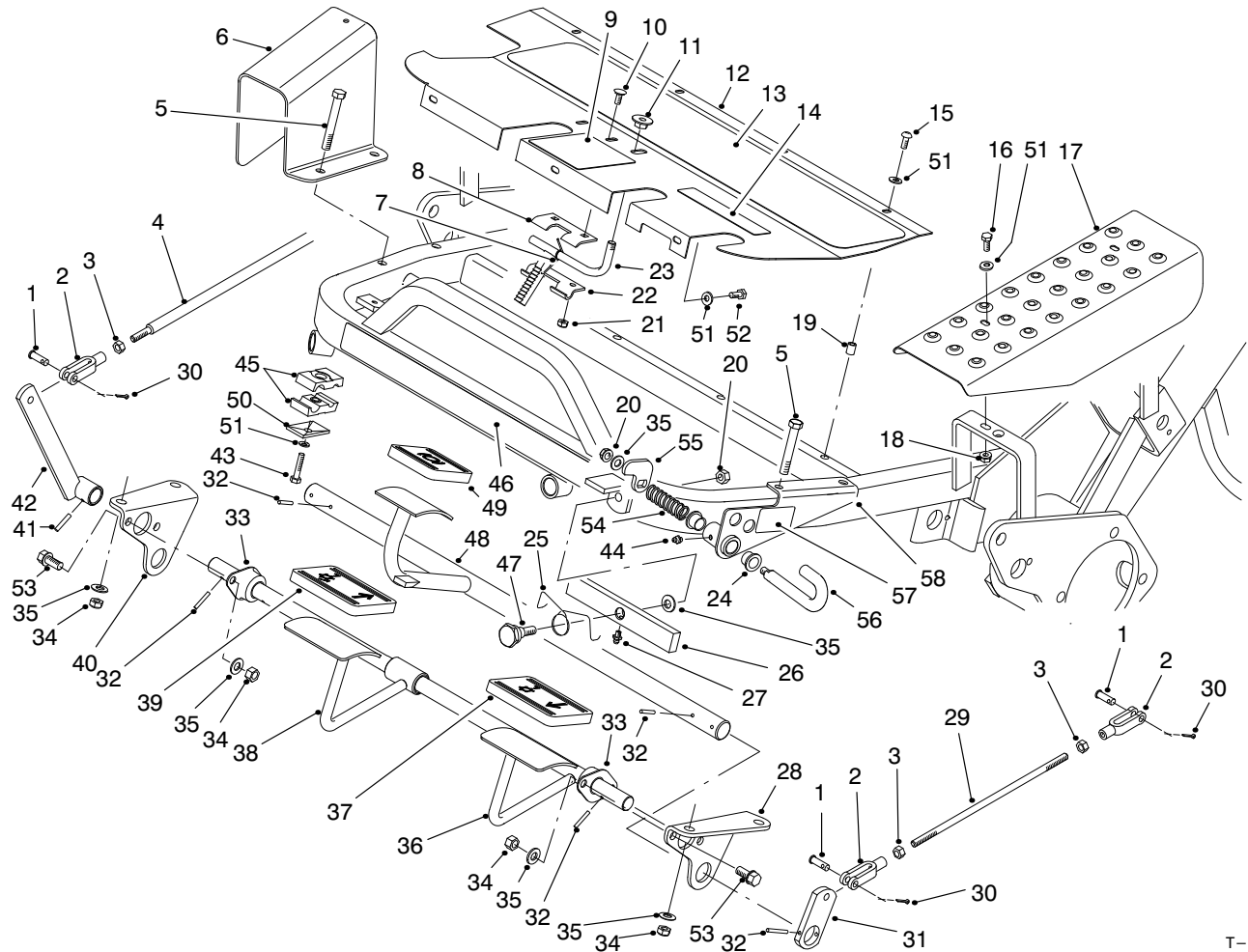


TORO®

MODEL NO. 04351-70001 & UP

PARTS CATALOG

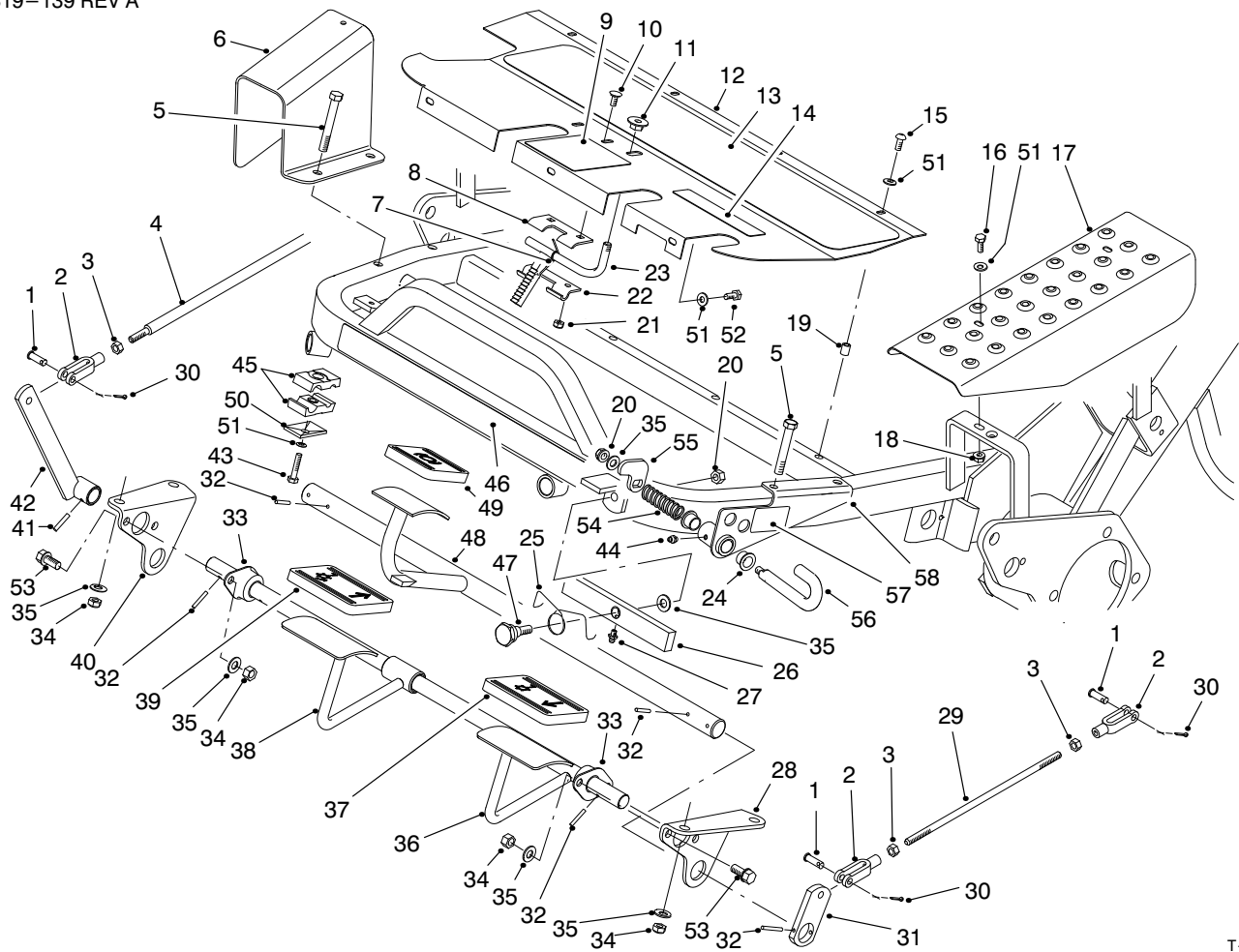
GREENSMASTER® 3050 TRACTION UNIT



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	18	32128-33	Nut - Flange Lock	2
2	282-2	Clevis - Adjusting	5	19	32148-6	Insert - Threaded	8
3	3220-2	Nut - Jam	5	20	3296-39	Nut - Lock	2
4	49-5430	Rod - Control	1	21	3296-16	Nut - Lock	2
5	323-13	Screw - Cap Hex. Hd.	4	22	95-1629	Hinge - Lower	1
6	49-6110	Guard - Transfer Rod	1	23	10-7850	Latch - Parking Brake	1
7	10-8140	Spring - Torsion	1	24	3-1506	Bushing	2
8	95-1628	Hinge - Upper	1	25	83-0080	Spring - Torsion	1
9	93-8062	Decal - Parking Brake	1	26	83-0060	Lift - Pivot	1
10	3229-11	Bolt - Carriage	2	27	302-5	Fitting - Grease	1
11	32141-111	Nut - Flange Lock	1	28	88-9640	Lift Pivot Bracket L.H.	1
12	83-0640	Plate - Footrest	1	29	27-2270	Rod - Brake Adjusting	2
13	49-6120	Pad - Footrest	1	30	3272-6	Pin - Cotter	5
14	93-8075	Decal - Mow/Lift	1	31	10-8100	Strap - Brake Shaft	2
15	3274-68	Screw - Hex. Socket Hd.	4	32	32121-35	Pin - Roll	8
16	321-4	Screw - Hex. Flange Hd.	2	33	27-2320	Bearing - Flange	2
17	83-0200	Cover - L.H.	1	34	3296-59	Nut - Lock	8

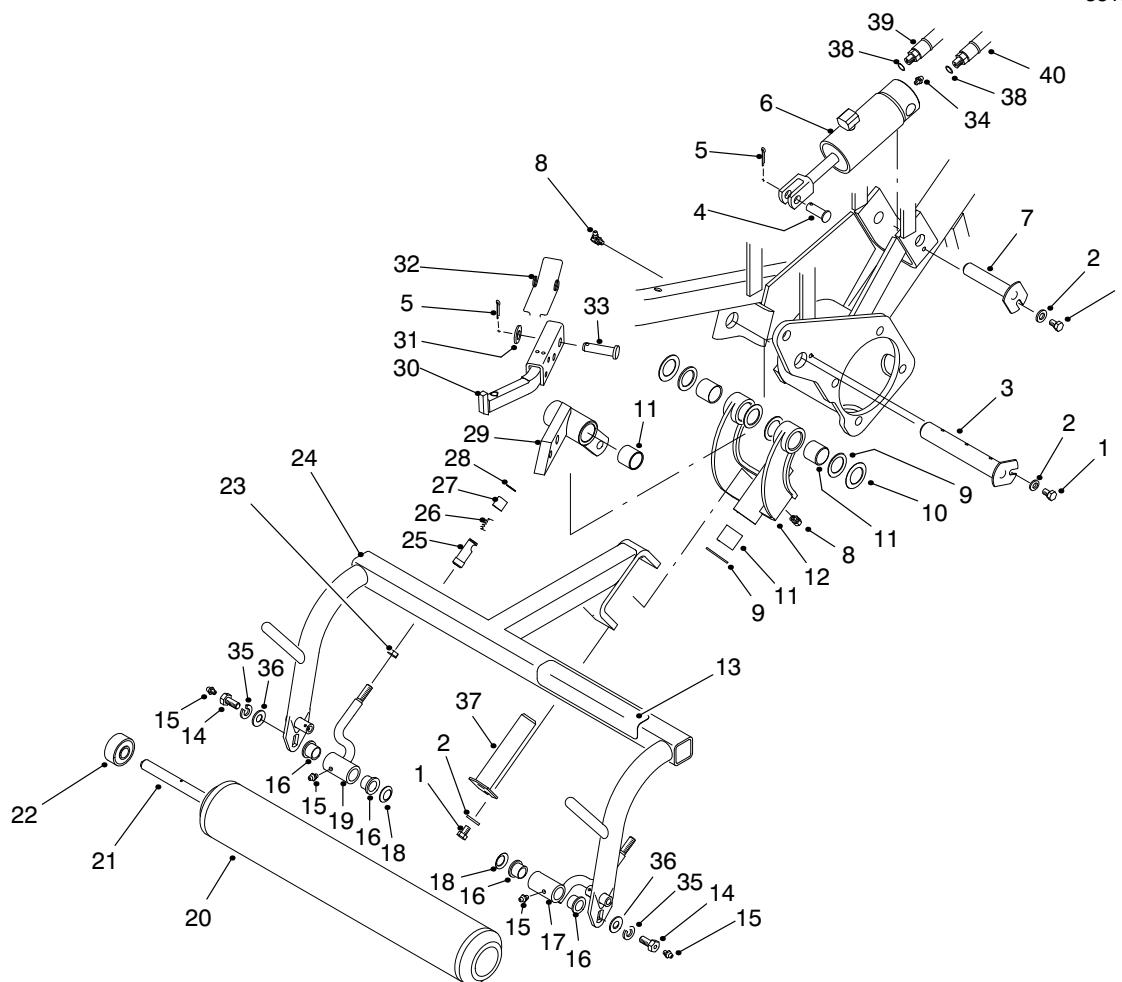


T-1285B

CONTROL PEDAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
35	3256-38	Washer - Flat	6	48	83-0160	Shaft - Brake	1
36	88-9660	Shaft - Cutting Control	1	49	93-7629	Pad - Brake	1
37	93-7631	Pad - Lift	1	50	69-9760	Plate - Cover	1
38	83-0140	Pedal - Mow	1	51	3256-1	Washer - Flat	9
39	93-7630	Pad - Mow	1	52	321-3	Screw - Cap Hex. Hd.	3
40	88-9630	Lift Pivot Bracket R.H.	1	53	3234-1	Screw - Cap Hex. Hd.	4
41	32121-6	Pin - Roll	1	54	76-0410	Spring	1
42	49-6200	Lever - Cutting Control	1	55	93-9904	Arm - Lock Out, Mow	1
43	321-11	Screw - Cap Hex. Hd.	1	56	93-9903	Pin - Lock Out, Mow	1
44	302-5	Fitting - Grease	1	57	93-9898	Decal - Lock	1
45	56-7970	Clamp Half - Tube	2	58	93-9901	Bracket - Lock Out, Mow	1
46	95-5997	Decal - Greensmaster 3050	1	*	36-7250	Basket - Grass	3
47	83-2590	Bolt - Eccentric	1	*	65-8320	Bar - Gauge	1

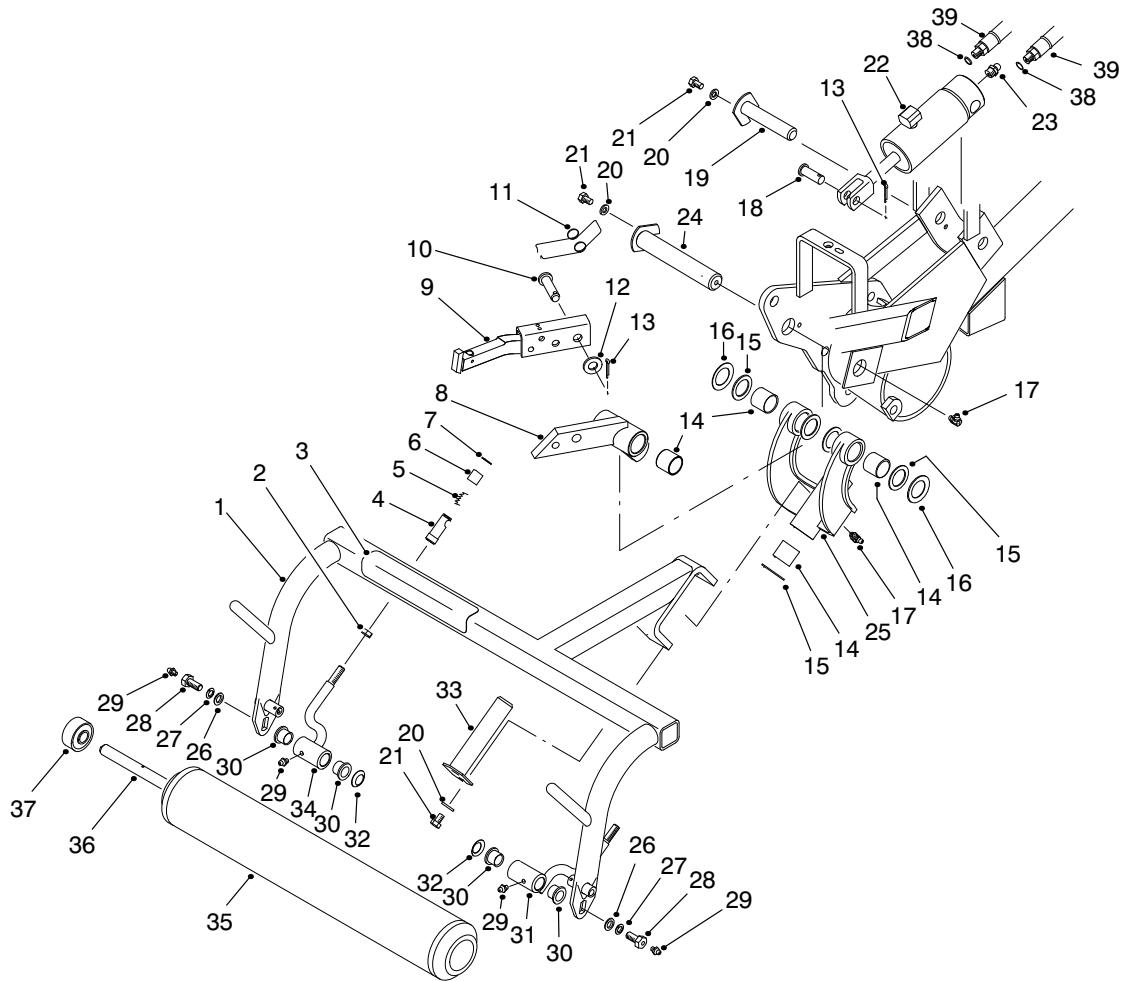
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T-1283

PULL FRAME ASSEMBLY L.H.

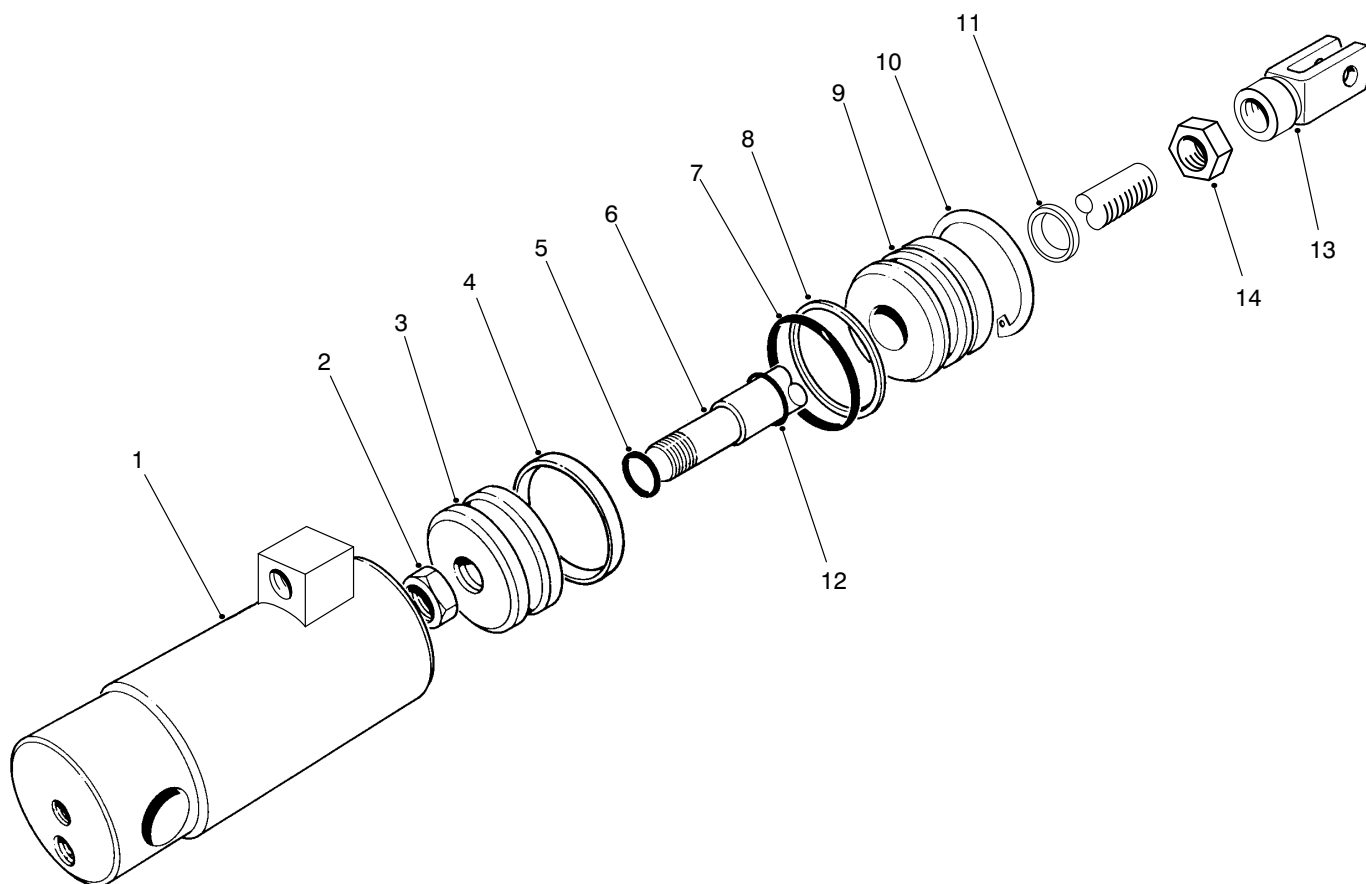
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-1	Screw - Cap Hex. Hd.	3	21	21-8470	Shaft - Roller	1
2	3256-23	Washer - Flat	3	22	251-141	Bearing - Ball	2
3	10-6110	Pin - Hinge	1	23	3220-3	Nut - Jam	2
4	283-8	Pin - Clevis	1	24	92-9176	Frame - Pull L.H.	1
5	3272-11	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
14	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #15)	2	34	302-2	Fitting - Grease Straight	1
15	302-5	Fitting - Grease Straight	4	35	3253-21	Washer - Lock	2
16	3-1506	Bushing - Flange	4	36	3256-24	Washer - Flat	2
17	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #16)	1	37	10-6090	Pin - Pivot	1
18	3290-317	Washer - Wave	2	38	237-78	Seal - O-Ring	2
19	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #16)	1	39	63-3850	Hose - Hydraulic (Incl. Ref. #38)	1
20	52-2720	Roller Assembly (Incl. Ref. #22)	1	40	83-1690	Hose - Hydraulic (Incl. Ref. #38)	1



T-1284

PULL FRAME ASSEMBLY R.H.

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	92-9177	Frame - Pull R.H.	1	23	302-2	Fitting - Grease	1
2	3220-3	Nut - Jam	2	24	10-6110	Pin - Pivot	1
3	93-8064	Decal - Danger	1	25	10-7820	Pivot Hinge Assembly (Incl. Ref. #14)	1
4	94-2959	Ball Joint Receiver Assy. (Incl. Ref. #5-7)	2	26	3256-24	Washer - Flat	2
5		Spring - Compression	2	27	3253-21	Washer - Lock	2
6		Sleeve	2	28	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #29)	2
7		Ring - Retaining	2	29	302-5	Fitting - Grease	4
8	62-2440	Lift Arm Assembly (Incl. Ref. #14)	1	30	3-1506	Bushing - Flange	4
9	94-5588	Bar - Lift, R.H.	1	31	92-0586	Pull Arm Assembly L.H. (Incl. Ref. #30)	1
10	63-8750	Pin - Pivot	1	32	3290-317	Washer - Wave	2
11	57-7650	Spring - Torsion	1	33	10-6090	Pin - Pivot	1
12	3256-26	Washer - Flat	1	34	92-0585	Pull Arm Assembly R.H. (Incl. Ref. #30)	1
13	3272-11	Pin - Cotter	2	35	52-2720	Roller Assembly (Incl. Ref. #37)	1
14	3-0348	Bushing - Sleeve	6	36	21-8470	Shaft - Roller	1
15	10-8110	Washer - Thrust	6	37	251-141	Bearing - Ball	2
16	5-1226	Washer - Shim	2	38	237-78	Seal - O-Ring	2
17	302-60	Fitting - Grease 90°	2	39	92-9767	Hose - Hydraulic (Incl. Ref. #38)	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				
22	83-2580	Hydraulic Cylinder Assy.	1				

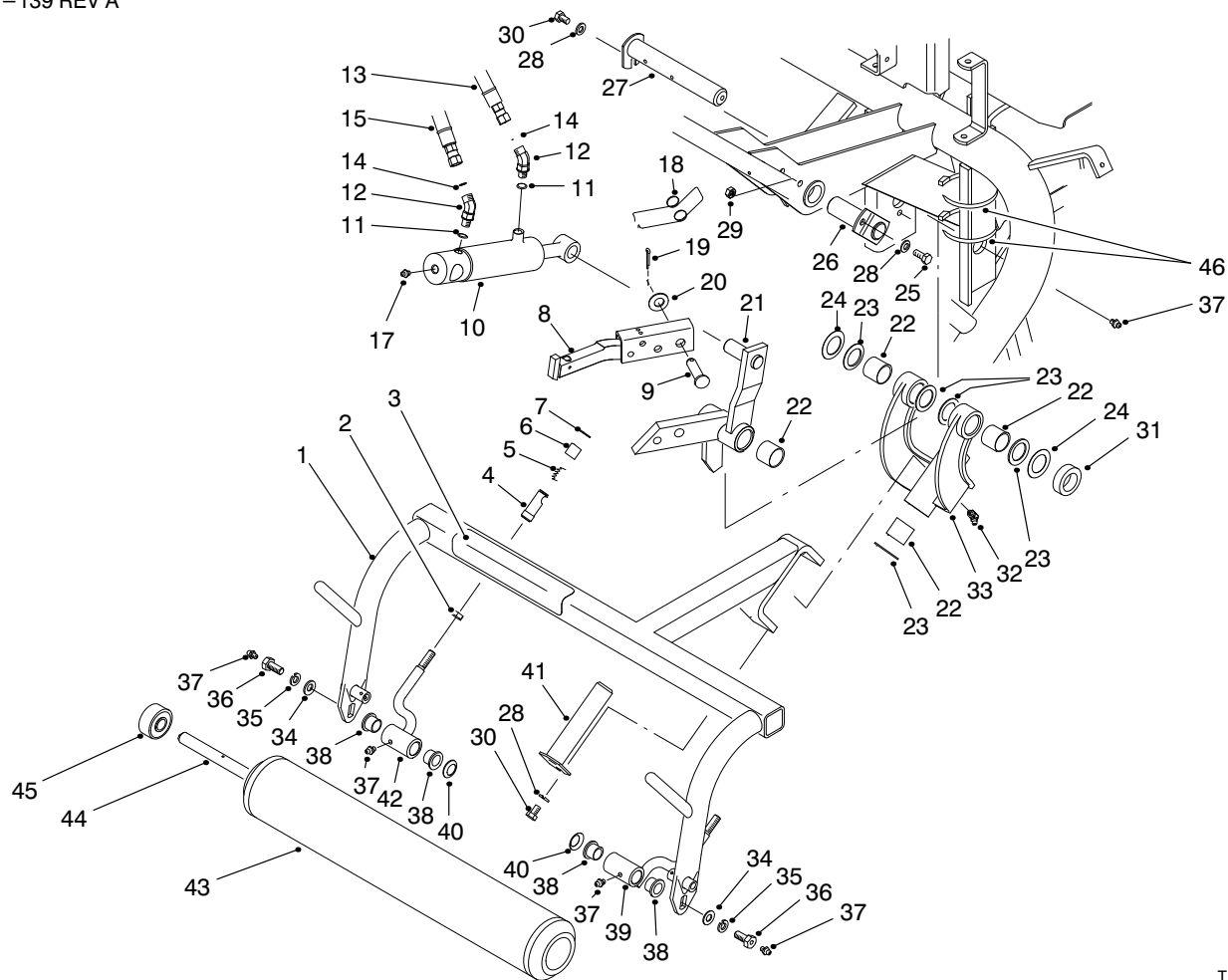


T-1246

HYDRAULIC CYLINDER ASSEMBLY NO. 83-2580

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1		Barrel	1	10	32120-8	Ring - Retaining	1
2	32152-10	Nut - Lock	1	11		Seal - Dust	1
3	52-1990	Piston	1	12		Seal - PDF	1
4		Uniring	1	13	76-1850	Clevis	1
5		Seal - O-Ring	1	14	3220-6	Nut - Jam	1
6	76-1860	Shaft	1	*	86-5390	Seal Kit	
7		Seal - O-Ring	1			(Incl. Ref. #4, 5, 7, 8, 11 & 12)	1
8		Washer - Back-Up	1				
9	65-4860	Head	1				

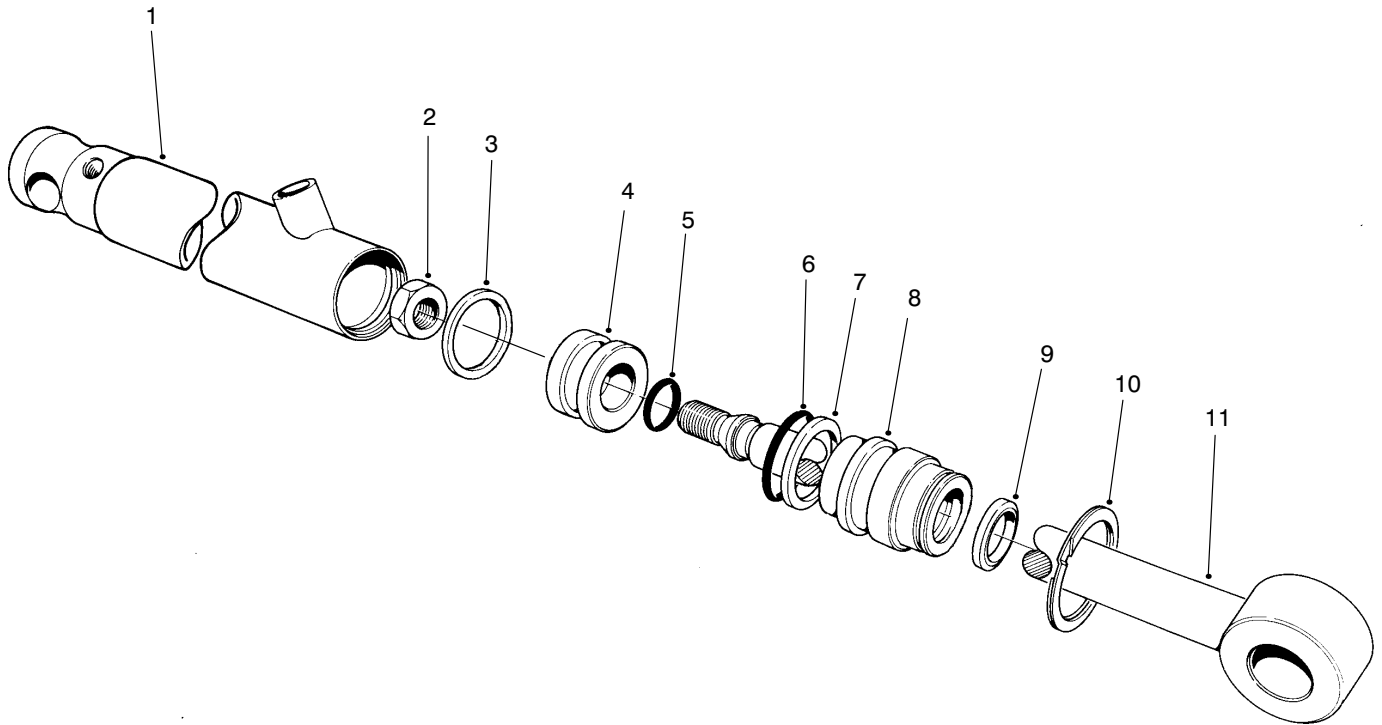
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T-1286-2

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	26	68-5560	Pin - Cylinder Pivot	1
2	3220-3	Nut - Jam	2	27	27-2550	Pin - Pivot	1
3	93-8064	Decal - Danger	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	237-21	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	2
23	10-8110	Washer - Thrust	6				
24	5-1226	Washer - Shim	2				
25	322-3	Screw - Cap Hex. Hd.	1				



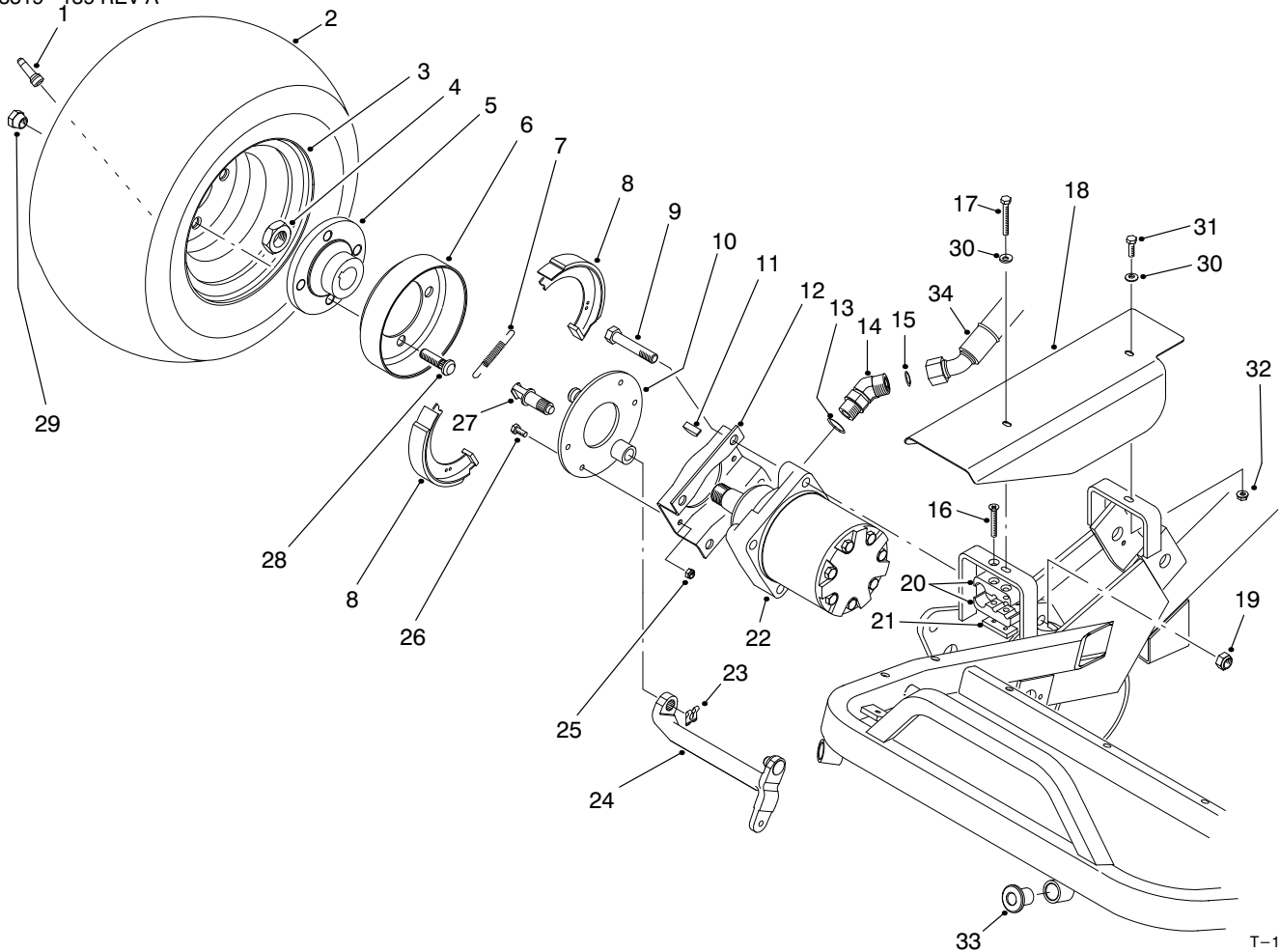
T-0640

HYDRAULIC CYLINDER NO. 83-7230

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	70-8130	Barrel	1	8	70-2770	Head	1
2	32152-10	Nut - Hex.	1	9		Seal - Dust	1
3		Uniring	1	10	43-5220	Ring - Retaining	1
4	70-2780	Piston	1	11	43-5230	Shaft & Clevis	1
5		Seal - O-Ring	1	*	86-5360	Repair Kit	1
6		Seal - O-Ring	1			(Incl. Ref. #3, 5-7 & 9)	
7		Washer - Back-Up	1				

*Not Illustrated

3319-139 REV A



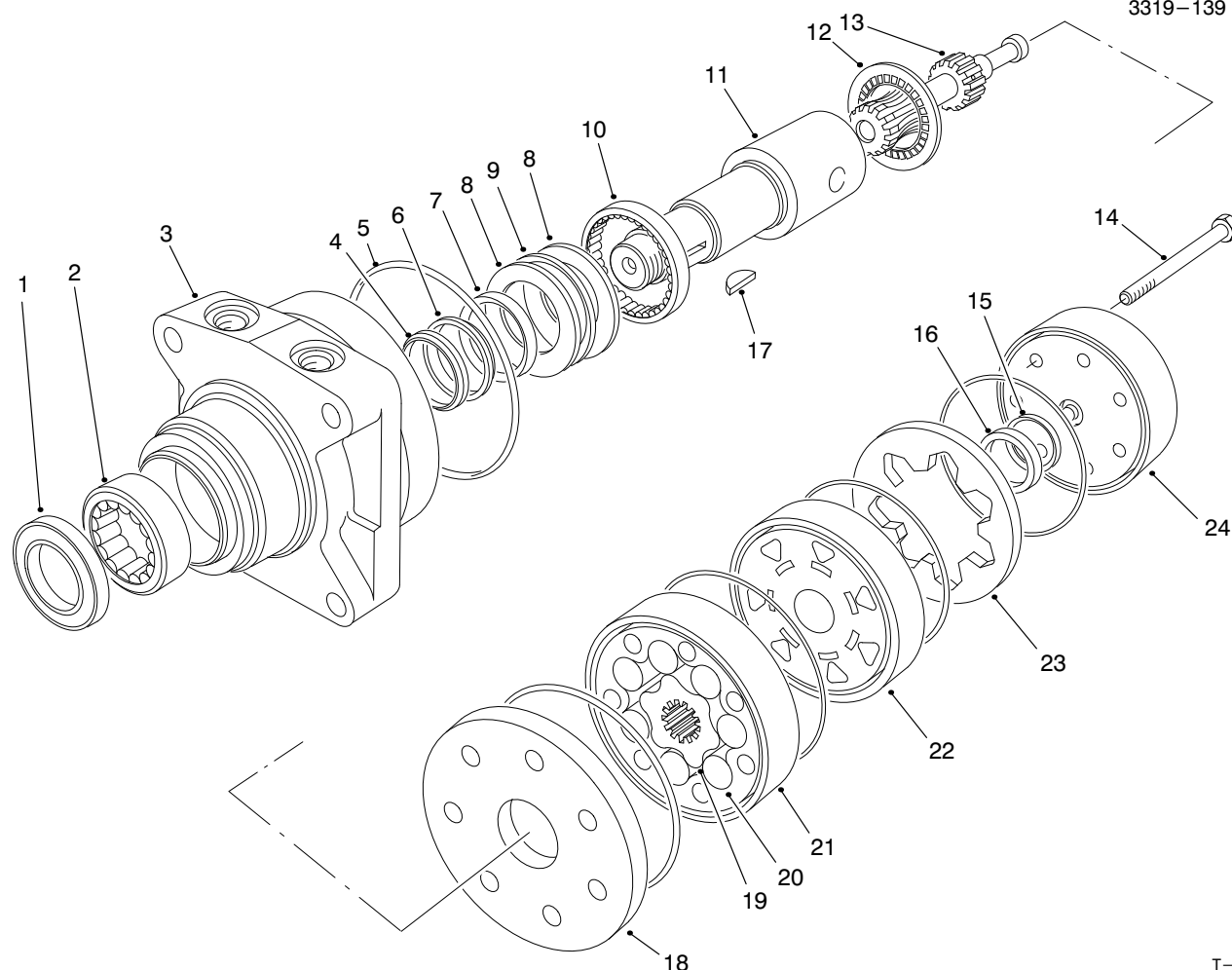
T-1282

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	3
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

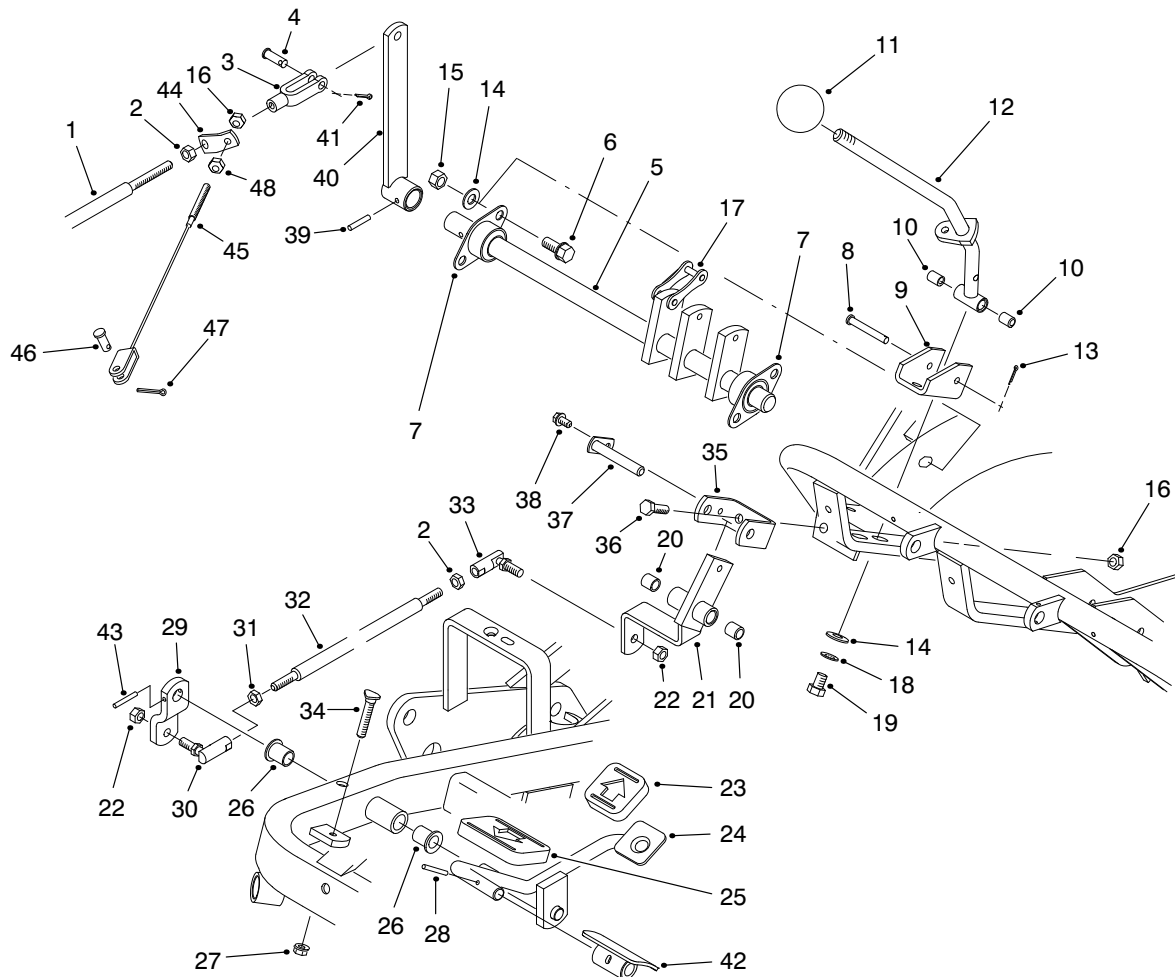


T-0983-2

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	*	94-8178	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				

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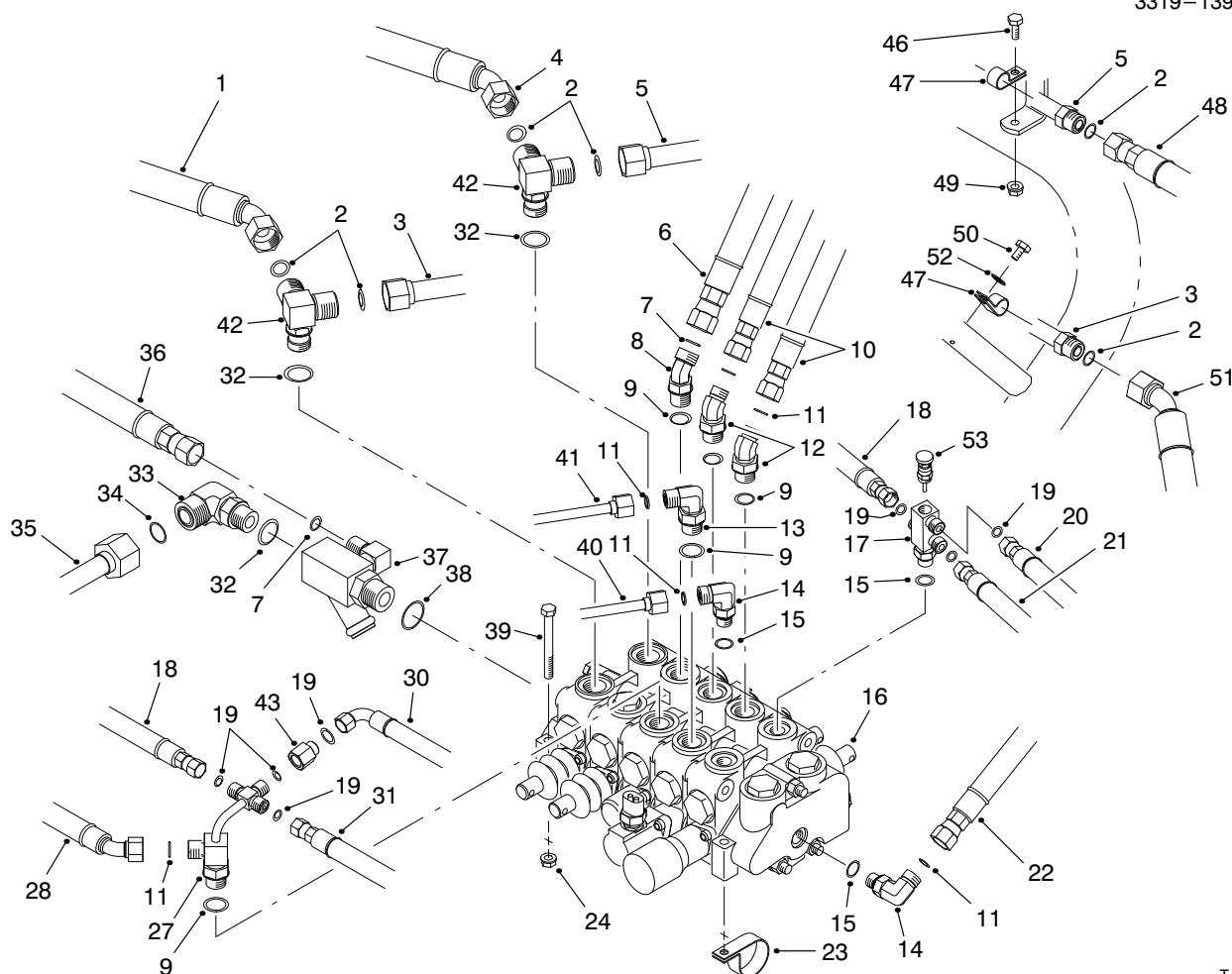


T-1287

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

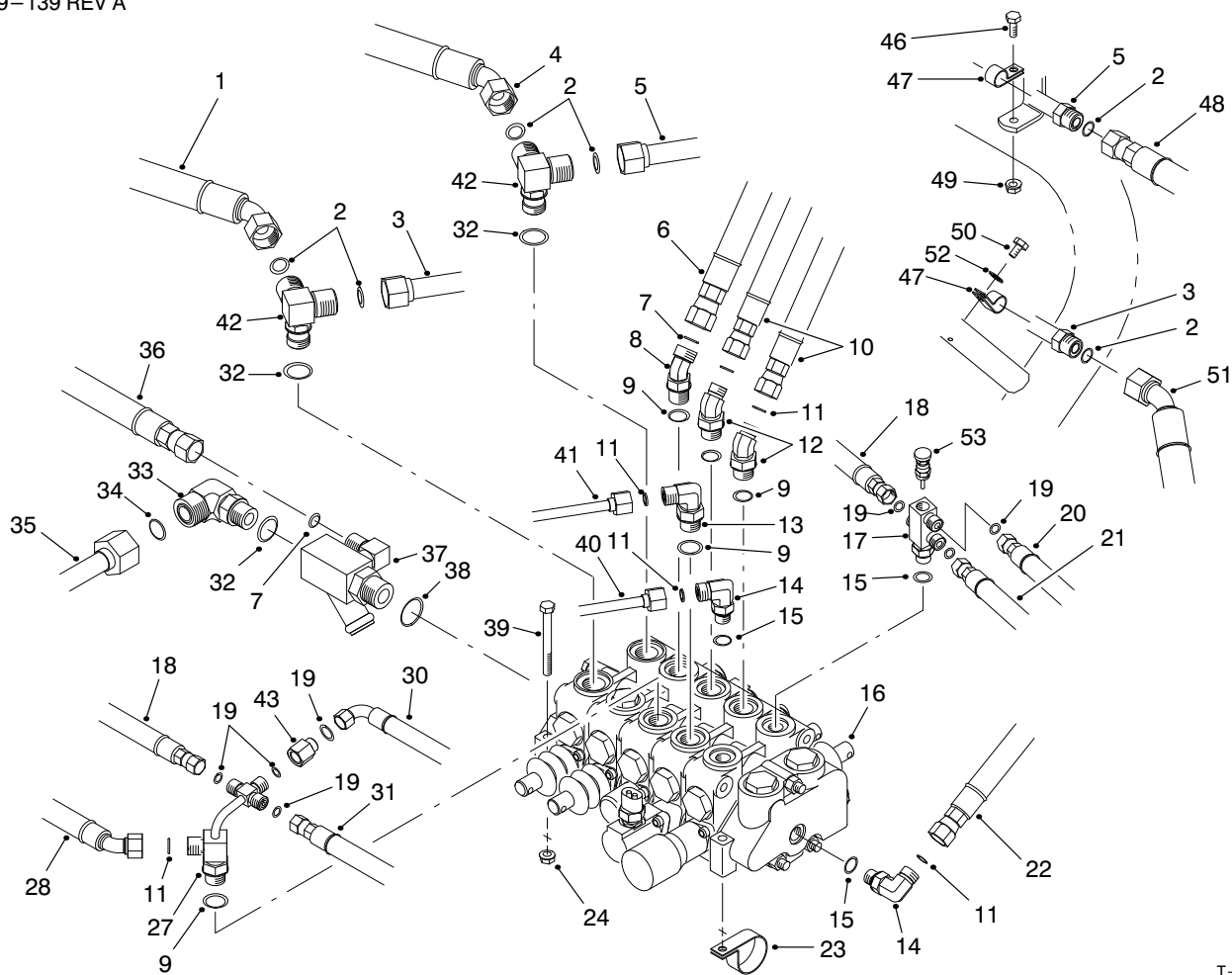
Ref. No.	Part No.	Description	No. Used
24	83-0540	Pedal - Traction	1
25	74-9100	Pad - Forward Pedal	1
26	256-155	Bushing - Flange	2
27	32128-20	Nut - Flange Lock	1
28	32121-45	Pin - Roll	1
29	83-0630	Arm - Traction Pivot	1
30	2411-42	Joint - Ball L.H. Thread	1
31	3220-20	Nut - Jam L.H. Thread	1
32	83-0580	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-2718-2

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	95-5986	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	237-21	Seal – O-Ring	6	35	63-4040	Tube – Hydraulic	1
12	340-138	Fitting – Hydraulic 45° (Incl. Ref. #9 & 11)	2	36	95-5987	Hose – Hydraulic	1
13	340-18	Fitting – Hydraulic 90° (Incl. Ref. #9 & 11)	1	37	63-4080	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	3	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	5	43	71-0990	Orifice (Incl. Ref. #19)	1
20	88-9700	Hose – Hydraulic	1	46	3234-4	Screw – Cap Hex. Hd.	1
21	83-1690	Hose – Hydraulic	1	47	2412-41	Clamp – R	2
				48	70-7150	Hose – Hydraulic	1

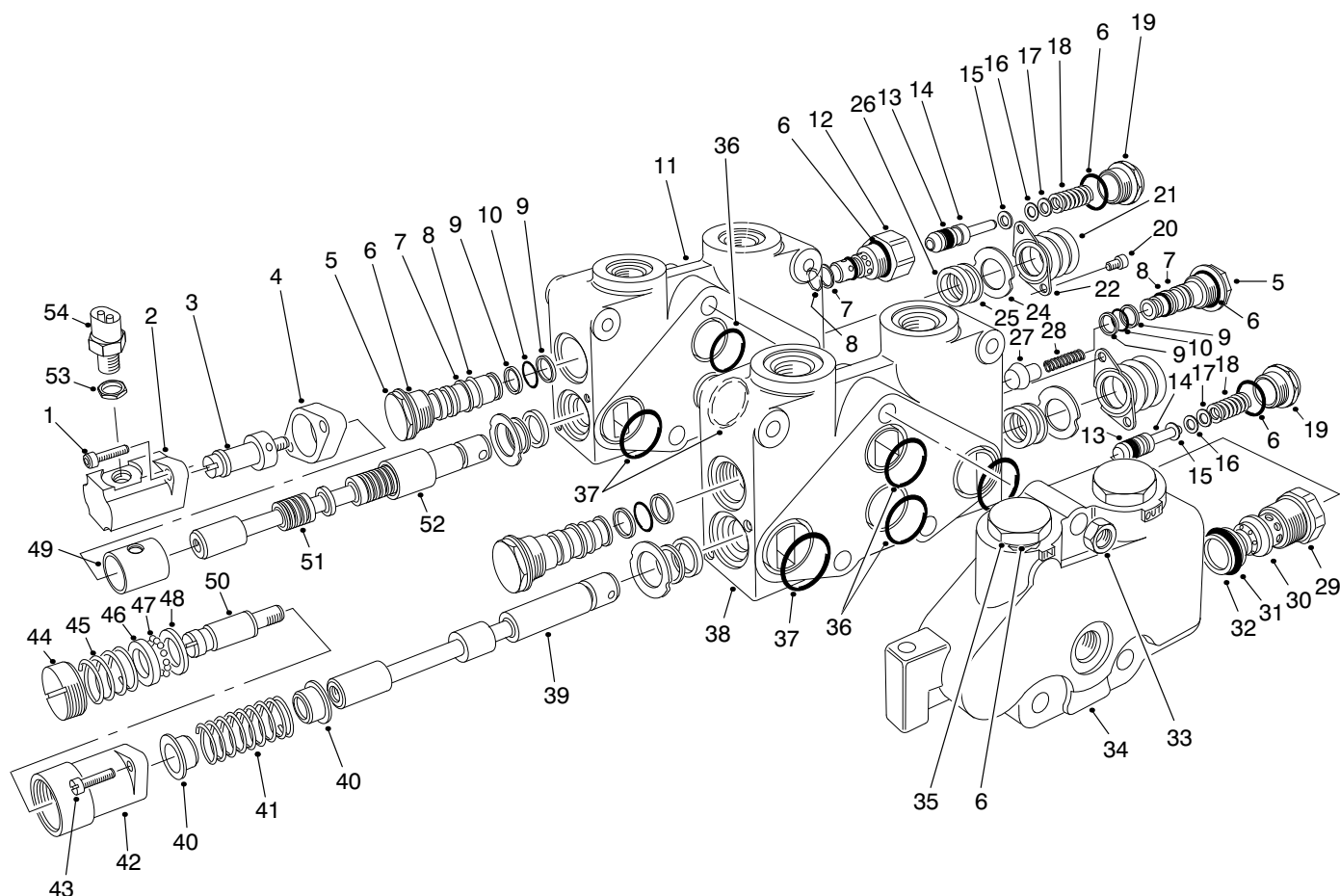


T-2718-2

CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
49	3296-16	Nut – Lock	1	53	93-2554	Valve – Needle	1
50	12-3270	Screw – Thread Forming	1	*	93-2556	Needle Valve Assembly	1
51	70-8610	Hose – Hydraulic	1			(Incl. Ref. #15, 17, 19 & 53)	
52	3256-22	Washer – Flat	1				

*Not Illustrated

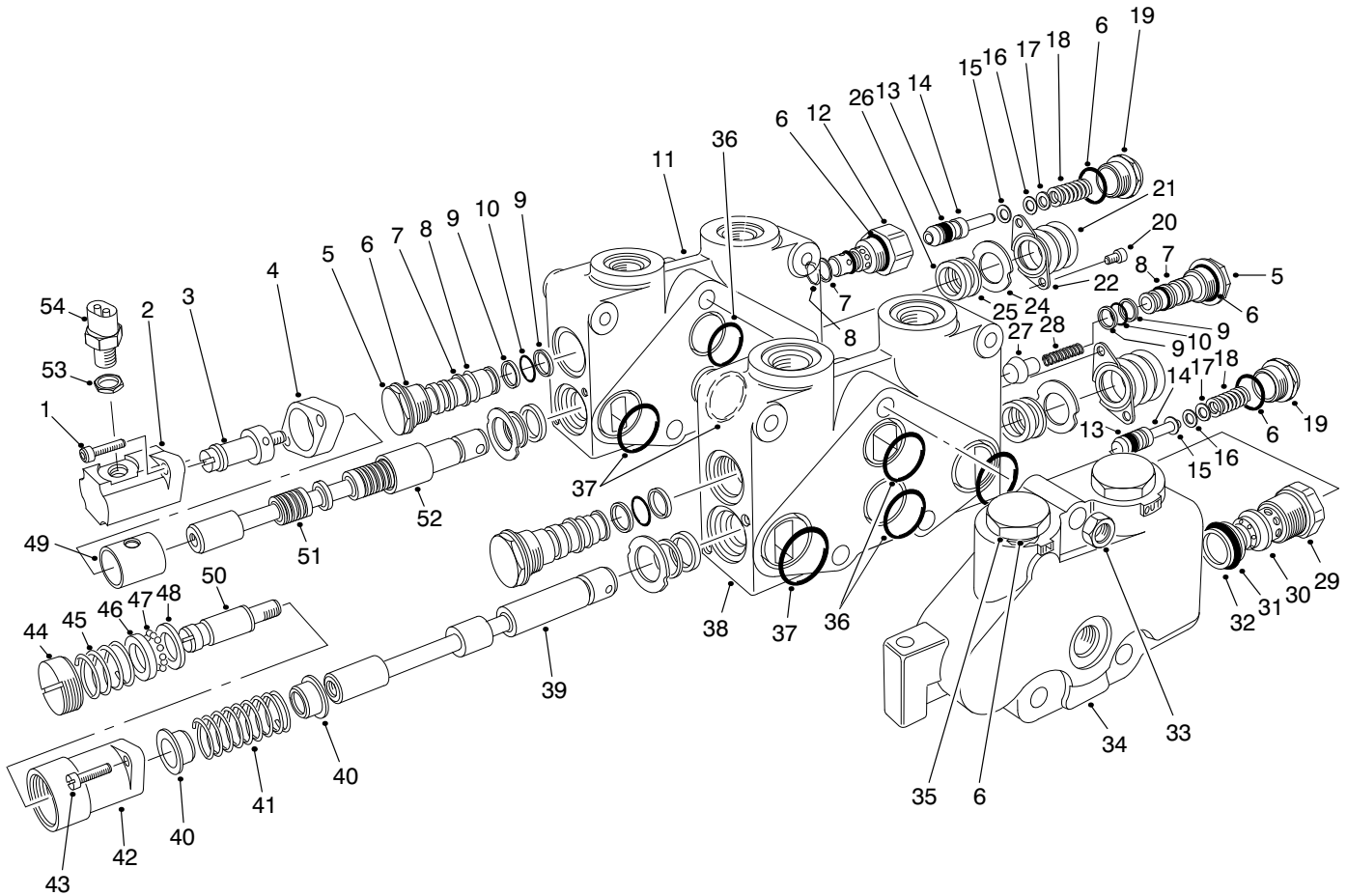


T-1318-4

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

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3274-70	Screw - Hex, Socket Hd.	2	25	92-2546	Wiper - Seal	4
2	353-727	Bonnet	1	26	353-957	Seal - Lip	4
3	353-729	Spud - Detent	1	27	353-301	Poppet	1
4	353-733	Spacer - Bonnet	1	28	353-304	Spring	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3	29	353-331	O-Ring	1
6	237-54	O-Ring	8	30	353-760	Body Relief	1
7	353-306	Ring - Backup	4	31	353-758	Seal - O-Ring	1
8	353-305	O-Ring	4	32	353-952	Ring - Backup	1
9	353-303	Ring - Backup	6	33	3217-7	Nut - Hex	3
10	353-302	O-Ring	3	34	353-772	Left End Cover	1
11		Housing V20T	1	35	353-721	Plug (Incl. Ref. #6)	2
12	353-851	Body - Relief CP-RC Mod.	1	†36		O-Ring	3
13	353-392	Seal - Relief Poppet PTFE	2	†37		O-Ring	4
14	353-531	Poppet Assy. (Incl. Ref. #13)	2	†38		Housing Section #1	1
15	353-328	Washer - Shim	A/R	†39		Spool V20 SPL	1
16	353-329	Washer - Shim	A/R	40	353-417	Collar Spring	2
17	353-330	Washer - Shim	A/R	41	92-3058	Spring - Centering	1
18	353-855	Spring	2	42	353-780	Bonnet - R. Detent	1
19	353-334	Cap - Relief	2	43	3274-15	Screw - Fillister Hd.	2
20	3274-52	Screw - Hex, Socket Hd.	4	44	353-780	Cap - Adjustment (Incl. Ref. #42)	1
21	353-575	Boot - Dust Cap	2	45	353-579	Spring	1
22	93-3651	Retainer - Boot	2	46	42-2680	Race R. Detent	1
24	92-2547	Plate - Seal Retainer	4	47	52-5880	Ball - Steel	12

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



T-1318-4

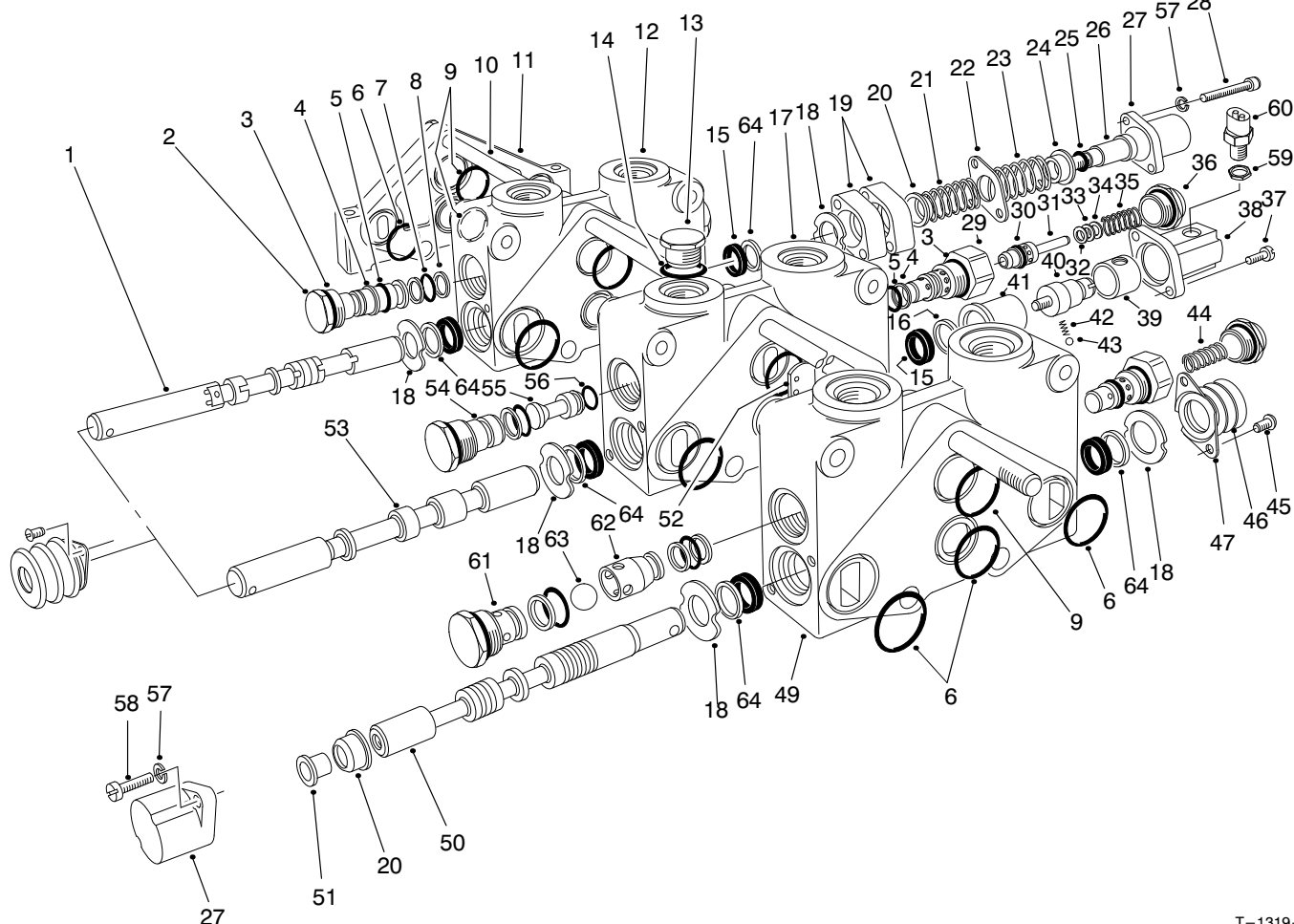
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
48	354-29	Plate - Thrust	1
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
*	84-2190	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

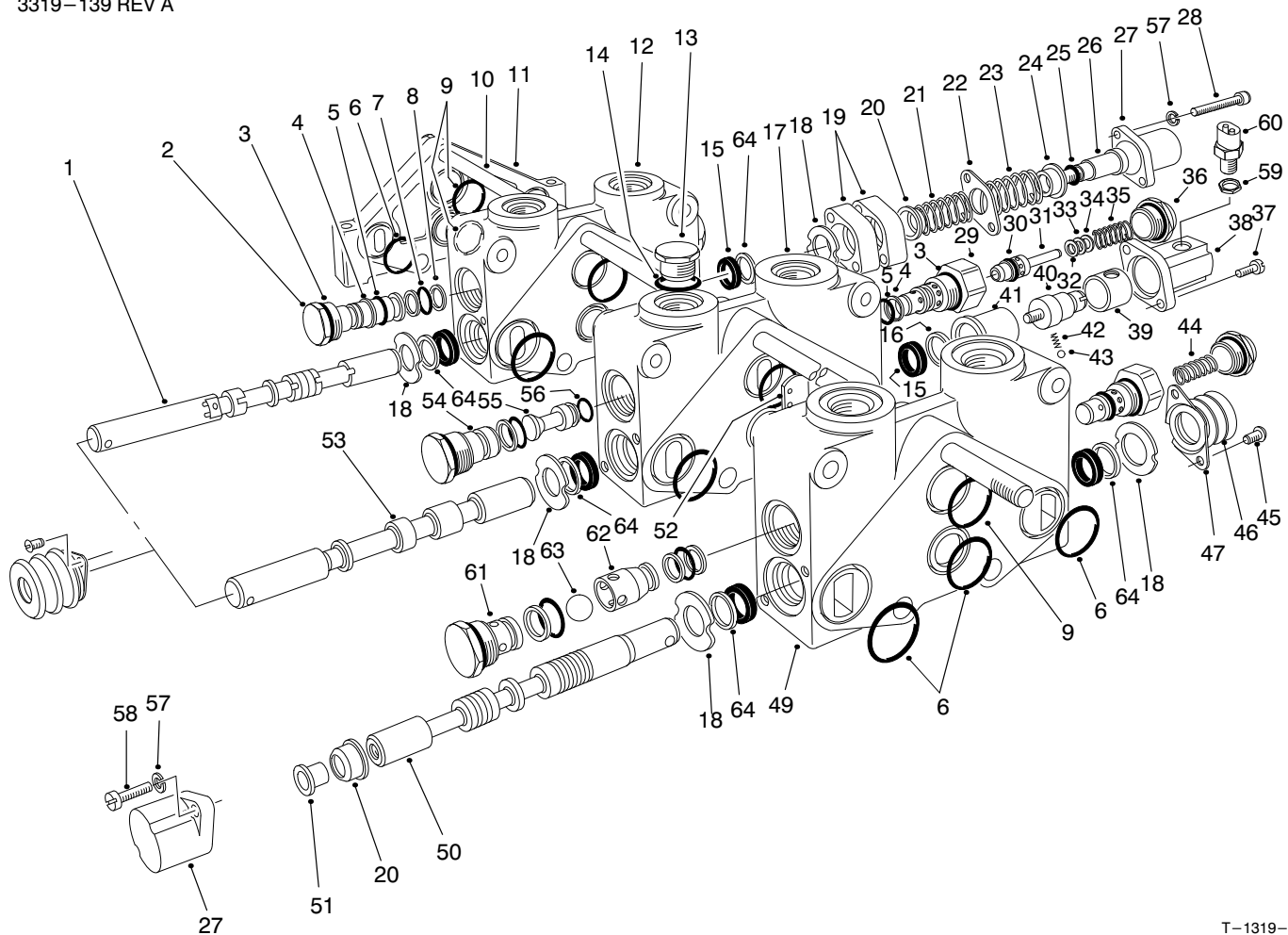


T-1319-2

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

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	94-5434	Spool #5	1	24	353-808	Collar - Spring	1
2	353-481	Plug - Load Check (Incl. Ref. #3-5 & 7-8)	3	25	353-830	O-Ring	1
3	237-54	O-Ring	6	26	94-4248	Collar Spool	1
4	353-306	Ring - Backup	5	27	354-26	Bonnet	2
5	353-305	O-Ring	5	28	354-28	Screw - Hex, Socket Hd.	2
†6		O-Ring	11	29	353-851	Body - Relief CP-RC Mod.	2
7	353-302	O-Ring	3	30	353-392	Seal - Relief Poppet PTFE	2
8	353-303	Ring - Backup	6	31	353-531	Poppet Assembly (Incl. Ref. #30)	2
†9		O-Ring	5	32	353-328	Washer - Shim	A/R
10	353-853	Bolt - Hex Hd.	3	33	353-329	Washer - Shim	A/R
11	353-668	Plate - Cap, Cover RH	1	34	353-330	Washer - Shim	A/R
12		Housing V20 #5	1	35	353-398	Spring	1
13	353-550	Plug Assembly (Incl. Ref. #14)	1	36	353-334	Cap - Relief	2
14	353-848	O-Ring	1	37	52-5900	Screw - Fillister Hd.	4
15	353-957	Seal - Lip	6	38	353-847	Bonnet (SPL)	1
16	353-958	Ring - Backup	1	39	353-849	Sleeve	1
†17		Housing V20 #4	1	40	353-846	Spud - DI (SPL)	1
18	92-2547	Plate - Seal Retainer	5	41	353-845	Sleeve - Detent	1
19	353-733	Spacer - Bonnet	2	42	353-730	Spring	1
20	353-417	Collar Spring	2	43	353-731	Ball	1
21	353-831	Spring	1	44	353-855	Spring	1
22	353-529	Plate Seal	1	45	3274-52	Screw - Hex. Socket Hd.	6
23	92-3148	Spring	1	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-1319-2

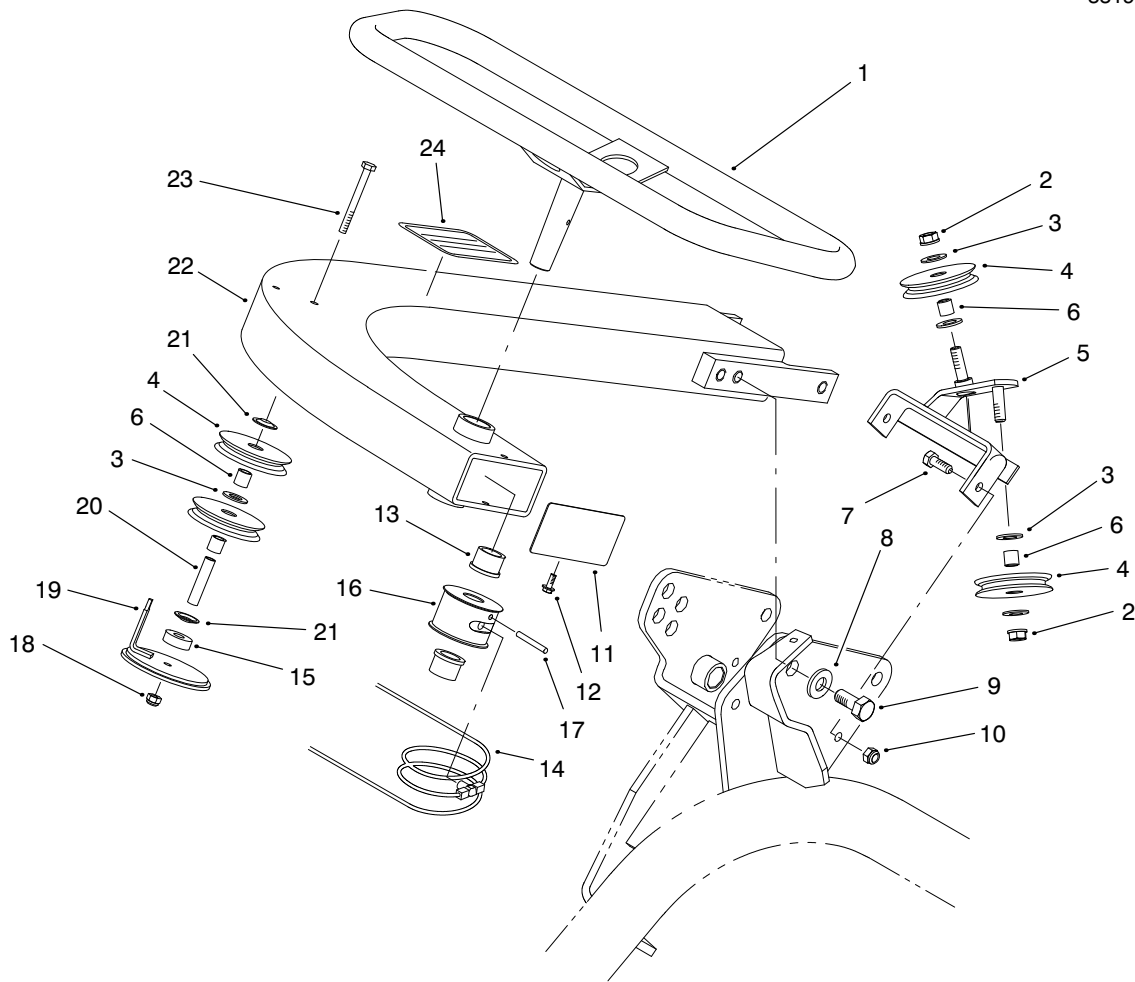
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

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

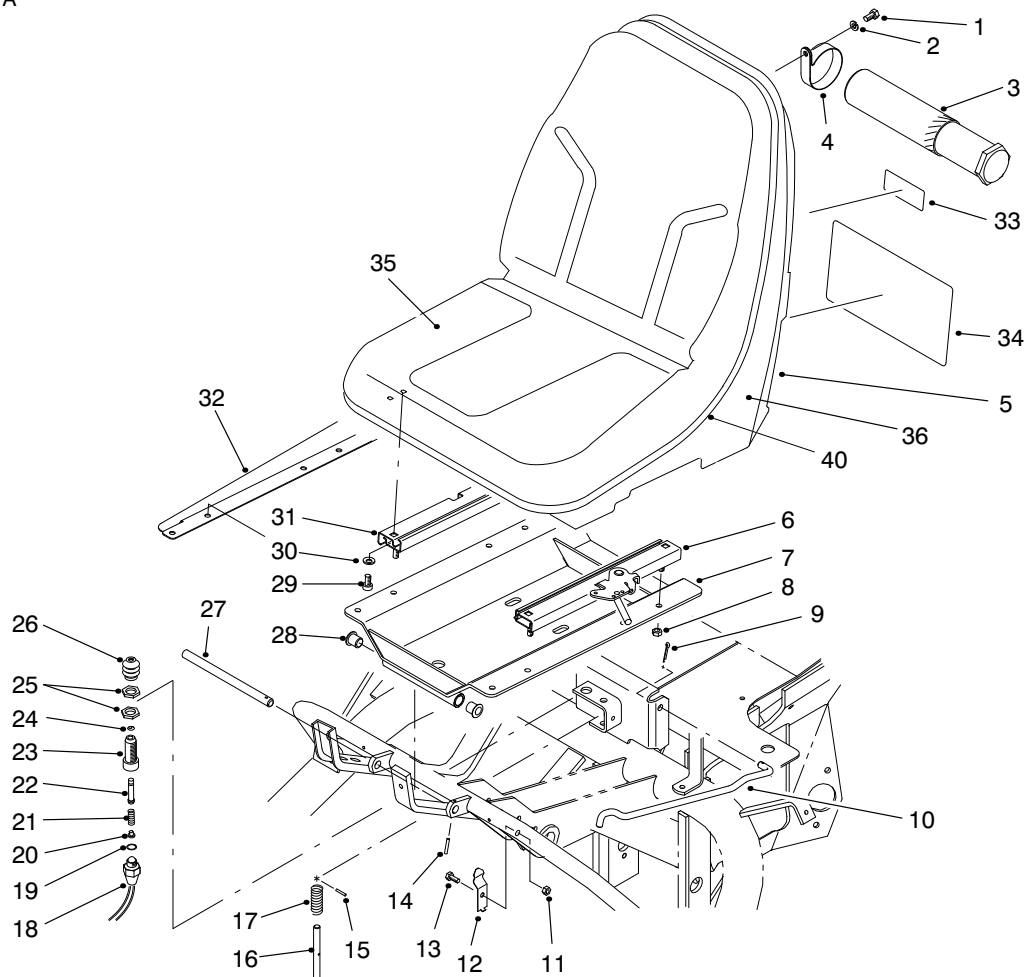
†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



T-2701-3

STEERING ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	49-5900	Wheel - Steering	1	13	256-113	Bushing	2
2	3296-59	Nut - Lock	2	14	95-5965	Cable - Steering	1
3	3256-4	Washer - Flat	5	15	95-5963	Spacer - Pulley	1
4	5-2653	Pulley Assembly (Incl. Ref. #6)	4	16	95-7149	Pulley - Front Steering	1
5	95-2932	Bracket - Pulley	1	17	32121-44	Pin - Roll	1
6	256-2	Bushing	4	18	3296-16	Nut - Lock	1
7	322-4	Screw - HH	2	19	95-5959	Pulley - Support	1
8	3256-26	Washer - Flat	4	20	10-7240	Sleeve	1
9	325-2	Screw - HH	4	21	3290-314	Nut - Push	2
10	3296-29	Nut - Lock	2	22	95-2941	Steering Arm Assembly	1
11	95-7140	Tube - Cap	1	23	321-15	Screw - HH	1
12	32104-76	Screw - Acorn	2	24	93-8063	Decal - Danger	1



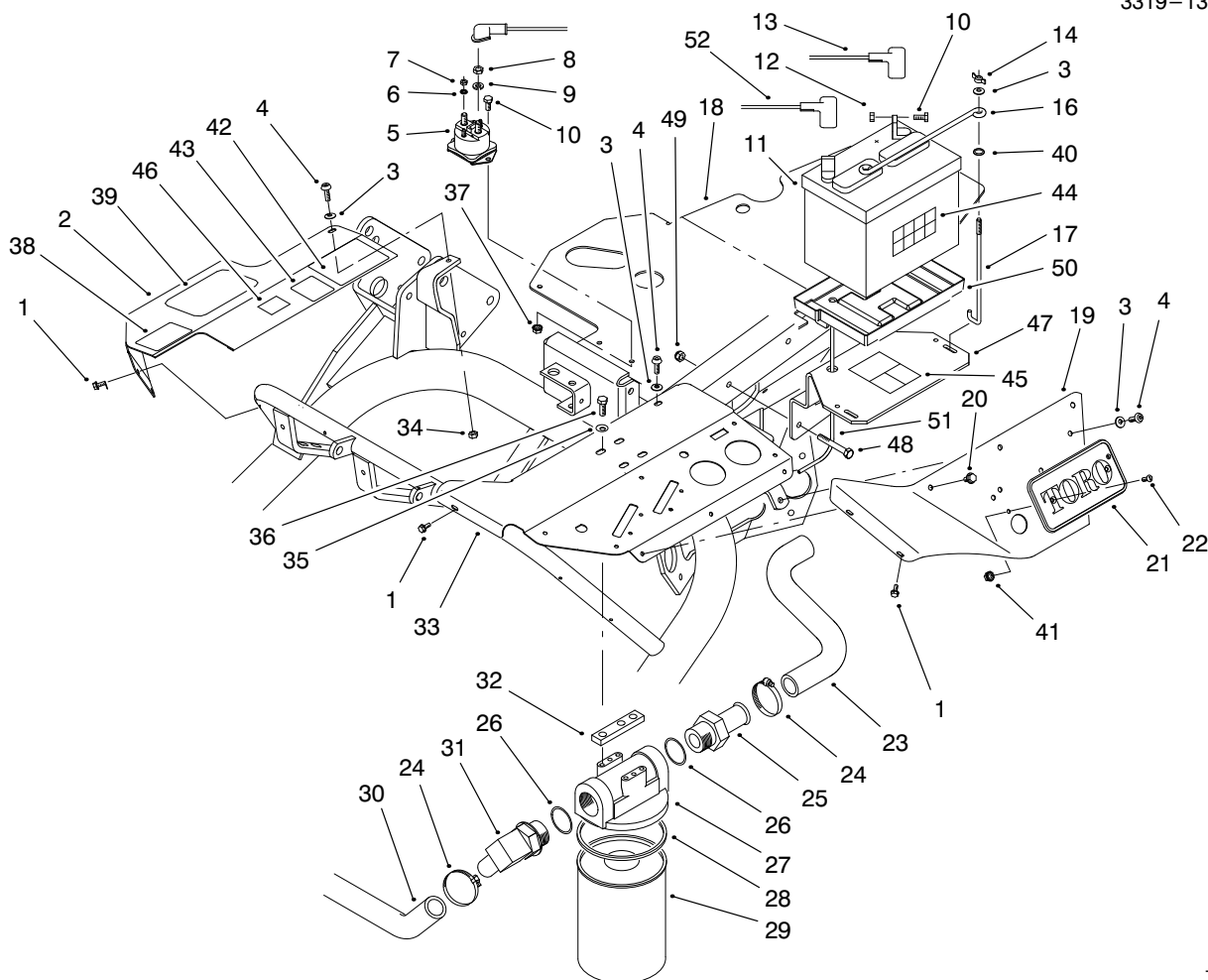
T-1290-2

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
34	95-7113	Decal - Service	1
34	95-7124	Decal - Service (Spanish)	1
34	95-7125	Decal - Service (French)	1
34	95-7126	Decal - Service (German)	1
34	95-7127	Decal - Service (Swedish)	1
34	95-7128	Decal - Service (Italian)	1
34	95-7129	Decal - Service (Portuguese)	1
34	95-7130	Decal - Service (Norwegian)	1
34	95-7131	Decal - Service (Finnish)	1
34	95-7132	Decal - Service (Danish)	1
34	95-7133	Decal - Service (Dutch)	1
34	95-7143	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

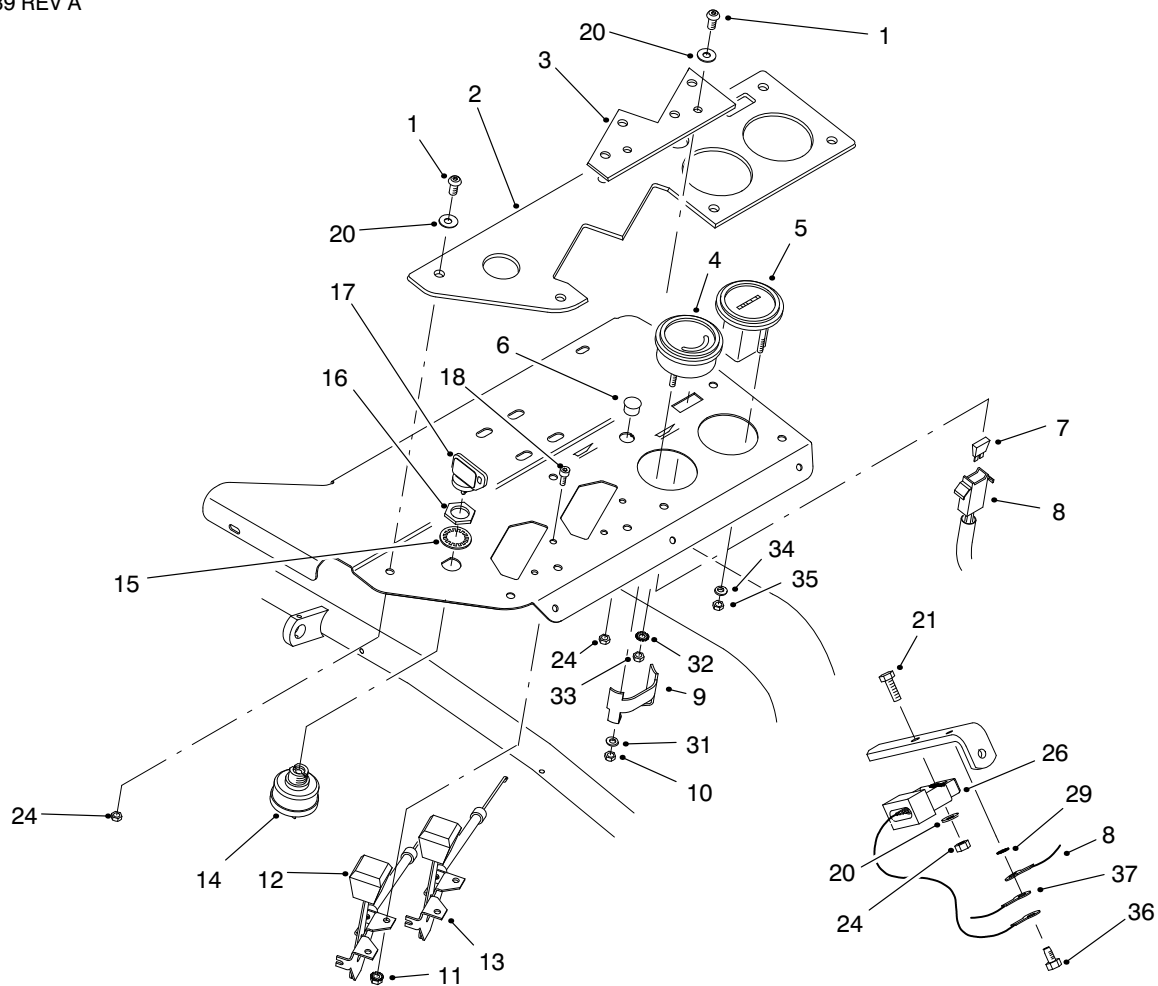
*Not Illustrated



T-2702-2

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32104-76	Screw - Self Tapping	5	28	72-3850	Seal - Filter	1
2	94-2694	Cover - R.H.	1	29	74-3570	Filter - Hydraulic Oil (Incl. Ref. #28)	1
3	3256-22	Washer - Flat	5	30	68-5880	Hose - Hydraulic	1
4	3274-69	Screw - Hex. Socket Hd.	3	31	353-564	Fitting - Hydraulic 90° (Incl. Ref. #26)	1
5	28-4210	Solenoid - Starter	1	32	27-2380	Spacer	2
6	3254-1	Washer - Lock	2	33	83-0830	Panel - Control Upper	1
7	3219-14	Nut - Hex.	2	34	3296-16	Nut - Lock	3
8	3218-13	Nut - Jam	2	35	3256-23	Washer - Flat	4
9	3253-4	Washer - Lock	2	36	322-4	Screw - Cap Hex. Hd.	4
10	321-3	Screw - Cap Hex. Hd.	4	37	32149-2	Nut - Keps	2
11	28-1400	Battery	1	38	93-8065	Decal - Traction	1
12	3217-5	Nut - Hex.	2	39	67-1300	Decal - TORO	1
13	28-8080	Boot Terminal	1	40	237-143	Grommet	2
14	32103-12	Nut - Wing	2	41	32149-7	Nut - Keps	2
16	72-4790	Hold-Down - Battery	1	42	92-5524	Decal - Noise Rating	1
17	56-7720	Bolt - Battery	2	43	63-9920	Decal - EEC	1
18	95-5981	Frame Assembly	1	44	93-7276	Decal - Danger	1
19	83-0840	Fender - L.H.	1	45	93-6668	Decal - Danger	1
20	46-8560	Screw - Self Taping	3	46	93-7252	Decal - C.E. Mark	1
21	61-3310	Plate - Logo	1	47	95-7122	Battery Base Assembly	1
22	3290-470	Screw - Flat Hd.	2	48	322-11	Screw - HH	2
23	95-7119	Hose - Hydraulic	1	49	3296-29	Nut - Hex. Lock	2
24	2412-34	Clamp - Hose	3	50	106948	Tray - Battery	1
25	353-563	Fitting - Hydraulic Straight (Incl. Ref. #26)	1	51	98-0601	Tube - Battery Drain	1
26	237-101	Seal - O-Ring	2	52	98-0603	Boot - Terminal	1
27	44-5560	Head - Oil Filter	1				

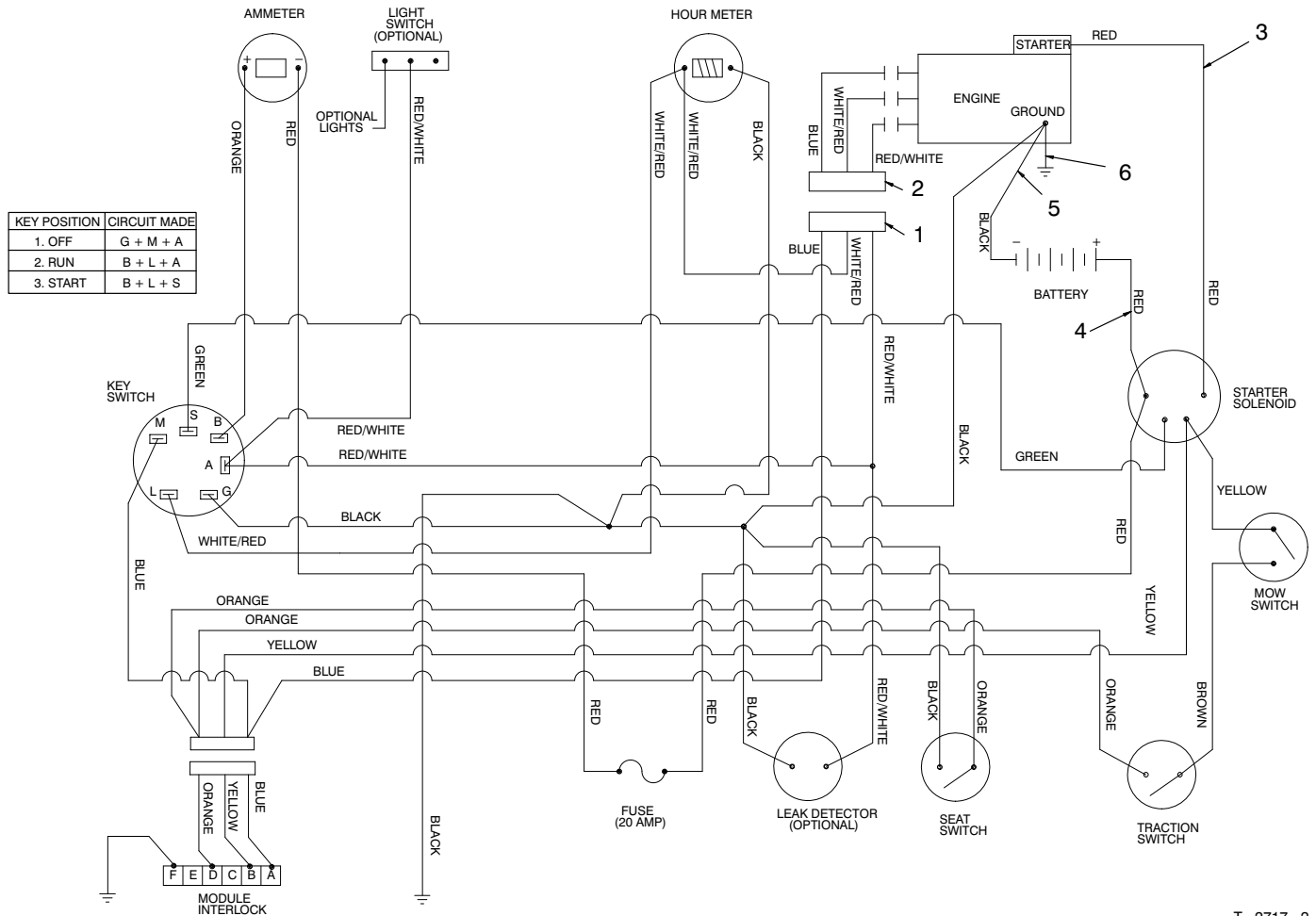


T-2714-2

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274-69	Screw - Hex. Socket Hd.	8
2	93-8061	Plate - Control	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	2410-64	Plug - Hole	1
7	218-594	Fuse - 20 Amp	1
8	95-7142	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

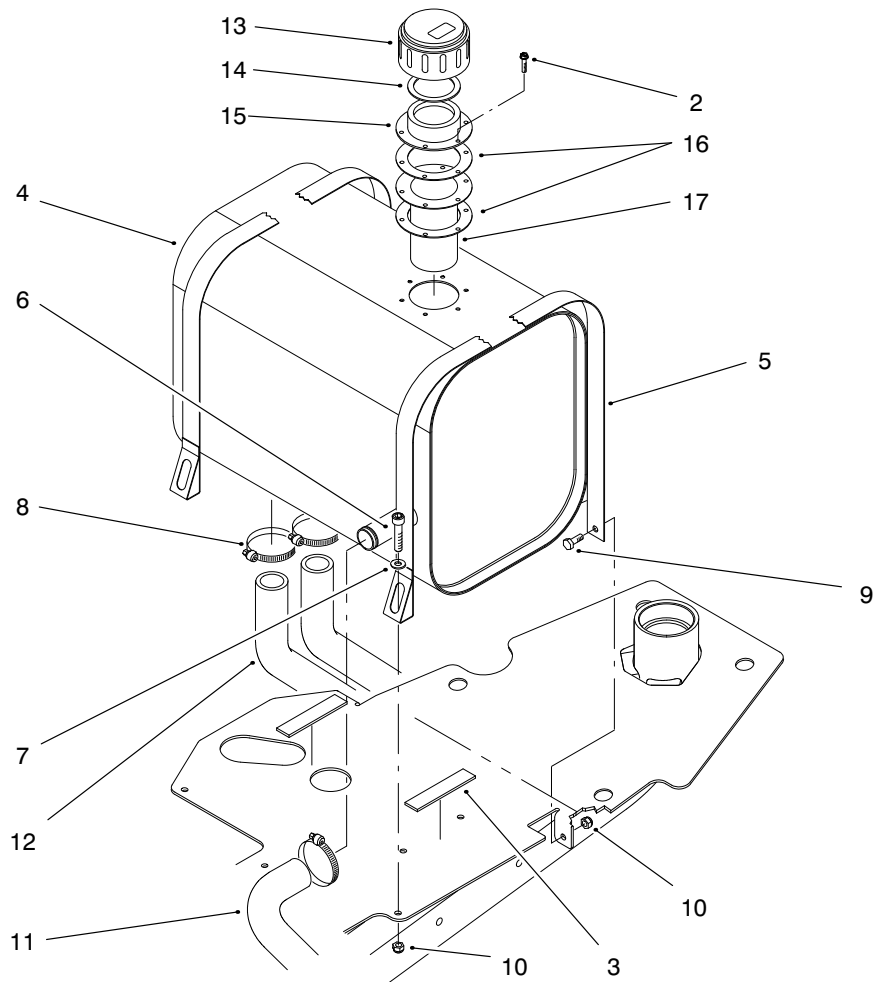
Ref. No.	Part No.	Description	No. Used
15	3254-5	Washer - Lock	2
16	218-461	Nut - Hex.	2
17	63-8360	Key - Ignition	1
18	3273-26	Screw - Hex. Socket Hd.	4
20	3256-1	Washer - Flat	9
21	321-5	Screw - Cap Hex. Hd.	1
24	3296-16	Nut - Lock	9
26	95-0659	Module - Interlock	1
29	3255-7	Washer - Lock, Int. Tooth	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	32104-95	Screw - Hex. Hd.	1
37	95-7145	Wire Asm - Engine Ground	1



T-2717-2

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	95-7142	Harness – Wire (Main)	1	4	95-7144	Cable Assembly – Positive	1
2	83-1110	Harness – Wire (Engine)	1	5	98-0604	Wire – Engine Ground	1
3	83-1160	Wire – Solenoid-Starter	1	6	95-7145	Wire – Engine Ground	1

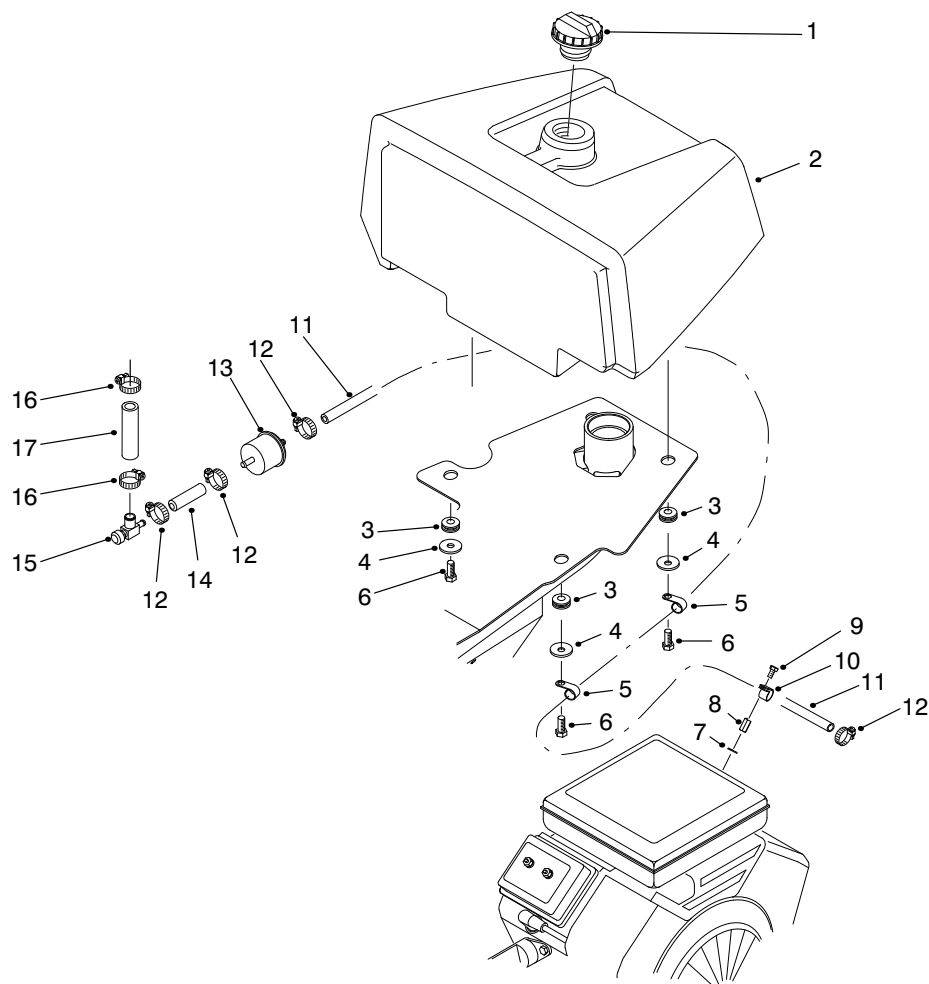


T-2703-1

HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
2	32144-34	Screw - Hex. Slot	6	11	95-7119	Hose - Return Line	1
3	95-5951	Strip - Seal	2	12	95-5966	Hose - Pump Inlet	2
4	95-7118	Tank - Hydraulic	1	13	353-962	Cap	1
5	27-2400	Strap - Reservoir Assembly	2	14	76-1720	Gasket - Filler Cap	1
6	3274-19	Screw - Hex. Socket Hd.	2	15	353-961	Flange	1
7	3256-22	Washer - Flat	2	16	353-963	Gasket	2
8	2412-34	Clamp - Hose	3	17	62-2610	Strainer - Filler Cap	1
9	321-3	Screw - Hex. Hd.	2	*	62-2570	Filler Cap Assembly (Incl. Ref. #13-17)	1
10	3296-16	Nut - Lock	4				

*Not Illustrated

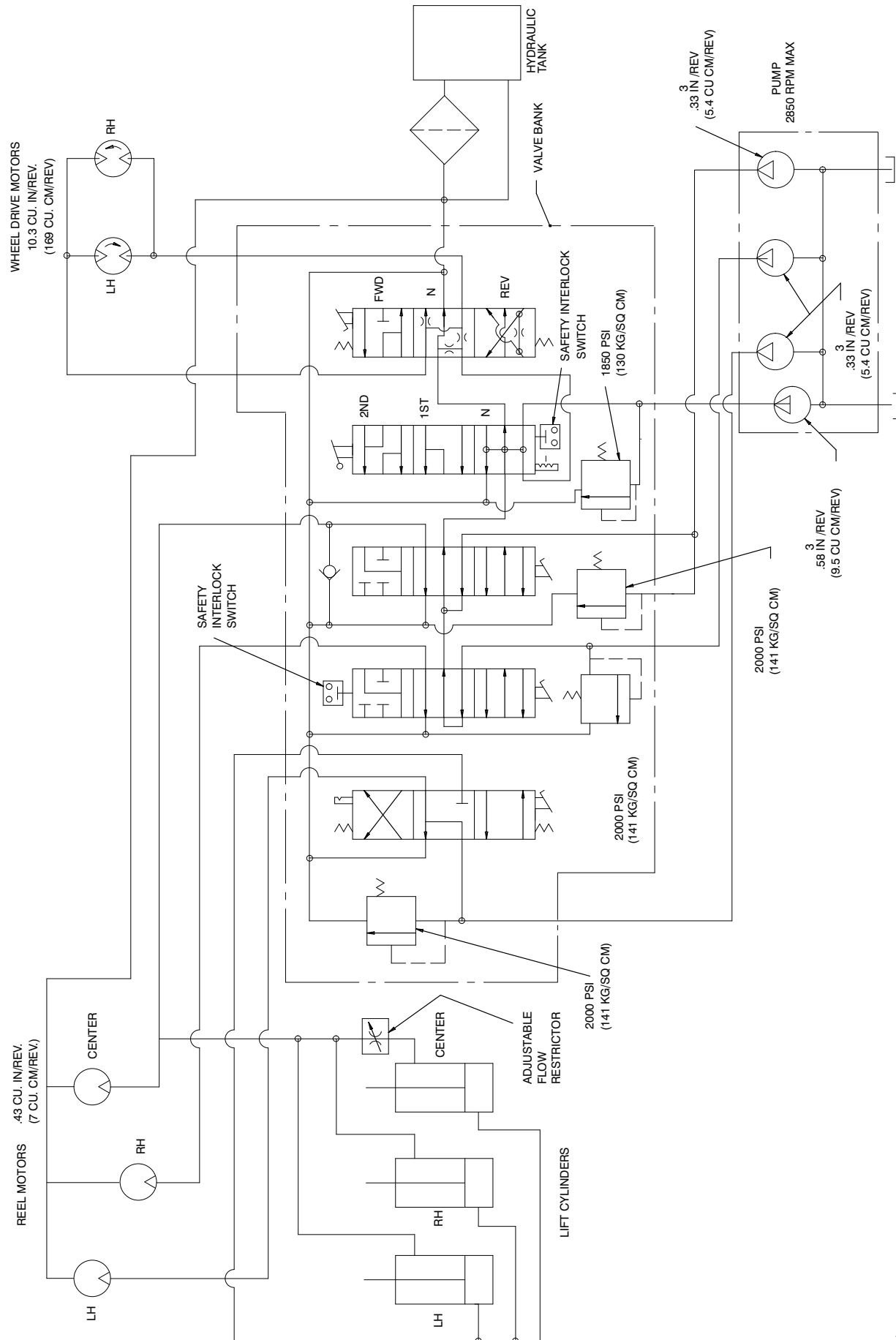


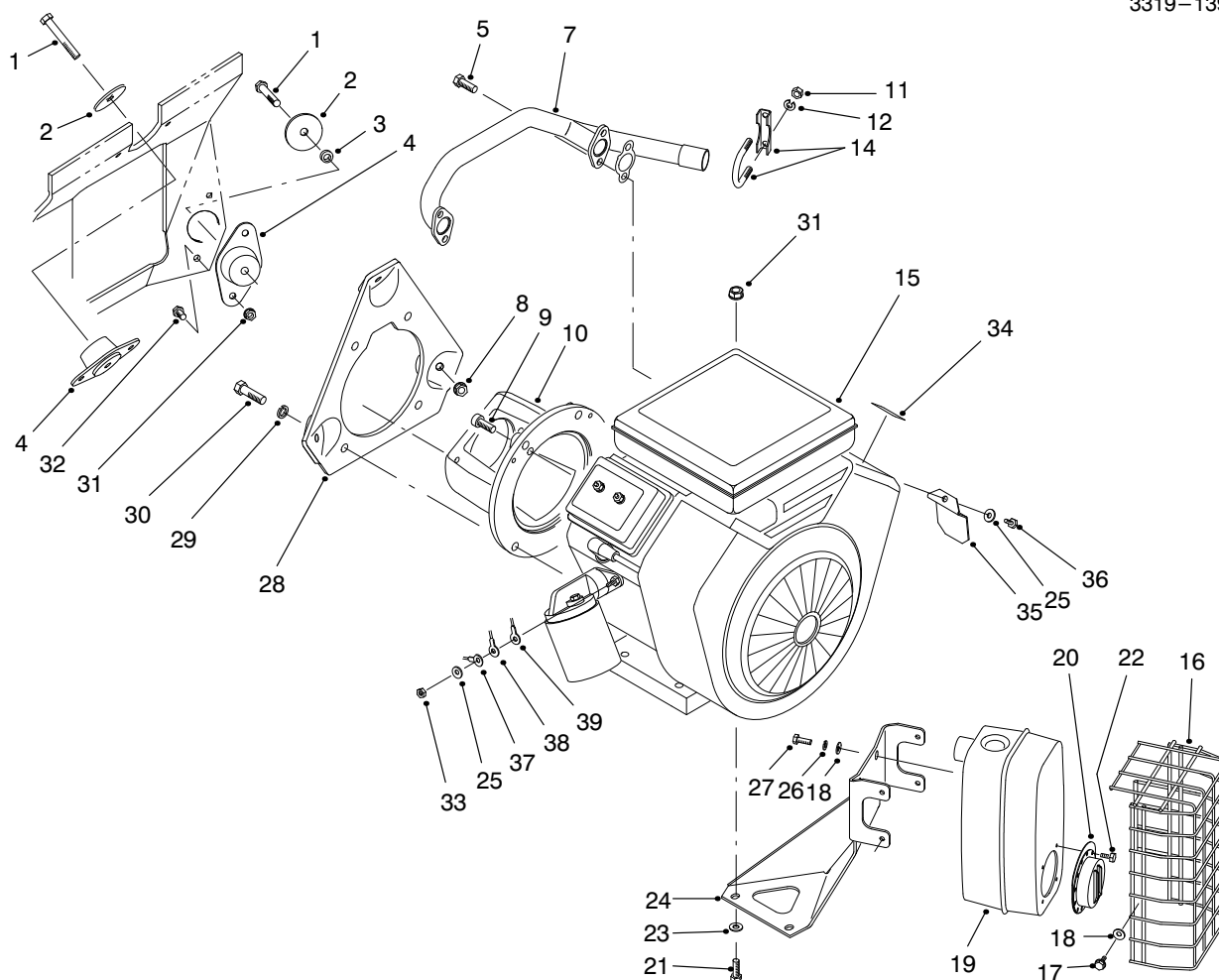
T-1317

FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	93-7170	Cap - Fuel	1	10	2412-94	Clamp - R	1
2	92-7189	Tank - Fuel	1	11	83-2041	Hose - Fuel	1
3	240-11	Grommet	4	12	2412-108	Clamp - Hose	4
4	63-8410	Washer - Flat	4	13	94-2690	Filter - Fuel	1
5	2412-41	Clamp - R	3	14	83-2040	Hose - Fuel	1
6	323-6	Screw - Cap Hex. Hd.	3	15	83-1390	Fitting - Fuel Shut-Off	1
7	3256-63	Washer - Flat	1	16	2412-36	Clamp - Hose	2
8	83-2200	Nut - Special	1	17	56-2230	Hose - Fuel	1
9	48-7610	Screw - Cap Hex. Hd.	1				

HYDRAULIC SCHEMATIC





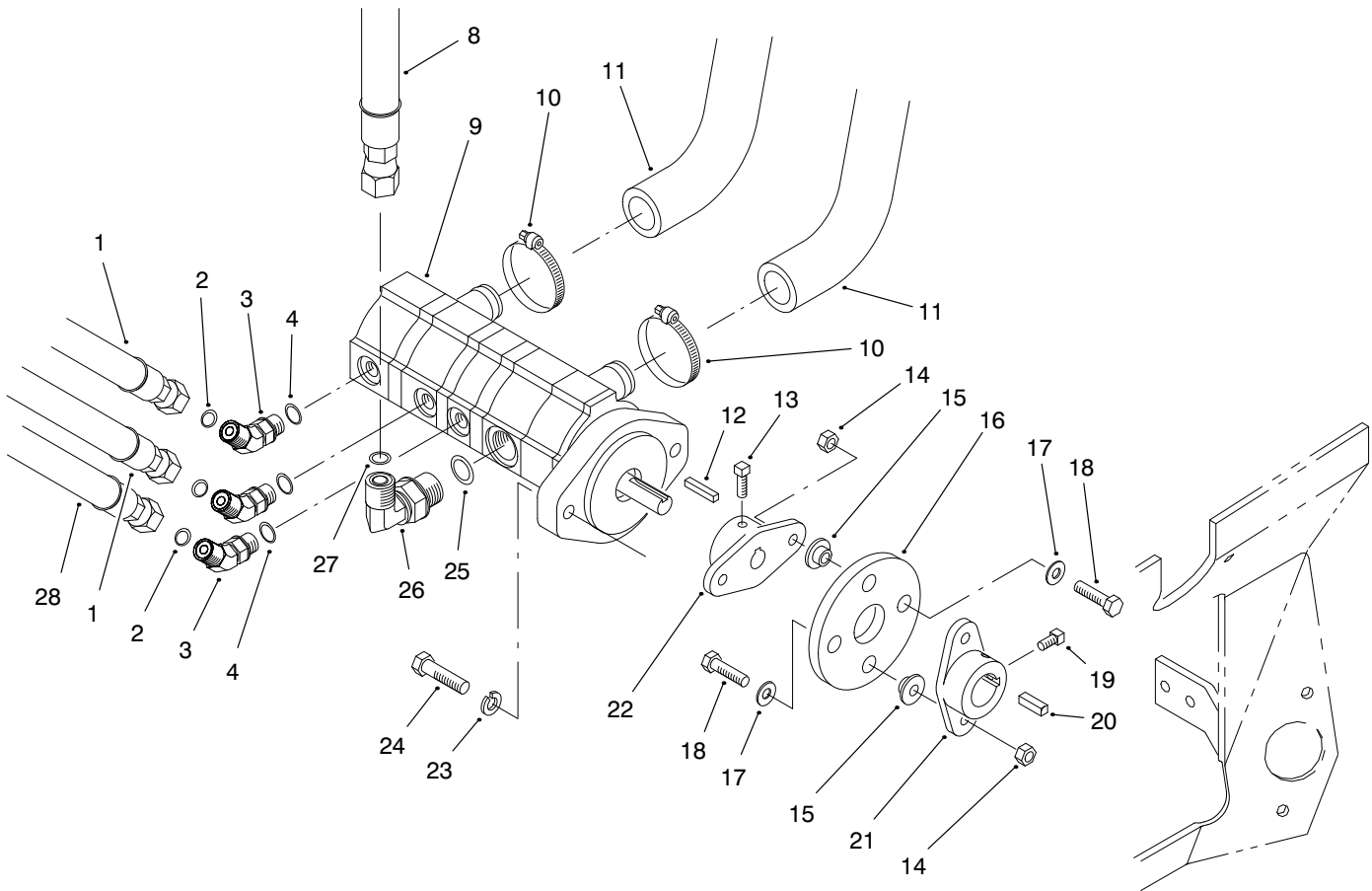
T-1293-3

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	323-12	Screw - Cap Hex. Hd.	3	21	322-8	Screw - Cap Hex. Hd.	2
2	83-1040	Washer - Mount	3	†22	93705	Screw - Cap Hex. Hd.	4
3	83-1050	Spacer - Mount	2	23	3256-23	Washer - Flat	2
4	83-1030	Mount - Engine	3	24	83-1630	Bracket - Muffler Support	1
5		Screw - Cap Hex. Hd.	4	25	43-5930	Washer - Lock	2
7	83-1080	Pipe - Exhaust	1	26	3253-3	Washer - Lock	4
8	3290-357	Nut - Flange Lock	3	27	49-2040	Screw - Thread Forming	4
9	3274-7	Screw - Socket Hd.	2	28	85-8120	Plate - Engine Mount	1
10	83-1060	Adapter - Pump	1	29	3253-6	Washer - Lock	4
11		Nut - Hex.	2	30	324-7	Screw - Cap Hex. Hd.	4
12		Washer - Lock	2	31	32128-20	Nut - Flange Lock	8
14	2112-11	Clamp - Muffler (Incl. Ref. #11 & 12)	1	32	322-3	Screw - Cap Hex. Hd.	6
15	83-0010	Engine Assembly (Incl. Ref. #5)	1	33	43-2830	Nut - Hex	1
16	83-1400	Shield - Muffler	1	34	93-8069	Decal - Warning	1
17	12-3270	Screw - Hex. Washer Hd.	4	35	83-2310	Shield	1
	3256-1	Washer - Flat	8	36	48-7620	Screw - Cap Hex. Hd.	1
†19	494664	Muffler	1	37	95-7145	Wire Asm - Engine Ground	1
*	83-2240	Arrestor - Spark (Optional)	1	38	95-7142	Wire Harness - Main	1
†20	222902	Deflector - Exhaust	1	39	98-0604	Cable Assembly - Negative	1
				*	3290-378	Tie - Cable	2
				*	250-6	Tie - Cable	2

*Not Illustrated

†Obtain replacement parts from your local Briggs & Stratton Dealer.

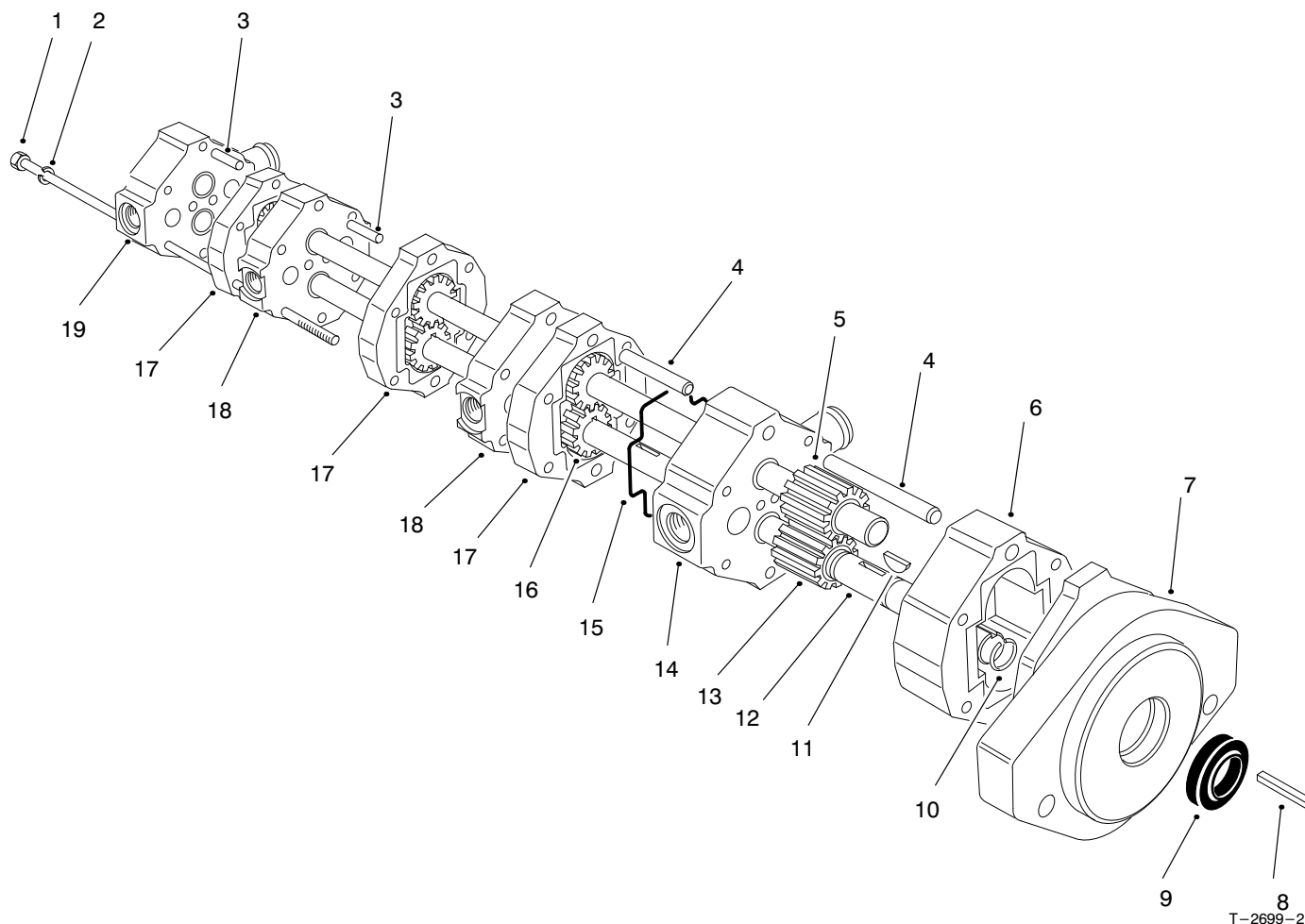


T-2698-1

HYDRAULIC PUMP INSTALLATION ASSEMBLY

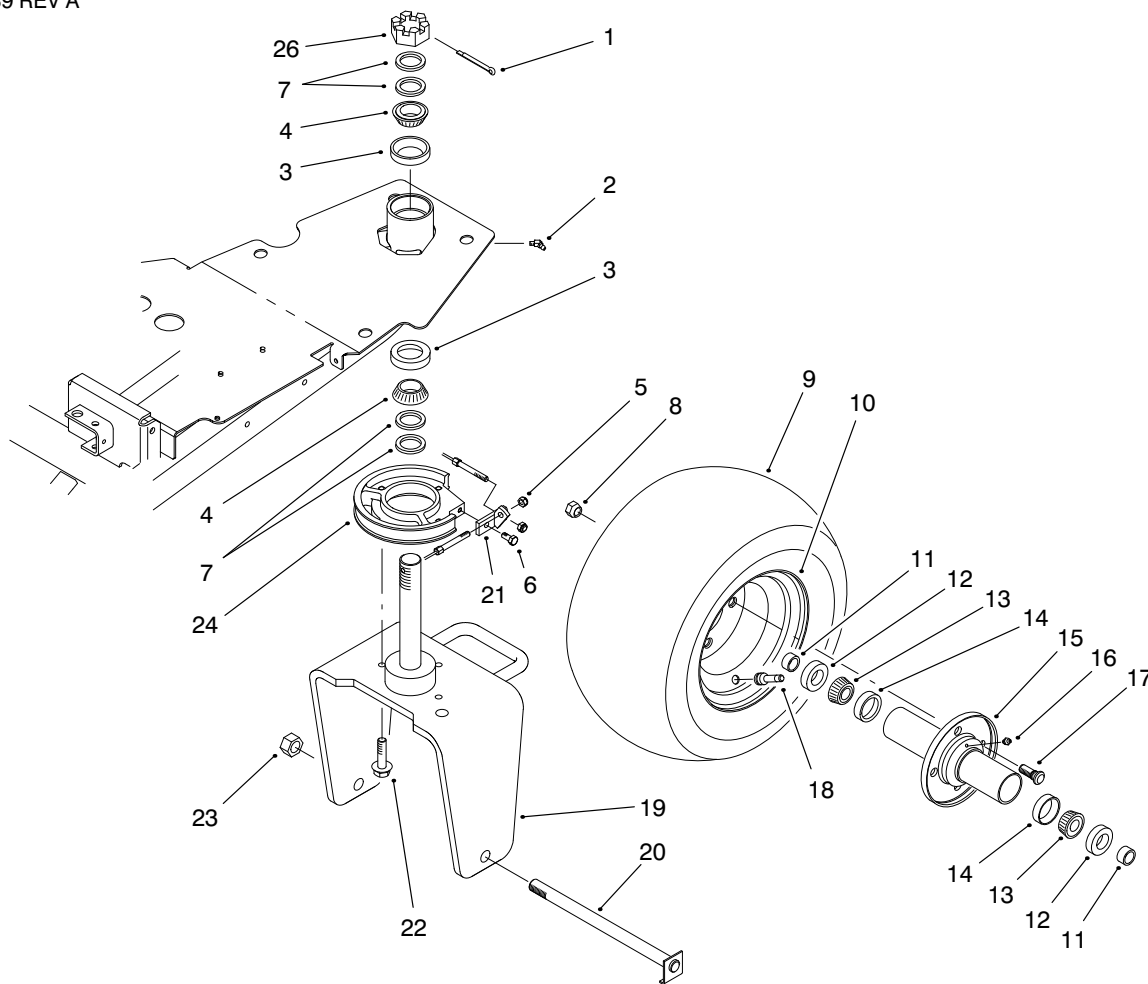
Ref. No.	Part No.	Description	No. Used
1	83-1190	Hose - Hydraulic	2
2	237-22	Seal - O-Ring	3
3	340-87	Fitting - Hydraulic 45° (Incl. Ref. #2 & 4)	3
4	237-42	Seal - O-Ring	3
8	83-1180	Hose - Hydraulic	1
9	95-5976	Hydraulic Pump Assembly (Incl. Ref. #12)	1
10	2412-34	Clamp - Hose	2
11	95-5966	Hose - Pump	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	4
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



HYDRAULIC PUMP NO. 95-5976

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	354-16	Washer - Lock	4	11	353-884	Key - Woodruff	5
2	98-0614	Stud - Threaded	4	12	98-0609	Shaft - Drive	1
3	354-11	Pin - Dowel	4	13	92-9773	Gear - 59B	2
4	98-0610	Pin - Dowel	4	14	353-3	Bearing Plate Assembly	1
5	98-0608	Idle Shaft	1	15	353-922	Seal - Ring	8
6	353-919	Plate - Gear Pump B	1	16	353-967	Gear - 33B	6
7	98-0611	Body Assembly	1	17	353-969	Plate - Gear 33B	3
8	5-0946	Key - Square	1	18	98-0612	Bearing Plate Assembly	2
9	354-15	Seal - Shaft	1	19	98-0613	Cover Assembly	1
10	353-886	Ring - Retaining	4				

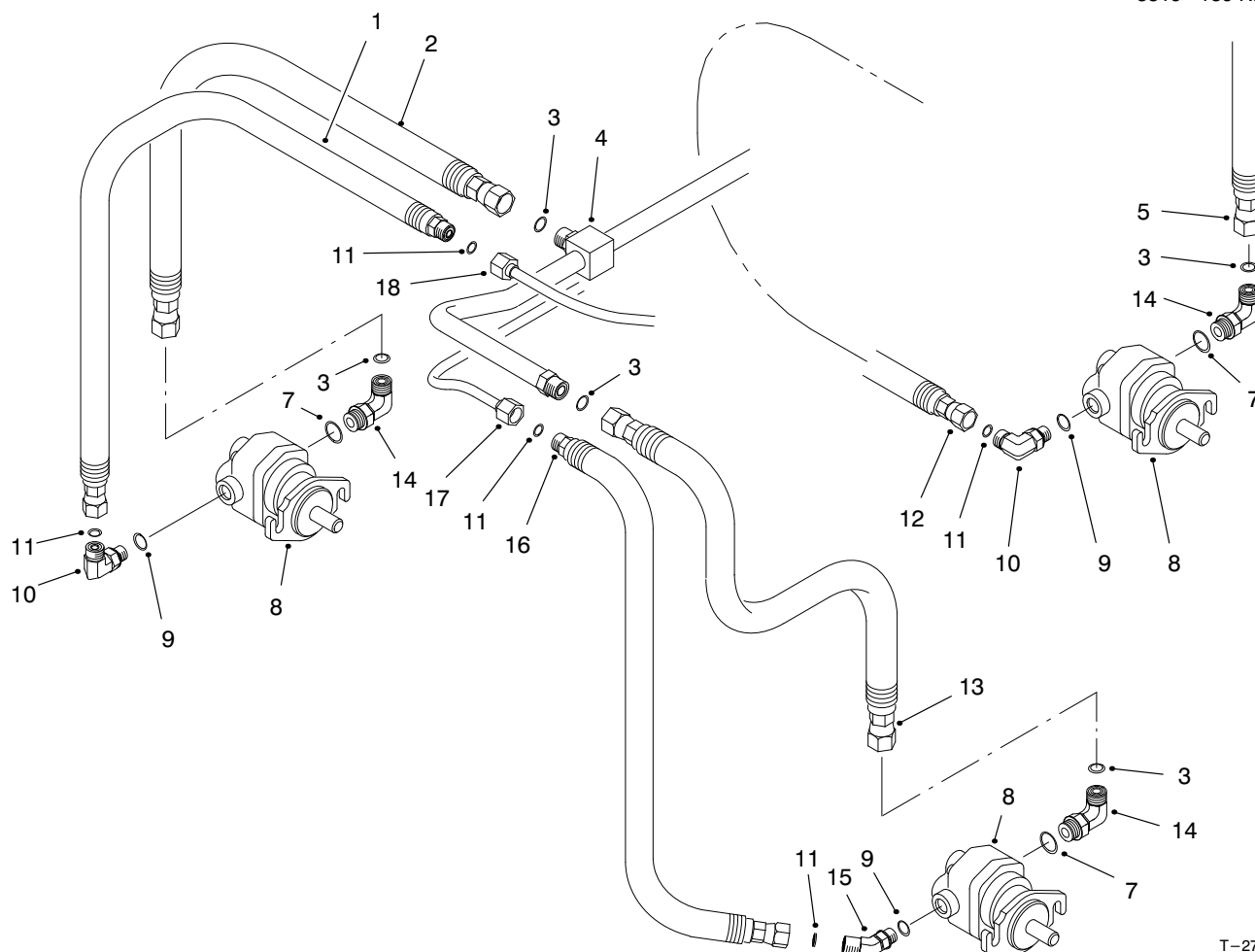


T-2700-2

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	3296-4	Nut - Lock NI	2
6	322-3	Screw - HH	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

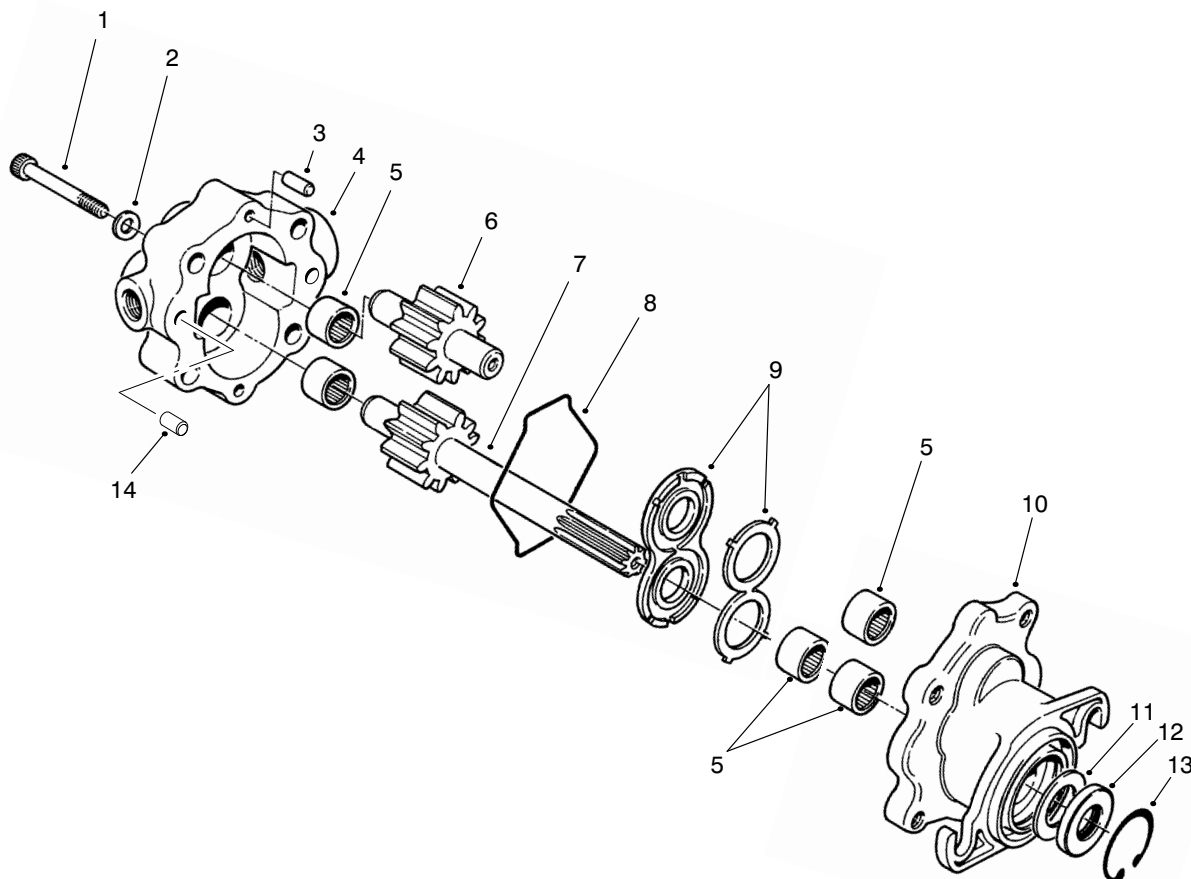
Ref. No.	Part No.	Description	No. Used
14	254-79	Cup - Bearing	2
15	75-9440	Hub - Wheel	1
16	302-55	Fitting - Grease	1
17	10-6830	Stud - Drive	4
18	232-24	Valve Stem w/Cap	1
19	95-5952	Fork - Castor	1
20	5-3934	Bolt - Castor	1
21	95-5956	Cable Anchor Assembly	1
22	3234-24	Screw - HH	3
23	3296-67	Nut - Lock	1
24	95-5955	Drum - Steering	1
26	32136-9	Nut - Hex. Slotted	1



T-2719-1

REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	95-5984	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1	11	237-22	Seal - O-Ring	5
2	95-5985	Hydraulic Hose Assembly (Incl. Ref. #21 & 24)	1	12	74-3830	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1
3	237-30	Seal - O-Ring	5	13	95-5989	Hydraulic Hose Assembly (Incl. Ref. #20 & 24)	1
4	63-4040	Hydraulic Tube Assembly (Incl. Ref. #3)	1	14	340-98	Fitting - Hydraulic 90° (Incl. Ref. #3 & 7)	3
5	63-3840	Hydraulic Hose Assembly (Incl. Ref. #22 & 24)	1	15	340-87	Fitting - Hydraulic 45° (Incl. Ref. #9 & 11)	1
7	237-79	Seal - O-Ring	3	16	95-5988	Hydraulic Hose Assembly (Incl. Ref. #19 & 23)	1
8	94-3506	Reel Motor Assembly	3	17	63-4020	Tube - Hydraulic	1
9	237-42	Seal - O-Ring	3	18	63-4030	Tube - Hydraulic	1
10	340-77	Fitting - Hydraulic 90° (Incl. Ref. #9 & 11)	2				



T-1872

REEL MOTOR NO. 94-3506

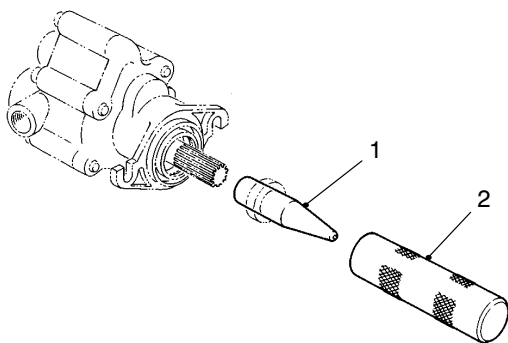
Ref. No.	Part No.	Description	No. Used
1	354-50	Screw - Hex Socket Hd.	4
2	354-51	Washer	4
3	353-599	Pin - Dowel	2
4	94-3507	Cover Assembly (Incl. Ref. #5)	1
5		Bearing - Needle	5
6	94-3509	Idler Gear Assembly	1
7	94-3508	Drive Shaft Assembly	1
8	354-46	Ring - Seal	1

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

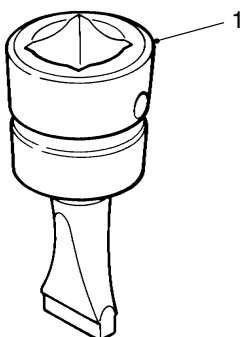
REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

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

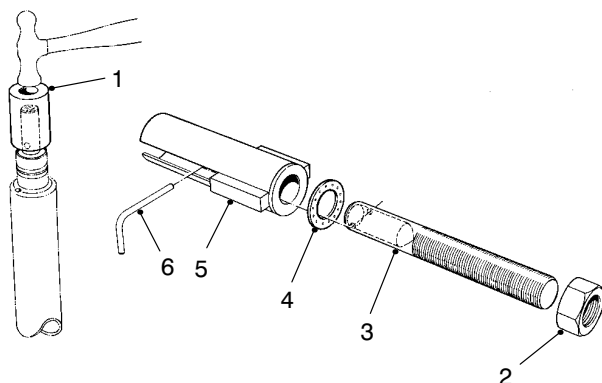
BED KNIFE SCREW TOOL NO. TOR510880



T-0729

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

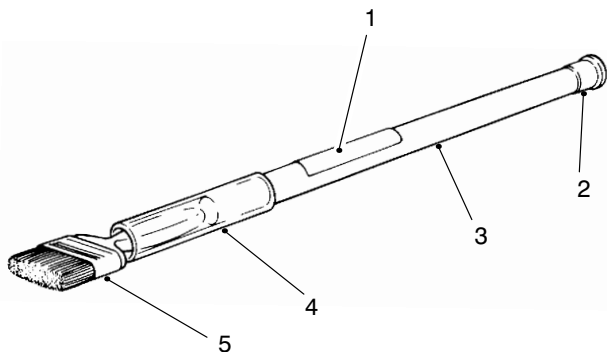
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



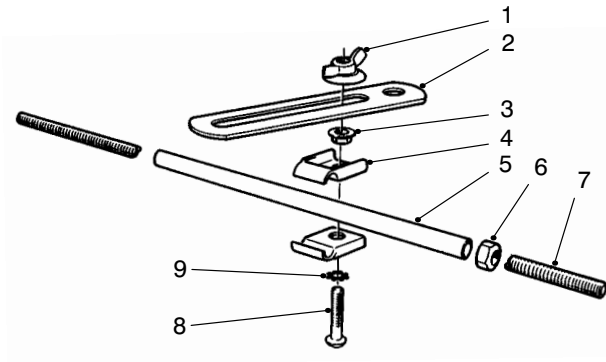
T-0731

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)

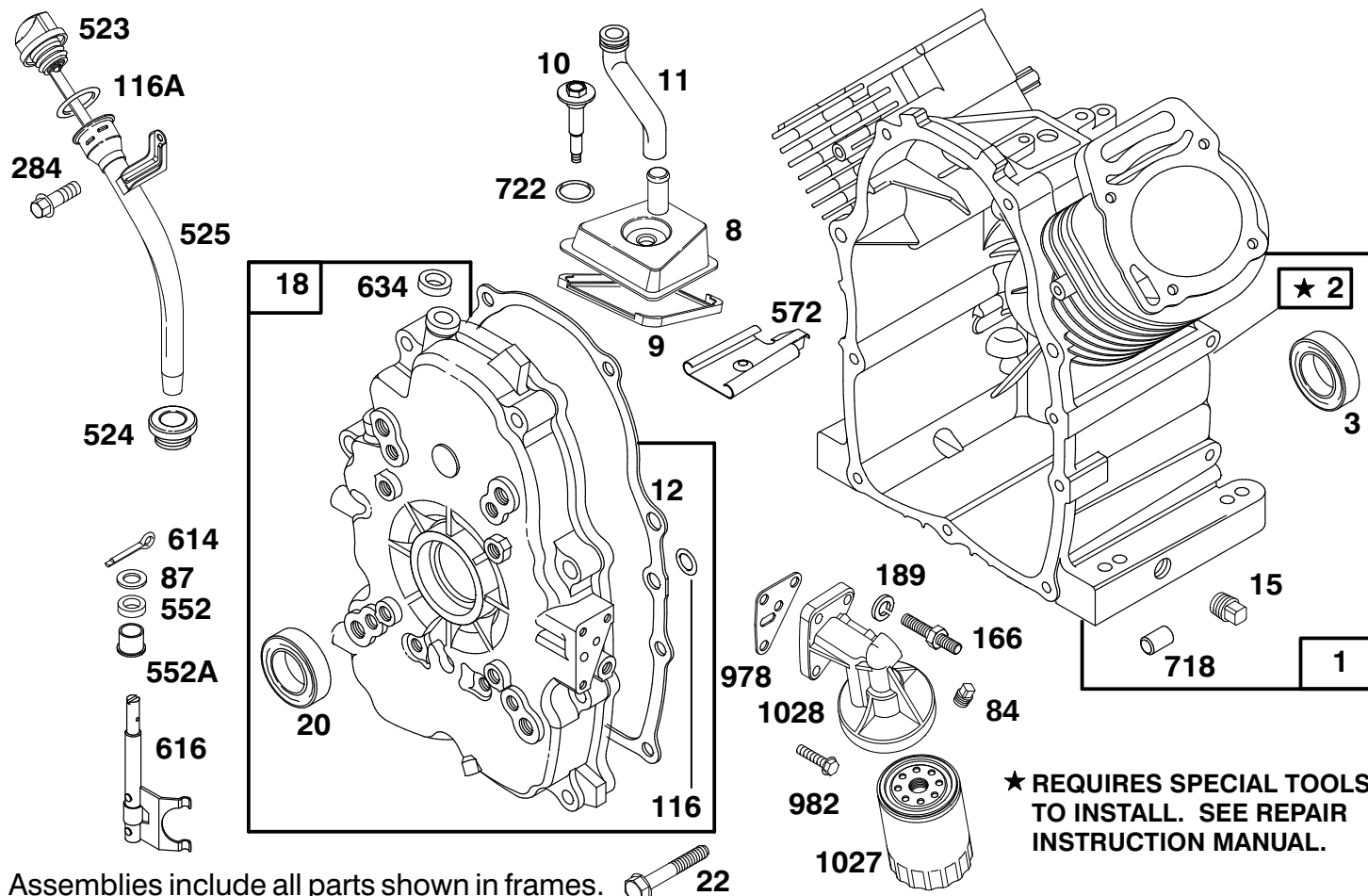
ALIGNMENT TOOL NO. TOR200120



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**

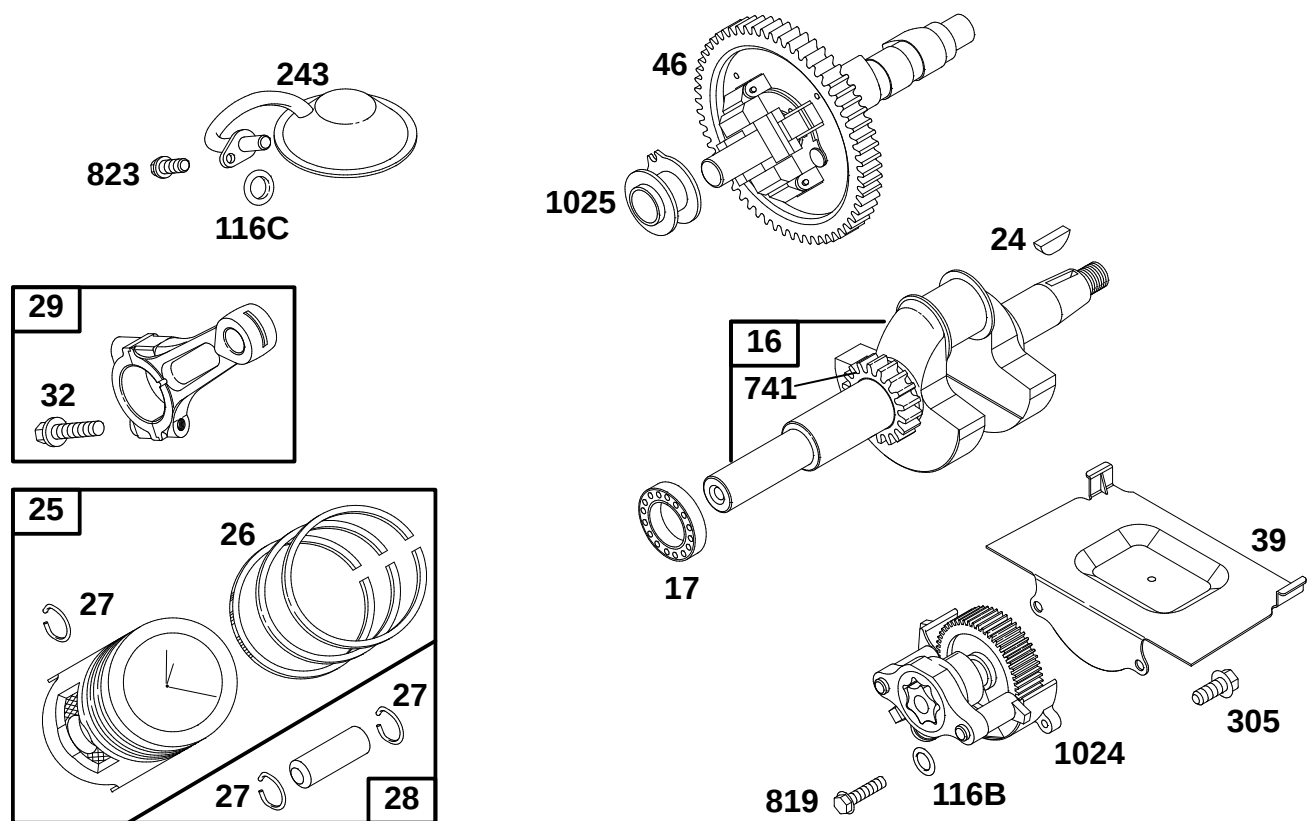


Assemblies include all parts shown in frames. 22

ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	807521	Cylinder Assembly	1	189	805449	Lockwasher	1
2	807687	Bearing – Cylinder	1	523	807977	Dipstick	1
*3	805101	Seal – Oil	1	*524	281370	Seal – Fill Tube	1
8	807795	Breather Assembly	1	525	807584	Tube – Oil Fill	1
*9	805379	Gasket – Breather	1	552	805412	Bushing – Governor Shaft	1
10	805751	Screw – Hex.Washer Head	1	552A	805413	Bushing – Governor Shaft	1
11	805362	Tube – Breather	1	572	805197	Baffle – Breather	1
*12	805112	Gasket – Crankcase Cover	1	614	806096	Pin – Cotter	1
15	805048	Plug – Oil Drain	1	616	807596	Fork – Governor	1
18	807628	Cover Assy. – Crankcase	1	634	805416	Washer – Governor Shaft	1
*20	805049	Seal – Oil	1	718	805103	Dowel – Crankcase	1
22	805696	Screw – Crankcase Cover	1	*722	807688	Seal – Breather Screw	1
84	91488	Plug – Pipe	1	*978	805250	Gasket – Oil Filter Adapter	1
*87	805054	Seal – Governor Shaft	1	982	805030	Screw	1
*116	805198	O–Ring (Crankcase Cover)	1	1027	492932	Filter – Oil	1
*116A	805386	O Ring (Dipstick)	1	1028	808325	Adapter – Oil Filter	1
166	805073	Stud – Oil Filter Adapter	1	1058	272105	Owner's Manual	1
284	805247	Screw – Hex. Head	1				

*Included in Gasket Set – Part No. 807989.

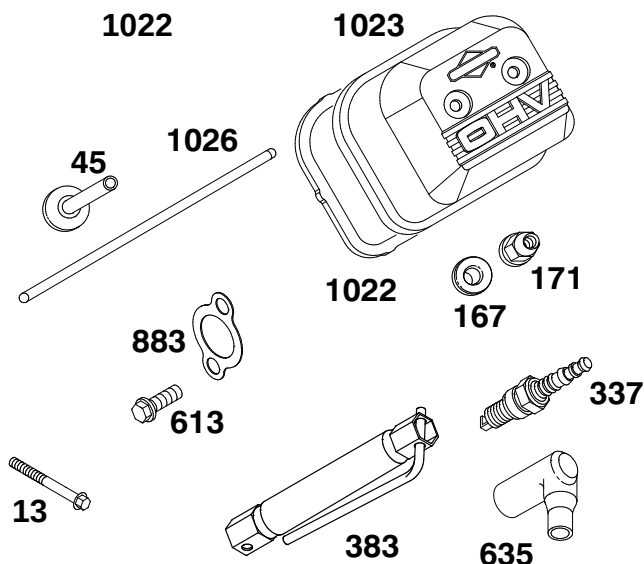
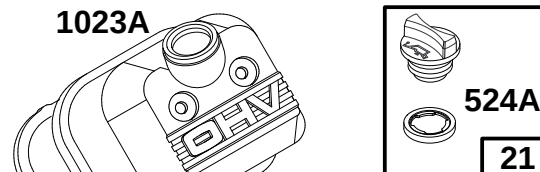
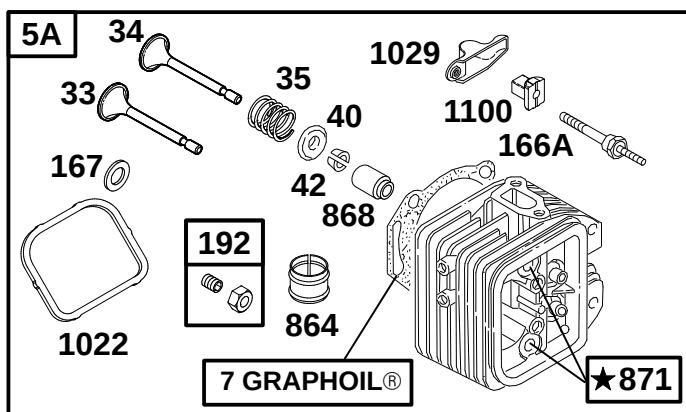
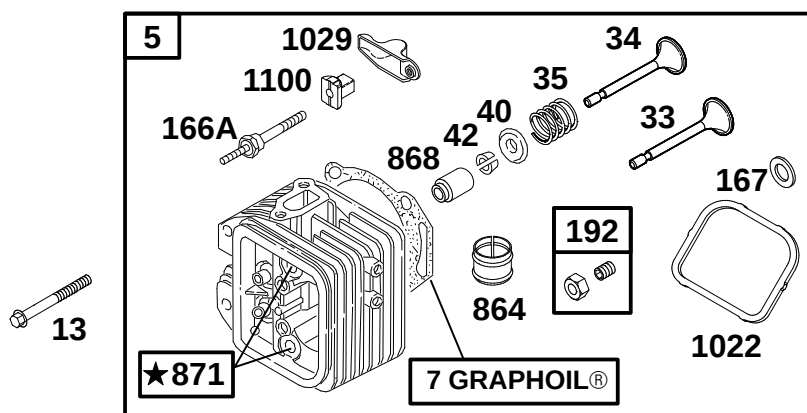


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft Note: To Replace Crankshaft Timing Gear Key Order Part No. 94196. 807625 Washers - Thrust	1	27	805099	Lock - Piston Pin	1
17	805754	Bearing - Ball	1	28	807621	Piston Pin Assembly	1
24	805016	Key - Flywheel	1	29	807900	Connecting Rod Assembly	1
25	807619	Piston Assembly (Standard)	1	32	805395	Screw - Connecting Rod	1
	807807	Piston Assembly (.010 O.S.)	1	39	805654	Deflector - Oil	1
	807809	Piston Assembly (.020 O.S.)	1	46	807542	Gear - Cam	1
	807811	Piston Assembly (.030 O.S.)	1	*116B	805058	O-Ring (Oil Pump)	1
26	807620	Ring Set - Piston (Standard)	1	*116C	805316	O-Ring (Pick - Up Tube)	1
	807808	Ring Set - Piston (.010 O.S.)	1	243	807598	Screen - Oil Pump Pick-Up	1
	807810	Ring Set - Piston (.020 O.S.)	1	305	805406	Screw	1
	807812	Ring Set - Piston (.030 O.S.)	1	741	805984	Gear - Timing	1
				819	805057	Screw	1
				823	805317	Screw - Mounting	1
				1024	807644	Oil Pump Assembly	1
				1025	805313	Slider - Governor	1

*Included in Gasket Set - Part No. 807989.



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

Assemblies include all parts shown in frames.

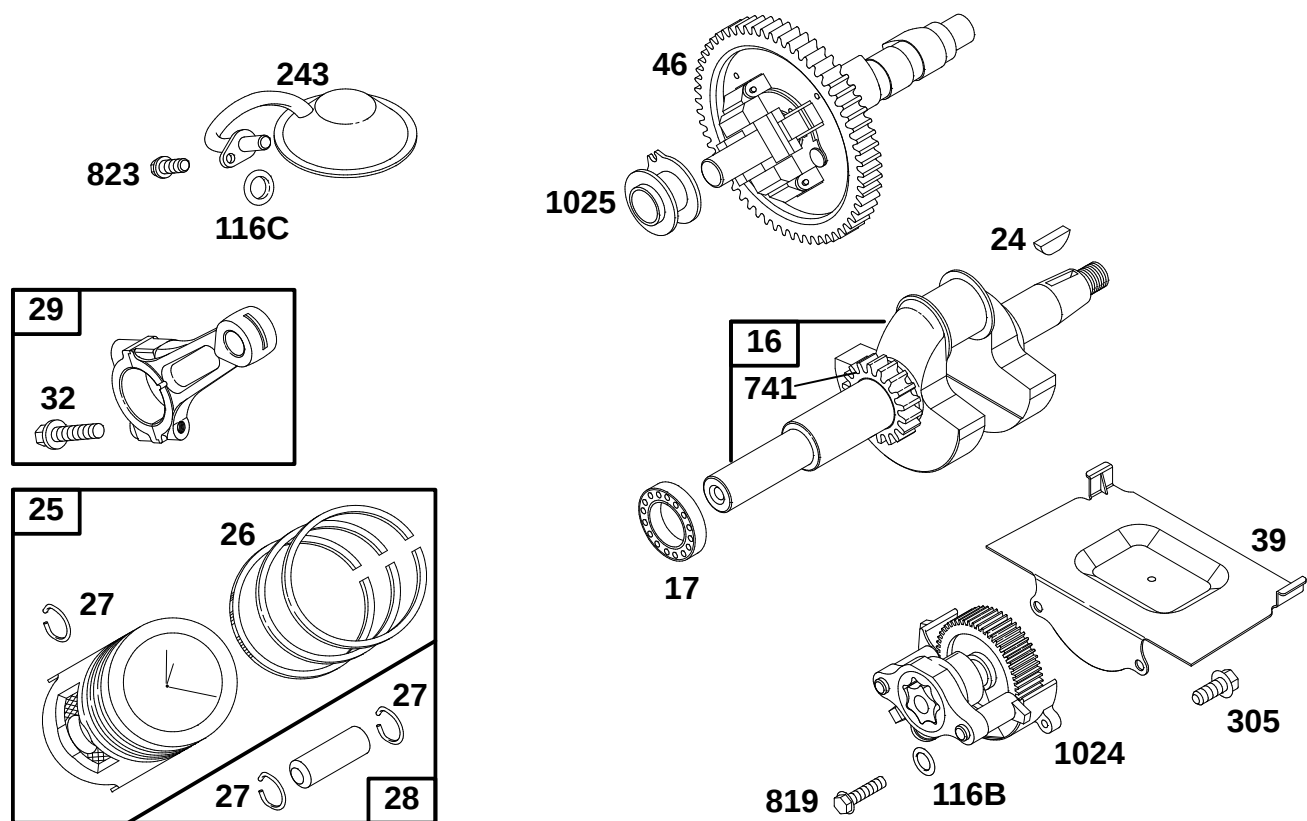
ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

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

Ref. No.	Part No.	Description	No. Used
383	19374	Wrench – Spark Plug	1
*‡524A	271983	Seal – Filler Plug	1
613	805158	Screw – Hex.	1
635	805529	Elbow – Spark Plug	1
864	805083	Liner – Exhaust Port	1
868	805094	Seal – Valve Guide	1
871	805084	Guide – Valve	1
*‡883	805024	Gasket – Exhaust Manifold	1
*‡1022	806039	Gasket – Valve Cover	1
1023	805100	Cover – Valve	1
1023A	808032	Cover – Valve	1
1026	805352	Rod – Push (Intake Valve)	1
		Note: 805617 Rod – Push (Exhaust Valve)	
1029	806036	Arm – Rocker	1

*Included in Gasket Set – Part No. 807989.

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

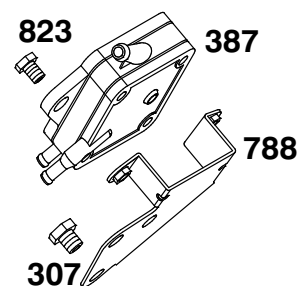
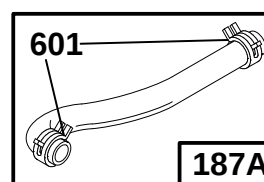
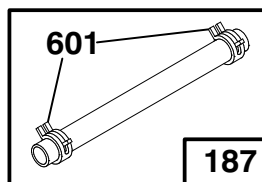
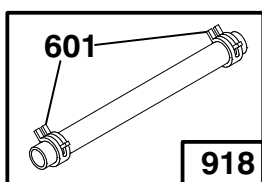
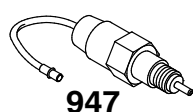
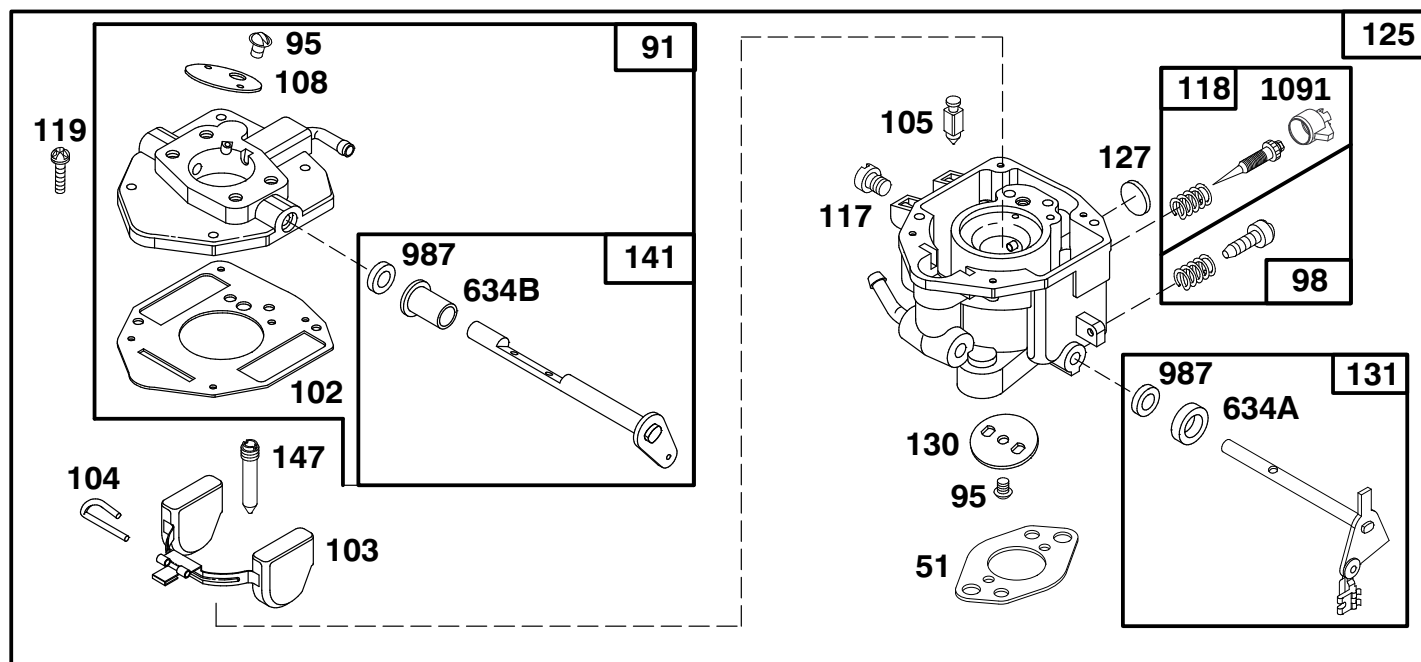


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft Note: To Replace Crankshaft Timing Gear Key Order Part No. 94196. 807625 Washers - Thrust	1	27	805099	Lock - Piston Pin	1
17	805754	Bearing - Ball	1	28	807621	Piston Pin Assembly	1
24	805016	Key - Flywheel	1	29	807900	Connecting Rod Assembly	1
25	807619	Piston Assembly (Standard)	1	32	805395	Screw - Connecting Rod	1
	807807	Piston Assembly (.010 O.S.)	1	39	805654	Deflector - Oil	1
	807809	Piston Assembly (.020 O.S.)	1	46	807542	Gear - Cam	1
	807811	Piston Assembly (.030 O.S.)	1	*116B	805058	O-Ring (Oil Pump)	1
26	807620	Ring Set - Piston (Standard)	1	*116C	805316	O-Ring (Pick - Up Tube)	1
	807808	Ring Set - Piston (.010 O.S.)	1	243	807598	Screen - Oil Pump Pick-Up	1
	807810	Ring Set - Piston (.020 O.S.)	1	305	805025	Screw	1
	807812	Ring Set - Piston (.030 O.S.)	1	741	805984	Gear - Timing	1
				819	805057	Screw	1
				823	805317	Screw - Mounting	1
				1024	807644	Oil Pump Assembly	1
				1025	805313	Slider - Governor	1

*Included in Gasket Set - Part No. 807989.



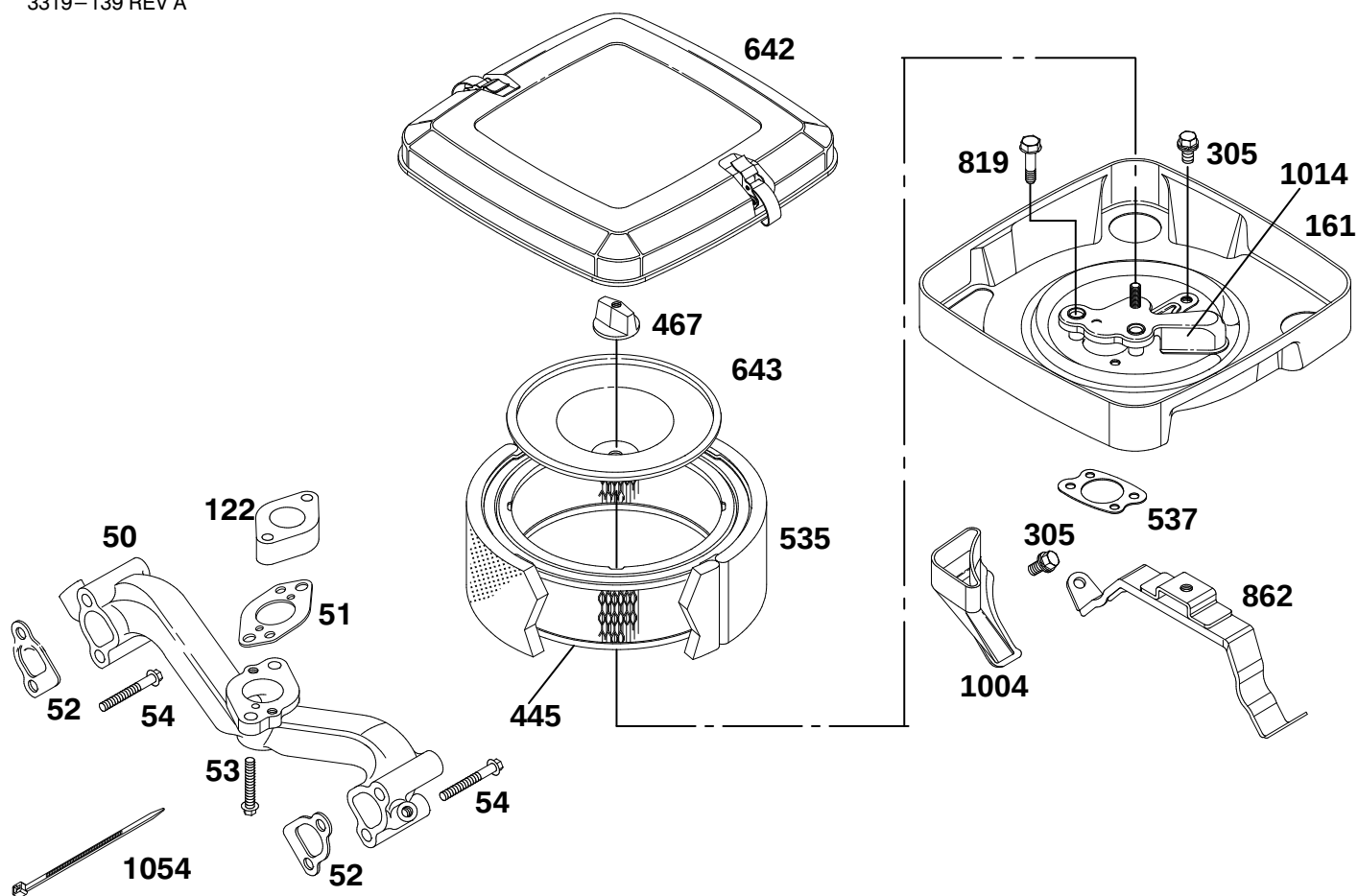
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
*51	805700	Gasket – Carburetor Mtg.	1
91	807919	Body – Upper Carburetor	1
95	805538	Screw – Valve Mtg.	1
98	808177	Screw – Throttle Adj.	1
†102	805541	Gasket – Carburetor Body	1
103	805546	Float Assembly	1
†104	805545	Pin – Float Hinge	1
†105	805547	Valve – Fuel Inlet	1
108	805539	Valve – Choke	1
117	805852	Jet – Main	1
	805537	Jet – Main (High Altitude)	1
118	808293	Valve – Idle Adjust	1
119	805540	Screw – Upper Body Mtg.	1
125	808251	Carburetor Assembly	1
†127	805559	Plug – Welch	1
130	805554	Valve – Throttle	1
131	807720	Shaft – Throttle	1

Ref. No.	Part No.	Description	No. Used
141	807722	Shaft – Choke	1
†147	805553	Jet – Slow Speed	1
187	296004	Line – Fuel (Cut to Required Length)	1
187A	398367	Line – Fuel	1
307	805025	Screw – Hex. Hd.	1
387	491922	Pump – Fuel	1
601	93053	Clamp – Hose	1
†634A	805557	Collar – Throttle	1
†634B	805543	Collar – Choke	1
788	807685	Bracket – Fuel Pump	1
823	805317	Screw – Mounting	1
918	393815	Line – Vacuum (Cut to Required Length)	1
947	807664	Solenoid	1
†987	805544	Seal – Shaft	1
1091	805862	Cap – Limiter	1

†Included in Carburetor Kit – Part No. 807726.

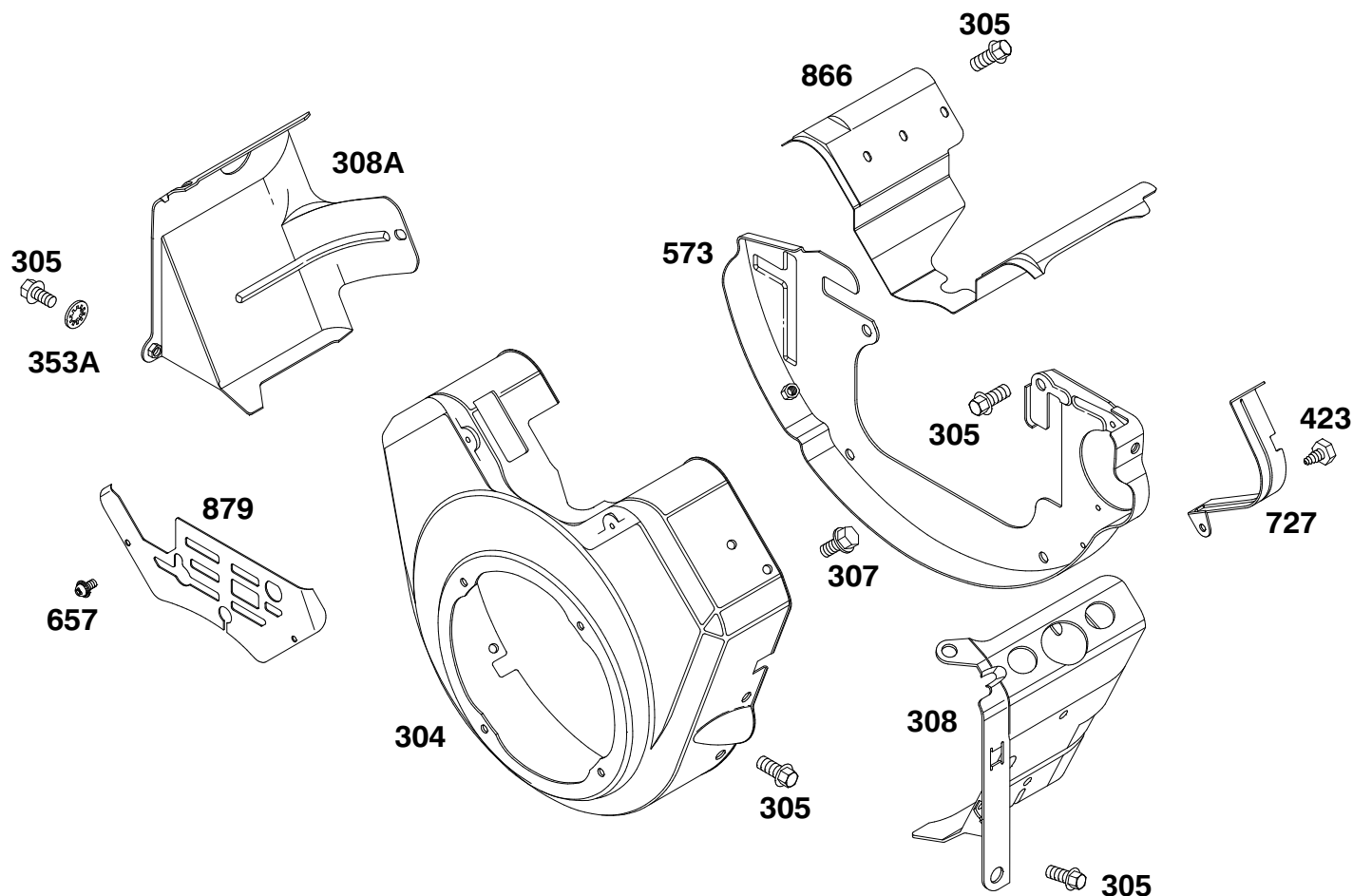


ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
50	805772	Manifold – Intake	1
*51	805700	Gasket – Carburetor Mtg.	1
*‡52	805023	Gasket – Intake Manifold	1
53	805466	Screw	1
54	805006	Screw	1
122	805328	Spacer – Carburetor	1
161	807857	Base – Air Cleaner	1
305	805025	Screw – Sem	1
445	394018	Filter– Air	1

Ref. No.	Part No.	Description	No. Used
467	491875	Knob – Air Cleaner	1
535	272490	Filter– Air	1
*537	805655	Gasket – Air Cleaner	1
642	807862	Cover – Air Cleaner	1
643	805631	Plate – Air Cleaner	1
819	805057	Screw – Hex. Hd.	1
862	807796	Bracket – Air Cleaner	1
1004	805632	Strap – Cleaner Mounting	1
1014	807797	Shield – Carburetor	1

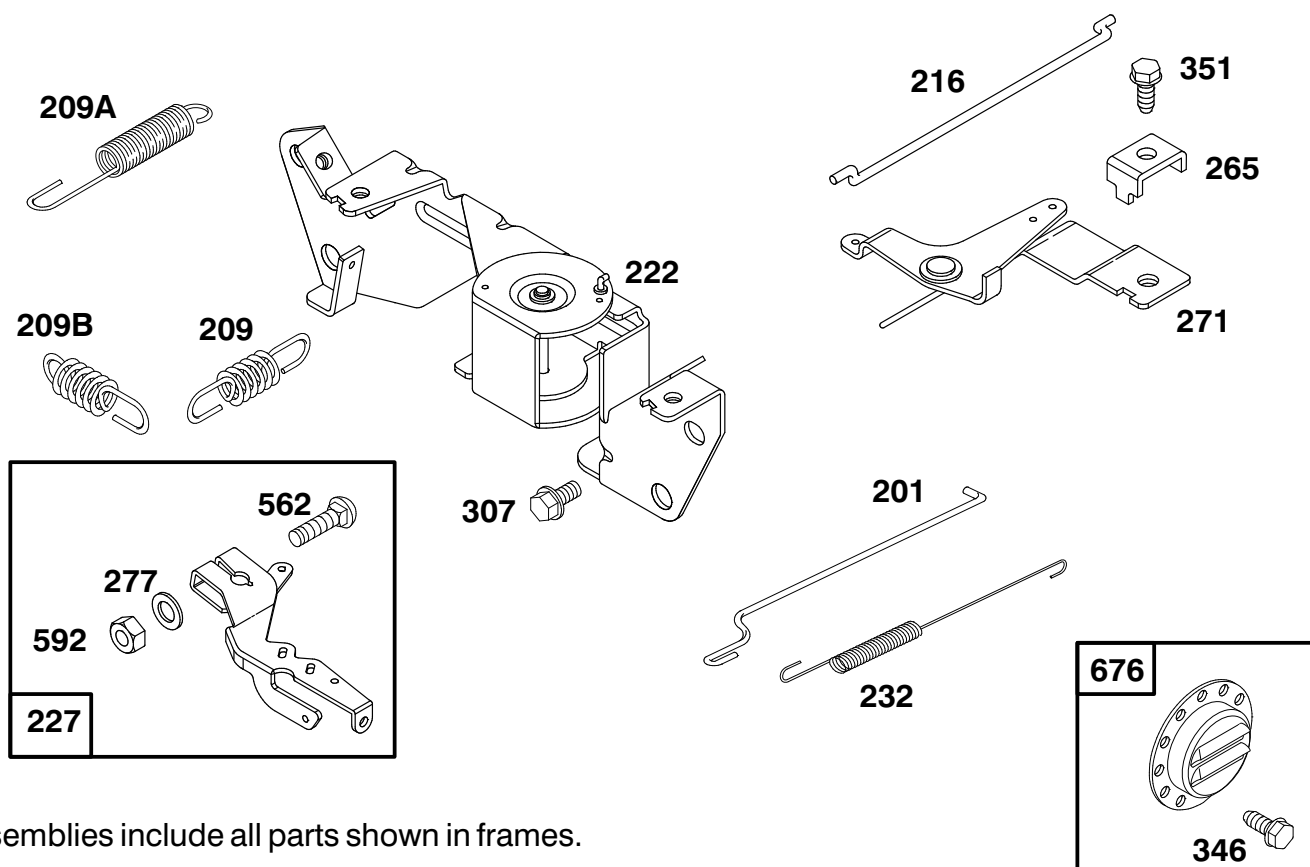
*Included in Gasket Set – Part No. 807989.



ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

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

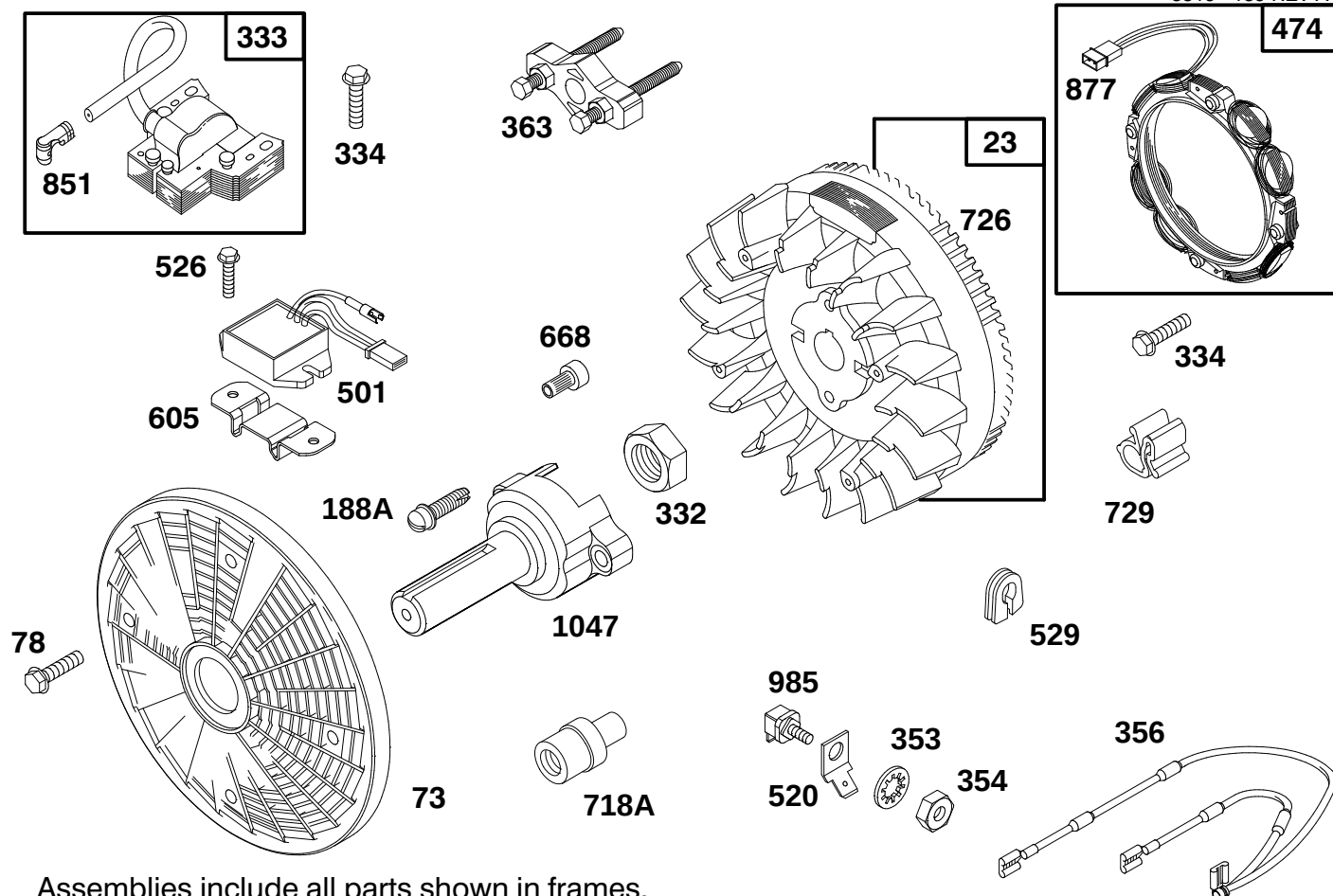
Ref. No.	Part No.	Description	No. Used
373	805383	Nut – Hex.	1
423	805260	Screw – Hex. Head	1
573	807663	Back Plate Assembly	1
657	805009	Screw – Hex. Head	1
727	805505	Shield – Starter	1
866	805738	Valley Cover – Air Guide	1
879	805841	Cover – Carburetor	1



ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
201	805480	Link - Governor	1
209	805464	Spring - Governor	1
209A	805450	Spring - Governed Idle	1
209B	806105	Spring - Governor	1
216	805439	Link - Choke	1
222	808195	Bracket - Governor Control	1
227	807528	Lever Assembly - Governor	1
232	805465	Spring - Governor Link	1
265	221535	Clamp - Casing	1

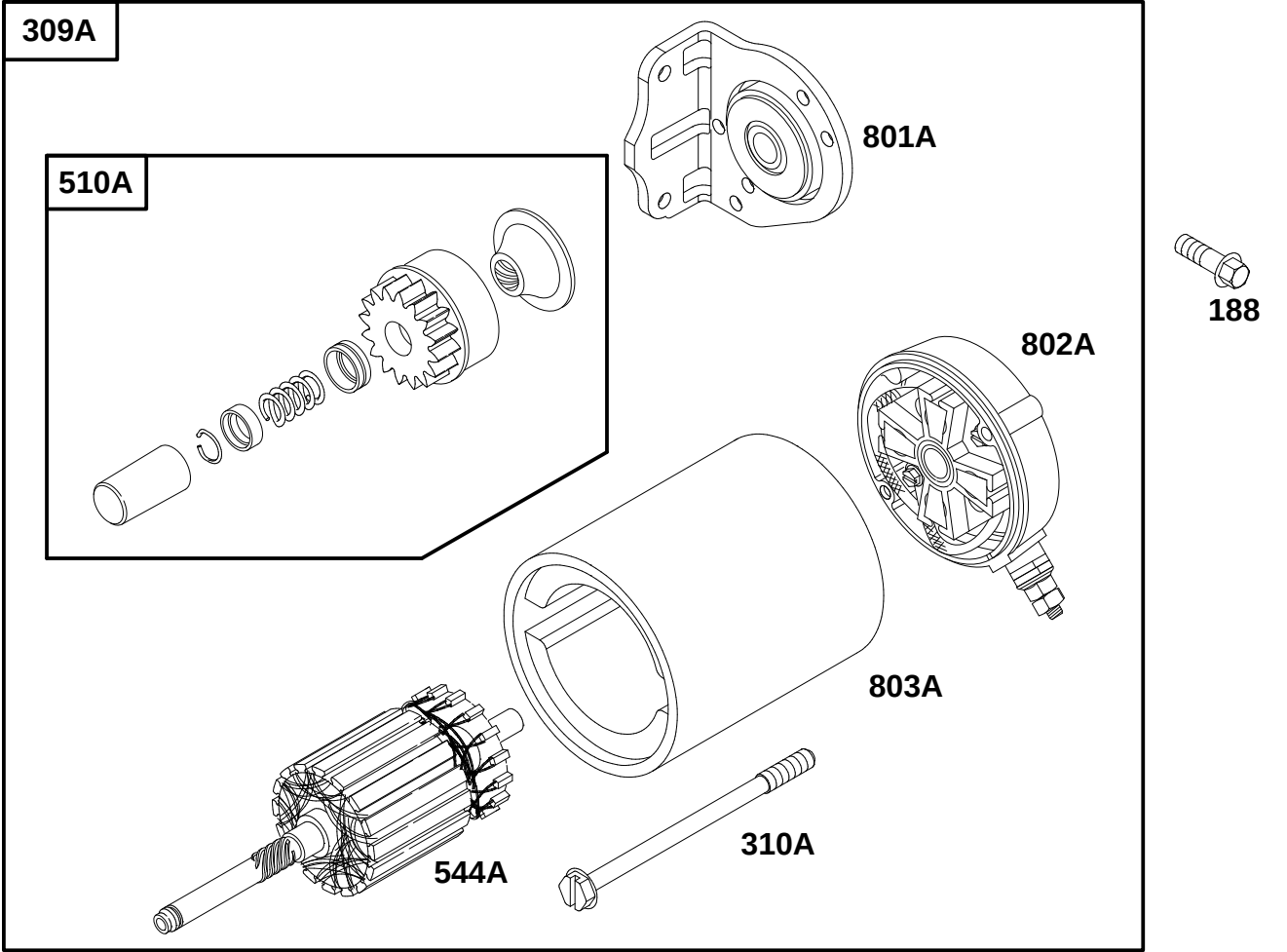
Ref. No.	Part No.	Description	No. Used
271	808145	Bracket - Choke Control	1
277	805018	Washer	1
307	805025	Screw - Hex. Head	1
346	94896	Screw - Hex. Head	1
351	805169	Screw - Hex. Head	1
562	805381	Bolt - Carriage	1
592	805383	Nut - Hex.	1
676	397630	Deflector - Muffler	1



ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
23	808128	Flywheel – Magneto	1
73	805723	Screen – Rotating	1
78	805447	Screw – Hex. Hd.	1
188A	93847	Screw – Hex. Hd.	1
332	806028	Nut – Hex.	1
333	492341	Armature – Magneto	1
334	805407	Screw – Hex. Hd.	1
353	92791	Washer – Lock (Internal Tooth)	1
354	90576	Nut – Hex.	1
356	493792	Wire – Assy.	1
363	19203	Puller – Flywheel	1
474	393295	Stator – Alternator	1
501	394890	Regulator – Alternator	1

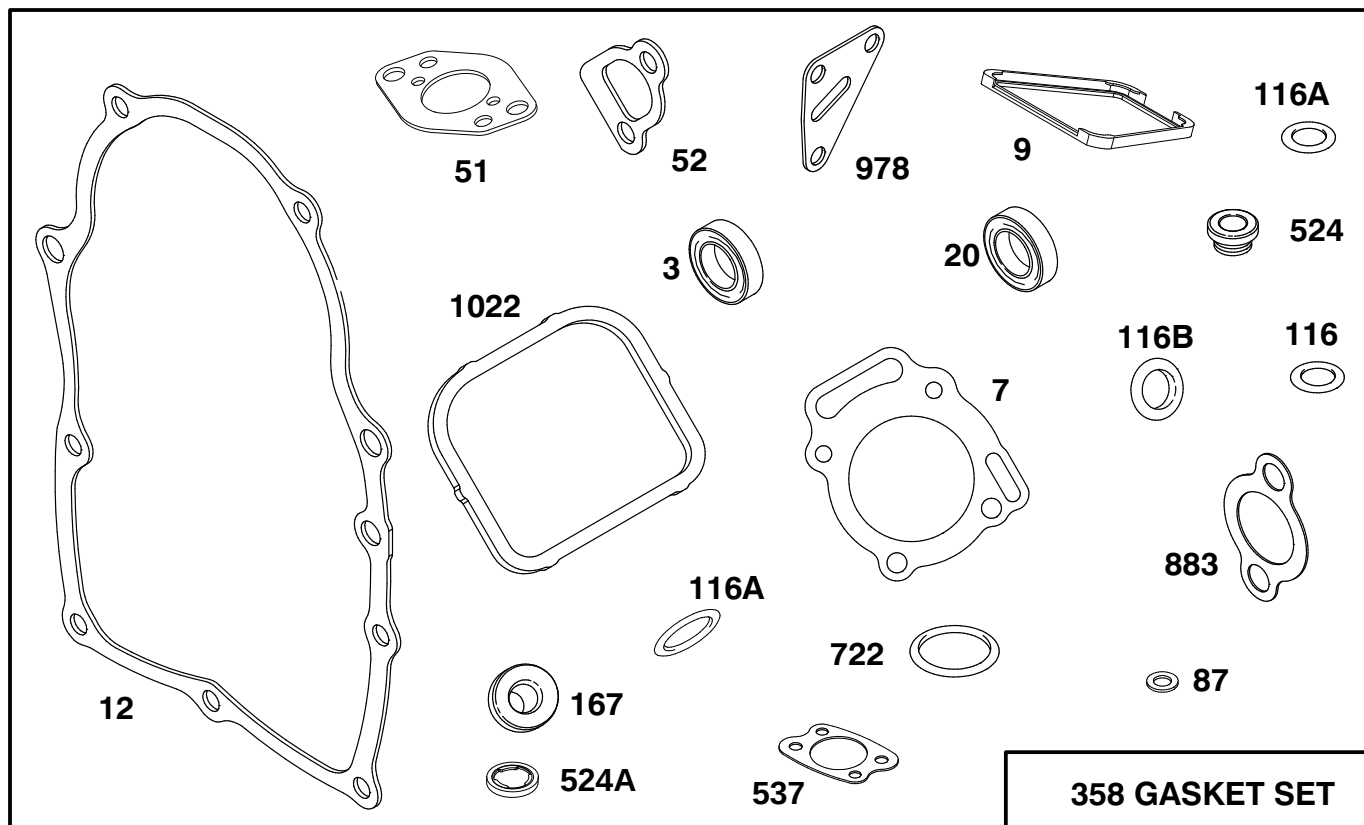
Ref. No.	Part No.	Description	No. Used
520	93722	Terminal – Spade	1
526	805448	Screw – Hex. Hd.	1
529	805641	Grommet	1
605	222934	Bracket – Regulator	1
668	805402	Spacer	1
718A	805613	Pin – Pilot	1
726	808162	Gear – Flywheel Ring Includes Mounting Hardware.	1
729	280470	Clip – Wire	1
851	493880	Terminal – Ignition Cable	1
877	393537	Wire – Alternator	1
985	398525	Insulator	1
1047	262949	Shaft – Stub	1



ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used
188	805247	Screw-Hex. Head	1
309A	808106	Motor-Starter	1
310A	496880	Bolt-Thru	1
510A	496881	Drive-Starter	1
544A	496816	Armature-Starter	1

Ref. No.	Part No.	Description	No. Used
801A	496814	Cap-Drive	1
802A	496813	Cap-End Note: Includes 496887 Brush Set.	1
803A	496815	Housing-Starter	1



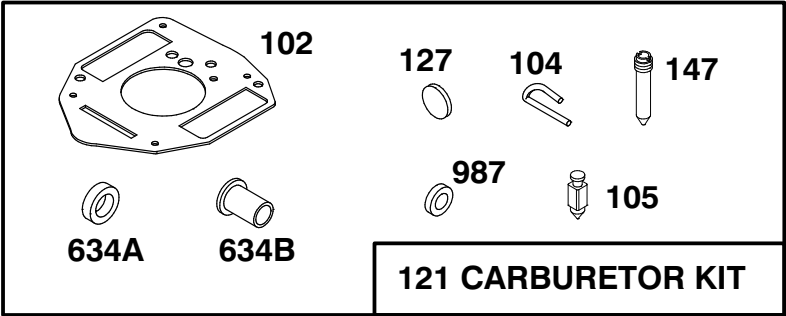
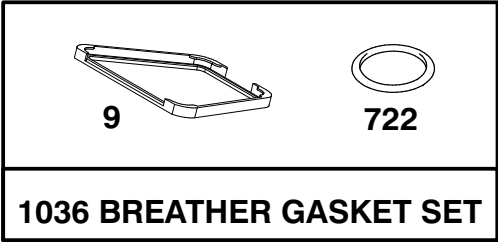
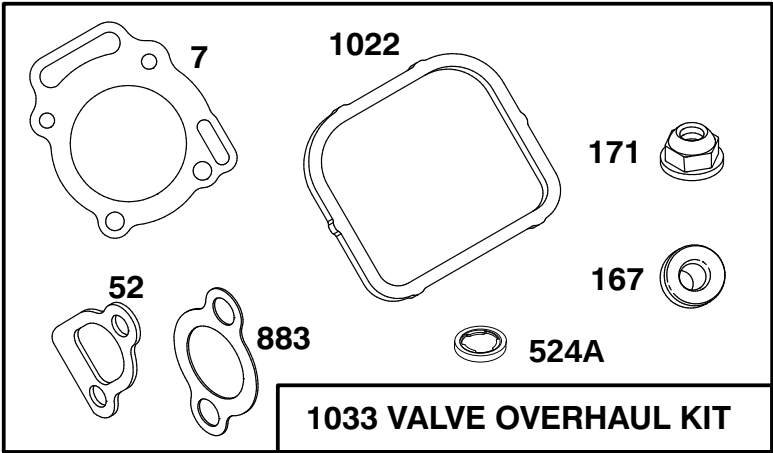
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447-1179-A1

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
*3	805101	Seal – Oil	1	*116C	805316	O–Ring (Pick – Up Tube)	1
*†7	807986	Gasket – Cylinder Head	1	*†167	805420	Washer – Valve Cover	1
*9	805379	Gasket – Breather	1	358	807989	Gasket Set	1
*12	805112	Gasket – Crankcase Cover	1	*524	281370	Seal – Fill Tube	1
*20	805049	Seal – Oil	1	*†524A	271983	Seal – Filler Plug	1
*51	805700	Gasket – Carburetor Mtg.	1	*537	805655	Gasket – Air Cleaner	1
*52	805023	Gasket – Intake Manifold	1	*722	807688	Seal – Breather Screw	1
*87	805054	Seal – Governor Shaft	1	*883	805024	Gasket – Exhaust Manifold	1
*116	805198	O–Ring (Crankcase Cover)	1	*978	805250	Gasket – Oil Filter Adapter	1
*116A	805386	O–Ring (Dipstick)	1	*†1022	806039	Gasket – Valve Cover	1
*116B	805058	O–Ring (Oil Pump)	1				

*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	1
*9	805379	Gasket – Breather	1
*†52	805023	Gasket – Intake Manifold	1
†102	805541	Gasket – Carburetor Body	1
†104	805545	Pin – Float Hinge	1
†105	805547	Valve – Fuel Inlet	1
121	807726	Carburetor Kit	1
†127	805559	Plug – Welch	1
†147	805553	Jet – Slow Speed	1
*†167	805420	Washer – Valve Cover	1

Ref. No.	Part No.	Description	No. Used
†171	805019	Nut – Nylock	1
*†524A	271983	Seal – Filler Plug	1
†634A	805557	Collar – Throttle	1
†634B	805543	Collar – Choke	1
*722	805483	Seal – Breather Screw	1
*†883	805024	Gasket – Exhaust Manifold	1
†987	805544	Seal – Shaft	1
*†1022	806039	Gasket – Valve Cover	1
1033	807990	Overhaul Kit – Valve	1
1036	807688	Gasket Set – Breather	1

*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

3319-139 REV A

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
106948	Tray - Battery	19 50 1	27-6600	Spacer - Coupling	26 15 4
3-0348	Bushing - Sleeve	3 11 6	28-1400	Battery	19 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	28 9 1
3-1506	Bushing	1 24 2	28-4210	Solenoid - Starter	19 5 1
3-1506	Bushing - Flange	3 16 4	28-8080	Boot Terminal	19 13 1
3-1506	Bushing - Flange	4 30 4	29-9080	Handle	31 3 1
3-1506	Bushing - Flange	6 38 4	29-9090	Hose - Handle	31 4 1
3-4808	Nut - Wing	32 1 1	36-4310	Brush	31 5 1
3-6657	Clip - Skid	32 4 2	36-7250	Basket - Grass	2 * 3
3-6685	Spring - Compression	18 17 1	38-0410	Nut - Hex.	14 53 1
5-0946	Key - Square	27 8 1	38-0410	Nut - Hex.	16 59 1
5-0946	Key - Square	26 12 1	42-2680	Race R. Detent	13 46 1
5-1226	Washer - Shim	3 10 2	43-2830	Nut - Hex	25 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
5-2653	Pulley Assembly	17 4 4	43-5930	Washer - Lock	25 25 2
5-3934	Bolt - Castor	28 20 1	43-8600	Spring - Compression	18 21 1
10-6060	Pin - Lift Cylinder	3 7 1	43-8610	Seat - Ball	18 20 1
10-6060	Pin - Pivot	4 19 1	43-8620	Guide - Switch	18 23 1
10-6090	Pin - Pivot	4 33 1	43-8860	Plunger - Switch	18 22 1
10-6090	Pin - Pivot	3 37 1	43-8870	Boot - Switch	18 26 1
10-6090	Pin - Pivot	6 41 1	43-9071	Seat Switch Assembly	18 * 1
10-6110	Pin - Hinge	3 3 1	44-0870	Shaft - Cam	10 5 1
10-6110	Pin - Pivot	4 24 1	44-2230	Coupling - Rubber	26 16 1
10-6821	Brake Drum Assembly	8 * 2	44-5560	Head - Oil Filter	19 27 1
10-6830	Stud - Drive	28 17 4	46-8560	Screw - Self Taping	19 20 3
10-6850	Drum - Brake	8 6 2	47-5320	Lever - Control	10 40 1
10-6870	Hub - Wheel	8 5 2	48-7610	Screw - Cap Hex. Hd.	23 9 1
10-7070	Key - Square	26 20 1	48-7620	Screw - Cap Hex. Hd.	25 36 1
10-7240	Sleeve	17 20 1	49-2040	Screw - Thread Forming	25 27 4
10-7820	Pivot Hinge Assembly	3 12 1	49-5430	Rod - Control	10 1 1
10-7820	Pivot Hinge Assembly	4 25 1	49-5430	Rod - Control	1 4 1
10-7820	Pivot Hinge Assembly	6 33 1	49-5880	Shaft - Seat Support	18 27 1
10-7850	Latch - Parking Brake	1 23 1	49-5900	Wheel - Steering	17 1 1
10-8100	Strap - Brake Shaft	1 31 2	49-6110	Guard - Transfer Rod	1 6 1
10-8110	Washer - Thrust	3 9 6	49-6120	Pad - Footrest	1 13 1
10-8110	Washer - Thrust	4 15 6	49-6200	Lever - Cutting Control	2 42 1
10-8110	Washer - Thrust	6 23 6	49-6220	Bracket - Control Arm	10 9 1
10-8140	Spring - Torsion	1 7 1	49-6250	Bracket - Traction Pivot	10 35 1
11-0160	Roller Shaft Screw Assy.	3 14 2	49-6260	Assy. - Pivot, Traction	10 21 1
11-0160	Roller Shaft Screw Assy.	4 28 2	49-6290	Shaft - Traction Pivot	10 37 1
11-0160	Roller Shaft Screw Assy.	6 36 2	49-6440	Pedal - Forward	10 42 1
12-3270	Screw - Hex. Washer Hd.	25 17 4	51-0350	Pin - Seat Spring	18 16 1
12-3270	Screw - Hex. Washer Hd.	10 38 1	51-0780	Slider - Seat	18 31 1
12-3270	Screw - Thread Forming	12 50 1	51-0790	Adjuster - Seat	18 6 1
12-9140	Decal	31 1 1	52-1990	Piston	5 3 1
17-9420	Screw - Traction Stop	10 34 1	52-2720	Roller Assembly	3 20 1
18-6320	Washer - Steering	28 7 4	52-2720	Roller Assembly	4 35 1
20-0070	Tube	32 5 1	52-2720	Roller Assembly	6 43 1
20-0080	Rod	32 7 1	52-5860	Collar - Spool	16 51 1
20-0110	Bracket - Alignment	32 2 1	52-5880	Ball - Steel	13 47 12
21-8470	Shaft - Roller	3 21 1	52-5900	Screw - Fillister Hd.	15 37 4
21-8470	Shaft - Roller	4 36 1	56-2230	Hose - Fuel	23 17 1
21-8470	Shaft - Roller	6 44 1	56-7720	Bolt - Battery	19 17 2
22-6090	Washer - Thrust	31 4 1	56-7970	Clamp Half - Tube	2 45 2
23-8840	Puller - Bolt	31 3 1	57-6140	Clamp Half - Tube	8 20 2
23-8850	Tube - Support	31 5 1	57-6220	Link	10 17 5
23-8860	Pin - Bearing Rplcmnt.	31 6 1	57-7650	Spring - Torsion	4 11 1
23-8880	Driver - Bearing	31 1 2	57-7650	Spring - Torsion	6 18 1
26-3790	Nut - Lock	8 4 2	57-7650	Spring - Torsion	3 32 1
27-1960	Hub - Engine	26 21 1	61-3310	Plate - Logo	19 21 1
27-1970	Hub - Pump	26 22 1	62-2420	Bar - Lift	6 8 1
27-2270	Rod - Brake Adjusting	1 29 2	62-2440	Lift Arm Assembly	4 8 1
27-2320	Bearing - Flange	10 7 2	62-2460	Lift Arm Assembly L.H.	3 29 1
27-2320	Bearing - Flange	1 33 2	62-2570	Filler Cap Assembly	22 * 1
27-2380	Spacer	19 32 2	62-2610	Strainer - Filler Cap	22 17 1
27-2400	Strap - Reservoir Assembly	22 5 2	63-3840	Hydraulic Hose Assembly	29 5 1
27-2550	Pin - Pivot	6 27 1	63-3850	Hose - Hydraulic	11 31 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
63-3850	Hose - Hydraulic	3 39 1	83-0200	Cover - L.H.	1 17 1
63-4020	Tube - Hydraulic	29 17 1	83-0540	Pedal - Traction	10 24 1
63-4020	Tube - Hydraulic	11 40 1	83-0580	Rod - Traction Control	10 32 1
63-4030	Tube - Hydraulic	29 18 1	83-0630	Arm - Traction Pivot	10 29 1
63-4030	Tube - Hydraulic	11 41 1	83-0640	Plate - Footrest	1 12 1
63-4040	Hydraulic Tube Assembly	29 4 1	83-0820	Gauge - Ammeter	20 4 1
63-4040	Tube - Hydraulic	11 35 1	83-0830	Panel - Control Upper	19 33 1
63-4050	Fitting - Tee	11 42 2	83-0840	Fender - L.H.	19 19 1
63-4080	Fitting - Manifold Tee	11 37 1	83-1030	Mount - Engine	25 4 3
63-8360	Key - Ignition	20 17 1	83-1040	Washer - Mount	25 2 3
63-8410	Washer - Flat	23 4 4	83-1050	Spacer - Mount	25 3 2
63-8750	Pin - Pivot	6 9 1	83-1060	Adapter - Pump	25 10 1
63-8750	Pin - Pivot	4 10 1	83-1080	Pipe - Exhaust	25 7 1
63-8750	Pin - Pivot	3 33 1	83-1110	Harness - Wire (Engine)	21 2 1
63-9920	Decal - EEC	19 43 1	83-1160	Wire - Solenoid-Starter	21 3 1
65-4860	Head	5 9 1	83-1170	Hose - Hydraulic	11 22 1
65-8320	Bar - Gauge	2 * 1	83-1170	Hose - Hydraulic	26 28 1
66-2950	Gauge - Hourmeter	20 5 1	83-1180	Hose - Hydraulic	11 6 1
67-1300	Decal - TORO	19 39 1	83-1180	Hose - Hydraulic	26 8 1
68-5100	Rod - Seat Prop	18 10 1	83-1190	Hose - Hydraulic	26 1 2
68-5310	Clip - Seat Rod	18 12 1	83-1190	Hose - Hydraulic	11 10 2
68-5380	Lift Arm Assembly	6 21 1	83-1200	Tube Assy.	11 5 1
68-5560	Pin - Cylinder Pivot	6 26 1	83-1220	Plate - Clamp	8 21 1
68-5880	Hose - Hydraulic	19 30 1	83-1270	Seat Support Assembly	18 7 1
69-9760	Plate - Cover	2 50 1	83-1390	Fitting - Fuel Shut-Off	23 15 1
70-2770	Head	7 8 1	83-1400	Shield - Muffler	25 16 1
70-2780	Piston	7 4 1	83-1630	Bracket - Muffler Support	25 24 1
70-7130	Tube Assy.	11 3 1	83-1670	Fitting - Special	11 27 1
70-7150	Hose - Hydraulic	11 48 1	83-1680	Hose - Hydraulic	6 13 1
70-8130	Barrel	7 1 1	83-1680	Hose - Hydraulic	11 30 1
70-8610	Hose - Hydraulic	12 51 1	83-1690	Hose - Hydraulic	11 21 1
70-9840	Shoe - Brake	8 8 4	83-1690	Hose - Hydraulic	3 40 1
70-9850	Clip - Retaining	8 23 2	83-1700	Bushing - Flange	8 33 3
70-9860	Cam - Brake	8 27 2	83-1840	Cover - R.H.	18 32 1
70-9870	Plate - Backing	8 10 2	83-1890	Switch - Ball	14 54 1
70-9880	Spring - Return	8 7 4	83-1890	Switch - Ball	16 60 1
71-0990	Orifice	11 43 1	83-2030	Plate - Filler	20 3 1
71-1500	Brake Assembly	8 * 2	83-2040	Hose - Fuel	23 14 1
72-3850	Seal - Filter	19 28 1	83-2041	Hose - Fuel	23 11 1
72-4320	Switch - Ball	18 18 1	83-2200	Nut - Special	23 8 1
72-4790	Hold-Down - Battery	19 16 1	83-2240	Arrestor - Spark	25 * 1
74-0720	Tube - Manual	18 3 1	83-2310	Shield	25 35 1
74-3570	Filter - Hydraulic Oil	19 29 1	83-2450	Hose - Hydraulic	11 1 1
74-3730	Spacer - Hub	28 11 2	83-2450	Hose - Hydraulic (Top)	8 34 1
74-3810	Load Plate Assembly	30 9 1	83-2460	Hose - Hydraulic	11 4 1
74-3830	Hydraulic Hose Assembly	29 12 1	83-2460	Hose - Hydraulic (Bottom)	8 * 1
74-9100	Pad - Forward Pedal	10 25 1	83-2580	Cylinder - Lift	3 6 1
74-9110	Pad - Reverse Pedal	10 23 1	83-2580	Hydraulic Cylinder Assy.	4 22 1
75-9440	Hub - Wheel	28 15 1	83-2590	Bolt - Eccentric	2 47 1
76-0410	Spring	2 54 1	83-7230	Hydraulic Cylinder Assembly	6 10 1
76-0810	Housing Assembly	9 * 1	84-2000	Bracket - Brake	8 12 2
76-0840	Manifold	9 22 1	84-2190	Seals - Section Set	14 * 1
76-0850	Bearing - Thrust	9 12 1	84-2203	Control Valve Assembly	16 * 1
76-0860	Shaft - Coupling	9 11 1	84-2203	Control Valve Assembly	11 16 1
76-0870	Plate - Wear	9 18 1	85-6540	Stud - Drive	8 28 8
76-0880	Commutator Assembly	9 * 1	85-8120	Plate - Engine Mount	25 28 1
76-0940	End Cover Assembly	9 24 1	86-5360	Repair Kit	7 * 1
76-1720	Gasket - Filler Cap	22 14 1	86-5390	Seal Kit	5 * 1
76-1850	Clevis	5 13 1	86-9820	Frame - Pull Rear	6 1 1
76-1860	Shaft	5 6 1	88-9630	Lift Pivot Bracket R.H.	2 40 1
83-0010	Engine Assembly	25 15 1	88-9640	Lift Pivot Bracket L.H.	1 28 1
83-0020	Ignition Switch Assembly	20 14 1	88-9660	Shaft - Cutting Control	2 36 1
83-0030	Control - Throttle	20 12 1	88-9700	Hose - Hydraulic	6 15 1
83-0040	Control - Choke	20 13 1	88-9700	Hose - Hydraulic	11 20 1
83-0060	Lift - Pivot	1 26 1	92-0585	Pull Arm Assembly R.H.	3 19 1
83-0080	Spring - Torsion	1 25 1	92-0585	Pull Arm Assembly R.H.	4 34 1
83-0140	Pedal - Mow	2 38 1	92-0585	Pull Arm Assembly R.H.	6 42 1
83-0160	Shaft - Brake	2 48 1	92-0586	Pull Arm Assembly L.H.	3 17 1
83-0190	Cover - R.H.	8 18 1	92-0586	Pull Arm Assembly L.H.	4 31 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
92-0586	Pull Arm Assembly L.H.	6 39 1	94-3507	Cover Assembly	30 4 1
92-1180	Seat Assembly	18 5 1	94-3508	Drive Shaft Assembly	30 7 1
92-2545	Seals - Spool	14 * 1	94-3509	Idler Gear Assembly	30 6 1
92-2545	Seals - Spool	16 * 1	94-4248	Collar Spool	15 26 1
92-2546	Wiper - Seal	13 25 4	94-5434	Spool #5	15 1 1
92-2546	Wiper - Seal	16 64 5	94-5586	Bar - Lift L.H.	3 30 1
92-2547	Plate - Seal Retainer	15 18 5	94-5588	Bar - Lift, R.H.	4 9 1
92-2547	Plate - Seal Retainer	13 24 4	94-6960	Clamp - Mounting	20 9 1
92-2548	Seals - Spool	14 * 1	94-8178	Seal Kit	9 * 1
92-2548	Seals - Spool	16 * 1	95-0659	Module - Interlock	20 26 1
92-2549	Seals - Spool	16 * 1	95-1628	Hinge - Upper	1 8 1
92-3058	Spring - Centering	13 41 1	95-1629	Hinge - Lower	1 22 1
92-3148	Spring	15 23 1	95-2932	Bracket - Pulley	17 5 1
92-5524	Decal - Noise Rating	19 42 1	95-2941	Steering Arm Assembly	17 22 1
92-6533	Kit - Cushion	18 35 1	95-5951	Strip - Seal	22 3 2
92-6534	Shell	18 36 1	95-5952	Fork - Castor	28 19 1
92-7189	Tank - Fuel	23 2 1	95-5955	Drum - Steering	28 24 1
92-8795	Body Assembly	30 10 1	95-5956	Cable Anchor Assembly	28 21 1
92-8796	Pin - Dowel	30 14 2	95-5959	Pulley - Support	17 19 1
92-8863	Repair Kit	30 * 1	95-5963	Spacer - Pulley	17 15 1
92-9176	Frame - Pull L.H.	3 24 1	95-5965	Cable - Steering	17 14 1
92-9177	Frame - Pull R.H.	4 1 1	95-5966	Hose - Pump	26 11 2
92-9199	Motor - Hydraulic	8 22 2	95-5966	Hose - Pump Inlet	22 12 2
92-9761	Link - Drive	9 13 7	95-5976	Hydraulic Pump Assembly	26 9 1
92-9762	Screw - Cap Hex. Hd.	9 14 1	95-5981	Frame Assembly	19 18 1
92-9763	Rotor Set	9 * 1	95-5984	Hydraulic Hose Assembly	29 1 1
92-9767	Hose - Hydraulic	11 18 2	95-5985	Hydraulic Hose Assembly	29 2 1
92-9767	Hose - Hydraulic	4 39 2	95-5986	Hose - Hydraulic	11 28 1
92-9773	Gear - 59B	27 13 2	95-5987	Hose - Hydraulic	11 36 1
93-1386	Section #5 Assembly	16 * 1	95-5988	Hydraulic Hose Assembly	29 16 1
93-2096	Arm - Brake	8 24 2	95-5989	Hydraulic Hose Assembly	29 13 1
93-2384	Spacer - Carrier	6 31 1	95-5997	Decal - Greensmaster 3050	2 46 1
93-2554	Valve - Needle	12 53 1	95-7113	Decal - Service	18 34 1
93-2555	Fitting - Valve Body	11 17 1	95-7118	Tank - Hydraulic	22 4 1
93-2556	Needle Valve Assembly	12 * 1	95-7119	Hose - Hydraulic	19 23 1
93-3651	Retainer - Boot	13 22 2	95-7119	Hose - Return Line	22 11 1
93-3651	Retainer - Boot	15 47 3	95-7122	Battery Base Assembly	19 47 1
93-3652	Boot - Spool Assembly	14 * 2	95-7124	Decal - Service (Spanish)	18 34 1
93-3652	Boot - Spool Assembly	16 * 3	95-7125	Decal - Service (French)	18 34 1
93-6668	Decal - Danger	19 45 1	95-7126	Decal - Service (German)	18 34 1
93-7170	Cap - Fuel	23 1 1	95-7127	Decal - Service (Swedish)	18 34 1
93-7252	Decal - C.E. Mark	19 46 1	95-7128	Decal - Service (Italian)	18 34 1
93-7276	Decal - Danger	19 44 1	95-7129	Decal - Service	18 34 1
93-7629	Pad - Brake	2 49 1	95-7130	Decal - Service (Norwegian)	18 34 1
93-7630	Pad - Mow	2 39 1	95-7131	Decal - Service (Finnish)	18 34 1
93-7631	Pad - Lift	2 37 1	95-7132	Decal - Service (Danish)	18 34 1
93-8061	Plate - Control	20 2 1	95-7133	Decal - Service (Dutch)	18 34 1
93-8062	Decal - Parking Brake	1 9 1	95-7140	Tube - Cap	17 11 1
93-8063	Decal - Danger	17 24 1	95-7142	Harness - Wire (Main)	21 1 1
93-8064	Decal - Danger	4 3 1	95-7142	Harness - Wire (Main)	20 8 1
93-8064	Decal - Danger	6 3 1	95-7142	Wire Harness - Main	25 38 1
93-8064	Decal - Danger	3 13 1	95-7143	Decal - Service (Japanese)	18 34 1
93-8065	Decal - Traction	19 38 1	95-7144	Cable Assembly - Positive	21 4 1
93-8067	Decal - Oil	18 33 1	95-7145	Wire - Engine Ground	21 6 1
93-8069	Decal - Warning	25 34 1	95-7145	Wire Asm - Engine Ground	20 37 1
93-8075	Decal - Mow/Lift	1 14 1	95-7145	Wire Asm - Engine Ground	25 37 1
93-9898	Decal - Lock	2 57 1	95-7149	Pulley - Front Steering	17 16 1
93-9901	Bracket - Lock Out, Mow	2 58 1	98-0601	Tube - Battery Drain	19 51 1
93-9903	Pin - Lock Out, Mow	2 56 1	98-0603	Boot - Terminal	19 52 1
93-9904	Arm - Lock Out, Mow	2 55 1	98-0604	Cable Assembly - Negative	25 39 1
93-9934	Traction Handle Assembly	10 12 1	98-0604	Wire - Engine Ground	21 5 1
93-9936	Bracket - Cable	10 44 1	98-0608	Idler Shaft	27 5 1
93-9937	Cable - Traction Return	10 45 1	98-0609	Shaft - Drive	27 12 1
94-2690	Filter - Fuel	23 13 1	98-0610	Pin - Dowel	27 4 4
94-2694	Cover - R.H.	19 2 1	98-0611	Body Assembly	27 7 1
94-2959	Ball Joint Receiver Assy.	4 4 2	98-0612	Bearing Plate Assembly	27 18 2
94-2959	Ball Joint Receiver Assy.	6 4 2	98-0613	Cover Assembly	27 19 1
94-2959	Ball Joint Receiver Assy.	3 25 2	98-0614	Stud - Threaded	27 2 4
94-3506	Reel Motor Assembly	29 8 3	217-60	Rim	8 3 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
217-60	Rim	28 10 1	282-2	Clevis - Rod	10 3 1
218-461	Nut - Hex.	20 16 2	283-8	Pin - Clevis	3 4 1
218-461	Nut - Hex.	18 25 2	283-8	Pin - Clevis	4 18 1
218-594	Fuse - 20 Amp	20 7 1	283-57	Pin - Clevis	10 8 1
2112-11	Clamp - Muffler	25 14 1	283-61	Pin - Clevis	1 1 5
232-24	Stem - Valve	8 1 2	283-61	Pin - Clevis	10 4 1
232-24	Valve Stem w/Cap	28 18 1	283-62	Pin - Clevis	10 46 1
233-48	Knob	10 11 1	302-2	Fitting - Grease	6 17 1
237-7	Seal - O-Ring	18 24 1	302-2	Fitting - Grease	4 23 1
237-21	Seal - O-Ring	11 11 6	302-2	Fitting - Grease Straight	3 34 1
237-21	Seal - O-Ring	6 11 2	302-5	Fitting - Grease	1 27 1
237-21	Seal - O-Ring	11 19 5	302-5	Fitting - Grease	4 29 4
237-22	Seal - O-Ring	26 2 3	302-5	Fitting - Grease	2 44 1
237-22	Seal - O-Ring	29 11 5	302-5	Fitting - Grease Straight	3 15 4
237-30	Seal - O-Ring	29 3 5	302-5	Fitting - Grease Straight	6 37 5
237-30	Seal - O-Ring	11 7 2	302-11	Fitting - Grease	28 2 1
237-30	Seal - O-Ring	18 19 1	302-55	Fitting - Grease	28 16 1
237-30	Seal - O-Ring	26 27 1	302-60	Fitting - Grease 90°	3 8 2
237-42	Seal - O-Ring	26 4 3	302-60	Fitting - Grease 90°	4 17 2
237-42	Seal - O-Ring	29 9 3	302-60	Fitting - Grease 90°	6 32 1
237-42	Seal - O-Ring	11 15 3	304-61	Clamp - R	11 23 1
237-54	O-Ring	15 3 6	321-3	Screw - Cap Hex. Hd.	19 10 4
237-54	O-Ring	13 6 8	321-3	Screw - Cap Hex. Hd.	18 13 1
237-58	Seal - O-Ring	11 34 1	321-3	Screw - Cap Hex. Hd.	2 52 3
237-65	Seal - O-Ring	11 2 6	321-3	Screw - Hex. Hd.	22 9 2
237-65	Seal - O-Ring	8 15 4	321-4	Screw - Cap Hex. Hd.	8 31 1
237-78	Seal - O-Ring	6 14 2	321-4	Screw - Hex. Flange Hd.	1 16 2
237-78	Seal - O-Ring	3 38 2	321-5	Screw - Cap Hex. Hd.	20 21 1
237-78	Seal - O-Ring	4 38 2	321-5	Screw - Cap Hex. Hd.	8 26 8
237-79	Seal - O-Ring	29 7 3	321-11	Screw - Cap Hex. Hd.	2 43 1
237-79	Seal - O-Ring	11 9 4	321-11	Screw - Hex. Washer Hd.	8 17 1
237-80	Seal - O-Ring	8 13 4	321-15	Screw - HH	17 23 1
237-80	Seal - O-Ring	26 25 1	322-1	Screw - Cap Hex. Hd.	3 1 3
237-80	Seal - O-Ring	11 32 3	322-1	Screw - Cap Hex. Hd.	4 21 3
237-81	Seal - O-Ring	11 38 1	322-1	Screw - Cap Hex. Hd.	6 30 2
237-101	Seal - O-Ring	19 26 2	322-2	Screw - Cap Hex. Hd.	18 1 2
237-143	Grommet	19 40 2	322-3	Screw - Cap Hex. Hd.	6 25 1
240-11	Grommet	23 3 4	322-3	Screw - Cap Hex. Hd.	25 32 6
242-50	Nut - Lug	28 8 4	322-3	Screw - HH	28 6 1
242-50	Nut - Lug	8 29 8	322-4	Screw - Cap Hex. Hd.	19 36 4
2410-18	Plug	31 2 1	322-4	Screw - HH	17 7 2
2410-64	Plug - Hole	20 6 1	322-5	Screw - Cap Hex. Hd.	10 36 2
2411-42	Joint - Ball L.H. Thread	10 30 1	322-6	Screw - Cap Hex. Hd.	26 18 4
2411-43	Joint - Ball R.H. Thread	10 33 1	322-8	Screw - Cap Hex. Hd.	25 21 2
2412-34	Clamp - Hose	22 8 3	322-11	Screw - HH	19 48 2
2412-34	Clamp - Hose	26 10 2	322-14	Screw - Cap Hex. Hd.	11 39 3
2412-34	Clamp - Hose	19 24 3	323-6	Screw - Cap Hex. Hd.	23 6 3
2412-36	Clamp - Hose	23 16 2	323-8	Screw - Cap Hex. Hd.	26 24 2
2412-41	Clamp - R	23 5 3	323-12	Screw - Cap Hex. Hd.	25 1 3
2412-41	Clamp - R	11 47 2	323-13	Screw - Cap Hex. Hd.	1 5 4
2412-94	Clamp - R	23 10 1	324-7	Screw - Cap Hex. Hd.	25 30 4
2412-108	Clamp - Hose	23 12 4	325-2	Screw - HH	17 9 4
2412-133	Clamp - R	18 4 2	325-11	Screw - Cap Hex. Hd.	8 9 8
250-6	Tie - Cable	25 * 2	3211-2	Screw - Cap Hex. Hd.	10 19 2
251-141	Bearing - Ball	3 22 2	3217-5	Nut - Hex.	19 12 2
251-141	Bearing - Ball	4 37 2	3217-6	Nut - Hex.	10 48 1
251-141	Bearing - Ball	6 45 2	3217-7	Nut - Hex.	13 33 3
253-111	Seal - Shaft	28 12 2	3217-16	Nut - Hex.	20 33 3
254-61	Cup - Bearing	28 3 2	3217-25	Nut - Hex.	20 35 2
254-70	Cone - Bearing	28 4 2	3217-27	Nut - Hex.	20 10 2
254-78	Cone - Bearing	28 13 2	3218-13	Nut - Jam	19 8 2
254-79	Cup - Bearing	28 14 2	3219-2	Nut - Hex.	32 6 1
256-2	Bushing	17 6 4	3219-14	Nut - Hex.	19 7 2
256-2	Bushing - Sleeve	10 20 2	3219-18	Nut - Hex.	31 2 1
256-113	Bushing	17 13 2	3220-2	Nut - Jam	10 2 2
256-155	Bushing - Flange	10 26 2	3220-2	Nut - Jam	1 3 5
256-155	Bushing - Flange	18 28 2	3220-3	Nut - Jam	4 2 2
256-251	Bushing - Sleeve	10 10 2	3220-3	Nut - Jam	6 2 2
282-2	Clevis - Adjusting	1 2 5	3220-3	Nut - Jam	3 23 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3220-6	Nut - Jam	5 14 1	3274-68	Screw - Hex. Socket Hd.	1 15 4
3220-20	Nut - Jam L.H. Thread	10 31 1	3274-69	Screw - Hex. Socket Hd.	20 1 8
3229-11	Bolt - Carriage	1 10 2	3274-69	Screw - Hex. Socket Hd.	19 4 3
3234-1	Screw - Cap Hex. Hd.	2 53 4	3274-70	Screw - Hex. Socket Hd.	13 1 2
3234-1	Screw - Hex. Flange Hd.	10 6 4	3274-84	Screw - Cap, Hex. Hd.	16 58 4
3234-4	Screw - Cap Hex. Hd.	11 46 1	3284-3	Pin - Groove	18 15 1
3234-24	Screw - HH	28 22 3	3290-314	Nut - Push	17 21 2
3241-2	Screw - Set Square Hd.	26 19 2	3290-317	Washer - Wave	3 18 2
3241-6	Screw - Set Square Hd.	26 13 2	3290-317	Washer - Wave	4 32 2
3253-3	Washer - Lock	25 26 4	3290-317	Washer - Wave	6 40 2
3253-3	Washer - Lock	16 57 4	3290-357	Nut - Flange Lock	25 8 3
3253-4	Washer - Lock	18 2 2	3290-378	Tie - Cable	25 * 2
3253-4	Washer - Lock	19 9 2	3290-379	Tie - Cable	6 46 2
3253-6	Washer - Lock	25 29 4	3290-470	Screw - Flat Hd.	19 22 2
3253-21	Washer - Lock	26 23 2	3296-4	Nut - Lock	10 22 2
3253-21	Washer - Lock	4 27 2	3296-4	Nut - Lock NI	28 5 2
3253-21	Washer - Lock	3 35 2	3296-16	Nut - Lock	22 10 4
3253-21	Washer - Lock	6 35 2	3296-16	Nut - Lock	18 11 1
3254-1	Washer - Lock	19 6 2	3296-16	Nut - Lock	17 18 1
3254-5	Washer - Lock	20 15 2	3296-16	Nut - Lock	1 21 2
3254-6	Washer - I.T.L.W.	10 18 2	3296-16	Nut - Lock	20 24 9
3254-10	Washer - Lock, Int. Tooth	20 31 2	3296-16	Nut - Lock	19 34 3
3255-7	Washer - Lock, Int. Tooth	20 29 1	3296-16	Nut - Lock	12 49 1
3255-8	Washer - Lock, Int. Tooth	32 9 1	3296-23	Nut - Lock	8 19 8
3255-20	Washer - Lock, Ext. Tooth	20 34 2	3296-27	Nut - Lock	20 11 4
3255-24	Washer - Lock, Ext. Tooth	20 32 3	3296-29	Nut - Hex. Lock	19 49 2
3256-1	Washer - Flat	25 18 8	3296-29	Nut - Lock	18 8 4
3256-1	Washer - Flat	20 20 9	3296-29	Nut - Lock	17 10 2
3256-1	Washer - Flat	2 51 9	3296-29	Nut - Lock	26 14 4
3256-4	Washer - Flat	17 3 6	3296-29	Nut - Lock	10 16 3
3256-22	Washer - Flat	19 3 5	3296-29	Nut - Lock	6 29 1
3256-22	Washer - Flat	22 7 2	3296-39	Nut - Lock	1 20 2
3256-22	Washer - Flat	8 30 2	3296-42	Nut - Lock	8 25 8
3256-22	Washer - Flat	12 52 1	3296-47	Nut - Lock	17 2 2
3256-23	Washer - Flat	3 2 3	3296-59	Nut - Lock	10 15 4
3256-23	Washer - Flat	26 17 4	3296-59	Nut - Lock	1 34 8
3256-23	Washer - Flat	4 20 3	3296-67	Nut - Lock	28 23 1
3256-23	Washer - Flat	25 23 2	32103-12	Nut - Wing	19 14 2
3256-23	Washer - Flat	6 28 3	32104-76	Screw - Acorn	17 12 2
3256-23	Washer - Flat	18 30 4	32104-76	Screw - Self Tapping	19 1 5
3256-23	Washer - Flat	19 35 4	32104-95	Screw - Hex. Hd.	20 36 1
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	17 8 4	32121-35	Pin - Roll	1 32 8
3256-26	Washer - Flat	4 12 1	32121-44	Pin - Roll	17 17 1
3256-26	Washer - Flat	6 20 1	32121-45	Pin - Roll	18 14 1
3256-26	Washer - Flat	3 31 1	32121-45	Pin - Roll	10 28 1
3256-38	Washer - Flat	2 35 6	32121-51	Pin - Roll	10 43 1
3256-63	Washer - Flat	23 7 1	32122-35	Screw - Truss Head	32 8 1
3257-42	Key - Woodruff	8 11 2	32128-20	Nut - Flange Lock	11 24 3
3257-42	Key - Woodruff	9 17 1	32128-20	Nut - Flange Lock	10 27 1
3272-4	Pin - Cotter	10 13 1	32128-20	Nut - Flange Lock	25 31 8
3272-6	Pin - Cotter	1 30 5	32128-20	Nut - Lock, Flange	32 3 1
3272-6	Pin - Cotter	10 41 1	32128-33	Nut - Flange Lock	1 18 2
3272-10	Pin - Cotter	10 47 1	32128-33	Nut - Lock	8 32 1
3272-11	Pin - Cotter	3 5 2	32136-9	Nut - Hex. Slotted	28 26 1
3272-11	Pin - Cotter	18 9 1	32141-111	Nut Flange Lock	1 11 1
3272-11	Pin - Cotter	4 13 2	32144-34	Screw - Hex. Slot	22 2 6
3272-11	Pin - Cotter	6 19 1	32148-6	Insert - Threaded	1 19 8
3272-37	Pin - Cotter	28 1 1	32149-2	Nut - Keps	19 37 2
3273-26	Screw - Hex. Socket Hd.	20 18 4	32149-7	Nut - Keps	19 41 2
3274-7	Screw - Socket Hd.	25 9 2	32151-41	Ring - Retaining	30 13 1
3274-12	Screw - Hex. Socket Hd.	18 29 4	32152-10	Nut - Hex.	7 2 1
3274-15	Screw - Fillister Hd.	13 43 2	32152-10	Nut - Lock	5 2 1
3274-19	Screw - Hex. Socket Hd.	22 6 2	340-14	Fitting - Hydraulic 45°	8 14 4
3274-52	Screw - Hex. Socket Hd.	13 20 4	340-16	Fitting - Hydraulic 90°	11 33 1
3274-52	Screw - Hex. Socket Hd.	15 45 6	340-18	Fitting - Hydraulic 90°	11 13 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
340-77	Fitting - Hydraulic 90°	29 10 2	353-733	Spacer - Bonnet	15 19 2
340-77	Fitting - Hydraulic 90°	11 14 2	353-737	Ball	16 63 1
340-87	Fitting - Hydraulic 45°	26 3 3	353-758	Seal - O-Ring	13 31 1
340-87	Fitting - Hydraulic 45°	29 15 1	353-760	Body Relief	13 30 1
340-98	Fitting - Hydraulic 90°	29 14 3	353-762	Spud - Detent Out	14 49 1
340-101	Fitting - Hydraulic 45°	11 8 1	353-766	Relief WH (2000) PSI Assy.	14 * 1
340-103	Fitting - Hydraulic 45°	6 12 2	353-768	Section #1 Complete	14 * 1
340-105	Fitting - Hydraulic 90°	26 26 1	353-772	Left End Cover	13 34 1
340-138	Fitting - Hydraulic 45°	11 12 2	353-780	Bonnet - R. Detent	13 42 1
351-78	Edging	18 40 1	353-780	Cap - Adjustment	13 44 1
353-3	Bearing Plate Assembly	27 14 1	353-780	Positioner - R. Detent (Out)	14 * 1
353-301	Poppet	13 27 1	353-808	Collar - Spring	15 24 1
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	16 * 1
353-304	Spring	13 28 1	353-837	Section #2 Complete	14 * 1
353-305	O-Ring	15 5 5	353-839	Positioner - DI (SPL) Assy.	14 * 1
353-305	O-Ring	13 8 4	353-840	Position - DI (SP) Assy.	16 * 1
353-306	Ring - Backup	15 4 5	353-841	Position - Spool Assembly	16 * 1
353-306	Ring - Backup	13 7 4	353-844	Plus Series	16 55 1
353-328	Washer - Shim	13 15 A/R	353-845	Sleeve - Detent	15 41 1
353-328	Washer - Shim	15 32 A/R	353-846	Spud - DI (SPL)	15 40 1
353-329	Washer - Shim	13 16 A/R	353-847	Bonnet (SPL)	15 38 1
353-329	Washer - Shim	15 33 A/R	353-848	O-Ring	15 14 1
353-330	Washer - Shim	13 17 A/R	353-849	Sleeve	15 39 1
353-330	Washer - Shim	15 34 A/R	353-850	O-Ring	16 56 1
353-331	O-Ring	13 29 1	353-851	Body - Relief CP-RC Mod.	13 12 1
353-334	Cap - Relief	13 19 2	353-851	Body - Relief CP-RC Mod.	15 29 2
353-334	Cap - Relief	15 36 2	353-853	Bolt - Hex Hd.	15 10 3
353-392	Seal - Relief Poppet PTFE	13 13 2	353-855	Spring	13 18 2
353-392	Seal - Relief Poppet PTFE	15 30 2	353-855	Spring	15 44 1
353-398	Spring	15 35 1	353-884	Key - Woodruff	27 11 5
353-417	Collar Spring	15 20 2	353-886	Ring - Retaining	27 10 4
353-417	Collar Spring	13 40 2	353-919	Plate - Gear Pump B	27 6 1
353-481	Plug - Load Check	15 2 3	353-922	Seal - Ring	27 15 8
353-481	Plug - Load Check	13 5 3	353-952	Ring - Backup	13 32 1
353-483	Body - Anticavitation	16 61 1	353-953	Plug Assembly	16 54 1
353-484	Retainer - Ball	16 62 1	353-957	Seal - Lip	15 15 6
353-529	Plate Seal	15 22 1	353-957	Seal - Lip	13 26 4
353-531	Poppet Assembly	15 31 2	353-958	Ring - Backup	15 16 1
353-531	Poppet Assy.	13 14 2	353-961	Flange	22 15 1
353-550	Plug Assembly	15 13 1	353-962	Cap	22 13 1
353-563	Fitting - Hydraulic Straight	19 25 1	353-963	Gasket	22 16 2
353-564	Fitting - Hydraulic 90°	19 31 1	353-967	Gear - 33B	27 16 6
353-575	Boot - Dust Cap	13 21 2	353-969	Plate - Gear 33B	27 17 3
353-575	Boot - Dust Cap	15 46 3	354-11	Pin - Dowel	27 3 4
353-579	Spring	13 45 1	354-15	Seal - Shaft	27 9 1
353-599	Pin - Dowel	30 3 2	354-16	Washer - Lock	27 1 4
353-642	Relief - RC Mod.	14 * 2	354-25	Section #4 Assembly	16 * 1
353-642	Relief - RC Mod. Assembly	16 * 1	354-26	Bonnet	15 27 2
353-668	Plate - Cap, Cover RH	15 11 1	354-28	Screw - Hex, Socket Hd.	15 28 2
353-721	Plug	13 35 2	354-29	Plate - Thrust	14 48 1
353-727	Bonnet	13 2 1	354-46	Ring - Seal	30 8 1
353-728	Sleeve	14 50 1	354-50	Screw - Hex Socket Hd.	30 1 4
353-729	Spud - Detent	13 3 1	354-51	Washer	30 2 4
353-730	Spring	15 42 1	354-122	Disc - Seal	16 52 1
353-731	Ball	15 43 1	354-129	Anticavitation Check Assy.	16 * 1
353-732	Sleeve - Detent	14 52 1	354-131	Section #3 Assembly	16 * 1
353-733	Spacer - Bonnet	13 4 1			

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 3050 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 3050, 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 3050.
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.

TABLE OF CONTENTS

Description	Page	Description	Page
Control Pedal Assembly	1–2	Frame Assembly	19
Pull Frame Assembly L.H.	3	Control Panel Assembly	20
Pull Frame Assembly R.H.	4	Electrical Schematic	21
Hydraulic Cylinder Assembly No. 83–2580	5	Hydraulic Reservoir Assembly	22
Pull Frame Assembly Rear	6	Fuel Tank Assembly	23
Hydraulic Cylinder Assembly No. 83–7230	7	Hydraulic Schematic	24
Front Wheel & Brake Assembly	8	Engine Installation Assembly	25
Hydraulic Drive Motor Assembly No. 92–9199	9	Hydraulic Pump Installation Assembly	26
Traction Controls Assembly	10	Hydraulic Pump Assembly No. 95–5976	27
Control Valve Installation Assembly	11–12	Rear Wheel Assembly	28
Control Valve Assembly No. 84–2203		Reel Motor Installation Assembly	29
(Sections 1 & 2)	13–14	Reel Motor Assembly No. 94–3506	30
Control Valve Assembly No. 84–2203		Special Tools	31–32
(Sections 3 thru 5)	15–16	Briggs & Stratton Engine Assembly	
Steering Arm Assembly	17	Model 303447–1179–A1	33–44
Seat Assembly	18	Part Number Index	45–50

