>KH20294</u>	Auto Steer Priority Valve - Current from Serial # 36	1
45	<u>KH20313</u>	Auto Steer Ski Valve - Current	1
46	<u>KH20293</u>	Steer Valve - Current	1



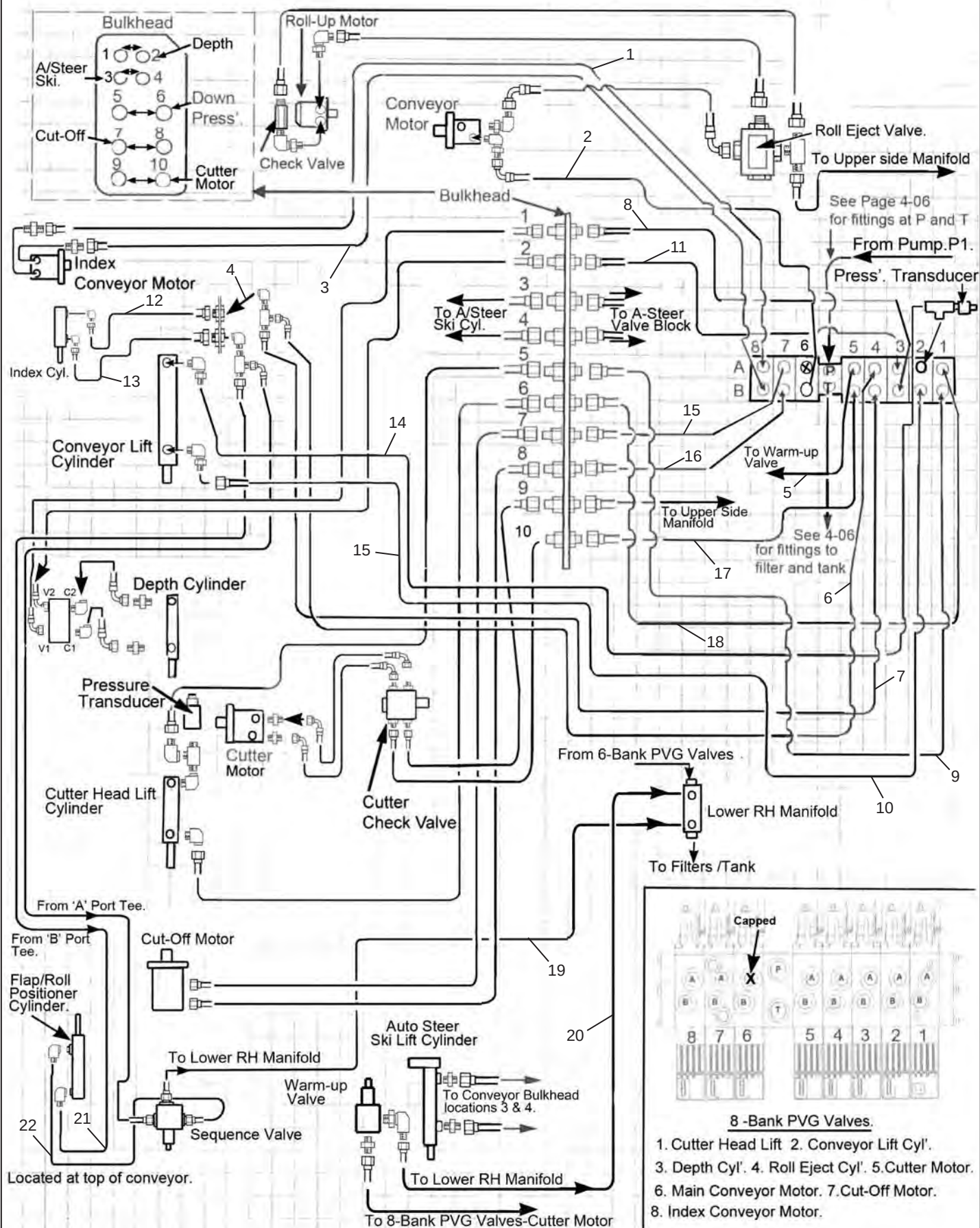
ITEM NO.	PART NO.	DESCRIPTION	QTY
Brouwer 4000 Sod Harvester Hydraulic System - Main Frame - Hoses			
1	<u>B200056</u>	Hose Assembly. Tee to Wall Cylinder	1
2	<u>B200055</u>	Hose Assembly. Wall Cylinder to Tee	1
3	<u>B200052</u>	Hose Assembly. Tee to 6 Bank Valves	1
4	<u>B200051</u>	Hose Assembly. 6 Bank Valves to Tee	1
5	<u>B200057</u>	Hose Assembly. 6 Bank Valves to Mast Cylinder	1
6	<u>B200058</u>	Hose Assembly. Mast Cylinder to 6 Bank Valves	1
7	<u>B200064</u>	Hose Assembly. 6 Bank Valves to Pallet Injector Motor	1
8	<u>B200199</u>	Hose Assembly. 6 Bank Valves to Motor Case Flushing Valve	1
9	<u>B200063</u>	Hose Assembly. 6 Bank Valves to Pallet Lift Cylinder	1
10	<u>B200059</u>	Hose Assembly. Counter Balance Valve to 6 Bank Valves	1
11	<u>B200029</u>	Hose Assembly. Counter Balance Valve to Tee	1
12	<u>B200062</u>	Hose Assembly. Pallet Lift Cylinder to 6 Bank Valves	1
13	<u>B200125</u>	Hose Assembly. P2 Pump to 8 Bank Valves	1
14	<u>B200065</u>	Hose Assembly. Pallet Injector Motor to 6 Bank Valves	1
15	<u>B200176</u>	Hose Assembly. 6 Bank Valves to Lower R.H. Manifold	1
16	<u>B200066</u>	Hose Assembly. Tee to 6 Bank Valves	1
17	<u>B200016</u>	Hose Assembly. 7 Bank Valves to P3 Pump	1
18	<u>B200164</u>	Hose Assembly. Lower R.H. Manifold to Tee	1
19	<u>B200066</u>	Hose Assembly. 8 Bank Valves to 6 Bank Valves	1
20	<u>B200019</u>	Hose Assembly. P2 Pump to 8 Bank Valves	1
21	<u>B200024</u>	Hose Assembly. P1 Pump to Loop Flushing Valve	1
22	<u>B200021</u>	Hose Assembly. P3 Pump to 7 Bank Valves	1
23	<u>B200168</u>	Hose Assembly. Auto-Steer Valve Block to Tee	1
24	<u>B200171</u>	Hose Assembly. Case Drain Tee to Upper R.H. Manifold	1
25	<u>B200172</u>	Hose Assembly. P1 Pump to Upper R.H. Manifold	1
26	<u>B200200</u>	Hose Assembly. Upper R.H. Manifold to Front Bulkhead Filters	1
27	<u>B200078</u>	Hose Assembly. Tee to Filters	1
28	<u>B200158</u>	Hose Assembly. P3 Pump to Oil Tank	1
29	<u>B200157</u>	Hose Assembly. Oil Tank to P2 Pump	1
30	<u>B200159</u>	Hose Assembly. Oil Tank to P1 Pump	1
31	<u>B200077</u>	Hose Assembly. Filters to Oil Tank	1
32	<u>B200162</u>	Hose Assembly. Oil Cooler to Oil Tank	1
33	<u>B200060</u>	Hose Assembly. Motor Case Flushing Valve to Counter Balance Valve	1



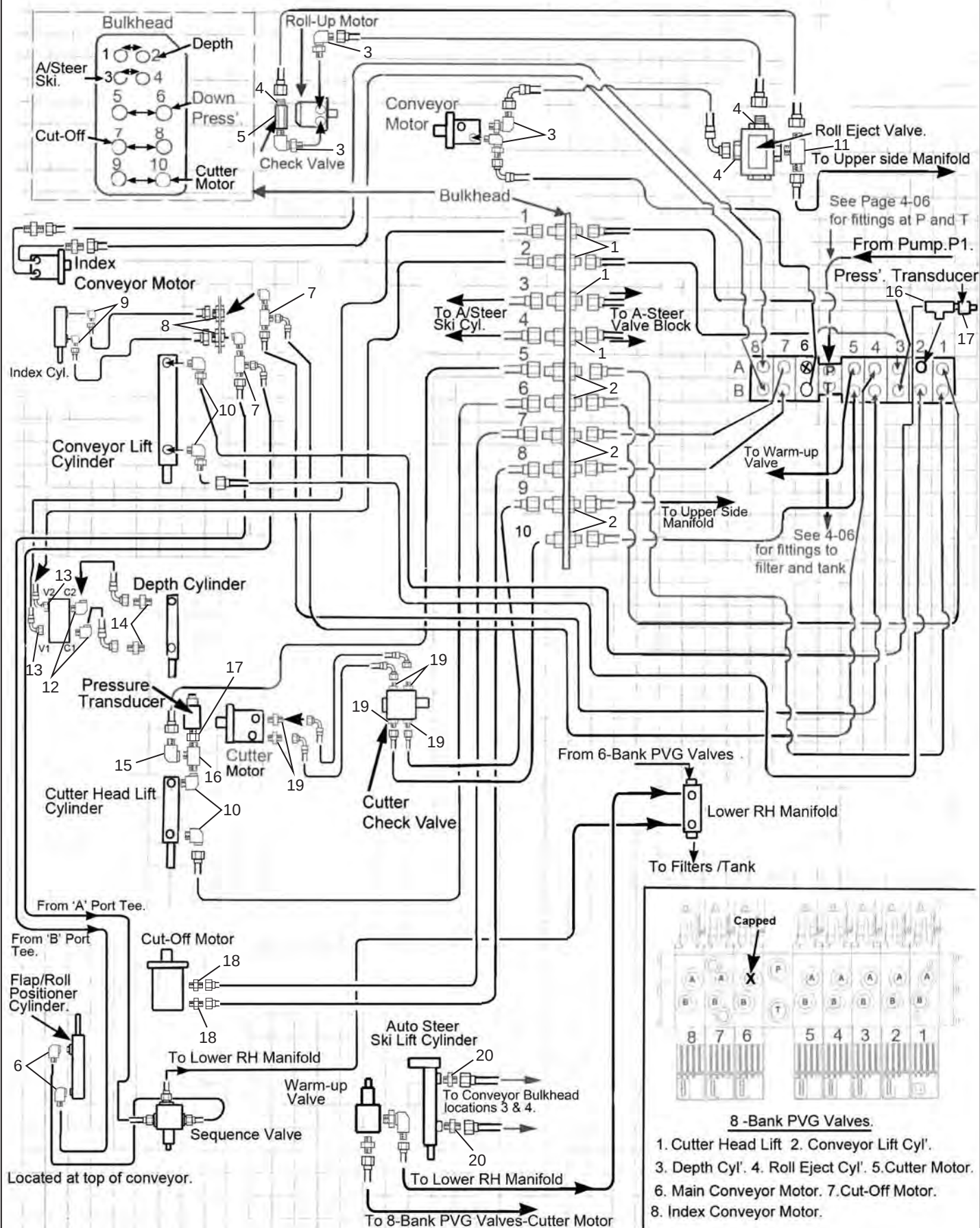
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System - Main Frame - Fittings	
1	<u>6-6-6-070220</u>	Fitting. 3/8 Striaight Thread O-Ring 90 Deg. Elbow	2
2	<u>6-8-070120</u>	Fitting. 3/8 Striaight Thread O-Ring	2
3	<u>6-6-070433</u>	Fitting. No.6 Swivel Nut Branch Tee	1
4	<u>6-10-070120</u>	Fitting. 3/8 Straight Thread O-Ring	1
5	<u>6-6-6-070429</u>	Fitting. 3/4 Striaight Thread O-Ring Run Tee	2
6	<u>8-8-070220</u>	Fitting. 1/2 Striaight Thread O-Ring 90 Deg. Elbow	5
7	<u>8-8-070181</u>	Fitting.	1
8	<u>4-4-070220</u>	Fitting. 1/4 Striaight Thread O-Ring 90 Deg. Elbow	2
9			
10			
11	<u>8-10-070220</u>	Fitting. 1/2 Striaight Thread O-Ring 90 Deg. Elbow	1
12	<u>8-10-070120</u>	Fitting. 1/2 Straight Thread O-Ring	1
13			
14	<u>12-12-070320</u>	Fitting. 3/4 Striaight Thread O-Ring 45 Deg. Elbow	1
15	<u>8-8-070120</u>	Fitting. 1/2 Straight Thread O-Ring	2
16	<u>8-090109A</u>	Plug. 1/2 Straight Thread O-Ring Hex Head	1
17	<u>16-12-070120</u>	Fitting. 1 in. Straight Thread O-Ring	1
18			
19	<u>6-6-6-070429</u>	Fitting. 3/4 Striaight Thread O-Ring Run Tee	1
20	<u>KH00168</u>	Fitting.	1
21	<u>20-20-20-070401</u>	Fitting.	1
22			
23			
24			
25			
26			
27			
28			
29	<u>KH00133</u>		2
30	<u>KH100310</u>		1
31	<u>KH00311</u>		2
32	<u>KH00173</u>		1
33	<u>KH00186</u>		2
34	<u>KH00333</u>		1
35	<u>8-8-070221</u>	Fitting. 1/2 Swivel Nut 90 Deg. Elbow	1
36			
37	<u>8-8-520120</u>	Fitting. 1/2 Standard Thread O-Ring	1
38	<u>20-16-430292</u>	Fitting. 1 1/4 Beaded Tube Hose End 90 Deg.	2
39	<u>6-4-070120</u>	Fitting. 3/8 Straight Thread O-Ring	1
40	<u>6-4-070220</u>	Fitting. 3/8 Straight Thread O-Ring 90 deg. Elbow	1
41	<u>8-6-520220</u>	Fitting.	1
42	<u>8-6-520120</u>	Fitting.	1
43	<u>16-12-070220</u>	Fitting. 1 in. Straight Thread O-Ring 90 Deg. Elbow	1
44	<u>KH00333</u>		1
45	<u>10-10-070220</u>	Fitting. 5/8 Straight Thread O-Ring 90 Deg. Elbow	1
46	<u>10-10-10-070432</u>	Fitting.	1
47	<u>KH00329</u>		1
48	<u>KH00328</u>		1
49	<u>KH00169</u>		1
50	<u>KH00325</u>		3
51	<u>KH00106</u>		3



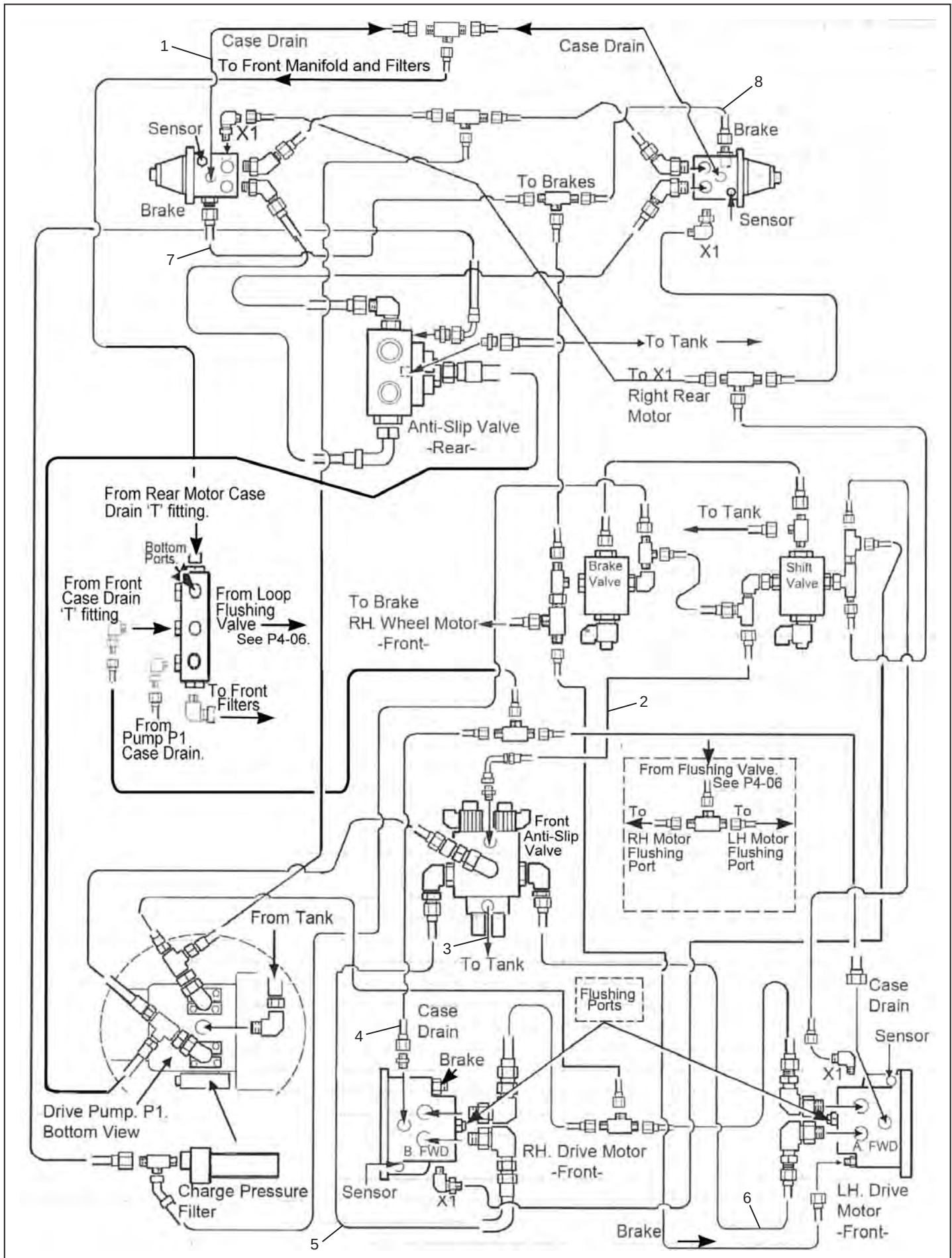
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System - Main Frame - Fittings	
52	<u>20-16-070123</u>	Fitting.	2
53	<u>16-16-16-070432</u>	Fitting.	2
54	<u>12-16-070220</u>	Fitting. 3/4 Straight Thread O-Ring 90 Deg. Elbow	1
55	<u>KH00105</u>		2
56	<u>KH00164</u>		
57	<u>KH00108</u>		1
58	<u>KH00324</u>		1
59	<u>KH00103</u>		1



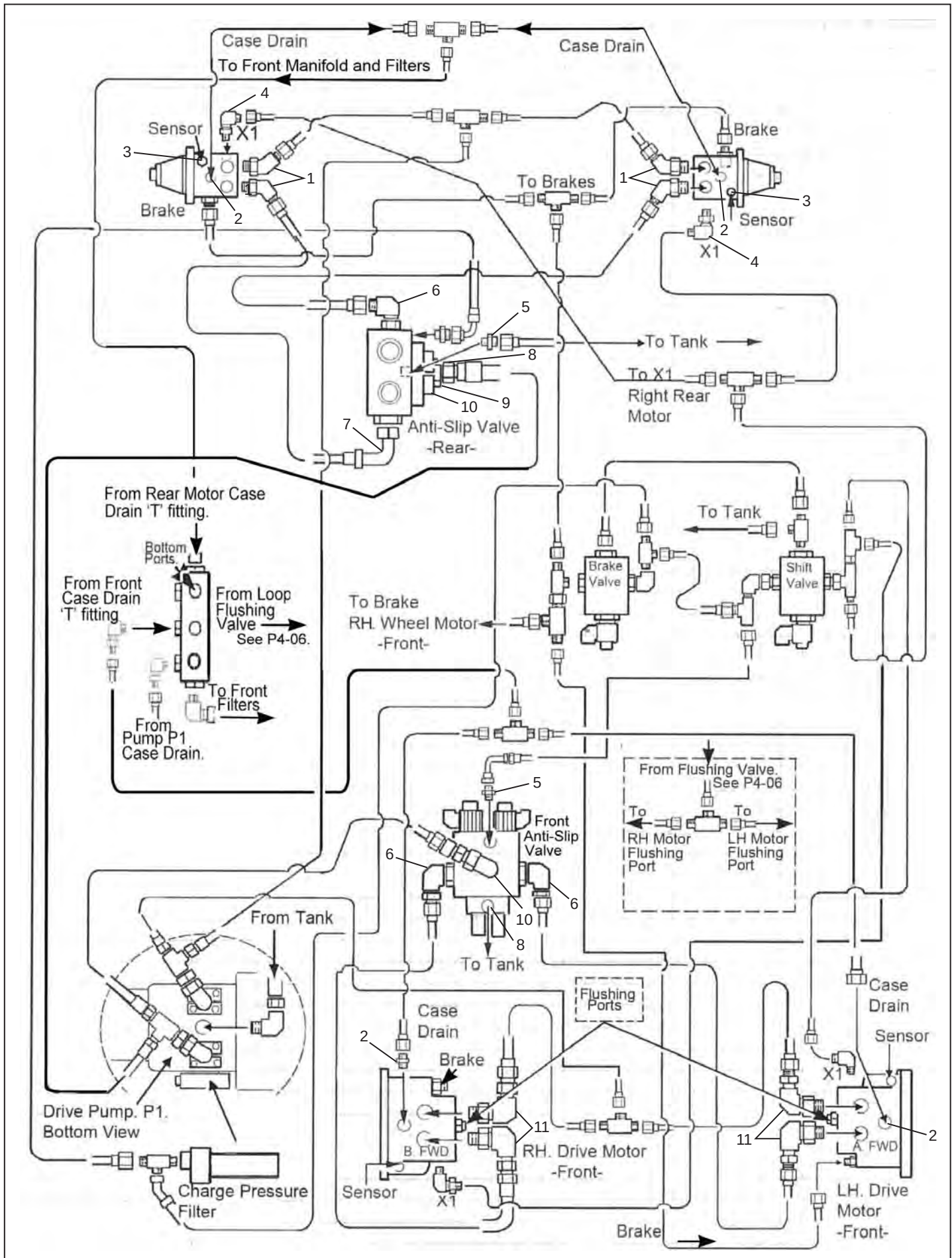
ITEM NO.	PART NO.	DESCRIPTION	QTY
Brouwer 4000 Sod Harvester Hydraulic System - Main Conveyor - Hoses			
1	<u>B200010</u>	Hose Assembly. 8 Bank Valves to Index Conveyor Motor	1
2	<u>B200030</u>	Hose Assembly. Index Conveyor Motor to 8 Bank Valves	1
3	<u>B200011</u>	Hose Assembly. Conveyor Motor to 8 Bank Valves	1
4	<u>B200027</u>	Hose Assembly.	1
5	<u>B200020</u>	Hose Assembly. 8 Bank Valves to Warm up Valve	1
6	<u>B200025</u>	Hose Assembly. 8 Bank Valves to Index Conveyor Tee	1
7	<u>B200026</u>	Hose Assembly. Index Conveyor Tee to 8 Bank Valves	1
8	<u>B200116</u>	Hose Assembly. Bulkhead to 8 Bank Valves	1
9	<u>B200195</u>	Hose Assembly. Bulkhead to 8 Bank Valves	1
10	<u>B200112</u>	Hose Assembly. Conveyor Lift Cylinder to 8 Bank Valves	1
11	<u>B200117</u>	Hose Assembly. 8 Bank Valves to Bulkhead	1
12	<u>B200028</u>	Hose Assembly.	1
13	<u>B200027</u>	Hose Assembly.	1
14	<u>B200194</u>	Hose Assembly. 8 Bank Valves to Conveyor Lift Cylinder	1
15	<u>B200122</u>	Hose Assembly. 8 Bank Valves to Bulkhead	1
16	<u>B200121</u>	Hose Assembly. Bulkhead to 8 Bank Valves	1
17	<u>B200120</u>	Hose Assembly. Bulkhead to 8 Bank Valves	1
18	<u>B200118</u>	Hose Assembly. 8 Bank Valves to Bulkhead	1
19	<u>B200191</u>	Hose Assembly. Sequence Valve to Lower R.H. Manifold	1
20	<u>B200015</u>	Hose Assembly. Warm-up Valve to Lower R.H. Manifold	1
21	<u>B200193</u>	Hose Assembly. Tee to Flap Roll Positioner Cylinder	1
22	<u>B200191</u>	Hose Assembly. Flap Roll Positioner Cylinder to Sequence Valve	1



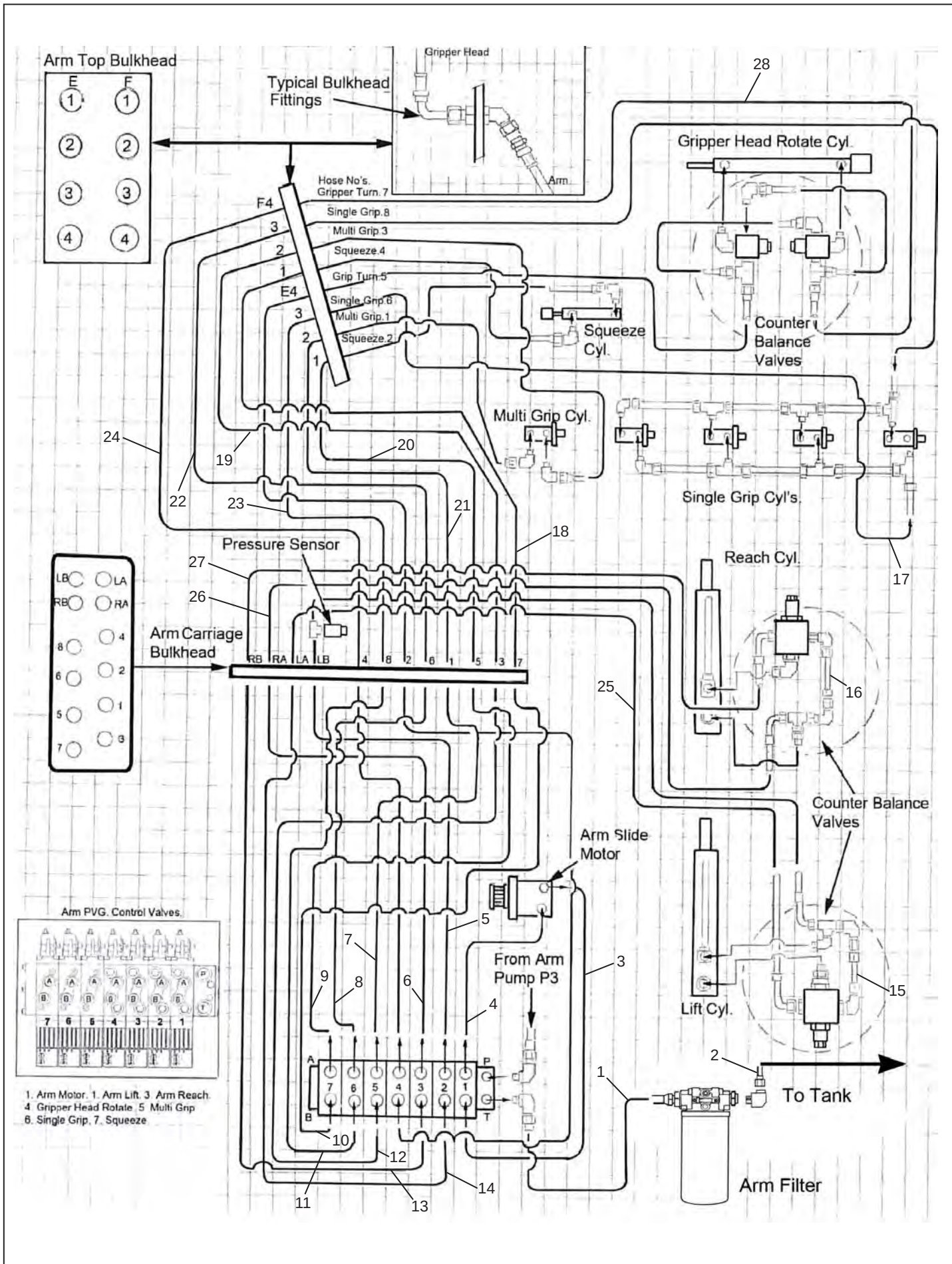
ITEM NO.	PART NO.	DESCRIPTION	QTY
Brouwer 4000 Sod Harvester Hydraulic System - Main Conveyor - Fittings			
1	<u>4-4-070601</u>	Fitting. 1/4 Bulkhead Union	4
2	<u>8-8-070601</u>	Fitting. 1/2 Bulkhead Union	6
3	<u>8-10-070220</u>	Fitting. 1/2 Striaight Thread O-Ring 90 Deg. Elbow	4
4	<u>8-8-070120</u>	Fitting. 1/2 Straight Thread O-Ring	3
5	<u>8-8-070181</u>	Fitting.	1
6	<u>6-4-070220</u>	Fitting. 3/8 Striaight Thread O-Ring 90 Deg. Elbow	5
7	<u>6-6-6-070432</u>	Fitting. 3/8 Swivel Nut Run Tee	2
8	<u>6-070701</u>	Fitting. 3/8 Bulkhead Union	2
9	<u>6-6-070220</u>	Fitting. 3/8 Striaight Thread O-Ring 90 Deg. Elbow	2
10	<u>8-6-070220</u>	Fitting. 1/2 Striaight Thread O-Ring Elbow	3
11	<u>8-8-8-070424</u>	Fitting. 1/2 Male Tee Run	1
12	<u>4-6-070220</u>	Fitting. 1/4 Striaight Thread O-Ring 90 Deg. Elbow	2
13	<u>4-6-070120</u>	Fitting. 1/4 Straight Thread O-Ring	2
14	<u>4-4-070120</u>	Fitting. 1/4 Straight Thread O-Ring	2
15	<u>8-8-070222</u>	Fitting.	1
16	<u>8-8-8-070408</u>	Fitting.	2
17	<u>8-4-070103</u>	Fitting.	2
18	<u>KH00111</u>	Fitting.	2
19	<u>8-10-070120</u>	Fitting. 1/2 Straight Thread O-Ring	6
20	<u>6-4-070120</u>	Fitting. 3/8 Striaight Thread O-Ring	2



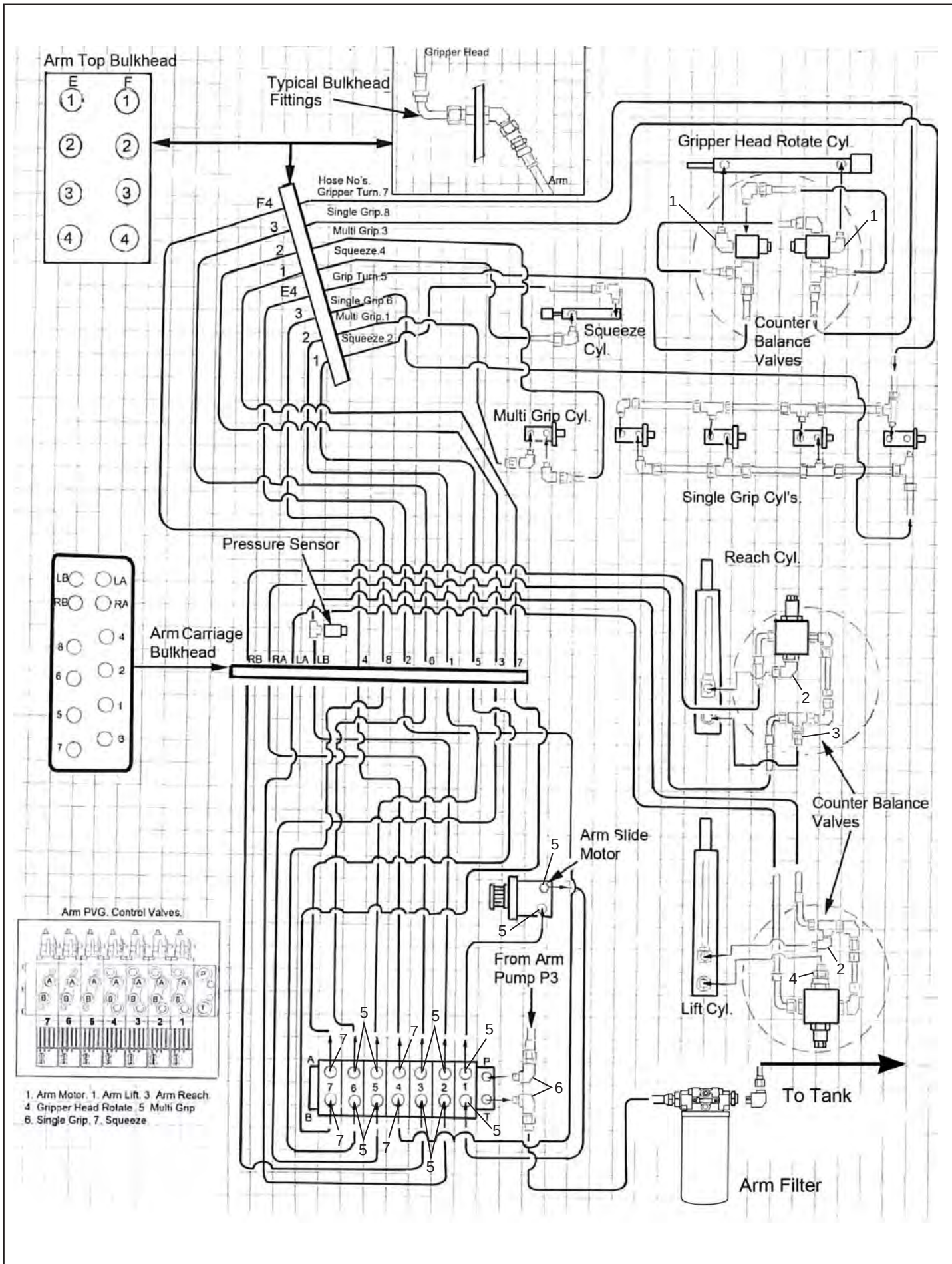
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System - Drive System - Hoses	
1	<u>B200139</u>	Hose Assembly. Drive Motor to Tee	1
2	<u>B200076</u>	Hose Assembly. Shift Valve to Front Anti-Slip Valve	1
3	<u>B200104</u>	Hose Assembly. Front Anti-Slip Valve to Tank	1
4	<u>B200128</u>	Hose Assembly. Drive Motor to Tee	1
5	<u>B200144</u>	Hose Assembly. Drive Motor to Front Anti-Slip Valve	1
6	<u>B200146</u>	Hose Assembly. Drive Motor to Front Anti-Slip Valve	1
7	<u>B200138</u>	Hose Assembly. Drive Motor to Tee	1
8	<u>B200141</u>	Hose Assembly. Drive Motor to Tee	1



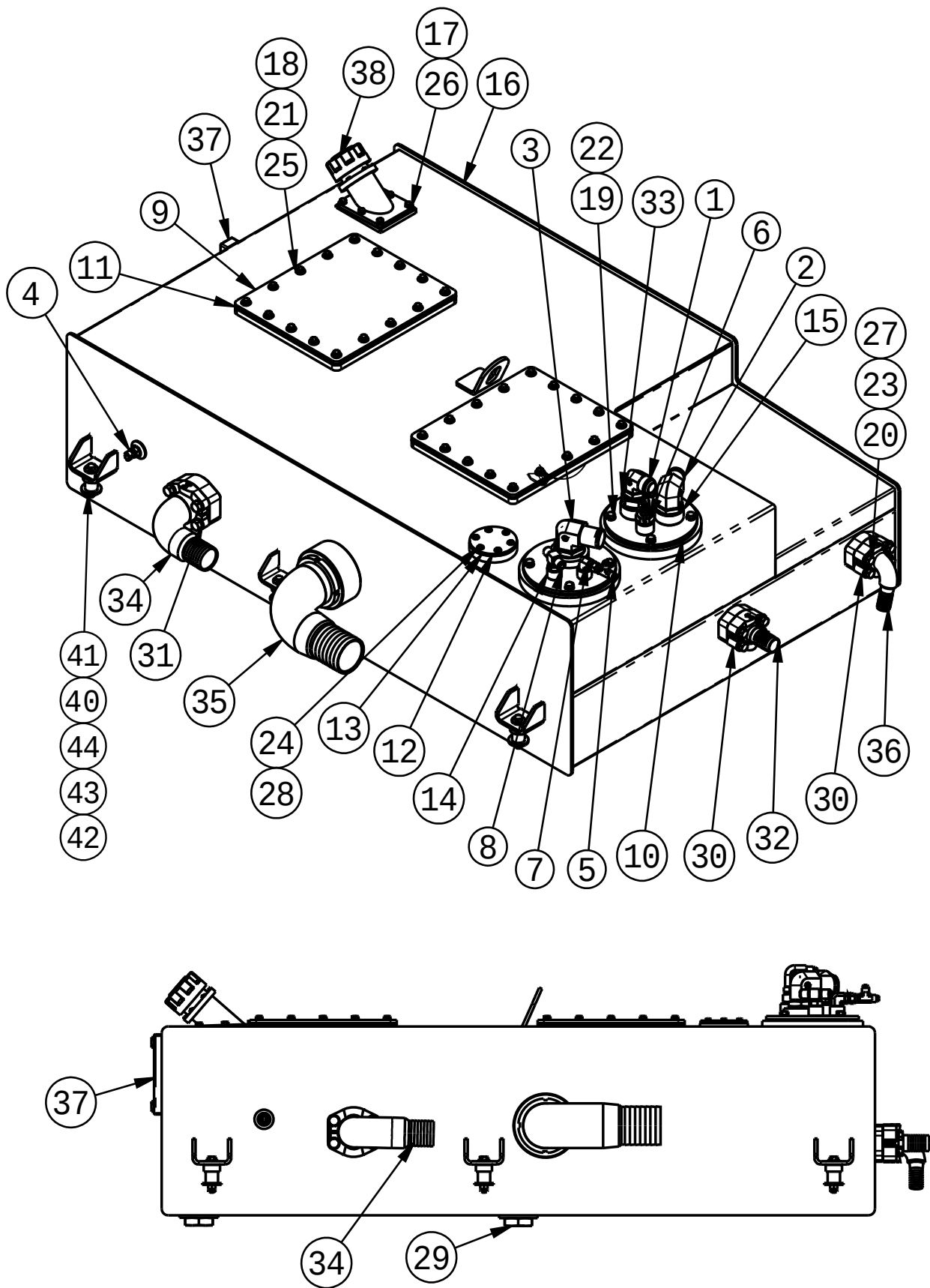
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System - Drive System - Fittings	
1	<u>12-12-520320</u>	Fitting.	4
2	<u>8-8-070120</u>	Fitting. 1/2 Straight Thread O-Ring	4
3	<u>4-4-070120</u>	Fitting. 1/4 Straight Thread O-Ring	2
4	<u>4-6-070220</u>	Fitting. 1/4 Straight Thread O-Ring 90 Deg. Elbow	2
5	<u>4-6-070120</u>	Fitting. 1/4 Straight Thread O-Ring	2
6	<u>10-12-520220</u>	Fitting. 5/8 Tube to No.12 O-Ring	3
7	<u>10-12-520120</u>	Fitting. 5/8 Straight Thread O-Ring	1
8	<u>6-6-070120</u>	Fitting. 3/8 Straight Thread O-Ring	2
9	<u>KH00161</u>		1
10	<u>KH00158</u>		2
11	<u>10-12-520320</u>	Fitting. 5/8 Tube to No.12 O-Ring 45 Deg. Elbow	4



ITEM NO.	PART NO.	DESCRIPTION	QTY
Brouwer 4000 Sod Harvester Hydraulic System - Robotic Arm - Hoses			
1	<u>B200100</u>	Hose Assembly. 7 Bank Valves to Arm Filter	1
2	<u>B200155</u>	Hose Assembly. Arm Filter to Tank	1
3	<u>B200124</u>	Hose Assembly. Arm Slide Motor to 7 Bank Valves	1
4	<u>B200123</u>	Hose Assembly. 7 Bank Valves to Arm Slide Motor	1
5	<u>B200079</u>	Hose Assembly. 7 Bank Valves to Arm Carriage Bulkhead	1
6	<u>B200083</u>	Hose Assembly. 7 Bank Valves to Arm Carriage Bulkhead	1
7	<u>B200085</u>	Hose Assembly. 7 Bank Valves to Arm Carriage Bulkhead	1
8	<u>B200088</u>	Hose Assembly. 7 Bank Valves to Arm Carriage Bulkhead	1
9	<u>B200090</u>	Hose Assembly. 7 Bank Valves to Arm Carriage Bulkhead	1
10	<u>B200089</u>	Hose Assembly. Arm Carriage Bulkhead to 7 Bank Valves	1
11	<u>B200087</u>	Hose Assembly. Arm Carriage Bulkhead to 7 Bank Valves	1
12	<u>B200086</u>	Hose Assembly. Arm Carriage Bulkhead to 7 Bank Valves	1
13	<u>B200084</u>	Hose Assembly. Arm Carriage Bulkhead to 7 Bank Valves	1
14	<u>B200080</u>	Hose Assembly. Arm Carriage Bulkhead to 7 Bank Valves	1
15	<u>B200147</u>	Hose Assembly. Fitting to Lift Cylindar Counter Balance Valve	1
16	<u>B200175</u>	Hose Assembly. Fitting to Reach Cylindar Counter Balance Valve	1
17	<u>B200181</u>	Hose Assembly. Arm Top Bulkhead to Single Grip Cylindar	1
18	<u>B200007</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
19	<u>B200002</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
20	<u>B200005</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
21	<u>B200008</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
22	<u>B200001</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
23	<u>B200003</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
24	<u>B200004</u>	Hose Assembly. Arm Carriage Bulkhead to Arm Top Bulkhead	1
25	<u>B200125</u>	Hose Assembly. Arm Carriage Bulkhead to Lift Cylindar Counter Balance	1

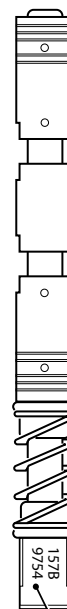
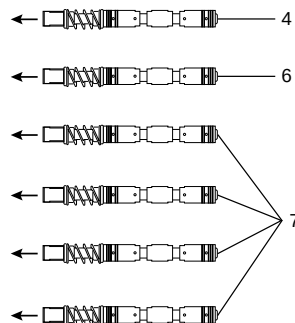
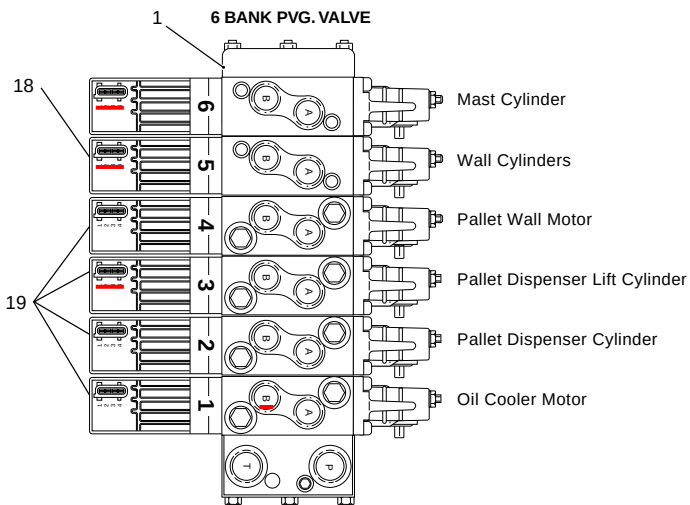


ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic System - Robotic Arm - Fittings	
1	<u>6-6-070220</u>	Fitting. 3/8 Striaight Thread O-Ring 90 Deg. Elbow	2
2	<u>8-8-070181</u>	Fitting. 1/2	2
3	<u>8-8-070120</u>	Fitting. 1/2 Straight Thread O-Ring	1
4	<u>8-8-070220</u>	Fitting. 1/2 Straight Thread O-Ring 90 Deg. Elbow	1
5	<u>8-10-070120</u>	Fitting. 1/2 Straight Thread O-Ring	12
6	<u>16-12-070220</u>	Fitting. 1 in. Straight Thread O-Ring 90 Deg. Elbow	2
7	<u>6-10-070120</u>	Fitting. 3/8 Straight Thread O-Ring	4



Brouwer 4000 Sod Harvester
Hydraulic Tank Assembly

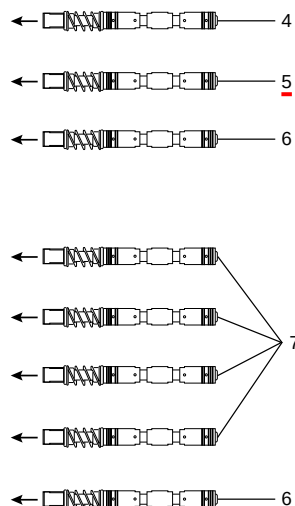
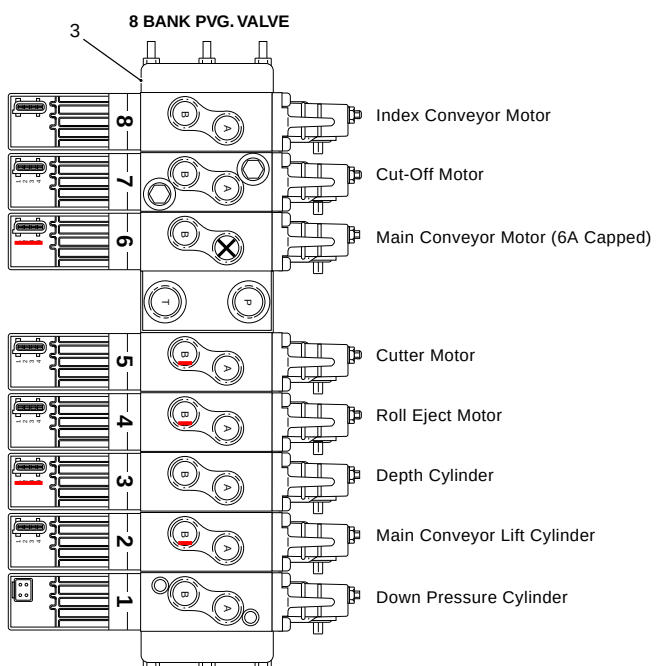
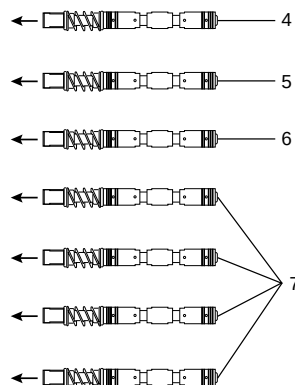
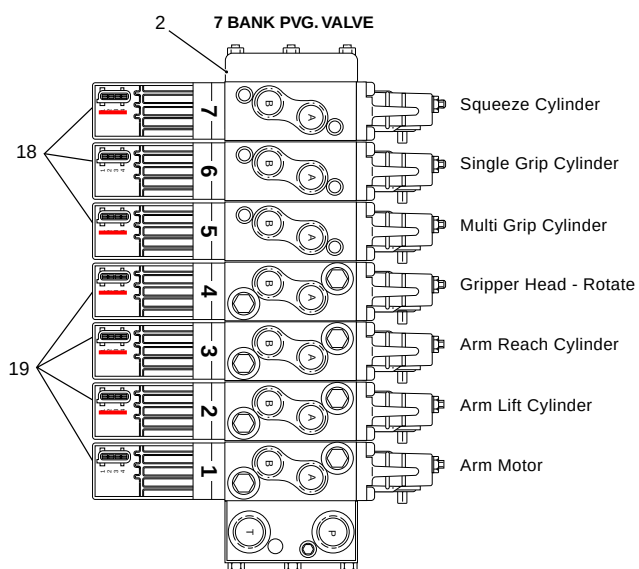
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>16-16-070220</u>	1	FITTING - STRAIGHT THREAD O-RING 90° ELBOW - SAE 37° (JIC) FLARE-TWIN
2	<u>20-20-430292</u>	1	FITTING 1 1/4 X 1 1/4 - BEADED TUBE HOSE END 90°
3	<u>24-24-430292</u>	1	FITTING - 90° SAE STRAIGHT THREAD TO HOSE BEAD (FLOW FITTING)
4	<u>4134628</u>	1	TEMPERATURE SENSOR
5	<u>6-6-6-070432</u>	1	NO. 6 TUBE -- SWIVEL NUT RUN TEE
6	<u>8-12-070120</u>	1	FITTING 1/2 STRAIGHT THRD O-RING CONNECTOR
7	<u>8-6-070220</u>	1	FITTING 1/2 STRAIGHT O-RING 90° ELBOW
8	<u>8-8-8-070429</u>	1	NO. 8 JIC SWIVEL BRANCH 'T'
9	<u>A100137</u>	2	ACCESS COVER HYDRAULIC TANK
10	<u>A100142</u>	2	GASKET SECONDARY FLANGE
11	<u>A100143</u>	2	GASKET ACCESS COVER
12	<u>B110399</u>	1	FILLER FLANGE CAP
13	<u>B110400</u>	1	GASKET FRONT FILLER
14	<u>B300070</u>	1	RETURN FLANGE #24 PORT
15	<u>B300071</u>	1	RETURN FLANGE #20 PORT
16	<u>B300310</u>	1	HYDRAULIC TANK WELDMENT 6 MOUNTS - CURRENT FROM S/N 101
	<u>B310060</u>	1	HYDRAULIC TANK WELDMENT - NON CURRENT UP TO S/N 100
17	<u>F040404</u>	6	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8
18	<u>F040406</u>	32	BOLT 1/4 UNC x 3/4 Gr 8
19	<u>F040612</u>	8	BOLT - 3/8 UNC x 1 1/4 Gr 8
20	<u>F040712</u>	8	BOLT - 7/16 UNC x 1 1/4 Gr 8 - CURRENT FROM S/N 101
	<u>F040714</u>	8	BOLT - 7/16 UNC x 1 1/2 Gr 8 - NON CURRENT UP TO S/N 100
21	<u>F310400</u>	32	WASHER - 1/4 LOCK
22	<u>F310600</u>	8	LOCK WASHER - 3/8
23	<u>F310708</u>	8	LOCK WASHER - 7/16 GR.8
24	<u>F320200</u>	6	WASHER - #10
25	<u>F320400</u>	32	WASHER-1/4
26	<u>F330400</u>	6	1/4 SAE FLAT WASHER
27	<u>F330708</u>	8	7/16 SAE FLAT WASHER Gr 8
28	<u>F570204</u>	6	PAN HD PHIL 10-32 x 0.50 LG. ST STL
29	<u>KH00036</u>	2	PLUG - HEX SAE #24 MAGNETIC PLUG
30	<u>KH00106</u>	2	FLANGE - 1 1/4 IN. SAE FLANGE KIT CODE 62
31	<u>KH00133</u>	1	SPLIT FLANGE CODE 61 - 2.00
32	<u>KH00173</u>	1	FITTING - CODE 61 #20 TO #20 HOSE BARB STRAIGHT
33	<u>KH00177</u>	1	FITTING - BUSHING 1.00 - 1.25
34	<u>KH00310</u>	1	FITTING - SPLIT FLANGE 90° TO HOSE BARB SIZE 32
35	<u>KH00311</u>	1	FITTING - BSPP SWIVEL 90° TO HOSE BARB SIZE 48
36	<u>KH00333</u>	1	FITTING - 90° HOSE BARB TO CODE 69
37	<u>KH10013</u>	1	FLUID LEVEL INDICATOR W/ ELECTRICAL
38	<u>KH40105</u>	1	HYDRAULIC FILLER ANGLED
39	<u>KL00010-B500005</u>	1	HYDRAULIC OIL - HYDREX XV - 412 L
40	<u>B100147</u>	6	FUEL TANK MOUNT WASHER - CURRENT FROM S/N 101
41	<u>F040624</u>	6	HEX BOLT 3/8-16 UNC x 2 1/2 LG - CURRENT FROM S/N 101
42	<u>F210600</u>	6	HEX LOCK NUT 3/8-16 UNC - CURRENT FROM S/N 101
43	<u>F320600</u>	6	FLAT WASHER 3/8 - CURRENT FROM S/N 101
44	<u>KM71012</u>	6	RUBBER MOUNT - FUEL TANK - CURRENT FROM S/N 101



MANUFACTURER'S
PART NUMBER

IMPORTANT

When replacing a spool:
Check that the manufacturer's part
number etched into the spool
is the same on **BOTH SPOOLS**.



ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Hydraulic PVG Valves	
1	<u>KH20240</u>	6-Bank Valve Block	1
2	<u>KH20239</u>	7-Bank Valve Block	1
3	<u>KH20241</u>	8-Bank Valve Block	1

Brouwer 4000 Sod Harvester Filters

CAT Tier III engines, up to and including serial #56

PART NO.	QTY.	DESCRIPTION
KD40056	1	AIR FILTER PRIMARY - CAT 4.4TA - CAT 206-5234
KD40057	1	AIR FILTER - SECONDARY - CAT 4.4TA - CAT 206-5235
KD40058	1	OIL FILTER - CAT 4.4TA - CAT 7W-2326
KD40059	1	FUEL FILTER - CAT 4.4TA - CAT 299-8229
KD40060	1	WATER SEPARATOR - CAT 4.4TA - CAT 308-7298

CAT Tier III engines, from serial #57

PART NO.	QTY.	DESCRIPTION
KD40056	1	AIR FILTER PRIMARY - CAT 4.4TA - CAT 206-5234
KD40057	1	AIR FILTER - SECONDARY - CAT 4.4TA - CAT 206-5235
KD40058	1	OIL FILTER - CAT 4.4TA - CAT 7W-2326
KD40099	1	FUEL FILTER - CAT 4.4TA - CAT 360-8958
KD40100	1	WATER SEPARATOR ELEMENT - CAT 4.4TA - CAT 439-5037

CAT Tier IV engines

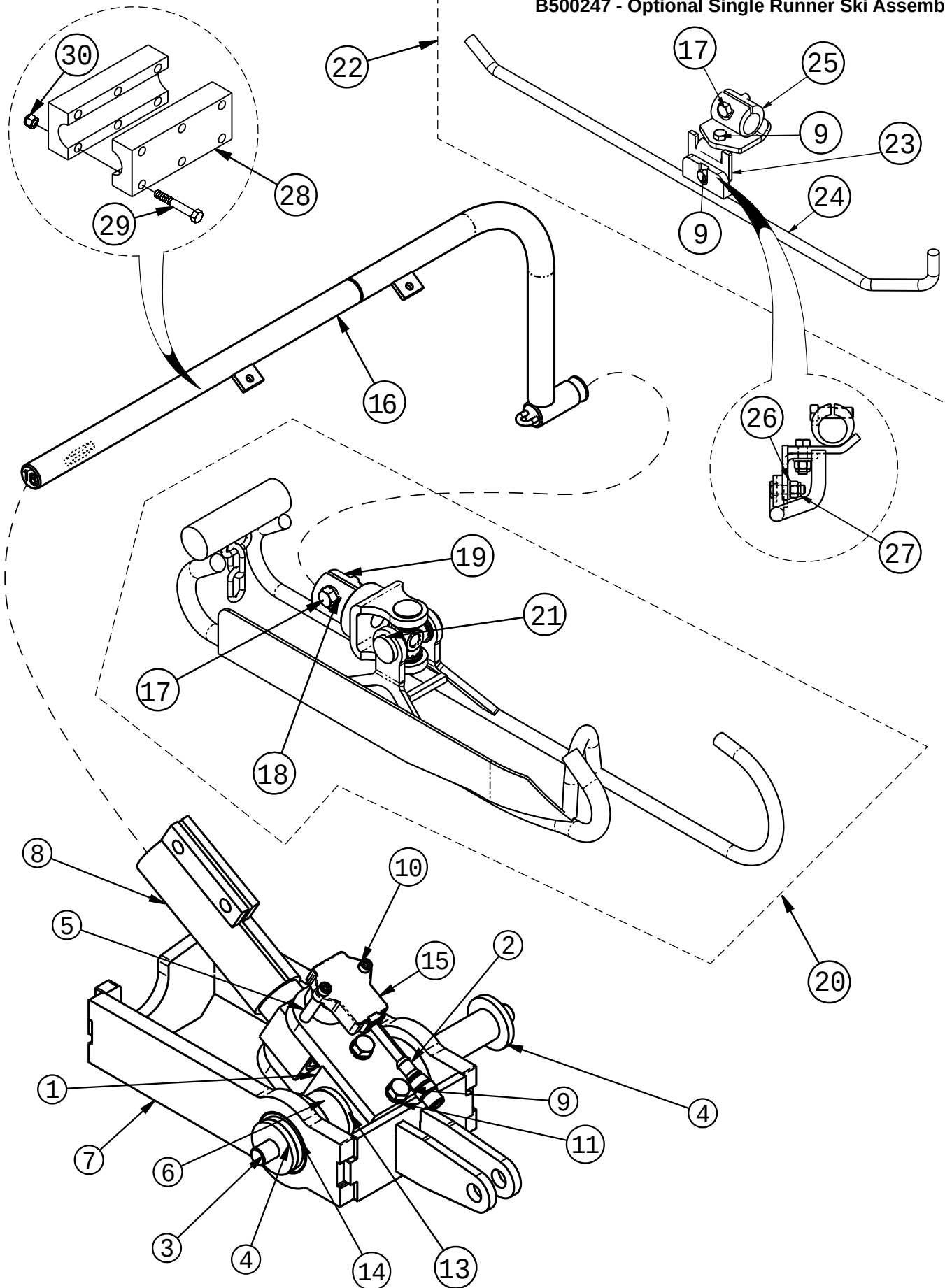
PART NO.	QTY.	DESCRIPTION
KD40056	1	AIR FILTER PRIMARY - CAT 4.4TA - CAT 206-5234
KD40057	1	AIR FILTER - SECONDARY - CAT 4.4TA - CAT 206-5235
KD40058	1	OIL FILTER - CAT 4.4TA - CAT 7W-2326
KD40099	1	FUEL FILTER - CAT 4.4TA - CAT 360-8958
KD40101	1	WATER SEPARATOR ELEMENT - CAT 4.4TA - CAT 479-4133

SECTION 4 AUTO-STEER

Auto-Steer Assembly

4-01

B500247 - Optional Single Runner Ski Assembly



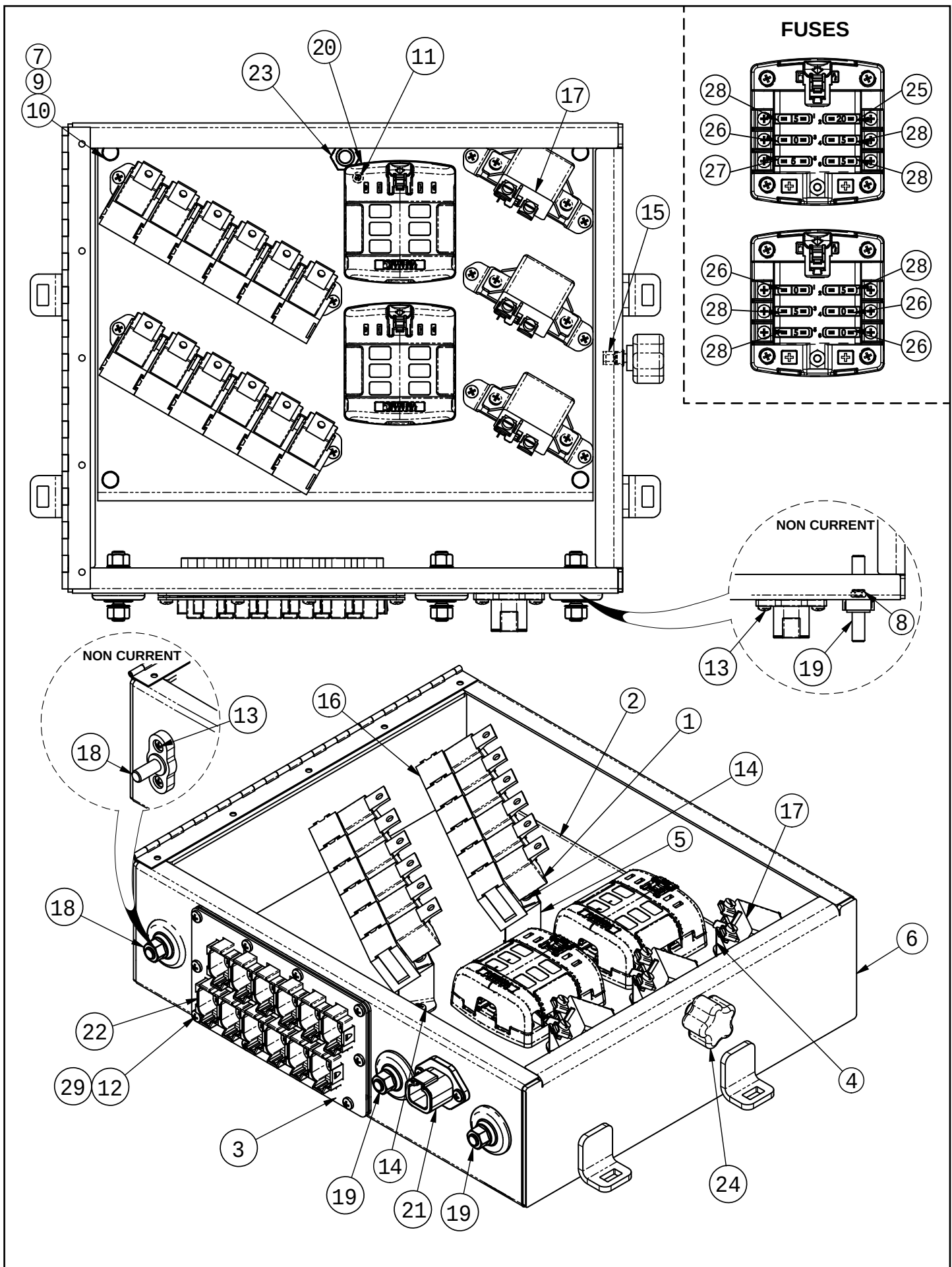
Brouwer 4000 Sod Harvester
Auto-Steer Assembly

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

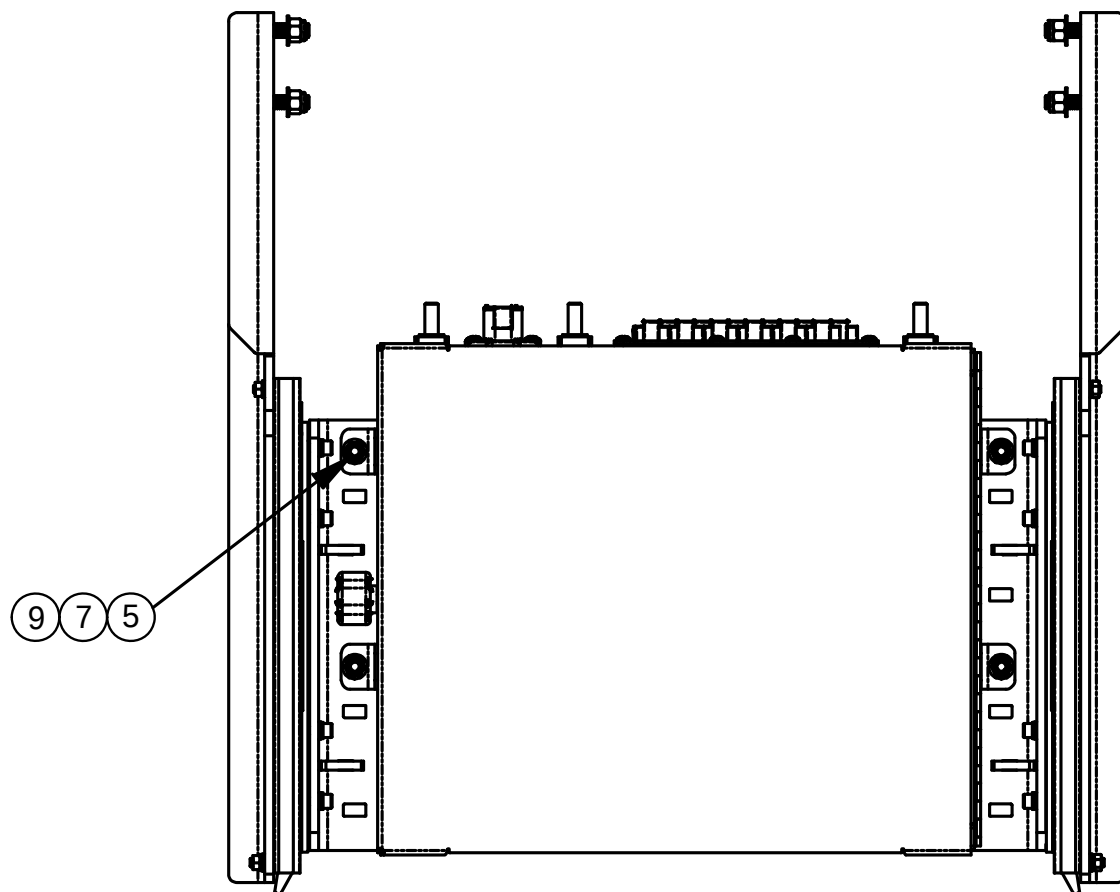
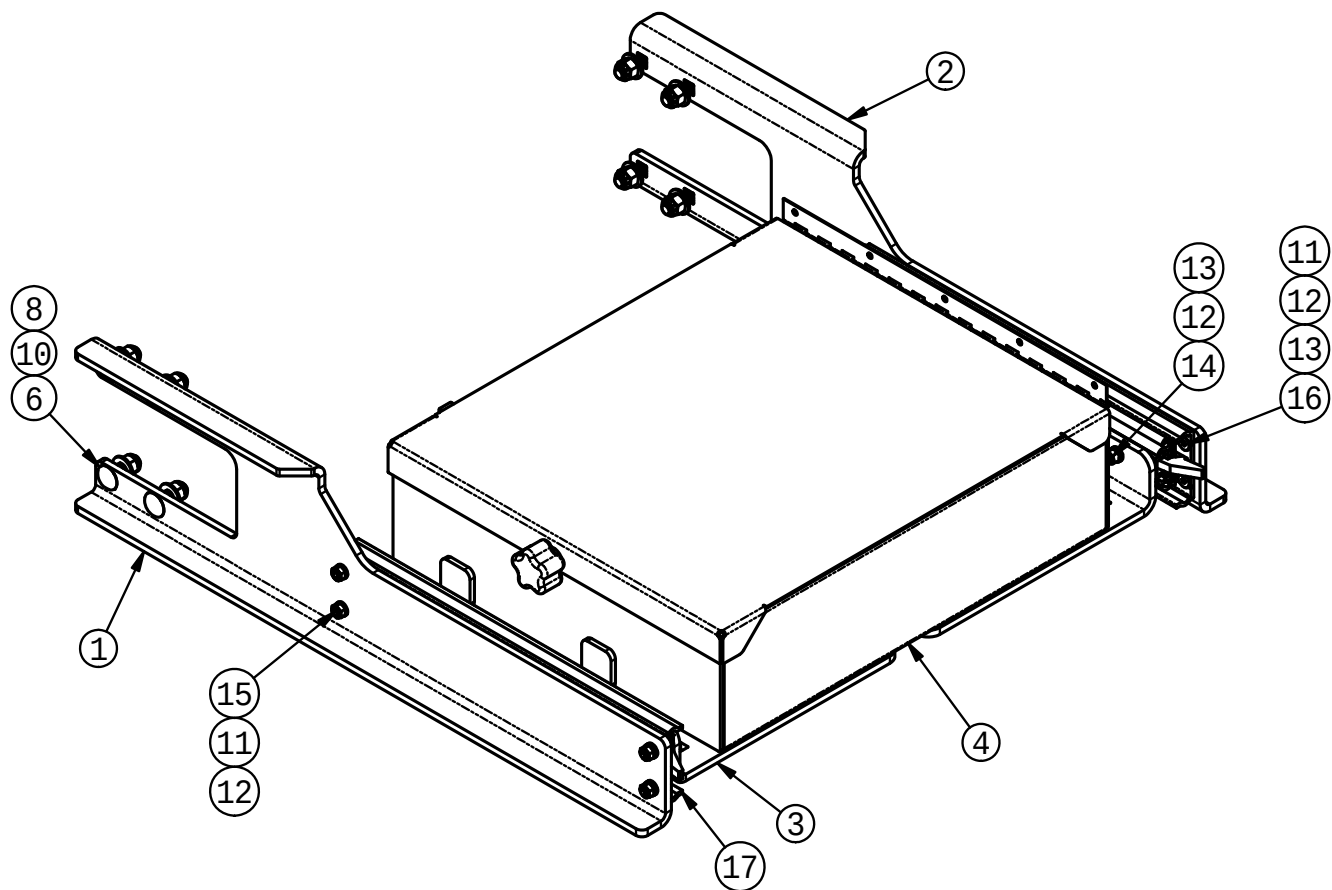
Wiring Diagram	5-01
Under Cab Electrical Panel Assembly - CURRENT from Serial No. 37	5-03
Under Cab Electrical Box Assembly - CURRENT from Serial No. 37	5-05
Main Electrical Box & Mutiports 7-10 & 16	5-07
Main Electrical Box & Mutiports 4 & 13-15	5-09
Main Electrical Box & Mutiports 5, 6 & 11	5-11
4000 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	<u>KE70034</u>	Keypad - 8 Button Canbus	1
2	<u>KE70035</u>	Keypad - 20 Button Canbus	1
3	<u>KE30042</u>	DEUTSCH DTM PLUG - 6	1
4	<u>KE00024</u>	JOYSTICK HANDLE -L SERIES & BASE	1
5	<u>KE10230</u>	POTENTIOMETER - 1K OHM	3
6	<u>KE80042</u>	THROTTLE - FINGER SWITCH	1
7	<u>KE80044</u>	FOOT PEDAL	1
8	<u>KE30050</u>	DEUTSCH DT PLUG - 12	1
9	<u>KE30025</u>	WEDGE - 12 PIN DT PLUG	1
Brouwer 4000 Sod Harvester Overhead Switches, Right Pillar Display & Fuel Guage Assembly MK3			
10	<u>B300125</u>	Screen Mounting Bracket	1
11	<u>B101036</u>	Monting Plate	1
12	<u>KE80024</u>	SWITCH - DPDT (MOM-ON - OFF - MOM-ON)	1
13	<u>KE80008</u>	SWITCH - ROCKER DOUBLE POLE (PARK BRAKE)	1
14	<u>KE80009</u>	SWITCH - ROCKER SINGLE POLE	2
15	<u>KE70025</u>	FUEL GAUGE	1
16	<u>KE70026</u>	FUEL GAUGE BEZEL	1
17	<u>KE70023</u>	ENGINE CONTROL	1
18	<u>KE70016</u>	LCD SCREEN	1
19	<u>KE10161</u>	BUZZER - OPERATOR ALERT	1
20	<u>KE10162</u>	BUZZER - VOLUME CONTROL	1
21	<u>A101657</u>	BEEPER BRACKET	1
22	<u>KE75002</u>	RAM ARM	1
23	<u>KE75004</u>	SMALL BASE RAM	1
24	<u>KE75005</u>	VESA BASE RAM	1



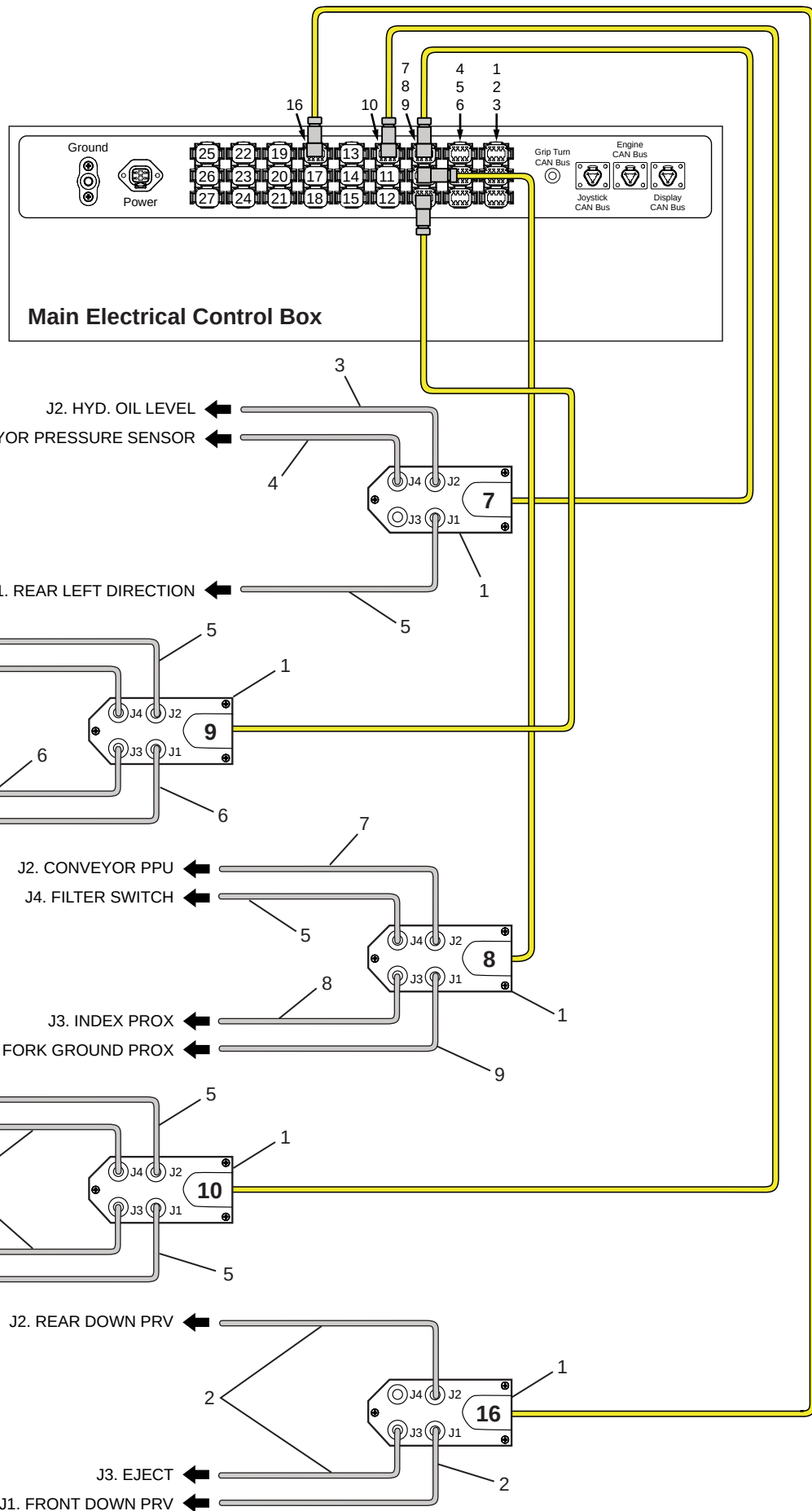
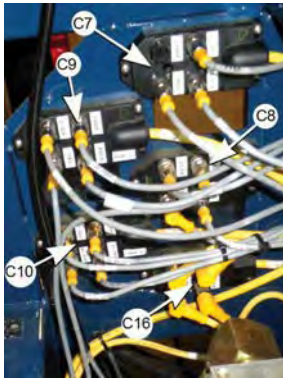
Brouwer 4000 Sod Harvester
Under Cab Electrical Panel Assembly - CURRENT from Serial No. 37

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



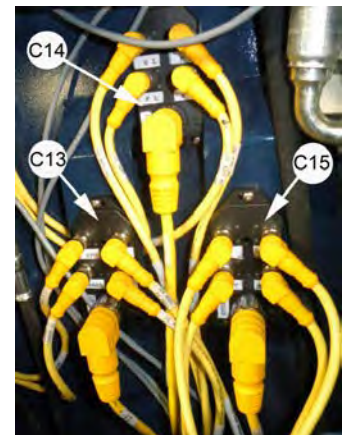
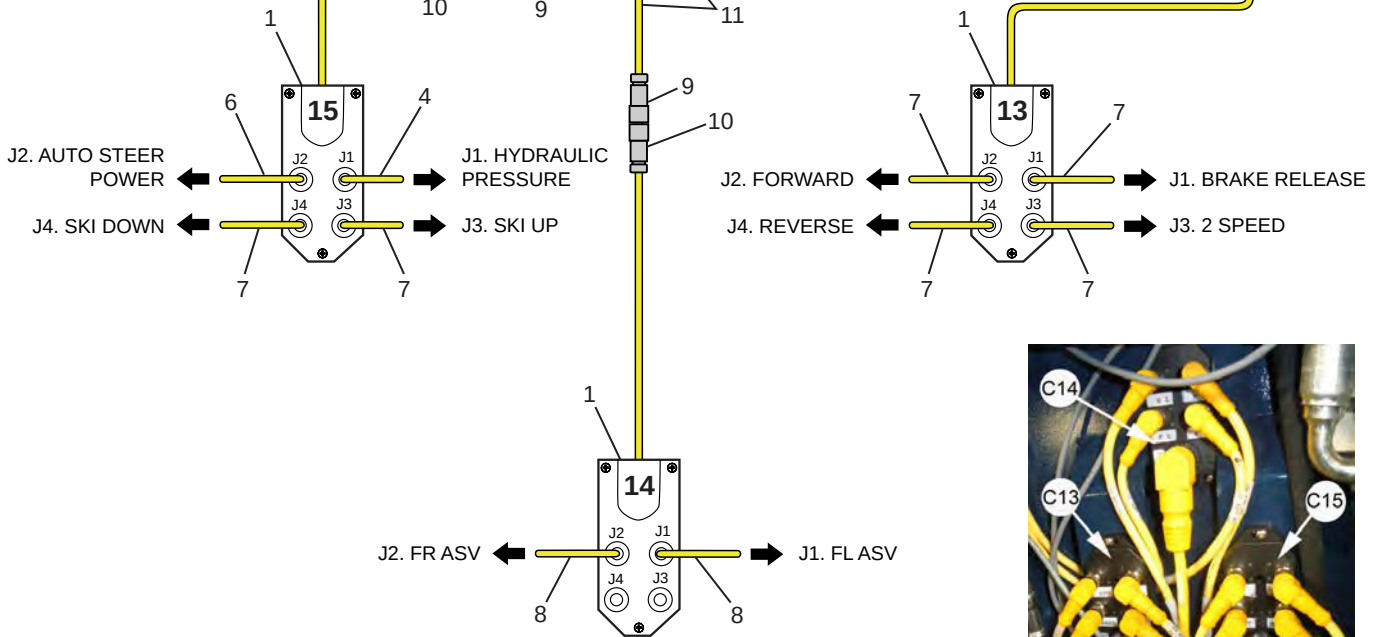
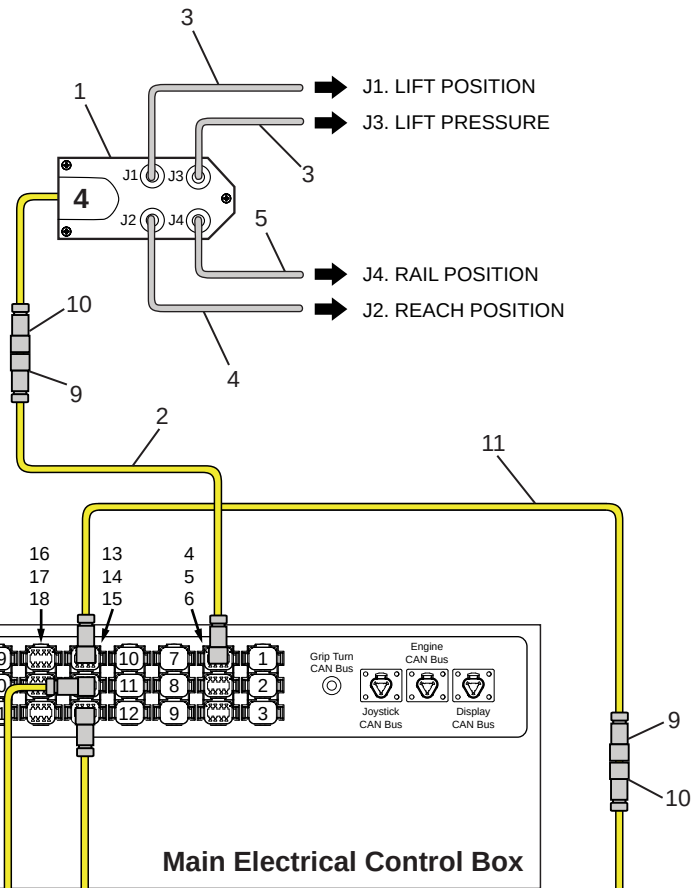
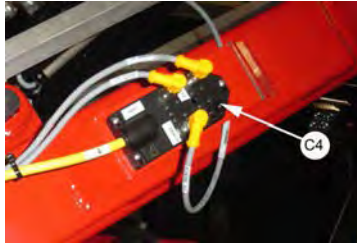
Brouwer 4000 Sod Harvester
Under Cab Electrical Box Assembly - CURRENT from Serial No. 37

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

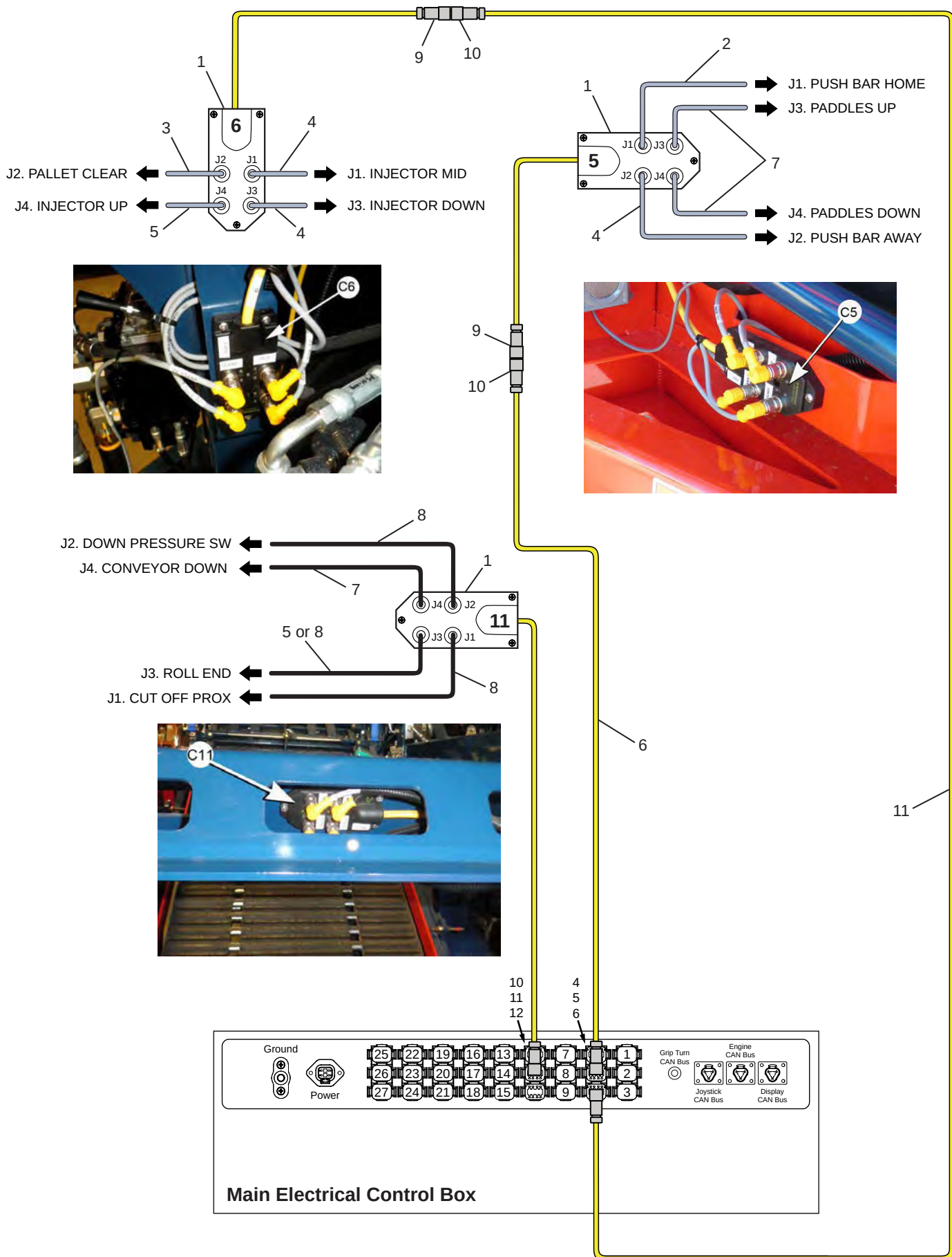


ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 7-10 & 16	
1	<u>KE60190</u>	Multiport & Cable	5
2	<u>KE60160</u>	Cable	5
3	<u>KE60187</u>	Cable	1
4	<u>KE60149</u>	Cable	2
5	<u>KE60175</u>	Cable	7
6	<u>KE60184</u>	Cable	2
7	<u>KE60126</u>	Cable - Current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

ARM



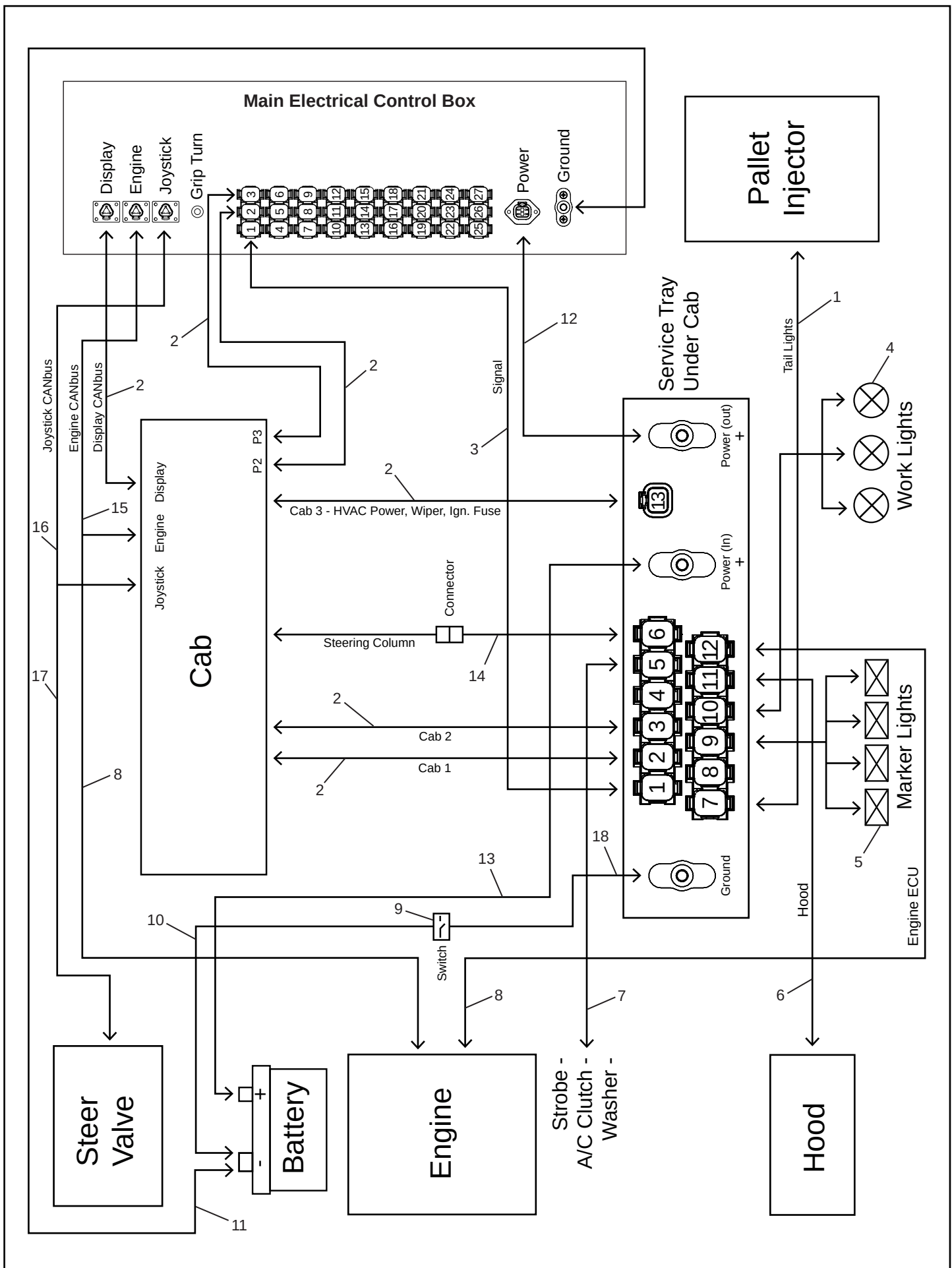
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 4 & 13-15	
1	<u>KE60189</u>	Multiport & Cable	4
2	<u>B500321</u>	Cable Extension	1
3	<u>KE60118</u>	Cable	2
4	<u>KE60117</u>	Cable	2
5	<u>KE60131</u>	Cable	1
6	<u>KE60107</u>	Cable	1
7	<u>A500126</u>	Cable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



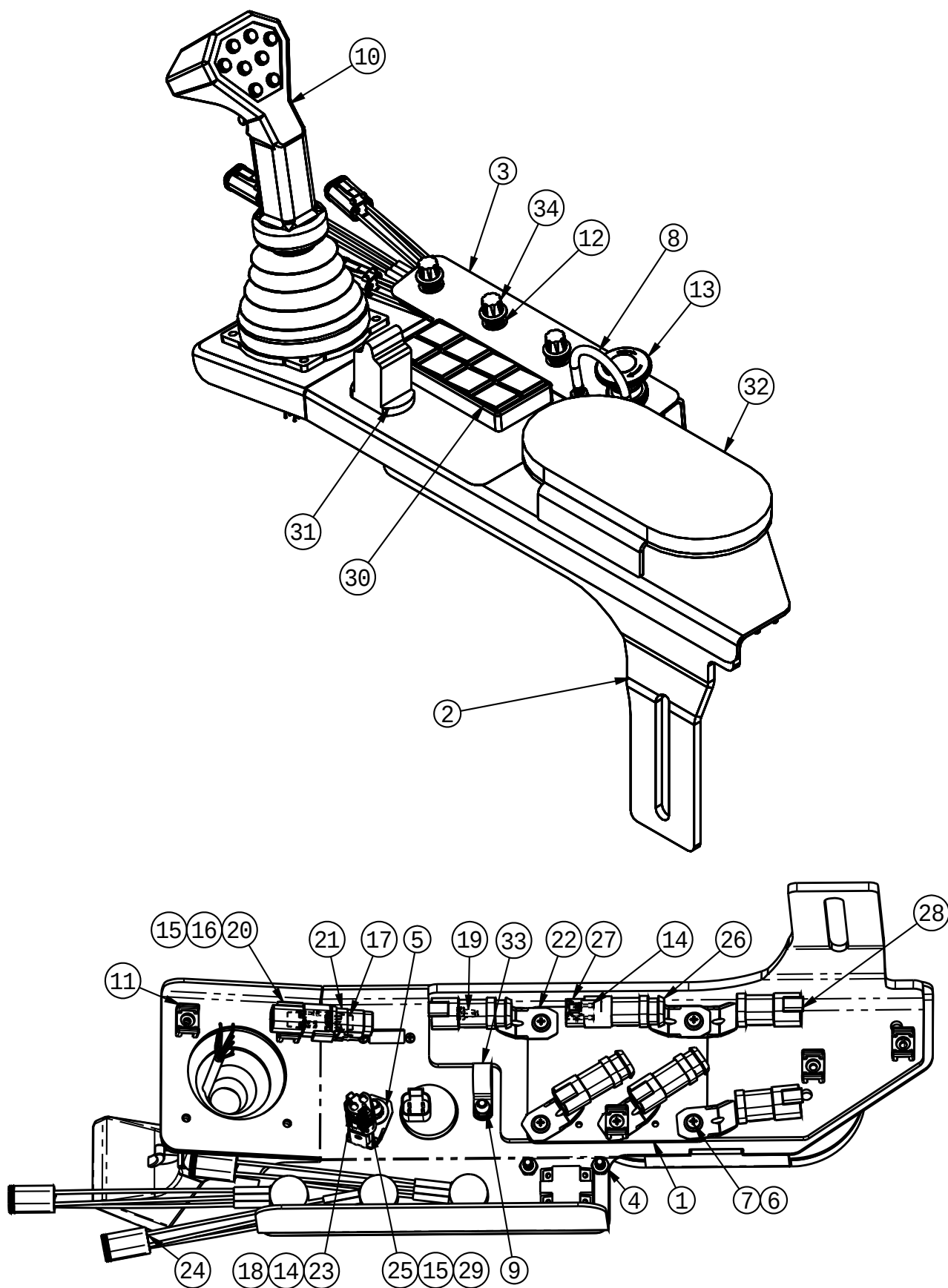
ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester Main Electrical Box & Mutiports 5, 6 & 11	
1	<u>KE60190</u>	Multiports & Cable	3
2	<u>KE60124</u>	Cable	1
3	<u>KE60117</u>	Cable	1
4	<u>KE60125</u>	Cable	3
5	<u>KE60126</u>	Cable	1 or 2
6	<u>B500322</u>	Cable Extension	1
7	<u>KE60127</u>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

NOTE

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

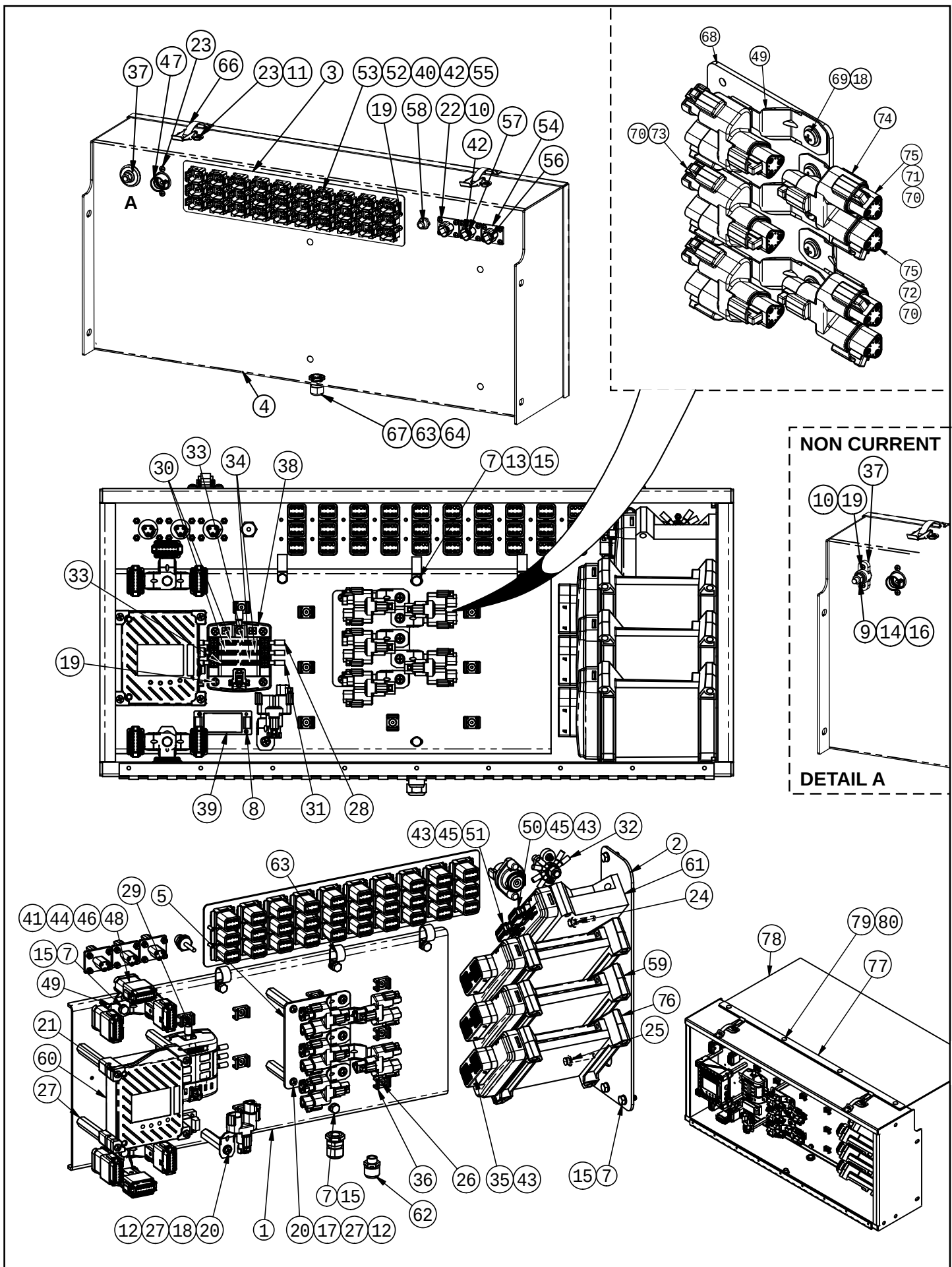


ITEM NO.	PART NO.	DESCRIPTION	QTY
		Brouwer 4000 Sod Harvester <u>4000</u> Electrical Diagram	
1	<u>B500175</u>	Tail Light Wiring Harness	1
2	<u>B500230</u>	Cab Main Wiring Harness	1
3	<u>B500311</u>	Power Tray to Main Panel Cable Assembly	1
4	<u>KE90022</u>	Work Lights	3
5	<u>KE90023</u>	Marker Lights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

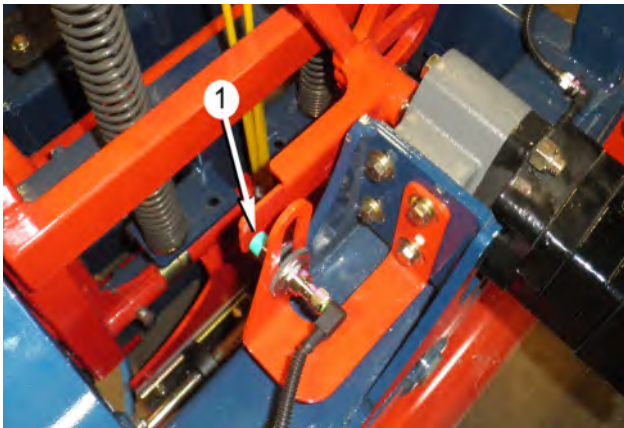


Brouwer 4000 Sod Harvester

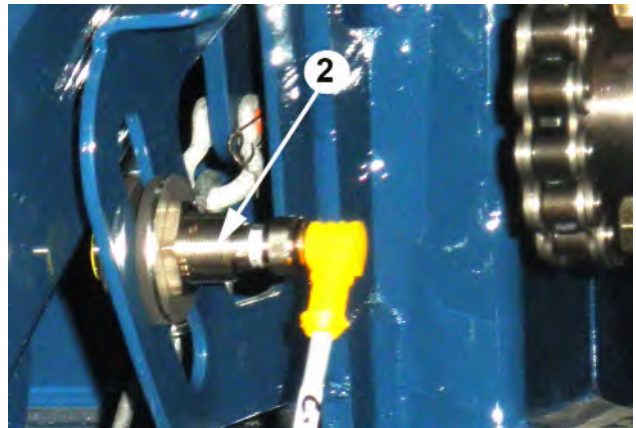
Main Electrical Control Box Assembly

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

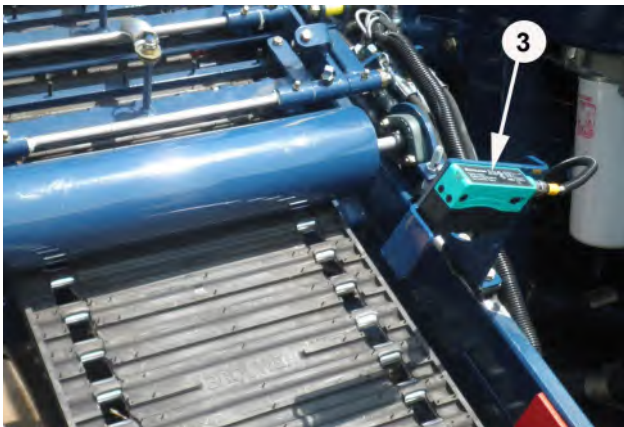
4000 SENSOR IDENTIFICATION



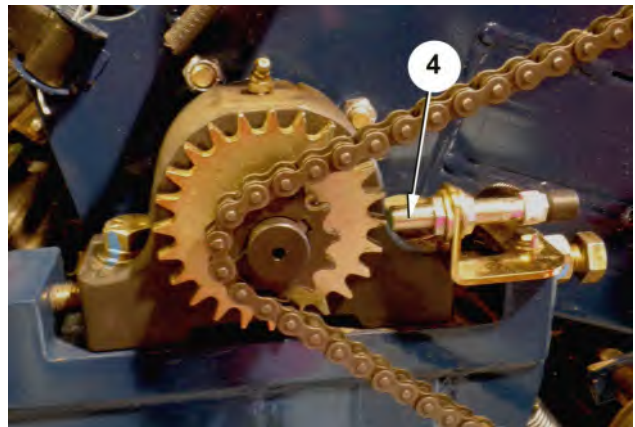
1. Cut-Off - Sensor to Target **1/4 in. to 3/8 in.**
Part No. KE10174 – 15 MM Inductive Proximity Switch



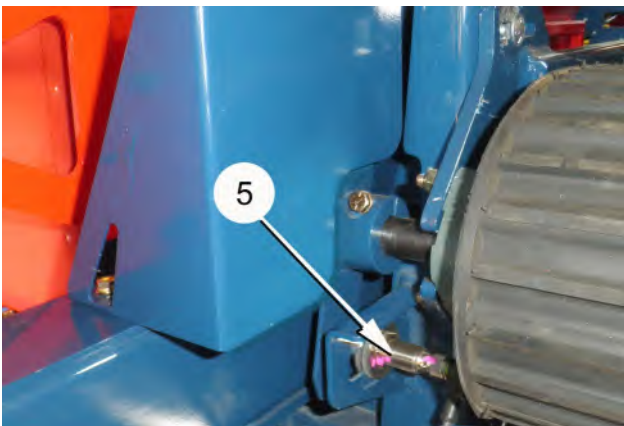
2. Conveyor 'DOWN' - Sensor to Target **1/8 in. to 1/4 in.**
Part No. KE10155 – 8 MM Inductive Proximity Switch



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



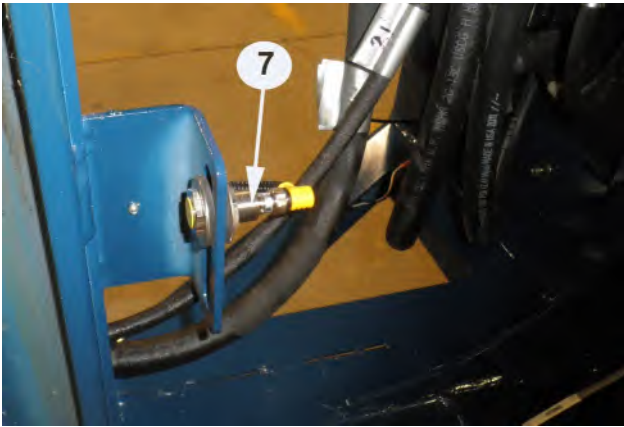
4. Roll Flap (Tooth Count) Sensor to Target **1/8 in.max**
Part No. KH30088 - Conveyor Motor with High
Speed Sensor – **CURRENT**
Part No. KH30089 – High Speed Sensor – **CURRENT**
Part No. 4132981 – 4 MM Inductive Sensor – **N/C**



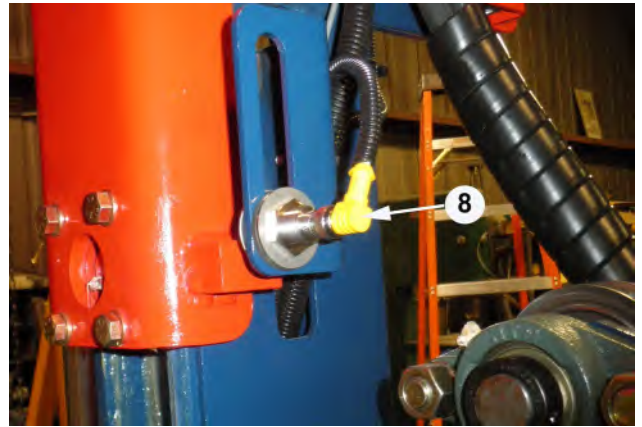
5. Index Conv'. 'CLEATS' position Sensor to Target .
1/8 in. to 1/4in
Part No. KE10155 – 8 MM Inductive Proximity Switch



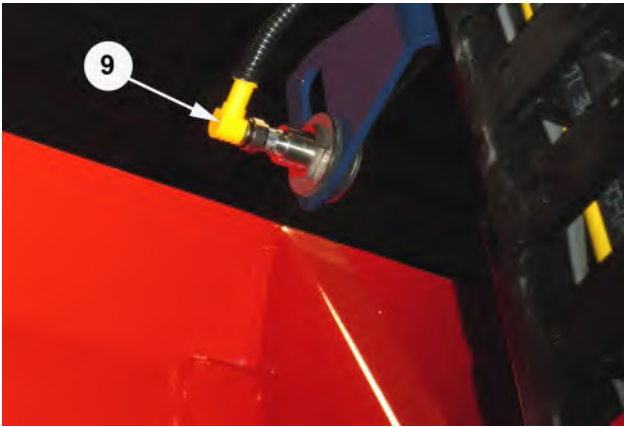
6. Mast 'Height' Sensor. No adjustment.
Part No. B500210 – Ultrasonic Sensor w/Decal



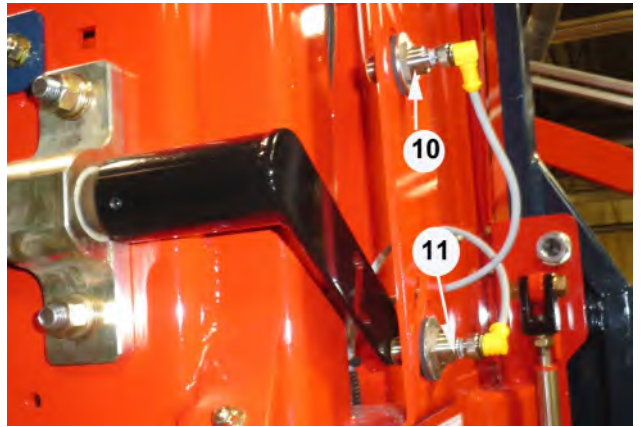
7. Pallet Disp'. 'Bottom'. Sensor to Target **1/8in. to 1/4in.**
Part No. **KE10155** – 8 MM Inductive Proximity Switch



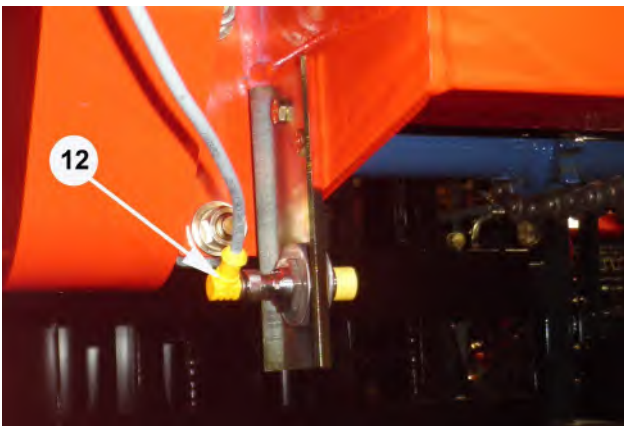
8. Pallet Disp'. 'Mid.' Sensor to Target **1/8in. to 1/4in.**
Part No. **KE10155** – 8 MM Inductive Proximity Switch



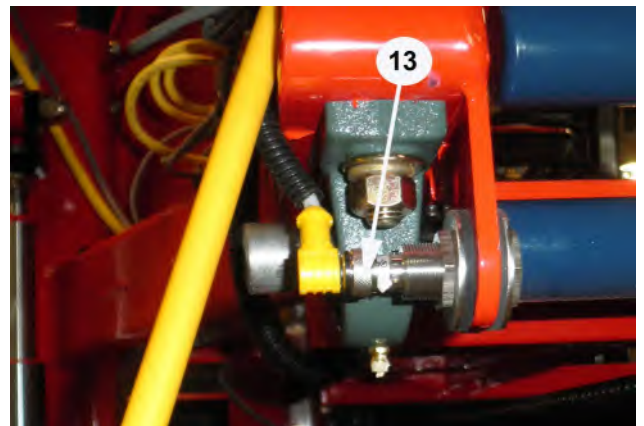
9. Pallet Disp'. 'High'. Sensor to Target **1/8in. to 1/4in.**
Part No. **KE10155** – 8 MM Inductive Proximity Switch



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

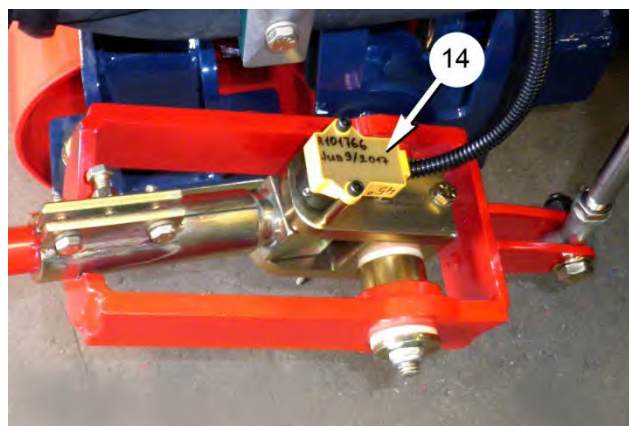


12. Push Bar 'Away' Sensor to Target **1/4in. to 3/8in.**
Part No. **KE10155** – 8 MM Inductive Proximity Switch



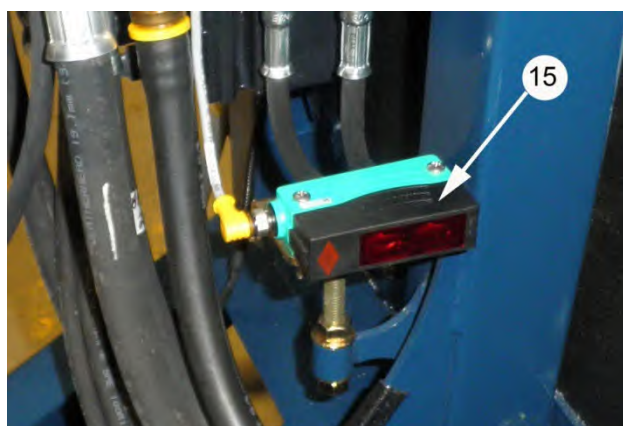
13. Push Bar 'Home'. Sensor to Target **1/8in. to 1/4in.**
Part No. **KE10155** – 8 MM Inductive Proximity Switch

4000 SENSOR IDENTIFICATION



14. Ski Angle Sensor.

Part No. **R101766** – Rotary Sensor Programmed 45 Deg.



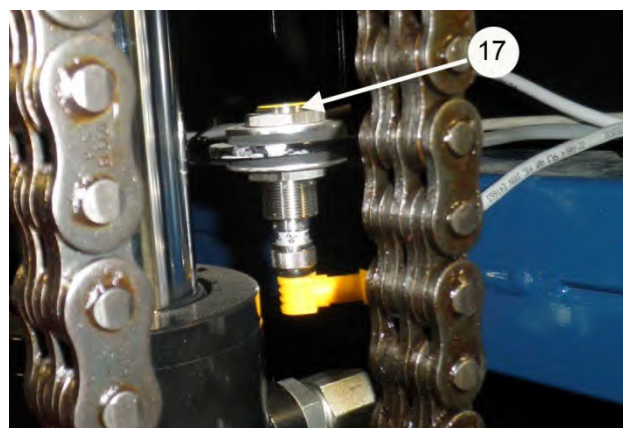
15. Pallet 'Clear' Sensor (Cover removed). No adjustment

Part No. **KE10389** – Diffuse Sensor W16



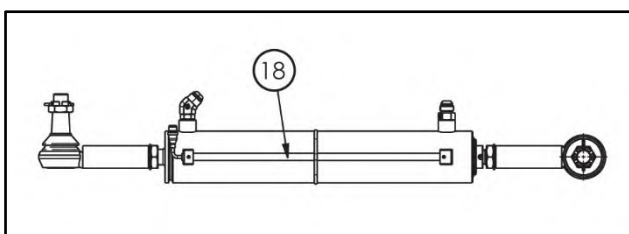
16. Arm Rail Sensor.No adjustment.

Part No. **B500483** – Arm Rail Sensor Assembly



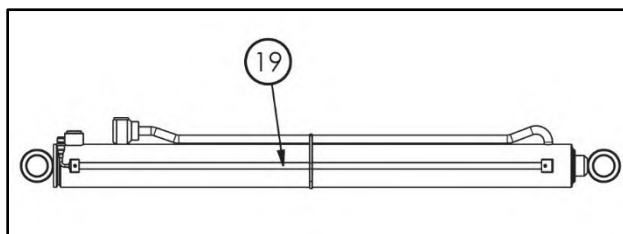
17. Forks 'Bottom'. Sensor to Target 1/8in to 1/4in.

Part No. **KE10155** – 8MM Inductive Proximity Switch



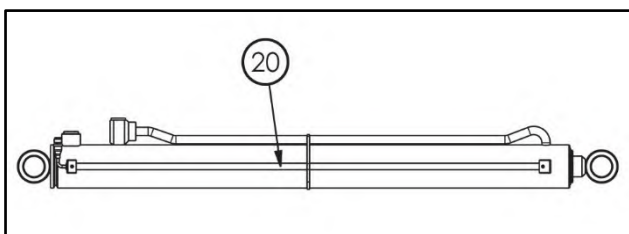
18. Steering Cylinder Sensor.

Part No. **KH70124** – Steering Cylinder Sensor



19. Arm Reach Cylinder Sensor.

Part No. **KH70125** – Arm Reach Cylinder Sensor

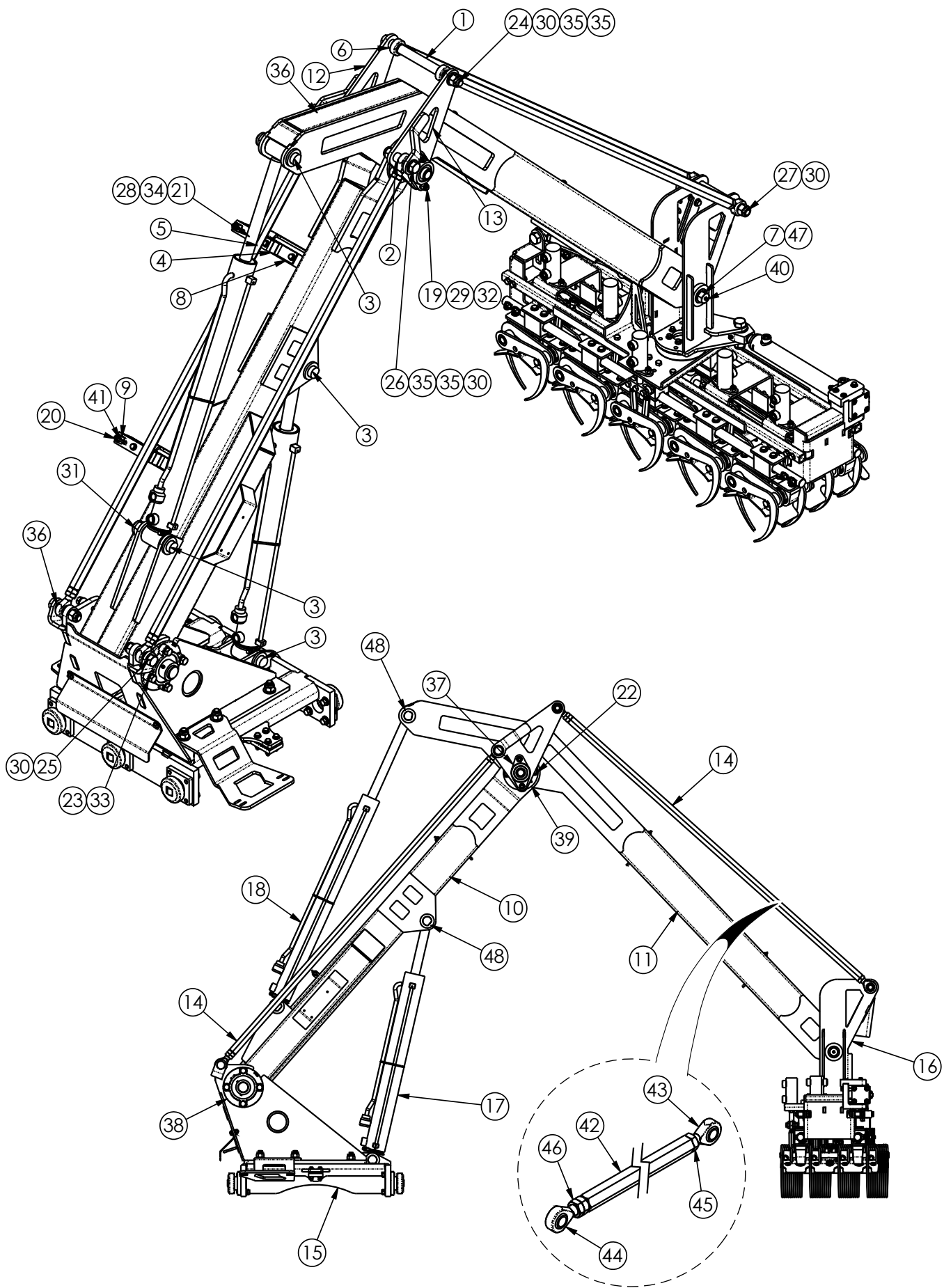


20. Lift Arm Cylinder Sensor.

Part No. **KH70126** – Lift Arm Cylinder Sensor

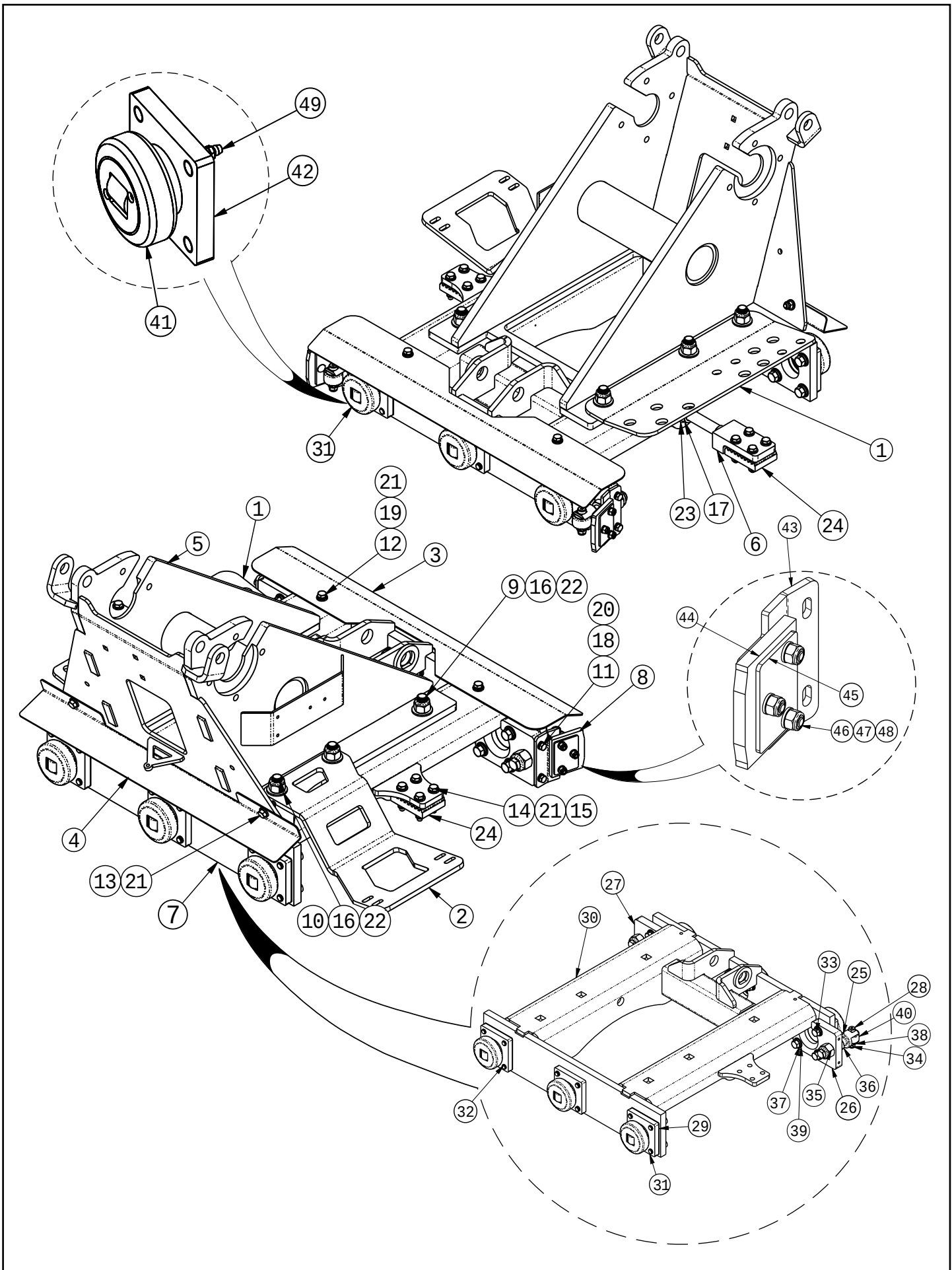
SECTION 6 ROBOTIC ARM & PALLET DISPENSER

Robotic Arm Assembly	6-01
Robotic Arm Base Assembly	6-03
Gripper Head Assembly	6-05
Gripper Pivot Assembly	6-07
Gripper Tong Assembly	6-09
Pallet Dispenser Assembly	6-11
Mast Assembly	6-13
Piling Wall Assembly	6-15
Euro Gripper Head Assembly	6-17
Euro Gripper #1 & 2 Carrier Assembly	6-19
Euro Gripper #4 & 5 Carrier Assembly	6-21
Euro Gripper - Belt Drive Sensor Mount & Belt Drive Idler/Rotate Assembly	6-23
Euro Gripper - Upper & Lower Rotator Assembly	6-25
Euro Gripper Block Assembly	6-27
Pallet Injector Assembly	6-29
Pallet Injector Sub Assemblies	6-31
Pallet Dispenser Sub Assembly	6-33
Drive Belt Assemblies	6-35
Euro Gripper Arm Assembly	6-37



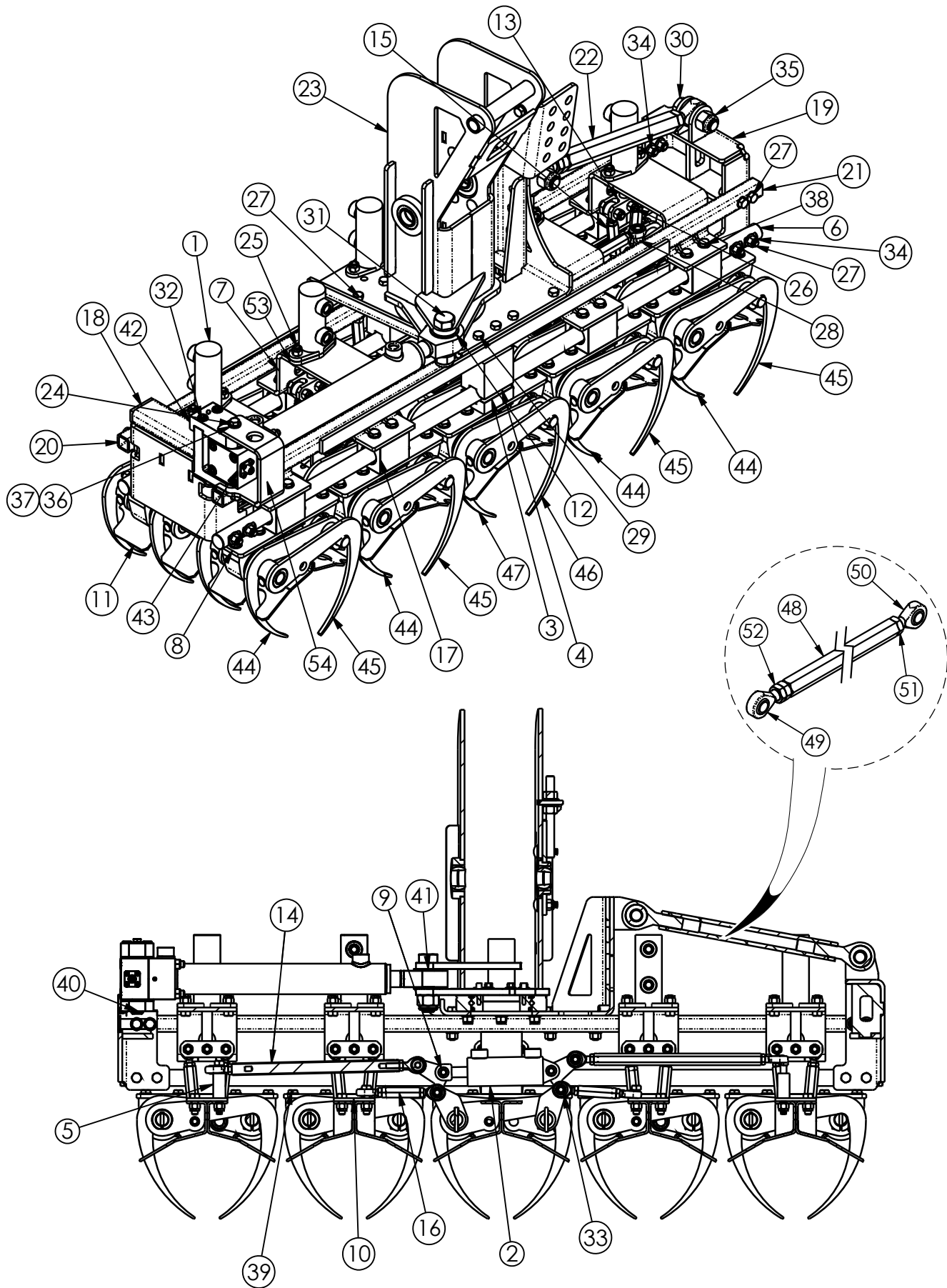
Brouwer 4000 Sod Harvester Robotic Arm Assembly

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 SLEAVE
48	KB11016	2	1.00 IN. SPHERICAL PLAIN BEARING



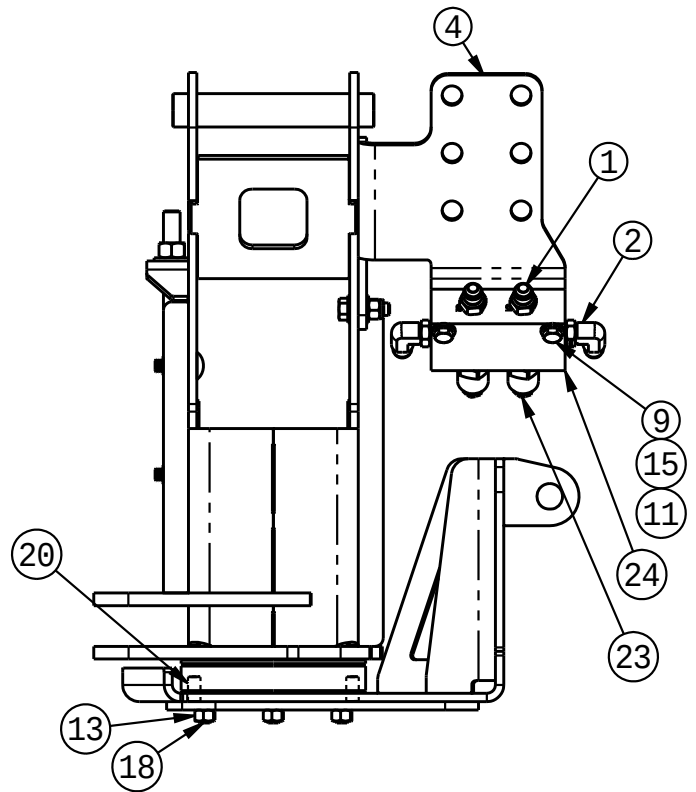
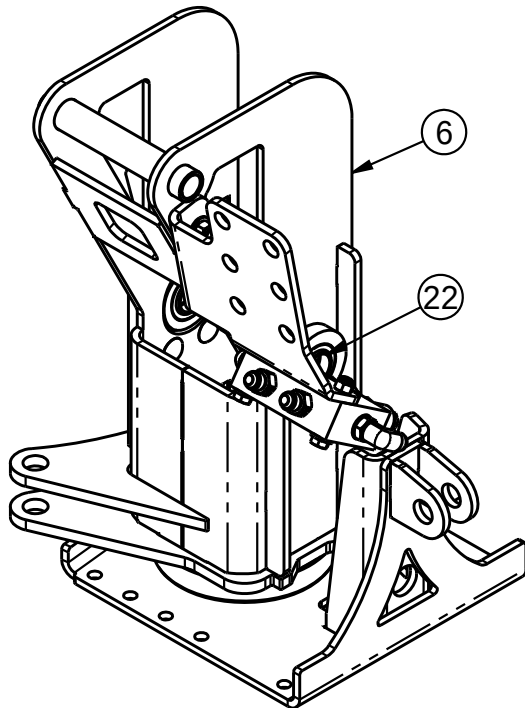
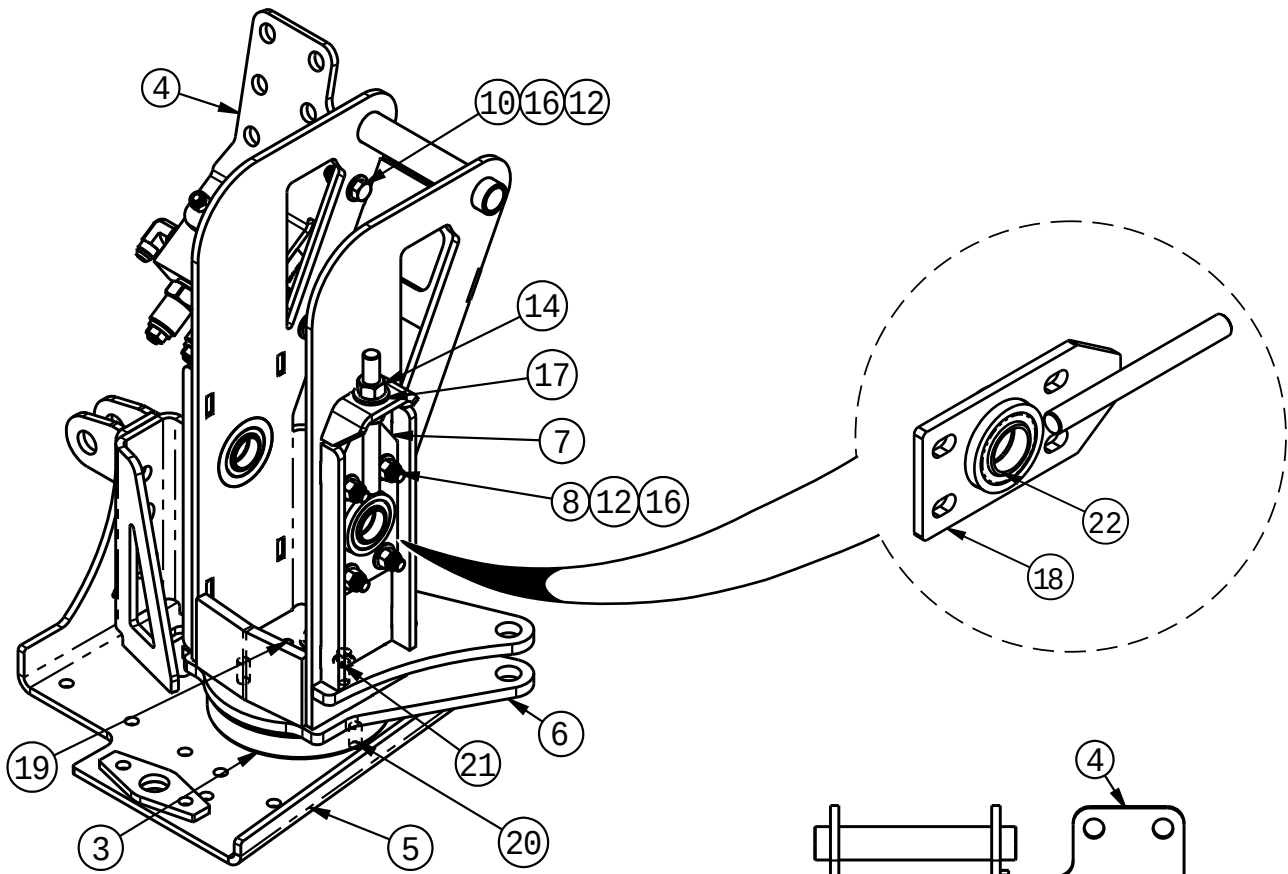
**Brouwer 4000 Sod Harvester
Robotic Arm Base Assembly**

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



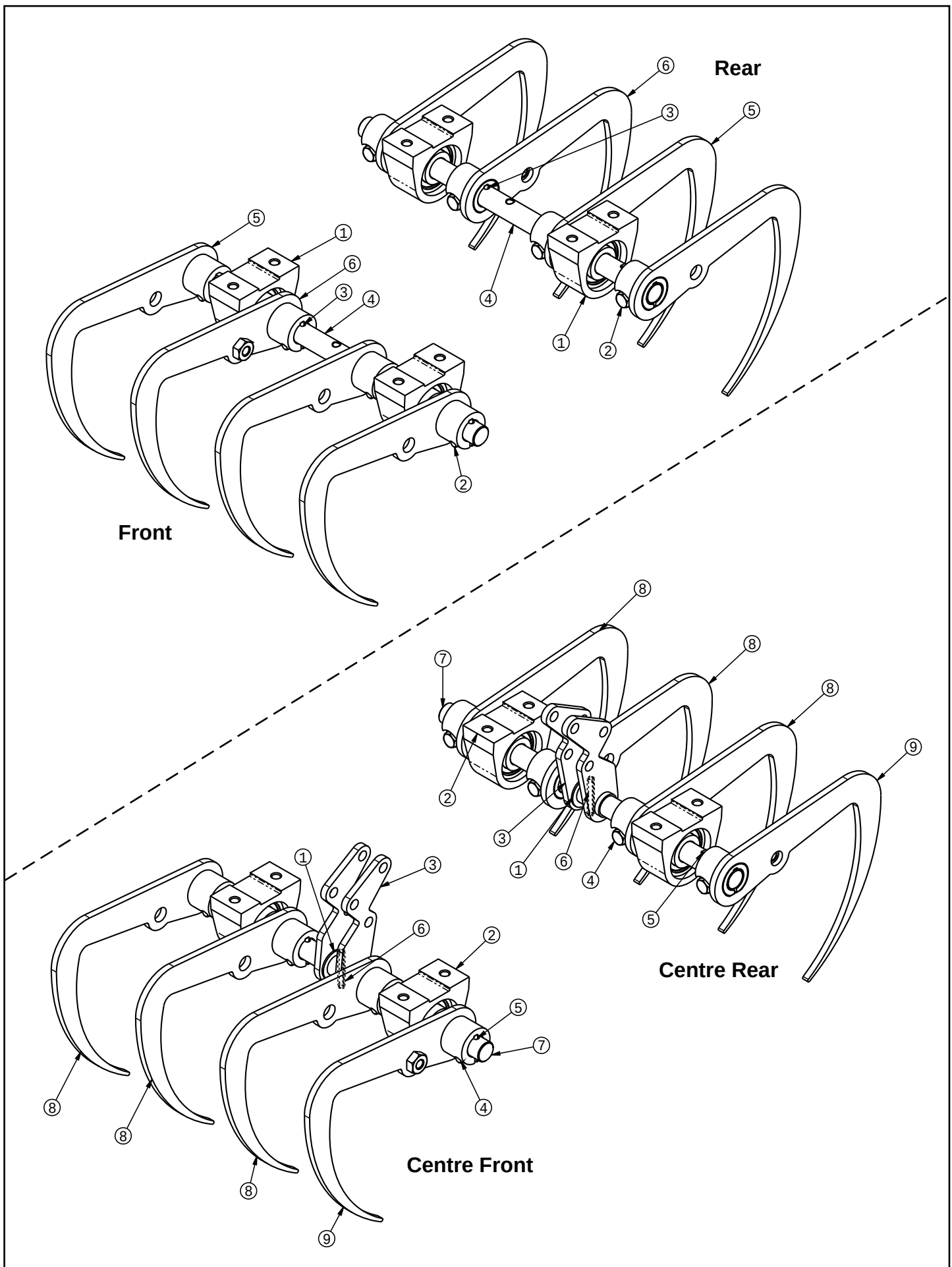
Brouwer 4000 Sod Harvester Gripper Head Assembly

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

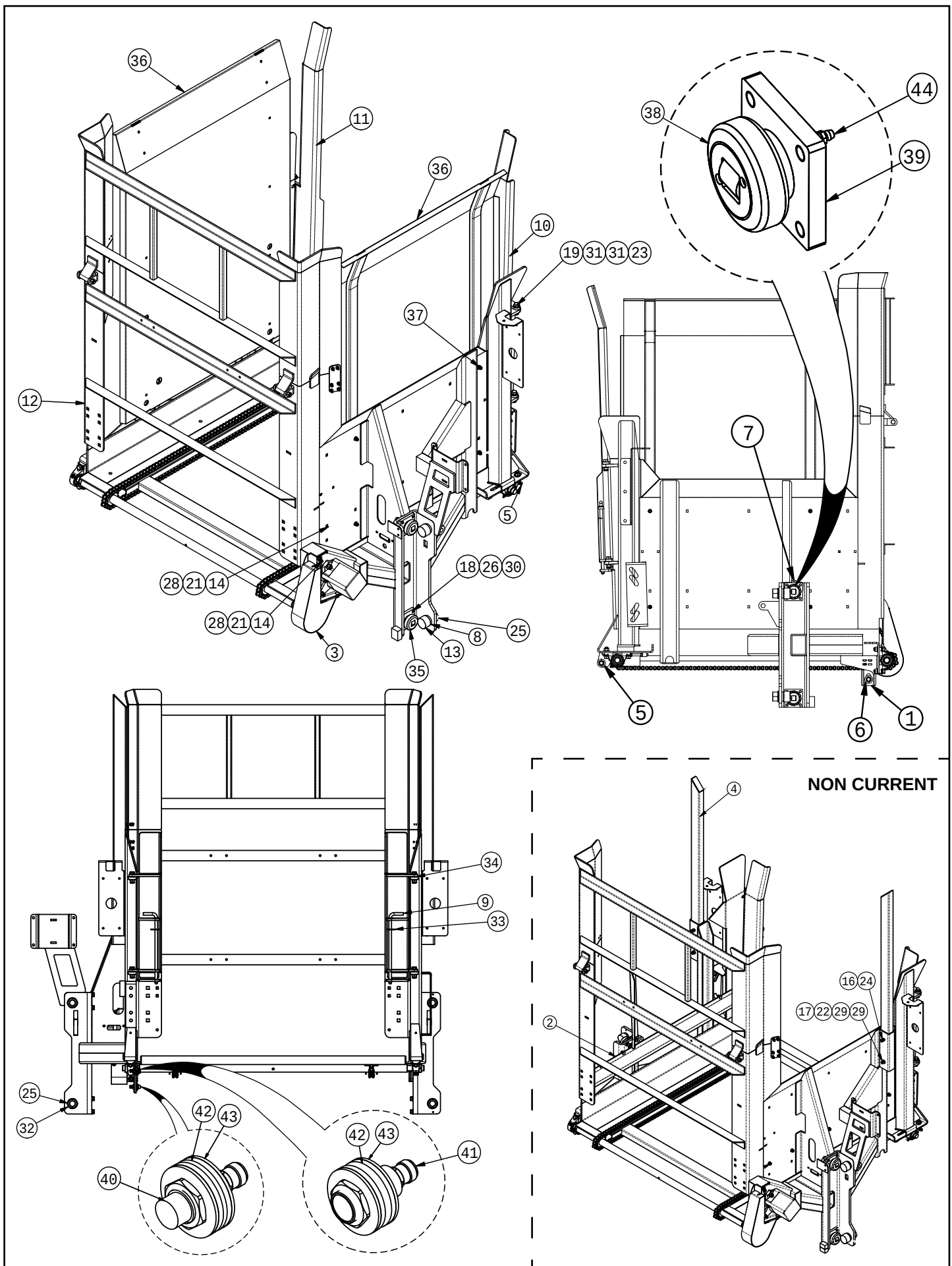
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	4128914	2	PILLOW BLOCK BEARING - 3/4 TAPPED BASE
2	F870510	4	BOLT FLANGE HEAD 5/16 - 18 X 1.0 Lg
3	F923312	4	KEY 3/16 x 3/16 x 1.25 LG.
4	R100955	1	PIVOT SHAFT
5	R300139	3	GRASPING TONG WELDMENT
6	R300140	1	GRASPING TONG W/ NUT WELDMENT

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

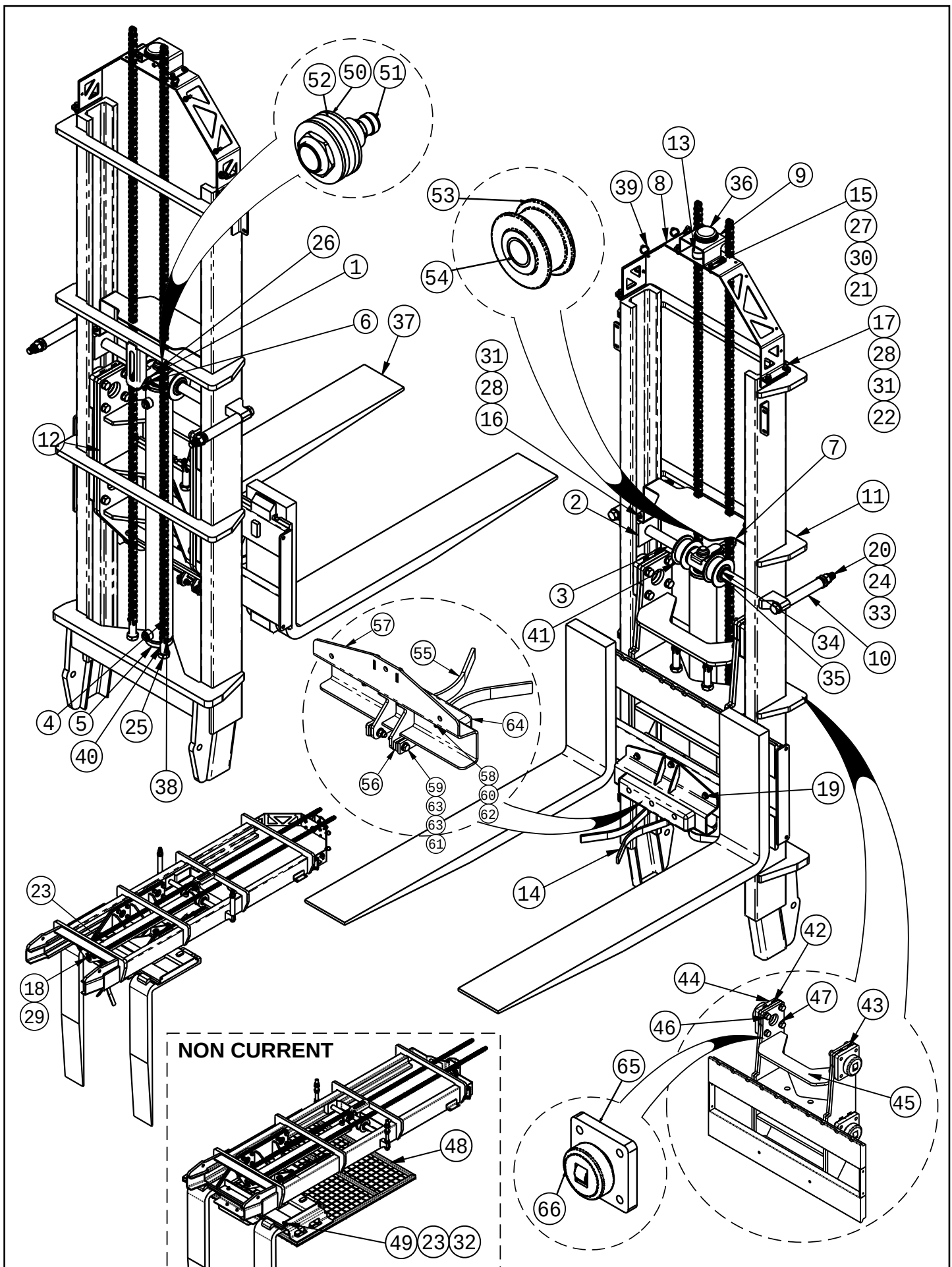
Gripper Tong Assembly - Centre Rear

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



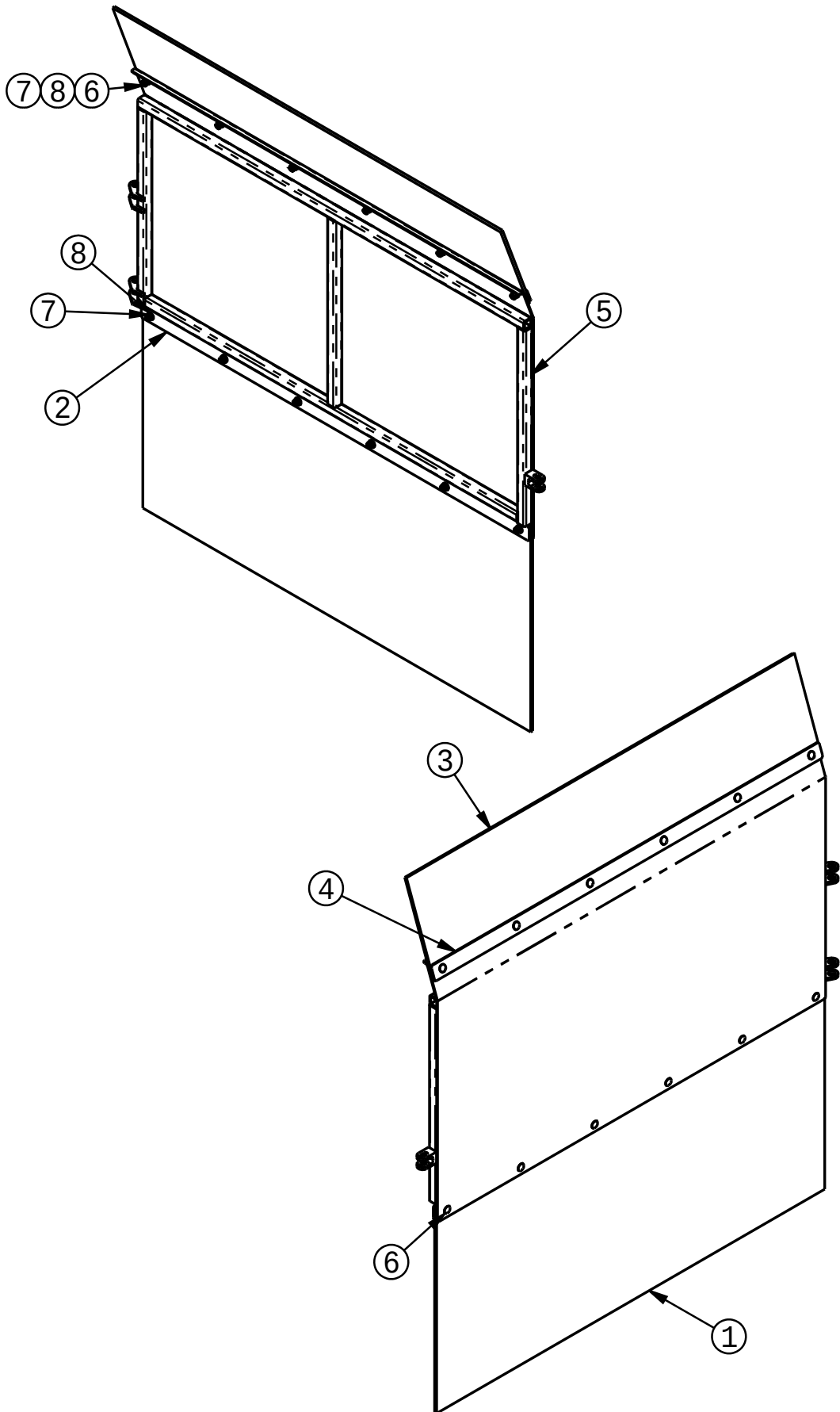
Brouwer 4000 Sod Harvester

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

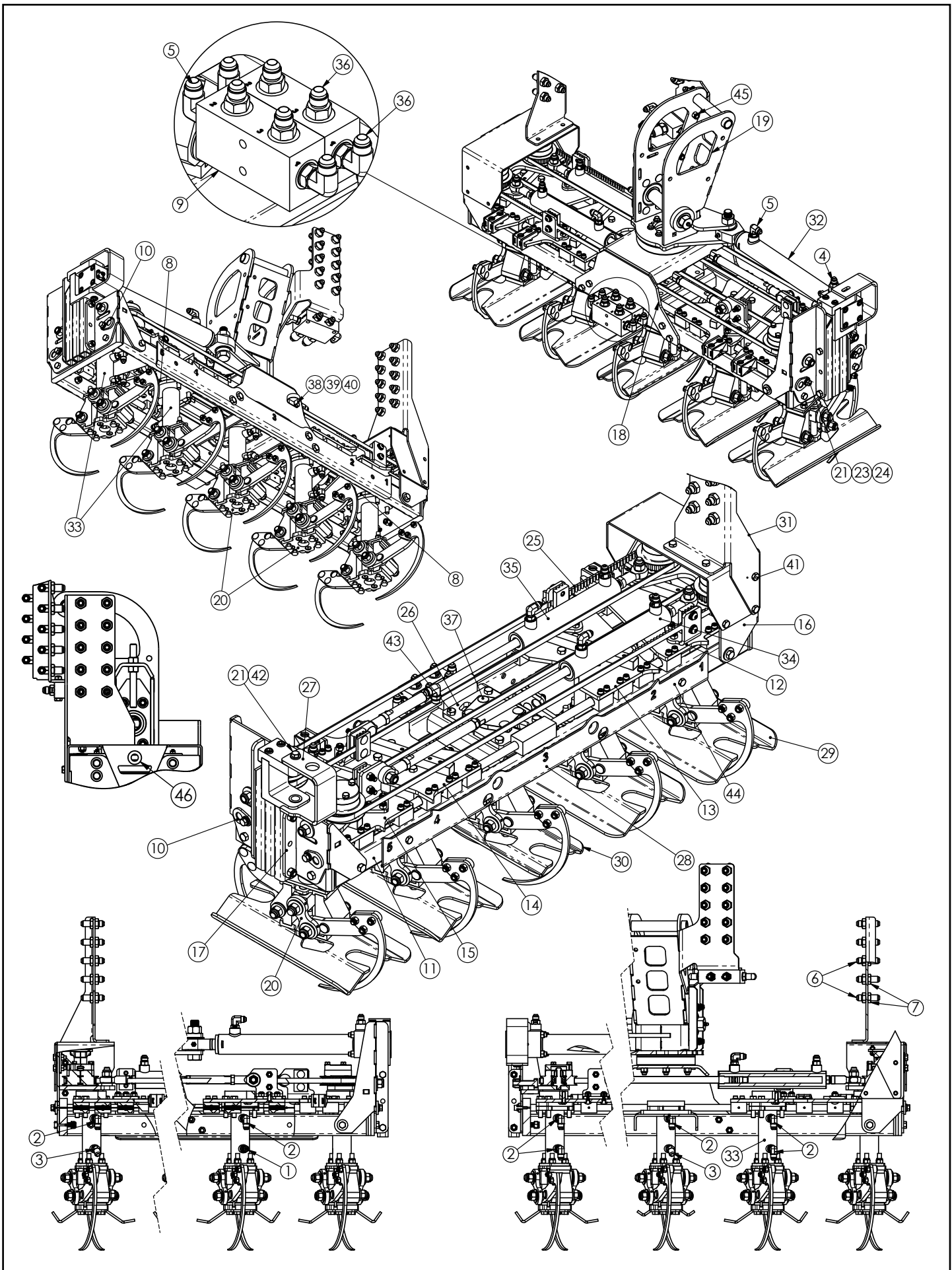
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Brouwer 4000 Sod Harvester
Piling Wall Assembly

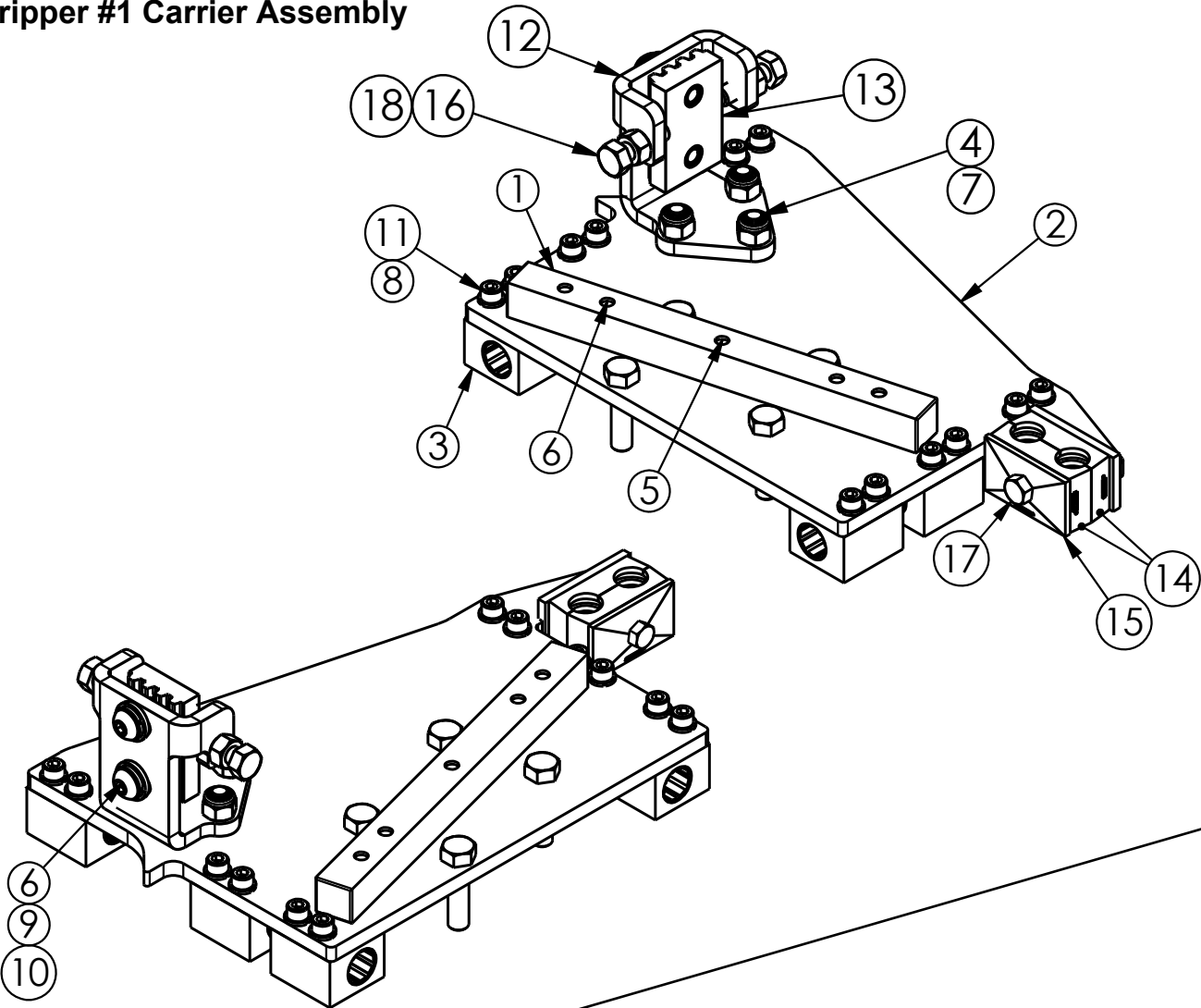
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100472	1	PILING WALL RUBBER PANEL
2	B100614	1	BACKING PLATE RUBBER PILING WALL
3	B101678	1	UPPER PILING WALL RUBBER PANEL - CURRENT
4	B101679	1	UPPER BACKING PLATE RUBBER PILING WALL - CURRENT
5	B300058	1	PILING WALL LH
	B300059	1	PILING WALL RH
6	F020510	12	5/16-18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



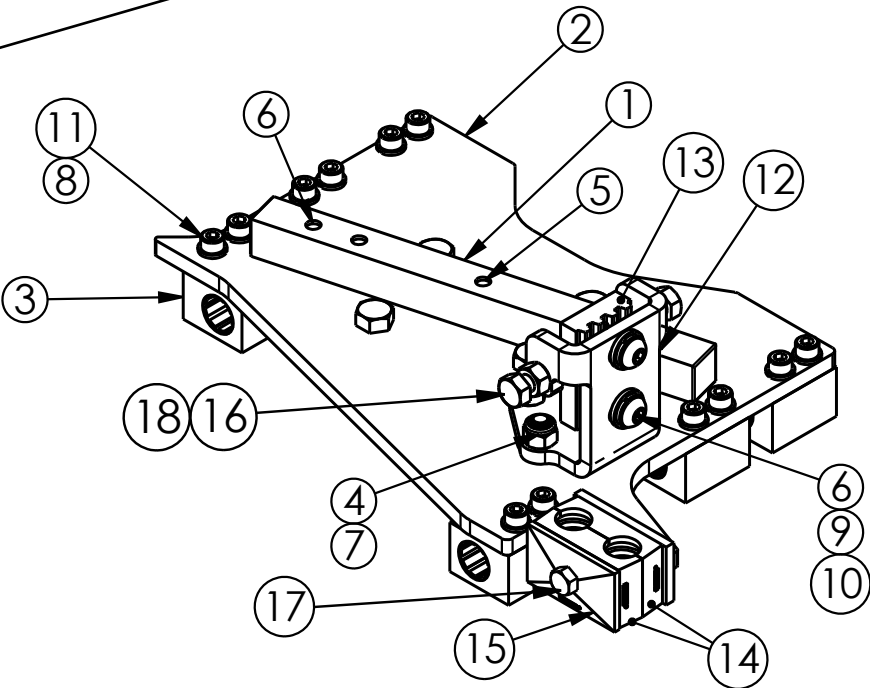
Brouwer 4000 Sod Harvester Euro Gripper Head Assembly

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

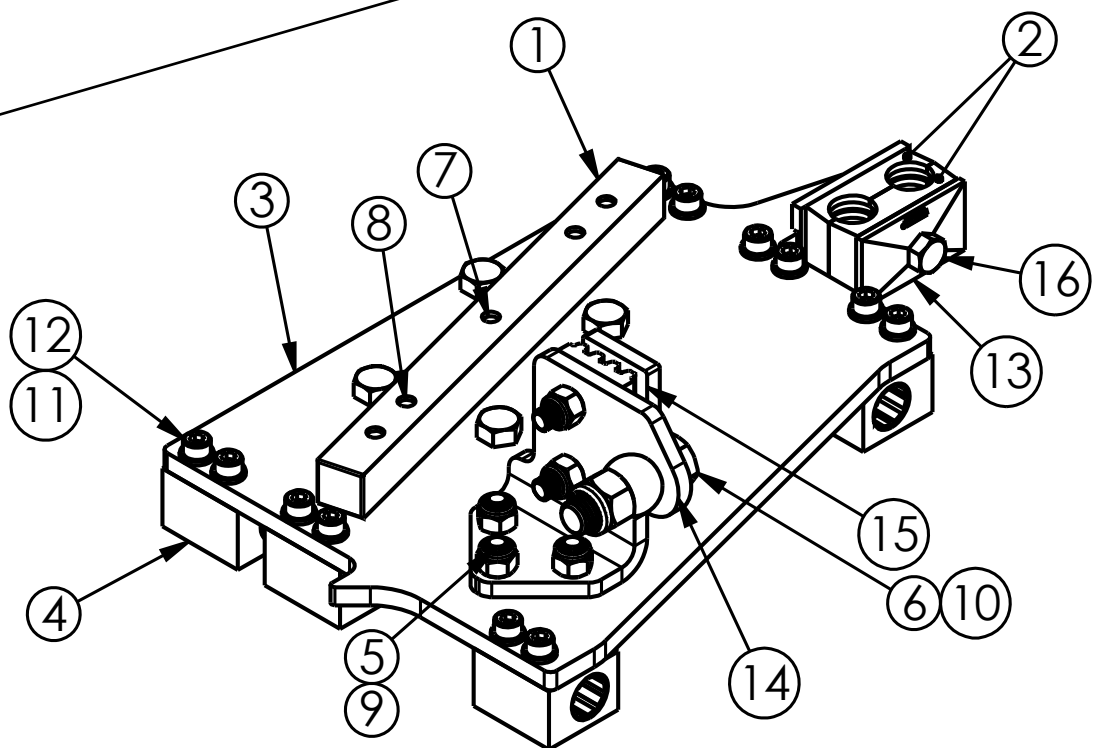
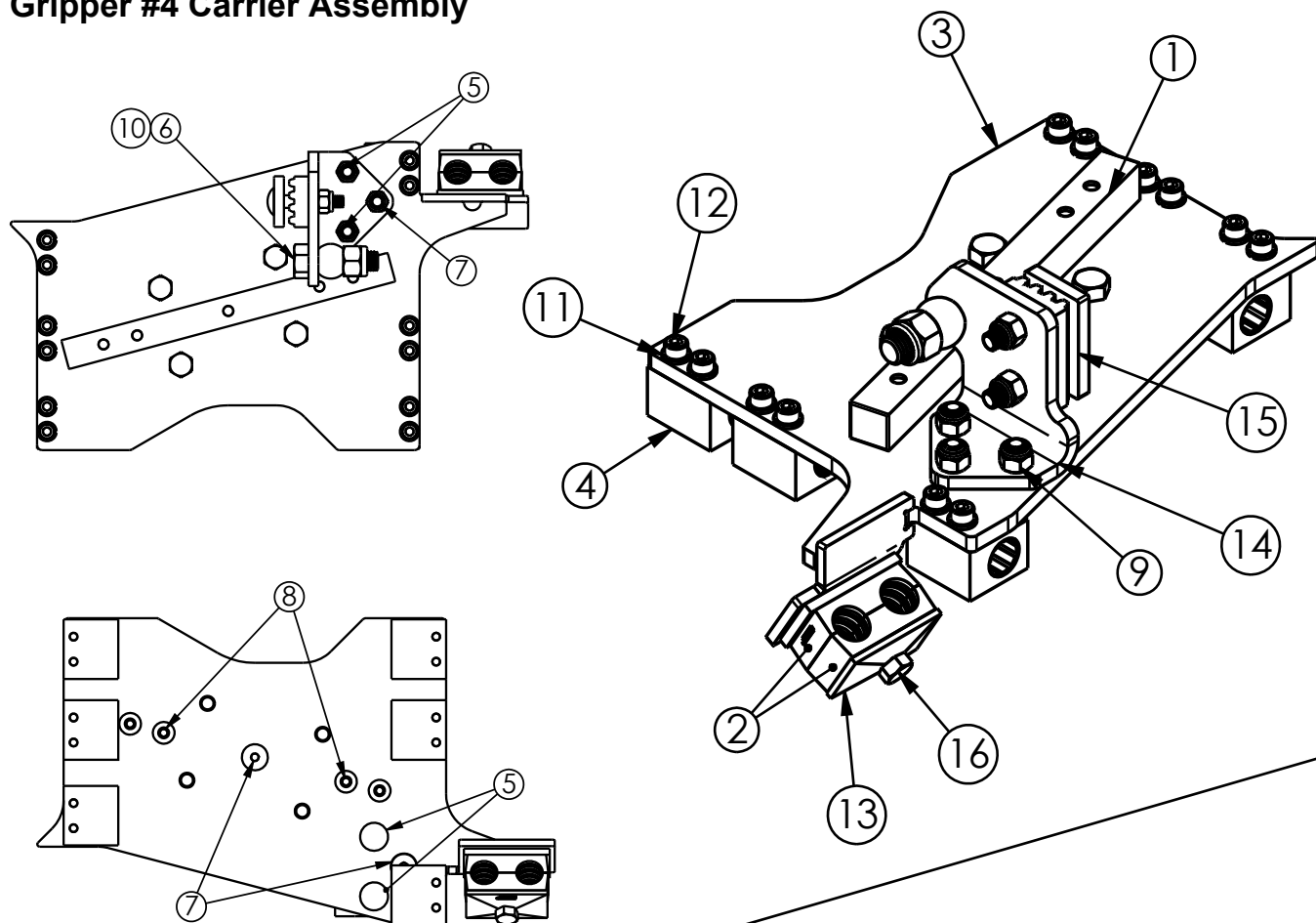
Gripper #1 Carrier Assembly

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

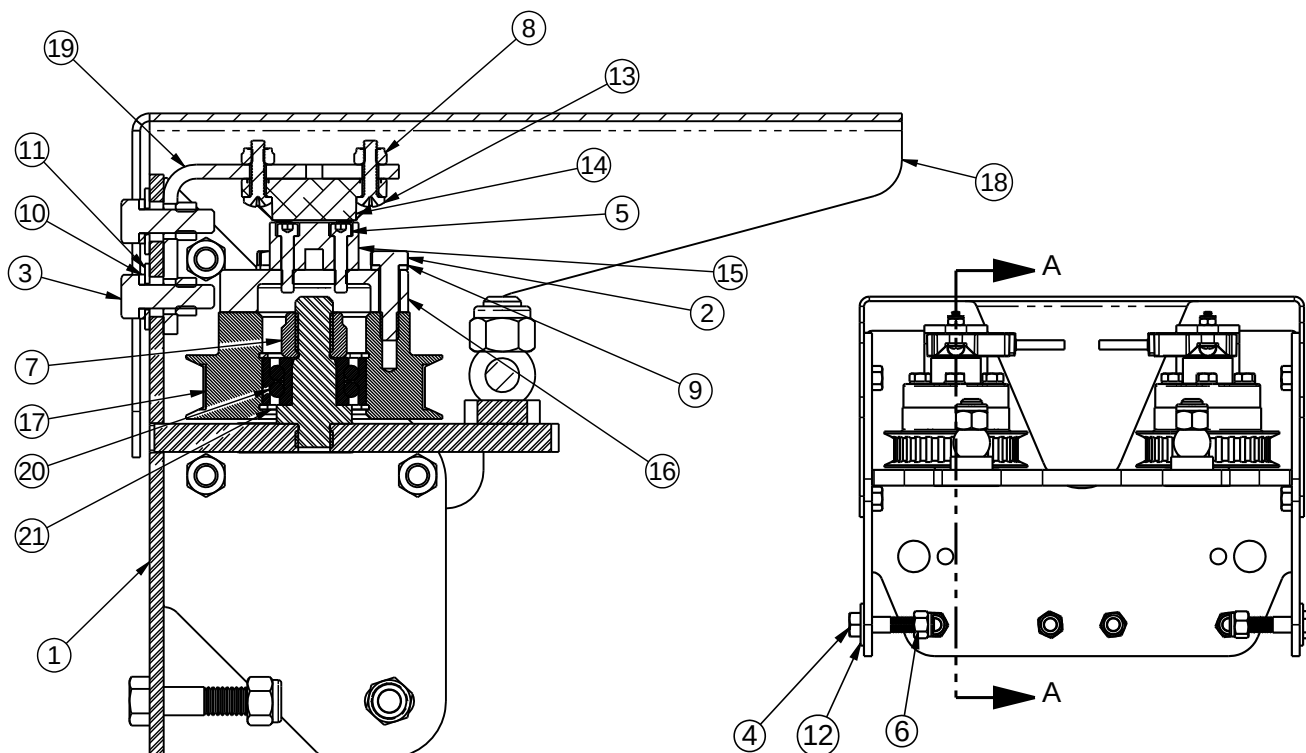
Gripper #4 Carrier Assembly

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

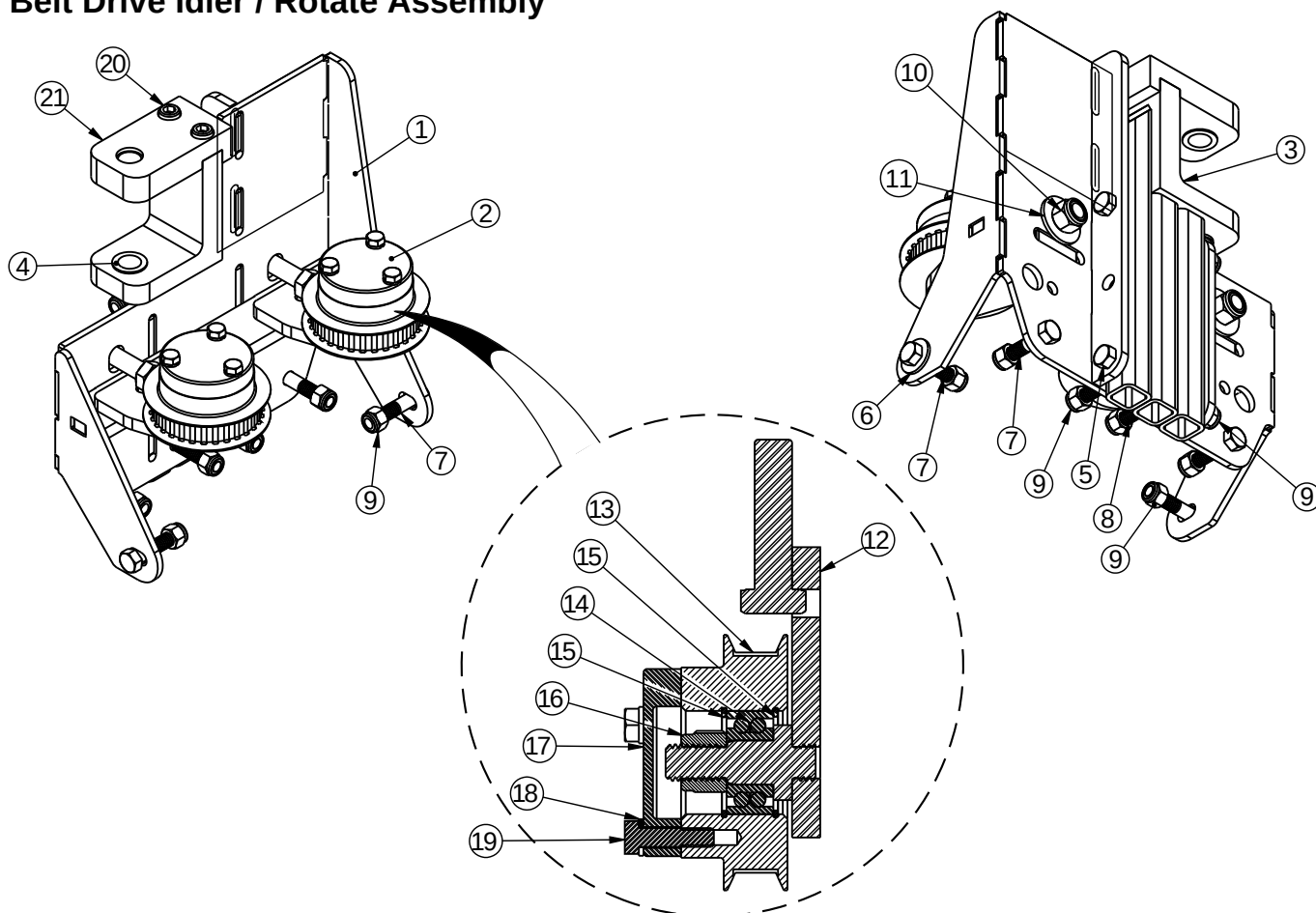
Gripper #5 Carrier Assembly

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

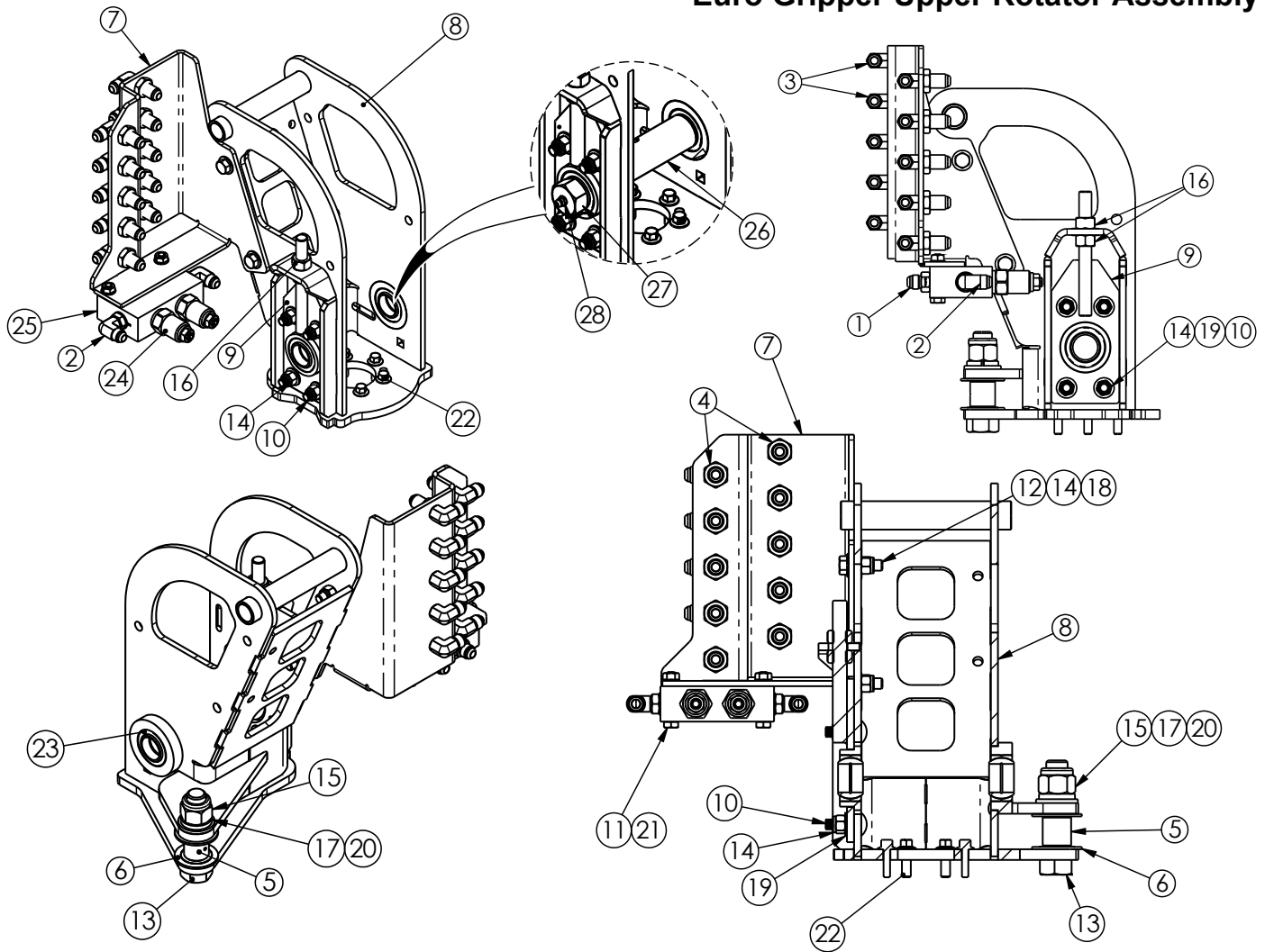
Belt Drive Sensor Mount - B500208

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

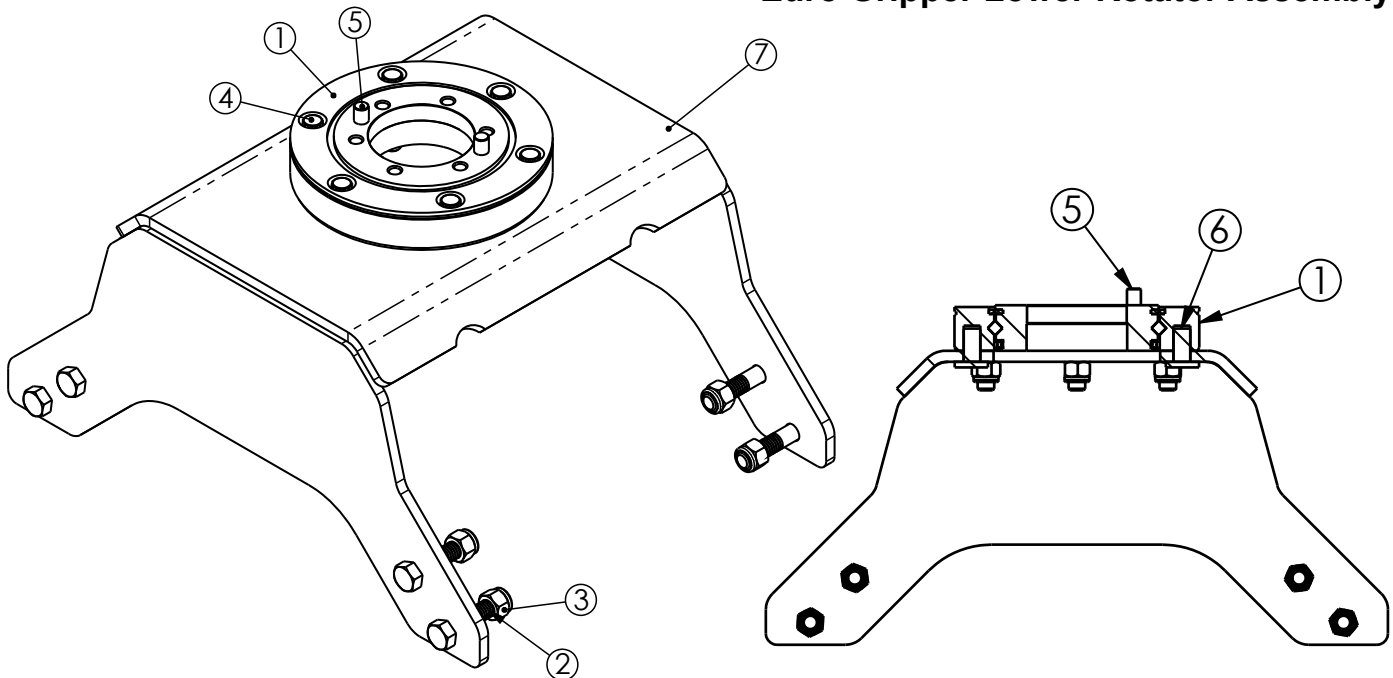
Belt Drive Idler / Rotate Assembly - B500209

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

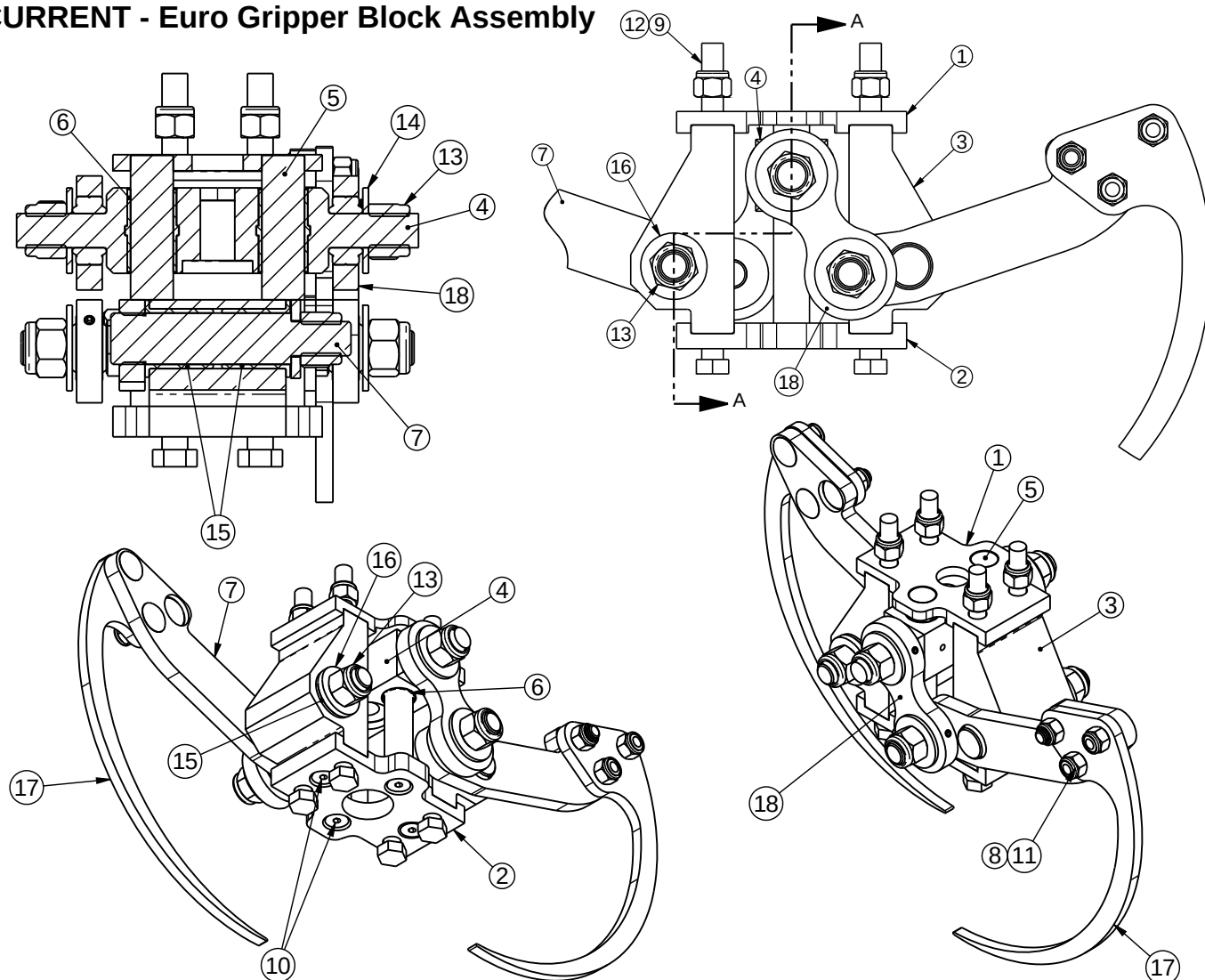
Upper Rotator Assembly – B500327

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

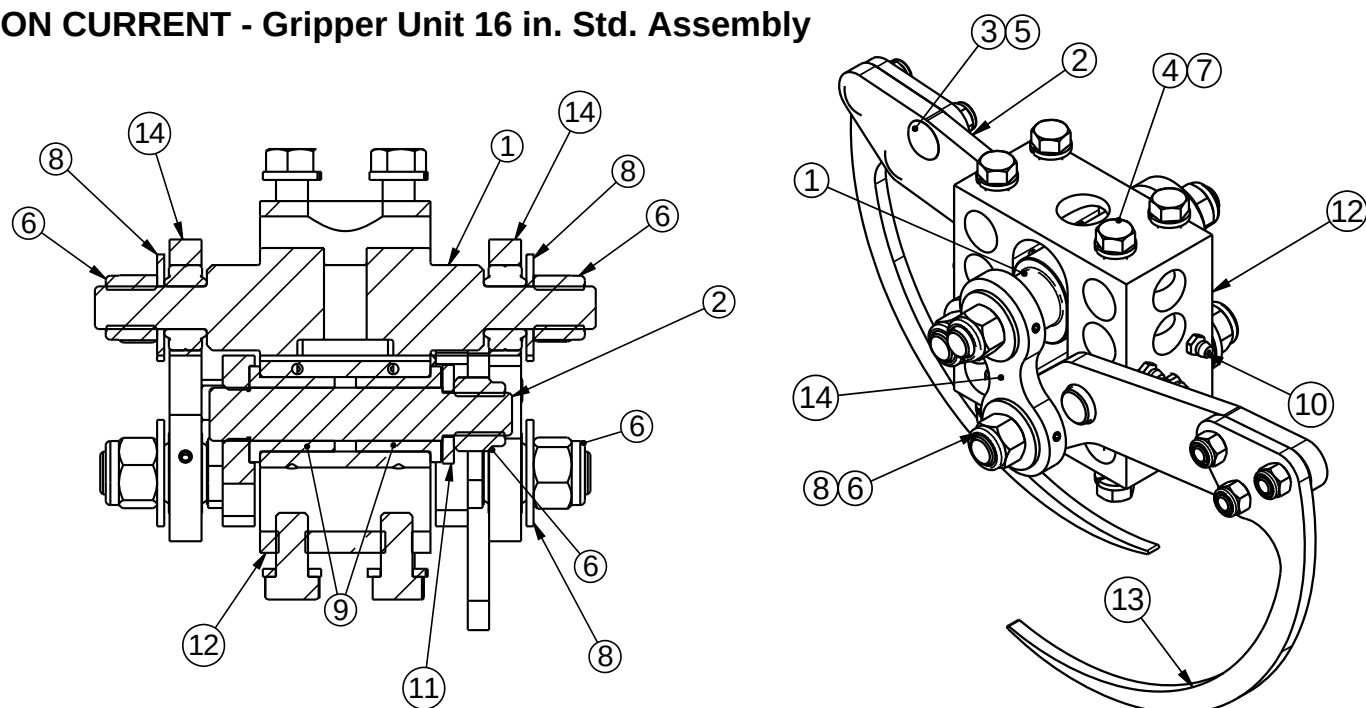
Lower Rotator Assembly – B500326

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



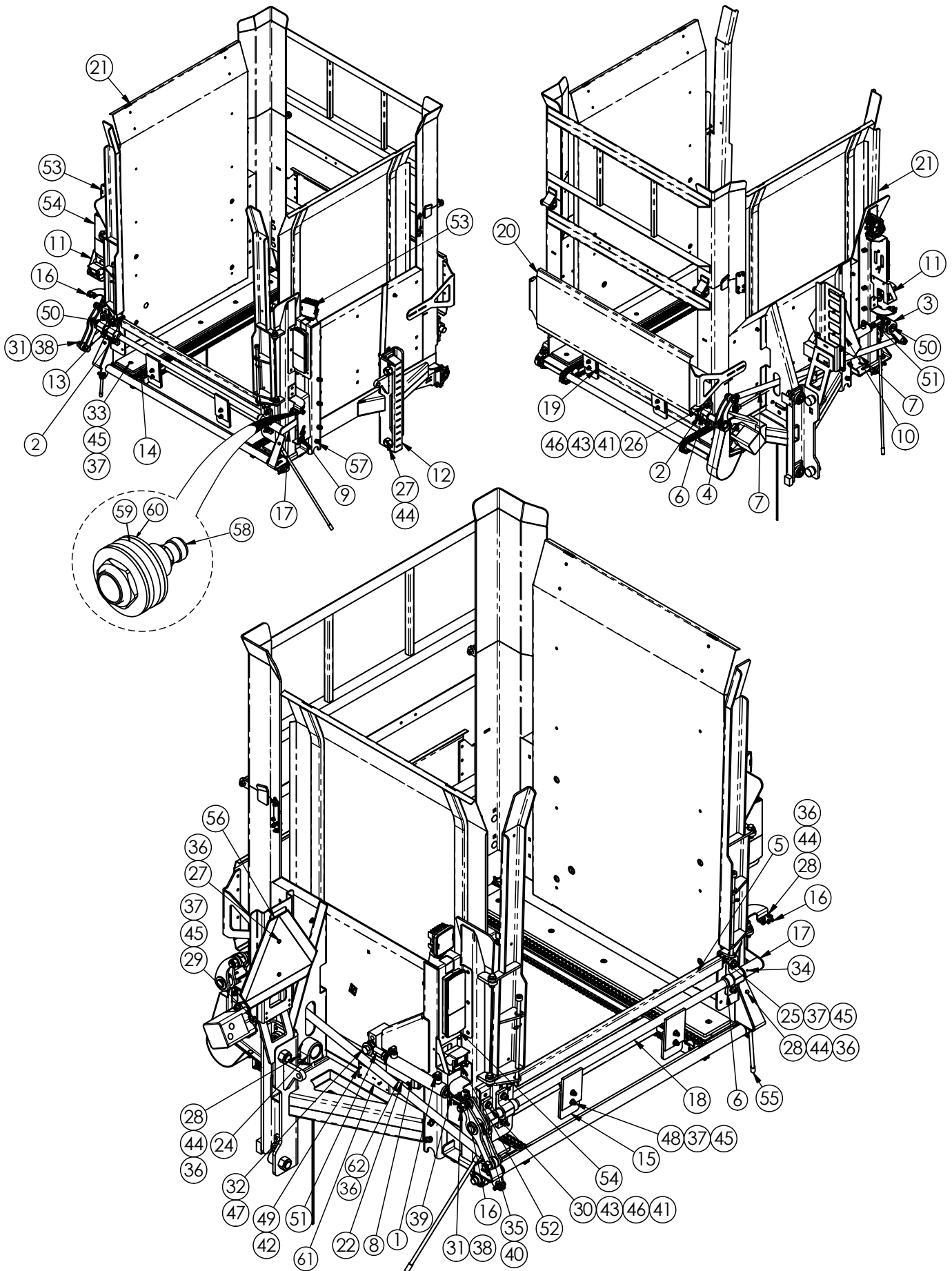
Brouwer 4000 Sod Harvester
Euro Gripper Block Assembly

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



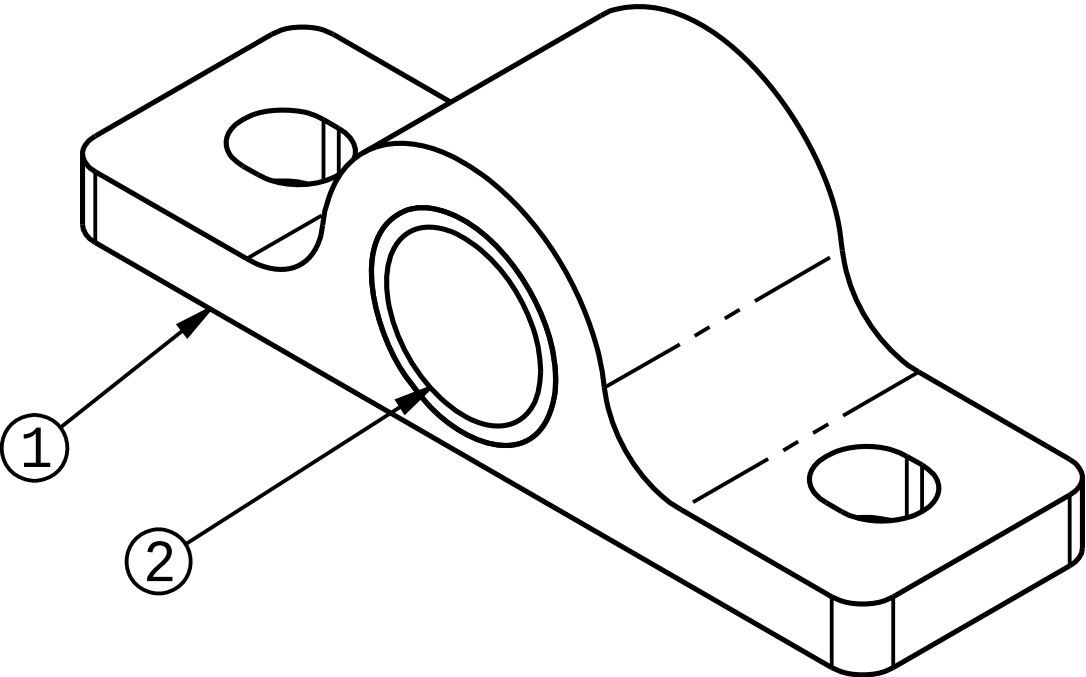
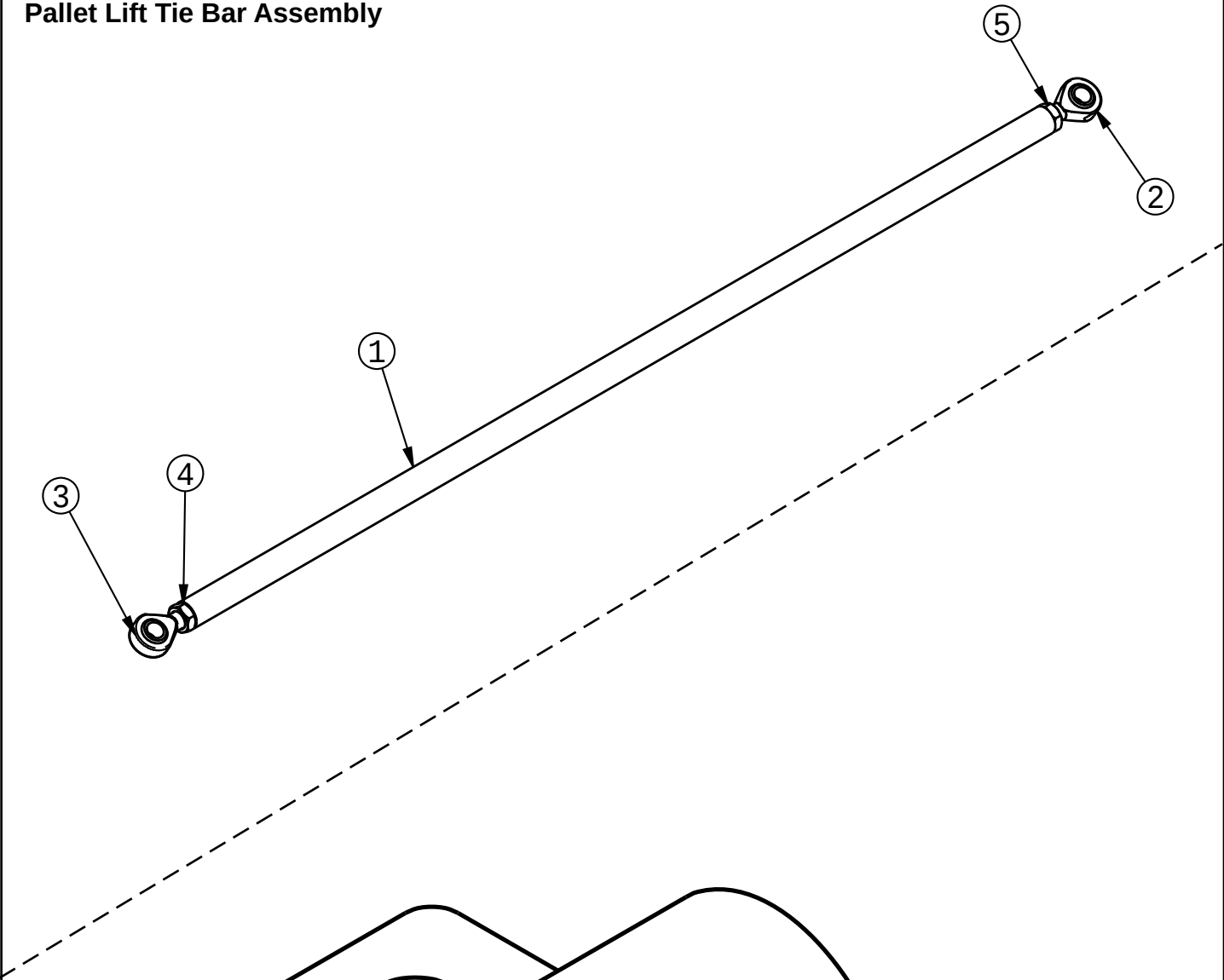
Brouwer 4000 Sod Harvester Pallet Injector Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	6-6-070220	2	NO. 6 TUBE TO NO. 6 "O" RING 90° ELBOW
2	A101406	4	LOCK COLLAR PALLET LIFT
3	A300286	1	REAR PALLET LIFT LINK
4	A300287	1	FRONT PALLET LIFT LINK
5	A300289	1	REAR CROSS TUBE PALLET INJECTOR
6	A500203	6	PALLET LIFT BUSHING ASSEMBLY (SEE PG. 6-31)
7	A500205	1	PALLET LIFT TIE BAR ASSEMBLY (SEE PG. 6-31)
8	A500206	1	PALLET LIFT CYLINDER
9	A500228	2	PROXIMITY SENSOR 18 MM ASSEMBLY
10	B100175	1	ENERGY CHAIN SUPPORT BRACKET
11	B100769	1	CAMERA MOUNTING BRACKET
12	B101171	1	CAM FOLLOWER GUARD
13	B101256	3	PALLET INJECTOR SHIM
14	B101302	2	PALLET RUNNER SLIDE
15	B101432	4	PALLET INJECTOR PADDLE EXTENSION
16	B101725	2	PALLET DOOR LATCH
17	B300074	1	PALLET INJECTOR FLAG WELDMENT
18	B300131	1	REAR PALLET LIFT SHAFT
19	B300132	1	FRONT PALLET LIFT SHAFT
20	B300157	1	REAR PILING WALL
21	B500034	1	PALLET DISPENSER SUB-ASSEMBLY (SEE PG. 6-11)
22	B500310	1	TAIL LIGHT JUNCTION BOX ASSEMBLY
23	B500354	1	MULT-PORT CABLE ASSEMBLY
24	B500391	1	BACKUP ALARM ASSEMBLY
25	F020610	2	BOLT-3/8 UNC X 1 CARRIAGE
26	F020814	10	CARRIAGE BOLT 1/2 UNC x 1.1/2 LG
27	F040406	4	BOLT 1/4 UNC x 3/4 Gr 8
28	F040410	8	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
29	F040610	4	BOLT - 3/8 UNC x 1.0 Gr 8
30	F040816	2	BOLT - 1/2 UNC X 1 3/4 Gr 8
31	F041226	3	HEX BOLT - 3/4 -10 UNC x 2.75 LG. GR 8
32	F081226	1	HEX BOLT - 3/4 -10 UNF x 2.75 LG. GR 8
33	F120614	10	FLAT HEAD HEX SOC - 3/8 -16 UNC x 1.50 LG.
34	F140402	6	SET SCREW - 1/4 -20 UNC SOC HD CUP POINT
35	F140506	4	SET SCREW 5/16-18 X 3/4 CUP PT
36	F210400	13	1/4-20 UNC NYLOC NUT
37	F210600	24	HEX LOCK NUT - 3/8 -16 UNC
38	F211208	3	NUT - 3/4 UNC NYLOC Gr 8
39	F221200	2	HEX JAM NUT 3/4 - UNF Gr. 8
40	F230500	4	HEX NUT - 5/16-18 UNC
41	F230800	12	HEX NUT - 1/2 UNC - ZINC PLATED
42	F280100	3	NUT 8-32 UNC NYLON LOCK ST. STL
43	F310800	14	LOCK WASHER - 1/2
44	F330400	16	1/4 SAE FLAT WASHER
45	F330600	24	FLAT WASHER SAE 3/8
46	F330800	12	1/2 SAE FLAT WASHER
47	F331208	2	WASHER-3/4 SAE GR 8
48	F470614	8	PLOW BOLT 3/8 -16 UNC x 1.50 LG.
49	F570110	3	PAN HD PHIL 8-32 X 1.00 LG. ST STL
50	F924422	2	KEY 0.25 X 0.25 X 2.25 LG.
51	KB16008	2	FEMALE ROD END - 3/4-16
52	KE70038	1	CAMERA ELITE, HEATD, ULTRA LOW LIGHT
53	KE90022	2	WORK LIGHT LED
54	KE90037	2	BRAKE AND TURN LED LIGHT - CURRENT FROM SN. 75
	KE90020	2	BRAKE AND TURN LED LIGHT - NON CURRENT UP TO SN. 74
55	KM00009	2	SIGHT ROD
56	KM99060	1	SMV EMBLEM
57	KX99150	12	CABLE TIE 8.0 IN. W/ FIR TREE 0.25
58	KE10155	2	INDUCTIVE PROXIMITY SWITCH
59	KS60013	2	NEOPRENE WASHER 3/4 x 1.50
60	AT01493	2	WASHER 18mm PROXIMITY SENSOR
61	B101840	1	MULTIPOINT MOUNTING PLATE
62	F020406	3	BOLT - 1/4 UNC x 3/4 CARRIAGE

21/06/2022

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Pallet Lift Tie Bar Assembly



Pallet Lift Bushing Assembly

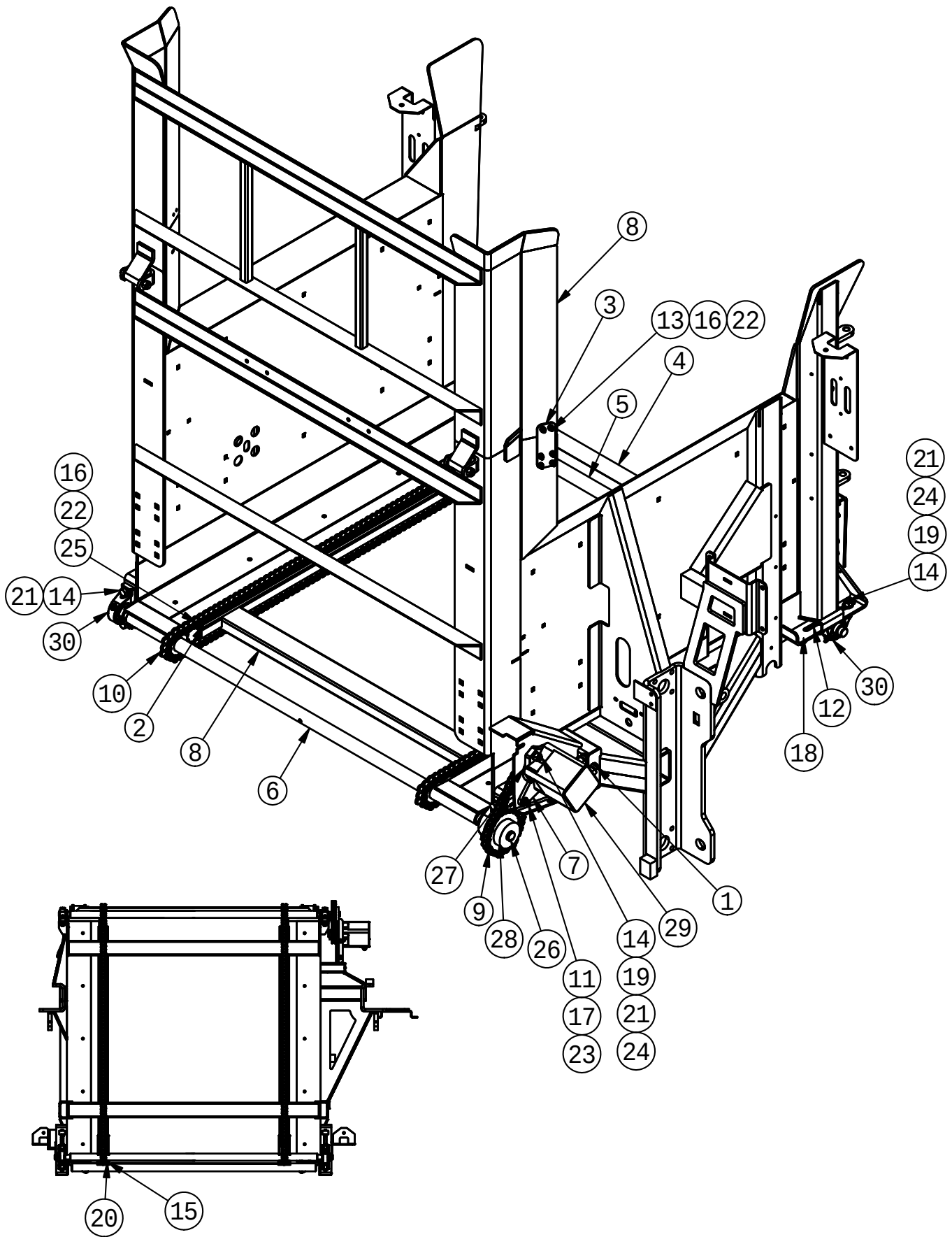
Brouwer 4000 Sod Harvester
Pallet Injector Sub Assemblies

Pallet Lift Tie Bar Assembly - A500205

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	<u>A101396</u>	1	PALLET LIFT TIE BAR
2	<u>CM00121</u>	1	ROD END - MALE 3/4 UNF R.H.
3	<u>CM00122</u>	1	ROD END - MALE 3/4 UNF LH
4	F221250	1	HEX JAM NUT - 3/4 UNF
5	<u>F221260</u>	1	HEX JAM NUT - 3/4-16 UNF LH

Pallet Lift Bushing Assembly - A500203

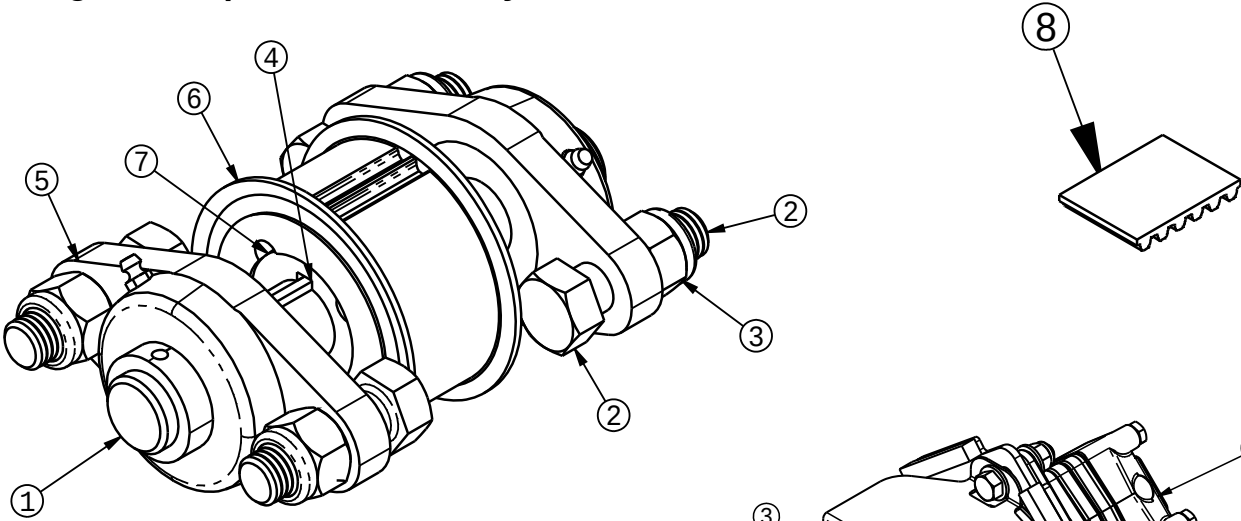
ITEM NO.	PART NO.	QTY	DESCRIPTION
11	<u>A101359</u>	1	PALLET LIFT BUSHING MOUNT
12	<u>KB12813</u>	1	SHEAVE BUSHING



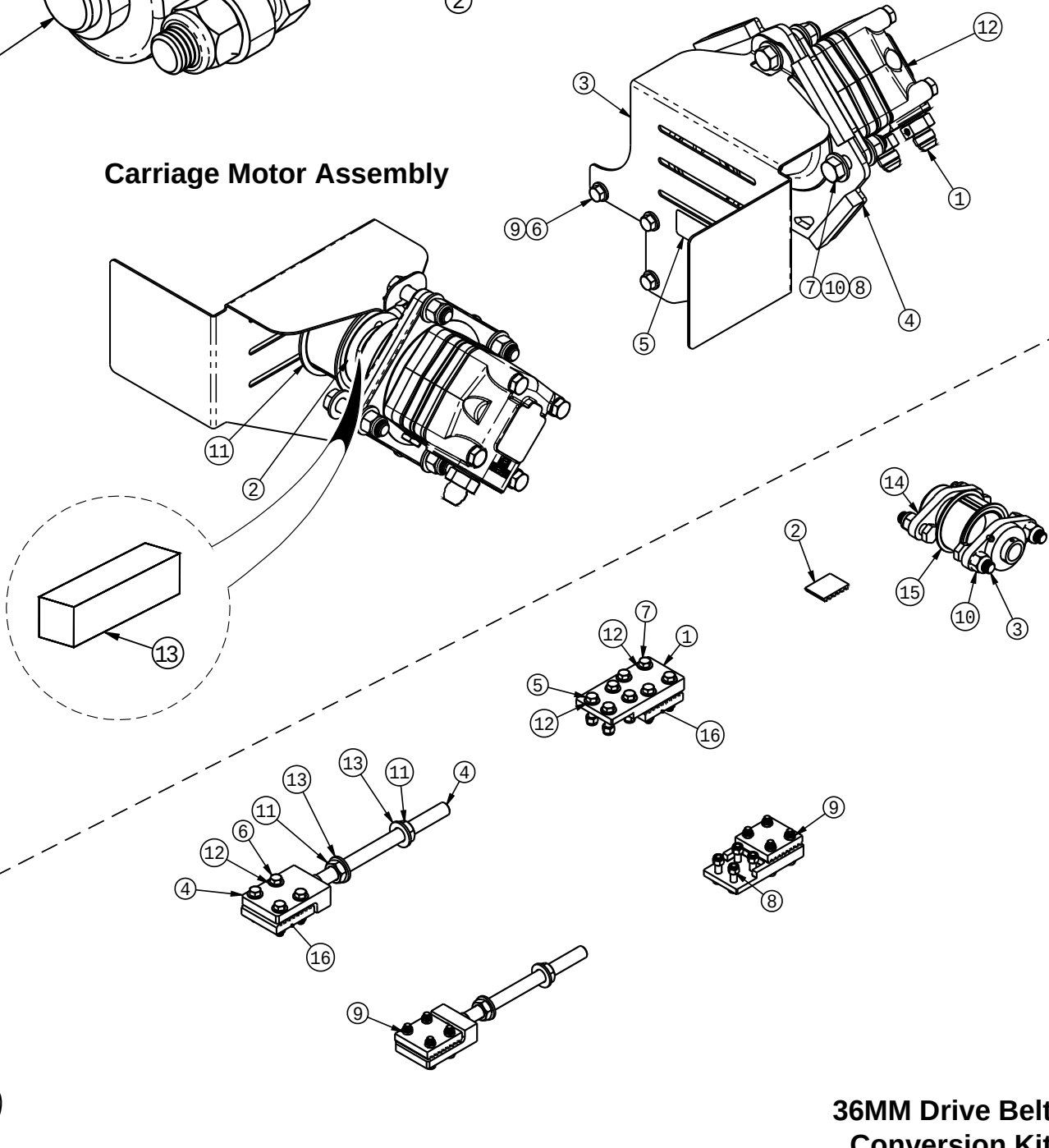
Brouwer 4000 Sod Harvester
Pallet Dispenser Sub Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	8-10-070120	2	FITTING - STRAIGHT THREAD O-RING - SAE 37° FLARE
2	A100836	2	PALLET DISPENSER CHAIN GUIDE
3	A100956	2	ATTACHMENT PLATE
4	A300128	1	PALLET PUSH TUBE WELDMENT
5	A300175	1	PALLET DISPENSER IDLER SHAFT WELD ASSEMBLY
6	A300176	1	PALLET DISPENSER DRIVE SHAFT WELD ASSEMBLY
7	B100895	1	MOTOR HOLDING CAM
8	B300091	1	PALLET DISPENSER FINAL WELDMENT
9	B500191	1	PALLET INJECTOR MOTOR CHAIN ASSEMBLY
10	B500192	2	PALLET PUSH BAR CHAIN ASSEMBLY
11	F020612	1	CARRIAGE BOLT - 3/8 UNC x 1 1/4
12	F030630	2	BOLT - 3/8 UNC x 3.00 FULL THRD
13	F040410	6	HEX BOLT - 1/4 -20 UNC x 1.00 Gr 8
14	F040816	10	BOLT - 1/2 UNC X 1 3/4 Gr 8
15	F080404	4	HEX HD 1/4 -28 UNF x 0.50 LG. Gr 8
16	F210400	22	1/4-20 UNC NYLOC NUT
17	F210600	1	HEX LOCK NUT - 3/8 -16 UNC
18	F230600	2	NUT - 3/8-16
19	F230800	10	HEX NUT - 1/2 UNC - ZINC PLATED
20	F310400	4	WASHER - 1/4 LOCK
21	F310800	10	LOCK WASHER - 1/2
22	F330400	22	1/4 SAE FLAT WASHER
23	F330600	1	FLAT WASHER SAE 3/8
24	F330800	10	1/2 SAE FLAT WASHER
25	F550406	10	FLAT HEAD PHILIPS - 1/4 -20 UNC x 0.75 LG.
26	F924414	1	KEY, 0.25 X 0.25 X 1.5 LG
27	KD41410	1	SPROCKET, RC50 14T 1.00 BORE C/W STD KEYWAY
28	KD42410	1	SPROCKET, RC50 24T 1.00 BORE C/W STD KEYWAY
29	KH30027	1	HYDRAULIC MOTOR
30	MB30001	4	PILLOW BLOCK BEARING - 1.00 BORE

Carriage Idler Sprocket Assembly



Carriage Motor Assembly



**36MM Drive Belt
Conversion Kit**

Brouwer 4000 Sod Harvester Drive Belt Assemblies

B500447 - Carriage Idler Sprocket Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B101713</u>	1	36MM BELT DRIVE IDLER SHAFT - CURRENT FROM SERIAL #79
	<u>B100261</u>	1	BELT DRIVE IDLER SHAFT - NON CURRENT UP TO SERIAL #78
2	<u>F041020</u>	4	BOLT - HEX HEAD 5/8 UNC x 2.00 Gr 8
3	<u>F211008</u>	4	NUT-5/8 UNC NYLOC Gr 8
4	<u>F924410</u>	1	KEY 0.25 X 0.25 X 1.00 LG
5	<u>KB32017</u>	2	FLANGE BEARING 1.00 DIA., SET SCREW LOCK
6	<u>KD22033</u>	1	SPROCKET, 32T, 8MM PITCH, 36MM BELT - CURRENT FROM SERIAL #79
	<u>KD22032</u>	1	GATES SPROCKET 32 TOOTH - NON CURRENT UP TO SERIAL #78
7	<u>KD52052</u>	1	TAPER LOCK BUSHING - 1210 - 1
8	<u>B101711</u>	1	36MM ARM TRAVEL BELT - CURRENT FROM SERIAL #79
	<u>KD64004</u>	1	21MM BELT - NON CURRENT UP TO SERIAL #78

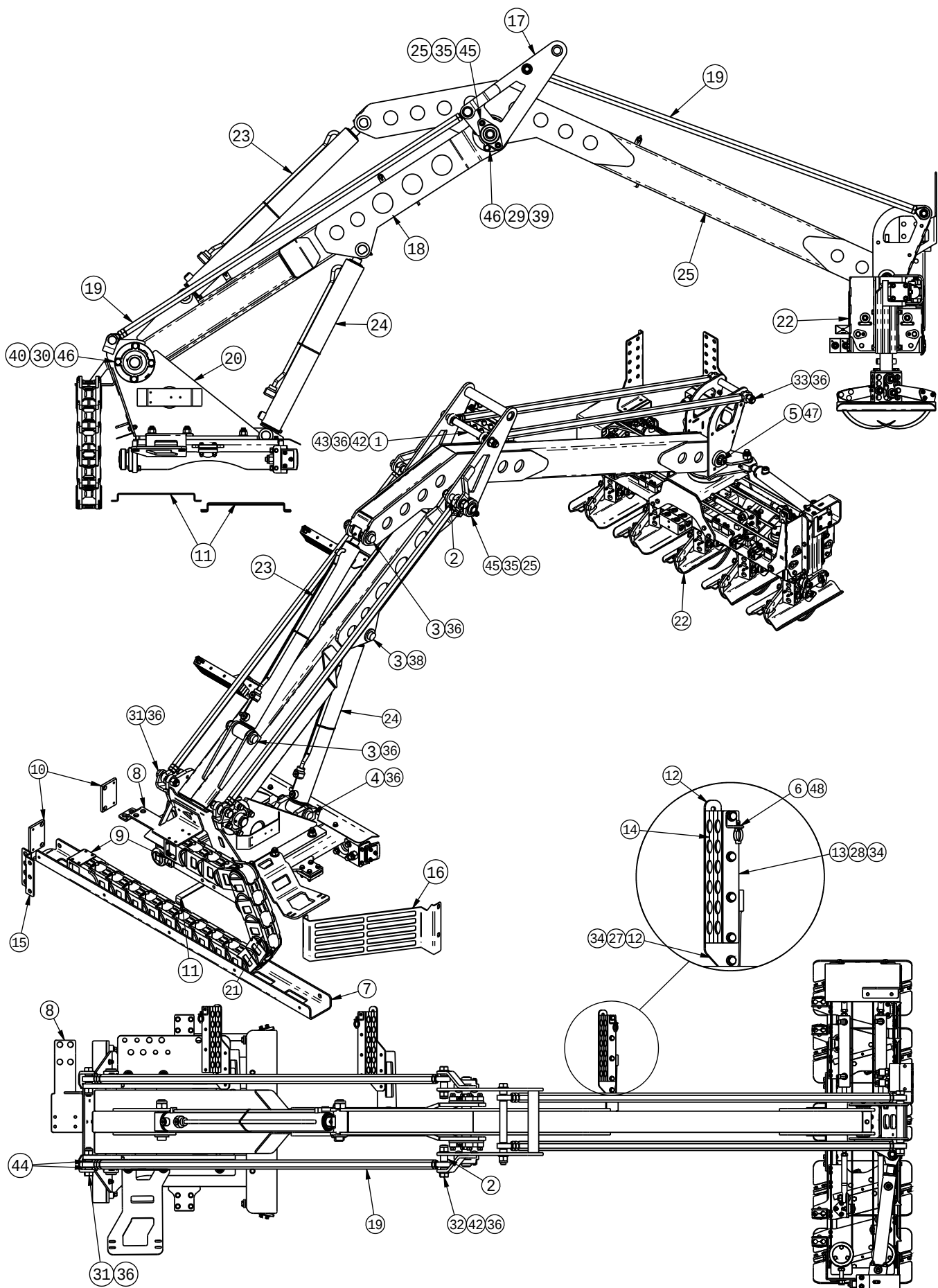
NOTE: ITEM 8 IS NOT PART OF CARRIAGE IDLER SPROCKET ASSEMBLY B500447

B500436 - Carriage Motor Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>8-10-070120</u>	2	FITTING - #10 ORB MALE TO #8 JIC MALE STRAIGHT
2	<u>B100782</u>	1	TAPER BUSHING 1210 - 1-1/4 W/ 5/16 KEY
3	<u>B101095</u>	1	ARM TRAVEL PULLEY GUARD
4	<u>B300298</u>	1	BELT DRIVE MOTOR SPACER W/A - CURRENT AS REQUIRED FROM SERIAL #79
5	<u>D001-054</u>	1	DECAL - WARNING CRUSHING HAZARD
6	<u>F040504</u>	3	5/16-18 X 1/2 LG HEX BOLT
7	<u>F040822</u>	4	BOLT - 1/2 UNC X 2 1/4 Gr 8 - CURRENT FROM SERIAL #79
	<u>F040820</u>	4	BOLT - 1/2 UNC x 2.0 Gr 8 - NON CURRENT UP TO SERIAL #78
8	<u>F210808</u>	4	NUT-1/2 UNC NYLOC Gr 8
9	<u>F330500</u>	3	5/16 SAE WASHER
10	<u>F330800</u>	8	1/2 SAE FLAT WASHER
11	<u>KD22033</u>	1	SPROCKET, 32T, 8MM PITCH, 36MM BELT - CURRENT FROM SERIAL #79
	<u>KD22032</u>	1	SPROCKET, 32T, 21MM BELT - NON CURRENT UP TO SERIAL #78
12	<u>KH30056</u>	1	CUTTER MOTOR
13	<u>F925512</u>	1	KEY - 5/16 x 5/16 x 1 1/4

B500345 - 36MM Drive Belt Conversion Kit (for machines up to Serial #78)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B101700</u>	1	36MM DRIVE BELT ADAPTER
2	<u>B101711</u>	1	36MM ARM TRAVEL BELT
3	<u>B101712</u>	4	MODIFIED BOLT - 36MM CONVERSION KIT
4	<u>B300296</u>	1	36 MM DRIVE BELT TENSIONER
5	<u>F040614</u>	4	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
6	<u>F040616</u>	4	BOLT - 3/8 UNC x 1 3/4 Gr 8
7	<u>F040620</u>	4	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
8	<u>F210600</u>	4	HEX LOCK NUT - 3/8 -16 UNC
9	<u>F210600</u>	8	HEX JAM LOCK NUT - 3/8 -16 UNC
10	<u>F211000</u>	4	NUT-5/8 UNC NYLOC
11	<u>F221250</u>	2	HEX JAM NUT - 3/4 UNF
12	<u>F330600</u>	12	FLAT WASHER SAE 3/8
13	<u>F331200</u>	2	SAE FLAT WASHER - 3/4 IN.
14	<u>KB32017</u>	2	FLANGE BEARING 1.00 DIA., SET SCREW LOCK
15	<u>KD22033</u>	2	SPROCKET, 32T, 8MM PITCH, 36MM BELT
16	<u>KD64011</u>	2	TOP PLATE - BELT ATTACHMENT 36-8MGT

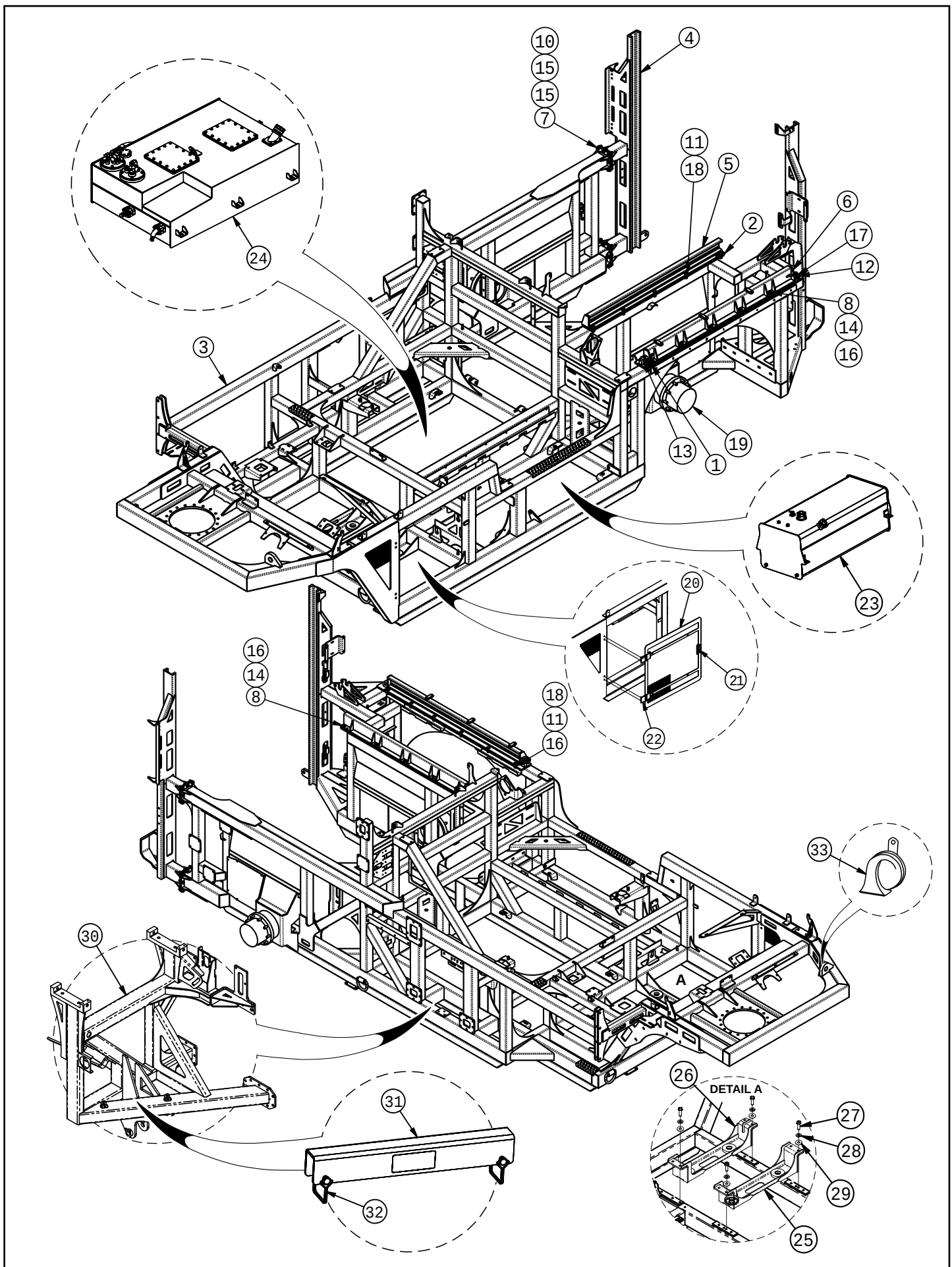


Brouwer 4000 Sod Harvester Euro Gripper Arm Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100212	1	LINKAGE REACH SPACER
2	B100219	2	SPACER LINKAGE UPPER
3	B100226	3	REACH & LIFT CYLINDER PIN
4	B100227	1	LIFT CYLINDER LOWER PIN
5	B101045	2	PIVOT BOLT
6	B101234	3	ELECTRICAL MOUNT ARM
7	B101306	1	EURO ARM E-TRACK SUPPORT
8	B101307	1	UPPER E-TRACK MOUNTING BRACKET
9	B101342	2	ENERGY CHAIN TOP PLATE
10	B101452	2	EURO ARM VALVE ADAPTER PLATE
11	B101476	2	FENDER HOSE CLAMP EURO
12	B101657	3	HOSE CLAMP ADAPTER - EURO GRIPPER
13	B101658	3	HOSE CLAMP TOP PLATE - EURO GRIPPER
14	B101659	12	HOSE CLAMP BAR - EURO GRIPPER
15	B101674	1	VALVE BANK BULKHEAD - EURO GRIPPER HOSES
16	B101716	1	REAR LH GUARD (EURO GRIPPER)
17	B300202	1	ELBOW LINKAGE
18	B300244	1	LIFT ARM WELDMENT
19	B500015	4	LINKAGE BAR ASSEMBLY (SEE PG. 6-02)
20	B500017	1	BASE ASSEMBLY (SEE PG. 6-04)
21	B500199	1	EURO GRIPPER ENERGY CHAIN
22	B500207	1	EURO GRIPPER ASSEMBLY (SEE PG. 6-18)
23	B500217	1	REACH CYLINDER ASSEMBLY
24	B500218	1	LIFT CYLINDER ASSEMBLY
25	B500331	1	REACH ARM ASSEMBLY (EURO GRIPPER)
25	F020716	4	7/16-UNC 1-3/4 LG CARRIAGE BOLT
27	F040510	3	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
28	F040540	4	BOLT-5/16 UNC X 4.00 GR 8
29	F040714	8	BOLT - 7/16 UNC x 1 1/2 Gr 8
30	F040816	8	BOLT - 1/2 UNC X 1 3/4 Gr 8
31	F041234	2	HEX BOLT 3/4 -10 UNC x 3.50 LG. GR 8
32	F041240	2	HEX BOLT 3/4 -10 UNC x 4.00 LG. GR 8
33	F041286	1	HEX BOLT - 3/4 -10 x 8.75 LG. GR 8
34	F210500	13	NUT-5/16 UNC NYLOC
35	F210700	4	HEX LOCK NUT - 7/16 UNC
36	F211200	6	NYLOC NUT 3/4 UNC
36	F211650	3	NYLOC NUT 1.00 -14 UNF
38	F271650	1	1.00-14 UNF NYLOC JAM NUT
39	F310700	12	LOCK WASHER - 7/16
40	F310800	8	LOCK WASHER - 1/2
41	F330500	20	5/16 SAE WASHER
42	F331200	6	SAE FLAT WASHER - 3/4 IN.
43	F0412110	1	HEX BOLT - 3/4 -10 x 11.0 LG. GR 8
44	H110623	4	TIE ROD BALL END SPACER (4WD NH)
45	KB10205	2	BALL BEARING SERIES UC2 (SET SCREW TYPE) WITH HOUSING
46	KB31024	2	FLANGE BEARING 1.50 DIA. - 4 BOLT
46	KB31025	2	FLANGE BEARING 1.25 DIA. 4 BOLT
47	KM11400	2	STRAIGHT GREASE FITTING
48	KX99150	3	CABLE TIE 8.0 IN. W/ FIR TREE 0.25

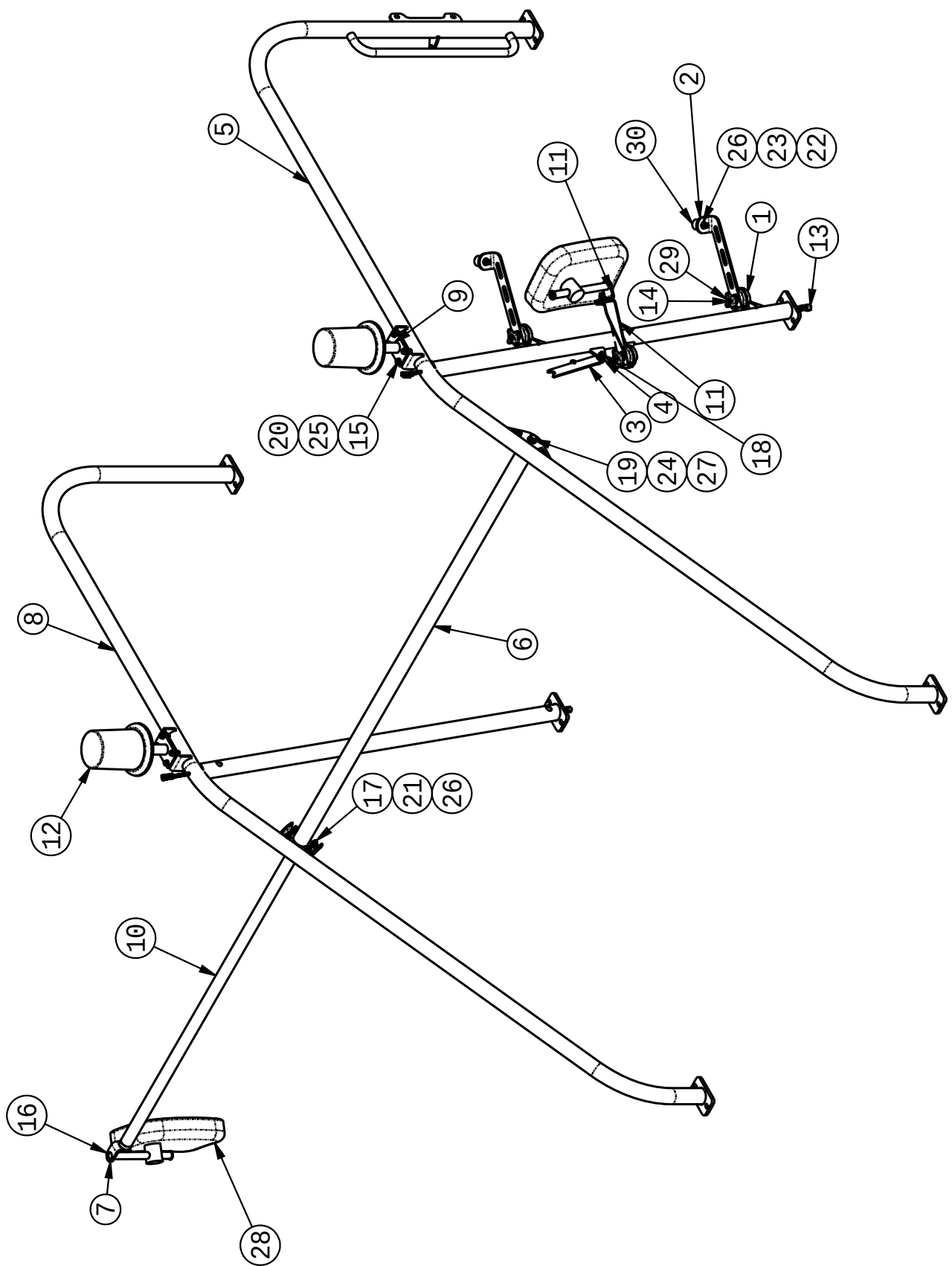
SECTION 7 HARVESTER FRAME & CAB

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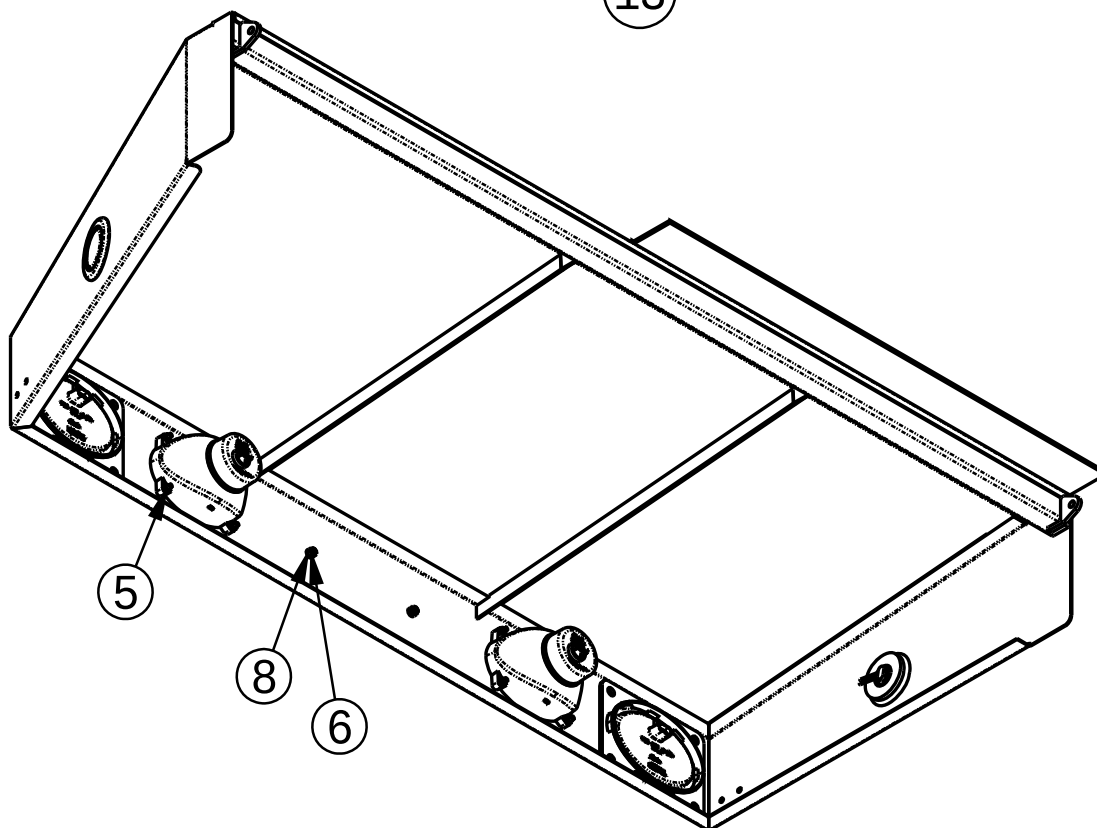
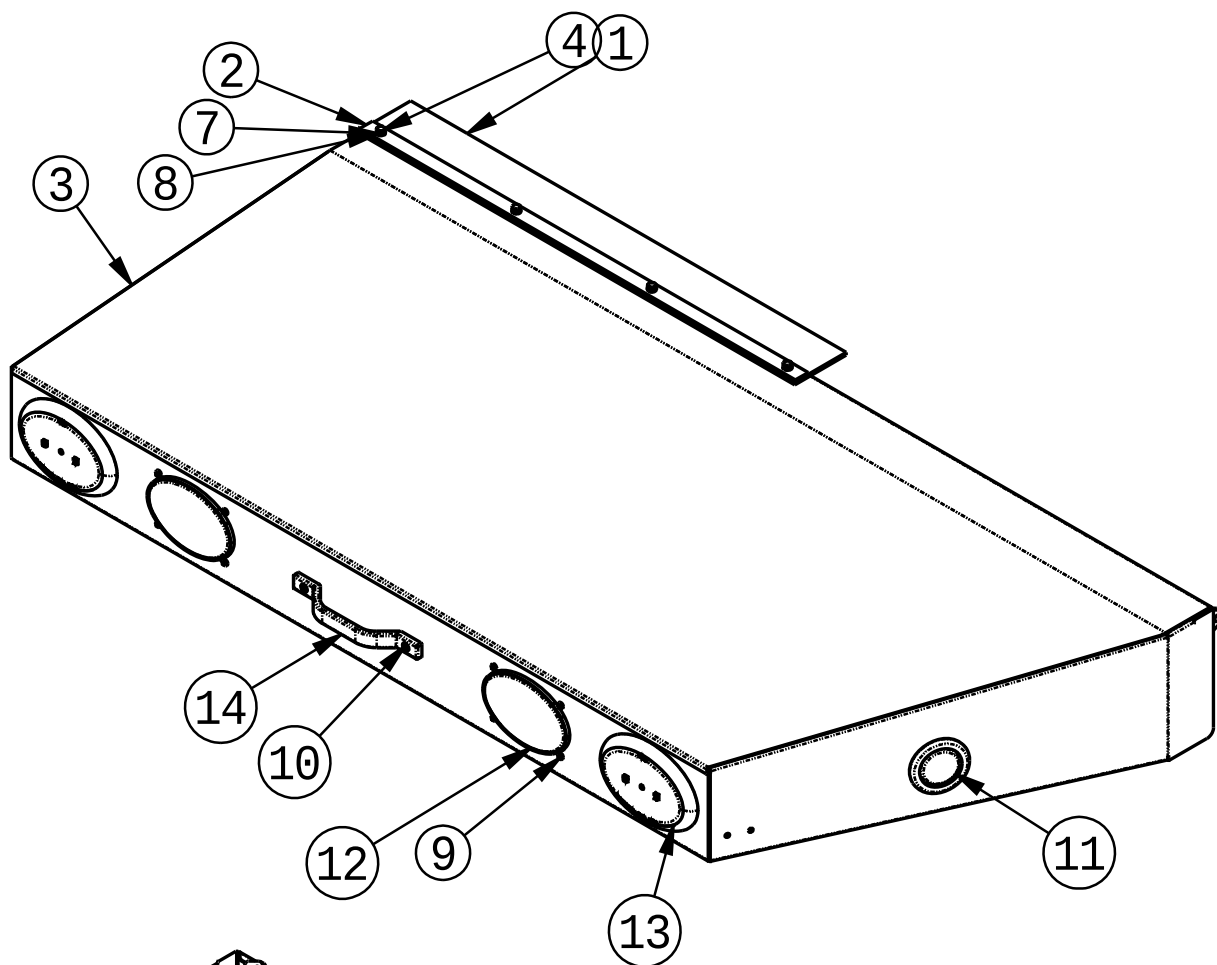
Brouwer 4000 Sod Harvester
Frame Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101156	1	EXTERNAL CHANNEL BASE PLATE SHIM
2	B101157	1	INTERNAL CHANNEL BASE PLATE SHIM
3	B300005	1	MAIN FRAME WELDMENT
4	B300036	1	REAR RH FRAME CHANNEL SUPPORT
5	B300204	1	INTERNAL CHANNEL WELDMENT
6	B300205	1	EXTERNAL CHANNEL WELDMENT
7	F040714	16	BOLT - 7/16 UNC x 1 1/2 Gr 8
8	F040812	10	BOLT - 1/2 UNC X 1 1/4 Gr 8
9	F041012	12	HEX BOLT 5/8 -11 UNC x 1.25 LG. GR 8
10	F210700	16	HEX LOCK NUT - 7/16 UNC
11	F210800	11	NUT-1/2 UNC NYLOC
12	F211000	2	JAM NUT-5/8 UNC NYLOC
13	F221000	2	HEX JAM NUT - 5/8 UNC
14	F310800	10	LOCK WASHER - 1/2
15	F330700	32	7/16 SAE FLAT WASHER
16	F330800	16	1/2 SAE FLAT WASHER
17	F331000	4	FLAT WASHER SAE 5/8 IN.
18	F470816	11	PLOW BOLT - 1/2 x 1.75 LG.
19	KH30053	2	TORQUE HUB 7000 SERIES
20	B300122	1	RAD DOOR WELDMENT
21	KM99014	1	LEVER LATCH - C2
22	KM99077	2	HINGE - METAL LEAF
23	B500291	1	FUEL TANK ASSEMBLY
	KE70053	1	FUEL LEVEL SENDER
24	B500475	1	HYDRAULIC TANK ASSEMBLY - CURRENT FROM S/N 101
	B500005	1	HYDRAULIC TANK ASSEMBLY - NON CURRENT UP TO S/N 100
25	B310054	1	ENGINE MOUNT RH TIER III - CURRENT FROM SERIAL #65
26	B310053	1	ENGINE MOUNT LH TIER III - CURRENT FROM SERIAL #65
27	F040810	8	BOLT 1/2 UNC X 1 GR.8 - CURRENT FROM SERIAL #65
28	F310808	8	LOCK WASHER 1/2 GR.8 - CURRENT FROM SERIAL #65
29	F330808	8	WASHER 1/2 SAE GR.8 - CURRENT FROM SERIAL #65
30	B300012	1	CONVEYOR SUPPORT WELDMENT 16 IN.
	B300082	1	CONVEYOR SUPPORT WELDMENT 24 IN.
31	B500473	1	CYLINDER STOP ASSEMBLY
32	KX30027	1	LYNCH PIN - 3/8 x 2.50
33	KN02142	1	HORN



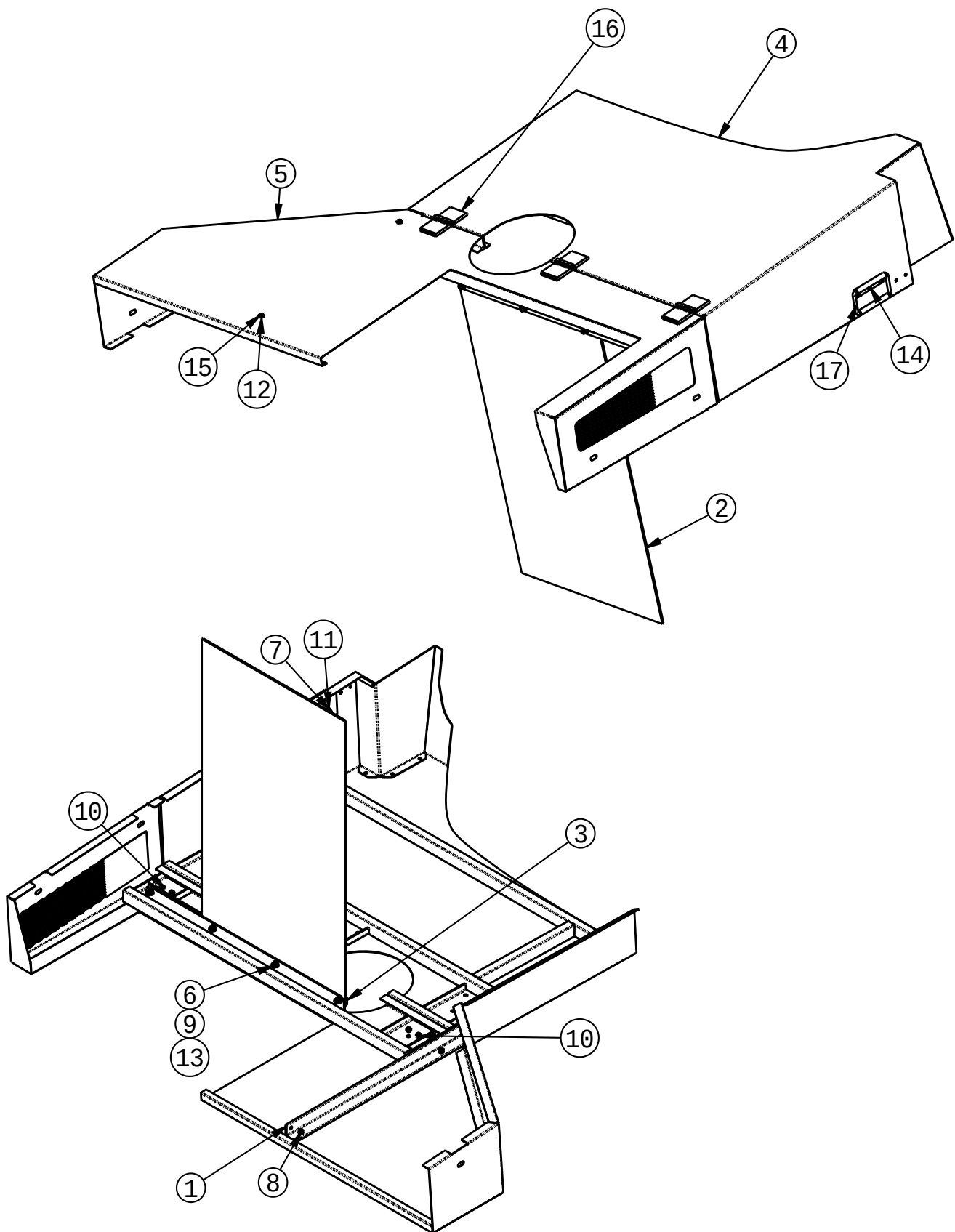
Brouwer 4000 Sod Harvester
Roll Bar Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>401182</u>	6	HANDLE RATCHET
2	<u>B100308</u>	2	DOOR STOP BRACKET
3	<u>B100861</u>	1	REAR HOOD SUPPORT
4	<u>B101154</u>	1	HOOD SUPPORT SPACER
5	<u>B300011</u>	1	ROLL BAR LH WELDMENT
6	<u>B300038</u>	1	CROSS TUBE SUPPORT WELDMENT
7	<u>B300055</u>	1	MIRROR PIVOT POST
8	<u>B300110</u>	1	ROLL CAGE RH WELDMENT
9	<u>B300121</u>	2	STROBE BASE WELDMENT
10	<u>B300185</u>	1	RH MIRROR EXTENSION
11	<u>B500029</u>	1	LH MIRROR BRACKET ASSEMBLY
12	<u>B500139</u>	2	STROBE LIGHT ASSEMBLY
13	<u>B500142</u>	2	STROBE LIGHT EXTENSION CABLE
14	<u>F020622</u>	3	CARRIAGE BOLT - 3/8-16 UNC x 2.25 LG.
15	<u>F040510</u>	8	BOLT - 5/16 UNC x 1.0 Gr 8
16	<u>F040610</u>	1	BOLT - 3/8 UNC x 1.0 Gr 8
17	<u>F040612</u>	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
18	<u>F040614</u>	1	HEX HD BOLT - 3/8-16 UNC x 1.50 GR 8
19	<u>F040812</u>	2	BOLT - 1/2 UNC X 1 1/4 Gr 8
20	<u>F210500</u>	8	NUT-5/16 UNC NYLOC
21	<u>F210600</u>	5	HEX LOCK NUT - 3/8 -16 UNC
22	<u>F230600</u>	2	NUT - 3/8-16
23	<u>F310600</u>	3	LOCK WASHER - 3/8
24	<u>F310800</u>	2	LOCK WASHER - 1/2
25	<u>F330500</u>	16	5/16 SAE WASHER
26	<u>F330600</u>	13	FLAT WASHER SAE 3/8
27	<u>F330800</u>	2	1/2 SAE FLAT WASHER
28	<u>KM40010</u>	2	SIDE MIRROR
29	<u>KM99069</u>	3	HAND KNOB W/ 3/8-16 THREAD
30	<u>KS60006</u>	2	RUBBER BUMPER



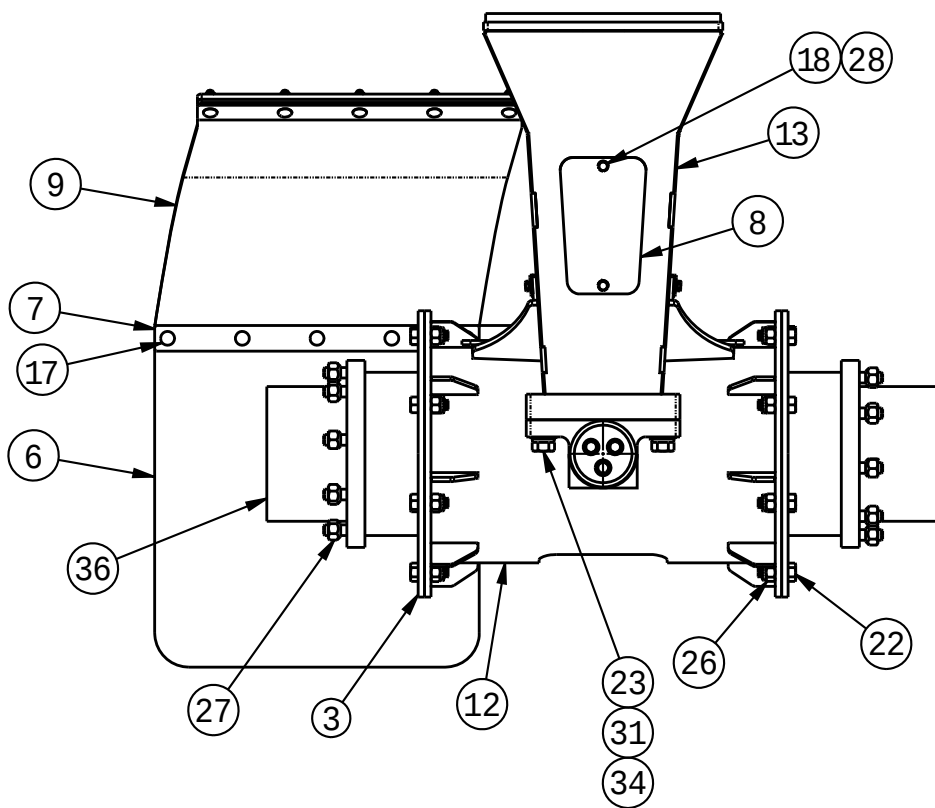
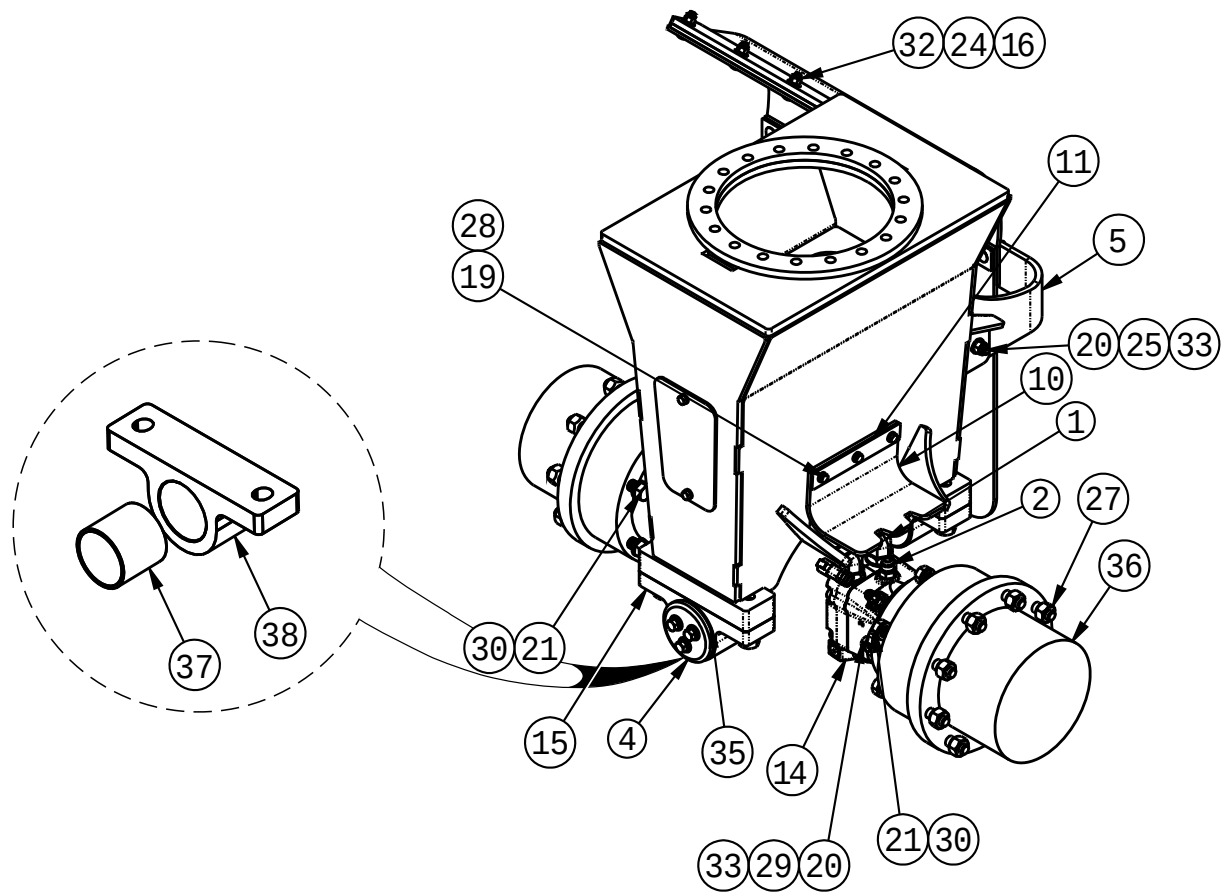
Brouwer 4000 Sod Harvester
Front Hood Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100568	1	HOOD JOINER
2	B100626	1	RUBBER HOOD JOINER CLAMP BAR
3	B300041	1	FRONT HOOD COVER
4	F040406	4	BOLT 1/4 UNC x 3/4 Gr 8
5	F210200	8	HEX LOCK NUT - 10-24 UNC
6	F210400	2	1/4-20 UNC NYLOC NUT
7	F310400	4	WASHER - 1/4 LOCK
8	F330400	6	1/4 SAE FLAT WASHER
9	F540210	8	PAN HD PHIL 10-24 x 1.00 LG.
10	F580406	2	PAN HD PHIL - 1/4 UNC x 0.75 LG. ST. STL.
11	KE90023	2	CLEARANCE LIGHT LED KIT
12	KE90024	2	HEAD LIGHT
13	KE90026	2	TURN SIGNAL
14	KM99011	1	GRAB HANDLE



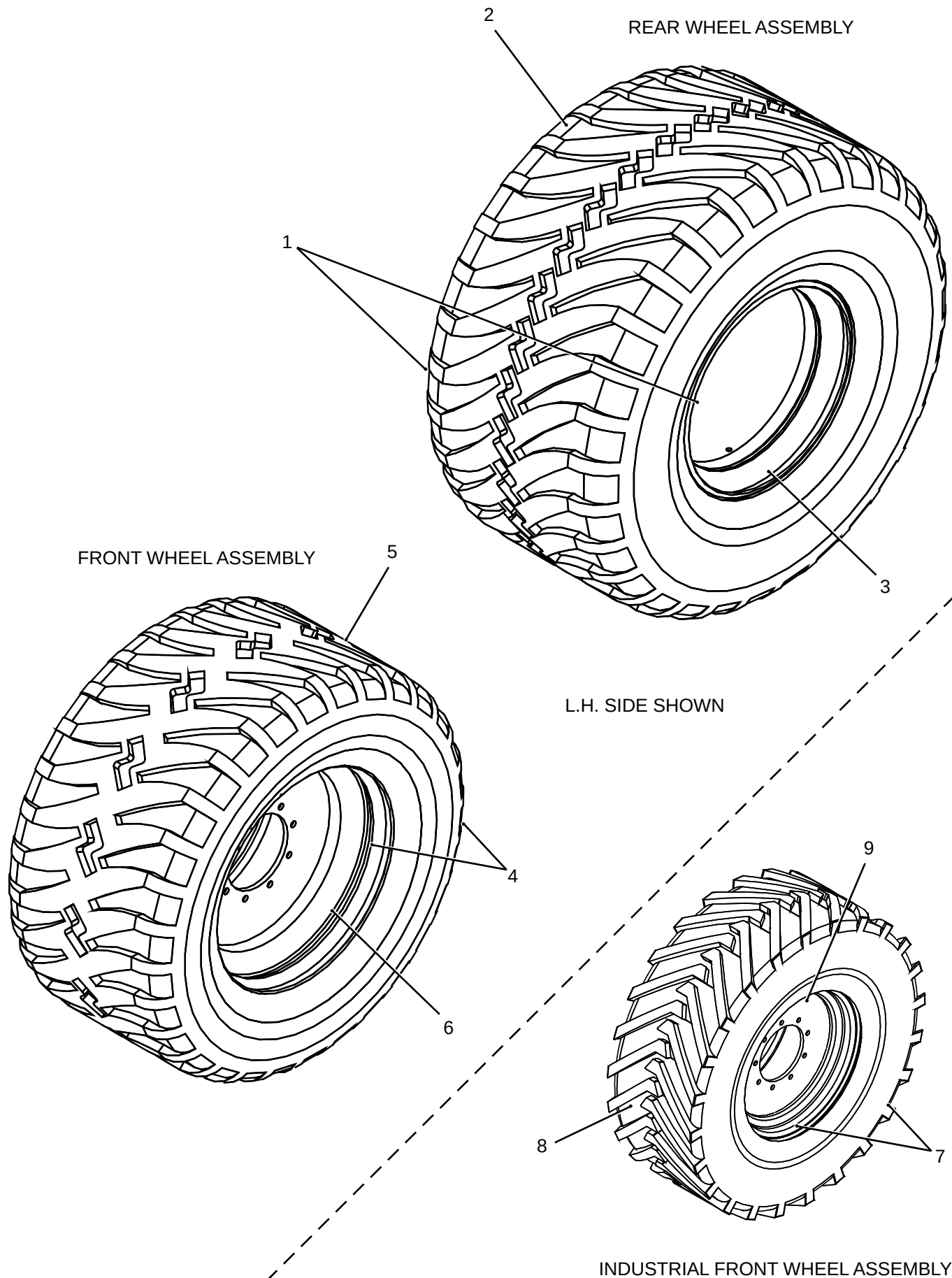
Brouwer 4000 Sod Harvester
Rear Hood Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100536	1	HOOD SUPPORT ANGLE
2	B101214	1	REAR COOLER RUBBER
3	B101215	1	REAR RUBBER MOUNT
4	B300061	1	REAR HOOD WELDMENT
5	B300198	1	CENTRE HOOD WELDMENT
6	F040510	4	BOLT - 5/16 UNC x 1.0 Gr 8
7	F210200	3	HEX LOCK NUT - 10-24 UNC
8	F210400	2	1/4-20 UNC NYLOC NUT
9	F210500	4	NUT-5/16 UNC NYLOC
10	F220500	12	NUT - 5/16 UNC JAM
11	F320200	3	WASHER - #10
12	F330400	4	1/4 SAE FLAT WASHER
13	F330500	8	5/16 SAE WASHER
14	F540206	3	BOLT - 10 UNC x 3/4 PAN HD PHIL
15	F580406	2	PAN HD PHIL - 1/4 UNC x 0.75 LG. ST. STL.
16	KM99077	3	HINGE - METAL LEAF
17	KM99086	1	CHEST HANDLE



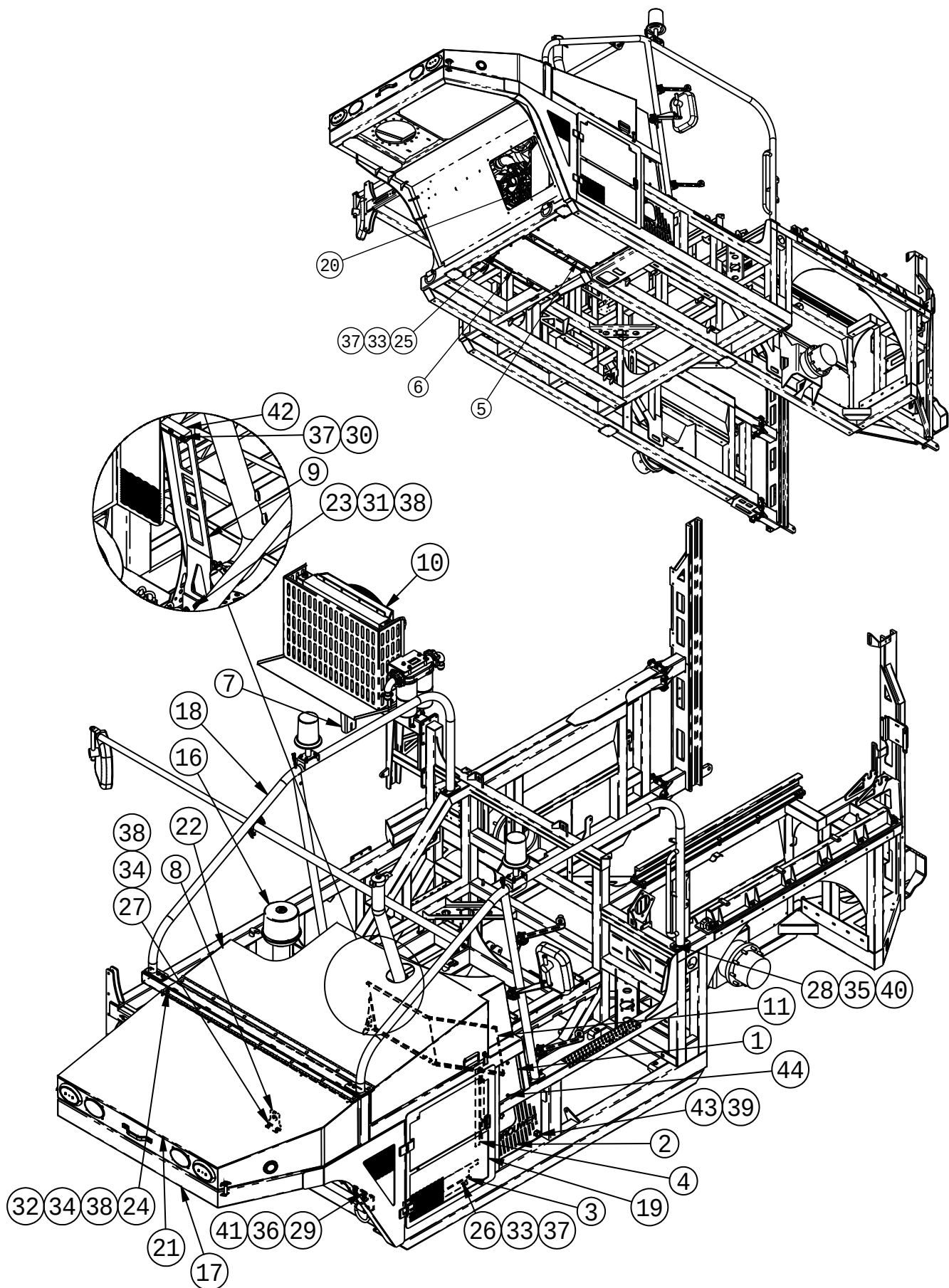
Brouwer 4000 Sod Harvester
Front Pedestal Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	12-12-520320	4	FITTING SAE ORFS MALE x SAE ORB MALE 45° ELBOW
2	8-8-070120	2	FITTING - STR THRD CONNECTOR 37° FLARE SAE ORB
3	B100003	2	TORQUE HUB CONNECTOR RING
4	B100109	2	END CAP FRONT PIVOT
5	B100548	1	FRONT RH MUD FLAP MOUNTING BAR
6	B100550	1	FRONT RH MUD FLAP
7	B100589	2	FRONT MUD FLAP CLAMP BAR
8	B100713	1	FRONT PEDESTAL COVER PLATE
9	B100951	1	FRONT RH FENDER
10	B101191	2	FRONT PEDESTAL RUBBER FLAP
11	B101192	2	PEDESTAL RUBBER FLAP BAR
12	B300003	1	FRONT AXLE WELDMENT
13	B300004	1	STEERING PEDESTAL WELDMENT
14	KH30054	2	WHEEL MOTOR
15	B500003	2	FRONT AXLE PIVOT BUSHING ASSEMBLY
16	F020614	5	CARRIAGE BOLT 3/8-16 x 1.50 LG.
17	F020616	5	CARRIAGE BOLT 3/8-16 x 1.75 LG.
18	F040504	2	5/16-18 X 1/2 LG HEX BOLT
19	F040506	6	BOLT - 5/16 UNC x 3/4 Gr 8
20	F040714	12	BOLT - 7/16 UNC x 1 1/2 Gr 8
21	F041014	12	BOLT - 5/8 UNC X 1 1/2 Gr 8
22	F041016	16	BOLT - 5/8 UNC X 1 3/4 Gr 8
23	F041224	4	HEX BOLT - 3/4 UNC X 2-1/2 LG GR. 8
24	F210600	10	HEX LOCK NUT - 3/8 -16 UNC
25	F210700	2	HEX LOCK NUT - 7/16 UNC
26	F211000	16	NUT-5/8 UNC NYLOC
27	F261000	18	WHEEL NUT - 5/8 UNF
28	F310500	8	LOCK WASHER - 5/16
29	F310700	10	LOCK WASHER - 7/16
30	F311000	12	LOCK WASHER - 5/8
31	F311200	4	LOCK WASHER - 3/4
32	F330600	10	FLAT WASHER SAE 3/8
33	F330700	14	7/16 SAE FLAT WASHER
34	F331200	4	SAE FLAT WASHER - 3/4"
35	KB12851	4	THRUST WASHER 2.50 I.D. x 3.75 O.D. x 0.070 THK.
36	KH30053	2	TORQUE HUB 7000 SERIES
37	KB12850	2	BUSHING 2.50 I.D. x 2.75 O.D. 2.50 LG.
38	B100133	2	BUSHING BLOCK FRONT PIVOT



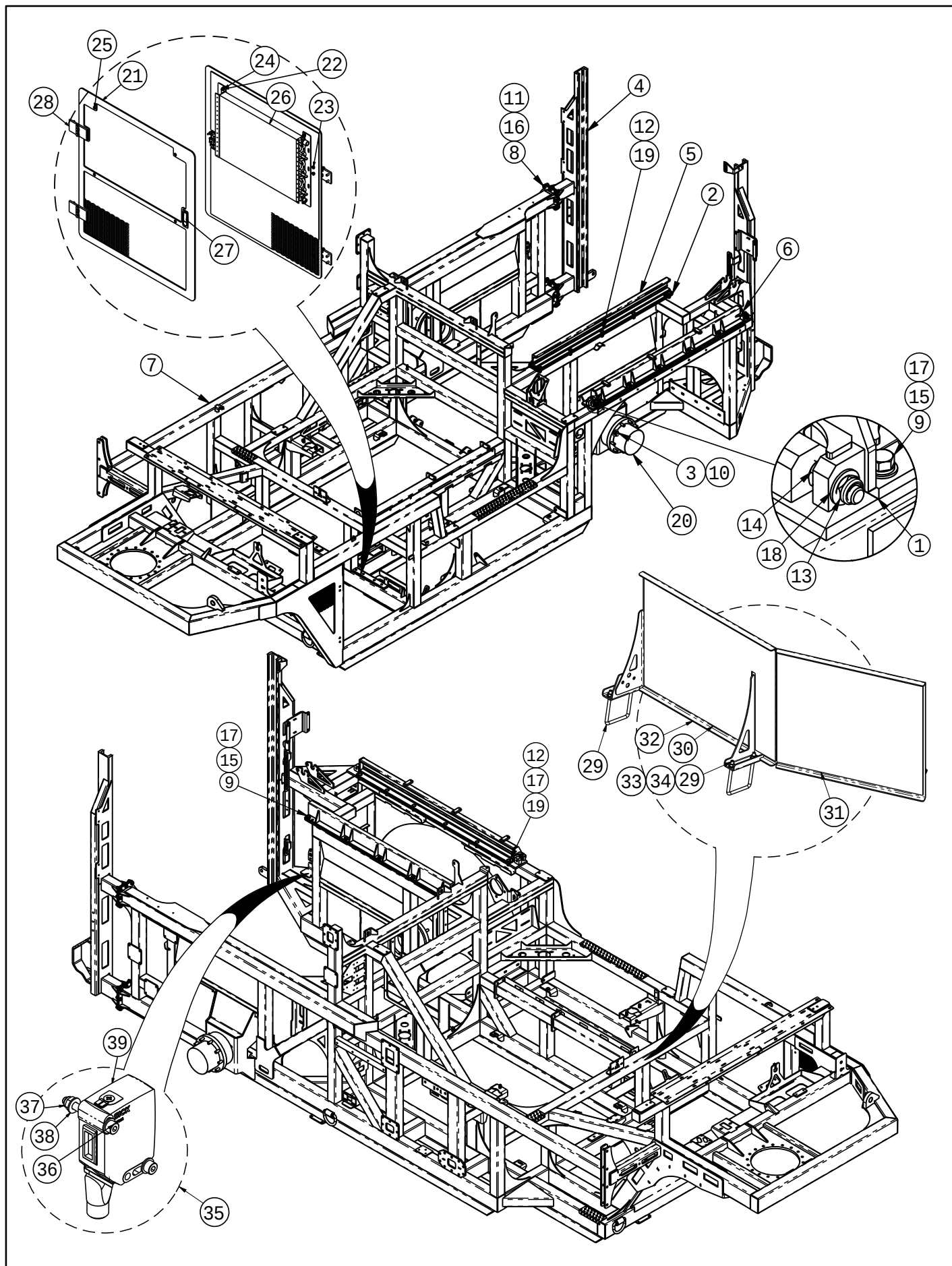
Brouwer 4000 Sod Harvester
Tires

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B500001	2	REAR WHEEL ASSEMBLY
2	KW52038	2	REAR TIRE - I-380 650/50R-22.5
3	B300001	2	REAR RIM WELDMENT
4	B500002	2	FRONT WHEEL ASSEMBLY
5	KW52039	2	FRONT TIRE - I-380 550/45R 22.5
6	B300002	2	FRONT WHEEL RIM
7	B500098	1	FRONT INDUSTRIAL WHEEL ASSEMBLY LH
	B500099	1	FRONT INDUSTRIAL WHEEL ASSEMBLY RH
8	KW52043	2	MICHELIN XMCL 380/75xR20
9	B300088	2	INDUSTRIAL FRONT WHEEL



Brouwer 4000 Sod Harvester
Tier IV Engine Related Components

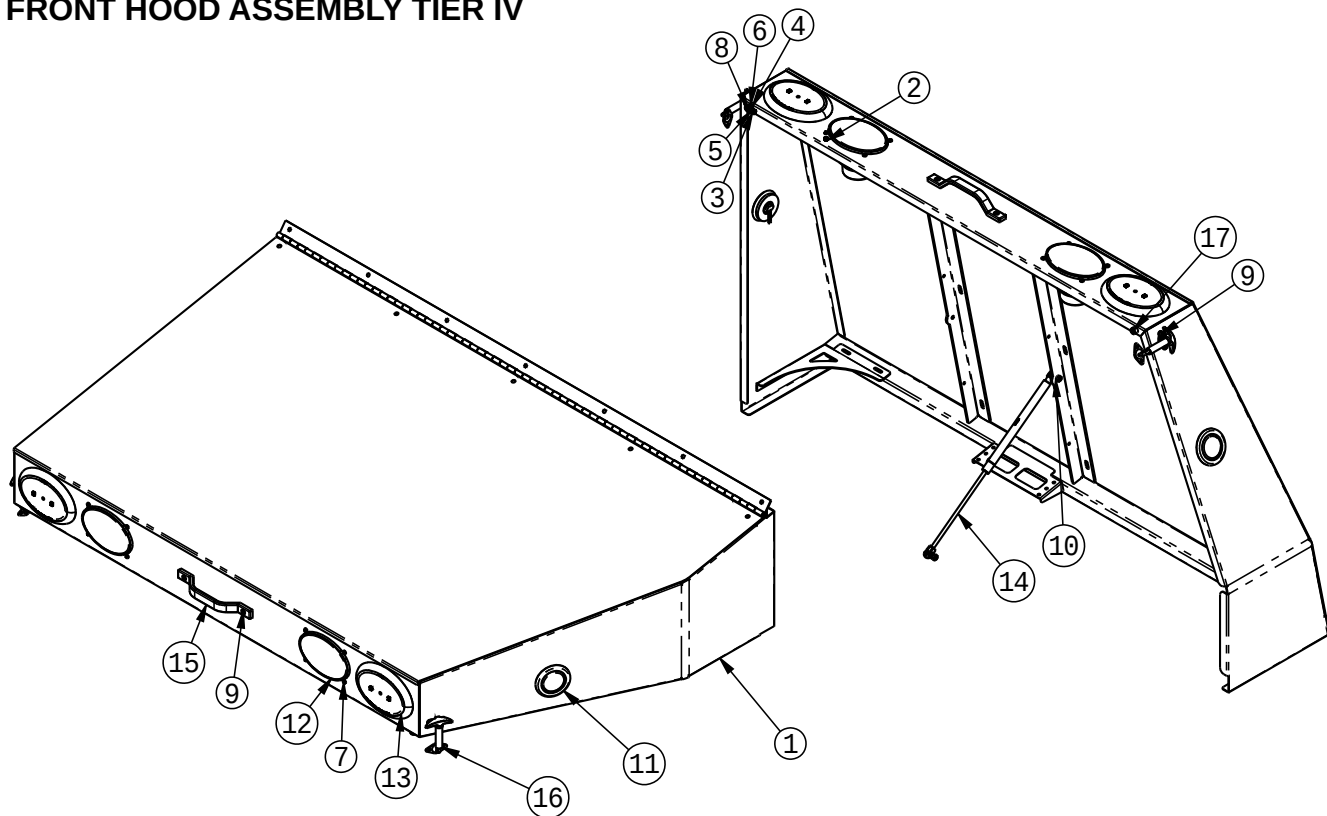
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B101682</u>	1	UPPER LH COVER
2	<u>B101686</u>	1	DEF TANK COVER PLATE
3	<u>B101687</u>	1	LOWER ENGINE SEALING ANGLE TIER IV
4	<u>B101688</u>	1	REAR ENGINE SEALING ANGLE TIER IV
5	<u>B101703</u>	1	BELLY PANEL LH TIER IV
6	<u>B101704</u>	1	BELLY PANEL RH TIER IV
7	<u>B300069</u>	1	FRONT INDEX CONVEYOR SUPPORT 24 IN.
	<u>B300039</u>	1	FRONT INDEX CONVEYOR SUPPORT 16 IN.
8	<u>B300289</u>	1	BATTERY HOLD DOWN BRACKET
9	<u>B310103</u>	1	REAR HOOD SUPPORT WELDMENT
10	<u>B500329</u>	1	TIER IV COOLER & FILTER ASSEMBLY (SEE PG. 7-21)
11	<u>B500334</u>	1	HEAT SHIELD PANEL ASSEMBLY TIER IV (SEE PG. 7-15)
12	<u>B500405</u>	1	STARTER BATTERY CABLE TIER IV 4000 (NOT SHOWN)
13	<u>B500406</u>	1	BATTERY GROUND CABLE TIER IV 4000 (NOT SHOWN)
14	<u>B500407</u>	1	GROUND CABLE SHUT-OFF SWITCH-GROUND POST TIER IV 4000 (NOT SHOWN)
15	<u>B500408</u>	1	GROUND CABLE STARTER TO GROUND POST TIER IV 4000 (NOT SHOWN)
16	<u>B500462</u>	1	CAT 4.4 TIER IV ENGINE SUB-ASSEMBLY (SEE PG. 7-19)
18	<u>B510025</u>	1	ROLL BAR ASSEMBLY TIER IV (SEE PG. 7-21)
19	<u>B510031</u>	1	RADIATOR DOOR ASSEMBLY TIER IV (SEE PG. 7-15)
20	<u>KD40084</u>	1	A/C COMPRESSOR
21	<u>B510037</u>	1	FRONT HOOD ASSEMBLY TIER IV (SEE PG. 7-17)
22	<u>B510046</u>	1	REAR HOOD ASSEMBLY (SEE PG. 7-17)
23	<u>F020510</u>	3	5/16-18 X 1 LG CARRAGE BOLT
24	<u>F020510S</u>	14	CARRIAGE BOLT 5/16-18 x 1.00 LG. ST STL
25	<u>F040404</u>	11	BOLT- HEX HD 1/4 UNC x 0.50 LG. GR 8
26	<u>F040406</u>	4	BOLT 1/4 UNC x 3/4 Gr 8
27	<u>F040504</u>	2	5/16-18 X 1/2 LG HEX BOLT
28	<u>F040706</u>	12	BOLT - 7/16 UNC x 3/4 Gr 8
29	<u>F040810</u>	8	BOLT - 1/2 UNC X 1.0 Gr 8
30	<u>F210400</u>	2	1/4-20 UNC NYLOC NUT
31	<u>F210500</u>	3	NUT-5/16 UNC NYLOC
32	<u>F230500</u>	14	HEX NUT - 5/16-18 UNC
33	<u>F310400</u>	15	WASHER - 1/4 LOCK
34	<u>F310500</u>	16	LOCK WASHER - 5/16
35	<u>F310708</u>	12	LOCK WASHER - 7/16 GR.8
36	<u>F310808</u>	8	LOCK WASHER - 1/2 Gr 8
37	<u>F330400</u>	17	1/4 SAE FLAT WASHER
38	<u>F330500</u>	19	5/16 SAE WASHER
39	<u>F330608</u>	2	WASHER - 3/8 SAE Gr 8
40	<u>F330708</u>	12	7/16 SAE FLAT WASHER Gr 8
41	<u>F330808</u>	8	WASHER-1/2 SAE GR 8
42	<u>H101484</u>	1	ROLL-UP BUMPER PAD
43	<u>KM99076</u>	2	SOFT TOUCH KNOB W/ 3/8 MALE STUD
44	<u>KX50108</u>	2	THUMB SCREW 10-24



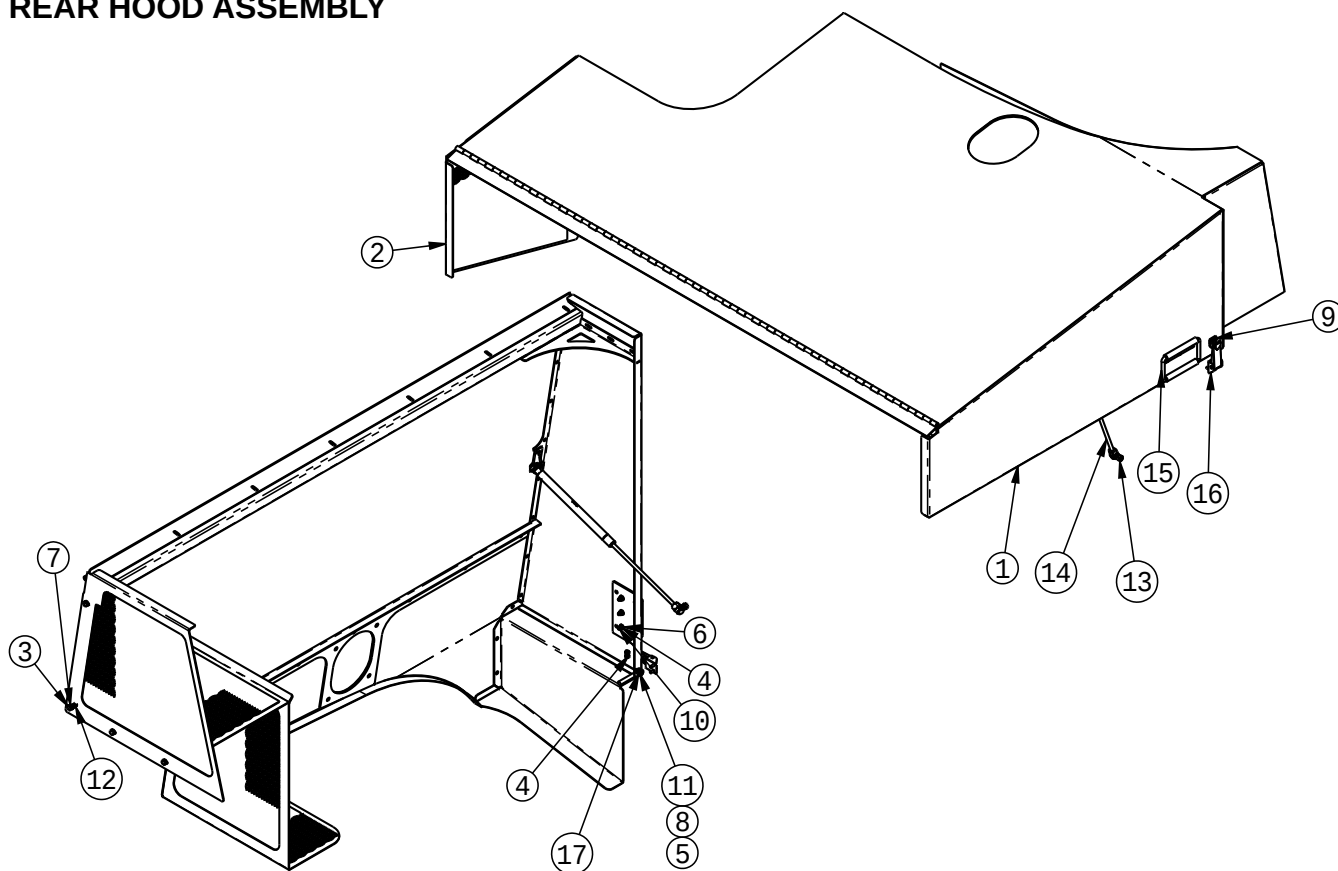
Brouwer 4000 Sod Harvester
Tier IV Frame Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101156	1	EXTERNAL CHANNEL BASE PLATE SHIM
2	B101157	1	INTERNAL CHANNEL BASE PLATE SHIM
3	B101550	12	WASHER - 5/8 TORQUE HUB
4	B300036	1	REAR RH FRAME CHANNEL SUPPORT
5	B300204	1	INTERNAL CHANNEL WELDMENT
6	B300205	1	EXTERNAL CHANNEL WELDMENT
7	B300285	1	TIER IV MAIN FRAME WELDMENT
8	F040714	16	BOLT - 7/16 UNC x 1 1/2 Gr 8
9	F040812	10	BOLT - 1/2 UNC X 1 1/4 Gr 8
10	F041012	12	HEX BOLT 5/8 -11 UNC x 1.25 LG. GR 8
11	F210700	16	HEX LOCK NUT - 7/16 UNC
12	F210800	11	NUT-1/2 UNC NYLOC
13	F211000	2	JAM NUT-5/8 UNC NYLOC
14	F221000	2	HEX JAM NUT - 5/8 UNC
15	F310800	10	LOCK WASHER - 1/2
16	F330700	32	7/16 SAE FLAT WASHER
17	F330800	16	1/2 SAE FLAT WASHER
18	F331000	4	FLAT WASHER SAE 5/8 IN.
19	F470816	11	PLOW BOLT - 1/2 x 1.75 LG.
20	KH30053	2	TORQUE HUB 7000 SERIES
21	B310072	1	RAD DOOR WELDMENT TIER IV
22	F210400	4	1/4-20 UNC NYLOC NUT
23	F220500	4	NUT - 5/16 UNC JAM
24	F330400	4	4 1/4 SAE FLAT WASHER
25	F550410	4	BOLT-1/4 UNC X 1 FLAT HD PHIL ST STL
26	KD40092	1	CONDENSER - TIER IV CAT ENGINE
27	KM99014	1	LEVER LATCH - C2
28	KM99077	2	HINGE - METAL LEAF
29	B101611	2	U-BOLT - 5/16 X 3.00
30	B101694	1	HEAT SHIELD TIER IV
31	B101699	1	OUTSIDE HEAT SHIELD TIER IV
32	B300295	1	HEAT SHIELD PANEL TIER IV W/A
33	F230500	4	HEX NUT - 5/16-18 UNC
34	F330500	4	5/16 SAE WASHER
35	B500469	1	DIFFUSE SENSOR W16 SERVICE KIT
36	G1804035	2	BOLT - HEX SOCKET M4 - 0.7 x 35 MM LG.
37	G270400	2	HEX NUT NYLOC JAM M4-0.7
38	G330400	4	WASHER - M4 TYPE A
39	KE10389	1	DIFFUSE SENSOR W16

FRONT HOOD ASSEMBLY TIER IV



REAR HOOD ASSEMBLY



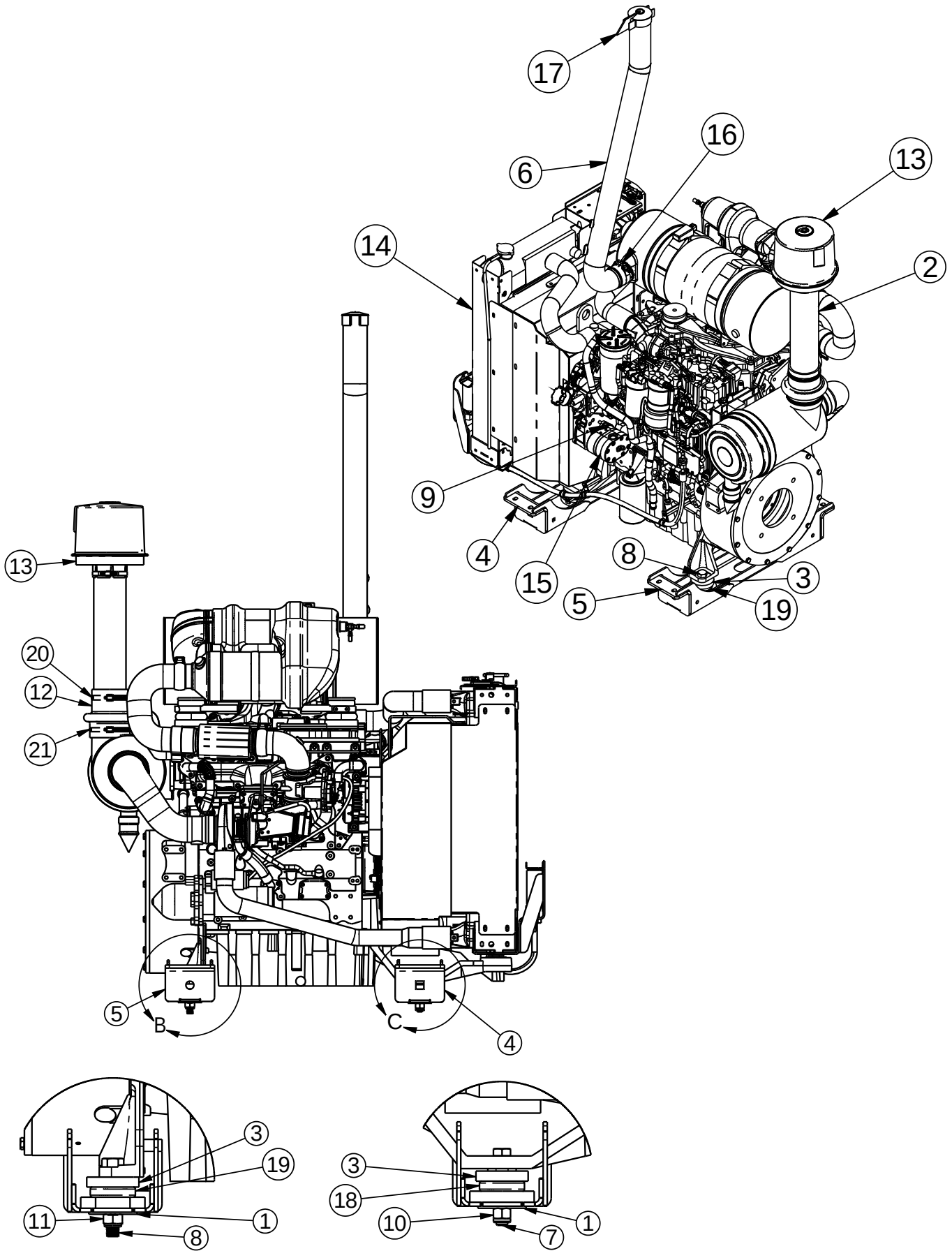
Brouwer 4000 Sod Harvester
Tier IV Front & Rear Hood Assembly

B510037 - Front Hood Assembly Tier IV

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B310079</u>	1	FRONT HOOD TIER IV
2	<u>F210200</u>	8	HEX LOCK NUT - 10-24 UNC
3	<u>F210400</u>	6	1/4-20 UNC NYLOC NUT
4	<u>F280100</u>	2	NUT 8-32 UNC NYLON LOCK ST. STL
5	<u>F330400</u>	6	1/4 SAE FLAT WASHER
6	<u>F350100</u>	2	FLAT WASHER - #8 ST STL
7	<u>F540210</u>	8	PAN HD PHIL 10-24 x 1.00 LG.
8	<u>F570104</u>	2	PAN HD PHIL 8-32 X 0.50 LG. ST STL
9	<u>F580406</u>	6	PAN HD PHIL - 1/4 UNC x 0.75 LG. ST. STL.
10	<u>G230800</u>	2	NUT - M08 x 1.25
11	<u>KE90023</u>	2	CLEARANCE LIGHT LED KIT
12	<u>KE90024</u>	2	HEAD LIGHT
13	<u>KE90026</u>	2	TURN SIGNAL
14	<u>KM00017</u>	1	4000 FRONT HOOD STRUT
15	<u>KM99011</u>	1	GRAB HANDLE
16	<u>KM99015</u>	2	LATCH - BLACK ENAMEL ELBOW STYLE DRAW
17	<u>KS60005</u>	2	RUBBER BUMPER RECESSED 5/8 DIA.

B510046 - Rear Hood Assembly

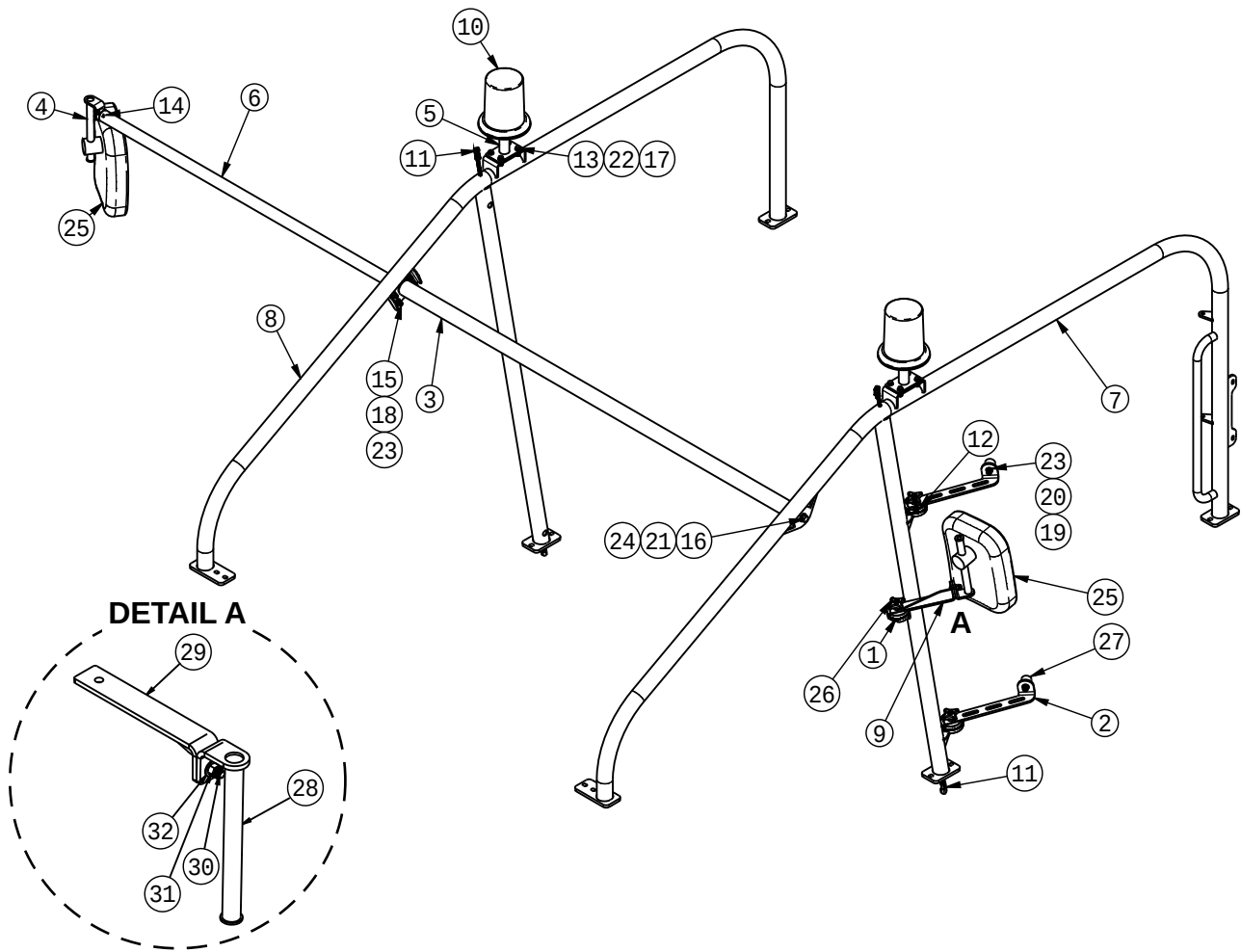
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	<u>B310102</u>	1	REAR HOOD TIER IV
2	<u>B310110</u>	1	REAR HOOD RH PANEL
3	<u>F040406</u>	4	BOLT 1/4 UNC x 3/4 Gr 8
4	<u>F210200</u>	5	HEX LOCK NUT - 10-24 UNC
5	<u>F280100</u>	1	NUT 8-32 UNC NYLON LOCK ST. STL
6	<u>F320200</u>	3	WASHER - #10
7	<u>F330400</u>	4	1/4 SAE FLAT WASHER
8	<u>F350100</u>	1	FLAT WASHER - #8 ST STL
9	<u>F540204</u>	4	PAN HD PHIL 10-24 x 0.50 LG.
10	<u>F540206</u>	3	BOLT - 10 UNC x 3/4 PAN HD PHIL
11	<u>F570104</u>	1	PAN HD PHIL 8-32 X 0.50 LG. ST STL
12	<u>F850400</u>	4	RIVET NUT - 1/4 UNC (25/64 DRILL)
13	<u>G230800</u>	2	NUT - M08 x 1.25
14	<u>KM00017</u>	1	4000 FRONT HOOD STRUT
15	<u>KM99086</u>	1	CHEST HANDLE
16	<u>KM99098</u>	1	ADJUSTABLE DRAW LATCH 4.25 LG.
17	<u>KS60005</u>	1	RUBBER BUMPER RECESSED 5/8 DIA.



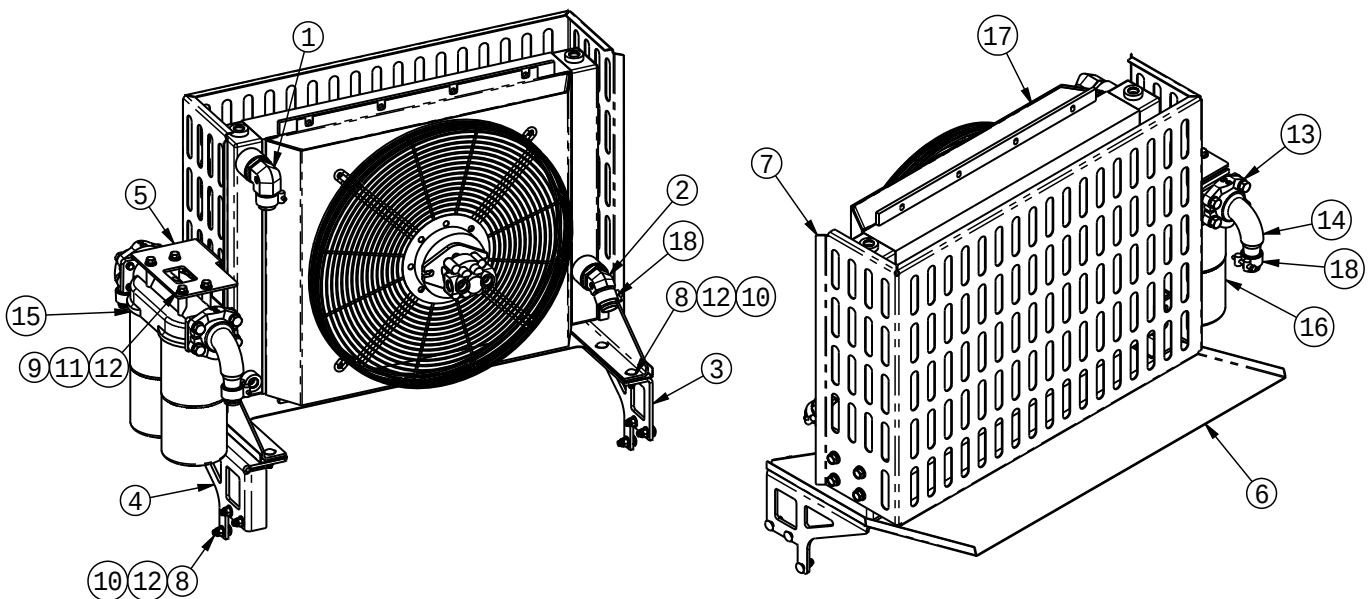
Brouwer 4000 Sod Harvester
Cat 4.4 Tier IV Engine Sub-Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B100046	4	ENGINE MOUNT LOWER WASHER
2	B100761	1	AIR INTAKE PIPE
3	B101170	4	ENGINE MOUNT UPPER WASHER 5/8
4	B310051	1	ENGINE MOUNT LH TIER IV
5	B310052	1	ENGINE MOUNT RH TIER IV
6	B310073	1	EXHAUST STACK WELDMENT
7	G0418110	2	BOLT M18 -2.5 x 110.0 LG. GR 10.9
8	G0420110	2	HEX BOLT M20 x 2.5 x 110 GR 10.9
9	G1810030	2	SOCKET HEAD M10- 1.5 x 30.0 mm LG.
10	G211800	2	NYLOC NUT - M18 -2.5
11	G212000	2	NYLOC NUT - M20 X 2.5
12	KD40055	1	HUMP REDUCER 4.50 - 4.00
13	KD40064	1	TOP SPIN PRE-CLEANER (REF: COMES WITH KD40087)
14	KD40087	1	CAT ENGINE C4.4 TIER 4F - 147 HP
15	KH30083	1	STEERING GEAR PUMP 13 TOOTH A PAD
16	KM60050	1	EXHAUST CLAMP 3.00
17	KM60051	1	EXHAUST CAP 3.00
18	KM71011	2	ENGINE MOUNT
19	KM71014	2	ENGINE MOUNT - TIER IV RH
20	KU03026	1	HOSE CLAMP - GEAR CLAMP SIZE 064
21	KU03027	1	HOSE CLAMP - GEAR CLAMP SIZE 072

ROLL BAR ASSEMBLY TIER IV



TIER IV COOLER & FILTER ASSEMBLY



Brouwer 4000 Sod Harvester
Tier IV Roll Bar, Cooler & Filter Assembly

B510025 - Roll Bar Assembly Tier IV

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	401182	6	HANDLE RATCHET
2	B100308	2	DOOR STOP BRACKET
3	B300038	1	CROSS TUBE SUPPORT WELDMENT
4	B300055	1	MIRROR PIVOT POST
5	B300121	2	STROBE BASE WELDMENT
6	B300185	1	RH MIRROR EXTENSION
7	B310061	1	ROLL BAR LH WELDMENT
8	B310062	1	ROLL CAGE RH WELDMENT
9	B500029	1	LH MIRROR BRACKET ASSEMBLY
10	B500139	2	STROBE LIGHT ASSEMBLY
11	B500142	2	STROBE LIGHT EXTENSION CABLE
12	F020622	3	CARRIAGE BOLT - 3/8-16 UNC x 2.25 LG.
13	F040510	8	HEX BOLT - 5/16 - 18 UNC x 1.0 LG. GR. 8
14	F040610	1	BOLT - 3/8 UNC x 1.0 Gr 8
15	F040612	4	BOLT - 3/8 UNC x 1 1/4 Gr 8
16	F040812	2	BOLT - 1/2 UNC X 1 1/4 Gr 8
17	F210500	8	NUT-5/16 UNC NYLOC
18	F210600	4	HEX LOCK NUT - 3/8 -16 UNC
19	F230600	2	NUT - 3/8-16
20	F310600	3	LOCK WASHER - 3/8
21	F310800	2	LOCK WASHER - 1/2
22	F330500	16	5/16 SAE WASHER
23	F330600	11	FLAT WASHER SAE 3/8
24	F330800	2	1/2 SAE FLAT WASHER
25	KM40010	2	SIDE MIRROR
26	KM99069	3	HAND KNOB W/ 3/8-16 THREAD
27	KS60006	2	RUBBER BUMPER
28	B300055	1	MIRROR PIVOT POST
29	B300067	1	MIRROR MOUNTING BRACKET
30	F020612	1	CARRIAGE BOLT - 3/8 UNC x 1 1/4
31	F210600	1	HEX LOCK NUT - 3/8 -16 UNC
32	F330600	1	FLAT WASHER SAE 3/8

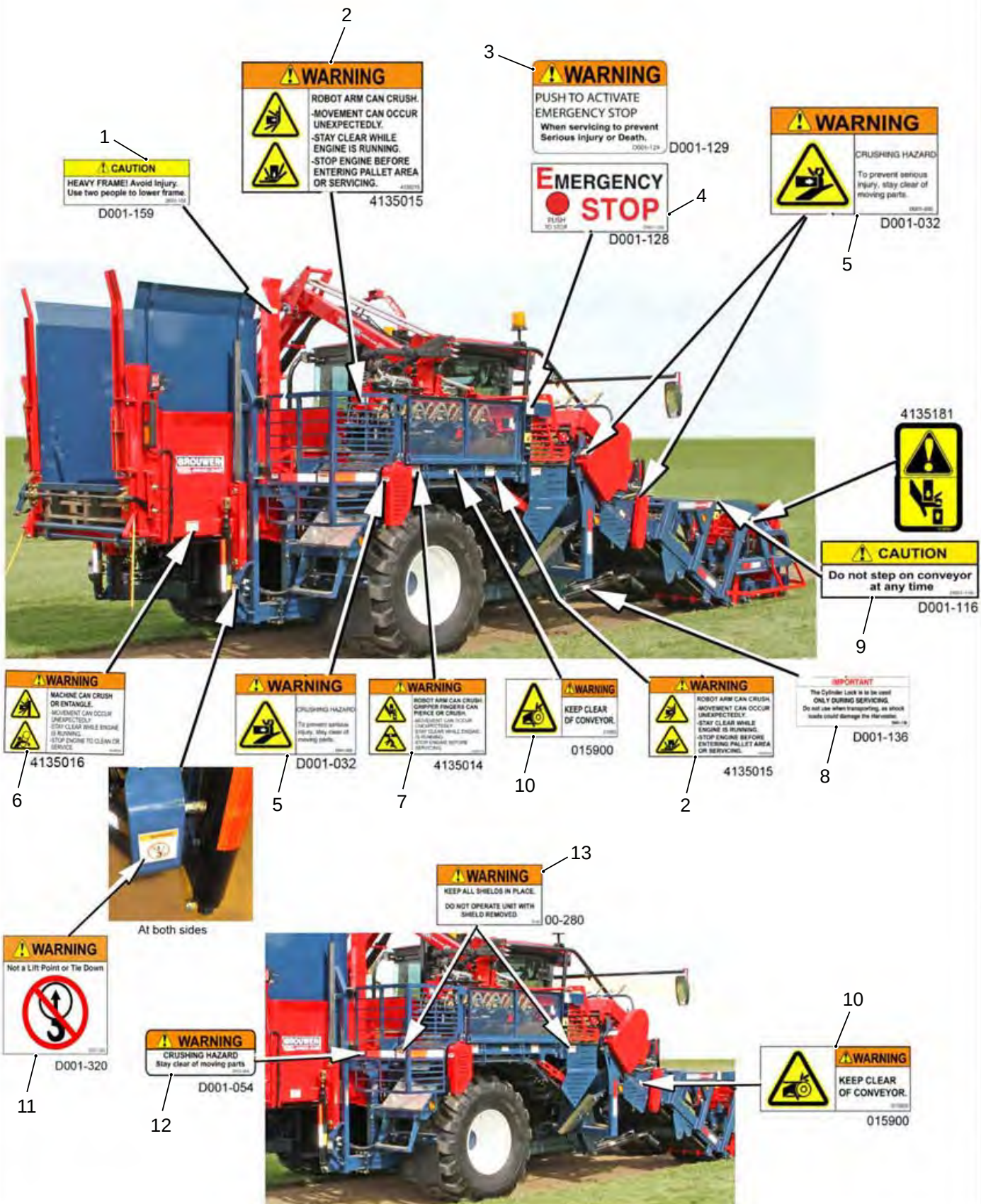
B500329 - Tier IV Cooler & Filter Assembly

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	20-20-430292	1	FITTING 1 1/4 X 1 1/4 - BEADED TUBE HOSE END 90°
2	20-20-430392	1	FITTING 1 1/4 X 1 1/4 - BEADED TUBE HOSE END 45°
3	B101668	1	COOLER BRACKET RH
4	B101669	1	COOLER BRACKET LH
5	B101670	1	COOLER RETURN FILTER BRACKET
6	B101675	1	COOLER SHROUD
7	B101689	1	COOLER GUARD
8	F020612	10	CARRIAGE BOLT - 3/8 UNC x 1 1/4
9	F040610	4	BOLT - 3/8 UNC x 1.0 Gr 8
10	F210600	10	HEX LOCK NUT - 3/8 -16 UNC
11	F310600	4	LOCK WASHER - 3/8
12	F330600	14	FLAT WASHER SAE 3/8
13	KH00133	2	SPLIT FLANGE CODE 61 - 2.00
14	KH00328	2	FITTING - 90° 1.25 HOSE BARB x 2.00 SPLIT FLANGE - CODE 61
15	KH40080	1	FILTER HEAD
16	KH40082	2	FILTER ELEMENT
17	KH40104	1	HYDRAULIC COOLER BOL-725
18	KM60015	4	CLAMP MAG 40-43

SECTION 8 DECALS

Safety Decals

8-01



ITEM NO.	PART NO.	DESCRIPTION	QTY
		BROUWER 4000 - SAFETY DECALS	
1	<u>D001-159</u>	Decal - "Caution - HEAVY FRAME..."	1
2	<u>4135015</u>	Decal - "Warning - Robot Arm Can Crush..."	2
3	<u>D001-129</u>	Decal - "Warning - Push to Activate..."	1
4	<u>D001-128</u>	Decal - Emergency Stop Button	1
5	<u>D001-032</u>	Decal - "Warning - Crushing Hazard..."	2
6	<u>4135016</u>	Decal - "Warning - Machine Can Crush..."	1
7	<u>4135014</u>	Decal - "Warning - Robot Arm Can Crush..."	1
8	<u>D001-136</u>	Decal - "Important - The Cylinder Lock is to be used..."	1
9	<u>D001-116</u>	Decal - "Caution - Do not step on Conveyor..."	1
10	<u>015900</u>	Decal - "Warning" Keep Clear of Conveyor	2
11	<u>D001-320</u>	Decal - "Warning" Not a Lift Point..."	2
12	<u>D001-054</u>	Decal - "Warning" Crushing Hazard..."	1
13	<u>00-280</u>	Decal - "Warning" Keep All Shields in Place..."	2



Right Hand side of frame.

WARNING

HIGH PRESSURE FLUID HAZARD
To prevent serious personal injury:
Visually check daily all hydraulic lines, fittings, connections and hoses for leaks.
DO NOT check for leaks with your bare hands. High pressure oil can penetrate the skin causing serious personal injury. Use cardboard.
Relieve pressure in the hydraulic system before doing any service or repair work.
Protect all body parts from high pressure fluid.

D001-012



Lower Right of windshield

CAUTION

System under pressure.
Do not open cap when hydraulic system is hot.

006204

WARNING

PUSH TO ACTIVATE EMERGENCY STOP
When servicing to prevent Serious injury or Death.

D001-129

EMERGENCY STOP
PUSH TO STOP

D001-028

WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-054

CAUTION

HOT EXHAUST
To avoid injury keep clear of exhaust pipes and muffler.

D001-053

WARNING

KEEP CLEAR OF CONVEYOR.

015900



EMERGENCY STOP
PUSH TO STOP

D001-129

WARNING

PUSH TO ACTIVATE EMERGENCY STOP
When servicing to prevent Serious injury or Death.

D001-129

WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-128

WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-054

WARNING

KEEP CLEAR OF CUTTING HEAD.

009097

CAUTION

BEFORE WORKING ON THE CUT OFF MECHANISM THE CAM FOLLOWER MUST BE CLEAR OF THE CUT OFF CAM.

D001-099



Front wheels only

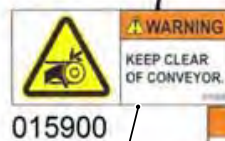
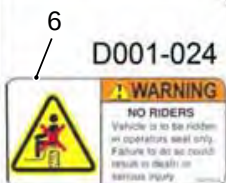
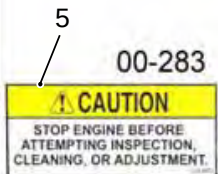
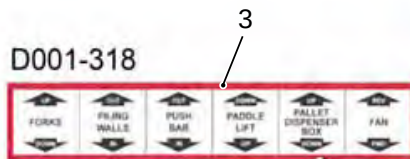
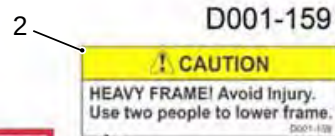
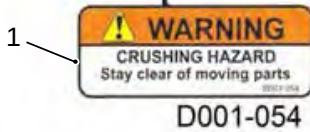
LIQUID FILLED

D001-181

ITEM NO.	PART NO.	DESCRIPTION	QTY
		BROUWER 4000 - SAFETY DECALS	
1	<u>D001-129</u>	Decal - "Warning - Push to Activate..."	2
2	<u>D001-128</u>	Decal - Emergency Stop Button	2
3	<u>D001-053</u>	Decal - "Caution - Hot Exhaust..."	1
4	<u>D001-012</u>	Decal - "Warning - High Pressure Fluid Hazard..."	1
5	<u>D001-054</u>	Decal - "Warning - Crushing Hazard..."	4
6	<u>006204</u>	Decal - "Caution - System Under Pressure..."	1
7	<u>015900</u>	Decal - "Warning - Keep Clear of Conveyor..."	1
8	<u>009097</u>	Decal - "Warning - Keep Clear of Cutting Head..."	1
9	<u>D001-099</u>	Decal - "Caution - Before Working on the Cut-Off..."	1
10	<u>4135181</u>	Decal - "Warning - Crushing Hazard"	1
11	<u>D001-181</u>	Decal - Liquid Filled	2



Arm Drive Motor Cover



ITEM NO.	PART NO.	DESCRIPTION	QTY
BROUWER 4000 - SAFETY DECALS			
1	<u>D001-054</u>	Decal - "Warning - Crushing Hazard..."	1
2	<u>D001-159</u>	Decal - "Caution - Heavy Frame..."	1
3	<u>D001-318</u>	Decal - Bulkhead ID	1
4	<u>D001-182</u>	Decal - "Warning - Lower The Rod..."	2
3	<u>D001-053</u>	Decal - "Caution - Hot Exhaust..."	1
4	<u>D001-012</u>	Decal - "Warning - High Pressure Fluid Hazard..."	1
5	<u>00-283</u>	Decal - "Caution - Stop Engine..."	1
6	<u>D001-024</u>	Decal - "Warning - No Riders..."	1
7	<u>D001-249</u>	Decal - "Caution - Disconnect the Battery..."	1
8	<u>4135014</u>	Decal - "Warning - Robot Arm Can Crush..."	1
9	<u>015900</u>	Decal - "Warning - Keep Clear of Conveyor..."	1
10	<u>4135015</u>	Decal - "Warning - Robot Arm Can Crush..."	1
11	<u>D001-128</u>	Decal - Emergency Stop Button	1
12	<u>D001-129</u>	Decal - "Warning - Push to Activate..."	1
13	<u>4136687</u>	Decal - "Warning - Pallet Dispenser Can Crush..."	1

WARNING

To prevent serious injury or death the operator must read the safety warnings and instructions in the Machine and the Engine Operator's manuals. The manuals must be kept on the machine at all times.

- The operator **MUST NOT** leave the operator's seat while the engine is running: the system will return to neutral and the blades will stop.
- NO ONE** must attempt to make any adjustments, see any jammed mechanism or clear debris, particularly in the vicinity of the Gripper Head, Palletizer Arm and the Pallet Injection, while the engine is running.
- Bystanders must be kept clear of the machine when it is operating.
- When leaving the machine unattended: Place the Control Handle in **NEUTRAL**, stop all functions, lower the Conveyor and Pallet Forks to the ground and the Gripper Head onto rolls of sod on the Index Conveyor. Stop the engine, remove the ignition key and lock the cab door.
- Turn the Battery Isolator Switch to **OFF** and lock it in place.

D001-222

CAUTION

To prevent damage to the Electronic Controllers: Do not do any welding on the machine until the Battery Isolator Switch is turned 'OFF'

D001-261

CAUTION

AVOID INJURIES, READ OPERATOR'S MANUAL BEFORE OPERATING MACHINERY.

202525

CAUTION

AVOID INJURIES, ENGAGE AUTO-STEER ONLY WHEN HARVESTING.

015499

WARNING

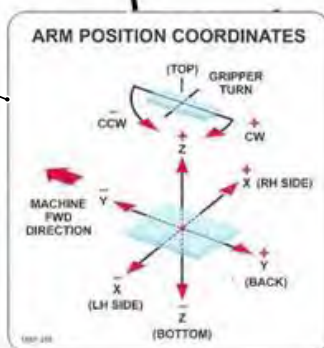
Switch the tractor engine 'OFF' before working on the electrical system. Failure to do so can result in serious burns and damage to components due to electrical 'shorts'.

D001-114

WARNING

Fasten your seat belt

D001-019



This machine is covered by one or more of the following patents:

U. S. Patents		
3,590,927	4,345,659	5,775,436
3,790,096	4,621,696	6,056,064
4,015,566	4,832,130	
4,018,287	4,944,352	
4,029,152	4,903,778	

Other patents pending.
Also patented in other countries.

THIS MACHINE CANNOT BE COPIED IN WHOLE OR IN PART FOR OWN USE OR RESALE.

BROUWER
EQUIPMENT BUILT FROM EXPERIENCE

015899

015899

ITEM NO.	PART NO.	DESCRIPTION	QTY
		BROUWER 4000 - SAFETY DECALS	
1	<u>D001-255</u>	Decal - Arm Position Coordinates	1
2	<u>D001-222</u>	Decal - "Warning - Read the Safety Warnings..."	1
3	<u>202525</u>	Decal - "Caution - Avoid Injuries Read Operators Manual..."	1
4	<u>015499</u>	Decal - "Caution - Avoid injuries, Engage Auto-Steer..."	1
5	<u>D001-019</u>	Decal - "Warning - Fasten Your Seat Belts..."	1
6	<u>D001-261</u>	Decal - "Caution - To prevent damage..."	1
7	<u>D001-114</u>	Decal - "Warning - Switch the tractor engine OFF..."	1
8	<u>D001-295</u>	Decal - Controller ID	1
9	<u>015899</u>	Decal - Patent	1



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