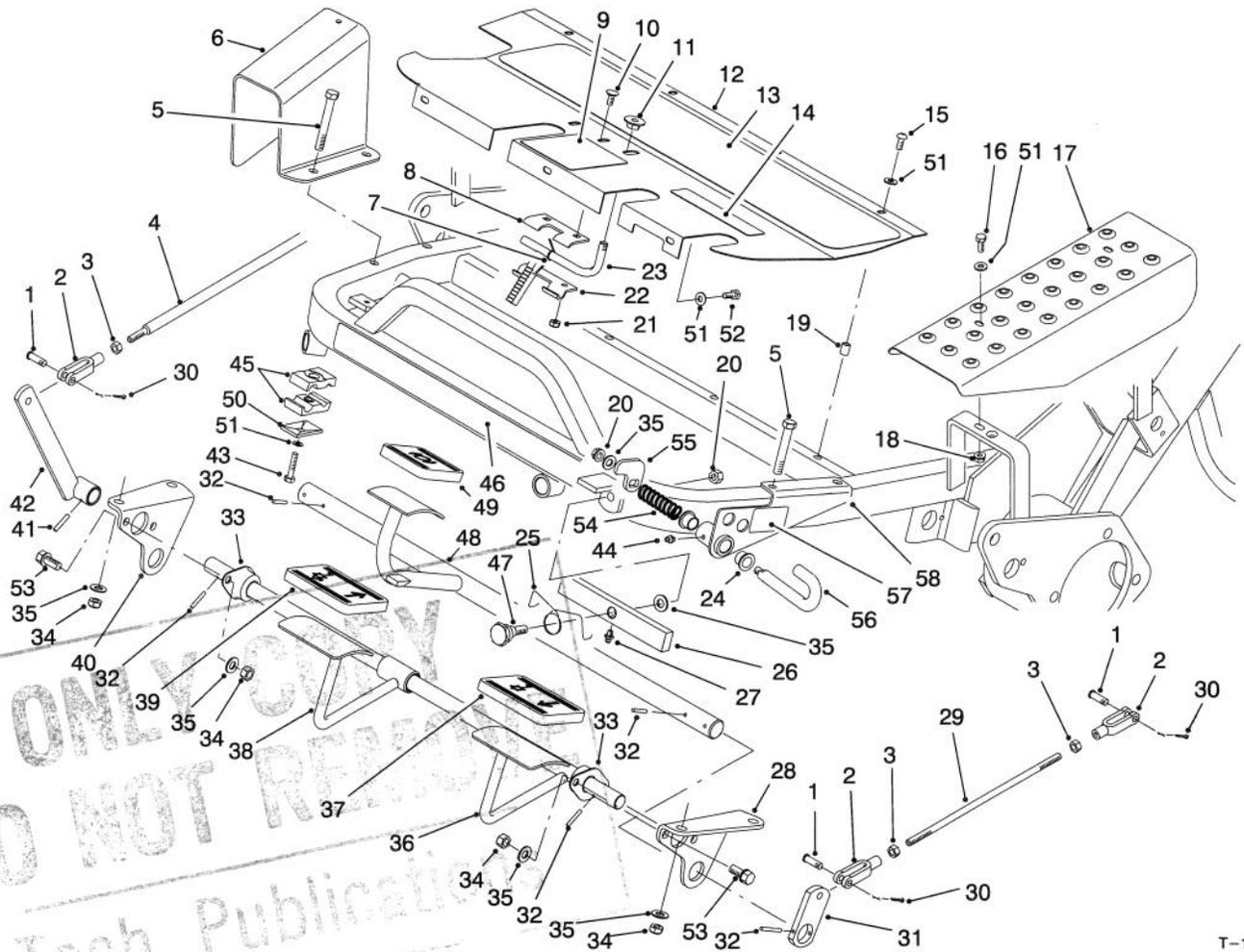




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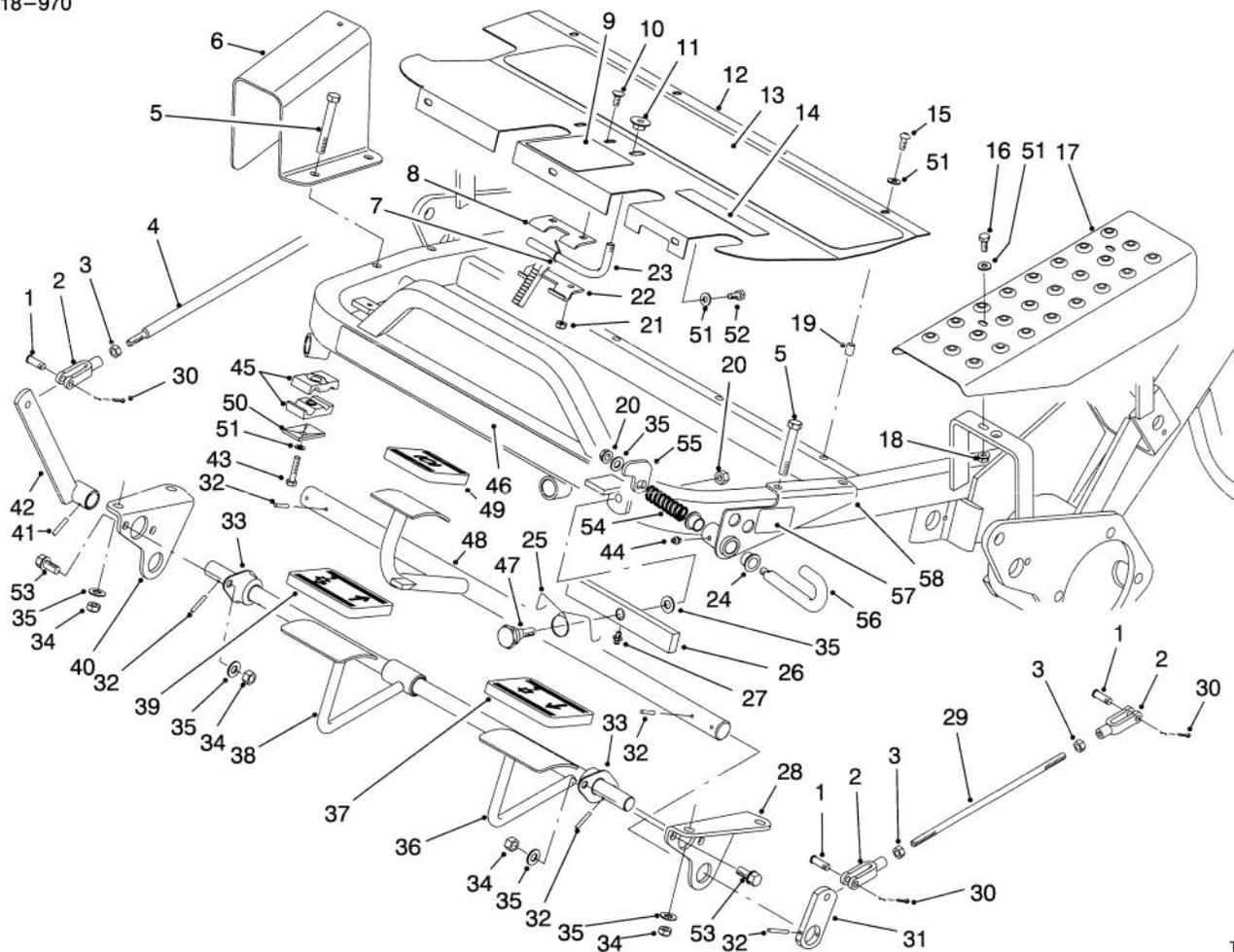
**PARTS  
CATALOG**
**GREENSMASTER® 3100  
TRACTION UNIT**


T-1285B

**CONTROL PEDAL ASSEMBLY**

Ref. No.	Part No.	Description	No. Used
1	283-61	Pin - Clevis	5
2	282-2	Clevis - Adjusting	5
3	3220-2	Nut - Jam	5
4	49-5430	Rod - Control	1
5	323-13	Screw - Cap Hex. Hd.	4
6	49-6110	Guard - Transfer Rod	1
7	10-8140	Spring - Torsion	1
8	95-1628	Hinge - Upper	1
9	93-8062	Decal - Parking Brake	1
9	83-2480	Decal - Parking Brake (Japanese)	1
10	3229-22	Bolt - Carriage	2
11	32141-111	Nut Flange Lock	1
12	83-0640	Plate - Footrest	1
13	49-6120	Pad - Footrest	1
14	93-8075	Decal - Mow/Lift	1
14	83-2530	Decal - Mow/Lift (Japanese)	1

Ref. No.	Part No.	Description	No. Used
15	3274-31	Screw - Hex. Socket Hd.	4
16	321-4	Screw - Hex. Flange Hd.	2
17	83-0200	Cover - L.H.	1
18	32128-33	Nut - Flange Lock	2
19	32148-6	Insert - Threaded	8
20	3296-39	Nut - Lock	2
21	3296-16	Nut - Lock	2
22	95-1629	Hinge - Lower	1
23	10-7850	Latch - Parking Brake	1
24	3-1506	Bushing	2
25	83-0080	Spring - Torsion	1
26	83-0060	Lift - Pivot	1
27	302-5	Fitting - Grease	1
28	88-9640	Lift Pivot Bracket L.H.	1
29	27-2270	Rod - Brake Adjusting	2
30	3272-6	Pin - Cotter	5
31	10-8100	Strap - Brake Shaft	2



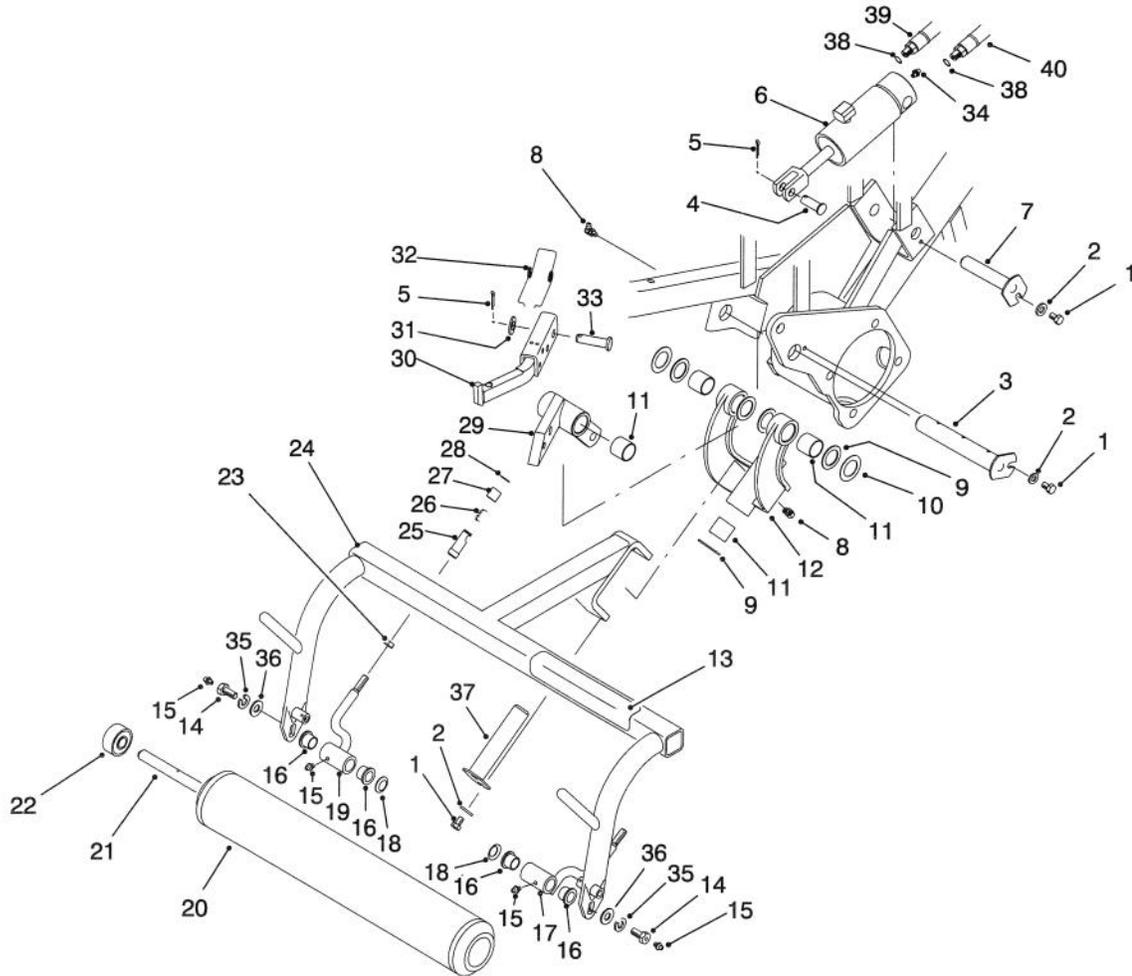
T-1285B

## CONTROL PEDAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	32121-35	Pin - Roll	8
33	27-2320	Bearing - Flange	2
34	3296-59	Nut - Lock	8
35	3256-38	Washer - Flat	6
36	88-9660	Shaft - Cutting Control	1
37	93-7631	Pad - Lift	1
38	83-0140	Pedal - Mow	1
39	93-7630	Pad - Mow	1
40	88-9630	Lift Pivot Bracket R.H.	1
41	32121-6	Pin - Roll	1
42	49-6200	Lever - Cutting Control	1
43	321-11	Screw - Cap Hex. Hd.	1
44	302-5	Fitting - Grease	1
45	56-7970	Clamp Half - Tube	2
46	88-9620	Decal - Greensmaster 3100	1

Ref. No.	Part No.	Description	No. Used
47	83-2590	Bolt - Eccentric	1
48	83-0160	Shaft - Brake	1
49	93-7629	Pad - Brake	1
50	69-9760	Plate - Cover	1
51	3256-1	Washer - Flat	9
52	321-3	Screw - Cap Hex. Hd.	3
53	3234-1	Screw - Cap Hex. Hd.	4
54	76-0410	Spring	1
55	93-9904	Arm - Lock Out, Mow	1
56	93-9903	Pin - Lock Out, Mow	1
57	93-9898	Decal - Lock	1
58	93-9901	Bracket - Lock Out, Mow	1
*	37-8130	Basket - Grass	3
*	65-8320	Bar - Gauge	1

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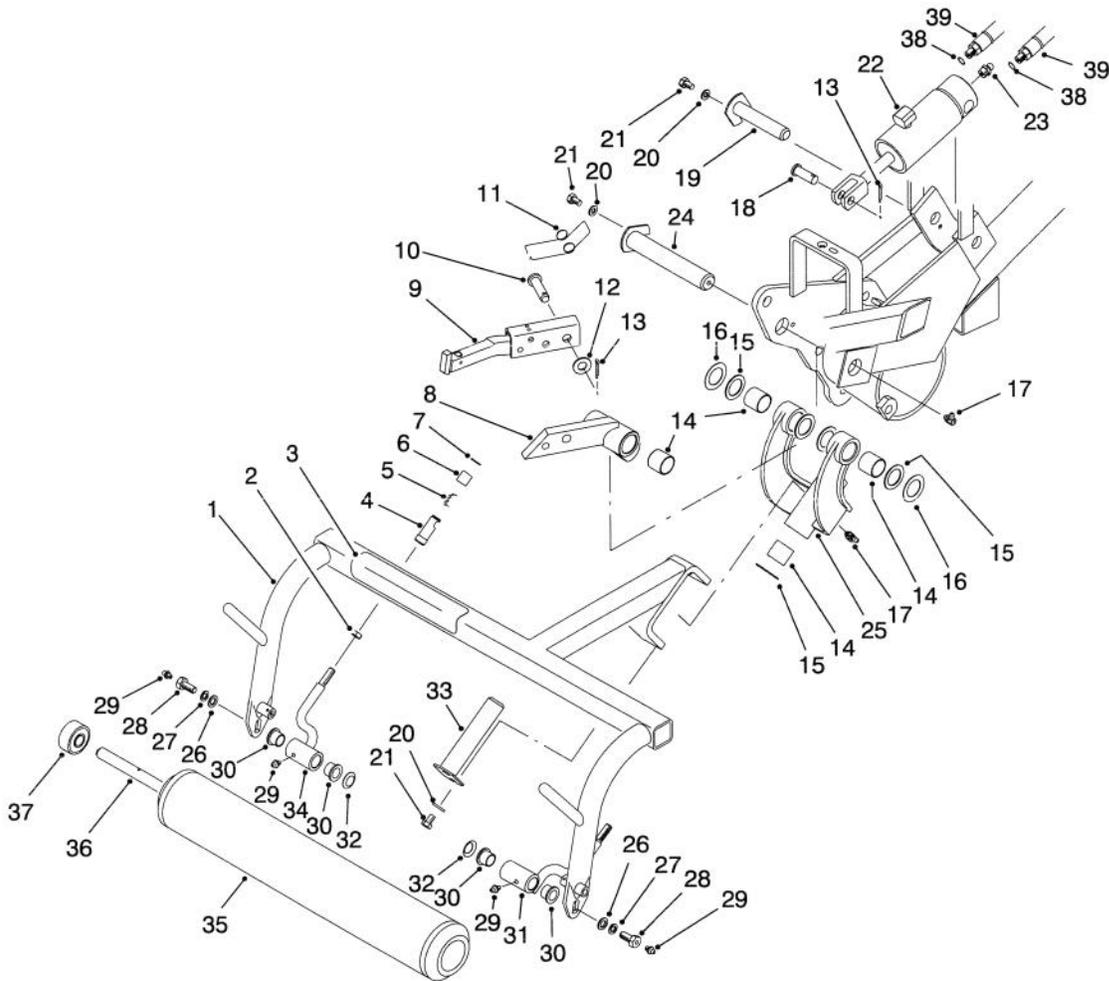


T-1283

### PULL FRAME ASSEMBLY L.H.

Ref. No.	Part No.	Description	No. Used
1	322-1	Screw - Cap Hex. Hd.	3
2	3256-23	Washer - Flat	3
3	10-6110	Pin - Hinge	1
4	283-8	Pin - Clevis	1
5	3272-11	Pin - Cotter	2
6	83-2580	Cylinder - Lift	1
7	10-6060	Pin - Lift Cylinder	1
8	302-60	Fitting - Grease 90°	2
9	10-8110	Washer - Thrust	6
10	5-1226	Washer - Shim	2
11	3-0348	Bushing - Sleeve	6
12	10-7820	Pivot Hinge Assembly (Incl. Ref. #11)	1
13	93-8064	Decal - Danger	1
13	84-6560	Decal - Danger (Japanese)	1
14	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #15)	2
15	302-5	Fitting - Grease Straight	4
16	3-1506	Bushing - Flange	4
17	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #16)	1
18	3290-317	Washer - Wave	2
19	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #16)	1
20	52-2720	Roller Assembly (Incl. Ref. #22)	1

Ref. No.	Part No.	Description	No. Used
21	21-8470	Shaft - Roller	1
22	251-141	Bearing - Ball	2
23	3220-3	Nut - Jam	2
24	92-9176	Frame - Pull L.H.	1
25	94-2959	Ball Joint Receiver Assy. (Incl. Ref. #26-28)	2
26		Spring - Compression	2
27		Sleeve	2
28		Ring - Retaining	2
29	62-2460	Lift Arm Assembly L.H. (Incl. Ref. #11)	1
30	94-5586	Bar - Lift L.H.	1
31	3256-26	Washer - Flat	1
32	57-7650	Spring - Torsion	1
33	63-8750	Pin - Pivot	1
34	302-2	Fitting - Grease Straight	1
35	3253-21	Washer - Lock	2
36	3256-24	Washer - Flat	2
37	10-6090	Pin - Pivot	1
38	237-78	Seal - O-Ring	2
39	63-3850	Hose - Hydraulic (Incl. Ref. #38)	1
40	83-1690	Hose - Hydraulic (Incl. Ref. #38)	1

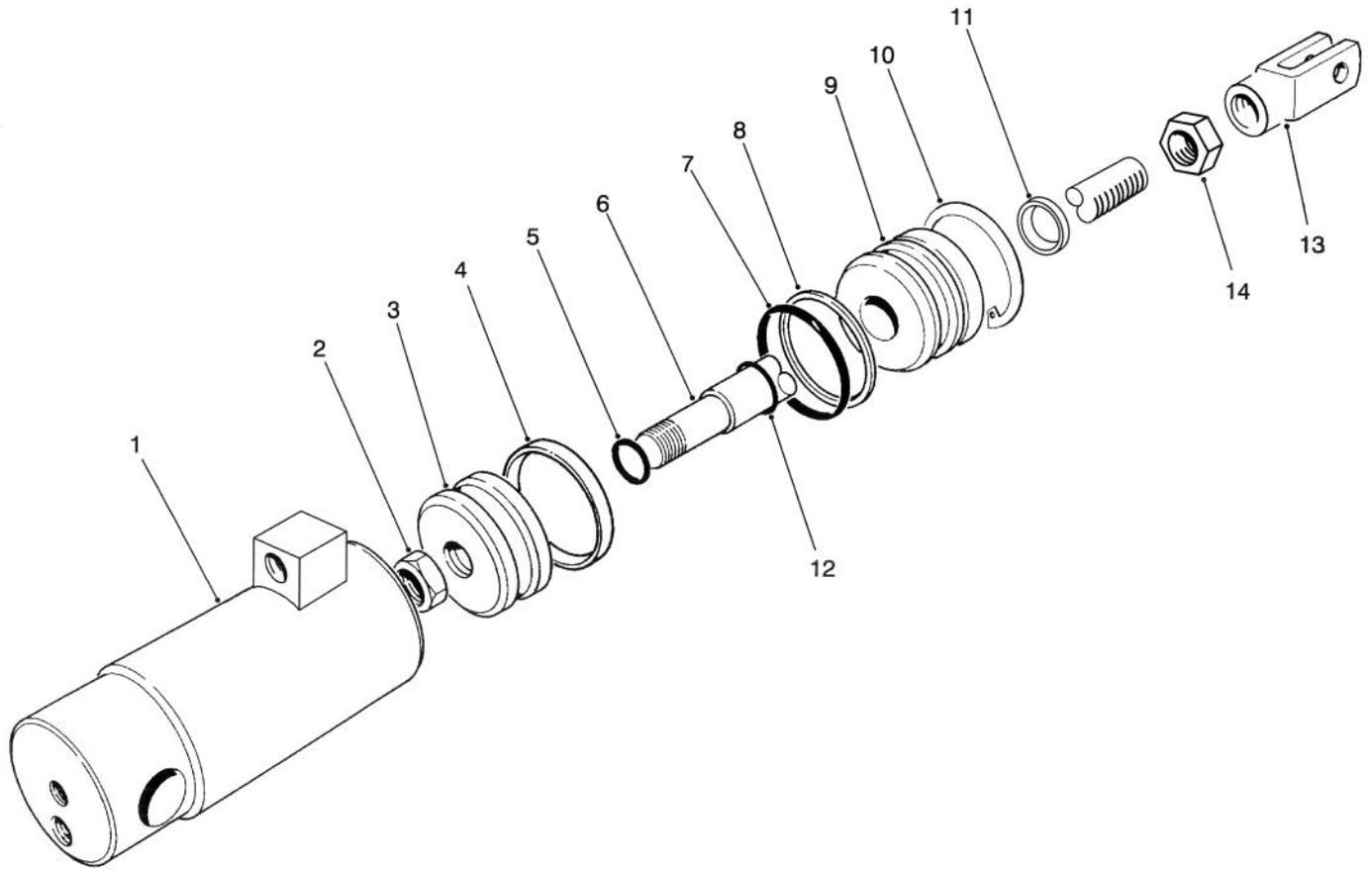


T-1284

### PULL FRAME ASSEMBLY R.H.

Ref. No.	Part No.	Description	No. Used
1	92-9177	Frame - Pull R.H.	1
2	3220-3	Nut - Jam	2
3	93-8064	Decal - Danger	1
3	84-6560	Decal - Danger (Japanese)	1
4	94-2959	Ball Joint Receiver Assy. (Incl. Ref. #5-7)	2
5		Spring - Compression	2
6		Sleeve	2
7		Ring - Retaining	2
8	62-2440	Lift Arm Assembly (Incl. Ref. #14)	1
9	94-5588	Bar - Lift, R.H.	1
10	63-8750	Pin - Pivot	1
11	57-7650	Spring - Torsion	1
12	3256-26	Washer - Flat	1
13	3272-11	Pin - Cotter	2
14	3-0348	Bushing - Sleeve	6
15	10-8110	Washer - Thrust	6
16	5-1226	Washer - Shim	2
17	302-60	Fitting - Grease 90°	2
18	283-8	Pin - Clevis	1
19	10-6060	Pin - Pivot	1
20	3256-23	Washer - Flat	3
21	322-1	Screw - Cap Hex. Hd.	3

Ref. No.	Part No.	Description	No. Used
22	83-2580	Hydraulic Cylinder Assy.	1
23	302-2	Fitting - Grease	1
24	10-6110	Pin - Pivot	1
25	10-7820	Pivot Hinge Assembly (Incl. Ref. #14)	1
26	3256-24	Washer - Flat	2
27	3253-21	Washer - Lock	2
28	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #29)	2
29	302-5	Fitting - Grease	4
30	3-1506	Bushing - Flange	4
31	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #30)	1
32	3290-317	Washer - Wave	2
33	10-6090	Pin - Pivot	1
34	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #30)	1
35	52-2720	Roller Assembly (Incl. Ref. #37)	1
36	21-8470	Shaft - Roller	1
37	251-141	Bearing - Ball	2
38	237-78	Seal - O-Ring	2
39	92-9767	Hose - Hydraulic (Incl. Ref. #38)	2



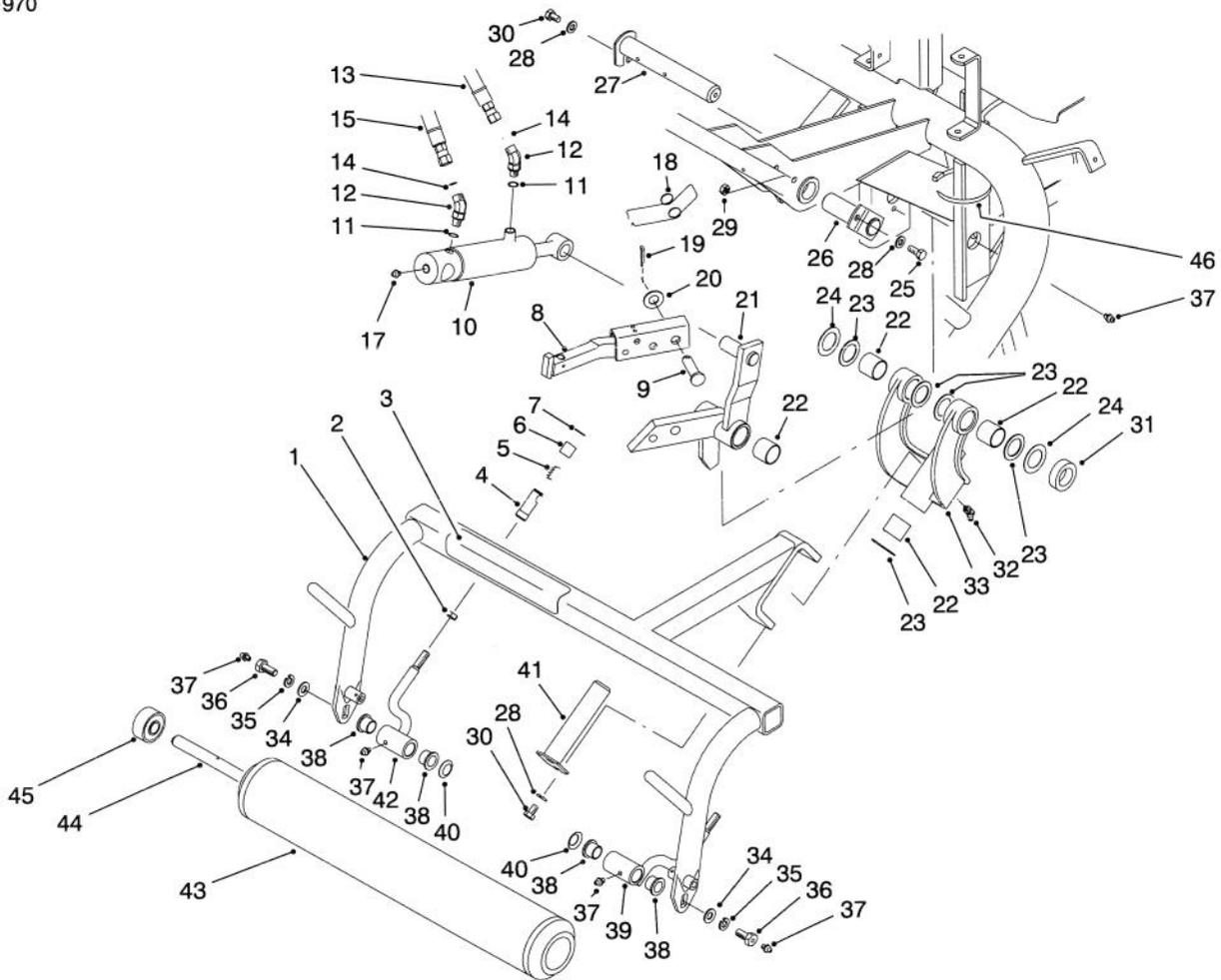
T-1246

## HYDRAULIC CYLINDER ASSEMBLY NO. 83-2580

Ref. No.	Part No.	Description	No. Used
1		Barrel	1
2	32152-10	Nut - Lock	1
3	52-1990	Piston	1
4		Uniring	1
5		Seal - O-Ring	1
6	76-1860	Shaft	1
7		Seal - O-Ring	1
8		Washer - Back-Up	1
9	65-4860	Head	1

Ref. No.	Part No.	Description	No. Used
10	32120-8	Ring - Retaining	1
11		Seal - Dust	1
12		Seal - PDF	1
13	76-1850	Clevis	1
14	3220-6	Nut - Jam	1
*	86-5390	Seal Kit (Incl. Ref. #4, 5, 7, 8, 11 & 12)	1

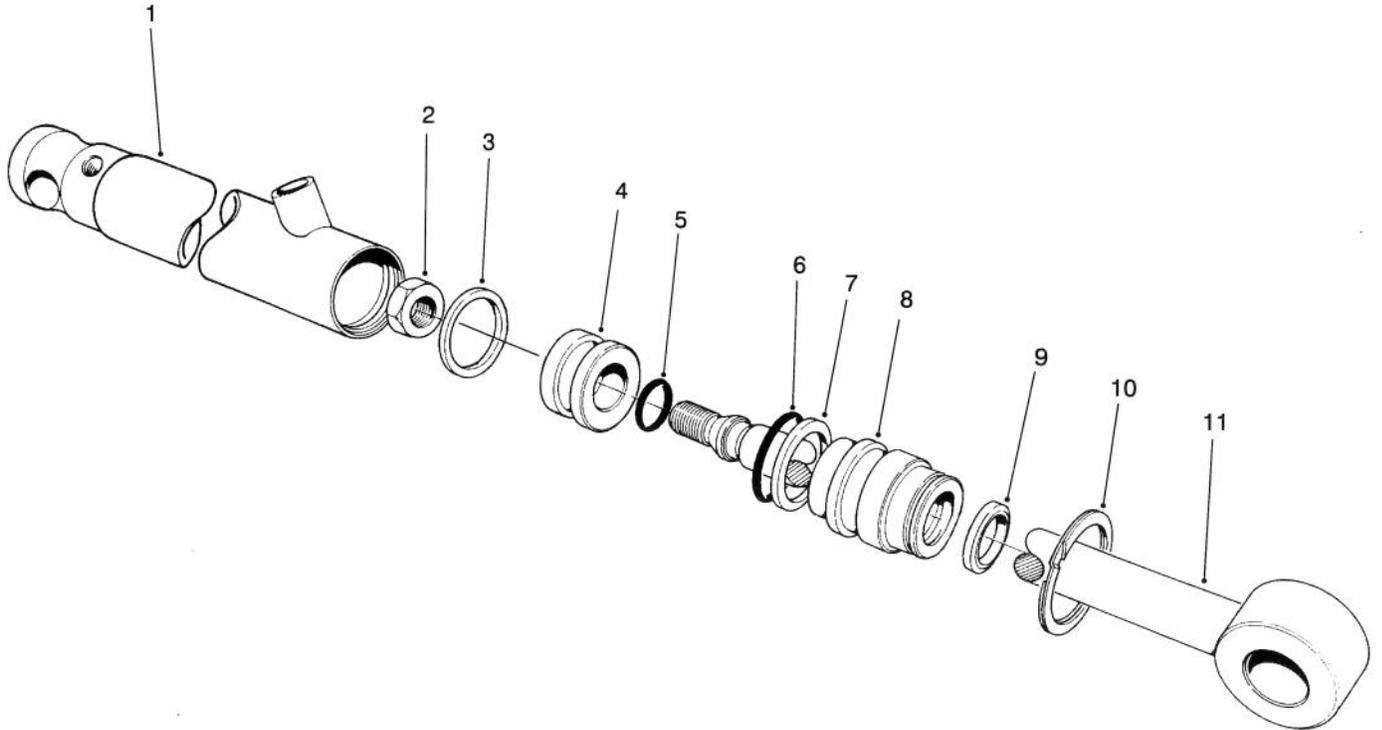
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T-1286

## PULL FRAME ASSEMBLY REAR

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	86-9820	Frame - Pull Rear	1	25	322-3	Screw - Cap Hex. Hd.	1
2	3220-3	Nut - Jam	2	26	68-5560	Pin - Cylinder Pivot	1
3	93-8064	Decal - Danger	1	27	27-2550	Pin - Pivot	1
3	84-6560	Decal - Danger (Japanese)	1	28	3256-23	Washer - Flat	3
4	94-2959	Ball Joint Receiver Assy. (Incl. Ref. 5-7)	2	29	3296-29	Nut - Lock	1
5		Spring - Compression	2	30	322-1	Screw - Cap Hex. Hd.	2
6		Sleeve	2	31	93-2384	Spacer - Carrier	1
7		Ring - Retaining	2	32	302-60	Fitting - Grease 90°	1
8	62-2420	Bar - Lift	1	33	10-7820	Pivot Hinge Assembly (Incl. Ref. #22)	1
9	63-8750	Pin - Pivot	1	34	3256-24	Washer - Flat	2
10	83-7230	Hydraulic Cylinder Assembly	1	35	3253-21	Washer - Lock	2
11	237-35	Seal - O-Ring	2	36	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #37)	2
12	340-103	Fitting - Hydraulic 45° (Incl. Ref. #11 & 14)	2	37	302-5	Fitting - Grease Straight	5
13	83-1680	Hose - Hydraulic	1	38	3-1506	Bushing - Flange	4
14	237-78	Seal - O-Ring	2	39	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #38)	1
15	88-9700	Hose - Hydraulic	1	40	3290-317	Washer - Wave	2
17	302-2	Fitting - Grease	1	41	10-6090	Pin - Pivot	1
18	57-7650	Spring - Torsion	1	42	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #38)	1
19	3272-11	Pin - Cotter	1	43	52-2720	Roller Assembly (Incl. Ref. #45)	1
20	3256-26	Washer - Flat	1	44	21-8470	Shaft - Roller	1
21	68-5380	Lift Arm Assembly (Incl. Ref. #22)	1	45	251-141	Bearing - Ball	2
22	3-0348	Bushing - Sleeve	6	46	3290-379	Tie - Cable	1
23	10-8110	Washer - Thrust	6				
24	5-1226	Washer - Shim	2				



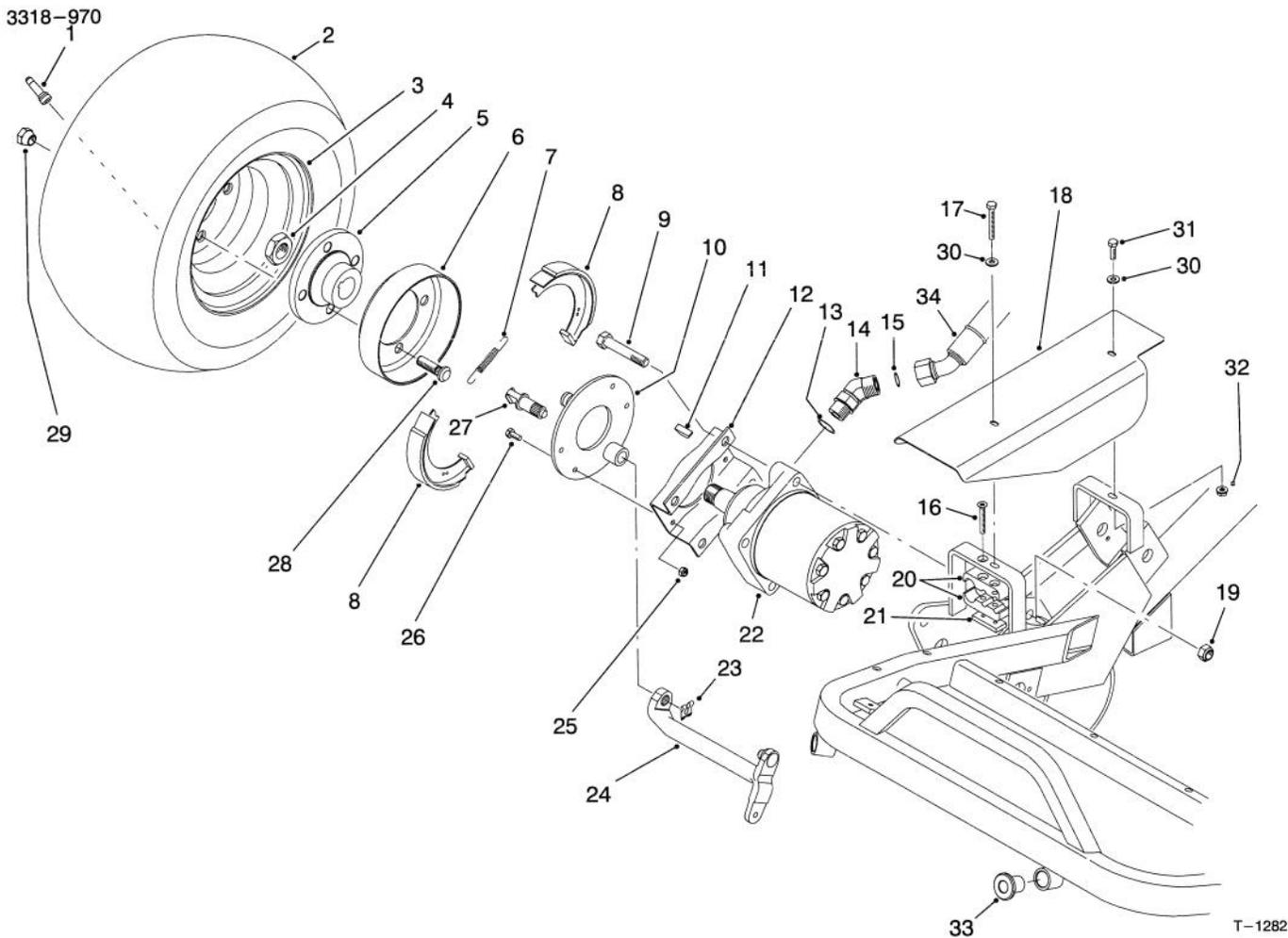
T-0640

## HYDRAULIC CYLINDER NO. 83-7230

Ref. No.	Part No.	Description	No. Used
1	70-8130	Barrel	1
2	32152-10	Nut - Hex.	1
3		Uniring	1
4	70-2780	Piston	1
5		Seal - O-Ring	1
6		Seal - O-Ring	1
7		Washer - Back-Up	1

Ref. No.	Part No.	Description	No. Used
8	70-2770	Head	1
9		Seal - Dust	1
10	43-5220	Ring - Retaining	1
11	43-5230	Shaft & Clevis	1
*	86-5360	Repair Kit (Incl. Ref. #3, 5-7 & 9)	1

\*Not Illustrated



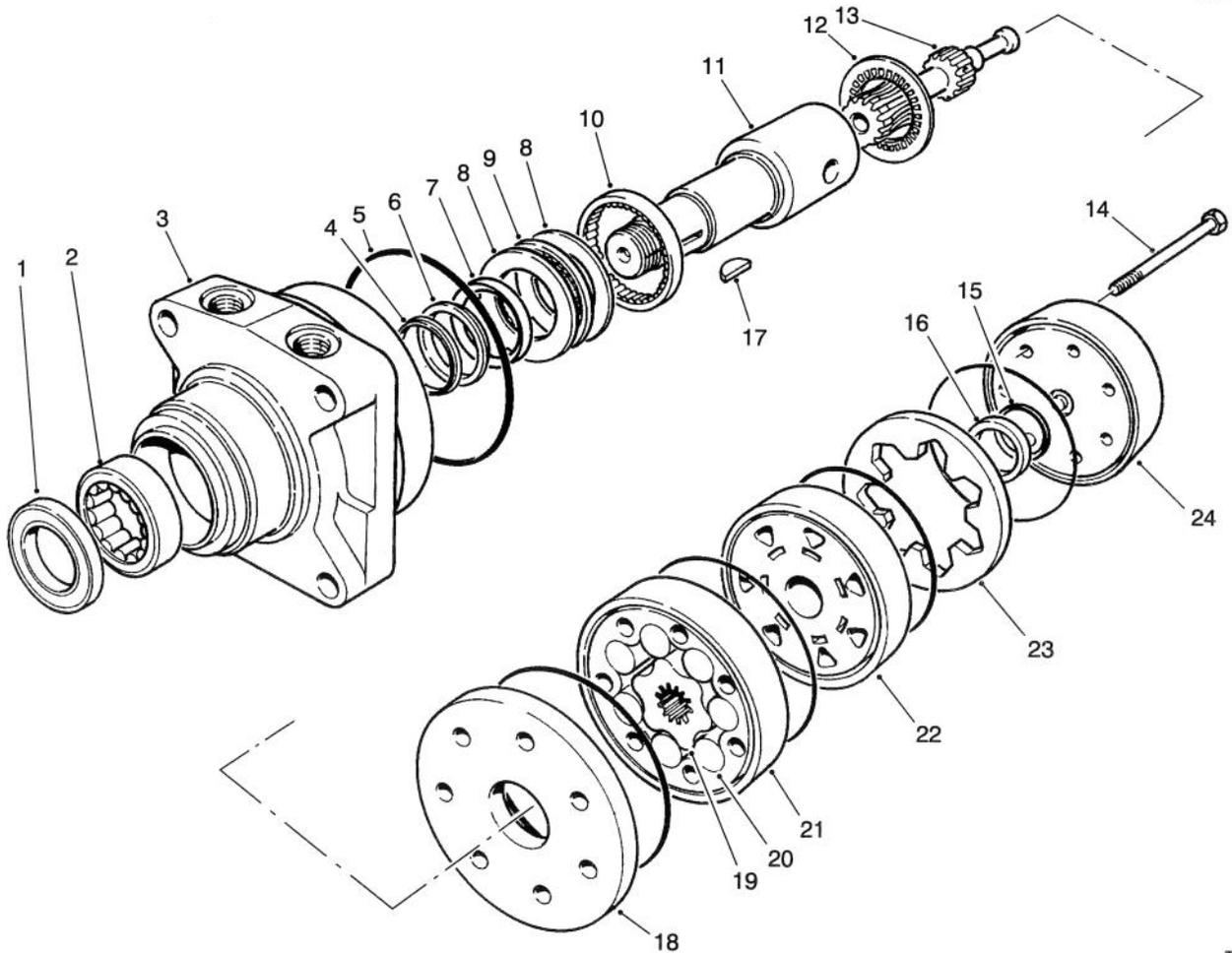
T-1282

## FRONT WHEEL & BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	232-24	Stem - Valve	2
2	28-3680	Tire	2
3	217-60	Rim	2
4	26-3790	Nut - Lock	2
5	10-6870	Hub - Wheel	2
6	10-6850	Drum - Brake	2
7	70-9880	Spring - Return	4
8	70-9840	Shoe - Brake	4
9	325-11	Screw - Cap Hex. Hd.	8
10	70-9870	Plate - Backing	2
11	3257-42	Key - Woodruff	2
12	84-2000	Bracket - Brake	2
13	237-80	Seal - O-Ring	4
14	340-14	Fitting - Hydraulic 45° (Incl. Ref. #13 & 15)	4
15	237-65	Seal - O-Ring	4
16	32108-100	Screw - Flat Hd.	1
17	321-11	Screw - Hex. Washer Hd.	1
18	83-0190	Cover - R.H.	1
19	3296-23	Nut - Lock	8
20	57-6140	Clamp Half - Tube	2

Ref. No.	Part No.	Description	No. Used
21	83-1220	Plate - Clamp	1
22	92-9199	Motor - Hydraulic	2
23	70-9850	Clip - Retaining	2
24	93-2096	Arm - Brake	2
25	3296-42	Nut - Lock	8
26	321-5	Screw - Cap Hex. Hd.	8
27	70-9860	Cam - Brake	2
28	85-6540	Stud - Drive	8
29	242-50	Nut - Lug	8
30	3256-22	Washer - Flat	2
31	321-4	Screw - Cap Hex. Hd.	1
32	32128-33	Nut - Lock	1
33	83-1700	Bushing - Flange	2
34	83-2450	Hose - Hydraulic (Top)	1
*	83-2460	Hose - Hydraulic (Bottom)	1
*	10-6821	Brake Drum Assembly (Incl. Ref. #5, 6 & 28)	2
*	71-1500	Brake Assembly (Incl. Ref. #7, 8, 10, 23 & 27)	2

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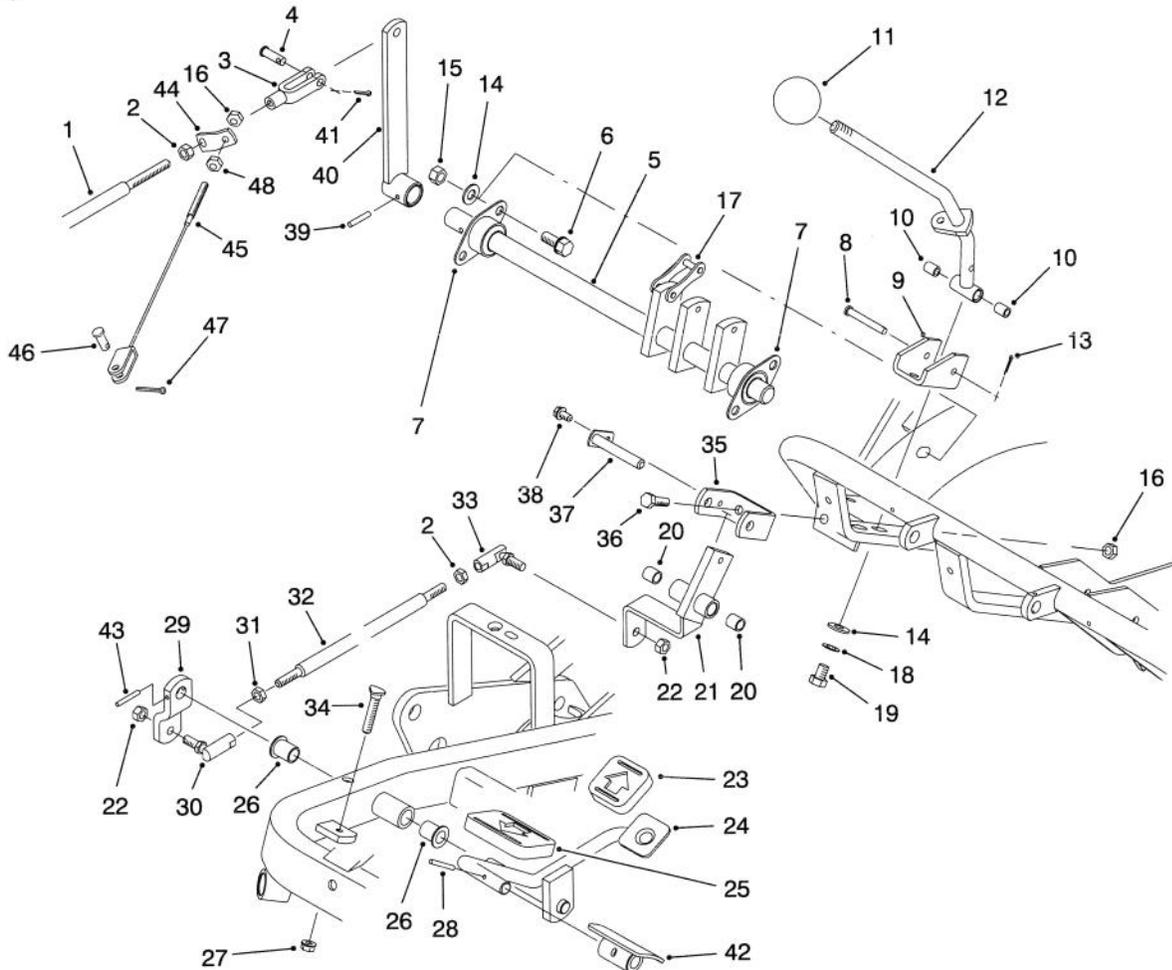
T-0983

## HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 92-9199

Ref. No.	Part No.	Description	No. Used
1		Seal - Dirt & Water	1
2		Bearing	1
3		Housing	1
4		Washer - Back-Up	1
5		Ring - Seal	5
6		Washer - Back-Up	1
7		Seal - Inner	1
8		Washer - Thrust	2
9		Bearing - Thrust	1
10		Bearing	1
11	76-0860	Shaft - Coupling	1
12	76-0850	Bearing - Thrust	1
13	92-9761	Link - Drive	7
14	92-9762	Screw - Cap Hex. Hd.	1
15		Seal - Commutator	1
16		Commutator	1

Ref. No.	Part No.	Description	No. Used
17	3257-42	Key - Woodruff	1
18	76-0870	Plate - Wear	1
19		Rotor	1
20		Vane	7
21		Stator	1
22	76-0840	Manifold	1
23		Ring - Commutator	1
24	76-0940	End Cover Assembly	1
*	92-9763	Rotor Set (Incl. Ref. #19-21)	1
*	76-0880	Commutator Assembly (Incl. Ref. #15, 16 & 23)	1
*	76-0800	Seal Kit (Incl. Ref. #1, 4-7 & 15)	1
*	76-0810	Housing Assembly (Incl. Ref. #2, 3 & 8-10)	1

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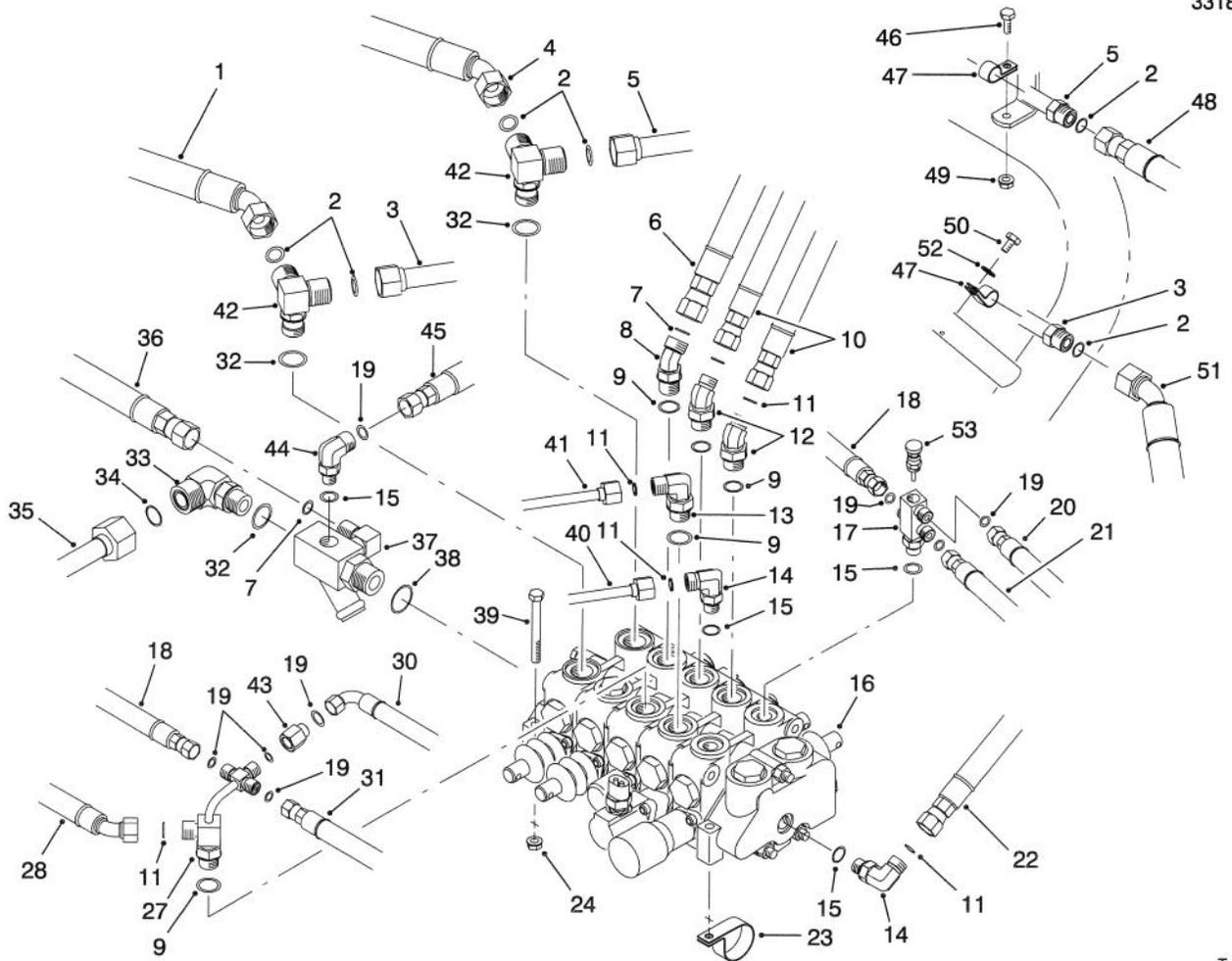


T-1287

## TRACTION CONTROLS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	49-5430	Rod - Control	1
2	3220-2	Nut - Jam	2
3	282-2	Clevis - Rod	1
4	283-61	Pin - Clevis	1
5	44-0870	Shaft - Cam	1
6	3234-1	Screw - Hex. Flange Hd.	4
7	27-2320	Bearing - Flange	2
8	283-57	Pin - Clevis	1
9	49-6220	Bracket - Control Arm	1
10	256-251	Bushing - Sleeve	2
11	233-48	Knob	1
12	93-9934	Traction Handle Assembly (Incl. Ref. #10)	1
13	3272-4	Pin - Cotter	1
14	3256-24	Washer - Flat	6
15	3296-59	Nut - Lock	4
16	3296-29	Nut - Lock	3
17	57-6220	Link	5
18	3254-6	Washer - I.T.L.W.	2
19	3211-2	Screw - Cap Hex. Hd.	2
20	256-2	Bushing - Sleeve	2
21	49-6260	Assy. - Pivot, Traction (Incl. Ref. #20)	1
22	3296-4	Nut - Lock	2
23	74-9110	Pad - Reverse Pedal	1

Ref. No.	Part No.	Description	No. Used
24	83-0540	Pedal - Traction	1
25	74-9100	Pad - Forward Pedal	1
26	256-155	Bushing - Flange	2
27	32128-20	Nut - Flange Lock	1
28	32121-45	Pin - Roll	1
29	83-0630	Arm - Traction Pivot	1
30	2411-42	Joint - Ball L.H. Thread	1
31	3220-20	Nut - Jam L.H. Thread	1
32	83-0580	Rod - Traction Control	1
33	2411-43	Joint - Ball R.H. Thread	1
34	17-9420	Screw - Traction Stop	1
35	49-6250	Bracket - Traction Pivot	1
36	322-5	Screw - Cap Hex. Hd.	2
37	49-6290	Shaft - Traction Pivot	1
38	12-3270	Screw - Hex. Washer Hd.	1
39	32121-6	Pin - Roll	1
40	47-5320	Lever - Control	1
41	3272-6	Pin - Cotter	1
42	49-6440	Pedal - Forward	1
43	32121-51	Pin - Roll	1
44	93-9936	Bracket - Cable	1
45	93-9937	Cable - Traction Return	1
46	283-62	Pin - Clevis	1
47	3272-10	Pin - Cotter	1
48	3217-6	Nut - Hex.	1

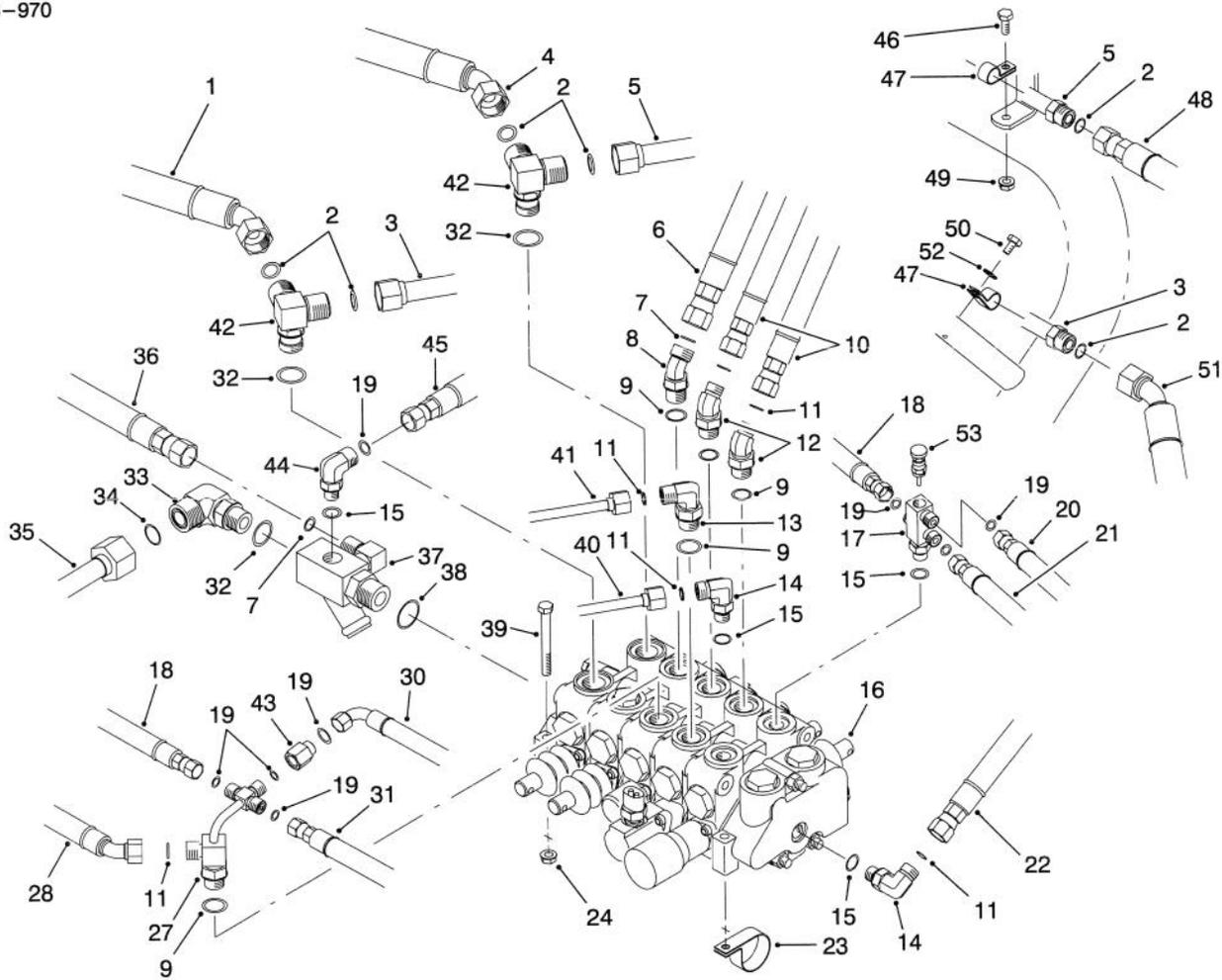


T-1294

## CONTROL VALVE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83-2450	Hose - Hydraulic	1
2	237-65	Seal - O-Ring	6
3	70-7130	Tube Assy. (Incl. Ref. #2)	1
4	83-2460	Hose - Hydraulic	1
5	83-1200	Tube Assy. (Incl. Ref. #2)	1
6	83-1180	Hose - Hydraulic	1
7	237-30	Seal - O-Ring	2
8	340-101	Fitting - Hydraulic 45° (Incl. Ref. #7 & 9)	1
9	237-79	Seal - O-Ring	4
10	83-1190	Hose - Hydraulic	2
11	237-22	Seal - O-Ring	6
12	340-138	Fitting - Hydraulic 45° (Incl. Ref. #9 & 11)	2
13	340-18	Fitting - Hydraulic 90° (Incl. Ref. #9 & 11)	1
14	340-77	Fitting - Hydraulic 90° (Incl. Ref. #11 & 15)	2
15	237-42	Seal - O-Ring	4
16	84-2203	Control Valve Assembly	1
17	93-2555	Fitting - Valve Body (Incl. Ref. #15 & 19)	1
18	92-9767	Hose - Hydraulic	2
19	237-21	Seal - O-Ring	6
20	88-9700	Hose - Hydraulic	1
21	83-1690	Hose - Hydraulic	1

Ref. No.	Part No.	Description	No. Used
22	83-1170	Hose - Hydraulic	1
23	304-61	Clamp - R	1
24	32128-20	Nut - Flange Lock	3
27	83-1670	Fitting - Special (Incl. Ref. #9, 11 & 19)	1
28	74-3830	Hose - Hydraulic	1
30	83-1680	Hose - Hydraulic	1
31	63-3850	Hose - Hydraulic	1
32	237-80	Seal - O-Ring	3
33	340-16	Fitting - Hydraulic 90° (Incl. Ref. #32 & 34)	1
34	237-58	Seal - O-Ring	1
35	63-4040	Tube - Hydraulic	1
36	63-3840	Hose - Hydraulic	1
37	68-5260	Fitting - Manifold Tee (Incl. Ref. #7 & 38)	1
38	237-81	Seal - O-Ring	1
39	322-14	Screw - Cap Hex. Hd.	3
40	63-4020	Tube - Hydraulic	1
41	63-4030	Tube - Hydraulic	1
42	63-4050	Fitting - Tee (Incl. Ref. #2 & 32)	2
43	71-0990	Orifice (Incl. Ref. #19)	1
44	340-137	Fitting - Hydraulic 45° (Incl. Ref. #15 & 19)	1
45	83-1350	Hose - Hydraulic	1

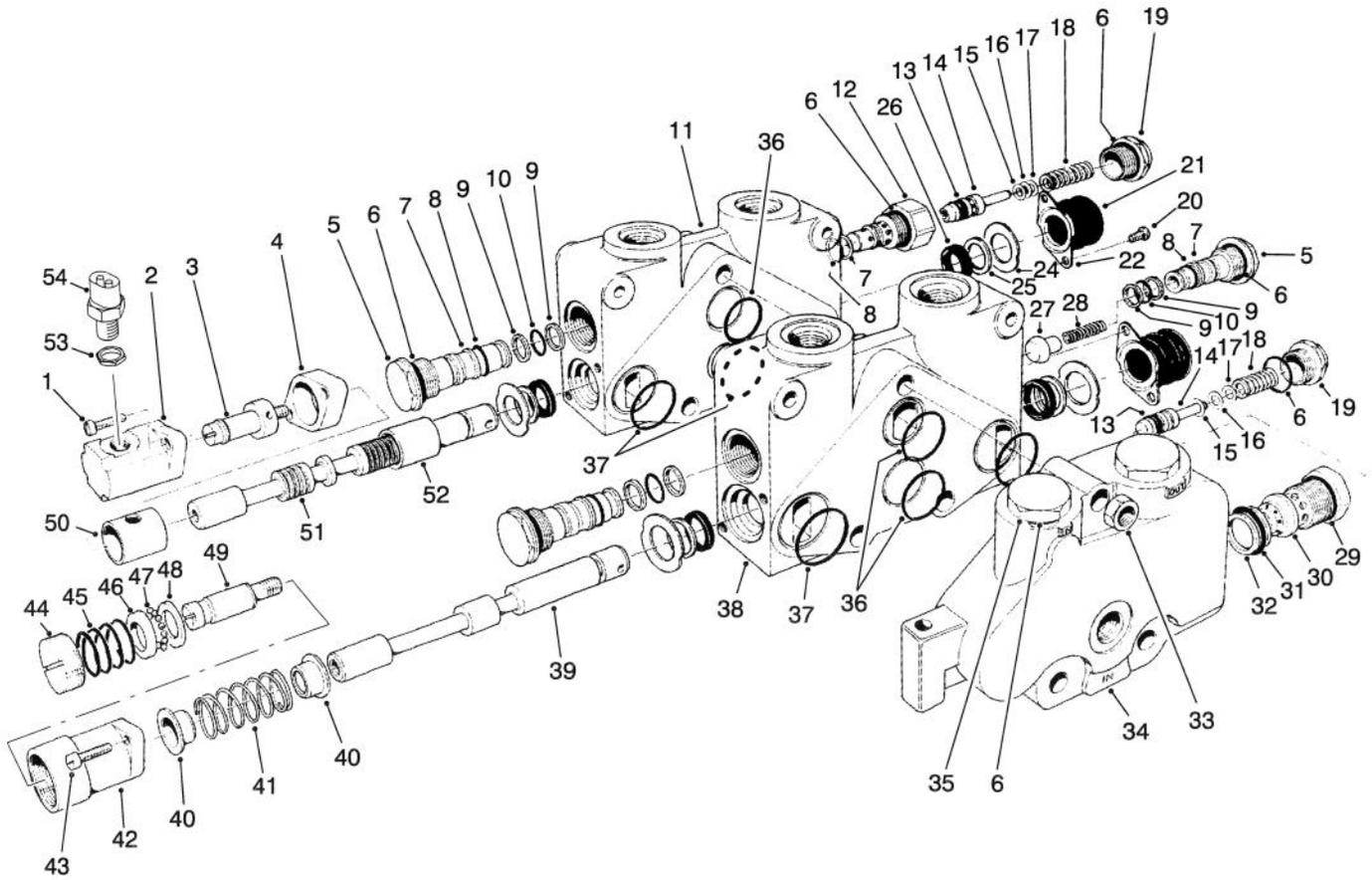


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## CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
46	3234-4	Screw - Cap Hex. Hd.	1	51	70-8610	Hose - Hydraulic	1
47	2412-41	Clamp-R	2	52	3256-22	Washer - Flat	1
48	70-7150	Hose - Hydraulic	1	53	93-2554	Valve - Needle	1
49	3296-16	Nut - Lock	1	*	93-2556	Needle Valve Assembly (Incl. Ref. #15, 17, 19 & 53)	1
50	12-3270	Screw - Thread Forming	1				

\*Not Illustrated



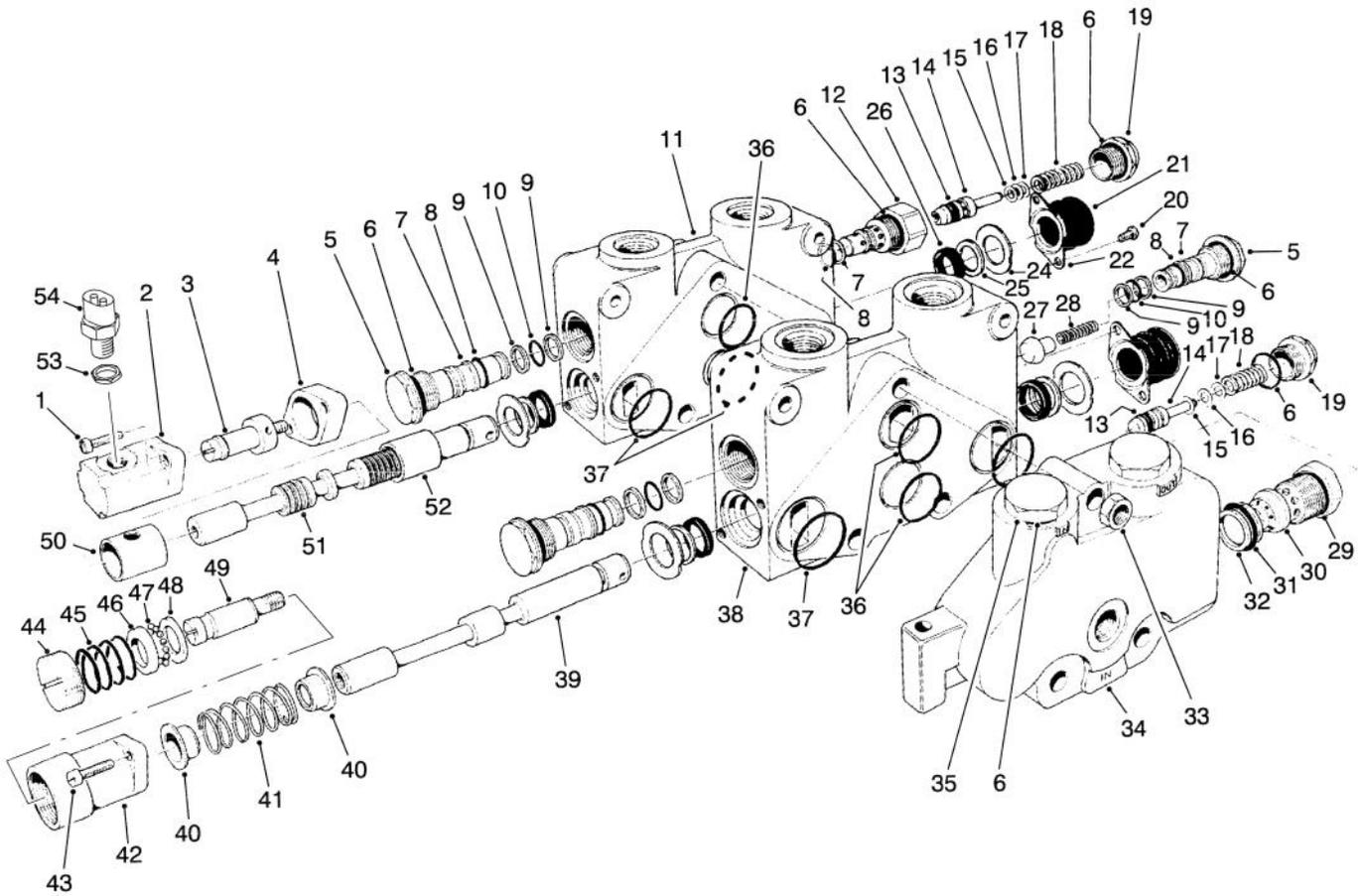
T-1318A

## CONTROL VALVE ASSY. NO. 84-2203 (Sections 1 & 2)

Ref. No.	Part No.	Description	No. Used
1	3274-70	Screw - Hex, Socket Hd.	2
2	353-727	Bonnet	1
3	353-729	Spud - Detent	1
4	353-733	Spacer - Bonnet	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3
6	237-54	O-Ring	8
7	353-306	Ring - Backup	4
8	353-305	O-Ring	4
9	353-303	Ring - Backup	6
10	353-302	O-Ring	3
11		Housing V20T	1
12	353-851	Body - Relief CP-RC Mod.	1
13	353-392	Seal - Relief Poppet PTFE	2
14	353-531	Poppet Assy. (Incl. Ref. #13)	2
15	353-328	Washer - Shim	A/R
16	353-329	Washer - Shim	A/R
17	353-330	Washer - Shim	A/R
18	353-855	Spring	2
19	353-334	Cap - Relief	2
20	3274-52	Screw - Hex, Socket Hd.	4
21	353-575	Boot - Dust Cap	2
22	93-3651	Retainer - Boot	2
24	92-2547	Plate - Seal Retainer	4

Ref. No.	Part No.	Description	No. Used
25	92-2546	Wiper - Seal	4
26	353-957	Seal - Lip	4
27	353-301	Poppet	1
28	353-304	Spring	1
29	353-331	O-Ring	1
30	353-760	Body Relief	1
31	353-758	Seal - O-Ring	1
32	353-952	Ring - Backup	1
33	3217-7	Nut - Hex	3
34	353-772	Left End Cover	1
35	353-721	Plug (Incl. Ref. #6)	2
†36		O-Ring	3
†37		O-Ring	4
†38		Housing Section #1	1
†39		Spool V20 SPL	1
40	353-417	Collar Spring	2
41	92-3058	Spring - Centering	1
42	353-780	Bonnet - R. Detent	1
43	3274-15	Screw - Fillister Hd.	2
44	353-763	Cap - Adjustment	1
45	353-579	Spring	1
46	42-2680	Race R. Detent	1
47	52-5880	Ball - Steel	12
48	354-29	Plate - Thrust	1

†Parts Available as Assemblies Listed as (\*Not Illustrated) on Following Page



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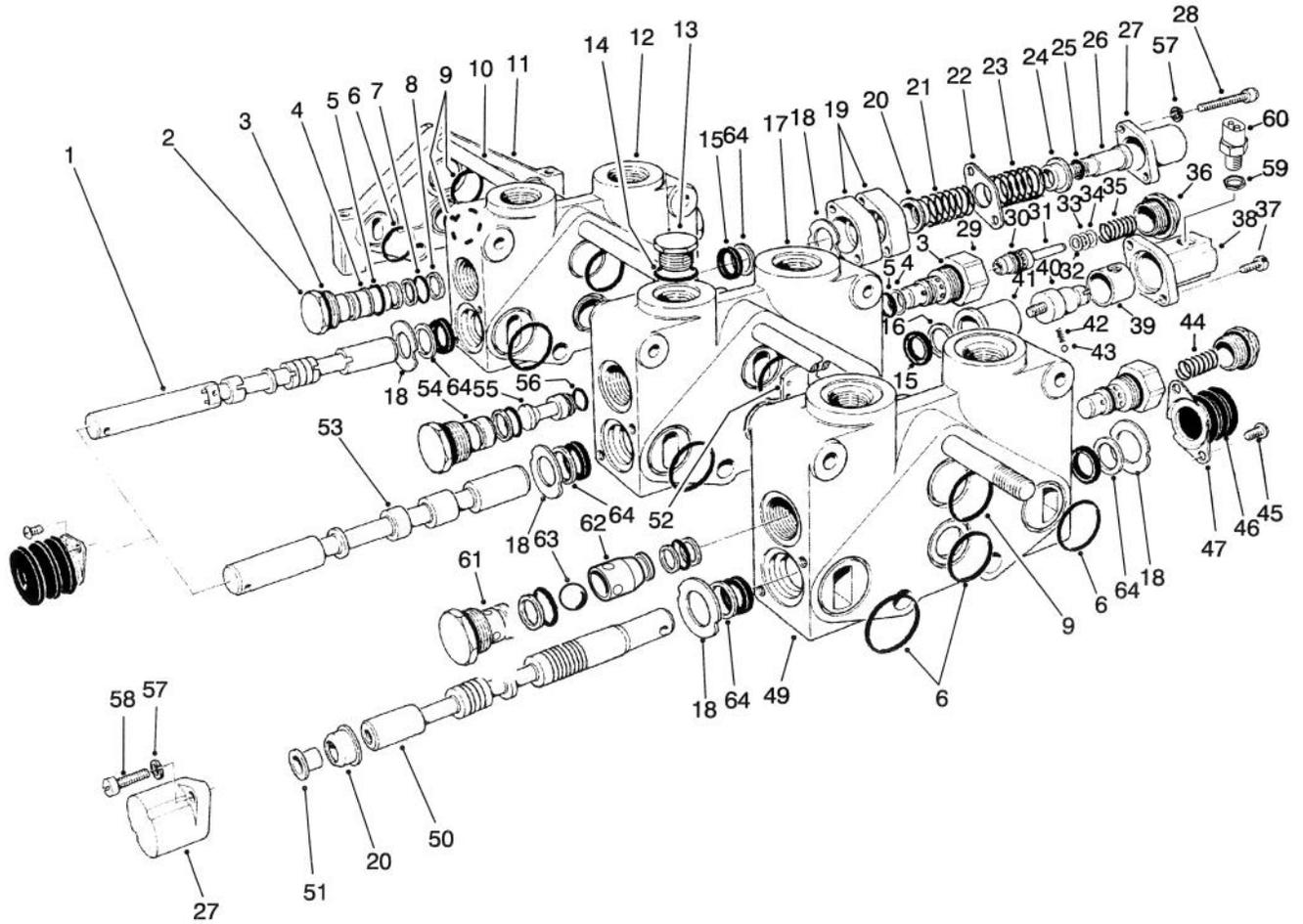
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
50	353-728	Sleeve	1
49	353-762	Spud - Detent Out	1
†51		Spool V20 3 Way F.F.	1
52	353-732	Sleeve - Detent	1
53	38-0410	Nut - Hex.	1
54	83-1890	Switch - Ball	1
*	353-766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13-19 & 29-32)	1
*	353-768	Section #1 Complete	1
*	353-837	Section #2 Complete	1
*	353-780	Positioner - R. Detent (Out) (Incl. Ref. #40-49)	1

Ref. No.	Part No.	Description	No. Used
*	353-839	Positioner - DI (SPL) Assy. (Incl. Ref. #1-4 & 50)	1
*	353-642	Relief - RC Mod. (Incl. Ref. #6-8 & 12-19)	2
*	93-3652	Boot - Spool Assembly (Incl. Ref. #20-22)	2
*	353-835	Seals - Section Set (Incl. Ref. #36 & 37)	1
*	92-2548	Seals - Spool (Single End Set) (Incl. Ref. #24-26)	1
*	92-2545	Seals - Spool (Entire Valve Set)	1

\*Not Illustrated

†Parts Available as Assemblies Listed as (\*Not Illustrated) on This Page



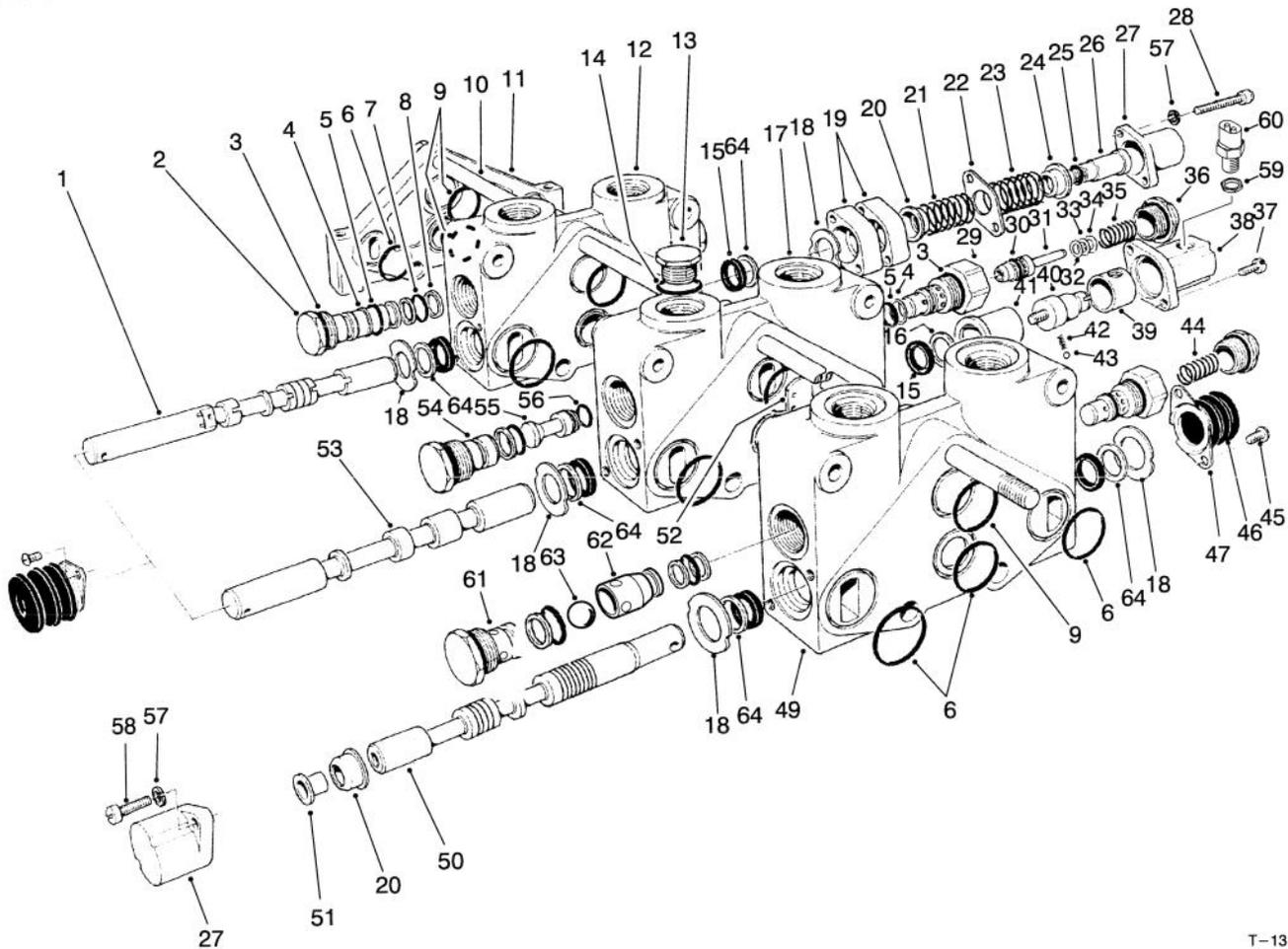
T-1319A

## CONTROL VALVE ASSY. NO. 84-2203 (Sections 3 Thru 5)

Ref. No.	Part No.	Description	No. Used
1	94-5434	Spool #5	1
2	353-481	Plug - Load Check (Incl. Ref. #3-5 & 7-8)	3
3	237-54	O-Ring	6
4	353-306	Ring - Backup	5
5	353-305	O-Ring	5
†6		O-Ring	11
7	353-302	O-Ring	3
8	353-303	Ring - Backup	6
†9		O-Ring	5
10	353-853	Bolt - Hex Hd.	3
11	353-668	Plate - Cap, Cover RH	1
12		Housing V20 #5	1
13	353-550	Plug Assembly (Incl. Ref. #14)	1
14	353-848	O-Ring	1
15	353-957	Seal - Lip	6
16	353-958	Ring - Backup	1
†17		Housing V20 #4	1
18	92-2547	Plate - Seal Retainer	5
19	353-733	Spacer - Bonnet	2
20	353-417	Collar Spring	2
21	353-831	Spring	1
22	353-529	Plate Seal	1
23	92-3148	Spring	1

Ref. No.	Part No.	Description	No. Used
24	353-808	Collar - Spring	1
25	353-830	O-Ring	1
26	94-4248	Collar Spool	1
27	354-26	Bonnet	2
28	354-28	Screw - Hex, Socket Hd.	2
29	353-851	Body - Relief CP-RC Mod.	2
30	353-392	Seal - Relief Poppet PTFE	2
31	353-531	Poppet Assembly (Incl. Ref. #30)	2
32	353-328	Washer - Shim	A/R
33	353-329	Washer - Shim	A/R
34	353-330	Washer - Shim	A/R
35	353-398	Spring	1
36	353-334	Cap - Relief	2
37	52-5900	Screw - Fillister Hd.	4
38	353-847	Bonnet (SPL)	1
39	353-849	Sleeve	1
40	353-846	Spud - DI (SPL)	1
41	353-845	Sleeve - Detent	1
42	353-730	Spring	1
43	353-731	Ball	1
44	353-855	Spring	1
45	3274-52	Screw - Hex. Socket Hd.	6
46	353-575	Boot - Dust Cap	3
47	93-3651	Retainer - Boot	3

†Parts Available as Assemblies Listed as (\*Not Illustrated) on Following Page



T-1319A

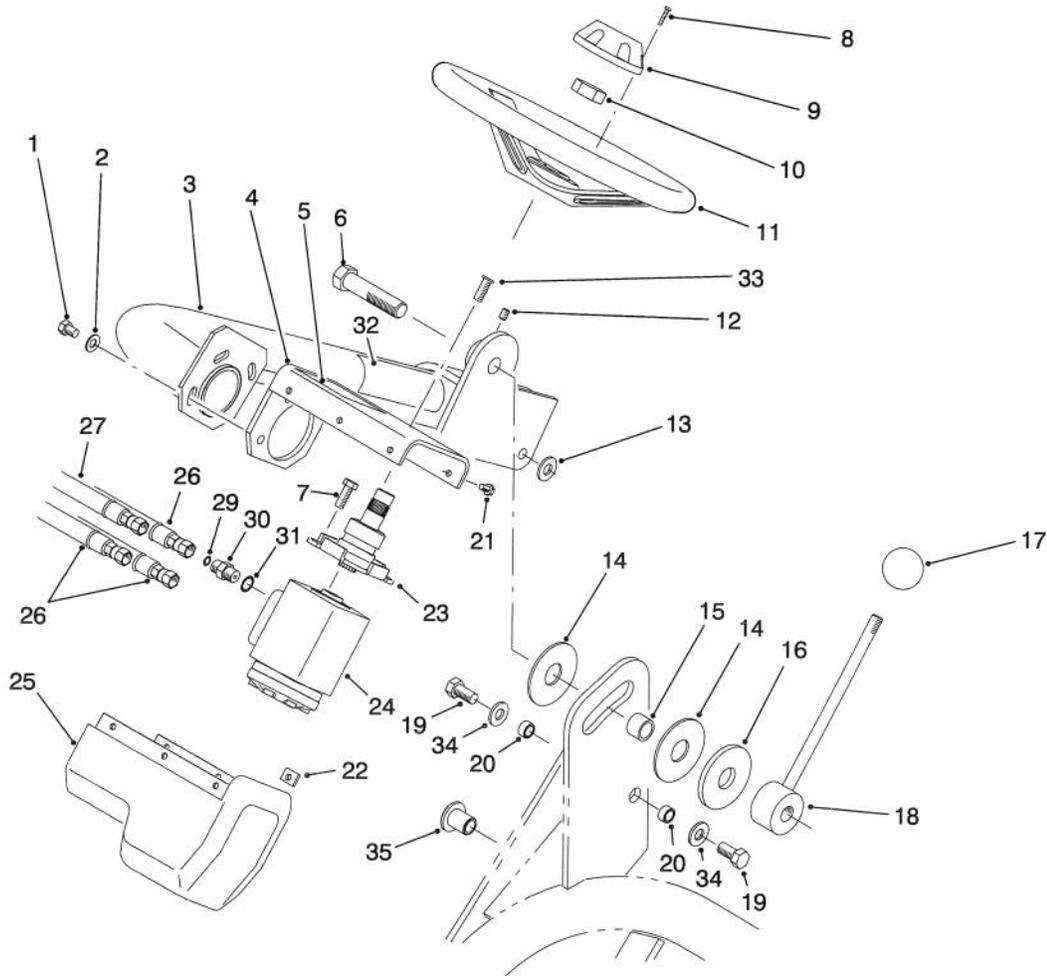
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1
51	52-5860	Collar - Spool	1
52	354-122	Disc - Seal	1
†53		Spool #4	1
54	353-953	Plug Assembly	1
55	353-844	Plus Series (Incl. Ref. #56)	1
56	353-850	O-Ring	1
57	3253-3	Washer - Lock	4
58	3274-84	Screw - Cap, Hex. Hd.	4
59	38-0410	Nut - Hex.	1
60	83-1890	Switch - Ball	1
61	353-483	Body - Anticavitation	1
62	353-484	Retainer - Ball	1
63	353-737	Ball	1
64	92-2546	Wiper - Seal	5
*	354-129	Anticavitation Check Assy. (Incl. Ref. #3, 4, 5, 7, 8 & 61-63)	1
*	353-835	Seals - Section Set (Incl. Ref. #6 & 9)	1
*	93-3652	Boot - Spool Assembly (Incl. Ref. #45-47)	3
*	354-131	Section #3 Assembly (Complete)	1

Ref. No.	Part No.	Description	No. Used
*	354-25	Section #4 Assembly (Complete)	1
*	93-1386	Section #5 Assembly (Complete)	1
*	353-841	Position - Spool Assembly (Incl. Ref. #20 27 37 & 51)	1
*	353-840	Position - DI (SP) Assy. (Incl. Ref. #37-43)	1
*	353-642	Relief - RC Mod. Assembly (Incl. Ref. #3-5 & 29-36)	1
*	353-833	Positioner Assembly (Incl. Ref. #19-28)	1
*	84-2203	Control Valve Assembly Complete	1
*	92-2548	Seals - Spool (Single End Set) (Incl. Ref. #15, 18 & 64)	1
*	92-2549	Seals - Spool (End Set #4 Rear Only) (Incl. Ref. #15, 16 & 18)	1
*	92-2545	Seals - Spool (Entire Valve Set)	1

\*Not Illustrated

†Parts Available as Assemblies Listed as (\*Not Illustrated) on This Page

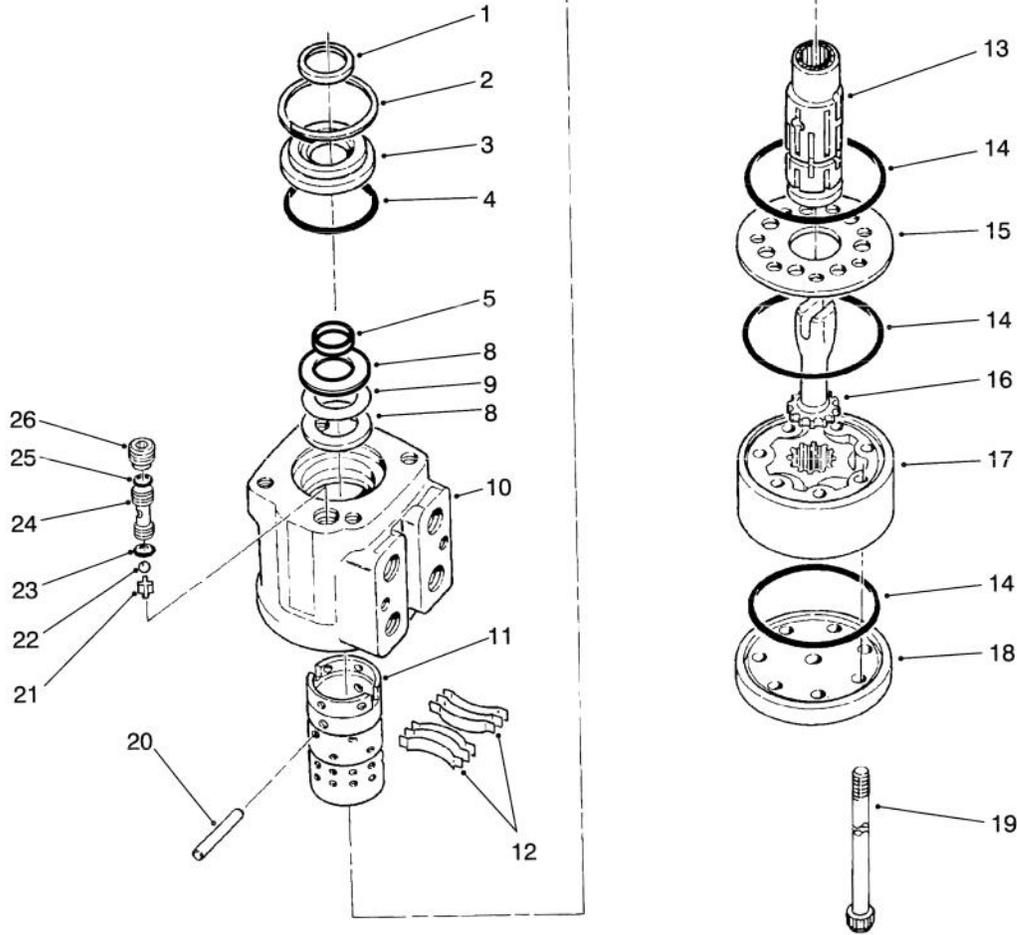


T-1291

## STEERING ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274-80	Screw - Cap Hex. Hd.	3
2	3256-80	Washer - Flat	3
3	83-0650	Arm - Steering	1
4	83-0780	Support - Steering Valve	1
5	93-8063	Decal - Warning	1
5	83-2520	Decal - Warning (Japanese)	1
6	83-0750	Screw - Cap Hex. Hd. L.H.	1
7	323-4	Screw - Cap Hex. Hd.	2
8	32144-21	Screw - Round Hd.	2
9	68-5140	Cap - Steering Wheel	1
10	47-6990	Nut - Steering Wheel	1
11	68-5130	Steering Wheel Assembly (Incl. Ref. #8 & 9)	1
12	3246-3	Screw - Set	1
13	65-6390	Washer - Thrust	1
14	83-0740	Disc - Friction	2
15	83-0730	Spacer - Lockup	1
16	83-0760	Plate - Lockup	1
17	233-48	Knob	1
18	83-0700	Handle - Lockup	1

Ref. No.	Part No.	Description	No. Used
19	325-4	Screw - Cap Hex. Hd.	2
20	47-2890	Bushing - Sleeve	2
21	3274-39	Screw - Cap Hex. Hd.	6
22	3290-277	Nut - Speed	6
23	83-1420	Column - Steering	1
24	92-8690	Steering - Valve Assembly	1
25	83-0810	Cover - Steering Valve	1
26	83-1350	Hose - Hydraulic	2
27	83-1360	Hose - Hydraulic	1
28	83-1370	Hose - Hydraulic	1
29	237-21	Seal - O-Ring	4
30	340-1	Fitting - Hydraulic Straight (Incl. Ref. #29 & 31)	4
31	237-42	Seal - O-Ring	4
32	93-8068	Decal - Steering Arm	1
32	83-2510	Decal - Steering Arm (Japanese)	1
33	3274-63	Screw - Hex. Socket Hd.	2
34	3256-26	Washer - Flat	2
35	83-1700	Bushing - Flange	1



T-1442

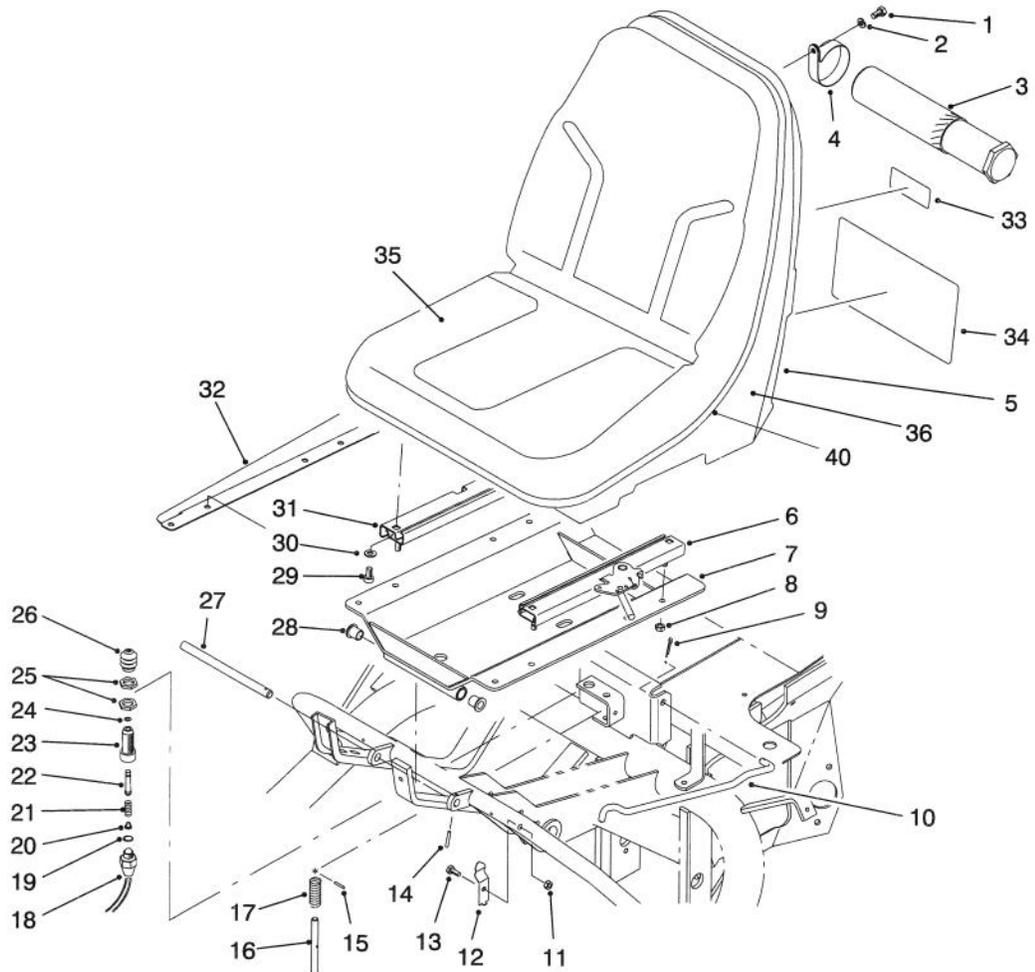
## POWER STEERING VALVE NO. 92-8690

Ref. No.	Part No.	Description	No. Used
†1		Seal - Dust	1
2	52-9230	Ring - Retaining	1
3	92-8691	Bushing - Seal Gland	1
†4		O-Ring	1
†5		Seal - One Piece	1
8	59-6730	Race - Bearing	2
9	59-6740	Bearing - Needle Thrust	1
†10		Housing	1
†11		Sleeve - Control	1
12	83-1860	Centering Spring Kit	1
†13		Spool - Control	1
†14		O-Ring	3
15	92-8697	Plate - Wear	1
16	70-8250	Drive	1
17	83-1870	Gerotor	1

Ref. No.	Part No.	Description	No. Used
18	67-8113	Cap - End	1
19	92-8696	Screw - Torx Hd.	7
20	59-6830	Centering Pin Kit	1
21	52-9290	Retainer - Ball Check	1
22	52-9280	Ball - Check	1
†23		O-Ring	1
24	52-9270	Seat - Ball Check	1
†25		O-Ring	1
26	52-9260	Screw - Set	1
*	83-1880	Control Parts Assembly (Incl. Ref. #10-13 & 20)	1
*	92-8695	Seal Kit (Incl. Ref. #1, 4, 5, 14, 23 & 25)	1

\*Not Illustrated

†Not Serviced Separately



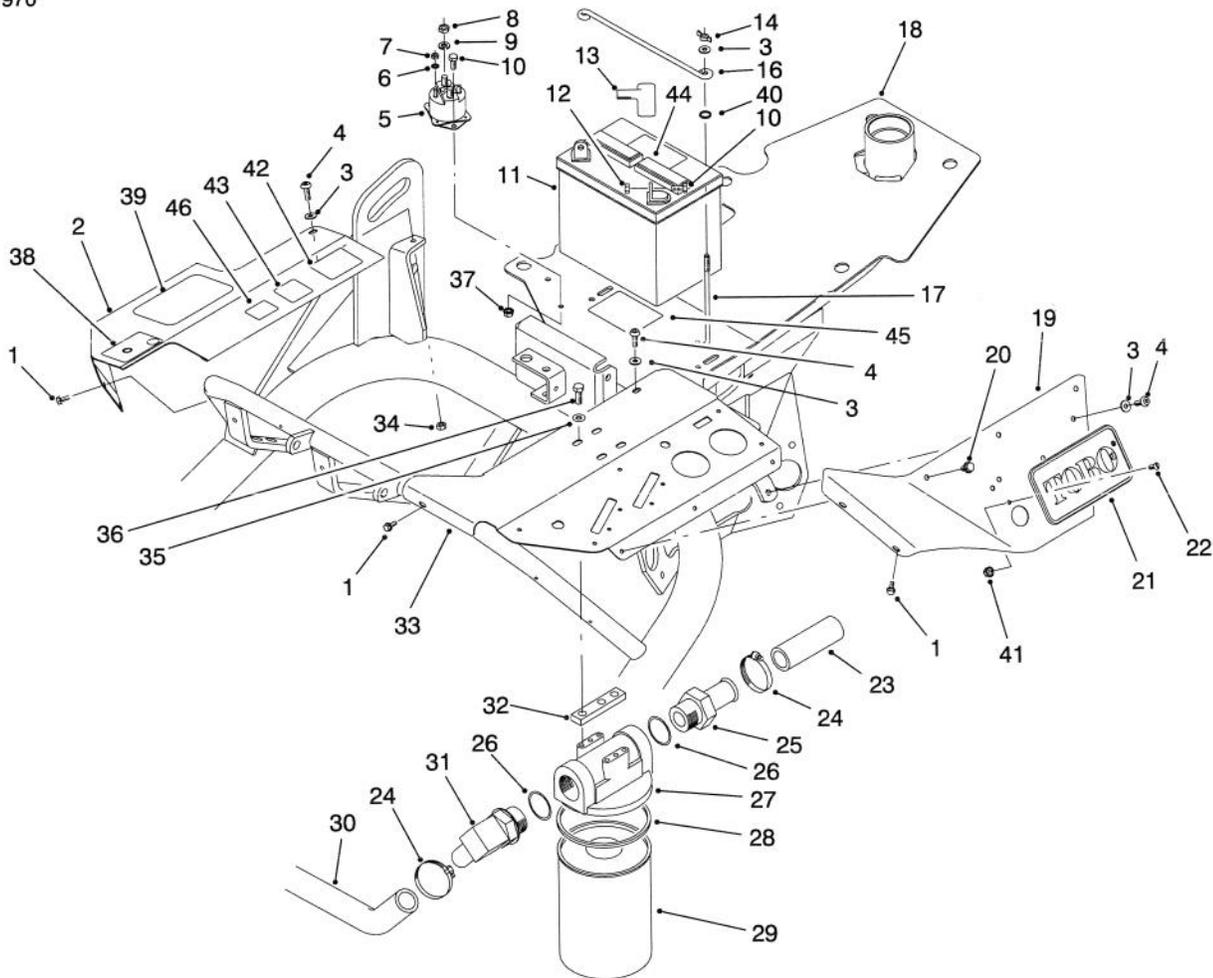
T-1290A

## SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-2	Screw - Cap Hex. Hd.	2
2	3253-4	Washer - Lock	2
3	74-0720	Tube - Manual	1
4	2412-133	Clamp - R	2
5	92-1180	Seat Assembly (Incl. Ref. #35, 36 & 40)	1
6	51-0790	Adjuster - Seat	1
7	83-1270	Seat Support Assembly (Incl. Ref. #28)	1
8	3296-29	Nut - Lock	4
9	3272-11	Pin - Cotter	1
10	68-5100	Rod - Seat Prop	1
11	3296-16	Nut - Lock	1
12	68-5310	Clip - Seat Rod	1
13	321-3	Screw - Cap Hex. Hd.	1
14	32121-45	Pin - Roll	1
15	3284-3	Pin - Groove	1
16	51-0350	Pin - Seat Spring	1
17	3-6685	Spring - Compression	1
18	72-4320	Switch - Ball	1
19	237-30	Seal - O-Ring	1
20	43-8610	Seat - Ball	1
21	43-8600	Spring - Compression	1
22	43-8860	Plunger - Switch	1
23	43-8620	Guide - Switch	1
24	237-7	Seal - O-Ring	1
25	218-461	Nut - Hex.	2

Ref. No.	Part No.	Description	No. Used
26	43-8870	Boot - Switch	1
27	49-5880	Shaft - Seat Support	1
28	256-155	Bushing - Flange	2
29	3274-12	Screw - Hex. Socket Hd.	4
30	3256-23	Washer - Flat	4
31	51-0780	Slider - Seat	1
32	83-1840	Cover - R.H.	1
33	93-8067	Decal - Oil	1
33	84-3180	Decal - Oil (Japanese)	1
34	94-8036	Decal - Service	1
34	84-9240	Decal - Service (Spanish)	1
34	84-9250	Decal - Service (French)	1
34	84-9260	Decal - Service (German)	1
34	84-9270	Decal - Service (Swedish)	1
34	84-9280	Decal - Service (Italian)	1
34	93-7257	Decal - Service (Portuguese)	1
34	93-7258	Decal - Service (Norwegian)	1
34	93-7259	Decal - Service (Finnish)	1
34	93-7260	Decal - Service (Danish)	1
34	93-7261	Decal - Service (Dutch)	1
34	83-2490	Decal - Service (Japanese)	1
35	92-6533	Kit - Cushion	1
36	92-6534	Shell	1
40	351-78	Edging	1
*	43-9071	Seat Switch Assembly (Incl. Ref. #18-26)	1

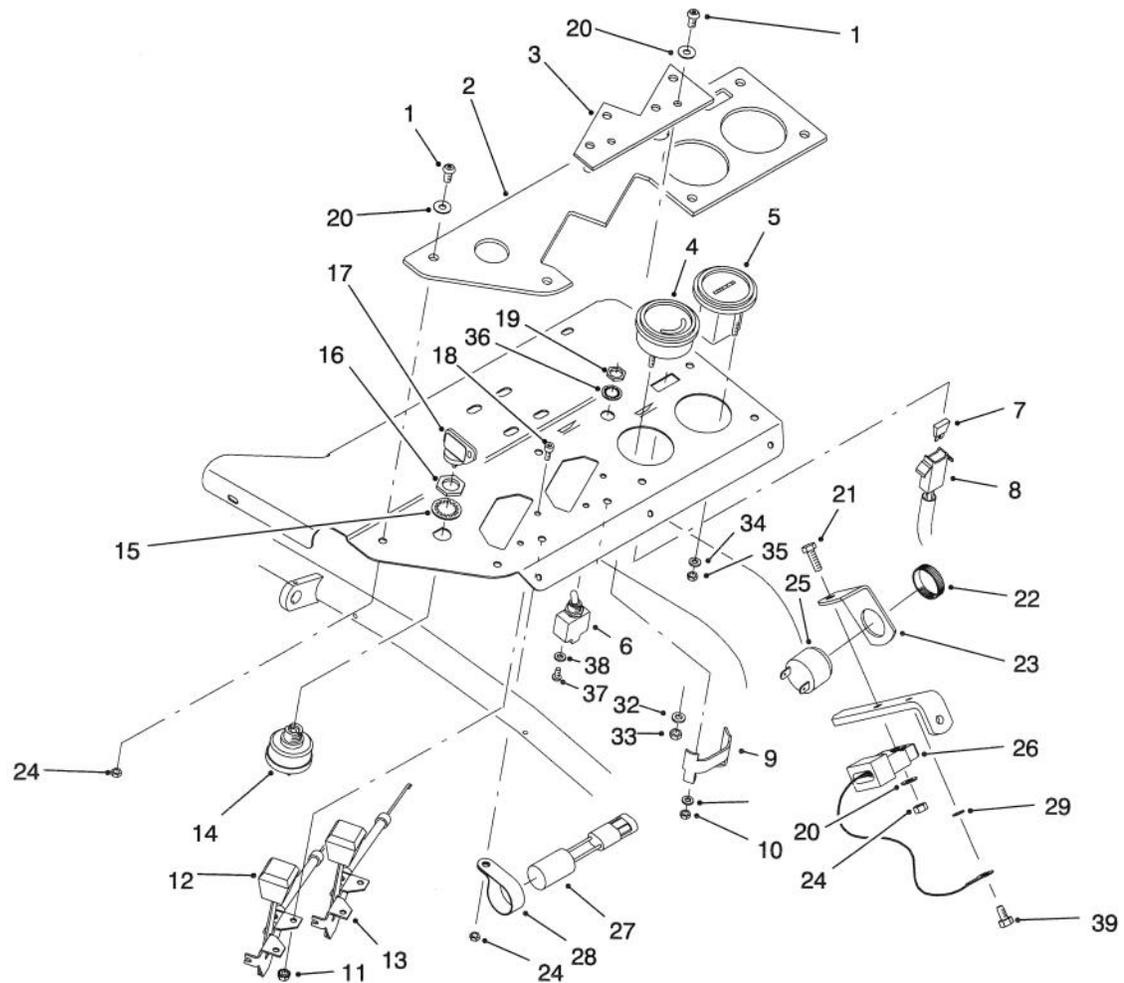
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T-1295B

## FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32104-76	Screw - Self Tapping	5	26	237-101	Seal - O-Ring	2
2	94-2694	Cover - R.H.	1	27	44-5560	Head - Oil Filter	1
3	3256-22	Washer - Flat	5	28	72-3850	Seal - Filter	1
4	3274-64	Screw - Hex. Socket Hd.	3	29	74-3570	Filter - Hydraulic Oil (Incl. Ref. #28)	1
5	28-4210	Solenoid - Starter	1	30	68-5880	Hose - Hydraulic	1
6	3254-1	Washer - Lock	2	31	353-564	Fitting - Hydraulic 90° (Incl. Ref. #26)	1
7	3219-14	Nut - Hex.	2	32	27-2380	Spacer	2
8	3218-13	Nut - Jam	2	33	83-0830	Panel - Control Upper	1
9	3253-4	Washer - Lock	2	34	3296-16	Nut - Lock	3
10	321-3	Screw - Cap Hex. Hd.	4	35	3256-23	Washer - Flat	4
11	28-1400	Battery	1	36	322-4	Screw - Cap Hex. Hd.	4
12	3217-5	Nut - Hex.	2	37	32149-2	Nut - Keps	2
13	28-8080	Boot Terminal	1	38	93-8065	Decal - Traction	1
14	32103-12	Nut - Wing	2	38	83-2540	Decal - Traction (Japanese)	1
16	72-4790	Hold-Down - Battery	1	39	67-1300	Decal - TORO	1
17	56-7720	Bolt - Battery	2	40	237-143	Grommet	2
18	92-9164	Frame Assembly	1	41	32149-7	Nut - Keps	2
19	83-0840	Fender - L.H.	1	42	92-5524	Decal - Noise Rating	1
20	46-8560	Screw - Self Taping	3	43	63-9920	Decal - EEC	1
21	61-3310	Plate - Logo	1	44	93-7276	Decal - Danger	1
22	3290-470	Screw - Flat Hd.	2	45	93-6668	Decal - Danger	1
23	83-1430	Hose - Hydraulic	1	46	93-7252	Decal - C.E. Mark	1
24	2412-34	Clamp - Hose	2				
25	353-563	Fitting - Hydraulic Straight (Incl. Ref. #26)	1				

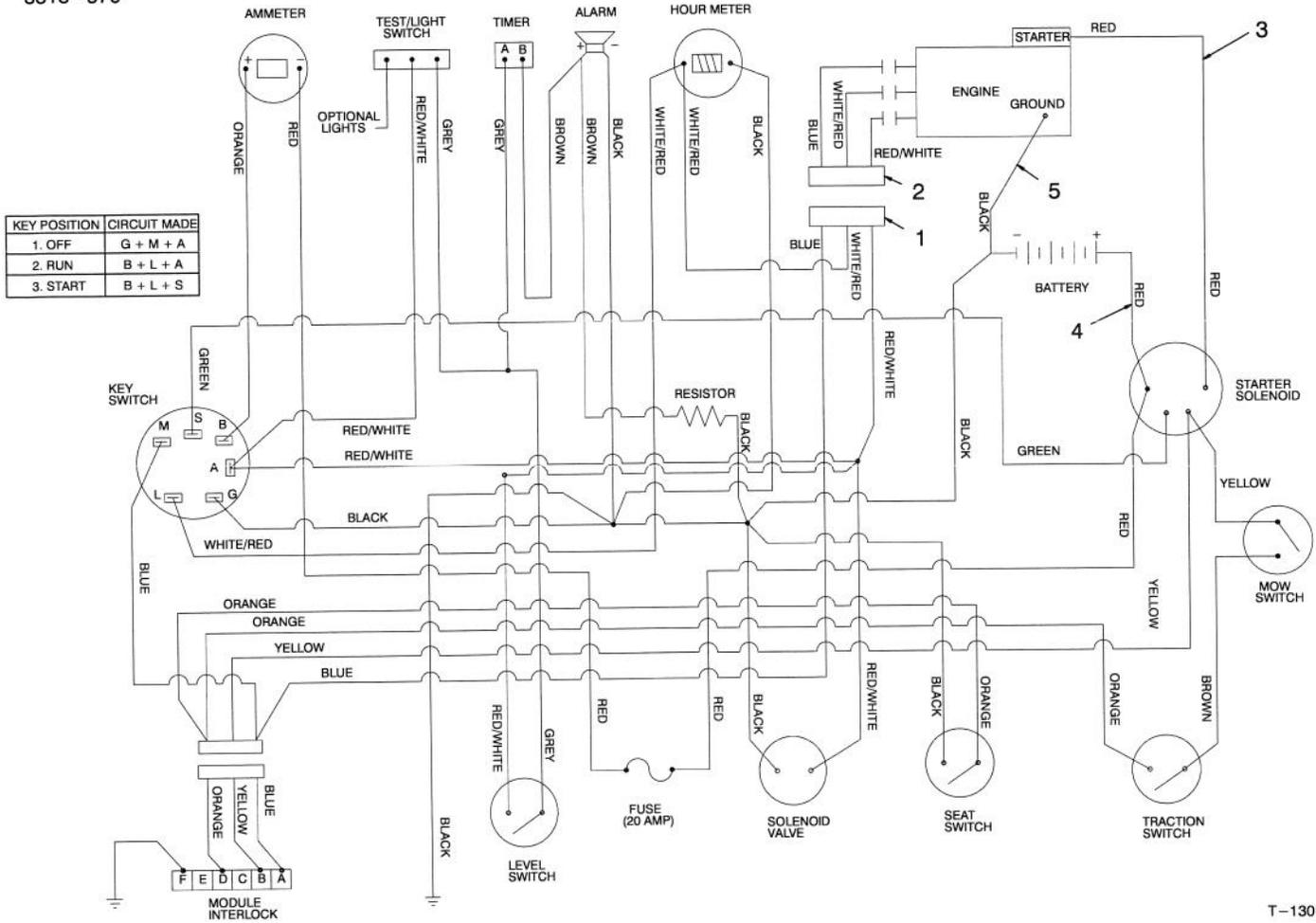


T-1296B

## CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274-69	Screw - Hex. Socket Hd.	8
2	93-8061	Plate - Control	1
2	83-2570	Plate - Control (Japanese)	1
3	83-2030	Plate - Filler	1
4	83-0820	Gauge - Ammeter (Incl. Ref. #9-10 & 31-33)	1
5	66-2950	Gauge - Hourmeter (Incl. Ref. #34 & 35)	1
6	83-1660	Switch Assembly (Incl. Ref. #19 & 36-38)	1
7	218-594	Fuse - 20 Amp	1
8	83-1100	Harness - Wire (Main)	1
9	94-6960	Clamp - Mounting	1
10	3217-27	Nut - Hex.	2
11	3296-27	Nut - Lock	4
12	83-0030	Control - Throttle	1
13	83-0040	Control - Choke	1
14	83-0020	Ignition Switch Assembly (Incl. Ref. #15-16)	1
15	3254-5	Washer - Lock	2
16	218-461	Nut - Hex.	2
17	63-8360	Key - Ignition	1

Ref. No.	Part No.	Description	No. Used
18	3273-26	Screw - Hex. Socket Hd.	4
19	218-498	Nut - Hex.	2
20	3256-1	Washer - Flat	9
21	321-5	Screw - Cap Hex. Hd.	1
22		Retainer - Alarm	1
23	83-1530	Bracket - Alarm	1
24	3296-16	Nut - Lock	9
25	80-9330	Audio Alarm Assembly (Incl. Ref. #22)	1
26	95-0659	Module - Interlock	1
27	83-2280	Timer - Relay	1
28	2412-39	Clamp - R	1
29	3255-7	Washer - Lock, Int. Tooth	1
31	3254-10	Washer - Lock, Int. Tooth	2
32	3255-24	Washer - Lock, Ext. Tooth	3
33	3217-16	Nut - Hex.	3
34	3255-20	Washer - Lock, Ext. Tooth	2
35	3217-25	Nut - Hex.	2
36	218-589	Washer - Lock	1
37	218-588	Screw	3
38	3253-19	Washer - Lock	3
39	32104-17	Screw - Hex. Hd.	1

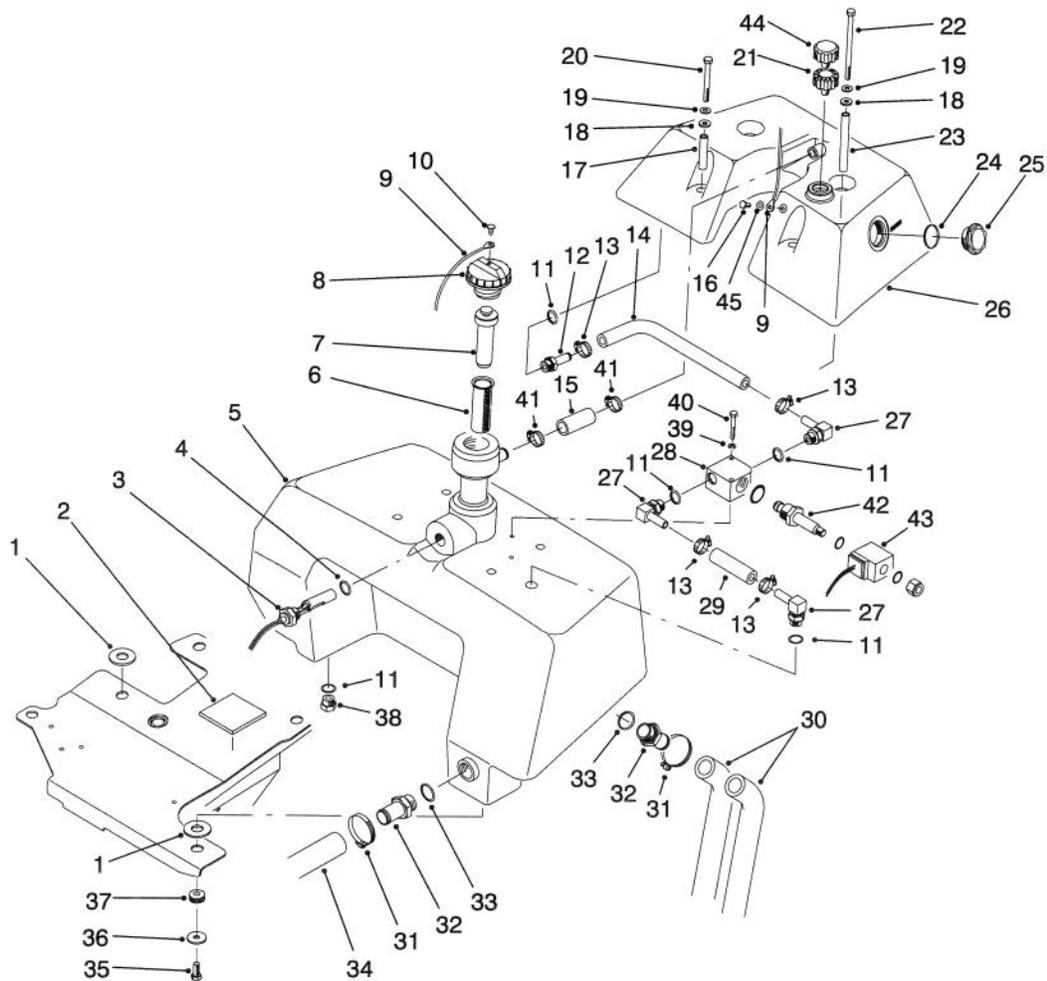


T-1301

## ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	83-1100	Harness - Wire (Main)	1
2	83-1110	Harness - Wire (Engine)	1
3	83-1160	Wire - Solenoid-Starter	1

Ref. No.	Part No.	Description	No. Used
4	83-2420	Wire - Solenoid-Battery	1
5	83-1150	Wire - Engine Ground	1

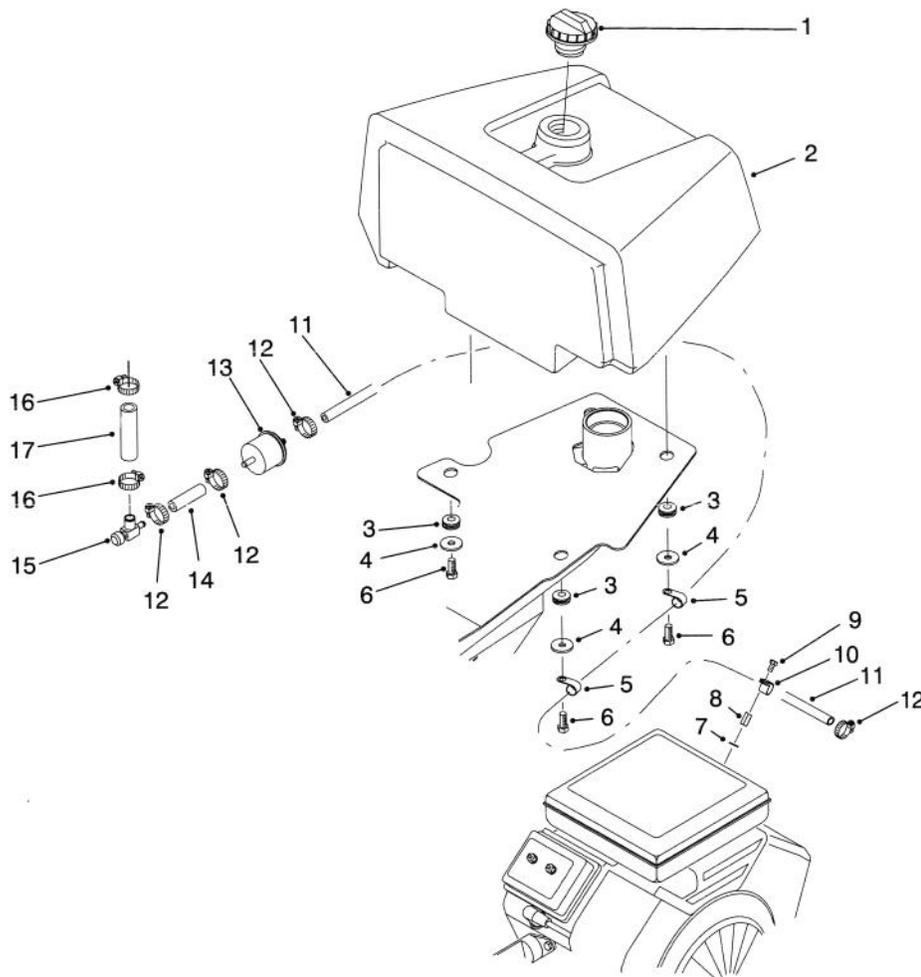


T-1289

## HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83-2400	Spacer - Tank	2
2	83-2390	Pad - Tank	1
3	83-1450	Sensor - Oil Level	1
4	237-80	Seal - O-Ring	1
5	92-8966	Reservoir - Hydraulic	1
6	83-1520	Screen - Filler	1
7	92-4063	Plug - Filler Cap	1
8	93-7160	Cap - Hydraulic Reservoir (Incl. Ref. #9 & 10)	1
9	75-0540	Tether - Cap	1
10	2410-73	Retainer - Tether	1
11	237-79	Seal - O-Ring	5
12	354-121	Fitting - Hydraulic Straight (Incl. Ref. #11)	1
13	2412-36	Clamp - Hose	4
14	83-2070	Hose - Valve	1
15	83-2090	Hose - Overflow	1
16	321-2	Screw - Cap Hex. Hd.	1
17	83-1550	Spacer - Tank (Short)	2
18	83-1470	Washer - Neoprene	4
19	3256-23	Washer - Flat	4
20	322-14	Screw - Cap Hex. Hd.	2
21	92-8020	Adapter - Breather	1
22	322-29	Screw - Cap Hex. Hd.	2
23	83-1560	Spacer - Tank (Long)	2
24	237-123	Seal - O-Ring	1

Ref. No.	Part No.	Description	No. Used
25	83-2250	Gauge - Sight (Incl. Ref. #24)	1
26	83-2100	Tank - Auxiliary Hydraulic	1
27	354-120	Fitting - Hydraulic 90° (Incl. Ref. #11)	3
28	83-1460	Solenoid Valve Assembly (Incl. Ref. #42 & 43)	1
29	83-2080	Hose - Valve-Tank	1
30	83-0910	Hose - Hydraulic	2
31	2412-34	Clamp - Hose	3
32	83-0870	Fitting - Hydraulic Straight (Incl. Ref. #33)	3
33	237-177	Seal - O-Ring	3
34	83-1430	Hose - Hydraulic	1
35	323-6	Screw - Cap Hex. Hd.	3
36	63-8410	Washer - Flat	3
37	240-11	Grommet	3
38	353-550	Plug - Hydraulic (Incl. Ref. #11)	1
39	3253-3	Washer - Lock	2
40	321-11	Screw - Cap Hex. Hd.	2
41	2412-141	Clamp - Hose	2
42	83-2000	Spool - Valve	1
43	83-2010	Coil - Valve	1
44	68-6150	Breather	1
45	3256-22	Washer - Flat	1



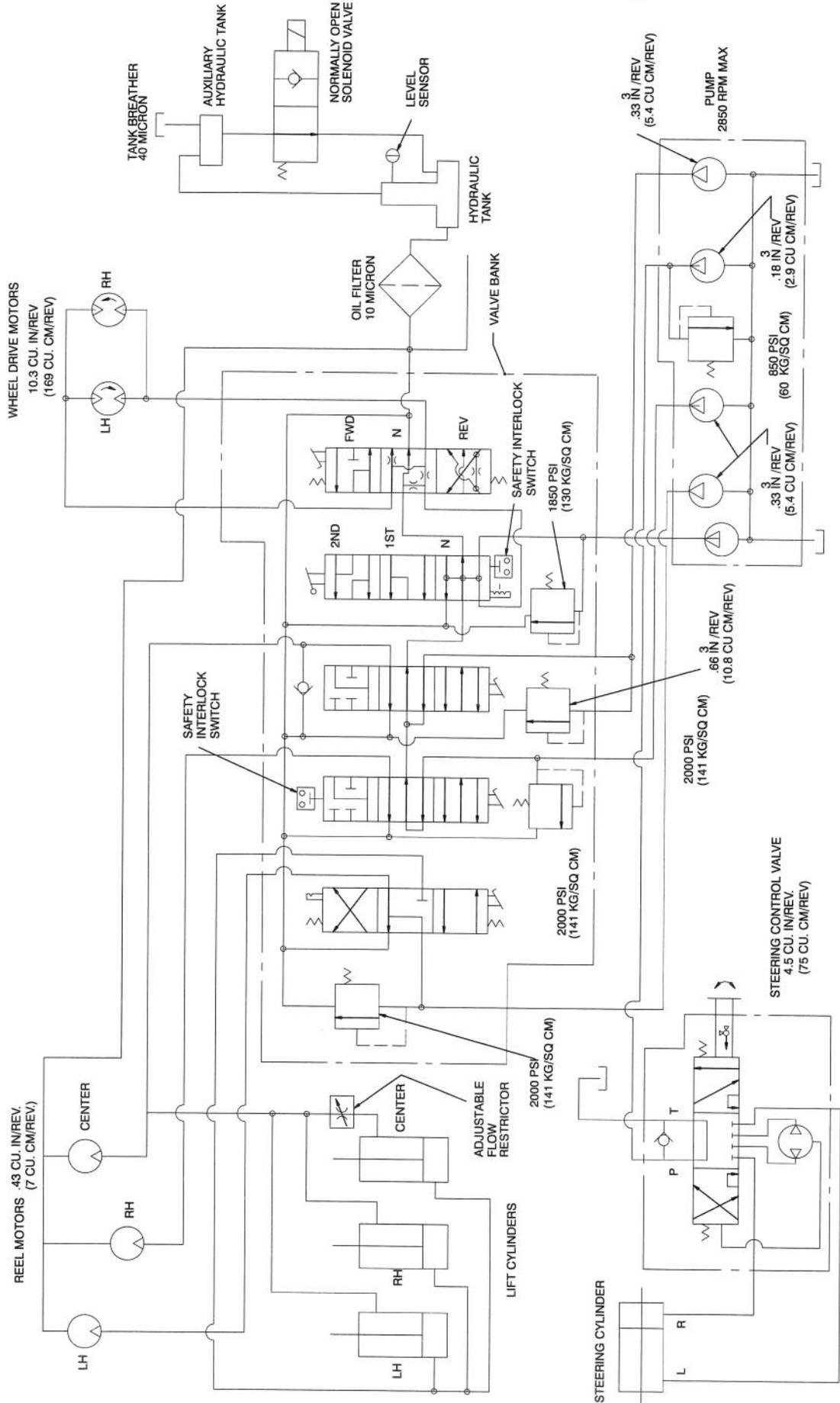
T-1317

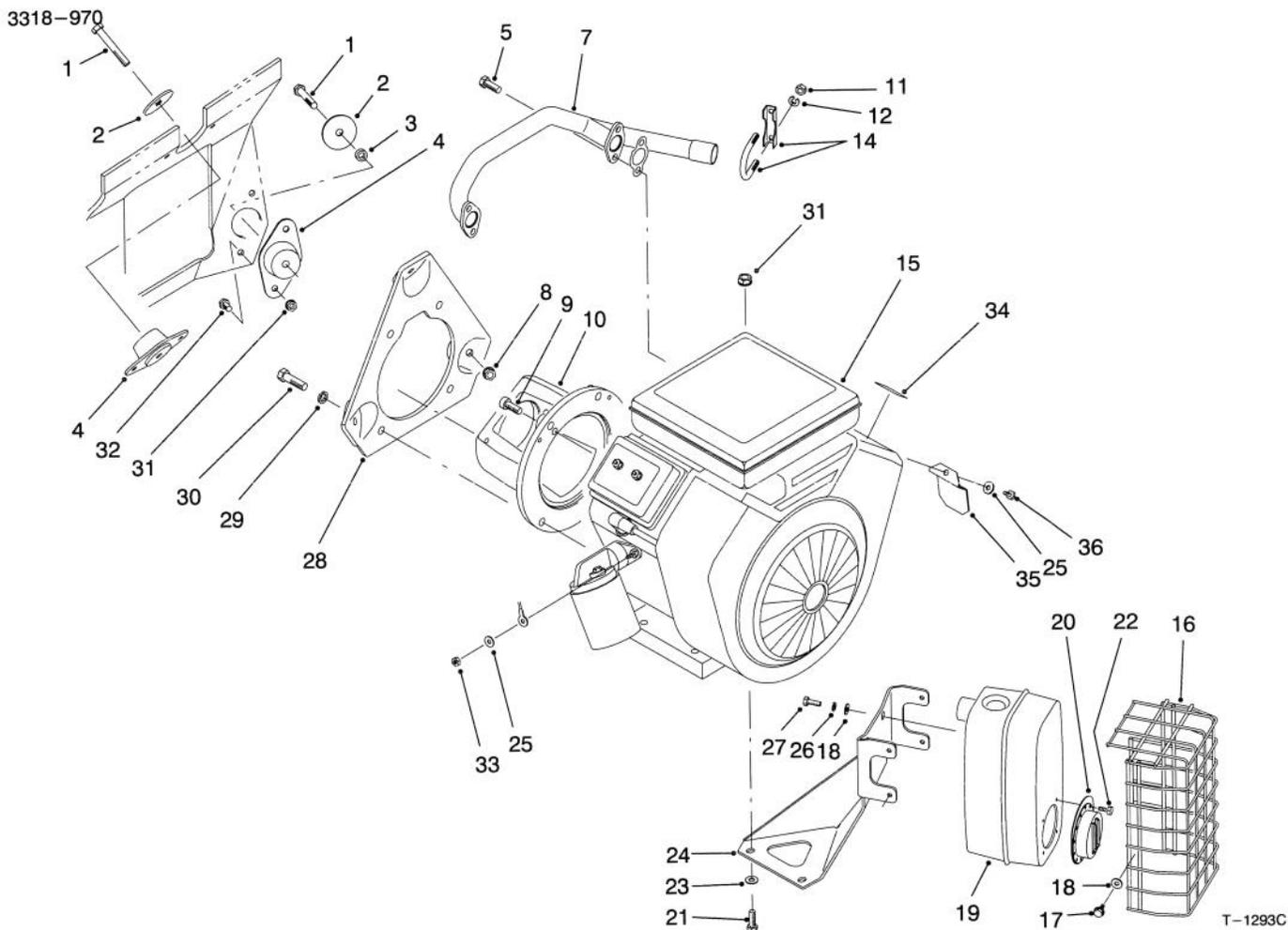
## FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93-7170	Cap - Fuel	1
2	92-7189	Tank - Fuel	1
3	240-11	Grommet	4
4	63-8410	Washer - Flat	4
5	2412-41	Clamp - R	3
6	323-6	Screw - Cap Hex. Hd.	3
7	3256-63	Washer - Flat	1
8	83-2200	Nut - Special	1
9	48-7610	Screw - Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
10	2412-94	Clamp - R	1
11	83-2041	Hose - Fuel	1
12	2412-108	Clamp - Hose	4
13	94-2690	Filter - Fuel	1
14	83-2040	Hose - Fuel	1
15	83-1390	Fitting - Fuel Shut-Off	1
16	2412-36	Clamp - Hose	2
17	56-2230	Hose - Fuel	1

# HYDRAULIC SCHEMATIC



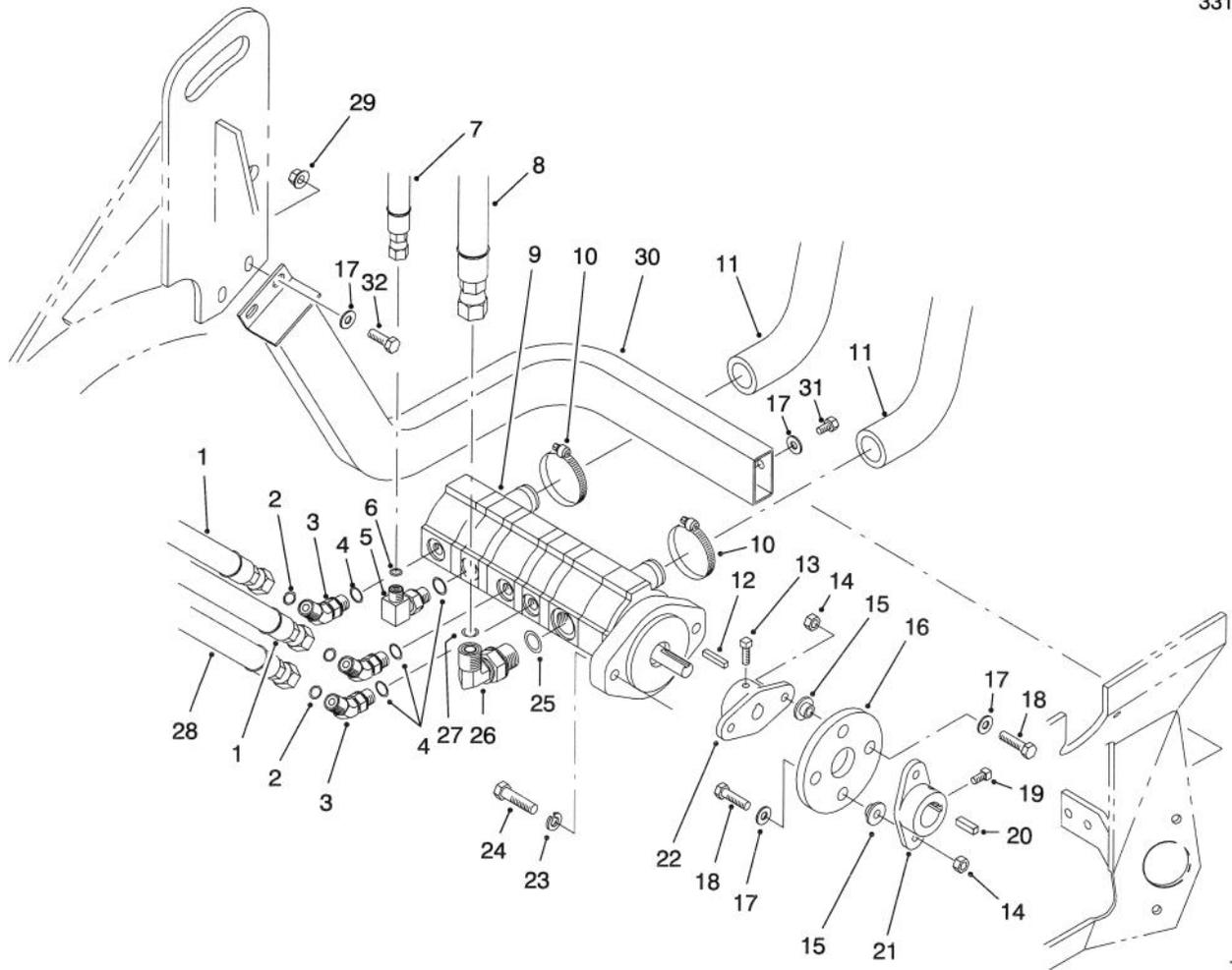


## ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323-12	Screw - Cap Hex. Hd.	3
2	83-1040	Washer - Mount	3
3	83-1050	Spacer - Mount	2
4	83-1030	Mount - Engine	3
5		Screw - Cap Hex. Hd.	4
7	83-1080	Pipe - Exhaust	1
8	3290-357	Nut - Flange Lock	3
9	3274-7	Screw - Socket Hd.	2
10	83-1060	Adapter - Pump	1
11		Nut - Hex.	2
12		Washer - Lock	2
14	2112-11	Clamp - Muffler (Incl. Ref. #11 & 12)	1
15	83-0010	Engine Assembly (Incl. Ref. #5)	1
16	83-1400	Shield - Muffler	1
17	12-3270	Screw - Hex. Washer Hd.	4
18	3256-1	Washer - Flat	8
19	493963	Muffler	1
*	83-2240	Arrestor - Spark (Optional)	1
20	83-2220	Deflector - Exhaust	1

Ref. No.	Part No.	Description	No. Used
21	322-8	Screw - Cap Hex. Hd.	2
22	83-2230	Screw - Cap Hex. Hd.	4
23	3256-23	Washer - Flat	2
24	83-1630	Bracket - Muffler Support	1
25	43-5930	Washer - Lock	2
26	3253-3	Washer - Lock	4
27	321-4	Screw - Cap Hex. Hd.	4
28	85-8120	Plate - Engine Mount	1
29	3253-6	Washer - Lock	4
30	324-7	Screw - Cap Hex. Hd.	4
31	32128-20	Nut - Flange Lock	8
32	322-3	Screw - Cap Hex. Hd.	6
33	43-2830	Nut - Hex	1
34	93-8069	Decal - Warning	1
34	83-2560	Decal - Warning (Japanese)	1
35	83-2310	Shield	1
36	48-7620	Screw - Cap Hex. Hd.	1
*	3290-378	Tie - Cable	2
*	250-6	Tie - Cable	2

\*Not Illustrated

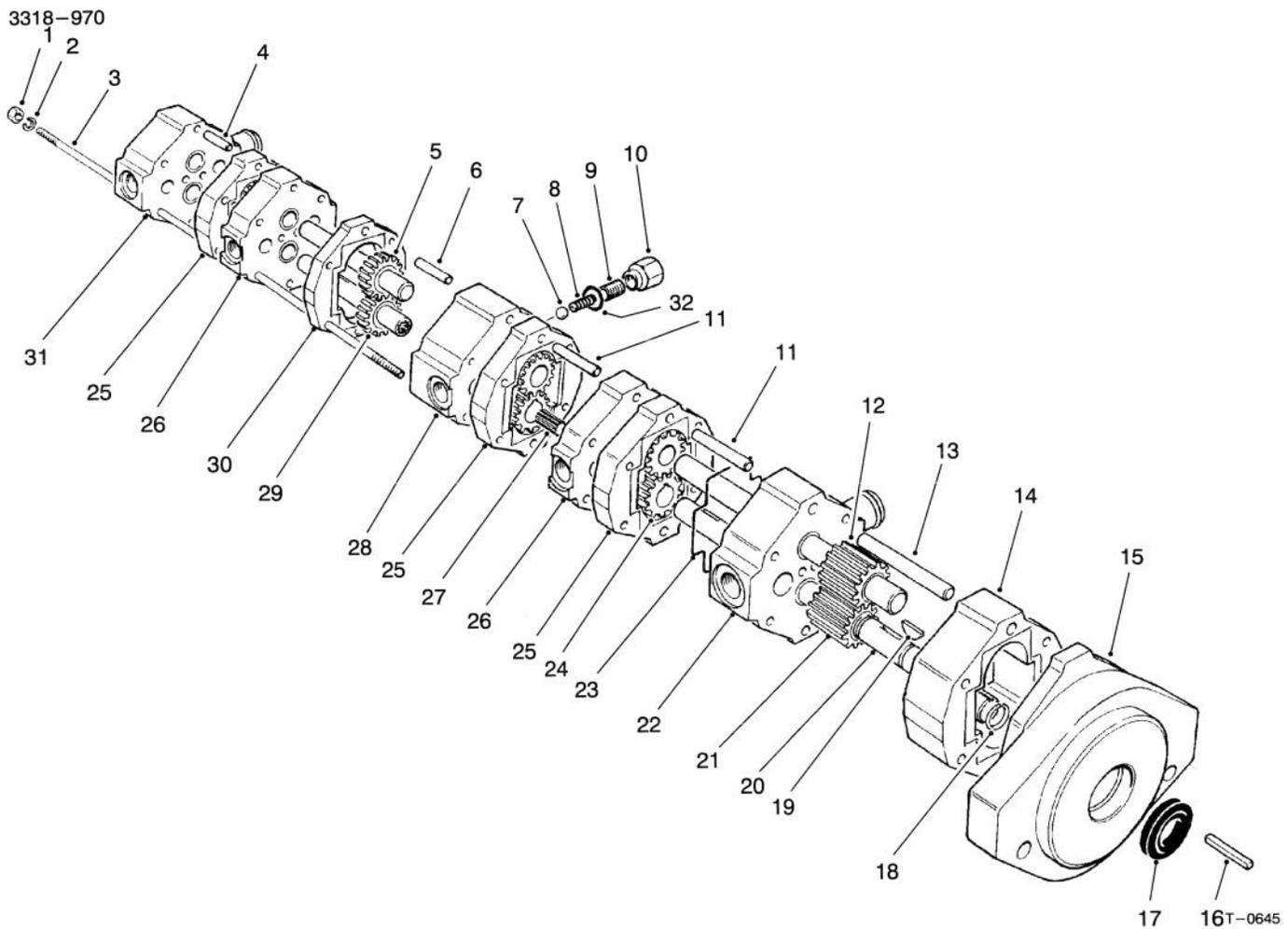


T-1292

## HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83-1190	Hose - Hydraulic	2
2	237-22	Seal - O-Ring	3
3	340-87	Fitting - Hydraulic 45° (Incl. Ref. #2 & 4)	3
4	237-42	Seal - O-Ring	4
5	340-82	Fitting - Hydraulic 90° (Incl. Ref. #4 & 6)	1
6	237-21	Seal - O-Ring	1
7	83-1350	Hose - Hydraulic	1
8	83-1180	Hose - Hydraulic	1
9	92-9764	Hydraulic Pump Assembly (Incl. Ref. #12)	1
10	2412-34	Clamp - Hose	2
11	83-0910	Hose - Pump	2
12	5-0946	Key - Square	1
13	3241-6	Screw - Set Square Hd.	2
14	3296-29	Nut - Lock	4
15	27-6600	Spacer - Coupling	4

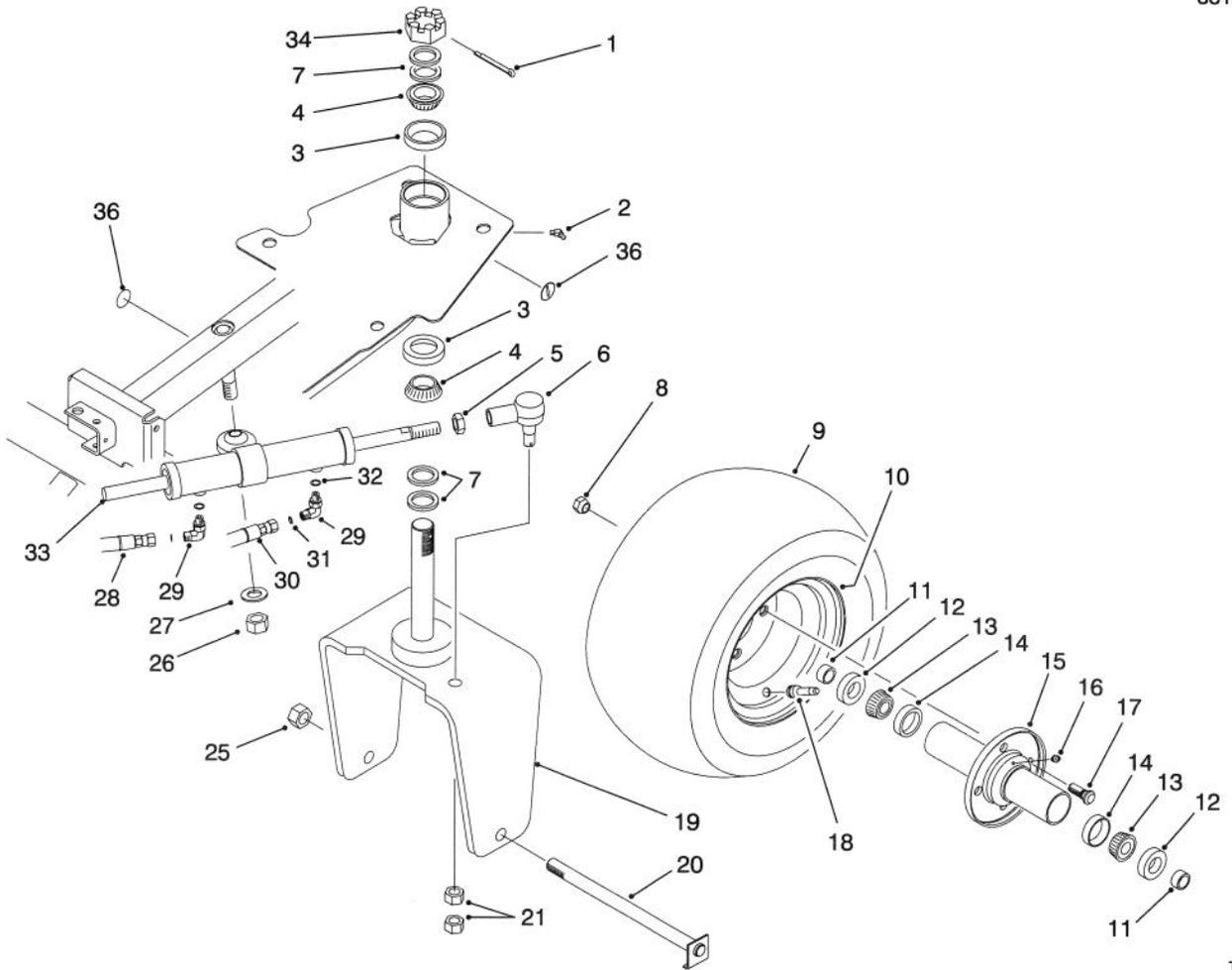
Ref. No.	Part No.	Description	No. Used
16	44-2230	Coupling - Rubber	1
17	3256-23	Washer - Flat	8
18	322-6	Screw - Cap Hex. Hd.	4
19	3241-2	Screw - Set Square Hd.	2
20	10-7070	Key - Square	1
21	27-1960	Hub - Engine	1
22	27-1970	Hub - Pump	1
23	3253-21	Washer - Lock	2
24	323-8	Screw - Cap Hex. Hd.	2
25	237-80	Seal - O-Ring	1
26	340-105	Fitting - Hydraulic 90° (Incl. Ref. #25 & 27)	1
27	237-30	Seal - O-Ring	1
28	83-1170	Hose - Hydraulic	1
29	32128-20	Nut - Flange Lock	2
30	83-1940	Guard - Pump	1
31	322-1	Screw - Cap Hex. Hd.	2
32	322-4	Screw - Cap Hex. Hd.	2



## HYDRAULIC PUMP 92-9764

Ref. No.	Part No.	Description	No. Used
1	3217-6	Nut - Hex.	4
2	354-16	Washer - Lock	4
3	354-17	Stud - Threaded	4
4	354-11	Pin - Dowel	2
5	354-9	Idler Shaft - Gear Assy.	1
6	354-12	Pin - Dowel	2
7		Ball - Valve	1
8		Spring - Compression	1
9		Adjuster - Valve	1
10		Cap - Adjuster, Valve	1
11	354-13	Pin - Dowel	4
12	92-9774	Idler Shaft - Gear Assy.	1
13	354-14	Pin - Dowel	2
14	92-9766	Plate - Gear 66B	1
15	354-2	Body Assembly	1
16	5-0946	Key - Square	1
17	354-15	Seal - Shaft	1

Ref. No.	Part No.	Description	No. Used
18	353-886	Ring - Retaining	2
19	353-884	Key - Woodruff	4
20	92-9772	Shaft - Drive	1
21	92-9773	Gear - 58B	1
22	354-3	Bearing Plate Assembly	1
23	353-922	Seal - Ring	10
24	353-967	Gear - 33B	6
25	353-969	Plate - Gear 33B	3
26	353-923	Bearing Plate Assembly	2
27	354-5	Adapter - Splined	1
28	354-4	Bearing Plate Assembly (Incl. Ref. #7-10 & 32)	1
29	354-8	Drive Shaft - Gear Assy.	1
30	354-6	Plate - Gear 18B	1
31	354-7	Cover Assembly	1
32	354-35	Gasket	1

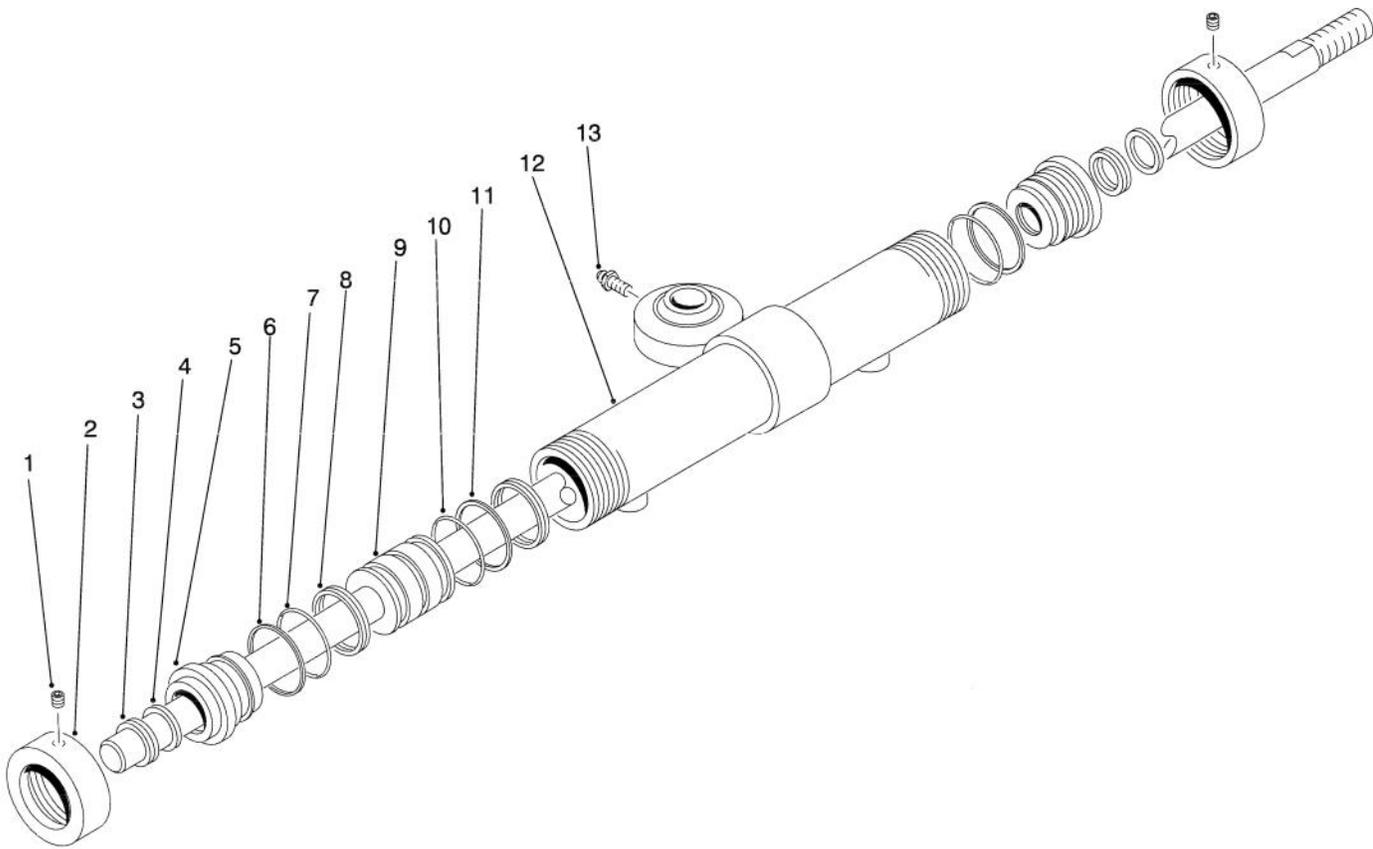


T-1288B

## REAR WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3272-37	Pin - Cotter	1
2	302-11	Fitting - Grease	1
3	254-61	Cup - Bearing	2
4	254-70	Cone - Bearing	2
5	84-5300	Nut - Jam	1
6	83-1640	Rod End Assembly	1
7	18-6320	Washer - Steering	4
8	242-50	Nut - Lug	4
9	28-3680	Tire	1
10	217-60	Rim	1
11	74-3730	Spacer - Hub	2
12	253-111	Seal - Shaft	2
13	254-78	Cone - Bearing	2
14	254-79	Cup - Bearing	2
15	75-9440	Hub - Wheel	1
16	302-55	Fitting - Grease	1
17	10-6830	Stud - Drive	4

Ref. No.	Part No.	Description	No. Used
18	232-24	Valve Stem w/Cap	1
19	93-2524	Fork - Castor	1
20	5-3934	Bolt - Castor	1
21	3220-6	Nut - Jam	2
25	3296-67	Nut - Lock	1
26	3217-12	Nut - Lock	1
27	3256-28	Washer - Flat	1
28	83-1350	Hose - Hydraulic	1
29	340-132	Fitting - Hydraulic 90° (Incl. Ref. #31 & 32)	2
30	83-1360	Hose - Hydraulic	1
31	237-21	Seal - O-Ring	2
32	237-78	Seal - O-Ring	2
33	83-2330	Hydraulic Cylinder Assy.	1
34	32136-9	Nut - Hex. Slotted	1
36	58-6520	Decal - Grease	2



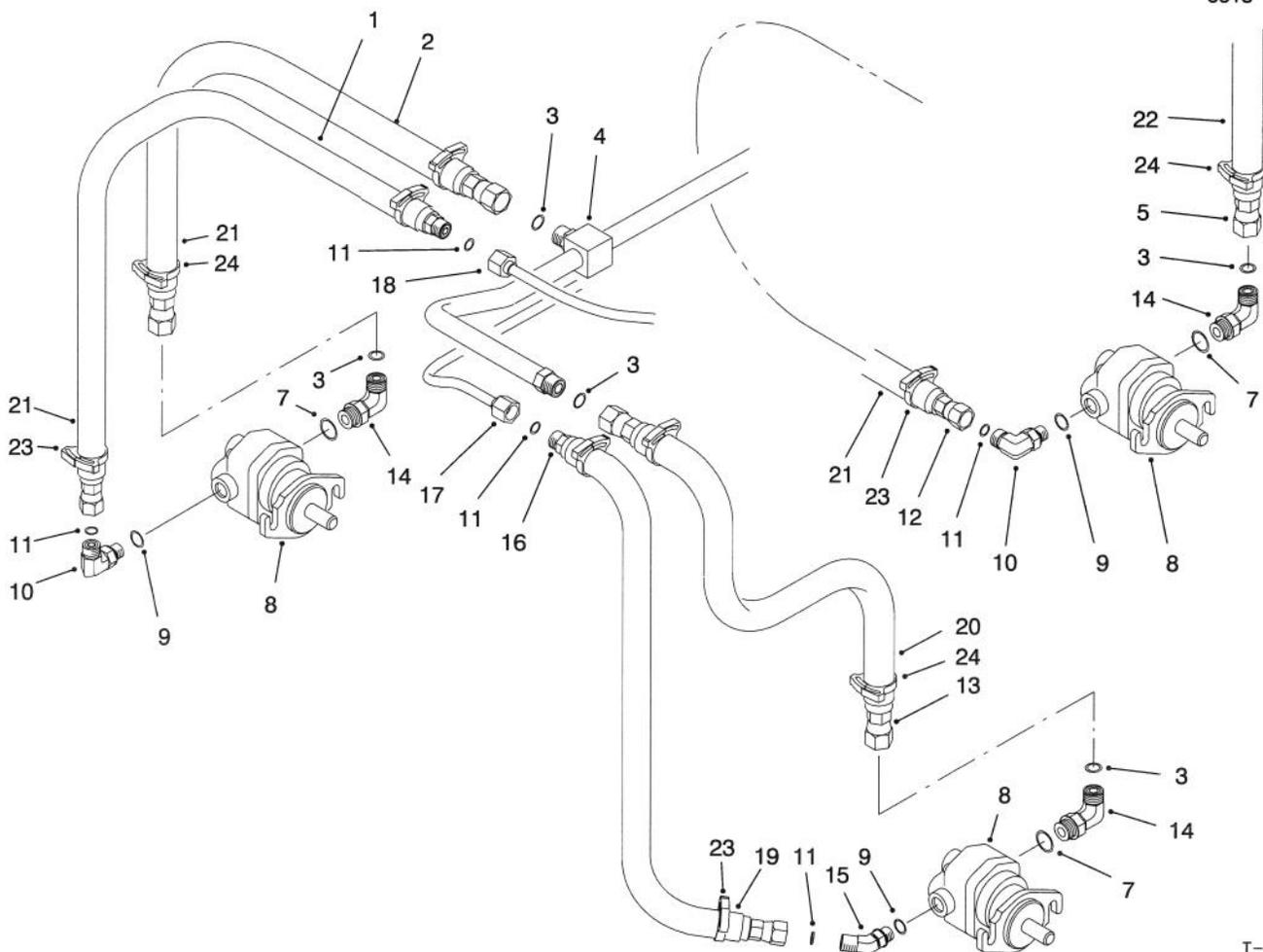
T-1313

## HYDRAULIC CYLINDER ASSEMBLY NO. 83-2330

Ref. No.	Part No.	Description	No. Used
1	3245-1	Screw - Set, Hex. Soc. Hd.	2
2	83-2340	Cap - Threaded	2
3		Wiper - Rod	2
4		U-Cup - Double Lip	2
5	83-2350	Cap - Head, Thread	2
6		Ring - Back-Up	2
7		O-Ring	2
8		Ring - Wear	2

Ref. No.	Part No.	Description	No. Used
9	83-2360	Assembly - Rod	1
10		O-Ring	1
11		Ring - Piston, Urithane	1
12	83-2370	Assembly - Barrei	1
13	302-5	Fitting - Grease	1
*	83-2380	Kit - Seal Repair (Incl. Ref. #1-7)	1

\*Not Illustrated

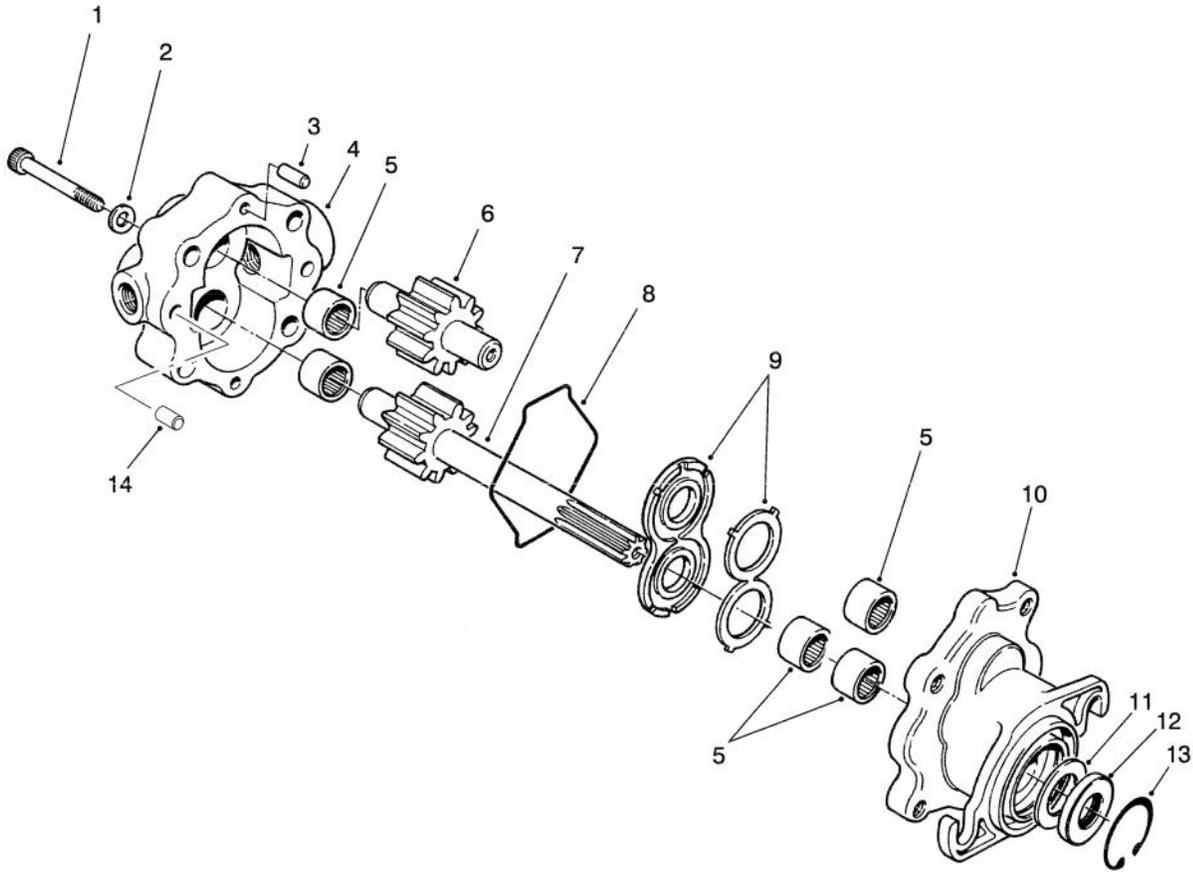


T-1297B

## REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-3810	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1
2	63-3820	Hydraulic Hose Assembly (Incl. Ref. #21 & 24)	1
3	237-30	Seal - O-Ring	5
4	63-4040	Hydraulic Tube Assembly (Incl. Ref. #3)	1
5	63-3840	Hydraulic Hose Assembly (Incl. Ref. #22 & 24)	1
7	237-79	Seal - O-Ring	3
8	94-3506	Reel Motor Assembly	3
9	237-42	Seal - O-Ring	3
10	340-77	Fitting - Hydraulic 90° (Incl. Ref. #9 & 11)	2
11	237-22	Seal - O-Ring	5
12	74-3830	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1

Ref. No.	Part No.	Description	No. Used
13	63-3830	Hydraulic Hose Assembly (Incl. Ref. #20 & 24)	1
14	340-98	Fitting - Hydraulic 90° (Incl. Ref. #3 & 7)	3
15	340-87	Fitting - Hydraulic 45° (Incl. Ref. #9 & 11)	1
16	63-3870	Hydraulic Hose Assembly (Incl. Ref. #19 & 23)	1
17	63-4020	Tube - Hydraulic	1
18	63-4030	Tube - Hydraulic	1
19	56-7986	Sleeve - Protective	1
20	56-7987	Sleeve - Protective	1
21	56-7980	Sleeve - Protective	3
22	56-7981	Sleeve - Protective	1
23	93-9346	Clamp - Pressure Hose	6
24	93-9347	Clamp - Return Hose	6



T-1872

## REEL MOTOR NO. 94-3506

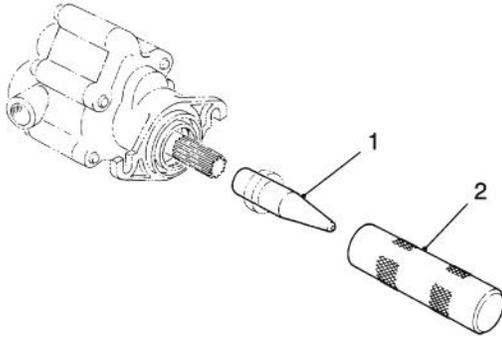
Ref. No.	Part No.	Description	No. Used
1	354-50	Screw - Hex Socket Hd.	4
2	354-51	Washer	4
3	353-599	Pin - Dowel	2
4	94-3507	Cover Assembly (Incl. Ref. #5)	1
5		Bearing - Needle	5
6	94-3509	Idler Gear Assembly	1
7	94-3508	Drive Shaft Assembly	1
8	354-46	Ring - Seal	1

Ref. No.	Part No.	Description	No. Used
9	74-3810	Load Plate Assembly	1
10	92-8795	Body Assembly (Incl. Ref. #5)	1
11		Spacer	1
12		Seal - Shaft	1
13	32151-41	Ring - Retaining	1
14	92-8796	Pin - Dowel	2
*	92-8863	Repair Kit (Incl. Ref. #8 & 11-13)	1

\*Not Illustrated

# SPECIAL TOOLS

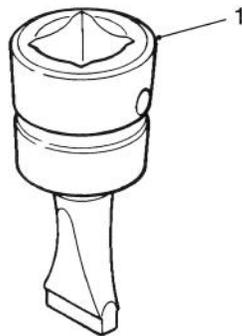
## REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

Ref. No.	Part No.	Description	No. Used
1	TOR491430	Protector – Seal	1
2	TOR491450	Installer – Seal	1

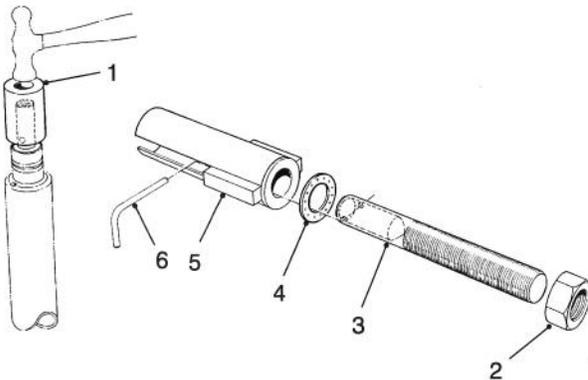
## BED KNIFE SCREW TOOL NO. TOR510880



T-0729

Ref. No.	Part No.	Description	No. Used
1		Tool – Bed Knife Screw	1

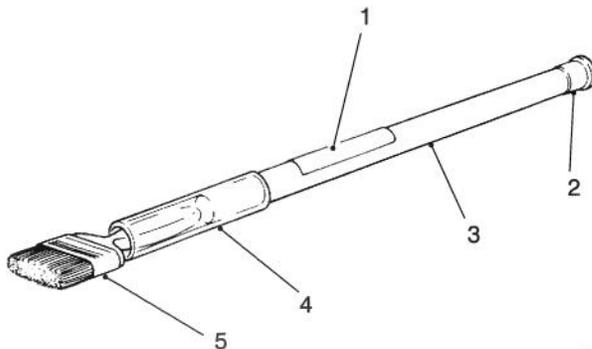
## BEARING REPLACEMENT TOOL KIT NO. TOR238900



T-0730

Ref. No.	Part No.	Description	No. Used
1	23-8880	Driver – Bearing	2
2	3219-18	Nut – Hex.	1
3	23-8840	Puller – Bolt	1
4	22-6090	Washer – Thrust	1
5	23-8850	Tube – Support	1
6	23-8860	Pin – Bearing Rplcmnt.	1

## BACKLAPPING BRUSH ASSEMBLY NO. 29-9100



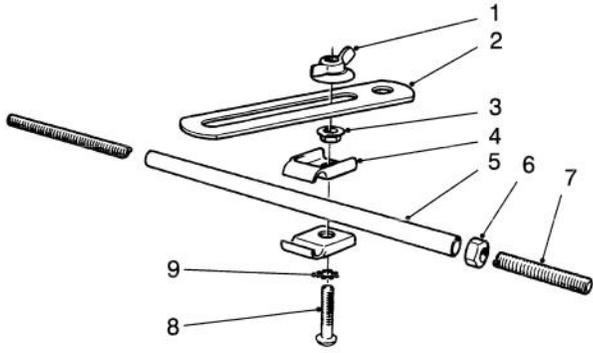
T-0731

Ref. No.	Part No.	Description	No. Used
1	12-9140	Decal	1
2	2410-18	Plug	1
3	29-9080	Handle	1
4	29-9090	Hose – Handle	1
5	36-4310	Brush	1

Note: Special tools may be ordered from: Owatonna Tool Company 2013 4th St. NW Owatonna, MN 55060

# SPECIAL TOOLS (Continued)

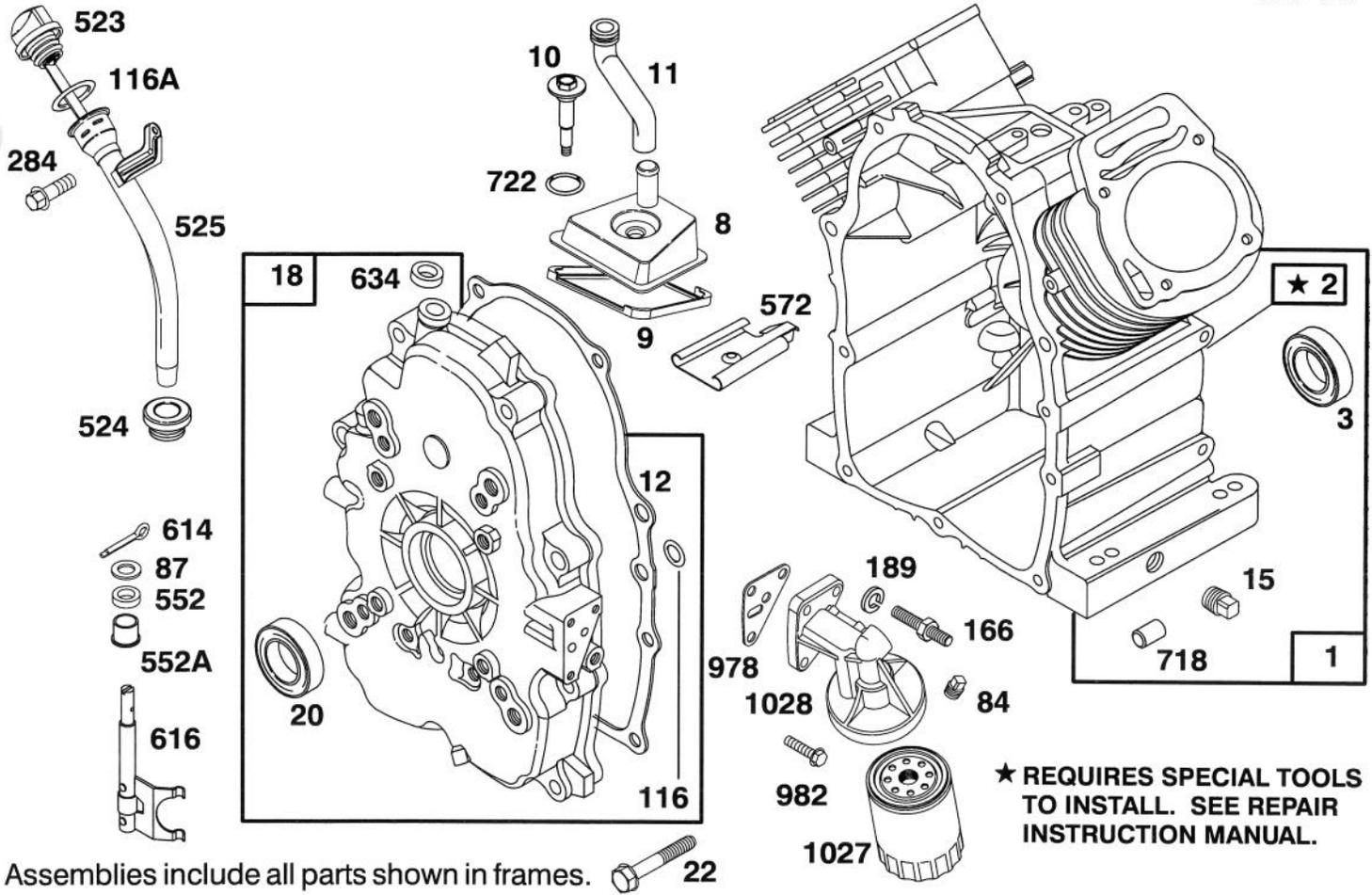
## ALIGNMENT TOOL NO. TOR200120



T-0732

Ref. No.	Part No.	Description	No. Used
1	3-4808	Nut - Wing	1
2	20-0110	Bracket - Alignment	1
3	32128-20	Nut - Lock, Flange	1
4	3-6657	Clip - Skid	2
5	20-0070	Tube	1
6	3219-2	Nut - Hex.	1
7	20-0080	Rod	1
8	32122-35	Screw - Truss Head	1
9	3255-8	Washer - Lock, Int. Tooth	1

**Note: Special tools may be ordered from: Owatonna Tool Company  
2013 4th St. NW  
Owatonna, MN 55060**

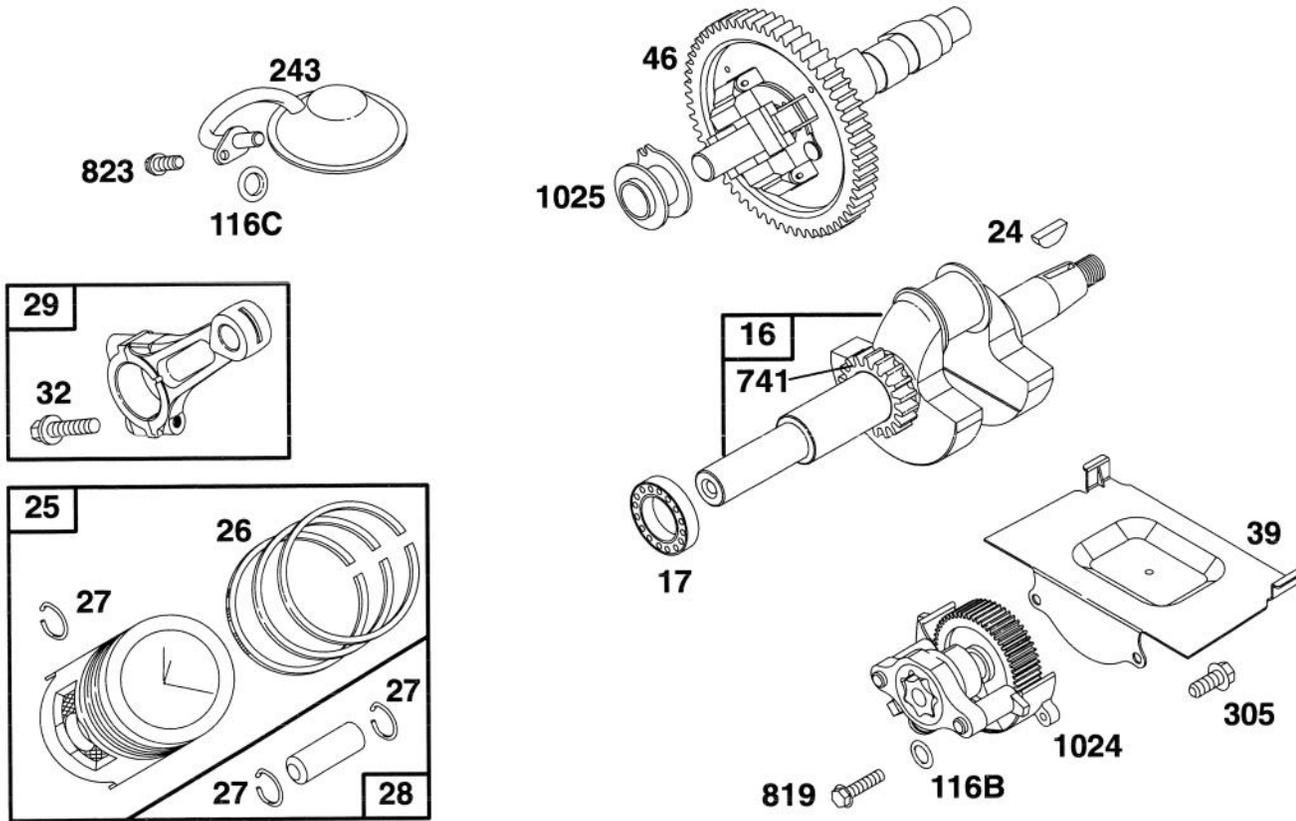


## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
1	807521	Cylinder Assembly	
2	807687	Bearing - Cylinder	
*3	805101	Seal - Oil	
8	807795	Breather Assembly	
*9	805379	Gasket - Breather	
10	805751	Screw - Hex. Washer Head	
11	805362	Tube - Breather	
*12	805112	Gasket - Crankcase Cover	
15	805048	Plug - Oil Drain	
18	807628	Cover Assy. - Crankcase	
*20	805049	Seal - Oil	
22	805696	Screw - Crankcase Cover	
84	91488	Plug - Pipe	
*87	805054	Seal - Governor Shaft	
*116	805198	O-Ring (Crankcase Cover)	
*116A	805386	O Ring (Dipstick)	
166	805073	Stud - Oil Filter Adapter	
284	805247	Screw - Hex. Head	

Ref. No.	Part No.	Description	No. Used
189	805449	Lockwasher	
523	807977	Dipstick	
*524	281370	Seal - Fill Tube	
525	807584	Tube - Oil Fill	
552	805412	Bushing - Governor Shaft	
552A	805413	Bushing - Governor Shaft	
572	805197	Baffle - Breather	
614	806096	Pin - Cotter	
616	807596	Fork - Governor	
634	805416	Washer - Governor Shaft	
718	805103	Dowel - Crankcase	
*722	807688	Seal - Breather Screw	
*978	805250	Gasket - Oil Filter Adapter	
982	805030	Screw	
1027	492932	Filter - Oil	
1028	808325	Adapter - Oil Filter	
1058	272105	Owner's Manual	

\*Included in Gasket Set - Part No. 807989.



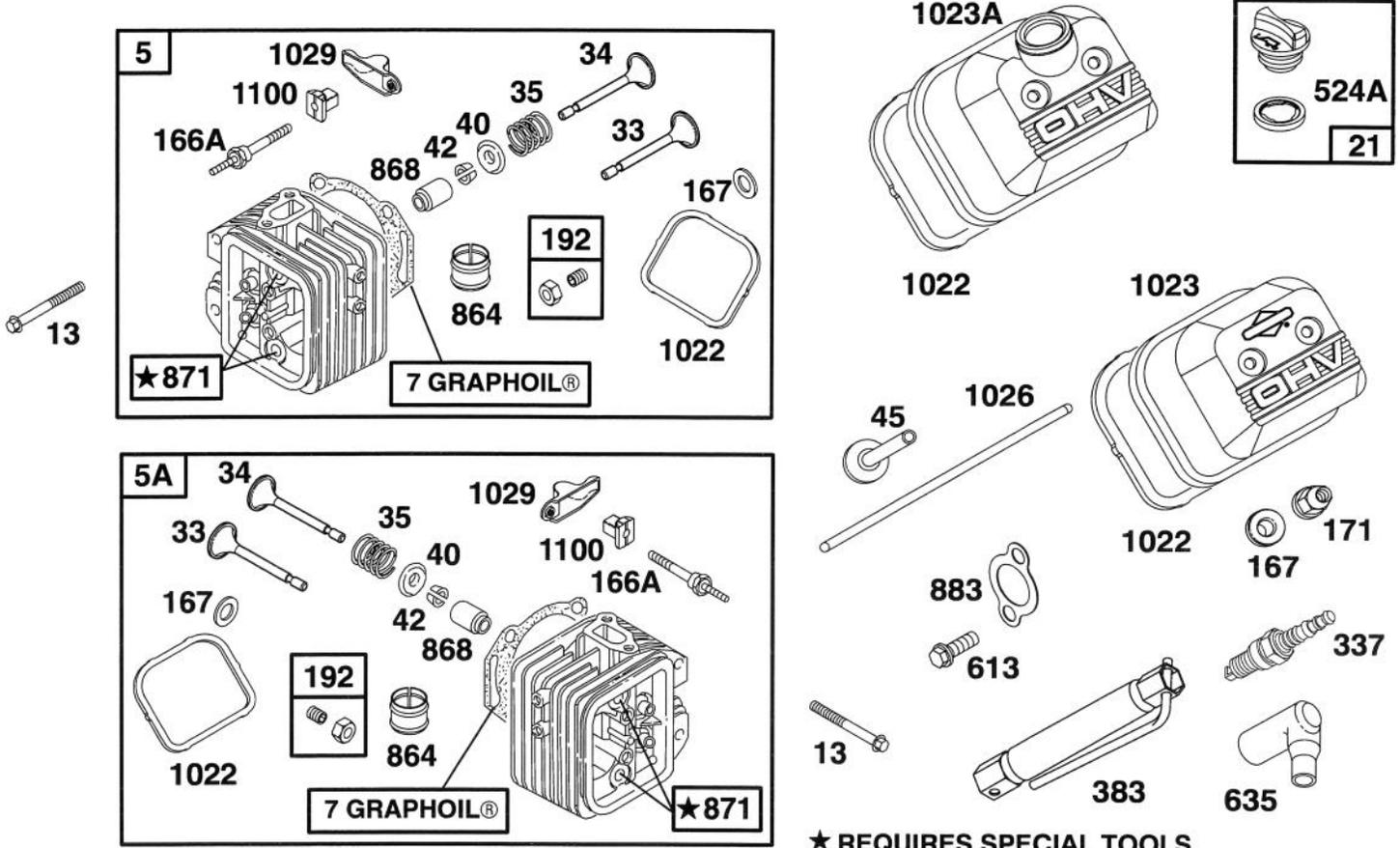
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft <b>Note:</b> To Replace Crankshaft Timing Gear Key Order Part No. 94196. 807625 Washers – Thrust	
17	805754	Bearing – Ball	
24	805016	Key – Flywheel	
25	807619	Piston Assembly (Standard)	
	807807	Piston Assembly (.010 O.S.)	
	807809	Piston Assembly (.020 O.S.)	
	807811	Piston Assembly (.030 O.S.)	
26	807620	Ring Set – Piston (Standard)	
	807808	Ring Set – Piston (.010 O.S.)	
	807810	Ring Set – Piston (.020 O.S.)	
	807812	Ring Set – Piston (.030 O.S.)	

Ref. No.	Part No.	Description	No. Used
27	805099	Lock – Piston Pin	
28	807621	Piston Pin Assembly	
29	807900	Connecting Rod Assembly	
32	805395	Screw – Connecting Rod	
39	805654	Deflector – Oil	
46	807542	Gear – Cam	
*116B	805058	O-Ring (Oil Pump)	
*116C	805316	O-Ring (Pick – Up Tube)	
243	807598	Screen – Oil Pump Pick-Up	
305	805406	Screw	
741	805984	Gear – Timing	
819	805057	Screw	
823	805317	Screw – Mounting	
1024	807644	Oil Pump Assembly	
1025	805313	Slider – Governor	

\*Included in Gasket Set – Part No. 807989.



Assemblies include all parts shown in frames.

★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

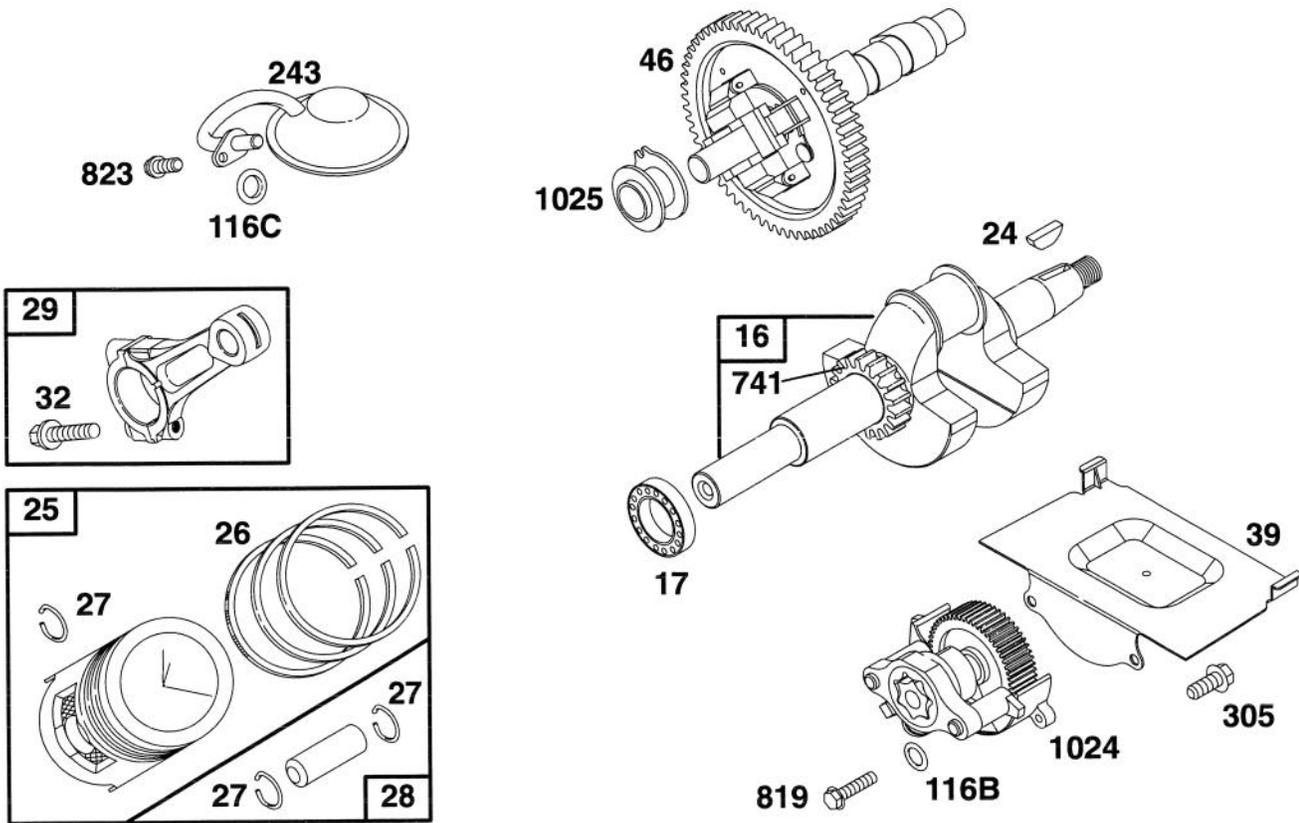
## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
5	808381	Head - Cylinder (Cyl. #1)	
5A	808382	Head - Cylinder (Cyl. #2)	
*‡7	806085	Gasket - Cylinder Head	
13	805097	Screw - Cylinder Head	
21	491832	Plug - Oil Filler	
33	807681	Valve - Exhaust	
34	807680	Valve - Intake	
35	805937	Spring - Valve	
40	805092	Retainer - Valve Spring	
42	807683	Retainer - Valve	
45	262679	Tappet - Valve	
166A	806037	Stud - Rocker Arm	
*‡167	805420	Washer - Valve Cover	
‡171	805019	Nut - Nylock	
192	807623	Screw - Valve Adjustment	
337	496018	Plug - Spark	

Ref. No.	Part No.	Description	No. Used
383	19374	Wrench - Spark Plug	
*‡524A	271983	Seal - Filler Plug	
613	805158	Screw - Hex.	
635	805529	Elbow - Spark Plug	
864	805083	Liner - Exhaust Port	
868	805094	Seal - Valve Guide	
871	805084	Guide - Valve	
*‡883	805024	Gasket - Exhaust Manifold	
*‡1022	806039	Gasket - Valve Cover	
1023	805100	Cover - Valve	
1023A	808032	Cover - Valve	
1026	805352	Rod - Push (Intake Valve)	
		<b>Note:</b> 805617 Rod - Push (Exhaust Valve)	
1029	806036	Arm - Rocker	

\*Included in Gasket Set - Part No. 807989.

‡Included in Valve Overhaul Kit - Part No. 807990.



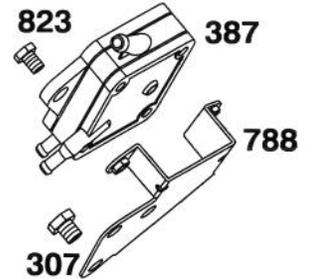
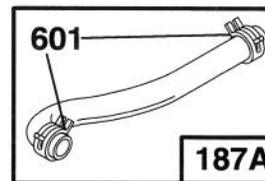
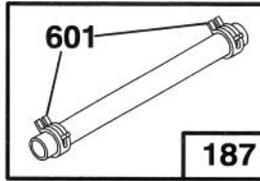
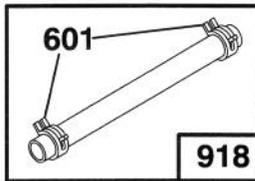
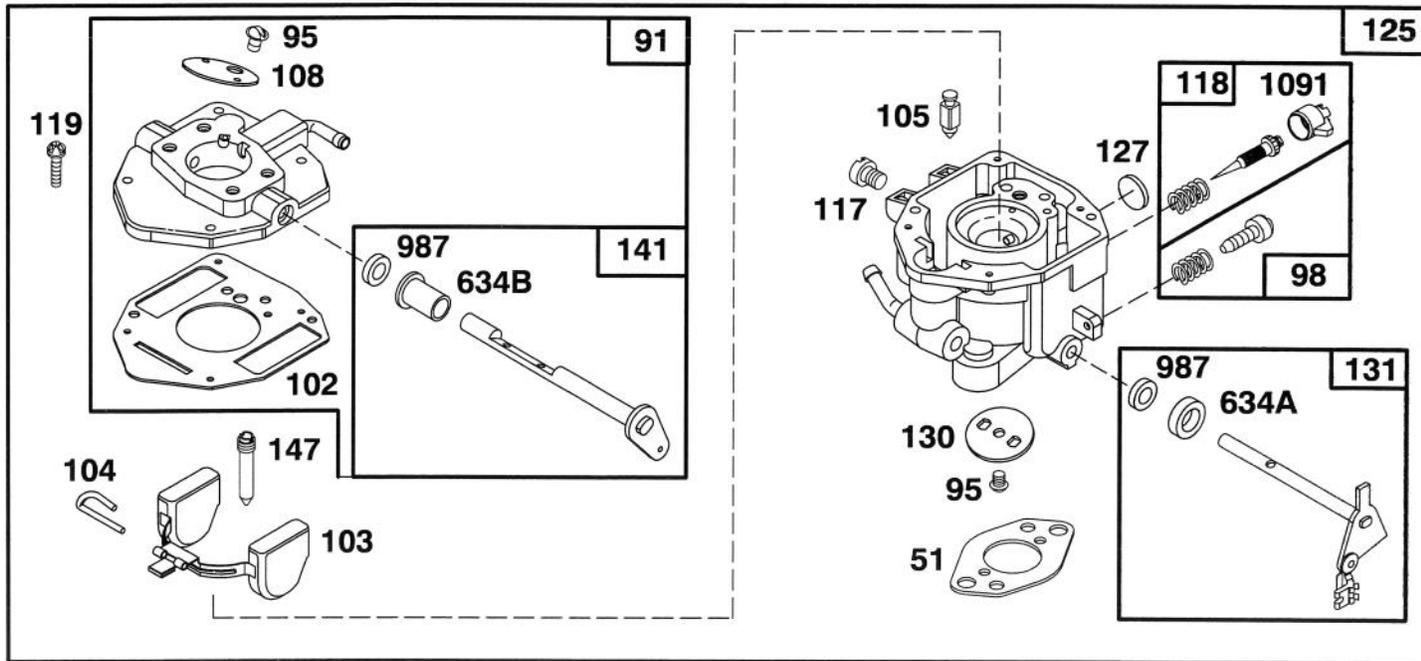
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft <b>Note:</b> To Replace Crankshaft Timing Gear Key Order Part No. 94196. 807625 Washers - Thrust	
17	805754	Bearing - Ball	
24	805016	Key - Flywheel	
25	807619	Piston Assembly (Standard)	
	807807	Piston Assembly (.010 O.S.)	
	807809	Piston Assembly (.020 O.S.)	
	807811	Piston Assembly (.030 O.S.)	
26	807620	Ring Set - Piston (Standard)	
	807808	Ring Set - Piston (.010 O.S.)	
	807810	Ring Set - Piston (.020 O.S.)	
	807812	Ring Set - Piston (.030 O.S.)	

Ref. No.	Part No.	Description	No. Used
27	805099	Lock - Piston Pin	
28	807621	Piston Pin Assembly	
29	807900	Connecting Rod Assembly	
32	805395	Screw - Connecting Rod	
39	805654	Deflector - Oil	
46	807542	Gear - Cam	
*116B	805058	O-Ring (Oil Pump)	
*116C	805316	O-Ring (Pick - Up Tube)	
243	807598	Screen - Oil Pump Pick-Up	
305	805025	Screw	
741	805984	Gear - Timing	
819	805057	Screw	
823	805317	Screw - Mounting	
1024	807644	Oil Pump Assembly	
1025	805313	Slider - Governor	

\*Included in Gasket Set - Part No. 807989.



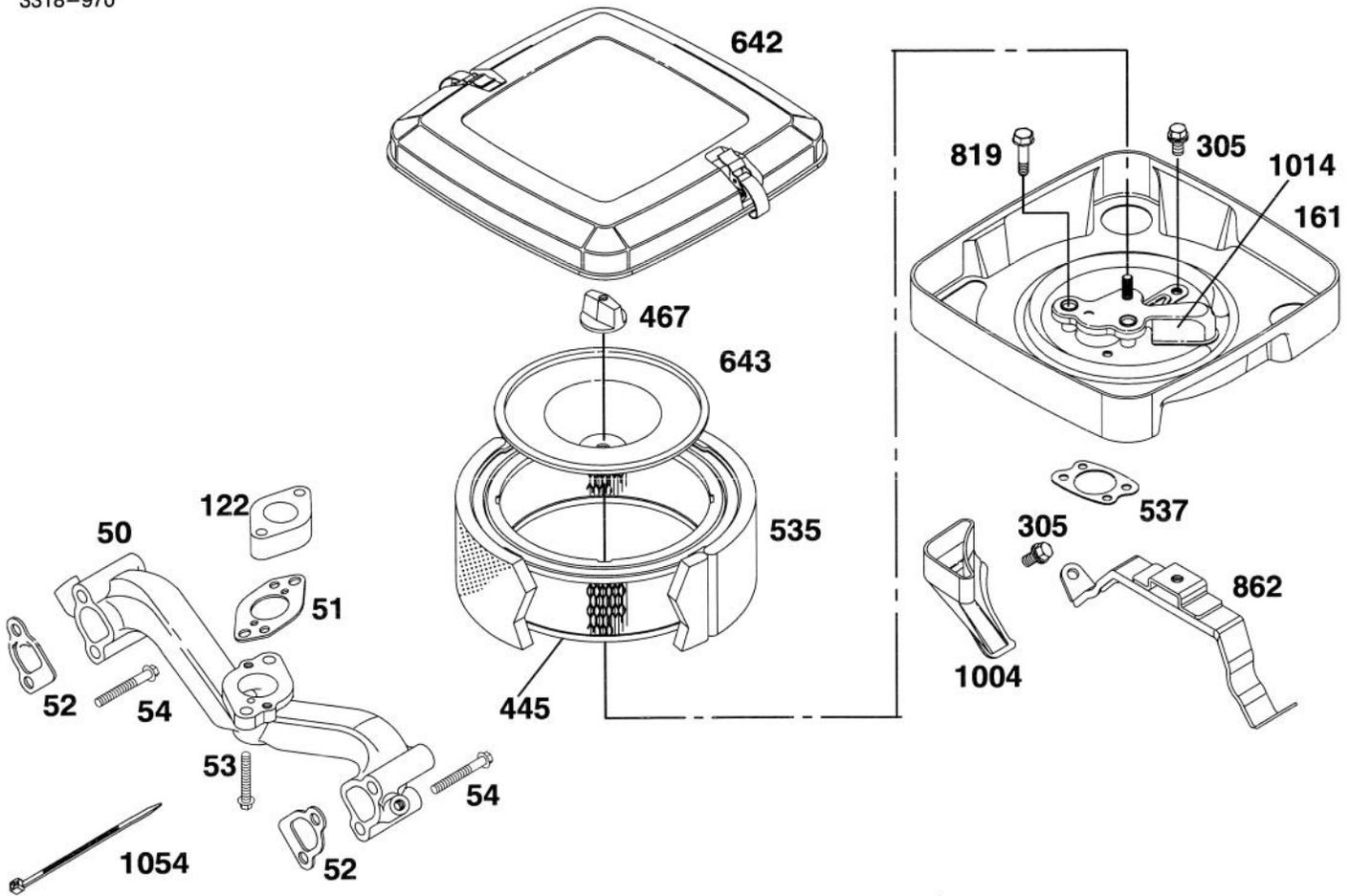
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
*51	805700	Gasket - Carburetor Mtg.	
91	807919	Body - Upper Carburetor	
95	805538	Screw - Valve Mtg.	
98	808177	Screw - Throttle Adj.	
†102	805541	Gasket - Carburetor Body	
103	805546	Float Assembly	
†104	805545	Pin - Float Hinge	
†105	805547	Valve - Fuel Inlet	
108	805539	Valve - Choke	
117	805852	Jet - Main	
	805537	Jet - Main (High Altitude)	
118	808293	Valve - Idle Adjust	
119	805540	Screw - Upper Body Mtg.	
125	808251	Carburetor Assembly	
†127	805559	Plug - Welch	
130	805554	Valve - Throttle	
131	807720	Shaft - Throttle	

Ref. No.	Part No.	Description	No. Used
141	807722	Shaft - Choke	
†147	805553	Jet - Slow Speed	
187	296004	Line - Fuel (Cut to Required Length)	
187A	398367	Line - Fuel	
307	805025	Screw - Hex. Hd.	
387	491922	Pump - Fuel	
601	93053	Clamp - Hose	
†634A	805557	Collar - Throttle	
†634B	805543	Collar - Choke	
788	807685	Bracket - Fuel Pump	
823	805317	Screw - Mounting	
918	393815	Line - Vacuum (Cut to Required Length)	
947	807664	Solenoid	
†987	805544	Seal - Shaft	
1091	805862	Cap - Limiter	

†Included in Carburetor Kit - Part No. 807726.

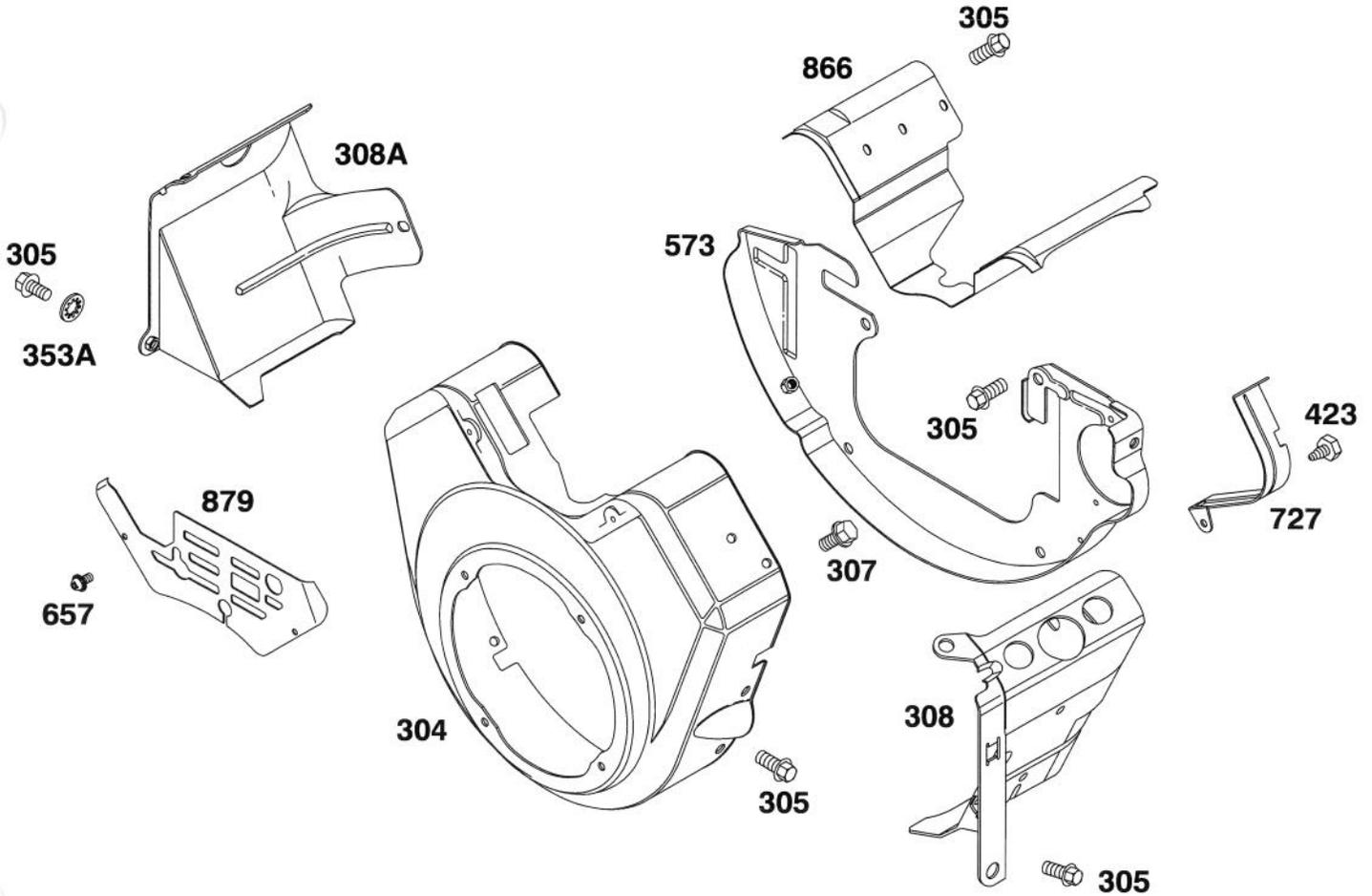


## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
50	805772	Manifold – Intake	
*51	805700	Gasket – Carburetor Mtg.	
*‡52	805023	Gasket – Intake Manifold	
53	805466	Screw	
54	805006	Screw	
122	805328	Spacer – Carburetor	
161	807857	Base – Air Cleaner	
305	805025	Screw – Sem	
445	394018	Filter – Air	

Ref. No.	Part No.	Description	No. Used
467	491875	Knob – Air Cleaner	
535	272490	Filter – Air	
*537	805655	Gasket – Air Cleaner	
642	807862	Cover – Air Cleaner	
643	805631	Plate – Air Cleaner	
819	805057	Screw – Hex. Hd.	
862	807796	Bracket – Air Cleaner	
1004	805632	Strap – Cleaner Mounting	
1014	807797	Shield – Carburetor	

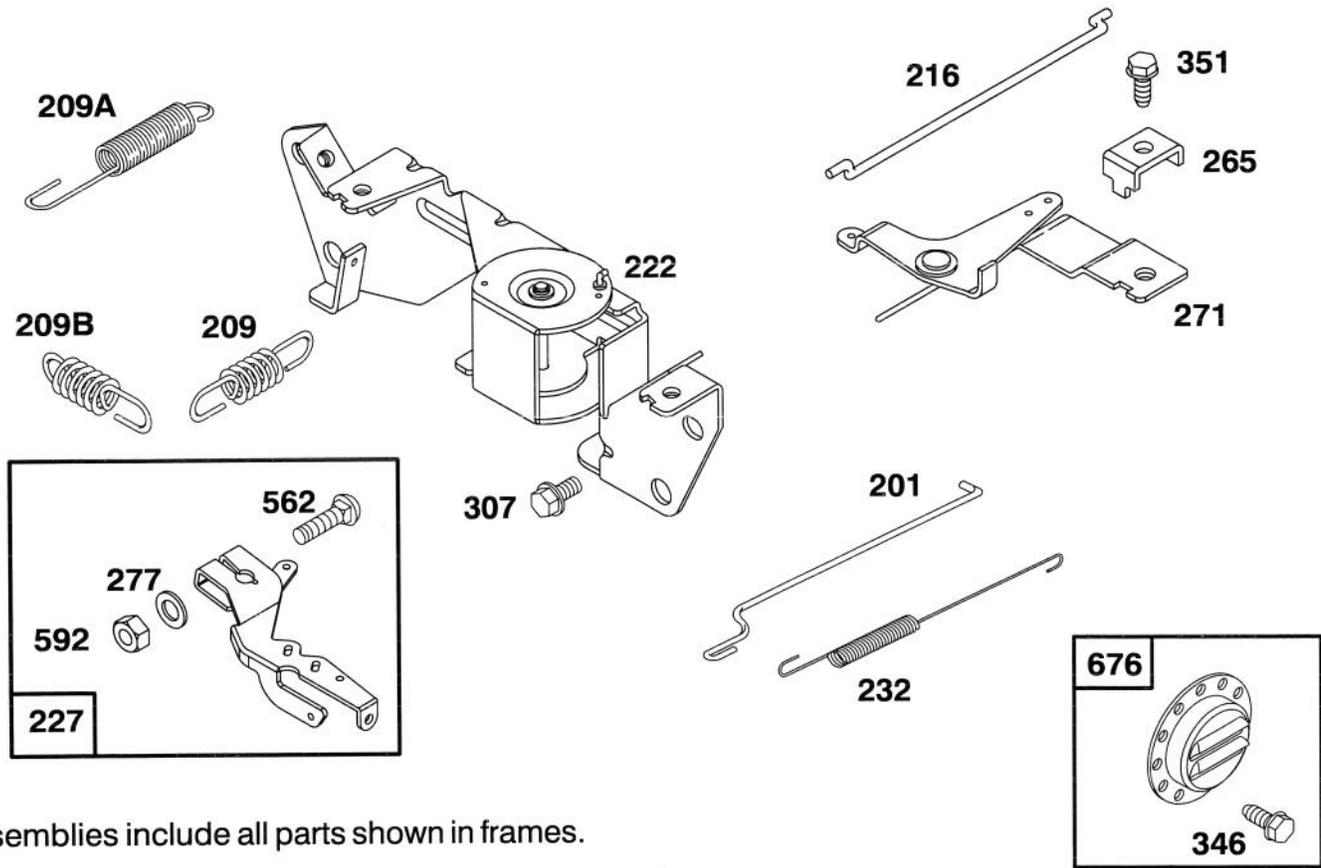
\*Included in Gasket Set – Part No. 807989.



**ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1**

Ref. No.	Part No.	Description	No. Used
304	807898	Housing – Blower	
305	805406	Screw – Hex. Head	
307	805025	Screw – Hex. Head	
308	808309	Cover – Air Guide (Cyl. #1)	
308A	808098	Cover – Air Guide (Cyl. #2)	
353A	806101	Washer – Lock	

Ref. No.	Part No.	Description	No. Used
373	805383	Nut – Hex.	
423	805260	Screw – Hex. Head	
573	807663	Back Plate Assembly	
657	805009	Screw – Hex. Head	
727	805505	Shield – Starter	
866	805738	Valley Cover – Air Guide	
879	805841	Cover – Carburetor	

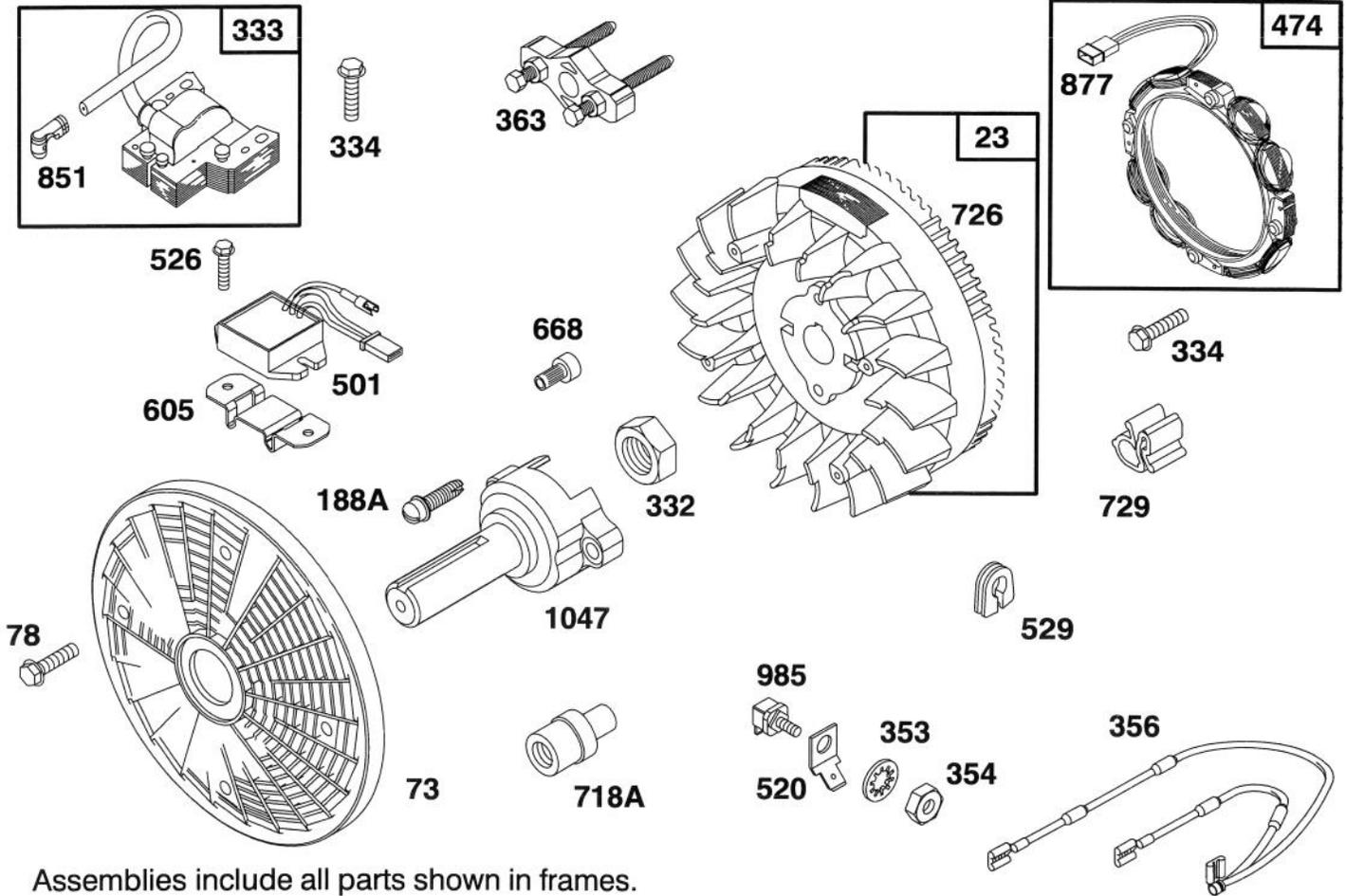


Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
201	805480	Link - Governor	
209	805464	Spring - Governor	
209A	805450	Spring - Governed Idle	
209B	806105	Spring - Governor	
216	805439	Link - Choke	
222	808195	Bracket - Governor Control	
227	807528	Lever Assembly - Governor	
232	805465	Spring - Governor Link	
265	221535	Clamp - Casing	

Ref. No.	Part No.	Description	No. Used
271	808145	Bracket - Choke Control	
277	805018	Washer	
307	805025	Screw - Hex. Head	
346	94896	Screw - Hex. Head	
351	805169	Screw - Hex. Head	
562	805381	Bolt - Carriage	
592	805383	Nut - Hex.	
676	397630	Deflector - Muffler	



Assemblies include all parts shown in frames.

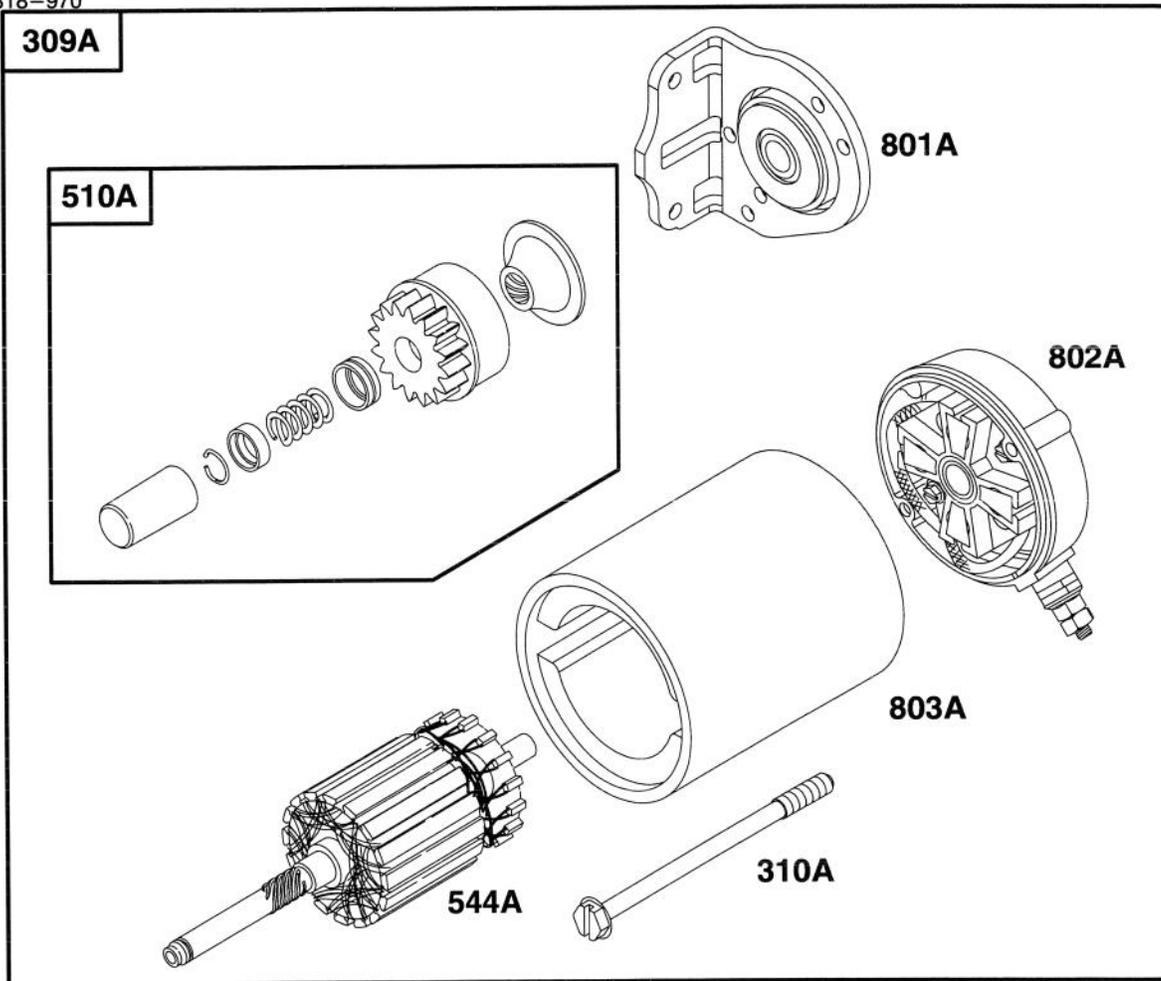
## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
23	808128	Flywheel - Magneto	
73	805723	Screen - Rotating	
78	805447	Screw - Hex. Hd.	
188A	93847	Screw - Hex. Hd.	
332	806028	Nut - Hex.	
333	492341	Armature - Magneto	
334	805407	Screw - Hex. Hd.	
353	92791	Washer - Lock (Internal Tooth)	
354	90576	Nut - Hex.	
356	493792	Wire - Assy.	
363	19203	Puller - Flywheel	
474	393295	Stator - Alternator	
501	394890	Regulator - Alternator	

Ref. No.	Part No.	Description	No. Used
520	93722	Terminal - Spade	
526	805448	Screw - Hex. Hd.	
529	805641	Grommet	
605	222934	Bracket - Regulator	
668	805402	Spacer	
718A	805613	Pin - Pilot	
726	808162	Gear - Flywheel Ring Includes Mounting Hardware.	
729	280470	Clip - Wire	
851	493880	Terminal - Ignition Cable	
877	393537	Wire - Alternator	
985	398525	Insulator	
1047	262949	Shaft - Stub	

309A

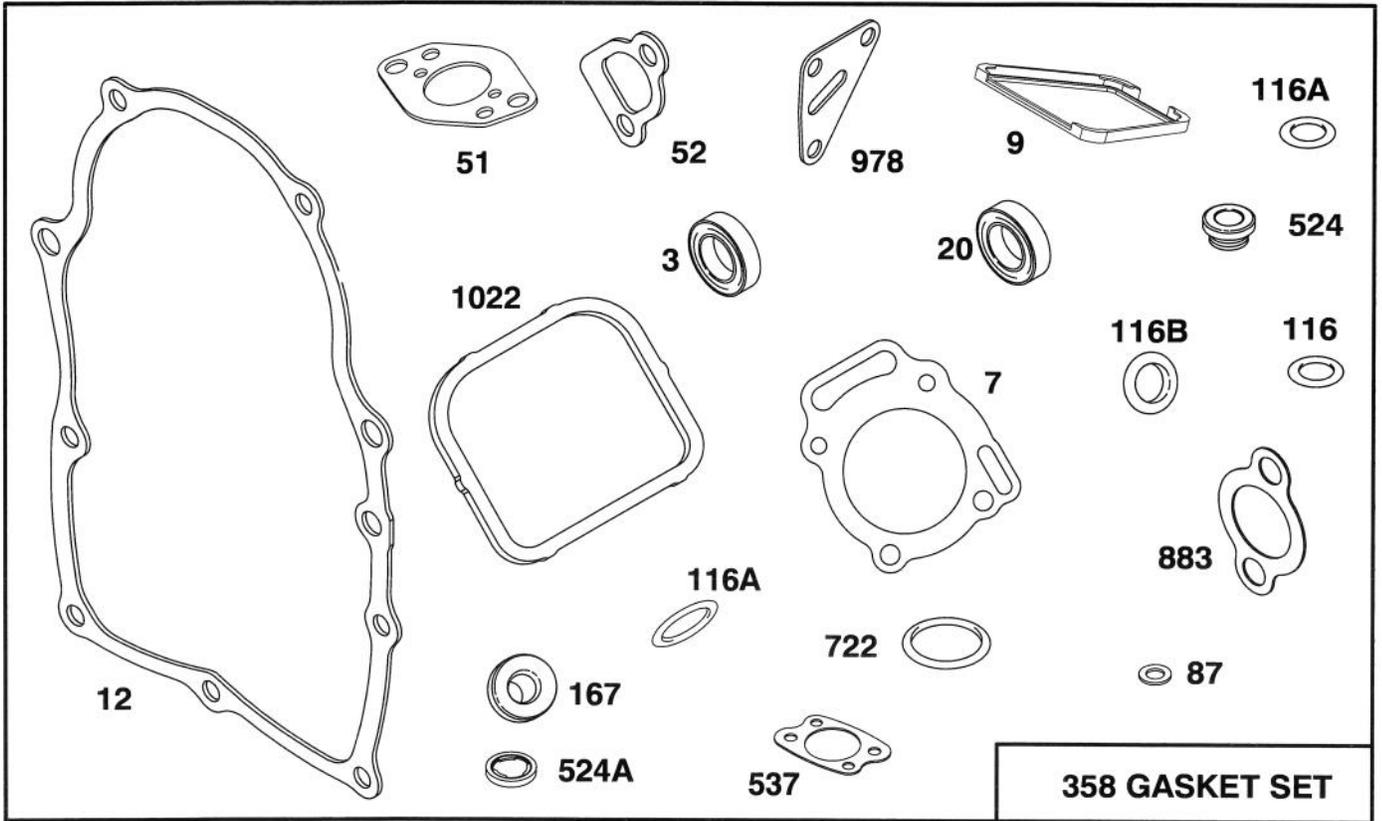
510A



## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
188	805247	Screw-Hex. Head	
309A	808106	Motor-Starter	
310A	496880	Bolt-Thru	
510A	496881	Drive-Starter	
544A	496816	Armature-Starter	

Ref. No.	Part No.	Description	No. Used
801A	496814	Cap-Drive	
802A	496813	Cap-End <b>Note:</b> Includes 496887	
803A	496815	Brush Set. Housing-Starter	



Assemblies include all parts shown in frames.

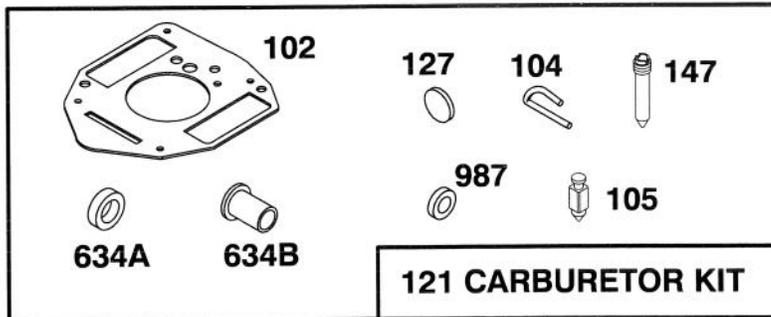
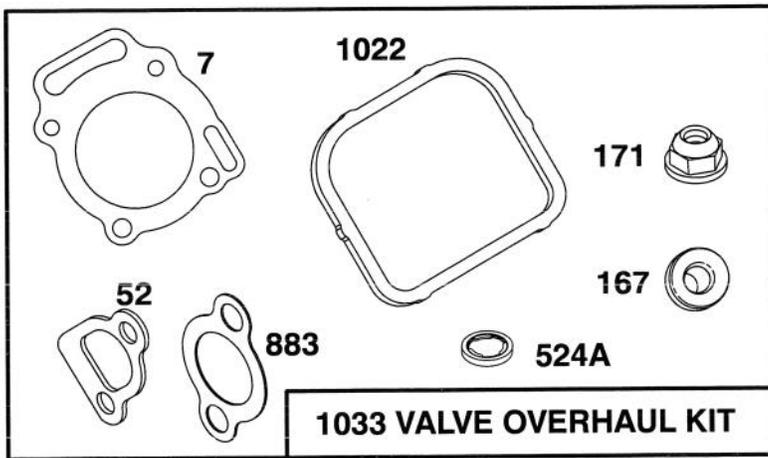
## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
*3	805101	Seal - Oil	
*‡7	807986	Gasket - Cylinder Head	
*9	805379	Gasket - Breather	
*12	805112	Gasket - Crankcase Cover	
*20	805049	Seal - Oil	
*51	805700	Gasket - Carburetor Mtg.	
‡*52	805023	Gasket - Intake Manifold	
*87	805054	Seal - Governor Shaft	
*116	805198	O-Ring (Crankcase Cover)	
*116A	805386	O-Ring (Dipstick)	
*116B	805058	O-Ring (Oil Pump)	

Ref. No.	Part No.	Description	No. Used
*116C	805316	O-Ring (Pick - Up Tube)	
*‡167	805420	Washer - Valve Cover	
358	807989	Gasket Set	
*524	281370	Seal - Fill Tube	
*‡524A	271983	Seal - Filler Plug	
*537	805655	Gasket - Air Cleaner	
*722	807688	Seal - Breather Screw	
*883	805024	Gasket - Exhaust Manifold	
*978	805250	Gasket - Oil Filter Adapter	
*‡1022	806039	Gasket - Valve Cover	

\*Included in Gasket Set - Part No. 807989.

‡Included in Valve Overhaul Kit - Part No 807990.



Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
*‡7	807986	Gasket - Cylinder Head	
*9	805379	Gasket - Breather	
*‡52	805023	Gasket - Intake Manifold	
†102	805541	Gasket - Carburetor Body	
†104	805545	Pin - Float Hinge	
†105	805547	Valve - Fuel Inlet	
121	807726	Carburetor Kit	
†127	805559	Plug - Welch	
†147	805553	Jet - Slow Speed	
*‡167	805420	Washer - Valve Cover	

Ref. No.	Part No.	Description	No. Used
‡171	805019	Nut - Nylock	
*‡524A	271983	Seal - Filler Plug	
†634A	805557	Collar - Throttle	
†634B	805543	Collar - Choke	
*722	805483	Seal - Breather Screw	
*‡883	805024	Gasket - Exhaust Manifold	
†987	805544	Seal - Shaft	
*‡1022	806039	Gasket - Valve Cover	
1033	807990	Overhaul Kit - Valve	
1036	807688	Gasket Set - Breather	

\*Included in Gasket Set - Part No. 807989.

†Included in Carburetor Kit - Part No. 807726.

‡Included in Valve Overhaul Kit - Part No. 807990.

# TORO PART NUMBER INDEX

3318-970

Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
493963	Muffler	26	19	1	27-6600	Spacer - Coupling	27	15	4
3-0348	Bushing - Sleeve	3	11	6	28-1400	Battery	20	11	1
3-0348	Bushing - Sleeve	4	14	6	28-3680	Tire	8	2	2
3-0348	Bushing - Sleeve	6	22	6	28-3680	Tire	29	9	1
3-1506	Bushing	1	24	2	28-4210	Solenoid - Starter	20	5	1
3-1506	Bushing - Flange	3	16	4	28-8080	Boot Terminal	20	13	1
3-1506	Bushing - Flange	4	30	4	29-9080	Handle	33	3	1
3-1506	Bushing - Flange	6	38	4	29-9090	Hose - Handle	33	4	1
3-4808	Nut - Wing	34	1	1	36-4310	Brush	33	5	1
3-6657	Clip - Skid	34	4	2	37-8130	Basket - Grass	2	*	3
3-6685	Spring - Compression	19	17	1	38-0410	Nut - Hex.	14	53	1
5-0946	Key - Square	27	12	1	38-0410	Nut - Hex.	16	59	1
5-0946	Key - Square	28	16	1	42-2680	Race R. Detent	13	46	1
5-1226	Washer - Shim	3	10	2	43-2830	Nut - Hex	26	33	1
5-1226	Washer - Shim	4	16	2	43-5220	Ring - Retaining	7	10	1
5-1226	Washer - Shim	6	24	2	43-5230	Shaft & Clevis	7	11	1
5-3934	Bolt - Castor	29	20	1	43-5930	Washer - Lock	26	25	2
10-6060	Pin - Lift Cylinder	3	7	1	43-8600	Spring - Compression	19	21	1
10-6060	Pin - Pivot	4	19	1	43-8610	Seat - Ball	19	20	1
10-6090	Pin - Pivot	4	33	1	43-8620	Guide - Switch	19	23	1
10-6090	Pin - Pivot	3	37	1	43-8860	Plunger - Switch	19	22	1
10-6090	Pin - Pivot	6	41	1	43-8870	Boot - Switch	19	26	1
10-6110	Pin - Hinge	3	3	1	43-9071	Seat Switch Assembly	19	*	1
10-6110	Pin - Pivot	4	24	1	44-0870	Shaft - Cam	10	5	1
10-6821	Brake Drum Assembly	8	*	2	44-2230	Coupling - Rubber	27	16	1
10-6830	Stud - Drive	29	17	4	44-5560	Head - Oil Filter	20	27	1
10-6850	Drum - Brake	8	6	2	46-8560	Screw - Self Taping	20	20	3
10-6870	Hub - Wheel	8	5	2	47-2890	Bushing - Sleeve	17	20	2
10-7070	Key - Square	27	20	1	47-5320	Lever - Control	10	40	1
10-7820	Pivot Hinge Assembly	3	12	1	47-6990	Nut - Steering Wheel	17	10	1
10-7820	Pivot Hinge Assembly	4	25	1	48-7610	Screw - Cap Hex. Hd.	24	9	1
10-7820	Pivot Hinge Assembly	6	33	1	48-7620	Screw - Cap Hex. Hd.	26	36	1
10-7850	Latch - Parking Brake	1	23	1	49-5430	Rod - Control	10	1	1
10-8100	Strap - Brake Shaft	1	31	2	49-5430	Rod - Control	1	4	1
10-8110	Washer - Thrust	3	9	6	49-5880	Shaft - Seat Support	19	27	1
10-8110	Washer - Thrust	4	15	6	49-6110	Guard - Transfer Rod	1	6	1
10-8110	Washer - Thrust	6	23	6	49-6120	Pad - Footrest	1	13	1
10-8140	Spring - Torsion	1	7	1	49-6200	Lever - Cutting Control	2	42	1
11-0160	Roller Shaft Screw Assy.	3	14	2	49-6220	Bracket - Control Arm	10	9	1
11-0160	Roller Shaft Screw Assy.	4	28	2	49-6250	Bracket - Traction Pivot	10	35	1
11-0160	Roller Shaft Screw Assy.	6	36	2	49-6260	Assy. - Pivot, Traction	10	21	1
12-3270	Screw - Hex. Washer Hd.	26	17	4	49-6290	Shaft - Traction Pivot	10	37	1
12-3270	Screw - Hex. Washer Hd.	10	38	1	49-6440	Pedal - Forward	10	42	1
12-3270	Screw - Thread Forming	12	50	1	51-0350	Pin - Seat Spring	19	16	1
12-9140	Decal	33	1	1	51-0780	Slider - Seat	19	31	1
17-9420	Screw - Traction Stop	10	34	1	51-0790	Adjuster - Seat	19	6	1
18-6320	Washer - Steering	29	7	4	52-1990	Piston	5	3	1
20-0070	Tube	34	5	1	52-2720	Roller Assembly	3	20	1
20-0080	Rod	34	7	1	52-2720	Roller Assembly	4	35	1
20-0110	Bracket - Alignment	34	2	1	52-2720	Roller Assembly	6	43	1
21-8470	Shaft - Roller	3	21	1	52-5860	Collar - Spool	16	51	1
21-8470	Shaft - Roller	4	36	1	52-5880	Ball - Steel	13	47	12
21-8470	Shaft - Roller	6	44	1	52-5900	Screw - Fillister Hd.	15	37	4
22-6090	Washer - Thrust	33	4	1	52-9230	Ring - Retaining	18	2	1
23-8840	Puller - Bolt	33	3	1	52-9260	Screw - Set	18	26	1
23-8850	Tube - Support	33	5	1	52-9270	Seat - Ball Check	18	24	1
23-8860	Pin - Bearing Rplcmnt.	33	6	1	52-9280	Ball - Check	18	22	1
23-8880	Driver - Bearing	33	1	2	52-9290	Retainer - Ball Check	18	21	1
26-3790	Nut - Lock	8	4	2	56-2230	Hose - Fuel	24	17	1
27-1960	Hub - Engine	27	21	1	56-7720	Bolt - Battery	20	17	2
27-1970	Hub - Pump	27	22	1	56-7970	Clamp Half - Tube	2	45	2
27-2270	Rod - Brake Adjusting	1	29	2	56-7980	Sleeve - Protective	31	21	3
27-2320	Bearing - Flange	10	7	2	56-7981	Sleeve - Protective	31	22	1
27-2320	Bearing - Flange	2	33	2	56-7986	Sleeve - Protective	31	19	1
27-2380	Spacer	20	32	2	56-7987	Sleeve - Protective	31	20	1
27-2550	Pin - Pivot	6	27	1	57-6140	Clamp Half - Tube	8	20	2

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
57-6220	Link	10 17 5	72-4790	Hold-Down - Battery	20 16 1
57-7650	Spring - Torsion	4 11 1	74-0720	Tube - Manual	19 3 1
57-7650	Spring - Torsion	6 18 1	74-3570	Filter - Hydraulic Oil	20 29 1
57-7650	Spring - Torsion	3 32 1	74-3730	Spacer - Hub	29 11 2
58-6520	Decal - Grease	29 36 2	74-3810	Load Plate Assembly	32 9 1
59-6730	Race - Bearing	18 8 2	74-3830	Hose - Hydraulic	11 28 1
59-6740	Bearing - Needle Thrust	18 9 1	74-3830	Hydraulic Hose Assembly	31 12 1
59-6830	Centering Pin Kit	18 20 1	74-9100	Pad - Forward Pedal	10 25 1
61-3310	Plate - Logo	20 21 1	74-9110	Pad - Reverse Pedal	10 23 1
62-2420	Bar - Lift	6 8 1	75-0540	Tether - Cap	23 9 1
62-2440	Lift Arm Assembly	4 8 1	75-9440	Hub - Wheel	29 15 1
62-2460	Lift Arm Assembly L.H.	3 29 1	76-0410	Spring	2 54 1
63-3810	Hydraulic Hose Assembly	31 1 1	76-0800	Seal Kit	9 * 1
63-3820	Hydraulic Hose Assembly	31 2 1	76-0810	Housing Assembly	9 * 1
63-3830	Hydraulic Hose Assembly	31 13 1	76-0840	Manifold	9 22 1
63-3840	Hose - Hydraulic	11 36 1	76-0850	Bearing - Thrust	9 12 1
63-3840	Hydraulic Hose Assembly	31 5 1	76-0860	Shaft - Coupling	9 11 1
63-3850	Hose - Hydraulic	11 31 1	76-0870	Plate - Wear	9 18 1
63-3850	Hose - Hydraulic	3 39 1	76-0880	Commutator Assembly	9 * 1
63-3870	Hydraulic Hose Assembly	31 16 1	76-0940	End Cover Assembly	9 24 1
63-4020	Tube - Hydraulic	31 17 1	76-1850	Clevis	5 13 1
63-4020	Tube - Hydraulic	11 40 1	76-1860	Shaft	5 6 1
63-4030	Tube - Hydraulic	31 18 1	80-9330	Audio Alarm Assembly	21 25 1
63-4030	Tube - Hydraulic	11 41 1	83-0010	Engine Assembly	26 15 1
63-4040	Hydraulic Tube Assembly	31 4 1	83-0020	Ignition Switch Assembly	21 14 1
63-4040	Tube - Hydraulic	11 35 1	83-0030	Control - Throttle	21 12 1
63-4050	Fitting - Tee	11 42 2	83-0040	Control - Choke	21 13 1
63-8360	Key - Ignition	21 17 1	83-0060	Lift - Pivot	1 26 1
63-8410	Washer - Flat	24 4 4	83-0080	Spring - Torsion	1 25 1
63-8410	Washer - Flat	23 36 3	83-0140	Pedal - Mow	2 38 1
63-8750	Pin - Pivot	6 9 1	83-0160	Shaft - Brake	2 48 1
63-8750	Pin - Pivot	4 10 1	83-0190	Cover - R.H.	8 18 1
63-8750	Pin - Pivot	3 33 1	83-0200	Cover - L.H.	1 17 1
63-9920	Decal - EEC	20 43 1	83-0540	Pedal - Traction	10 24 1
65-4860	Head	5 9 1	83-0580	Rod - Traction Control	10 32 1
65-6390	Washer - Thrust	17 13 1	83-0630	Arm - Traction Pivot	10 29 1
65-8320	Bar - Gauge	2 * 1	83-0640	Plate - Footrest	1 12 1
66-2950	Gauge - Hourmeter	21 5 1	83-0650	Arm - Steering	17 3 1
67-1300	Decal - TORO	20 39 1	83-0700	Handle - Lockup	17 18 1
67-8113	Cap - End	18 18 1	83-0730	Spacer - Lockup	17 15 1
68-5100	Rod - Seat Prop	19 10 1	83-0740	Disc - Friction	17 14 2
68-5130	Steering Wheel Assembly	17 11 1	83-0750	Screw - Cap Hex. Hd. L.H.	17 6 1
68-5140	Cap - Steering Wheel	17 9 1	83-0760	Plate - Lockup	17 16 1
68-5260	Fitting - Manifold Tee	11 37 1	83-0780	Support - Steering Valve	17 4 1
68-5310	Clip - Seat Rod	19 12 1	83-0810	Cover - Steering Valve	17 25 1
68-5380	Lift Arm Assembly	6 21 1	83-0820	Gauge - Ammeter	21 4 1
68-5560	Pin - Cylinder Pivot	6 26 1	83-0830	Panel - Control Upper	20 33 1
68-5880	Hose - Hydraulic	20 30 1	83-0840	Fender - L.H.	20 19 1
68-6150	Breather	23 44 1	83-0870	Fitting - Hydraulic Straight	23 32 3
69-9760	Plate - Cover	2 50 1	83-0910	Hose - Hydraulic	23 30 2
70-2770	Head	7 8 1	83-0910	Hose - Pump	27 11 2
70-2780	Piston	7 4 1	83-1030	Mount - Engine	26 4 3
70-7130	Tube Assy.	11 3 1	83-1040	Washer - Mount	26 2 3
70-7150	Hose - Hydraulic	12 48 1	83-1050	Spacer - Mount	26 3 2
70-8130	Barrel	7 1 1	83-1060	Adapter - Pump	26 10 1
70-8250	Drive	18 16 1	83-1080	Pipe - Exhaust	26 7 1
70-8610	Hose - Hydraulic	12 51 1	83-1100	Harness - Wire (Main)	22 1 1
70-9840	Shoe - Brake	8 8 4	83-1100	Harness - Wire (Main)	21 8 1
70-9850	Clip - Retaining	8 23 2	83-1110	Harness - Wire (Engine)	22 2 1
70-9860	Cam - Brake	8 27 2	83-1150	Wire - Engine Ground	22 5 1
70-9870	Plate - Backing	8 10 2	83-1160	Wire - Solenoid-Starter	22 3 1
70-9880	Spring - Return	8 7 4	83-1170	Hose - Hydraulic	11 22 1
71-0990	Orifice	11 43 1	83-1170	Hose - Hydraulic	27 28 1
71-1500	Brake Assembly	8 * 2	83-1180	Hose - Hydraulic	11 6 1
72-3850	Seal - Filter	20 28 1	83-1180	Hose - Hydraulic	27 8 1
72-4320	Switch - Ball	19 18 1	83-1190	Hose - Hydraulic	27 1 2

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
83-1190	Hose - Hydraulic	11 10 2	83-2450	Hose - Hydraulic (Top)	8 34 1
83-1200	Tube Assy.	11 5 1	83-2460	Hose - Hydraulic	11 4 1
83-1220	Plate - Clamp	8 21 1	83-2460	Hose - Hydraulic (Bottom)	8 * 1
83-1270	Seat Support Assembly	19 7 1	83-2480	Decal - Parking Brake	1 9 1
83-1350	Hose - Hydraulic	27 7 1	83-2490	Decal - Service (Japanese)	19 34 1
83-1350	Hose - Hydraulic	17 26 2	83-2510	Decal - Steering Arm	17 32 1
83-1350	Hose - Hydraulic	29 28 1	83-2520	Decal - Warning (Japanese)	17 5 1
83-1350	Hose - Hydraulic	11 45 1	83-2530	Decal - Mow/Lift (Japanese)	1 14 1
83-1360	Hose - Hydraulic	17 27 1	83-2540	Decal - Traction (Japanese)	20 38 1
83-1360	Hose - Hydraulic	29 30 1	83-2560	Decal - Warning (Japanese)	26 34 1
83-1370	Hose - Hydraulic	17 28 1	83-2570	Plate - Control (Japanese)	21 2 1
83-1390	Fitting - Fuel Shut-Off	24 15 1	83-2580	Cylinder - Lift	3 6 1
83-1400	Shield - Muffler	26 16 1	83-2580	Hydraulic Cylinder Assy.	4 22 1
83-1420	Column - Steering	17 23 1	83-2590	Bolt - Eccentric	2 47 1
83-1430	Hose - Hydraulic	20 23 1	83-7230	Hydraulic Cylinder Assembly	6 10 1
83-1430	Hose - Hydraulic	23 34 1	84-2000	Bracket - Brake	8 12 2
83-1450	Sensor - Oil Level	23 3 1	84-2203	Control Valve Assembly	16 * 1
83-1460	Solenoid Valve Assembly	23 28 1	84-2203	Control Valve Assembly	11 16 1
83-1470	Washer - Neoprene	23 18 4	84-3180	Decal - Oil (Japanese)	19 33 1
83-1520	Screen - Filler	23 6 1	84-5300	Nut - Jam	29 5 1
83-1530	Bracket - Alarm	21 23 1	84-6560	Decal - Danger (Japanese)	4 3 1
83-1550	Spacer - Tank (Short)	23 17 2	84-6560	Decal - Danger (Japanese)	6 3 1
83-1560	Spacer - Tank (Long)	23 23 2	84-6560	Decal - Danger (Japanese)	3 13 1
83-1630	Bracket - Muffler Support	26 24 1	84-9240	Decal - Service (Spanish)	19 34 1
83-1640	Rod End Assembly	29 6 1	84-9250	Decal - Service (French)	19 34 1
83-1660	Switch Assembly	21 6 1	84-9260	Decal - Service (German)	19 34 1
83-1670	Fitting - Special	11 27 1	84-9270	Decal - Service (Swedish)	19 34 1
83-1680	Hose - Hydraulic	6 13 1	84-9280	Decal - Service (Italian)	19 34 1
83-1680	Hose - Hydraulic	11 30 1	85-6540	Stud - Drive	8 28 8
83-1690	Hose - Hydraulic	11 21 1	85-8120	Plate - Engine Mount	26 28 1
83-1690	Hose - Hydraulic	3 40 1	86-5360	Repair Kit	7 * 1
83-1700	Bushing - Flange	8 33 2	86-5390	Seal Kit	5 * 1
83-1700	Bushing - Flange	17 35 1	86-9820	Frame - Pull Rear	6 1 1
83-1840	Cover - R.H.	19 32 1	88-9620	Decal - Greensmaster 3100	2 46 1
83-1860	Centering Spring Kit	18 12 1	88-9630	Lift Pivot Bracket R.H.	2 40 1
83-1870	Gerotor	18 17 1	88-9640	Lift Pivot Bracket L.H.	1 28 1
83-1880	Control Parts Assembly	18 * 1	88-9660	Shaft - Cutting Control	2 36 1
83-1890	Switch - Ball	14 54 1	88-9700	Hose - Hydraulic	6 15 1
83-1890	Switch - Ball	16 60 1	88-9700	Hose - Hydraulic	11 20 1
83-1940	Guard - Pump	27 30 1	92-0585	Pull Arm Assembly R.H.	3 19 1
83-2000	Spool - Valve	23 42 1	92-0585	Pull Arm Assembly R.H.	4 34 1
83-2010	Coil - Valve	23 43 1	92-0585	Pull Arm Assembly R.H.	6 42 1
83-2030	Plate - Filler	21 3 1	92-0586	Pull Arm Assembly L.H.	3 17 1
83-2040	Hose - Fuel	24 14 1	92-0586	Pull Arm Assembly L.H.	4 31 1
83-2041	Hose - Fuel	24 11 1	92-0586	Pull Arm Assembly L.H.	6 39 1
83-2070	Hose - Valve	23 14 1	92-1180	Seat Assembly	19 5 1
83-2080	Hose - Valve-Tank	23 29 1	92-2545	Seals - Spool	14 * 1
83-2090	Hose - Overflow	23 15 1	92-2545	Seals - Spool	16 * 1
83-2100	Tank - Auxiliary Hydraulic	23 26 1	92-2546	Wiper - Seal	13 25 4
83-2200	Nut - Special	24 8 1	92-2546	Wiper - Seal	16 64 5
83-2220	Deflector - Exhaust	26 20 1	92-2547	Plate - Seal Retainer	15 18 5
83-2230	Screw - Cap Hex. Hd.	26 22 4	92-2547	Plate - Seal Retainer	13 24 4
83-2240	Arrestor - Spark	26 * 1	92-2548	Seals - Spool	14 * 1
83-2250	Guage - Sight	23 25 1	92-2548	Seals - Spool	16 * 1
83-2280	Timer - Relay	21 27 1	92-2549	Seals - Spool	16 * 1
83-2310	Shield	26 35 1	92-3058	Spring - Centering	13 41 1
83-2330	Hydraulic Cylinder Assy.	29 33 1	92-3148	Spring	15 23 1
83-2340	Cap - Threaded	30 2 2	92-4063	Plug - Filler Cap	23 7 1
83-2350	Cap - Head, Thread	30 5 2	92-5524	Decal - Noise Rating	20 42 1
83-2360	Assembly - Rod	30 9 1	92-6533	Kit - Cushion	19 35 1
83-2370	Assembly - Barrel	30 12 1	92-6534	Shell	19 36 1
83-2380	Kit - Seal Repair	30 * 1	92-7189	Tank - Fuel	24 2 1
83-2390	Pad - Tank	23 2 1	92-8020	Adapter - Breather	23 21 1
83-2400	Spacer - Tank	23 1 2	92-8690	Steering - Valve Assembly	17 24 1
83-2420	Wire - Solenoid-Battery	22 4 1	92-8691	Bushing - Seal Gland	18 3 1
83-2450	Hose - Hydraulic	11 1 1	92-8695	Seal Kit	18 * 1

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Part No.	Description	Pg. Ref. No. No.	Qty.	Part No.	Description	Pg. Ref. No. No.	Qty.
92-8696	Screw - Torx Hd.	18	19 7	94-2959	Ball Joint Receiver Assy.	4	4 2
92-8697	Plate - Wear	18	15 1	94-2959	Ball Joint Receiver Assy.	6	4 2
92-8795	Body Assembly	32	10 1	94-2959	Ball Joint Receiver Assy.	3	25 2
92-8796	Pin - Dowel	32	14 2	94-3506	Reel Motor Assembly	31	8 3
92-8863	Repair Kit	32	* 1	94-3507	Cover Assembly	32	4 1
92-8966	Reservoir - Hydraulic	23	5 1	94-3508	Drive Shaft Assembly	32	7 1
92-9164	Frame Assembly	20	18 1	94-3509	Idler Gear Assembly	32	6 1
92-9176	Frame - Pull L.H.	3	24 1	94-4248	Collar Spool	15	26 1
92-9177	Frame - Pull R.H.	4	1 1	94-5434	Spool #5	15	1 1
92-9199	Motor - Hydraulic	8	22 2	94-5586	Bar - Lift L.H.	3	30 1
92-9761	Link - Drive	9	13 7	94-5588	Bar - Lift, R.H.	4	9 1
92-9762	Screw - Cap Hex. Hd.	9	14 1	94-6960	Clamp - Mounting	21	9 1
92-9763	Rotor Set	9	* 1	94-8036	Decal - Service	19	34 1
92-9764	Hydraulic Pump Assembly	27	9 1	95-0659	Module - Interlock	21	26 1
92-9766	Plate - Gear 66B	28	14 1	95-1628	Hinge - Upper	1	8 1
92-9767	Hose - Hydraulic	11	18 2	95-1629	Hinge - Lower	1	22 1
92-9767	Hose - Hydraulic	4	39 2	217-60	Rim	8	3 2
92-9772	Shaft - Drive	28	20 1	217-60	Rim	29	10 1
92-9773	Gear - 58B	28	21 1	218-461	Nut - Hex.	21	16 2
92-9774	Idler Shaft - Gear Assy.	28	12 1	218-461	Nut - Hex.	19	25 2
93-1386	Section #5 Assembly	16	* 1	218-498	Nut - Hex.	21	19 2
93-2096	Arm - Brake	8	24 2	218-588	Screw	21	37 3
93-2384	Spacer - Carrier	6	31 1	218-589	Washer - Lock	21	36 1
93-2524	Fork - Castor	29	19 1	218-594	Fuse - 20 Amp	21	7 1
93-2554	Valve - Needle	12	53 1	2112-11	Clamp - Muffler	26	14 1
93-2555	Fitting - Valve Body	11	17 1	232-24	Stem - Valve	8	1 2
93-2556	Needle Valve Assembly	12	* 1	232-24	Valve Stem w/Cap	29	18 1
93-3651	Retainer - Boot	13	22 2	233-48	Knob	10	11 1
93-3651	Retainer - Boot	15	47 3	233-48	Knob	17	17 1
93-3652	Boot - Spool Assembly	14	* 2	237-7	Seal - O-Ring	19	24 1
93-3652	Boot - Spool Assembly	16	* 3	237-21	Seal - O-Ring	27	6 1
93-6668	Decal - Danger	20	45 1	237-21	Seal - O-Ring	11	19 6
93-7160	Cap - Hydraulic Reservoir	23	8 1	237-21	Seal - O-Ring	17	29 4
93-7170	Cap - Fuel	24	1 1	237-21	Seal - O-Ring	29	31 2
93-7252	Decal - C.E. Mark	20	46 1	237-22	Seal - O-Ring	27	2 3
93-7257	Decal - Service	19	34 1	237-22	Seal - O-Ring	11	11 6
93-7258	Decal - Service (Norwegian)	19	34 1	237-22	Seal - O-Ring	31	11 5
93-7259	Decal - Service (Finnish)	19	34 1	237-30	Seal - O-Ring	31	3 5
93-7260	Decal - Service (Danish)	19	34 1	237-30	Seal - O-Ring	11	7 2
93-7261	Decal - Service (Dutch)	19	34 1	237-30	Seal - O-Ring	19	19 1
93-7276	Decal - Danger	20	44 1	237-30	Seal - O-Ring	27	27 1
93-7629	Pad - Brake	2	49 1	237-35	Seal - O-Ring	6	11 2
93-7630	Pad - Mow	2	39 1	237-42	Seal - O-Ring	27	4 4
93-7631	Pad - Lift	2	37 1	237-42	Seal - O-Ring	31	9 3
93-8061	Plate - Control	21	2 1	237-42	Seal - O-Ring	11	15 4
93-8062	Decal - Parking Brake	1	9 1	237-42	Seal - O-Ring	17	31 4
93-8063	Decal - Warning	17	5 1	237-54	O-Ring	15	3 6
93-8064	Decal - Danger	4	3 1	237-54	O-Ring	13	6 8
93-8064	Decal - Danger	6	3 1	237-58	Seal - O-Ring	11	34 1
93-8064	Decal - Danger	3	13 1	237-65	Seal - O-Ring	11	2 6
93-8065	Decal - Traction	20	38 1	237-65	Seal - O-Ring	8	15 4
93-8067	Decal - Oil	19	33 1	237-78	Seal - O-Ring	6	14 2
93-8068	Decal - Steering Arm	17	32 1	237-78	Seal - O-Ring	29	32 2
93-8069	Decal - Warning	26	34 1	237-78	Seal - O-Ring	3	38 2
93-8075	Decal - Mow/Lift	1	14 1	237-78	Seal - O-Ring	4	38 2
93-9346	Clamp - Pressure Hose	31	23 6	237-79	Seal - O-Ring	31	7 3
93-9347	Clamp - Return Hose	31	24 6	237-79	Seal - O-Ring	11	9 4
93-9898	Decal - Lock	2	57 1	237-79	Seal - O-Ring	23	11 5
93-9901	Bracket - Lock Out, Mow	2	58 1	237-80	Seal - O-Ring	23	4 1
93-9903	Pin - Lock Out, Mow	2	56 1	237-80	Seal - O-Ring	8	13 4
93-9904	Arm - Lock Out, Mow	2	55 1	237-80	Seal - O-Ring	27	25 1
93-9934	Traction Handle Assembly	10	12 1	237-80	Seal - O-Ring	11	32 3
93-9936	Bracket - Cable	10	44 1	237-81	Seal - O-Ring	11	38 1
93-9937	Cable - Traction Return	10	45 1	237-101	Seal - O-Ring	20	26 2
94-2690	Filter - Fuel	24	13 1	237-123	Seal - O-Ring	23	24 1
94-2694	Cover - R.H.	20	2 1	237-143	Grommet	20	40 2

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237-177	Seal - O-Ring	23 33 3	321-11	Screw - Cap Hex. Hd.	23 40 2
240-11	Grommet	24 3 4	321-11	Screw - Cap Hex. Hd.	2 43 1
240-11	Grommet	23 37 3	321-11	Screw - Hex. Washer Hd.	8 17 1
242-50	Nut - Lug	29 8 4	322-1	Screw - Cap Hex. Hd.	3 1 3
242-50	Nut - Lug	8 29 8	322-1	Screw - Cap Hex. Hd.	4 21 3
2410-18	Plug	33 2 1	322-1	Screw - Cap Hex. Hd.	6 30 2
2410-73	Retainer - Tether	23 10 1	322-1	Screw - Cap Hex. Hd.	27 31 2
2411-42	Joint - Ball L.H. Thread	10 30 1	322-2	Screw - Cap Hex. Hd.	19 1 2
2411-43	Joint - Ball R.H. Thread	10 33 1	322-3	Screw - Cap Hex. Hd.	6 25 1
2412-34	Clamp - Hose	27 10 2	322-3	Screw - Cap Hex. Hd.	26 32 6
2412-34	Clamp - Hose	20 24 2	322-4	Screw - Cap Hex. Hd.	27 32 2
2412-34	Clamp - Hose	23 31 3	322-4	Screw - Cap Hex. Hd.	20 36 4
2412-36	Clamp - Hose	23 13 4	322-5	Screw - Cap Hex. Hd.	10 36 2
2412-36	Clamp - Hose	24 16 2	322-6	Screw - Cap Hex. Hd.	27 18 4
2412-39	Clamp - R	21 28 1	322-8	Screw - Cap Hex. Hd.	26 21 2
2412-41	Clamp - R	24 5 3	322-14	Screw - Cap Hex. Hd.	23 20 2
2412-41	Clamp - R	12 47 2	322-14	Screw - Cap Hex. Hd.	11 39 3
2412-94	Clamp - R	24 10 1	322-29	Screw - Cap Hex. Hd.	23 22 2
2412-108	Clamp - Hose	24 12 4	323-4	Screw - Cap Hex. Hd.	17 7 2
2412-133	Clamp - R	19 4 2	323-6	Screw - Cap Hex. Hd.	24 6 3
2412-141	Clamp - Hose	23 41 2	323-6	Screw - Cap Hex. Hd.	23 35 3
250-6	Tie - Cable	26 * 2	323-8	Screw - Cap Hex. Hd.	27 24 2
251-141	Bearing - Ball	3 22 2	323-12	Screw - Cap Hex. Hd.	26 1 3
251-141	Bearing - Ball	4 37 2	323-13	Screw - Cap Hex. Hd.	1 5 4
251-141	Bearing - Ball	6 45 2	324-7	Screw - Cap Hex. Hd.	26 30 4
253-111	Seal - Shaft	29 12 2	325-4	Screw - Cap Hex. Hd.	17 19 2
254-61	Cup - Bearing	29 3 2	325-11	Screw - Cap Hex. Hd.	8 9 8
254-70	Cone - Bearing	29 4 2	3211-2	Screw - Cap Hex. Hd.	10 19 2
254-78	Cone - Bearing	29 13 2	3217-5	Nut - Hex.	20 12 2
254-79	Cup - Bearing	29 14 2	3217-6	Nut - Hex.	28 1 4
256-2	Bushing - Sleeve	10 20 2	3217-6	Nut - Hex.	10 48 1
256-155	Bushing - Flange	10 26 2	3217-7	Nut - Hex	13 33 3
256-155	Bushing - Flange	19 28 2	3217-12	Nut - Lock	29 26 1
256-251	Bushing - Sleeve	10 10 2	3217-16	Nut - Hex	21 33 3
282-2	Clevis - Adjusting	1 2 5	3217-25	Nut - Hex.	21 35 2
282-2	Clevis - Rod	10 3 1	3217-27	Nut - Hex.	21 10 2
283-8	Pin - Clevis	3 4 1	3218-13	Nut - Jam	20 8 2
283-8	Pin - Clevis	4 18 1	3219-2	Nut - Hex.	34 6 1
283-57	Pin - Clevis	10 8 1	3219-14	Nut - Hex.	20 7 2
283-61	Pin - Clevis	1 1 5	3219-18	Nut - Hex.	33 2 1
283-61	Pin - Clevis	10 4 1	3220-2	Nut - Jam	10 2 2
283-62	Pin - Clevis	10 46 1	3220-2	Nut - Jam	1 3 5
302-2	Fitting - Grease	6 17 1	3220-3	Nut - Jam	4 2 2
302-2	Fitting - Grease	4 23 1	3220-3	Nut - Jam	6 2 2
302-2	Fitting - Grease Straight	3 34 1	3220-3	Nut - Jam	3 23 2
302-5	Fitting - Grease	30 13 1	3220-6	Nut - Jam	5 14 1
302-5	Fitting - Grease	1 27 1	3220-6	Nut - Jam	29 21 2
302-5	Fitting - Grease	4 29 4	3220-20	Nut - Jam L.H. Thread	10 31 1
302-5	Fitting - Grease	2 44 1	3229-22	Bolt - Carriage	1 10 2
302-5	Fitting - Grease Straight	3 15 4	3234-1	Screw - Cap Hex. Hd.	2 53 4
302-5	Fitting - Grease Straight	6 37 5	3234-1	Screw - Hex. Flange Hd.	10 6 4
302-11	Fitting - Grease	29 2 1	3234-4	Screw - Cap Hex. Hd.	12 46 1
302-55	Fitting - Grease	29 16 1	3241-2	Screw - Set Square Hd.	27 19 2
302-60	Fitting - Grease 90°	3 8 2	3241-6	Screw - Set Square Hd.	27 13 2
302-60	Fitting - Grease 90°	4 17 2	3245-1	Screw - Set, Hex. Soc. Hd.	30 1 2
302-60	Fitting - Grease 90°	6 32 1	3246-3	Screw - Set	17 12 1
304-61	Clamp - R	11 23 1	3253-3	Washer - Lock	26 26 4
321-2	Screw - Cap Hex. Hd.	23 16 1	3253-3	Washer - Lock	23 39 2
321-3	Screw - Cap Hex. Hd.	20 10 4	3253-3	Washer - Lock	16 57 4
321-3	Screw - Cap Hex. Hd.	19 13 1	3253-4	Washer - Lock	19 2 2
321-3	Screw - Cap Hex. Hd.	2 52 3	3253-4	Washer - Lock	20 9 2
321-4	Screw - Cap Hex. Hd.	26 27 4	3253-6	Washer - Lock	26 29 4
321-4	Screw - Cap Hex. Hd.	8 31 1	3253-19	Washer - Lock	21 38 3
321-4	Screw - Hex. Flange Hd.	1 16 2	3253-21	Washer - Lock	27 23 2
321-5	Screw - Cap Hex. Hd.	21 21 1	3253-21	Washer - Lock	4 27 2
321-5	Screw - Cap Hex. Hd.	8 26 8	3253-21	Washer - Lock	3 35 2

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
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3254-1	Washer - Lock	20 6 2	3290-378	Tie - Cable	26 * 2
3254-5	Washer - Lock	21 15 2	3290-379	Tie - Cable	6 46 1
3254-6	Washer - I.T.L.W.	10 18 2	3290-470	Screw - Flat Hd.	20 22 2
3254-10	Washer - Lock, Int. Tooth	21 31 2	3296-4	Nut - Lock	10 22 2
3255-7	Washer - Lock, Int. Tooth	21 29 1	3296-16	Nut - Lock	19 11 1
3255-8	Washer - Lock, Int. Tooth	34 9 1	3296-16	Nut - Lock	1 21 2
3255-20	Washer - Lock, Ext. Tooth	21 34 2	3296-16	Nut - Lock	21 24 9
3255-24	Washer - Lock, Ext. Tooth	21 32 3	3296-16	Nut - Lock	20 34 3
3256-1	Washer - Flat	26 18 8	3296-16	Nut - Lock	12 49 1
3256-1	Washer - Flat	21 20 9	3296-23	Nut - Lock	8 19 8
3256-1	Washer - Flat	2 51 9	3296-27	Nut - Lock	21 11 4
3256-22	Washer - Flat	20 3 5	3296-29	Nut - Lock	19 8 4
3256-22	Washer - Flat	8 30 2	3296-29	Nut - Lock	27 14 4
3256-22	Washer - Flat	23 45 1	3296-29	Nut - Lock	10 16 3
3256-22	Washer - Flat	12 52 1	3296-29	Nut - Lock	6 29 1
3256-23	Washer - Flat	3 2 3	3296-39	Nut - Lock	1 20 2
3256-23	Washer - Flat	27 17 8	3296-42	Nut - Lock	8 25 8
3256-23	Washer - Flat	23 19 4	3296-59	Nut - Lock	10 15 4
3256-23	Washer - Flat	4 20 3	3296-59	Nut - Lock	2 34 8
3256-23	Washer - Flat	26 23 2	3296-67	Nut - Lock	29 25 1
3256-23	Washer - Flat	6 28 3	32103-12	Nut - Wing	20 14 2
3256-23	Washer - Flat	19 30 4	32104-17	Screw - Hex. Hd.	21 39 1
3256-23	Washer - Flat	20 35 4	32104-76	Screw - Self Tapping	20 1 5
3256-24	Washer - Flat	10 14 6	32108-100	Screw - Flat Hd.	8 16 1
3256-24	Washer - Flat	4 26 2	32120-8	Ring - Retaining	5 10 1
3256-24	Washer - Flat	6 34 2	32121-6	Pin - Roll	10 39 1
3256-24	Washer - Flat	3 36 2	32121-6	Pin - Roll	2 41 1
3256-26	Washer - Flat	4 12 1	32121-35	Pin - Roll	2 32 8
3256-26	Washer - Flat	6 20 1	32121-45	Pin - Roll	19 14 1
3256-26	Washer - Flat	3 31 1	32121-45	Pin - Roll	10 28 1
3256-26	Washer - Flat	17 34 2	32121-51	Pin - Roll	10 43 1
3256-28	Washer - Flat	29 27 1	32122-35	Screw - Truss Head	34 8 1
3256-38	Washer - Flat	2 35 6	32128-20	Nut - Flange Lock	11 24 3
3256-63	Washer - Flat	24 7 1	32128-20	Nut - Flange Lock	10 27 1
3256-80	Washer - Flat	17 2 3	32128-20	Nut - Flange Lock	27 29 2
3257-42	Key - Woodruff	8 11 2	32128-20	Nut - Flange Lock	26 31 8
3257-42	Key - Woodruff	9 17 1	32128-20	Nut - Lock, Flange	34 3 1
3272-4	Pin - Cotter	10 13 1	32128-33	Nut - Flange Lock	1 18 2
3272-6	Pin - Cotter	1 30 5	32128-33	Nut - Lock	8 32 1
3272-6	Pin - Cotter	10 41 1	32136-9	Nut - Hex. Slotted	29 34 1
3272-10	Pin - Cotter	10 47 1	32141-111	Nut Flange Lock	1 11 1
3272-11	Pin - Cotter	3 5 2	32144-21	Screw - Round Hd.	17 8 2
3272-11	Pin - Cotter	19 9 1	32148-6	Insert - Threaded	1 19 8
3272-11	Pin - Cotter	4 13 2	32149-2	Nut - Keps	20 37 2
3272-11	Pin - Cotter	6 19 1	32149-7	Nut - Keps	20 41 2
3272-37	Pin - Cotter	29 1 1	32151-41	Ring - Retaining	32 13 1
3273-26	Screw - Hex. Socket Hd.	21 18 4	32152-10	Nut - Hex.	7 2 1
3274-7	Screw - Socket Hd.	26 9 2	32152-10	Nut - Lock	5 2 1
3274-12	Screw - Hex. Socket Hd.	19 29 4	340-1	Fitting - Hydraulic Straight	17 30 4
3274-15	Screw - Fillister Hd.	13 43 2	340-14	Fitting - Hydraulic 45°	8 14 4
3274-31	Screw - Hex. Socket Hd.	1 15 4	340-16	Fitting - Hydraulic 90°	11 33 1
3274-39	Screw - Cap Hex. Hd.	17 21 6	340-18	Fitting - Hydraulic 90°	11 13 1
3274-52	Screw - Hex. Socket Hd.	13 20 4	340-77	Fitting - Hydraulic 90°	31 10 2
3274-52	Screw - Hex. Socket Hd.	15 45 6	340-77	Fitting - Hydraulic 90°	11 14 2
3274-63	Screw - Hex. Socket Hd.	17 33 2	340-82	Fitting - Hydraulic 90°	27 5 1
3274-64	Screw - Hex. Socket Hd.	20 4 3	340-87	Fitting - Hydraulic 45°	27 3 3
3274-69	Screw - Hex. Socket Hd.	21 1 8	340-87	Fitting - Hydraulic 45°	31 15 1
3274-70	Screw - Hex. Socket Hd.	13 1 2	340-98	Fitting - Hydraulic 90°	31 14 3
3274-80	Screw - Cap Hex. Hd.	17 1 3	340-101	Fitting - Hydraulic 45°	11 8 1
3274-84	Screw - Cap, Hex. Hd.	16 58 4	340-103	Fitting - Hydraulic 45°	6 12 2
3284-3	Pin - Groove	19 15 1	340-105	Fitting - Hydraulic 90°	27 26 1
3290-277	Nut - Speed	17 22 6	340-132	Fitting - Hydraulic 90°	29 29 2
3290-317	Washer - Wave	3 18 2	340-137	Fitting - Hydraulic 45°	11 44 1
3290-317	Washer - Wave	4 32 2	340-138	Fitting - Hydraulic 45°	11 12 2
3290-317	Washer - Wave	6 40 2	351-78	Edging	19 40 1

\*Not Illustrated

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353-302	O-Ring	15	7	3	353-830	O-Ring	15	25	1
353-302	O-Ring	13	10	3	353-831	Spring	15	21	1
353-303	Ring - Backup	15	8	6	353-833	Positioner Assembly	16	*	1
353-303	Ring - Backup	13	9	6	353-835	Seals - Section Set	14	*	1
353-304	Spring	13	28	1	353-835	Seals - Section Set	16	*	1
353-305	O-Ring	15	5	5	353-837	Section #2 Complete	14	*	1
353-305	O-Ring	13	8	4	353-839	Positioner - DI (SPL) Assy.	14	*	1
353-306	Ring - Backup	15	4	5	353-840	Position - DI (SP) Assy.	16	*	1
353-306	Ring - Backup	13	7	4	353-841	Position - Spool Assembly	16	*	1
353-328	Washer - Shim	13	15	A/R	353-844	Plus Series	16	55	1
353-328	Washer - Shim	15	32	A/R	353-845	Sleeve - Detent	15	41	1
353-329	Washer - Shim	13	16	A/R	353-846	Spud - DI (SPL)	15	40	1
353-329	Washer - Shim	15	33	A/R	353-847	Bonnet (SPL)	15	38	1
353-330	Washer - Shim	13	17	A/R	353-848	O-Ring	15	14	1
353-330	Washer - Shim	15	34	A/R	353-849	Sleeve	15	39	1
353-331	O-Ring	13	29	1	353-850	O-Ring	16	56	1
353-334	Cap - Relief	13	19	2	353-851	Body - Relief CP-RC Mod.	13	12	1
353-334	Cap - Relief	15	36	2	353-851	Body - Relief CP-RC Mod.	15	29	2
353-392	Seal - Relief Poppet PTFE	13	13	2	353-853	Bolt - Hex Hd.	15	10	3
353-392	Seal - Relief Poppet PTFE	15	30	2	353-855	Spring	13	18	2
353-398	Spring	15	35	1	353-855	Spring	15	44	1
353-417	Collar Spring	15	20	2	353-884	Key - Woodruff	28	19	4
353-417	Collar Spring	13	40	2	353-886	Ring - Retaining	28	18	2
353-481	Plug - Load Check	15	2	3	353-922	Seal - Ring	28	23	10
353-481	Plug - Load Check	13	5	3	353-923	Bearing Plate Assembly	28	26	2
353-483	Body - Anticavitation	16	61	1	353-952	Ring - Backup	13	32	1
353-484	Retainer - Ball	16	62	1	353-953	Plug Assembly	16	54	1
353-529	Plate Seal	15	22	1	353-957	Seal - Lip	15	15	6
353-531	Poppet Assembly	15	31	2	353-957	Seal - Lip	13	26	4
353-531	Poppet Assy.	13	14	2	353-958	Ring - Backup	15	16	1
353-550	Plug - Hydraulic	23	38	1	353-967	Gear - 33B	28	24	6
353-550	Plug Assembly	15	13	1	353-969	Plate - Gear 33B	28	25	3
353-563	Fitting - Hydraulic Straight	20	25	1	354-2	Body Assembly	28	15	1
353-564	Fitting - Hydraulic 90°	20	31	1	354-3	Bearing Plate Assembly	28	22	1
353-575	Boot - Dust Cap	13	21	2	354-4	Bearing Plate Assembly	28	28	1
353-575	Boot - Dust Cap	15	46	3	354-5	Adapter - Splined	28	27	1
353-579	Spring	13	45	1	354-6	Plate - Gear 18B	28	30	1
353-599	Pin - Dowel	32	3	2	354-7	Cover Assembly	28	31	1
353-642	Relief - RC Mod.	14	*	2	354-8	Drive Shaft - Gear Assy.	28	29	1
353-642	Relief - RC Mod. Assembly	16	*	1	354-9	Idler Shaft - Gear Assy.	28	5	1
353-668	Plate - Cap, Cover RH	15	11	1	354-11	Pin - Dowel	28	4	2
353-721	Plug	13	35	2	354-12	Pin - Dowel	28	6	2
353-727	Bonnet	13	2	1	354-13	Pin - Dowel	28	11	4
353-728	Sleeve	14	50	1	354-14	Pin - Dowel	28	13	2
353-729	Spud - Detent	13	3	1	354-15	Seal - Shaft	28	17	1
353-730	Spring	15	42	1	354-16	Washer - Lock	28	2	4
353-731	Ball	15	43	1	354-17	Stud - Threaded	28	3	4
353-732	Sleeve - Detent	14	52	1	354-25	Section #4 Assembly	16	*	1
353-733	Spacer - Bonnet	13	4	1	354-26	Bonnet	15	27	2
353-733	Spacer - Bonnet	15	19	2	354-28	Screw - Hex, Socket Hd.	15	28	2
353-737	Ball	16	63	1	354-29	Plate - Thrust	13	48	1
353-758	Seal - O-Ring	13	31	1	354-35	Gasket	28	32	1
353-760	Body Relief	13	30	1	354-46	Ring - Seal	32	8	1
353-762	Spud - Detent Out	14	49	1	354-50	Screw - Hex Socket Hd.	32	1	4
353-763	Cap - Adjustment	13	44	1	354-51	Washer	32	2	4
353-766	Relief WH (2000) PSI Assy.	14	*	1	354-120	Fitting - Hydraulic 90°	23	27	3
353-768	Section #1 Complete	14	*	1	354-121	Fitting - Hydraulic Straight	23	12	1
353-772	Left End Cover	13	34	1	354-122	Disc - Seal	16	52	1
353-780	Bonnet - R. Detent	13	42	1	354-129	Anticavitation Check Assy.	16	*	1
353-780	Positioner - R. Detent (Out)	14	*	1	354-131	Section #3 Assembly	16	*	1

\*Not Illustrated

## PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit, which is not reflected in your manual, see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

## IDENTIFICATION AND ORDERING

### MODEL AND SERIAL NUMBERS

The Greensmaster 3100 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Greensmaster 3100, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:

1. Model and serial number of the Greensmaster 3100.
2. Part number, description, and the quantity of part(s) desired.

**NOTE:** Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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Japanese parts kit number 83-2600 contains all of the individual parts on the preceding pages designated as (Japanese).



