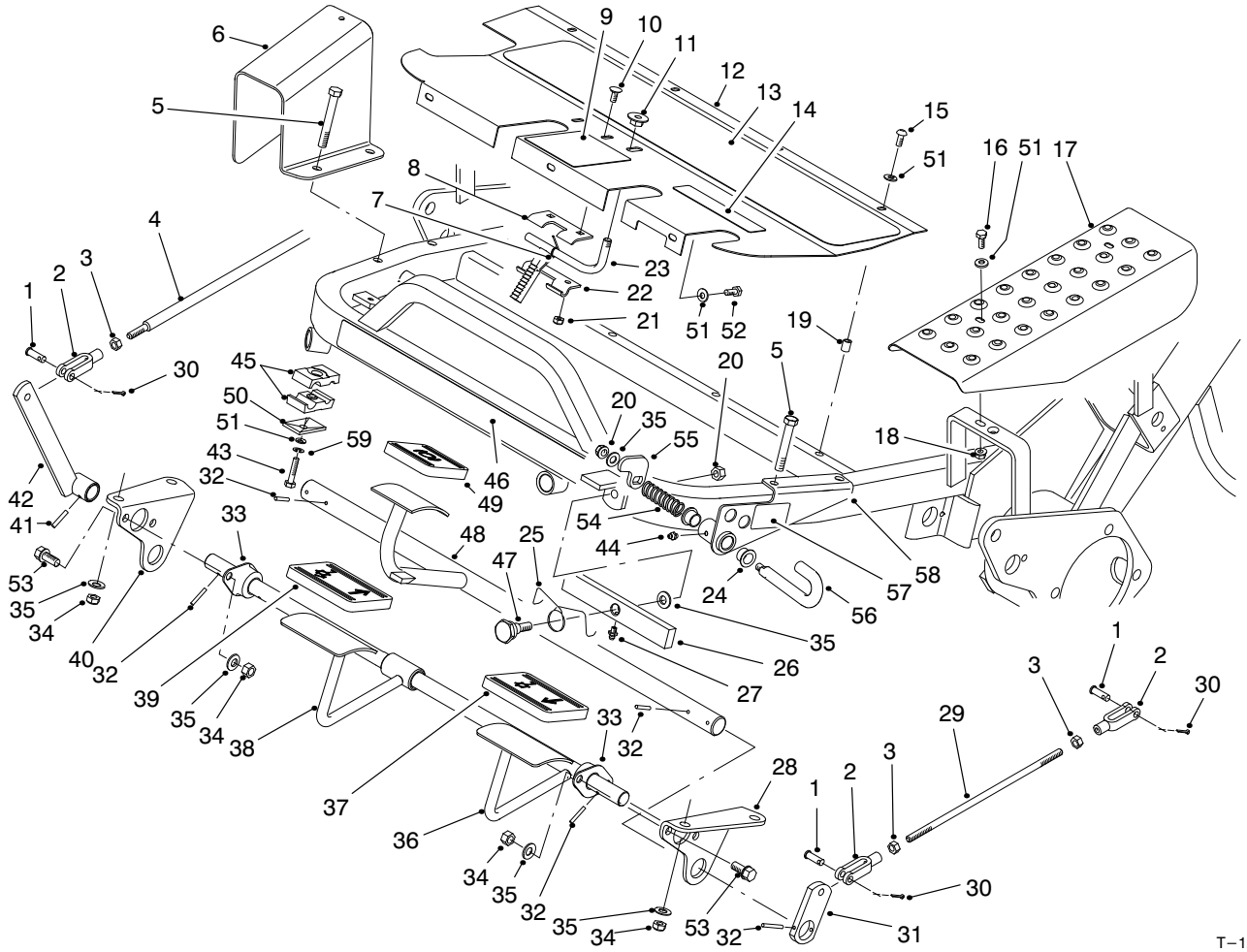
FORM NO. 3322−413

TORO®

MODEL NO. 04353−90001 & UP

PARTS CATALOG

GREENSMASTER® 3100
TRACTION UNIT



CONTROL PEDAL ASSEMBLY

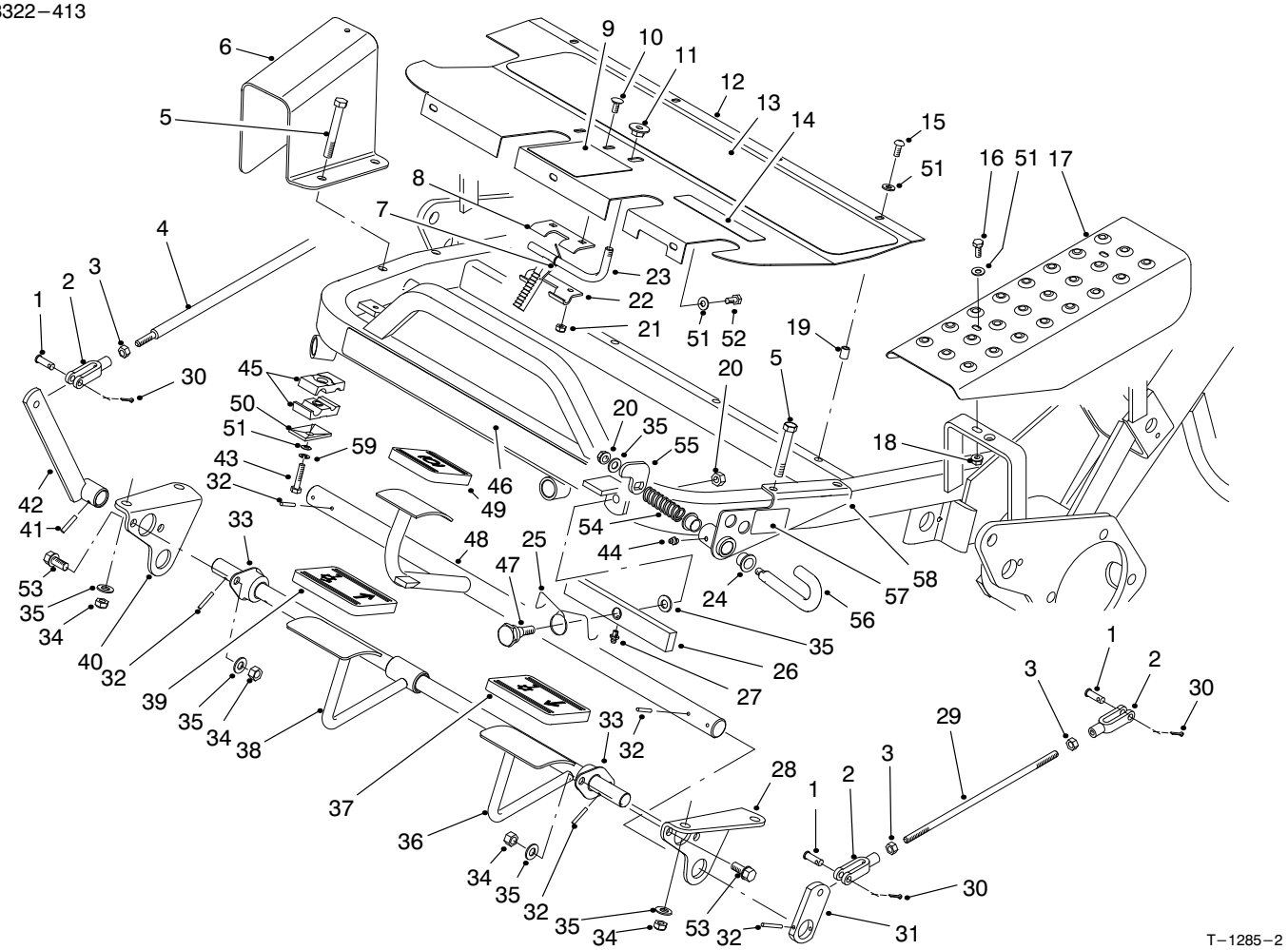
Ref. No.	Part No.	Description	No. Used
1	283−61	Pin − Clevis	5
2	282−2	Clevis − Adjusting	5
3	3220−2	Nut − Jam	5
4	49−5430	Rod − Control	1
5	323−13	Screw − HH	4
6	49−6110	Guard − Transfer Rod	1
7	10−8140	Spring − Torsion	1
8	95−1628	Hinge − Upper	1
9	93−8062	Decal − Parking Brake	1
9	83−2480	Decal −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

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

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TPS

3322−413

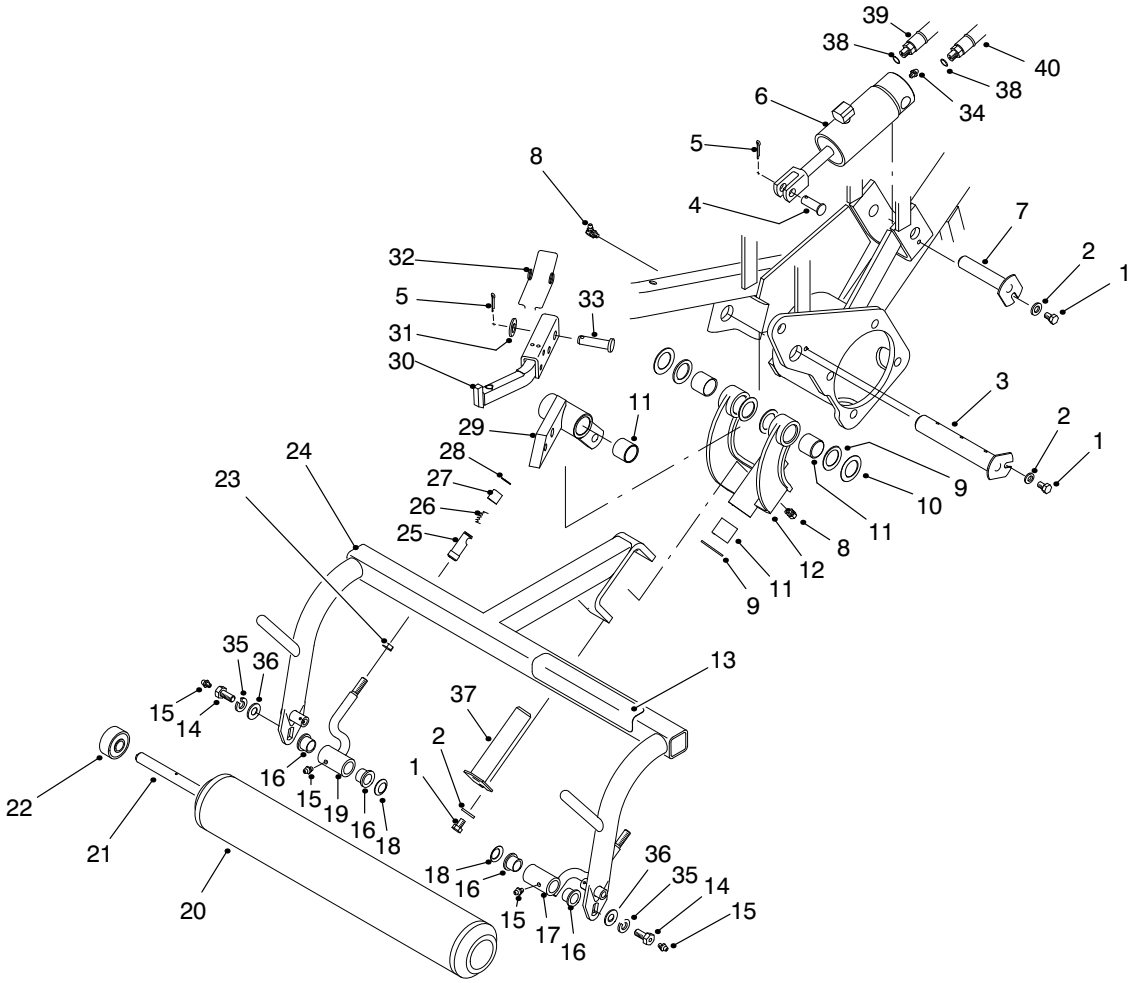


CONTROL PEDAL ASSEMBLY (Continued)

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 RH	1
41	32121−6	Pin − Roll	1
42	49−6200	Lever − Cutting Control	1
43	321−11	Screw − HH	1
44	302−5	Fitting − Grease	1
45	56−7970	Clamp Half − Tube	2
46	88−9620	Decal − Greensmaster 3100	1

Ref. No.	Part No.	Description	No. Used
47	83−2590	Bolt − Eccentric	1
48	83−0160	Shaft − Brake	1
49	93−7629	Pad − Brake	1
50	69−9760	Plate − Cover	1
51	3256−1	Washer − Flat	9
52	321−3	Screw − HH	3
53	3234−1	Screw − HH	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
59	3253−3	Washer−Lock	1
*	37−8130	Basket − Grass	3
*	65−8320	Bar − Gauge	1

*Not Illustrated

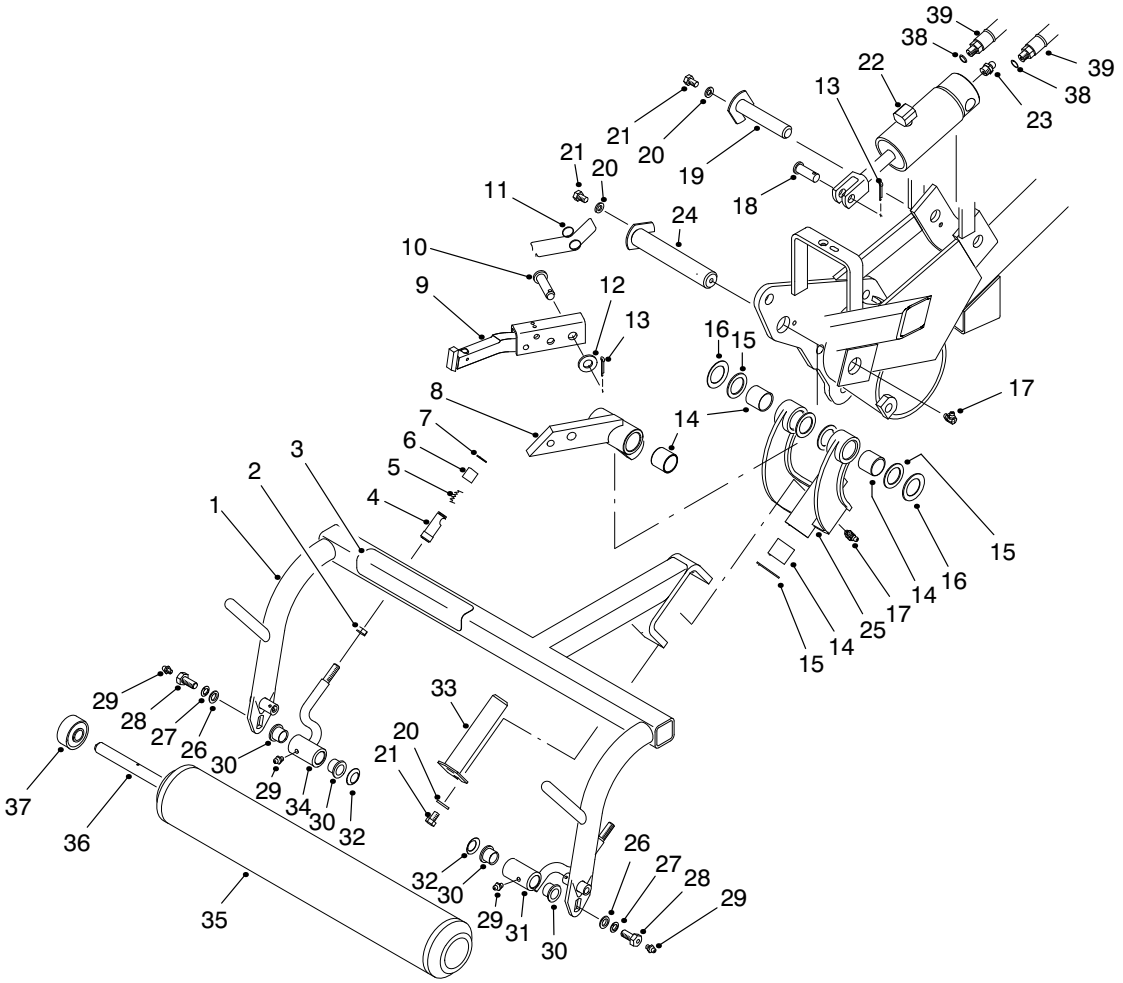


T−1283

PULL FRAME ASSEMBLY L.H.

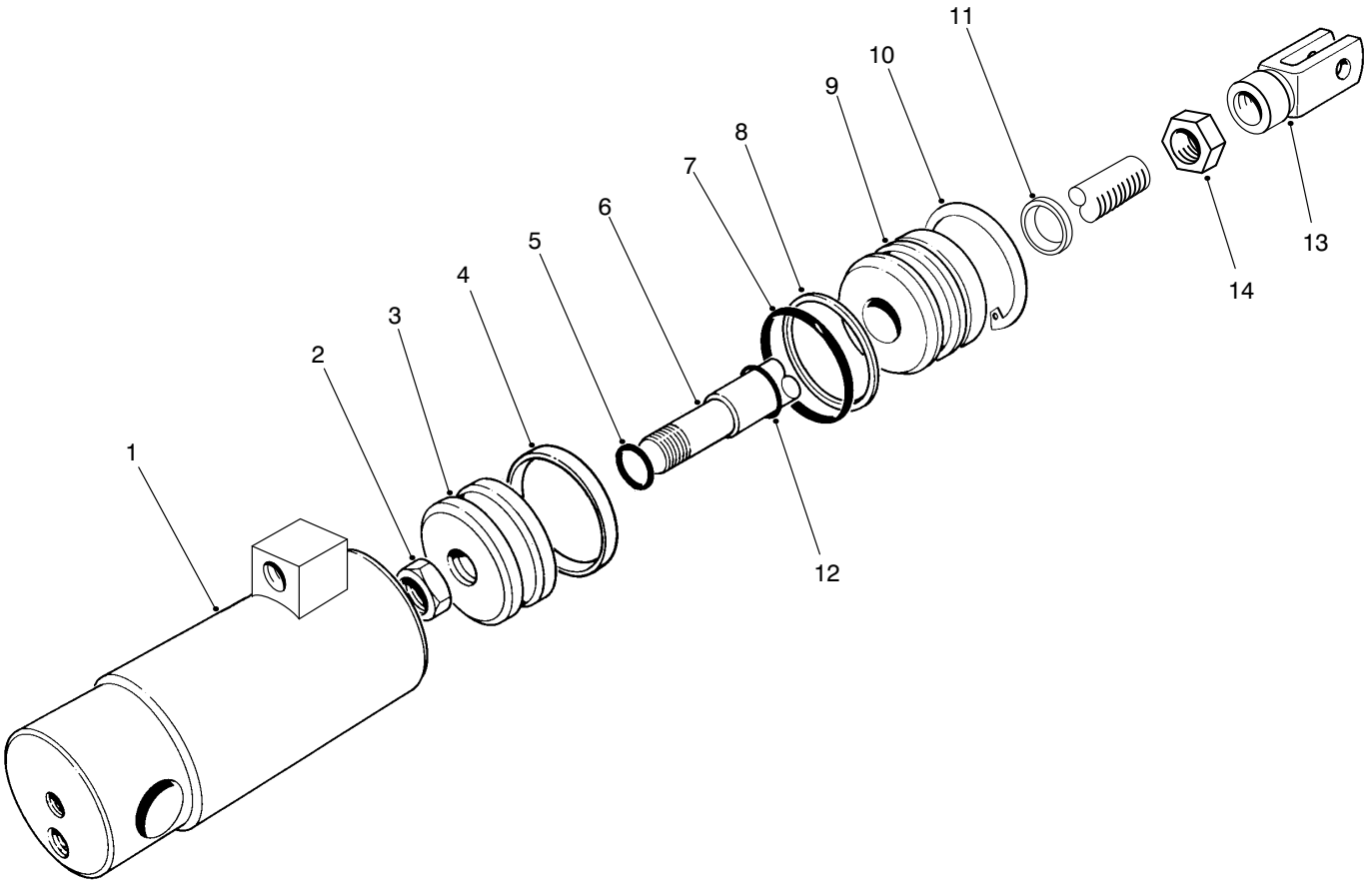
Ref. No.	Part No.	Description	No. Used
1	322−1	Screw − HH	3
2	3256−23	Washer − Flat	3
3	10−6110	Pin − Hinge	1
4	283−8	Pin − Clevis	1
5	3272−11	Pin − Cotter	2
6	83−2580	Hydraulic Cylinder Assembly (Serial No. 90001−90128)	1
6	99−8159	Hydraulic Cylinder Assembly (Serial No. 90129 & Up)	1
7	10−6060	Pin − Lift Cylinder	1
8	302−60	Fitting − Grease 90°	2
9	10−8110	Washer − Thrust	6
10	5−1226	Washer − Shim	2
11	3−0348	Bushing − Sleeve	6
12	10−7820	Asm−Pivot Hinge (Incl. Ref. #11)	1
13	93−8064	Decal − Danger	1
13	84−6560	Decal − Danger (Japanese)	1
14	11−0160	Asm−Roller Shaft Screw (Incl. Ref. #15)	2
15	302−5	Fitting − Grease Straight	4
16	3−1506	Bushing − Flange	4
17	92−0586	Asm−Pull Arm, LH (Incl. Ref. #16)	1
18	3290−317	Washer − Wave	2
19	92−0585	Asm−Pull Arm, RH (Incl. Ref. #16)	1

Ref. No.	Part No.	Description	No. Used
20	52−2720	Asm−Roller (Incl. Ref. #22)	1
21	21−8470	Shaft − Roller	1
22	251−141	Bearing − Ball	2
23	3220−3	Nut − Jam	2
24	92−9176	Frame − Pull, L.H.	1
25	99−1460	Asm−Ball Joint Receiver (Incl. Ref. #26−28)	2
26		Spring − Compression	2
27	99−1461	Sleeve	2
28		Ring − Retaining	2
29	62−2460	Asm−Lift Arm, LH (Incl. Ref. #11)	1
30	94−5586	Bar − Lift, LH	1
31	3256−26	Washer − Flat	1
32	57−7650	Spring − Torsion	1
33	63−8750	Pin − Pivot	1
34	302−2	Fitting − Grease Straight	1
35	3253−21	Washer − Lock	2
36	3256−24	Washer − Flat	2
37	10−6090	Pin − Pivot	1
38	237−78	O−Ring	2
39	63−3850	Hose − Hydraulic (Incl. Ref. #38)	1
40	83−1690	Hose − Hydraulic (Incl. Ref. #38)	1



PULL FRAME ASSEMBLY R.H.

Ref. No.	Part No.	Description	No. Used
1	92−9177	Frame − Pull, RH	1
2	3220−3	Nut − Jam	2
3	93−8064	Decal − Danger	1
3	84−6560	Decal − Danger (Japanese)	1
4	99−1460	Asm−Ball Joint Receiver (Incl. Ref. #5−7)	2
5		Spring − Compression	2
6	99−1461	Sleeve	2
7		Ring − Retaining	2
8	62−2440	Asm−Lift Arm (Incl. Ref. #14)	1
9	94−5588	Bar − Lift, RH	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 − HH	3
22	83−2580	Hydraulic Cylinder Assembly (Serial No. 90001−90128)	1
22	99−8159	Hydraulic Cylinder Assembly (Serial No. 90129 & Up)	1
23	302−2	Fitting − Grease	1
24	10−6110	Pin − Pivot	1
25	10−7820	Asm−Pivot Hinge (Incl. Ref. #14)	1
26	3256−24	Washer − Flat	2
27	3253−21	Washer − Lock	2
28	11−0160	Asm−Roller Shaft Screw (Incl. Ref. #29)	2
29	302−5	Fitting − Grease	4
30	3−1506	Bushing − Flange	4
31	92−0586	Asm−Pull Arm, LH (Incl. Ref. #30)	1
32	3290−317	Washer − Wave	2
33	10−6090	Pin − Pivot	1
34	92−0585	Asm−Pull Arm, RH (Incl. Ref. #30)	1
35	52−2720	Asm−Roller (Incl. Ref. #37)	1
36	21−8470	Shaft − Roller	1
37	251−141	Bearing − Ball	2
38	237−78	O−Ring	2
39	92−9767	Hose − Hydraulic (Incl. Ref. #38)	2



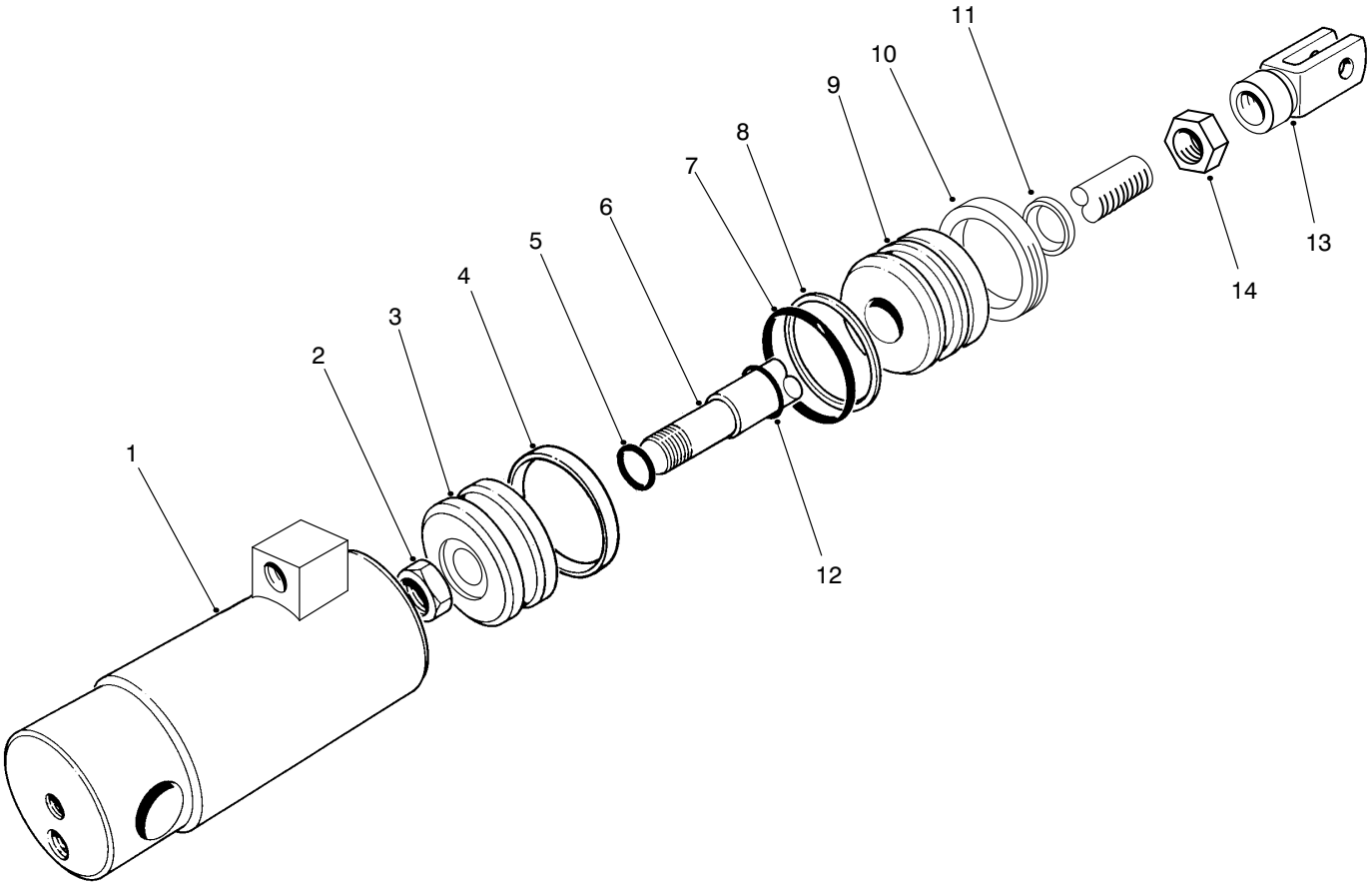
T−1246

HYDRAULIC CYLINDER ASSEMBLY NO. 83−2580 (Serial No. 90001 thru 90128)

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		O−Ring	1
6	76−1860	Shaft	1
7		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	Kit−Seal (Incl. Ref. #4, 5, 7, 8, 11 & 12)	1

*Not Illustrated

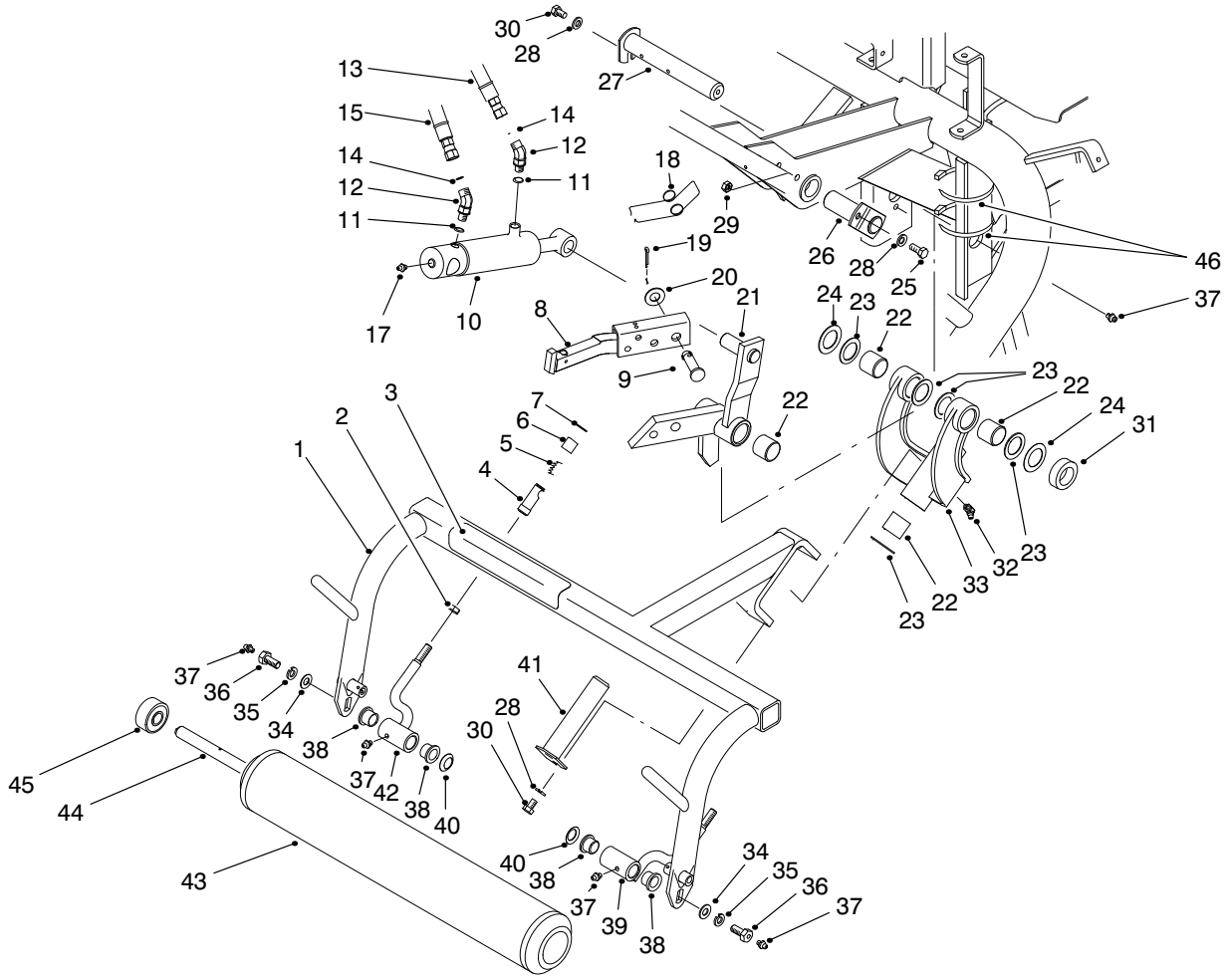


T−3154−1

HYDRAULIC CYLINDER ASSEMBLY NO. 99−8159 (Serial No. 90129 & Up)

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		O−Ring	1
6		Shaft	1
7		O−Ring	1
8		Washer − Back−Up	1
9		Head	1
10		Collar − Internal	1
11		Seal − Dust	1
12		Seal − Rod	1
13	76−1850	Clevis	1
14	3220−6	Nut − Jam	1
*	99−8163	Kit−Seal (Incl. Ref. #4, 5, 7, 8, 11 & 12)	1

*Not Illustrated

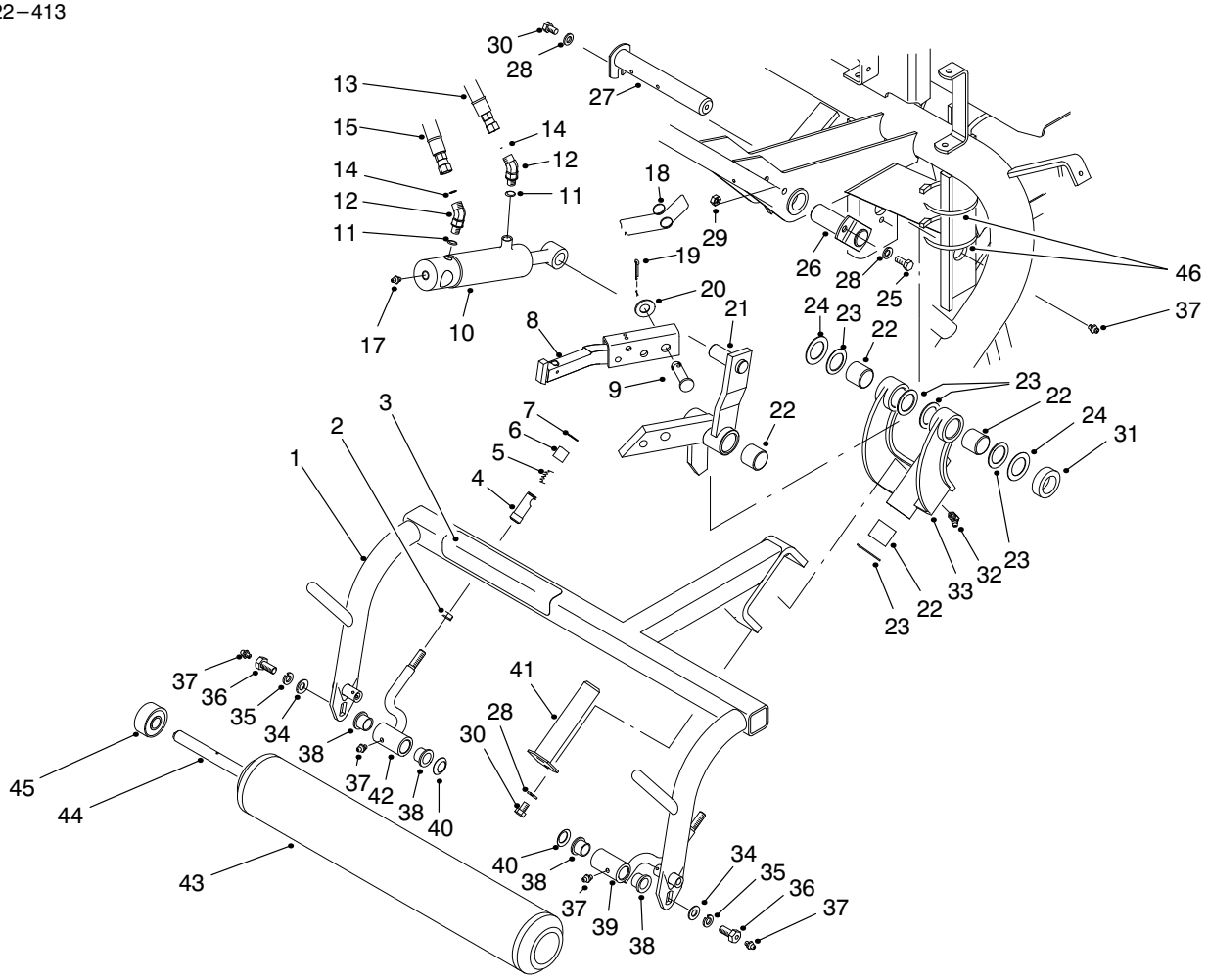


T−1286−2

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	99−1460	Asm−Ball Joint Receiver (Incl. Ref. 5−7)	2
5		Spring − Compression	2
6	99−1461	Sleeve	2
7		Ring − Retaining	2
8	62−2420	Bar − Lift	1
9	63−8750	Pin − Pivot	1
10	83−7230	Hydraulic Cylinder Assembly (Serial No. 90001−90128)	1
10	99−8160	Hydraulic Cylinder Assembly (Serial No. 90129 & Up)	1
11	237−35	O−Ring	2
12	340−103	Fitting − Hydraulic 45° (Incl. Ref. #11 & 14)	2
13	83−1680	Hose − Hydraulic	1
14	237−78	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	Asm−Lift Arm (Incl. Ref. #22)	1

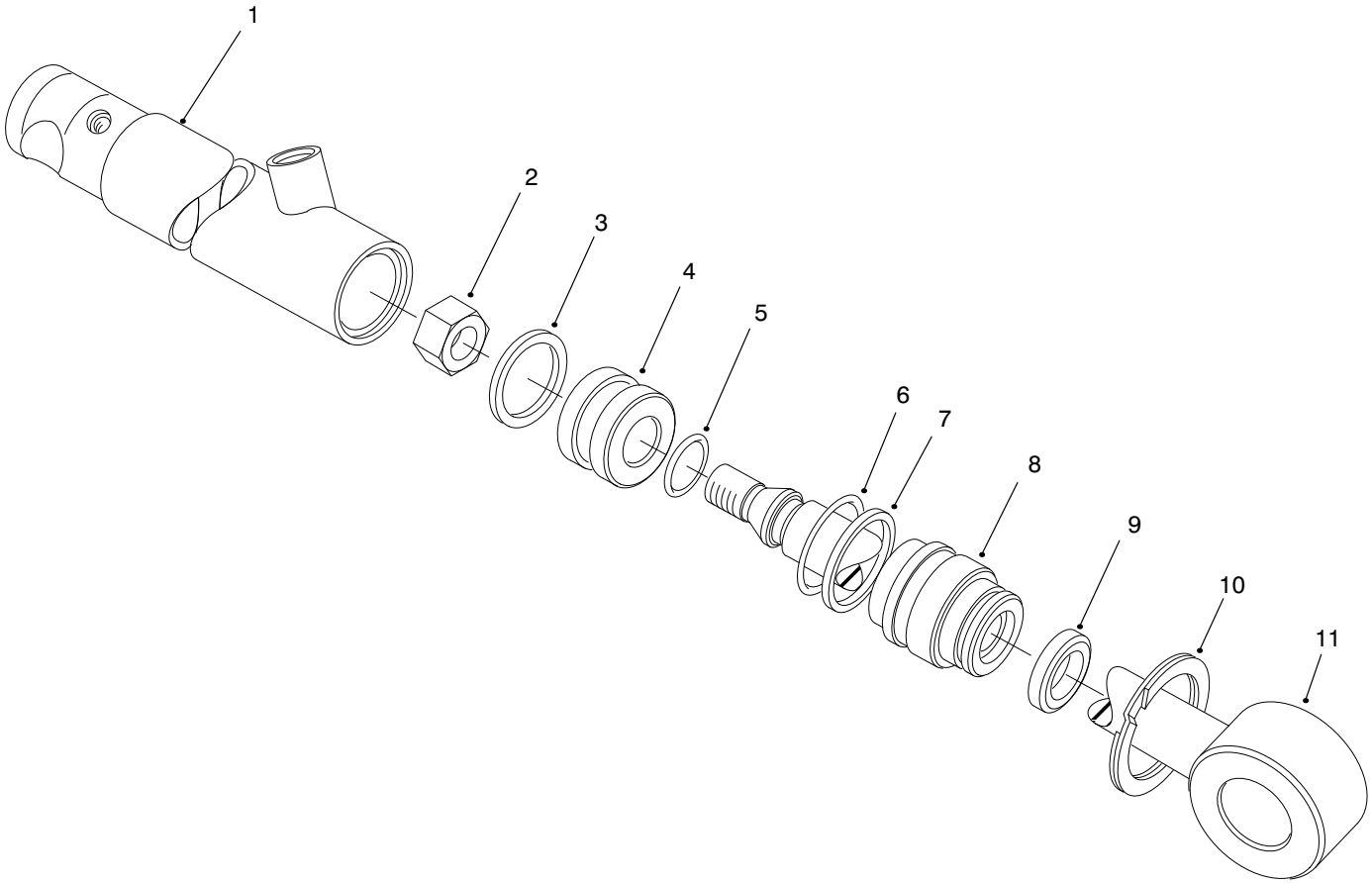
Ref. No.	Part No.	Description	No. Used
22	3−0348	Bushing − Sleeve	6
23	10−8110	Washer − Thrust	6
24	5−1226	Washer − Shim	2
25	322−3	Screw − HH	1
26	68−5560	Pin − Cylinder Pivot	1
27	27−2550	Pin − Pivot	1
28	3256−23	Washer − Flat	3
29	3296−29	Nut − Lock	1
30	322−1	Screw − HH	2
31	93−2384	Spacer − Carrier	1
32	302−60	Fitting − Grease 90°	1
33	10−7820	Asm−Pivot Hinge (Incl.Ref. #22)	1
34	3256−24	Washer − Flat	2
35	3253−21	Washer − Lock	2
36	11−0160	Asm−Roller Shaft Screw (Incl. Ref. #37)	2
37	302−5	Fitting − Grease, Straight	5
38	3−1506	Bushing − Flange	4
39	92−0586	Asm−Pull Arm, LH (Incl. Ref. #38)	1
40	3290−317	Washer − Wave	2
41	10−6090	Pin − Pivot	1
42	92−0585	Asm−Pull Arm, RH (Incl. Ref. #38)	1
43	52−2720	Asm−Roller (Incl. Ref. #45)	1



PULL FRAME ASSEMBLY REAR (Continued)

Ref. No.	Part No.	Description	No. Used
44	21−8470	Shaft − Roller	1
45	251−141	Bearing − Ball	2

Ref. No.	Part No.	Description	No. Used
46	3290−379	Tie − Cable	1



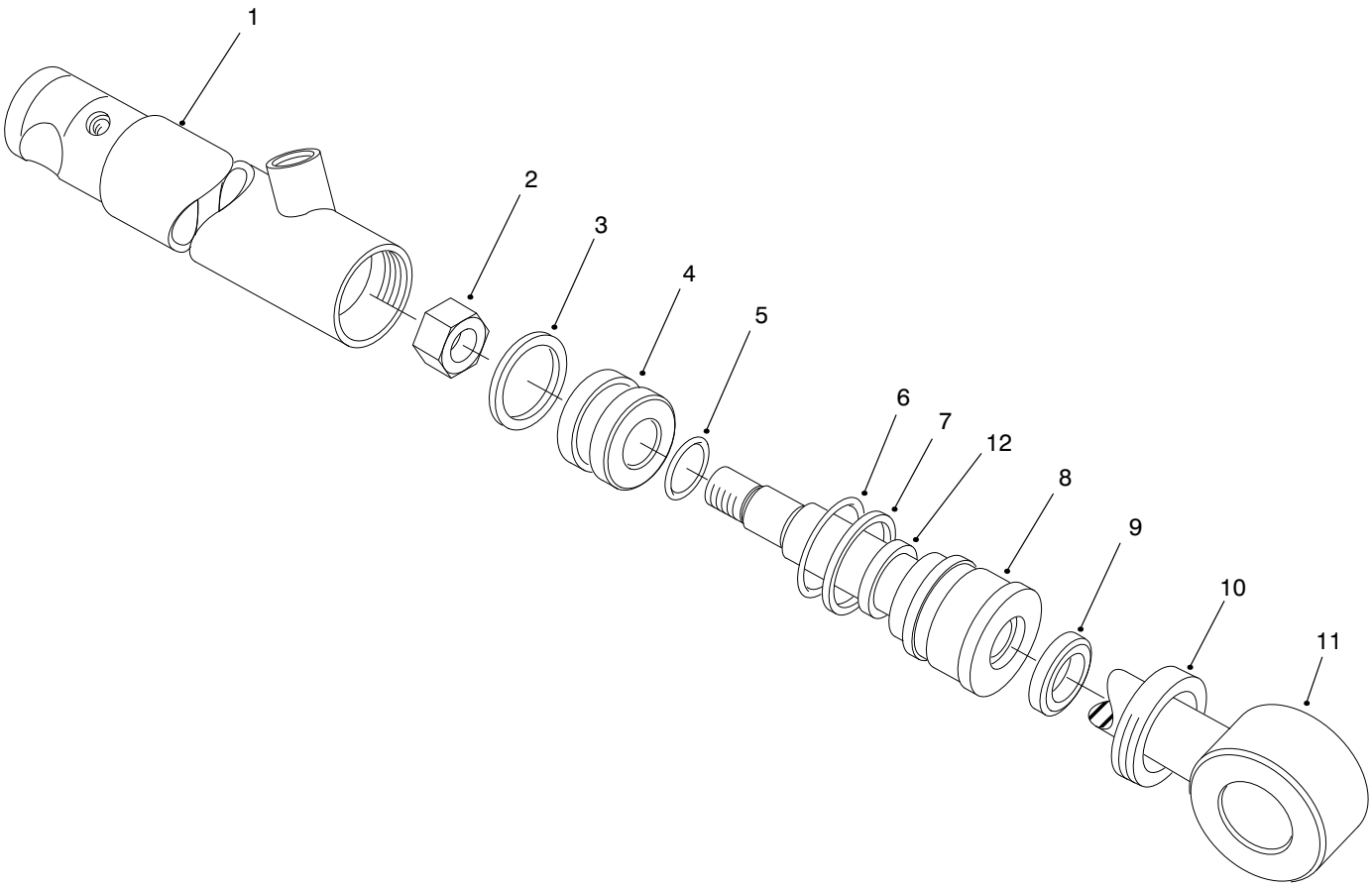
T−0640

HYDRAULIC CYLINDER NO. 83−7230
(Serial No. 90001 thru 90128)

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		O−Ring	1
6		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	Kit−Repair (Incl. Ref. #3, 5−7 & 9)	1

*Not Illustrated



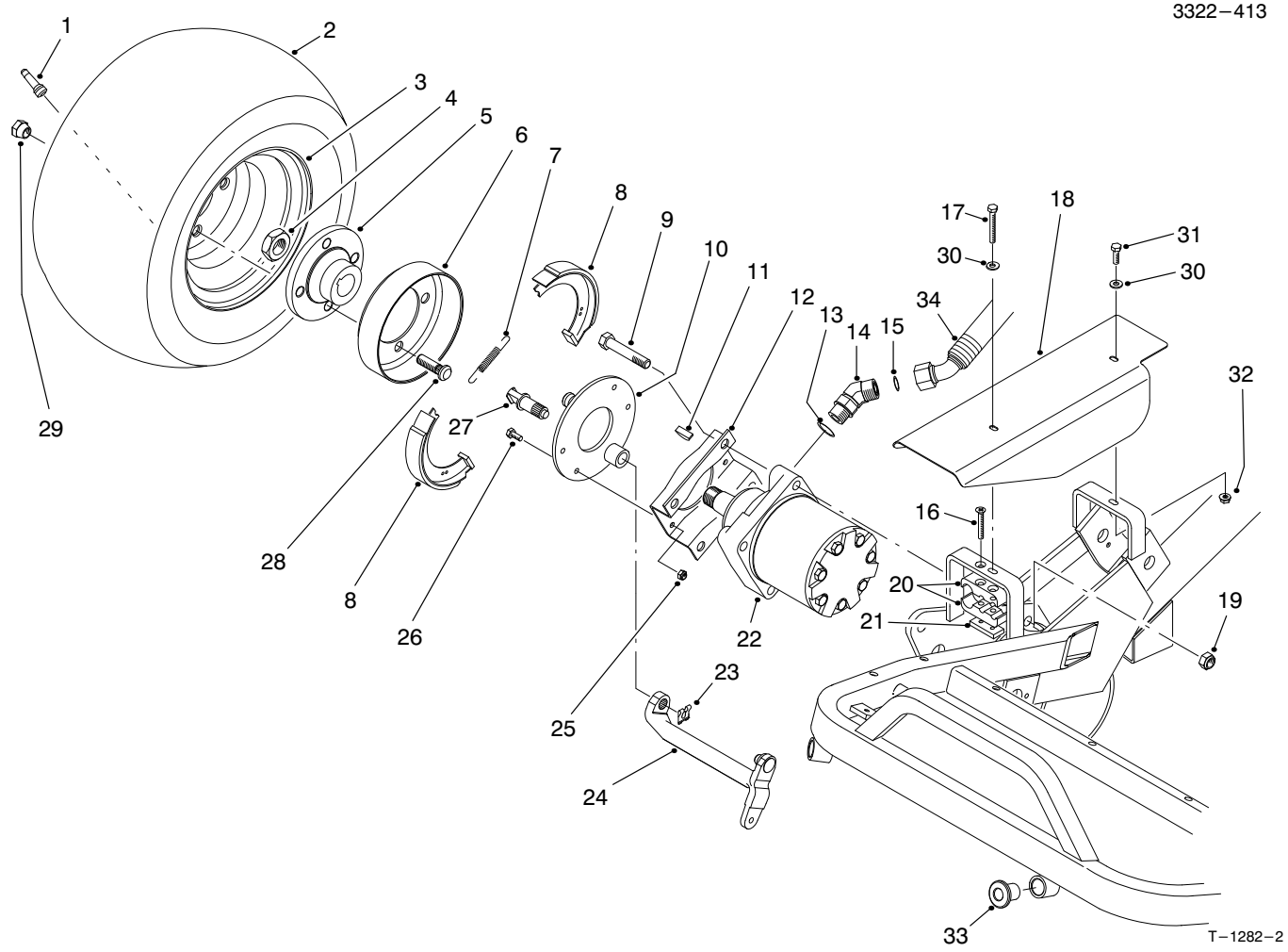
T−3155−1

HYDRAULIC CYLINDER NO. 99−8160
(Serial No. 90129 & Up)

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

Ref. No.	Part No.	Description	No. Used
8		Head	1
9		Seal − Dust	1
10		Collar − Internal	1
11		Shaft & Clevis	1
12		Seal−Rod	1
*	99−8162	Kit−Repair (Incl. Ref. #3, 5−7, 9 & 12)	1

*Not Illustrated

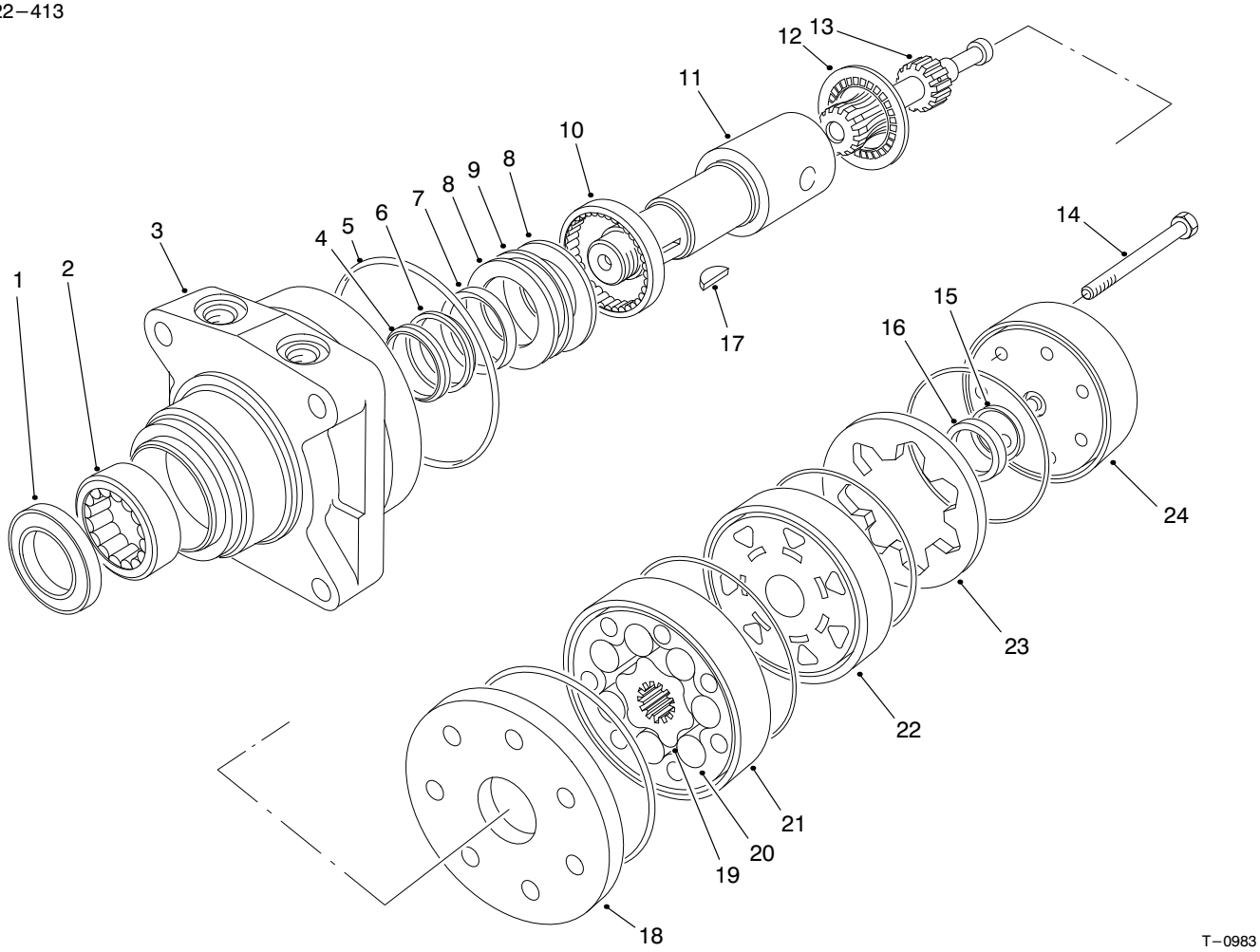


FRONT WHEEL & BRAKE ASSEMBLY

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 − HH	8
10	70−9870	Plate − Backing	2
11	3257−42	Key − Woodruff	2
12	84−2000	Bracket − Brake	2
13	237−80	O−Ring	4
14	340−14	Fitting − Hydraulic 45˚ (Incl. Ref. #13 & 15)	4
15	237−65	O−Ring	4
16	32108−100	Screw − Flat Hd.	1
17	321−11	Screw − HH	1
18	83−0190	Cover − RH	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 − HH	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 − HH	1
32	32128−33	Nut − Lock	1
33	83−1700	Bushing − Flange	2
34	98−0647	Hose − Hydraulic (Top)	1
*	98−0646	Hose − Hydraulic (Bottom)	1
*	10−6821	Asm−Brake Drum (Incl. Ref. #5, 6 & 28)	2
*	71−1500	Asm−Brake (Incl. Ref. #7, 8, 10, 23 & 27)	2

*Not Illustrated

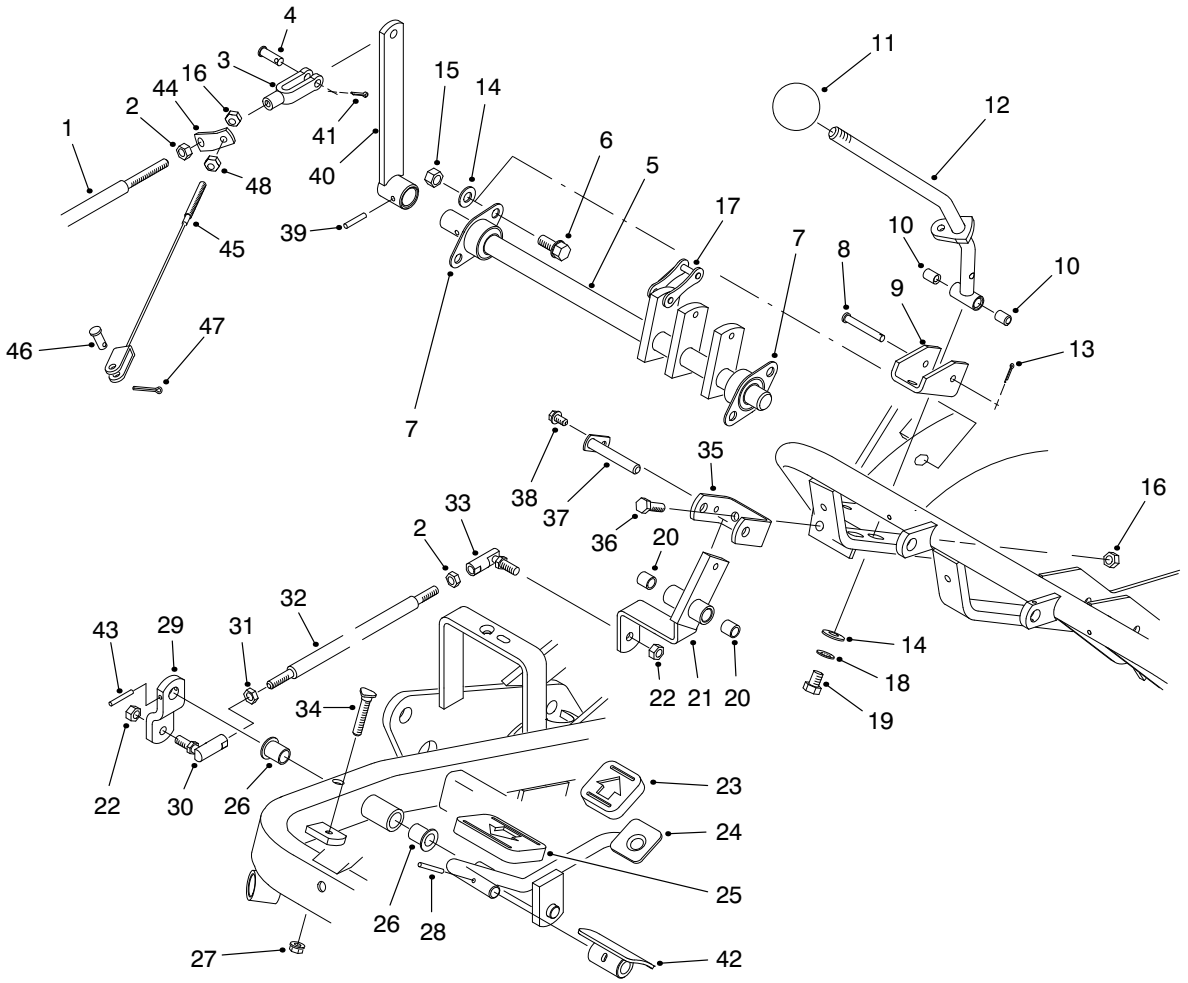


HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 92−9199

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

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

*Not Illustrated

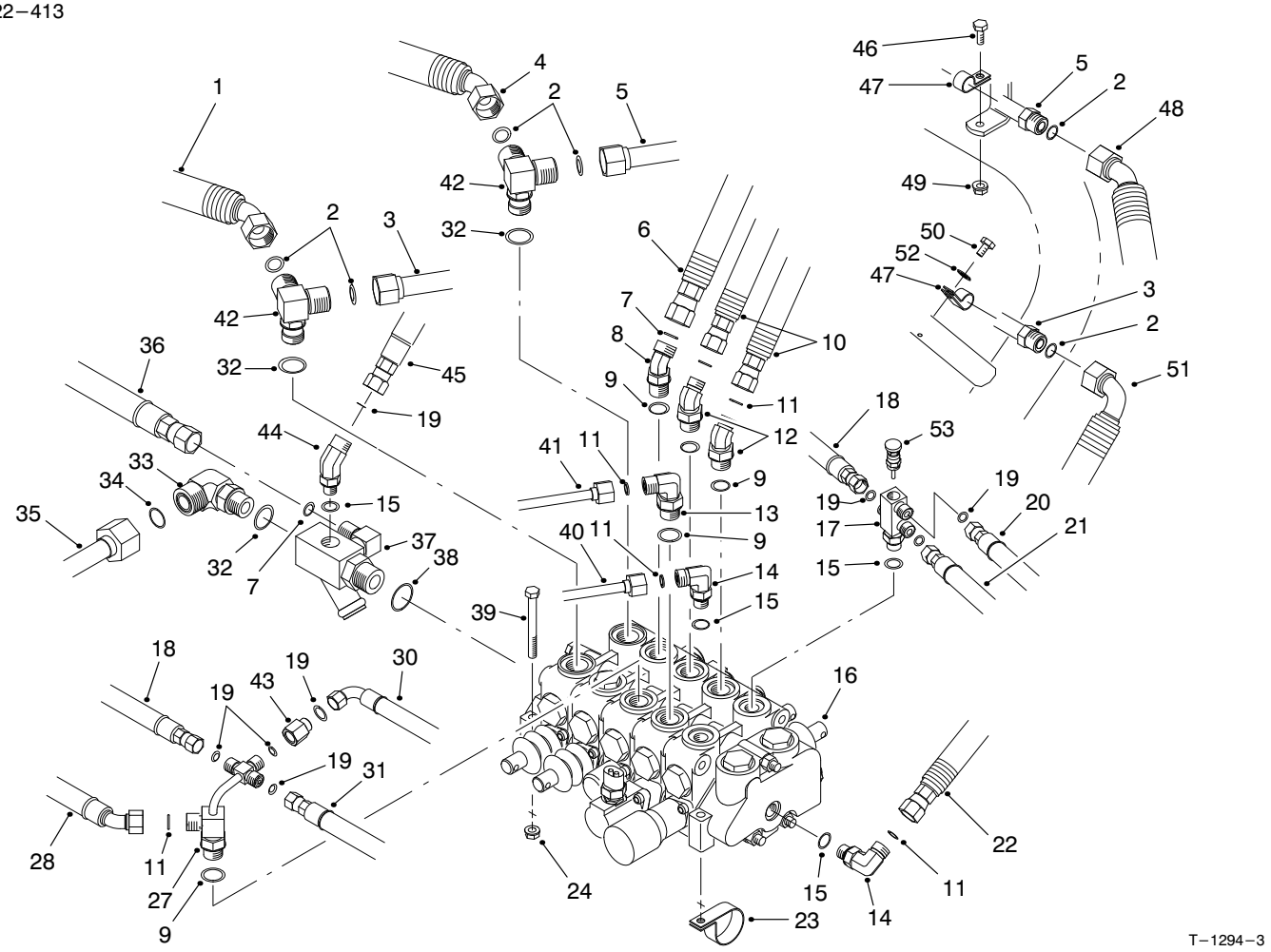


T−1287

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 − HHF	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	Asm−Traction Handle (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 − HH	2
20	256−2	Bushing − Sleeve	2
21	49−6260	Asm−Pivot, Traction (Incl. Ref. #20)	1
22	3296−4	Nut − Lock	2
23	74−9110	Pad − Reverse Pedal	1

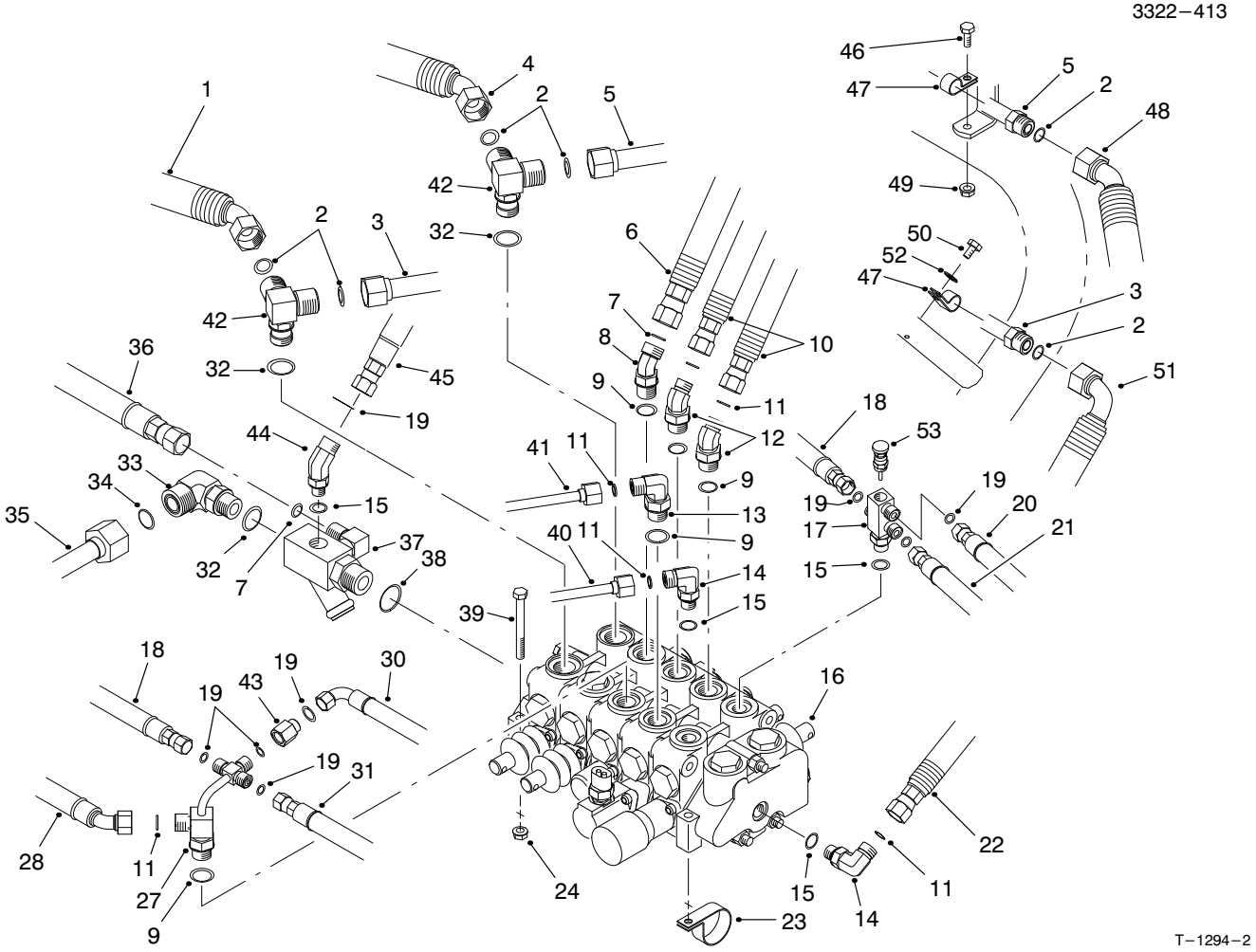
Ref. No.	Part No.	Description	No. Used
24	83−0540	Pedal − Traction	1
25	74−9100	Pad − Forward Pedal	1
26	256−155	Bushing − Flange	2
27	32128−20	Nut − Flange Lock	1
28	32121−45	Pin − Roll	1
29	83−0630	Arm − Traction Pivot	1
30	2411−42	Joint − Ball LH Thread	1
31	3220−20	Nut − Jam LH Thread	1
32	83−0580	Rod − Traction Control	1
33	2411−43	Joint − Ball RH Thread	1
34	17−9420	Screw − Traction Stop	1
35	49−6250	Bracket − Traction Pivot	1
36	322−5	Screw − HH	2
37	49−6290	Shaft − Traction Pivot	1
38	12−3270	Screw − HWH	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



CONTROL VALVE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	98−0647	Hose − Hydraulic	1
2	237−65	O−Ring	6
3	70−7130	Asm−Tube (Incl. Ref. #2)	1
4	98−0646	Hose − Hydraulic	1
5	83−1200	Asm−Tube (Incl. Ref. #2)	1
6	98−2151	Hose − Hydraulic	1
7	237−30	O−Ring	2
8	340−101	Fitting − Hydraulic 45° (Incl. Ref. #7 & 9)	1
9	237−79	O−Ring	4
10	98−0649	Hose − Hydraulic	2
11	237−22	O−Ring	6
12	340−138	Fitting − Hydraulic 45° (Incl. Ref. #9 & 11)	2
13	340−18	Fitting − Hydraulic 90° (Incl. Ref. #9 & 11)	1
14	340−77	Fitting − Hydraulic 90° (Incl. Ref. #11 & 15)	2
15	237−42	O−Ring	4
16	84−2203	Asm−Control Valve	1
17	93−2555	Fitting − Valve Body (Incl. Ref. #15 & 19)	1
18	92−9767	Hose − Hydraulic	2
19	237−21	O−Ring	6
20	88−9700	Hose − Hydraulic	1

Ref. No.	Part No.	Description	No. Used
21	83−1690	Hose − Hydraulic	1
22	98−2150	Hose − Hydraulic	1
23	304−61	Clamp − R	1
24	32128−20	Nut − Flange Lock	3
27	83−1670	Fitting − Special (Incl. Ref. #9, 11 & 19)	1
28	74−3830	Hose − Hydraulic	1
30	83−1680	Hose − Hydraulic	1
31	63−3850	Hose − Hydraulic	1
32	237−80	O−Ring	3
33	340−16	Fitting − Hydraulic 90° (Incl. Ref. #32 & 34)	1
34	237−58	O−Ring	1
35	63−4040	Tube − Hydraulic	1
36	63−3840	Hose − Hydraulic	1
37	68−5260	Fitting − Manifold Tee (Incl. Ref. #7 & 38)	1
38	237−81	O−Ring	1
39	322−14	Screw − HH	3
40	63−4020	Tube − Hydraulic	1
41	63−4030	Tube − Hydraulic	1
42	63−4050	Fitting − Tee (Incl. Ref. #2 & 32)	2
43	71−0990	Orifice (Incl. Ref. #19)	1
44	340−137	Fitting − Hydraulic 45° (Incl. Ref. #15 & 19)	1
45	83−1350	Hose − Hydraulic	1

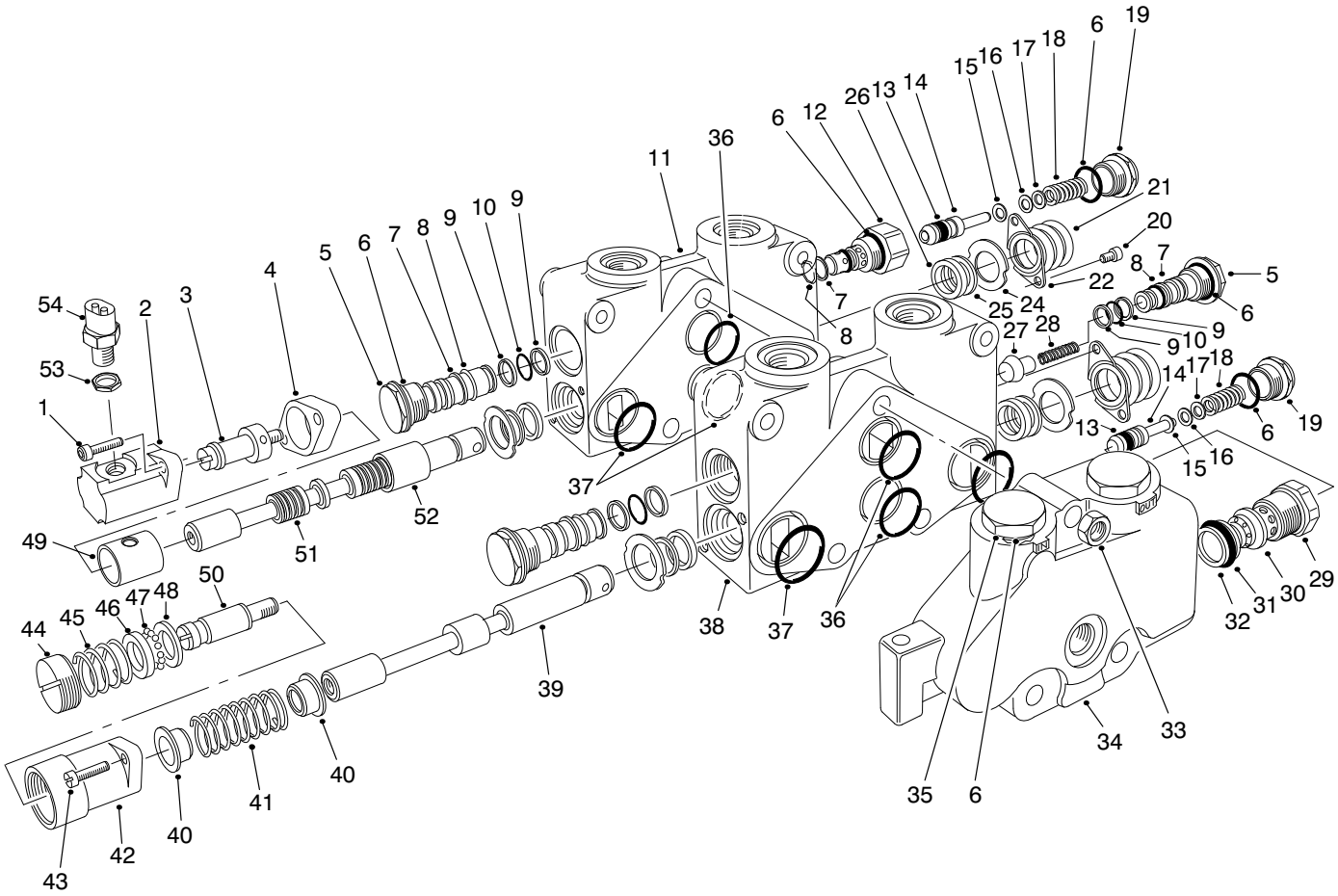


CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
46	3234−4	Screw − HH	1
47	2412−41	Clamp−R	2
48	98−0648	Hose − Hydraulic	1
49	3296−16	Nut − Lock	1
50	12−3270	Screw − Thread Forming	1

Ref. No.	Part No.	Description	No. Used
51	98−2153	Hose − Hydraulic	1
52	3256−22	Washer − Flat	1
53	93−2554	Valve − Needle	1
*	93−2556	Asm−Needle Valve (Incl. Ref. #15, 17, 19 & 53)	1

*Not Illustrated



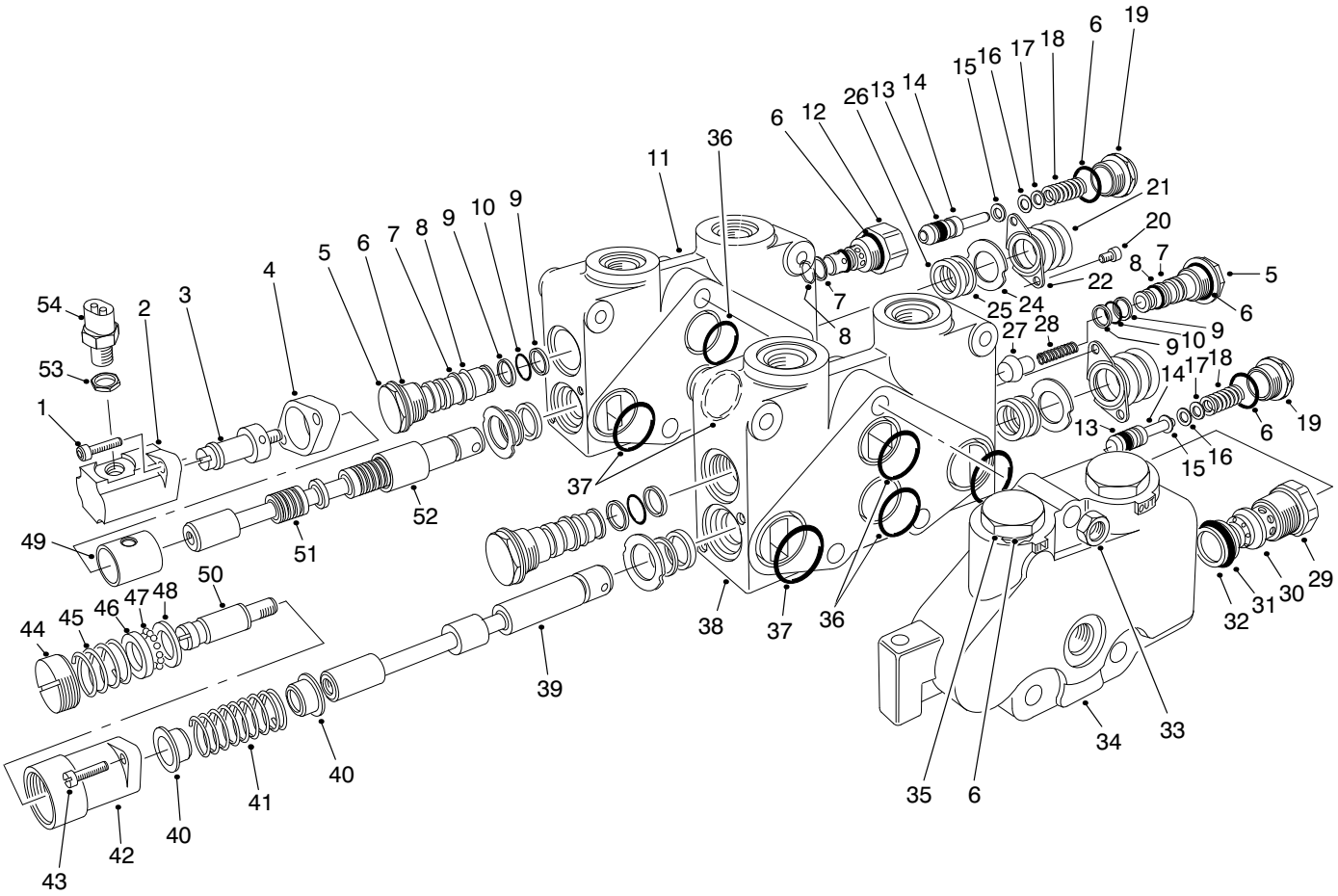
T−1318

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

Ref. No.	Part No.	Description	No. Used
1	3274−70	Screw − HSH	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	Asm−Poppet (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 − HSH	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	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	99−6850	Spring − Centering	1
42	99−8181	Bonnet − R. Detent	1
43	3274−15	Screw − Fillister Hd.	2
44	353−763	Cap − Adjustment	1
45	99−1475	Spring − Detent	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−1318

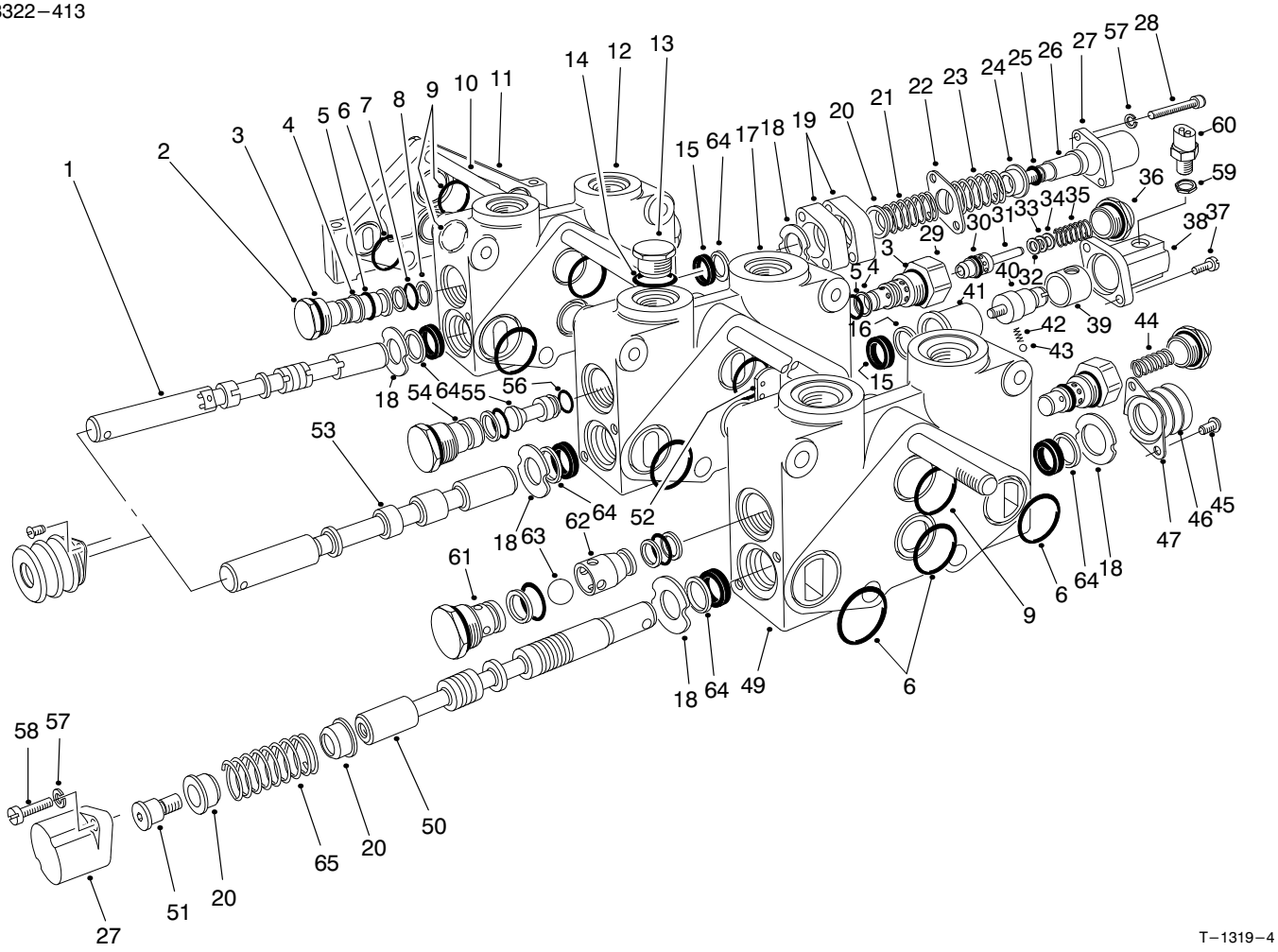
CONTROL VALVE ASSEMBLY NO. 84−2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
49	353−728	Sleeve	1
50	353−762	Spud − Detent Out	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	Asm−Relief WH (2000) PSI (Incl. Ref. #6,13−19 & 29−32)	1
*	99−8182	Section #1 Complete	1
*	353−837	Section #2 Complete	1
*	99−8180	Positioner − R. Detent (Out) (Incl. Ref. #40−49)	1

Ref. No.	Part No.	Description	No. Used
*	353−839	Asm−Positioner, DI (SPL) (Incl. Ref. #1−4 & 50)	1
*	353−642	Relief − RC Mod. (Incl. Ref. #6−8 & 12−19)	2
*	93−3652	Asm−Boot, Spool (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



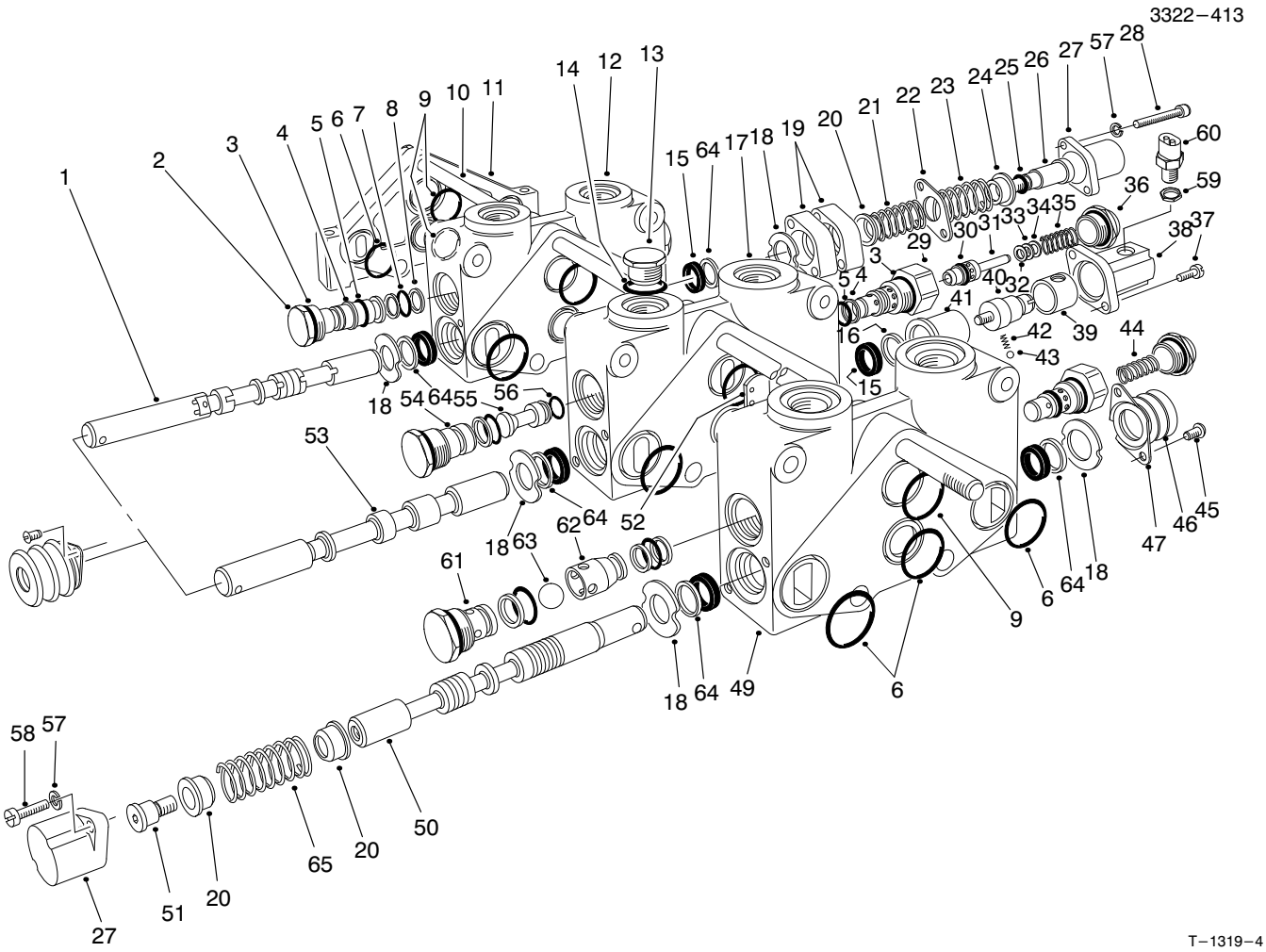
T−1319−4

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 − HH	3
11	353−668	Plate − Cap, Cover RH	1
12		Housing V20 #5	1
13	353−550	Asm−Plug (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	3
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	99−6895	Bonnet	2
28	354−28	Screw − HSH	2
29	353−851	Body − Relief CP−RC Mod.	2
30	353−392	Seal − Relief Poppet PTFE	2
31	353−531	Asm−Poppet (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 − HSH	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



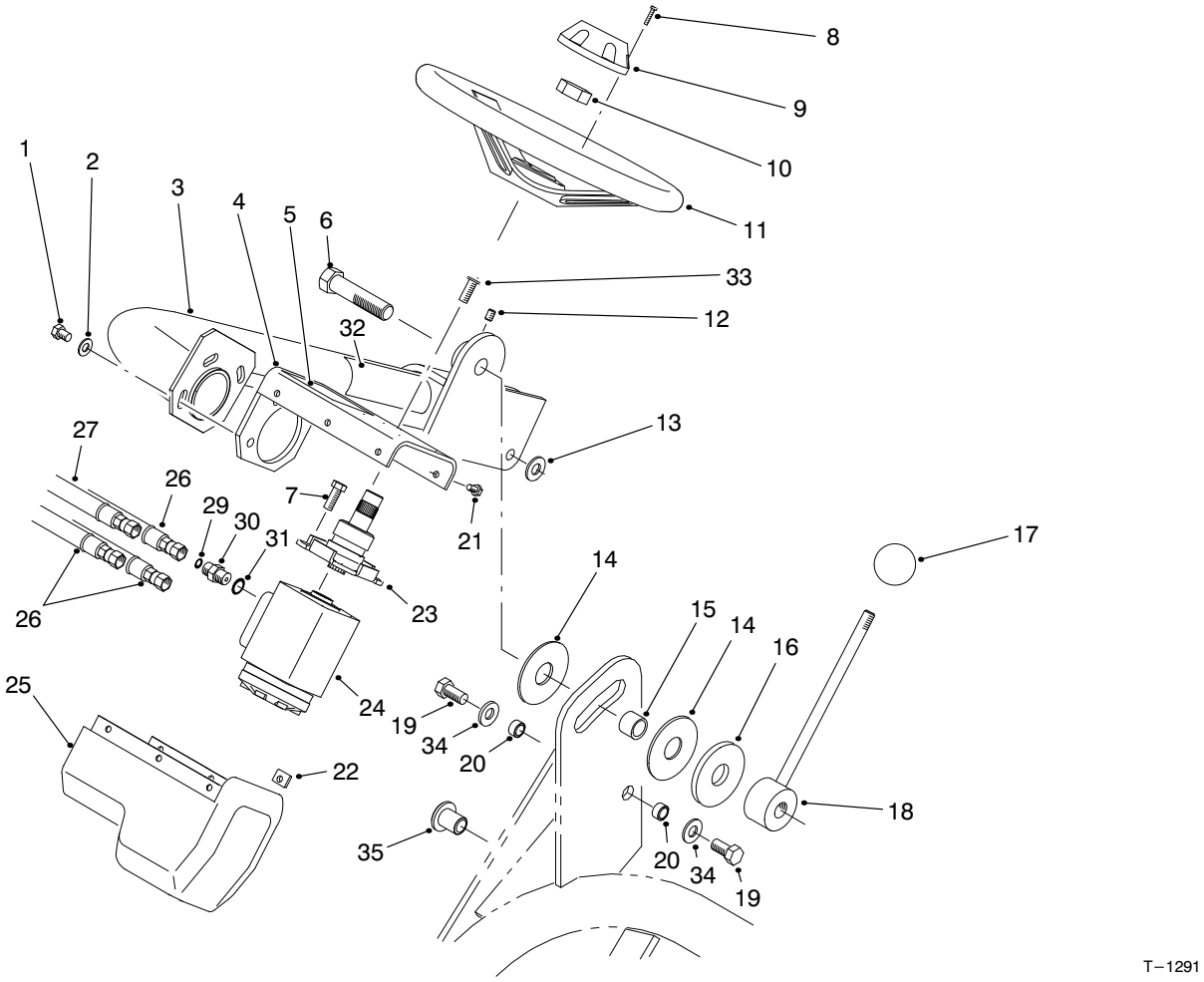
CONTROL VALVE ASSEMBLY NO. 84−2203
(Sections 3 Thru 5) (Continued)

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 − HH	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
65	99−6850	Spring − Centering	1
*	354−129	Asm−Anticavitation Check (Incl. Ref. #3, 4, 5, 7, 8 & 61−63)	1
*	353−835	Seals − Section Set (Incl. Ref. #6 & 9)	1
*	93−3652	Asm−Boot, Spool (Incl. Ref. #45−47)	3

Ref. No.	Part No.	Description	No. Used
*	99−8183	Asm − Section #3 (Complete)	1
*	354−25	Asm − Section #4 (Complete)	1
*	93−1386	Asm − Section #5 (Complete)	1
*	353−841	Asm − Position, Spool (Incl. Ref. #20 27 37 & 51)	1
*	353−840	Asm − Position, DI (SP) (Incl. Ref. #37−43)	1
*	353−642	Asm − Relief, RC Mod. (Incl. Ref. #3−5 & 29−36)	1
*	353−833	Asm − Positioner (Incl. Ref. #19−28)	1
*	84−2203	Asm − Control Valve 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

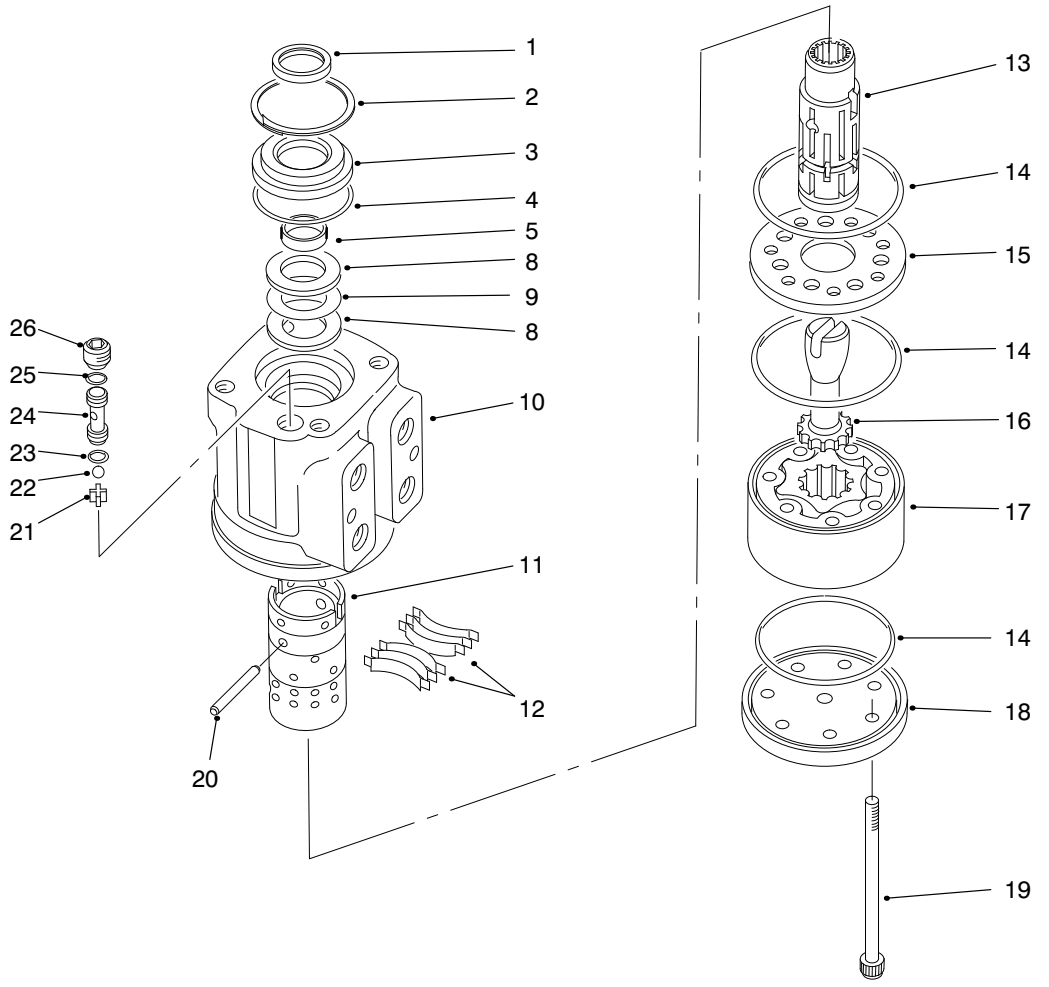
†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



STEERING ARM ASSEMBLY

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

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



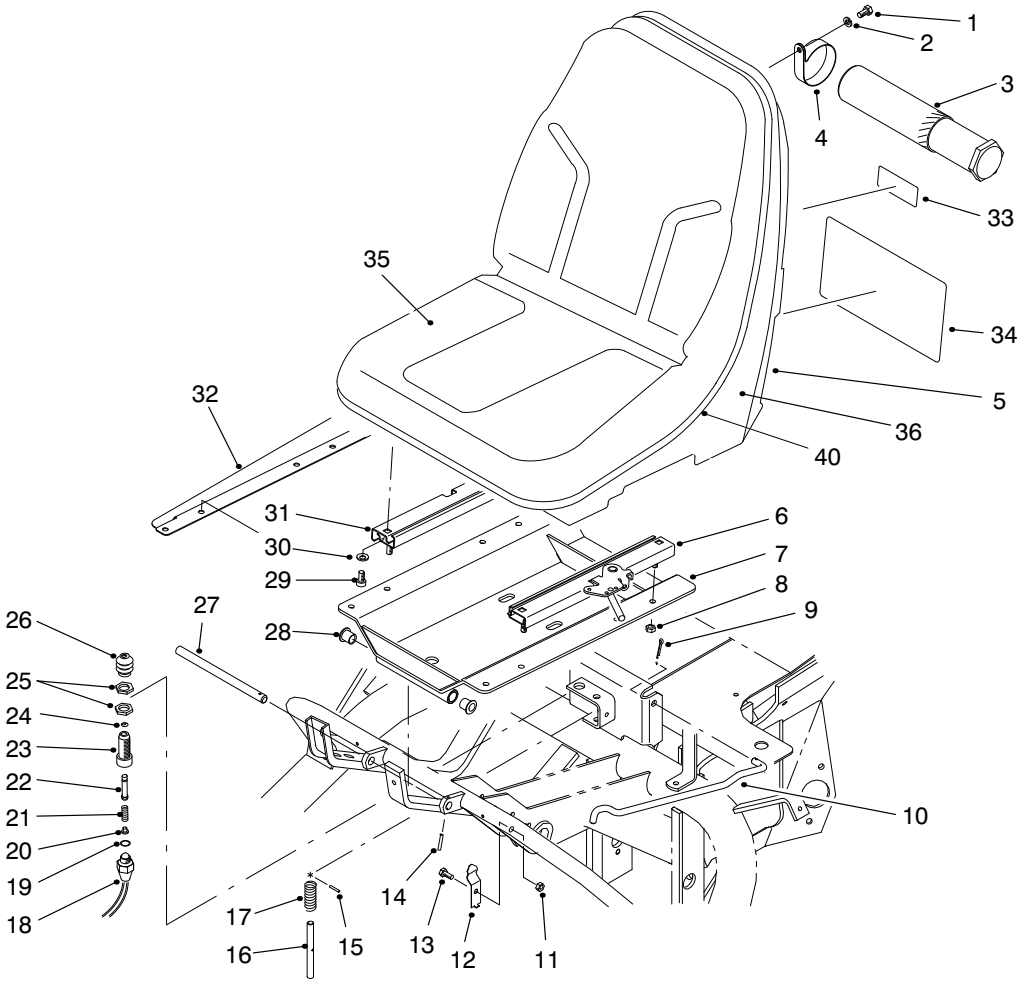
T−1442

POWER STEERING VALVE NO. 92−8690

Ref. No.	Part No.	Description	No. Used
†1		Seal − Dust	1
2	52−9230	Ring − Retaining	1
3	92−8691	Bushing − Seal Gland	1
†4		O−Ring	1
†5		Seal − One Piece	1
8	59−6730	Race − Bearing	2
9	59−6740	Bearing − Needle Thrust	1
†10		Housing	1
†11		Sleeve − Control	1
12	83−1860	Kit−Centering, Spring	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	Asm−Control Parts (Incl. Ref. #10−13 & 20)	1
*	92−8695	Kit−Seal (Incl. Ref. #1, 4, 5, 14, 23 & 25)	1

*Not Illustrated
†Not Serviced Separately



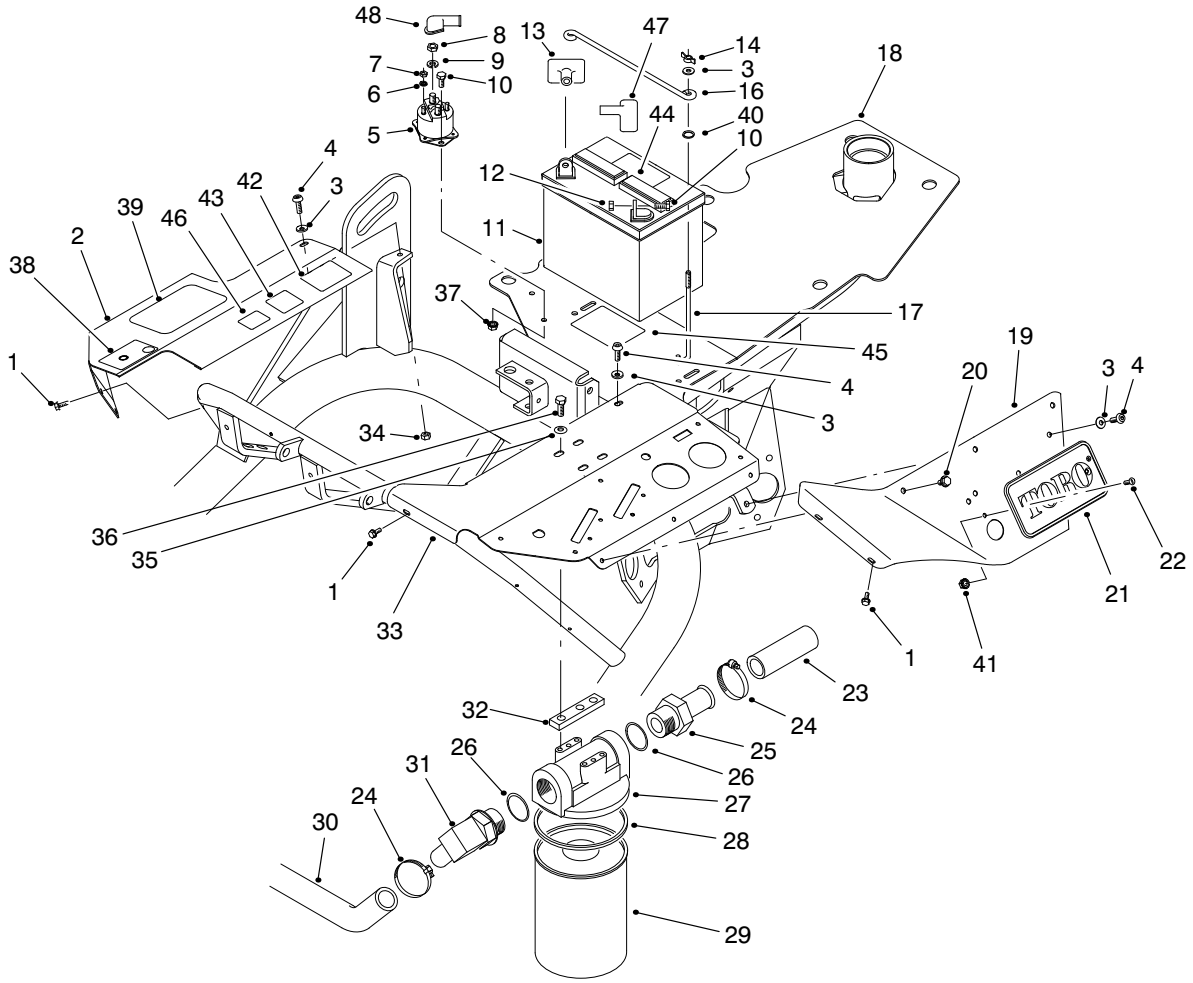
T−1290A

SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322−2	Screw − HH	2
2	3253−4	Washer − Lock	2
3	74−0720	Tube − Manual	1
4	2412−133	Clamp − R	2
5	92−1180	Asm−Seat (Incl. Ref. #35, 36 & 40)	1
6	51−0790	Adjuster − Seat	1
7	83−1270	Asm−Seat Support (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 − HH	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	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	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 − HSH	4
30	3256−23	Washer − Flat	4
31	51−0780	Slider − Seat	1
32	83−1840	Cover − RH	1
33	93−8067	Decal − Oil	1
33	84−3180	Decal − Oil (Japanese)	1
34	94−8036	Decal − Service	1
34	84−9240	Decal − Service (Spanish)	1
34	84−9250	Decal − Service (French)	1
34	84−9260	Decal − Service (German)	1
34	84−9270	Decal − Service (Swedish)	1
34	84−9280	Decal − Service (Italian)	1
34	93−7257	Decal − Service (Portuguese)	1
34	93−7258	Decal − Service (Norwegian)	1
34	93−7259	Decal − Service (Finnish)	1
34	93−7260	Decal − Service (Danish)	1
34	93−7261	Decal − Service (Dutch)	1
34	83−2490	Decal − Service (Japanese)	1
35	92−6533	Kit − Cushion	1
36	92−6534	Shell	1
40	351−78	Edging	1
*	43−9071	Asm−Seat Switch (Incl. Ref. #18−26)	1

*Not Illustrated

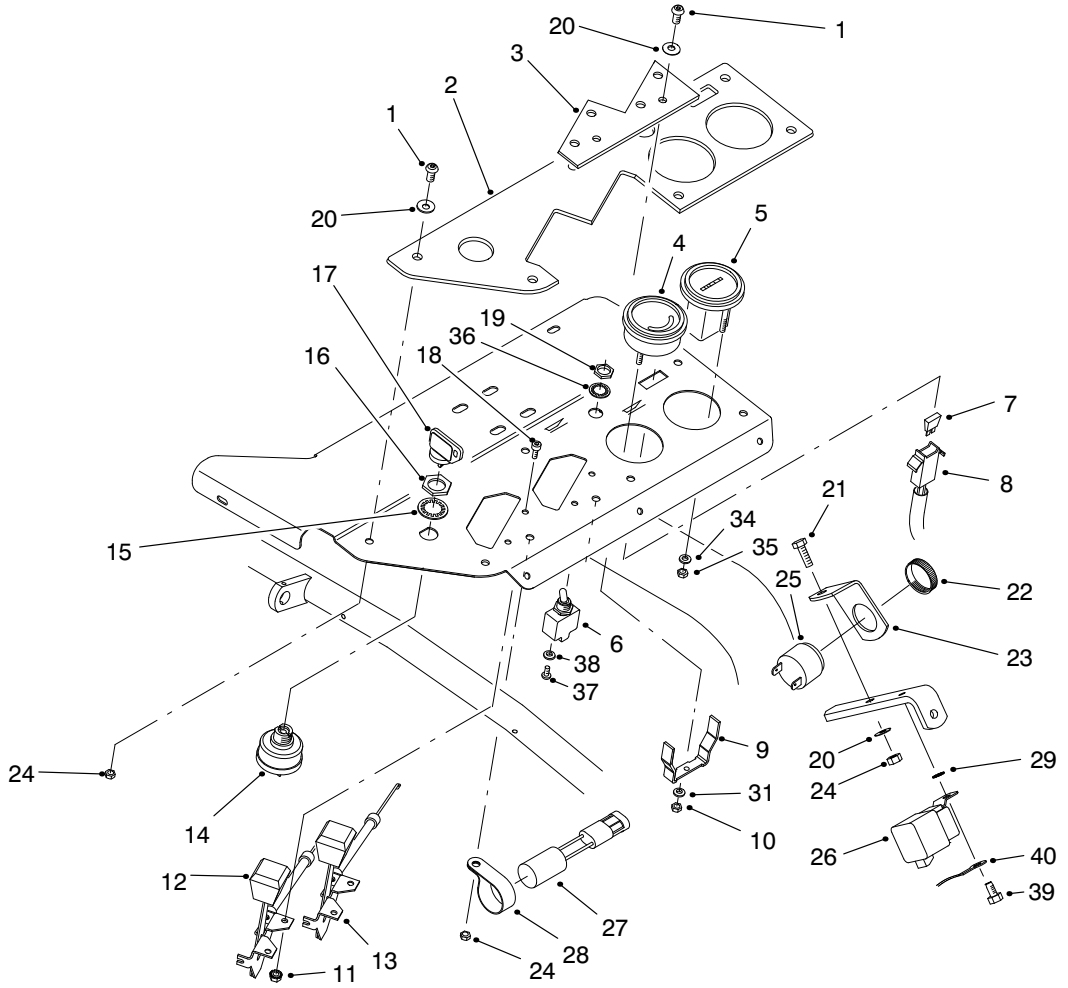


T−1295B

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104−76	Screw − TAP	5
2	94−2694	Cover − RH	1
3	3256−22	Washer − Flat	5
4	3274−69	Screw − HSH	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 − HH	4
11	28−1400	Battery	1
12	3217−5	Nut − Hex.	2
13	28−8080	Boot Terminal (Red)	1
14	32103−12	Nut − Wing	2
16	72−4790	Hold−Down − Battery	1
17	56−7720	Bolt − Battery	2
18	92−9164	Asm−Frame	1
19	83−0840	Fender − LH	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
26	237−101	O−Ring	2

Ref. No.	Part No.	Description	No. Used
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 − HH	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
47	98−0603	Boot Terminal (Black)	1
48	83−2430	Boot − Terminal	1

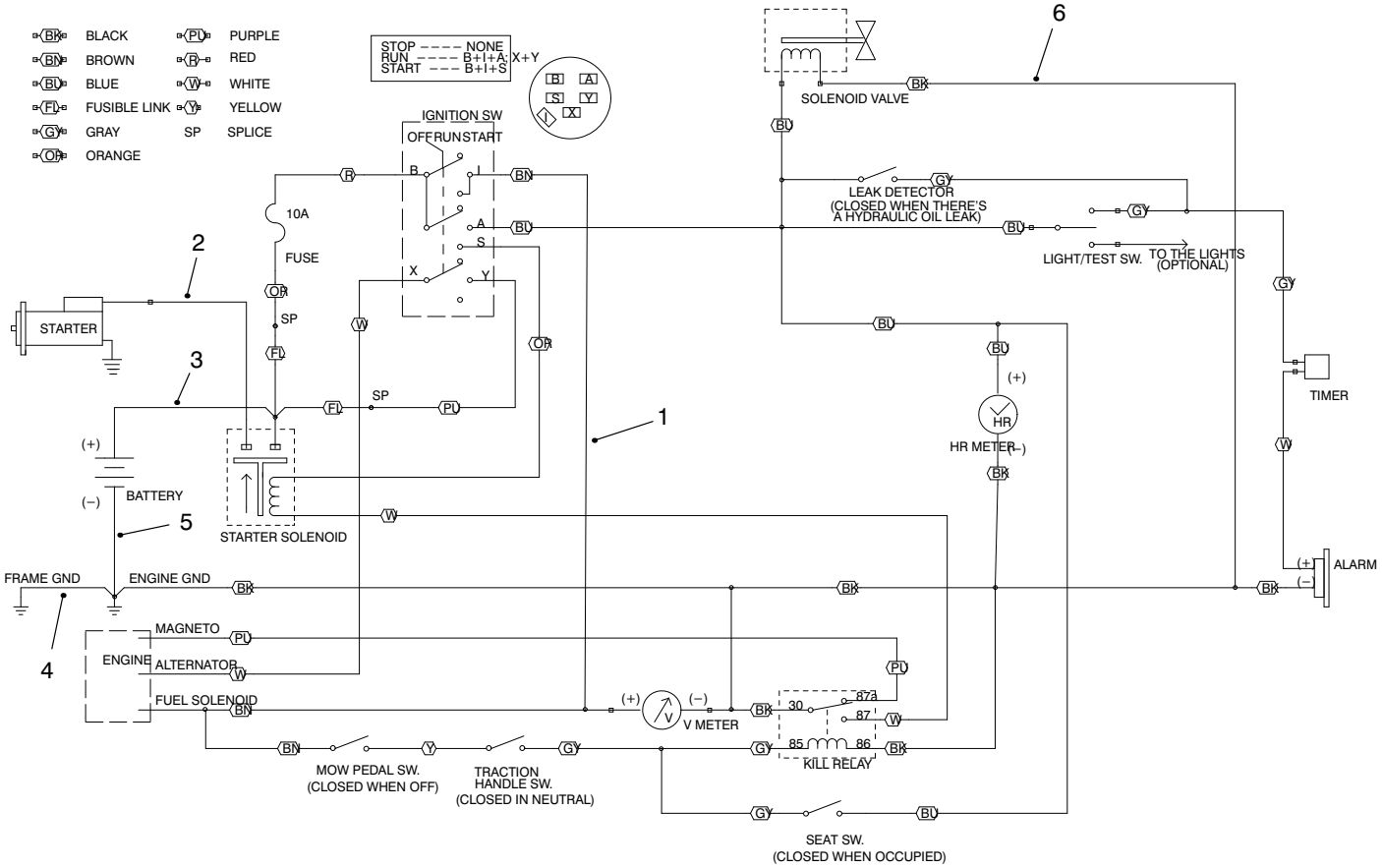


T−1296−7

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274−69	Screw − HSH	8
2	93−8061	Plate − Control	1
2	83−2570	Plate − Control (Japanese)	1
3	83−2030	Plate − Filler	1
4	98−2160	Gauge − Voltmeter (Incl. Ref. #9−10 & 31)	1
5	66−2950	Gauge − Hourmeter (Incl. Ref. #34 & 35)	1
6	83−1660	Asm−Switch (Incl. Ref. #19 & 36−38)	1
7	218−578	Fuse − 10 Amp	1
8	98−2163	Harness − Wire (Main)	1
9	78−0080	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	88−9830	Asm−Ignition Switch (Incl. Ref. #15−16)	1
15	3254−5	Washer − Lock	2
16	218−461	Nut − Hex.	2
17	63−8360	Key − Ignition	1

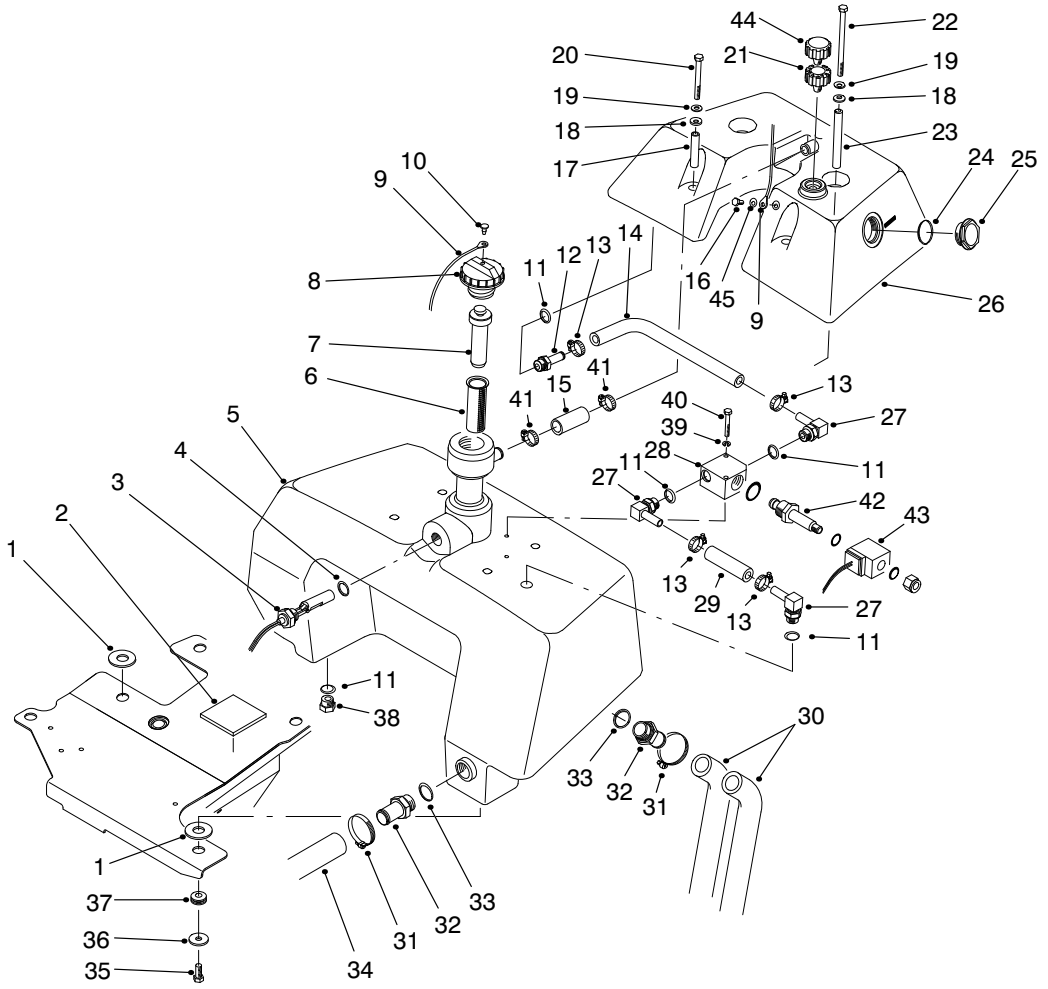
Ref. No.	Part No.	Description	No. Used
18	3273−26	Screw − HSH	4
19	218−498	Nut − Hex.	2
20	3256−1	Washer − Flat	9
21	321−5	Screw − HH	1
22		Retainer − Alarm	1
23	83−1530	Bracket − Alarm	1
24	3296−16	Nut − Lock	9
25	98−2159	Asm−Audio Alarm (Incl. Ref. #22)	1
26	70−1480	Relay	1
27	83−2280	Timer − Relay	1
28	2412−39	Clamp − R	1
29	3255−7	Washer − Lock, Int. Tooth	1
31	3255−25	Washer − Lock, Int. Tooth	2
34	3255−20	Washer − Lock, Ext. Tooth	2
35	3217−25	Nut − Hex.	2
36	218−589	Washer − Lock	1
37	218−588	Screw	3
38	3253−19	Washer − Lock	3
39	32104−95	Screw − HH	1
40	98−2165	Cable − Negative	1



T−2804−3

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	98−2163	Harness − Wire (Main)	1
2	98−2161	Wire Assembly	1
3	83−2420	Cable − Positive	1
4	83−1150	Wire − Engine Ground	1
5	98−2165	Cable − Negative	1
6	98−2162	Harness − Leak Detector	1

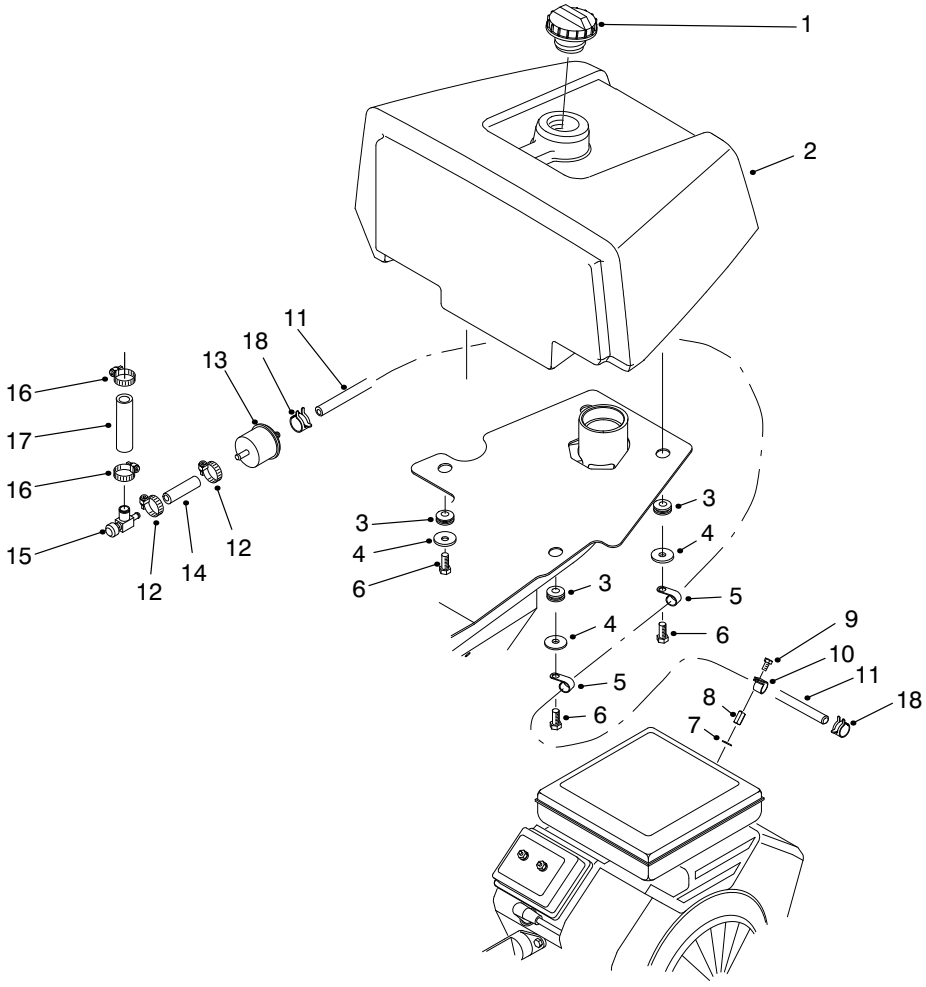


T−1289

HYDRAULIC RESERVOIR ASSEMBLY

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

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



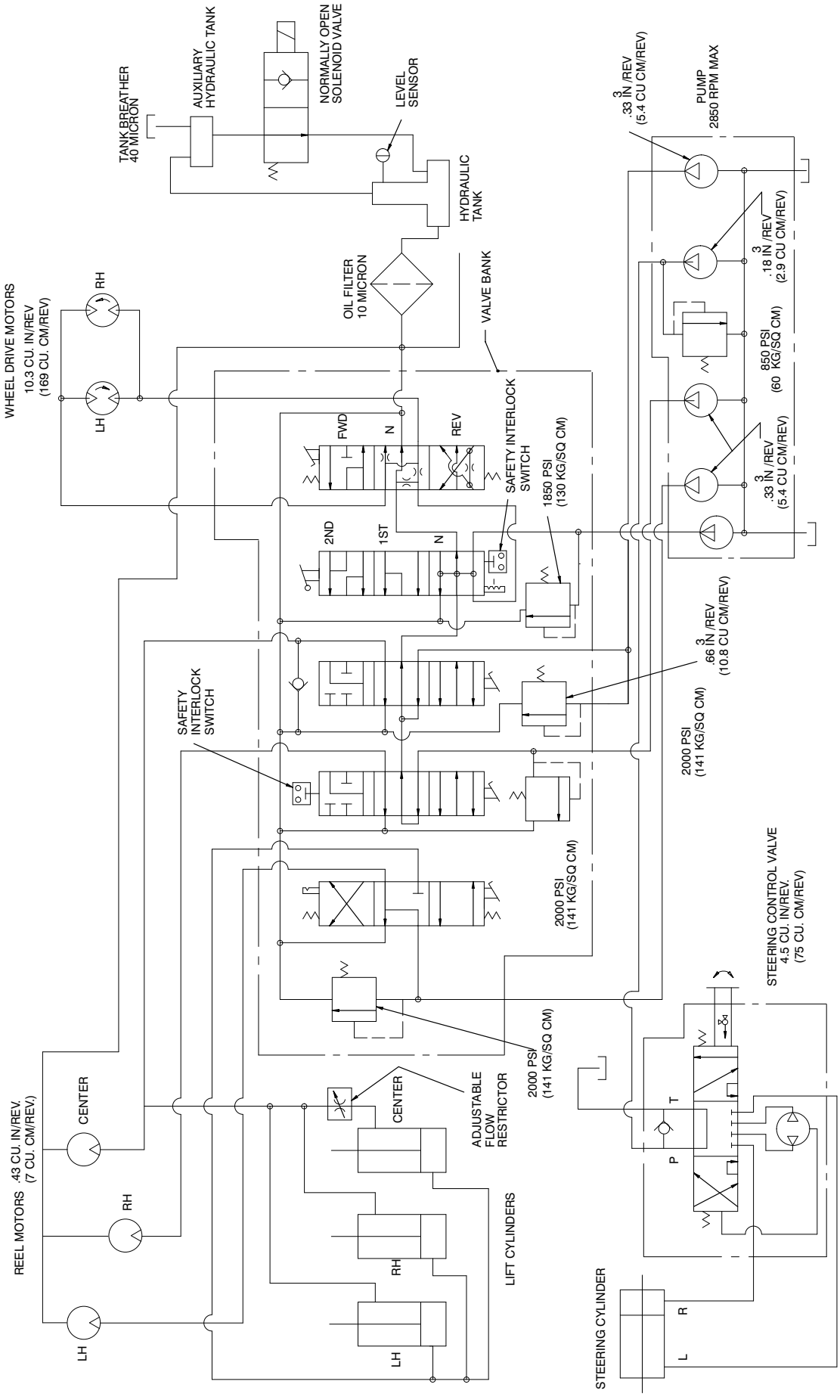
T−1317−3

FUEL TANK ASSEMBLY

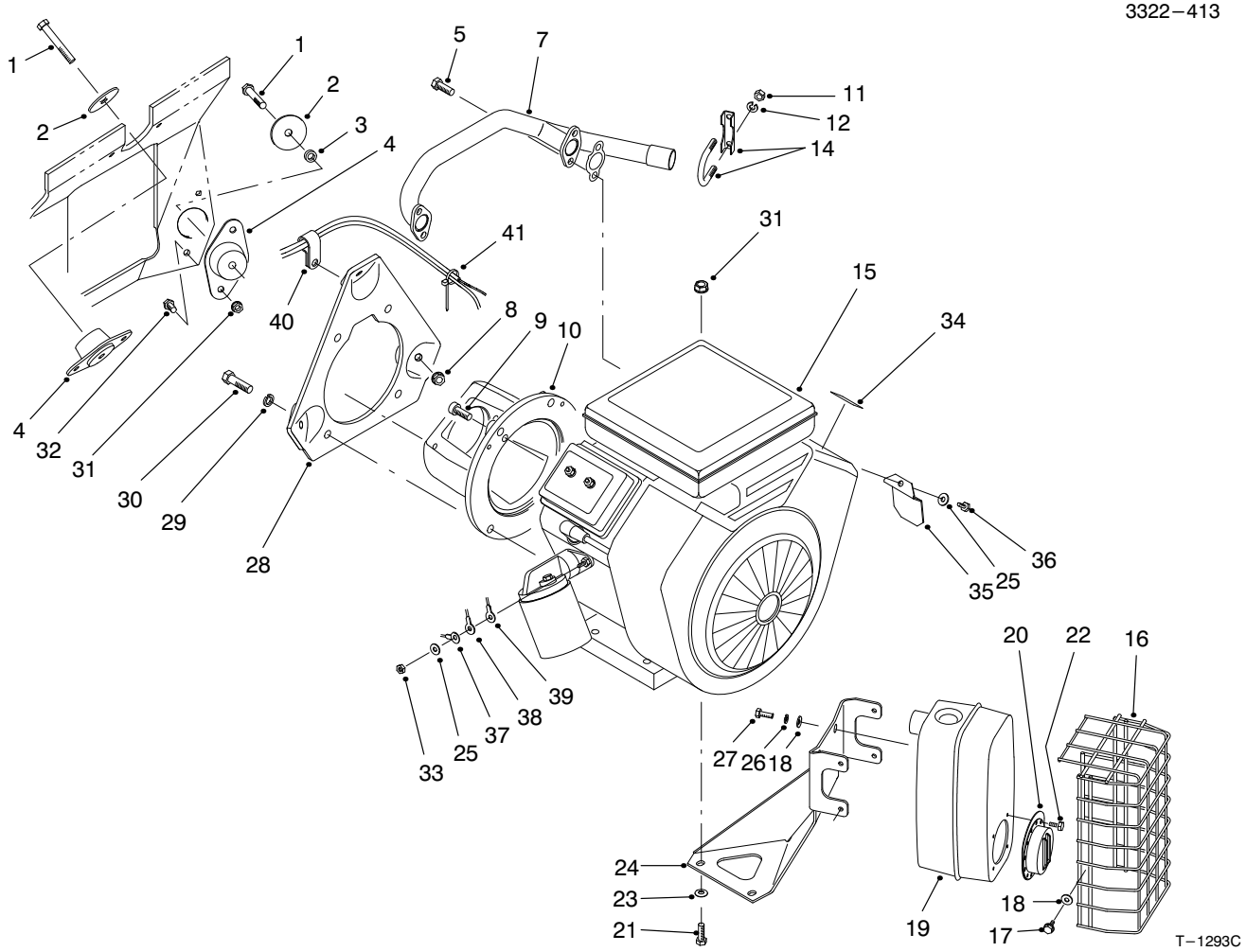
Ref. No.	Part No.	Description	No. Used
1	93−7170	Cap − Fuel	1
2	92−7189	Tank − Fuel	1
3	240−11	Grommet	4
4	63−8410	Washer − Flat	4
5	2412−41	Clamp − R	3
6	323−6	Screw − HH	3
7	3256−63	Washer − Flat	1
8	83−2200	Nut − Special	1
9	33113−012	Screw − HH	1

Ref. No.	Part No.	Description	No. Used
10	2412−94	Clamp − R	1
11	83−2041	Hose − Fuel	1
12	2412−108	Clamp − Hose	2
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
18	2412−98	Clamp − Hose	2

HYDRAULIC SCHEMATIC



T−1302



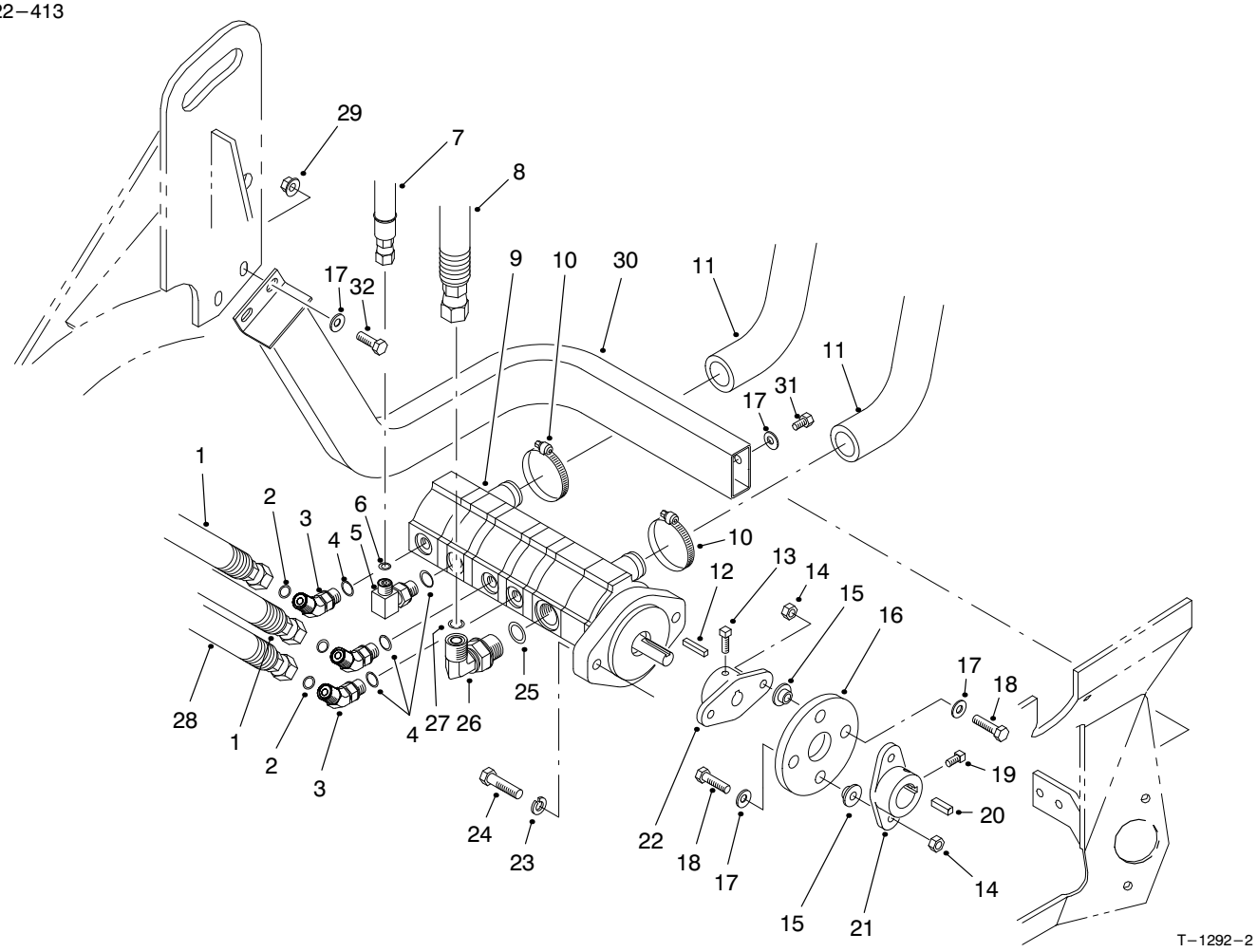
ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323−12	Screw − Cap Hex. Hd.	3
2	83−1040	Washer − Mount	3
3	83−1050	Spacer − Mount	2
4	83−1030	Mount − Engine	3
5		Screw − Cap Hex. Hd.	4
7	83−1080	Pipe − Exhaust	1
8	3290−357	Nut − Flange Lock	3
9	3274−7	Screw − Socket Hd.	2
10	83−1060	Adapter − Pump	1
11		Nut − Hex.	2
12		Washer − Lock	2
14	2112−11	Clamp − Muffler (Incl. Ref. #11 & 12)	1
15	98−0636	Engine Assembly (Incl. Ref. #5)	1
16	83−1400	Shield − Muffler	1
17	12−3270	Screw − Hex. Washer Hd.	4
18	3256−1	Washer − Flat	8
19	98−0616	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	49−2040	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	33113−016	Screw − Cap Hex. Hd.	1
37	98−2163	Harness − Wire (Main)	1
38	83−1150	Wire − Engine Ground	1
39	98−2165	Cable − Negative	1
40	2412−81	Clamp − R	1
41	3290−378	Tie − Cable	1

*Not Illustrated

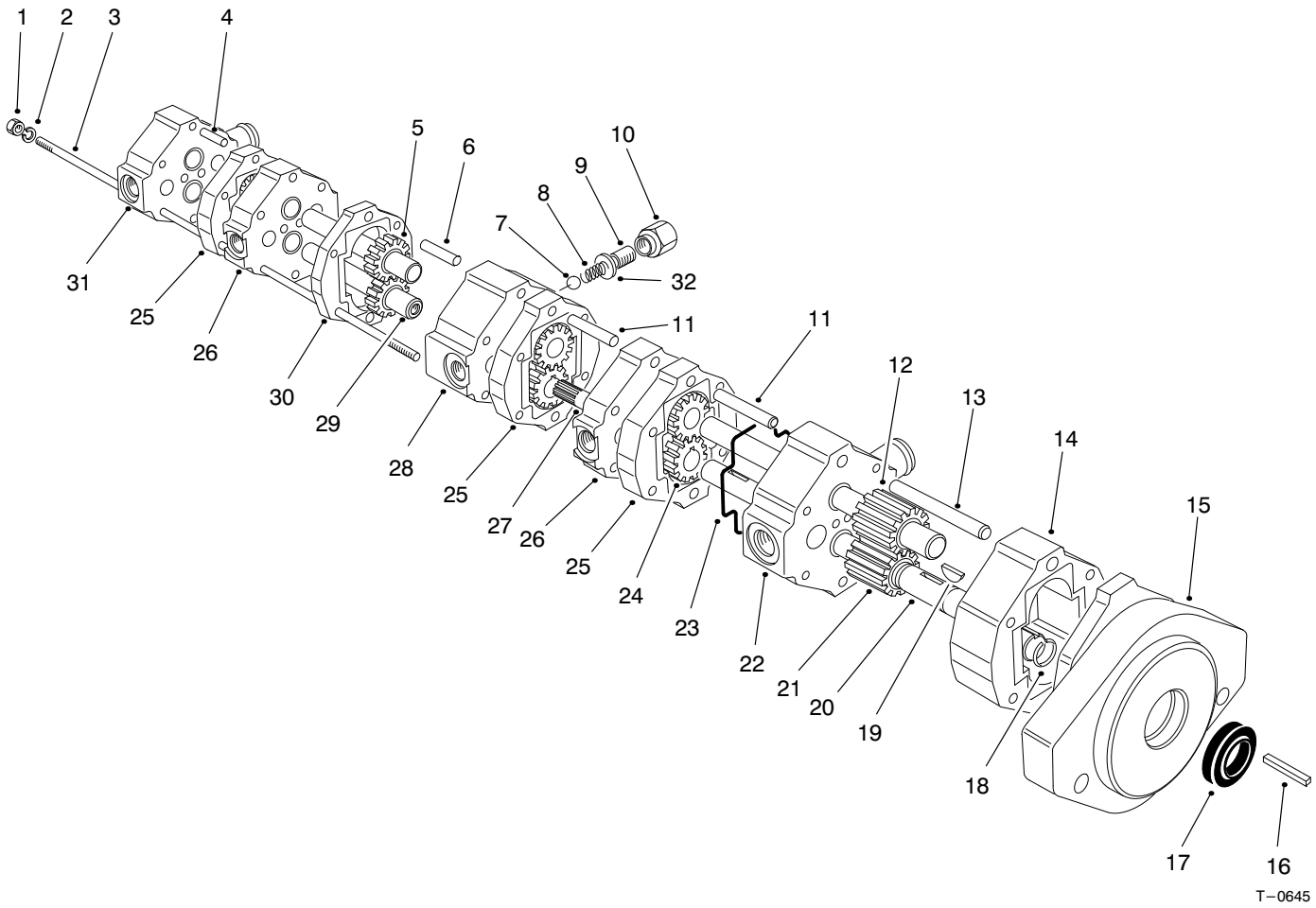
3322−413



HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	98−0649	Hose − Hydraulic	2
2	237−22	O−Ring	3
3	340−87	Fitting − Hydraulic 45˚ (Incl. Ref. #2 & 4)	3
4	237−42	O−Ring	4
5	340−82	Fitting − Hydraulic 90˚ (Incl. Ref. #4 & 6)	1
6	237−21	O−Ring	1
7	83−1350	Hose − Hydraulic	1
8	98−2151	Hose − Hydraulic	1
9	92−9764	Asm−Hydraulic Pump (Incl. Ref. #12)	1
10	2412−34	Clamp − Hose	2
11	83−0910	Hose − Pump	2
12	5−0946	Key − Square	1
13	3241−6	Screw − Set Square Hd.	2
14	3296−29	Nut − Lock	4
15	27−6600	Spacer − Coupling	4

Ref. No.	Part No.	Description	No. Used
16	44−2230	Coupling − Rubber	1
17	3256−23	Washer − Flat	8
18	322−6	Screw − HH	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 − HH	2
25	237−80	O−Ring	1
26	340−105	Fitting − Hydraulic 90˚ (Incl. Ref. #25 & 27)	1
27	237−30	O−Ring	1
28	98−2150	Hose − Hydraulic	1
29	32128−20	Nut − Flange Lock	2
30	83−1940	Guard − Pump	1
31	322−1	Screw − HH	2
32	322−4	Screw − HH	2

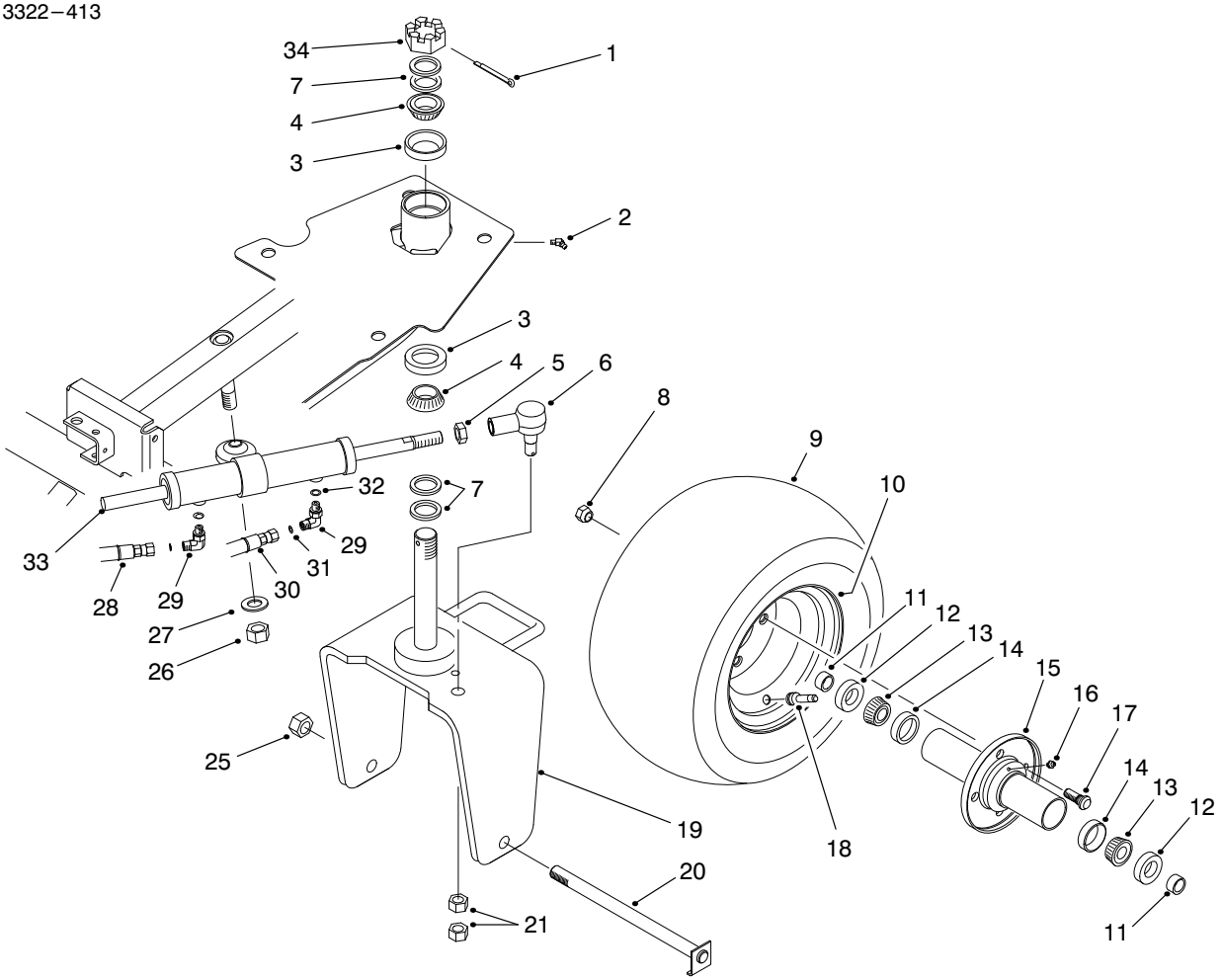


HYDRAULIC PUMP 92−9764

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	Asm−Idler Shaft, Gear	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	Asm−Idler Shaft, Gear.	1
13	354−14	Pin − Dowel	2
14	92−9766	Plate − Gear 66B	1
15	354−2	Body Assembly	1
16	5−0946	Key − Square	1
17	354−15	Seal − Shaft	1

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

3322−413

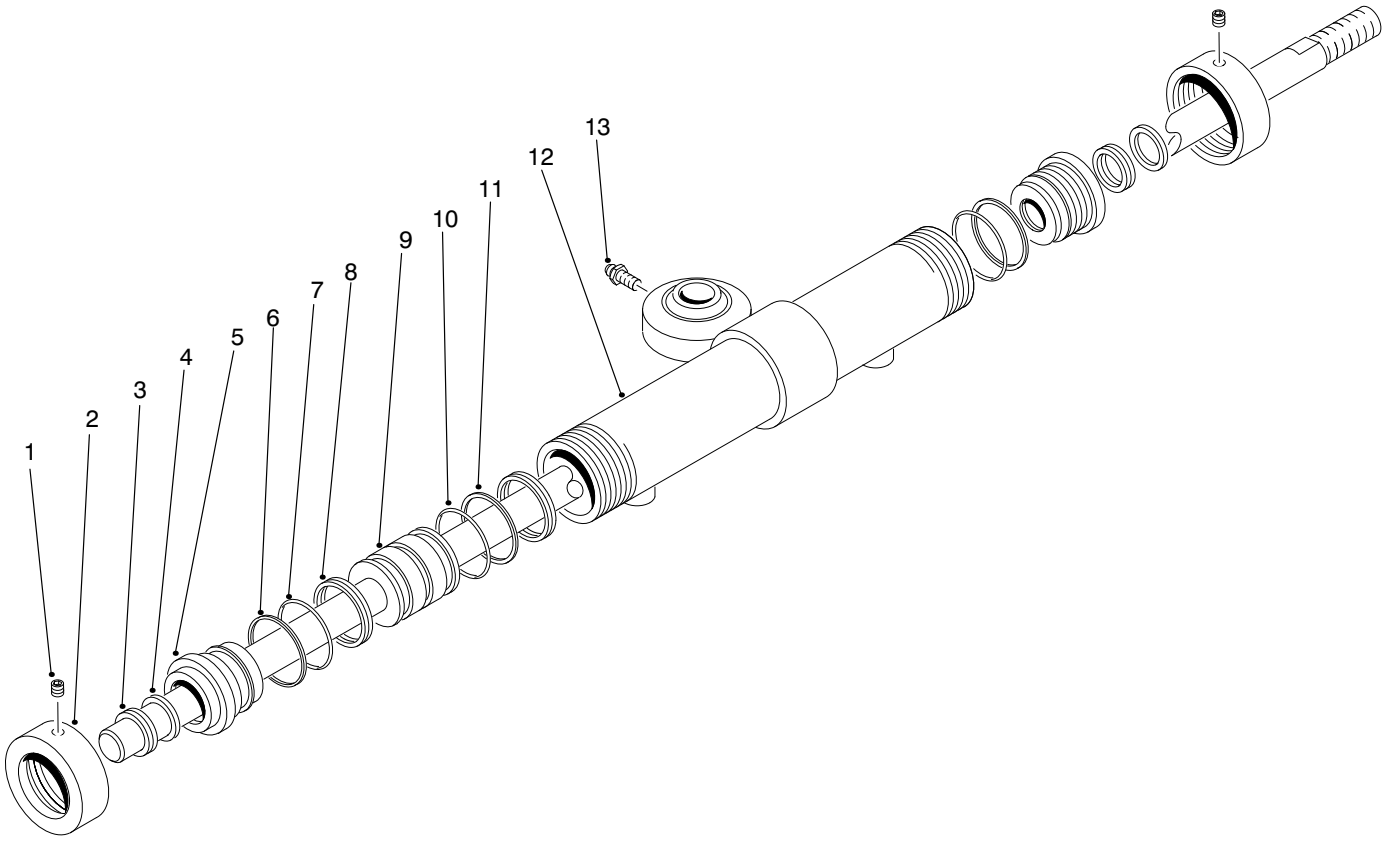


T−1288−3

REAR WHEEL ASSEMBLY

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

Ref. No.	Part No.	Description	No. Used
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	3220−6	Nut − Jam	2
25	3296−67	Nut − Lock	1
26	3217−12	Nut − Lock	1
27	3256−28	Washer − Flat	1
28	83−1350	Hose − Hydraulic	1
29	340−132	Fitting − Hydraulic 90° (Incl. Ref. #31 & 32)	2
30	83−1360	Hose − Hydraulic	1
31	237−21	O−Ring	2
32	237−78	O−Ring	2
33	83−2330	Asm−Hydraulic Cylinder	1
34	32136−9	Nut − Hex. Slotted	1



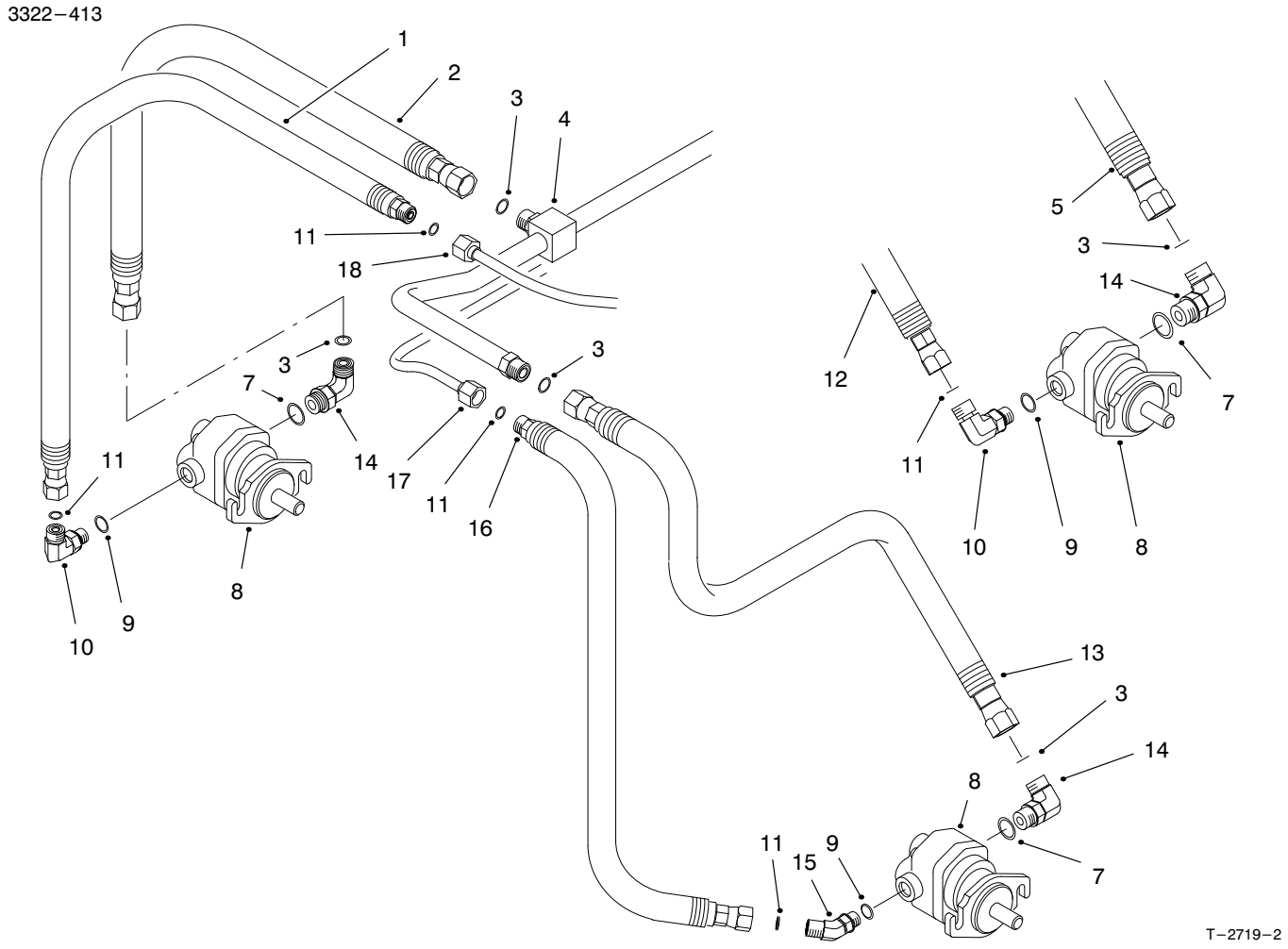
T−1313

HYDRAULIC CYLINDER ASSEMBLY NO. 83−2330

Ref. No.	Part No.	Description	No. Used
1	3245−1	Screw − Set, HSH	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	Asm−Rod	1
10		O−Ring	1
11		Ring − Piston, Urethane	1
12	83−2370	Asm−Barrel	1
13	302−5	Fitting − Grease	1
*	83−2380	Kit−Seal Repair (Incl. Ref. #1−7)	1

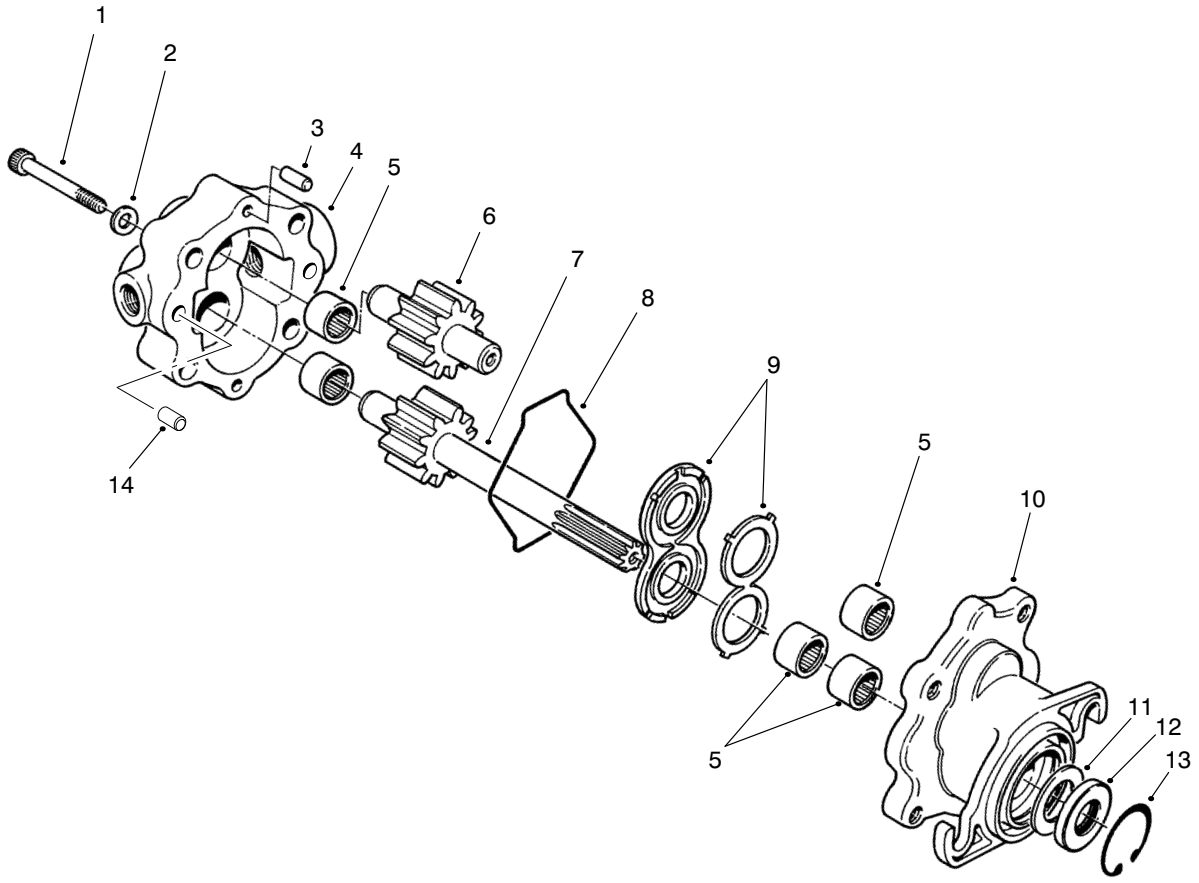
*Not Illustrated



REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	95−5984	Asm−Hydraulic Hose (Incl. Ref. #21 & 23)	1
2	95−5985	Asm−Hydraulic Hose (Incl. Ref. #21 & 24)	1
3	237−30	O−Ring	5
4	63−4040	Asm−Hydraulic Tube (Incl. Ref. #3)	1
5	95−5987	Asm−Hydraulic Hose (Incl. Ref. #22 & 24)	1
7	237−79	O−Ring	3
8	94−3506	Asm−Reel Motor	3
9	237−42	O−Ring	3
10	340−77	Fitting − Hydraulic 90° (Incl. Ref. #9 & 11)	2

Ref. No.	Part No.	Description	No. Used
11	237−22	O−Ring	5
12	95−5986	Asm−Hydraulic Hose (Incl. Ref. #21 & 23)	1
13	95−5989	Asm−Hydraulic Hose (Incl. Ref. #20 & 24)	1
14	340−98	Fitting − Hydraulic 90° (Incl. Ref. #3 & 7)	3
15	340−87	Fitting − Hydraulic 45° (Incl. Ref. #9 & 11)	1
16	95−5988	Asm−Hydraulic Hose (Incl. Ref. #19 & 23)	1
17	63−4020	Tube − Hydraulic	1
18	63−4030	Tube − Hydraulic	1



T−1872

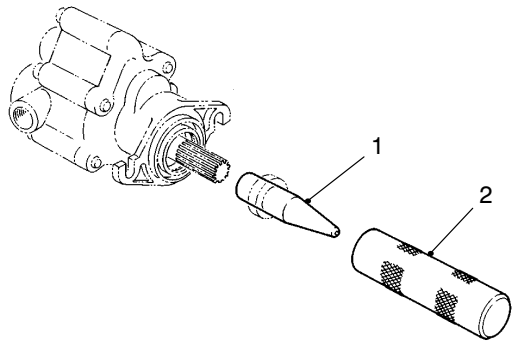
REEL MOTOR NO. 94−3506

Ref. No.	Part No.	Description	No. Used
1	354−50	Screw − HSH	4
2	354−51	Washer	4
3	353−599	Pin − Dowel	2
4	94−3507	Asm−Cover (Incl. Ref. #5)	1
5		Bearing − Needle	5
6	94−3509	Asm−Idler Gear	1
7	94−3508	Asm−Drive Shaft	1
8	354−46	Ring − Seal	1
9	74−3810	Asm−Load Plate	1
10	92−8795	Asm−Body (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	Kit−Repair (Incl. Ref. #8 & 11−13)	1

*Not Illustrated

SPECIAL TOOLS

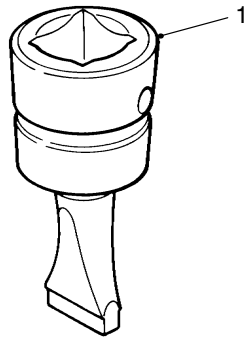
REEL MOTOR SEAL INSTALLATION TOOLS



T−0727

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

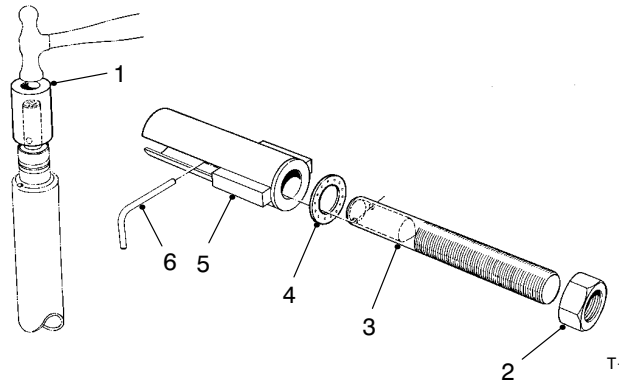
BED KNIFE SCREW TOOL NO. TOR510880



T−0729

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

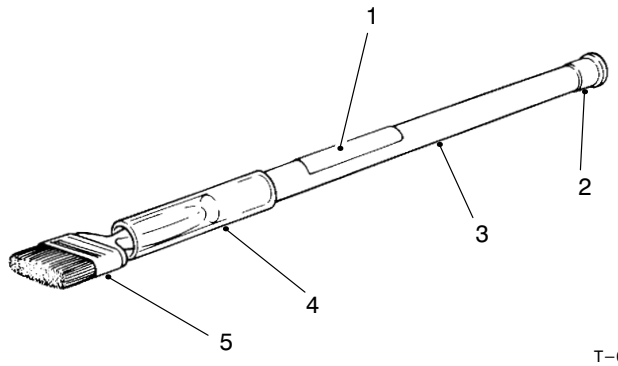
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



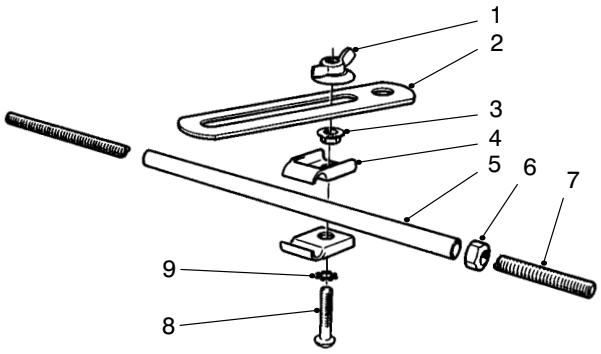
T−0731

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)

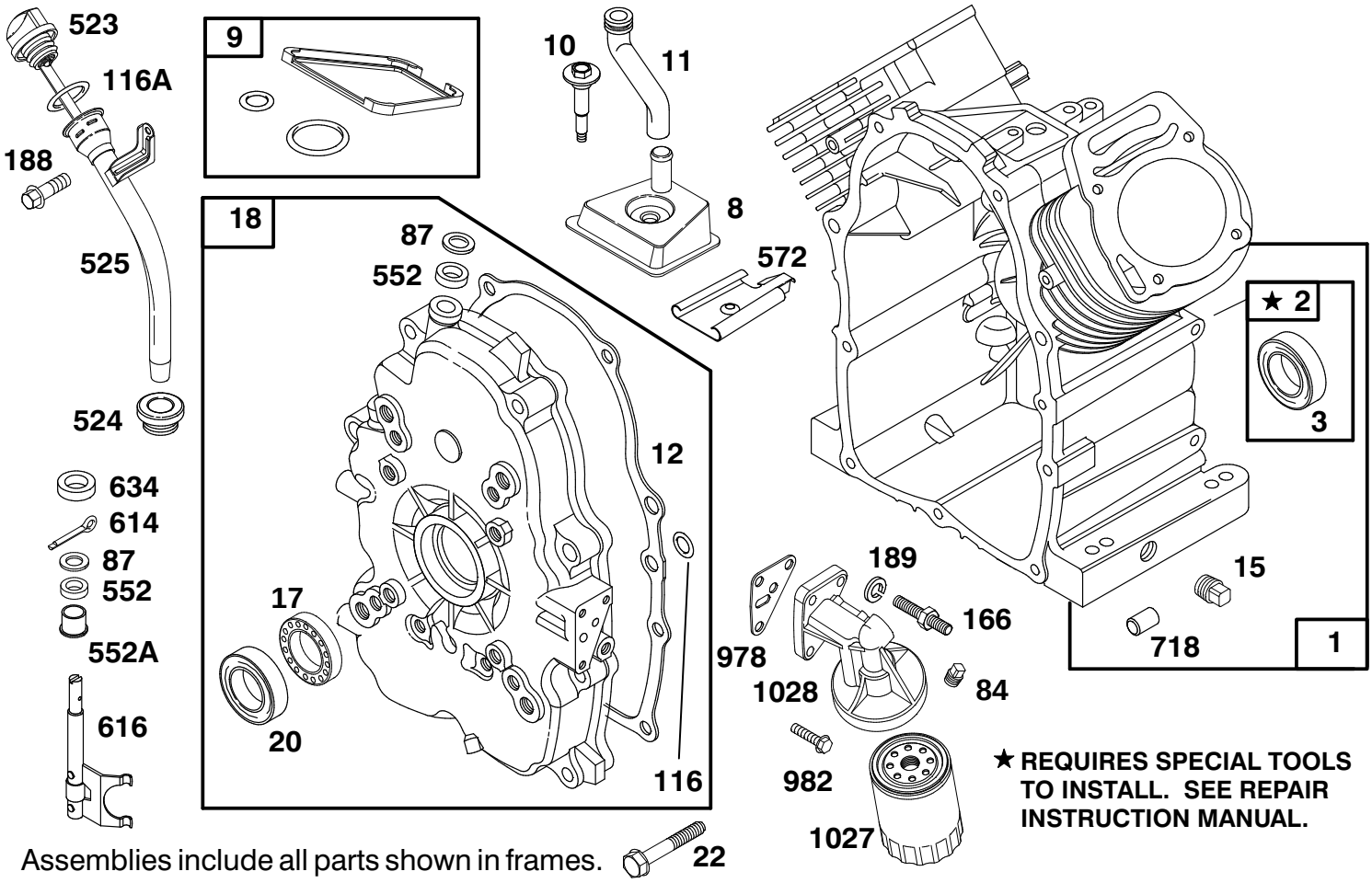
ALIGNMENT TOOL NO. TOR200120



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



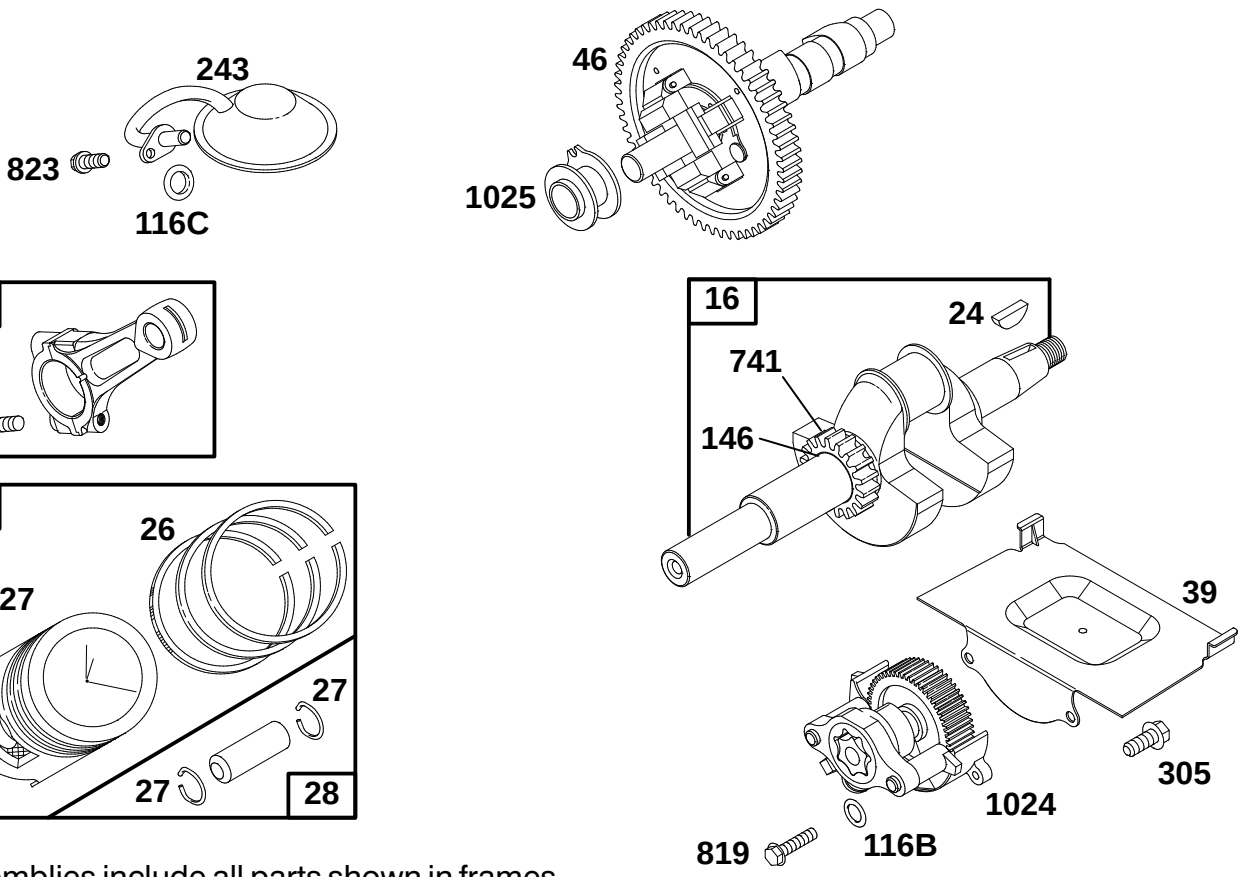
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

Ref. No.	Part No.	Description	No. Used
1	808440	Cylinder Assembly	1
2	808534	Bearing – Cylinder	1
*3	805101	Seal – Oil	1
8	807795	Breather Assembly	1
*9	807688	Gasket – Breather	1
10	805751	Screw – Hex.Washer Head	1
11	806083	Tube – Breather	1
12	806190	Gasket – Crankcase Cover	1
15	805048	Plug – Oil Drain	1
17	805754	Bearing – Ball	1
18	808502	Cover Assy. – Crankcase	1
*20	805049	Seal – Oil	1
22	805696	Screw – Crankcase Cover	1
84	91488	Plug – Pipe	1
*87	805054	Seal – Governor Shaft	1
116	806191	O–Ring (Crankcase Cover)	1
*116A	805386	O Ring (Dipstick)	1
166	805073	Stud – Oil Filter Adapter	1

Ref. No.	Part No.	Description	No. Used
188	805247	Screw – Hex. Head	1
189	805449	Lockwasher	1
523	807977	Dipstick	1
*524	281370	Seal – Fill Tube	1
525	807584	Tube – Oil Fill	1
552	805412	Bushing – Governor Shaft	1
552A	805413	Bushing – Governor Shaft	1
572	805197	Baffle – Breather	1
614	806096	Pin – Cotter	1
616	807596	Fork – Governor	1
634	805416	Washer – Governor Shaft	1
718	805103	Dowel – Crankcase	1
*978	805250	Gasket – Oil Filter Adapter	1
982	805030	Screw	1
1027	492932	Filter – Oil	1
1028	808325	Adapter – Oil Filter	1
1058	273685	Owner's Manual	1

*Included in Gasket Set – Part No. 808390.



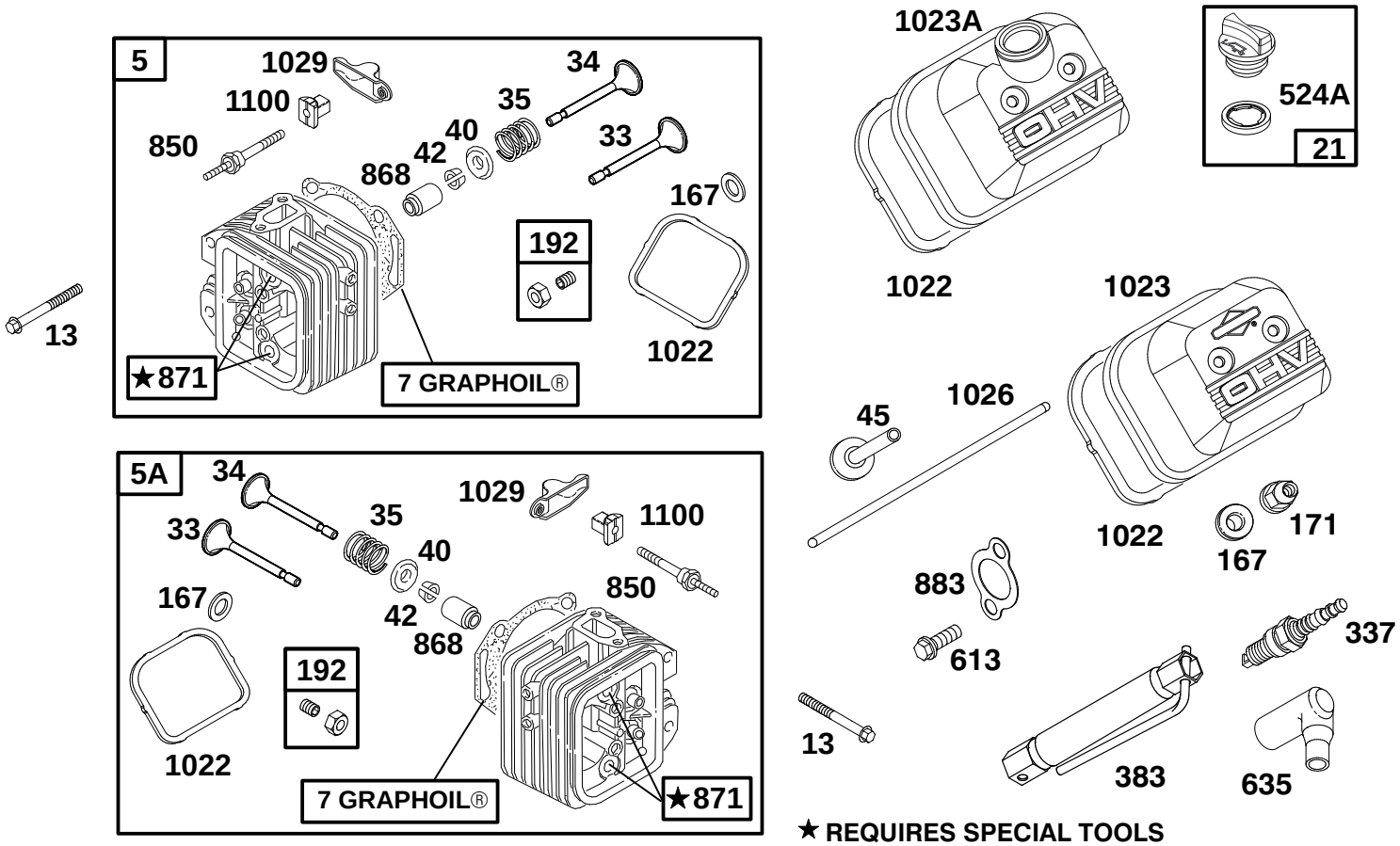
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

Ref. No.	Part No.	Description	No. Used
16	808417	Crankshaft	1
24	806066	Key – Flywheel	1
25	807619	Piston Assembly (Standard)	1
	807807	Piston Assembly (.010 O.S.)	1
	807809	Piston Assembly (.020 O.S.)	1
	807811	Piston Assembly (.030 O.S.)	1
26	807620	Ring Set – Piston (Standard)	1
	807808	Ring Set – Piston (.010 O.S.)	1
	807810	Ring Set – Piston (.020 O.S.)	1
	807812	Ring Set – Piston (.030 O.S.)	1
27	805099	Lock – Piston Pin	1
28	807621	Piston Pin Assembly	1
29	807900	Connecting Rod Assembly	1
	807809	Rod – Connecting (.020 U.S.)	1

Ref. No.	Part No.	Description	No. Used
32	805395	Screw – Connecting Rod	1
39	805654	Deflector – Oil	1
46	807542	Gear – Cam	1
*116B	805058	O–Ring (Oil Pump)	1
*116C	805316	O–Ring (Pick – Up Tube)	1
146	94196	Key – Timing	1
243	807598	Screen – Oil Pump Pick-Up	1
305	805406	Screw	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. 808390.



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

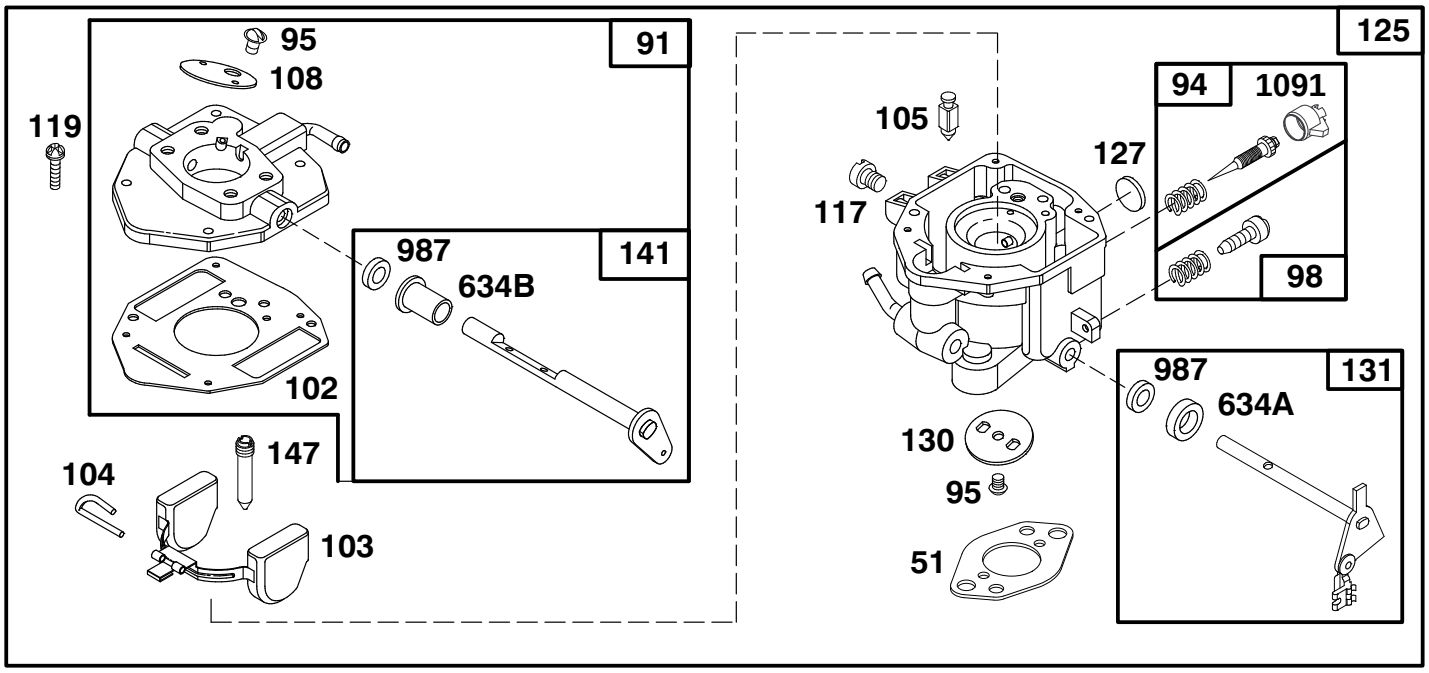
Assemblies include all parts shown in frames.

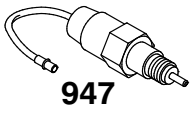
ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

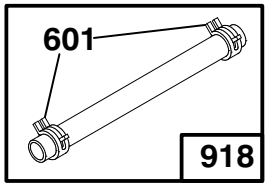
Ref. No.	Part No.	Description	No. Used
5	808381	Head – Cylinder (Cyl. #1)	1
5A	808382	Head – Cylinder (Cyl. #2)	1
*‡7	806085	Gasket – Cylinder Head	1
13	805097	Screw – Cylinder Head	1
21	491832	Plug – Oil Filler	1
33	807681	Valve – Exhaust	1
34	807680	Valve – Intake	1
35	805937	Spring – Valve	1
40	805092	Retainer – Valve Spring	1
42	807683	Retainer – Valve	1
45	262679	Tappet – Valve	1
*‡167	805420	Washer – Valve Cover	1
‡171	805019	Nut – Nylock	1
192	807623	Screw – Valve Adjustment	1
337	496018	Plug – Spark	1
383	19374	Wrench – Spark Plug	1

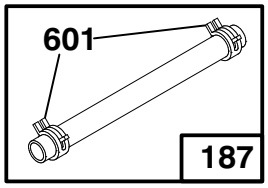
Ref. No.	Part No.	Description	No. Used
*‡524A	271983	Seal – Filler Plug	1
613	805158	Screw – Hex.	1
635	805529	Elbow – Spark Plug	1
868	805094	Seal – Valve Guide	1
871	805084	Guide – Valve	1
*‡883	805024	Gasket – Exhaust Manifold	1
850	806037	Stud – Rocker Arm	1
*‡1022	806039	Gasket – Valve Cover	1
1023	805100	Cover – Valve	1
1023A	808032	Cover – Valve	1
1026	805352	Rod – Push (Intake Valve) **Note:** 805617 Rod – Push (Exhaust Valve)	1
1029	806036	Arm – Rocker	1
1100	806038	Pivot – Rocker Arm	1

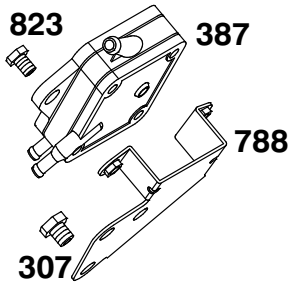
*Included in Gasket Set – Part No. 808390.
‡Included in Valve Overhaul Kit – Part No. 808392.











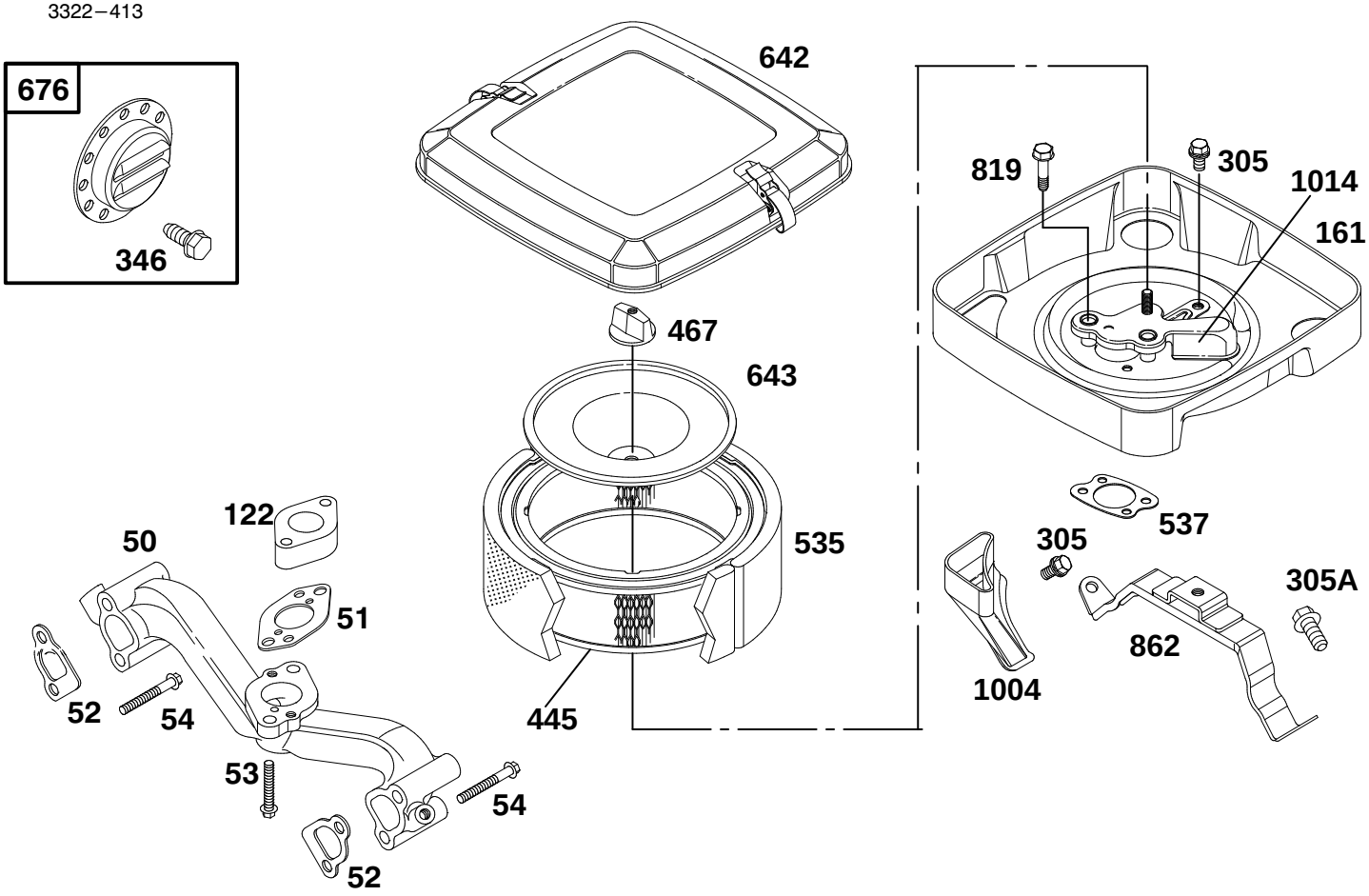
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

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
†94	808257	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
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 Gasket Set – Part No. 808390.
†Included in Carburetor Kit – Part No. 808273.

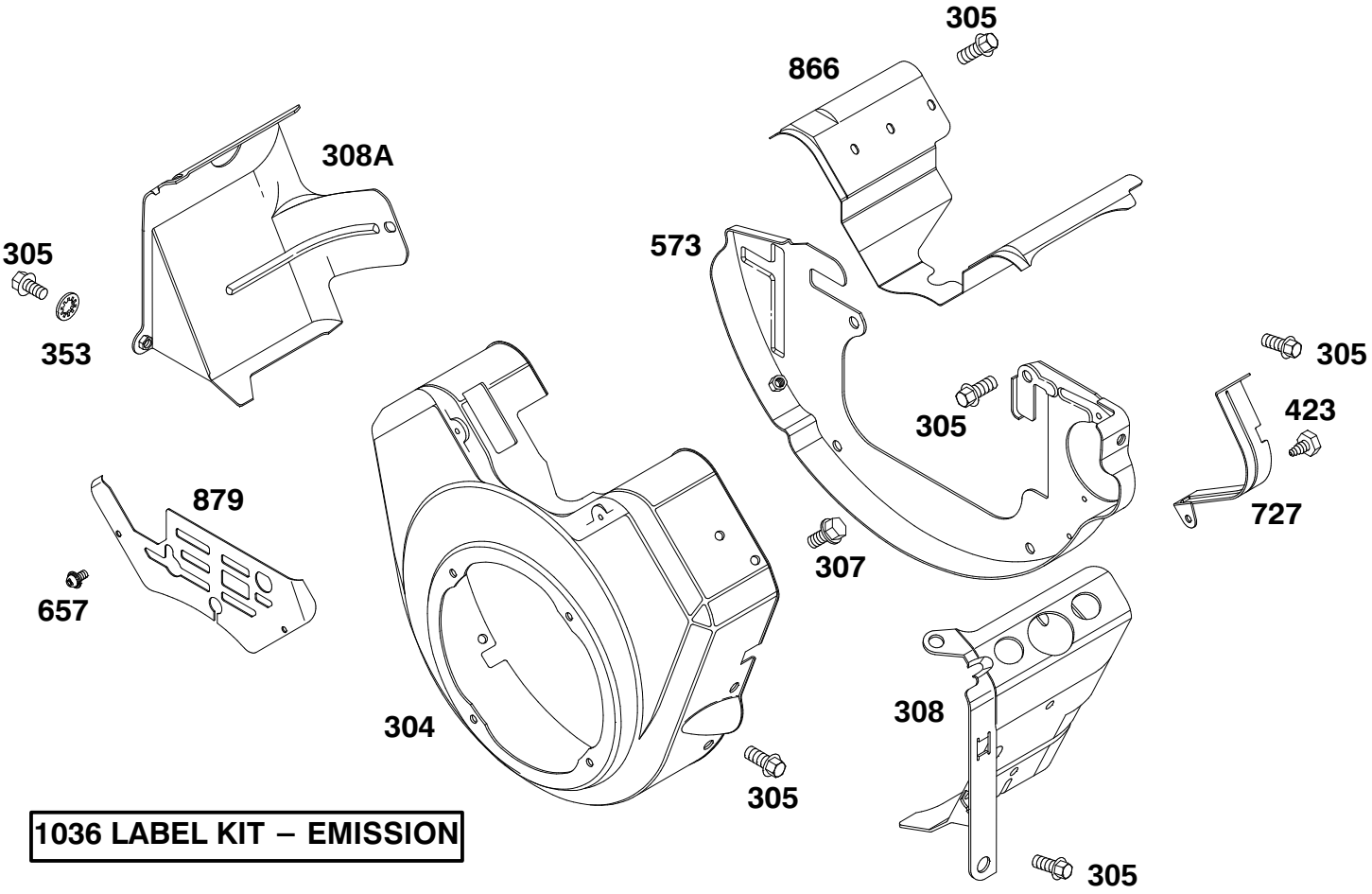


ENGINE BRIGGS & STRATTON MODEL 303447−1179−E1

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	805406	Screw − Hex. (M6 x 12mm)	1
305A	805902	Screw − Hex. (M6 x 16mm)	1
346	94896	Screw − Hex.	1

Ref. No.	Part No.	Description	No. Used
445	394018	Filter− Air	1
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
676	397630	Deflector − Muffler	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. 808390.
‡Included in Valve Overhaul Kit − Part No. 808392.

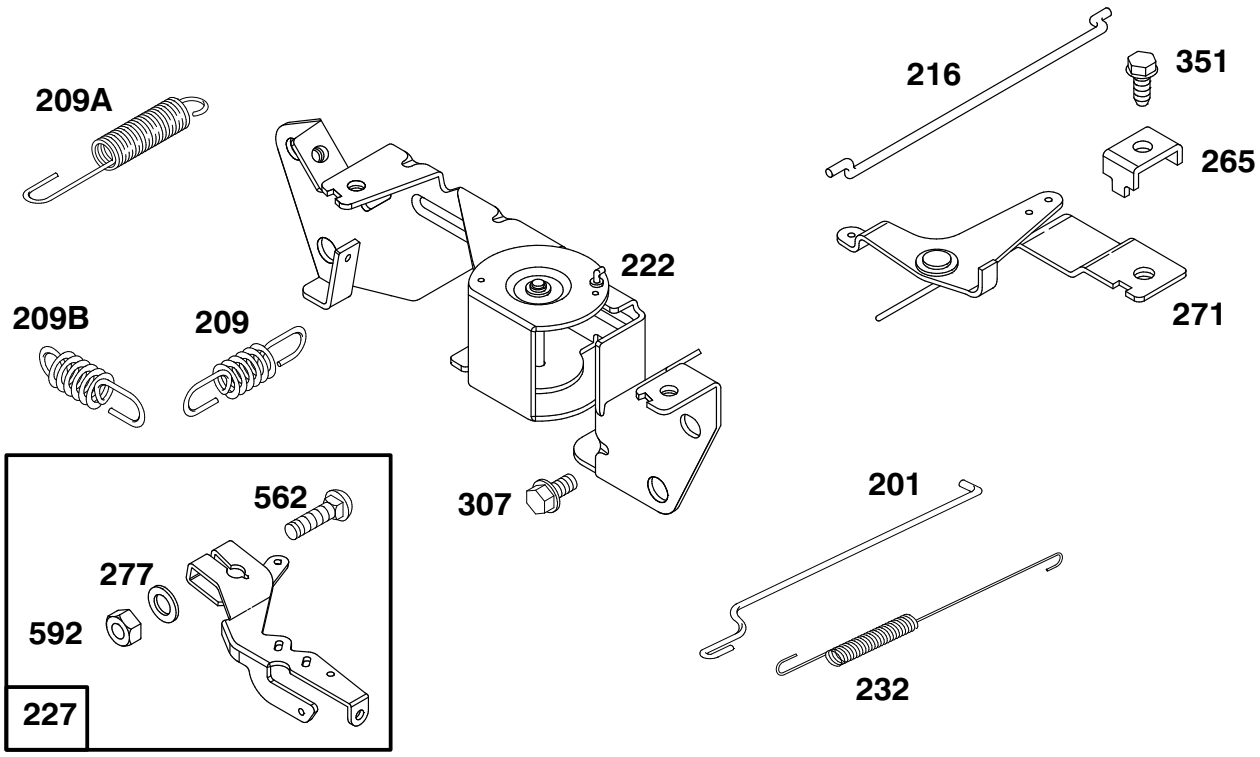


1036 LABEL KIT − EMISSION

ENGINE BRIGGS & STRATTON MODEL 303447−1179−E1

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
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
1036	499366	Label Kit − Emission	1

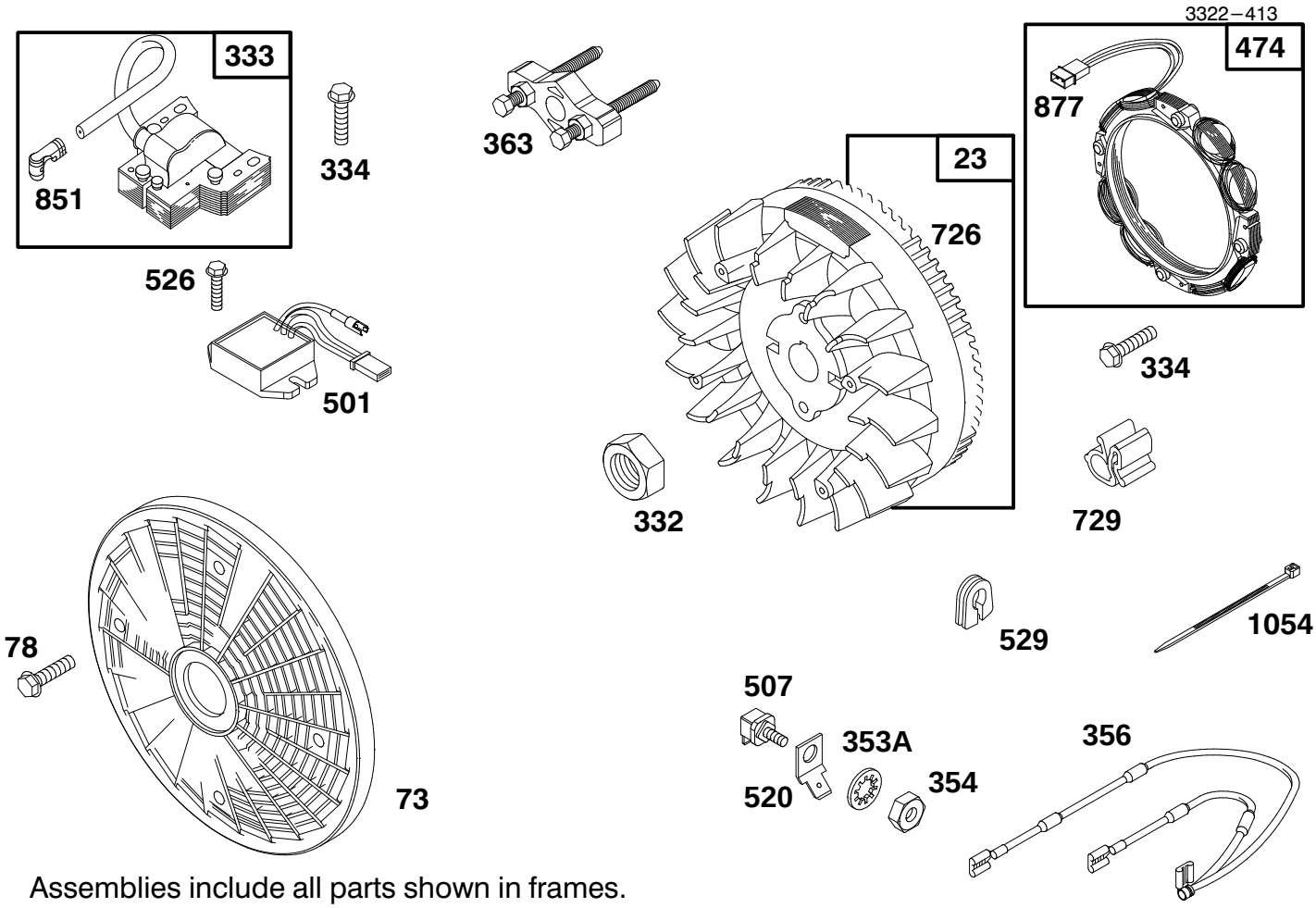


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

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

Ref. No.	Part No.	Description	No. Used
265	221535	Clamp – Casing	1
271	808145	Bracket – Choke Control	1
277	805018	Washer	1
307	805025	Screw – Hex. Head	1
351	805169	Screw – Hex. Head	1
562	805381	Bolt – Carriage	1
592	805383	Nut – Hex.	1

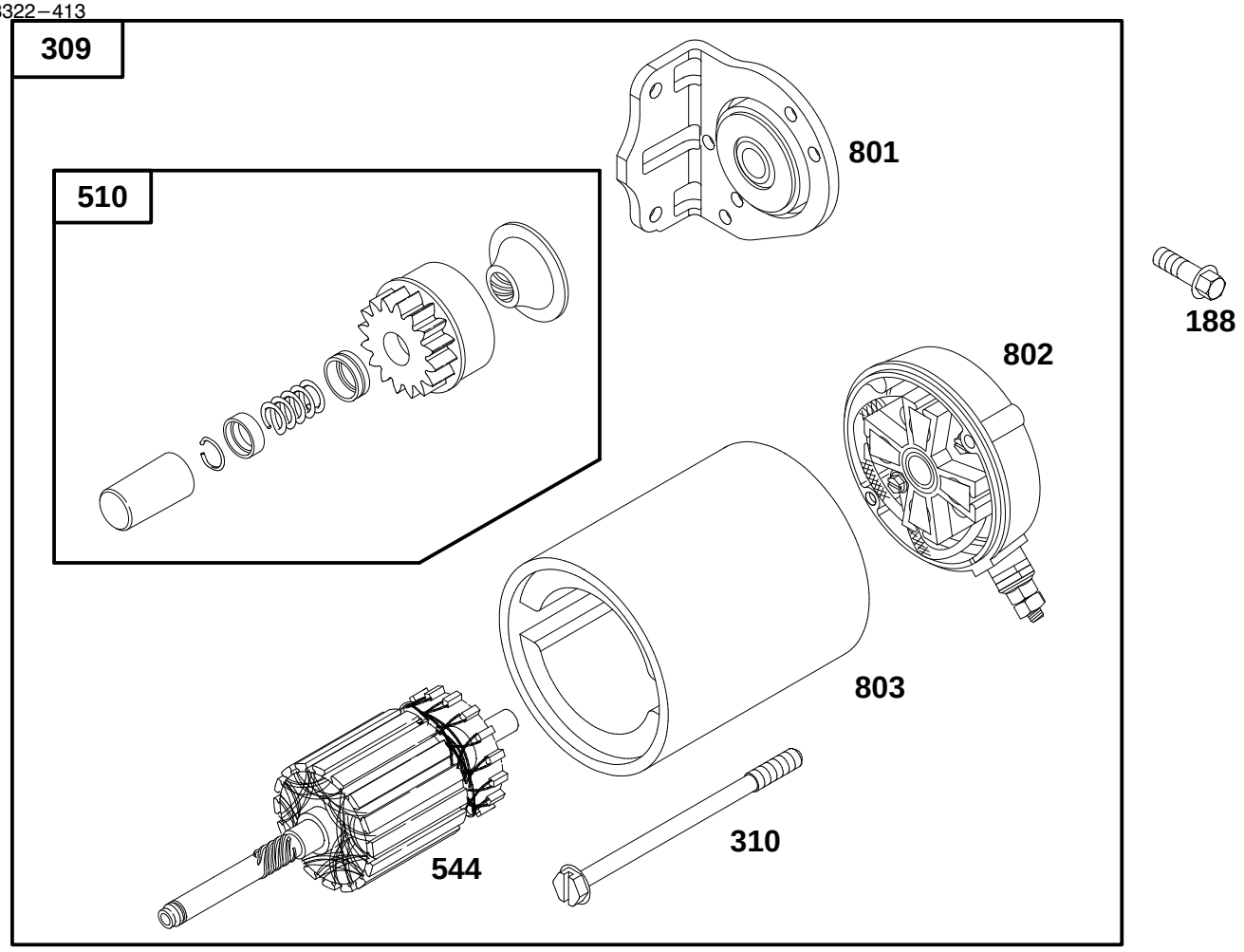


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

Ref. No.	Part No.	Description	No. Used
23	808128	Flywheel – Magneto	1
73	494439	Screen – Rotating	1
78	805447	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

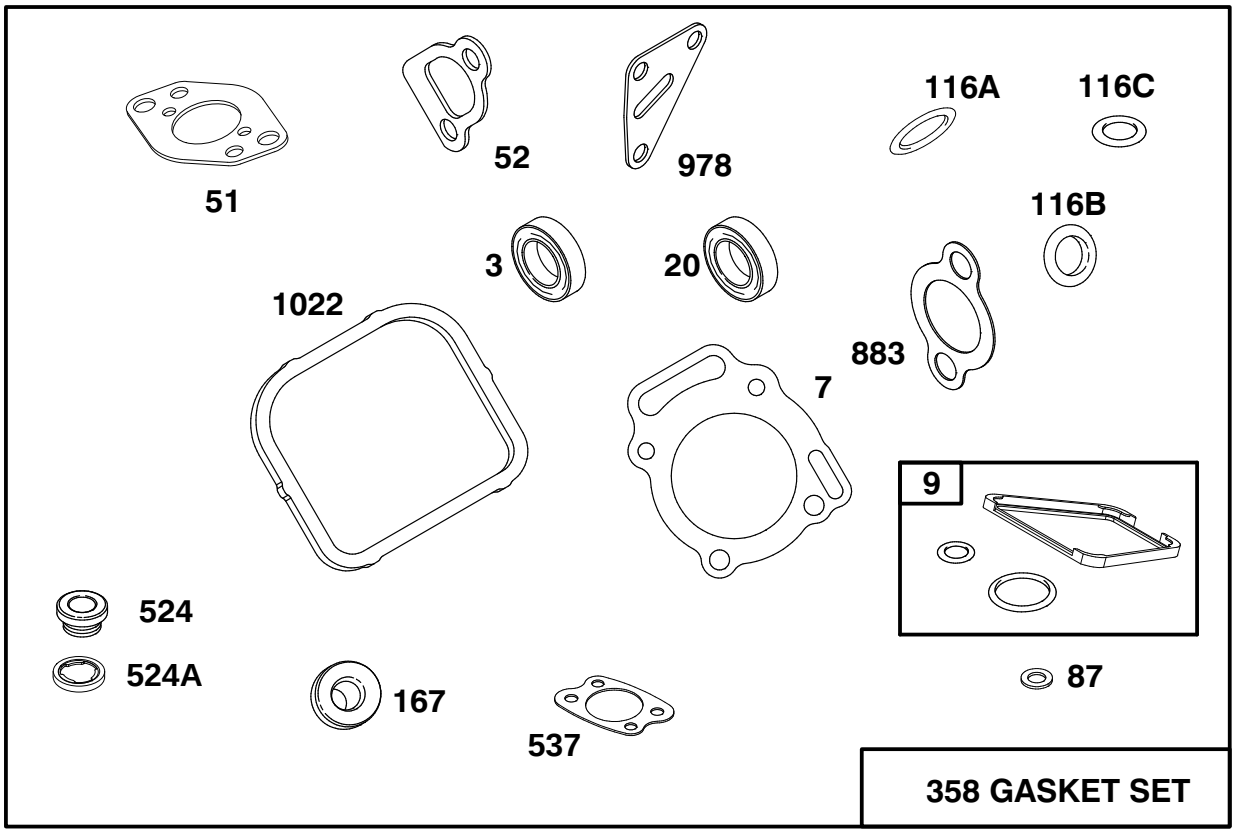
Ref. No.	Part No.	Description	No. Used
501	394890	Regulator – Alternator	1
507	398525	Insulator	1
520	93722	Terminal – Spade	1
526	805448	Screw – Hex. Hd.	1
529	805641	Grommet	1
726	808162	Gear – Flywheel Ring Includes Mounting Hardware	1
729	280470	Clip – Wire	1
851	493880	Terminal – Ignition Cable	1
877	393537	Wire – Alternator	1
1054	280275	Tie – Cable	1



ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

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

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



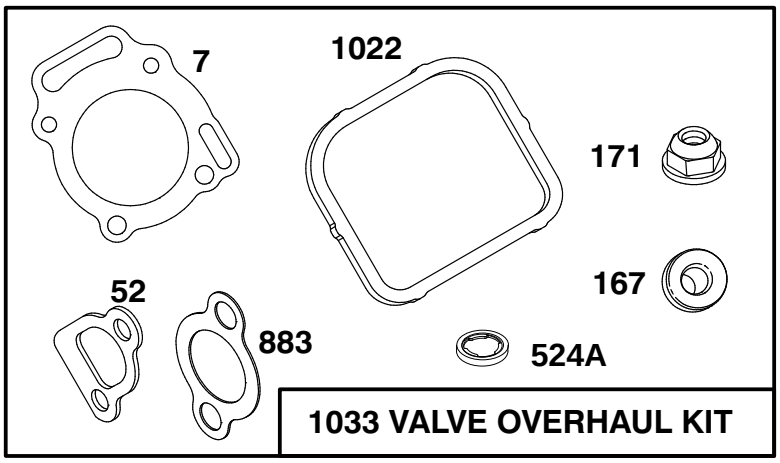
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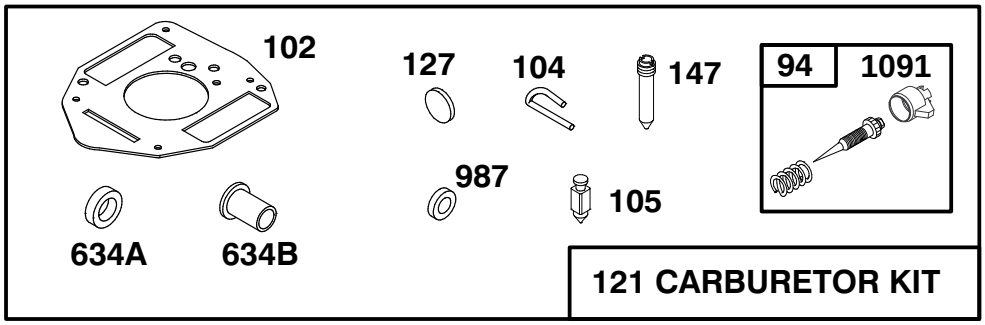
ENGINE BRIGGS & STRATTON MODEL 303447−1179−E1

Ref. No.	Part No.	Description	No. Used
*3	805101	Seal − Oil	1
*‡7	806085	Gasket − Cylinder Head	1
*9	807688	Gasket − Breather	1
*20	805049	Seal − Oil	1
*51	805700	Gasket − Carburetor Mtg.	1
‡*52	805023	Gasket − Intake Manifold	1
*87	805054	Seal − Governor Shaft	1
*116A	805386	O−Ring (Dipstick)	1
*116B	805058	O−Ring (Oil Pump)	1

Ref. No.	Part No.	Description	No. Used
*116C	805316	O−Ring (Pick − Up Tube)	1
*‡167	805420	Washer − Valve Cover	1
358	808390	Gasket Set	1
*524	281370	Seal − Fill Tube	1
*‡524A	271983	Seal − Filler Plug	1
*537	805655	Gasket − Air Cleaner	1
*883	805024	Gasket − Exhaust Manifold	1
*978	805250	Gasket − Oil Filter Adapter	1
*‡1022	806039	Gasket − Valve Cover	1

*Included in Gasket Set − Part No. 808390.
‡Included in Valve Overhaul Kit − Part No 808392.





Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–1179–E1

Ref. No.	Part No.	Description	No. Used
*‡7	806085	Gasket – Cylinder Head	1
*‡52	805023	Gasket – Intake Manifold	1
†94	808257	Valve – Idle Adjust	1
†102	805541	Gasket – Carburetor Body	1
†104	805545	Pin – Float Hinge	1
†105	805547	Valve – Fuel Inlet	1
121	808273	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
*‡883	805024	Gasket – Exhaust Manifold	1
†987	805544	Seal – Shaft	1
*‡1022	806039	Gasket – Valve Cover	1
1033	808392	Overhaul Kit – Valve	1
†1091	805862	Cap – Limiter	1

*Included in Gasket Set – Part No. 808390.
†Included in Carburetor Kit – Part No. 808273.
‡Included in Valve Overhaul Kit – Part No. 808392.

TORO PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.
3−0348	Bushing − Sleeve	3	11	6
3−0348	Bushing − Sleeve	4	14	6
3−0348	Bushing − Sleeve	7	22	6
3−1506	Bushing	1	24	2
3−1506	Bushing − Flange	3	16	4
3−1506	Bushing − Flange	4	30	4
3−1506	Bushing − Flange	7	38	4
3−4808	Nut − Wing	37	1	1
3−6657	Clip − Skid	37	4	2
3−6685	Spring − Compression	22	17	1
5−0946	Key − Square	30	12	1
5−0946	Key − Square	31	16	1
5−1226	Washer − Shim	3	10	2
5−1226	Washer − Shim	4	16	2
5−1226	Washer − Shim	7	24	2
5−3934	Bolt − Castor	32	20	1
10−6060	Pin − Lift Cylinder	3	7	1
10−6060	Pin − Pivot	4	19	1
10−6090	Pin − Pivot	4	33	1
10−6090	Pin − Pivot	3	37	1
10−6090	Pin − Pivot	7	41	1
10−6110	Pin − Hinge	3	3	1
10−6110	Pin − Pivot	4	24	1
10−6821	Asm−Brake Drum	11	*	2
10−6830	Stud − Drive	32	17	4
10−6850	Drum − Brake	11	6	2
10−6870	Hub − Wheel	11	5	2
10−7070	Key − Square	30	20	1
10−7820	Asm−Pivot Hinge	3	12	1
10−7820	Asm−Pivot Hinge	4	25	1
10−7820	Asm−Pivot Hinge	7	33	1
10−7850	Latch − Parking Brake	1	23	1
10−8100	Strap − Brake Shaft	1	31	2
10−8110	Washer − Thrust	3	9	6
10−8110	Washer − Thrust	4	15	6
10−8110	Washer − Thrust	7	23	6
10−8140	Spring − Torsion	1	7	1
11−0160	Asm−Roller Shaft Screw	3	14	2
11−0160	Asm−Roller Shaft Screw	4	28	2
11−0160	Asm−Roller Shaft Screw	7	36	2
12−3270	Screw − HWH	13	38	1
12−3270	Screw − Hex. Washer Hd.	29	17	4
12−3270	Screw − Thread Forming	15	50	1
12−9140	Decal	36	1	1
17−9420	Screw − Traction Stop	13	34	1
18−6320	Washer − Steering	32	7	4
20−0070	Tube	37	5	1
20−0080	Rod	37	7	1
20−0110	Bracket − Alignment	37	2	1
21−8470	Shaft − Roller	3	21	1
21−8470	Shaft − Roller	4	36	1
21−8470	Shaft − Roller	8	44	1
22−6090	Washer − Thrust	36	4	1
23−8840	Puller − Bolt	36	3	1
23−8850	Tube − Support	36	5	1
23−8860	Pin − Bearing Rplcmnt.	36	6	1
23−8880	Driver − Bearing	36	1	2
26−3790	Nut − Lock	11	4	2
27−1960	Hub − Engine	30	21	1
27−1970	Hub − Pump	30	22	1
27−2270	Rod − Brake Adjusting	1	29	2
27−2320	Bearing − Flange	13	7	2
27−2320	Bearing − Flange	2	33	2
27−2380	Spacer	23	32	2
27−2550	Pin − Pivot	7	27	1
27−6600	Spacer − Coupling	30	15	4
28−1400	Battery	23	11	1
28−3680	Tire	11	2	2
28−3680	Tire	32	9	1
28−4210	Solenoid − Starter	23	5	1
28−8080	Boot Terminal (Red)	23	13	1
29−9080	Handle	36	3	1
29−9090	Hose − Handle	36	4	1
36−4310	Brush	36	5	1
37−8130	Basket − Grass	2	*	3
38−0410	Nut − Hex.	17	53	1
38−0410	Nut − Hex.	19	59	1
42−2680	Race R. Detent	16	46	1
43−2830	Nut − Hex	29	33	1
43−5220	Ring − Retaining	9	10	1
43−5230	Shaft & Clevis	9	11	1
43−5930	Washer − Lock	29	25	2
43−8600	Spring − Compression	22	21	1
43−8610	Seat − Ball	22	20	1
43−8620	Guide − Switch	22	23	1
43−8860	Plunger − Switch	22	22	1
43−8870	Boot − Switch	22	26	1
43−9071	Asm−Seat Switch	22	*	1
44−0870	Shaft − Cam	13	5	1
44−2230	Coupling − Rubber	30	16	1
44−5560	Head − Oil Filter	23	27	1
46−8560	Screw − Self Taping	23	20	3
47−2890	Bushing − Sleeve	20	20	2
47−5320	Lever − Control	13	40	1
47−6990	Nut − Steering Wheel	20	10	1
49−2040	Screw − Cap Hex. Hd.	29	27	4
49−5430	Rod − Control	13	1	1
49−5430	Rod − Control	1	4	1
49−5880	Shaft − Seat Support	22	27	1
49−6110	Guard − Transfer Rod	1	6	1
49−6120	Pad − Footrest	1	13	1
49−6200	Lever − Cutting Control	2	42	1
49−6220	Bracket − Control Arm	13	9	1
49−6250	Bracket − Traction Pivot	13	35	1
49−6260	Asm−Pivot, Traction	13	21	1
49−6290	Shaft − Traction Pivot	13	37	1
49−6440	Pedal − Forward	13	42	1
51−0350	Pin − Seat Spring	22	16	1
51−0780	Slider − Seat	22	31	1
51−0790	Adjuster − Seat	22	6	1
52−1990	Piston	5	3	1
52−1990	Piston	6	3	1
52−2720	Asm−Roller	3	20	1
52−2720	Asm−Roller	4	35	1
52−2720	Asm−Roller	7	43	1
52−5860	Collar − Spool	19	51	1
52−5880	Ball − Steel	16	47	12
52−5900	Screw − Fillister Hd.	18	37	4
52−9230	Ring − Retaining	21	2	1
52−9260	Screw − Set	21	26	1
52−9270	Seat − Ball Check	21	24	1
52−9280	Ball − Check	21	22	1
52−9290	Retainer − Ball Check	21	21	1
56−2230	Hose − Fuel	27	17	1
56−7720	Bolt − Battery	23	17	2
56−7970	Clamp Half − Tube	2	45	2
57−6140	Clamp Half − Tube	11	20	2
57−6220	Link	13	17	5
57−7650	Spring − Torsion	4	11	1
57−7650	Spring − Torsion	7	18	1
57−7650	Spring − Torsion	3	32	1
59−6730	Race − Bearing	21	8	2
59−6740	Bearing − Needle Thrust	21	9	1
59−6830	Centering Pin Kit	21	20	1
61−3310	Plate − Logo	23	21	1
62−2420	Bar − Lift	7	8	1
62−2440	Asm−Lift Arm	4	8	1
62−2460	Asm−Lift Arm, LH	3	29	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
63−3840	Hose − Hydraulic	14	36	1
63−3850	Hose − Hydraulic	14	31	1
63−3850	Hose − Hydraulic	3	39	1
63−4020	Tube − Hydraulic	34	17	1
63−4020	Tube − Hydraulic	14	40	1
63−4030	Tube − Hydraulic	34	18	1
63−4030	Tube − Hydraulic	14	41	1
63−4040	Asm−Hydraulic Tube	34	4	1
63−4040	Tube − Hydraulic	14	35	1
63−4050	Fitting − Tee	14	42	2
63−8360	Key − Ignition	24	17	1
63−8410	Washer − Flat	27	4	4
63−8410	Washer − Flat	26	36	3
63−8750	Pin − Pivot	7	9	1
63−8750	Pin − Pivot	4	10	1
63−8750	Pin − Pivot	3	33	1
63−9920	Decal − EEC	23	43	1
65−4860	Head	5	9	1
65−6390	Washer − Thrust	20	13	1
65−8320	Bar − Gauge	2	*	1
66−2950	Gauge − Hourmeter	24	5	1
67−1300	Decal − TORO	23	39	1
67−8113	Cap − End	21	18	1
68−5100	Rod − Seat Prop	22	10	1
68−5130	Asm−Steering Wheel	20	11	1
68−5140	Cap − Steering Wheel	20	9	1
68−5260	Fitting − Manifold Tee	14	37	1
68−5310	Clip − Seat Rod	22	12	1
68−5380	Asm−Lift Arm	7	21	1
68−5560	Pin − Cylinder Pivot	7	26	1
68−5880	Hose − Hydraulic	23	30	1
68−6150	Breather	26	44	1
69−9760	Plate − Cover	2	50	1
70−1480	Relay	24	26	1
70−2770	Head	9	8	1
70−2780	Piston	10	4	1
70−2780	Piston	9	4	1
70−7130	Asm−Tube	14	3	1
70−8130	Barrel	9	1	1
70−8250	Drive	21	16	1
70−9840	Shoe − Brake	11	8	4
70−9850	Clip − Retaining	11	23	2
70−9860	Cam − Brake	11	27	2
70−9870	Plate − Backing	11	10	2
70−9880	Spring − Return	11	7	4
71−0990	Orifice	14	43	1
71−1500	Asm−Brake	11	*	2
72−3850	Seal − Filter	23	28	1
72−4320	Switch − Ball	22	18	1
72−4790	Hold−Down − Battery	23	16	1
74−0720	Tube − Manual	22	3	1
74−3570	Filter − Hydraulic Oil	23	29	1
74−3730	Spacer − Hub	32	11	2
74−3810	Asm−Load Plate	35	9	1
74−3830	Hose − Hydraulic	14	28	1
74−9100	Pad − Forward Pedal	13	25	1
74−9110	Pad − Reverse Pedal	13	23	1
75−0540	Tether − Cap	26	9	1
75−9440	Hub − Wheel	32	15	1
76−0410	Spring	2	54	1
76−0800	Kit−Seal	12	*	1
76−0810	Asm−Housing	12	*	1
76−0840	Manifold	12	22	1
76−0850	Bearing − Thrust	12	12	1
76−0860	Shaft − Coupling	12	11	1
76−0870	Plate − Wear	12	18	1
76−0880	Asm−Commutator	12	*	1
76−0940	Asm−End Cover	12	24	1
76−1850	Clevis	5	13	1
76−1850	Clevis	6	13	1
76−1860	Shaft	5	6	1
78−0080	Clamp − Mounting	24	9	1
83−0030	Control − Throttle	24	12	1
83−0040	Control − Choke	24	13	1
83−0060	Lift − Pivot	1	26	1
83−0080	Spring − Torsion	1	25	1
83−0140	Pedal − Mow	2	38	1
83−0160	Shaft − Brake	2	48	1
83−0190	Cover − RH	11	18	1
83−0200	Cover − LH	1	17	1
83−0540	Pedal − Traction	13	24	1
83−0580	Rod − Traction Control	13	32	1
83−0630	Arm − Traction Pivot	13	29	1
83−0640	Plate − Footrest	1	12	1
83−0650	Arm − Steering	20	3	1
83−0700	Handle − Lockup	20	18	1
83−0730	Spacer − Lockup	20	15	1
83−0740	Disc − Friction	20	14	2
83−0750	Screw − HH LH	20	6	1
83−0760	Plate − Lockup	20	16	1
83−0780	Support − Steering Valve	20	4	1
83−0810	Cover − Steering Valve	20	25	1
83−0830	Panel − Control Upper	23	33	1
83−0840	Fender − LH	23	19	1
83−0870	Fitting − Hydraulic, Straight	26	32	3
83−0910	Hose − Hydraulic	26	30	2
83−0910	Hose − Pump	30	11	2
83−1030	Mount − Engine	29	4	3
83−1040	Washer − Mount	29	2	3
83−1050	Spacer − Mount	29	3	2
83−1060	Adapter − Pump	29	10	1
83−1080	Pipe − Exhaust	29	7	1
83−1150	Wire − Engine Ground	25	4	1
83−1150	Wire − Engine Ground	29	38	1
83−1200	Asm−Tube	14	5	1
83−1220	Plate − Clamp	11	21	1
83−1270	Asm−Seat Support	22	7	1
83−1350	Hose − Hydraulic	30	7	1
83−1350	Hose − Hydraulic	20	26	2
83−1350	Hose − Hydraulic	32	28	1
83−1350	Hose − Hydraulic	14	45	1
83−1360	Hose − Hydraulic	20	27	1
83−1360	Hose − Hydraulic	32	30	1
83−1370	Hose − Hydraulic	20	28	1
83−1390	Fitting − Fuel Shut−Off	27	15	1
83−1400	Shield − Muffler	29	16	1
83−1420	Column − Steering	20	23	1
83−1430	Hose − Hydraulic	23	23	1
83−1430	Hose − Hydraulic	26	34	1
83−1450	Sensor − Oil Level	26	3	1
83−1460	Asm−Solenoid Valve	26	28	1
83−1470	Washer − Neoprene	26	18	4
83−1520	Screen − Filler	26	6	1
83−1530	Bracket − Alarm	24	23	1
83−1550	Spacer − Tank (Short)	26	17	2
83−1560	Spacer − Tank (Long)	26	23	2
83−1630	Bracket − Muffler Support	29	24	1
83−1640	Asm−Rod End	32	6	1
83−1660	Asm−Switch	24	6	1
83−1670	Fitting − Special	14	27	1
83−1680	Hose − Hydraulic	7	13	1
83−1680	Hose − Hydraulic	14	30	1
83−1690	Hose − Hydraulic	14	21	1
83−1690	Hose − Hydraulic	3	40	1
83−1700	Bushing − Flange	11	33	2
83−1700	Bushing − Flange	20	35	1
83−1840	Cover − RH	22	32	1
83−1860	Kit−Centering, Spring	21	12	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
83−1870	Gerotor	21	17	1
83−1880	Asm−Control Parts	21	*	1
83−1890	Switch − Ball	17	54	1
83−1890	Switch − Ball	19	60	1
83−1940	Guard − Pump	30	30	1
83−2000	Spool − Valve	26	42	1
83−2010	Coil − Valve	26	43	1
83−2030	Plate − Filler	24	3	1
83−2040	Hose − Fuel	27	14	1
83−2041	Hose − Fuel	27	11	1
83−2070	Hose − Valve	26	14	1
83−2080	Hose − Valve−Tank	26	29	1
83−2090	Hose − Overflow	26	15	1
83−2100	Tank − Auxiliary Hydraulic	26	26	1
83−2200	Nut − Special	27	8	1
83−2220	Deflector − Exhaust	29	20	1
83−2230	Screw − Cap Hex. Hd.	29	22	4
83−2240	Arrestor − Spark	29	*	1
83−2250	Guage − Sight	26	25	1
83−2280	Timer − Relay	24	27	1
83−2310	Shield	29	35	1
83−2330	Asm−Hydraulic Cylinder	32	33	1
83−2340	Cap − Threaded	33	2	2
83−2350	Cap − Head, Thread	33	5	2
83−2360	Asm−Rod	33	9	1
83−2370	Asm−Barrel	33	12	1
83−2380	Kit−Seal Repair	33	*	1
83−2390	Pad − Tank	26	2	1
83−2400	Spacer − Tank	26	1	2
83−2420	Cable − Positive	25	3	1
83−2430	Boot − Terminal	23	48	1
83−2480	Decal − Parking Brake	1	9	1
83−2490	Decal − Service (Japanese)	22	34	1
83−2510	Decal − Steering Arm	20	32	1
83−2520	Decal − Warning (Japanese)	20	5	1
83−2530	Decal − Mow/Lift (Japanese)	1	14	1
83−2540	Decal − Traction (Japanese)	23	38	1
83−2560	Decal − Warning (Japanese)	29	34	1
83−2570	Plate − Control (Japanese)	24	2	1
83−2580	Hydraulic Cylinder Assembly	3	6	1
83−2580	Hydraulic Cylinder Assembly	4	22	1
83−2590	Bolt − Eccentric	2	47	1
83−7230	Hydraulic Cylinder Assembly	7	10	1
84−2000	Bracket − Brake	11	12	2
84−2203	Asm − Control Valve	19	*	1
84−2203	Asm−Control Valve	14	16	1
84−3180	Decal − Oil (Japanese)	22	33	1
84−5300	Nut − Jam	32	5	1
84−6560	Decal − Danger (Japanese)	4	3	1
84−6560	Decal − Danger (Japanese)	7	3	1
84−6560	Decal − Danger (Japanese)	3	13	1
84−9240	Decal − Service (Spanish)	22	34	1
84−9250	Decal − Service (French)	22	34	1
84−9260	Decal − Service (German)	22	34	1
84−9270	Decal − Service (Swedish)	22	34	1
84−9280	Decal − Service (Italian)	22	34	1
85−6540	Stud − Drive	11	28	8
85−8120	Plate − Engine Mount	29	28	1
86−5360	Kit−Repair	9	*	1
86−5390	Kit−Seal	5	*	1
86−9820	Frame − Pull Rear	7	1	1
88−9620	Decal − Greensmaster 3100	2	46	1
88−9630	Lift Pivot Bracket RH	2	40	1
88−9640	Lift Pivot Bracket LH	1	28	1
88−9660	Shaft − Cutting Control	2	36	1
88−9700	Hose − Hydraulic	7	15	1
88−9700	Hose − Hydraulic	14	20	1
88−9830	Asm−Ignition Switch	24	14	1
92−0585	Asm−Pull Arm, RH	3	19	1
92−0585	Asm−Pull Arm, RH	4	34	1
92−0585	Asm−Pull Arm, RH	7	42	1
92−0586	Asm−Pull Arm, LH	3	17	1
92−0586	Asm−Pull Arm, LH	4	31	1
92−0586	Asm−Pull Arm, LH	7	39	1
92−1180	Asm−Seat	22	5	1
92−2545	Seals − Spool	17	*	1
92−2545	Seals − Spool	19	*	1
92−2546	Wiper − Seal	16	25	4
92−2546	Wiper − Seal	19	64	5
92−2547	Plate − Seal Retainer	18	18	5
92−2547	Plate − Seal Retainer	16	24	4
92−2548	Seals − Spool	17	*	1
92−2548	Seals − Spool	19	*	1
92−2549	Seals − Spool	19	*	1
92−3148	Spring	18	23	1
92−4063	Plug − Filler Cap	26	7	1
92−5524	Decal − Noise Rating	23	42	1
92−6533	Kit − Cushion	22	35	1
92−6534	Shell	22	36	1
92−7189	Tank − Fuel	27	2	1
92−8020	Adapter − Breather	26	21	1
92−8690	Asm−Steering, Valve	20	24	1
92−8691	Bushing − Seal Gland	21	3	1
92−8695	Kit−Seal	21	*	1
92−8696	Screw − Torx Hd.	21	19	7
92−8697	Plate − Wear	21	15	1
92−8795	Asm−Body	35	10	1
92−8796	Pin − Dowel	35	14	2
92−8863	Kit−Repair	35	*	1
92−8966	Reservoir − Hydraulic	26	5	1
92−9164	Asm−Frame	23	18	1
92−9176	Frame − Pull, L.H.	3	24	1
92−9177	Frame − Pull, RH	4	1	1
92−9199	Motor − Hydraulic	11	22	2
92−9761	Link − Drive	12	13	7
92−9762	Screw − HH	12	14	1
92−9763	Rotor Set	12	*	1
92−9764	Asm−Hydraulic Pump	30	9	1
92−9766	Plate − Gear 66B	31	14	1
92−9767	Hose − Hydraulic	14	18	2
92−9767	Hose − Hydraulic	4	39	2
92−9772	Shaft − Drive	31	20	1
92−9773	Gear − 58B	31	21	1
92−9774	Asm−Idler Shaft, Gear.	31	12	1
93−1386	Asm − Section #5	19	*	1
93−2096	Arm − Brake	11	24	2
93−2384	Spacer − Carrier	7	31	1
93−2554	Valve − Needle	15	53	1
93−2555	Fitting − Valve Body	14	17	1
93−2556	Asm−Needle Valve	15	*	1
93−3651	Retainer − Boot	16	22	2
93−3651	Retainer − Boot	18	47	3
93−3652	Asm−Boot, Spool	17	*	2
93−3652	Asm−Boot, Spool	19	*	3
93−6668	Decal − Danger	23	45	1
93−7160	Cap − Hydraulic Reservoir	26	8	1
93−7170	Cap − Fuel	27	1	1
93−7252	Decal − C.E. Mark	23	46	1
93−7257	Decal − Service	22	34	1
93−7258	Decal − Service (Norwegian)	22	34	1
93−7259	Decal − Service (Finnish)	22	34	1
93−7260	Decal − Service (Danish)	22	34	1
93−7261	Decal − Service (Dutch)	22	34	1
93−7276	Decal − Danger	23	44	1
93−7629	Pad − Brake	2	49	1
93−7630	Pad − Mow	2	39	1
93−7631	Pad − Lift	2	37	1
93−8061	Plate − Control	24	2	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93−8062	Decal − Parking Brake	1	9	1
93−8063	Decal − Warning	20	5	1
93−8064	Decal − Danger	4	3	1
93−8064	Decal − Danger	7	3	1
93−8064	Decal − Danger	3	13	1
93−8065	Decal − Traction	23	38	1
93−8067	Decal − Oil	22	33	1
93−8068	Decal − Steering Arm	20	32	1
93−8069	Decal − Warning	29	34	1
93−8075	Decal − Mow/Lift	1	14	1
93−9898	Decal − Lock	2	57	1
93−9901	Bracket − Lock Out, Mow	2	58	1
93−9903	Pin − Lock Out, Mow	2	56	1
93−9904	Arm − Lock Out, Mow	2	55	1
93−9934	Asm−Traction Handle	13	12	1
93−9936	Bracket − Cable	13	44	1
93−9937	Cable − Traction Return	13	45	1
94−2690	Filter − Fuel	27	13	1
94−2694	Cover − RH	23	2	1
94−3506	Asm−Reel Motor	34	8	3
94−3507	Asm−Cover	35	4	1
94−3508	Asm−Drive Shaft	35	7	1
94−3509	Asm−Idler Gear	35	6	1
94−4248	Collar Spool	18	26	1
94−5434	Spool #5	18	1	1
94−5586	Bar − Lift, LH	3	30	1
94−5588	Bar − Lift, RH	4	9	1
94−8036	Decal − Service	22	34	1
95−1628	Hinge − Upper	1	8	1
95−1629	Hinge − Lower	1	22	1
95−5952	Fork − Castor	32	19	1
95−5984	Asm−Hydraulic Hose	34	1	1
95−5985	Asm−Hydraulic Hose	34	2	1
95−5986	Asm−Hydraulic Hose	34	12	1
95−5987	Asm−Hydraulic Hose	34	5	1
95−5988	Asm−Hydraulic Hose	34	16	1
95−5989	Asm−Hydraulic Hose	34	13	1
98−0603	Boot Terminal (Black)	23	47	1
98−0616	Muffler	29	19	1
98−0636	Engine Assembly	29	15	1
98−0646	Hose − Hydraulic	14	4	1
98−0646	Hose − Hydraulic (Bottom)	11	*	1
98−0647	Hose − Hydraulic	14	1	1
98−0647	Hose − Hydraulic (Top)	11	34	1
98−0648	Hose − Hydraulic	15	48	1
98−0649	Hose − Hydraulic	30	1	2
98−0649	Hose − Hydraulic	14	10	2
98−2150	Hose − Hydraulic	14	22	1
98−2150	Hose − Hydraulic	30	28	1
98−2151	Hose − Hydraulic	14	6	1
98−2151	Hose − Hydraulic	30	8	1
98−2153	Hose − Hydraulic	15	51	1
98−2159	Asm−Audio Alarm	24	25	1
98−2160	Gauge − Voltmeter	24	4	1
98−2161	Wire Assembly	25	2	1
98−2162	Harness − Leak Detector	25	6	1
98−2163	Harness − Wire (Main)	25	1	1
98−2163	Harness − Wire (Main)	24	8	1
98−2163	Harness − Wire (Main)	29	37	1
98−2165	Cable − Negative	25	5	1
98−2165	Cable − Negative	29	39	1
98−2165	Cable − Negative	24	40	1
99−1460	Asm−Ball Joint Receiver	4	4	2
99−1460	Asm−Ball Joint Receiver	7	4	2
99−1460	Asm−Ball Joint Receiver	3	25	2
99−1461	Sleeve	4	6	2
99−1461	Sleeve	7	6	2
99−1461	Sleeve	3	27	2
99−1475	Spring − Detent	16	45	1
99−6850	Spring − Centering	16	41	1
99−6850	Spring − Centering	19	65	1
99−6895	Bonnet	18	27	2
99−8159	Hydraulic Cylinder Assembly	3	6	1
99−8159	Hydraulic Cylinder Assembly	4	22	1
99−8160	Hydraulic Cylinder Assembly	7	10	1
99−8162	Kit−Repair	10	*	1
99−8163	Kit−Seal	6	*	1
99−8180	Positioner − R. Detent (Out)	17	*	1
99−8181	Bonnet − R. Detent	16	42	1
99−8182	Section #1 Complete	17	*	1
99−8183	Asm − Section #3	19	*	1
217−60	Rim	11	3	2
217−60	Rim	32	10	1
218−461	Nut − Hex.	24	16	2
218−461	Nut − Hex.	22	25	2
218−498	Nut − Hex.	24	19	2
218−578	Fuse − 10 Amp	24	7	1
218−588	Screw	24	37	3
218−589	Washer − Lock	24	36	1
2112−11	Clamp − Muffler	29	14	1
232−24	Stem − Valve	11	1	2
232−24	Valve Stem w/Cap	32	18	1
233−48	Knob	13	11	1
233−48	Knob	20	17	1
237−7	O−Ring	22	24	1
237−21	O−Ring	30	6	1
237−21	O−Ring	14	19	6
237−21	O−Ring	20	29	4
237−21	O−Ring	32	31	2
237−22	O−Ring	30	2	3
237−22	O−Ring	14	11	6
237−22	O−Ring	34	11	5
237−30	O−Ring	34	3	5
237−30	O−Ring	14	7	2
237−30	O−Ring	22	19	1
237−30	O−Ring	30	27	1
237−35	O−Ring	7	11	2
237−42	O−Ring	30	4	4
237−42	O−Ring	34	9	3
237−42	O−Ring	14	15	4
237−42	O−Ring	20	31	4
237−54	O−Ring	18	3	6
237−54	O−Ring	16	6	8
237−58	O−Ring	14	34	1
237−65	O−Ring	14	2	6
237−65	O−Ring	11	15	4
237−78	O−Ring	7	14	2
237−78	O−Ring	32	32	2
237−78	O−Ring	3	38	2
237−78	O−Ring	4	38	2
237−79	O−Ring	34	7	3
237−79	O−Ring	14	9	4
237−79	O−Ring	26	11	5
237−80	O−Ring	26	4	1
237−80	O−Ring	11	13	4
237−80	O−Ring	30	25	1
237−80	O−Ring	14	32	3
237−81	O−Ring	14	38	1
237−101	O−Ring	23	26	2
237−123	O−Ring	26	24	1
237−143	Grommet	23	40	2
237−177	O−Ring	26	33	3
240−11	Grommet	27	3	4
240−11	Grommet	26	37	3
242−50	Nut − Lug	32	8	4
242−50	Nut − Lug	11	29	8
2410−18	Plug	36	2	1
2410−73	Retainer − Tether	26	10	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
2411−42	Joint − Ball LH Thread	13	30	1
2411−43	Joint − Ball RH Thread	13	33	1
2412−34	Clamp − Hose	30	10	2
2412−34	Clamp − Hose	23	24	2
2412−34	Clamp − Hose	26	31	3
2412−36	Clamp − Hose	26	13	4
2412−36	Clamp − Hose	27	16	2
2412−39	Clamp − R	24	28	1
2412−41	Clamp − R	27	5	3
2412−41	Clamp−R	15	47	2
2412−81	Clamp − R	29	40	1
2412−94	Clamp − R	27	10	1
2412−98	Clamp − Hose	27	18	2
2412−108	Clamp − Hose	27	12	2
2412−133	Clamp − R	22	4	2
2412−141	Clamp − Hose	26	41	2
251−141	Bearing − Ball	3	22	2
251−141	Bearing − Ball	4	37	2
251−141	Bearing − Ball	8	45	2
253−111	Seal − Shaft	32	12	2
254−61	Cup − Bearing	32	3	2
254−70	Cone − Bearing	32	4	2
254−78	Cone − Bearing	32	13	2
254−79	Cup − Bearing	32	14	2
256−2	Bushing − Sleeve	13	20	2
256−155	Bushing − Flange	13	26	2
256−155	Bushing −Flange	22	28	2
256−251	Bushing − Sleeve	13	10	2
282−2	Clevis − Adjusting	1	2	5
282−2	Clevis − Rod	13	3	1
283−8	Pin − Clevis	3	4	1
283−8	Pin − Clevis	4	18	1
283−57	Pin − Clevis	13	8	1
283−61	Pin − Clevis	1	1	5
283−61	Pin − Clevis	13	4	1
283−62	Pin − Clevis	13	46	1
302−2	Fitting − Grease	7	17	1
302−2	Fitting − Grease	4	23	1
302−2	Fitting − Grease Straight	3	34	1
302−5	Fitting − Grease	33	13	1
302−5	Fitting − Grease	1	27	1
302−5	Fitting − Grease	4	29	4
302−5	Fitting − Grease	2	44	1
302−5	Fitting − Grease Straight	3	15	4
302−5	Fitting − Grease, Straight	7	37	5
302−11	Fitting − Grease	32	2	1
302−55	Fitting − Grease	32	16	1
302−60	Fitting − Grease 90˚	3	8	2
302−60	Fitting − Grease 90˚	4	17	2
302−60	Fitting − Grease 90˚	7	32	1
304−61	Clamp − R	14	23	1
321−2	Screw − HH	26	16	1
321−3	Screw − HH	23	10	4
321−3	Screw − HH	22	13	1
321−3	Screw − HH	2	52	3
321−4	Screw − HH	1	16	2
321−4	Screw − HH	11	31	1
321−5	Screw − HH	24	21	1
321−5	Screw − HH	11	26	8
321−11	Screw − HH	11	17	1
321−11	Screw − HH	26	40	2
321−11	Screw − HH	2	43	1
322−1	Screw − HH	3	1	3
322−1	Screw − HH	4	21	3
322−1	Screw − HH	7	30	2
322−1	Screw − HH	30	31	2
322−2	Screw − HH	22	1	2
322−3	Screw − Cap Hex. Hd.	29	32	6
322−3	Screw − HH	7	25	1
322−4	Screw − HH	30	32	2
322−4	Screw − HH	23	36	4
322−5	Screw − HH	13	36	2
322−6	Screw − HH	30	18	4
322−8	Screw − Cap Hex. Hd.	29	21	2
322−14	Screw − HH	26	20	2
322−14	Screw − HH	14	39	3
322−29	Screw − HH	26	22	2
323−4	Screw − HH	20	7	2
323−6	Screw − HH	27	6	3
323−6	Screw − HH	26	35	3
323−8	Screw − HH	30	24	2
323−12	Screw − Cap Hex. Hd.	29	1	3
323−13	Screw − HH	1	5	4
324−7	Screw − Cap Hex. Hd.	29	30	4
325−4	Screw − HH	20	19	2
325−11	Screw − HH	11	9	8
3211−2	Screw − HH	13	19	2
3217−5	Nut − Hex.	23	12	2
3217−6	Nut − Hex.	31	1	4
3217−6	Nut − Hex.	13	48	1
3217−7	Nut − Hex	16	33	3
3217−12	Nut − Lock	32	26	1
3217−25	Nut − Hex.	24	35	2
3217−27	Nut − Hex.	24	10	2
3218−13	Nut − Jam	23	8	2
3219−2	Nut − Hex.	37	6	1
3219−14	Nut − Hex.	23	7	2
3219−18	Nut − Hex.	36	2	1
3220−2	Nut − Jam	13	2	2
3220−2	Nut − Jam	1	3	5
3220−3	Nut − Jam	4	2	2
3220−3	Nut − Jam	7	2	2
3220−3	Nut − Jam	3	23	2
3220−6	Nut − Jam	5	14	1
3220−6	Nut − Jam	6	14	1
3220−6	Nut − Jam	32	21	2
3220−20	Nut − Jam LH Thread	13	31	1
3229−11	Bolt − Carriage	1	10	2
3234−1	Screw − HH	2	53	4
3234−1	Screw − HHF	13	6	4
3234−4	Screw − HH	15	46	1
3241−2	Screw − Set Square Hd.	30	19	2
3241−6	Screw − Set Square Hd.	30	13	2
3245−1	Screw − Set, HSH	33	1	2
3246−3	Screw − Set	20	12	1
3253−3	Washer − Lock	29	26	4
3253−3	Washer − Lock	26	39	2
3253−3	Washer − Lock	19	57	4
3253−3	Washer−Lock	2	59	1
3253−4	Washer − Lock	22	2	2
3253−4	Washer − Lock	23	9	2
3253−6	Washer − Lock	29	29	4
3253−19	Washer − Lock	24	38	3
3253−21	Washer − Lock	30	23	2
3253−21	Washer − Lock	4	27	2
3253−21	Washer − Lock	3	35	2
3253−21	Washer − Lock	7	35	2
3254−1	Washer − Lock	23	6	2
3254−5	Washer − Lock	24	15	2
3254−6	Washer − I.T.L.W.	13	18	2
3255−7	Washer − Lock, Int. Tooth	24	29	1
3255−8	Washer − Lock, Int. Tooth	37	9	1
3255−20	Washer − Lock, Ext. Tooth	24	34	2
3255−25	Washer − Lock, Int. Tooth	24	31	2
3256−1	Washer − Flat	29	18	8
3256−1	Washer − Flat	24	20	9
3256−1	Washer − Flat	2	51	9
3256−22	Washer − Flat	23	3	5

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
3256−22	Washer − Flat	11	30	2
3256−22	Washer − Flat	26	45	1
3256−22	Washer − Flat	15	52	1
3256−23	Washer − Flat	3	2	3
3256−23	Washer − Flat	30	17	8
3256−23	Washer − Flat	26	19	4
3256−23	Washer − Flat	4	20	3
3256−23	Washer − Flat	29	23	2
3256−23	Washer − Flat	7	28	3
3256−23	Washer − Flat	22	30	4
3256−23	Washer − Flat	23	35	4
3256−24	Washer − Flat	13	14	6
3256−24	Washer − Flat	4	26	2
3256−24	Washer − Flat	7	34	2
3256−24	Washer − Flat	3	36	2
3256−26	Washer − Flat	4	12	1
3256−26	Washer − Flat	7	20	1
3256−26	Washer − Flat	3	31	1
3256−26	Washer − Flat	20	34	2
3256−28	Washer − Flat	32	27	1
3256−38	Washer − Flat	2	35	6
3256−63	Washer − Flat	27	7	1
3256−80	Washer − Flat	20	2	3
3257−42	Key − Woodruff	11	11	2
3257−42	Key − Woodruff	12	17	1
3272−4	Pin − Cotter	13	13	1
3272−6	Pin − Cotter	1	30	5
3272−6	Pin − Cotter	13	41	1
3272−10	Pin − Cotter	13	47	1
3272−11	Pin − Cotter	3	5	2
3272−11	Pin − Cotter	22	9	1
3272−11	Pin − Cotter	4	13	2
3272−11	Pin − Cotter	7	19	1
3272−37	Pin − Cotter	32	1	1
3273−26	Screw − HSH	24	18	4
3274−7	Screw − Socket Hd.	29	9	2
3274−12	Screw − HSH	22	29	4
3274−15	Screw − Fillister Hd.	16	43	2
3274−31	Screw − HSH	1	15	4
3274−39	Screw − HH	20	21	6
3274−52	Screw − HSH	16	20	4
3274−52	Screw − HSH	18	45	6
3274−63	Screw − HSH	20	33	2
3274−69	Screw − HSH	24	1	8
3274−69	Screw − HSH	23	4	3
3274−70	Screw − HSH	16	1	2
3274−80	Screw − HH	20	1	3
3274−84	Screw − HH	19	58	4
3284−3	Pin − Groove	22	15	1
3290−277	Nut − Speed	20	22	6
3290−317	Washer − Wave	3	18	2
3290−317	Washer − Wave	4	32	2
3290−317	Washer − Wave	7	40	2
3290−357	Nut − Flange Lock	29	8	3
3290−378	Tie − Cable	29	41	1
3290−379	Tie − Cable	8	46	1
3290−470	Screw − Flat Hd.	23	22	2
3296−4	Nut − Lock	13	22	2
3296−16	Nut − Lock	22	11	1
3296−16	Nut − Lock	1	21	2
3296−16	Nut − Lock	24	24	9
3296−16	Nut − Lock	23	34	3
3296−16	Nut − Lock	15	49	1
3296−23	Nut − Lock	11	19	8
3296−27	Nut − Lock	24	11	4
3296−29	Nut − Lock	22	8	4
3296−29	Nut − Lock	30	14	4
3296−29	Nut − Lock	13	16	3
3296−29	Nut − Lock	7	29	1
3296−39	Nut − Lock	1	20	2
3296−42	Nut − Lock	11	25	8
3296−59	Nut − Lock	13	15	4
3296−59	Nut − Lock	2	34	8
3296−67	Nut − Lock	32	25	1
32103−12	Nut − Wing	23	14	2
32104−76	Screw − TAP	23	1	5
32104−95	Screw − HH	24	39	1
32108−100	Screw − Flat Hd.	11	16	1
32120−8	Ring − Retaining	5	10	1
32121−6	Pin − Roll	13	39	1
32121−6	Pin − Roll	2	41	1
32121−35	Pin − Roll	2	32	8
32121−45	Pin − Roll	22	14	1
32121−45	Pin − Roll	13	28	1
32121−51	Pin − Roll	13	43	1
32122−35	Screw − Truss Head	37	8	1
32128−20	Nut − Flange Lock	14	24	3
32128−20	Nut − Flange Lock	13	27	1
32128−20	Nut − Flange Lock	30	29	2
32128−20	Nut − Flange Lock	29	31	8
32128−20	Nut − Lock, Flange	37	3	1
32128−33	Nut − Flange Lock	1	18	2
32128−33	Nut − Lock	11	32	1
32136−9	Nut − Hex. Slotted	32	34	1
32141−111	Nut − Flange Lock	1	11	1
32144−21	Screw − RH	20	8	2
32148−6	Insert − Threaded	1	19	8
32149−2	Nut − Keps	23	37	2
32149−7	Nut − Keps	23	41	2
32151−41	Ring − Retaining	35	13	1
32152−10	Nut − Hex.	10	2	1
32152−10	Nut − Hex.	9	2	1
32152−10	Nut − Lock	5	2	1
32152−10	Nut − Lock	6	2	1
33113−012	Screw − HH	27	9	1
33113−016	Screw − Cap Hex. Hd.	29	36	1
340−1	Fitting − Hydraulic, Straight	20	30	4
340−14	Fitting − Hydraulic 45˚	11	14	4
340−16	Fitting − Hydraulic 90˚	14	33	1
340−18	Fitting − Hydraulic 90˚	14	13	1
340−77	Fitting − Hydraulic 90˚	34	10	2
340−77	Fitting − Hydraulic 90˚	14	14	2
340−82	Fitting − Hydraulic 90˚	30	5	1
340−87	Fitting − Hydraulic 45˚	30	3	3
340−87	Fitting − Hydraulic 45˚	34	15	1
340−98	Fitting − Hydraulic 90˚	34	14	3
340−101	Fitting − Hydraulic 45˚	14	8	1
340−103	Fitting − Hydraulic 45˚	7	12	2
340−105	Fitting − Hydraulic 90˚	30	26	1
340−132	Fitting − Hydraulic 90˚	32	29	2
340−137	Fitting − Hydraulic 45˚	14	44	1
340−138	Fitting − Hydraulic 45˚	14	12	2
351−78	Edging	22	40	1
353−301	Poppet	16	27	1
353−302	O−Ring	18	7	3
353−302	O−Ring	16	10	3
353−303	Ring − Backup	18	8	6
353−303	Ring − Backup	16	9	6
353−304	Spring	16	28	1
353−305	O−Ring	18	5	5
353−305	O−Ring	16	8	4
353−306	Ring − Backup	18	4	5
353−306	Ring − Backup	16	7	4
353−328	Washer − Shim	16	15	A/R
353−328	Washer − Shim	18	32	A/R
353−329	Washer − Shim	16	16	A/R
353−329	Washer − Shim	18	33	A/R
353−330	Washer − Shim	16	17	A/R

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

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

TABLE OF CONTENTS

Description	Page
Control Pedal Assembly	1–2
Pull Frame Assembly L.H.	3
Pull Frame Assembly R.H.	4
Hydraulic Cylinder Assembly No. 83–2580 (Serial No. 90001 thru 90128)	5
Hydraulic Cylinder Assembly No. 99–8159 (Serial No. 90129 & Up)	6
Pull Frame Assembly Rear	7–8
Hydraulic Cylinder Assembly No. 83–7230 (Serial No. 90129 & Up)	9
Hydraulic Cylinder Assembly No. 99–8160	10
Front Wheel & Brake Assembly	11
Hydraulic Drive Motor Assembly No. 92–9199	12
Traction Controls Assembly	13
Control Valve Installation Assembly	14–15
Control Valve Assembly No. 84–2203 (Sections 1 & 2)	16–17
Control Valve Assembly No. 84–2203 (Sections 3 thru 5)	18–19
Steering Arm Assembly	20
Power Steering Valve Assembly No. 92–8690	21
Seat Assembly	22
Frame Assembly	23
Control Panel Assembly	24
Electrical Schematic	25
Hydraulic Reservoir Assembly	26
Fuel Tank Assembly	27
Hydraulic Schematic	28
Engine Installation Assembly	29
Hydraulic Pump Installation Assembly	30
Hydraulic Pump Assembly No. 92–9764	31
Rear Wheel Assembly	32
Hydraulic Cylinder Assembly No. 83–2330	33
Reel Motor Installation Assembly	34
Reel Motor Assembly No. 94–3506	35
Special Tools	36–37
Briggs & Stratton Engine Assembly Model 303447–1179–E1	38–48
Part Number Index	49–55

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

Compliance with Radio Interference Regulations Certified.
Certifie Conforme au Reglement sur le Brouillage Radioelectrique.

Litho in U.S.A.