



BROUWER SOD HARVESTER

RoboMax^{JD}

John Deere. Model 6230 Tractor
John Deere. Model 6330 Tractor (Europe)
John Deere. Model 6105 Tractor
John Deere. Model 6115 Tractor (Europe)
John Deere. Model 6110 Tractor
John Deere. Model 6130 Tractor

PARTS LIST



Kesmac Inc.

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KM99197
June 2024

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STATEMENT OF LIMITED WARRANTY

Brouwer Kesmac warrants its full line of equipment to be free from defects in material and factory workmanship for a period of 12 months. This warranty begins on the date of sale or use of the equipment to the original purchaser. This statement does not extend or limit engine, tractor or component warranties in which the engine, tractor or component manufacturers may carry extended time periods up to 24 months. Engine, tractor or component warranty claims will be subject to the engine, tractor or components manufacturer's approval.

Replacement Parts carry a 90 day replacement warranty and are reimbursed to the dealer. All electrical and hydraulic parts are limited by this policy and will only be covered upon approval by the service department after inspection of the part. The installation and removal of a part will automatically place that part under the replacement parts warranty.

This warranty is limited exclusively to equipment or accessories manufactured or supplied by **Brouwer Kesmac** and are subject to the inspection and analysis by the company to conclusively identify the nature and cause of failure.

PRODUCT REGISTRATION FORM must be completely filled out, signed by the customer at the original date of installation, and returned to **Brouwer Kesmac** before any claims will be considered.

Brouwer Kesmac reserves the right to incorporate improvements in material and design of its products without notice and is not obligated to make the same improvements to equipment previously manufactured.

Brouwer Kesmac is not obliged under any warranty policy different from the Kesmac Brouwer Turf warranty policy as published above.

BROUWER KESMAC RESPONSIBILITIES

Brouwer Kesmac's obligation under the terms of this warranty is limited to the repair, replacement or credit, at its option, of the equipment, parts or supply items that conform to its warranty.

DEALER'S RESPONSIBILITIES

1. Only factory-trained service or approved personnel will be permitted to perform warranty service on **Brouwer Kesmac** equipment.
2. All major warranty claims exceeding \$650.00 (in total including parts and labour) must be authorized by **Brouwer Kesmac** before work is performed.
3. All replacement parts used in warranty situations must be furnished by **Brouwer Kesmac** or approved by **Brouwer Kesmac** personnel. The use of non-recommended oil could nullify warranty.

OWNERS RESPONSIBILITIES

The owner is obligated to operate and maintain the equipment in accordance with the recommendations published by **Brouwer Kesmac** in the owners/operators manual for the unit. The owner is responsible for the costs associated with such maintenance and operating adjustments that may be required on a regularly scheduled basis. Where applicable the owner is responsible for transportation to and from the dealership or service calls made by the dealer.

CONDITIONS THAT VOID WARRANTY

This warranty shall not apply to equipment which:

- 1. Has had repairs or modifications not authorized by **Brouwer Kesmac**
- 2. Has been subject to abuse, improper maintenance, or improper application.
- 3. Has been modified from original equipment specifications.

WARRANTY EXCEPTIONS

This warranty does not apply to the following items:

- 1. Wear items including blades, cutting edges, cutting arms, spark plugs, belts, filters, bearings, sprockets, chains, tires, light bulbs, lubricants and fluids etc. Cost of normal maintenance including replacement of service items.
- 2. Damages to engine/drive systems caused by lack of/ or improper lubricants and/or fluids.
- 3. Damages arising from accident, misuse or neglect.
- 4. Damages to engine/drive systems caused by improper operation and/or maintenance.
- 5. **Brouwer Kesmac** will not be liable for any incidental or consequential damage or injuries, including but not limited to loss of profits, loss of crops, rental of substitute equipment, or other commercial loss or for damage to the equipment in which the Company Product is installed.

FREIGHT CARRIER DAMAGE

Claims for equipment damaged in transit should be referred to the freight carrier. Visible damage should be reported immediately and concealed damage as soon as possible, in accordance with freight carrier regulations.

BROUWER

ROBOMAX JOHN DEERE SOD HARVESTER

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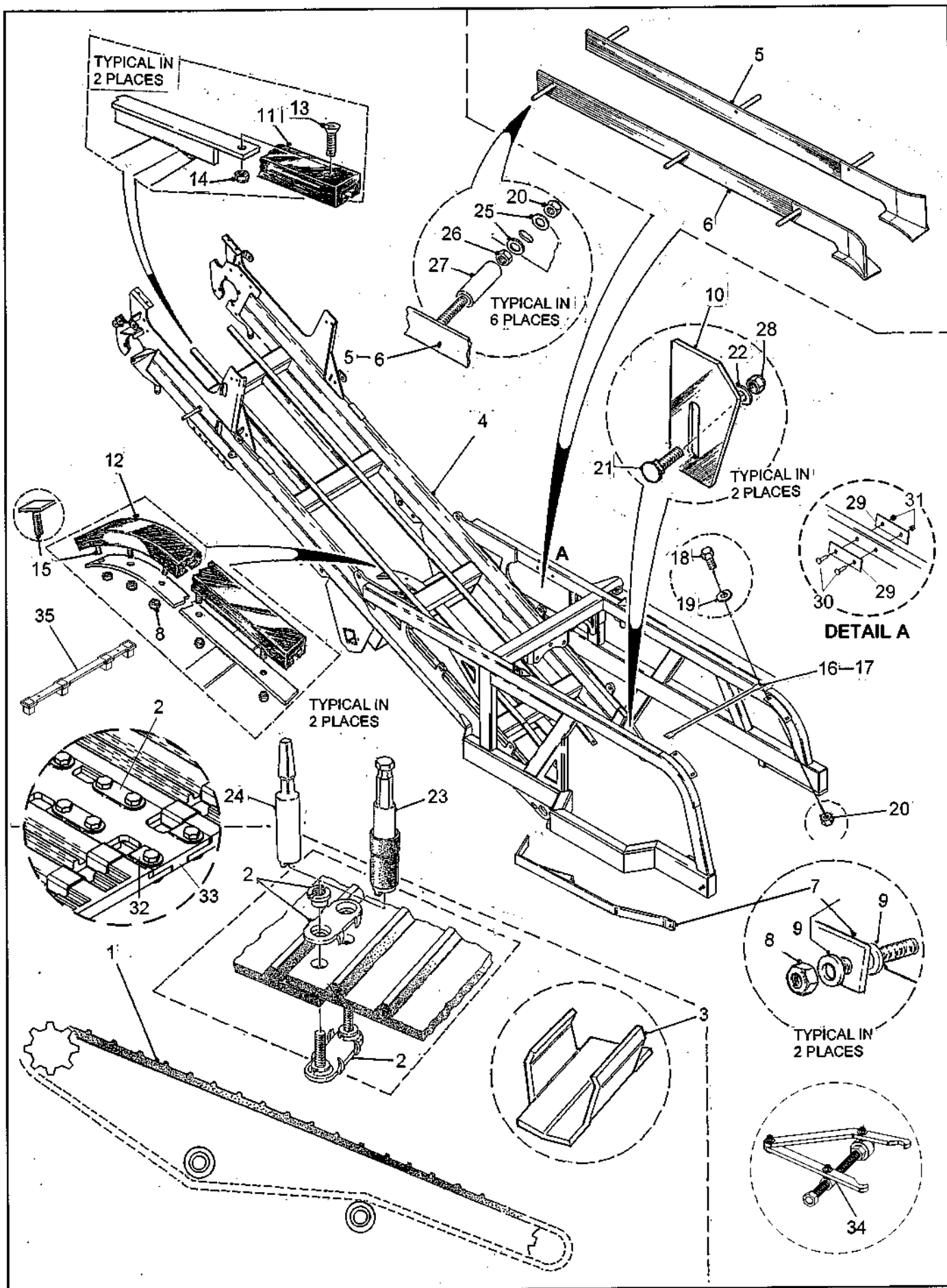
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ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE CONVEYOR FRAME			
1	H500127	Conveyor Mat 24 in. (224 in. Long)	1
	R500429	Conveyor Mat 16 in. (224 in. Long)	1
2	KD90001	Splice - Conveyor Mat (per mat)	14
3	KD90005	Mat Clip (per mat)	128
4	R300056	Conveyor Frame - 24 inch	1
	R300009	Conveyor Frame - 16 inch	1
5	H301111	Sod Guide - L.H. - 16 inch	1
	H301185	Sod Guide - L.H. - 24 inch	1
	H301235	Sod Guide - L.H. - 16 inch on 24 inch Conveyor	1
6	H301112	Sod Guide - R.H. - 16 inch	1
	H301186	Sod Guide - R.H. - 24 inch	1
	H301236	Sod Guide - R.H. - 16 inch on 24 inch Conveyor	1
7	H301158	Toe Guard	1
8	F210500	Locknut 5/16 unc	2
9	F320500	Washer 5/16	4
10	H101024	Adjuster Wedge	2
11	H101094	Slider - 92 in.	2
12	H101096	Slider. Return - 16 inch only - 45 in.	2
13	F610406	Screw 1/4 unc x 3/4. Fl. Hd. Phillips S.S.	3
14	F210408	Locknut 1/4-20 unc Gr.8	3
15	H301041	'T' Bolt	6
16	A101308	Tie Bar. 24 in.	1
17	A101307	Tie Bar. 16 in.	1
18	F020510	Carriage Bolt 5/16 unc x 1	2
19	F320508	Flat Washer 5/16 uss Gr.8	4
20	F210608	Locknut 5/16-18 Gr.8	8
21	F020814	Carriage Bolt 1/2 unc x 1 1/2	2
22	F330808	Flat Washer 1/2 sae Gr. 8	2
23	KD89999	Tool. Belt Splicer. (Impact Air Powered)	1
24	KD90000	Tool. Belt Splicer. Std.	1
25	F330608	Washer 3/8 Gr. 8	12
26	F230608	Hex Nut 3/8 unc Gr.8	6
27	H101246	Spacer - Sod Guide - 16 inch only	6
	H101742	Spacer - Sod Guide - 16 inch Head in 24 inch Conveyor	6
	H101743	Spacer - Sod Guide - 23 inch	6
28	F210808	Locknut 1/2 unc Gr.8	2
29	R100607	Wear Bar	2
30	F020520	Carriage Bolt 5/16 unc x 2 1/2	2
31	6427301	Nut - Low Profile 5/16-18x5/8	2
32	002641	Mat Splice Half	8
33	B101185	Rubber Belt Splicer - 24 inch	1
	B100955	Rubber Belt Splicer - 16 inch	2
34	S500002	Conveyor Belt Tightener	1
35	S300014	Conveyor Mat Joiner Jig	1

ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE CONVEYOR DRIVE ASSEMBLY			
1	F230608	Nut 3/8 unc	4
2	KB31024	Flanged Bearing 1.50 Dia. - Non Current	2
3	B300280	Idler Shaft 24 in. (Standard) H301033 - Crown Roller - 24 in. (Optional)	1
	B300279	Idler Shaft 16 in. (Standard) H301009 - Crown Roller - 16 in. (Optional)	1
4	KB11212	Flanged Bushing	4
5	KC01002	3/16 Shackle	4
6	H101024	Plate - Adjuster Wedge	2
7	4134550	Caplug 2 x 2 in.	2
8	H301005	Tensioner Arm L.H.	1
9	H301006	Tensioner Arm R.H.	1
10	016640	Idler Spring Mount - Non Current	2
11	H301117	Roll-Up Conveyor Shaft - 24 in.	2
12	F924410	Key 1/4 x 1/4 x 1 - Current from Serial # 321	1
13	F924412	Key 1/4 x 1/4 x 1 1/4 - Current from Serial # 321	1
15	R300009	Main Conveyor - 16 in.	1
	R300056	Main Conveyor - 24 in.	1
16	4133815	Sensor Bracket - Non Current	1
17	R100924	Sod Guide - 24 in. L.H.	1
18	R100925	Sod Guide - 24 in. R.H.	1
19a	B101462	2.25 Shaft - 16 in. - Current from Serial # 321	1
	B101463	2.25 Shaft - 24 in. - Current from Serial # 321	1
19b	B100823	1.50 Shaft - 16 in. - Non Current	1
	B100894	1.50 Shaft - 24 in. - Non Current	1
20	F331008	Washer 5/8	4
21	H101069	Crown Roller Scraper - 16 & 18 in. (Optional)	1
	H101187	Crown Roller Scraper - 24 in. (Optional)	1
22	F830074	Retaining Ring External 3/4 in.	2
23	KB32016	Flanged Bearing	2
24	F270808	Jam Nut 1/2-13 Gr.2 - Nyloc - Non Current	8
25	F140502	Set Screw 5/16 x 1/4	4
26	F311008	Lockwasher 5/8	4
29	F040714	Bolt 7/16 unc x 1 1/2 Gr.8	4
30	F040412	Bolt 1/4 unc x 1 1/4 Gr.8	2
31	F330708	Washer 7/16	4
33	F331208	Washer 3/4	2
34	F210408	Locknut 1/4-20 unc Gr.8	22
36	F210708	Locknut 7/16 unc	12
37	F040820	Bolt 1/2 unc x 2 Gr.8 - Non Current	8
38	F924410	Key 1/4 x 1/4 x 1 Lg.	1
40	F210808	Locknut 1/2 unc	8
41	R300063	Idler Shaft - 16 in.	1
	H301117	Idler Shaft - 24 in.	1
42	F040716	Bolt 7/16 unc x 1 3/4 Gr.8	4
43	R100922	Sod Guide - 16 in. L.H.	1
	R100923	Sod Guide - 16 in. R.H.	1
44	KB32012	Flanged Bearing (16 in. Qty: 2) (24 in. Qty:6)	2 or 6
46	R100516	Conveyor Tooth Count - 24 Tooth - Non Current up to S/N 423	1
47	KD72310	Sprocket #40 x 23 Tooth - 16 in.	1
	KD71210	Sprocket #40 x 12 Tooth - 24 in.	1
48	F330400	Washer 1/4	8
49	F020820	Carriage Bolt 1/2 unc x 2	2
50	F041020	Bolt 5/8 unc x 2	4

NOTE

Items 13, 19a, 34, 56, 59, 60, 61 & 62 available as - Main Conveyor Shaft Assembly B500189 - 16 in. B500190 - 24 in.

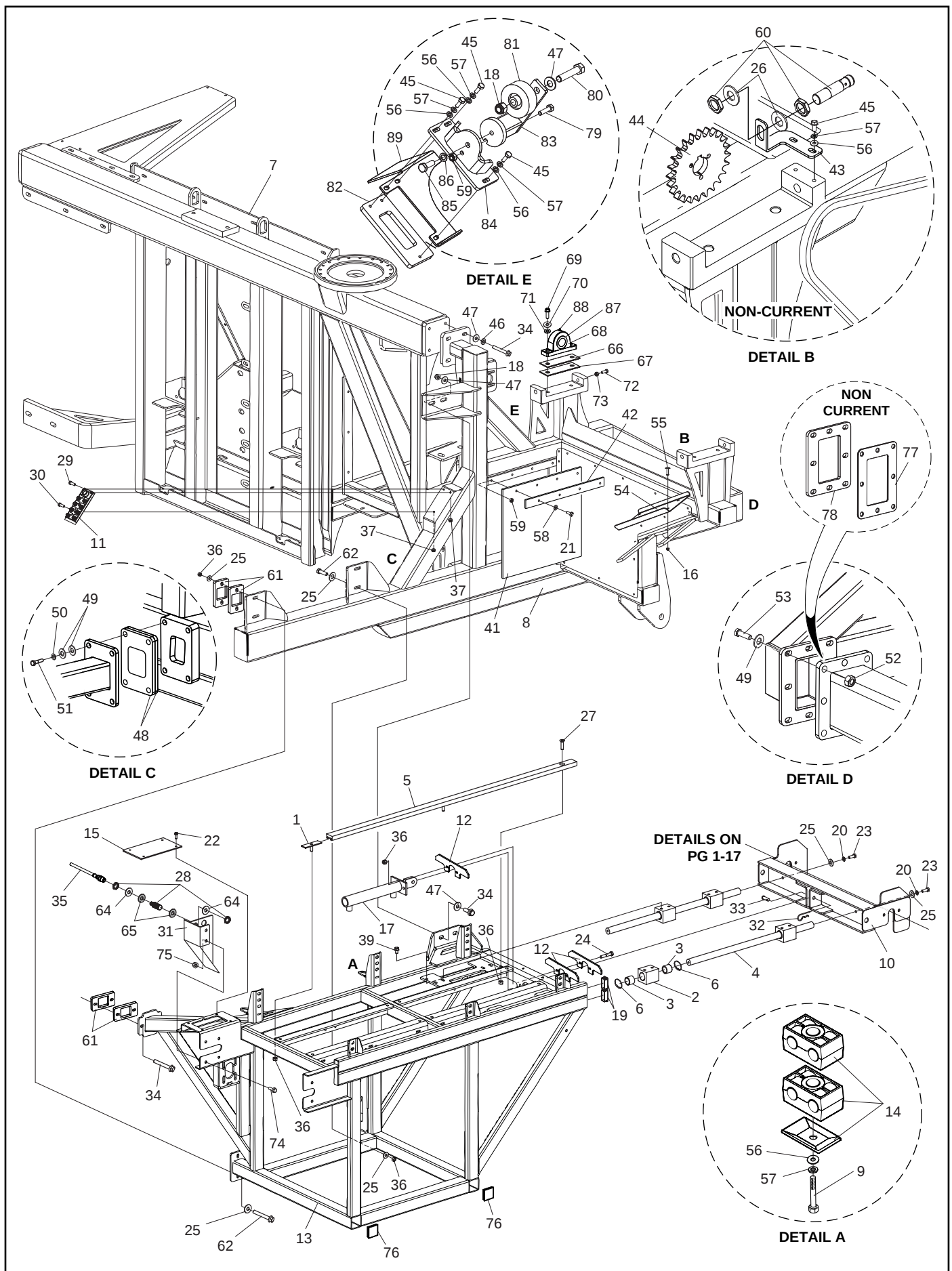
NOTE

Items 13, 19a, 34, 56, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69 70, 72 & 73a available as - Conveyor Drive Shaft Assembly **Current** from Serial # 321: B500236 - 16 in. B500237 - 24 in.

ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE CONVEYOR DRIVE ASSEMBLY			
51	R100613	Sod Guide - 23 in. L.H.	1
	R100614	Sod Guide - 23 in. R.H.	1
52	Q8404	Quick Link - 3/16 - Non Current	4
54	KS20002	Spring	2
55	H301031	Feed Roller Pivot	1
56	B101265	Sprocket Clamp Plate 2.25 Shaft - Current from Serial # 321	2
	R100445	Sprocket Clamp Plate - Non Current	2
57	KD41810	Sprocket 18 Tooth	1
58	R100849	Sod Deflector - 16 in. (Optional)	1
	R100850	Sod Deflector - 24 in. (Optional)	1
59	KD20001	Conveyor Sprocket	2
60	F040410	Bolt 1/4-20 unc x 1 Gr.8	18
61	B101264	Sprocket Flange - 2.25 Shaft - Current from Serial # 321	2
	B100824	Sprocket Flange - 1.50 Shaft - Non Current	2
62	F140503	Set Screw 5/16-18 unc x 3/8 - Current from Serial # 321	4
63	B101461	Lock Collar Spacer - Current from Serial # 321	4
64	KM11400	Grease Fitting - Current from Serial # 321	2
65	KM10066	Lock Collar 40mm - Current from Serial # 321	4
66	B101459	Flanged Conveyor Bearing Housing - Current from Serial # 321	2
67	B101520	Conveyor Bearing Cover Plate - Current from Serial # 321	2
68	F120203	Flat Head Socket - 10-24 unc x 3/8 Lg. - Current from Serial # 321	8
69	KB16335	Spherical Roller Bearing 40mm - Current from Serial # 321	2
70	F041024	Bolt 5/8 unc x 2 1/2 Gr.8 - Current	4
	F041026	Bolt 5/8 unc x 2 3/4 Gr.8 - Non Current	4
71	F311008	Lockwasher 5/8 Gr.8 - Non Current	4
72	F331008	Washer 5/8 sae Gr.8	4
73a	B101460	Flanged Conveyor Bearing Housing - Current	2
73b	KB30054	Bearing 1 1/2 in. Bore Bearing - Non Current	2
74	Q8402-16.00	3/16 Chain	2
75	KH00337	Fitting. 90 Deg. Elbow Long	1
76	8-8-070221	Fitting. 90 Deg. Elbow	1
77	8-8-070601	Fitting. #8 Bulkhead Straight	2
78	F310500	Lockwasher 5/16	2
79	F040504	Bolt 5/16 unc x 1/2	2
80	B300254	Conveyor Bulkhead	1
81	F231858	Hex Nut 1 1/8 unf Gr.8	2
82	F8054	Nord Lockwasher 27mm	2
83	M100273	Castor Spacer Collar	2
84	B8015	Cam Follower 2.00	2
85	F310608	Washer 3/8 unc Gr.8	4
86	F040816	Bolt 1/2 unc x 1 3/4	8
87	F231000	Hex Nut 5/8	4
88	F040612	Bolt 3/8 x 1 1/4	4
89	G815080	Retaining Ring - Internal - 80mm - Current	2

NOTE

Items 13, 19a, 34, 56, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69 70, 72, 73a & 89 available as - Conveyor Drive Shaft Assembly **Current** from Serial # 321:
B500236 - 16 in.
B500237 - 24 in.



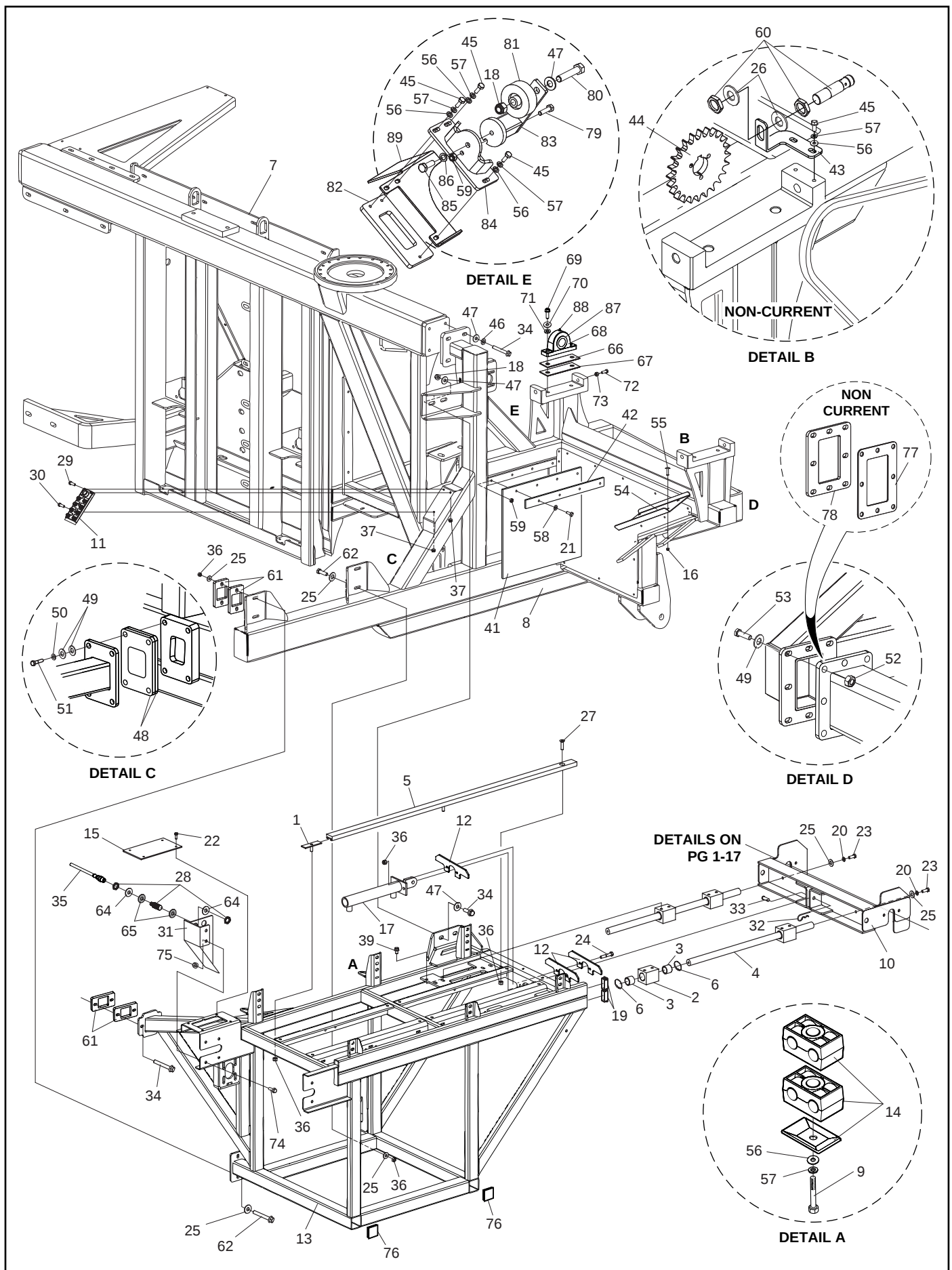
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE INDEX CONVEYOR MOUNTING	
1	016661	Slider T-Bolt (Qty: 8x for 24 in. Qty: 4x for 16 in.)	8
2	4128917	Guide Block	4
3	4128942	Bearing Sleeve	8
4	4129177	Guide Shaft	2
5	4129323	Slider. Index Conveyor (Qty: 4x for 24 in. Qty: 2x for 16 in.)	4
6	F815125	Internal Retaining Ring	8
7	R300002	Main Beam	1
8	R300341	Conveyor Mounting Fr. JD 6110 - 24 in. - Current from Serial No. 305	1
	R300340	Conveyor Mounting Fr. JD 6110 - 16 in. - Current from Serial No. 305	1
	R300054	Conveyor Mounting Frame - 24 in. - Non Current up to Serial No. 304	1
	R300028	Conveyor Mounting Frame - 16 in. - Non Current up to Serial No. 304	1
9	F040428	Bolt 1/4 unc x 2 3/4 Gr.8	1
10	4138642	Bracket. Bad Roll - 24 in.	1
	R300042	Bracket. Bad Roll - 16 in.	1
11	KE60115	Junction Box - 8 Port	1
12	4160493	Spacer	A/R
13	R300027	Index Conveyor - 16 in.	1
	R300055	Index Conveyor - 24 in.	1
14	4135024	Hose Clamp - 5/8	2
15	4160420	Rear Cover Plate	1
16	F840500	Nut 5/16 unc - Serrated	4
17	4131860	Cylinder 1 1/4 x 5/8 x 8	1
18	F210808	Nyloc Nut 1/2 unc Gr.8	3
19	4134551	Caplugs - 1 x 2	4
20	F310608	Lockwasher 3/8	2
21	F040514	Bolt 5/16 unc x 1 1/2 Gr.8	4
22	F870406	Bolt 1/4 unc x 3/4 Wlf.	4
23	F040610	Bolt 3/8 unc x 1 Gr.8	2
24	F040616	Bolt 3/8 unc x 1 3/4 Gr.8 - See Note 2	2
25	F330608	Flatwasher 3/8	10
26	G321800	Flatwasher M18	2
27	F120614	Screw 3/8 x 1 1/2 Flat. Hex. Hd.	4
28	4132983	Sensor - Inductive 8mm	1
29	F180112	Screw 8-32 x 1 1/4 Hex. Soc.	2
30	F180114	Screw 8-32 x 1 1/2 Hex. Soc.	1
31	4160407	Bracket. Motor Sensor	1
32	F940229	Hitch Pin Clip 1/8 x 2 9/16	1
33	KX00814	Clevis Pin 1/2 x 1 1/2	1
34	F040814	Bolt 1/2 unc x 1 1/2 Gr.8	4
35	4134048	Sensor Cable	1
36	F210608	Locknut 3/8 unc	14
37	F210100	Locknut #8-32	3
39	F870604	Bolt 3/8 unc x 1/2 Flanged	8
41	R100452	Mud Flap	1
42	R100464	Clamp Bar. Mud Flap	1
43	R100619	Bracket. Conveyor Tooth Count	1
44	R100516	Sprocket. Conveyor Tooth Count - 24 Tooth	1
45	F040406	Bolt 1/4 unc x 3/4 Gr.8	5
46	F310808	Lockwasher Helical 1/2 Gr.8	4
47	F330808	Flatwasher 1/2 sae Gr.8	9
48	R100555	Right Side Frame Spacer	2

NOTE

Items 18, 45, 56, 57, 59 & 79-86
are available as Chain Tensioner
Retrofit Kit - R500201

NOTE 2

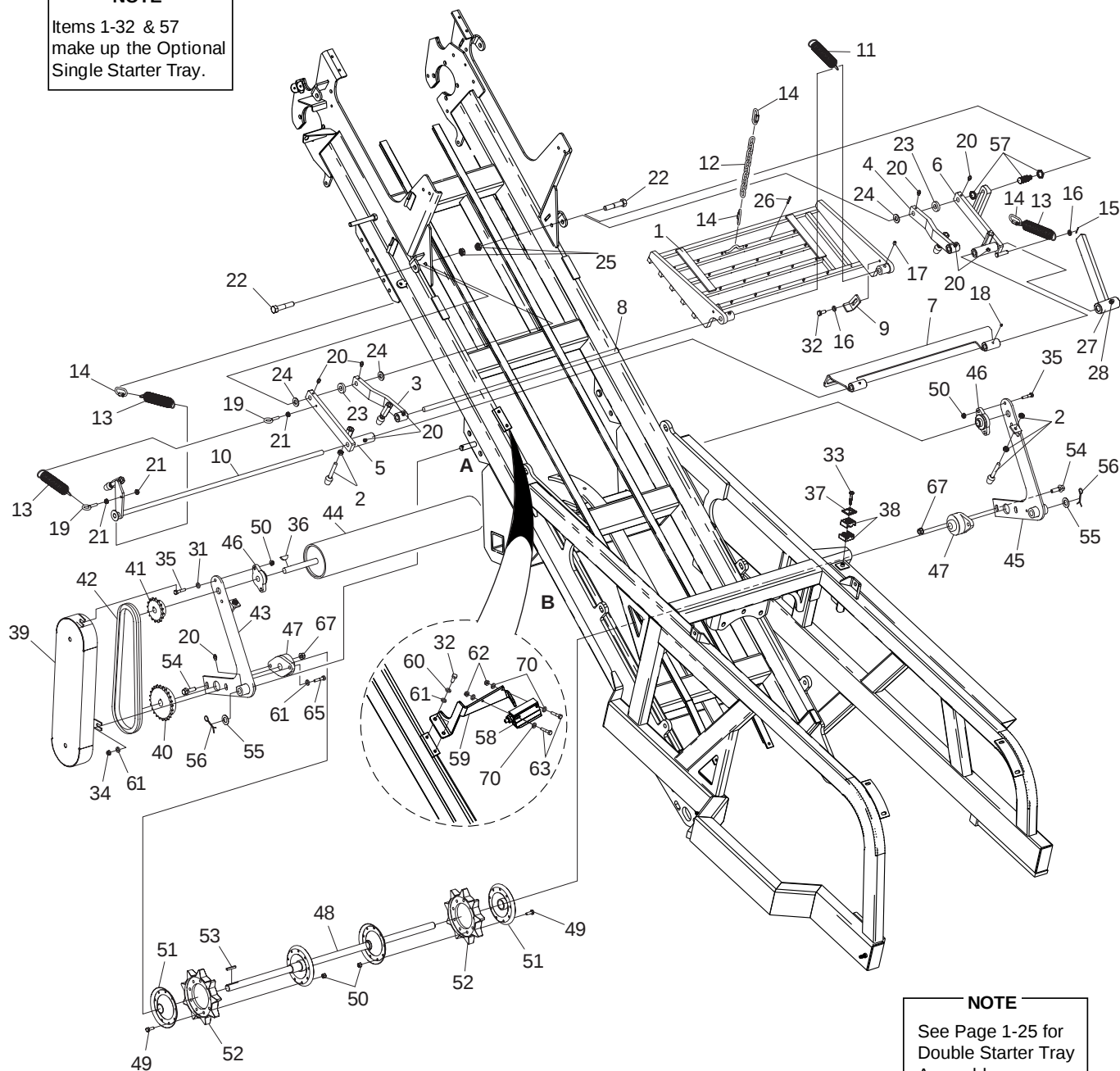
The length of Item 24 varies
depending on the width of cut.
16 inch width of cut - 1 3/4 in.
24 inch width of cut - 1 1/4 in.



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE INDEX CONVEYOR MOUNTING	
49	F330708	Flatwasher 7/16 Gr.8 uss	16
50	F310708	Lockwasher 7/16 Gr.8	4
51	F040720	Bolt 7/16 unc x 2 Gr.8	4
52	F210708	Nyloc Nut 7/16 unc Gr.8	8
53	F040714	Bolt 7/16 unc x 1 1/2 Gr.8	8
54	R100311	Scrap Chute	1
55	F020510	Carriage Bolt 5/16 unc x 1	4
56	F330408	Flatwasher 1/4 Gr.8 uss	4
57	F310408	Lockwasher 1/4 unc Gr.8	4
58	F320508	Flatwasher 5/16 Gr.8 uss	4
59	F210508	Locknut 5/16-18 Gr.8	5
60	4132981	Inductive Sensor 4mm - Non Current	1
61	R100480	Piling Wall Spacer	4
62	F040624	Bolt 3/8 unc x 2 1/2 Gr.8	2
64	A101493	Washer 18mm	2
65	KS60013	Neoprene Washer 3/4 x 1.50	2
66	R100540	Conveyor Shim - Thick - Non Current	2
67	R100458	Conveyor Isolator - Non Current	2
68	B101460	Flanged Conveyor Bearing Housing - Current from Serial # 321	2
	KB30054	Bearing 1 1/2 in. Bore Bearing - Non Current	2
69	F041026	Bolt 5/8 unc x 2 3/4 Gr.8 - Current from Serial # 321	4
	F041024	Bolt 5/8 unc x 2 1/2 Gr.8 - Non Current	4
70	F311008	Lockwasher 5/8 Gr.8 - Non Current	4
71	F331008	Washer 5/8 sae Gr.8	4
72	F031024	Bolt 5/8 unc x 2 1/2 Full Tread Gr.8	4
73	F221000	Jam Nut 5/8 unc	4
74	F870606	Bolt 3/8-16 x 3/4 Gr.5 Flanged	2
75	F840600	Nut 3/8 unc Serrated Flange	2
76	4134550	Plastic Plug	2
77	A101171	Spacer 1/8 - Non Current	1
78	R100395	Spacer 3/8 - Non Current	1
79	F040512	Bolt 5/16 unc x 1 1/4 Gr.8 - Current from Serial No. 218	1
80	F040824	Bolt 1/2 unc x 2 1/2 Gr.8 - Current from Serial No. 218	1
81	KD11080	Idler Roller 2.75 Dia. - Current from Serial No. 218	1
82	R101327	Chain Tensioner Mntg. Plate - Current from S/N 218 (Retrofit Kit Only)	1
83	R101328	Rosta Modification - Current from Serial No. 218	1
84	R300241	Rosta Chain Tensioner Mount - Current from Serial No. 218	1
85	G0410030	Hex Head M10 x 1.5 x 30 Lg. - Current from Serial No. 218	1
86	G311000	Lockwasher M10 - Current from Serial No. 218	1
87	KB16335	Spherical Roller Bearing 40mm - Current from Serial # 321	2
88	KM11400	Grease Fitting - Current from Serial # 321	2
89	KM11400	Motor Sensor Guard - Non Current from Serial # 424-430	1
		NOTE Items 18, 45, 56, 57, 59 & 79-86 are available as Chain Tensioner Retrofit Kit - R500201	

NOTE

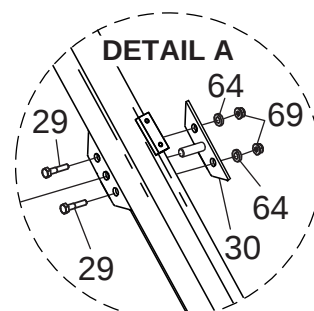
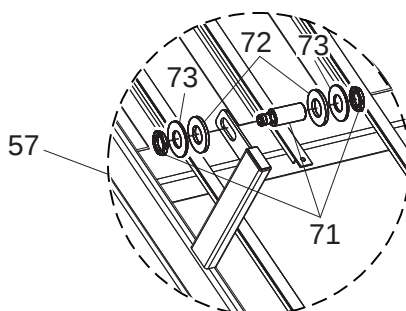
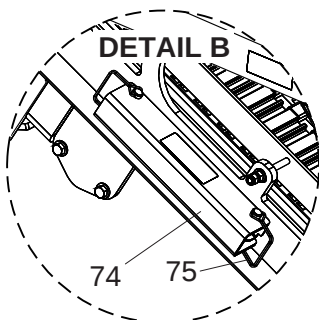
Items 1-32 & 57
make up the Optional
Single Starter Tray.



NOTE

See Page 1-25 for
Double Starter Tray
Assembly.

OPTIONAL



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE STARTER TRAY ASSEMBLY			
1	4160255	Starter Tray. 24 in - 4 Bar	1
	4160260	Starter Tray. 16 in - 4 Bar	1
2	KS60002	Bumper Spindle 3/8	7
3	6115859	Offset Link Arm	1
4	6115860	Offset Link Arm	1
5	6115857	Link Arm R.H.	1
6	6115858	Link Arm L.H.	1
7	6115825	Starter Gate - 16 in. & 18 in.	1
	6115826	Starter Gate - 24 in.	1
8	6115892	Rod. Starter Tray - 24 in.	1
	6115891	Rod. Starter Tray - 16 in.	1
9	6115861	Stop. Starter Tray	2
10	4139954	Pivot Rod - 24 in.	1
	6115862	Pivot Rod - 16 in.	1
11	001277	Spring. Starter Tray	1
12	Q8402	Chain. Starter Tray	1
13	001279	Spring. Scraper Blade	3
14	G8084	Quick Link. 3/16 in.	2
15	F910310	Cotter Pin. 3/32 x 1	1
16	F320608	Washer 3/8	3
17	64044-2	Set Screw 5/16	2
18	64044-13	Set Screw 1/4 x 1/4	2
19	F050420	Eye Bolt 1/4 x 2 W/9/16	2
20	KM11400	Grease Fitting 1/4	10
21	F840824	Nut. 1/4 Wlf.	3
22	F040824	Bolt 1/2 unc x 2 1/2 Gr.8	2
23	99-B12	Spacer	2
24	F320808	Washer 1/2	4
25	F220800	Jam Nut - 1/2 Nylon Insert	2
26	F940312	Pin. Spring Tension	24
27	4139958	Roll-Up Flag	1
28	F110610	Screw	1
29	F040612	Bolt 3/8 unc x 1 1/4	4
30	R300195	Roller Pivot Pin Plate	2
31	F330408	Washer 1/4	1
32	F040506	Bolt 5/16 unc x 3/4 Gr.8	5
33	F040414	Bolt 1/4 unc x 1 1/2	1
34	F210508	Locknut 5/16 unc	1
35	F040412	Bolt 1/4 unc x 1 1/4 Gr.8	4
36	F900310	Woodruff Key #608	1
37	KH63006	Hose Clamp Cover Plate	1
38	KH65108	Clamps 12mm D.D.	2
39	R500423	Roller Drive Guard	1
40	KD72406	Sprocket. #40 x 24T x 3/4	1
41	KD71605	Sprocket. #40 x 16T x 5/8	1
42	Q8430-35.50	Chain	1
43	R300047	Roller Arm - 4 in. R.H.	1
44	001437	4 in. Roller - 24 in.	1
	014204	4 in. Roller - 16 in.	1

NOTE

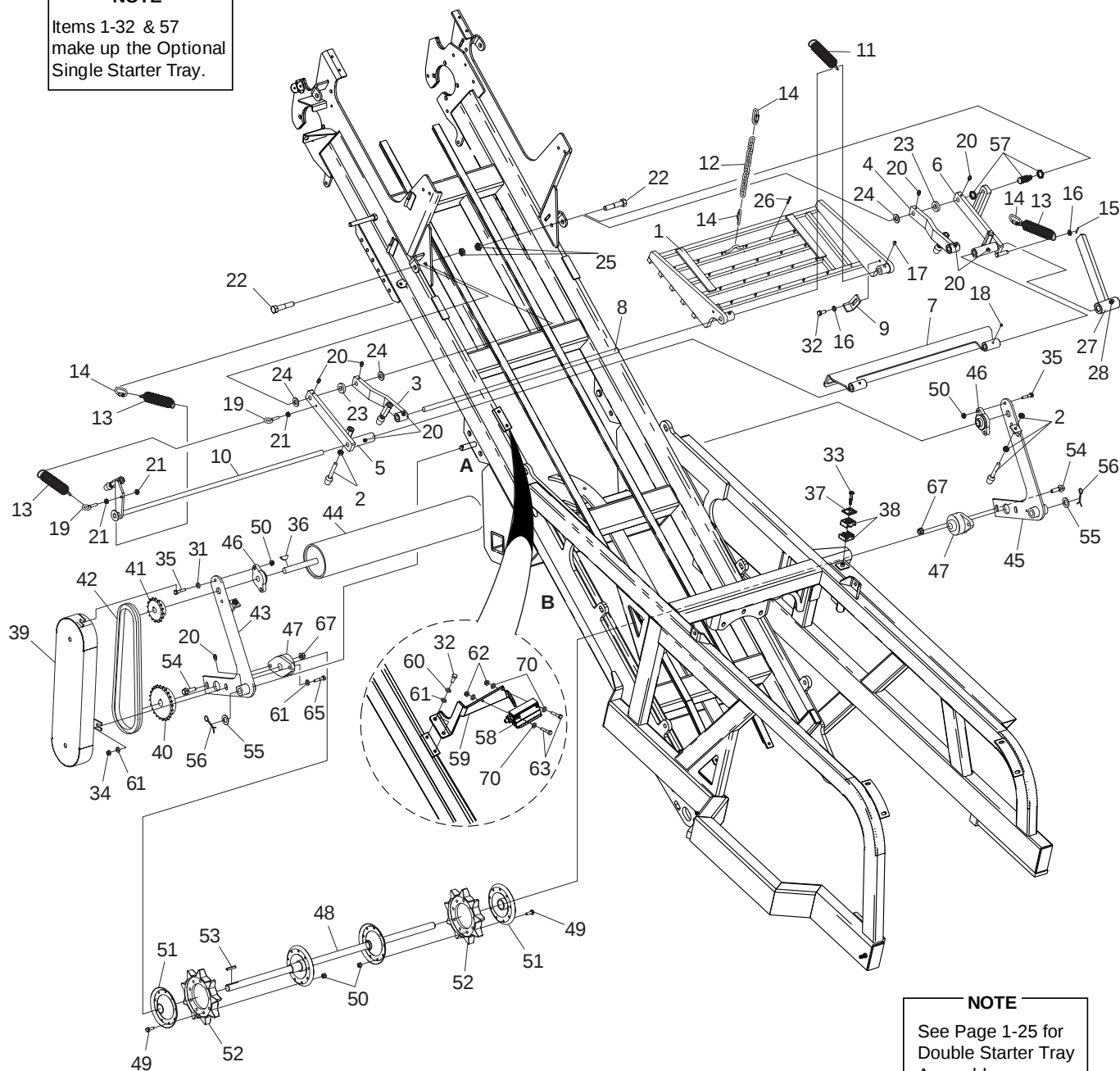
Items 1-32 & 57 make up the Optional Single Starter Tray.

NOTE 1

See Note 1 on Page 1-09 & 1-11 for Inductive Sensor (Item 57) location on Double Starter Tray.

NOTE

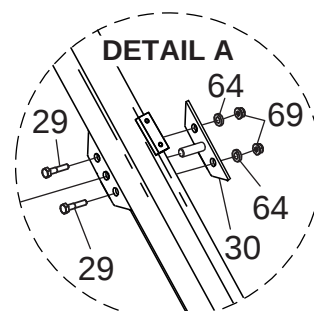
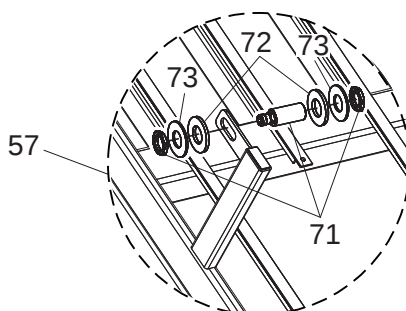
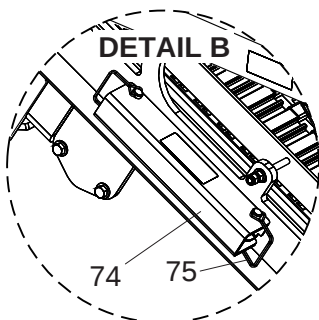
Items 1-32 & 57
make up the Optional
Single Starter Tray.



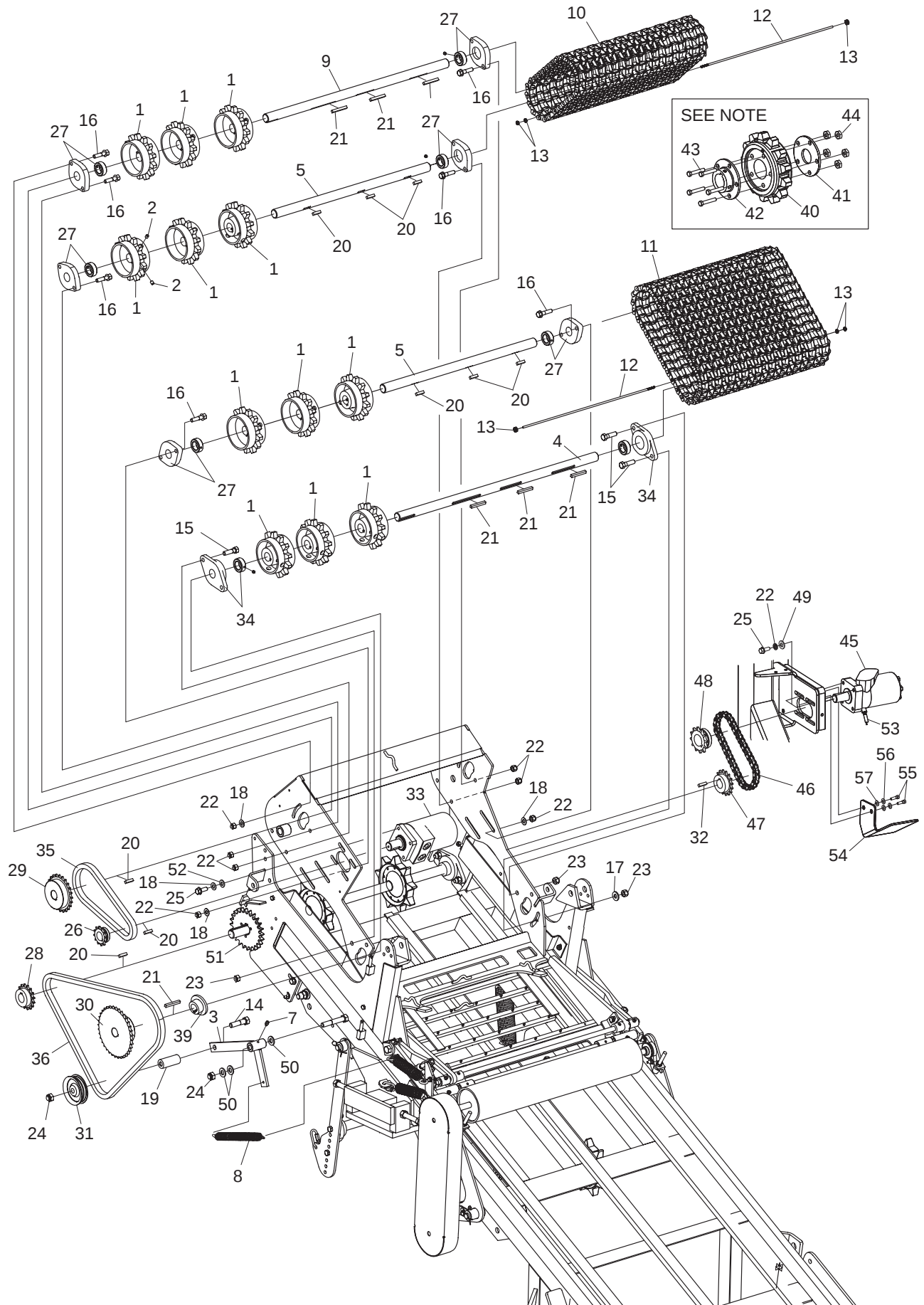
NOTE

See Page 1-25 for
Double Starter Tray
Assembly.

OPTIONAL



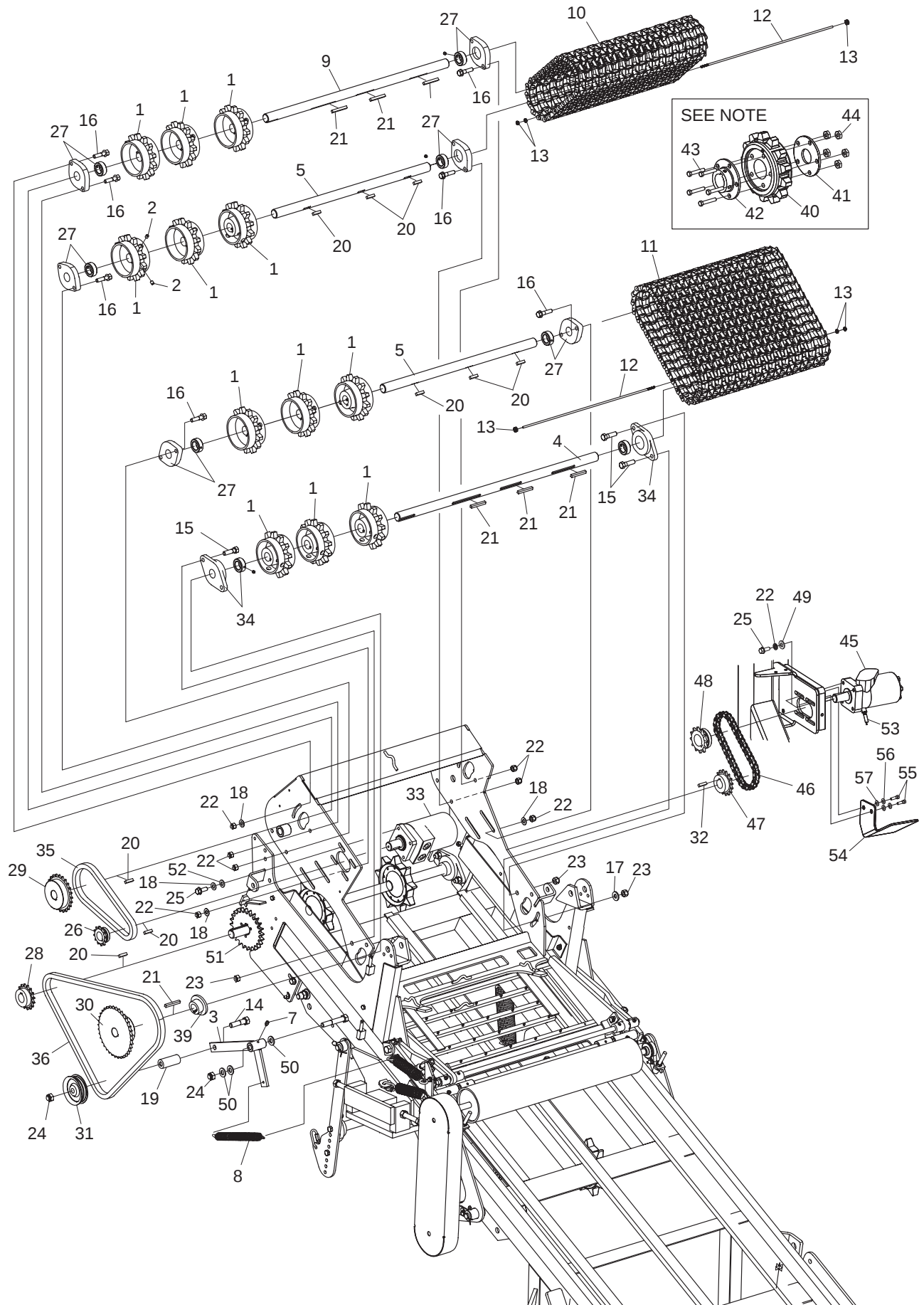
ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE STARTER TRAY ASSEMBLY			
45	R300046	Roller Arm - 4 in. L.H.	1
46	B0002	Flange Bearing	2
47	KB32012	Bearing	2
48	002611	Idler Shaft - 24 in.	1
	014128	Idler Shaft - 16 in.	1
49	F040410	Bolt 1/4 unc x 1 Gr.8	18
50	F210408	Locknut 1/4 unc	32
51	A100761	Sprocket Plate	2
52	KD20001	Gear	2
53	F923311	Key 3/16 x 3/16 x 1 1/8	1
54	F020614	Carriage Bolt 3/8 x 1.50	4
55	F331008	Flatwasher 5/8 uss Gr.8	2
56	F910514	Cotter Pin 5/32 x 1 1/2	2
57	A500228	Sensor. Inductive - 8mm (Optional)	1
58	KE10389	Sensor. End of Roll (Optional)	1
59	R300184	Sensor Mounting Bracket	1
60	F310508	Lockwasher 5/16 unc Gr. 8	2
61	F330508	Washer 5/16 sae Gr. 8	2
62	G270400	Nyloc Jam Nut M4-0.7 - Current	2
	F210100	Nyloc Nut #8-32 Gr.2 zinc - Non Current	2
63	G1804035	Socket Head Bolt M4-0.7 x 35mm Lg. - Current	2
	F540114	Bolt 8-32 x 1.5 Pan Hd Phil - Non Current	2
64	F310608	Lockwasher 3/8	4
65	F040510	Bolt 5/16 unc x 1	1
67	F310608	Locknut 3/8	4
69	F040510	Hexnut 3/8	2
70	G330400	Flatwasher M4 Type A - Current	4
71	KE10155	Inductive Proximity Switch	1
72	KS60013	Neoprene Washer 3/4 x 1.50	2
73	A101493	Washer 18mm Proximity Sensor	2
74	R500430	Cylinder Stop Assembly	1
75	KX30027	Lynch Pin 3/8 x 2.50	2
NOTE Items 1-32 & 57 make up the Optional Single Starter Tray.			
NOTE Items 48, 49, 50, 51 & 52 available as Idler Shaft Roller Drive Assembly: R500414 - 24 in. A03254 - 16 in.			
NOTE Items 58, 62, 63 & 70 available as Diffuse Sensor W16 Service Kit : B500469			



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ROLL-UP CONVEYOR DRIVE			
1	001348	Gear (Includes Item 2 - Set Screw) - Non Current	12
	R500068	Roll-Up Sprocket Assembly - Current	12
2	F140503	Set Screw 5/16 x 3/8	24
3	001375	Idler Arm. Roll-Up Drive	1
4	R100457	Driveshaft. Roll-Up - 24 in.	1
	R100314	Driveshaft. Roll-Up - 16 in.	1
5	016720	Shaft. Idler - 24 in.	2
	R100259	Shaft. Idler - 16 in.	2
7	KM11400	Grease Fitting 1/4	1
8	41-047	Spring	1
9	4129654	Shaft. Vertical Drive - 24 in.	1
	R100260	Shaft. Vertical Drive - 16 in.	1
10	4134808	Mintex Belt 18 in. (Includes Items 12 & 13) - 24 in.	1
	R100743	Mintex Belt 15 in. (Includes Items 12 & 13) - 16 in.	1
11	4134809	Mintex Belt 18 in. (Includes Items 12 & 13) - 24 in.	1
	R100589	Mintex Belt 15 in. (Includes Items 12 & 13) - 16 in.	1
12	001465	Conector - 18 in Mintex - 24 in.	2
	KR15017	Conector - 15 in Mintex - 16 in.	2
13	F230200	Nut #10-24 unc	6
14	F040840	Bolt 1/2 unc x 4 Gr.8	1
15	F040714	Bolt 7/16 unc x 1 1/2 Gr.8	4
16	F040614	Bolt 3/8 unc x 1 1/2 Wlf.	12
17	F330708	Washer 7/16	2
18	F330608	Washer 3/8	10
19	H101246	Sod Guide Spacer	1
20	F924410	Key 1/4 x 1/4 x 1	9
21	F924420	Key 1/4 x 1/4 x 2	7
22	F210608	Locknut 3/8 unc	16
23	F210700	Locknut 7/16 unc	4
24	F210808	Locknut 1/2 unc	2
25	F040610	Bolt 3/8 unc x 1 Gr.8	8
26	KD71410	Sprocket #40 - 14 Tooth - 24 in.	1
	KD71610	Sprocket #40 - 16 Tooth - 16 in.	1
27	B0121	Bearing - 2 Bolt Flange	6
28	KD71210	Driveshaft. Sprocket - 12 Tooth - 24 in.	1
	KD72310	Driveshaft. Sprocket - 23 Tooth - 16 in.	1
29	KD71610	Sprocket #40 - 16 Tooth - 24 in. & 16 in.	1
30	KD80036	Roll-Up Sprocket - 36 Tooth - 24 in.	1
	KD80038	Roll-Up Sprocket - 38 Tooth - 16 in.	1
	KD80054	Roll-Up Sprocket (Sprocket Option)	1
31	D2902	Belt Idler Sheave	1
32	F924413	Key 1/4 x 1/4 x 1 3/8 Lg.	1
33	KH30007	Motor	1
34	55-FB23016	Bearing - 2 Bolt Flange	2
35	Q8430-26.50	Chain - 43 Links	2
36	Q8430-48.75	Chain - 97 Links	1
37	81-056	Link. Connector #40	2
38	81-076	Half Link #40	2
39	KD80003	Split Lock Bushing Type P1 x 1.0	1

NOTE

Item 1 is Non Current and is replaced by Roll-Up Sprocket Assembly R500068 which include Items 40, 41, 42, 43 & 44.



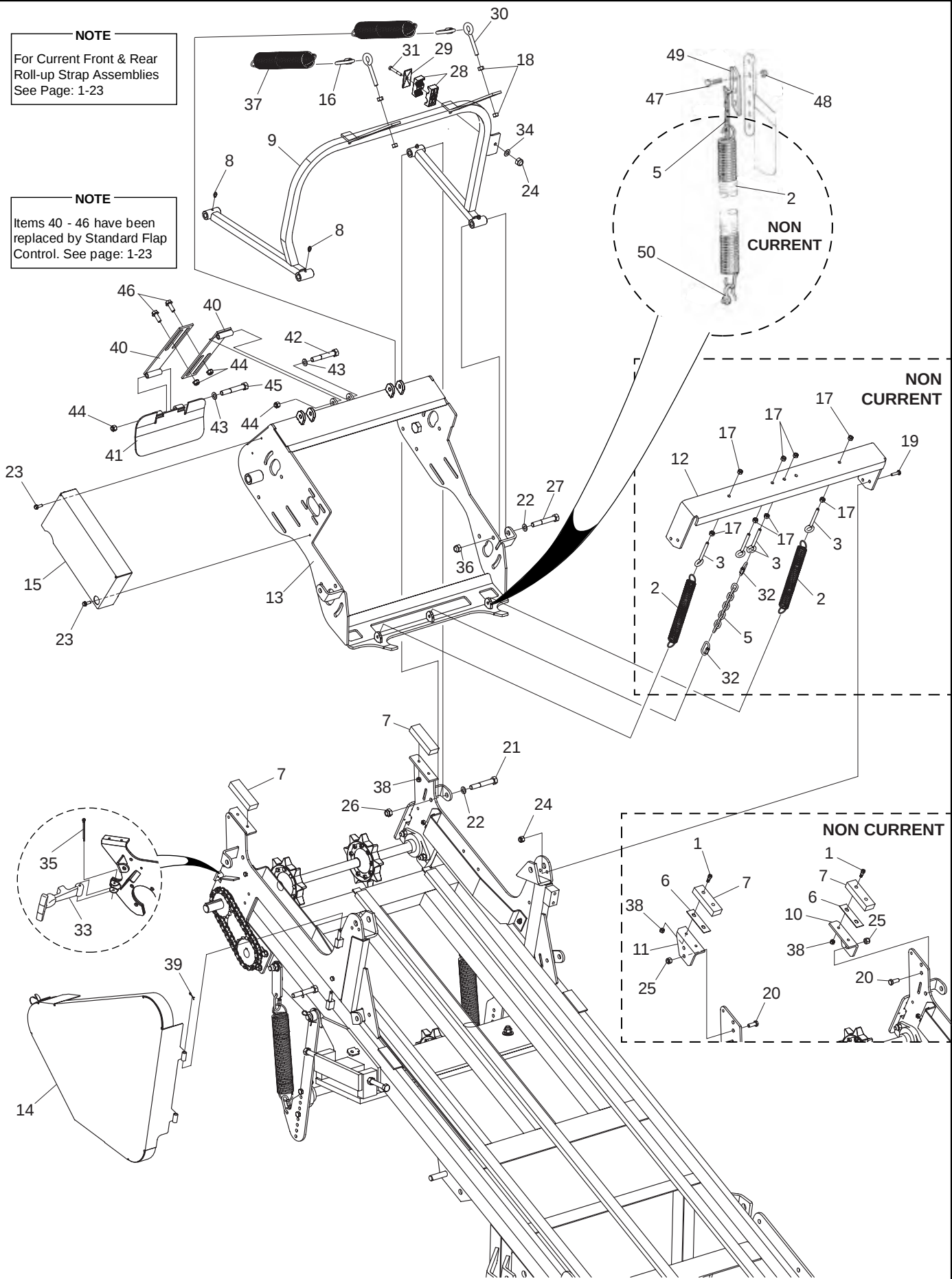
ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ROLL-UP CONVEYOR DRIVE			
40	R100621	Roll-Up Sprocket	1
41	R100622	Roll-Up Sprocket Plate	1
42	R100623	Roll-Up Sprocket Hub	1
43	F040416	Bolt 1/4 unc x 1 3/4 Gr.8	5
44	F210400	Nut 1/4 unc Nyloc	5
45	KH30088	Conveyor Motor with Speed Sensor - Current from Serial # 424	1
	KH30007	Motor - Conveyor Drive - Non Current up to Serial # 423	1
46	Q8432	Chain - 34 1/4 in.	1
47	KD41810	Conveyor Drive Sprocket - 18 Tooth	1
48	KD42110	Sprocket - 21 Tooth	1
49	F320608	Flatwasher 3/8 Gr.8	4
50	F330808	Flatwasher 1/2	3
51	R100516	Tooth Count Plate - Non Current	1
52	F310600	Lockwasher 3/8	1
53	KH30089	Speed Sensor - Current from Serial # 424	1
54	R102031	Conveyor Motor Sensor Guard - Current from Serial # 431	1
	R102028	Conveyor Motor Sensor Guard - Non Current up to Serial # 424-430	1
55	F040506	Bolt 5/16 unc x 3/4 Gr.8 - Current from Serial # 431	2
56	F310500	Lockwasher 5/16 - Current from Serial # 431	2
57	F330500	Washer 5/16 sae - Current from Serial # 431	2
NOTE Item 1 is Non Current and is replaced by Roll-Up Sprocket Assembly R500068 which include Items 40, 41, 42, 43 & 44.			

NOTE

For Current Front & Rear
Roll-up Strap Assemblies
See Page: 1-23

NOTE

Items 40 - 46 have been
replaced by Standard Flap
Control. See page: 1-23



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ROLL-UP CONVEYOR MOUNTING			
1	F500503	Shoulder Bolt - 5/16 x 3/8 - Non Current	4
2	KS20002	Spring - Non Current (001279 - Spring. Scraper Blade - Non Current)	2
3	002102	Eyebolt. Starter Tray - Non Current	4
5	H101281	Chain - Non Current (Q8402 - Chain. Starter Gate - Non Current)	1
6	016961	Shim - 26 FA x 1 x 3 1/2 - Non Current	2
7	H101484	Bumper - Current	2
	05-041	Bumper - Non Current	2
8	KM11400	Grease Fitting 1/4	4
9	R300034	Roll-Up Tray Reinf. Brkt. - 16 in.	1
	4129625	Roll-Up Tray Reinf. Brkt. - 24 in.	1
10	4129779	Angle. Roll-Up - Non Current	1
11	4129787	Angle. Roll-Up - Non Current	1
12	R300148	S-Bar - 24 in.	1
	4133690	S-Bar - 24 in. - Obsolete	1
	R300147	S-Bar - 16 in.	1
	R100258	S-Bar - 16 in. - Obsolete	1
13	R300154	Roll-Up Tray - 24 in.	1
	4133869	Roll-Up Tray - 24 in. - Non Current	1
	R300153	Roll-Up Tray - 16 in.	1
	R300033	Roll-Up Tray - 16 in. - Non Current	1
14	R500424	Roll-Up Chain Guard - Large Sprocket - Current	1
	R300060	Roll-Up Chain Guard - Non Current	1
15	R500427	Roll-Up Guard	1
16	4134811	Quick Link 5/16 - Non Current	1
17	F230558	Nut 5/8 unc - Non Current	8
18	F230608	Nut 3/8 unc - Non Current	2
19	F040510	Bolt 5/16 unc x 1 Gr.8	4
20	F040610	Bolt 3/8 unc x 1 Gr.8 - Non Current	4
21	F040832	Bolt 1/2 unc x 3 1/4 Gr.8	2
22	F330800	Washer 1/2	4
23	F840410	Bolt 1/4 x 1 Flanged	3
24	F210508	Locknut 5/16 unc	5
25	F210608	Locknut 3/8 unc - Non Current	4
26	F210808	Locknut 1/2 unc	4
27	F040830	Bolt 1/2 unc x 3 Gr.8	2
28	KH65006	Clamp 0.75 mm Double	2
29	KH63004	Cover Plate Hose Clamp	1
30	F050644	Eye Bolt - Non Current	1
31	F040524	Bolt 5/16 unc x 1 1/2	1
32	G8084	Quick Link 3/16 - Non Current	2
33	KM99035	Handle Rubber Hood Latch	1
34	F330500	Washer 5/16	1
35	F910624	Cotter Pin 3/16 x 2 1/2	1
36	F270800	Lock Jam Nut 1/2 unf	1
37	S2003	Spring. Extension - Non Current	1
38	F210408	Nut 1/4 - Wlf.	4
39	F910112	Cotter - Hairpin - Non Current	2

NOTE

For Current Front & Rear
Roll-up Strap Assemblies
See page: 1-23

NOTE

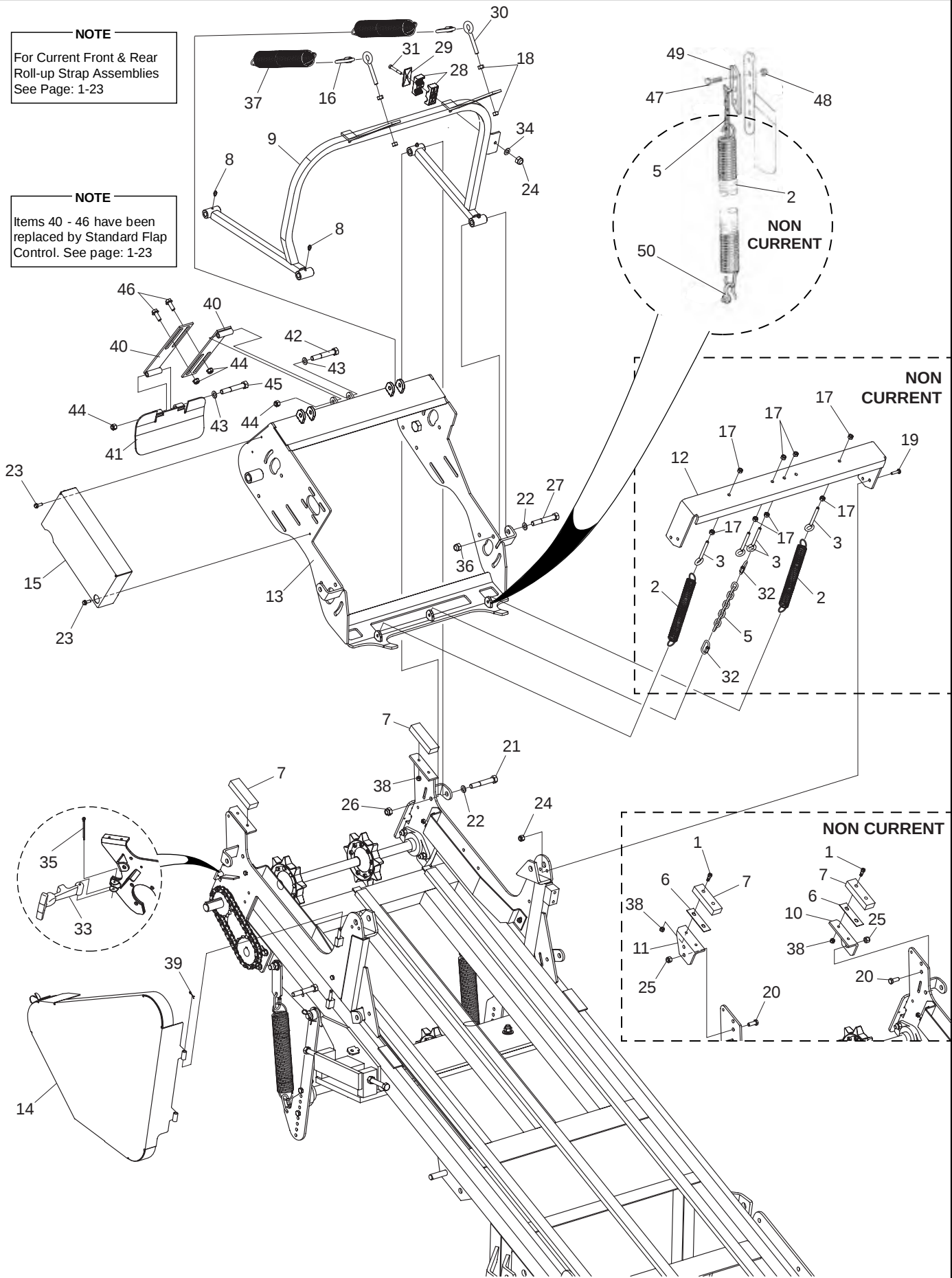
Items 40 - 46 have been
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Control. See page: 1-23

NOTE

For Current Front & Rear
Roll-up Strap Assemblies
See Page: 1-23

NOTE

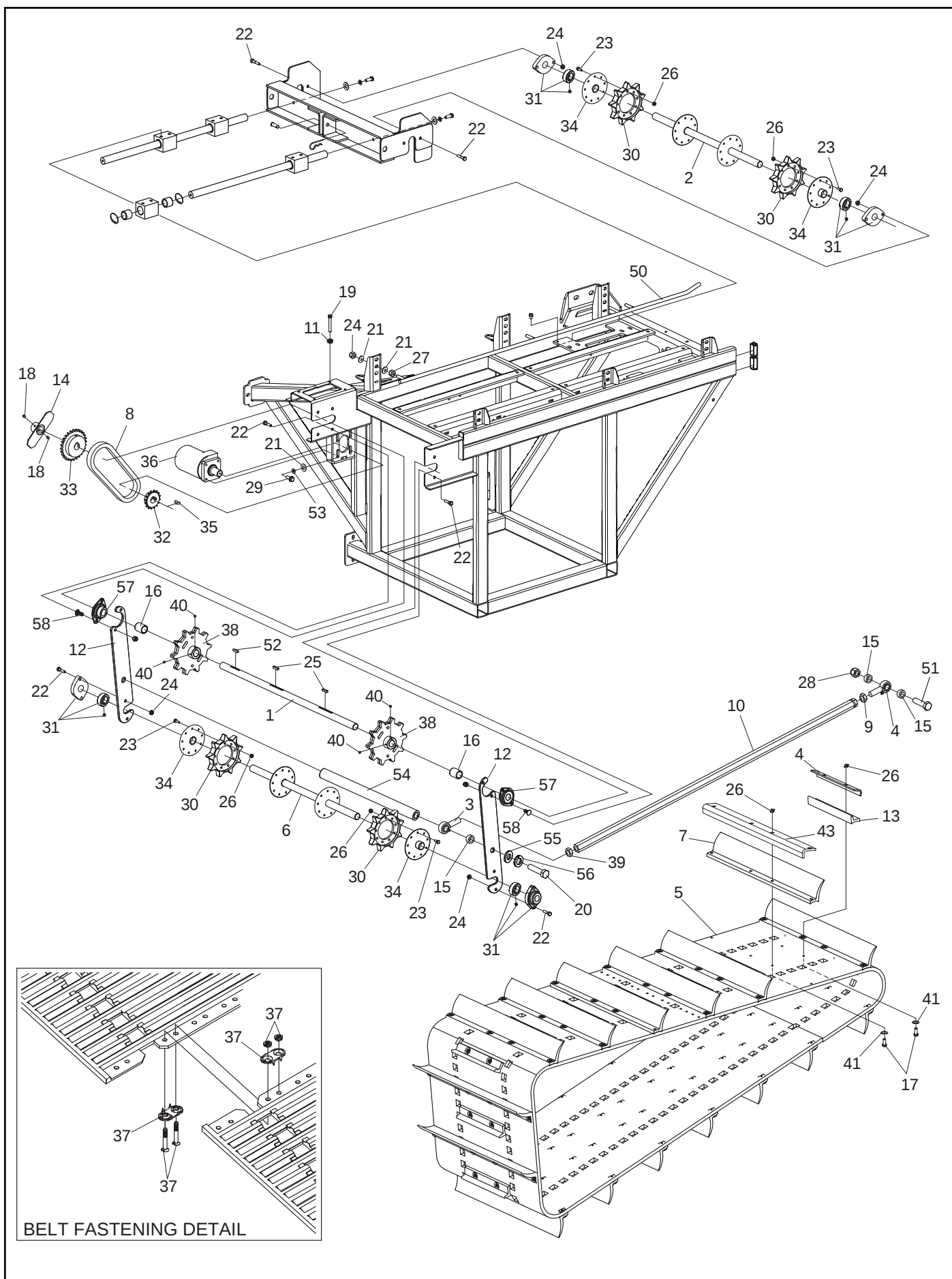
Items 40 - 46 have been
replaced by Standard Flap
Control. See page: 1-23



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ROLL-UP CONVEYOR MOUNTING			
40	4136095	Bracket. End of Roll - Non Current	2
41	4136092	Flap. End of Roll - Non Current	1
42	F040632	Bolt 3/8 unc x 3 1/4 Gr.8 - Non Current	1
43	F320608	Washer 3/8 - Non Current	2
44	F210608	Locknut 3/8 unc - Non Current	4
45	F040650	Bolt 3/8 unc x 5 Gr.8 - Non Current	1
46	F850610	Bolt 3/8 x 1. Flanged - Non Current	2
47	F040510	Bolt 5/16 unc x 1 Gr.8	2
48	F210500	Locknut 5/16 unc	2
49	H301069	Spring Hook	1
50	KC01002	Shackle - Non Current	1

NOTE

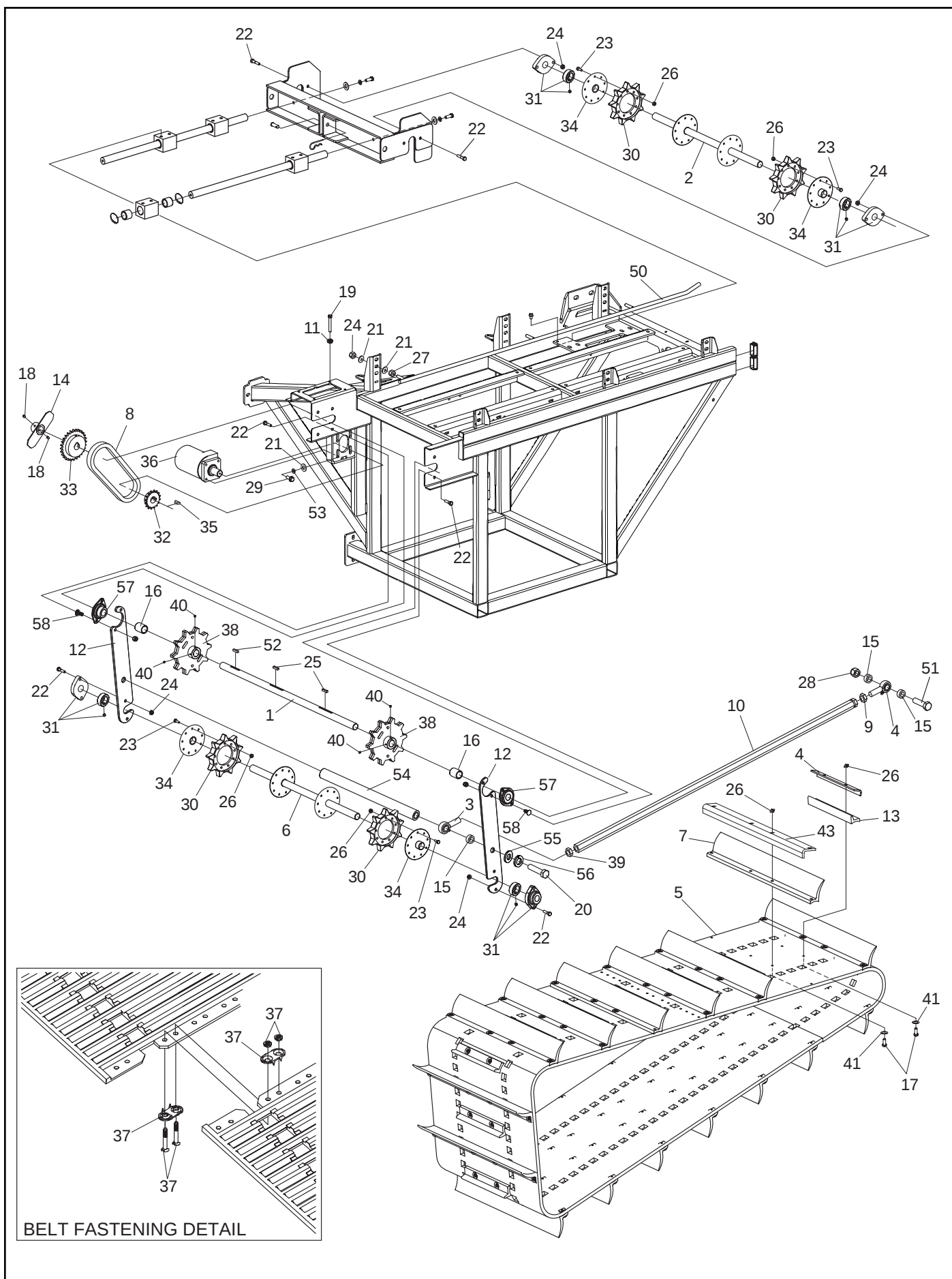
Items 40 - 46 have been
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Control. See page: 1-23



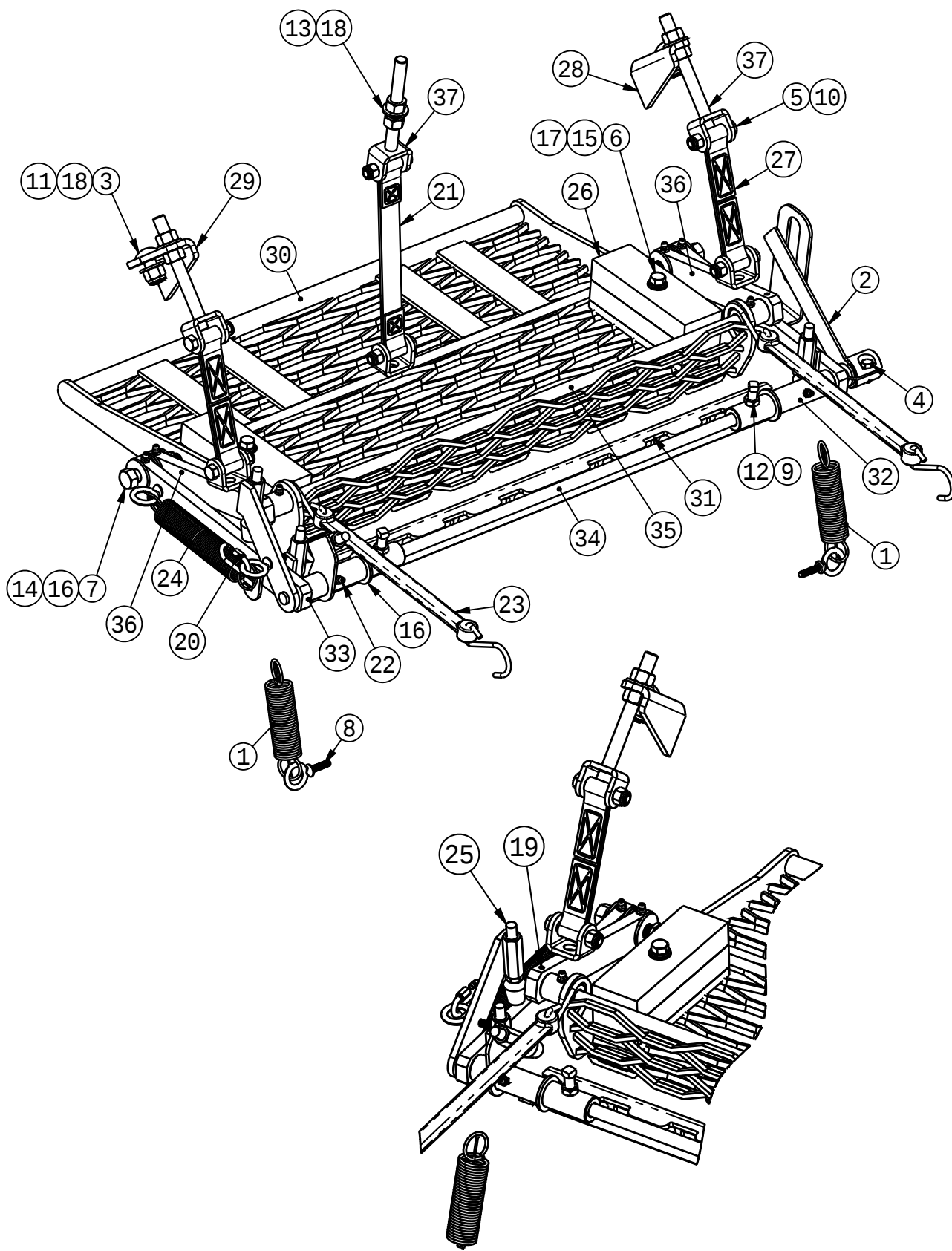
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE INDEX CONVEYOR DRIVE	
1	4137005	Shaft. Index Conveyor Drive - 24 inch	1
	R100451	Shaft. Index Conveyor Drive - 16 inch	1
2	4136960	Front Idler - 24 in.	1
	R300057	Front Idler - 16 in.	1
3	CM00121	Rod End 3/4 in.	2
4	CM00122	Rod End 3/4 in. L.H.	2
5	4129322	Belt. 24 in. - Index Conveyor	1
	R100739	Belt. 16 in. - Index Conveyor	1
6	4136926	Rear Idler - 24 in.	1
	R300058	Rear Idler - 16 in.	1
7	B100310	Cleats - Current from Serial no. 266	16
	4131919	Cleats - 24 inch - Non Current up to Serial no. 265	16
	R100898	Cleats - 16 inch - Non Current up to Serial no. 265	16
8	4131924	Chain. Index Conveyor	1
9	F221218	Jam Nut 3/4 L.H.	2
10	R100446	Linkage - Tie	2
11	F440600	Nut 3/8 unc Flange	2
12	R101307	Tension Arm Idler - Current	2
	4133218	Tension Arm Idler - Obsolete	2
13	4133515	Cleats	16
14	4134059	Sensor Flag	1
15	4134399	Spacer	6
16	4134452	Bearing Sleeve - 1 1/2 in. - Non Current up to Serial No. 180	2
	4128942	Bearing Sleeve - 1 in. - Current from Serial No. 181	2
17	F040414	Bolt 1/4 unc x 1 1/2 Gr.8	80
18	F040503	Set Screw 5/16 x 3/8	2
19	F030620	Bolt 3/8 unc x 2 Full Thread	1
20	F041224	Bolt 3/4 unc x 2 1/2 Gr.8	2
21	F320600	Washer 3/8	16
22	F040614	Bolt 3/8 unc x 1 1/2 Gr.8	8
23	F040410	Bolt 1/4 unc x 1 Gr.8	36
24	F210608	Nut 3/8 unc Nyloc	12
25	F924420	Key 1/4 x 1/4 x 2	2
26	F210408	Locknut 1/4 unc	116
27	F230608	Nut 3/8 unc Gr.8 Hex (Only used on 16in.)	6
28	F211258	Locknut 3/4 unc	2
29	F040610	Bolt 3/8 unc x 1 Gr.8	4
30	KD20001	Gear	4
31	B0121	Bearing 1 in. 2 Bolt Flange	4
32	KD71510	Sprocket #40 x 15 Tooth	1
33	KD72810	Sprocket #40 x 28 Tooth	1
34	A100761	Sprocket Clamp Plate	4
35	G8019	Key. Woodruff 1/4 in. x 1 in.	1
36	KH30007	Motor	1
37	G8008	Mat Splicer (Qty:7x for 24 in. Qty: 4x for 16 in.)	A/R
38	4135600	Sprocket. 10 Tooth	2
39	F221250	Jam Nut 3/4 unc	2
40	F140403	Set Screw 1/4 x 3/8	4
41	F330408	Washer 1/4 sae Gr.8	80

NOTE 1
16 inch Index Conveyor
Belt Assembly R500057 &
24 inch Index Conveyor
Belt Assembly R500289
includes items; 5, 7, 13,
37, 41, 42, 43 & 44.

NOTE 2
Items 12, 24, 57 & 58 are
available as -
Tension Idler Arm
Assembly - R500196.



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE INDEX CONVEYOR DRIVE			
43	B100309	Metal Strip - Cleat - Current from Serial no. 266	16
	4140214	Metal Strip - Cleat - 24 inch - Non Current up to Serial no. 265	16
	R100897	Metal Strip - Cleat - 16 inch - Non Current up to Serial no. 265	16
44	4140215	Metal Strip - Cleat	16
50	R300062	Sod Guide - 24 in.	2
	R300061	Sod Guide - 16 in.	2
51	F040616	Bolt 3/8 unc x 1 3/4 Gr.8	4
52	F924412	Key 1/4 x 1/4 x 1 1/4	1
53	F310608	Lockwasher 3/8 Gr.8	4
54	R101132	Idler Arm Tie Bar - 24 in.	1
	R101131	Idler Arm Tie Bar - 16 in.	1
55	F331208	Washer 3/4 sae Gr.8	2
56	F311200	Lockwasher 3/4	2
57	KB34016	Pressed Steel Flange Bearing Two Bolt - 1 in. Dia. - Current	2
58	F020610	Carriage Bolt 3/8 unc x 1 - Current	4
NOTE 2 Items 12, 24, 57 & 58 are available as - Tension Idler Arm Assembly - R500196.			



**Brouwer RoboMax JD Sod Harvester
14.5" LG Mesh Starter Tray - 16 & 24 IN.**

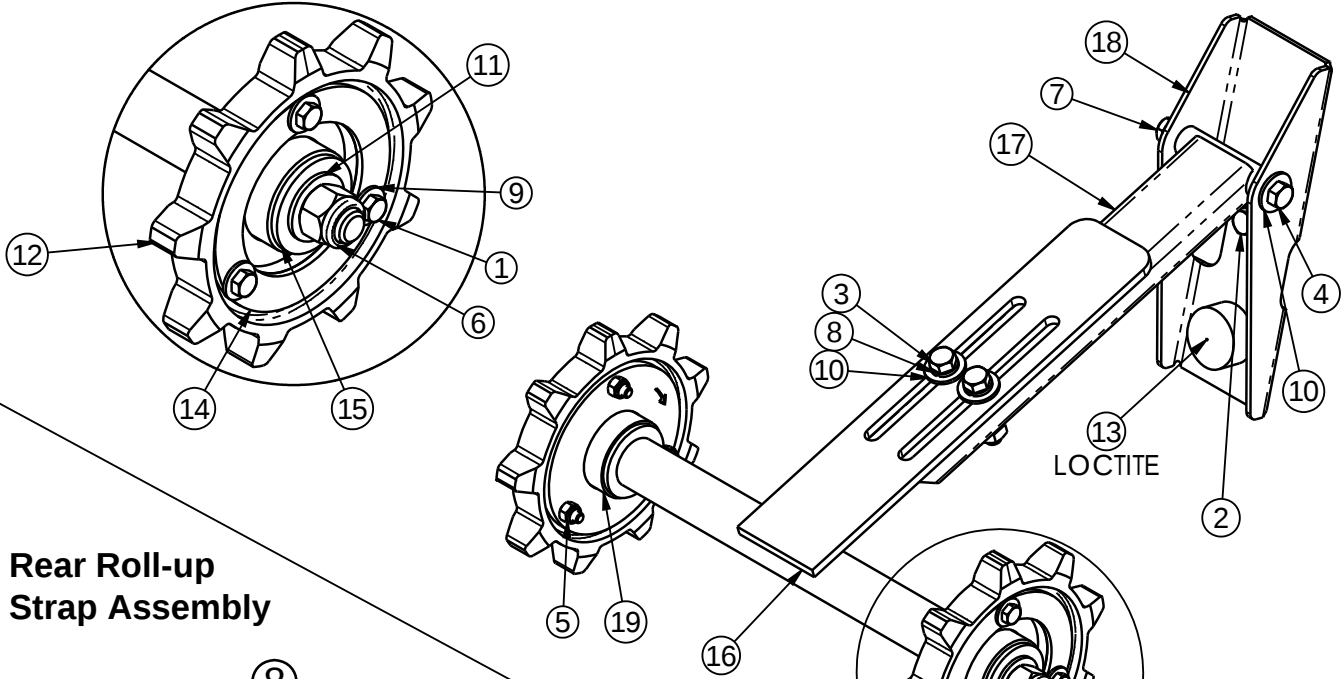
R500152 - 24 IN. - 14.5" LG Mesh Starter Tray Assembly

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

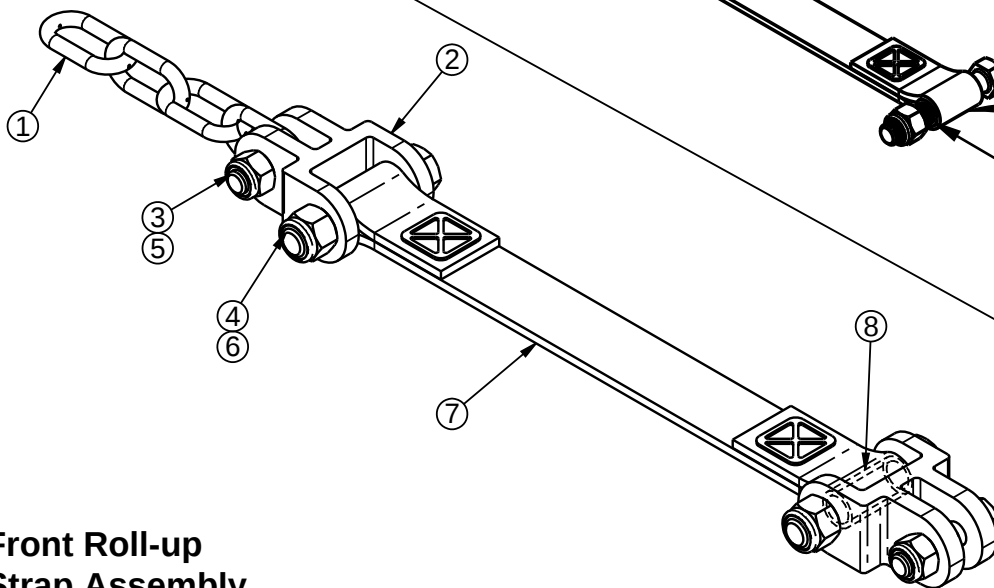
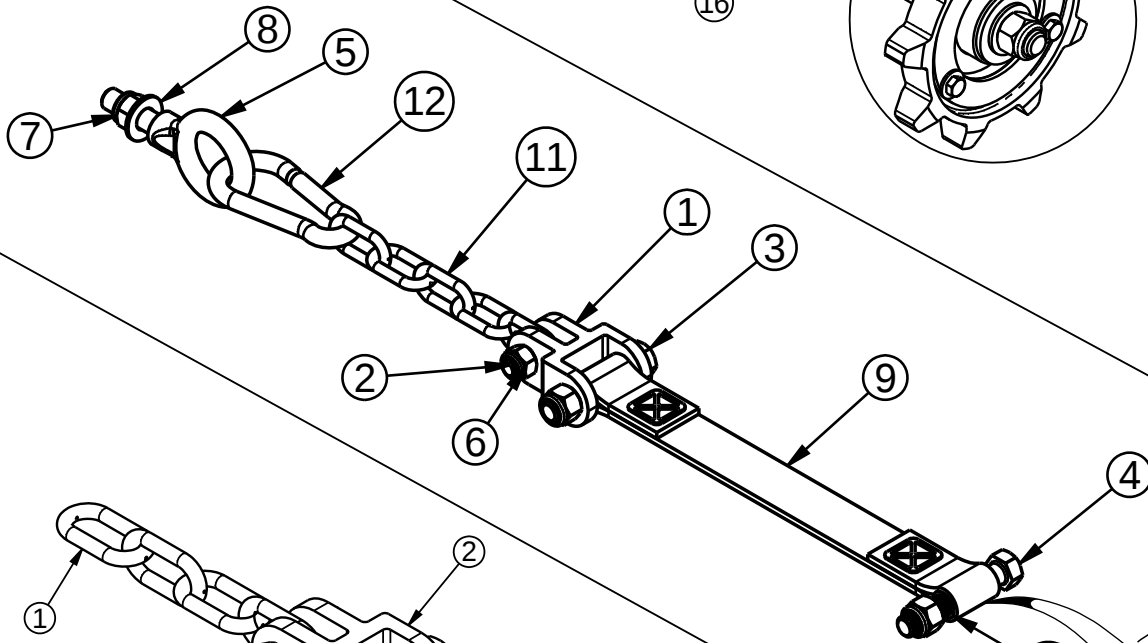
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001279	2	SPRING, SCRAPER BLADE
2	4139958	1	ROLLUP FLAG W/A
3	F020812	2	CARRIAGE BOLT 1/2 UNC x 1.1/4 LG
4	F040406	1	BOLT 1/4 UNC x 3/4 Gr 8
5	F040620	6	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
6	F040624	2	HEX BOLT 3/8-16UNC x 2-1/2 LG.
7	F040824	2	BOLT - 1/2 UNC X 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 309
28	R102004	1	MESH TRAY STRAP ADAPTER - LH
29	R102005	1	MESH TRAY STRAP ADAPTER - 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 309
	R300187	1	MESH TRAY W/A LH - NON CURRENT UP TO S/N 308
	R300188	1	MESH TRAY W/A RH - NON CURRENT UP TO S/N 308
37	R300366	3	CONVEYOR SUSPENDER ADJUSTER MESH TRAY - CURRENT FROM S/N 309

DETAIL A

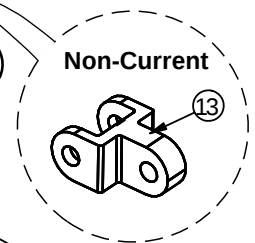
Standard Flap Control



Rear Roll-up Strap Assembly



Front Roll-up Strap Assembly



Brouwer RoboMax JD Sod Harvester

Standard Flap Control & Roll-up Strap Assemblies

Standard Flap Control Assembly - R500224

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	F040412	6	HEX BOLT - 1/4 -20 UNC x 1-1/4 GR 8
2	F040610	1	BOLT - 3/8 UNC x 1.0 Gr 8
3	F040620	2	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
4	F040636	1	BOLT - 3/8 UNC x 3 3/4 Gr 8
5	F210408	6	1/4-20 UNC NYLOC NUT GR 8
6	F211008	2	NUT-5/8 UNC NYLOC Gr 8
7	F220608	1	NUT - 3/8 UNC JAM Gr 8
8	F310608	3	WASHER - 3/8 LOCK Gr 8
9	F320408	6	WASHER - 1/4 Gr 8
10	F320608	3	WASHER - 3/8 Gr 8
11	F321008	2	WASHER - 5/8 Gr 8
12	KD20001	2	CONVEYOR SPROCKET
13	KS60007	1	RUBBER BUMPER - 1.50 x 0.81 x 3/8 THREAD
14	R101408	2	WHEEL RING
15	R101421	4	END WASHER
16	R300264	1	FLAP WHEEL AXLE W/A
17	R300265	1	SWING ARM W/A
18	R300273	1	ARM MOUNT W/A
19	R500223	2	CLUTCH HUB ASSEMBLY

Rear Roll-up Strap Assembly - B500288 (B500234 - Non Current)

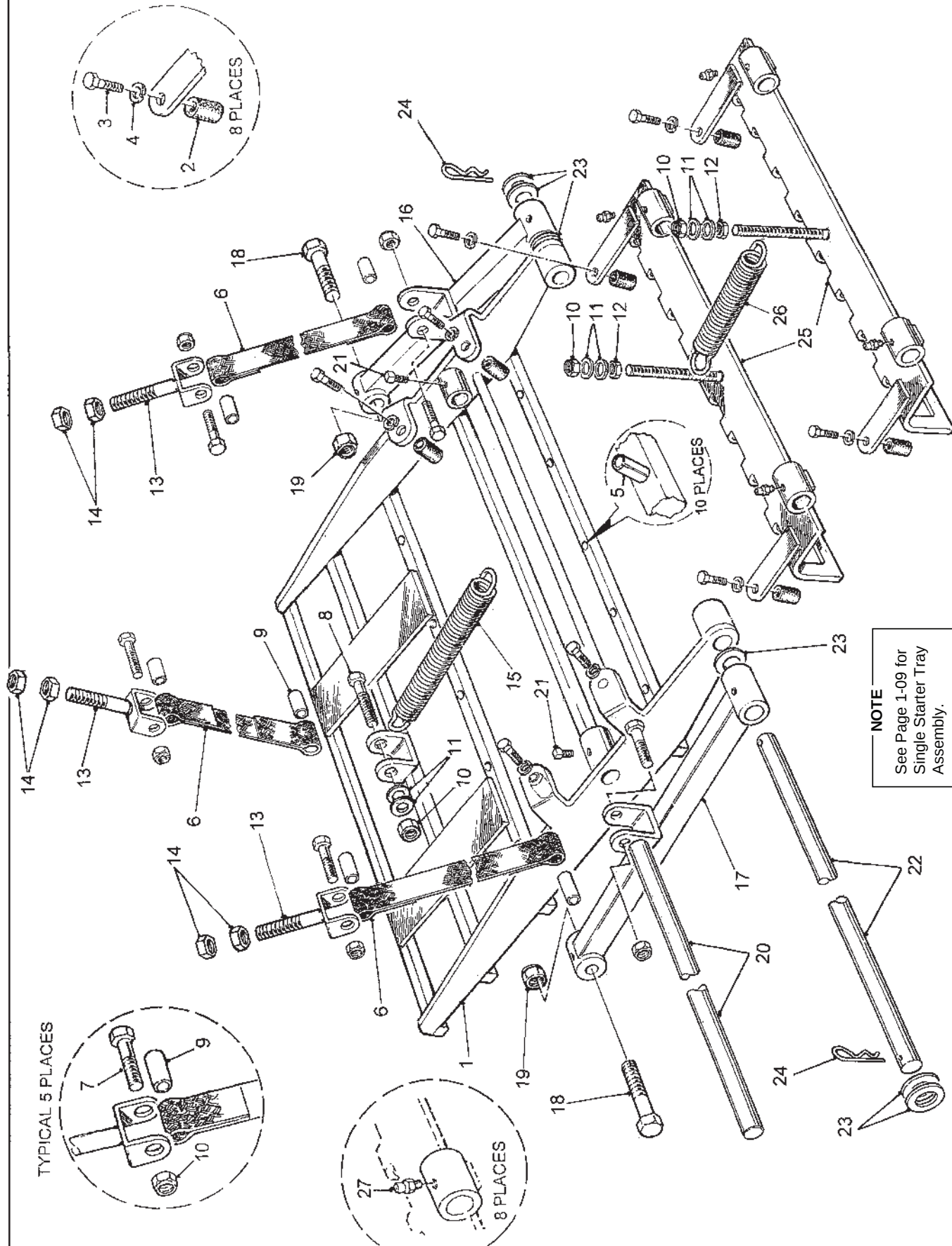
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	B101477	1	STRAP MOUNT DOUBLE CLEVIS
2	F040512	1	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8
3	F040620	1	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
	F040512	1	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8 - NON CURRENT
4	F040622	1	BOLT - 3/8 UNC x 2 1/4 Gr 8
5	F050614	1	MACHINERY EYE BOLT 3/8
6	F210500	1	NUT-5/16 UNC NYLOC
7	F210600	3	HEX LOCK NUT - 3/8 -16 UNC
8	F330600	1	FLAT WASHER SAE 3/8
9	H101032	1	STARTER HANGER STRAP
10	H101260	2	SLEEVE 1 IN. STRAP
11	H101281	1	CHAIN 3/16 - 5 LINKS
	H101280	1	CHAIN 3/16 - 3 LINKS - NON CURRENT
12	KC01035	1	FIREMAN SNAP 5/16 (8 mm)
13	B101478	1	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

Front Roll-up Strap Assembly - B500233

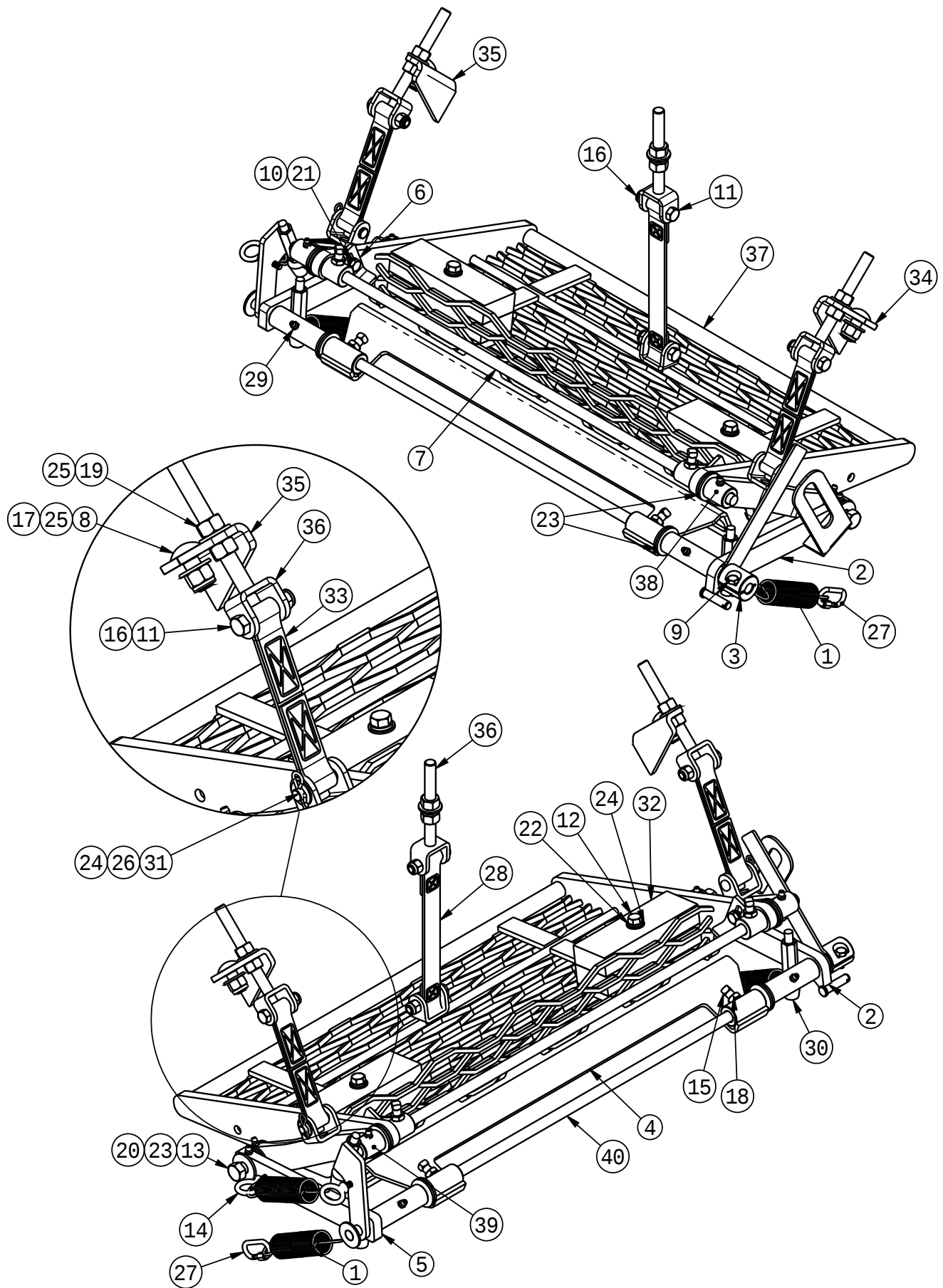
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	505276	1	HEIGHT CHAIN
2	B101477	2	STRAP MOUNT DOUBLE CLEVIS
3	F040512	2	BOLT - 5/16 -18 UNC x 1 1/4 Gr 8
4	F040620	2	BOLT - HEX HD 3/8-16 UNC x 2.00 LG. GR 8
5	F210500	2	NUT-5/16 UNC NYLOC
6	F210600	2	HEX LOCK NUT - 3/8 -16 UNC
7	H101032	1	STARTER HANGER STRAP
8	H101260	2	SLEEVE 1 IN. STRAP

H500076 - DOUBLE STARTER GATE ASSY. 16 & 18 in.
H500206 - DOUBLE STARTER GATE ASSY. 24 in.



NOTE
See Page 1-09 for
Single Starter Tray
Assembly.

ITEM NO.	PART NO.	DESCRIPTION	QTY
		DOUBLE STARTER TRAY	
	H500076	Double Starter Gate Assembly. 16 & 18 in.	
	H500206	Double Starter Gate Assembly. 24 in.	
1	H301080	Double Starter Tray. 16 & 18in.	1
	H301188	Double Starter Tray. 24 in.	1
2	KS60003	Bumper	8
3	F040404	Bolt 1/4 UNC x 1/2 GR. 8	8
4	F310400	Lockwasher 1/4	8
5	F940312	Spring Pin	20
6	H101032	Hanger Strap	3
7	F040620	Bolt 3/8 UNC x 2 GR. 8	5
8	F040624	Bolt 3/8 UNC x 2 1/2 GR. 8	1
9	H101260	Sleeve - Hanger Strap	6
10	F210600	Locknut 3/8 UNC	12
11	F330600	Washer 3/8 SAE	6
12	F230600	Nut 3/8 UNC	4
13	H301027	Suspender Adjuster	3
14	F230800	Nut 1/2 UNC	6
15	KS20006	Spring Tension	1
16	H301081	Starter Tray Link - LH	1
17	H301082	Starter Tray Link - RH	1
18	F040824	Bolt 1/2 UNC x 2 1/2 GR. 8	2
19	F270800	Nut 1/2 UNC Nyloc Jam GR. 2	2
20	H101285	Shaft - Second Starter Gate. 16 & 18 in.	1
	H101606	Shaft - Second Starter Gate. 24 in.	1
21	F110606	Set Screw 3/8 UNC x 3/4 Sq. Hd. Cup Pt.	4
22	H101070	Shaft - Starter Gate. 16 & 18 in.	1
	H101194	Shaft - Starter Gate. 24 in.	1
23	F330800	Washer 1/2 SAE (See Note)	A/R
24	F940215	Hitch Pin	2
25	H301019	Starter Gate. 16 & 18 in.	2
	H301052	Starter Gate. 24 in.	2
26	KS20005	Spring Tension	1
27	KM11400	Grease Fitting	8
		NOTE R500104 - Kesmac 16 in. Double Starter Tray Retrofit Kit.	
		NOTE Fit one washer, Item 23, to the inside of the Link boss. Fit washers <u>as required</u> on the outside of the Link boss.	



**Brouwer RoboMax JD Sod Harvester
10" LG Mesh Starter Tray 16 & 24 IN.**

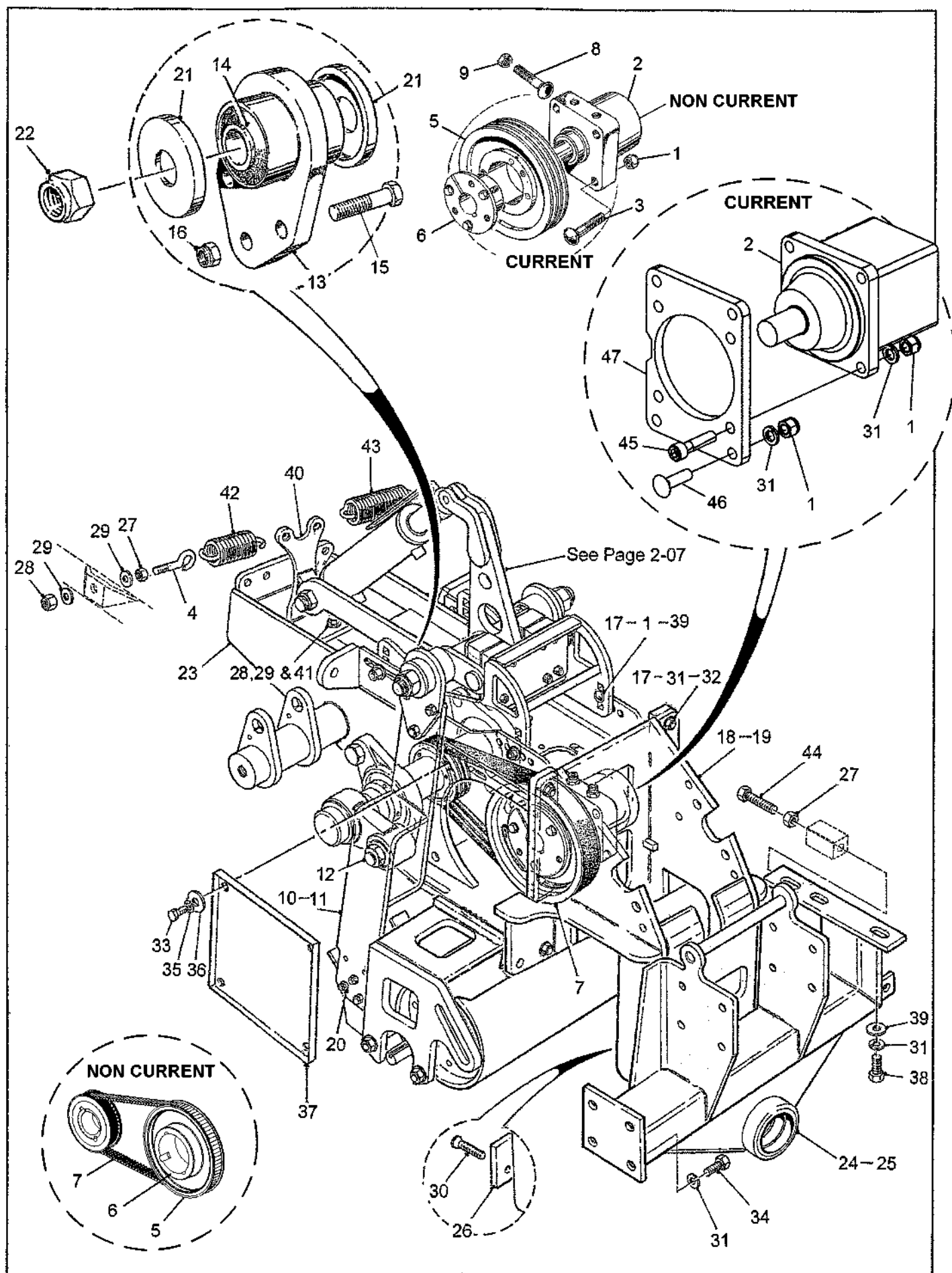
R500452 - 24 IN. - 10" LG Mesh Starter Tray Assembly

R500454 - 16 IN. - 10" LG Mesh Starter Tray Assembly

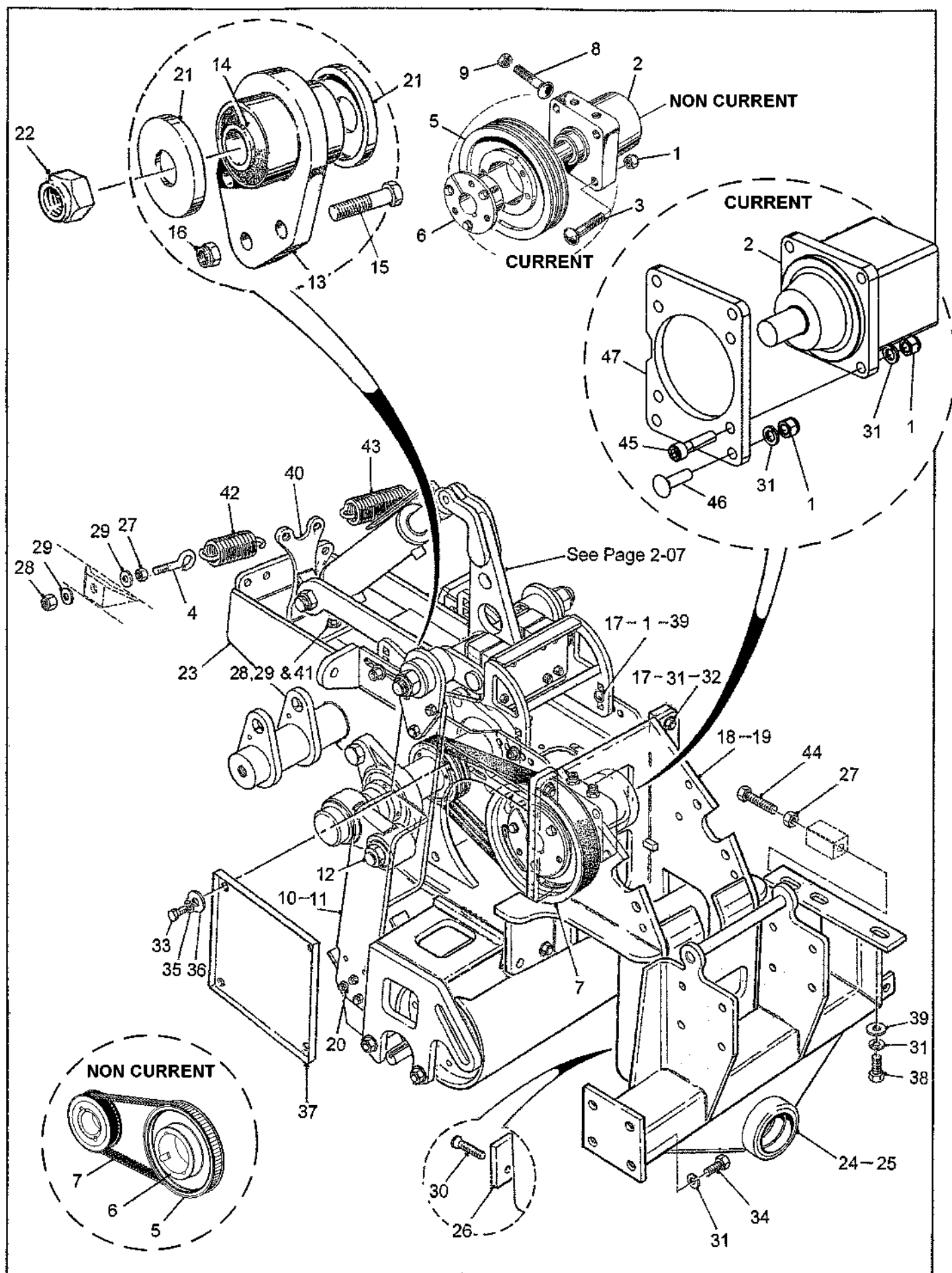
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	001279	3	SPRING, SCRAPER BLADE
2	4139946	1	LINK ARM W/A LH
3	4139958	1	ROLLUP FLAG W/A
4	6115826	1	STARTER GATE 24"
	6115825	1	STARTER GATE 16/18"
5	6115857	1	LINK ARM W/A RH
6	6115861	2	STARTER TRAY STOP
7	6115892	1	ROD, STARTER TRAY PIVOT 24"
	6115891	1	ROD, STARTER 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 CUTTING HEADS

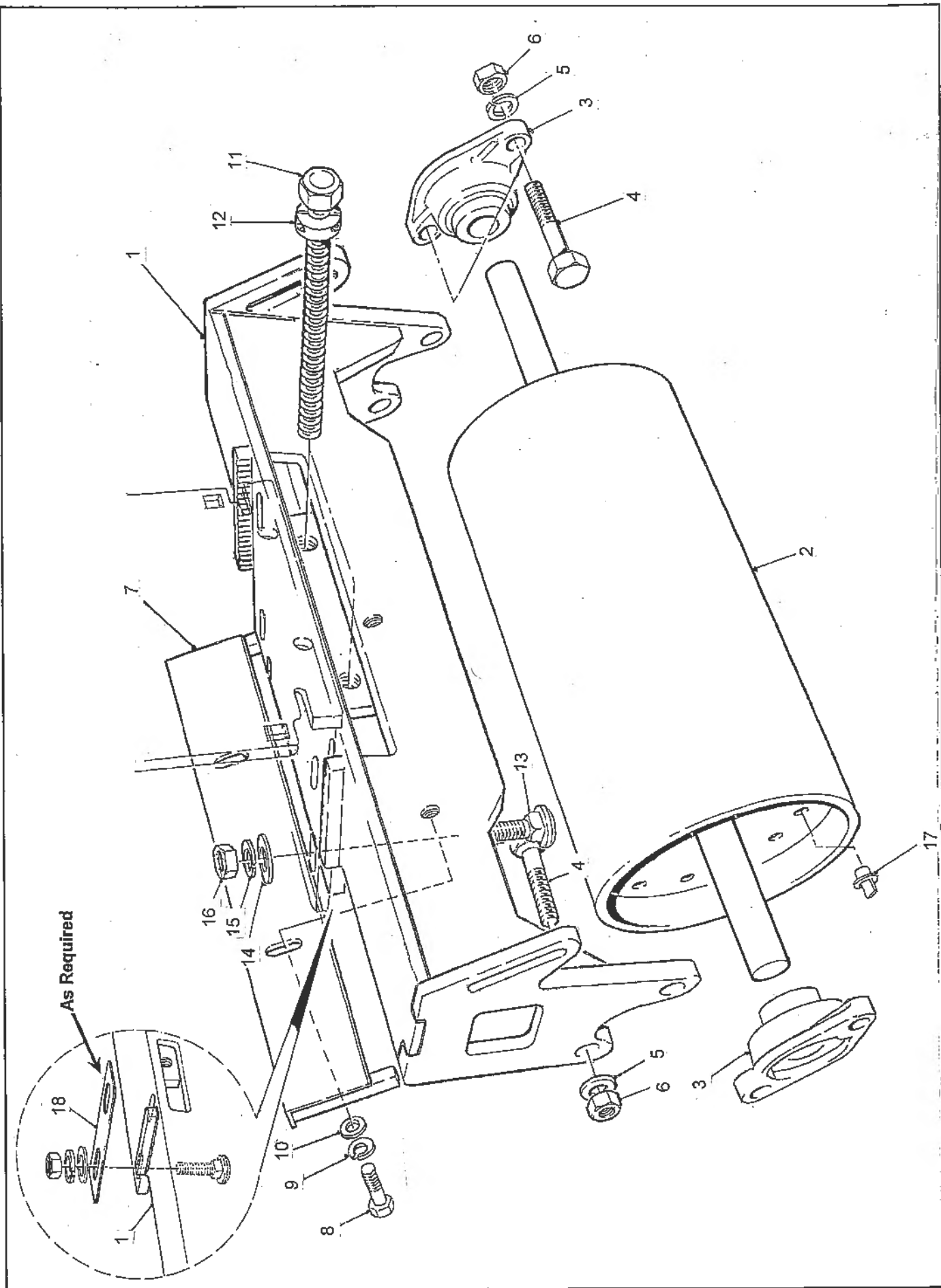
Cutting Head Assembly. Typical	2-01
Ground Roller Assembly	2-03
Cut-Off Drive Assembly	2-05
Depth & Pitch Adjustment Assembly	2-07
Cutter Head Pivoting	2-09
Eccentric Shaft & Connecting Rod Assembly	2-11
Cut-Off Lift Arm Assembly	2-15
Cutter Blades – Options	2-17
Brush Attachment – Option	2-19



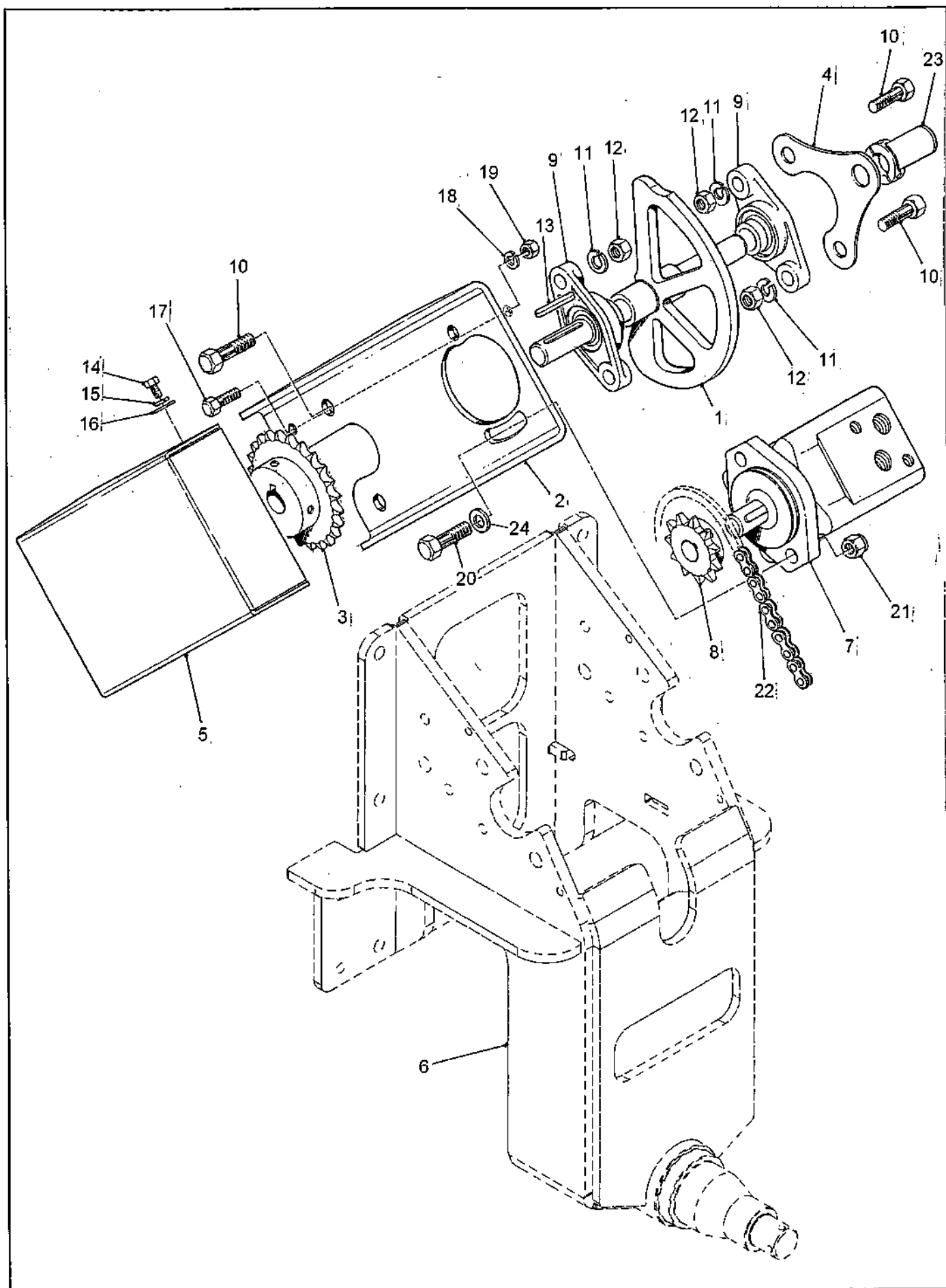
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE CUTTING HEAD ASSEMBLY	
1	F230800	Nut 1/2 unc	16
2	KH30056	Cutter Motor - Current from Serial No. 205	1
	21091	Cutter Motor - Non Current up to Serial No. 204	1
	KH70090	Seal Kit. Cutter Motor (for 21091 Cutter Motor)	1
3	F020824	Carriage Bolt 1/2 unc x 2 1/2 - Non Current up to Serial No. 204	4
4	F050620	Bolt 3/8 unc x 2 Bent Eye	2
5	KD33800	Sheave, Triple Groove, Taper Lock - Current	1
	KD22075	75 Tooth Sprocket - Motor Shaft - Non Current	1
6	B101437	Taper Lock Bushing - Current	1
	KD52010	Taper Lock Bushing - Non Current	1
7	KD62401	Drive Belt. Triple "V" Groove - Current	1
	KD61121	Cutter Motor Polychain Belt - Non Current	1
8	F020824	Carriage Bolt 1/2 unc x 2.50	1
9	F220800	Jam Nut 1/2 unc	1
10	H300200	Cutter Arm. LH. (10 in. Ground Roller - Long Option)	1
	H300242	Cutter Arm. LH. (10 in. Ground Roller - Short Option)	1
	H300246	Cutter Arm. LH. (10 in. Ground Roller - Reduced Pitch)	1
11	H300201	Cutter Arm. RH. (10 in. Ground Roller - Long Option)	1
	H300243	Cutter Arm. RH. (10 in. Ground Roller - Short Option)	1
	H300247	Cutter Arm. RH. (10 in. Ground Roller - Reduced Pitch)	1
12	H300055	Tie Bolt (Connecting Rod)	2
13	H500022	Cutter Arm - Top Pivot	2
14	KS50001	Isolator - Cutter Arm	2
15	F080714	Bolt 7/16 unf x 1 1/2 Gr.8	6
16	F210750	Locknut 7/16 unf	6
17	F020814	Carriage Bolt 1/2 unc x 1 1/2	10
18	H300178	Head Pivot & Cam Mount Bracket 16in.	1
19	H300179	Head Pivot & Cam Mount Bracket 24in	1
20	H500200	Cutting Blade Bolt Assembly	6
21	H100027	Bushing Spacer	4
22	F211650	Locknut 1 unf	1
23	H300261	Cutter Head Frame. 16 inch - Current from Serial No. 205	1
	H300262	Cutter Head Frame. 24 inch - Current from Serial No. 205	1
	H300176	Cutter Head Frame. 16 inch - Non Current up to Serial No. 204	1
	H300177	Cutter Head Frame. 24 inch - Non Current up to Serial No. 204	1
24	H301223	Pivoting Head Hub Frame 16in. - Current	1
	H301151	Pivoting Head Hub Frame 16in. - Non Current	1
25	H301167	Pivoting Head Hub Frame 24in	1
26	H100546	Blade Bumper.	1
27	F230600	Nut 3/8 unc	4
28	F210608	Locknut 3/8 unc Gr.8	3
29	F320608	Flatwasher 3/8 Gr.8	2
30	F120614	Bolt 3/8 unc x 1 1/2 FL HD SOC	1
31	F310808	Lockwasher 1/2 Gr.8	21
32	F230808	Nut 1/2 unc Gr.8	6
33	F040406	Bolt 1/4 unc x 3/4 Gr.8	3
34	F040810	Bolt 1/2 unc x 1 Gr.8	4
35	F310408	Lockwasher 1/4 Gr.8	3
36	F320408	Flatwasher 1/4 Gr.8	3



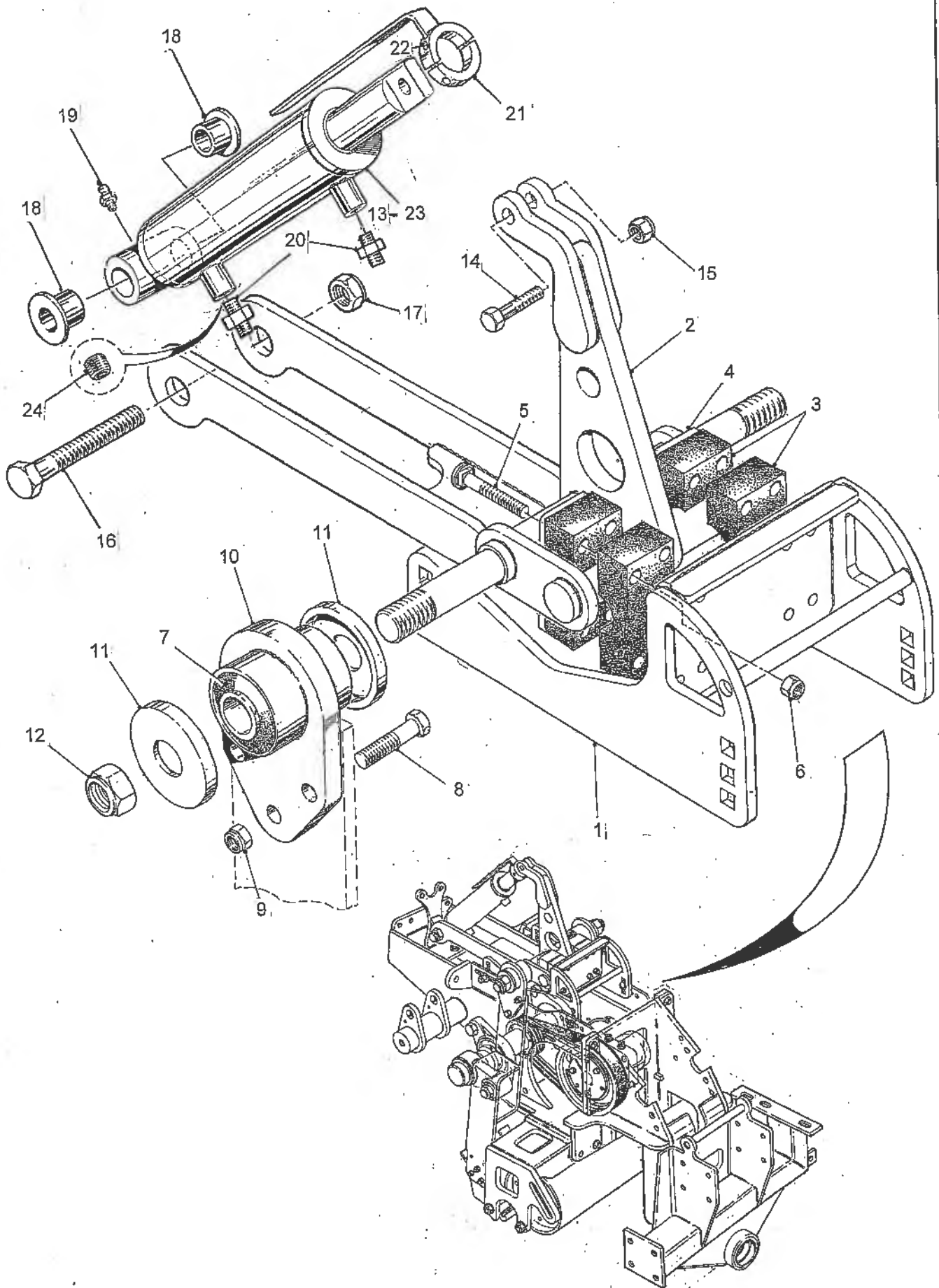
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE CUTTING HEAD ASSEMBLY	
37	H100197	Belt Guard	1
38	F040812	Bolt 1/2 unc x 1 1/4 Gr.8	3
39	F330808	Washer 1/2 in. Gr.8	10
40	H300192	Centering Spring Mount	1
41	F040610	Bolt 3/8 unc x 1 Gr.8	2
42	H100100	Cut-Off Spring RH	1
43	KS20004	Centering Spring LH	1
44	F040624	Bolt 3/8 unc x 2 1/2 Gr.8 Full Thread	1
45	F040820	Bolt 1/2 unc x 2 LG. - Current from Serial No. 205	4
46	F020820	Carriage Bolt 1/2 unc x 2 - Current from Serial No. 205	4
47	B100239	Cutter Motor Mount Plate - Current from Serial No. 205	1



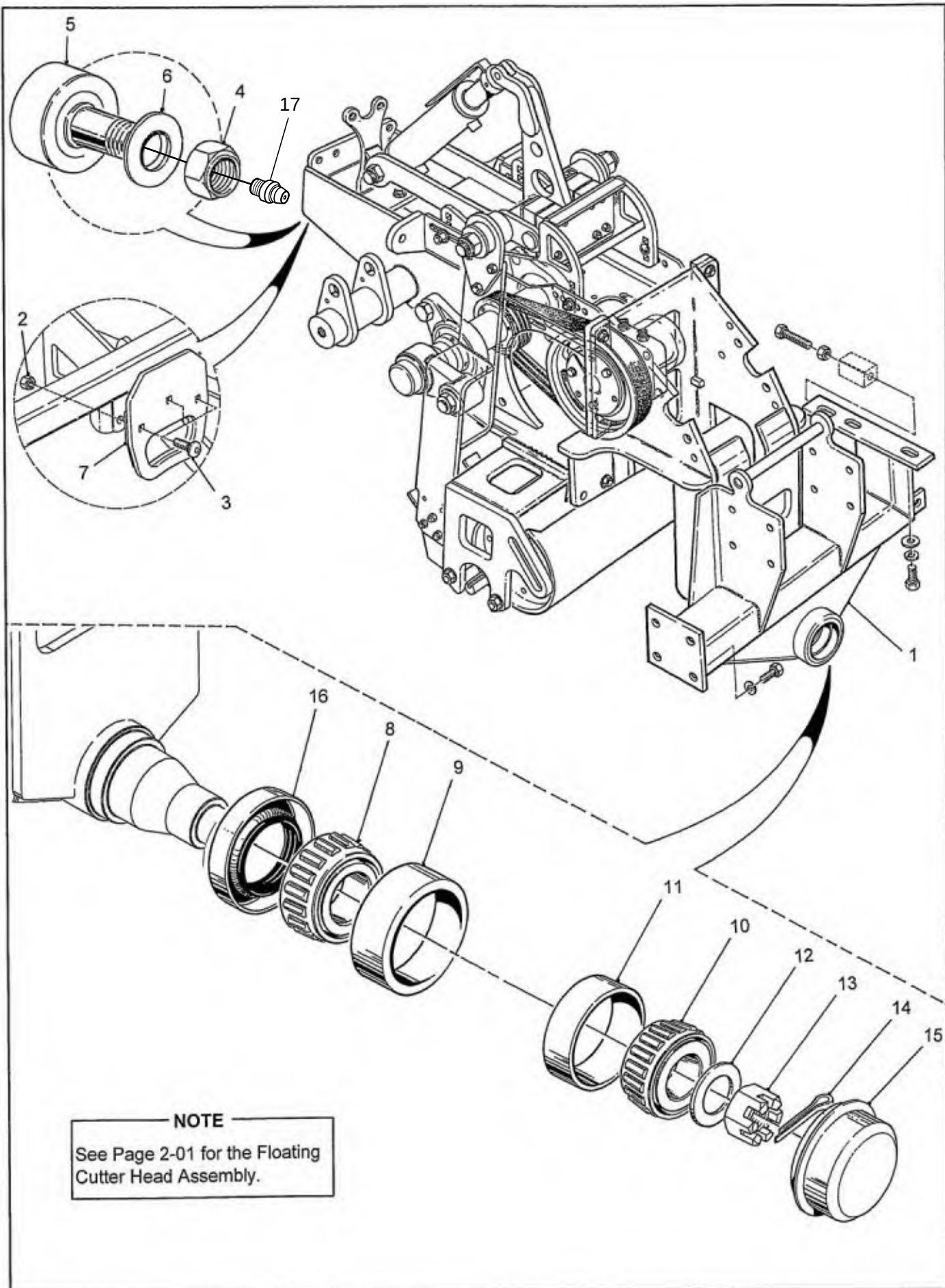
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE GROUND ROLLER ASSEMBLY	
1	H300170	Bracket - Ground Roller 16in.	1
	H300171	Bracket - Ground Roller 24in.	1
2	A300293	Ground Roller 16 in.	1
	A300300	Ground Roller 21 in.	1
	H300238	Ground Roller 23 in.	1
	A300295	Ground Roller 24 in.	1
3	KB32020	Flanged Bearing	2
4	F081016	Bolt 5/8 unf x 1 3/4 Gr.8	4
5	F311000	Lockwasher 5/8	4
6	F231050	Nut 5/8 unf	4
7	H300213	Boss Scraper 16 in.	1
	H300215	Boss Scraper 24 in.	1
8	F040610	Bolt 3/8 unc x 1 Gr.8	2
9	F320600	Washer 3/8	2
10	F310600	Lockwasher 3/8	2
11	H300029	Adjuster	2
12	KM10051	Lockcollar	2
13	F020820	Bolt 1/2 unc x 2 Carriage	4
14	F330808	Washer 1/2 S.A.E. Gr.8	4
15	F310800	Lockwasher 1/2	4
16	F230800	Nut 1/2 unc	4
17	KM30019	Plug	16
18	H100559	Shim. Ground Roller Bracket	A/R



ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE LIFT CAM & CUT-OFF DRIVE ASSEMBLY	
1	A300249	Lift Cam. 16 inch.	1
	A300258	Lift Cam. 24 inch.	1
2	A101120	Motor Mount	1
3	KD42210	Sprocket - 22 Tooth. #50 Chain	1
4	A101133	Proximity Sensor Mount	1
5	A101141	Motor Guard	1
6	H300178	Head Pivot & Cam Mount Bracket. 16 inch.	1
	H300179	Head Pivot & Cam Mount Bracket. 24 inch.	1
7	KH30027	Hydraulic Motor	1
	KH70091	Seal Kit. Hydraulic Motor	1
8	KD41210	Sprocket - 12 Tooth. #50 Chain	1
9	KB32016	Flanged Bearing	2
10	F081012	Bolt 5/8 unf x 1 1/4 Gr.8	4
11	F231050	Nut 5/8 unf	4
12	F311000	Lockwasher 5/8	4
13	F924420	Key 1/4 x 1/4 x 2	1
14	F040406	Bolt 1/4 unc x 3/4 Gr.8	4
15	F310400	Lockwasher 1/4	4
16	F320400	Flatwasher 1/4	4
17	F040614	Bolt 3/8 unc x 1 1/2 Gr.8	2
18	F310600	Lockwasher 3/8	2
19	F210600	Locknut 3/8 unc	2
20	F040816	Bolt 1/2 unc x 1 3/4 Gr.8	2
21	F210800	Locknut 1/2 unc	2
22	Q8432	Chain # 50. Kit c/w connecting link 10ft. (See note)	1
	KD41000	Connecting Link	1
23	A300208	Cut-Off Proximity Target	1
24	F330808	Washer 1/2 Gr.8	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE DEPTH ADJUSTER ASSEMBLY			
1	H300008	Pitch Adjuster Bracket. 16 inch (shown)	1
	H300032	Pitch Adjuster Bracket. 24 inch	1
2	H300007	Cutter Top Pivot. 16 inch (shown)	1
	H300033	Cutter Top Pivot. 24 inch	1
3	H100028	Bearing Set	2
4	H100029	Clamp Plate	2
5	F020640	Bolt 3/8 unc x 4 Carriage Lg.	8
6	F210600	Locknut 3/8 unc	8
7	KS50001	Isolator - Cutter Arm	2
8	F080714	Bolt 7/16 unf x 1 1/2 Gr.8	6
9	F210750	Locknut 7/16 unf	6
10	H500022	Cutter Arm - Top Pivot	2
11	H100027	Bushing Spacer	4
12	F211650	Locknut 1 unf	2
13	H500199	Cylinder - Depth Control Ass'y.	1
	KH70067	Seal Kit. Cylinder - Depth Control	1
14	F040820	Bolt 1/2 unc x 2 Gr.8	1
15	F210800	Locknut 1/2 unc	1
16	F041650	Bolt 1 x 5 unc GR. 8	1
17	F231600	Locknut 1 unc (Thin)	1
18	H100009	Bushing - Cylinder	2
19	KM11400	Grease Fitting	1
20	4-4-070120	Fitting - Straight Thread 'O' Ring Connector	2
21	H300028	Depth Indicator Pointer	1
22	F660406	Set Screws 1/2 UNC x 0.38 lg	1
23	H500001	Cylinder - Depth Control	1
24	H100129	Restrictor - Depth Control Cyl.	1



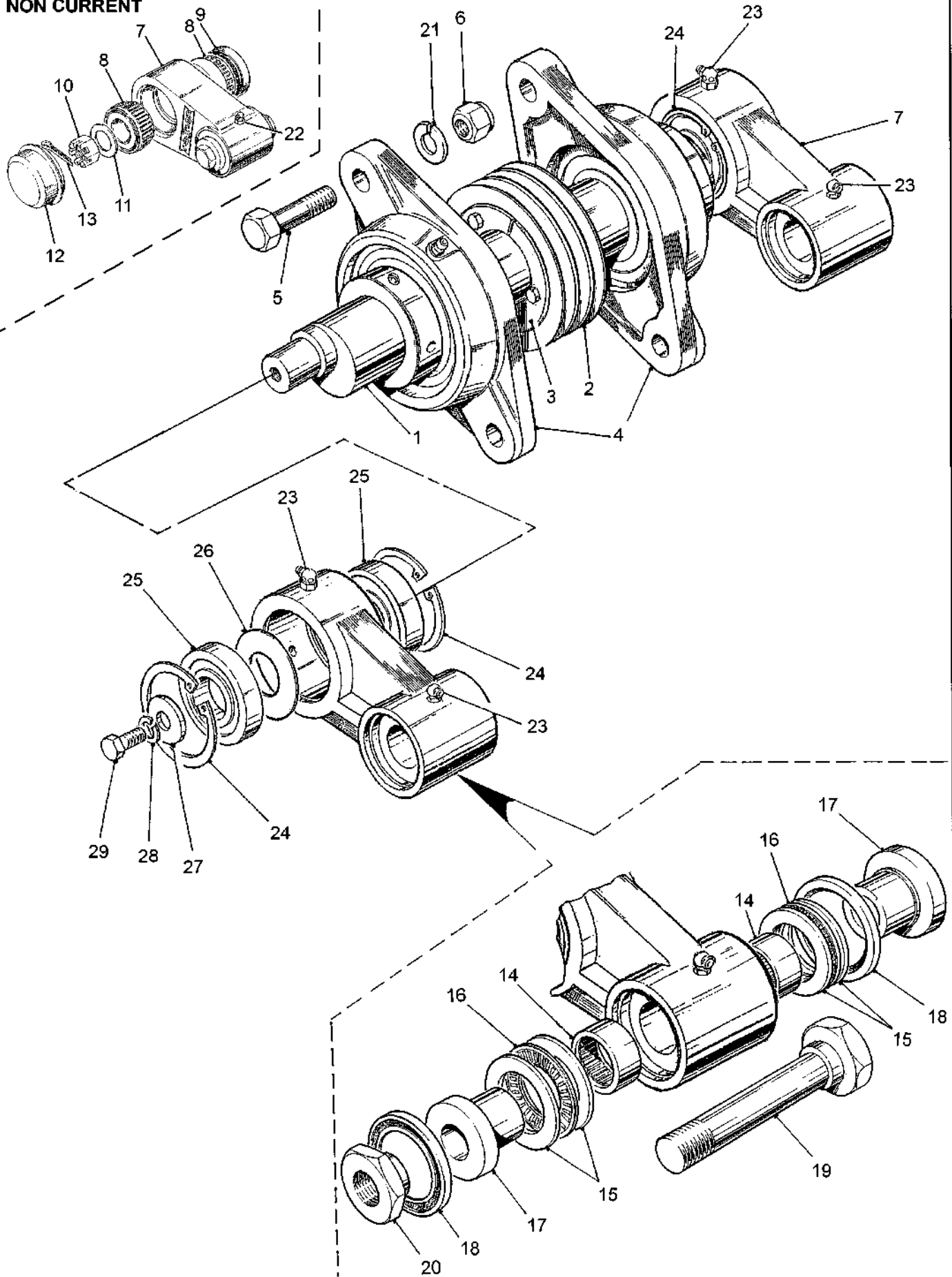
ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE CUTTER HEAD PIVOTING	
1	H301151	Pivoting Head Hub Frame 16 inch.	1
	H301167	Pivoting Head Hub Frame 24 inch.	1
2	F210800	Locknut 1/2 unc	3
3	F020814	Carriage Bolt 1/2 unc x 1 1/2	3
4	F211650	Locknut 1 unc	1
5	KB12136	Cam Follower 2.50 O.D.	1
6	F321600	Washer 1 in.	A/R
7	H301222	Cam Follower Plate	1
8	KX20016	Outer Cone. Taper Roller Bearing	1
9	KX20017	Outer Cup. Taper Roller Bearing	1
10	KX20018	Inner Cone. Taper Roller Bearing	1
11	KX20019	Inner Cup. Taper Roller Bearing	1
12	KX20008	Flatwasher 1 1/4	1
13	KX20002	Nut 1 1/4. Slotted	1
14	KX20003	Cotter Pin	1
15	KX20004	Dust Cap	1
16	KB90014	Seal	1
17	KM11302	Grease Fitting	1

NOTE

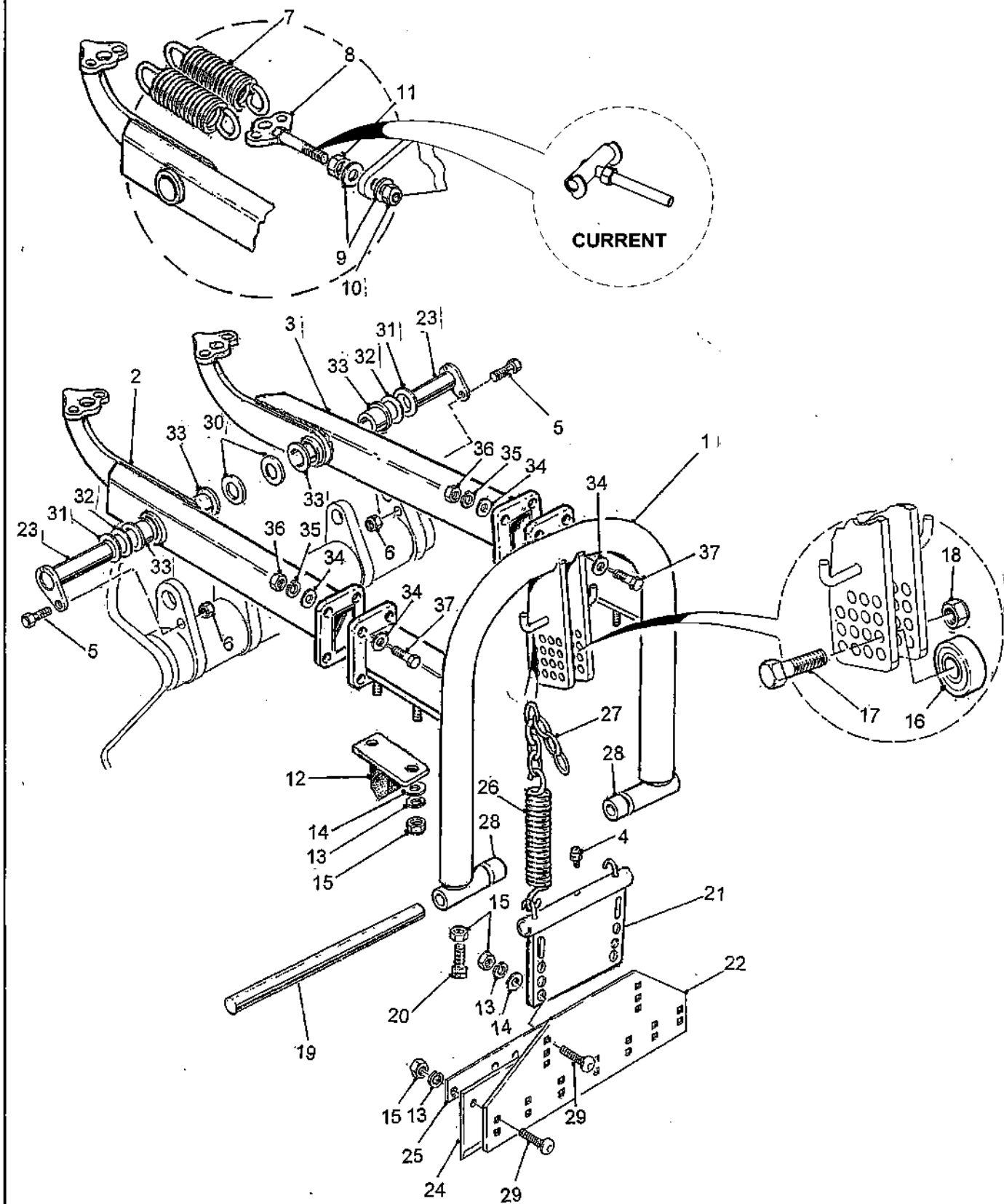
See Page 2-01 for the Floating
Cutter Head Assembly.

} Available as Roller Bearing
KX20007
} Available as Roller Bearing
KX20006

NON CURRENT

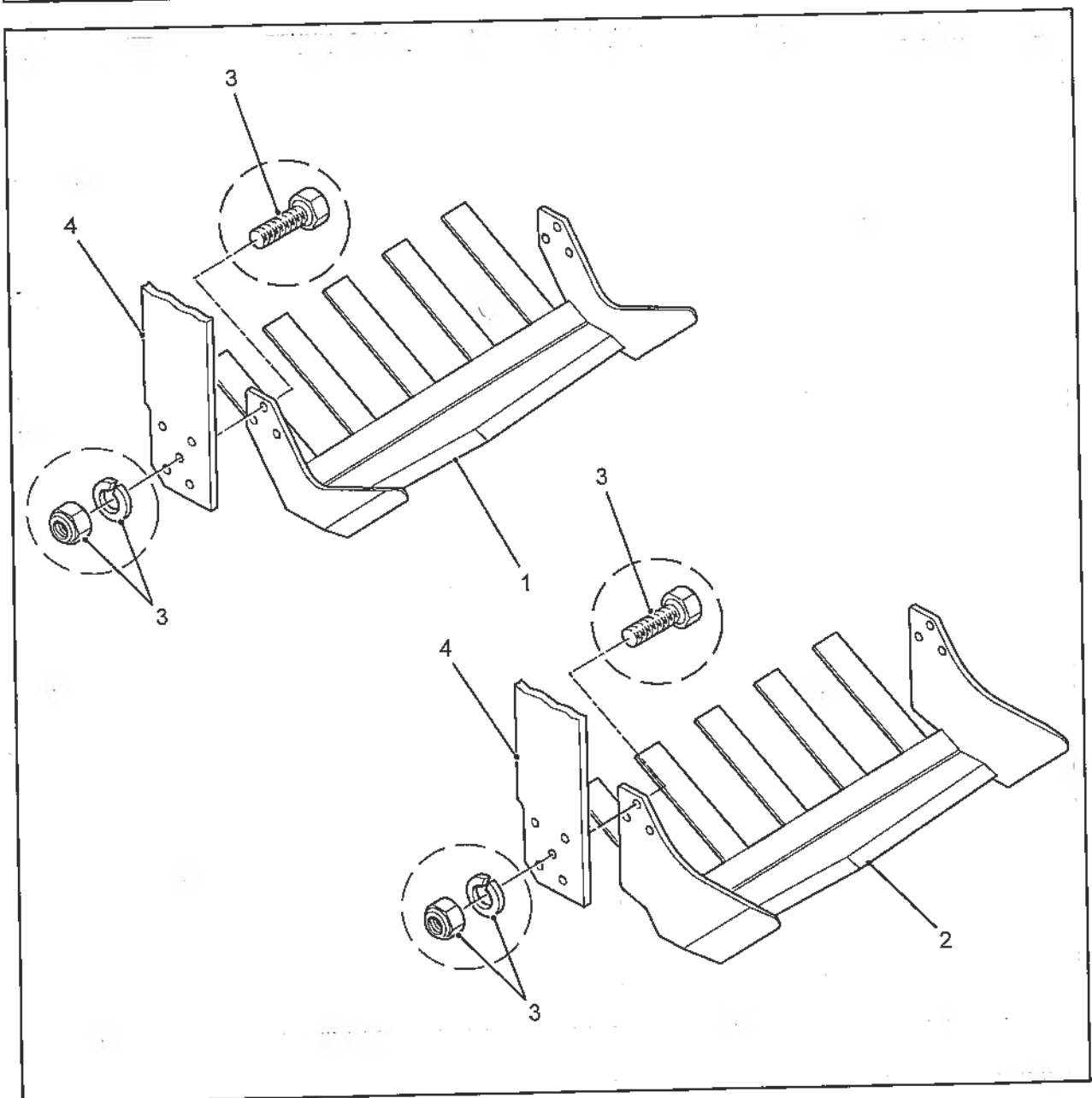


ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE ECCENTRIC SHAFT & CONNECTING ROD ASSEMBLY			
1	H100015	Crankshaft. 16 in. - Current from Serial No. 233	1
	H100155	Crankshaft. 24 in. - Current from Serial No. 233	1
	H100588	Crankshaft. 16 in. - Non Current up to Serial No. 204	1
	H100590	Crankshaft. 24 in. - Non Current up to Serial No. 204	1
2	KD33450	Sheave. Triple Groove. Taper Lock - Current	1
	KD22041	41 Tooth Sprocket - Crank Shaft - Non Current	1
3	KD52020	Taper Lock Bushing - Current	1
	KD52050	Taper Lock Bushing 2.00 - Non Current	1
4	KB32033	Flanged Bearing. 2.0 in. Dia.	2
5	G0818060	Bolt. M18 x 60 Gr.10.9 (Metric)	4
6	G211850	Locknut. M18 x 1.5 (Metric)	4
7	H100672	Connecting Rod. (Steel) - Current from Serial No. 233 per machine	2
	H500269	Connecting Rod. c/w Bearing Cups - Non Current up to Serial No. 232	2
8	KB23010	Tapered Roller Bearing - Non Current up to Serial No. 232	2
9	KB90012	Seal - Non Current up to Serial No. 232	1
10	KX20036	Nut. Slotted 3/4 in. - 16 - Non Current up to Serial No. 232	1
11	H100592	Washer - Non Current up to Serial No. 232	1
12	KX20037	Dust Cap - Non Current up to Serial No. 232	1
13	F910514	Cotter Pin. 5/32 x 1 1/2 - Non Current up to Serial No. 232	1
14	KB51812	Bearing. Needle Roller	2
15	KB12031	Thrust Washer. 1.25 ID.x 1.937 OD. X 0.094	4
16	KB42031	Thrust Bearing. Needle Roller 1.25 ID x 1.937 OD. X 0.078	2
17	H100245	Axle. Needle Roller Bearing	2
18	KH80011	Seal. Connecting Rod Bearings	2
19	H300055	Tie Bolt. Connecting Rod	1
20	H100246	Nut. Special - Retainer	1
21	G311800	Lockwasher. M18 (Metric)	4
22	KX90021	Grease Fitting 90 deg Elbow	2
23	KM11490	Grease Fitting 1/4-28 90 deg. Elbow - Current from Serial No. 233	2
24	F815244	Internal Retaining Ring 2 7/16 - Current from Serial No. 233	2
25	KB50002	Deep Groove Ball Bearing 25mm - Current from Serial No. 233	2
26	KB42031	Shim Washer .020 in. - Current from Serial No. 233	1
27	H100045	Retainer Washer - Current from Serial No. 233	2
28	F310600	Lockwasher 3/8 - Current from Serial No. 233	2
29	F040606	Bolt 3/8 unc x 3/4 Gr.8 - Current from Serial No. 233	2
NOTE 1 Non Current up to Serial No. 232 H500307 - Service Kit for Connecting Rod Assy. Items: 8, 9, 10, 11, 12, 13, 14, 15, 16 & 18 H500270 - Connecting Rod Assy. Items: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 22. NOTE 2 Current from Serial No. 233 H500373 - Conecting Rod Assy Items: 7, 14, 15, 16, 17, 18, 19, 23, 24, 25 & 26 H500374 - 16 in. Crank Shaft Retrofit Assy. w/pulley H500376 - 24 in. Crank Shaft Retrofit Assy. w/pulley Items: 1, 2, 3, 27, 28, 29 & H500373			

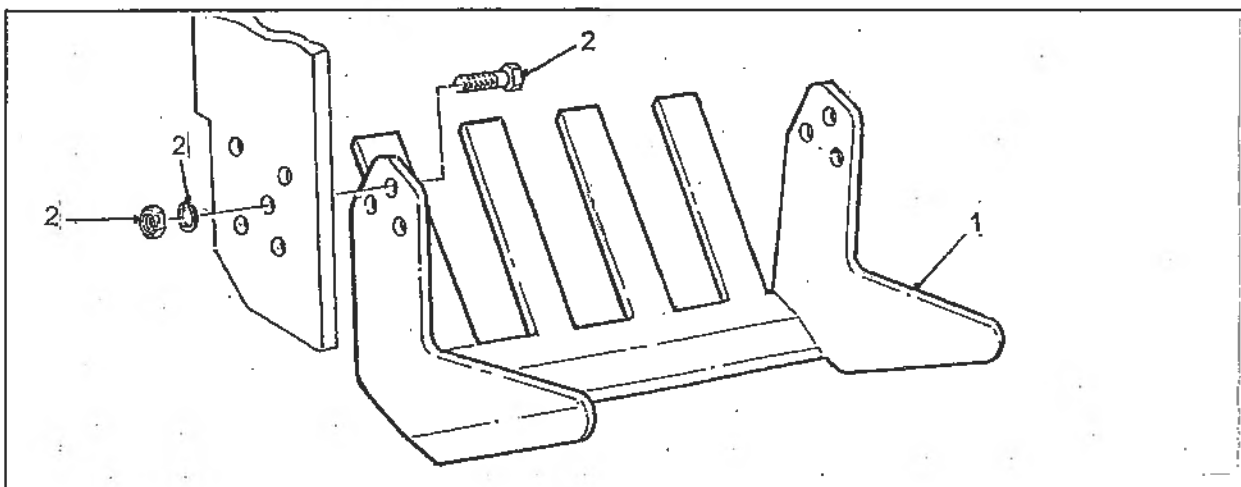


ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE CUT-OFF LIFT ARM			
1	H300042	Front Frame. 16 in. Cut Off	1
	H300047	Front Frame. 24 in. Cut Off	1
2	H300203	Cut Off Arm. R.H.	1
3	H300202	Cut Off Arm. L.H.	1
4	KM11040	Grease Fitting	1
5	F040510	Bolt 5/16 unnc x 1 Gr.8	2
6	F210500	Locknut 5/16 unc	2
7	H100100	Cut-off Spring	4
8	H300267	Cut-off Spring Tensioner - Current	2
	H300022	Spring Tension Adjuster - Non Current	2
9	F331008	Washer 5/8 Gr.8	4
10	F211000	Locknut 5/8 unc	2
11	F221000	Jam Nut 5/8 unc	2
12	KS60001	Rebound Bumper	2
13	F310600	Lockwasher 3/8	15
14	F320600	Washer 3/8	15
15	F230600	Nut 3/8 unc	15
16	KB12127	Cam Follower	1
17	F040824	Bolt 1/2 unc x 2 1/2 Gr.8	1
18	F210800	Locknut 1/2 unc	1
19	H100054	Pivot Shaft 16 in.	1
	H100167	Pivot Shaft 24 in.	1
20	F110606	Screw 3/8 unc x 3/4. Sq. Hd. Cup PT. Set	2
21	H300016	Cut-off Blade Holder 16 & 18 in.	1
	H300038	Cut-off Blade Holder 24 in.	1
22	H100469	Blade Holder 16 in.	1
	H100470	Blade Holder 24 in.	1
23	H300211	Pivot Pin	2
24	KR16001	Cut-off Blade 16in. Straight	1
	KR16002	Cut-off Blade 16 in.Serrated	1
	KR24001	Cut-off Blade 24 in.Straight	1
	KR24002	Cut-off Blade 24 in.Serrated	1
25	H100110	Blade Clamp 16 in.	1
	H100169	Blade Clamp 24 in.	1
26	KS20002	Spring	2
27	H100294	Drop Chain	2
28	H100511	Spacer. Cut-off Frame	2
29	F020612	Bolt 3/8 x 1 1/4. Carriage.	9
30	F381013	Shim Washer 1 in.	2
31	H100568	Shim Washer. Thick	A/R
32	H100569	Shim Washer. Thin	A/R
33	H100009	Flanged Bushing	4
34	F320500	Flatwasher 5/16	16
35	F310500	Lockwasher 5/16	8
36	F210500	Locknut 5/16-18 unc	8
37	F040510	Bolt 5/16-18 unc x 1 Gr.8	8

ITEM NO.	PART NO.	DESCRIPTION	QTY
		ROBOMAX JOHN DEERE CUTTER BLADE ASSEMBLIES	
1	KR16030	Cutter Blade 16 in. Pointed with Fingers	1
	KR24030	Cutter Blade 24 in. Pointed with Fingers	1
2	KR12040	Cutter Blade 16 in. Pointed with Fingers Tall Side Blade	1
3	H500200	Cutter Blade Bolt Assembly	6
4	H300200	Cutter Arm - R.H.	1
	H300201	Cutter Arm - L.H. (Not Illustrated)	1



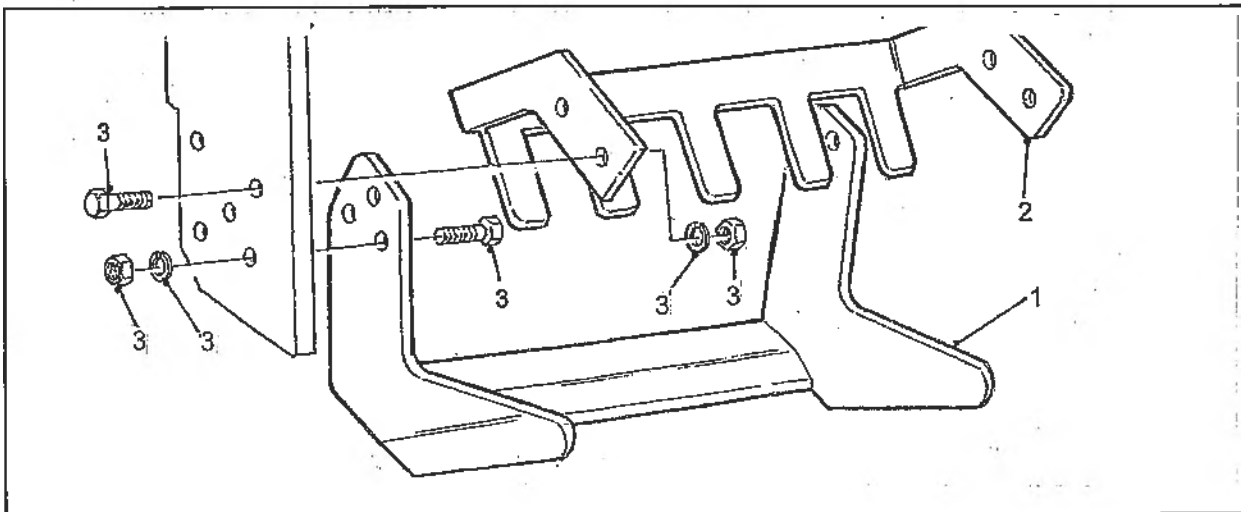
ITEM NO.	PART NO.	DESCRIPTION	QTY
CUTTING BLADES			
1	KR16003	Cutting Blade 16 x 1/4 x 2 1/2 Straight 4 Finger	1
	KR16004	Cutting Blade 16 x 1/4 x 3 Formed HD. 4 Finger	1
	KR18003	Cutting Blade 18 x 1/4 x 2 1/2 Straight HD. 4 Finger	1
	KR18004	Cutting Blade 18 x 1/4 x 3 Formed HD. 4 Finger	1
	KR24003	Cutting Blade 24 x 1/4 x 2 1/2 Straight HD. 5 Finger	1
	KR24004	Cutting Blade 24 x 1/4 x 3 Formed HD. 5 Finger	1
2	H500200	Cutting Blade Bolt Assembly	6

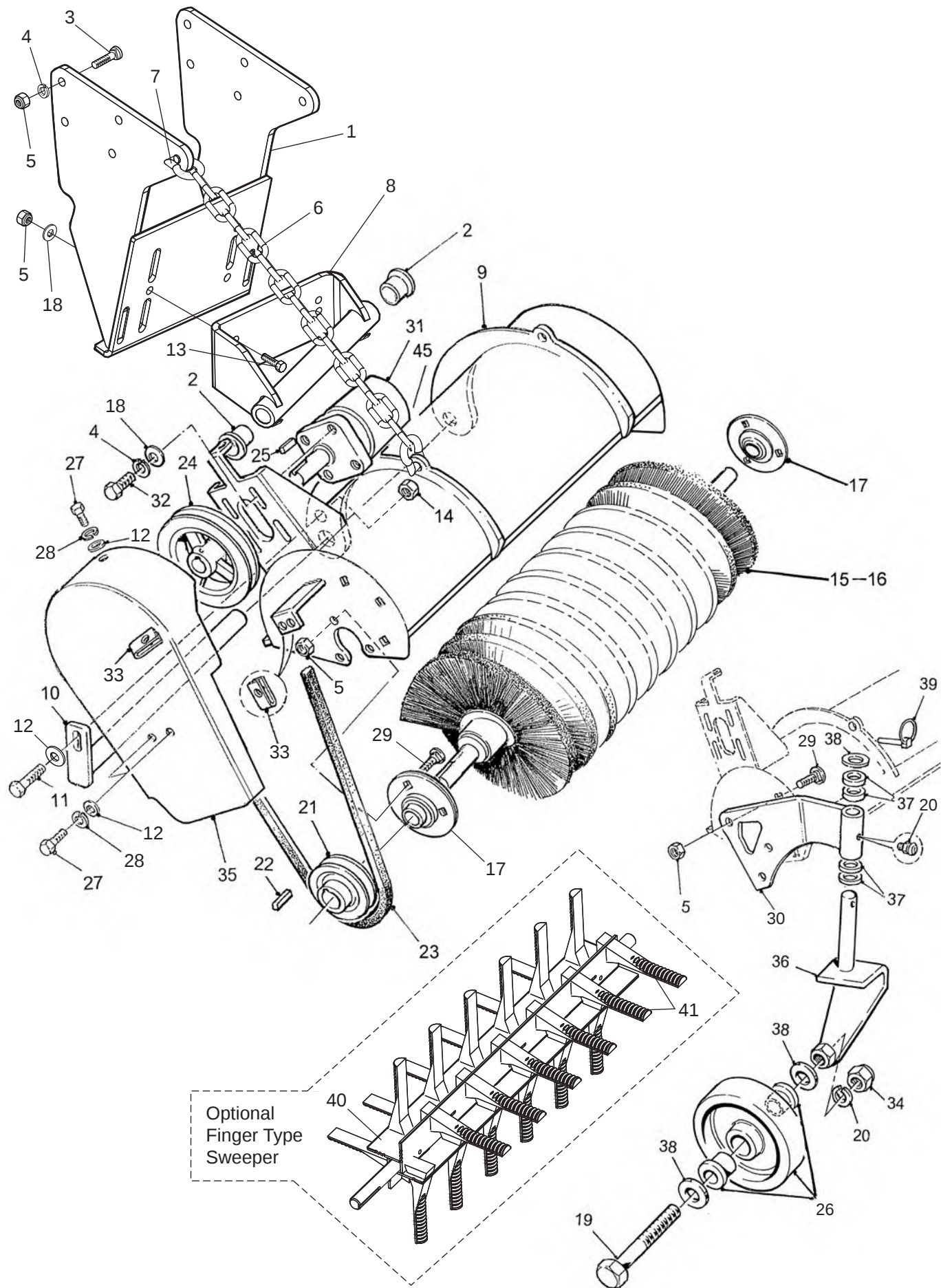


1	KR16005	Cutting Blade 16 x 1/4 x 2 1/2 HD.	1
	KR16006	Cutting Blade 16 x 1/4 x 3 Formed HD.	1
	KR18005	Cutting Blade 18 x 1/4 x 2 1/2 HD.	1
	KR18006	Cutting Blade 18 x 1/4 x 3 Formed HD.	1
	KR24005	Cutting Blade 24 x 1/4 x 2 1/2 HD.	1
	KR24006	Cutting Blade 24 x 1/4 x 3 Formed HD.	1
2	H100323	Sod Guide Bracket 16 in.	1
	H100324	Sod Guide Bracket 18 in.	1
	H100325	Sod Guide Bracket 24 in.	1
3	H500200	Cutting Blade Bolt Assembly	10

NOTE

H500200 - Cutting Blade Bolt Assembly includes a 5/16 Bolt, Locknut & Lockwasher.

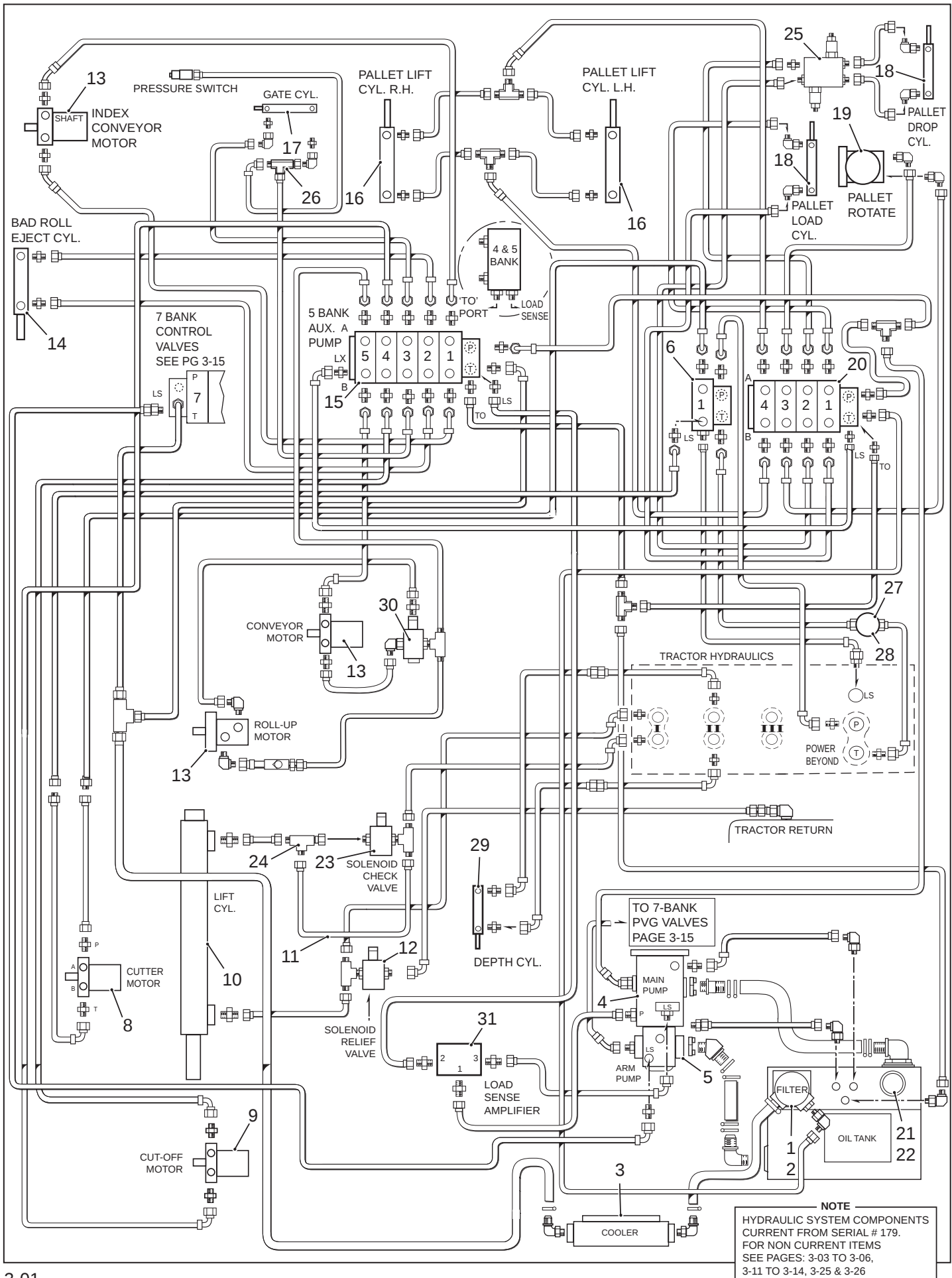




ITEM NO.	PART NO.	DESCRIPTION	QTY
ROBOMAX JOHN DEERE BRUSH ATTACHMENT			
1	H300248	Sweeper Pivot Mount 16 & 18in. (H300249 - 24in.)	1
2	KB11224	Bushing Flanged 0.75 ID x 1.00 x 1.50 lg	2
3	F020614	Bolt Carriage 3/8 UNC x 1.50	8
4	F310608	Lockwasher 3/8 Gr.8	12
5	F210608	Nut 3/8 UNC Nyloc Gr.8	19
6	H100316	Safety Chain	1
7	KC01005	Screw Pin Shackle - 5/16	2
8	H300250	Brush Pivot Mount 16 & 18in. (H300251 - 24in.)	1
9	H300062	Sweeper Brush Mount 16 & 18in. (H300080 - 24 in.)	1
10	H300061	Brush Tilt Shaft 16 & 18in. (H300081 - 24in.)	1
11	F040510	Bolt 5/16 UNC x 1 Gr.8	1
12	F320508	Washer 5/16 Gr.8 USS Flat Struc.	4
13	F040612	Bolt 3/8 UNC x 1.25 Gr.8	2
14	F210508	Locknut 5/16-18 Gr.8	1
15	H300068	Sweeper Brush. 16 & 18in.	1
16	H300079	Sweeper Brush. 24 in.	1
17	KB33012	Flanged Bearing 0.75 Dia. 3 Bolt	2
18	F320608	Washer 3/8 Gr.8 USS Flat Struc.	6
19	F041244	Bolt 3/4 unc x 4 1/2 Gr.8	1
20	KM11400	Grease Fitting	1
21	KD11044	Sheave - Pressed Steel 0.75 Bore	1
22	F923312	Key 3/16 x 3/16 x 1.25	1
23	KD10016	'V' Belt	1
24	KD11070	Sheave 6.00 PDA x 1.00 Bore	1
25	F924412	Key 1/4 x 1/4 x 1.25	1
26	KW88200	Wheel Assembly c/w Wheel KW88100 & Bushings KB88100	1
27	F040506	Bolt 5/16 x 3/4 Gr.8	3
28	F310508	Lockwasher 5/16 UNC Gr.8	3
29	F020610	Carriage Bolt 3/8 UNC x 1.00	9
30	H300069	Castor Bracket	1
31	KH30014	Brush Kit Motor	1
	KH70054	Seal Kit. Brush Kit Motor	1
32	F040606	Bolt 3/8 UNC x 3/4 Gr.8	4
33	F240500	Clip Nut 5/16	3
34	F221208	Jam Nut 3/4 UNC Gr.8	1
35	H300074	Sweeper Belt Cover	1
36	H300070	Castor Pivot	1
37	H100306	Castor Pivot Spacer	6
38	F321208	Washer 3/4 Gr.8 USS Flat	3
39	KX30319	Linch Pin	1
40	H300254	Finger Brush Shaft 16 & 18in. (H300255 - 24in.)	1
41	M5106	Sweeper Fingers 16 & 18in.	24
	M5106	Sweeper Fingers 24in.	32

SECTION 3 HYDRAULIC SYSTEM

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Hydraulic System – Rear Valves, Motors & Cylinders. Fittings – JD 6105 & up	3-13a
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Hydraulic System – Robotic Arm. Hose Assemblies – JD 6105 & up	3-15a
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Hydraulic Valve Banks	3-23
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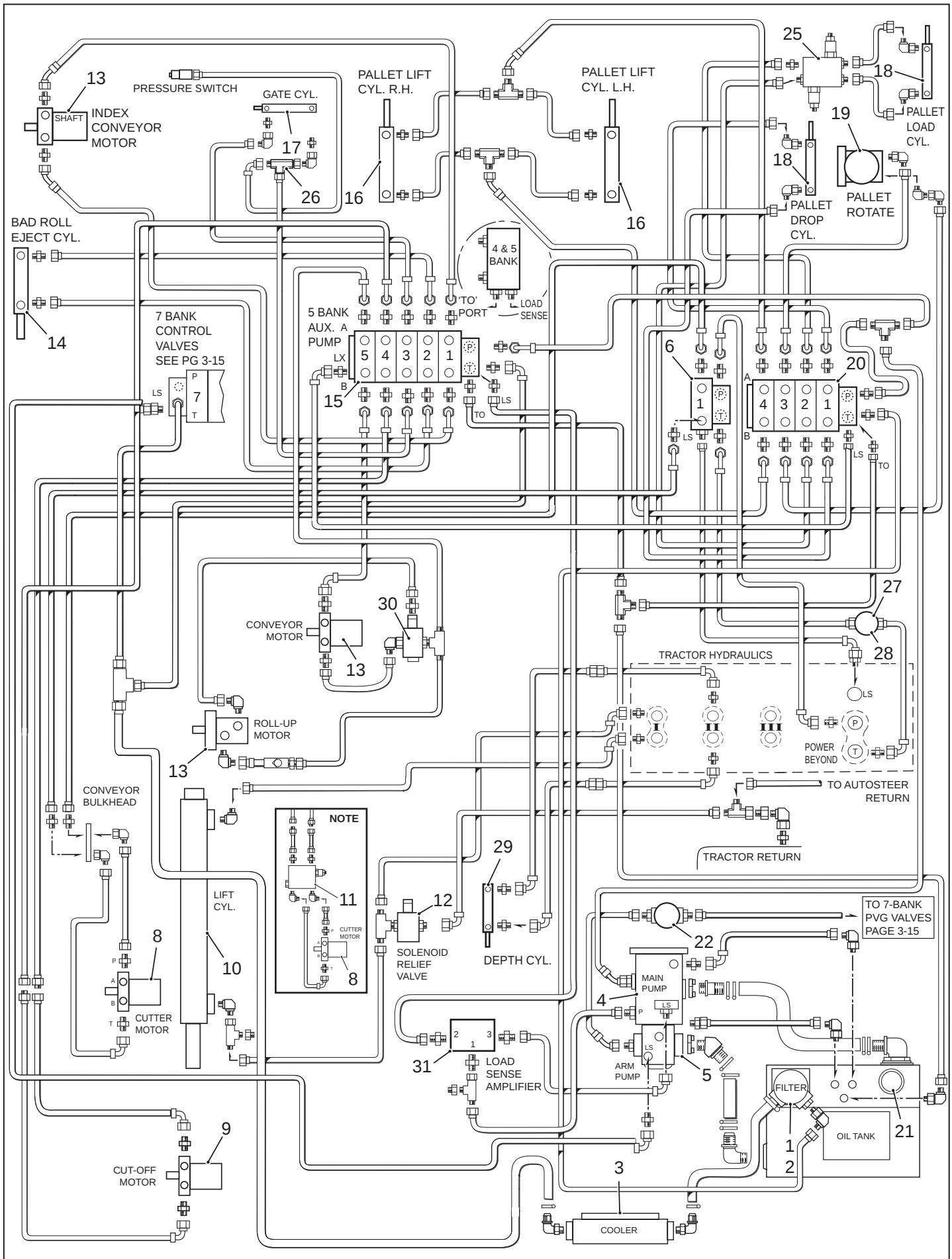
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Components - Current from Serial Number 179			
1	KH40058	Return Filter Assembly	1
2	KH40059	Filter Element	1
3	KH40050	Oil Cooler	1
4	KH30029	Main Pump	1
	KH70092	Seal Kit. Main Pump	1
5	KH30043	Hydraulic Pump	1
	KH70093	Seal Kit. Hydraulic Pump	1
6	KH20217	1 Bank Valve Block	1
7	H500199	Depth Control Cylinder Assembly	1
	KH70067	Seal Kit. Depth Control Cylinder	1
8	KH30013	Hydraulic Motor. - Cutter Heads	1
	KH70090	Seal Kit. Hydraulic Motor. - Cutter Heads	1
9	KH30027	Hydraulic Motor. - Cut-Off	1
10	R500020	Head Lift Cylinder	1
		Seal Kit. Head Lift Cylinder	1
11	R100569	Lift Cylinder Circuit Tube	1
12	KH20200	Solenoid Relief Valve Body	1
	KH20201	Solenoid Relief Valve Coil	1
	KH20202	Solenoid Relief Valve Spool	1
13	KH30007	Hydraulic Motor - Main Conveyor, Roll-Up & Index Conveyor	2
	KH70054	Seal Kit. Hydraulic Motor - Conveyors	1
14	4131860	Cylinder - Bad Roll Eject	1
		Seal Kit. Cylinder - Bad Roll Eject	1
15	KH20218	5-Bank Valve Block	1
16	4132569	Cylinder - Pallet Lift L.H. & R.H.	2
	4160105	Seal Kit. - Pallet Lift Cylinder	1
17	4160565	Cylinder - Gate	1
		Seal Kit. - Gate Cylinder	1
18	4134118	Cylinder - Pallet Load & Drop	2
		Seal Kit. - Pallet Load & Drop Cylinder	1
19	4133657	Hydraulic Motor. - Pallet Rotate	1
		Seal Kit. Hydraulic Motor. - Pallet Rotate	1
20	KH20219	4-Bank Valve Block	1
21	KH40068	Breather Basket	1
22	KH40069	Breather Trap	1
23	KH20212	Solenoid Check Valve Assembly	1
24	KH20196	Check Valve - In-Line	1
25	KH20211	Cross Over Relief Valve	1
26	4134283	Pressure Switch	1
27	H5019	In-Line Filter Assembly	1
28	H5020	In-Line Filter Element	1
29	H500001	Cylinder - Depth Control	1
30	KH20119	Directional Control Valve - Current from Serial # 179	1
	KH20233	Valve Body - Current from Serial # 179	1
	KH20199	Solenoid Valve Body - Non Current to Serial # 178	1
	KH20197	Solenoid Valve Spool - Non Current to Serial # 178	1
	KH20198	Solenoid Valve Coil - Non Current to Serial # 178	1
31	KH20125	Load Sense Amplifier	1

NOTE

Hydraulic System Components
Current from Serial # 179.
For Non Current Items
SEE PAGES: 3-03 to 3-06,
3-11 to 3-14, 3-25 & 3-26

NOTE

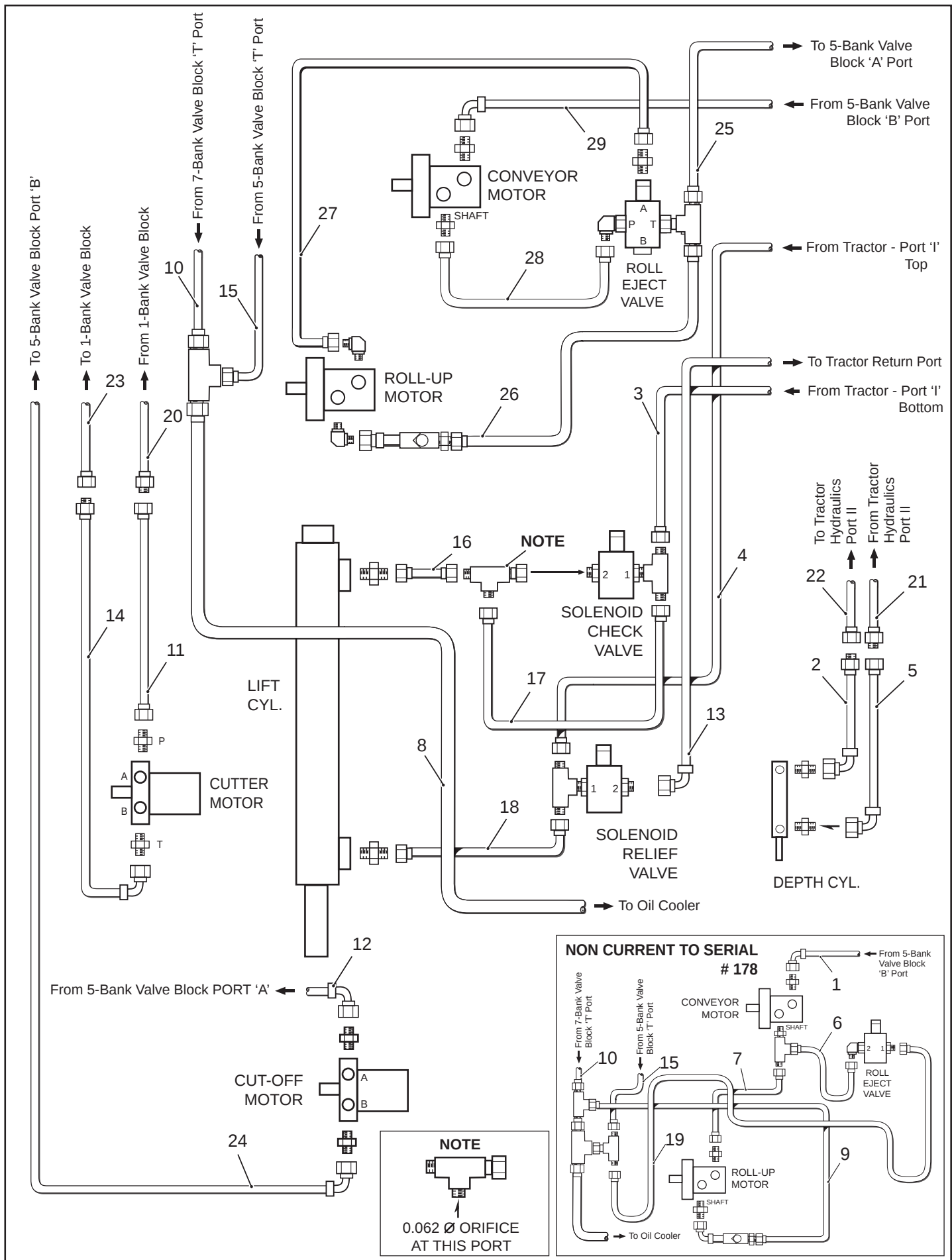
Non Current Items are Replaced
by Roll Eject Field Kit R500105.
For Field Kit Items SEE PAGES:
3-04 & 3-06.



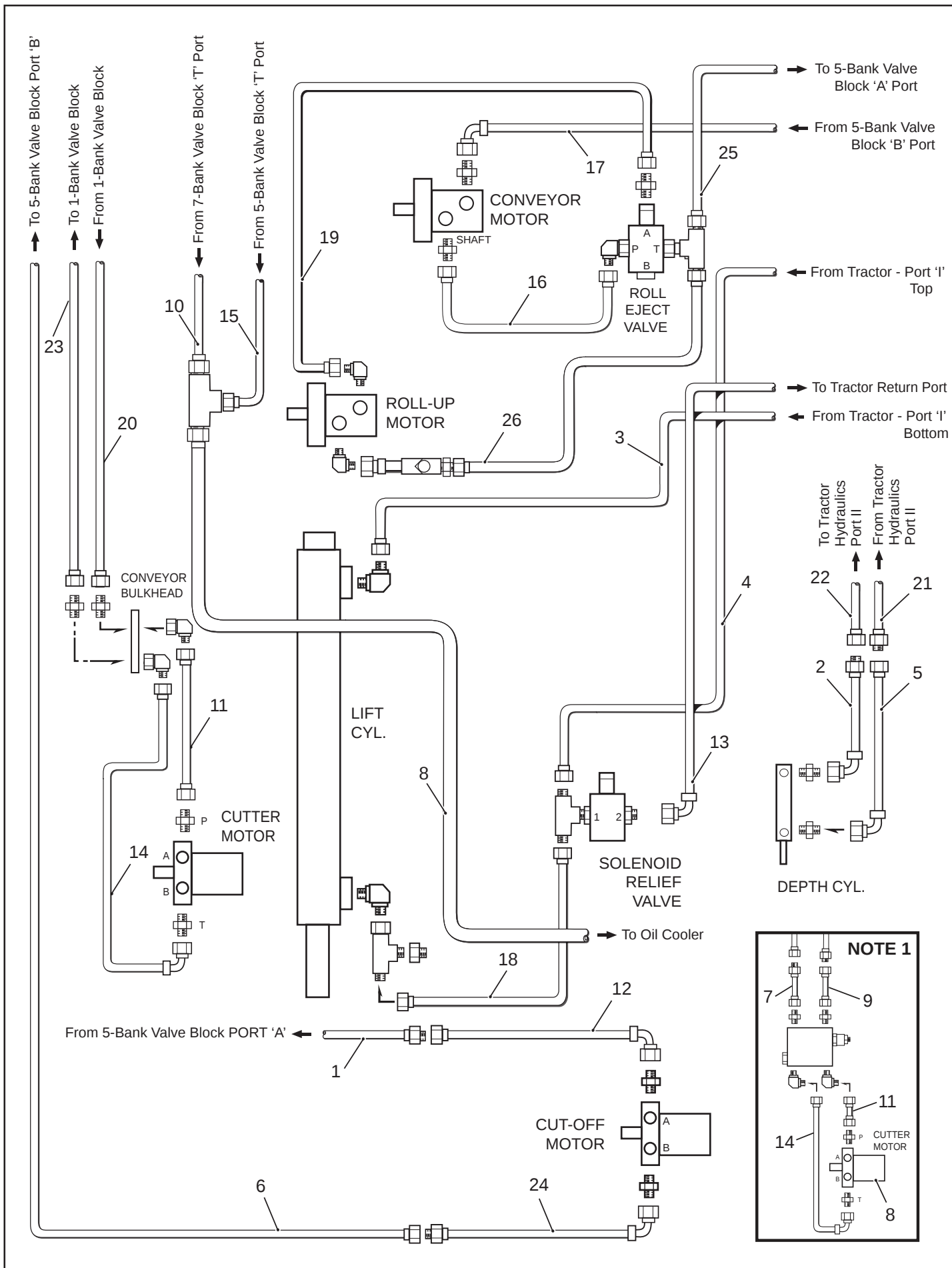
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105, 6110 & 6115 Hydraulic System - Components			
1	KH40058	Return Filter Assembly	1
2	KH40059	Filter Element	1
3	KH40050	Oil Cooler	1
4	KH30029	Main Pump	1
	KH70092	Seal Kit. Main Pump	1
5	KH30043	Hydraulic Pump	1
	KH70093	Seal Kit. Hydraulic Pump	1
6	KH20217	1 Bank Valve Block	1
7	H500199	Depth Control Cylinder Assembly	1
	KH70067	Seal Kit. Depth Control Cylinder	1
8	KH30056	Hydraulic Motor. - Cutter Heads	1
	KH70120	Seal Kit. Hydraulic Motor. - Cutter Heads	1
9	KH30027	Hydraulic Motor. - Cut-Off	1
10	R500020	Head Lift Cylinder	1
		Seal Kit. Head Lift Cylinder	1
11	KH20267	Cross Over Relief Valve - Non Current	1
12	KH20200	Solenoid Relief Valve	1
	KH20201	Solenoid Relief Valve Coil	1
	KH20204	Solenoid Relief Valve Body	1
13	KH30007	Hydraulic Motor - Main Conveyor, Roll-Up & Index Conveyor	2
	KH70054	Seal Kit. Hydraulic Motor - Conveyors	1
14	4131860	Cylinder - Bad Roll Eject	1
		Seal Kit. Cylinder - Bad Roll Eject	1
15	KH20218	5-Bank Valve Block	1
16	4132569	Cylinder - Pallet Lift L.H. & R.H.	2
	4160105	Seal Kit. - Pallet Lift Cylinder	1
17	4160565	Cylinder - Gate	1
		Seal Kit. - Gate Cylinder	1
18	4134118	Cylinder - Pallet Load & Drop	2
		Seal Kit. - Pallet Load & Drop Cylinder	1
19	4133657	Hydraulic Motor. - Pallet Rotate	1
		Seal Kit. Hydraulic Motor. - Pallet Rotate	1
20	KH20219	4-Bank Valve Block	1
21	KH40003	Filter - Breather Assembly	1
22	KH40070	Pressure Filter Assembly	1
	KH40071	Filter Element	1
	KH40102	Clogging Indicator	1
25	KH20211	Cross Over Relief Valve	1
26	4134283	Pressure Switch	1
27	H5019	In-Line Filter Assembly	1
28	H5020	In-Line Filter Element	1
29	H500001	Cylinder - Depth Control	1
30	KH20119	Directional Control Valve	1
	KH20233	Valve Body	1
31	KH20125	Load Sense Amplifier	1

NOTE

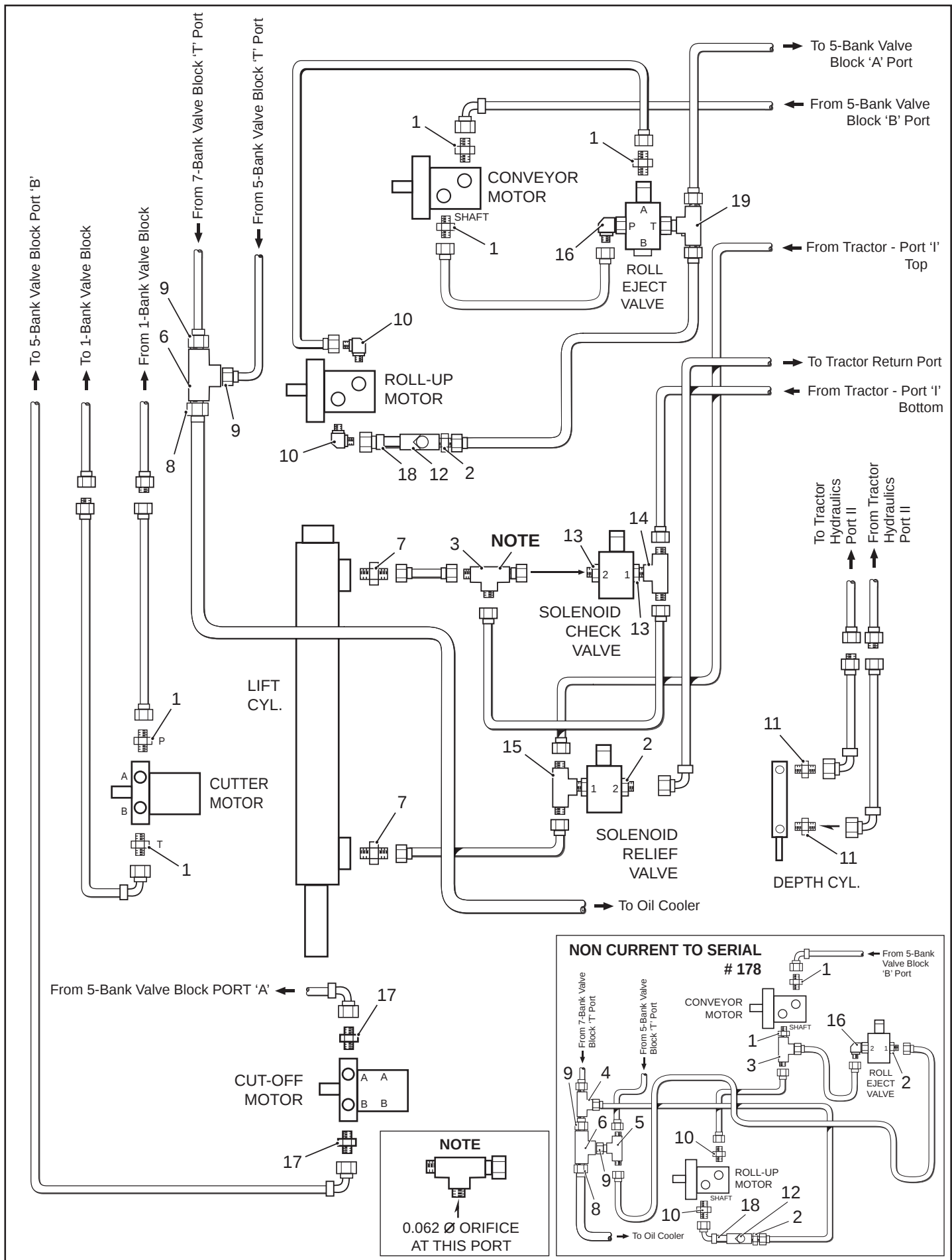
Item 11 the Cross Over Relief Valve is still required with Non-Current Cutter Motor Polychain Belt. See Page 2-02 for belt info.



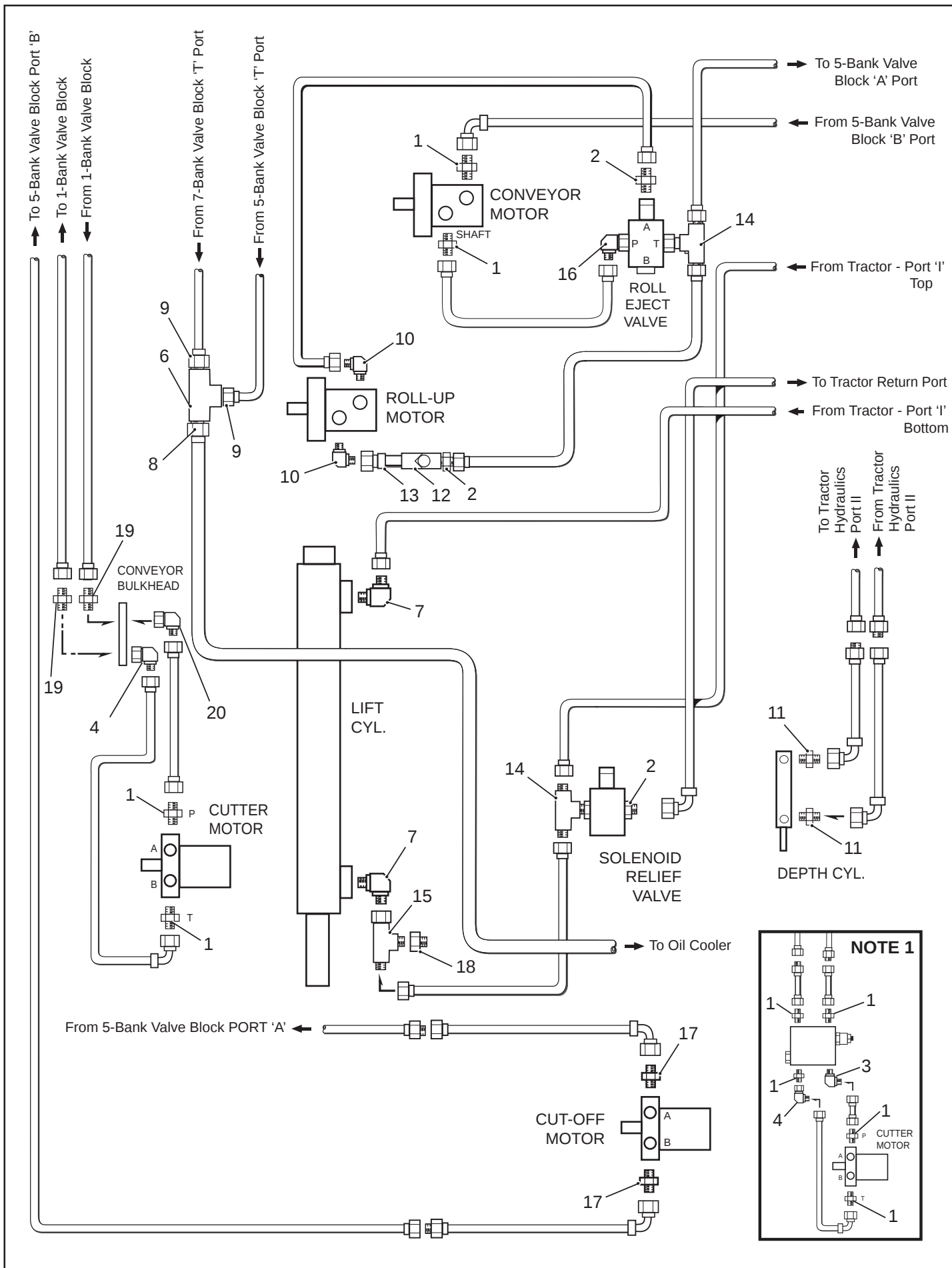
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Hose Assemblies Conveyor & Cutter Head - Current from Serial Number 179			
1	R200067	Hose Assembly. 5 Bank Valve to Main Conveyor Motor - N/C to #178	1
2	H500513	Hose Assembly. Tractor to Depth Cylinder	1
3	R200055	Hose Assembly. Tractor to Solenoid Relief Valve	1
4	R200054	Hose Assembly. Tractor from Solenoid Relief Valve	1
5	H500574	Hose Assembly. Tractor to Depth Cylinder	1
6	R200066	Hose Assembly. Solenoid Valve to Roll-Up Motor - N/C to #178	1
7	R200064	Hose Assembly. Conveyor Motor to Roll-Up Motor - N/C to #178	1
8	R200014	Hose Assembly. Tee from 7-Block Valve Bank to Oil Cooler	1
9	R200065	Hose Assembly. 7-Block Valve Bank Tee to Roll-Up Motor - N/C to #178	1
10	R200015	Hose Assembly. 7 Bank Valve 'T' Port to Return 'T'	1
11	H500631	Hose Assembly. Tractor to Cutter Motor	1
12	R200058	Hose Assembly. Cut-Off Motor from 5-Bank Valve Block from Tractor	2
13	R200053	Hose Assembly. Solenoid Valve to Tractor Return	1
14	H500632	Hose Assembly. Cutter Motor to Tractor	1
15	R200016	Hose Assembly. 5 Bank Valve 'T' Port to Return 'T'	1
16	R200056	Hose Assembly. Tee to Lift Cylinder	1
17	R100569	Tube Assembly. 1/2 in. 90 deg.	1
18	R200057	Hose Assembly. Solenoid Valve to Lift Cylinder	1
19	R200068	Hose Assembly. Check Valve Port to Cooler Return - N/C to #178	1
20	R200087	Hose Assembly. Cutter Motor - Male End Return	1
21	R200063	Hose Assembly. Depth Cylinder - Male End	1
22	R200062	Hose Assembly. Depth Cylinder - Female End	1
23	R200088	Hose Assembly. Cutter Motor - Female End Pressure	1
24	R200059	Hose Assembly. Cut-Off Motor to 1-Bank Valve Block	1
25	R200130	Hose Assembly. Roll Eject Tee to 5 Bank - Current from #179	1
26	R200131	Hose Assembly. Roll-Up Motor to Roll Eject Tee - Current from #179	1
27	R200132	Hose Assembly. Roll-Up Motor to Roll Eject Valve - Current from #179	1
28	R200133	Hose Assembly. Conveyor Motor to Roll Eject - Current from #179	1
29	R200134	Hose Assembly. 5 Bank Valve to Conveyor Motor - Current from #179	1
NOTE Items 1, 6, 7, 9 & 19 are Non Current. Replaced by Roll Eject Field Kit - R500105. KH20119 - Directional Control Valve KH20233 - Valve Body 4x - F180216 - Bolt - 10 UNC x 1 3/4 SOC HD 4x - F310200 - #10 Lockwasher 2x - F840400 - Nut 1/4 UNC Serrated Flange R200130 - Hose R200131 - Hose R200132 - Hose R200133 - Hose R200134 - Hose 8-8-070220 - Fitting 8-8-070120 - Fitting 8-090109B - Fitting 8-8-8-070429 - Fitting 8-10-070120 - Fitting R101017 - Mounting Plate (Retrofit) 2x - F610406 - Flathead Bolt 1/4-20 x 3/4 2x - F210408 - Nyloc Nut 1/4-20 Gr.8 UNC (4x for Retrofit) 2x - F180420 - Hex Socket Cap Screw 1/4-20 x 2			



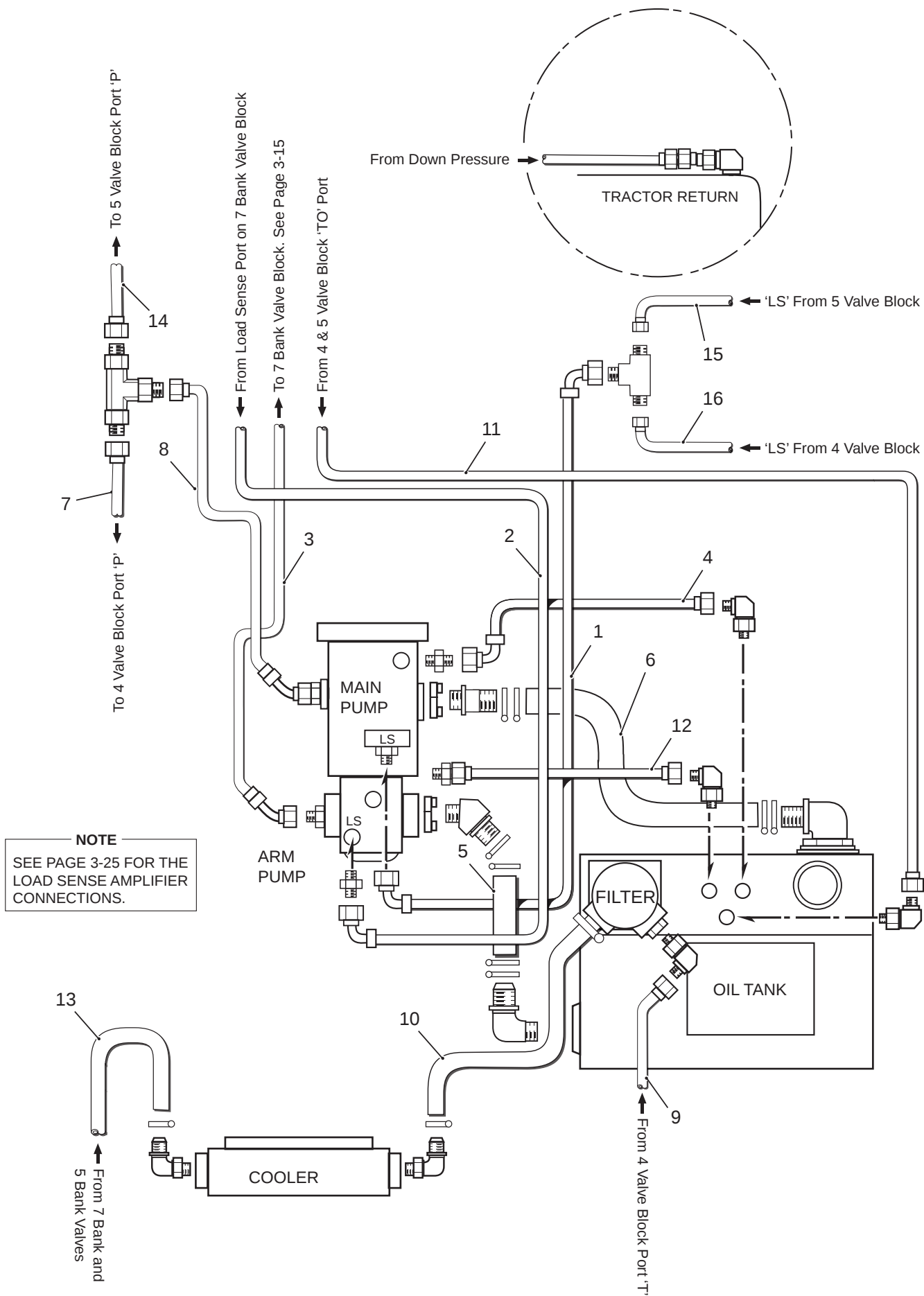
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105, 6110 & 6115 Hydraulic Hose Assemblies - Conveyor & Cutter Head			
1	R200058	Hose Assembly. Male End from 5 Bank Valve Block	1
2	H500618	Hose Assembly. Tractor to Depth Cylinder	1
3	R200247	Hose Assembly. Tractor to Lift Cylinder	1
4	R200246	Hose Assembly. Tractor from Solenoid Relief Valve	1
5	H500620	Hose Assembly. Tractor to Depth Cylinder	1
6	R200059	Hose Assembly. Female End to 5 Bank Valve Block	1
7	A200147	Hose Assembly. Cross Over Relief Valve from Male End - Non Current	1
8	R200263	Hose Assembly. Tee from 7-Block Valve Bank to Oil Cooler	1
9	A200148	Hose Assembly. Cross Over Relief Valve to Female End - Non Current	1
10	R200015	Hose Assembly. 7 Bank Valve 'T' Port to Return 'T'	1
11	A200145	Hose Assembly. Cross Over Relief Valve to Cutter Motor	1
12	R200115	Hose Assembly. Cut-Off Motor to Male End	2
13	R200245	Hose Assembly. Solenoid Valve to Tractor Return	1
14	A200146	Hose Assembly. Cutter Motor to Cross Over Relief Valve	1
15	R200237	Hose Assembly. 5 Bank Valve 'T' Port to Return 'T'	1
16	R200133	Hose Assembly. Conveyor Motor to Roll Eject	1
17	R200134	Hose Assembly. 5 Bank Valve to Conveyor Motor	1
18	R200248	Hose Assembly. Solenoid Valve to Lift Cylinder	1
19	R200132	Hose Assembly. Roll-Up Motor to Roll Eject Valve	1
20	R200244	Hose Assembly. Cutter Motor - Male End Return	1
21	R200257	Hose Assembly. Depth Cylinder - Male End	1
22	R200258	Hose Assembly. Depth Cylinder - Female End	1
23	R200243	Hose Assembly. Cutter Motor - Female End Pressure	1
24	R200116	Hose Assembly. Cut-Off Motor to 1-Bank Valve Block	1
25	R200130	Hose Assembly. Roll Eject Tee to 5 Bank	1
26	R200131	Hose Assembly. Roll-Up Motor to Roll Eject Tee	1
NOTE Items 7, 9, 11 & 14 are available as Hose Kit: A500290			
NOTE 1 Non Current Items 7 & 9 are required with Non-Current the Cutter Motor Polychain Belt. See Page 2-02 for belt info.			



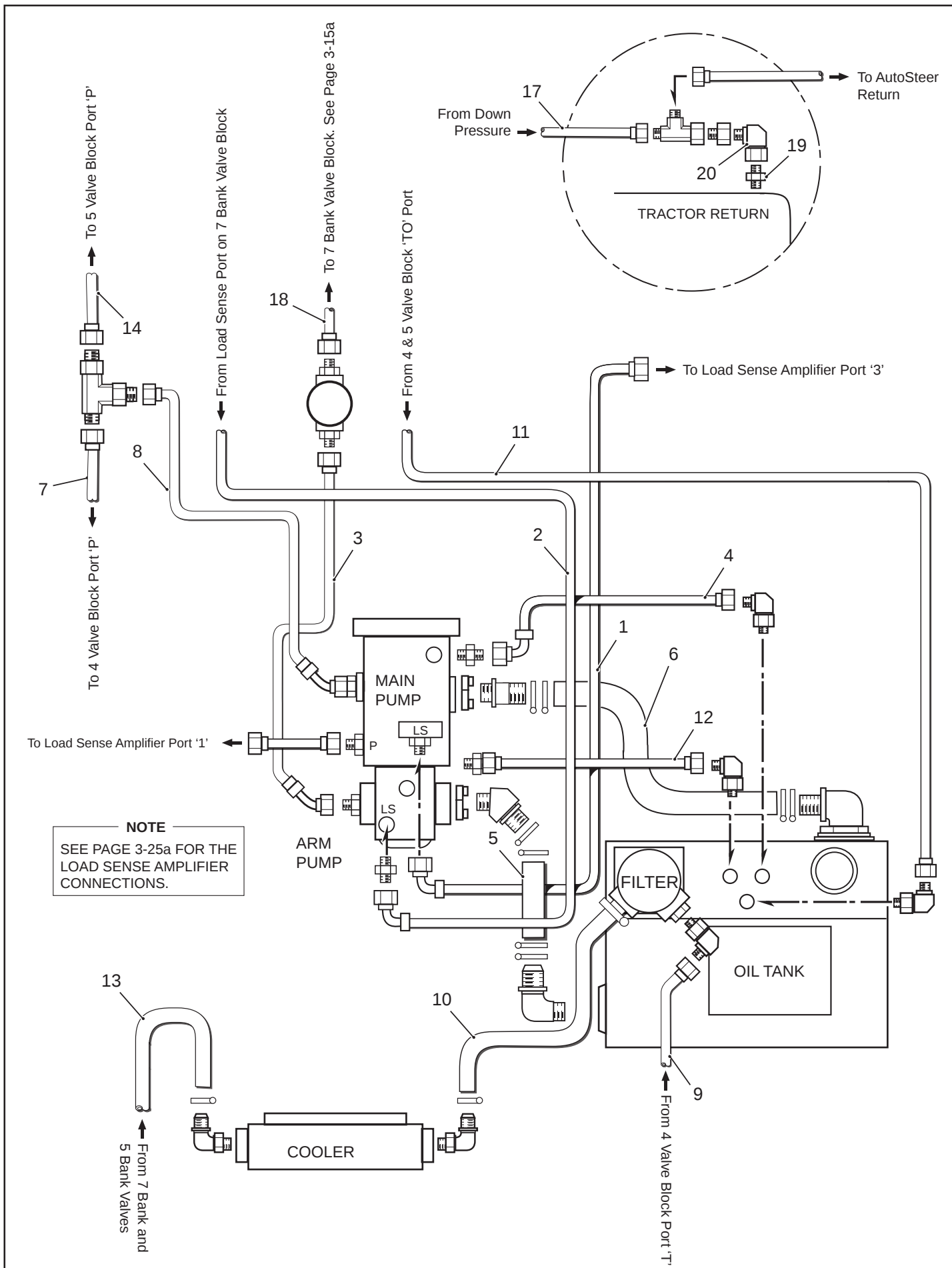
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Fittings Conveyor & Cutter Head - Current from Serial Number 179			
1	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	5
2	8-8-070120	Fitting. No. 8 JIC to No. 8 ORB Straight	2
3	8-8-8-070432	Fitting. No. 8 JIC Swivel Run 'T'	1
4	12-12-12-070432	Fitting. No. 12 JIC Swivel Run 'T' - Non Current to Serial # 178	1
5	12-12-12-070433	Fitting. No. 12 JIC Swivel Branch 'T' - Non Current to Serial # 178	1
6	20-20-20-070401	Fitting. No. 20 JIC 'T'	1
7	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	2
8	KH00128	Fitting. No. 20 JIC Swivel to 1 1/4 in. Hose Barb Adapter	1
9	20-12-070123	Fitting. No. 20 JIC Female to 12 JIC Male Adapter	2
10	8-10-070220	Fitting. No. 8 JIC to No. 10 ORB 90 deg. Elbow	2
11	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight	2
12	KH20196	Check Valve. In-Line	1
13	8-12-070120	Fitting. No. 8 JIC to No. 12 ORB Straight	2
14	8-8-8-070433	Fitting. No. 8 JIC Swivel Branch 'T'	1
15	8-8-8-070428	Fitting. No. 8 ORB Swivel Branch 'T'	1
16	8-8-070220	Fitting. No. 8 JIC to No. ORB 90 deg. Elbow	1
17	KH00111	Fitting. No. 8 BSP to No. 8 JIC Straight	2
18	8-8-070221	Fitting. No. 8 JIC Swivel to No. 8 ORB Straight	1
19	8-8-8-070429	Fitting. No. 8 ORB Swivel Branch 'T' - Current from Serial # 179	1
NOTE Items 4 & 5 are Non Current. Replaced by Roll Eject Field Kit - R500105. KH20119 - Directional Control Valve KH20233 - Valve Body 4x - F180216 - Bolt - 10 UNC x 1 3/4 SOC HD 4x - F310200 - #10 Lockwasher 2x - F840400 - Nut 1/4 UNC Serrated Flange R200130 - Hose R200131 - Hose R200132 - Hose R200133 - Hose R200134 - Hose 8-8-070220 - Fitting 8-8-070120 - Fitting 8-090109B - Fitting 8-8-8-070429 - Fitting 8-10-070120 - Fitting R101017 - Mounting Plate (Retrofit) 2x - F610406 - Flathead Bolt 1/4-20 x 3/4 2x - F210408 - Nyloc Nut 1/4-20 Gr.8 UNC (4x for Retrofit) 2x - F180420 - Hex Socket Cap Screw 1/4-20 x 2			



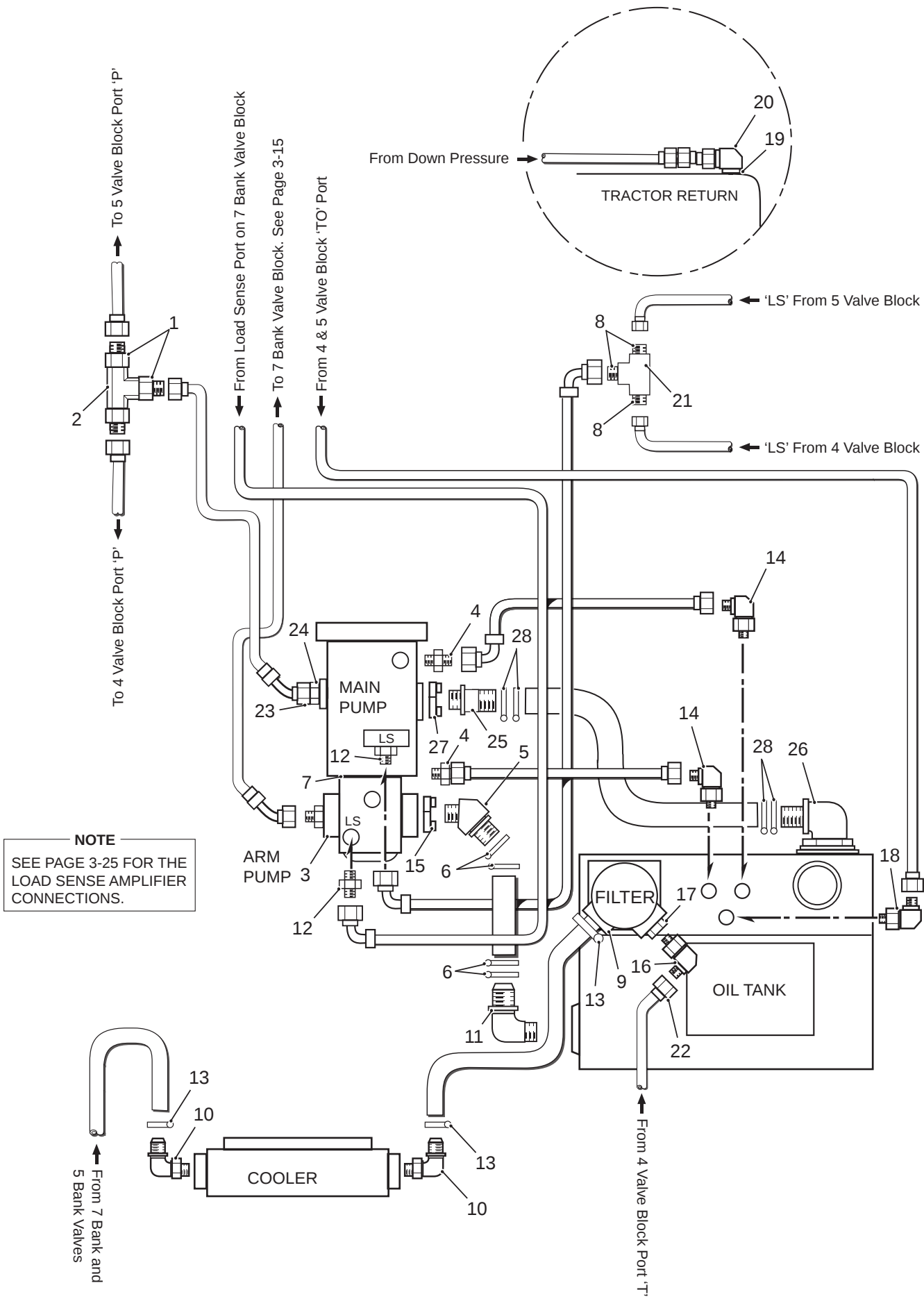
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 6110 & 6115 Hydraulic System Fittings - Conveyor & Cutter Head			
1	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	7
2	8-8-070120	Fitting. No. 8 JIC to No. 8 ORB Straight	3
3	8-10-070220	Fitting. No. 8 JIC to No. 10 ORB 90 deg. Elbow	1
4	8-8-070221	Fitting. No. 8 JIC to No. 8 Swivel 90 deg. Elbow	1
6	20-20-20-070401	Fitting. No. 20 JIC 'T'	1
7	8-6-070220	Fitting. No. 8 JIC to No. 6 ORB 90 deg. Elbow	2
8	KH00128	Fitting. No. 20 JIC Swivel to 1 1/4 in. Hose Barb Adapter	1
9	20-12-070123	Fitting. No. 20 JIC Female to 12 JIC Male Adapter	2
10	8-10-070220	Fitting. No. 8 JIC to No. 10 ORB 90 deg. Elbow	2
11	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight	2
12	KH20196	Check Valve. In-Line	1
13	8-8-070181	Fitting. No. 8 JIC Swivel to No. 8 ORB Straight	1
14	8-8-8-070429	Fitting. No. 8 ORB Swivel Branch 'T'	2
15	8-8-8-070432	Fitting. No. 8 JIC Swivel Run Tee	1
16	8-8-070220	Fitting. No. 8 JIC to No. ORB 90 deg. Elbow	1
17	KH00111	Fitting. No. 8 BSP to No. 8 JIC Straight	2
18	KH00185	Fitting. No. 8 JIC Diagnostic Port	1
19	8-8-070601	Fitting. No. 8 JIC Bulkhead Straight	2
20	KH00337	Fitting. No. 8 JIC No. 8 Swivel 90 deg. Elbow Long	1
NOTE 1 Items 1 (Qty:3) & 3 (Qty:1) are required with Non-Current Cutter Motor Polychain Belt. See Page 2-02 for belt info.			



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Hose Assemblies Hydraulic Tank, Pump & Filters - Current from Serial Number 164			
1	R200006	Hose Assembly. Main Pump to Tee. 'LS' on 4 & 5 Bank Valves	1
2	R200009	Hose Assembly. Arm Pump to Load Sense Port on 7 Bank Valves	1
3	R200084	Hose Assembly. Arm Pump to 7 Bank 'P' Port	1
4	R200008	Hose Assembly. Main Pump to Hydraulic Tank	1
5	A200002	Hose Assembly - Non Current up to Serial No. 169	1
	R100889	Hose Assembly - Current from Serial No. 170	1
6	R200082	Hose. Suction Feed 3 in. x 28 in.	1
7	R200086	Hose Assembly. Main Pump Tee to To 4 Bank Valves Port 'P'	1
8	R200083	Hose Assembly. Main Pump to Tee.	1
9	R200094	Hose. 3/4 in. Low Pressure Return	1
10	R200011	Hose Assembly. Oil Cooler to Hydraulic Tank Filter	1
11	R200010	Hose Assembly. 4 & 5 Bank Valves 'To' Port	1
12	R200004	Hose Assembly. Hydraulic Tank from Auxiliary Pump	1
13	R200014	Hose Assembly. Main Return	1
14	R200085	Hose Assembly. Main Pump Tee. To 5 Bank Valves Port 'P'	1
15	R200092	Hose Assembly. Main Pump 'LS' Tee. To 'LS' on 5 Bank Valves	1
16	R200093	Hose Assembly. Main Pump 'LS' Tee. To 'LS' on 4 Bank Valves	1

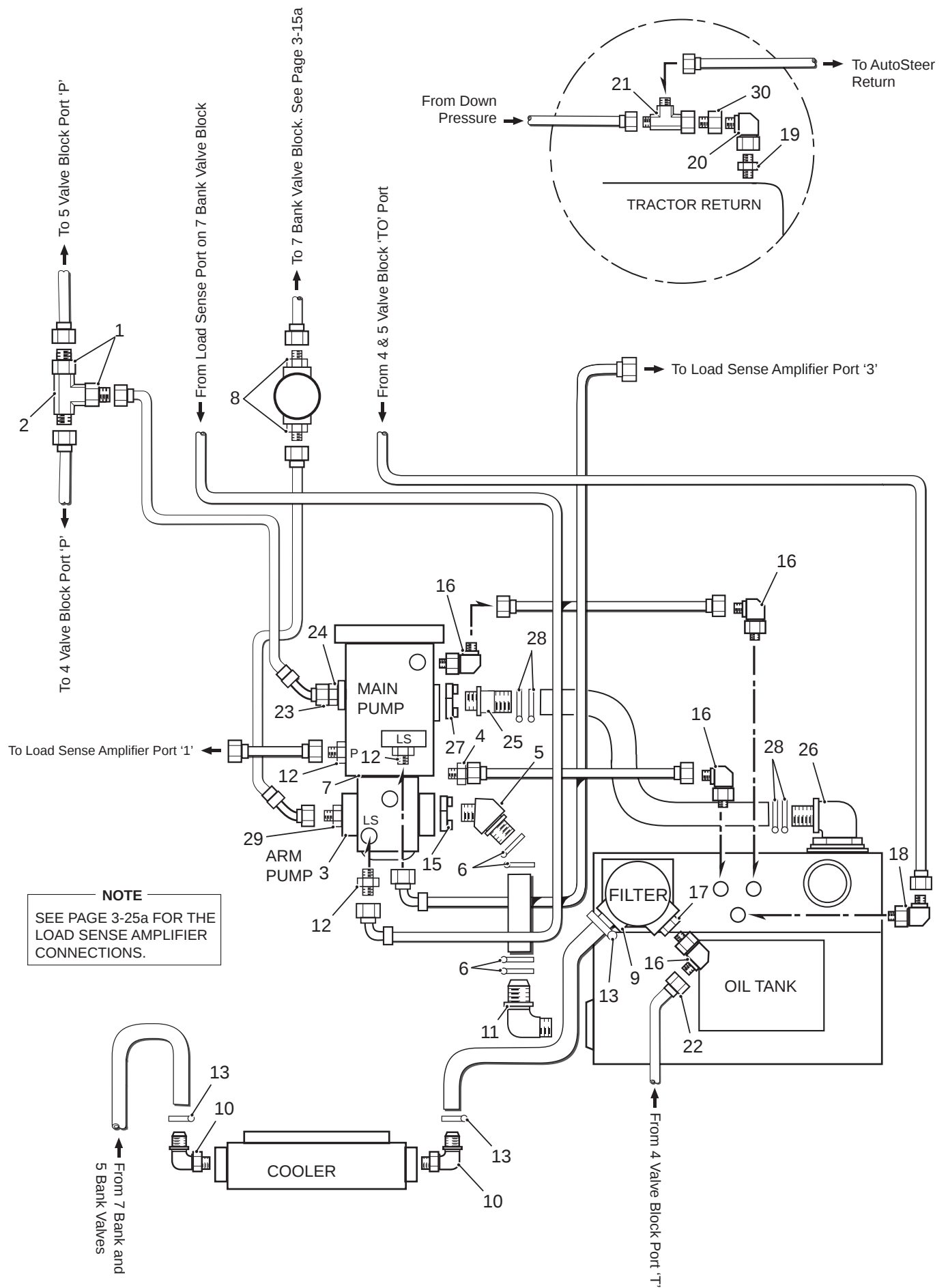


ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105, 6110 & 6115 Hydraulic Hose Assemblies - Hydraulic Tank, Pump & Filters			
1	R200234	Hose Assembly. Main Pump to Load Sense Amplifier Port 3	1
2	R200265	Hose Assembly. Arm Pump to LS Port on 7 Bank Valves	1
3	R200270	Hose Assembly. Arm Pump to Filter In	1
4	R200287	Hose Assembly. Main Pump to Hydraulic Tank	1
5	R200262	Hose Assembly. Arm Pump to Oil Tank	1
6	R200082	Hose. Suction Feed 3 in. x 28 in.	1
7	R200240	Hose Assembly. Main Pump Tee to To 4 Bank Valves Port 'P'	1
8	R200260	Hose Assembly. Main Pump to Tee.	1
9	R200241	Hose. 3/4 in. Low Pressure Return	1
10	R200011	Hose Assembly. Oil Cooler to Hydraulic Tank Filter	1
11	R200235	Hose Assembly. 4 & 5 Bank Valves 'To' Port	1
12	R200286	Hose Assembly. Hydraulic Tank from Arm Pump	1
13	R200263	Hose Assembly. Main Return	1
14	R200239	Hose Assembly. Main Pump Tee. To 5 Bank Valves Port 'P'	1
15	R200092	Hose Assembly. Main Pump 'LS' Tee. To 'LS' on 5 Bank Valves	1
16	R200093	Hose Assembly. Main Pump 'LS' Tee. To 'LS' on 4 Bank Valves	1
17	R200245	Hose Assembly. Solenoid Relief Valve to Tee on Tractor Return	1
18	R200271	Hose Assembly. Filter Out to 7 Bank 'P' Port	1

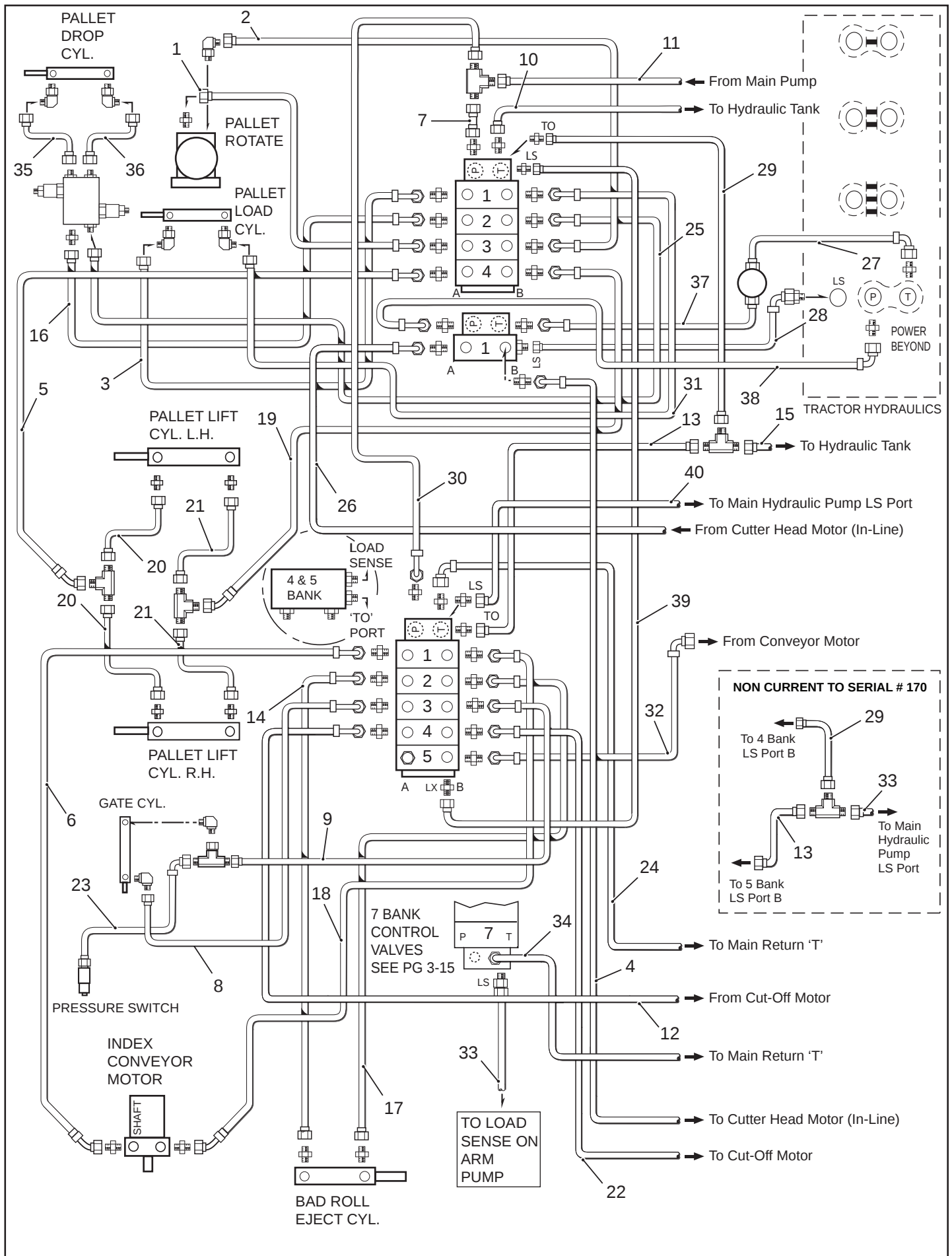


NOTE
SEE PAGE 3-25 FOR THE
LOAD SENSE AMPLIFIER
CONNECTIONS.

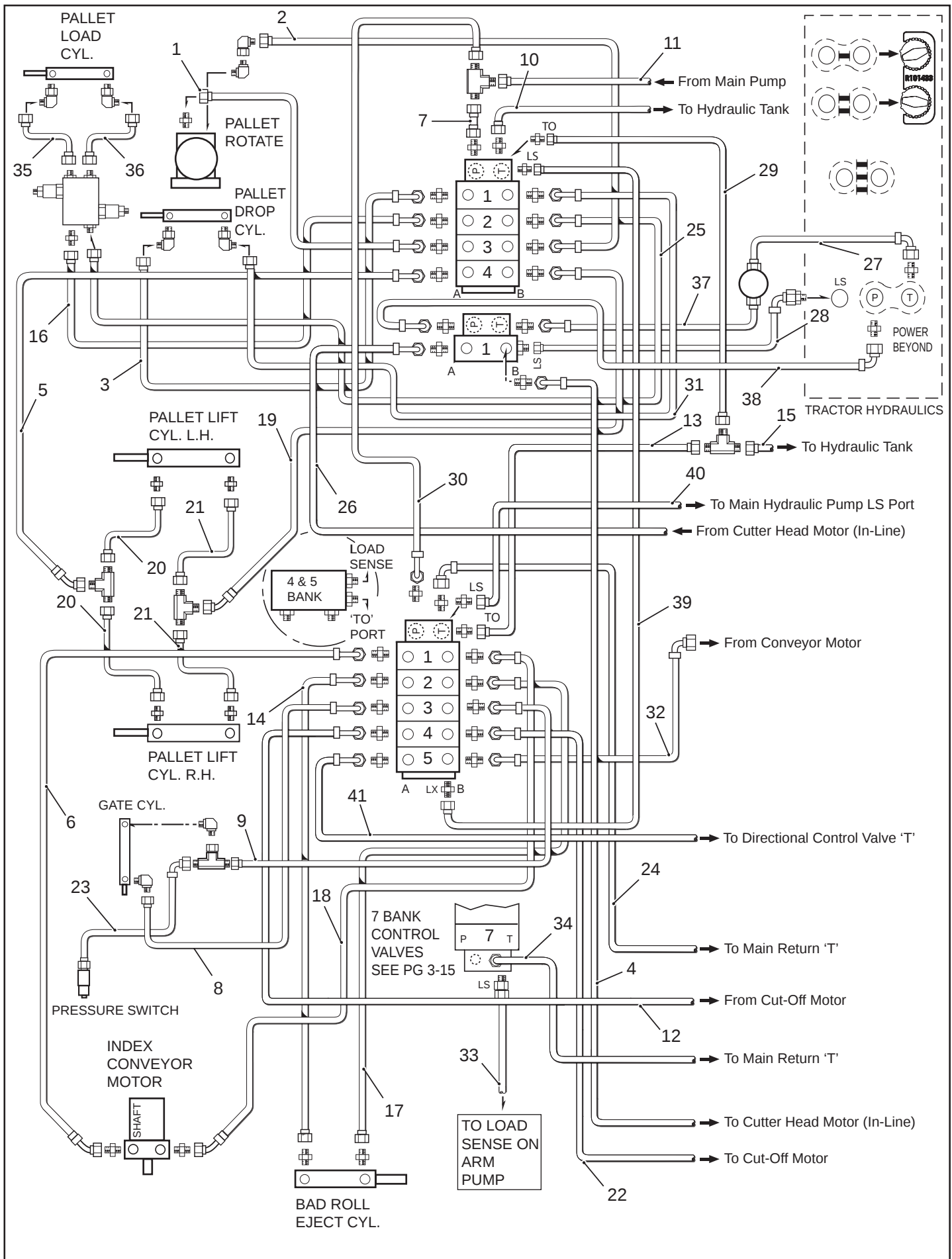
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Fittings Hydraulic Tank, Pump & Filters - Current from Serial Number 164			
1	20-12-070123	Fitting. No. 20 JIC F to No. 12 JIC Reducer	2
2	20-20-20-070401	Fitting. No. 20 JIC Branch Tee	1
3	KH00108	Split Flange. SF 3-16 (1 inch)	1
4	8-12-070120	Fitting. 1/2 Straight Thread 'O' Ring Connector	1
5	KH00310	Fitting 90 deg. - Non Current up to Serial No. 169	1
	KH00403	Fitting 45 deg. - Current from Serial No. 170	1
6	KM60016	Hose Clamp	4
7	KH80005	'O' Ring. Pump Interface	1
8	4-4-070120	Fitting. No. 4 ORB to No. 4 JIC Straight	3
9	20-24-430192	Fitting. No. 24 SAE to Hose Barb 1 1/4 in.	1
10	20-16-430292	Fitting. 1 1/4 Beaded Hose Barb x No. 16 ORB 90 deg. Elbow	2
11	32-32-430292	Fitting. 90 deg. Swivel Barb. 2 in. SAE x 2 in. Beaded Tube	1
12	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	2
13	KM60015	Hose Clamp. 1 1/4 in.	3
14	8-12-070220	Fitting. No. 8 JIC to No. 12 ORB 90 deg. Elbow	2
15	KH00133	Split Flange. SF 3-32 (2 inch)	1
16	12-12-070220	Fitting. No. 12 JIC to No. 12 ORB 90 deg. Elbow	1
17	A101142	Fitting. Adapter Bushing. No. 24 to No. 12 ORB	1
18	6-12-070220	Fitting. No. 6 JIC to No. 12 ORB 90 deg. Elbow	1
19	12-27-070187	Fitting. M27 x No. 12 JIC Straight Adapter	1
20	12-12-070221	Fitting. No. 12 JIC to No. 12 JIC Swivel 90 deg. Elbow	1
21	KH20176	Shuttle Valve	1
22	KH01109	Fitting. No. 12 JIC Swivel to 3/4 in. Hose Barb	1
23	KH00123	Fitting. Flange Adapter SF6-20 x 20 JIC 45 deg. Elbow - Code 62	1
24	KH00106	Fitting. Split Flange SF6-20 1 1/4	1
25	KH00103	Fitting. 2 1/2 in. NPT x 3 inch Hose Barb	1
26	KH00311	Hose Barb 3 in. NPT x 3 inch Hose 90 deg.	1
27	KH00105	Fitting. Flange Adapter 2 1/2 in. NPT	1
28	KH60010	Hose Clamp. M8 86-91	4



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax John Deere 6105, 6110 & 6115 Hydraulic System Fittings - Hydraulic Tank, Pump & Filters	
1	20-12-070123	Fitting. No. 20 JIC F to No. 12 JIC Reducer	2
2	20-20-20-070401	Fitting. No. 20 JIC Branch Tee	1
3	KH00108	Split Flange. SF 3-16 (1 inch)	1
4	12-10-070220	Fitting. 3/4 Straight Thread 'O' Ring 90 deg. Elbow	1
5	KH00403	Fitting. 45 deg.	1
6	KM60009	Hose Clamp. 64-67	4
7	KH80005	'O' Ring. Pump Interface	1
8	12-12-070120	Fitting. Straight Thread O-Ring Connector SAE 37 deg. (JIC) Flare-Twin	2
9	20-24-430192	Fitting. No. 24 SAE to Hose Barb 1 1/4 in.	1
10	20-16-430292	Fitting. 1 1/4 Beaded Hose Barb x No. 16 ORB 90 deg. Elbow	2
11	32-32-430292	Fitting. 90 deg. Swivel Barb. 2 in. SAE x 2 in. Beaded Tube	1
12	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	3
13	KM60015	Hose Clamp. 40-43	3
14	8-12-070220	Fitting. No. 8 JIC to No. 12 ORB 90 deg. Elbow	2
15	KH00133	Split Flange. SF 3-32 (2 inch)	1
16	12-12-070220	Fitting. No. 12 JIC to No. 12 ORB 90 deg. Elbow	4
17	A101142	Fitting. Adapter Bushing. No. 24 to No. 12 ORB	1
18	6-12-070220	Fitting. No. 6 JIC to No. 12 ORB 90 deg. Elbow	1
19	12-27-070187	Fitting. M27 x No. 12 JIC Straight Adapter	1
20	12-12-070221	Fitting. No. 12 JIC to No. 12 JIC Swivel 90 deg. Elbow	1
21	8-8-8-070432	Fitting. No. 8 JIC Swivel Nut Run Tee	1
22	KH01109	Fitting. No. 12 JIC Swivel to 3/4 in. Hose Barb	1
23	KH00123	Fitting. Flange Adapter SF6-20 x 20 JIC 45 deg. Elbow - Code 62	1
24	KH00106	Fitting. Split Flange SF6-20 1 1/4	1
25	KH00103	Fitting. 2 1/2 in. NPT x 3 inch Hose Barb	1
26	KH00311	Hose Barb 3 in. NPT x 3 inch Hose 90 deg.	1
27	KH00105	Fitting. Flange Adapter 2 1/2 in. NPT	1
28	KH60010	Hose Clamp. M8 86-91	4
29	KH00324	Fitting. Split Flange - 1 in. JIC 90 deg.	1
30	12-8-070123	Fitting. No. 12 Reducer SAE 37 deg. Flare Twin	1



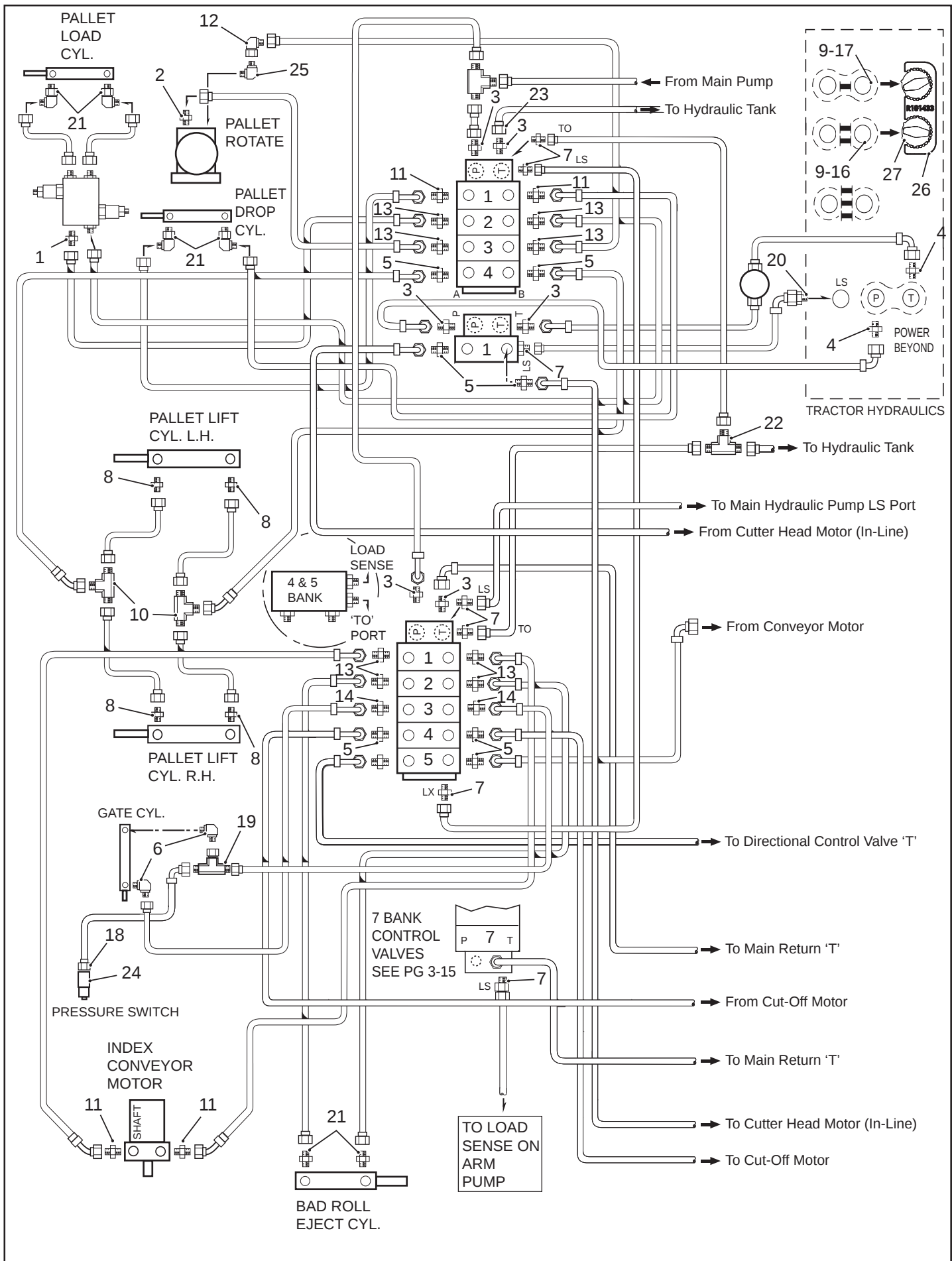
ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Hose Assemblies Rear Valves, Motors & Cylinders - Current from Serial Number 171			
1	R200045	Hose Assembly. Pallet Rotate to 4 Bank Valves	1
2	R200046	Hose Assembly. 4 Bank Valves to Pallet Rotate	1
3	R200047	Hose Assembly. Pallet Load Cylinder to 4 Bank Valves	1
4	R200088	Hose Assembly. 1 Bank Valve to Cutter Head Motor Pressure	1
5	R200079	Hose Assembly. Tee-Pallet Lift Cylinders to 4 Bank Valves	1
6	R200074	Hose Assembly. Index Conveyor from 5 Bank Valves	1
7	R200086	Hose Assembly. Main Pump Tee to 4 Bank 'P' Port	1
8	R200077	Hose Assembly. 5 Bank Valves to Gate Cylinder	1
9	R200076	Hose Assembly. Gate Cylinder to 5 Bank Valves	1
10	R200094	Hose Assembly. 4 Bank Valves to Hydraulic Tank	1
11	R200083	Hose Assembly. 4 Bank Valves to Main Pump	1
12	R200058	Hose Assembly. Cut-Off Motor to 4 Bank Valves	1
13	R200092	Hose Assembly. Valve Banks from Shuttle Valve 12 in.	1
14	R200072	Hose Assembly. Bad Roll Eject Cylinder to 5 Bank Valves	1
15	R200010	Hose Assembly. 'TO' Return to Hydraulic Tank	1
16	R200049	Hose Assembly. 4 Bank Valves to Pallet Drop Cylinder	1
17	R200073	Hose Assembly. 5 Bank Valvesto Bad Roll Eject Cylinder	1
18	R200075	Hose Assembly. 5 Bank Valves to Index Conveyor Motor	1
19	R200069	Hose Assembly. 4 Bank Valves to Tee-Pallet Lift Cylinders	1
20	R200070	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
21	R200071	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
22	R200059	Hose Assembly. 5 Bank Valves to Cut-Off	1
23	R200078	Hose Assembly. Gate Cylinder to Pressure Switch	1
24	R200016	Hose Assembly. 5 Bank Valves to Tee (Oil Cooler)	1
25	R200050	Hose Assembly. Pallet Drop Cylinder from 4 Bank Valves	1
26	R200087	Hose Assembly. Cutter Motor to 1 Bank Valve Return	1
27	R200020	Hose Assembly. Filter to Tractor Power Beyond Port 'T'	1
28	R200091	Hose Assembly. 1 Bank Valve to Load Sense	1
29	R200093	Hose Assembly. Valve Banks to Shuttle Valve 24 in.	1
30	R200085	Hose Assembly. Main Pump Pressure Tee to 5 Bank 'P' Port	1
31	R200047	Hose Assembly. 4 Bank Valves to Pallet Load Cylinder	1
32	R200067	Hose Assembly. Conveyor Motor to 5 Bank Valves	1
33	R200006	Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump - Current	1
		Hose Assembly. Shuttle Valve from Main Pump - N.C. to Serial # 170	1
34	R200015	Hose Assembly. 7 Bank Valves to Tee (Oil Cooler)	1
35	R200051	Hose Assembly. Relief Valve to Pallet Drop Cylinder	1
36	R200052	Hose Assembly. Relief Valve to Pallet Drop Cylinder	1
37	R200090	Hose Assembly. Filter to 1 Bank Valve Port 'T'	1
38	R200089	Hose Assembly. 1 Bank Valve to Power Beyond Port 'P'	1
39	R200104	Hose Assembly. 5 Bank LX to 4 Bank LS - Current	1
40	R200009	Hose Assembly. Load Sense Main Pump to Manifold - Current	1
		Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump - N.C.	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 & 6115 Hydraulic Hose Assemblies - Rear Valves, Motors & Cylinders			
1	R200045	Hose Assembly. Pallet Rotate to 4 Bank Valves	1
2	R200046	Hose Assembly. 4 Bank Valves to Pallet Rotate	1
3	R200047	Hose Assembly. Pallet Load Cylinder to 4 Bank Valves	1
4	R200243	Hose Assembly. 1 Bank Valve to Cutter Head Motor Pressure	1
5	R200079	Hose Assembly. Tee-Pallet Lift Cylinders to 4 Bank Valves	1
6	R200074	Hose Assembly. Index Conveyor from 5 Bank Valves	1
7	R200240	Hose Assembly. Main Pump Tee to 4 Bank 'P' Port	1
8	R200077	Hose Assembly. 5 Bank Valves to Gate Cylinder	1
9	R200076	Hose Assembly. Gate Cylinder to 5 Bank Valves	1
10	R200241	Hose Assembly. 4 Bank Valves to Hydraulic Tank	1
11	R200260	Hose Assembly. Main Pump to 'T'	1
12	R200058	Hose Assembly. Cut-Off Motor to 5 Bank Valves	1
13	R200092	Hose Assembly. Valve Banks from Shuttle Valve 12 in.	1
14	R200072	Hose Assembly. Bad Roll Eject Cylinder to 5 Bank Valves	1
15	R200235	Hose Assembly. 'TO' Return to Hydraulic Tank	1
16	R200049	Hose Assembly. 4 Bank Valves to Pallet Drop Cylinder	1
17	R200073	Hose Assembly. 5 Bank Valvesto Bad Roll Eject Cylinder	1
18	R200075	Hose Assembly. 5 Bank Valves to Index Conveyor Motor	1
19	R200069	Hose Assembly. 4 Bank Valves to Tee-Pallet Lift Cylinders	1
20	R200070	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
21	R200071	Hose Assembly. Tee to Pallet Lift Cylinder L.H.	2
22	R200059	Hose Assembly. 5 Bank Valves to Cut-Off	1
23	R200078	Hose Assembly. Gate Cylinder to Pressure Switch	1
24	R200237	Hose Assembly. 5 Bank Valves to Tee (Oil Cooler)	1
25	R200050	Hose Assembly. Pallet Drop Cylinder from 4 Bank Valves	1
26	R200244	Hose Assembly. Cutter Motor to 1 Bank Valve Return	1
27	R200242	Hose Assembly. Filter to Tractor Power Beyond Port 'T'	1
28	R200091	Hose Assembly. 1 Bank Valve to Load Sense	1
29	R200093	Hose Assembly. Valve Banks to Shuttle Valve 24 in.	1
30	R200239	Hose Assembly. Main Pump Pressure Tee to 5 Bank 'P' Port	1
31	R200048	Hose Assembly. 4 Bank Valves to Pallet Load Cylinder	1
32	R200134	Hose Assembly. Conveyor Motor to 5 Bank Valves	1
33	R200265	Hose Assembly. 7 Bank Valves to Load Sense on Arm Pump	1
34	R200015	Hose Assembly. 7 Bank Valves to Tee (Oil Cooler)	1
35	R200051	Hose Assembly. Relief Valve to Pallet Drop Cylinder	1
36	R200052	Hose Assembly. Relief Valve to Pallet Drop Cylinder	1
37	R200259	Hose Assembly. Filter to 1 Bank Valve Port 'T'	1
38	R200249	Hose Assembly. 1 Bank Valve to Power Beyond Port 'P'	1
39	R200104	Hose Assembly. 5 Bank LX to 4 Bank LS	1
40	R200234	Hose Assembly. Load Sense Main Pump to Manifold	1
41	R200130	Hose Assembly. 5 Bank Port A to Directional Control Valve 'T'	1

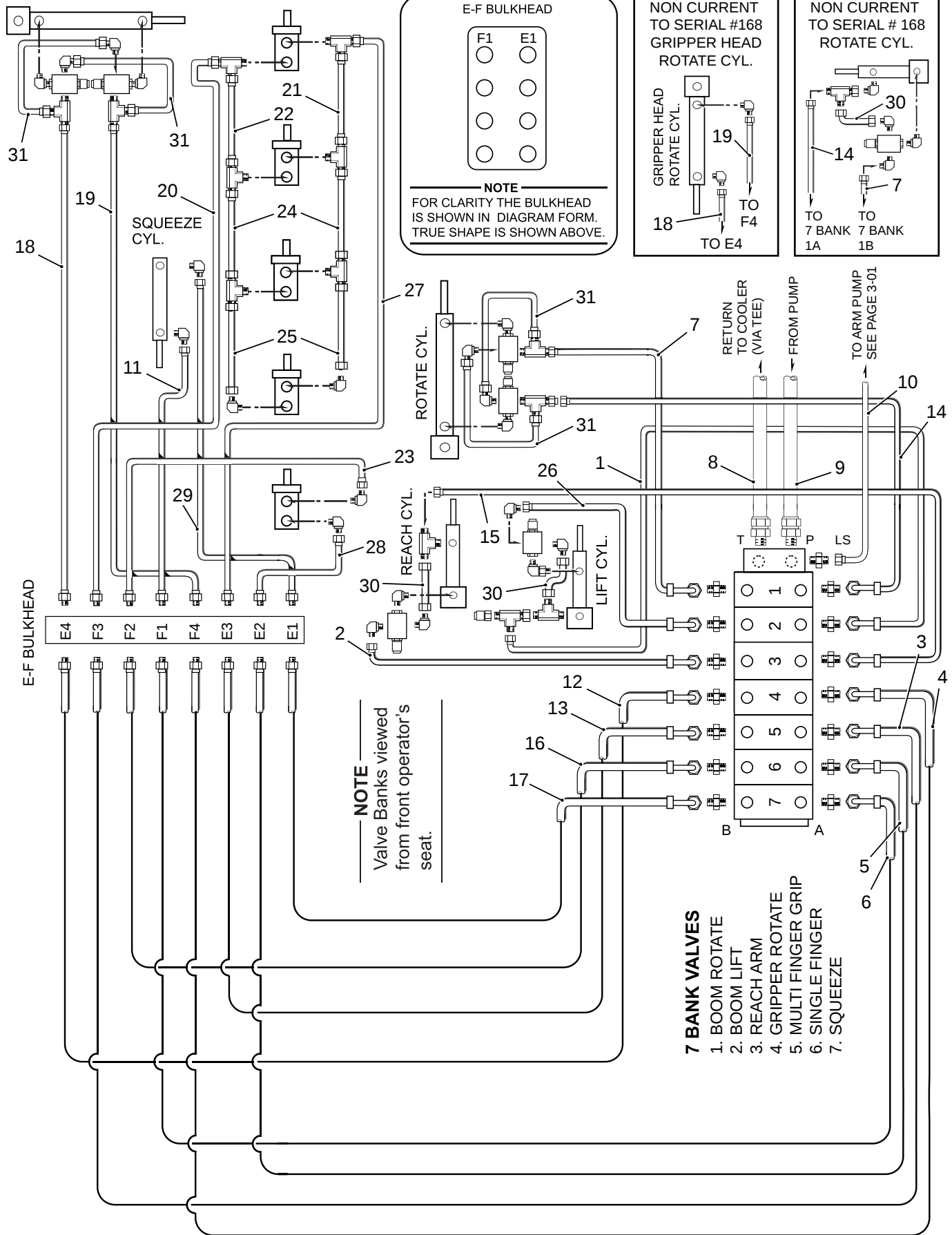


ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Components & Fittings Rear Valves, Motors & Cylinders - Current from Serial Number 171			
1	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	4
2	6-4-070120	Fitting. No. 6 JIC to No. 4 ORB Straight	1
3	12-12-070120	Fitting. No. 12 JIC to No. 12 ORB Straight	6
4	12-22-070187	Fitting. No. 12 JIC to M22 Male	2
5	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	7
6	4-4-070220	Fitting. No. 4 JIC to No. 4 ORB 90 deg. Elbow	2
7	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	7
8	6-8-070220	Fitting. No. 6 JIC to No. 8 - 90 deg. Elbow	4
9	MH10004	Fitting. Quick Connex x 1/2 NPT	4
10	8-8-8-070401	Fitting. No. 8 JIC 'T'	2
11	6-10-070220	Fitting. No. 6 JIC to No. 10 - 90 deg. Elbow	4
12	6-4-070220	Fitting. No. 6 JIC to No. 4 - 90 deg. Elbow	1
13	6-10-070120	Fitting. No. 6 JIC to No. 10 ORB Straight	8
14	6-10-070320	Fitting. No. 6 JIC to No. 10 ORB 45 deg. Elbow	2
15	8-070112	Fitting. No. 8 JIC Cap	1
16	6-8-070102	Fitting. No. 6 JIC to 1/2 NPT Male	2
17	8-8-070102	Fitting. No. 8 JIC to 1/2 NPT Male	2
18	6-6-070181	Fitting. No. 6 ORB to No. 6 JIC Swivel	1
19	4-4-4-070433	Fitting. No. 4 JIC Swivel Branch 'T'	1
20	6-14-070187	Fitting. No. 6 JIC to M14 Male	1
21	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	6
22	4-4-4-070401	Fitting. No. 4 Tee	1
23	4-4-070120	Fitting. No. 4 JIC to No. 4 ORB Straight - Non Current to Serial # 170	3
24	KH20176	Shuttle Valve - Non Current to Serial # 170	1



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 & 6115 Hydraulic System Fittings - Rear Valves, Motors & Cylinders			
1	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	4
2	6-4-070120	Fitting. No. 6 JIC to No. 4 ORB Straight	1
3	12-12-070120	Fitting. No. 12 JIC to No. 12 ORB Straight	6
4	12-22-070187	Fitting. No. 12 JIC to M22 Male	2
5	8-10-070120	Fitting. No. 8 JIC to No. 10 ORB Straight	6
6	4-4-070220	Fitting. No. 4 JIC to No. 4 ORB 90 deg. Elbow	2
7	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	7
8	6-8-070220	Fitting. No. 6 JIC to No. 8 - 90 deg. Elbow	4
9	MH10004	Fitting. Quick Connex x 1/2 NPT	4
10	8-8-8-070401	Fitting. No. 8 JIC 'T'	2
11	6-10-070220	Fitting. No. 6 JIC to No. 10 - 90 deg. Elbow	2
12	6-4-070220	Fitting. No. 6 JIC to No. 4 - 90 deg. Elbow	1
13	6-10-070120	Fitting. No. 6 JIC to No. 10 ORB Straight	8
14	6-10-070320	Fitting. No. 6 JIC to No. 10 ORB 45 deg. Elbow	2
15	8-10-070220	Fitting. No. 8 JIC to No. 10 - 90 deg. Elbow	2
16	6-8-070102	Fitting. No. 6 JIC to 1/2 NPT Male	2
17	8-8-070102	Fitting. No. 8 JIC to 1/2 NPT Male	2
18	6-6-070181	Fitting. No. 6 ORB to No. 6 JIC Swivel	1
19	4-4-4-070433	Fitting. No. 4 JIC Swivel Branch 'T'	1
20	6-14-070187	Fitting. No. 6 JIC to M14 Male	1
21	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	6
22	4-4-4-070401	Fitting. No. 4 Tee	1
23	KH01109	Fitting. No. 12 JIC Swivel Hose	1
24	R101661	Fitting. Pressure Switch Assembly	1
25	6-6-070221	Fitting. 3/8 Swivel Nut 90 deg. Elbow	1
26	R101433	Flow Control Lock Mount	1
27	R101432	Flow Control Lock	2

GRIPPER HEAD ROTATE CYL.



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Hose Assemblies Robotic Arm - Current from Serial Number 169			
1	R200033	Hose Assembly. 7 Bank Valves to Lift Cylinder Cap	1
2	R200031	Hose Assembly. 7 Bank Valves to Reach Cylinder	1
3	R200029	Hose Assembly. 7 Bank Valves to E-F Bulkhead F4	1
4	R200027	Hose Assembly. 7 Bank Valves to E-F Bulkhead F3	1
5	R200024	Hose Assembly. 7 Bank Valves to E-F Bulkhead E2	1
6	R200022	Hose Assembly. 7 Bank Valves to E-F Bulkhead F1	1
7	R200080	Hose Assembly. 7 Bank Valves to Rotate Cylinder	1
8	R200015	Hose Assembly. 7 Bank Valves Return	1
9	R200084	Hose Assembly. Arm Valve Bank 'P' Port from Pump	1
10	R200009	Hose Assembly. Load Sense to Arm Pump	1
11	2692335-01	Hose Assembly. E-F Bulkhead E1 to Squeeze Cylinder Cap	1
12	R200026	Hose Assembly. 7 Bank Valves to E-F Bulkhead E3	1
13	R200028	Hose Assembly. 7 Bank Valves to E-F Bulkhead E4	1
14	R200081	Hose Assembly. 7 Bank Valves to Rotate Cylinder Load Control Valve	1
15	R200030	Hose Assembly. 7 Bank Valves to Reach Cylinder Load Control Valve	1
16	R200025	Hose Assembly. 7 Bank Valves to E-F Bulkhead F2	1
17	R200023	Hose Assembly. 7 Bank Valves to E-F Bulkhead E1	1
18	2692304-09	Hose Assembly. E-F Bulkhead E4 to Gripper Head Rotate Cylinder Rod	1
19	2692304-08	Hose Assembly. Gripper Head Rotate from E-F Bulkhead Cap F4	1
20	2692304-14	Hose Assembly. E-F Bulkhead F2 to Tee (Gripper Cylinder) Cap	1
21	2692304-12	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	1
22	2692307-03	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	1
23	2692307-02	Hose Assembly. E-F Bulkhead F3 to Gripper Cylinder	1
24	2692304-11	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	2
25	2692304-13	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	2
26	R200032	Hose Assembly. 7 Bank Valves to Lift Cylinder Rod	1
27	2692307-04	Hose Assembly. Tee (Gripper Cylinder from E-F Bulkhead E2 Rod	1
28	2692307-01	Hose Assembly. E-F Bulkhead E3 to Gripper Cylinder	1
29	2692307-05	Hose Assembly. Squeeze Cylinder from E-F Bulkhead F1 Rod	1
30	R200095	Hose Assembly. Counter Balance Valve	2
31	R200117	Hose Assembly. Counter Balance Valve - Current from Serial No. 169	4

E-F BULKHEAD

7 BANK VALVES

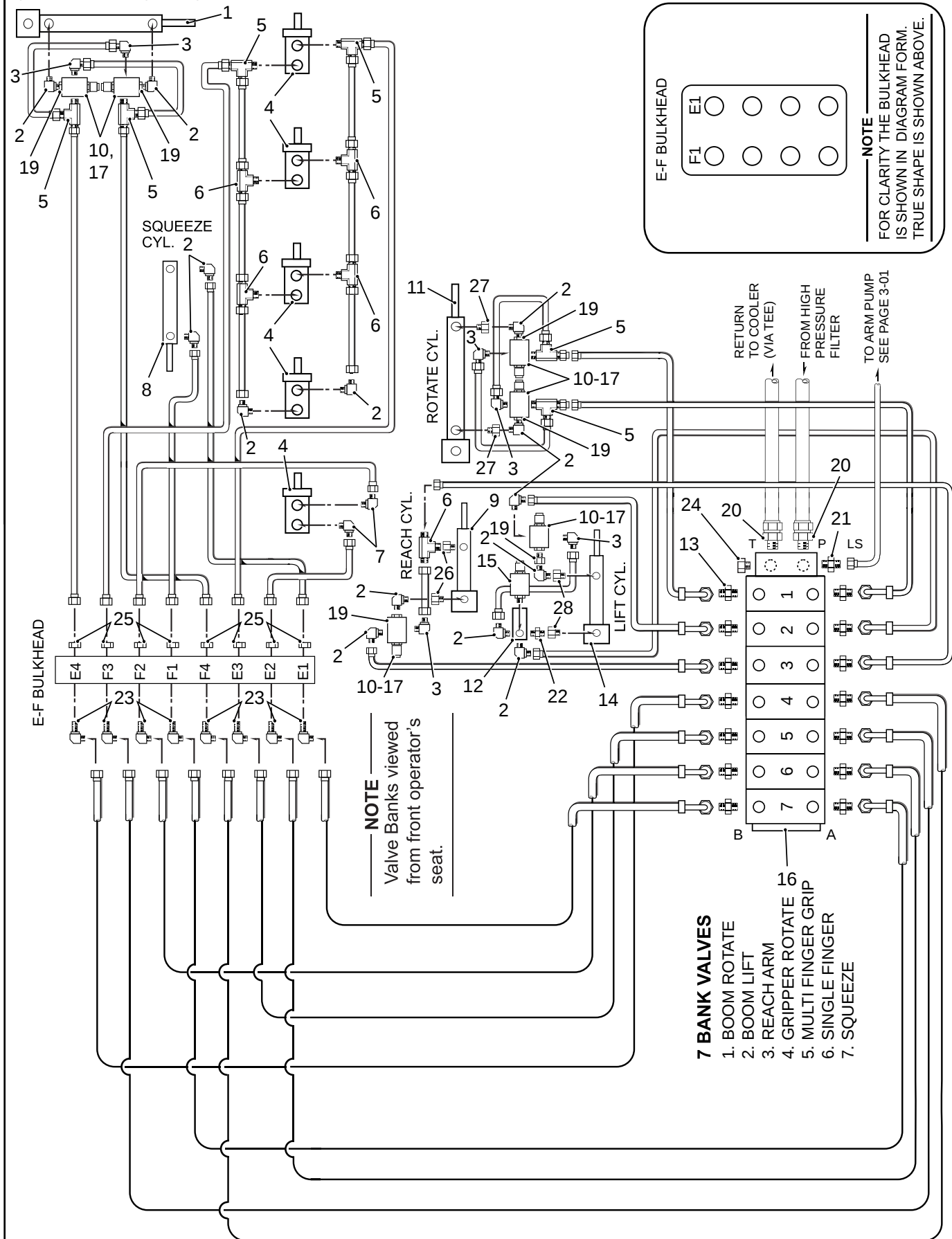
1. BOOM ROTATE
2. BOOM LIFT
3. REACH ARM
4. GRIPPER ROTATE
5. MULTI FINGER GRIP
6. SINGLE FINGER
7. SQUEEZE

NOTE
FOR CLARITY THE BULKHEAD IS SHOWN IN DIAGRAM FORM. TRUE SHAPE IS SHOWN ABOVE.

ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 & 6115 Hydraulic Hose Assemblies - Robotic Arm			
1	R200033	Hose Assembly. 7 Bank Valves to Lift Cylinder Cap	1
2	R200031	Hose Assembly. 7 Bank Valves to Reach Cylinder	1
3	R200026	Hose Assembly. 7 Bank Valves to E-F Bulkhead F4	1
4	R200028	Hose Assembly. 7 Bank Valves to E-F Bulkhead F3	1
5	R200025	Hose Assembly. 7 Bank Valves to E-F Bulkhead E2	1
6	R200023	Hose Assembly. 7 Bank Valves to E-F Bulkhead F1	1
7	R200080	Hose Assembly. 7 Bank Valves to Rotate Cylinder	1
8	R200015	Hose Assembly. 7 Bank Valves Return	1
9	R200271	Hose Assembly. Arm Valve Bank 'P' Port from High Pressure Filter	1
10	R200265	Hose Assembly. Load Sense to Arm Pump	1
11	2692307-05	Hose Assembly. Squeeze Cylinder from E-F Bulkhead F1 Rod	1
12	R200029	Hose Assembly. 7 Bank Valves to E-F Bulkhead E3	1
13	R200027	Hose Assembly. 7 Bank Valves to E-F Bulkhead E4	1
14	R200081	Hose Assembly. 7 Bank Valves to Rotate Cylinder Load Control Valve	1
15	R200030	Hose Assembly. 7 Bank Valves to Reach Cylinder Load Control Valve	1
16	R200024	Hose Assembly. 7 Bank Valves to E-F Bulkhead F2	1
17	R200022	Hose Assembly. 7 Bank Valves to E-F Bulkhead E1	1
18	2692304-09	Hose Assembly. E-F Bulkhead E4 to Gripper Head Rotate Cylinder Rod	1
19	2692304-08	Hose Assembly. Gripper Head Rotate from E-F Bulkhead Cap F4	1
20	2692304-14	Hose Assembly. E-F Bulkhead F2 to Tee (Gripper Cylinder) Cap	1
21	2692304-12	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	1
22	2692307-03	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	1
23	2692307-01	Hose Assembly. E-F Bulkhead E2 to Gripper Cylinder	1
24	2692304-11	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	2
25	2692304-13	Hose Assembly. Gripper Cylinder Tee to Gripper Cylinder Tee	2
26	R200032	Hose Assembly. 7 Bank Valves to Lift Cylinder Rod	1
27	2692307-04	Hose Assembly. Tee (Gripper Cylinder from E-F Bulkhead E2 Rod	1
28	2692307-02	Hose Assembly. E-F Bulkhead F2 to Gripper Cylinder	1
29	2692335-01	Hose Assembly. E-F Bulkhead E1 to Squeeze Cylinder Cap	1
30	R200095	Hose Assembly. Counter Balance Valve	2
31	R200103	Hose Assembly. Counter Balance Valve	4

ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere Hydraulic System Components & Fittings Robotic Arm - Current from Serial Number 169			
1	R500012	Gripper Head Turn Cylinder	1
	KH70114	Seal Kit	6
2	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	8
3	4-4-070220	Fitting. No. 4 JIC to No. 4 ORB 90 deg. Elbow	6
4	4128723	Cylinder. Face Mount	5
5	6-6-6-070428	Fitting. No. 6 ORB Swivel Run 'T'	7
6	6-6-6-070429	Fitting. No. 6 JIC Swivel Branch 'T'	5
7	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	6
8	4128874	Cylinder. Squeeze	1
9	R500015	Cylinder. Reach	1
	KH70115	Seal Kit	1
10	KH20184	Counter Balance Valve Body	6
11	R500013	Cylinder. Arm Turn	1
	KH70115	Seal Kit	1
12	16-12-070120	Fitting. No. 16 JIC to No. 12 ORB Straight	1
13	6-10-070120	Fitting. No. 6 JIC to No. 10 ORB Straight	14
14	R500014	Cylinder. Lift	1
	KH70116	Seal Kit	1
15	4134283	Pressure Switch	1
16	KH20194	Robotic Arm PVG Valve Bank	1
17	KH20222	Counter Balance Valve Spool	4
18	6-6-6-070432	Fitting. No. 6 JIC Swivel Branch 'T'	1
19	6-6-070181	Fitting. No. 6 JIC to No. 6 Swivel	5
20	12-12-070120	Fitting. No. 12 JIC to No. 12 ORB Straight	1
21	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	1

GRIPPER HEAD ROTATE CYL.



ITEM NO.	PART NO.	DESCRIPTION	QTY
RoboMax John Deere 6105 & 6115 Hydraulic System Components & Fittings - Robotic Arm			
1	R500012	Gripper Head Turn Cylinder	1
	KH70114	Seal Kit	6
2	6-6-070220	Fitting. No. 6 JIC to No. 6 ORB 90 deg. Elbow	14
3	4-4-070220	Fitting. No. 4 JIC to No. 4 ORB 90 deg. Elbow	6
4	4128723	Cylinder. Face Mount	5
5	6-6-6-070428	Fitting. No. 6 ORB Swivel Run 'T'	7
6	6-6-6-070429	Fitting. No. 6 JIC Swivel Branch 'T'	5
7	6-6-070120	Fitting. No. 6 JIC to No. 6 ORB Straight	2
8	4128874	Cylinder. Squeeze	1
9	R500015	Cylinder. Reach	1
	KH70115	Seal Kit	1
10	KH20184	Counter Balance Valve Body	6
11	R500013	Cylinder. Arm Turn	1
	KH70115	Seal Kit	1
12	4160892	Manifold Block	1
13	6-10-070120	Fitting. No. 6 JIC to No. 10 ORB Straight	14
14	R500014	Cylinder. Lift	1
	KH70116	Seal Kit	1
15	R101661	Pressure Switch Assembly	1
16	KH20194	Robotic Arm PVG Valve Bank	1
17	KH20222	Counter Balance Valve Spool	4
18	6-6-6-070432	Fitting. No. 6 JIC Swivel Branch 'T'	1
19	6-6-070181	Fitting. No. 6 JIC to No. 6 Swivel	6
20	12-12-070120	Fitting. No. 12 JIC to No. 12 ORB Straight	2
21	4-5-070120	Fitting. No. 4 JIC to No. 5 ORB Straight	1
22	KH00176	Fitting. No. 6 Male ORB to No. 6 Male ORB	1
23	6-6-070701	Fitting. No. 6 Male JIC 90 deg. Bulkhead Unit	8
24	KH00181	Fitting. No. 5 SAE ORB Diagnostic Port	1
25	6070118	Fitting. 3/8 Bulkhead Nut	8
26	R500275	Fitting. Reach Cylinder Orifice 0.063	2
27	R500276	Fitting. Turn Cylinder Orifice 0.076	2
28	R500277	Fitting. Lift Cylinder Orifice 0.101	2

NOTE 1

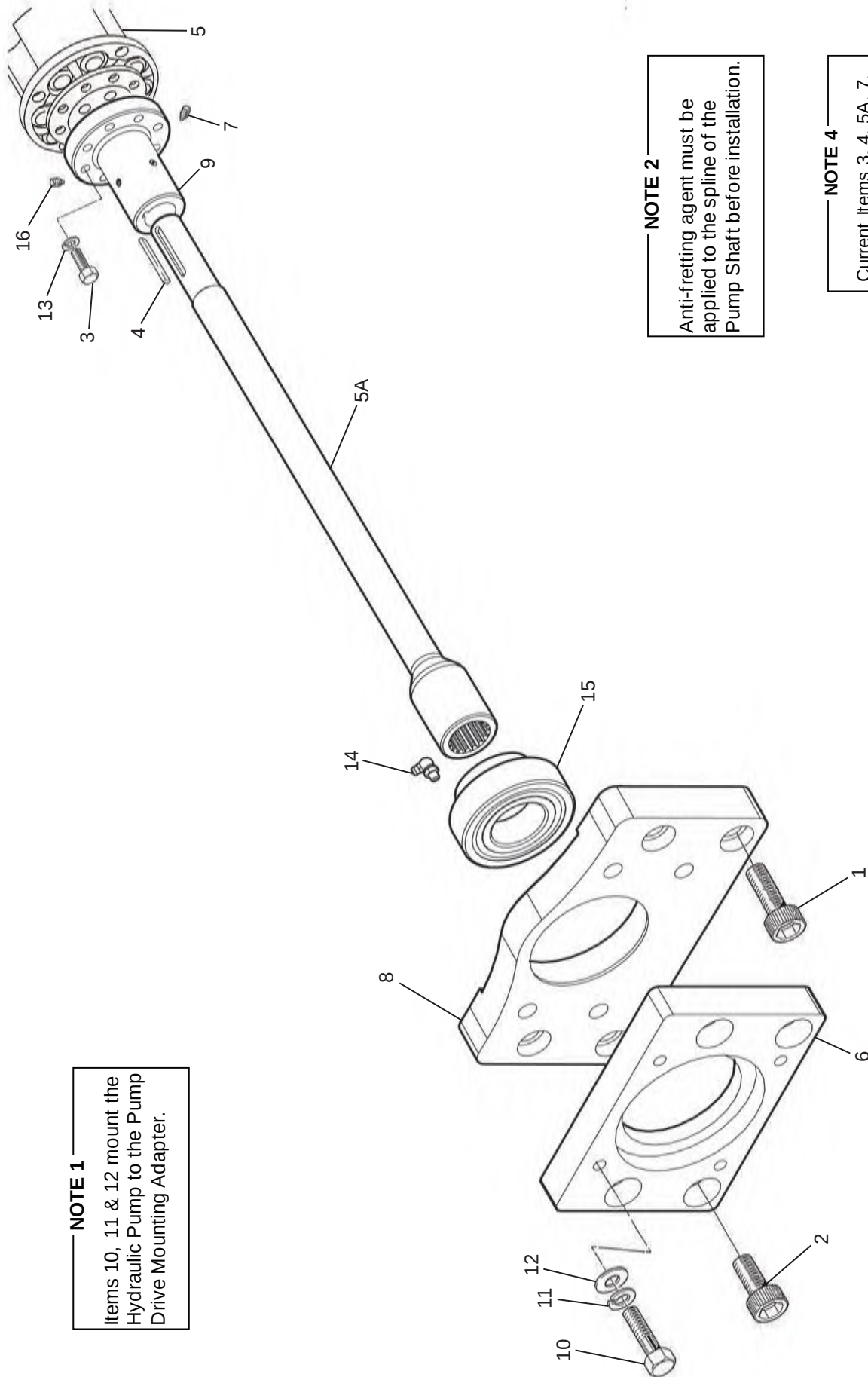
Items 10, 11 & 12 mount the Hydraulic Pump to the Pump Drive Mounting Adapter.

NOTE 2

Anti-fretting agent must be applied to the spline of the Pump Shaft before installation.

NOTE 4

Current Items 3, 4, 5A, 7, 8, 9, 13, 14, 15 & 16 are available as Pump Drive Assembly Service Kit - A500258



ITEM NO.	PART NO.	DESCRIPTION	QTY
		RoboMax John Deere PUMP DRIVE ASSEMBLY	
1	G1820060	Bolt M20 x 2.5 x 60 (Metric)	4
2	G1820040	Bolt M20 x 2.5 x 40 (Metric)	4
3	G0108030	Bolt M8 x 1.25 x 30 (Metric)	8
4	F924412	Key 1/4 x 1/4 x 1 1/4 - Obsolete	1
	F924420	Key 1/4 x 1/4 x 2 - Current from Serial No. 188	1
5	KN02018	Adapter. Shaft Flange	1
5A	R300041	Shaft - John Deere - Non Current	1
	A300279	Shaft - John Deere - Current from Serial No. 188	1
6	A100144	Adapter Plate	1
7	A101360	Set Screw 3/8 unc x 3/8 Lg. - Obsolete	2
	F140503	Set Screw 5/16 unc x 3/8 - Current from Serial No. 188	1
8	A101360	Pump Mount - Obsolete	1
	A101570	Pump Mount - Current from Serial No. 188	1
9	A101361	Pump Shaft Flange - Obsolete	1
	A101571	Pump Shaft Flange - Current from Serial No. 188	1
10	F040820	Bolt 1/2 unc x 2 Gr.8	4
11	F310800	Lockwasher	4
12	F320800	Flatwasher	4
13	G310800	Lockwasher M8	8
14	KM11490	Grease Fitting 90 deg. - Current from Serial No. 188	1
15	KB16255	Bearing - 55mm - Current from Serial No. 188	1
16	F140502	Set Screw 5/16 unc x 1/4 - Current from Serial No. 188	1
NOTE 1 Items 10, 11 & 12 mount the Hydraulic Pump to the Pump Drive Mounting Adapter. NOTE 2 Anti-fretting agent must be applied to the spline of the Pump Shaft before installation. NOTE 3 Item 5 includes; Qty Bolt - G0100090 4 Lockwasher - G310100 4 NOTE 4 Current Items 3, 4, 5A, 7, 8, 9, 13, 14, 15 & 16 are available as Pump Drive Assembly Service Kit - A500258			