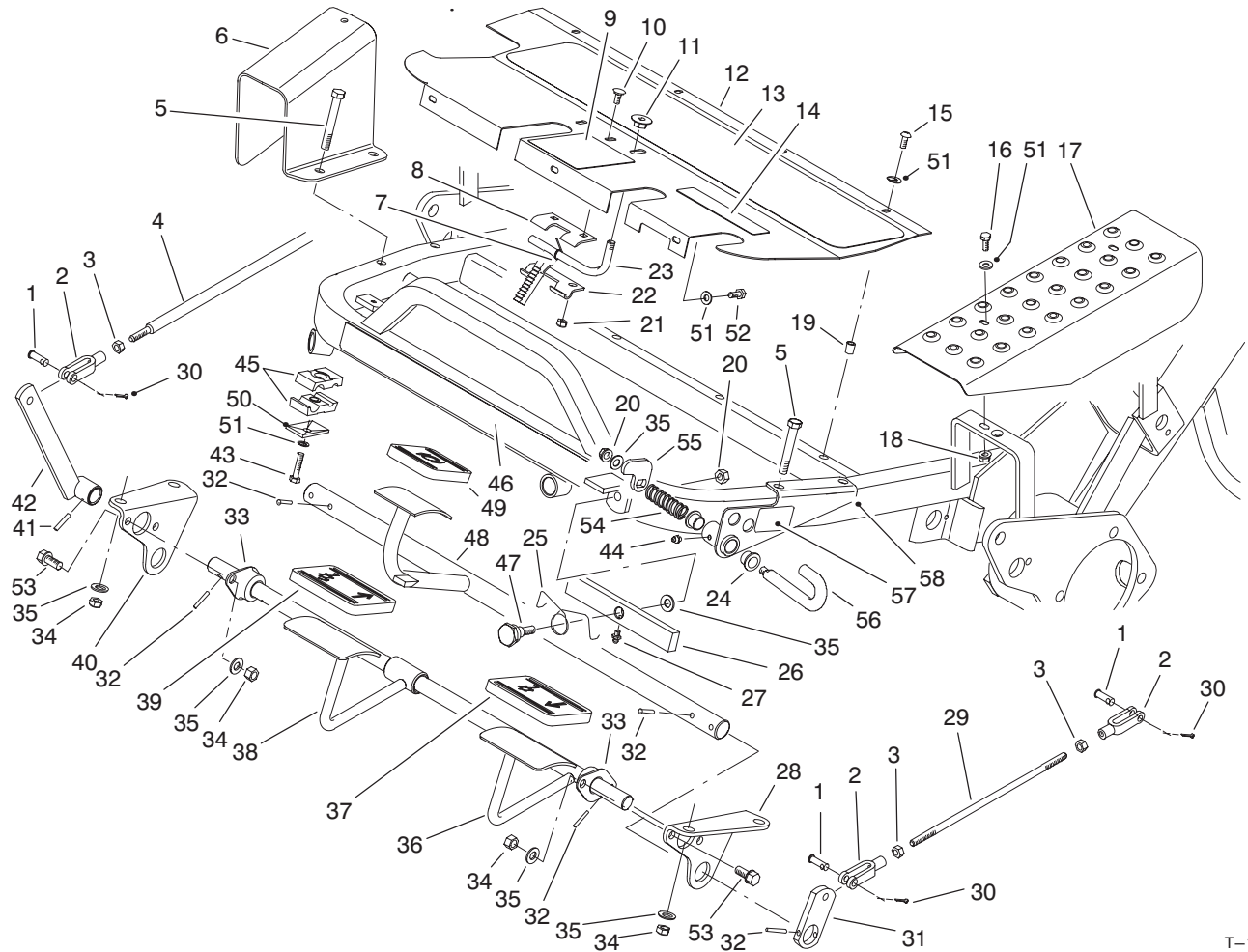


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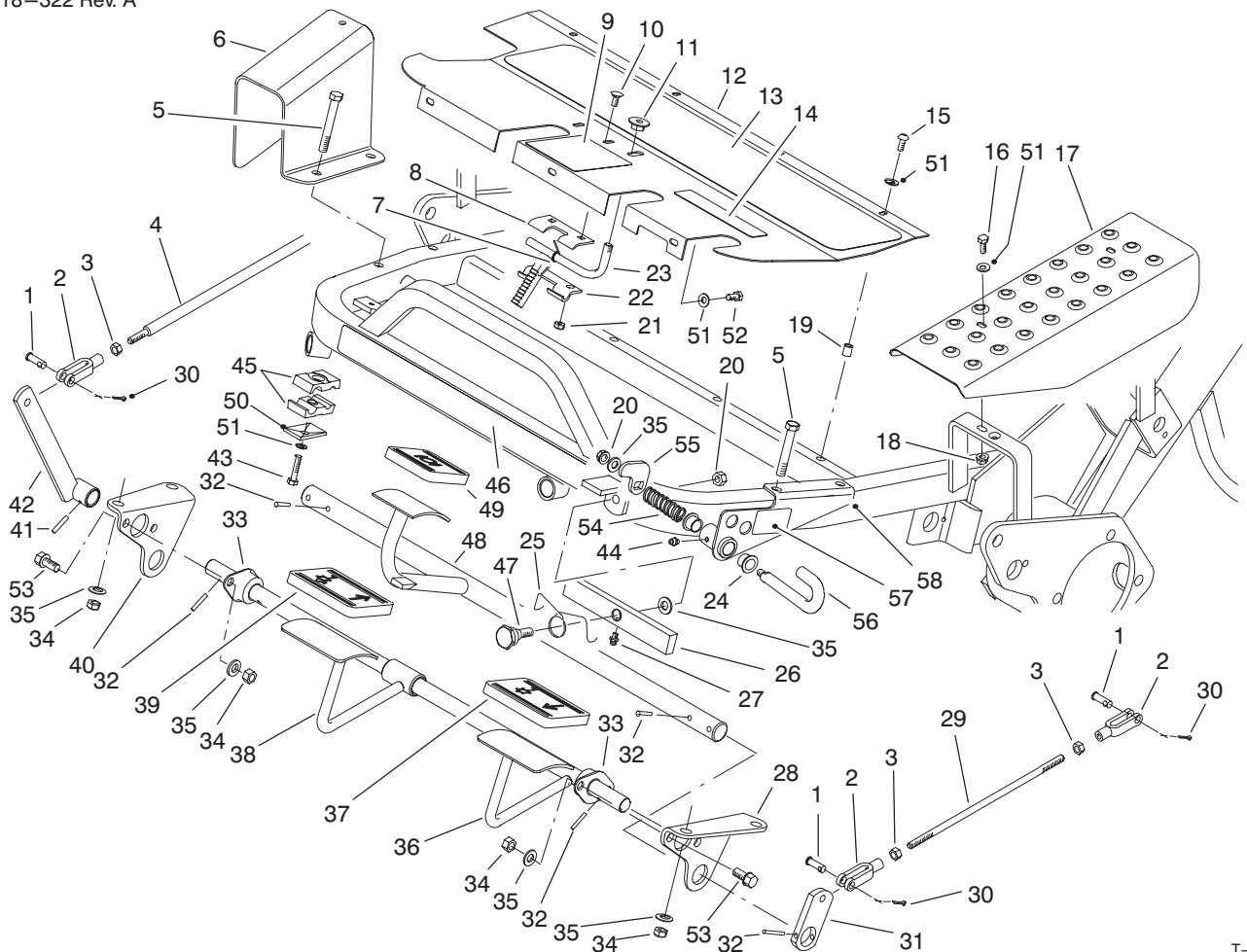
MODEL NO. 04353-60300 &amp; UP

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

T-1285B

**CONTROL PEDAL ASSEMBLY**

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	283-61	Pin - Clevis	5	15	3274-31	Screw - Hex. Socket Hd.	4
2	282-2	Clevis - Adjusting	5	16	321-4	Screw - Hex. Flange Hd.	2
3	3220-2	Nut - Jam	5	17	83-0200	Cover - L.H.	1
4	49-5430	Rod - Control	1	18	32128-33	Nut - Flange Lock	2
5	323-13	Screw - Cap Hex. Hd.	4	19	32148-6	Insert - Threaded	8
6	49-6110	Guard - Transfer Rod	1	20	3296-39	Nut - Lock	2
7	10-8140	Spring - Torsion	1	21	3296-16	Nut - Lock	2
8	10-7880	Hinge - Upper	1	22	10-7890	Hinge - Lower	1
9	93-8062	Decal - Parking Brake	1	23	10-7850	Latch - Parking Brake	1
9	83-2480	Decal - Parking Brake (Japanese)	1	24	3-1506	Bushing	2
10	3229-22	Bolt - Carriage	2	25	83-0080	Spring - Torsion	1
11	32141-111	Nut Flange Lock	1	26	83-0060	Lift - Pivot	1
12	83-0640	Plate - Footrest	1	27	302-5	Fitting - Grease	1
13	49-6120	Pad - Footrest	1	28	88-9640	Lift Pivot Bracket L.H.	1
14	93-8075	Decal - Mow/Lift	1	29	27-2270	Rod - Brake Adjusting	2
14	83-2530	Decal - Mow/Lift (Japanese)	1	30	3272-6	Pin - Cotter	5
				31	10-8100	Strap - Brake Shaft	2



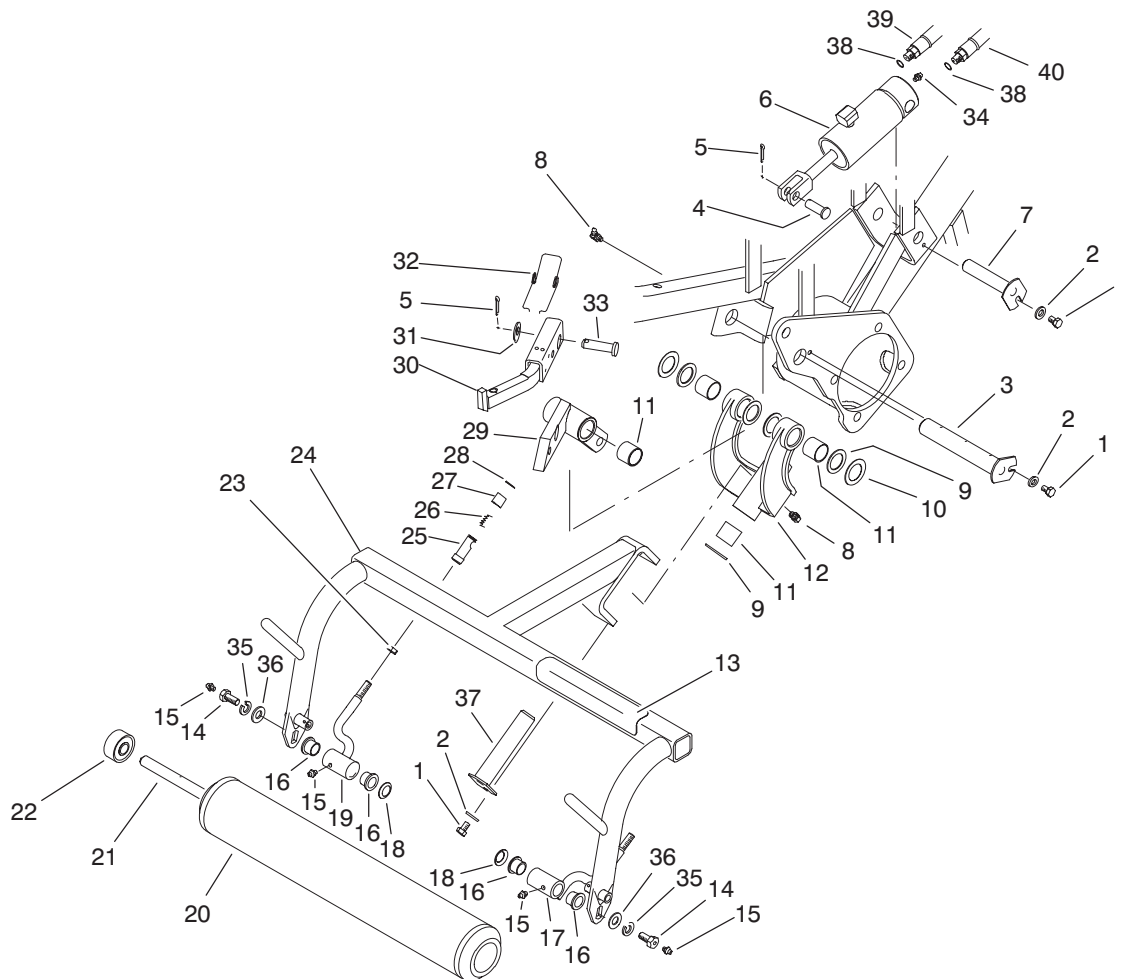
T-1285B

## 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 - Shoulder	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

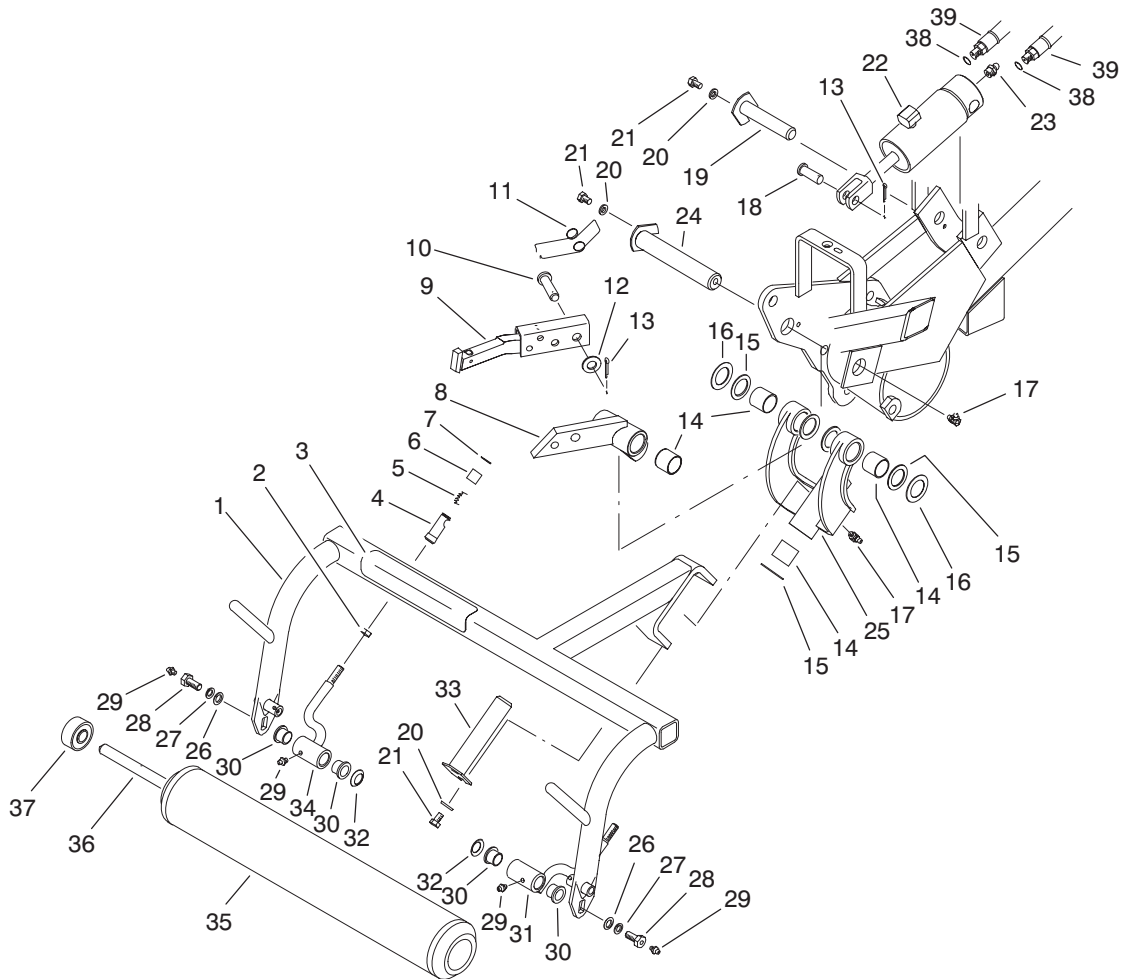
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T-1283

## PULL FRAME ASSEMBLY L.H.

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-1	Screw - Cap Hex. Hd.	3	21	21-8470	Shaft - Roller	1
2	3256-23	Washer - Flat	3	22	251-141	Bearing - Ball	2
3	10-6110	Pin - Hinge	1	23	3220-3	Nut - Jam	2
4	283-8	Pin - Clevis	1	24	92-9176	Frame - Pull L.H.	1
5	3272-11	Pin - Cotter	2	25	94-2959	Ball Joint Receiver Assy. (Incl. Ref. #26-28)	2
6	83-2580	Cylinder - Lift	1	26		Spring - Compression	2
7	10-6060	Pin - Lift Cylinder	1	27		Sleeve	2
8	302-60	Fitting - Grease 90°	2	28		Ring - Retaining	2
9	10-8110	Washer - Thrust	6	29	62-2460	Lift Arm Assembly L.H. (Incl. Ref. #11)	1
10	5-1226	Washer - Shim	2	30	94-5586	Bar - Lift L.H.	1
11	3-0348	Bushing - Sleeve	6	31	3256-26	Washer - Flat	1
12	10-7820	Pivot Hinge Assembly (Incl. Ref. #11)	1	32	57-7650	Spring - Torsion	1
13	93-8064	Decal - Danger	1	33	63-8750	Pin - Pivot	1
13	84-6560	Decal - Danger (Japanese)	1	34	302-2	Fitting - Grease Straight	1
14	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #15)	2	35	3253-21	Washer - Lock	2
15	302-5	Fitting - Grease Straight	4	36	3256-24	Washer - Flat	2
16	3-1506	Bushing - Flange	4	37	10-6090	Pin - Pivot	1
17	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #16)	1	38	237-78	Seal - O-Ring	2
18	3290-317	Washer - Wave	2	39	63-3850	Hose - Hydraulic (Incl. Ref. #38)	1
19	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #16)	1	40	83-1690	Hose - Hydraulic (Incl. Ref. #38)	1
20	52-2720	Roller Assembly (Incl. Ref. #22)	1				

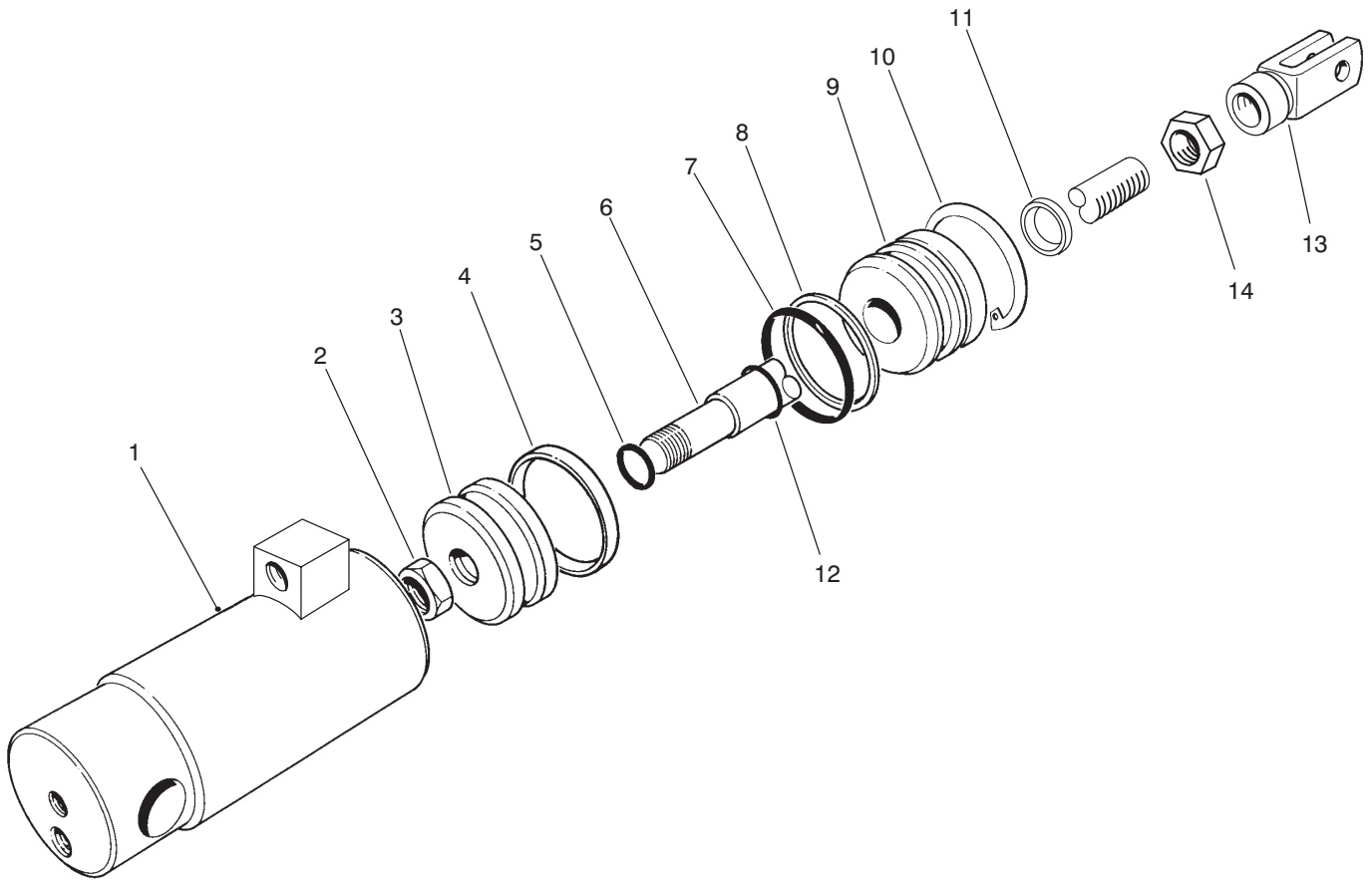


T-1284

## 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



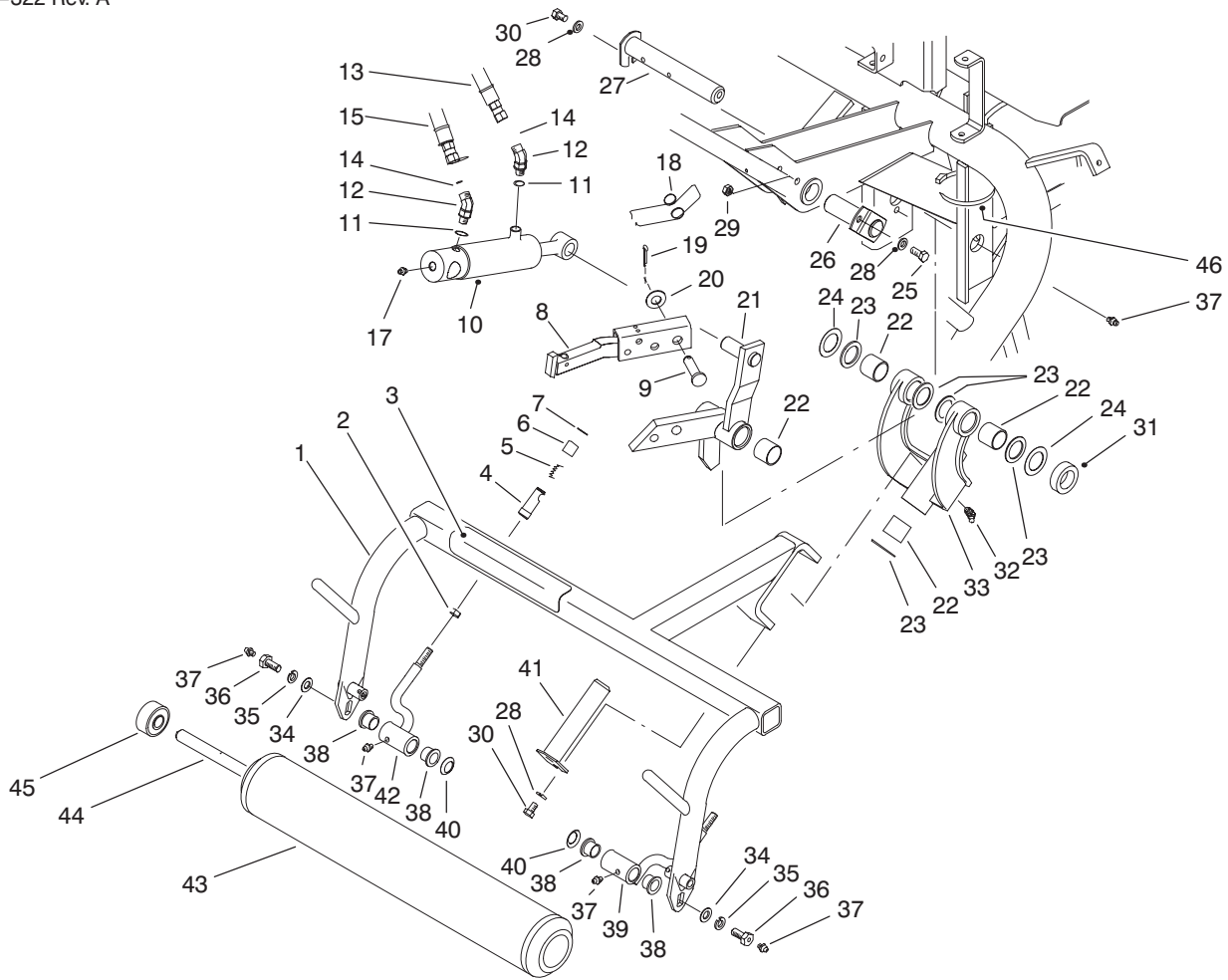
T-1246

## 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

\*Not Illustrated

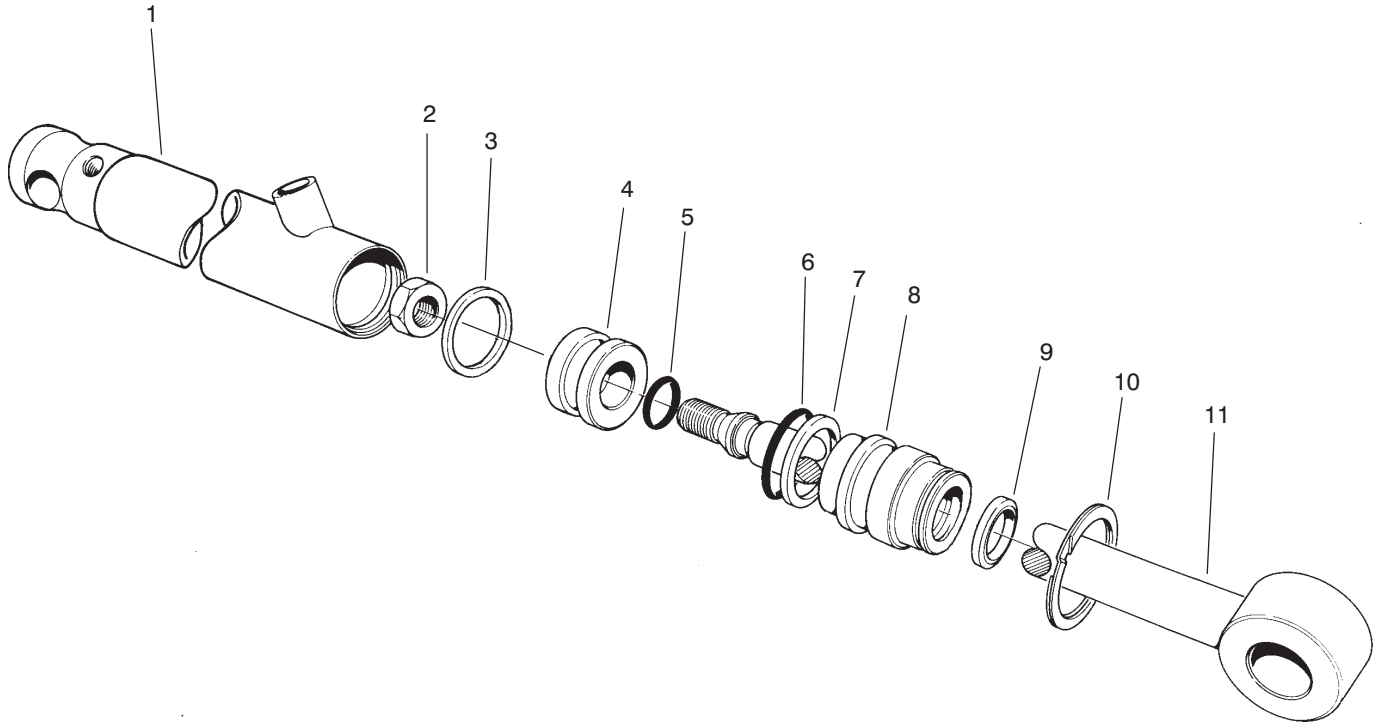


T-1286

## PULL FRAME ASSEMBLY REAR

Ref. No.	Part No.	Description	No. Used
1	86-9820	Frame - Pull Rear	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	62-2420	Bar - Lift	1
9	63-8750	Pin - Pivot	1
10	83-7230	Hydraulic Cylinder Assembly	1
11	237-35	Seal - O-Ring	2
12	340-103	Fitting - Hydraulic 45° (Incl. Ref. #11 & 14)	2
13	83-1680	Hose - Hydraulic	1
14	237-78	Seal - O-Ring	2
15	88-9700	Hose - Hydraulic	1
17	302-2	Fitting - Grease	1
18	57-7650	Spring - Torsion	1
19	3272-11	Pin - Cotter	1
20	3256-26	Washer - Flat	1
21	68-5380	Lift Arm Assembly (Incl. Ref. #22)	1
22	3-0348	Bushing - Sleeve	6
23	10-8110	Washer - Thrust	6
24	5-1226	Washer - Shim	2

Ref. No.	Part No.	Description	No. Used
25	322-3	Screw - Cap Hex. Hd.	1
26	68-5560	Pin - Cylinder Pivot	1
27	27-2550	Pin - Pivot	1
28	3256-23	Washer - Flat	3
29	3296-29	Nut - Lock	1
30	322-1	Screw - Cap Hex. Hd.	2
31	27-2540	Spacer - Hub	1
32	302-60	Fitting - Grease 90°	1
33	10-7820	Pivot Hinge Assembly (Incl. Ref. #22)	1
34	3256-24	Washer - Flat	2
35	3253-21	Washer - Lock	2
36	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #37)	2
37	302-5	Fitting - Grease Straight	5
38	3-1506	Bushing - Flange	4
39	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #38)	1
40	3290-317	Washer - Wave	2
41	10-6090	Pin - Pivot	1
42	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #38)	1
43	52-2720	Roller Assembly (Incl. Ref. #45)	1
44	21-8470	Shaft - Roller	1
45	251-141	Bearing - Ball	2
46	3290-379	Tie - Cable	1



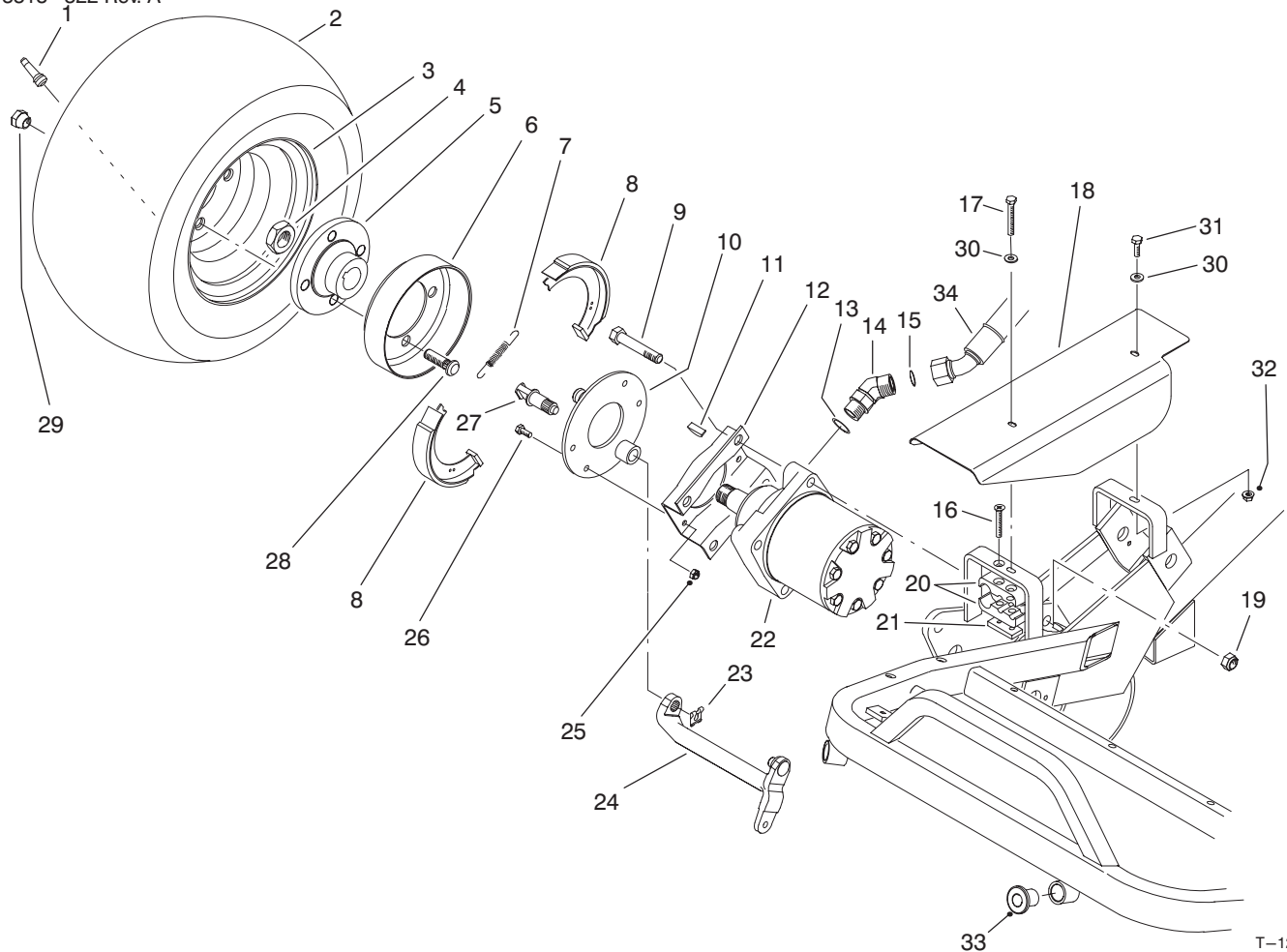
T-0640

## 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



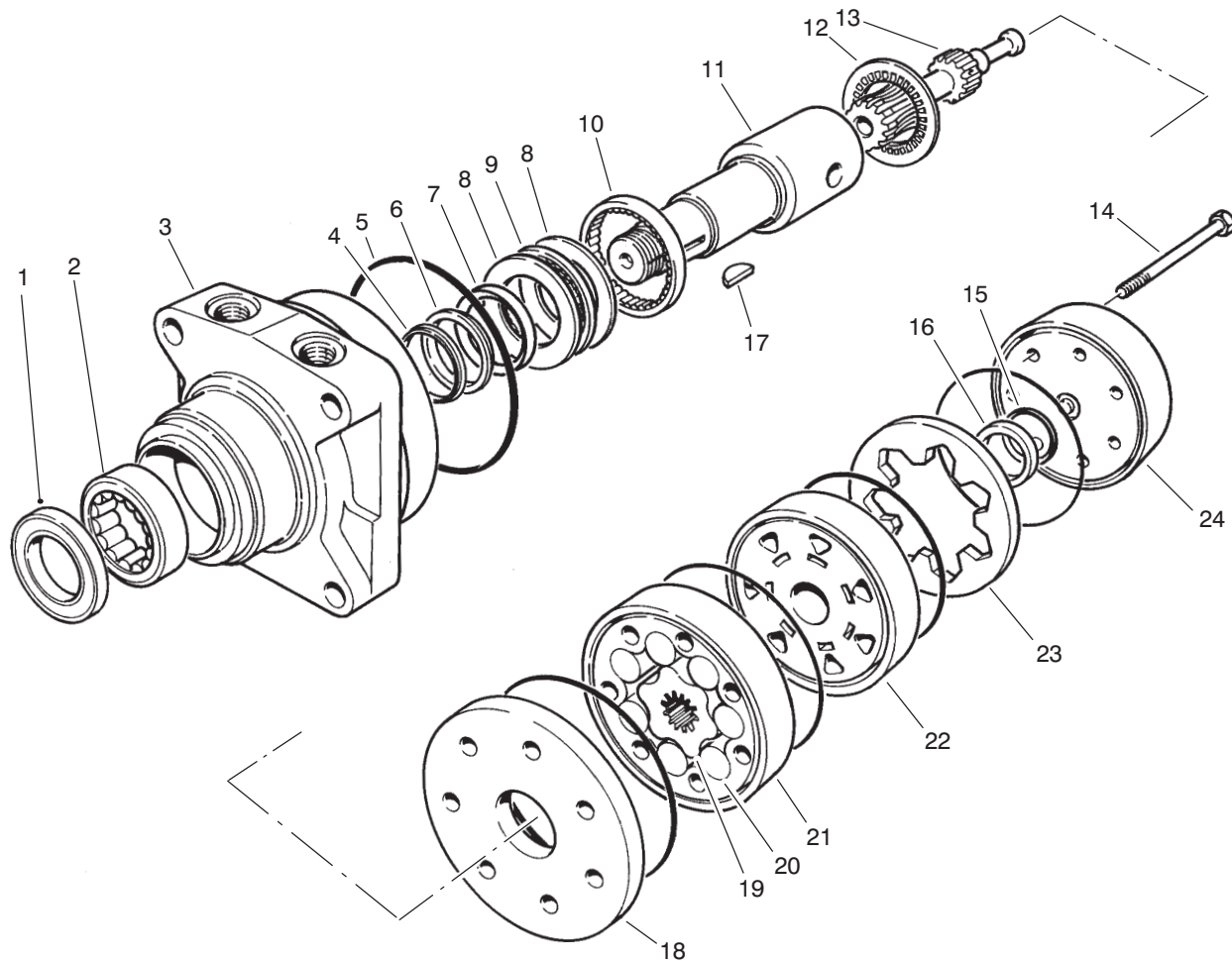
T-1282

## 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	71-1510	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

\*Not Illustrated

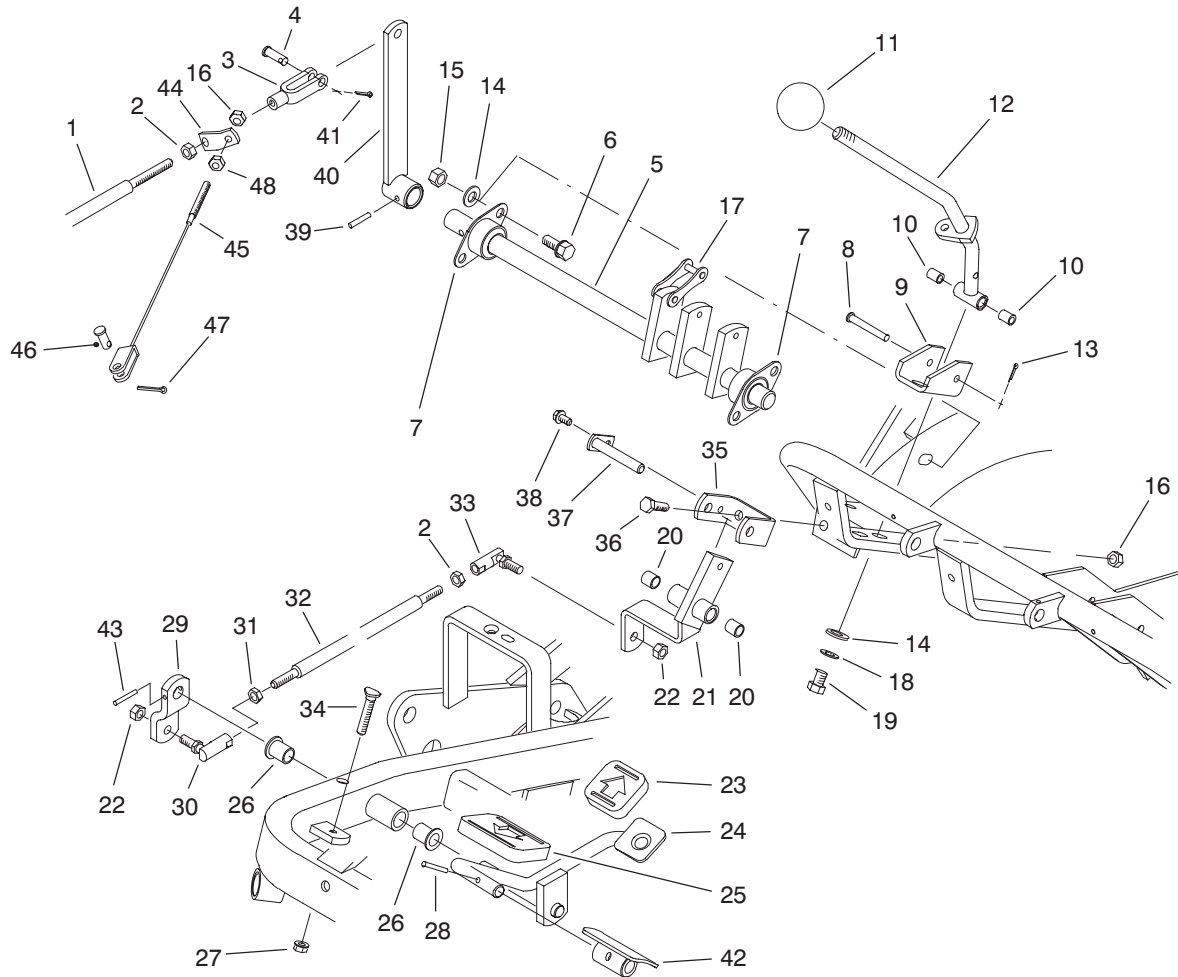


T-0983

## HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 92-9199

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1		Seal - Dirt & Water	1	17	3257-42	Key - Woodruff	1
2		Bearing	1	18	76-0870	Plate - Wear	1
3		Housing	1	19		Rotor	1
4		Washer - Back-Up	1	20		Vane	7
5		Ring - Seal	5	21		Stator	1
6		Washer - Back-Up	1	22	76-0840	Manifold	1
7		Seal - Inner	1	23		Ring - Commutator	1
8		Washer - Thrust	2	24	76-0940	End Cover Assembly	1
9		Bearing - Thrust	1	*	92-9763	Rotor Set (Incl. Ref. #19-21)	1
10		Bearing	1	*	76-0880	Commutator Assembly (Incl. Ref. #15, 16 & 23)	1
11	76-0860	Shaft - Coupling	1	*	76-0800	Seal Kit (Incl. Ref. #1, 4-7 & 15)	1
12	76-0850	Bearing - Thrust	1	*	76-0810	Housing Assembly (Incl. Ref. #2, 3 & 8-10)	1
13	92-9761	Link - Drive	7				
14	92-9762	Screw - Cap Hex. Hd.	1				
15		Seal - Commutator	1				
16		Commutator	1				

\*Not Illustrated

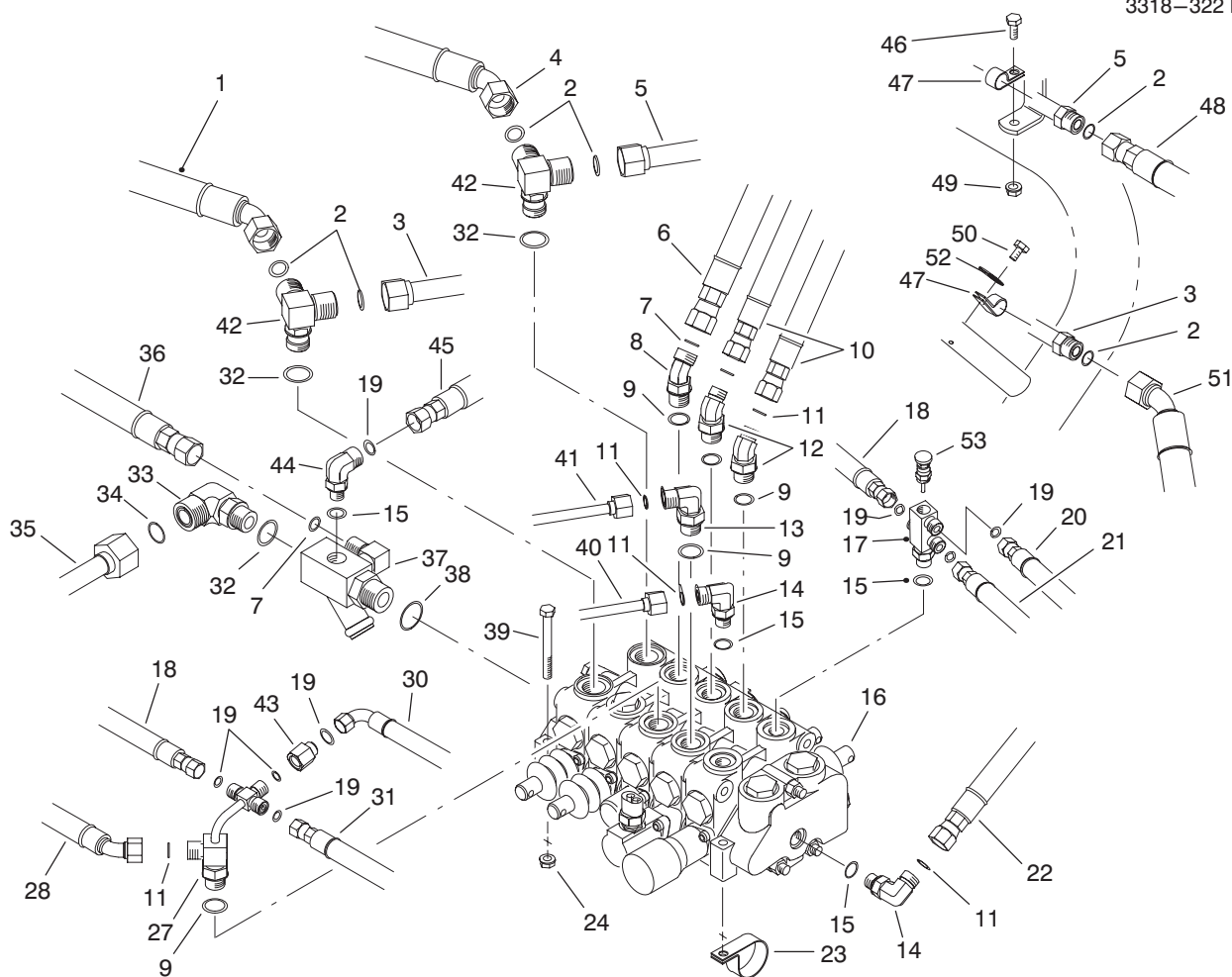


T-1287

## 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

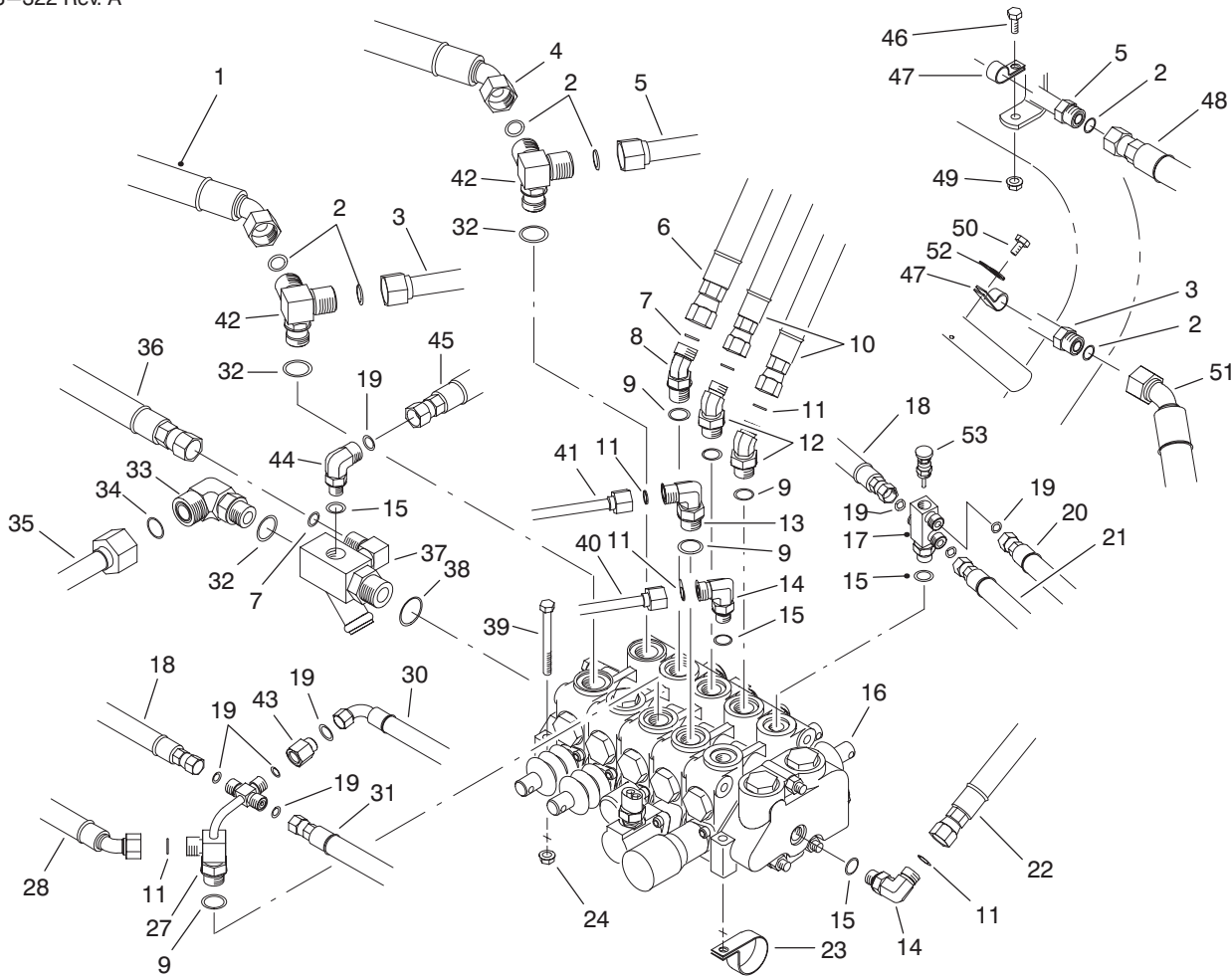
Ref. No.	Part No.	Description	No. Used
24	83-0540	Pedal - Traction	1
25	74-9100	Pad - Forward Pedal	1
26	256-155	Bushing - Flange	2
27	32128-20	Nut - Flange Lock	1
28	32121-45	Pin - Roll	1
29	83-0630	Arm - Traction Pivot	1
30	2411-42	Joint - Ball L.H. Thread	1
31	3220-20	Nut - Jam L.H. Thread	1
32	83-0580	Rod - Traction Control	1
33	2411-43	Joint - Ball R.H. Thread	1
34	77-0480	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	Ref. No.	Part No.	Description	No. Used
1	83-2450	Hose – Hydraulic	1	22	83-1170	Hose – Hydraulic	1
2	237-65	Seal – O-Ring	6	23	304-61	Clamp – R	1
3	70-7130	Tube Assy. (Incl. Ref. #2)	1	24	32128-20	Nut – Flange Lock	3
4	83-2460	Hose – Hydraulic	1	27	83-1670	Fitting – Special (Incl. Ref. #9, 11 & 19)	1
5	83-1200	Tube Assy. (Incl. Ref. #2)	1	28	74-3830	Hose – Hydraulic	1
6	83-1180	Hose – Hydraulic	1	30	83-1680	Hose – Hydraulic	1
7	237-30	Seal – O-Ring	2	31	63-3850	Hose – Hydraulic	1
8	340-101	Fitting – Hydraulic 45° (Incl. Ref. #7 & 9)	1	32	237-80	Seal – O-Ring	3
9	237-79	Seal – O-Ring	4	33	340-16	Fitting – Hydraulic 90° (Incl. Ref. #32 & 34)	1
10	83-1190	Hose – Hydraulic	2	34	237-58	Seal – O-Ring	1
11	237-22	Seal – O-Ring	6	35	63-4040	Tube – Hydraulic	1
12	340-138	Fitting – Hydraulic 45° (Incl. Ref. #9 & 11)	2	36	63-3840	Hose – Hydraulic	1
13	340-18	Fitting – Hydraulic 90° (Incl. Ref. #9 & 11)	1	37	68-5260	Fitting – Manifold Tee (Incl. Ref. #7 & 38)	1
14	340-77	Fitting – Hydraulic 90° (Incl. Ref. #11 & 15)	2	38	237-81	Seal – O-Ring	1
15	237-42	Seal – O-Ring	4	39	322-14	Screw – Cap Hex. Hd.	3
16	84-2203	Control Valve Assembly	1	40	63-4020	Tube – Hydraulic	1
17	93-2555	Fitting – Valve Body (Incl. Ref. #15 & 19)	1	41	63-4030	Tube – Hydraulic	1
18	92-9767	Hose – Hydraulic	2	42	63-4050	Fitting – Tee (Incl. Ref. #2 & 32)	2
19	237-21	Seal – O-Ring	6	43	71-0990	Orifice (Incl. Ref. #19)	1
20	88-9700	Hose – Hydraulic	1	44	340-137	Fitting – Hydraulic 45° (Incl. Ref. #15 & 19)	1
21	83-1690	Hose – Hydraulic	1	45	83-1350	Hose – Hydraulic	1



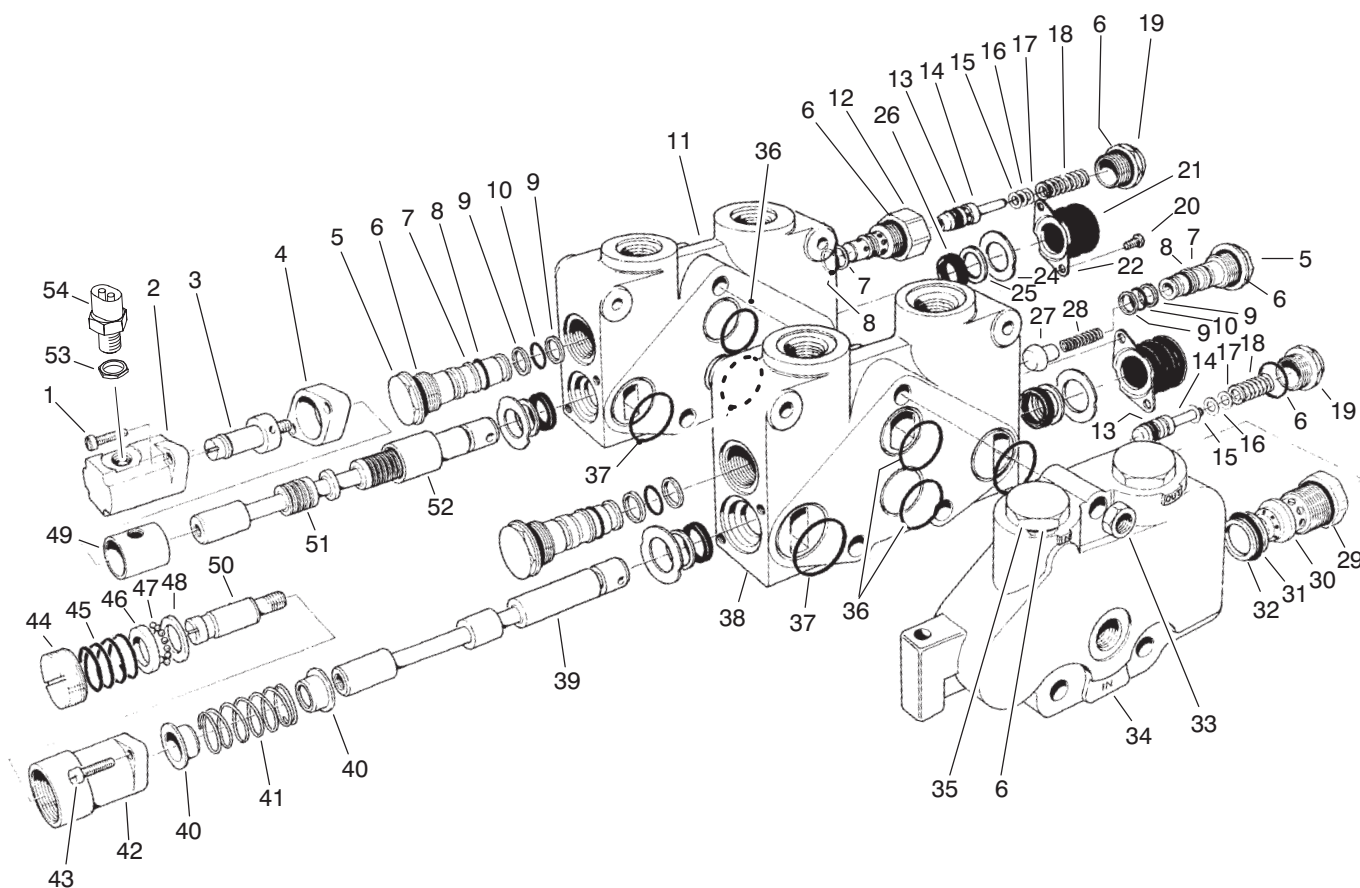
T-1294

## CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
46	3234-4	Screw – Cap Hex. Hd.	1
47	2412-41	Clamp-R	2
48	70-7150	Hose – Hydraulic	1
49	3296-16	Nut – Lock	1
50	12-3270	Screw – Thread Forming	1

Ref. No.	Part No.	Description	No. Used
51	70-8610	Hose – Hydraulic	1
52	3256-22	Washer – Flat	1
53	93-2554	Valve – Needle	1
*	93-2556	Needle Valve Assembly (Incl. Ref. #15, 17, 19 & 53)	1

\*Not Illustrated



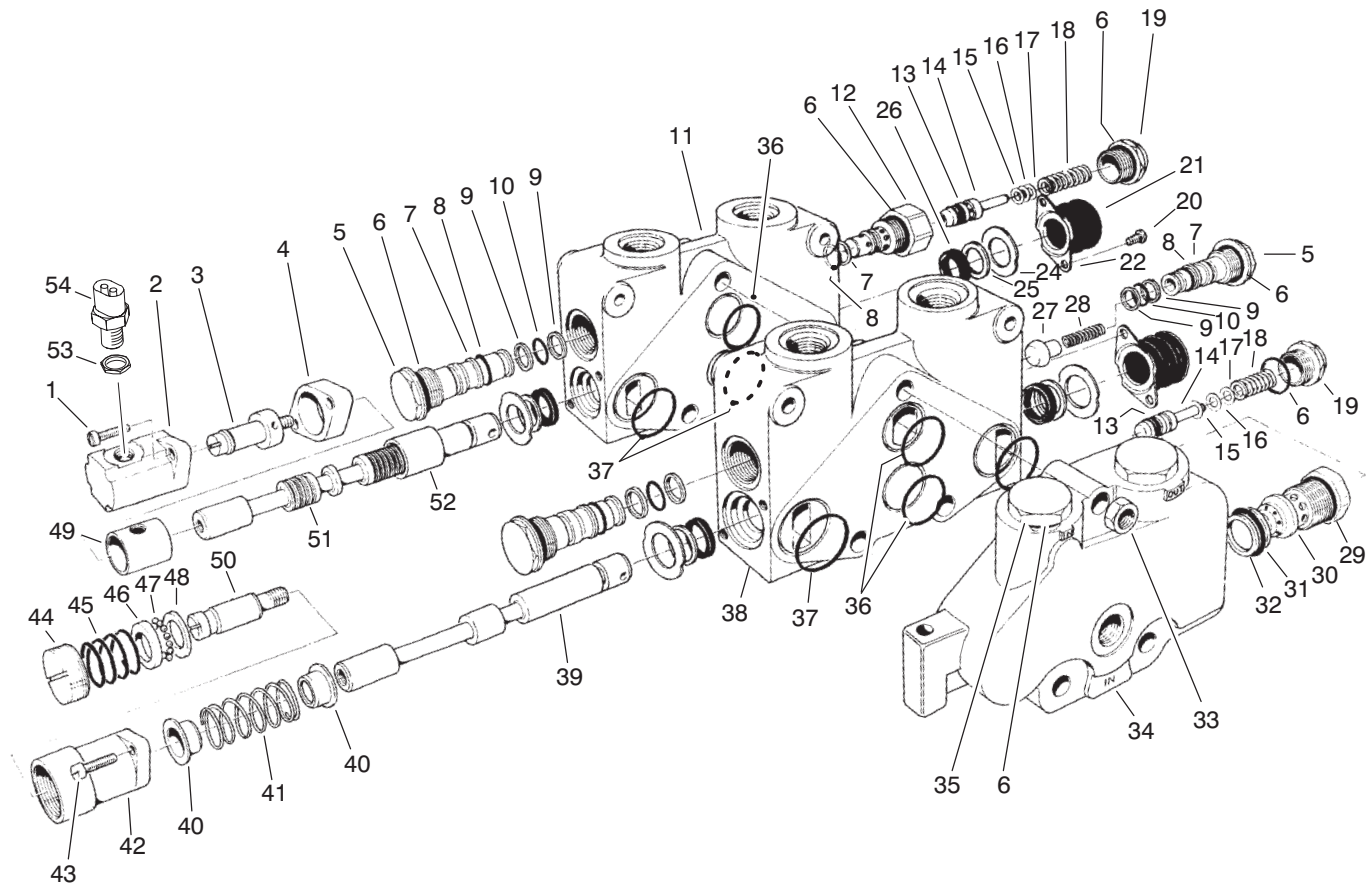
T-1318A

## 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



T-1318A

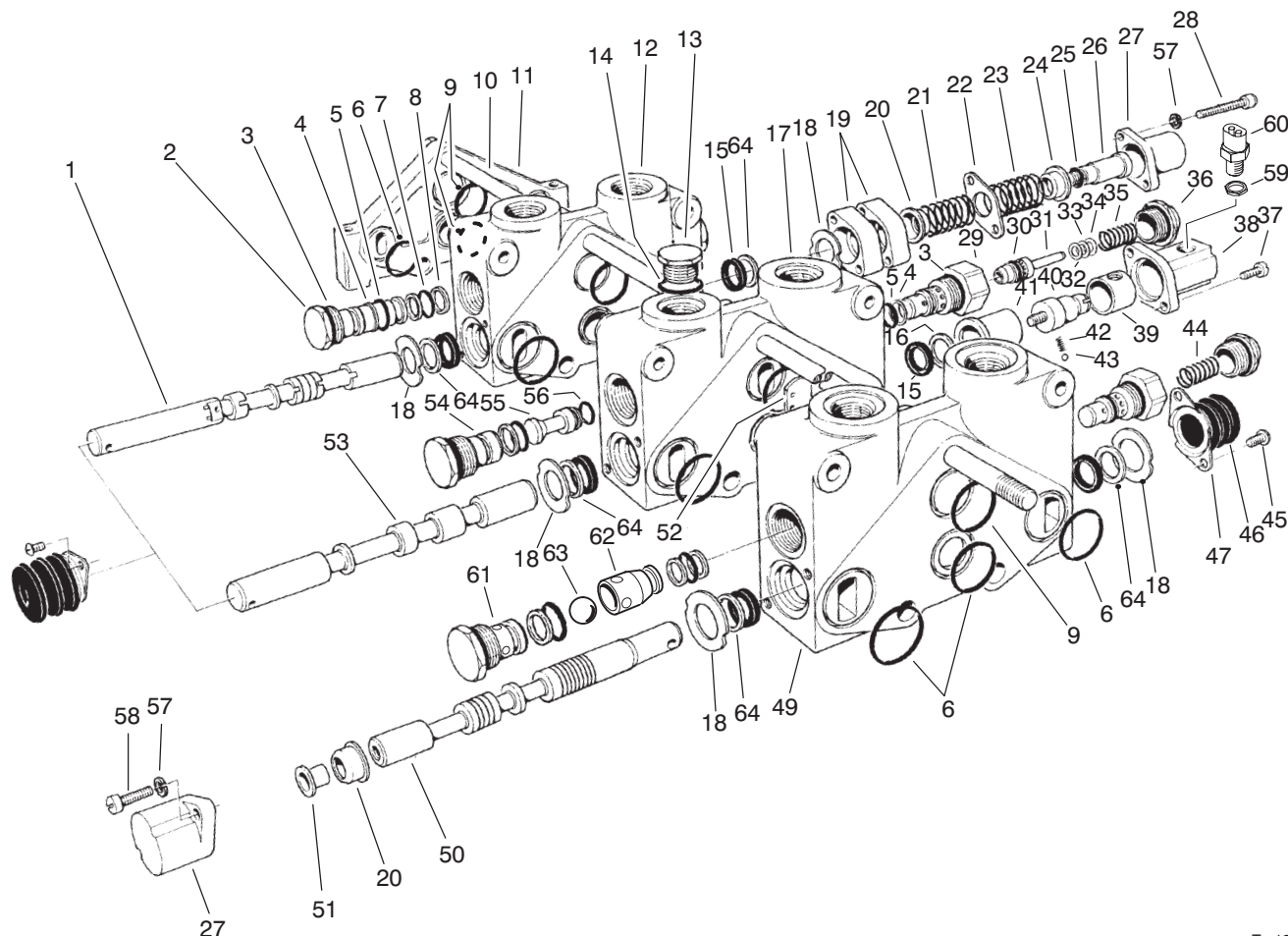
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
49	353-728	Sleeve	1
50	353-762	Spud - Detent Out (Incl. Ref. #44)	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. #3 & 40-49)	1

Ref. No.	Part No.	Description	No. Used
*	353-839	Positioner - DI (SPL) Assy. (Incl. Ref. #1, 3-5, 50 & 52)	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



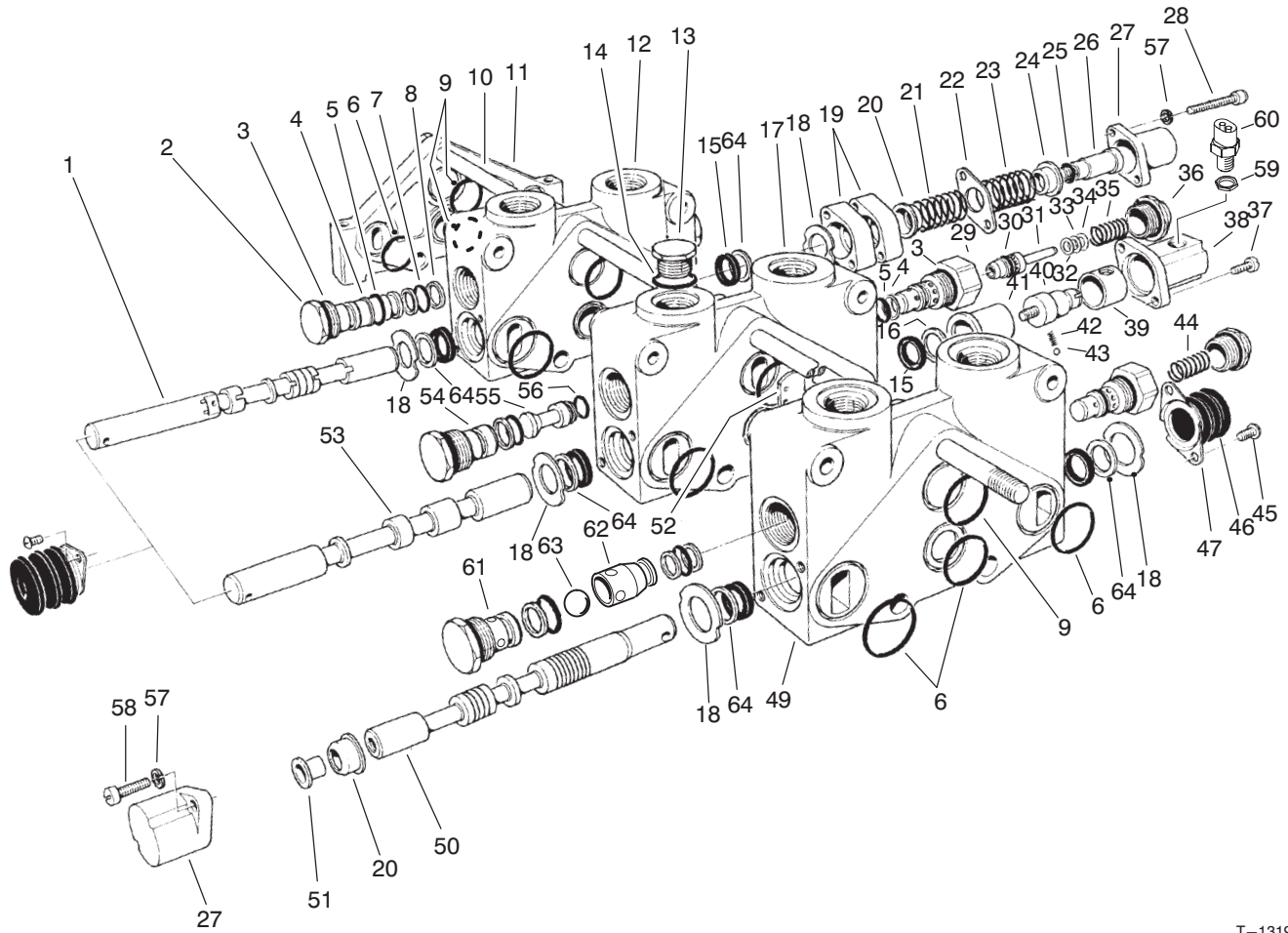
T-1319A

## 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

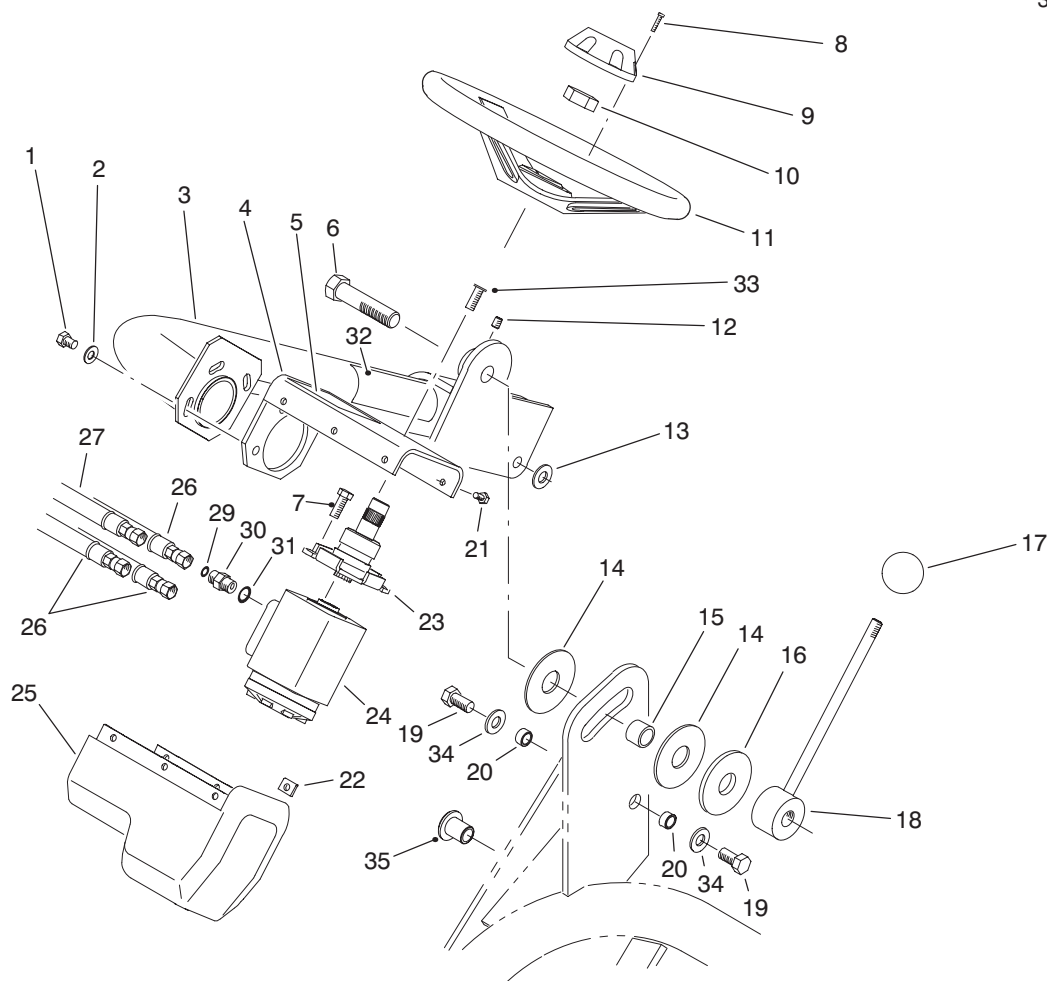
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

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

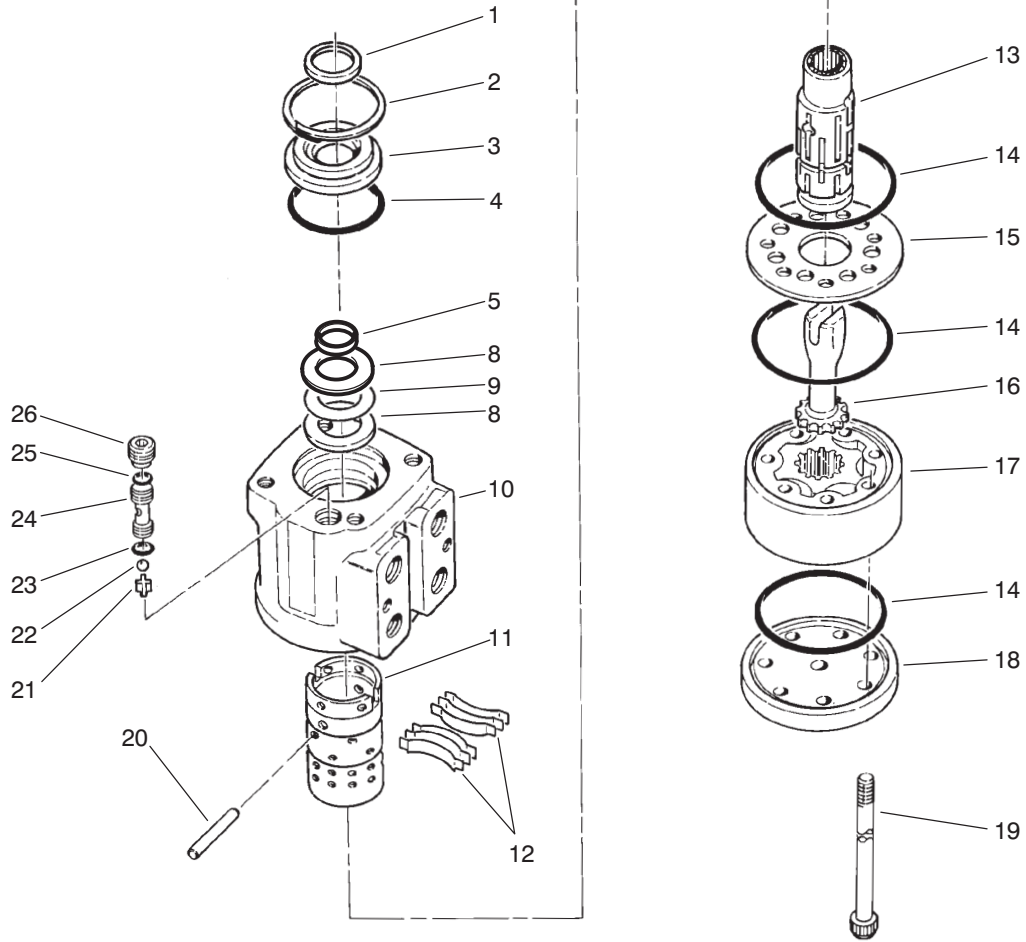
†Parts Available as Assemblies Listed as (\*Not Illustrated) on This Page



T-1291

## STEERING ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3274-80	Screw - Cap Hex. Hd.	3	19	325-4	Screw - Cap Hex. Hd.	2
2	3256-80	Washer - Flat	3	20	47-2890	Bushing - Sleeve	2
3	83-0650	Arm - Steering	1	21	3274-39	Screw - Cap Hex. Hd.	6
4	83-0780	Support - Steering Valve	1	22	3290-277	Nut - Speed	6
5	93-8063	Decal - Warning	1	23	83-1420	Column - Steering	1
5	83-2520	Decal - Warning (Japanese)	1	24	92-8690	Steering - Valve Assembly	1
6	83-0750	Screw - Cap Hex. Hd. L.H.	1	25	83-0810	Cover - Steering Valve	1
7	323-4	Screw - Cap Hex. Hd.	2	26	83-1350	Hose - Hydraulic	2
8	32144-21	Screw - Round Hd.	2	27	83-1360	Hose - Hydraulic	1
9	68-5140	Cap - Steering Wheel	1	28	83-1370	Hose - Hydraulic	1
10	47-6990	Nut - Steering Wheel	1	29	237-21	Seal - O-Ring	4
11	68-5130	Steering Wheel Assembly (Incl. Ref. #8 & 9)	1	30	340-1	Fitting - Hydraulic Straight (Incl. Ref. #29 & 31)	4
12	3246-3	Screw - Set	1	31	237-42	Seal - O-Ring	4
13	65-6390	Washer - Thrust	1	32	93-8068	Decal - Steering Arm	1
14	83-0740	Disc - Friction	2	32	83-2510	Decal - Steering Arm (Japanese)	1
15	83-0730	Spacer - Lockup	1	33	3274-63	Screw - Hex. Socket Hd.	2
16	83-0760	Plate - Lockup	1	34	3256-26	Washer - Flat	2
17	233-48	Knob	1	35	83-1700	Bushing - Flange	1
18	83-0700	Handle - Lockup	1				



T-1442

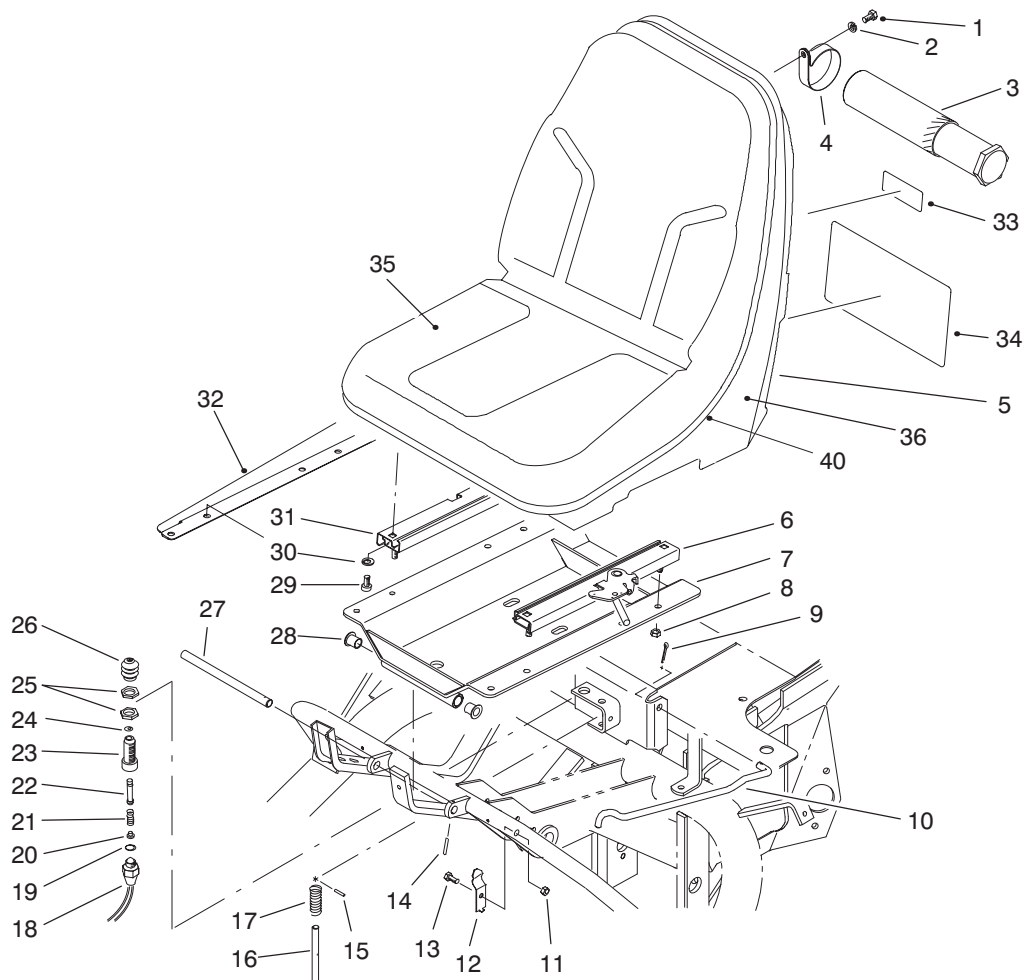
## POWER STEERING VALVE NO. 92-8690

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

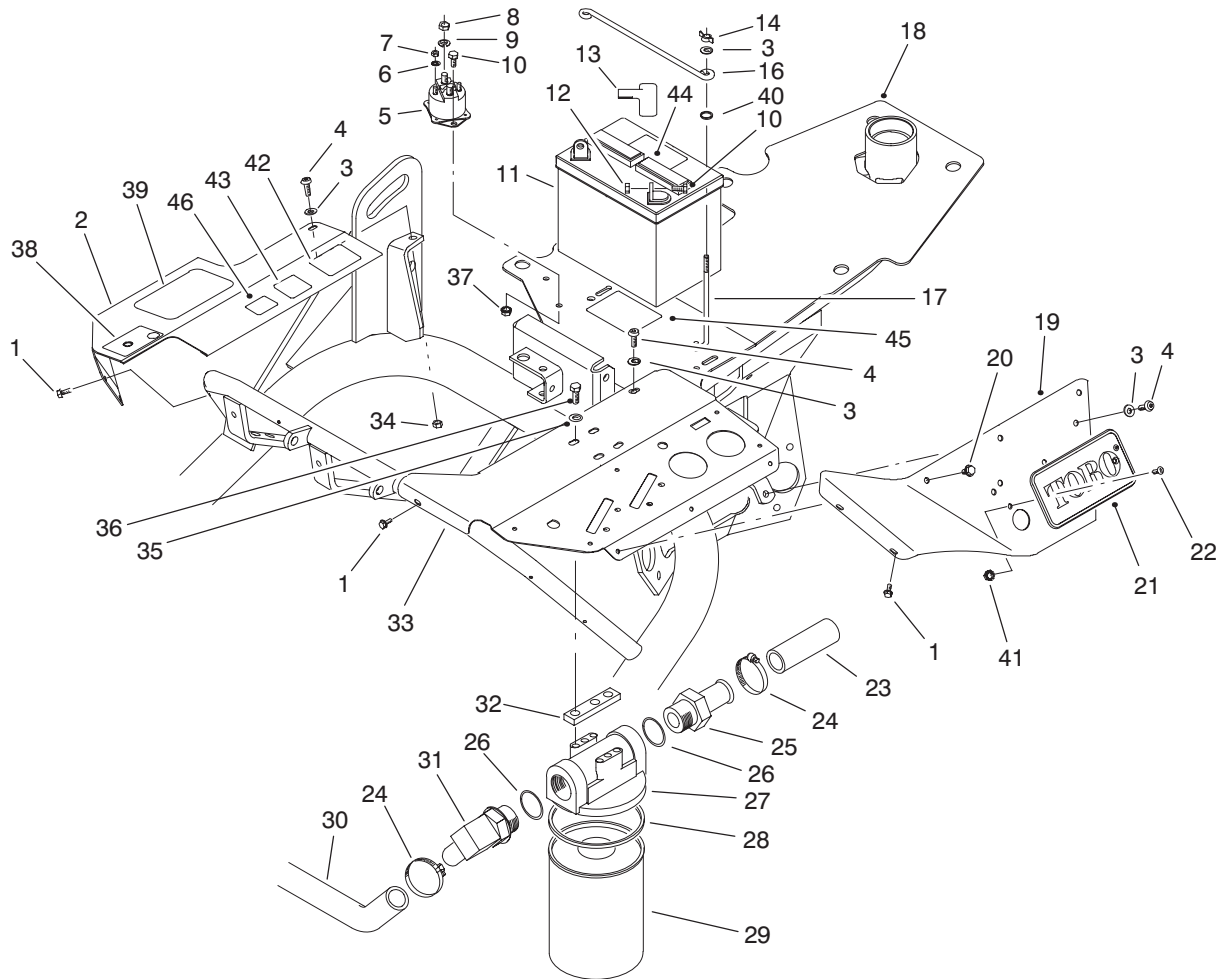


T-1290A

## SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-2	Screw - Cap Hex. Hd.	2	26	43-8870	Boot - Switch	1
2	3253-4	Washer - Lock	2	27	49-5880	Shaft - Seat Support	1
3	74-0720	Tube - Manual	1	28	256-155	Bushing - Flange	2
4	2412-133	Clamp - R	2	29	3274-12	Screw - Hex. Socket Hd.	4
5	92-1180	Seat Assembly (Incl. Ref. #35, 36 & 40)	1	30	3256-23	Washer - Flat	4
6	51-0790	Adjuster - Seat	1	31	51-0780	Slider - Seat	1
7	83-1270	Seat Support Assembly (Incl. Ref. #28)	1	32	83-1840	Cover - R.H.	1
8	3296-29	Nut - Lock	4	33	93-8067	Decal - Oil	1
9	3272-11	Pin - Cotter	1	33	84-3180	Decal - Oil (Japanese)	1
10	68-5100	Rod - Seat Prop	1	34	83-1780	Decal - Service	1
11	3296-16	Nut - Lock	1	34	84-9240	Decal - Service (Spanish)	1
12	68-5310	Clip - Seat Rod	1	34	84-9250	Decal - Service (French)	1
13	321-3	Screw - Cap Hex. Hd.	1	34	84-9260	Decal - Service (German)	1
14	32121-45	Pin - Roll	1	34	84-9270	Decal - Service (Swedish)	1
15	3284-3	Pin - Groove	1	34	84-9280	Decal - Service (Italian)	1
16	51-0350	Pin - Seat Spring	1	34	93-7257	Decal - Service (Portuguese)	1
17	3-6685	Spring - Compression	1	34	93-7258	Decal - Service (Norwegian)	1
18	72-4320	Switch - Ball	1	34	93-7259	Decal - Service (Finnish)	1
19	237-30	Seal - O-Ring	1	34	93-7260	Decal - Service (Danish)	1
20	43-8610	Seat - Ball	1	34	93-7261	Decal - Service (Dutch)	1
21	43-8600	Spring - Compression	1	34	83-2490	Decal - Service (Japanese)	1
22	43-8860	Plunger - Switch	1	35	92-6533	Kit - Cushion	1
23	43-8620	Guide - Switch	1	36	92-6534	Shell	1
24	237-7	Seal - O-Ring	1	40	351-78	Edging	1
25	218-461	Nut - Hex.	2	*	43-9071	Seat Switch Assembly (Incl. Ref. #18-26)	1

\*Not Illustrated

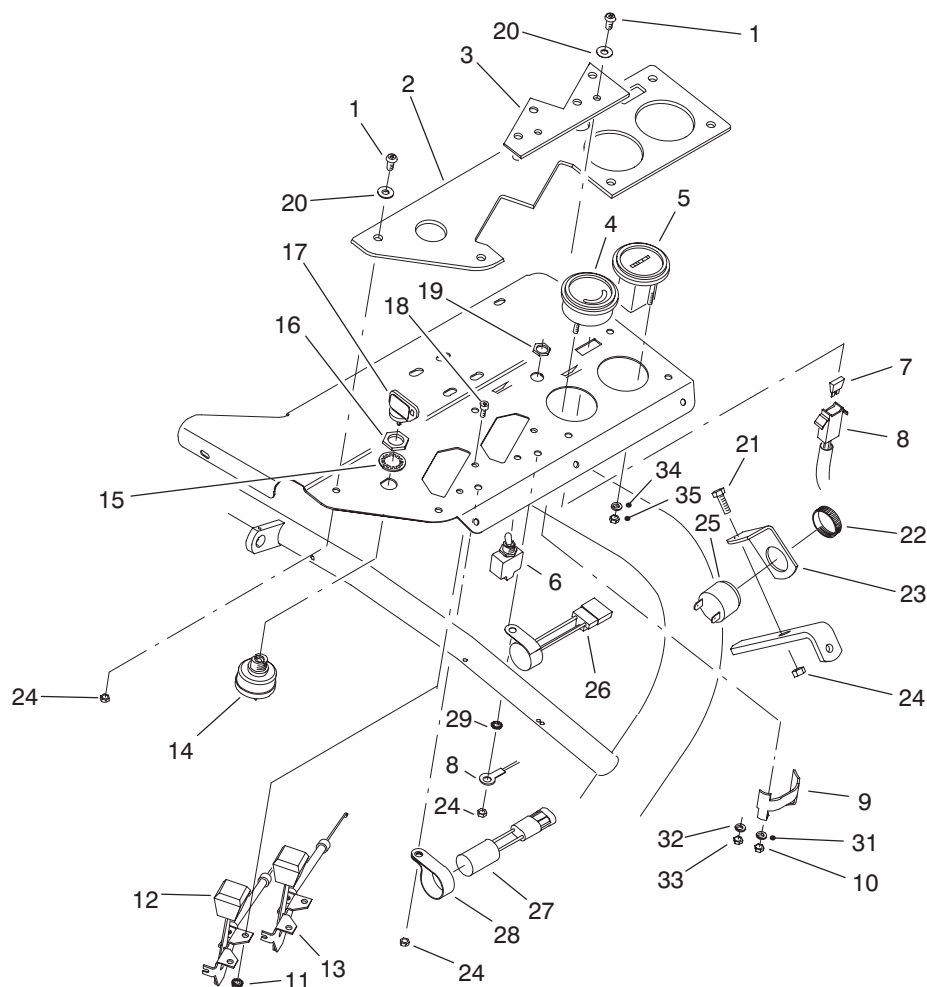


T-1295B

## FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-76	Screw - Self Tapping	5
2	94-2694	Cover - R.H.	1
3	3256-22	Washer - Flat	5
4	3274-64	Screw - Hex. Socket Hd.	3
5	28-4210	Solenoid - Starter	1
6	3254-1	Washer - Lock	2
7	3219-14	Nut - Hex.	2
8	3218-13	Nut - Jam	2
9	3253-4	Washer - Lock	2
10	321-3	Screw - Cap Hex. Hd.	4
11	28-1400	Battery	1
12	3217-5	Nut - Hex.	2
13	28-8080	Boot Terminal	1
14	32103-12	Nut - Wing	2
16	72-4790	Hold-Down - Battery	1
17	56-7720	Bolt - Battery	2
18	92-9164	Frame Assembly	1
19	83-0840	Fender - L.H.	1
20	46-8560	Screw - Self Taping	3
21	61-3310	Plate - Logo	1
22	3290-470	Screw - Flat Hd.	2
23	83-1430	Hose - Hydraulic	1
24	2412-34	Clamp - Hose	2
25	353-563	Fitting - Hydraulic Straight (Incl. Ref. #26)	1

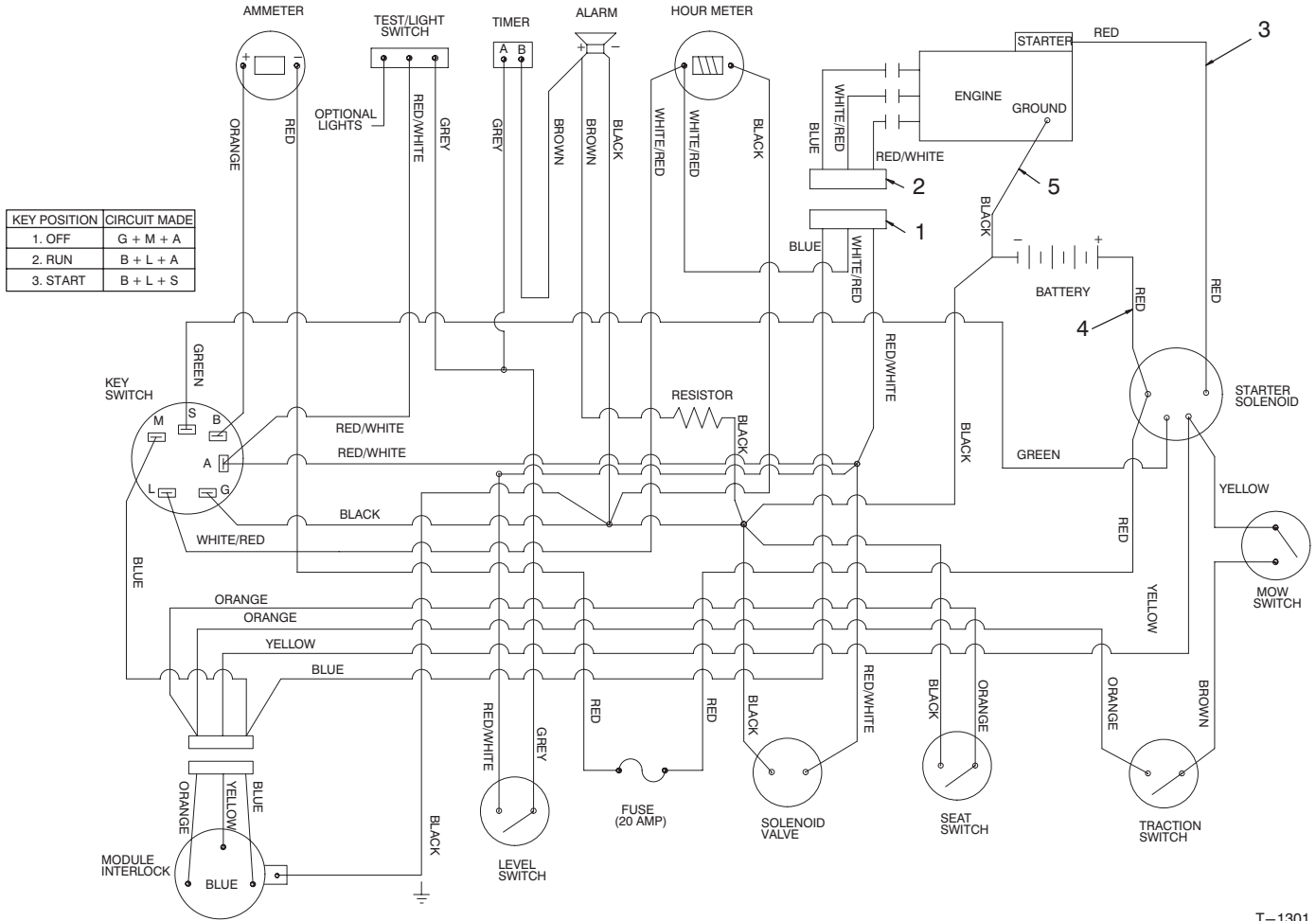
Ref. No.	Part No.	Description	No. Used
26	237-101	Seal - O-Ring	2
27	44-5560	Head - Oil Filter	1
28	72-3850	Seal - Filter	1
29	74-3570	Filter - Hydraulic Oil (Incl. Ref. #28)	1
30	68-5880	Hose - Hydraulic	1
31	353-564	Fitting - Hydraulic 90° (Incl. Ref. #26)	1
32	27-2380	Spacer	2
33	83-0830	Panel - Control Upper	1
34	3296-16	Nut - Lock	3
35	3256-23	Washer - Flat	4
36	322-4	Screw - Cap Hex. Hd.	4
37	32149-2	Nut - Keps	2
38	93-8065	Decal - Traction	1
38	83-2540	Decal - Traction (Japanese)	1
39	67-1300	Decal - TORO	1
40	237-143	Grommet	2
41	32149-7	Nut - Keps	2
42	92-5524	Decal - Noise Rating	1
43	63-9920	Decal - EEC	1
44	93-7276	Decal - Danger	1
45	93-6668	Decal - Danger	1
46	93-7252	Decal - C.E. Mark	1



T-1296B

## CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3274-69	Screw - Hex. Socket Hd.	8	16	218-461	Nut - Hex.	1
2	93-8061	Plate - Control	1	17	63-8360	Key - Ignition	1
2	83-2570	Plate - Control (Japanese)	1	18	3273-26	Screw - Hex. Socket Hd.	4
3	83-2030	Plate - Filler	1	19	218-498	Nut - Hex.	2
4	83-0820	Gauge - Ammeter (Incl. Ref. #9-10 & 31-33)	1	20	3256-1	Washer - Flat	8
5	66-2950	Gauge - Hourmeter (Incl. Ref. #34 & 35)	1	21	321-4	Screw - Cap Hex. Hd.	1
6	83-1660	Switch Assembly (Incl. Ref. #19)	1	22		Retainer - Alarm	1
7	218-594	Fuse - 20 Amp	1	23	83-1530	Bracket - Alarm	1
8	83-1100	Harness - Wire (Main)	1	24	3296-16	Nut - Lock	9
9	94-6960	Clamp - Mounting	1	25	80-9330	Audio Alarm Assembly (Incl. Ref. #22)	1
10	3217-27	Nut - Hex.	2	26	28-7890	Module - Interlock	1
11	3296-27	Nut - Lock	4	27	83-2280	Timer - Relay	1
12	83-0030	Control - Throttle	1	28	2412-39	Clamp - R	1
13	83-0040	Control - Choke	1	29	3255-7	Washer - Lock, Int. Tooth	1
14	83-0020	Ignition Switch Assembly (Incl. Ref. #15-16)	1	31	3254-10	Washer - Lock, Int. Tooth	2
15	3254-5	Washer - Lock	1	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

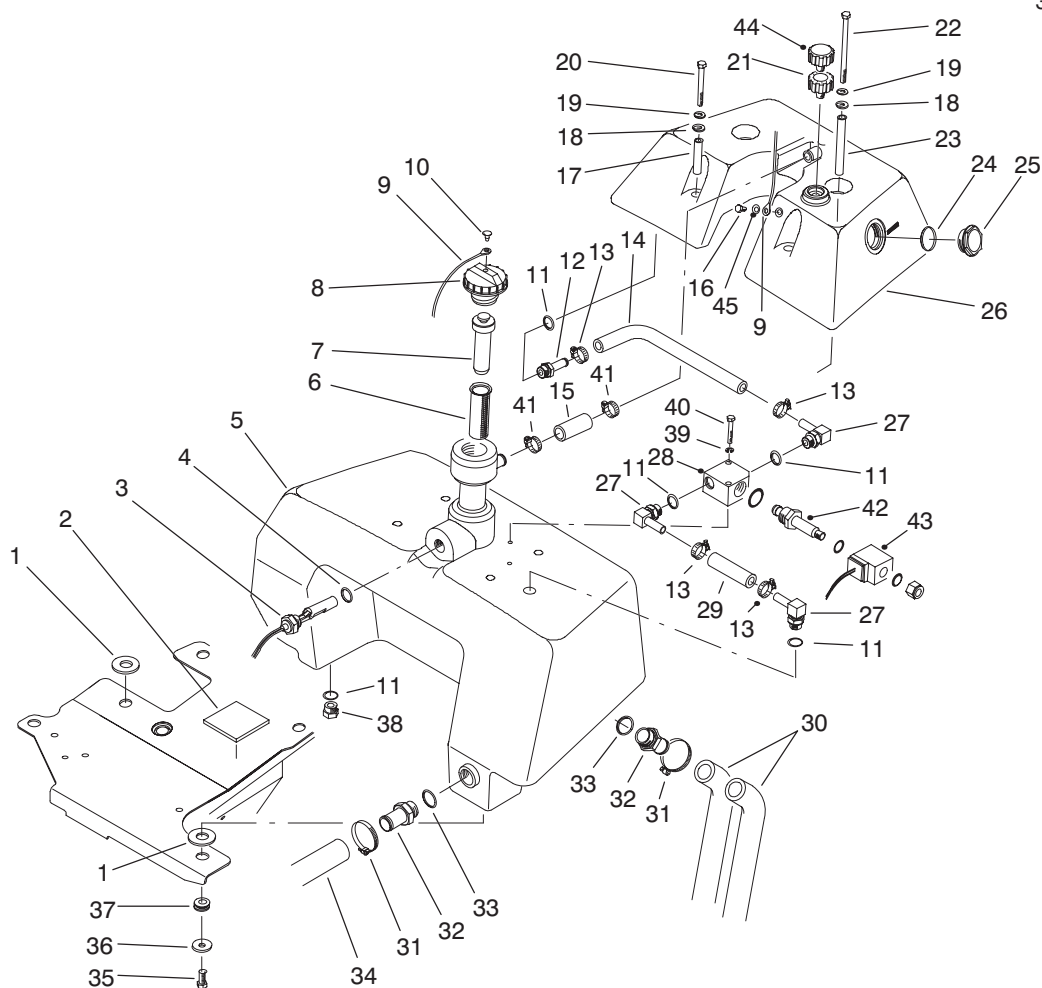


T-1301

## 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

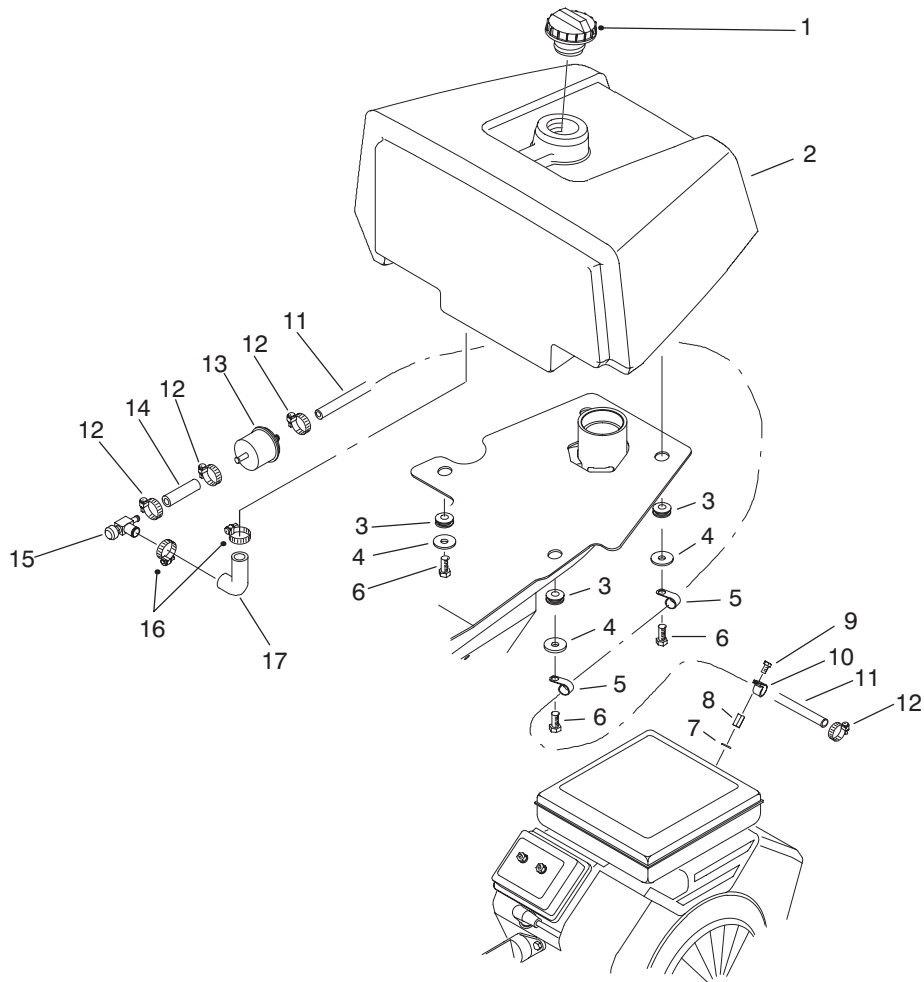
Ref. No.	Part No.	Description	No. Used
4	83-2420	Wire - Solenoid-Battery	1
5	83-1150	Wire - Engine Ground	1



T-1289

## HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	83-2400	Spacer - Tank	2	25	83-2250	Gauge - Sight (Incl. Ref. #24)	1
2	83-2390	Pad - Tank	1	26	83-2100	Tank - Auxiliary Hydraulic	1
3	83-1450	Sensor - Oil Level	1	27	354-120	Fitting - Hydraulic 90° (Incl. Ref. #11)	3
4	237-80	Seal - O-Ring	1	28	83-1460	Solenoid Valve Assembly (Incl. Ref. #42 & 43)	1
5	92-8966	Reservoir - Hydraulic	1	29	83-2080	Hose - Valve-Tank	1
6	83-1520	Screen - Filler	1	30	83-0910	Hose - Hydraulic	2
7	92-4063	Plug - Filler Cap	1	31	2412-34	Clamp - Hose	3
8	93-7160	Cap - Hydraulic Reservoir (Incl. Ref. #9 & 10)	1	32	83-0870	Fitting - Hydraulic Straight (Incl. Ref. #33)	3
9	75-0540	Tether - Cap	1	33	237-177	Seal - O-Ring	3
10	2410-73	Retainer - Tether	1	34	83-1430	Hose - Hydraulic	1
11	237-79	Seal - O-Ring	5	35	323-6	Screw - Cap Hex. Hd.	3
12	354-121	Fitting - Hydraulic Straight (Incl. Ref. #11)	1	36	63-8410	Washer - Flat	3
13	2412-36	Clamp - Hose	4	37	240-11	Grommet	3
14	83-2070	Hose - Valve	1	38	353-550	Plug - Hydraulic (Incl. Ref. #11)	1
15	83-2090	Hose - Overflow	1	39	3253-3	Washer - Lock	2
16	321-2	Screw - Cap Hex. Hd.	1	40	321-11	Screw - Cap Hex. Hd.	2
17	83-1550	Spacer - Tank (Short)	2	41	2412-141	Clamp - Hose	2
18	83-1470	Washer - Neoprene	4	42	83-2000	Spool - Valve	1
19	3256-23	Washer - Flat	4	43	83-2010	Coil - Valve	1
20	322-14	Screw - Cap Hex. Hd.	2	44	68-6150	Breather	1
21	92-8020	Adapter - Breather	1	45	3256-22	Washer - Flat	1
22	322-29	Screw - Cap Hex. Hd.	2				
23	83-1560	Spacer - Tank (Long)	2				
24	237-123	Seal - O-Ring	1				



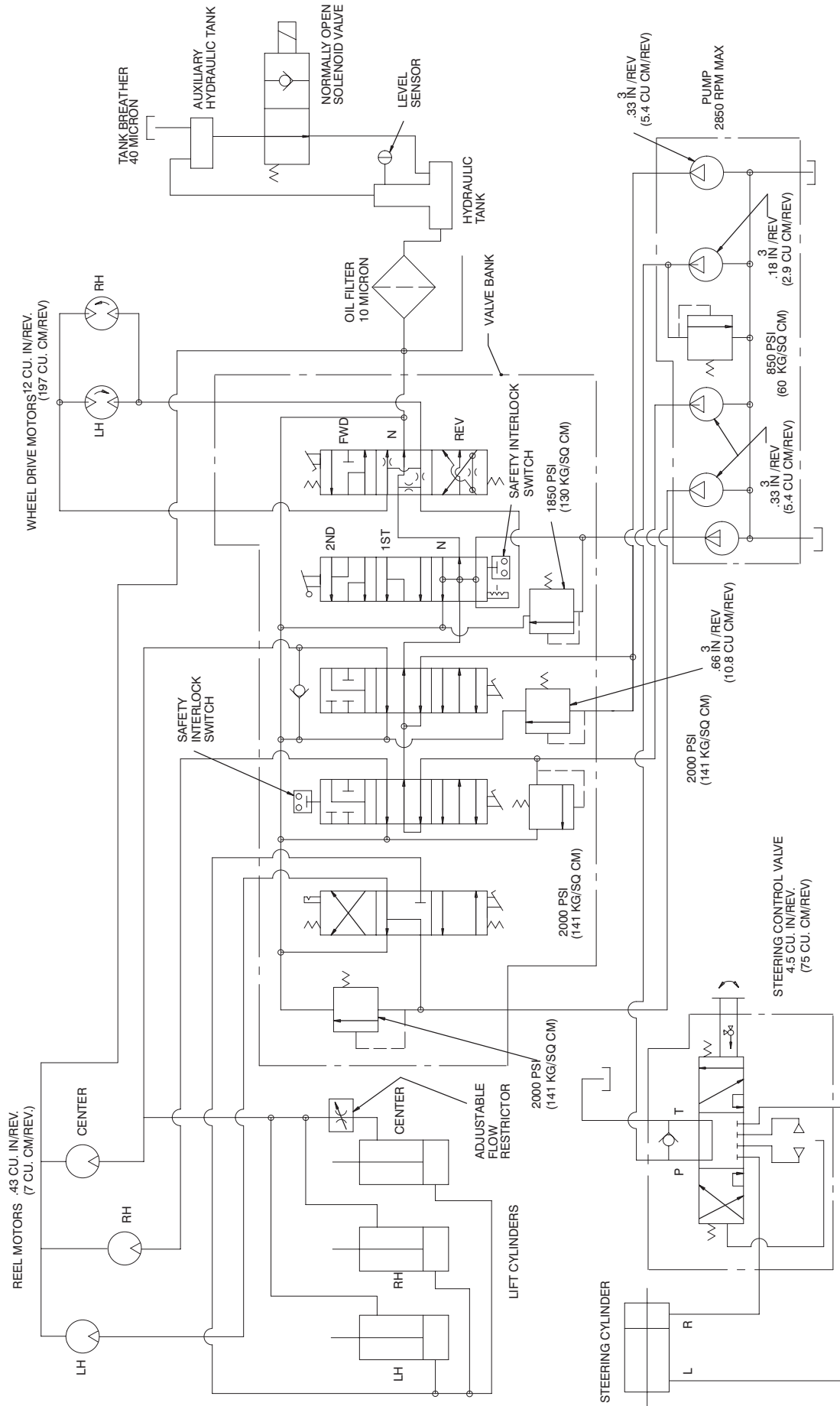
T-1317

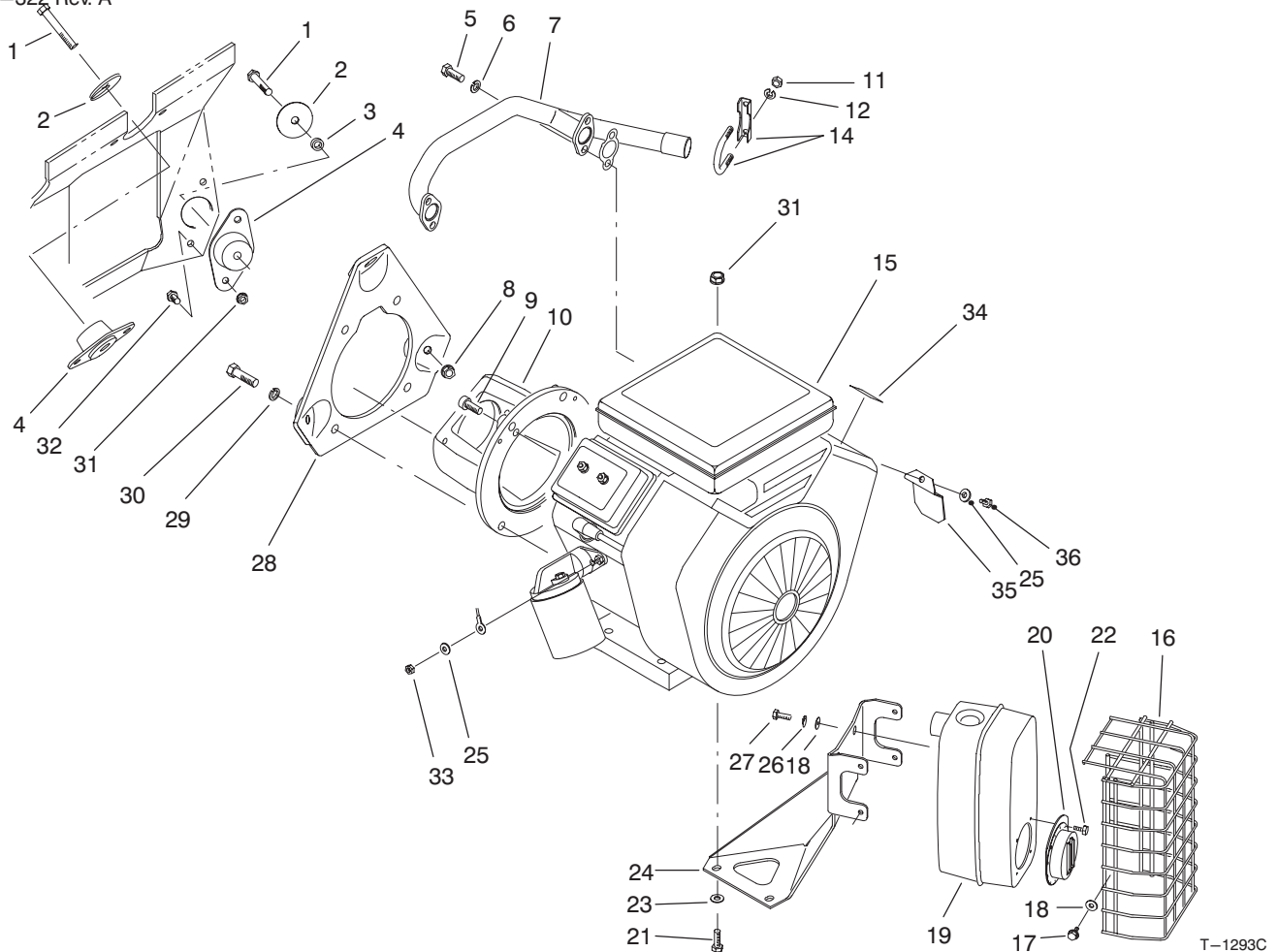
## FUEL TANK ASSEMBLY

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





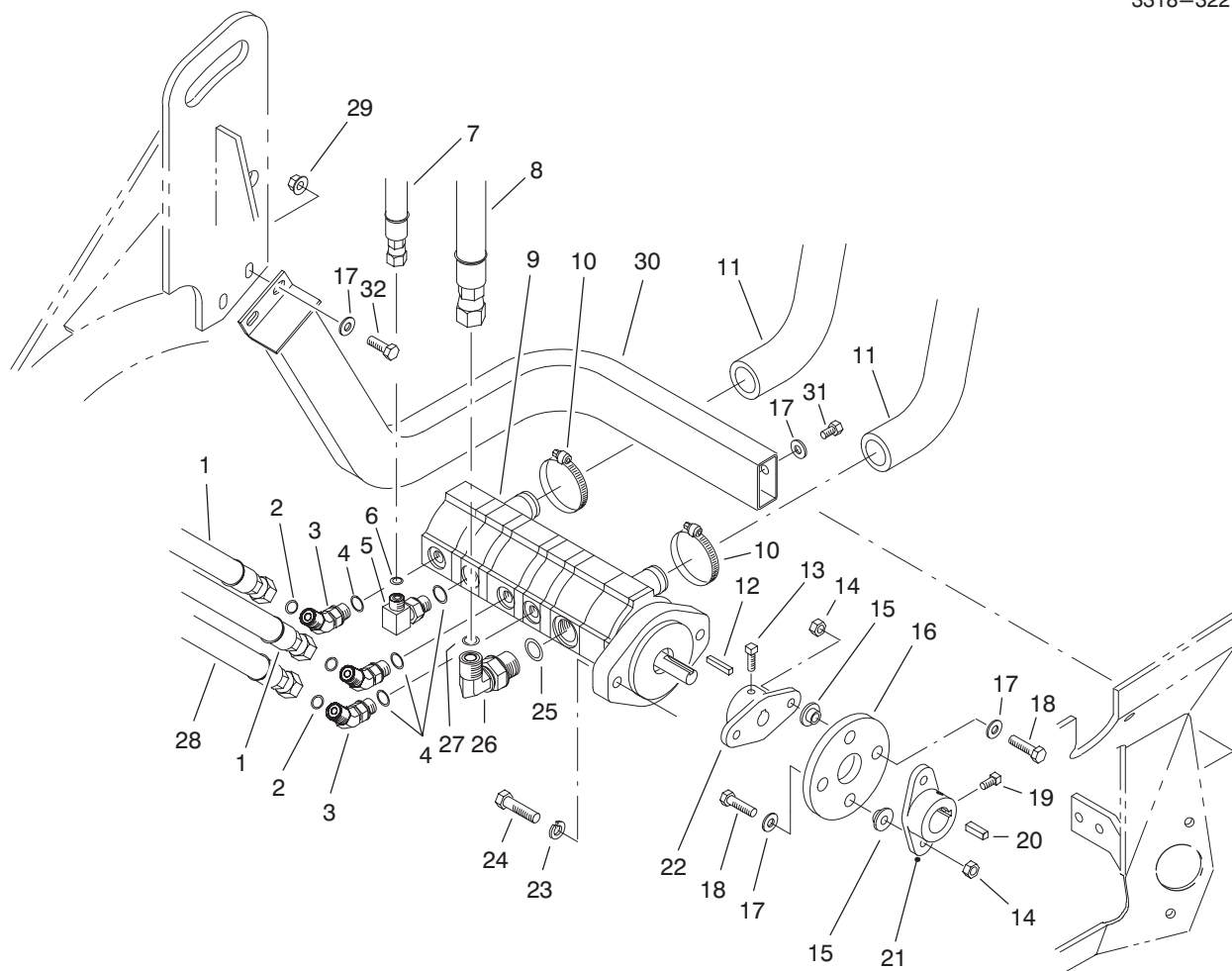
T-1293C

## 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
6		Washer - Lock	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 & 6)	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

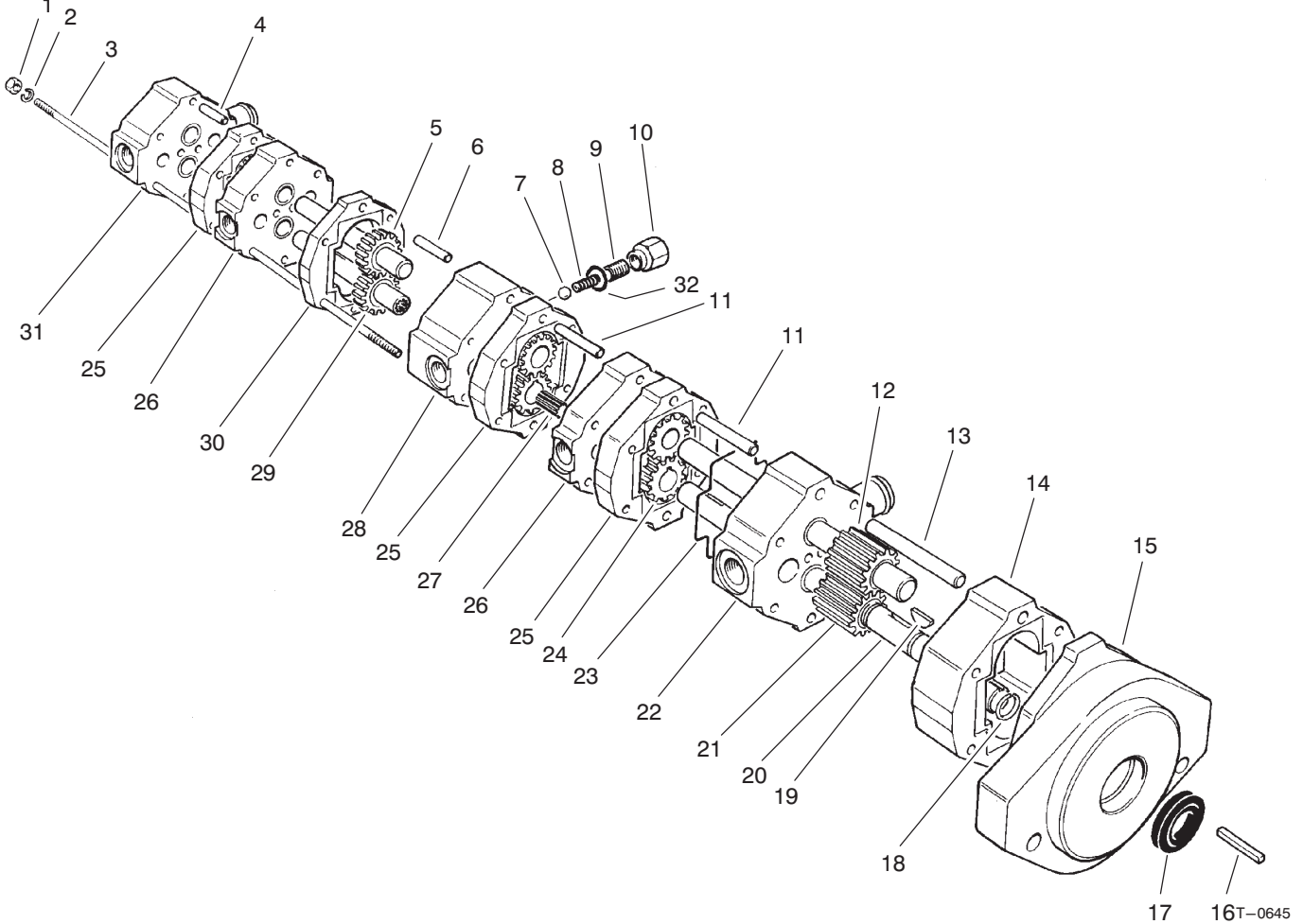


T-1292

## 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)	2
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

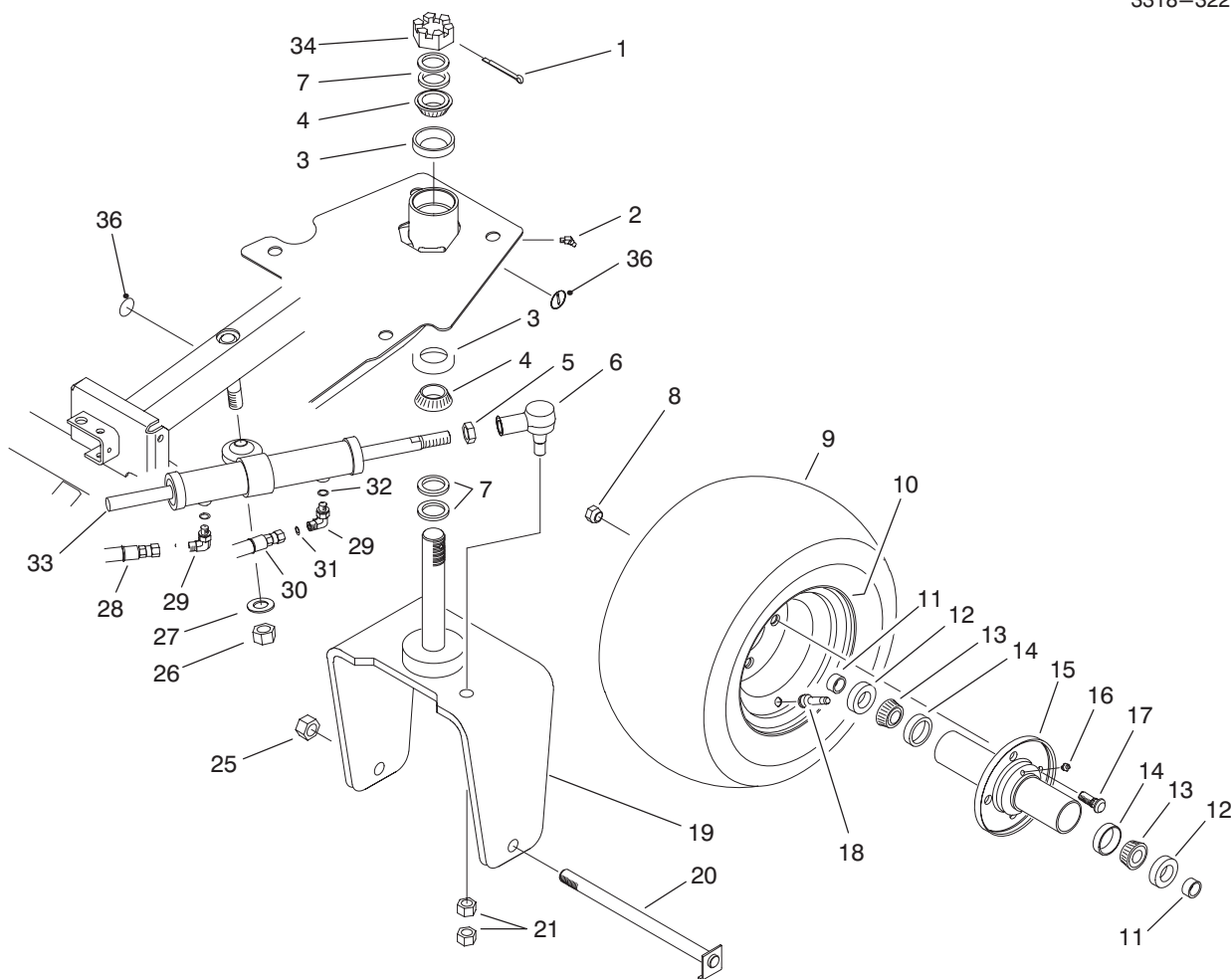
Ref. No.	Part No.	Description	No. Used
16	44-2230	Coupling - Rubber	1
17	3256-23	Washer - Flat	8
18	322-6	Screw - Cap Hex. Hd.	4
19	3241-2	Screw - Set Square Hd.	2
20	10-7070	Key - Square	1
21	27-1960	Hub - Engine	1
22	27-1970	Hub - Pump	1
23	3253-21	Washer - Lock	2
24	323-8	Screw - Cap Hex. Hd.	2
25	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

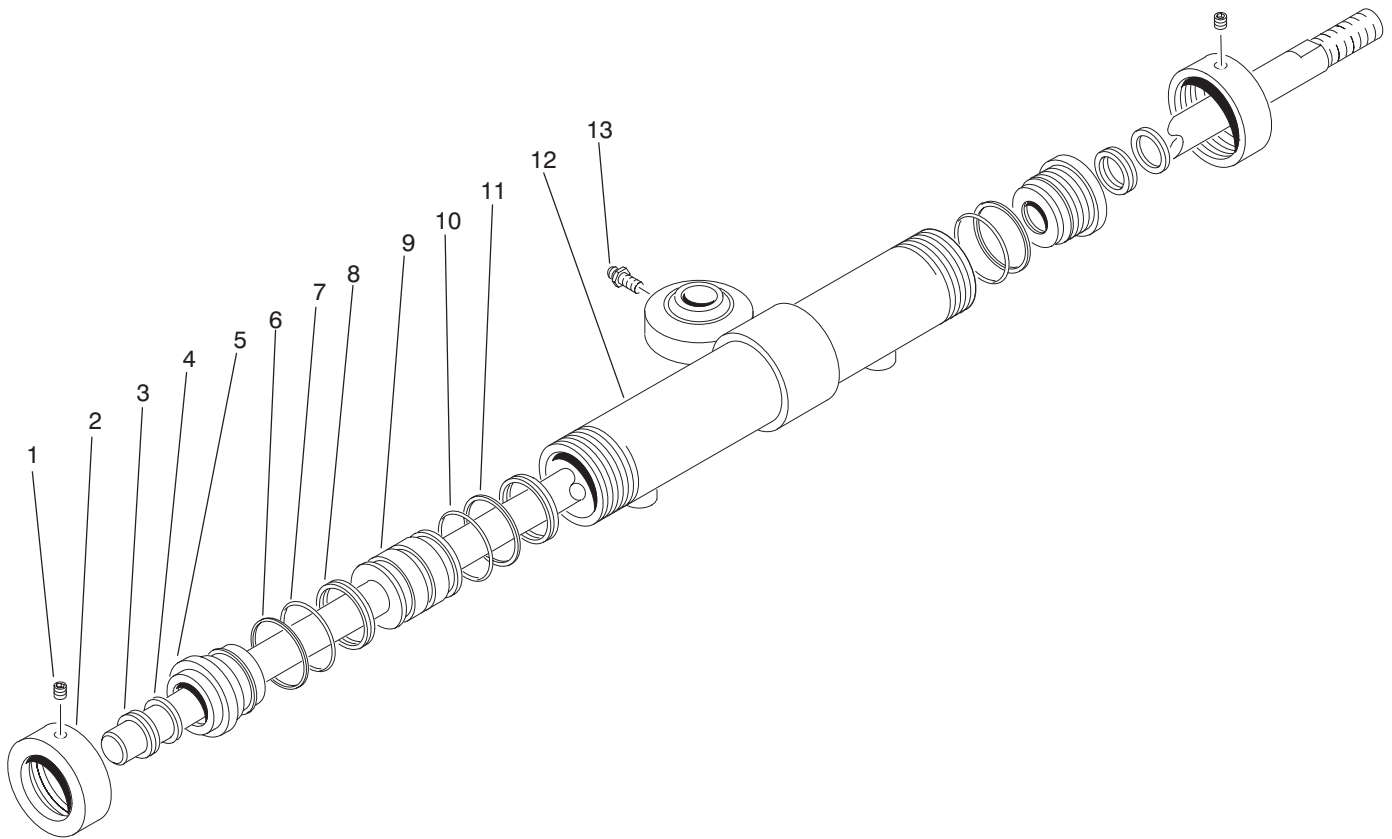
Ref. No.	Part No.	Description	No. Used
18	353-886	Ring - Retaining	2
19	353-884	Key - Woodruff	4
20	92-9772	Shaft - Drive	1
21	92-9773	Gear - 66B	1
22	354-3	Bearing Plate Assembly	1
23	353-922	Seal - Ring	10
24	353-967	Gear - 33B	6
25	353-969	Plate - Gear 33B	3
26	353-923	Bearing Plate Assembly	2
27	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	Ref. No.	Part No.	Description	No. Used
1	3272-37	Pin - Cotter	1	18	232-24	Valve Stem w/Cap	1
2	302-11	Fitting - Grease	1	19	93-2524	Fork - Castor	1
3	254-61	Cup - Bearing	2	20	5-3934	Bolt - Castor	1
4	254-70	Cone - Bearing	2	21	3220-6	Nut - Jam	2
5	84-5300	Nut - Jam	1	25	3296-67	Nut - Lock	1
6	83-1640	Rod End Assembly	1	26	3217-12	Nut - Lock	1
7	18-6320	Washer - Steering	4	27	3256-28	Washer - Flat	1
8	242-50	Nut - Lug	4	28	83-1350	Hose - Hydraulic	1
9	28-3680	Tire	1	29	340-132	Fitting - Hydraulic 90° (Incl. Ref. #31 & 32)	2
10	217-60	Rim	1	30	83-1360	Hose - Hydraulic	1
11	74-3730	Spacer - Hub	2	31	237-21	Seal - O-Ring	2
12	253-111	Seal - Shaft	2	32	237-78	Seal - O-Ring	2
13	254-78	Cone - Bearing	2	33	83-2330	Hydraulic Cylinder Assy.	1
14	254-79	Cup - Bearing	2	34	32136-9	Nut - Hex. Slotted	1
15	75-9440	Hub - Wheel	1	36	58-6520	Decal - Grease	2
16	302-55	Fitting - Grease	1				
17	10-6830	Stud - Drive	4				



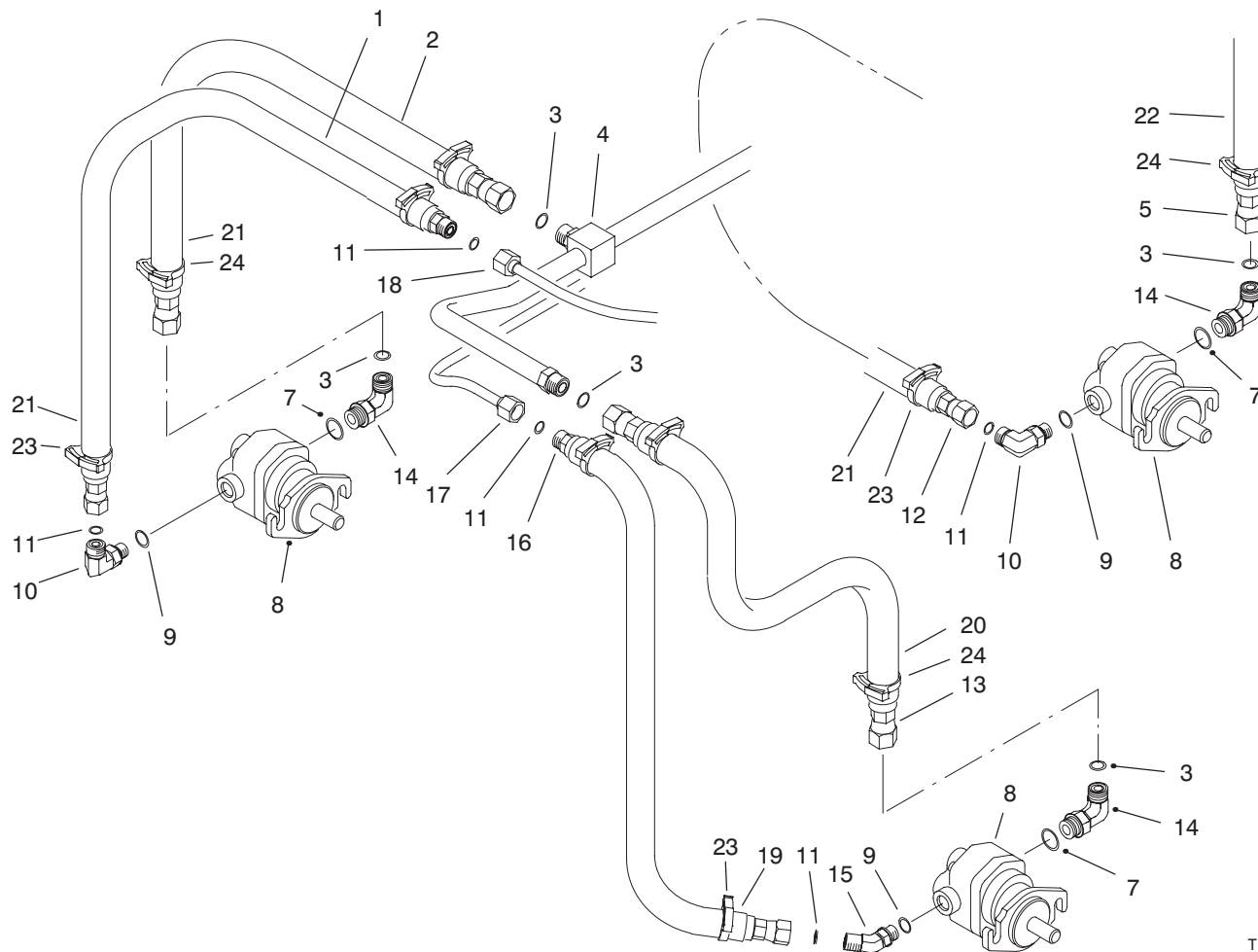
T-1313

## 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, Urethane	1
12	83-2370	Assembly - Barrel	1
13	302-5	Fitting - Grease	1
*	83-2380	Kit - Seal Repair (Incl. Ref. #1-7)	1

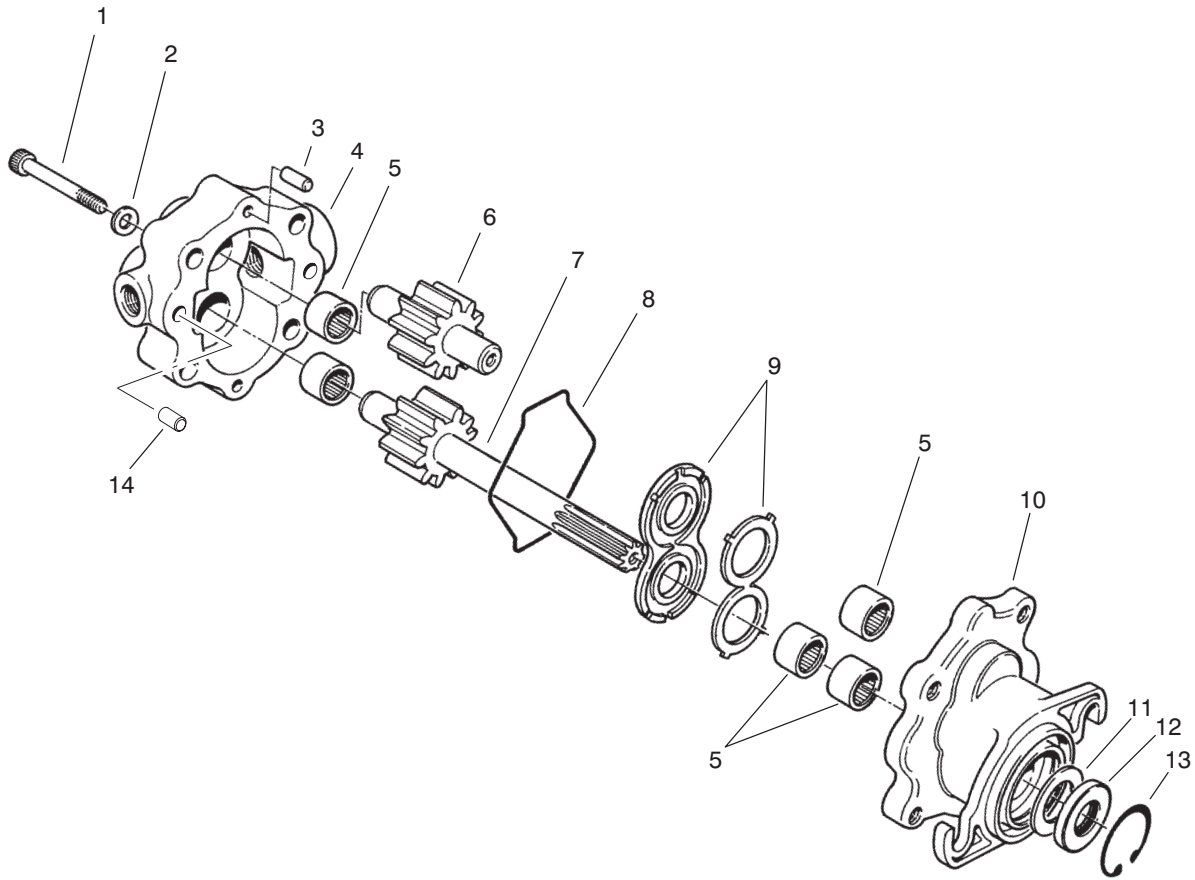
\*Not Illustrated



T-1297B

## REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	63-3810	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1	13	63-3830	Hydraulic Hose Assembly (Incl. Ref. #20 & 24)	1
2	63-3820	Hydraulic Hose Assembly (Incl. Ref. #21 & 24)	1	14	340-98	Fitting - Hydraulic 90° (Incl. Ref. #3 & 7)	3
3	237-30	Seal - O-Ring	5	15	340-87	Fitting - Hydraulic 45° (Incl. Ref. #9 & 11)	1
4	63-4040	Hydraulic Tube Assembly (Incl. Ref. #3)	1	16	63-3870	Hydraulic Hose Assembly (Incl. Ref. #19 & 23)	1
5	63-3840	Hydraulic Hose Assembly (Incl. Ref. #22 & 24)	1	17	63-4020	Tube - Hydraulic	1
7	237-79	Seal - O-Ring	3	18	63-4030	Tube - Hydraulic	1
8	94-3506	Reel Motor Assembly	3	19	56-7986	Sleeve - Protective	1
9	237-42	Seal - O-Ring	3	20	56-7987	Sleeve - Protective	1
10	340-77	Fitting - Hydraulic 90° (Incl. Ref. #9 & 11)	2	21	56-7980	Sleeve - Protective	3
11	237-22	Seal - O-Ring	5	22	56-7981	Sleeve - Protective	1
12	74-3830	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1	23	93-9346	Clamp - Pressure Hose	6
				24	93-9347	Clamp - Return Hose	6



T-1872

## REEL MOTOR NO. 94-3506

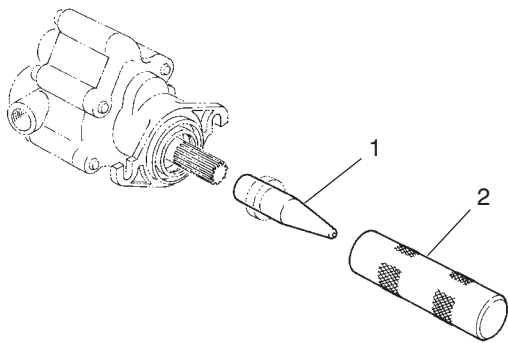
Ref. No.	Part No.	Description	No. Used
1	354-50	Screw - Hex Socket Hd.	4
2	354-51	Washer	4
3	353-599	Pin - Dowel	2
4	94-3507	Cover Assembly (Incl. Ref. #5)	1
5		Bearing - Needle	5
6	94-3509	Idler Gear Assembly	1
7	94-3508	Drive Shaft Assembly	1
8	354-46	Ring - Seal	1

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

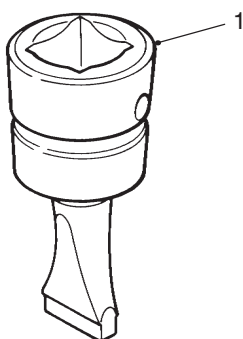
## REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

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

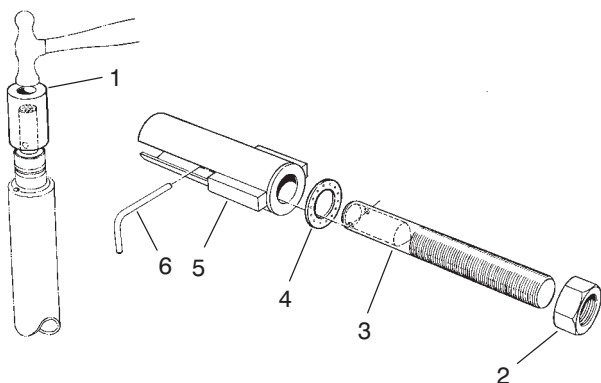
## BED KNIFE SCREW TOOL NO. TOR510880



T-0729

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

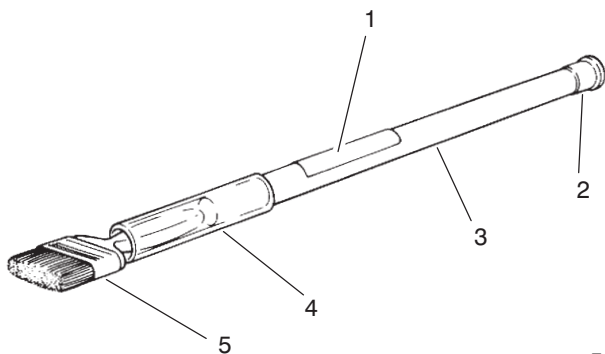
## BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



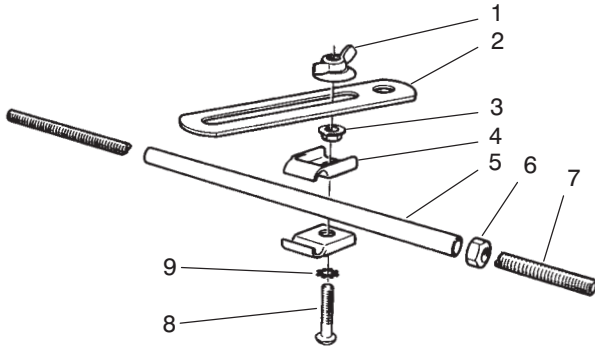
T-0731

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)

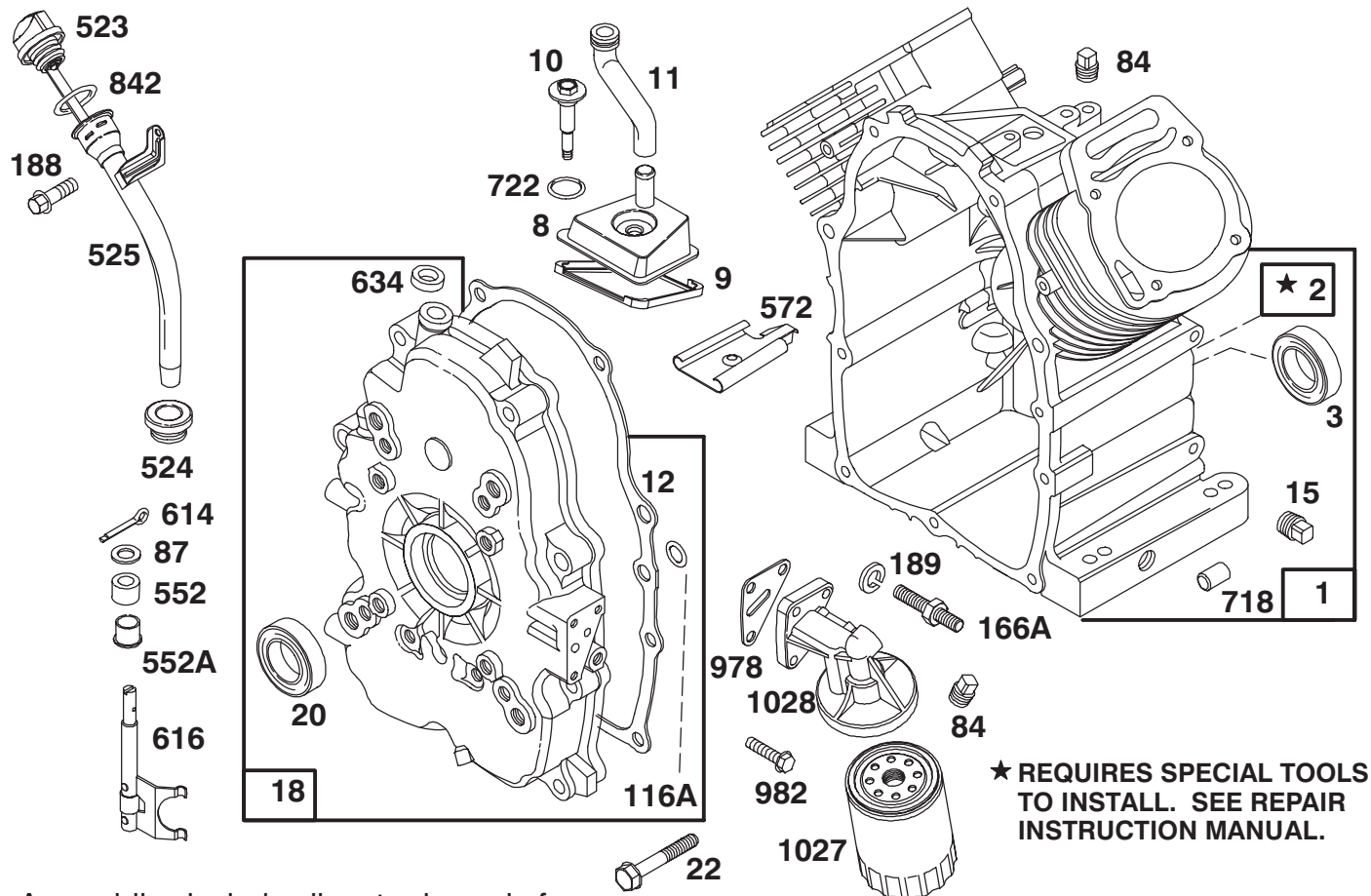
## ALIGNMENT TOOL NO. TOR200120



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**



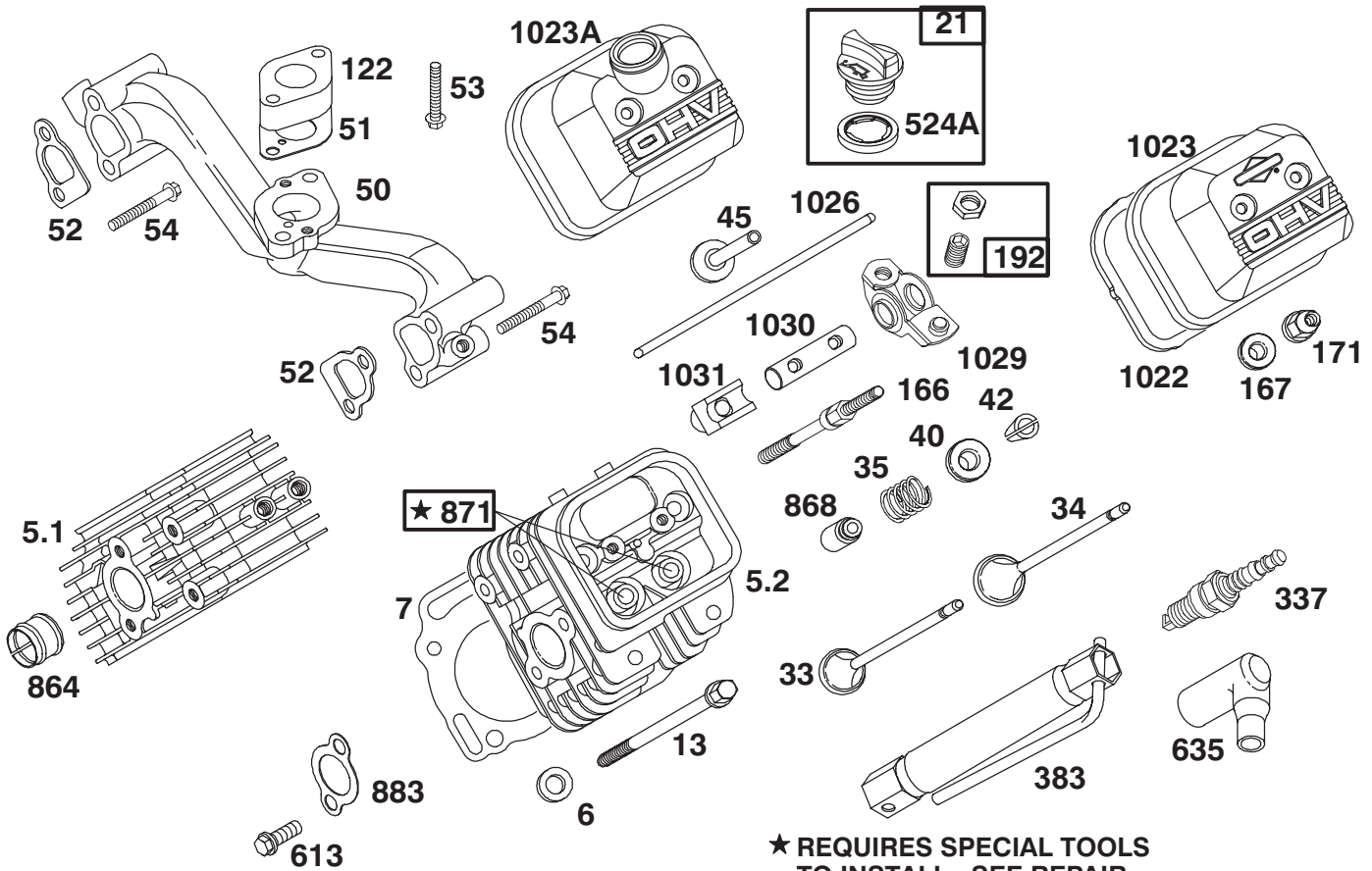
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
1	807521	Cylinder Assembly	
2	805107	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 Assembly – Crankcase	
*20	805049	Seal – Oil	
22	805696	Screw – Crankcase Cover	
84	91488	Plug – Pipe	
*87	805054	Seal – Governor Shaft	
*116A	805198	O-Ring (Crankcase Cover)	
166A	805073	Stud – Oil Filter Adapter	
188	805247	Screw – Hex. Head	

Ref. No.	Part No.	Description	No. Used
189	805449	Lockwasher	
523	807977	Dipstick	
*524	805259	Seal – Filler Tube	
525	807584	Tube – Oil Filler	
552	805412	Bushing – Governor Shaft	
552A	805413	Bushing – Governor Shaft	
572	805197	Baffle – Breather	
614	805417	Pin – Cotter	
616	807596	Fork – Governor	
634	805416	Washer – Governor Shaft	
718	805103	Dowel – Crankcase	
*722	805483	Seal – Breather Screw	
*842	805386	O-Ring	
*978	805250	Gasket – Oil Filter Adapter	
982	805030	Screw	
1027	491056	Filter – Oil	
1028	805292	Adapter – Oil Filter	

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



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

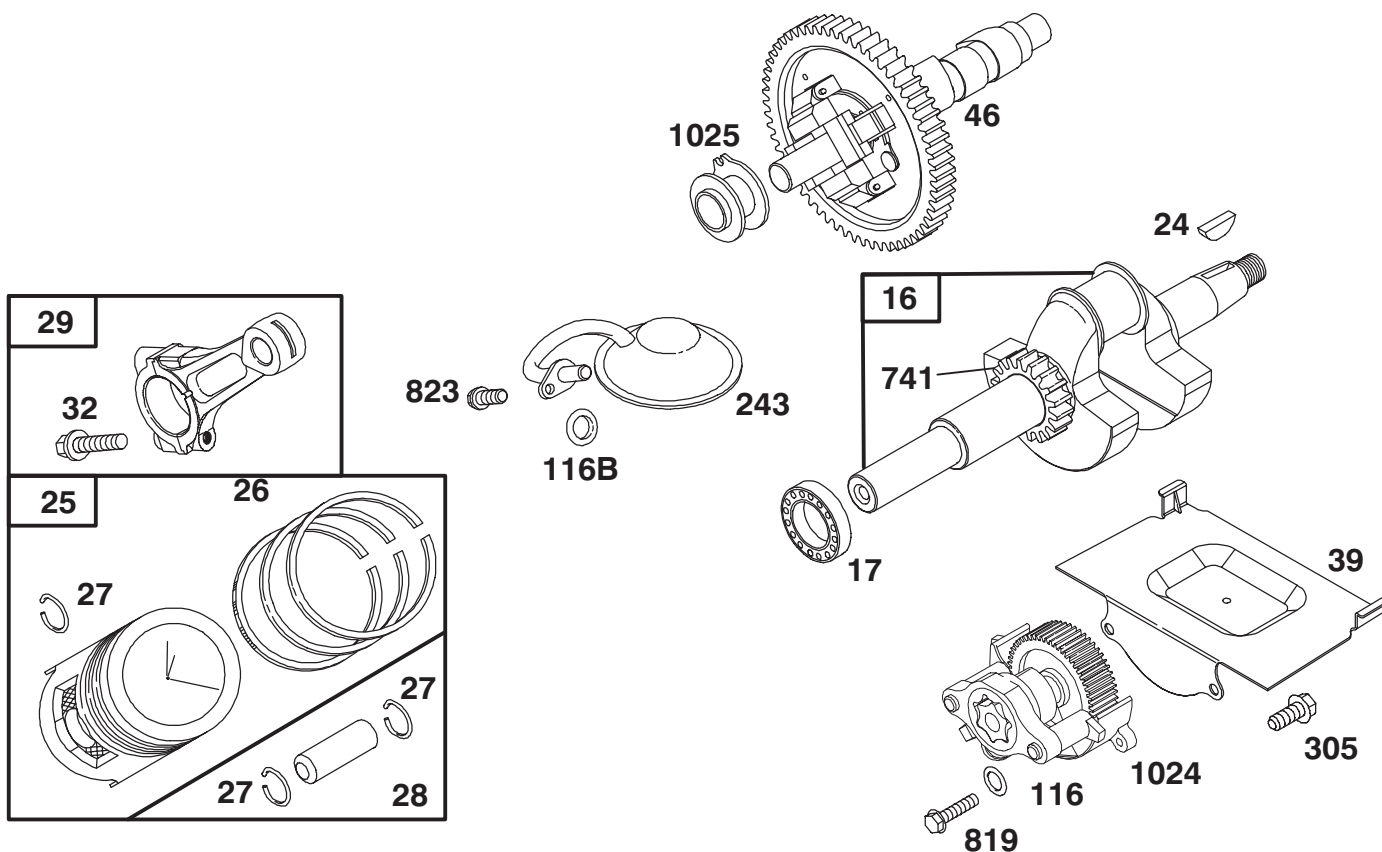
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
5.1	807987	Head – Cylinder (Cyl. #1)	
5.2	807988	Head – Cylinder (Cyl. #2)	
‡6	805193	Washer – Cylinder Head	
‡*7	807986	Gasket – Cylinder Head	
13	805097	Screw – Cylinder Head	
21	491832	Plug – Oil Fill (Cyl. #1)	
33	805089	Valve – Exhaust	
34	805090	Valve – Intake	
35	805078	Spring – Valve	
40	805092	Retainer – Valve Spring	
42	805161	Retainer – Valve	
45	805354	Tappet – Valve	
50	805772	Manifold – Intake	
*51	805264	Gasket – Carburetor Mtg.	
‡*52	805023	Gasket – Intake Manifold	
53	805466	Screw	
54	805006	Screw	
122	805328	Spacer – Carburetor	
166	805343	Stud – Rocker Arm	
‡*167	805420	Washer – Valve Cover	
‡171	805019	Nut – Nylock	

Ref. No.	Part No.	Description	No. Used
192	807623	Screw – Valve Adjustment (Incl. Jam Nut)	
337	496018	Plug – Spark	
383	19374	Wench – Spark Plug	
‡*524A	271983	Seal – Filler Plug	
613	805158	Screw	
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	805028	Gasket – Valve Cover	
1023	805100	Cover – Valve	
1023A	808032	Cover – Valve Used on Cylinder #1.	
1026	805352	Rod – Push <b>Note:</b> 805617 Rod – Push Used on Exhaust Side Only.	
1029	807557	Arm – Rocker	
1030	805342	Shaft – Rocker Arm	
1031	805341	Support – Rocker Arm	

\*Included in Gasket Set – Part No. 807989.  
‡Included in Valve Overhaul Kit – Part No. 807990.



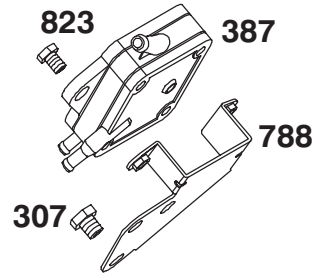
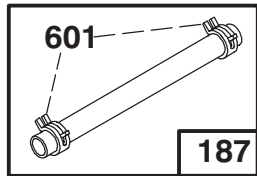
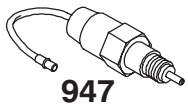
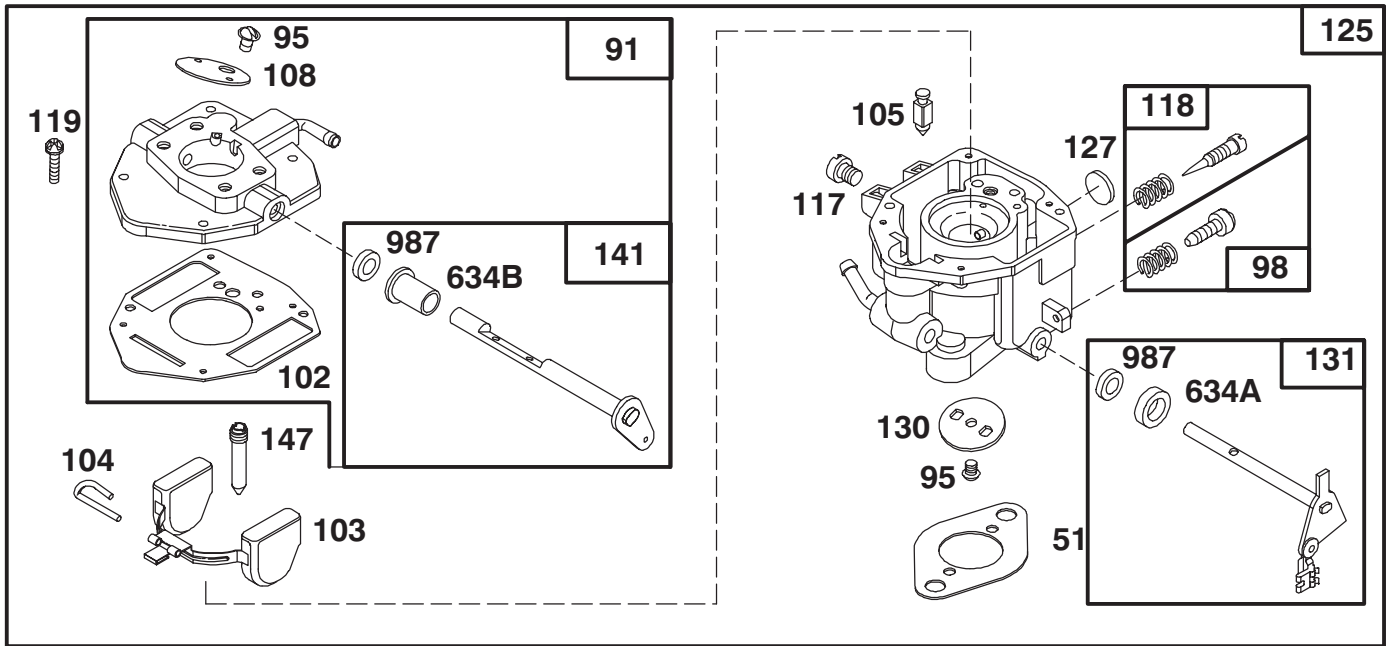
Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft <b>Note:</b> To Replace Crankshaft Gear Key – Order Part No. 94196. 807625 Thrust Washer	
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.	
27	805099	Lock – Piston Pin	
28	807621	Piston Pin Assembly	

Ref. No.	Part No.	Description	No. Used
29	807900	Connecting Rod Assembly <b>Note:</b> For Connecting Rod With .020" Undersize Crankpin Bore – Order Part No. 807803.	
32	805395	Screw – Connecting Rod	
39	805654	Plate – Windage	
46	807542	Gear – Cam	
*116	805058	O-Ring (Oil Pump)	
*116B	805316	O-Ring (Pick – Up Tube)	
243	807598	Screen – Oil Pump Pick-Up	
305	805406	Screw	
741	805675	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.

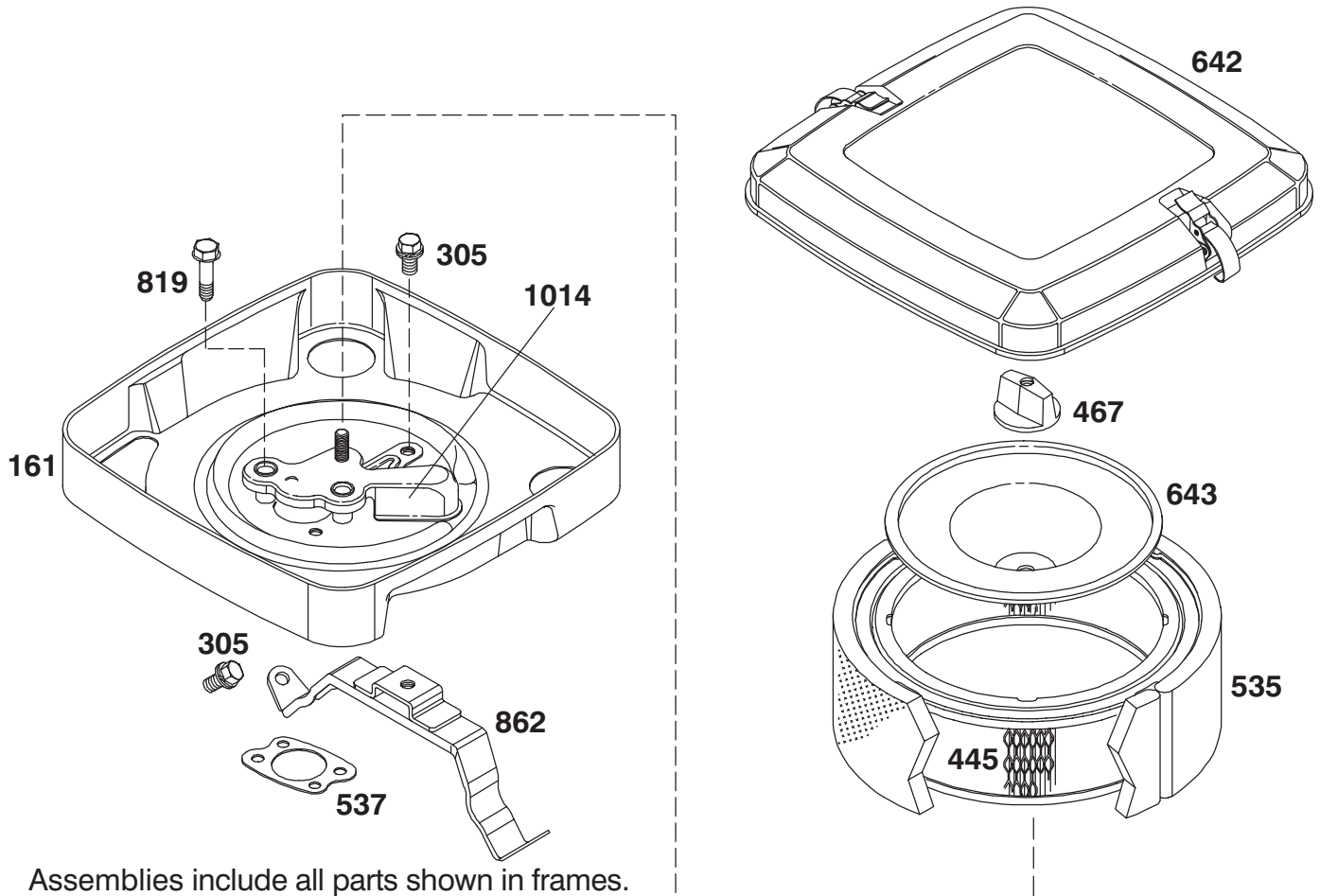
## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
*51	805700	Gasket – Carburetor Mtg.	
91	807919	Body – Upper Carburetor	
95	805538	Screw – Valve Mtg.	
98	807718	Screw – Throttle Adj.	
†102	805541	Gasket – Intake Elbow	
103	805546	Float Assembly	
†104	805545	Pin – Float Hinge	
†105	805547	Valve – Fuel Inlet	
108	805539	Valve – Choke	
†117	805853	Jet – Main	
†118	807719	Valve – Idle Adjusting Needle	
119	805540	Screw – Upper Body Mtg.	
125	807918	Carburetor Assembly	
†127	805559	Plug – Welch	

Ref. No.	Part No.	Description	No. Used
130	805554	Valve – Throttle	
131	807720	Shaft – Throttle	
141	807722	Shaft – Choke	
†147	805553	Jet – Slow Speed	
187	393815	Hose – Fuel (Cut to Suit)	
307	805025	Screw	
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	
947	807664	Solenoid	
†987	805544	Seal – Shaft	

†Included in Carburetor Kit – Part No. 807726.

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

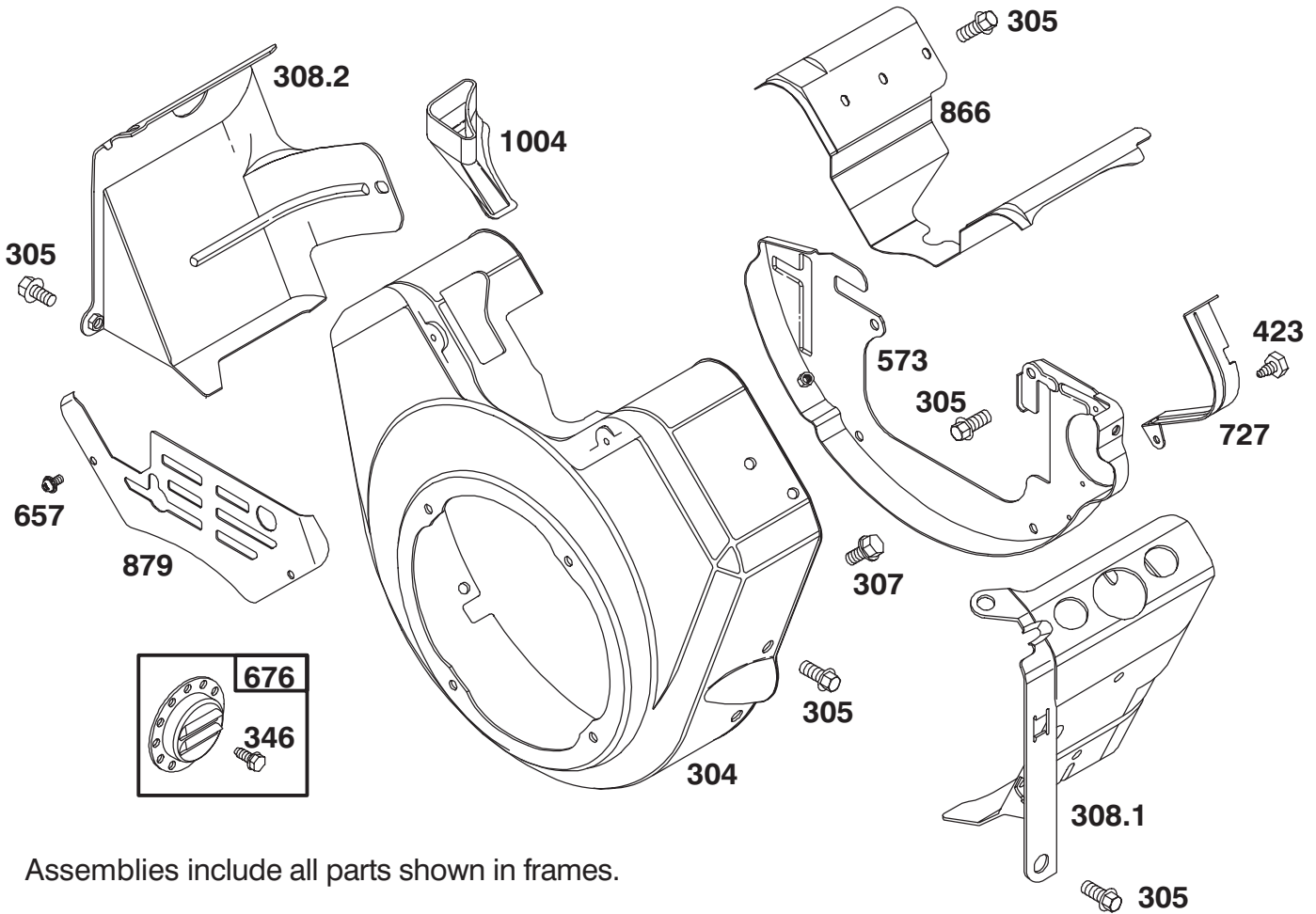


## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
161	807857	Base Assy. – Air Cleaner	
305	805406	Screw	
445	394018	Cartridge – Air Cleaner	
467	491875	Knob – Air Cleaner	
535	272490	Element – Foam	
*537	805655	Gasket – Air Cleaner	

Ref. No.	Part No.	Description	No. Used
642	807862	Cover Assy. – Air Cleaner	
643	805631	Plate – Air Cleaner	
819	805057	Screw	
862	807796	Bracket – Air Cleaner	
1014	807797	Carburetor Inlet Shield Assy.	

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

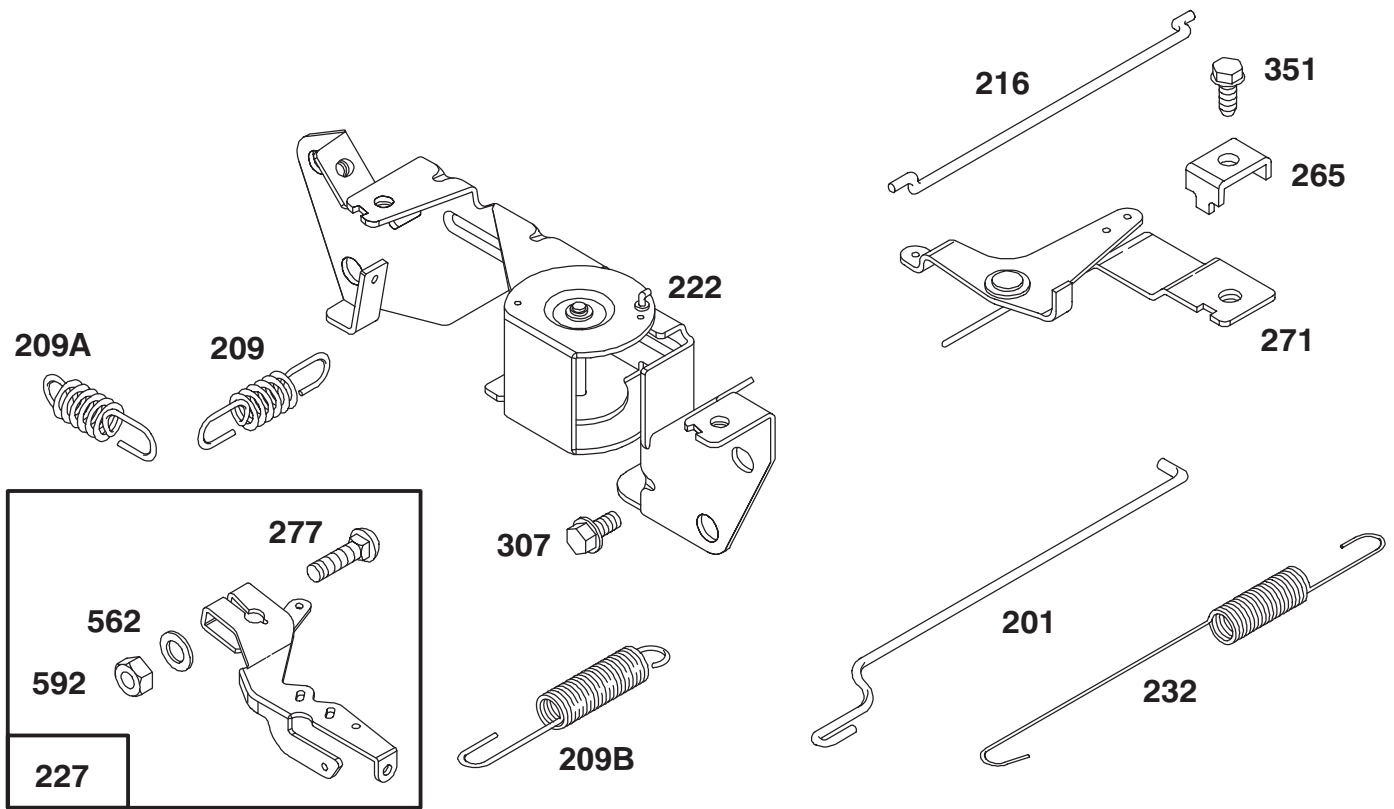


Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
304	807898	Housing – Blower	
305	805406	Screw	
307	805025	Screw	
308.1	807868	Cover – Air Guide (Cyl. #1)	
308.2	807869	Cover – Air Guide (Cyl. #2)	
346	93705	Screw	
423	805260	Screw	

Ref. No.	Part No.	Description	No. Used
573	807663	Back Plate Assembly	
657	805009	Screw	
676	397630	Deflector–Exhaust	
727	805505	Shield – Starter	
866	805738	Valley Cover – Air Guide	
879	805841	Cover – Carburetor	
1004	805632	Tube – Air Inlet	

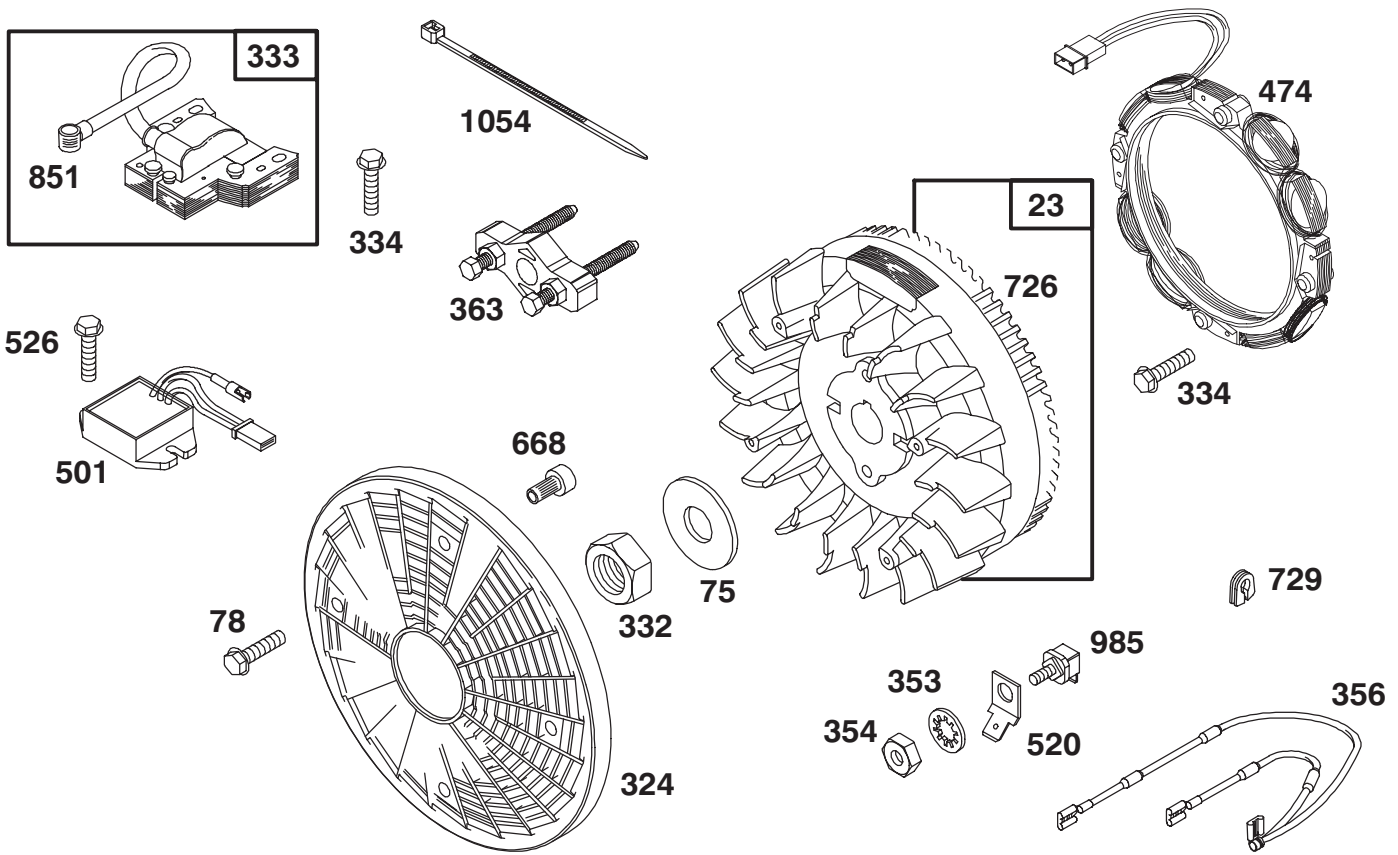


Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
201	805480	Link – Governor	
209	805464	Spring – Governor	
209A	805453	Spring – Governed Idle	
209B	805450	Spring – Governed Idle (Secondary)	
216	805439	Link – Choke	
222	807610	Bracket – Governor Control	
227	807528	Lever Assembly – Governor	

Ref. No.	Part No.	Description	No. Used
232	805465	Spring – Governor Link	
265	221535	Clamp – Casing	
271	807609	Bracket – Choke Control	
277	805018	Washer	
307	805025	Screw	
351	805169	Screw – Hex. Head	
562	805381	Bolt	
592	805383	Nut – Hex.	

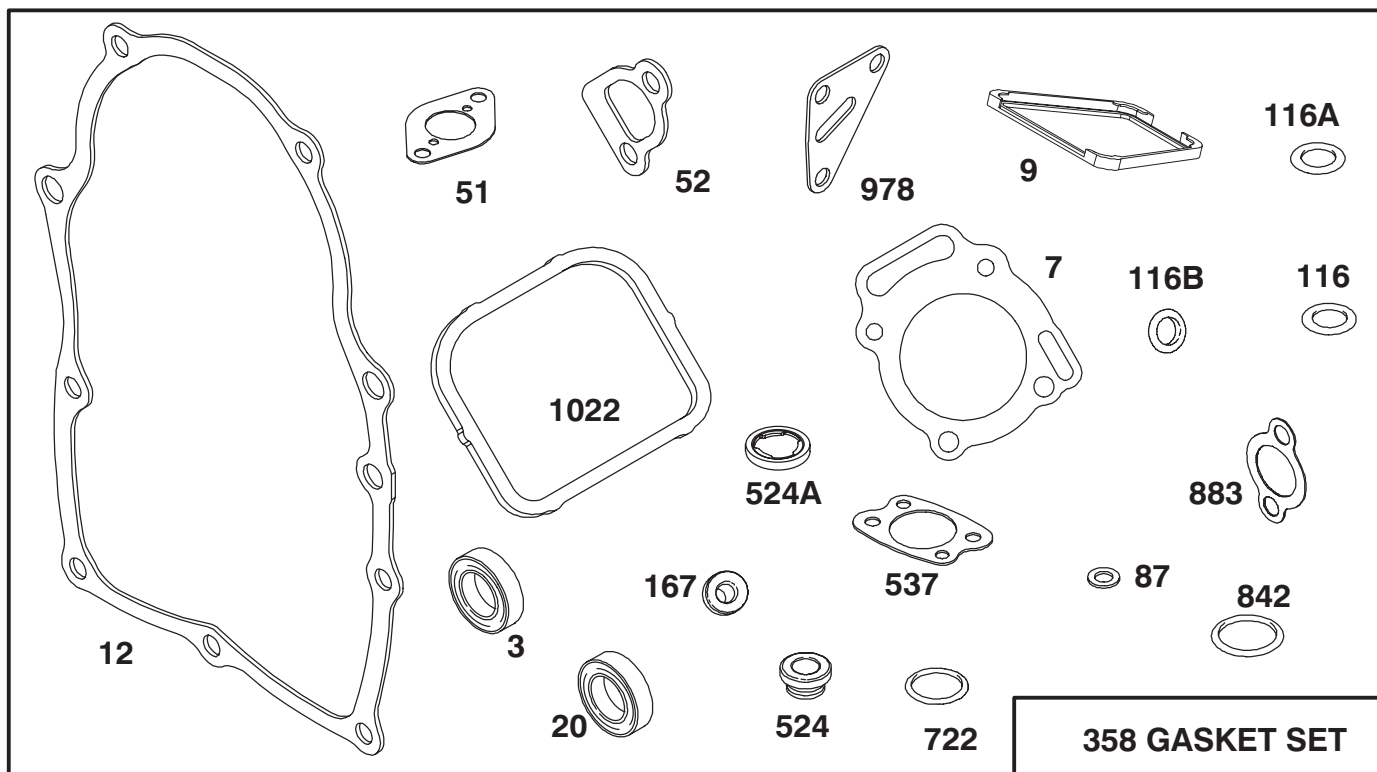


Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

Ref. No.	Part No.	Description	No. Used
23	808128	Flywheel	
75	805007	Washer - Spring	
78	805447	Screw	
324	280829	Screen - Rotating	
332	805021	Nut - Hex	
333	492341	Armature - Magneto	
334	805407	Screw - Mounting	
353	92791	Lockwasher (Internal Tooth)	
354	90576	Nut - Hex.	
356	493792	Wire Assy.	
363	19203	Puller - Flywheel	

Ref. No.	Part No.	Description	No. Used
474	393295	Stator - Alternator	
501	394890	Regulator - Alternator	
520	93722	Terminal - Ground	
526	805448	Screw - Mtg.	
668	805402	Spacer	
726	808162	Gear - Flywheel Ring	
729	805641	Grommet	
851	221798	Terminal - Ignition Cable	
985	398525	Insulator	
1054	280275	Tie - Cable	



Assemblies include all parts shown in frames.

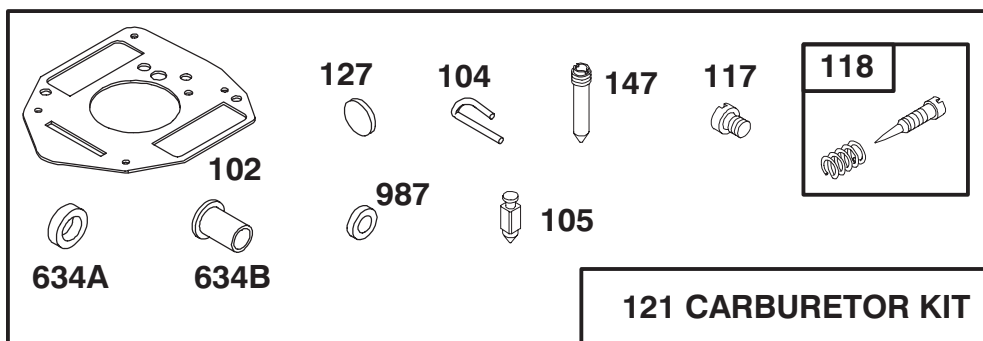
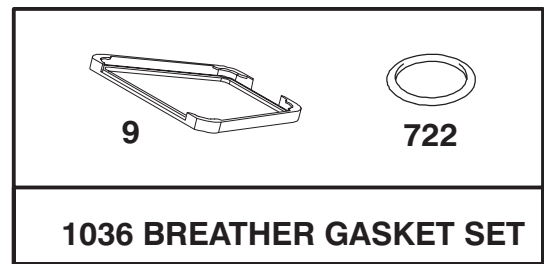
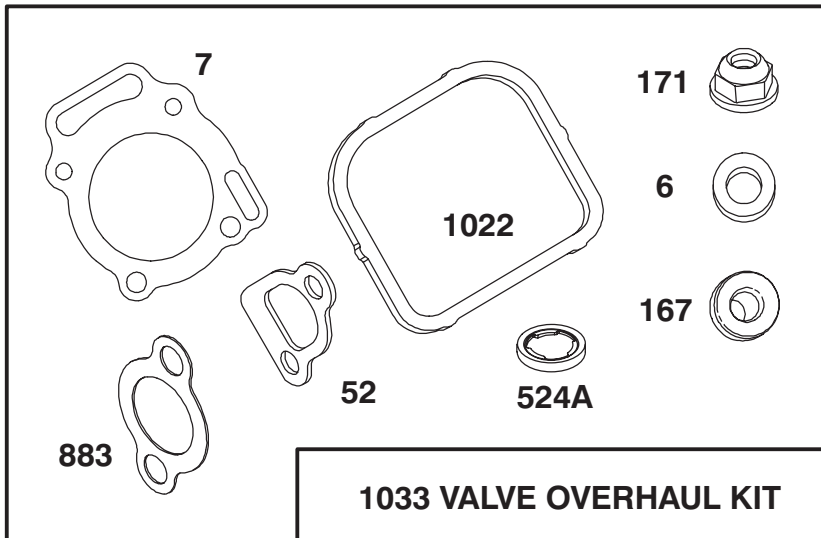
## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

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	805264	Gasket – Carburetor Mtg.	
*‡52	805023	Gasket – Intake Manifold	
*87	805054	Seal – Governor Shaft	
*116	805058	O–Ring (Oil Pump)	
*116A	805198	O–Ring (Crankcase Cover)	
*116B	805316	O–Ring (Pick – Up Tube)	

Ref. No.	Part No.	Description	No. Used
‡*167	805420	Washer – Valve Cover	
358	807989	Gasket Set	
*524	805259	Seal – Filler Tube	
‡*524A	271983	Seal – Filler Plug	
*537	805655	Gasket – Air Cleaner	
*722	805483	Seal – Breather Screw	
‡*842	805386	O–Ring	
*883	805024	Gasket – Exhaust Manifold	
*978	805250	Gasket – Oil Filter Adapter	
‡*1022	805028	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 303447-0479-01

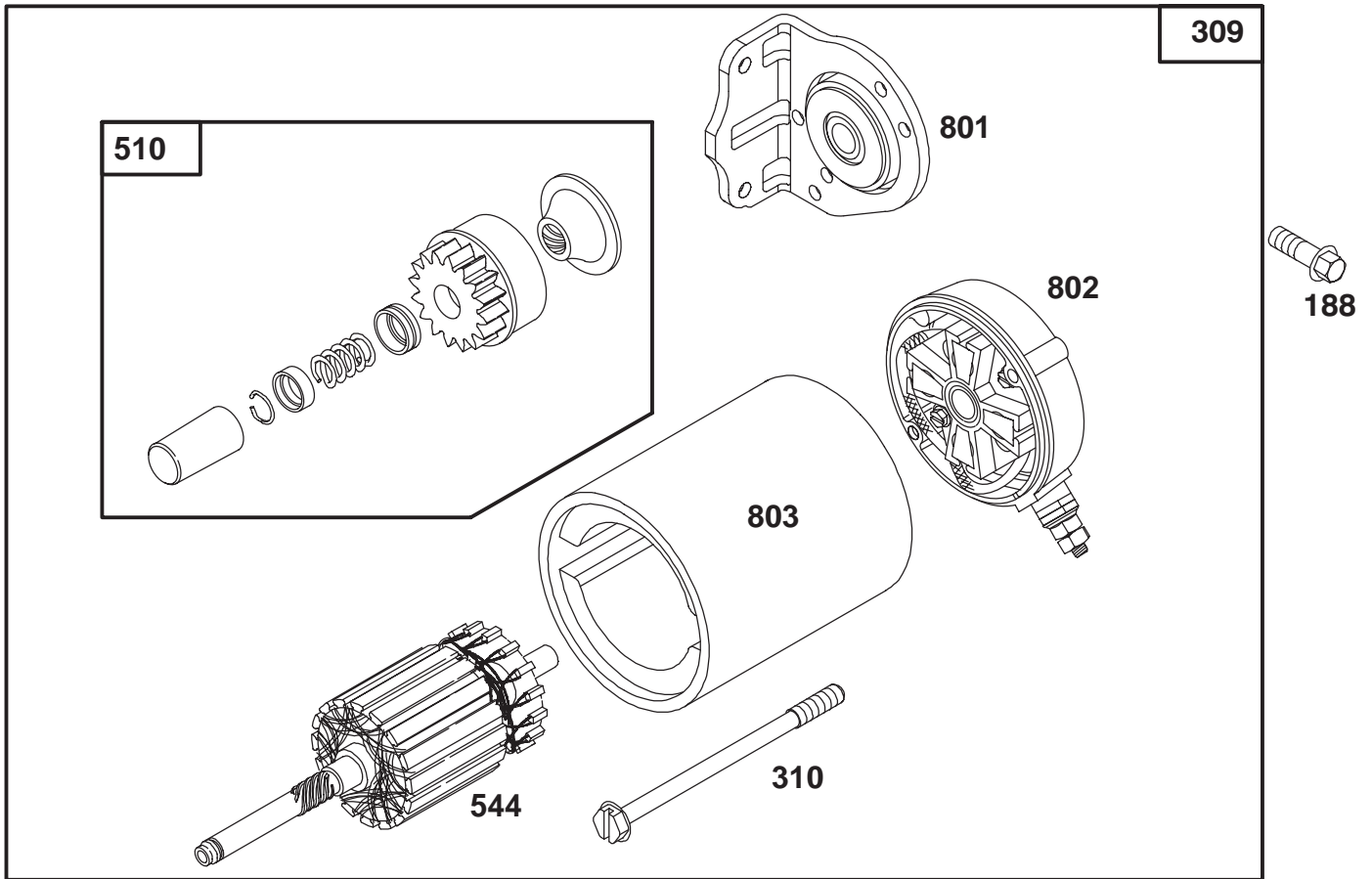
Ref. No.	Part No.	Description	No. Used
‡6	805193	Washer – Cylinder Head	
*‡7	807986	Gasket – Cylinder Head	
*9	805379	Gasket – Breather	
*‡52	805023	Gasket – Carburetor Mtg.	
†102	805541	Gasket – Intake Elbow	
†104	805545	Pin – Float Hinge	
†105	805547	Valve – Fuel Inlet	
†117	805548	Jet – Main	
†118	807719	Valve – Idle Adjusting Needle	
121	807726	Carburetor Kit	
†127	805559	Plug – Welch	

Ref. No.	Part No.	Description	No. Used
†147	805553	Jet – Slow Speed	
*‡167	805420	Washer – Valve Cover	
‡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	805028	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.



Assemblies include all parts shown in frames.

## ENGINE BRIGGS & STRATTON MODEL 303447-0479-01

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

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

# TORO PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
3–0348	Bushing – Sleeve	3	11	6	27–2540	Spacer – Hub	6	31	1
3–0348	Bushing – Sleeve	4	14	6	27–2550	Pin – Pivot	6	27	1
3–0348	Bushing – Sleeve	6	22	6	27–6600	Spacer – Coupling	27	15	4
3–1506	Bushing	1	24	2	28–1400	Battery	20	11	1
3–1506	Bushing – Flange	3	16	4	28–3680	Tire	8	2	2
3–1506	Bushing – Flange	4	30	4	28–3680	Tire	29	9	1
3–1506	Bushing – Flange	6	38	4	28–4210	Solenoid – Starter	20	5	1
3–4808	Nut – Wing	34	1	1	28–7890	Module – Interlock	21	26	1
3–6657	Clip – Skid	34	4	2	28–8080	Boot Terminal	20	13	1
3–6685	Spring – Compression	19	17	1	29–9080	Handle	33	3	1
5–0946	Key – Square	27	12	1	29–9090	Hose – Handle	33	4	1
5–0946	Key – Square	28	16	1	36–4310	Brush	33	5	1
5–1226	Washer – Shim	3	10	2	37–8130	Basket – Grass	2	*	3
5–1226	Washer – Shim	4	16	2	38–0410	Nut – Hex.	14	53	1
5–1226	Washer – Shim	6	24	2	38–0410	Nut – Hex.	16	59	1
5–3934	Bolt – Castor	29	20	1	42–2680	Race R. Detent	13	46	1
10–6060	Pin – Lift Cylinder	3	7	1	43–2830	Nut – Hex	26	33	1
10–6060	Pin – Pivot	4	19	1	43–5220	Ring – Retaining	7	10	1
10–6090	Pin – Pivot	4	33	1	43–5230	Shaft & Clevis	7	11	1
10–6090	Pin – Pivot	3	37	1	43–5930	Washer – Lock	26	25	2
10–6090	Pin – Pivot	6	41	1	43–8600	Spring – Compression	19	21	1
10–6110	Pin – Hinge	3	3	1	43–8610	Seat – Ball	19	20	1
10–6110	Pin – Pivot	4	24	1	43–8620	Guide – Switch	19	23	1
10–6821	Brake Drum Assembly	8	*	2	43–8860	Plunger – Switch	19	22	1
10–6830	Stud – Drive	29	17	4	43–8870	Boot – Switch	19	26	1
10–6850	Drum – Brake	8	6	2	43–9071	Seat Switch Assembly	19	*	1
10–6870	Hub – Wheel	8	5	2	44–0870	Shaft – Cam	10	5	1
10–7070	Key – Square	27	20	1	44–2230	Coupling – Rubber	27	16	1
10–7820	Pivot Hinge Assembly	3	12	1	44–5560	Head – Oil Filter	20	27	1
10–7820	Pivot Hinge Assembly	4	25	1	46–8560	Screw – Self Taping	20	20	3
10–7820	Pivot Hinge Assembly	6	33	1	47–2890	Bushing – Sleeve	17	20	2
10–7850	Latch – Parking Brake	1	23	1	47–5320	Lever – Control	10	40	1
10–7880	Hinge – Upper	1	8	1	47–6990	Nut – Steering Wheel	17	10	1
10–7890	Hinge – Lower	1	22	1	48–7610	Screw – Cap Hex. Hd.	24	9	1
10–8100	Strap – Brake Shaft	1	31	2	48–7620	Screw – Cap Hex. Hd.	26	36	1
10–8110	Washer – Thrust	3	9	6	49–5430	Rod – Control	10	1	1
10–8110	Washer – Thrust	4	15	6	49–5430	Rod – Control	1	4	1
10–8110	Washer – Thrust	6	23	6	49–5880	Shaft – Seat Support	19	27	1
10–8140	Spring – Torsion	1	7	1	49–6110	Guard – Transfer Rod	1	6	1
11–0160	Roller Shaft Screw Assy.	3	14	2	49–6120	Pad – Footrest	1	13	1
11–0160	Roller Shaft Screw Assy.	4	28	2	49–6200	Lever – Cutting Control	2	42	1
11–0160	Roller Shaft Screw Assy.	6	36	2	49–6220	Bracket – Control Arm	10	9	1
12–3270	Screw – Hex. Washer Hd.	26	17	4	49–6250	Bracket – Traction Pivot	10	35	1
12–3270	Screw – Hex. Washer Hd.	10	38	1	49–6260	Assy. – Pivot, Traction	10	21	1
12–3270	Screw – Thread Forming	12	50	1	49–6290	Shaft – Traction Pivot	10	37	1
12–9140	Decal	33	1	1	49–6440	Pedal – Forward	10	42	1
18–6320	Washer – Steering	29	7	4	51–0350	Pin – Seat Spring	19	16	1
20–0070	Tube	34	5	1	51–0780	Slider – Seat	19	31	1
20–0080	Rod	34	7	1	51–0790	Adjuster – Seat	19	6	1
20–0110	Bracket – Alignment	34	2	1	52–1990	Piston	5	3	1
21–8470	Shaft – Roller	3	21	1	52–2720	Roller Assembly	3	20	1
21–8470	Shaft – Roller	4	36	1	52–2720	Roller Assembly	4	35	1
21–8470	Shaft – Roller	6	44	1	52–2720	Roller Assembly	6	43	1
22–6090	Washer – Thrust	33	4	1	52–5860	Collar – Spool	16	51	1
23–8840	Puller – Bolt	33	3	1	52–5880	Ball – Steel	13	47	12
23–8850	Tube – Support	33	5	1	52–5900	Screw – Fillister Hd.	15	37	4
23–8860	Pin – Bearing Rplcmnt.	33	6	1	52–9230	Ring – Retaining	18	2	1
23–8880	Driver – Bearing	33	1	2	52–9260	Screw – Set	18	26	1
26–3790	Nut – Lock	8	4	2	52–9270	Seat – Ball Check	18	24	1
27–1960	Hub – Engine	27	21	1	52–9280	Ball – Check	18	22	1
27–1970	Hub – Pump	27	22	1	52–9290	Retainer – Ball Check	18	21	1
27–2270	Rod – Brake Adjusting	1	29	2	56–2230	Hose – Fuel	24	17	1
27–2320	Bearing – Flange	10	7	2	56–7720	Bolt – Battery	20	17	2
27–2320	Bearing – Flange	2	33	2	56–7970	Clamp Half – Tube	2	45	2
27–2380	Spacer	20	32	2	56–7980	Sleeve – Protective	31	21	3

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
56-7981	Sleeve - Protective	31 22 1	70-9880	Spring - Return	8 7 4
56-7986	Sleeve - Protective	31 19 1	71-0990	Orifice	11 43 1
56-7987	Sleeve - Protective	31 20 1	71-1500	Brake Assembly	8 * 2
57-6140	Clamp Half - Tube	8 20 2	71-1510	Arm - Brake	8 24 2
57-6220	Link	10 17 5	72-3850	Seal - Filter	20 28 1
57-7650	Spring - Torsion	4 11 1	72-4320	Switch - Ball	19 18 1
57-7650	Spring - Torsion	6 18 1	72-4790	Hold-Down - Battery	20 16 1
57-7650	Spring - Torsion	3 32 1	74-0720	Tube - Manual	19 3 1
58-6520	Decal - Grease	29 36 2	74-3570	Filter - Hydraulic Oil	20 29 1
59-6730	Race - Bearing	18 8 2	74-3730	Spacer - Hub	29 11 2
59-6740	Bearing - Needle Thrust	18 9 1	74-3810	Load Plate Assembly	32 9 1
59-6830	Centering Pin Kit	18 20 1	74-3830	Hose - Hydraulic	11 28 1
61-3310	Plate - Logo	20 21 1	74-3830	Hydraulic Hose Assembly	31 12 1
62-2420	Bar - Lift	6 8 1	74-9100	Pad - Forward Pedal	10 25 1
62-2440	Lift Arm Assembly	4 8 1	74-9110	Pad - Reverse Pedal	10 23 1
62-2460	Lift Arm Assembly L.H.	3 29 1	75-0540	Tether - Cap	23 9 1
63-3810	Hydraulic Hose Assembly	31 1 1	75-9440	Hub - Wheel	29 15 1
63-3820	Hydraulic Hose Assembly	31 2 1	76-0410	Spring	2 54 1
63-3830	Hydraulic Hose Assembly	31 13 1	76-0800	Seal Kit	9 * 1
63-3840	Hose - Hydraulic	11 36 1	76-0810	Housing Assembly	9 * 1
63-3840	Hydraulic Hose Assembly	31 5 1	76-0840	Manifold	9 22 1
63-3850	Hose - Hydraulic	11 31 1	76-0850	Bearing - Thrust	9 12 1
63-3850	Hose - Hydraulic	3 39 1	76-0860	Shaft - Coupling	9 11 1
63-3870	Hydraulic Hose Assembly	31 16 1	76-0870	Plate - Wear	9 18 1
63-4020	Tube - Hydraulic	31 17 1	76-0880	Commutator Assembly	9 * 1
63-4020	Tube - Hydraulic	11 40 1	76-0940	End Cover Assembly	9 24 1
63-4030	Tube - Hydraulic	31 18 1	76-1850	Clevis	5 13 1
63-4030	Tube - Hydraulic	11 41 1	76-1860	Shaft	5 6 1
63-4040	Hydraulic Tube Assembly	31 4 1	77-0480	Screw - Traction Stop	10 34 1
63-4040	Tube - Hydraulic	11 35 1	80-9330	Audio Alarm Assembly	21 25 1
63-4050	Fitting - Tee	11 42 2	83-0010	Engine Assembly	26 15 1
63-8360	Key - Ignition	21 17 1	83-0020	Ignition Switch Assembly	21 14 1
63-8410	Washer - Flat	24 4 4	83-0030	Control - Throttle	21 12 1
63-8410	Washer - Flat	23 36 3	83-0040	Control - Choke	21 13 1
63-8750	Pin - Pivot	6 9 1	83-0060	Lift - Pivot	1 26 1
63-8750	Pin - Pivot	4 10 1	83-0080	Spring - Torsion	1 25 1
63-8750	Pin - Pivot	3 33 1	83-0140	Pedal - Mow	2 38 1
63-9920	Decal - EEC	20 43 1	83-0160	Shaft - Brake	2 48 1
65-4860	Head	5 9 1	83-0190	Cover - R.H.	8 18 1
65-6390	Washer - Thrust	17 13 1	83-0200	Cover - L.H.	1 17 1
65-8320	Bar - Gauge	2 * 1	83-0540	Pedal - Traction	10 24 1
66-2950	Gauge - Hourmeter	21 5 1	83-0580	Rod - Traction Control	10 32 1
67-1300	Decal - TORO	20 39 1	83-0630	Arm - Traction Pivot	10 29 1
67-8113	Cap - End	18 18 1	83-0640	Plate - Footrest	1 12 1
68-5100	Rod - Seat Prop	19 10 1	83-0650	Arm - Steering	17 3 1
68-5130	Steering Wheel Assembly	17 11 1	83-0700	Handle - Lockup	17 18 1
68-5140	Cap - Steering Wheel	17 9 1	83-0730	Spacer - Lockup	17 15 1
68-5260	Fitting - Manifold Tee	11 37 1	83-0740	Disc - Friction	17 14 2
68-5310	Clip - Seat Rod	19 12 1	83-0750	Screw - Cap Hex. Hd. L.H.	17 6 1
68-5380	Lift Arm Assembly	6 21 1	83-0760	Plate - Lockup	17 16 1
68-5560	Pin - Cylinder Pivot	6 26 1	83-0780	Support - Steering Valve	17 4 1
68-5880	Hose - Hydraulic	20 30 1	83-0810	Cover - Steering Valve	17 25 1
68-6150	Breather	23 44 1	83-0820	Gauge - Ammeter	21 4 1
69-9760	Plate - Cover	2 50 1	83-0830	Panel - Control Upper	20 33 1
70-2770	Head	7 8 1	83-0840	Fender - L.H.	20 19 1
70-2780	Piston	7 4 1	83-0870	Fitting - Hydraulic Straight	23 32 3
70-7130	Tube Assy.	11 3 1	83-0910	Hose - Hydraulic	23 30 2
70-7150	Hose - Hydraulic	12 48 1	83-0910	Hose - Pump	27 11 2
70-8130	Barrel	7 1 1	83-1030	Mount - Engine	26 4 3
70-8250	Drive	18 16 1	83-1040	Washer - Mount	26 2 3
70-8610	Hose - Hydraulic	12 51 1	83-1050	Spacer - Mount	26 3 2
70-9840	Shoe - Brake	8 8 4	83-1060	Adapter - Pump	26 10 1
70-9850	Clip - Retaining	8 23 2	83-1080	Pipe - Exhaust	26 7 1
70-9860	Cam - Brake	8 27 2	83-1100	Harness - Wire (Main)	22 1 1
70-9870	Plate - Backing	8 10 2	83-1100	Harness - Wire (Main)	21 8 1

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
83-1110	Harness - Wire (Engine)	22 2 1	83-2330	Hydraulic Cylinder Assy.	29 33 1
83-1150	Wire - Engine Ground	22 5 1	83-2340	Cap - Threaded	30 2 2
83-1160	Wire - Solenoid-Starter	22 3 1	83-2350	Cap - Head, Thread	30 5 2
83-1170	Hose - Hydraulic	11 22 1	83-2360	Assembly - Rod	30 9 1
83-1170	Hose - Hydraulic	27 28 1	83-2370	Assembly - Barrel	30 12 1
83-1180	Hose - Hydraulic	11 6 1	83-2380	Kit - Seal Repair	30 * 1
83-1180	Hose - Hydraulic	27 8 1	83-2390	Pad - Tank	23 2 1
83-1190	Hose - Hydraulic	27 1 2	83-2400	Spacer - Tank	23 1 2
83-1190	Hose - Hydraulic	11 10 2	83-2420	Wire - Solenoid-Battery	22 4 1
83-1200	Tube Assy.	11 5 1	83-2450	Hose - Hydraulic	11 1 1
83-1220	Plate - Clamp	8 21 1	83-2450	Hose - Hydraulic (Top)	8 34 1
83-1270	Seat Support Assembly	19 7 1	83-2460	Hose - Hydraulic	11 4 1
83-1350	Hose - Hydraulic	27 7 1	83-2460	Hose - Hydraulic (Bottom)	8 * 1
83-1350	Hose - Hydraulic	17 26 2	83-2480	Decal - Parking Brake	1 9 1
83-1350	Hose - Hydraulic	29 28 1	83-2490	Decal - Service (Japanese)	19 34 1
83-1350	Hose - Hydraulic	11 45 1	83-2510	Decal - Steering Arm	17 32 1
83-1360	Hose - Hydraulic	17 27 1	83-2520	Decal - Warning (Japanese)	17 5 1
83-1360	Hose - Hydraulic	29 30 1	83-2530	Decal - Mow/Lift (Japanese)	1 14 1
83-1370	Hose - Hydraulic	17 28 1	83-2540	Decal - Traction (Japanese)	20 38 1
83-1390	Fitting - Fuel Shut-Off	24 15 1	83-2560	Decal - Warning (Japanese)	26 34 1
83-1400	Shield - Muffler	26 16 1	83-2570	Plate - Control (Japanese)	21 2 1
83-1420	Column - Steering	17 23 1	83-2580	Cylinder - Lift	3 6 1
83-1430	Hose - Hydraulic	20 23 1	83-2580	Hydraulic Cylinder Assy.	4 22 1
83-1430	Hose - Hydraulic	23 34 1	83-2590	Bolt - Shoulder	2 47 1
83-1450	Sensor - Oil Level	23 3 1	83-7230	Hydraulic Cylinder Assembly	6 10 1
83-1460	Solenoid Valve Assembly	23 28 1	84-2000	Bracket - Brake	8 12 2
83-1470	Washer - Neoprene	23 18 4	84-2203	Control Valve Assembly	16 * 1
83-1520	Screen - Filler	23 6 1	84-2203	Control Valve Assembly	11 16 1
83-1530	Bracket - Alarm	21 23 1	84-3180	Decal - Oil (Japanese)	19 33 1
83-1550	Spacer - Tank (Short)	23 17 2	84-5300	Nut - Jam	29 5 1
83-1560	Spacer - Tank (Long)	23 23 2	84-6560	Decal - Danger (Japanese)	4 3 1
83-1630	Bracket - Muffler Support	26 24 1	84-6560	Decal - Danger (Japanese)	6 3 1
83-1640	Rod End Assembly	29 6 1	84-6560	Decal - Danger (Japanese)	3 13 1
83-1660	Switch Assembly	21 6 1	84-9240	Decal - Service (Spanish)	19 34 1
83-1670	Fitting - Special	11 27 1	84-9250	Decal - Service (French)	19 34 1
83-1680	Hose - Hydraulic	6 13 1	84-9260	Decal - Service (German)	19 34 1
83-1680	Hose - Hydraulic	11 30 1	84-9270	Decal - Service (Swedish)	19 34 1
83-1690	Hose - Hydraulic	11 21 1	84-9280	Decal - Service (Italian)	19 34 1
83-1690	Hose - Hydraulic	3 40 1	85-6540	Stud - Drive	8 28 8
83-1700	Bushing - Flange	8 33 2	85-8120	Plate - Engine Mount	26 28 1
83-1700	Bushing - Flange	17 35 1	86-5360	Repair Kit	7 * 1
83-1780	Decal - Service	19 34 1	86-5390	Seal Kit	5 * 1
83-1840	Cover - R.H.	19 32 1	86-9820	Frame - Pull Rear	6 1 1
83-1860	Centering Spring Kit	18 12 1	88-9620	Decal - Greensmaster 3100	2 46 1
83-1870	Gerotor	18 17 1	88-9630	Lift Pivot Bracket R.H.	2 40 1
83-1880	Control Parts Assembly	18 * 1	88-9640	Lift Pivot Bracket L.H.	1 28 1
83-1890	Switch - Ball	14 54 1	88-9660	Shaft - Cutting Control	2 36 1
83-1890	Switch - Ball	16 60 1	88-9700	Hose - Hydraulic	6 15 1
83-1940	Guard - Pump	27 30 1	88-9700	Hose - Hydraulic	11 20 1
83-2000	Spool - Valve	23 42 1	92-0585	Pull Arm Assembly R.H.	3 19 1
83-2010	Coil - Valve	23 43 1	92-0585	Pull Arm Assembly R.H.	4 34 1
83-2030	Plate - Filler	21 3 1	92-0585	Pull Arm Assembly R.H.	6 42 1
83-2040	Hose - Fuel	24 14 1	92-0586	Pull Arm Assembly L.H.	3 17 1
83-2041	Hose - Fuel	24 11 1	92-0586	Pull Arm Assembly L.H.	4 31 1
83-2070	Hose - Valve	23 14 1	92-0586	Pull Arm Assembly L.H.	6 39 1
83-2080	Hose - Valve-Tank	23 29 1	92-1180	Seat Assembly	19 5 1
83-2090	Hose - Overflow	23 15 1	92-2545	Seals - Spool	14 * 1
83-2100	Tank - Auxiliary Hydraulic	23 26 1	92-2545	Seals - Spool	16 * 1
83-2200	Nut - Special	24 8 1	92-2546	Wiper - Seal	13 25 4
83-2220	Deflector - Exhaust	26 20 1	92-2546	Wiper - Seal	16 64 5
83-2230	Screw - Cap Hex. Hd.	26 22 4	92-2547	Plate - Seal Retainer	15 18 5
83-2240	Arrestor - Spark	26 * 1	92-2547	Plate - Seal Retainer	13 24 4
83-2250	Guage - Sight	23 25 1	92-2548	Seals - Spool	14 * 1
83-2280	Timer - Relay	21 27 1	92-2548	Seals - Spool	16 * 1
83-2310	Shield	26 35 1	92-2549	Seals - Spool	16 * 1

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92-3148	Spring	15 23 1	93-9898	Decal - Lock	2 57 1
92-4063	Plug - Filler Cap	23 7 1	93-9901	Bracket - Lock Out, Mow	2 58 1
92-5524	Decal - Noise Rating	20 42 1	93-9903	Pin - Lock Out, Mow	2 56 1
92-6533	Kit - Cushion	19 35 1	93-9904	Arm - Lock Out, Mow	2 55 1
92-6534	Shell	19 36 1	93-9934	Traction Handle Assembly	10 12 1
92-7189	Tank - Fuel	24 2 1	93-9936	Bracket - Cable	10 44 1
92-8020	Adapter - Breather	23 21 1	93-9937	Cable - Traction Return	10 45 1
92-8690	Steering - Valve Assembly	17 24 1	94-2690	Filter - Fuel	24 13 1
92-8691	Bushing - Seal Gland	18 3 1	94-2694	Cover - R.H.	20 2 1
92-8695	Seal Kit	18 * 1	94-2959	Ball Joint Receiver Assy.	4 4 2
92-8696	Screw - Torx Hd.	18 19 7	94-2959	Ball Joint Receiver Assy.	6 4 2
92-8697	Plate - Wear	18 15 1	94-2959	Ball Joint Receiver Assy.	3 25 2
92-8795	Body Assembly	32 10 1	94-3506	Reel Motor Assembly	31 8 3
92-8796	Pin - Dowel	32 14 2	94-3507	Cover Assembly	32 4 1
92-8863	Repair Kit	32 * 1	94-3508	Drive Shaft Assembly	32 7 1
92-8966	Reservoir - Hydraulic	23 5 1	94-3509	Idler Gear Assembly	32 6 1
92-9164	Frame Assembly	20 18 1	94-4248	Collar Spool	15 26 1
92-9176	Frame - Pull L.H.	3 24 1	94-5434	Spool #5	15 1 1
92-9177	Frame - Pull R.H.	4 1 1	94-5586	Bar - Lift L.H.	3 30 1
92-9199	Motor - Hydraulic	8 22 2	94-5588	Bar - Lift, R.H.	4 9 1
92-9761	Link - Drive	9 13 7	94-6960	Clamp - Mounting	21 9 1
92-9762	Screw - Cap Hex. Hd.	9 14 1	217-60	Rim	8 3 2
92-9763	Rotor Set	9 * 1	217-60	Rim	29 10 1
92-9764	Hydraulic Pump Assembly	27 9 2	218-461	Nut - Hex.	21 16 1
92-9766	Plate - Gear 66B	28 14 1	218-461	Nut - Hex.	19 25 2
92-9767	Hose - Hydraulic	11 18 2	218-498	Nut - Hex.	21 19 2
92-9767	Hose - Hydraulic	4 39 2	218-594	Fuse - 20 Amp	21 7 1
92-9772	Shaft - Drive	28 20 1	2112-11	Clamp - Muffler	26 14 1
92-9773	Gear - 66B	28 21 1	232-24	Stem - Valve	8 1 2
92-9774	Idler Shaft - Gear Assy.	28 12 1	232-24	Valve Stem w/Cap	29 18 1
93-1386	Section #5 Assembly	16 * 1	233-48	Knob	10 11 1
93-2524	Fork - Castor	29 19 1	233-48	Knob	17 17 1
93-2554	Valve - Needle	12 53 1	237-7	Seal - O-Ring	19 24 1
93-2555	Fitting - Valve Body	11 17 1	237-21	Seal - O-Ring	27 6 1
93-2556	Needle Valve Assembly	12 * 1	237-21	Seal - O-Ring	11 19 6
93-3651	Retainer - Boot	13 22 2	237-21	Seal - O-Ring	17 29 4
93-3651	Retainer - Boot	15 47 3	237-21	Seal - O-Ring	29 31 2
93-3652	Boot - Spool Assembly	14 * 2	237-22	Seal - O-Ring	27 2 3
93-3652	Boot - Spool Assembly	16 * 3	237-22	Seal - O-Ring	11 11 6
93-6668	Decal - Danger	20 45 1	237-22	Seal - O-Ring	31 11 5
93-7160	Cap - Hydraulic Reservoir	23 8 1	237-30	Seal - O-Ring	31 3 5
93-7170	Cap - Fuel	24 1 1	237-30	Seal - O-Ring	11 7 2
93-7252	Decal - C.E. Mark	20 46 1	237-30	Seal - O-Ring	19 19 1
93-7257	Decal - Service	19 34 1	237-30	Seal - O-Ring	27 27 1
93-7258	Decal - Service (Norwegian)	19 34 1	237-35	Seal - O-Ring	6 11 2
93-7259	Decal - Service (Finnish)	19 34 1	237-42	Seal - O-Ring	27 4 4
93-7260	Decal - Service (Danish)	19 34 1	237-42	Seal - O-Ring	31 9 3
93-7261	Decal - Service (Dutch)	19 34 1	237-42	Seal - O-Ring	11 15 4
93-7276	Decal - Danger	20 44 1	237-42	Seal - O-Ring	17 31 4
93-7629	Pad - Brake	2 49 1	237-54	O-Ring	15 3 6
93-7630	Pad - Mow	2 39 1	237-54	O-Ring	13 6 8
93-7631	Pad - Lift	2 37 1	237-58	Seal - O-Ring	11 34 1
93-8061	Plate - Control	21 2 1	237-65	Seal - O-Ring	11 2 6
93-8062	Decal - Parking Brake	1 9 1	237-65	Seal - O-Ring	8 15 4
93-8063	Decal - Warning	17 5 1	237-78	Seal - O-Ring	6 14 2
93-8064	Decal - Danger	4 3 1	237-78	Seal - O-Ring	29 32 2
93-8064	Decal - Danger	6 3 1	237-78	Seal - O-Ring	3 38 2
93-8064	Decal - Danger	3 13 1	237-78	Seal - O-Ring	4 38 2
93-8065	Decal - Traction	20 38 1	237-79	Seal - O-Ring	31 7 3
93-8067	Decal - Oil	19 33 1	237-79	Seal - O-Ring	11 9 4
93-8068	Decal - Steering Arm	17 32 1	237-79	Seal - O-Ring	23 11 5
93-8069	Decal - Warning	26 34 1	237-80	Seal - O-Ring	23 4 1
93-8075	Decal - Mow/Lift	1 14 1	237-80	Seal - O-Ring	8 13 4
93-9346	Clamp - Pressure Hose	31 23 6	237-80	Seal - O-Ring	27 25 1

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237-81	Seal - O-Ring	11	38	1	321-4	Screw - Cap Hex. Hd.	21	21	1
237-101	Seal - O-Ring	20	26	2	321-4	Screw - Cap Hex. Hd.	26	27	4
237-123	Seal - O-Ring	23	24	1	321-4	Screw - Cap Hex. Hd.	8	31	1
237-143	Grommet	20	40	2	321-4	Screw - Hex. Flange Hd.	1	16	2
237-177	Seal - O-Ring	23	33	3	321-5	Screw - Cap Hex. Hd.	8	26	8
240-11	Grommet	24	3	4	321-11	Screw - Cap Hex. Hd.	23	40	2
240-11	Grommet	23	37	3	321-11	Screw - Cap Hex. Hd.	2	43	1
242-50	Nut - Lug	29	8	4	321-11	Screw - Hex. Washer Hd.	8	17	1
242-50	Nut - Lug	8	29	8	322-1	Screw - Cap Hex. Hd.	3	1	3
2410-18	Plug	33	2	1	322-1	Screw - Cap Hex. Hd.	4	21	3
2410-73	Retainer - Tether	23	10	1	322-1	Screw - Cap Hex. Hd.	6	30	2
2411-42	Joint - Ball L.H. Thread	10	30	1	322-1	Screw - Cap Hex. Hd.	27	31	2
2411-43	Joint - Ball R.H. Thread	10	33	1	322-2	Screw - Cap Hex. Hd.	19	1	2
2412-34	Clamp - Hose	27	10	2	322-3	Screw - Cap Hex. Hd.	6	25	1
2412-34	Clamp - Hose	20	24	2	322-3	Screw - Cap Hex. Hd.	26	32	6
2412-34	Clamp - Hose	23	31	3	322-4	Screw - Cap Hex. Hd.	27	32	2
2412-36	Clamp - Hose	23	13	4	322-4	Screw - Cap Hex. Hd.	20	36	4
2412-36	Clamp - Hose	24	16	2	322-5	Screw - Cap Hex. Hd.	10	36	2
2412-39	Clamp - R	21	28	1	322-6	Screw - Cap Hex. Hd.	27	18	4
2412-41	Clamp - R	24	5	3	322-8	Screw - Cap Hex. Hd.	26	21	2
2412-41	Clamp-R	12	47	2	322-14	Screw - Cap Hex. Hd.	23	20	2
2412-94	Clamp - R	24	10	1	322-14	Screw - Cap Hex. Hd.	11	39	3
2412-108	Clamp - Hose	24	12	4	322-29	Screw - Cap Hex. Hd.	23	22	2
2412-133	Clamp - R	19	4	2	323-4	Screw - Cap Hex. Hd.	17	7	2
2412-141	Clamp - Hose	23	41	2	323-6	Screw - Cap Hex. Hd.	24	6	3
250-6	Tie - Cable	26	*	2	323-6	Screw - Cap Hex. Hd.	23	35	3
251-141	Bearing - Ball	3	22	2	323-8	Screw - Cap Hex. Hd.	27	24	2
251-141	Bearing - Ball	4	37	2	323-12	Screw - Cap Hex. Hd.	26	1	3
251-141	Bearing - Ball	6	45	2	323-13	Screw - Cap Hex. Hd.	1	5	4
253-111	Seal - Shaft	29	12	2	324-7	Screw - Cap Hex. Hd.	26	30	4
254-61	Cup - Bearing	29	3	2	325-4	Screw - Cap Hex. Hd.	17	19	2
254-70	Cone - Bearing	29	4	2	325-11	Screw - Cap Hex. Hd.	8	9	8
254-78	Cone - Bearing	29	13	2	3211-2	Screw - Cap Hex. Hd.	10	19	2
254-79	Cup - Bearing	29	14	2	3217-5	Nut - Hex.	20	12	2
256-2	Bushing - Sleeve	10	20	2	3217-6	Nut - Hex.	28	1	4
256-155	Bushing - Flange	10	26	2	3217-6	Nut - Hex.	21	33	3
256-155	Bushing -Flange	19	28	2	3217-6	Nut - Hex.	10	48	1
256-251	Bushing - Sleeve	10	10	2	3217-7	Nut - Hex	13	33	3
282-2	Clevis - Adjusting	1	2	5	3217-12	Nut - Lock	29	26	1
282-2	Clevis - Rod	10	3	1	3217-25	Nut - Hex.	21	35	2
283-8	Pin - Clevis	3	4	1	3217-27	Nut - Hex.	21	10	2
283-8	Pin - Clevis	4	18	1	3218-13	Nut - Jam	20	8	2
283-57	Pin - Clevis	10	8	1	3219-2	Nut - Hex.	34	6	1
283-61	Pin - Clevis	1	1	5	3219-14	Nut - Hex.	20	7	2
283-61	Pin - Clevis	10	4	1	3219-18	Nut - Hex.	33	2	1
283-62	Pin - Clevis	10	46	1	3220-2	Nut - Jam	10	2	2
302-2	Fitting - Grease	6	17	1	3220-2	Nut - Jam	1	3	5
302-2	Fitting - Grease	4	23	1	3220-3	Nut - Jam	4	2	2
302-2	Fitting - Grease Straight	3	34	1	3220-3	Nut - Jam	6	2	2
302-5	Fitting - Grease	30	13	1	3220-3	Nut - Jam	3	23	2
302-5	Fitting - Grease	1	27	1	3220-6	Nut - Jam	5	14	1
302-5	Fitting - Grease	4	29	4	3220-6	Nut - Jam	29	21	2
302-5	Fitting - Grease	2	44	1	3220-20	Nut - Jam L.H. Thread	10	31	1
302-5	Fitting - Grease Straight	3	15	4	3229-22	Bolt - Carriage	1	10	2
302-5	Fitting - Grease Straight	6	37	5	3234-1	Screw - Cap Hex. Hd.	2	53	4
302-11	Fitting - Grease	29	2	1	3234-1	Screw - Hex. Flange Hd.	10	6	4
302-55	Fitting - Grease	29	16	1	3234-4	Screw - Cap Hex. Hd.	12	46	1
302-60	Fitting - Grease 90°	3	8	2	3241-2	Screw - Set Square Hd.	27	19	2
302-60	Fitting - Grease 90°	4	17	2	3241-6	Screw - Set Square Hd.	27	13	2
302-60	Fitting - Grease 90°	6	32	1	3245-1	Screw - Set, Hex. Soc. Hd.	30	1	2
304-61	Clamp - R	11	23	1	3246-3	Screw - Set	17	12	1
321-2	Screw - Cap Hex. Hd.	23	16	1	3253-3	Washer - Lock	26	26	4
321-3	Screw - Cap Hex. Hd.	20	10	4	3253-3	Washer - Lock	23	39	2
321-3	Screw - Cap Hex. Hd.	19	13	1	3253-3	Washer - Lock	16	57	4

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3253-4	Washer - Lock	20	9 2	3274-84	Screw - Cap, Hex. Hd.	16	58 4
3253-6	Washer - Lock	26	29 4	3284-3	Pin - Groove	19	15 1
3253-21	Washer - Lock	27	23 2	3290-277	Nut - Speed	17	22 6
3253-21	Washer - Lock	4	27 2	3290-317	Washer - Wave	3	18 2
3253-21	Washer - Lock	3	35 2	3290-317	Washer - Wave	4	32 2
3253-21	Washer - Lock	6	35 2	3290-317	Washer - Wave	6	40 2
3254-1	Washer - Lock	20	6 2	3290-357	Nut - Flange Lock	26	8 3
3254-5	Washer - Lock	21	15 1	3290-378	Tie - Cable	26	* 2
3254-6	Washer - I.T.L.W.	10	18 2	3290-379	Tie - Cable	6	46 1
3254-10	Washer - Lock, Int. Tooth	21	31 2	3290-470	Screw - Flat Hd.	20	22 2
3255-7	Washer - Lock, Int. Tooth	21	29 1	3296-4	Nut - Lock	10	22 2
3255-8	Washer - Lock, Int. Tooth	34	9 1	3296-16	Nut - Lock	19	11 1
3255-20	Washer - Lock, Ext. Tooth	21	34 2	3296-16	Nut - Lock	1	21 2
3255-24	Washer - Lock, Ext. Tooth	21	32 3	3296-16	Nut - Lock	21	24 9
3256-1	Washer - Flat	26	18 8	3296-16	Nut - Lock	20	34 3
3256-1	Washer - Flat	21	20 8	3296-16	Nut - Lock	12	49 1
3256-1	Washer - Flat	2	51 9	3296-23	Nut - Lock	8	19 8
3256-22	Washer - Flat	20	3 5	3296-27	Nut - Lock	21	11 4
3256-22	Washer - Flat	8	30 2	3296-29	Nut - Lock	19	8 4
3256-22	Washer - Flat	23	45 1	3296-29	Nut - Lock	27	14 4
3256-22	Washer - Flat	12	52 1	3296-29	Nut - Lock	10	16 3
3256-23	Washer - Flat	3	2 3	3296-29	Nut - Lock	6	29 1
3256-23	Washer - Flat	27	17 8	3296-39	Nut - Lock	1	20 2
3256-23	Washer - Flat	23	19 4	3296-42	Nut - Lock	8	25 8
3256-23	Washer - Flat	4	20 3	3296-59	Nut - Lock	10	15 4
3256-23	Washer - Flat	26	23 2	3296-59	Nut - Lock	2	34 8
3256-23	Washer - Flat	6	28 3	3296-67	Nut - Lock	29	25 1
3256-23	Washer - Flat	19	30 4	32103-12	Nut - Wing	20	14 2
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
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3256-80	Washer - Flat	17	2 3	32128-20	Nut - Flange Lock	27	29 2
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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

\*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
340-101	Fitting - Hydraulic 45°	11	8	1	353-772	Left End Cover	13	34	1
340-103	Fitting - Hydraulic 45°	6	12	2	353-780	Bonnet - R. Detent	13	42	1
340-105	Fitting - Hydraulic 90°	27	26	1	353-780	Positioner - R. Detent (Out)	14	*	1
340-132	Fitting - Hydraulic 90°	29	29	2	353-808	Collar - Spring	15	24	1
340-137	Fitting - Hydraulic 45°	11	44	1	353-830	O-Ring	15	25	1
340-138	Fitting - Hydraulic 45°	11	12	2	353-831	Spring	15	21	1
351-78	Edging	19	40	1	353-833	Positioner Assembly	16	*	1
353-301	Poppet	13	27	1	353-835	Seals - Section Set	14	*	1
353-302	O-Ring	15	7	3	353-835	Seals - Section Set	16	*	1
353-302	O-Ring	13	10	3	353-837	Section #2 Complete	14	*	1
353-303	Ring - Backup	15	8	6	353-839	Positioner - DI (SPL) Assy.	14	*	1
353-303	Ring - Backup	13	9	6	353-840	Position - DI (SP) Assy.	16	*	1
353-304	Spring	13	28	1	353-841	Position - Spool Assembly	16	*	1
353-305	O-Ring	15	5	5	353-844	Plus Series	16	55	1
353-305	O-Ring	13	8	4	353-845	Sleeve - Detent	15	41	1
353-306	Ring - Backup	15	4	5	353-846	Spud - DI (SPL)	15	40	1
353-306	Ring - Backup	13	7	4	353-847	Bonnet (SPL)	15	38	1
353-328	Washer - Shim	13	15	A/R	353-848	O-Ring	15	14	1
353-328	Washer - Shim	15	32	A/R	353-849	Sleeve	15	39	1
353-329	Washer - Shim	13	16	A/R	353-850	O-Ring	16	56	1
353-329	Washer - Shim	15	33	A/R	353-851	Body - Relief CP-RC Mod.	13	12	1
353-330	Washer - Shim	13	17	A/R	353-851	Body - Relief CP-RC Mod.	15	29	2
353-330	Washer - Shim	15	34	A/R	353-853	Bolt - Hex Hd.	15	10	3
353-331	O-Ring	13	29	1	353-855	Spring	13	18	2
353-334	Cap - Relief	13	19	2	353-855	Spring	15	44	1
353-334	Cap - Relief	15	36	2	353-884	Key - Woodruff	28	19	4
353-392	Seal - Relief Poppet PTFE	13	13	2	353-886	Ring - Retaining	28	18	2
353-392	Seal - Relief Poppet PTFE	15	30	2	353-922	Seal - Ring	28	23	10
353-398	Spring	15	35	1	353-923	Bearing Plate Assembly	28	26	2
353-417	Collar Spring	15	20	2	353-952	Ring - Backup	13	32	1
353-417	Collar Spring	13	40	2	353-953	Plug Assembly	16	54	1
353-481	Plug - Load Check	15	2	3	353-957	Seal - Lip	15	15	6
353-481	Plug - Load Check	13	5	3	353-957	Seal - Lip	13	26	4
353-483	Body - Anticavitation	16	61	1	353-958	Ring - Backup	15	16	1
353-484	Retainer - Ball	16	62	1	353-967	Gear - 33B	28	24	6
353-529	Plate Seal	15	22	1	353-969	Plate - Gear 33B	28	25	3
353-531	Poppet Assembly	15	31	2	354-2	Body Assembly	28	15	1
353-531	Poppet Assy.	13	14	2	354-3	Bearing Plate Assembly	28	22	1
353-550	Plug - Hydraulic	23	38	1	354-4	Bearing Plate Assembly	28	28	1
353-550	Plug Assembly	15	13	1	354-5	Adapter - Splined	28	27	1
353-563	Fitting - Hydraulic Straight	20	25	1	354-6	Plate - Gear 18B	28	30	1
353-564	Fitting - Hydraulic 90°	20	31	1	354-7	Cover Assembly	28	31	1
353-575	Boot - Dust Cap	13	21	2	354-8	Drive Shaft - Gear Assy.	28	29	1
353-575	Boot - Dust Cap	15	46	3	354-9	Idler Shaft - Gear Assy.	28	5	1
353-579	Spring	13	45	1	354-11	Pin - Dowel	28	4	2
353-599	Pin - Dowel	32	3	2	354-12	Pin - Dowel	28	6	2
353-642	Relief - RC Mod.	14	*	2	354-13	Pin - Dowel	28	11	4
353-642	Relief - RC Mod. Assembly	16	*	1	354-14	Pin - Dowel	28	13	2
353-668	Plate - Cap, Cover RH	15	11	1	354-15	Seal - Shaft	28	17	1
353-721	Plug	13	35	2	354-16	Washer - Lock	28	2	4
353-727	Bonnet	13	2	1	354-17	Stud - Threaded	28	3	4
353-728	Sleeve	14	49	1	354-25	Section #4 Assembly	16	*	1
353-729	Spud - Detent	13	3	1	354-26	Bonnet	15	27	2
353-730	Spring	15	42	1	354-28	Screw - Hex, Socket Hd.	15	28	2
353-731	Ball	15	43	1	354-29	Plate - Thrust	13	48	1
353-732	Sleeve - Detent	14	52	1	354-35	Gasket	28	32	1
353-733	Spacer - Bonnet	13	4	1	354-46	Ring - Seal	32	8	1
353-733	Spacer - Bonnet	15	19	2	354-50	Screw - Hex Socket Hd.	32	1	4
353-737	Ball	16	63	1	354-51	Washer	32	2	4
353-758	Seal - O-Ring	13	31	1	354-120	Fitting - Hydraulic 90°	23	27	3
353-760	Body Relief	13	30	1	354-121	Fitting - Hydraulic Straight	23	12	1
353-762	Spud - Detent Out	14	50	1	354-122	Disc - Seal	16	52	1
353-763	Cap - Adjustment	13	44	1	354-129	Anticavitation Check Assy.	16	*	1
353-766	Relief WH (2000) PSI Assy.	14	*	1	354-131	Section #3 Assembly	16	*	1
353-768	Section #1 Complete	14	*	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).





