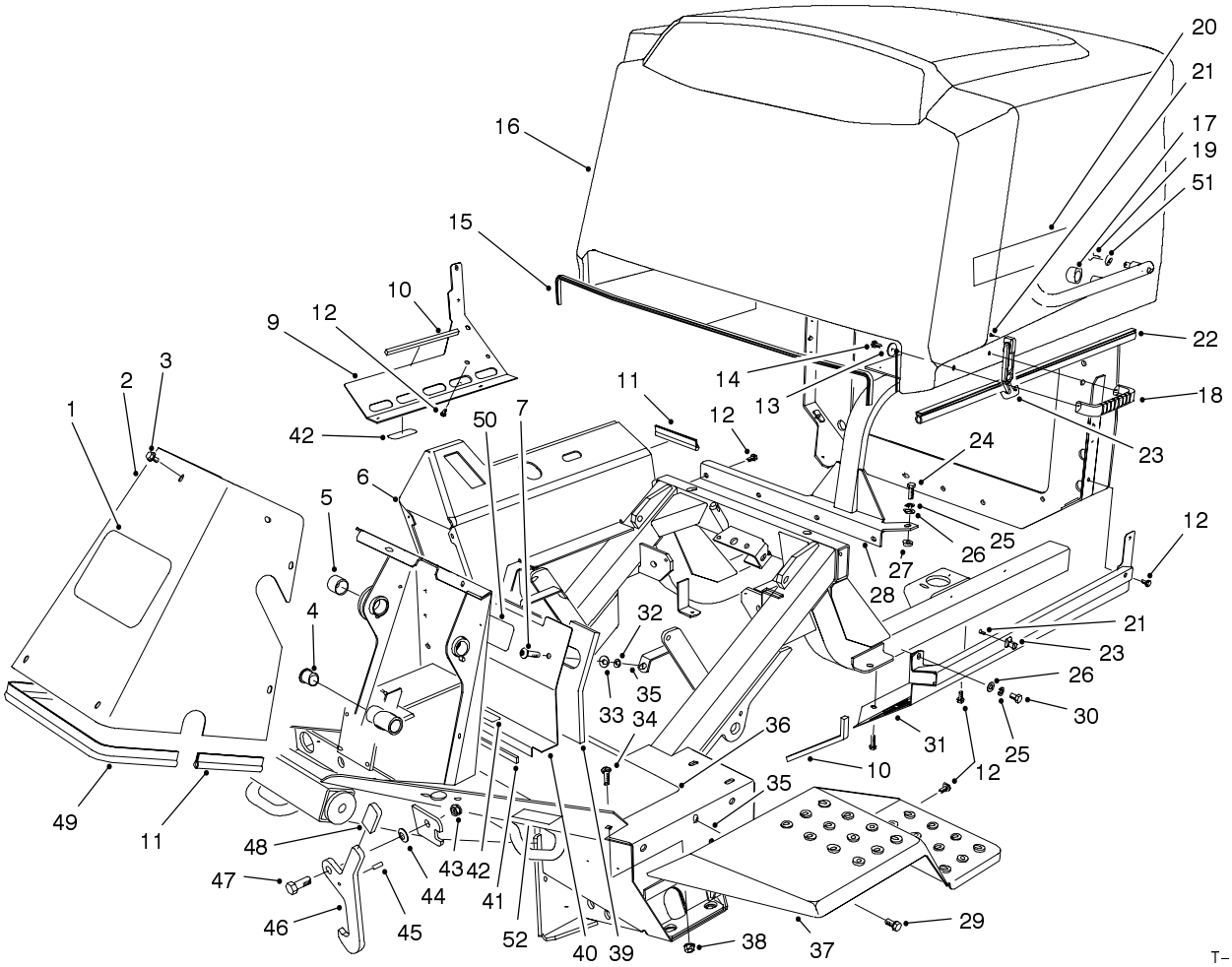
FORM NO. 3324–479 Rev. A

TORO®

MODEL NO. 30450–200000201 & Up
MODEL NO. 30455–200000201 & Up

PARTS CATALOG

GROUNDSMASTER® 455D
TRACTION UNIT WITH CUTTING DECK

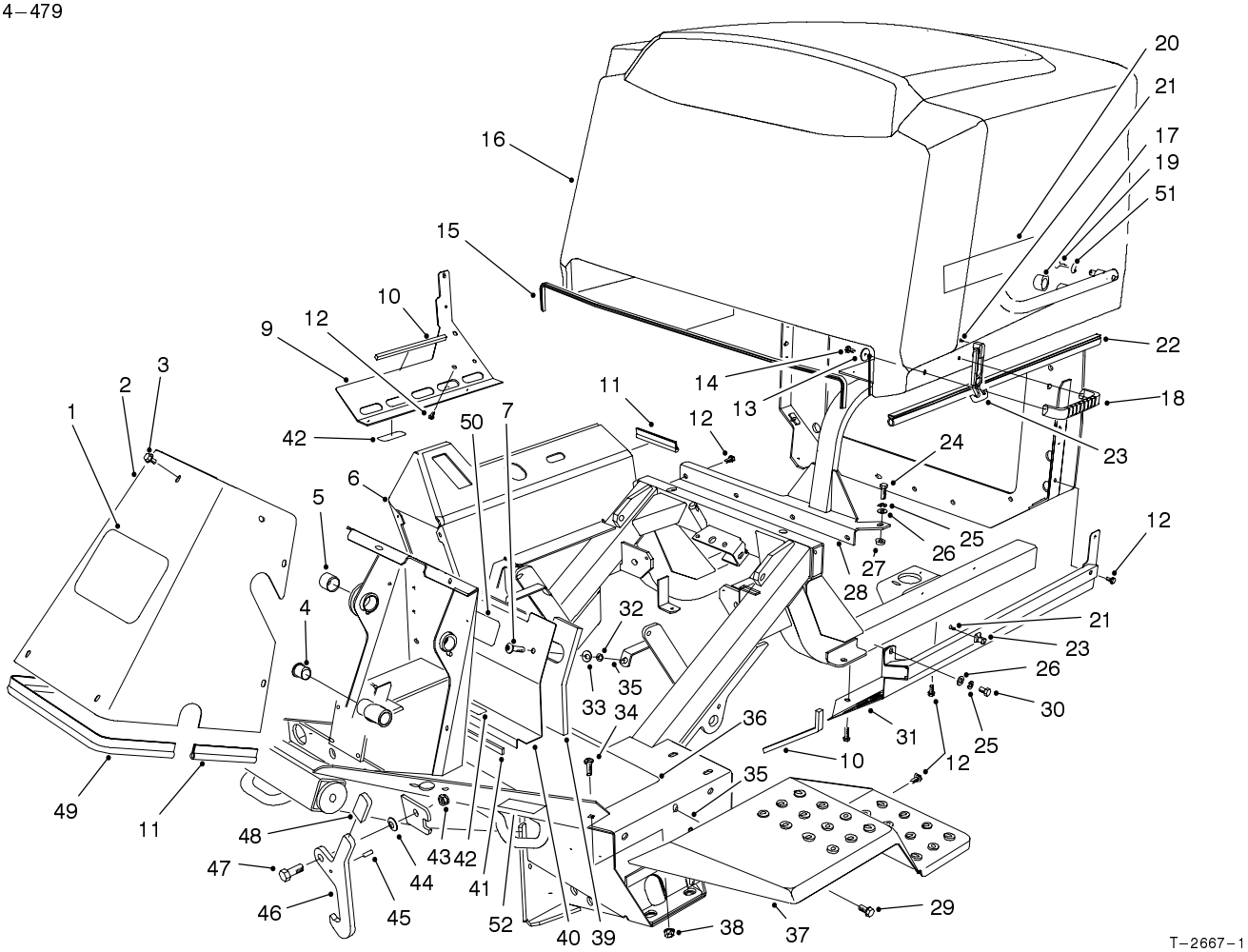


Frame and Body Assembly

Ref. No.	Part No.	Description	No. Used
1	62–7400	Decal–TORO	1
2	76–9700–01	Cover–Tower	1
3	46–6810	Screw–HWH	9
4	256–10	Bushing–Flange	2
5	256–237	Bushing–Sleeve	1
6	84–1080	Frame Assembly (Incl. Ref # 4, 5, 35 & 52)	1
7	3250–36	Screw–PPH	2
9	94–5601–03	Support–Tank, Lower	1
10	68–7573	Seal–Shroud	2
11	76–6360	Strip–Seal	2
12	32144–11	Screw–HWH	17
13	3256–78	Washer–Flat	2
14	46–8091	Screw–HWH	2
15	94–5618	Trim–Wall, Fire	1
16	93–7798	Hood (Incl. Ref. #15, 20 & 22)	1
17	94–5613	Stop–Rubber	2
18	65–5100	Handle–Hood	1
19	3290–467	Pin–Cotter, Hair	2
20	84–1460	Decal–GM 455D	2
21	3290–359	Screw–Head, Round	3
22	94–5617	Seal–Strip, Hood	2
23	94–5626	Latch–Draw	1
24	323–6	Screw–Cap, HH	1
25	3253–21	Washer–Lock	2
26	3256–24	Washer–Flat	2
27	80–7730	Spacer	1
28	93–7236–03	Air Cleaner Support Assembly	1
29	74–4090	Tread–Rest, Foot	1
30	323–4	Screw–Cap, HH	1
31	94–5609–03	Lower Hood Cover Assembly	1

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TPS

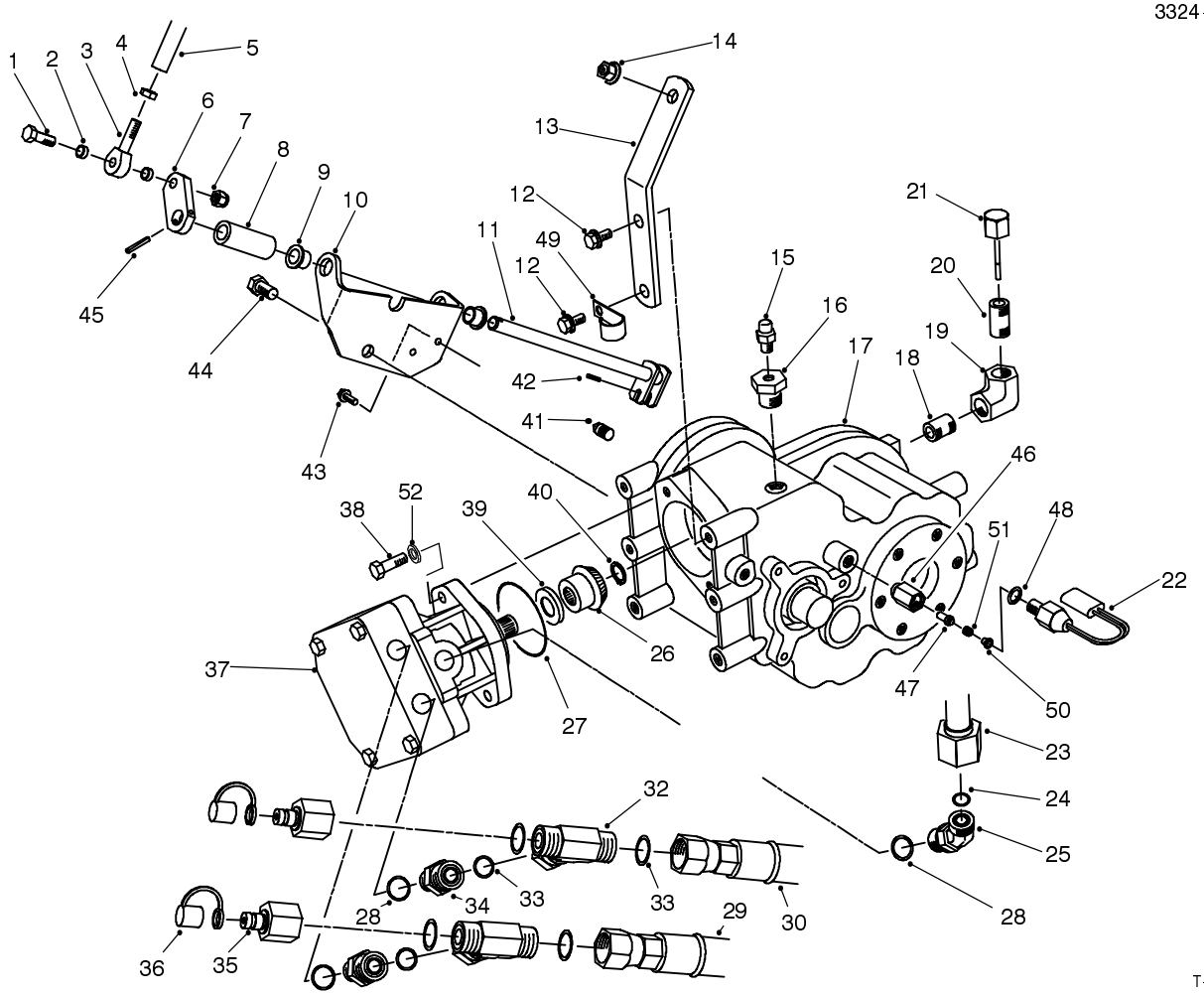


Frame and Body (Continued)

Ref. No.	Part No.	Description	No. Used
32	32151–72	Ring–Retaining	2
33	3256–3	Washer–Flat	2
34	3231–22	Bolt–Carriage	2
35	32148–10	Insert–Threaded	10
36	3234–12	Screw–HWH	7
37	76–9300–01	Fender–LH	1
*	76–9340–01	Fender–RH	1
38	3290–357	Nut–Flange	2
39	88–1310	Foam–Cover	1
40	100–2594	Front Seat Cover Assembly (Incl. Ref #42 & 50)	1
41	76–6380	Strip–Seal, Access Panel	1
42	70–2560	Decal–Oil	
		(Model No. 30450)	1
		(Model No. 30455)	2

Ref. No.	Part No.	Description	No. Used
43	3296–25	Nut–Lock	2
44	3290–483	Washer–Belleville	2
45	32121–11	Pin–Roll	2
46	84–1490–01	Latch–Lockup	2
47	325–5	Screw–Cap, HH	2
48	48–7081	Sleeve	2
49	76–6361	Strip–Seal	1
50	93–9426	Decal–Danger	1
51	83–1470	Washer–Neoprene	2
52	92–1370	Decal–Warning	1

*Not Illustrated



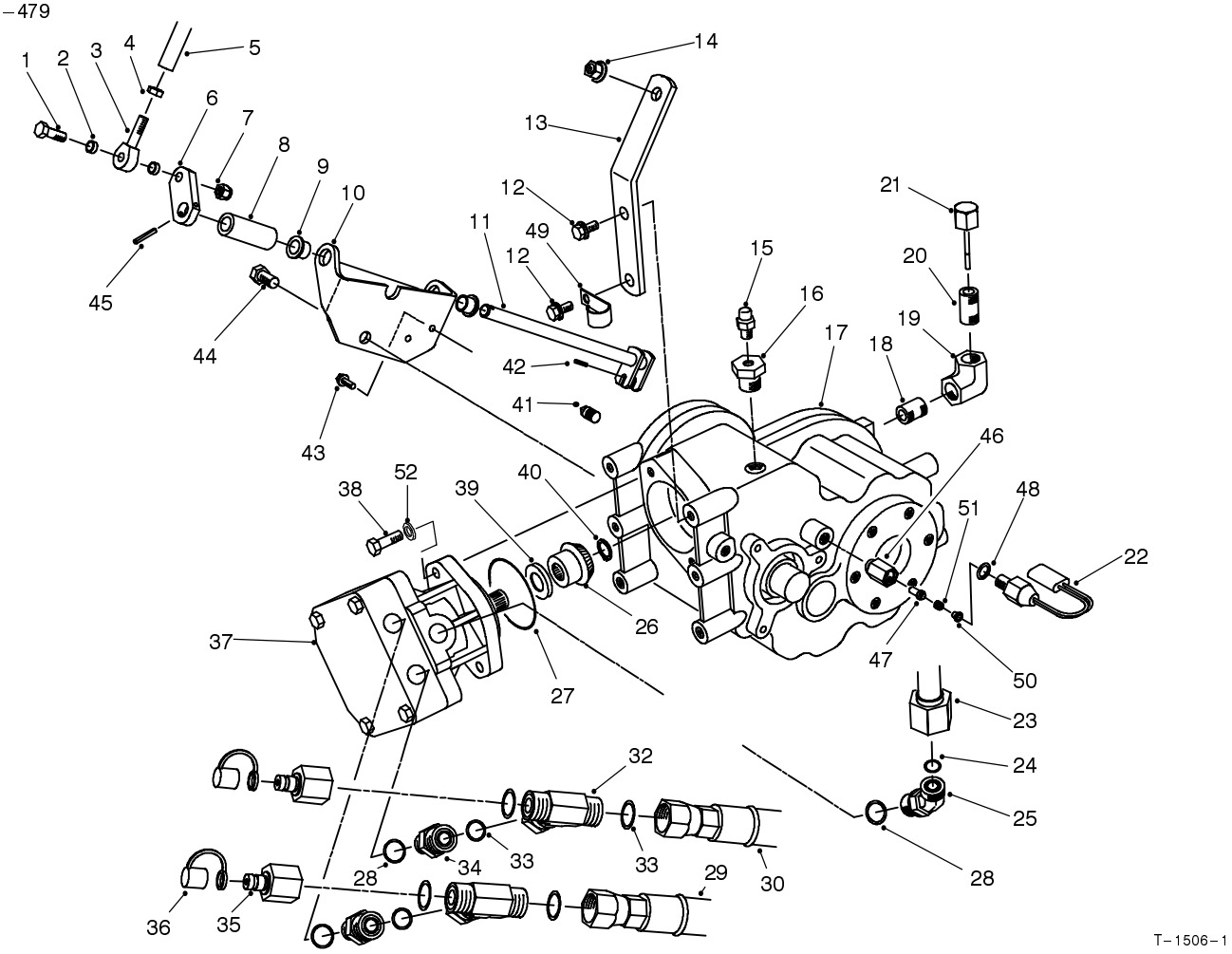
Front Transaxle Installation Assembly

Ref. No.	Part No.	Description	No. Used
1	323–9	Screw–Cap, HH	1
2	76–9100	Spacer	2
3	2411–36	Rod–End	1
4	3220–3	Nut–Jam	1
5	84–0690	Rod–Shift	1
6	77–4260	Link–Shift	1
7	3296–59	Nut–Lock	1
8	86–5420	Spacer–Rod, Shift	1
9	3–1506	Bushing–Flange	2
10	84–1610–03	Support–Rod, Shift	1
11	84–0700	Rod–Shift	1
12	3234–12	Screw–HHF	2
13	84–1600	Bracket–Support, Transaxle	1
14	3290–357	Nut–Head, Flange	1
15	302–14	Plug–Vent	1
16	2812–11	Bushing–Reducer	1
17	99–7566	Transaxle–2 Speed (Incl. Ref. #26 & 41)	1
18	289–50	Nipple–Pipe	1
19	2813–14	Elbow–Pipe 90°	1
20	289–44	Nipple–Pipe	1
21	27–3710	Dipstick	1
22	72–4320	Switch–Ball	1
23	86–5750	Drain Tube Assembly	1
24	237–30	O–Ring	1
25	340–101	Fitting – Hydraulic (Incl. Ref. #24 & 28)	1

Ref. No.	Part No.	Description	No. Used
26		Pinion–Spiral	1
27	237–167	O–Ring	1
28	237–79	O–Ring	3
29	92–5830	LH Traction Hose Assembly	1
30	92–5841	Hose–Traction, RH (2WD)	1
*	92–7765	Tube Assembly (4WD)	1
32	340–167	Fitting–Hydraulic (Incl. Ref. #33)	2
33	237–65	O–Ring	6
34	340–155	Fitting – Hydraulic (Incl. Ref. #28 & 33)	2
35	86–5860	Nipple	2
36	353–947	Cap–Fitting	2
37	92–2556–03	Motor–Displacement, Fixed	1
38	323–7	Screw–Cap, HH	2
39	82–5380	Shim–Pinion .045	1
*	82–5390	Shim–Pinion .038	1
*	82–5400	Shim–Pinion .052	1
40	32151–62	Ring–Retaining	1
41	76–6040	Plug–Pipe (Supplied with transaxle)	1
42	32121–24	Pin–Roll	1
43	3234–4	Screw–Cap, HH	2
44	325–2	Screw–Cap, HH	1
45	32121–6	Pin–Roll	1
46	92–1364	Guide–Switch, Pin	1
47	92–1365	Plunger–Switch	1

*Not Illustrated

3324–479

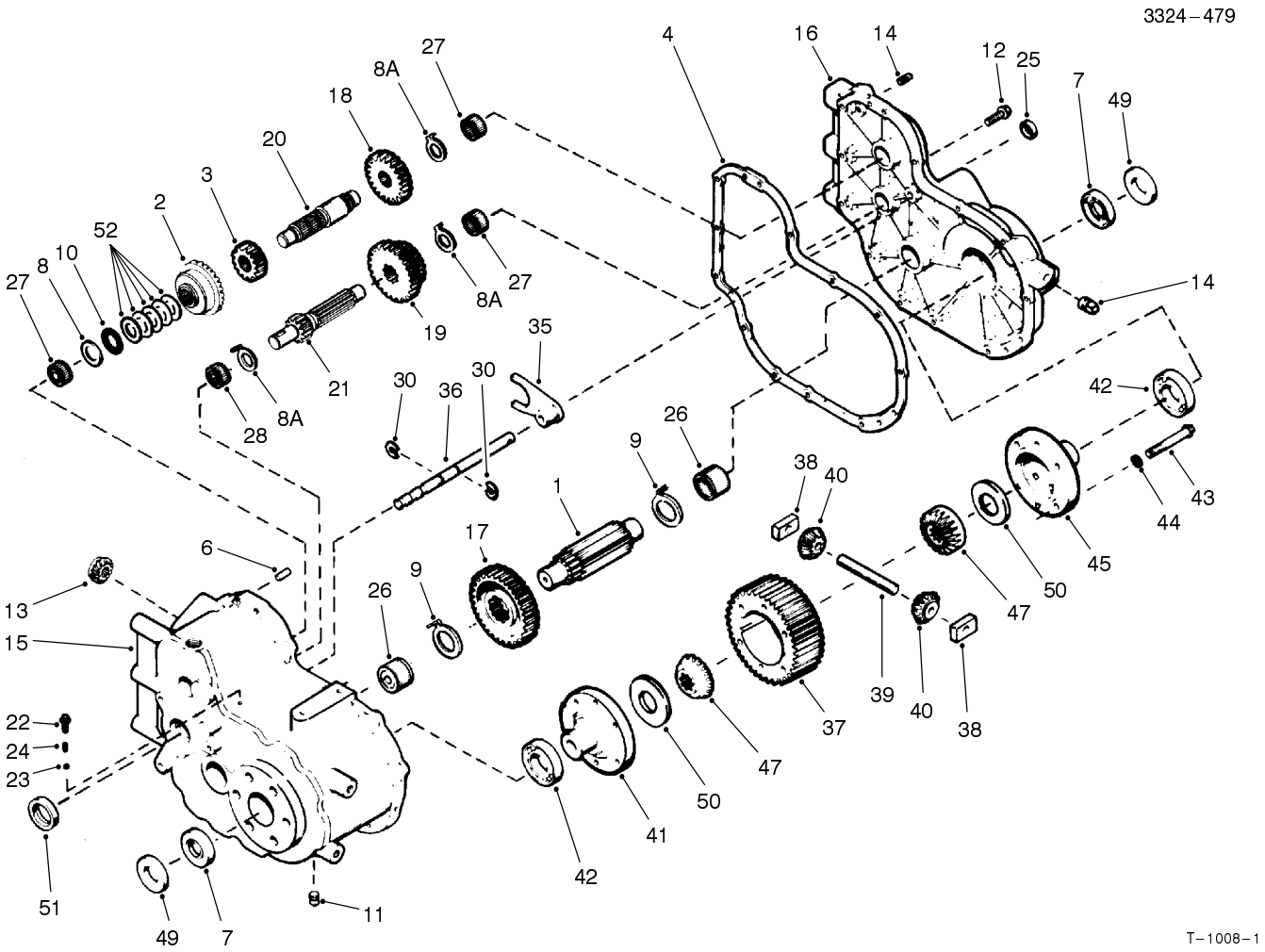


Front Transaxle Installation Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
48	237–42	O–Ring	1
49	2412–150	Clip–J	1
50	43–8610	Guide–Spring & Ball	1

Ref. No.	Part No.	Description	No. Used
51	92–1366	Spring–Compression	1
52	3256–24	Washer–Flat	2

*Not Illustrated

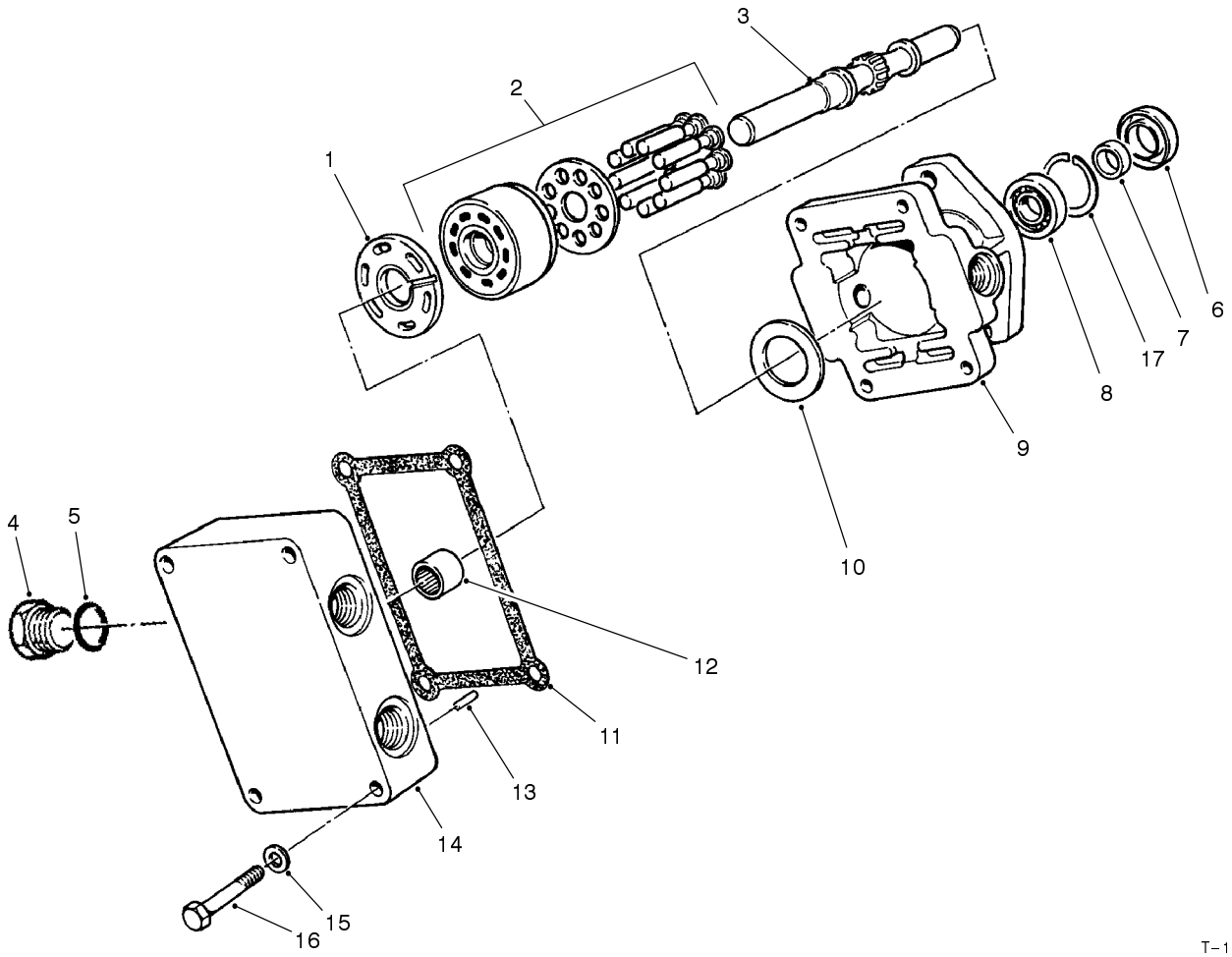


Transaxle Assembly No. 99–7566

Ref. No.	Part No.	Description	No. Used
1	76–5610	Pinion–Output	1
2		Gear–Bevel, Spiral	1
3	76–5630	Gear–Spur	1
4	76–5640	Gasket	1
6	76–5660	Pin–Dowel	2
7	76–5670	Seal–Oil	2
8	76–5680	Washer–Thrust	1
8A	76–5650	Washer–Thrust	3
9	76–5690	Washer–Thrust	2
10	76–5700	Bearing–Thrust	1
11	76–5710	Plug–Drain, Magnetic	1
12	76–5720	Screw–HH	13
13		Pinion–Bevel, Spiral	1
14	76–6040	Plug–Pipe	2
15	92–0639	Case Assembly (Incl. Ref. #26–28)	1
16	76–5760	Cover Assembly (Incl. Ref. #26–27)	1
17	92–0642	Gear–Output	1
18	76–5780	Gear–Spur	1
19	92–0644	Gear–Cluster	1
20	92–0641	Shaft–Counter	1
21	92–0645	Shaft & Gear–Shifter	1
22	76–5820	Screw–HHF	1
23	76–5830	Ball–Steel	1
24	76–5840	Spring–Fork, Shifter	1
25	76–5850	Seal–Oil	1
26	76–5860	Bearing–Needle	2

Ref. No.	Part No.	Description	No. Used
27	76–5870	Bearing–Needle	3
28	92–0640	Bearing–Needle	1
30	76–5890	Ring–Retaining	2
35	76–5900	Fork–Shift	1
36	92–0647	Rod–Shift (High–Low)	1
†37		Gear–Ring	1
†38		Block–Drive	4
†39		Pin–Drive	2
†40		Pinion–Bevel	4
41	76–5960	Carrier (Incl. Ref. #50)	1
42	92–0646	Bearing–Ball	2
43	76–5980	Screw–HHF.	6
44	3253–21	Washer–Lock	6
45	76–5990	Carrier–Differential	1
†47		Gear–Bevel	2
49	76–6010	Spacer	2
†50		Washer–Thrust	2
51	76–6030	Seal–Oil	1
52	76–5680	Shim–Orange .126/.123	A/R
*	76–5740	Shim–Lt. Grn. .123/.120	A/R
*	84–0090	Shim–Lt. Blue .120/.117	A/R
*	84–0130	Shim–Pink .129/.126	A/R
*	84–0140	Shim–Black .132/.129	A/R
*	84–0080	Set–Gear, Spiral (Matched) (Incl. Ref. #2 & 13)	1
*	99–7567	Differential Assembly (Incl. Ref. #37–47 & 50)	1

*Not Illustrated
†Not Serviced Separately

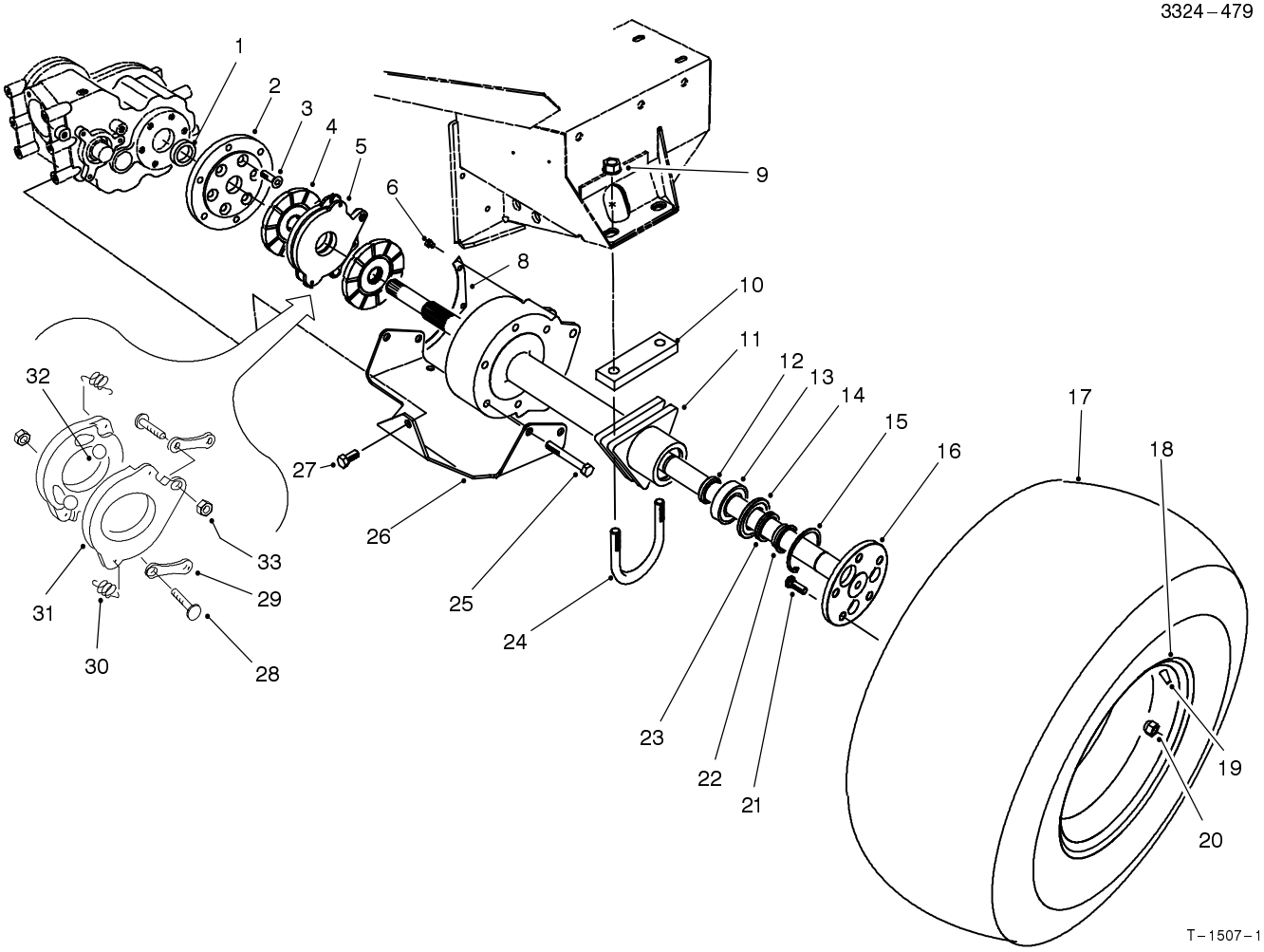


T–1493–1

Hydraulic Motor No. 92–2556–03

Ref. No.	Part No.	Description	No. Used
1	28–3380	Plate–Valve	1
2	48–1800	Kit–Block, Cylinder	1
3	92–0636	Shaft Assembly (Incl. Ref. #7 & 8)	1
4	92–2571	Plug	2
5	237–65	Seal–O–Ring	2
6	74–9480	Seal–Lip	1
7		Sleeve	1
8		Bearing–Roller	1
9	82–4990	Housing–Fixed	1

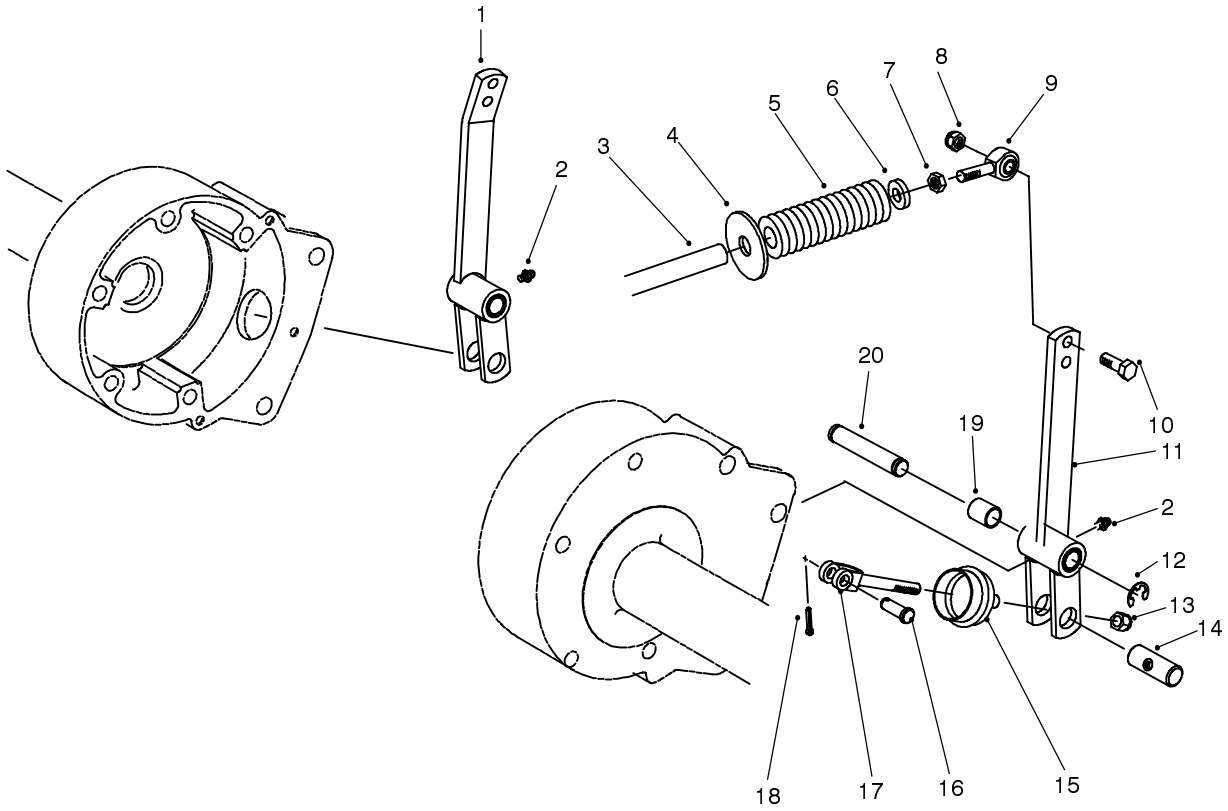
Ref. No.	Part No.	Description	No. Used
10	25–2380	Plate–Thrust	1
11	67–9100	Gasket	1
12	77–3640	Bearing	1
13	25–2430	Pin–Straight	1
14	92–2572	End Cap Assembly (Incl. Ref. #12)	1
15	74–9510	Washer–Flat	1
16	74–9500	Screw–Cap, HH	4
17	82–4970	Ring–Retaining	1



Front Axle Assembly

Ref. No.	Part No.	Description	No. Used
1	76–6010	Spacer–Transaxle (Supplied with transaxle)	2
2	76–4240–03	Plate–Adapter	2
3	3274–87	Screw–Socket, FH	12
4	74–3640	Disc–Brake	4
5	74–3630	Actuator–Brake (Incl. Ref. #28–33)	2
6	3234–30	Screw–HHF	6
8	76–8300–03	Cover–Housing, Axle	2
9	32128–50	Nut–Lock, Flange Head	4
10	84–1620–03	Plate–Support, Axle	2
11	92–9704–03	Housing–Axle	2
12	92–9708	Collar–Bearing	2
13	92–9710	Bearing–Ball	2
14	92–9709	Spacer–Bearing	2
15	32151–76	Ring–Retaining	2
16	92–9714	Axle Assembly (Incl. Ref. #12–15 & 21–23)	2

Ref. No.	Part No.	Description	No. Used
17	86–5900	Tire	2
18	86–2810	Wheel	2
19	232–27	Stem–Valve	2
20	23–7270	Nut–Wheel	10
21	242–34	Stud–Axle	10
22	92–9706	Spacer–Shaft, Axle	2
23	92–9712	Seal–V–Ring	2
24	84–1590	U–Bolt	2
25	325–15	Screw–Cap, HH	10
26	86–5430–03	Plate–Skid	1
27	325–4	Screw–Cap, HH	1
28	92–7774	Stud	4
29	92–7775	Link	4
30	92–7776	Spring–Extension	4
31	92–7777	Disc–Actuating	4
32	92–7773	Ball	6
33	69–9940	Nut–Jam	4

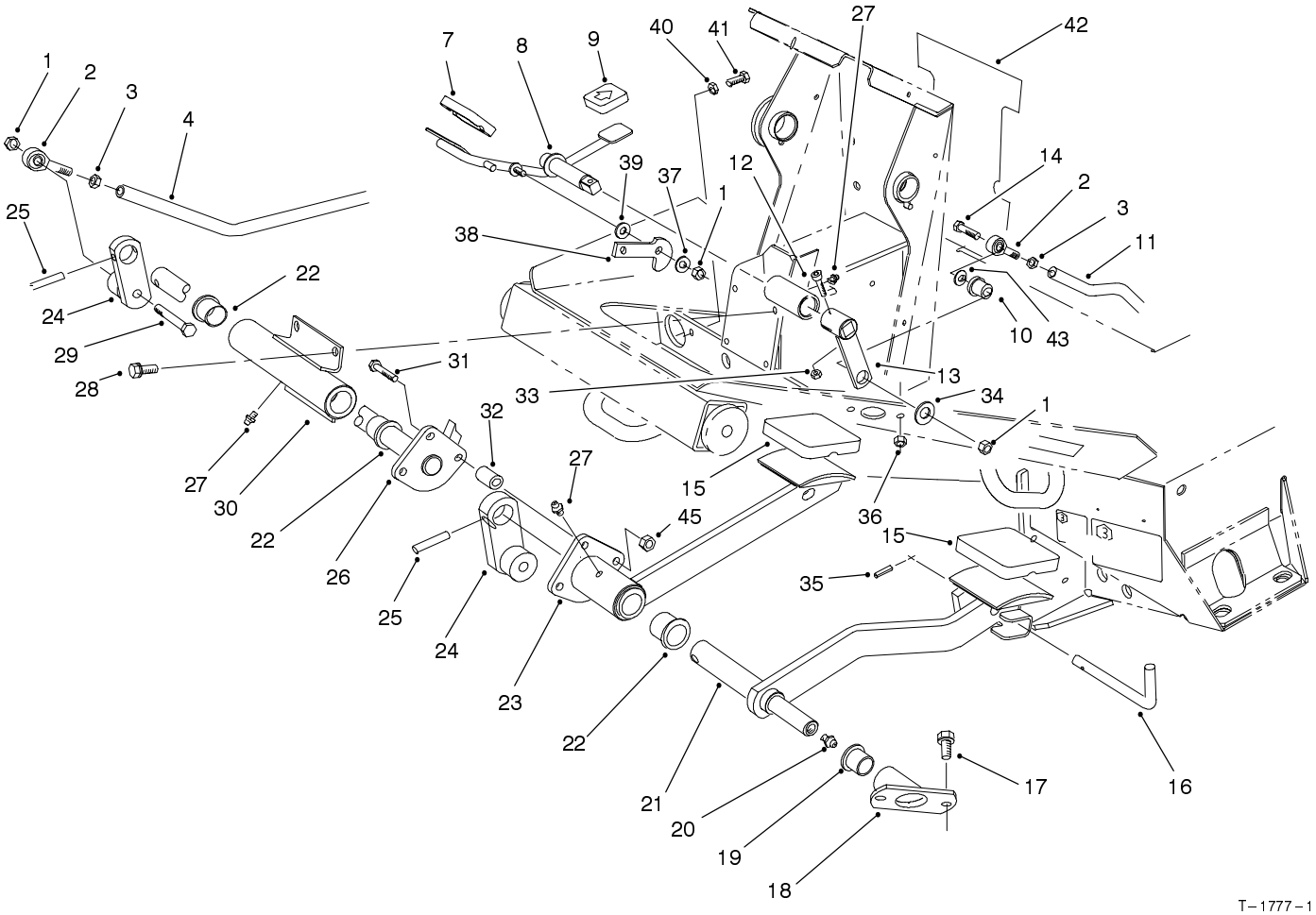


T–1491–1

Brake Linkage Assembly

Ref. No.	Part No.	Description	No. Used
1	84–0940	RH Brake Linkage Arm Assembly (Incl. Ref. #2 & 19)	1
2	302–5	Fitting–Grease	2
3	76–9690–03	Rod–Brake	2
4	86–5840	Plate–Spring	2
5	86–5830	Spring–Compression	2
6	66–6480	Washer	2
7	3220–3	Nut–Jam	2
8	3296–59	Nut–Lock	2
9	2411–36	End–Rod	2
10	323–7	Screw–Cap, HH	2

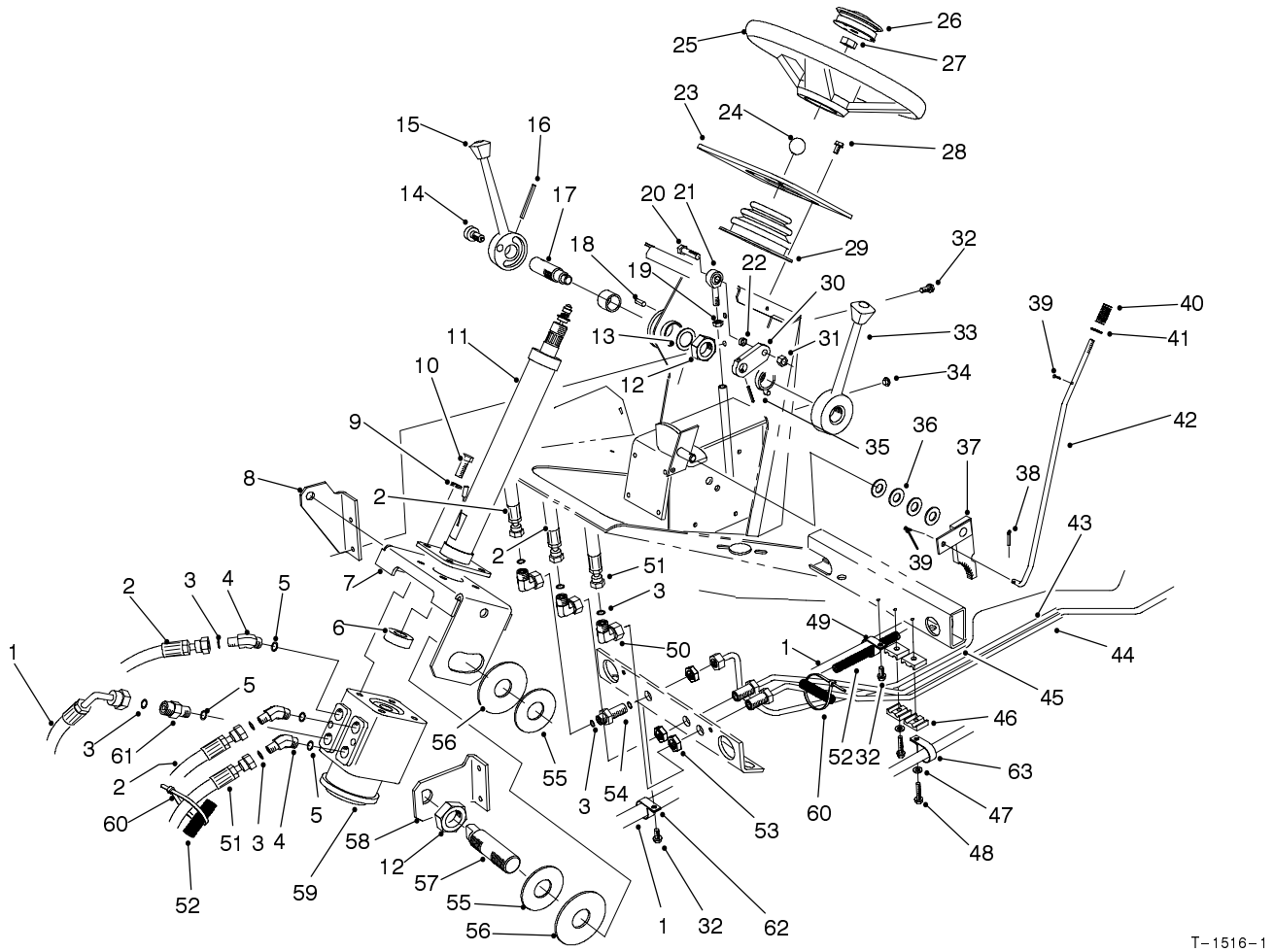
Ref. No.	Part No.	Description	No. Used
11	84–0970	LH Brake Linkage Arm Assembly (Incl. Ref. #2 & 19)	1
12	32120–19	Ring–Retaining, Ext.	4
13	3296–39	Nut–Lock	2
14	76–8270	Pin–Brake	2
15	76–4180	Boot–Rod, Brake	2
16	283–2	Pin–Clevis	2
17	76–6610	Clevis–Brake	2
18	3272–6	Pin–Cotter	2
19	5–2512	Bushing–Sleeve	2
20	84–0990	Pin–Pivot	2



T–1777–1

Traction and Brake Pedals Assembly

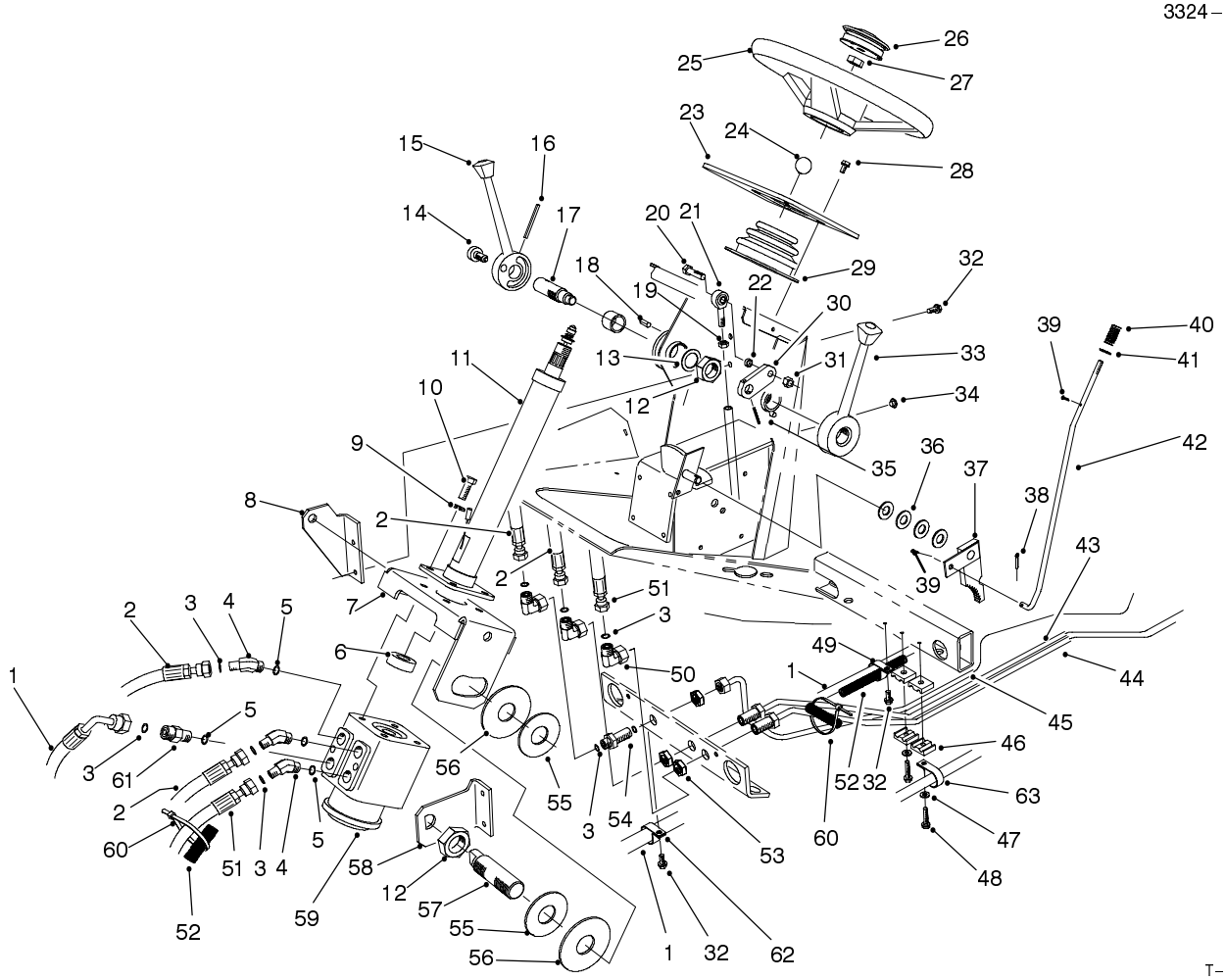
Ref. No.	Part No.	Description	No. Used
1	3296–59	Nut–Lock	4
2	2411–36	Eye–Rod	3
3	3220–3	Nut–Jam	3
4	76–9690–03	Rod–Linkage, Brake	2
7	74–9100	Pad–Pedal, Forward	1
8	82–5190–03	Shaft–Pedal, Traction	1
9	74–9110	Pad–Pedal, Reverse	1
10	63–9751	Mount–Rod, Linkage	1
11	88–1160–03	Rod–Linkage, Traction	1
12	3274–19	Screw–Cap, Socket Head	1
13	92–1367	Arm–Linkage, Traction	1
14	323–9	Screw–Cap, HH	1
15	82–4960	Pad–Brake	2
16	63–7880	Latch–Brake	1
17	3234–14	Screw–HHF	2
18	76–9680	Bearing Housing Assembly (Incl. Ref. #19)	1
19	256–90	Bushing–Flange	1
20	302–2	Fitting–Grease	1
21	92–5804–01	Pedal–Brake, LH	1
22	256–10	Bushing–Flange	4
23	92–5805	RH Brake Pedal Assembly (Incl. Ref. #22 & 27)	1
24	92–2586–01	Arm–Linkage, Brake	2
25	32121–25	Pin–Roll	2
26	92–5806–01	Shaft–Brake	1
27	302–5	Fitting–Grease	3
28	32144–11	Screw–HHF	4
29	323–12	Screw–Cap, HH	2
30	76–9030	Bearing Housing Assembly (Incl. Ref. #22 & 27)	1
31	322–21	Screw–Cap, HH	3
32	66–1140	Hub	3
33	3296–42	Nut–Lock	1
34	63–8410	Washer	1
35	32121–50	Pin–Roll	1
36	32128–20	Nut–Lock	2
37	3256–24	Washer–Flat	1
38	74–6110	Stop–Pedal	1
39	66–2920	Washer–Nylon	1
40	3218–2	Nut–Jam	2
41	322–4	Screw–Cap, HH	2
42	84–1470	Decal–Operation	1
43	3256–3	Washer–Flat	1
45	32152–1	Nut–Lock	3



Steering Tower Assembly

Ref. No.	Part No.	Description	No. Used
1	86–5570	Hose Assembly	1
2	86–3220	Hose Assembly	2
3	237–22	O–Ring	9
4	340–138	Fitting–Hydraulic (Incl. Ref. #3 & 5)	3
5	237–79	O–Ring	4
6	21–9260	Cover–Dust	1
7	76–8140–03	Bracket–Steering	1
8	76–8160–03	Support–Steering	1
9	3253–21	Washer–Lock	4
10	323–6	Screw–Cap, HH	4
11	74–3670	Steering Column Assembly	1
12	3296–49	Nut–Lock	2
13	10–8110	Washer–Thrust	1
14	82–4950	Plunger–Spring	1
15	74–5770–03	Lever–Shift	1
16	32121–10	Pin–Roll	1
17	74–5790	Shaft–Pivot	1
18	32121–123	Pin–Roll	2
19	3220–3	Nut–Jam	1
20	323–8	Screw–Cap, HH	1
21	2411–36	End–Rod	1
22	76–9100	Spacer	1
23	93–9415	Panel–Tower	1
24	233–17	Knob	1
25	68–8080	Wheel–Steering	1

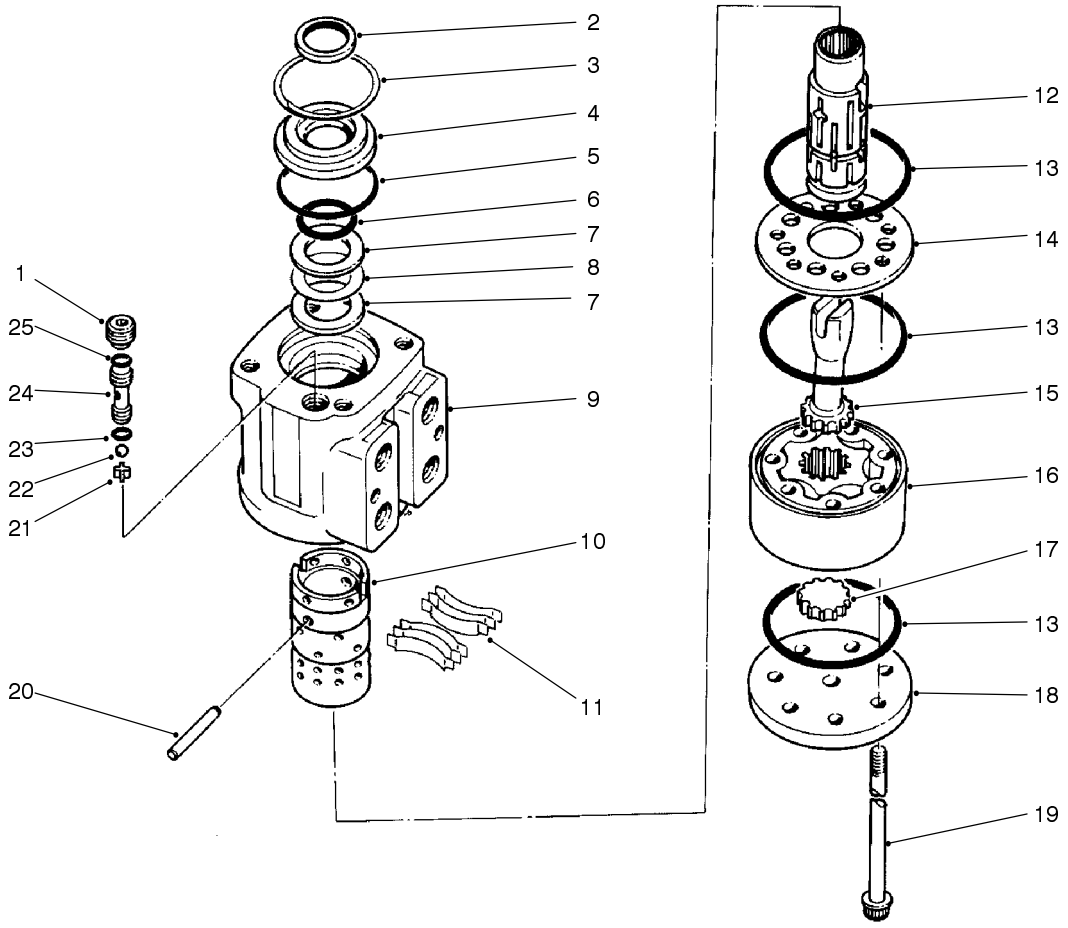
Ref. No.	Part No.	Description	No. Used
26	72–0130	Kit–Horn	1
27	47–6990	Nut	1
28	32144–4	Screw–HWH	4
29	76–9450	Boot–Column, Steering	1
30	84–0680	Link–Shift	1
31	3296–59	Nut–Lock	1
32	32144–11	Screw–HWH	6
33	69–1560–03	Lever–Lock	1
34	2410–64	Plug–Dome	2
35	32121–6	Pin–Roll	1
36	3256–26	Washer–Flat	4
37	63–7900–03	Rack–Brake	1
38	3272–10	Pin–Cotter	1
39	3272–5	Pin–Cotter	2
40	95–1821–03	Spring	1
41	3256–22	Washer–Flat	1
42	76–9050	Rod–Brake, Parking	1
43	86–5730	RH Front Tube Assembly	1
44	86–5740	LH Front Tube Assembly	1
45	94–8299	Steering Tube Assembly	1
46	56–7973	Clamp–Tube	4
47	3256–71	Washer–Flat	2
48	32144–57	Screw–HWH	2
49	2412–74	R–Clamp	1
50	340–159	Fitting–Hydraulic (Incl. Ref. #3)	3



Steering Tower Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
51	86–3210	Hose Assembly	1
52	86–5470	Harness–Wire	1
53	340–70	Nut–Bulkhead	3
54	340–71	Union–Bulkhead (Incl. Ref. #3)	1
55	20–9500	Washer	2
56	31–0390	Washer–Friction	2
57	76–8340	Shaft–Pivot, Steering	1

Ref. No.	Part No.	Description	No. Used
58	76–8150–03	Support–Shaft, Steering	1
59	92–9729	Valve–Control, Steering	1
60	3290–378	Tie–Cable	2
61	59–6430	Valve–Check (Incl. Ref. #3 & 5)	1
62	2412–104	R–Clamp	1
63	2412–74	R–Clamp (Model 30450 Only)	1



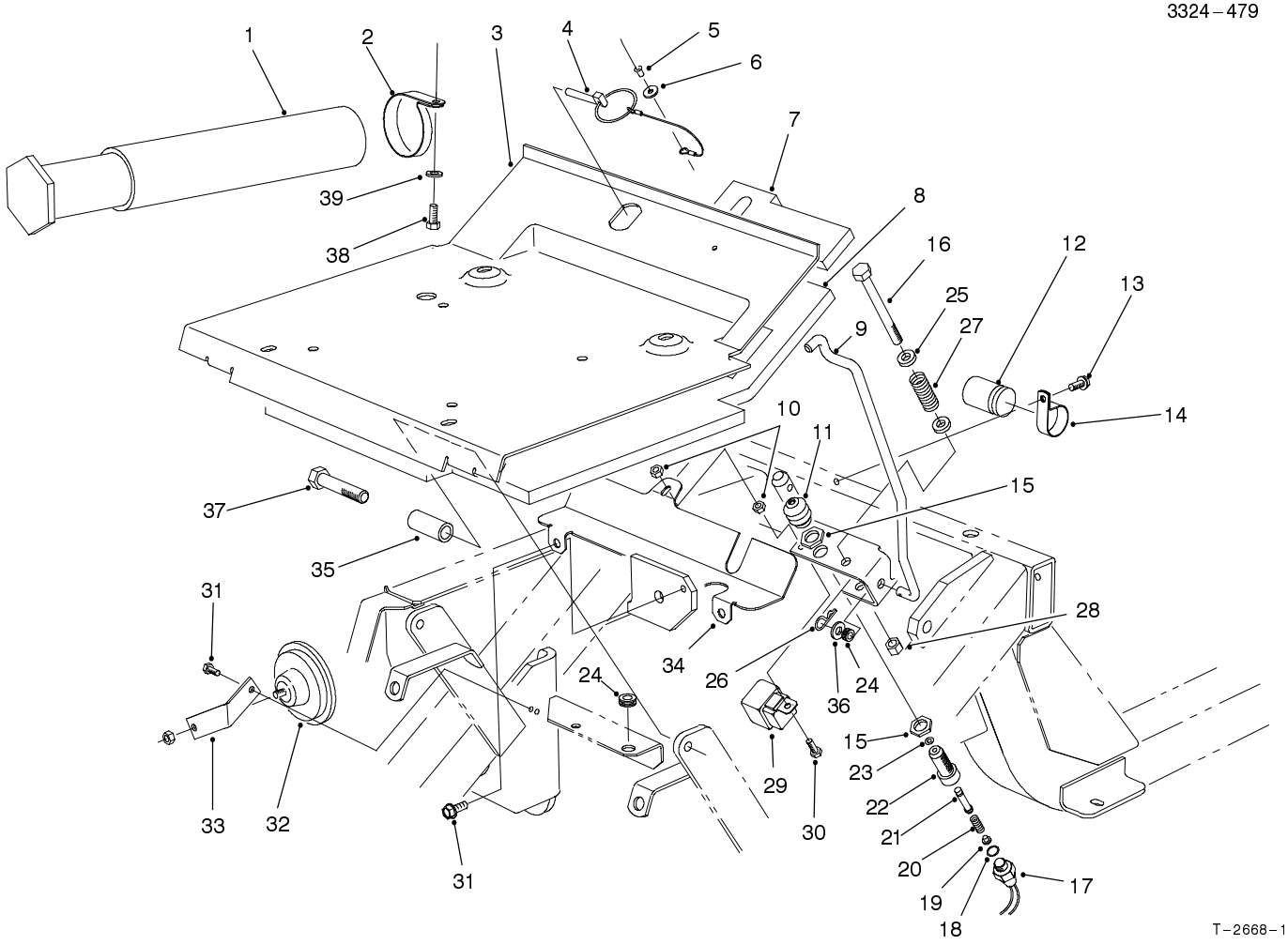
T–1007–1

Power Steering Valve No. 92–9729

Ref. No.	Part No.	Description	No. Used
1	52–9260	Screw–Set	1
†2		Seal–Dust	1
3	52–9230	Ring–Retaining	1
4	52–9240	Bushing–Seal, Gland	1
†5		Seal	1
†6		Seal–Ring, Quad	1
7	59–6730	Race–Bearing	2
8	59–6740	Bearing–Needle, Thrust	1
†9		Housing	1
†10		Sleeve–Control	1
11	59–6820	Kit– Spring, Centering	1
†12		Spool–Control	1
†13		Seal	3
14	92–9732	Plate–Wear	1
15	52–9320	Drive	1
16	76–6300	Gerotor	1

Ref. No.	Part No.	Description	No. Used
17	76–6320	Spacer	1
18	92–9730	Cap–End	1
19	92–9736	Screw–Cap	7
20	59–6830	Kit–Pin, Centering	1
21	52–9290	Retainer–Ball, Check	1
22	52–9280	Ball–Check	1
†23		Seal	1
24	52–9270	Seat–Ball, Check	1
†25		Seal	1
*	52–9250	Kit–Bearing, Needle (Incl. Ref. #7–8)	1
*	92–9749	Kit–Seal (Incl. Ref. #2, 5–6, 13, 23 & 25)	1
*	92–9745	Kit–Cap, End (Incl. Ref. #14, 18 & 19)	1

*Not Illustrated
†Not Serviceable Separately

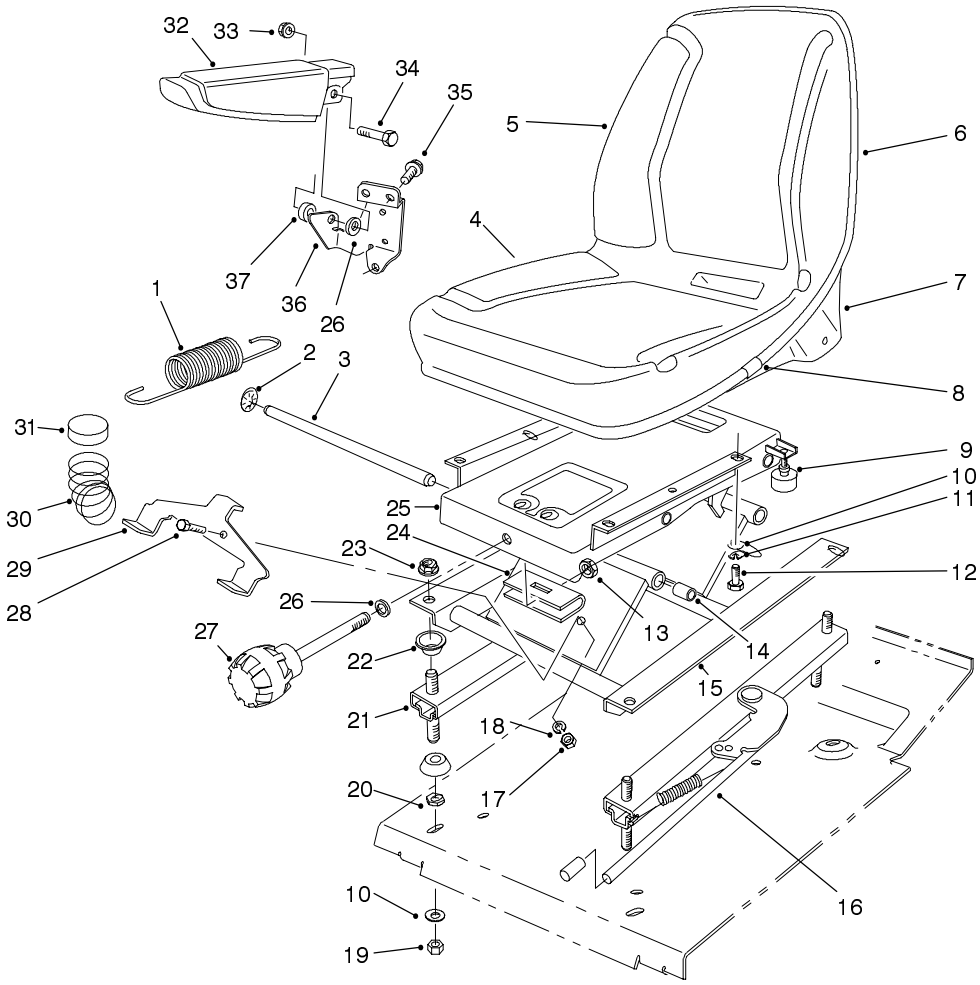


Seat Plate Assembly

Ref. No.	Part No.	Description	No. Used
1	74–0720	Tube–Manual	1
2	2412–133	R–Clamp	2
3	76–9460–03	Plate–Seat	1
4	77–3780	Pin–Lynch	1
5	3290–282	Rivet–Pop	1
6	3256–49	Washer–Flat	1
7	76–9930	Foam–Seat Plate, Rear	1
8	82–4900	Foam–Front, Seat	1
9	76–9440	Rod–Prop, Seat	1
10	32128–33	Nut–Lock	2
11	43–8870	Boot–Switch	1
12	37–2690	Capacitor	1
13	32104–82	Screw–HWH	1
14	2412–74	Clamp	1
15	218–461	Nut–Hex	2
16	323–17	Screw–HH	1
17	72–4320	Switch–Ball	1
18	237–30	O–Ring	1
19	43–8610	Guide	1
20	43–8600	Spring–Switch	1
21	43–8860	Plunger–Switch	1

Ref. No.	Part No.	Description	No. Used
22	43–8620	Guide–Pin, Switch	1
23	237–7	O–Ring	1
24	237–136	Grommet	2
25	80–7730	Spacer	2
26	3290–307	Pin–Cotter, Hair	1
27	88–1420	Spring–Compression	1
28	3296–39	Nut–Lock	1
29	70–1480	Relay–SPDT	1
30	321–5	Screw–Cap, HH	1
31	32144–11	Screw–HWH	3
32	48–4590	Horn	1
33	74–8910	Bracket–Horn	1
34	86–2860–03	Cover–Belt, Upper	1
35	76–9480	Sleeve–Pivot, Seal	2
36	3256–24	Washer–Flat	1
37	325–9	Screw–Cap, HH	2
38	322–2	Screw–Cap, HH	2
39	3256–23	Washer–Flat	2
*	43–9071	Seat Switch Assembly (Incl. Ref. #11, 15, & 17–23)	1

*Not Illustrated



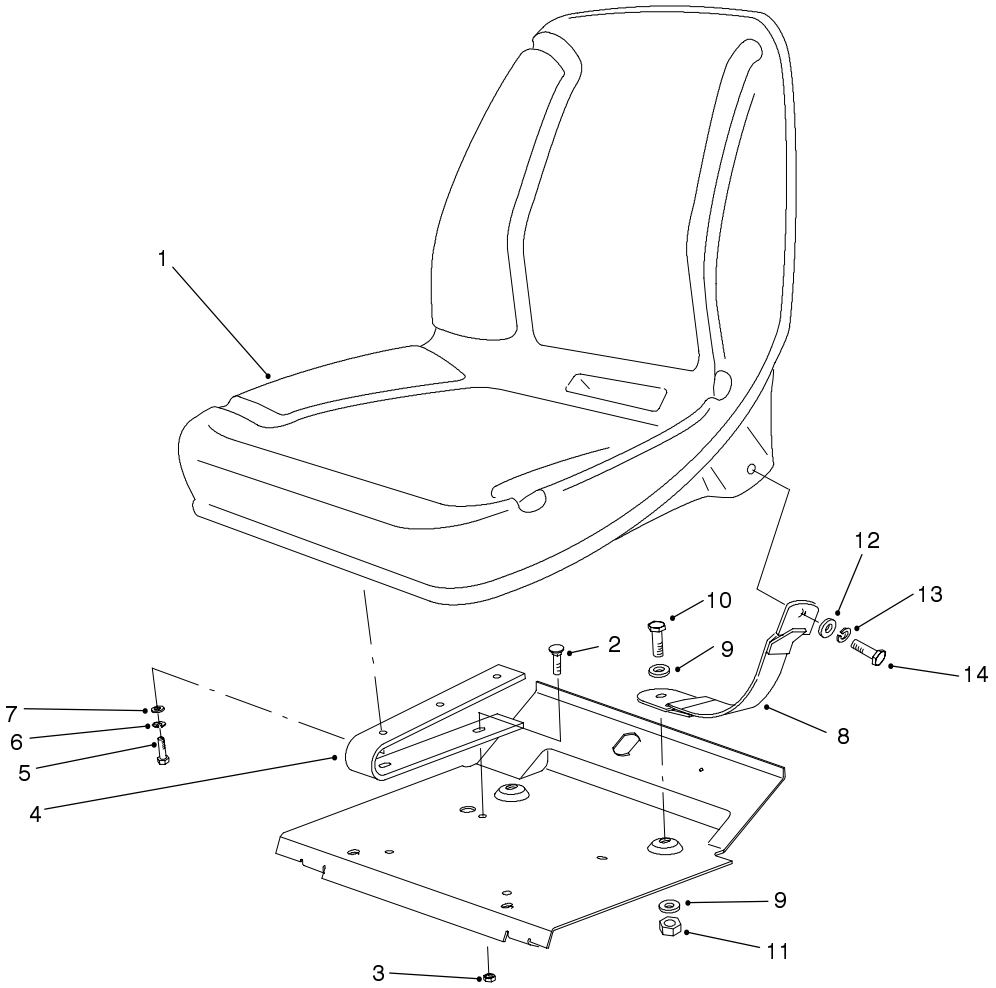
T–2244–4

Seat Assembly

Ref. No.	Part No.	Description	No. Used
1	76–1940	Spring–Extension	2
2	66–8560	Nut–Push	4
3	76–1910	Shaft–Pivot	2
4	92–6533	Seat Cushion Assembly (Incl. Ref. #8)	1
5	92–1180	Seat Assembly (Incl. Ref. #4 & 6–8)	1
6	351–78	Edging–Seat	1
7	92–6534	Shell–Seat	1
8	351–80	Clip–Edging	1
9	76–2940	Bumper	2
10	3256–2	Washer–Flat	8
11	3253–4	Washer–Lock	4
12	322–3	Screw–Cap, HH	4
13	32153–2	Nut–Lock	1
14	76–1920	Bearing–Sleeve	4
15	66–8610	Frame–Lower	1
16	66–8510	Adjuster & Handle	1
17	3217–6	Nut–Hex	1
18	3253–33	Washer–Lock	1

Ref. No.	Part No.	Description	No. Used
19	3296–29	Nut–Lock	4
20	3218–2	Nut–Jam	4
21	66–8530	Adjuster	1
22	66–9290	Spacer–Suspension	8
23	32128–25	Nut–Lock, Flange	4
24	77–2870	Hanger–Spring	1
25	66–8600	Frame–Upper	1
26	3256–24	Washer–Flat	3
27	76–1930	Knob–Adjustment	1
28	322–6	Screw–Cap, HH	1
29	93–3165	Bracket–Spring	1
30	93–3163	Spring–Compression	2
31	93–3164	Cup–Spring	2
32	69–1180	Armrest	2
33	32128–19	Nut–Lock, Flange	2
34	323–9	Screw–Cap, HH	2
35	3234–14	Screw–HHF	6
36	69–0770	Bracket–Armrest, RH	1
*	69–0760	Bracket–Armrest, LH	1
37	92–7301	Spacer	2

*Not Illustrated

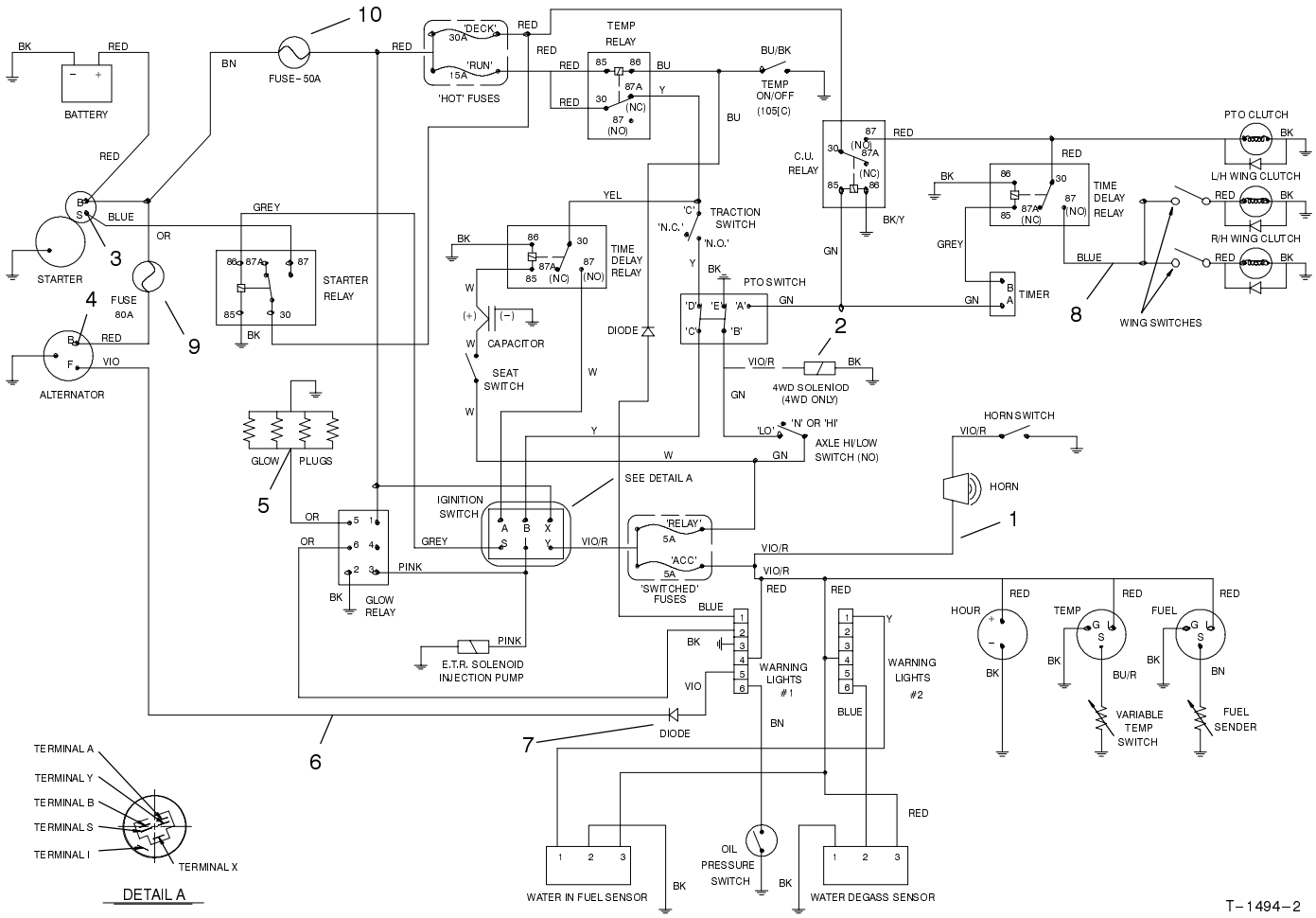


T – 2245 – 1

Low Seat Assembly (Optional)

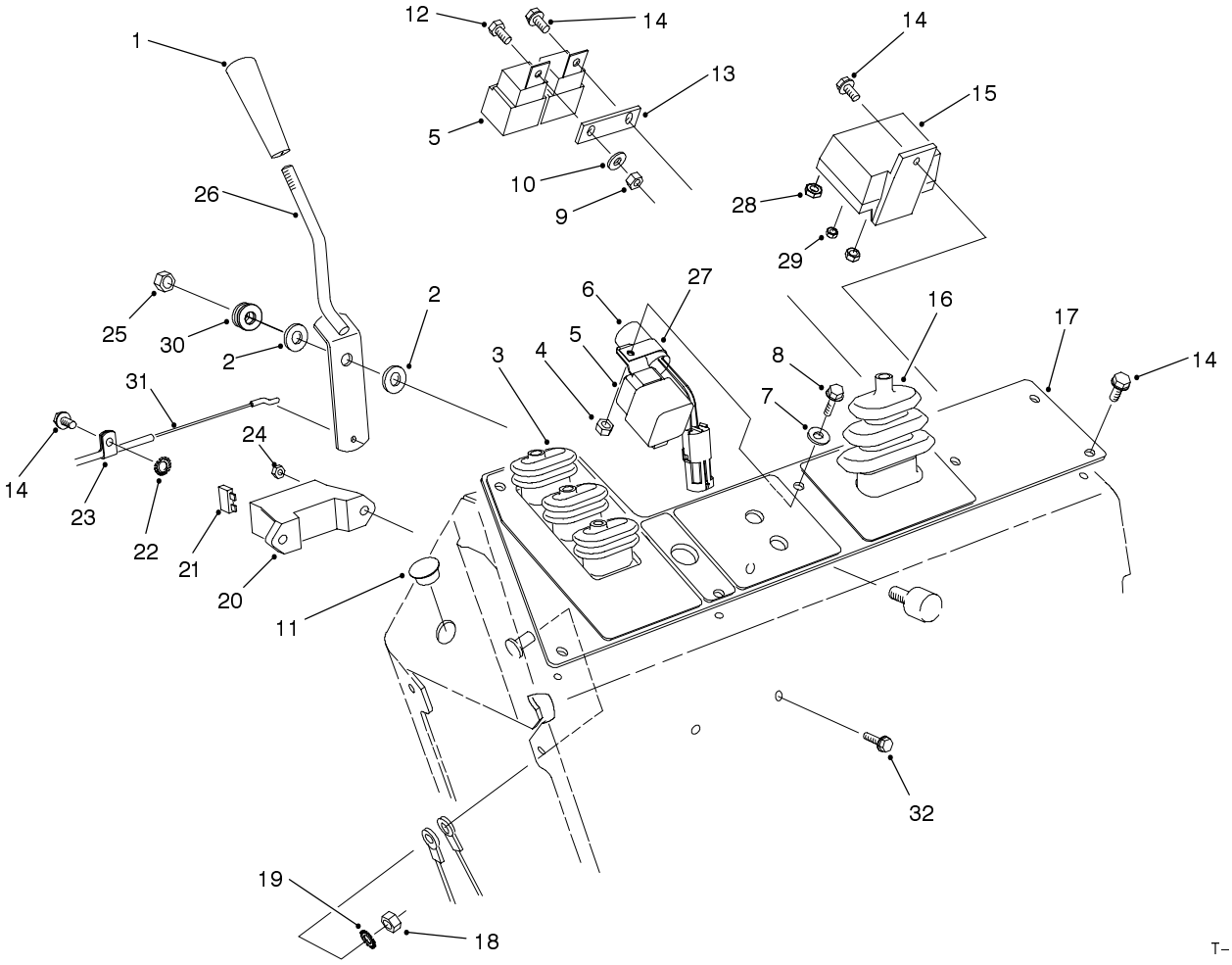
Ref. No.	Part No.	Description	No. Used
1	92 – 1180	Seat Assembly	1
2	3230 – 16	Bolt – Carriage	4
3	3296 – 29	Nut – Lock	4
4	68 – 3280	Spring – Seat	2
5	322 – 4	Screw – Cap, HH	4
6	3253 – 4	Washer – Lock	4
7	3256 – 2	Washer	4

Ref. No.	Part No.	Description	No. Used
8	92 – 5521	Strap – Tether	2
9	3256 – 24	Washer	4
10	323 – 6	Screw – Cap, HH	2
11	3296 – 39	Nut – Lock	2
12	3256 – 5	Washer – Flat	2
13	3253 – 6	Washer – Lock	2
14	3212 – 5	Screw – Cap, HH	2



Electrical Schematic

Ref. No.	Part No.	Description	No. Used
1	86–5470	Harness–Front	1
2	76–4880	Plug – Electrical (Model No. 30450 Only)	1
3	48–7930	Nut–Hex	1
4	48–7890	Nut–Hex.	1
5	48–7880	Nut–Hex	2
6	100–8035	Harness–Wire, Main (Incl. Ref. #7)	1
7	86–7470	Diode	4
8	95–4375	Harness–Wire, Deck	1
9	94–8001	Fuse–Blade, 80 Amp	1
10	94–8002	Fuse–Blade, 50 Amp	1



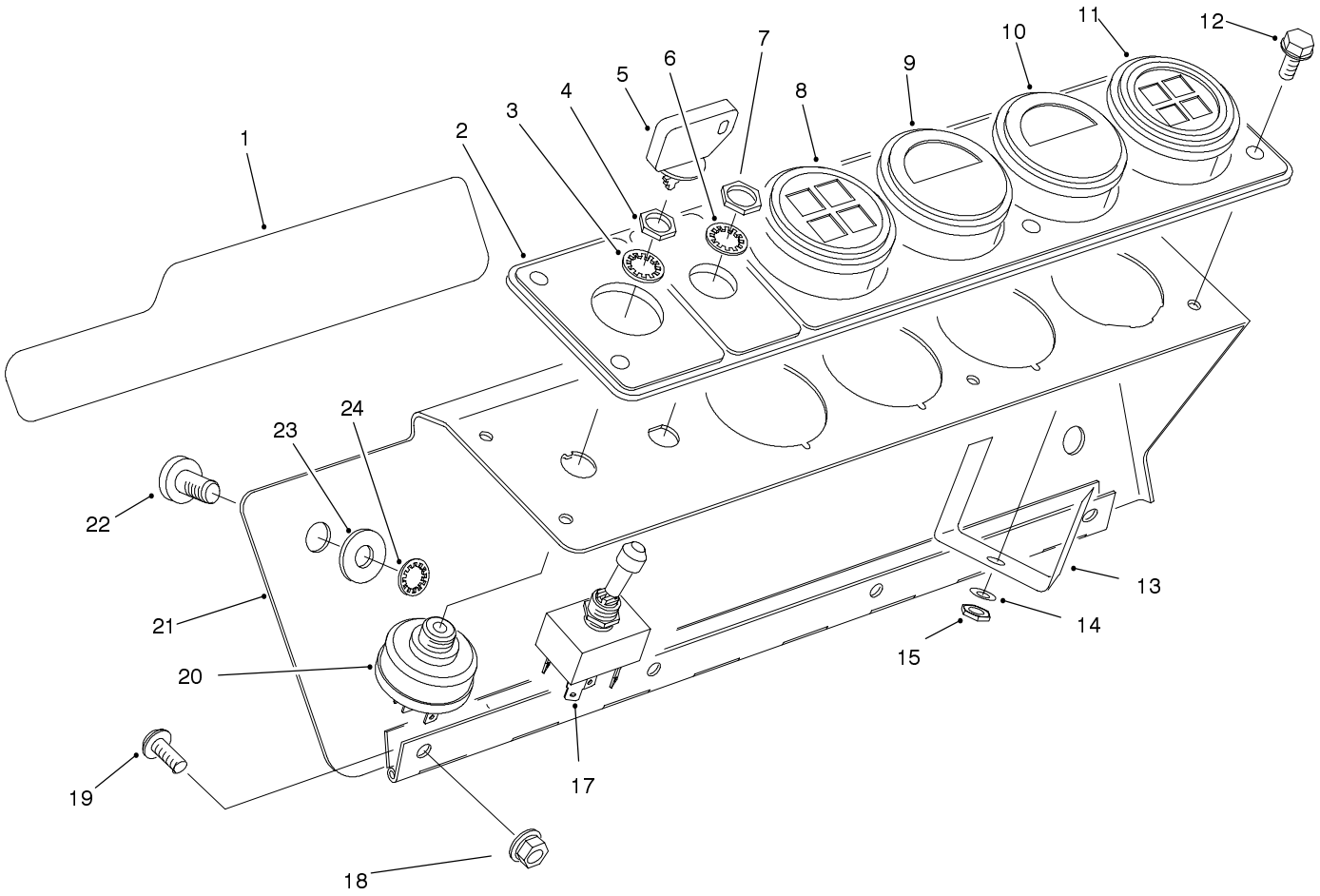
T – 1492 – 1

Control Console Assembly

Ref. No.	Part No.	Description	No. Used
1	233–39	Knob–Throttle	1
2	52–2900	Washer–Friction	2
3	76–8450	Boot–Lever, Lift	1
4	32128–33	Nut–Lock	1
5	70–1480	Relay–Sealed	3
6	83–2280	Timer–Delay	1
7	3256–77	Washer–Flat	1
8	32144–86	Screw–HWH	1
9	3296–42	Nut–Lock	2
10	3256–78	Washer–Flat	1
11	94–5627	Plug	1
12	321–2	Screw–Cap, HH	1
13	77–3970	Spacer–Relay	1
14	32144–4	Screw–HWH	10
15	76–5260	Relay–Plug, Glow	1
16	76–8440	Boot–Throttle	1
17	86–5410	Panel–Console	1
18	3296–47	Nut–Lock	1

Ref. No.	Part No.	Description	No. Used
19	3255–8	Washer–Lock, Ext. Tooth	1
20	67–7160	Holder–Fuse	1
21	218–573	Fuse–5A	2
21	218–581	Fuse–15A	1
*	218–593	Fuse–30A	1
22	3255–7	Washer–Lock, Ext. Tooth	1
23	2412–31	Clip–Conduit	1
24	3296–12	Nut–Lock	2
25	3296–44	Nut–Lock	1
26	76–4300	Lever–Throttle	1
27	2412–39	R–Clamp	1
28	48–7880	Nut–Hex	1
29	48–7890	Nut	1
30	3256–35	Washer	1
31	74–5480	Cable–Throttle	1
32	3290–126	Screw–HWH	2

*Not Illustrated



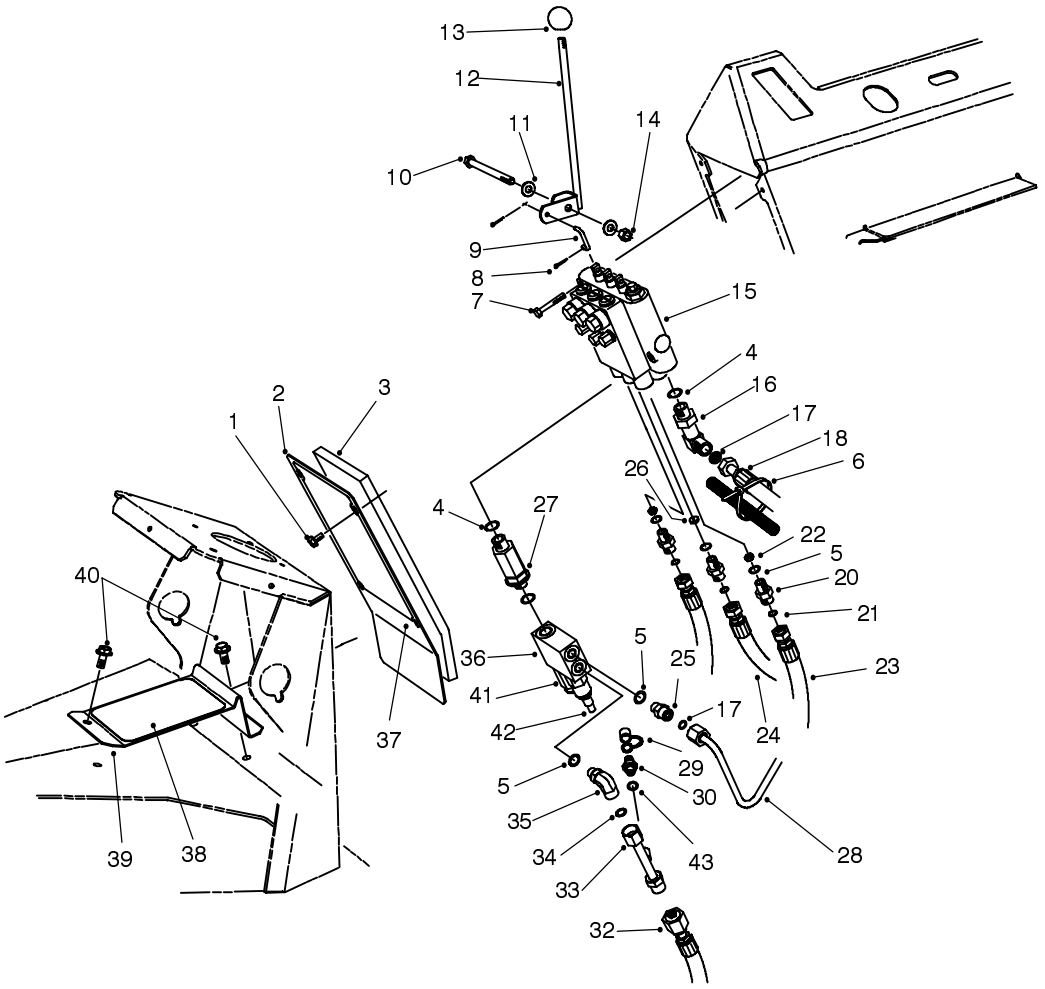
T–2669–1

Gage Panel Assembly

Ref. No.	Part No.	Description	No. Used
1	92–6564	Decal–4 Matic (Model 30455 Only)	1
2	84–1450	Panel–Gauge	1
3	218–446	Washer–Lock	1
4	218–447	Nut–Hex	1
5	63–8360	Key–Ignition	1
6	3254–20	Washer–Lock, Int. Tooth	1
7	3218–19	Nut–Hex	2
8	93–7483	Light–Bank, Warning (Incl. Ref. #13–16 & 25)	1
9	76–9060	Gauge–Temperature	1
10	66–2940	Gauge–Fuel	1
11	93–7484	Light–Bank, Warning (Incl. Ref. #13–16 & 25)	1
12	32144–4	Screw–HWH	6

Ref. No.	Part No.	Description	No. Used
13		Clamp	2
14	3254–1	Washer–Lock	2
15	3217–26	Nut	2
*16	219–17	Bulb	4
17	85–4980	Switch–Toggle (Incl. Ref. #6–7)	1
18	32128–33	Nut–Lock, Flange	4
19	3274–68	Screw–Socket Button Head	4
20	27–2360	Switch–Ignition (Incl. Ref. #3–4)	1
21	82–3750–03	Cover–Console	1
22	3250–36	Screw	2
23	3256–24	Washer	2
24	32151–72	Retainer–Push–On	2
*25	87–6270	Socket–Light	4

*Not Illustrated



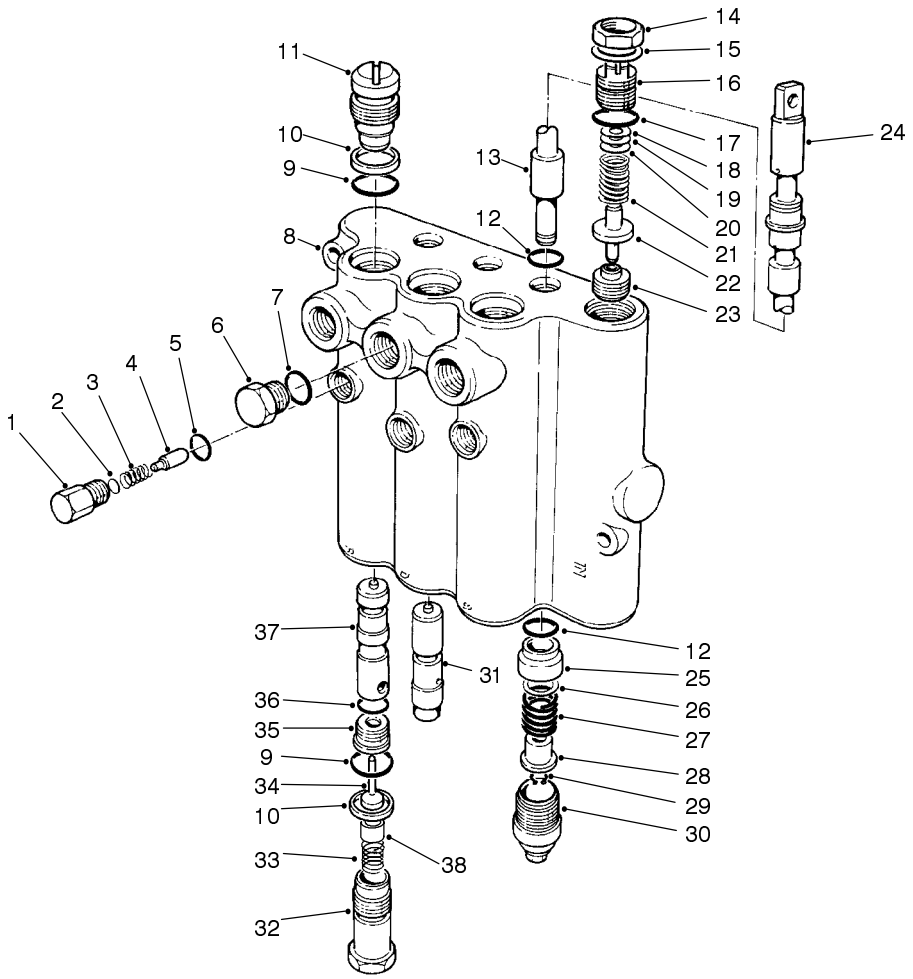
T–1504–1

Lift Valve Installation Assembly

Ref. No.	Part No.	Description	No. Used
1	46–6810	Screw & Washer Assembly	4
2	76–7090–03	Cover–Front, Control	1
3	76–6270	Foam–Panel	1
4	237–79	O–Ring	3
5	237–42	O–Ring	5
6	3290–379	Tie–Cable	1
7	321–10	Screw–Cap, HH	2
8	3272–1	Pin–Cotter	6
9	69–9140	Link–Lever, Valve	3
10	323–17	Screw–Cap, HH	1
11	3256–24	Washer–Flat	2
12	74–6060	Lever–Valve, RH	1
*	74–6050	Lever–Valve, Center	1
*	69–7010	Lever–Valve, LH	1
13	233–42	Knob	3
14	3296–39	Nut–Lock	1
15	92–7762	Lift Valve Assembly	1
16	63–4090	Fitting–Adapter, 90° (Incl. Ref. #4 & 17)	1
17	237–22	O–Ring	2
18	95–4354	Hose Assembly	1
20	88–1380	Fitting–Adapter (Incl. Ref. #5 & 21)	3
21	237–21	O–Ring	3
22	86–2501	Orifice	2
23	86–3190	Hose Assembly	2

Ref. No.	Part No.	Description	No. Used
24	86–3180	Hose Assembly	1
25	340–2	Fitting–Adapter (Incl. Ref. #5 & 17)	1
26	84–6402	Orifice	1
27	74–5910	Fitting–Bulkhead, Special (Incl. Ref. #4)	1
28	86–5770	Relief Valve Tube Assembly	1
29	353–947	Cap–Fitting	1
30	354–77	Fitting–Port, Test (Incl. Ref. #43)	1
32	86–3230	Hose Assembly	1
33	86–5760	Deck Return Tube Assembly	1
34	237–30	O–Ring	1
35	340–99	Fitting–Hydraulic, 90° (Incl. Ref. #5 & 34)	1
36	86–5440	Valve–Relief, Dual (Incl. Ref. #41 & 42)	1
37	93–7243	Decal–Service, 2WD	1
*	93–7242	Decal–Service, 4WD	1
38	76–7040	Pad–Foot	1
39	82–5300–03	Support–Heel	1
40	32144–11	Screw–HWH	2
41	88–1520	Cartridge–Relief	1
42	88–1530	Cartridge–Relief	1
43	237–78	O–Ring	1
*	75–2080	Kit–Seal (for Ref. #41–42)	1

*Not Illustrated



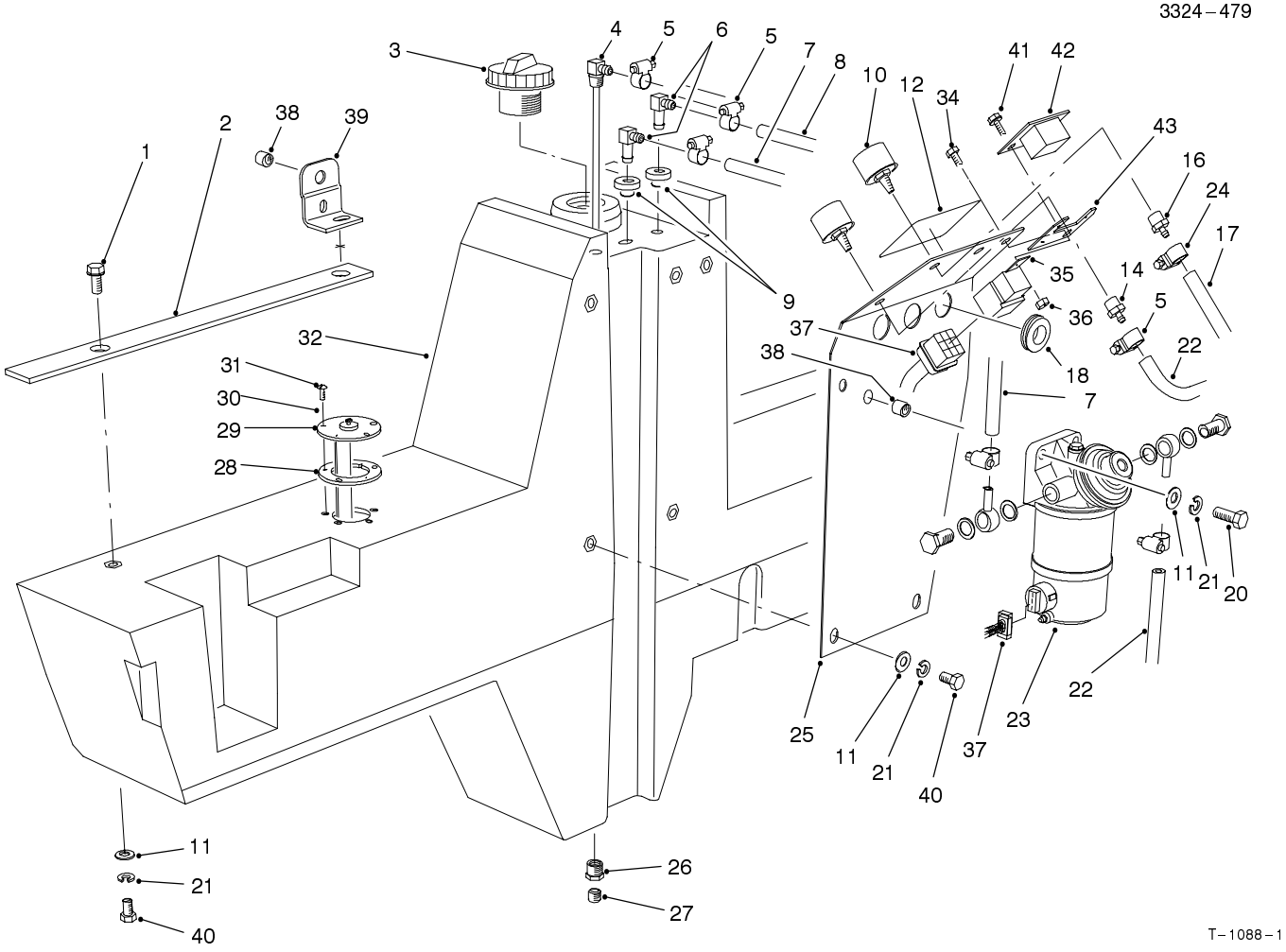
T–0379–1

Lift Valve Assembly No. 92–7762

Ref. No.	Part No.	Description	No. Used
1	58–6780	Plug Assembly (Incl. Ref. #5)	3
2	60–6450	Disc	A/R
3	58–6760	Spring	3
4	58–6770	Plunger–Detent	3
5	58–6790	Seal–O–Ring	3
6	353–508	Plug Assembly (Incl. Ref. #7)	3
7	58–6720	Seal–O–Ring	3
†8		Body	1
9	60–5720	Seal–O–Ring	6
10	58–6370	Washer–Back–Up	6
11	58–6350	Plug Assembly (Incl. Ref. #9–10)	3
12	58–6450	Seal–O–Ring	6
†13		Spool	3
†14		Nut–Lock	1
†15		Washer	1
16	69–1830	Plug Assembly (Incl. Ref. #14, 15 & 17)	1
17	58–6750	Seal–O–Ring	1
18	58–6470	Washer	A/R
19	58–6480	Washer	A/R
20	58–6490	Washer	A/R

Ref. No.	Part No.	Description	No. Used
21	92–2567	Spring	1
22	92–2568	Poppet	1
†23		Seat	1
24	58–6320	Wiper–Seal	3
25	58–6400	Bushing	3
26	58–6700	Washer	3
27	58–6730	Spring	3
28	58–6310	Spacer	3
29	58–6460	Ring–Retaining	3
30	58–6420	Cap Assembly	3
31	84–6430	Plunger	1
32	92–7780	Plug Assembly (Inc. Ref. #9–10)	3
33	92–7778	Spring	3
34	58–6290	Poppet Assembly	3
35	58–6330	Seat Assembly (Incl. Ref. #36)	3
36	58–6340	Seal–O–Ring	3
37	84–6420	Plunger	2
38	92–7779	Eyelet	3
*	60–3780	Kit–Seal (Incl. Ref. #5, 7, 9, 10, 12, 12, 17, 24, 29, 34, & 36)	1

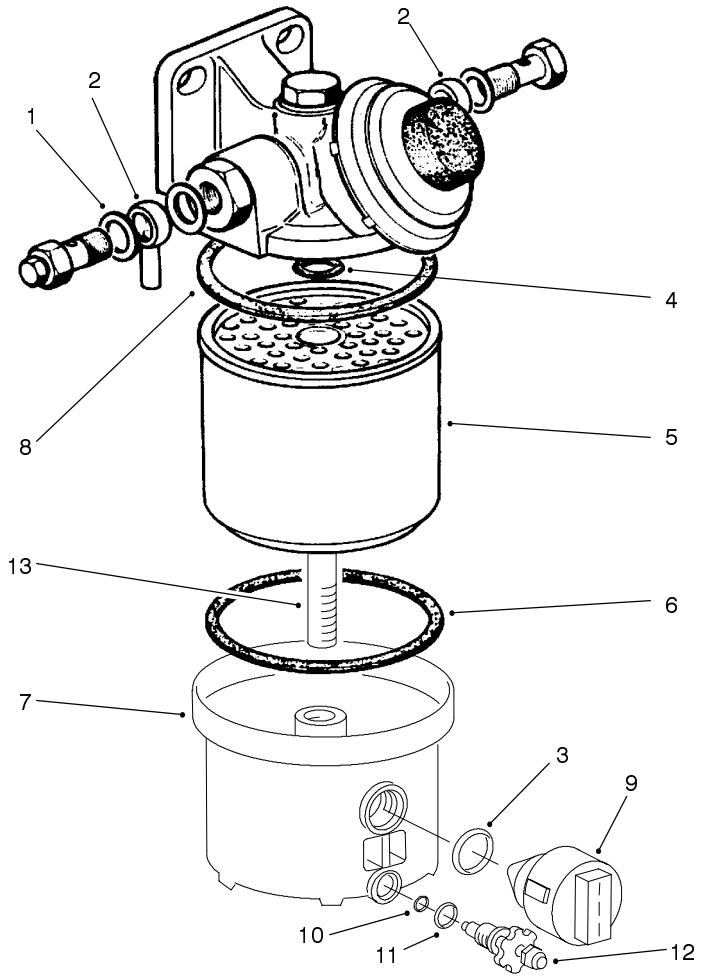
*Not Illustrated
†Not Serviceable Separately



Fuel Tank Assembly

Ref. No.	Part No.	Description	No. Used
1	3234–12	Screw–HWH	2
2	76–9790	Foam–Tank, Fuel	1
3	93–3102	Cap–Fuel	1
4	76–6600	Pipe–Stand	1
5	2412–108	Clamp–Hose	6
6	46–6550	Fitting–Fuel, 90°	2
7	63–7626	Hose–Fuel	1
8	63–7627	Hose–Fuel	1
9	46–6560	Bushing–Rubber	2
10	68–6150	Breather	2
11	3256–24	Washer–Flat	9
12	76–8780	Decal–Fuel	1
14	354–95	Fitting–Barb	1
16	354–94	Fitting–Barb	1
17	74–9122	Hose–Vent	1
18	240–6	Grommet	3
20	323–7	Screw–Cap, HH	2
21	3253–21	Washer–Lock	9
22	63–7622	Hose–Fuel	2
23	76–5300	Fuel Filter Assembly (Supplied with engine)	1

Ref. No.	Part No.	Description	No. Used
24	2412–36	Clamp–Hose	1
25	14–0859	Fuel Tank Plate Assembly (Incl. Ref. #38)	1
26	2812–1	Fitting–Bushing, Reducing	1
27	285–22	Plug–Pipe	1
28	62–7650	Gasket–Sending Unit	1
29	74–5860	Sending Unit–Fuel	1
30	3253–15	Washer–Lock	5
31	32122–24	Screw–Round Head	5
32	74–5580	Tank–Fuel (Incl. Ref. #26 & 27)	1
34	321–3	Screw–Cap, HH	2
35	70–1480	Relay–Starter	1
36	3296–42	Nut–Lock	2
37	94–5623	Harness–Wire, Main	1
38	32148–10	Insert–Threaded	3
39	82–3660	Bracket–Cover	1
40	323–4	Screw–Cap, HH	7
41	32144–18	Screw–HWH	2
42	75–6820	Meter–Hour	1
43	94–5614–03	Bracket–Meter, Hour	1



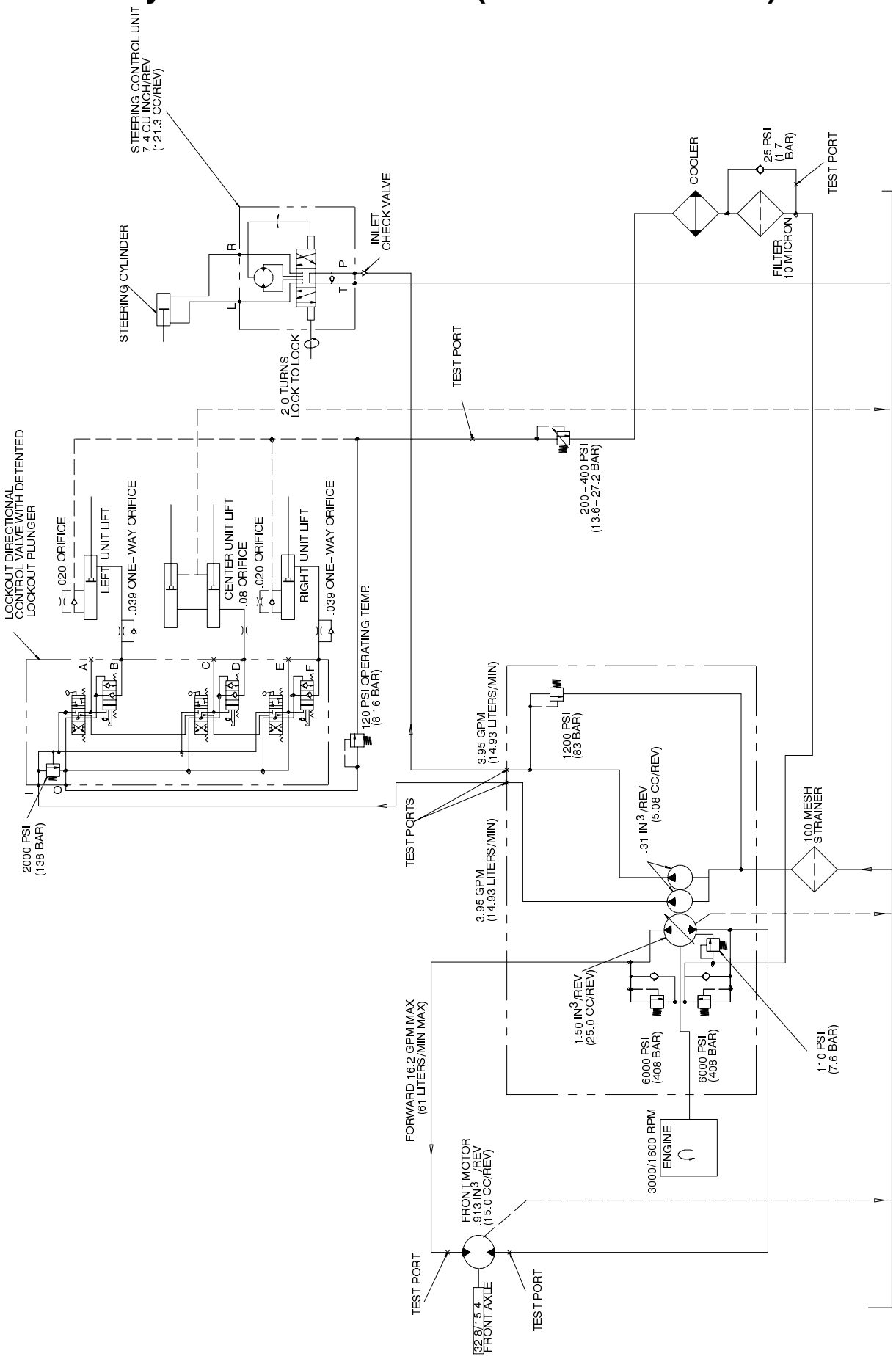
T–0966–2

Fuel Filter Assembly No. 76–5300

Ref. No.	Part No.	Description	No. Used
1	76–5180	Washer–Copper	4
2	76–5190	Fitting–Adjustable	2
3	94–8025	O–Ring	1
4		Seal–O–Ring	1
5	76–5220	Element–Filter (Incl. Ref. #4, 6 & 8)	1
6		Seal–Gasket	1
7		Cap–Filter, Fuel	1

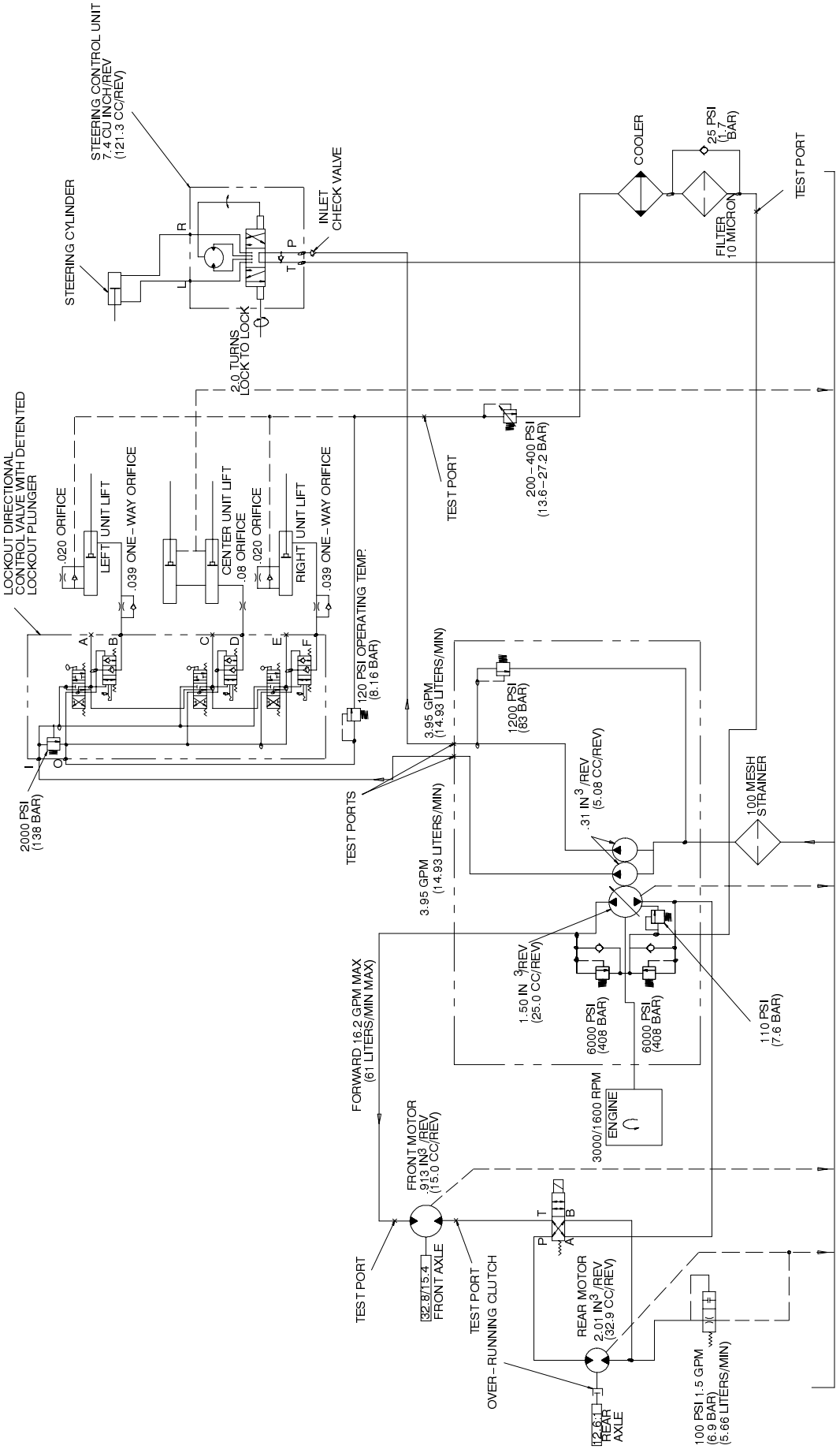
Ref. No.	Part No.	Description	No. Used
8		Seal–Gasket	1
9	76–5320	Water Sensor Assembly (Incl. Ref. #3)	1
10	94–8027	O–Ring	1
11	94–8028	O–Ring	1
12	94–8026	Vent Assembly (Incl. Ref. #10 & 11)	1
13		Bolt	1

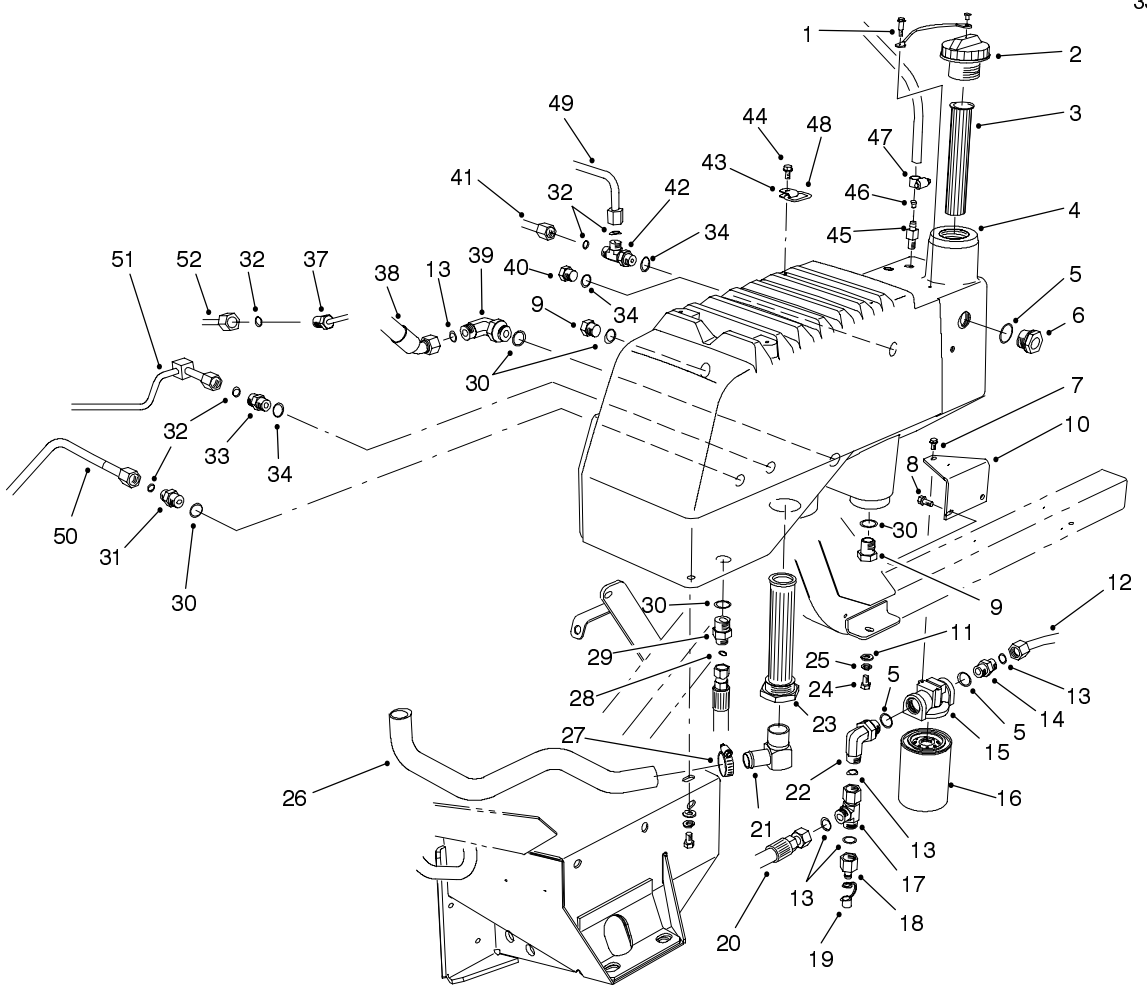
Hydraulic Schematic (Model No. 30450)



T – 1495 – 2

Hydraulic Schematic (Model No. 30455)



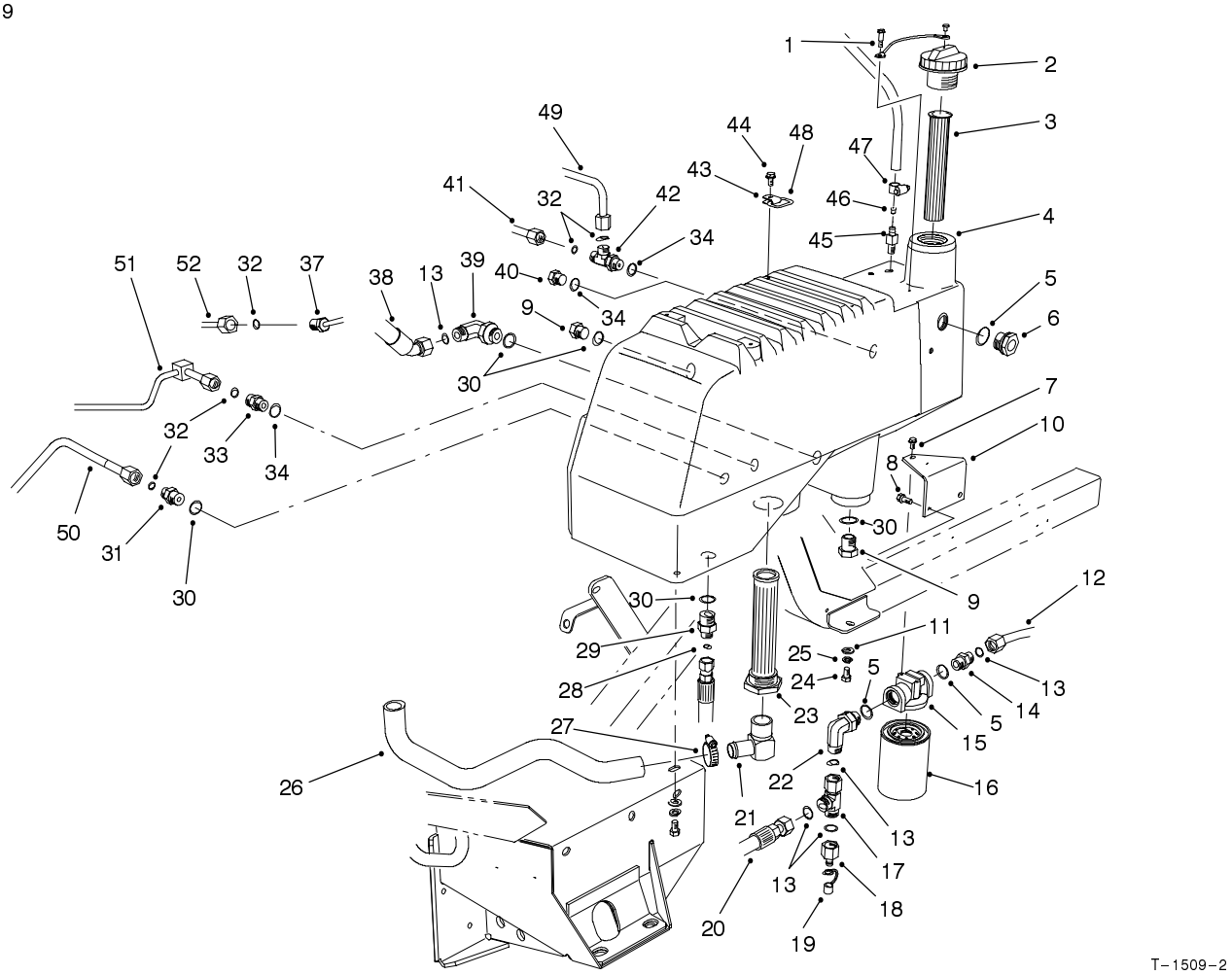


T–1509–2

Hydraulic Reservoir Assembly

Ref. No.	Part No.	Description	No. Used
1	57–5420	Screw–Shoulder	1
2	93–7160	Cap–Oil	1
3	61–2790	Screen	1
4	82–3700	Reservoir–Hydraulic	1
5	237–81	O–Ring	3
6	69–1170	Gauge–Sight (Incl. Ref. #5)	1
7	3234–13	Screw–HWH	2
8	32144–11	Screw–HWH	2
9	353–551	Plug (Incl. Ref. #30)	2
10	92–5840	Bracket–Mount, Filter	1
11	240–11	Grommet	3
12	74–6400	Filter Line Tube Assembly	1
13	237–65	O–Ring	5
14	340–8	Fitting–Adapter (Incl. Ref. #5 & 13)	1
15	92–5821	Filter Head Assembly	1
16	86–3010	Filter–Transmission	1
17	340–147	Fitting–Hydraulic (Incl. Ref. #13)	1
18	86–5860	Nipple	1
19	353–947	Cap–Fitting	1
20	86–5500	Hose Assembly	1
21	354–87	Fitting–Hydraulic, 90°	1
22	340–139	Fitting–Hydraulic (Incl. Ref. #5 & 13)	1

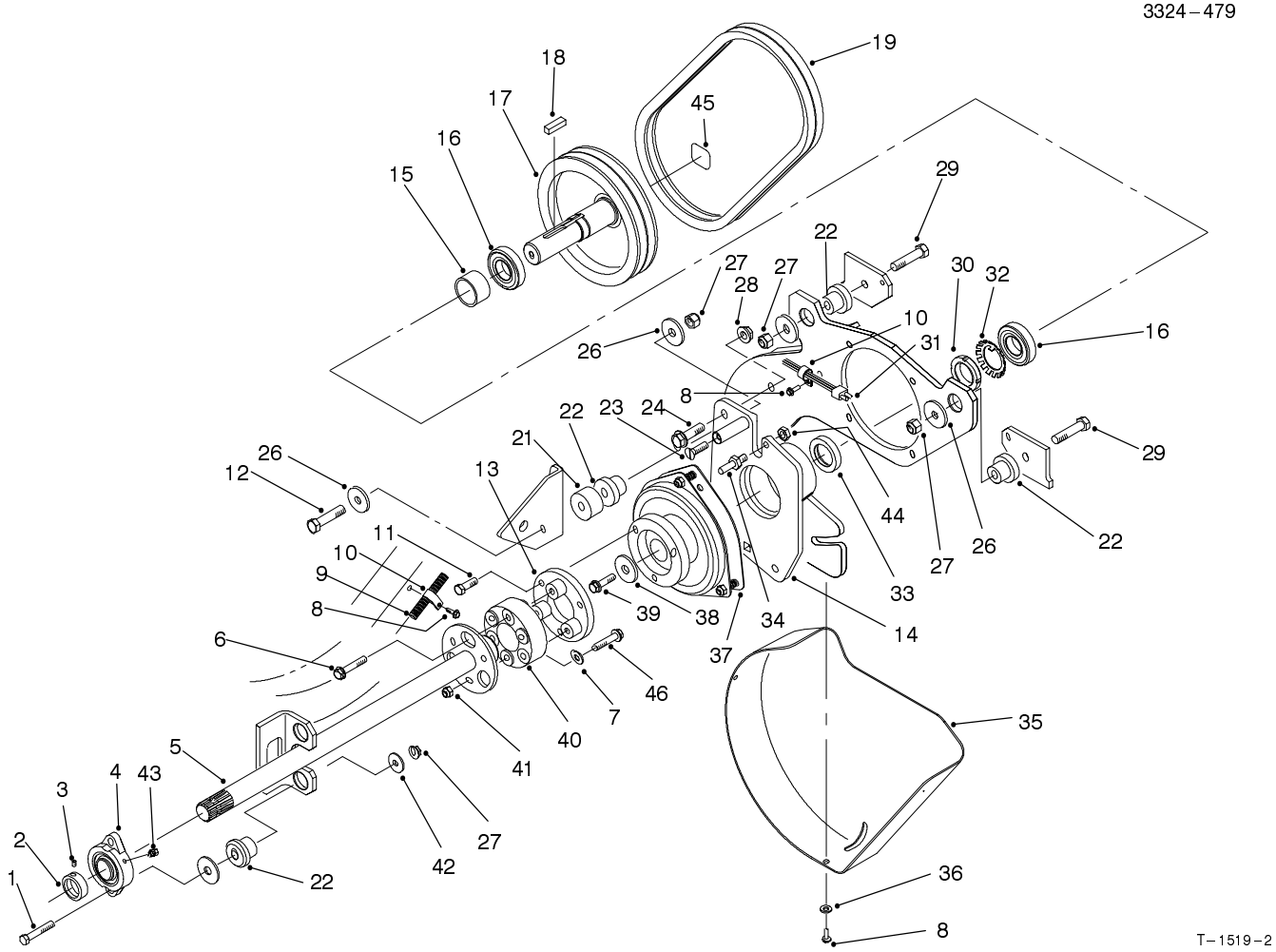
Ref. No.	Part No.	Description	No. Used
23	75–0550	Strainer–Tank	1
24	323–5	Screw–Cap, HH	3
25	63–8410	Washer–Flat	3
26	86–2800	Hose–Suction	1
27	2412–34	Clamp–Hose	1
28	237–22	O–Ring	1
29	340–141	Fitting–Hydraulic (Incl. Ref. #28 & 30)	1
30	237–80	O–Ring	5
31	340–6	Fitting–Adapter (Incl. Ref. #30 & 32)	1
32	237–30	O–Ring	5
33	340–4	Fitting–Hydraulic (Incl. Ref. #32 & 34)	1
34	237–79	O–Ring	3
37	94–8298	Hydraulic Tube Assembly	1
38	86–3150	Assembly–Hose	1
39	340–17	Fitting–Hydraulic 90° (Incl. Ref. #13 & 30)	1
40	353–550	Plug (2wd Only) (Incl. Ref. #34)	1
41	74–6230	Traction Tube Assembly (4wd Only)	1
42	340–109	Fitting–Tee (4wd Only) (Incl. Ref. #32 & 34)	1
43	76–9950	Bracket–Ring	4
44	32144–4	Screw–Forming, Thread	4



Hydraulic Reservoir Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
45	354−103	Barb−Hose, Male	1
46	74−4080	Orifice−Breather	1
47	2412−36	Clamp−Hose	1
48	249−49	Ring	4

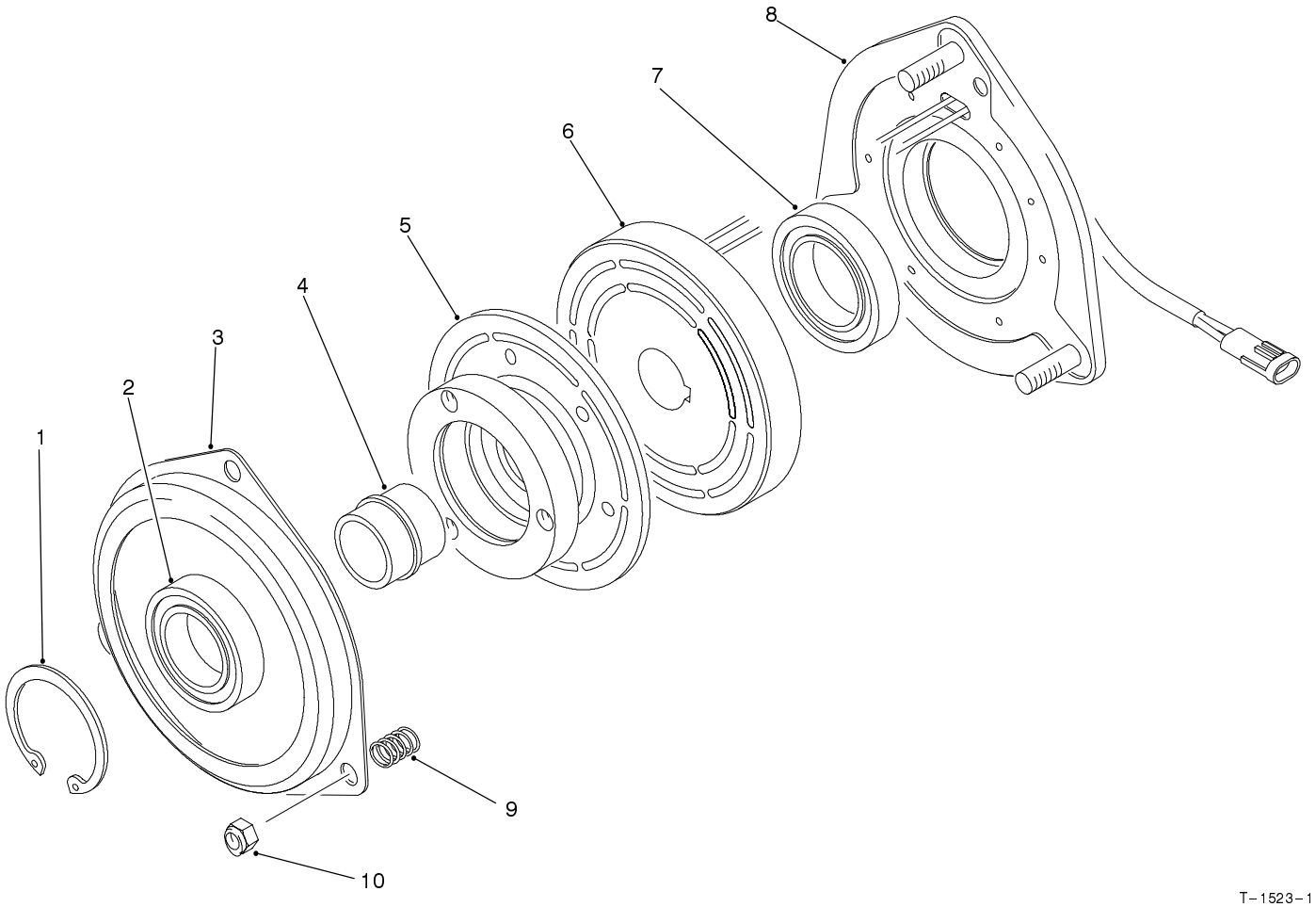
Ref. No.	Part No.	Description	No. Used
49	86−5810	Tube Assembly (4WD Only)	1
50	86−5750	Tube Assembly	1
51	94−8299	Steering Tube Assembly	1
52	86−5770	Relief Tube Assembly	1



PTO Shaft & Clutch Assembly

Ref. No.	Part No.	Description	No. Used
1	3274–71	Screw – Soc. Hex. Hd.	2
2		Collar – Bearing	1
3		Screw – Set	1
4	86–5620	Bearing (Incl. Ref. 2 & 3)	1
5	84–1320–03	Shaft – P.T.O.	1
6	100–2592	Screw – Flange Head	3
7	3256–24	Washer – Flat	3
8	32144–11	Screw – Hex. Washer Hd.	5
9	86–5470	Harness – Wire	1
10	2412–109	Clamp–J	2
11	48–9470	Bolt – Hex. Head	3
12	325–14	Screw	1
13	104-2350-03	Adapter – Clutch	1
14	92–5818–03	Housing – Bearing, Lower	1
15	88–1140	Spacer – Bearing, Lower	1
16	251–310	Bearing – Ball	2
17	100–2595	Lower Pulley Asembly (Incl. Ref. #45)	1
18	84–1540	Key	1
19	88–1170	Belt – Matched Set	1
21	84–1570	Spacer	1
22	84–1550	Mount – Rubber	5

Ref. No.	Part No.	Description	No. Used
23	88–1510	Screw – Special	1
24	3234–22	Screw – Flange Head	3
26	84–1560	Washer – Thrust	4
27	3296–25	Nut – Lock	5
28	32128–49	Nut – Flange Head	3
29	325–9	Screw – Cap Hex. Hd.	2
30	88–1450	Nut – Lock, Bearing	1
31	94–5623	Harness – Wire, Main	1
32	88–1460	Washer – Lock	1
33	100–2599	Spacer – Clutch	1
34	92–5817	Pin – Clutch Stop	1
35	88–1280	Cover – Belt, Lower	1
36	3256–70	Washer – Flat	3
37	98–7250	Clutch	1
38	84–1580	Washer – Clutch	1
39	3234–19	Screw – Flange Head	1
40	86–3040	Flange – Rubber	1
41	3296–39	Nut – Lock	3
42	86–1990	Washer	4
43	302–60	Fitting – Grease	1
44	3296–47	Nut – Lock	1
45	88–8950	Decal – Warning	1
46	323–47	Bolt–HH	3

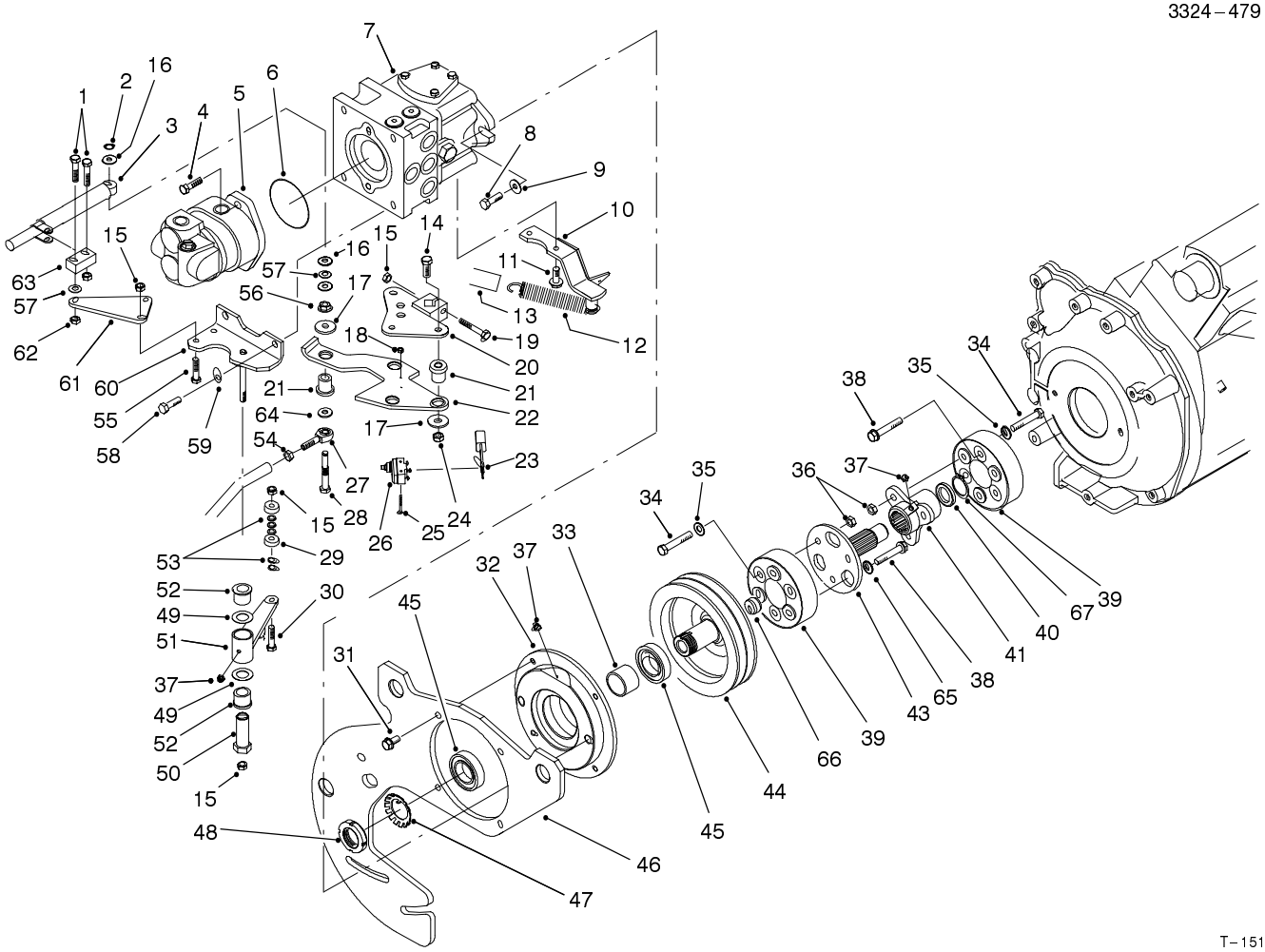


T–1523–1

Clutch Assembly No. 98–7250

Ref. No.	Part No.	Description	No. Used
1		Ring–Retaining	1
2		Bearing	1
3	88–1370	Plate–Brake	1
4		Collar–Bearing	1
5	98–7253	Armature Assembly (Incl. Ref. #1, 2 & 4)	1

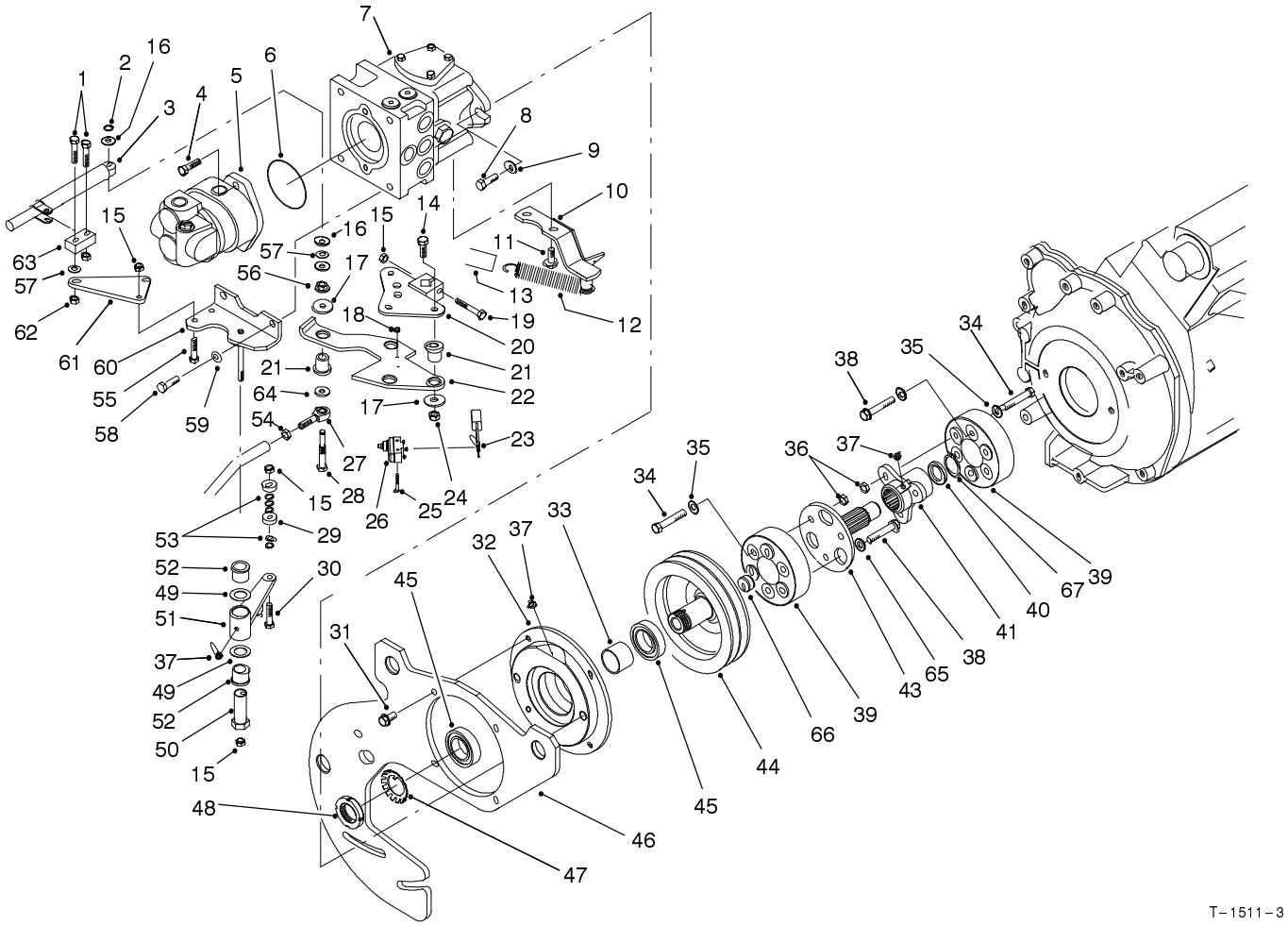
Ref. No.	Part No.	Description	No. Used
6		Field Coil Assembly	1
7		Bearing–Field	1
8	88–1610	Field Rotor Assembly (Incl. Ref. #6 &7)	1
9	44–8320	Spring	3
10	3296–6	Nut–Lock	3



Hydraulic Pump Installation Assembly

Ref. No.	Part No.	Description	No. Used
1	322–6	Screw–Cap, HH	2
2	32151–73	Ring–Clip	1
3	76–8870	Lever Damper Assembly	1
4	323–7	Screw–Cap, HH	2
5	94–8297	Gear Pump Assembly	1
6	237–161	O–Ring	1
7	86–5590	Pump Assembly	1
8	3213–2	Screw–HFH	2
9	3256–26	Washer–Flat	2
10	84–1380–03	Anchor–Spring	1
11	32144–26	Screw–HWH	2
12	76–9430–03	Spring–Extension	1
13	84–1480	Hose–Dampener	1
14	323–29	Screw–Cap, HH	3
15	3296–29	Nut–Lock	5
16	3256–71	Washer–Flat	3
17	63–8410	Washer	4
18	3296–9	Nut–Lock	2
19	322–10	Screw–Cap, HH	1
20	82–5180–03	Control–Pump	1
21	63–9751	Mount–Rubber	4
22	88–1470–03	Plate–Control, Pump	1
23	86–3020	Wire–Neutral, Switch	1
24	3296–59	Nut–Lock	3
25	3249–11	Screw–Round Head	2
26	29–6163	Switch–Micro	1

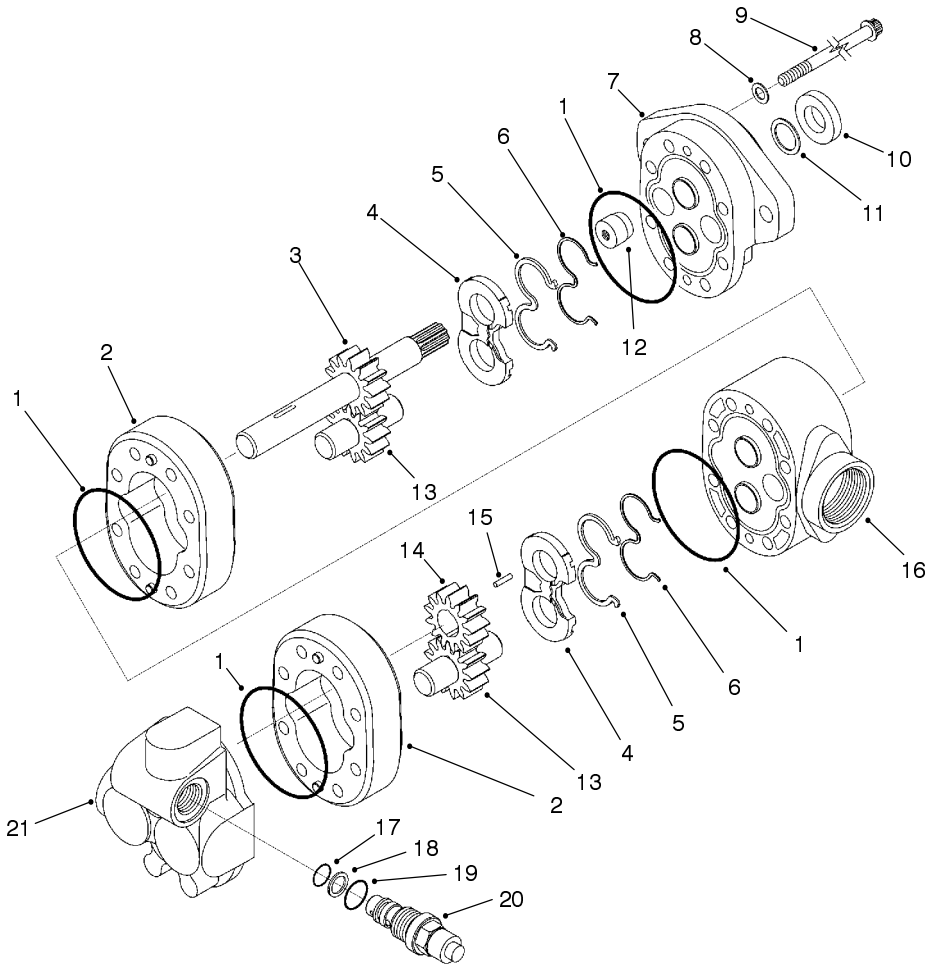
Ref. No.	Part No.	Description	No. Used
27	2411–36	End–Rod	1
28	82–5280	Shaft–Pivot	1
29	251–259	Bearing–Ball	2
30	322–7	Screw–Cap, HH	1
31	3234–1	Screw–HHF	4
32	84–0750–03	Housing–Bearing	1
33	86–5940	Spacer–Bearing	1
34	323–47	Screw–Cap, HH	6
35	3256–24	Washer–Flat	6
36	3296–39	Nut–Lock	6
37	302–5	Fitting–Grease	3
38	100–2592	Screw–HHF	6
39	86–3040	Coupling–Rubber	2
40	253–43	Seal–Grease	1
41	84–1330–03	Hub–Splined	1
43	84–1030–03	Driveshaft	1
44	84–0170–03	Pulley–P.T.O.	1
45	251–314	Bearing	2
46	86–2830–03	Plate–Adapter, Main	1
47	88–1440	Washer–Lock	1
48	88–1430	Nut–Lock, Bearing	1
49	3–6498	Washer	2
50	76–8640	Stud–Traction	1
51	92–2581	Neutral Switch Arm Assembly (Incl. Ref.#37 & 52)	1
52	256–113	Bushing	2



Hydraulic Pump Installation Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
53	75–5470	Washer	5
54	3220–3	Nut–Jam	1
55	322–5	Screw–Cap, HH	2
56	3290–357	Nut–Head, Flange	1
57	3290–477	Washer–Curved	2
58	324–4	Screw–Cap, HH	2
59	3253–6	Washer–Lock	2
60	95–4352	Bracket–Neutral	1

Ref. No.	Part No.	Description	No. Used
61	95–4351–03	Plate–Pivot	1
62	3296–47	Nut–Lock	2
63	76–9760	Pivot–Damper	1
64	3256–3	Washer	1
65	80–7730	Spacer	3
66	92–1351	Plug–Pulley	1
67	32120–74	Ring–Retaining	1



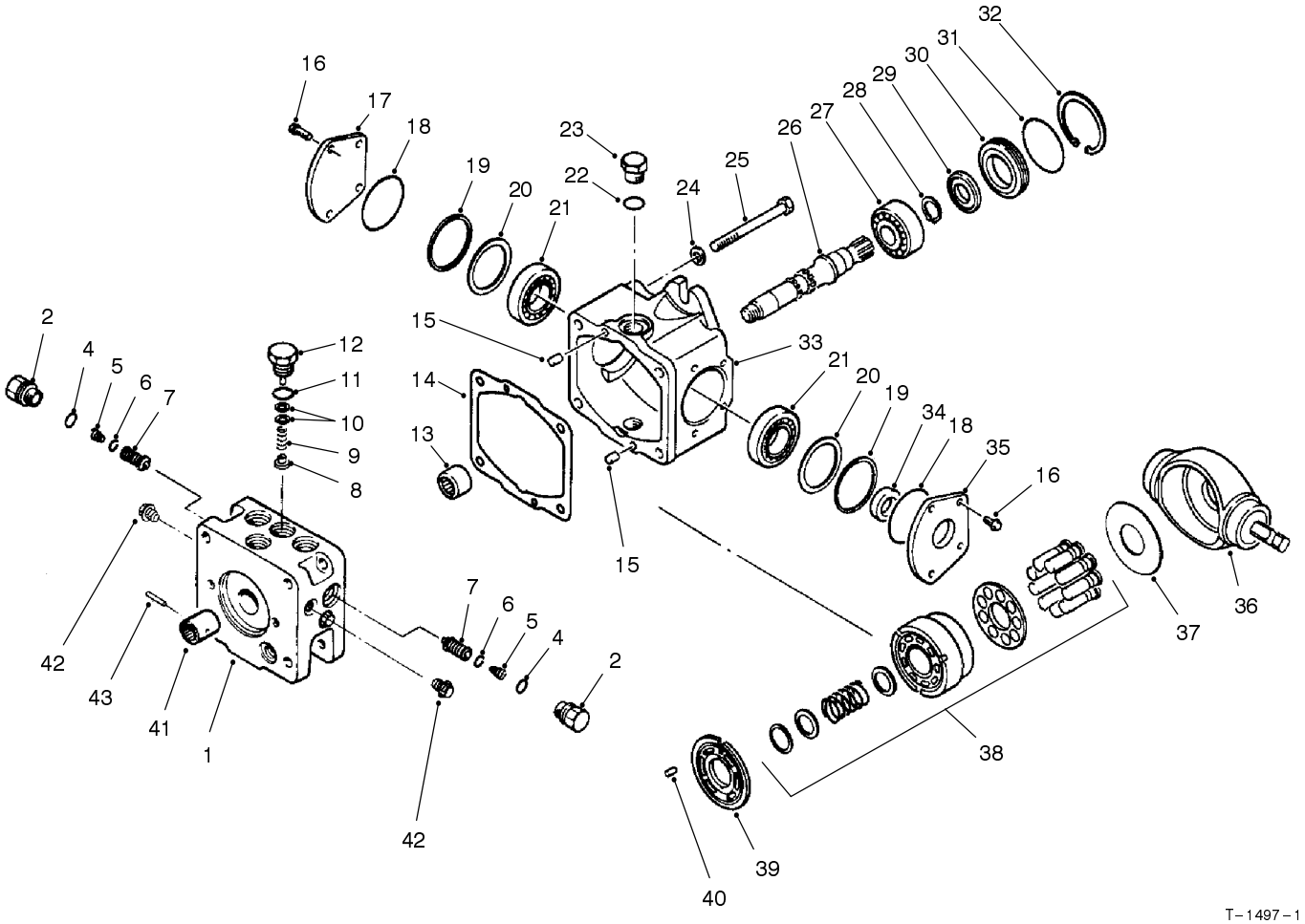
T–2619–1

Gear Pump Assembly No. 94–8297

Ref. No.	Part No.	Description	No. Used
1	56–6710	O–Ring	4
2	95–4364	Body Assembly	2
3	95–4365	Drive Gear Assembly	1
4	95–4368	Plate–Wear	2
5	95–4367	Gasket– Backup	2
6	95–4369	Seal	2
7	95–4362	Frontplate Assembly	1
8	94–8160	Washer	4
9	95–4370	Screw–Cap	8
10	49–2640	Seal–Shaft	1
11	60–5890	Washer	1
12	94–3011	Plug	1

Ref. No.	Part No.	Description	No. Used
13	95–4366	Idler Gear Assembly	2
14	95–4373	Gear	1
15	95–4372	Key	1
16	95–4371	Plate–Adaptor	1
†17		O–Ring	1
†18		Washer	1
†19		O–Ring	1
†20		Valve	1
21	95–4363	Backplate Assembly	1
*	95–4374	Relief Valve Assembly (Incl. Ref. #17–20)	1

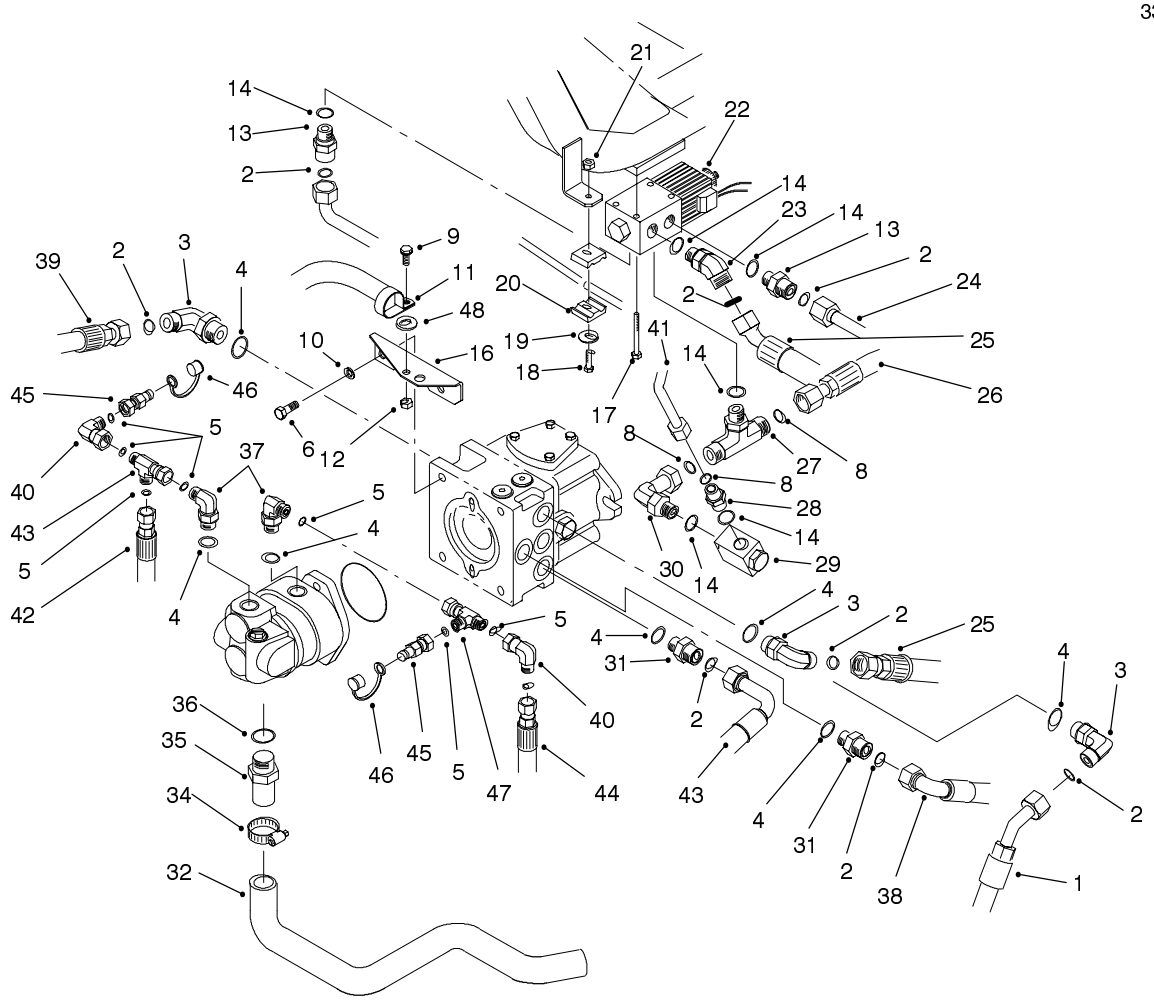
*Not Illustrated
†Not Serviced Separately



Traction Pump Assembly No. 86–5590

Ref. No.	Part No.	Description	No. Used
1	92–1354	Cap–End	1
2	92–1355	Plug–Special	2
4	75–0240	O–Ring	2
5	75–0140	Spring–Conical	2
6	84–0550	Ring–Retaining	2
7	92–1356	Valve–Screw, 415 BAR	2
8	84–0480	Poppet–Charge Relief	1
9	84–0490	Spring–Compression	1
10	92–1353	Shim	1
11	28–3570	O–Ring	1
12	84–0500	Charge Relief Plug Assembly	1
13	75–0500	Bearing–Needle	1
14	84–0210	Gasket–Cap, End	1
15	75–0480	Pin	2
16	84–0460	Screw	8
17	84–0440	Cover–Trunnion	2
18	84–0430	O–Ring	4
19	84–0270	Spacer–Trunnion	4
20	84–0570	Shim–Kit, Trunnion	4
21	84–0260	Bearing–Roller	4
22	353–551	Plug Assembly (Incl. Ref. #23)	3

Ref. No.	Part No.	Description	No. Used
23	237–80	O–Ring	3
24	84–0360	Washer	8
25	84–0330	Screw–Cap, HH	8
26	84–0300	Shaft–Pump	1
27	84–0310	Bearing–Ball	1
28	84–0320	Ring–Retaining	1
29	84–0400	Seal–Lip	1
30	84–0410	Carrier–Seal	1
31	28–3520	O–Ring	1
32	84–0380	Ring–Retaining, Internal	2
33	84–0240	Housing–Pump	1
34	84–0470	Seal–Lip	2
35	84–0450	Cover–Trunnion	1
36	84–0250	Plate–Swash, Variable	1
37	75–0400	Plate–Thrust	1
38	75–0470	Kit–Block, Cylinder	1
39	84–0280	Plate–Valve, RH	1
40	75–0510	Pin	1
41	92–1358	Coupling	1
42	92–1352	Plug	3
43	92–1357	Pin	1

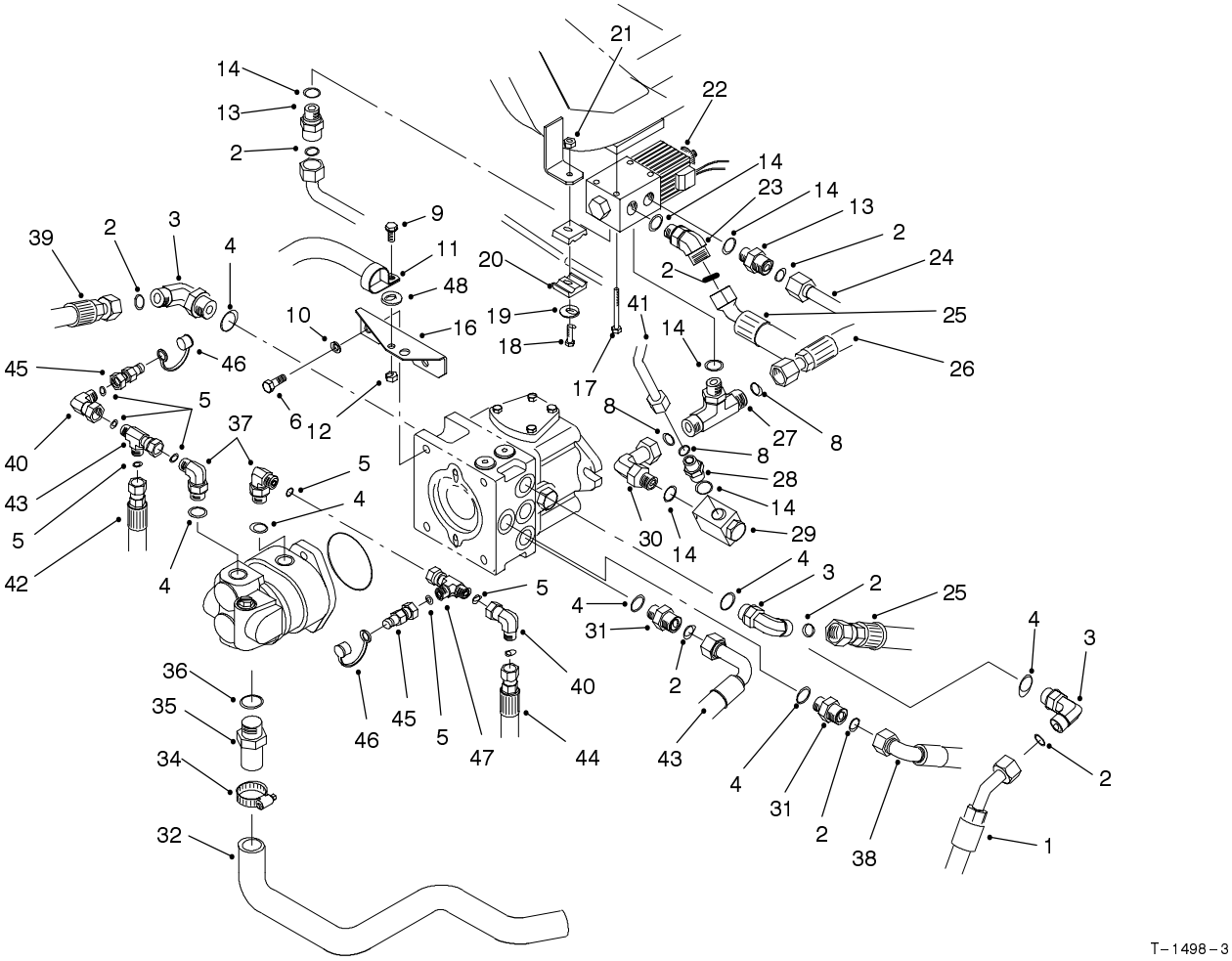


Hydraulic Pump Fittings Assembly

Ref. No.	Part No.	Description	No. Used
1	92–5841	Traction Hose Assembly	1
2	237–65	O–Ring	8
3	340–17	Fitting–Hydraulic, 90° (Incl. Ref. #2 & 4)	2
4	237–80	O–Ring	6
5	237–22	O–Ring	7
6	324–4	Screw–Cap, HH	2
8	237–30	O–Ring	3
9	322–5	Screw–Cap, HH	1
10	3253–6	Washer–Lock	2
11	2412–104	R–Clamp	1
12	32128–20	Nut–Lock, Flange Head	1
13	340–155	Fitting–Hydraulic, 90° (Incl. Ref. #2 & 14) (Model 30455 Only)	2
14	237–79	O–Ring (Model 30455 Only)	6
16	88–1290–03	Bracket–Rod, Seat	1
17	321–15	Screw–Cap, HH (Model 30455 Only)	2
18	322–6	Screw–Cap, HH	1
19	3256–71	Washer–Flat	1
20	56–7973	Clamp	2
21	3296–47	Nut–Lock	1
22	76–9970	Valve–4 WD (Model 30455 Only)	1

Ref. No.	Part No.	Description	No. Used
23	340–55	Fitting–Hydraulic, 45° (Incl. Ref. #2 & 14) (Model 30455 Only)	1
24	86–2770	Traction Tube Assembly (Model 30455 Only)	1
25	92–5828	Hose Assembly (Model 30455 Only)	1
26	86–2710	Rear Hose Assembly (Model 30455 Only)	1
27	340–157	Fitting–Tee (Incl. Ref. #8 & 14) (Model 30455 Only)	1
28	340–4	Fitting–Hydraulic (Incl. Ref. #8 & 14) (Model 30455 Only)	1
29	84–0720	Valve–Velocity (Model 30455 Only)	1
30	340–165	Fitting–Hydraulic (Incl. Ref. #14) (Model 30455 Only)	1
31	340–7	Fitting–Hydraulic (Incl. Ref. #2 & 4)	2
32	86–2800	Hose–Suction	1
34	2412–34	Clamp–Hose	1
35	95–4356	Fitting–Hydraulic (Incl. Ref. #36)	1
36	237–146	O–Ring	1

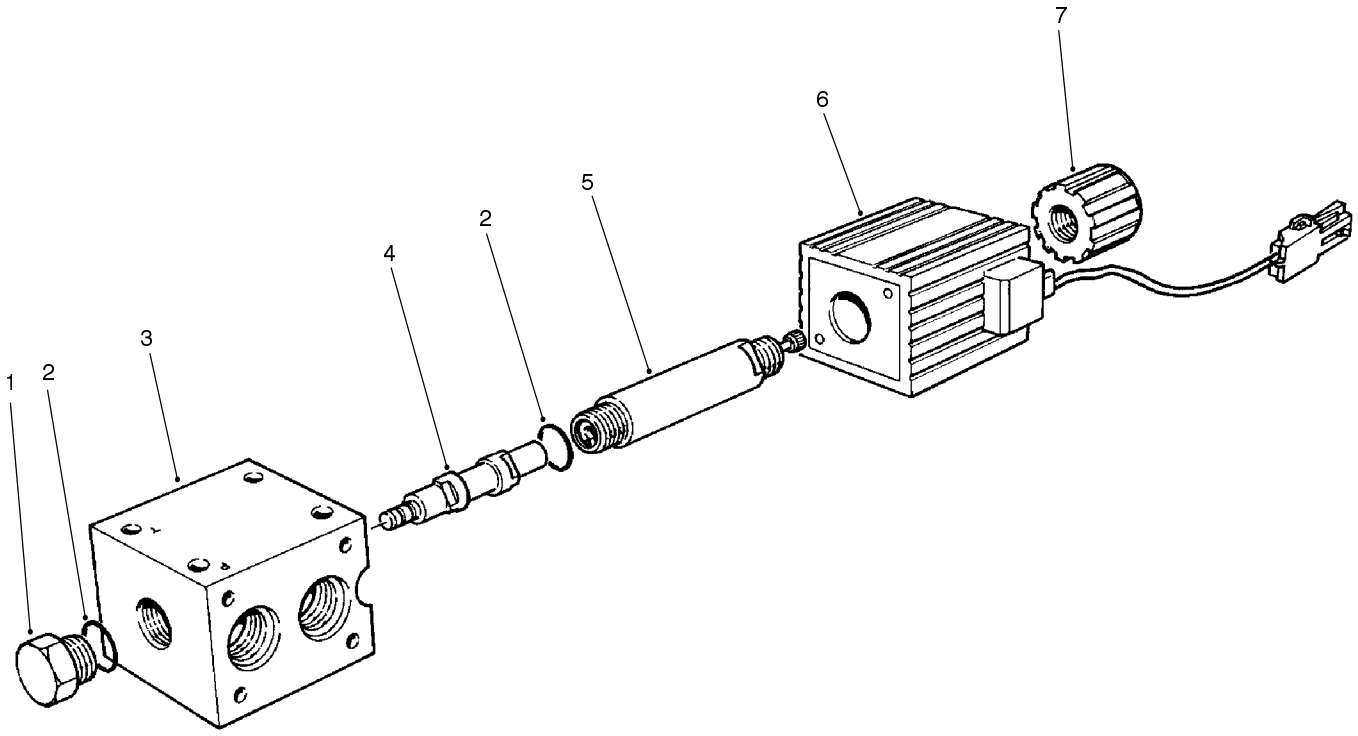
*Not Illustrated



Hydraulic Pump Fittings Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
37	340–18	Fitting–Hydraulic, 90° (Incl. Ref. #4 & 5)	2
38	86–5500	Hose Assembly	1
39	86–3150	Hose Assembly	1
40	340–159	Fitting–Hydraulic, 90° (Incl. Ref. #5)	2
41	86–5810	Tube Assembly (Model 30455 Only)	1
42	86–5570	Hose Assembly	1
43	92–5830	Hose Assembly	1
44	95–4354	Hose Assembly	1
45	86–5480	Fitting–Diagnostic	2
46	354–79	Cap–Fitting	2
47	340–115	Fitting–Tee, Hydraulic (Incl. Ref. #5)	2
48	80–7730	Spacer	1

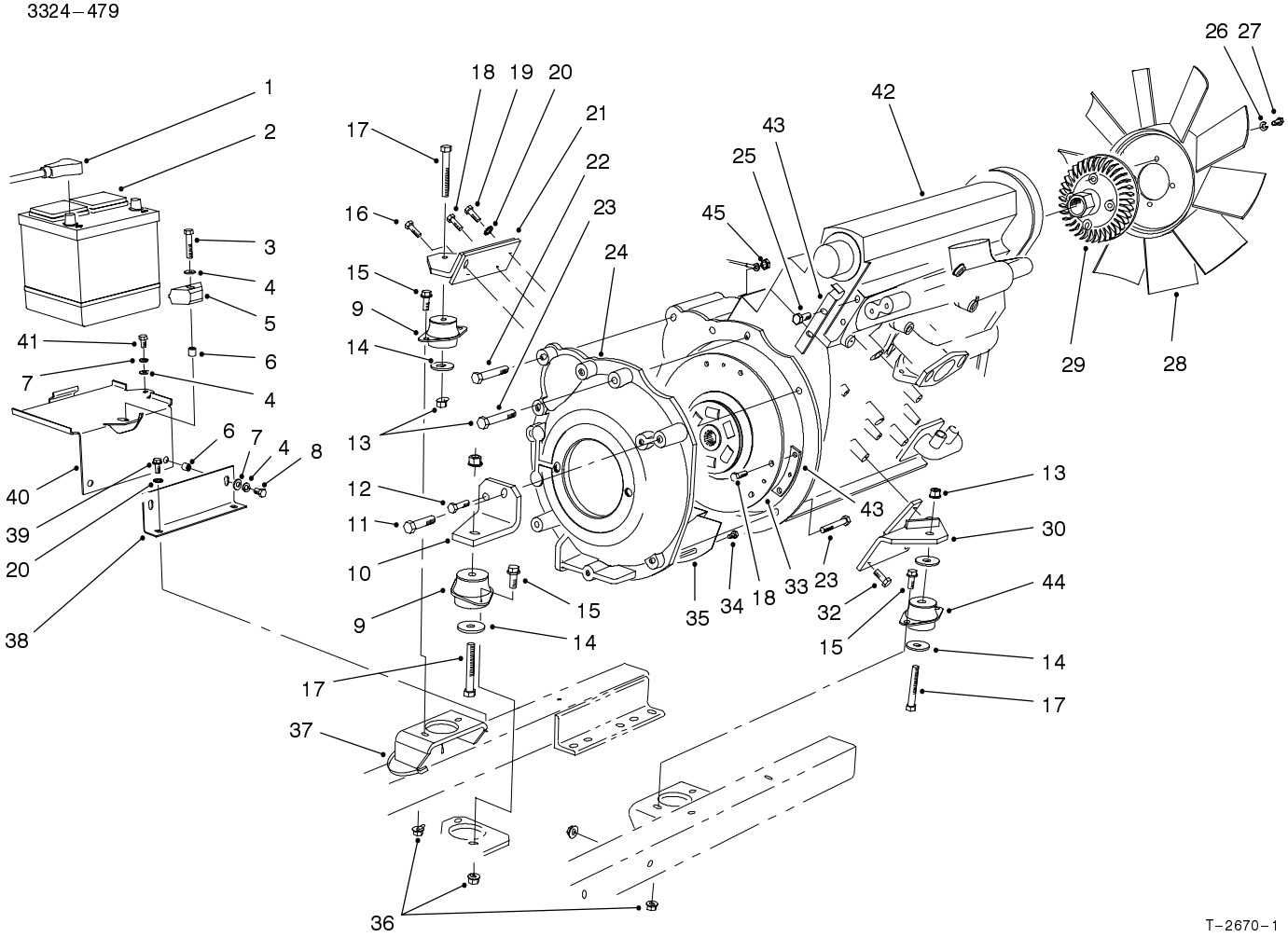
*Not Illustrated



T–1126

Solenoid Valve Assembly No. 76–9970 (Model No. 30455 Only)

Ref. No.	Part No.	Description	No. Used
1		Adapter Assembly (Incl. Ref. #2)	1
2	237–80	O–Ring	2
3		Valve–Directional	1
4		Spool	1
5		Tube Assembly (Incl. Ref. #2)	1
6	218–591	Coil Assembly	1
7	218–592	Nut–Coil	1

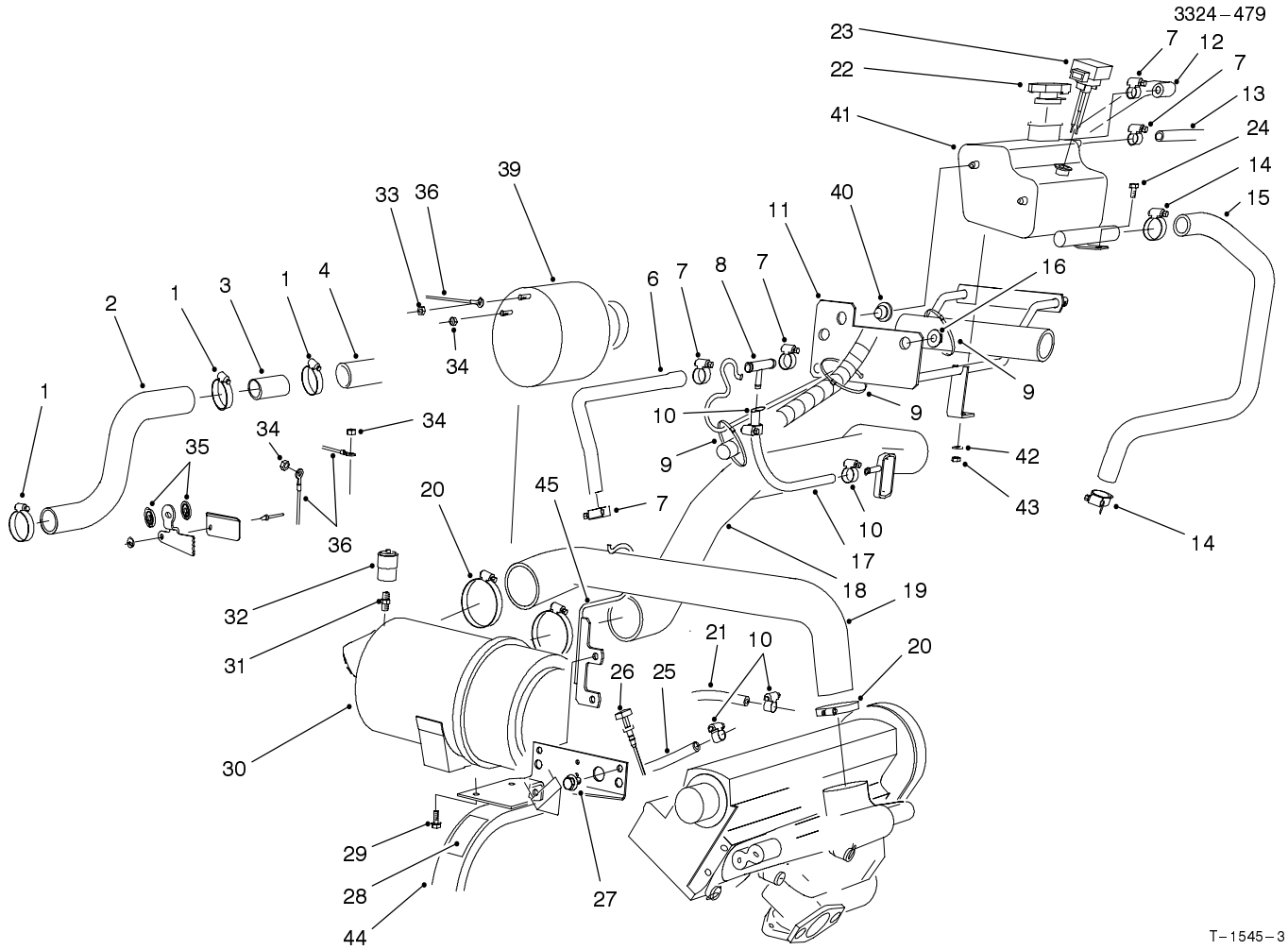


Engine & Battery Installation Assembly

Ref. No.	Part No.	Description	No. Used
1	74–9080	Cable–Battery, Pos.	1
*	74–9090	Cable–Battery, Neg.	1
†2		Battery	1
3	323–9	Screw–Cap, HH	1
4	3256–24	Washer–Flat	4
5	66–2490	Clamp–Battery	1
6	32148–10	Insert–Threaded	3
7	3253–21	Washer–Lock	3
8	323–33	Screw–Cap, HH	2
9	53–9681	Mount–Rubber, Engine	2
10	74–5470–03	Mount–Engine	1
11	48–7840	Screw–Cap, HH	1
12	48–9470	Screw–Cap, HH	1
13	32128–37	Nut–Lock, Flange Head	3
14	87–5100	Washer–Flat	4
15	3234–11	Screw	6
16	48–9460	Screw–Cap, HH	1
17	324–12	Screw–Cap, HH	3
18	48–7700	Screw–Cap, HH	8
19	48–7730	Screw–Cap, HH	1
20	3255–8	Washer–Lock, Ext. Tooth	2
21	76–4120–03	Mount–Engine	1
22	48–7810	Screw–Cap, HH	3
23	48–7570	Screw–Cap, HH	3

Ref. No.	Part No.	Description	No. Used
24	84–0760–03	Adapter–Pump to Engine	1
25	33114–016	Screw–Cap, HH	2
26	3253–4	Washer–Lock	4
27	322–3	Screw–Cap, HH	4
28	74–3650	Fan	1
29	74–5520	Clutch–Fan	1
30	76–4220–03	Mount–Engine	1
32	48–7780	Screw–Cap, HH	3
33	84–1440–03	Plate–Adapter	1
34	48–7610	Screw–Cap, HH	3
35	77–3600	Shield–Adapter (Furnished with engine)	1
36	3290–357	Nut–Lock	6
37	3290–378	Tie–Cable	1
38	76–4310–03	Support–Base, Battery	1
39	32144–11	Screw–HWH	2
40	14–0949	Battery Base Assembly (Incl. Ref. #6)	1
41	323–4	Screw–Cap, HH	1
42	100–3794	Engine Assembly	1
43	94–5615	Bracket–Hose, Return	1
44	53–9682	Mount–Rubber, Engine	1
45	48–7930	Nut–Hex	1

*Not Illustrated
†Obtain Locally

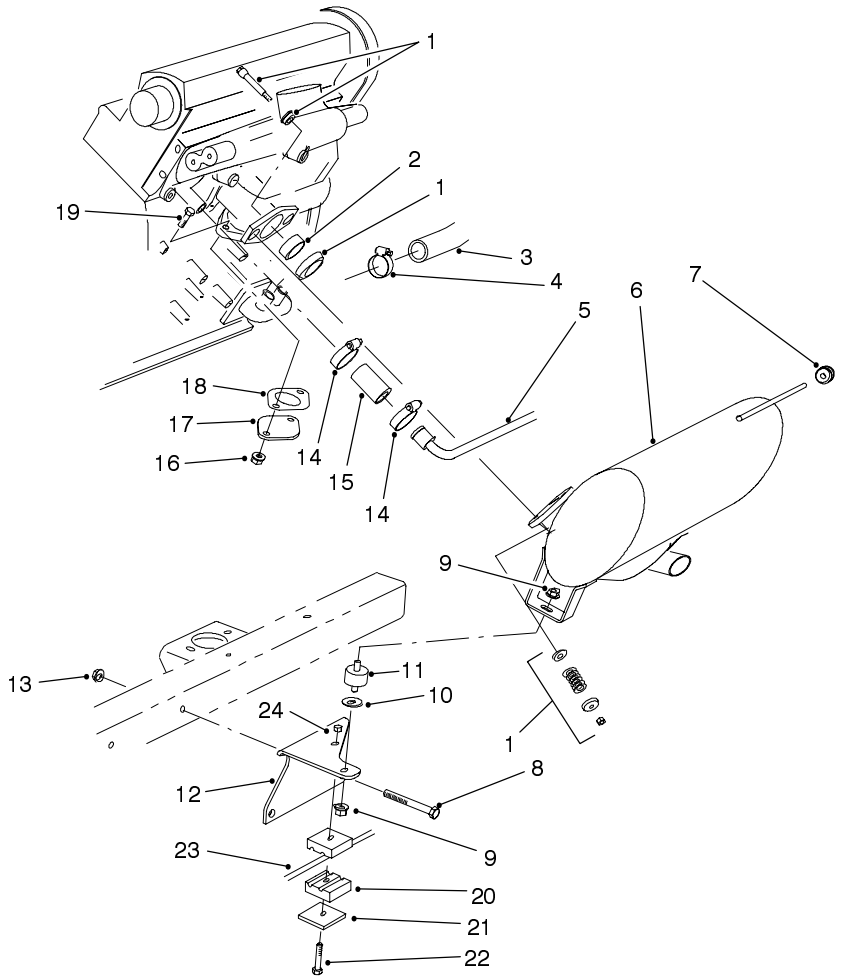


Engine Plumbing Assembly

Ref. No.	Part No.	Description	No. Used
1	2412–3	Clamp–Hose	3
2	94–1418	Hose–Radiator, Upper	1
3	93–7594	Spacer–Tubular	1
4	93–7221	Hose–Radiator, Upper	1
6	94–2630	Hose–Return	1
7	2412–36	Clamp–Hose	5
8	93–4207	Fitting–Hose, Tee	1
9	3290–378	Tie–Cable	2
10	2412–108	Clamp–Hose	4
11	93–7229–03	Degassing Support Asssembly	1
12	93–7788	Hose–Return	1
13	94–5625	Hose–Radiator, Overflow	1
14	2412–129	Clamp–Hose	2
15	94–5604	Hose–Overflow	1
16	3290–357	Nut–Flange	3
17	63–7622	Hose–Line, Fuel	1
18	93–7224	Hose–Intake	1
19	93–7223	Hose–Cleaner, Air	1
20	2412–125	Clamp–Hose	3
21	63–7627	Hose–Fuel	1
†22	94–2800	Cap–Radiator	1

Ref. No.	Part No.	Description	No. Used
†23	94–9984	Sensor–Level, Water	1
24	33105–020	Screw–HHF	1
25	63–7622	Hose–Fuel	1
†26	93–9175	Dipstick	1
27	3234–11	Screw–Flange	3
28	83–9150	Decal–Fluid, Starting	1
29	33104–016	Screw–HHF	2
30	100–2597	Filter Assembly	1
31	94–1416	Adapter Assembly	1
32	93–9164	Indicator–Service	1
33	48–7930	Nut–Hex	1
34	48–7880	Nut–Hex	3
35	86–2990	Mount–Cable, Throttle	2
36	94–5623	Wire Harness–Main	1
39	94–3252	Alternator	1
†40	94–2801	Grommet–Rubber	2
†41	94–9983	Box–Degassing	1
42	33093–00	Washer–Flat	1
43	33023–00	Nut–Lock, Nylon Insert	1
44	93–7236–03	Bracket–Support	1
45	94–8003–03	Support–Hose, Air Cleaner	1

† Furnished with engine.

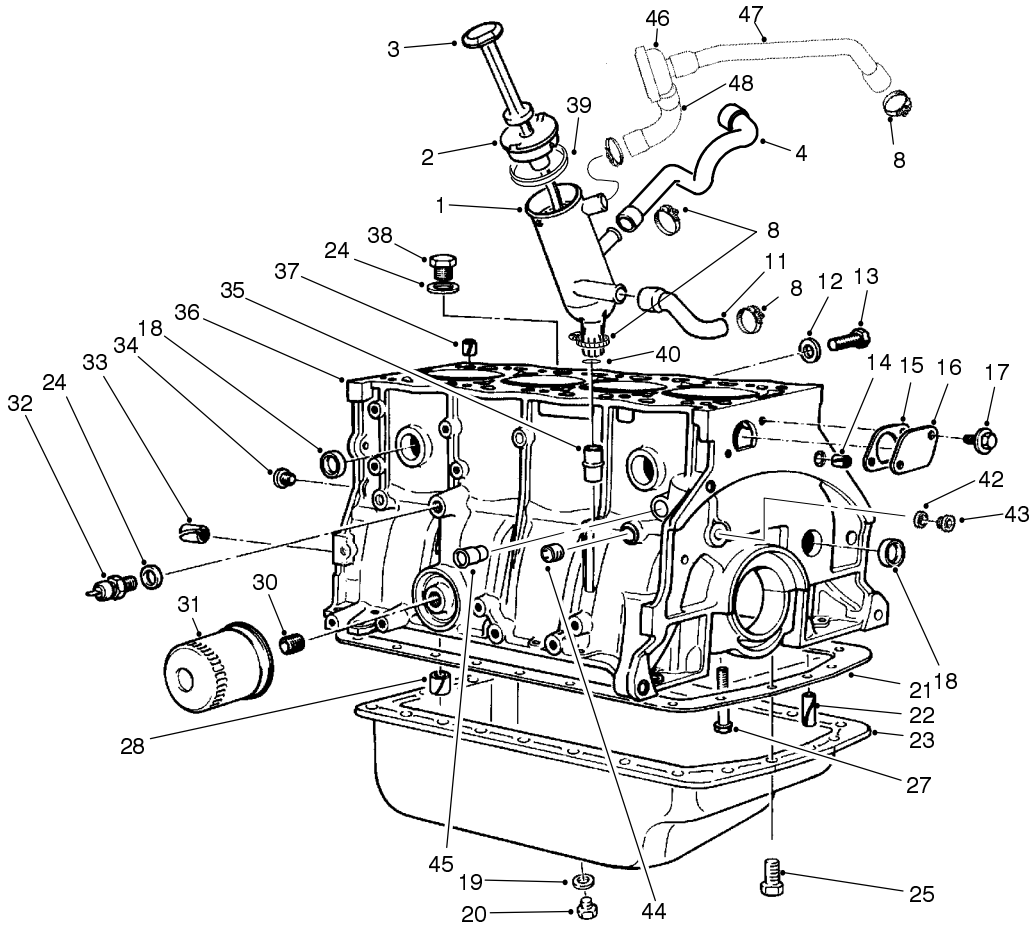


T–1544–2

Muffler and Air Cleaner Installation Assembly

Ref. No.	Part No.	Description	No. Used
†1	94–2814	Kit–Coupler, Exhaust	1
†2	94–2815	Sleeve–Flange, Exhaust	1
3	74–6020	Hose–Radiator, Lower	1
4	2412–3	Clamp–Hose	1
5	92–7381	Tube–Water, Return	1
6	94–8012	Muffler Assembly	1
7	94–2812	Grommet	1
8	323–20	Screw–Cap, HH	2
9	32128–20	Nut–Lock, Flange	2
10	62–9510	Washer–Lever, Braker	1
11	94–5608	Mount–Rubber	1
12	93–7245–03	Bracket–Support	1

Ref. No.	Part No.	Description	No. Used
13	32128–19	Nut–Lock, Flange	2
14	2412–129	Clamp–Hose	4
15	74–6490	Hose–Line, Water	2
16	33004–00	Nut–Flange, Hex	2
17	92–7382–03	Cover–Manifold	1
18	77–3700	Gasket–Muffler, Exhaust	1
19	33104–020	Screw–HHF	2
20	56–7971	Clamp–Tube	2
21	69–9761	Plate–Cover	1
22	322–9	Screw–HH	1
23	94–8298	Oil Cooler Tube Assembly	1
24	32152–1	Nut–Lock	1



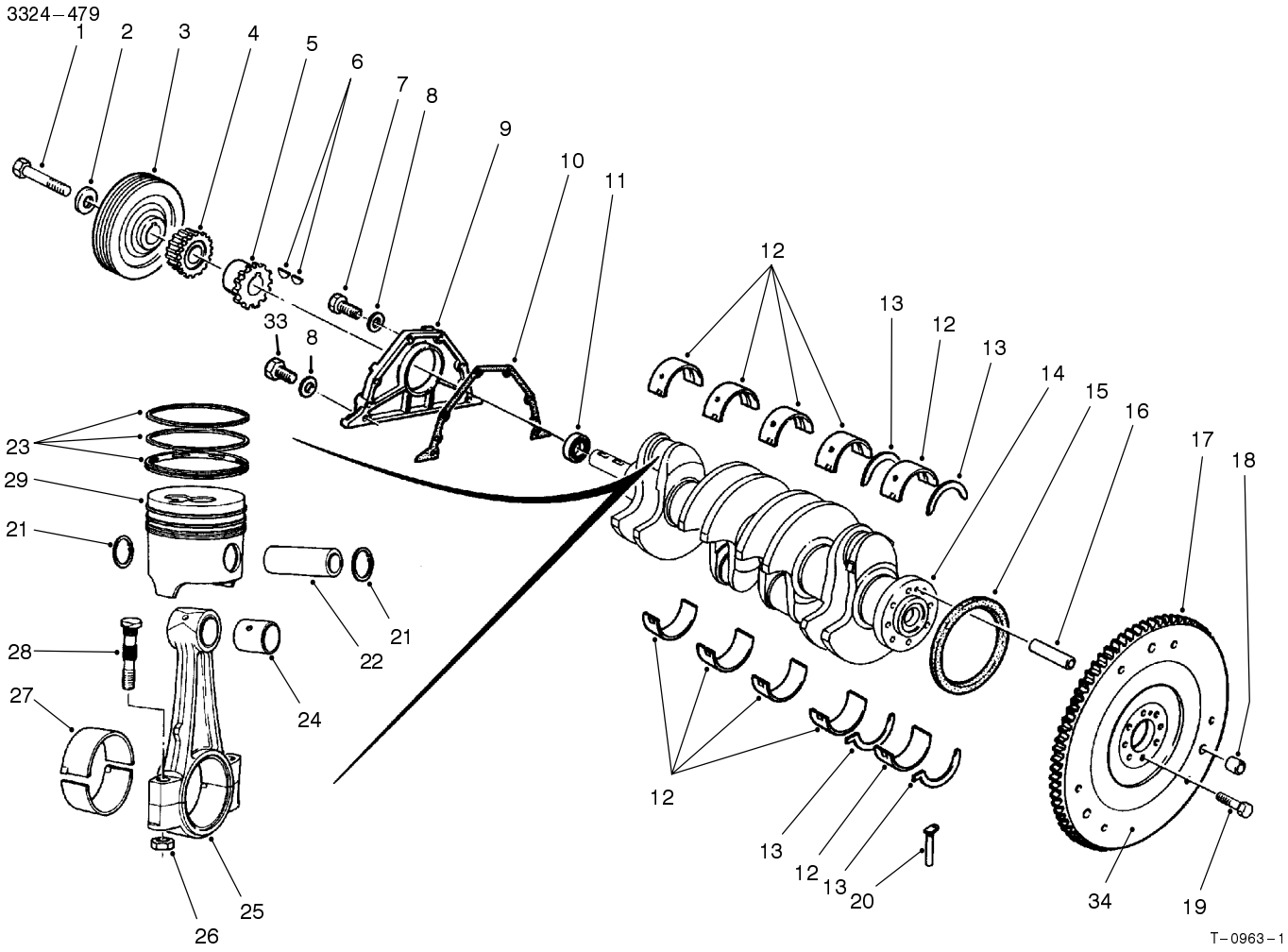
T – 2142 – 1

Crankcase Assembly

Ref. No.	Part No.	Description	No. Used
1	94 – 3181	Filler – Oil (Incl. Ref. 39)	1
2	94 – 3182	Plug	1
3	93 – 9175	Dipstick – Oil	1
4	94 – 3184	Union	1
8	2412 – 129	Clamp – Hose	8
11	74 – 7770	Hose – Crankcase	1
12	74 – 7780	Gasket	1
13	74 – 7790	Screw	1
14	74 – 7800	Pin	2
15	74 – 7810	Gasket – Plate	1
16	74 – 7820	Plate	1
17	94 – 3112	Screw – Head, Washer	2
18	74 – 7840	Plug – 27 mm Dia.	8
*	94 – 3108	Plug – 27.5 mm Dia.	8
*	94 – 3109	Plug – 28.5 mm Dia.	9
19	74 – 7320	Gasket	1
20	74 – 7310	Plug – Threaded	1
21	74 – 7380	Gasket – Pan, Oil	1
22	94 – 3111	Pin – Groove	2
23	74 – 7300	Pan – Oil	1
24	74 – 7850	Gasket	2
25	74 – 7330	Screw – Cap, HH	23

Ref. No.	Part No.	Description	No. Used
27	74 – 7930	Screw – Cap, Bearing	10
28	74 – 7940	Bushing – Spring	1
30	74 – 7960	Stud – Filter	1
31	74 – 7970	Filter – Oil	1
32	94 – 3180	Switch – Pressure	1
33	74 – 7990	Pin – Spring	4
34	74 – 8000	Plug	2
35	74 – 8010	Guide – Dipstick	1
36	94 – 3100	Short Block Assembly (Incl. Pistons next page)	1
37	74 – 8030	Pin – Spring	1
38	74 – 8040	Plug – Drain	1
39	94 – 3183	Gasket	1
40	94 – 3186	O – Ring	1
42	94 – 3106	Gasket	2
43	94 – 3104	Plug – Threaded	2
44	94 – 3103	Plug – Threaded	1
45	94 – 3110	Stud	1
46	74 – 5760	PCV Valve	1
47	94 – 3192	Union	1
48	94 – 3191	Union	1
*	74 – 7860	Gasket Set (Without Head Gasket)	1

*Not Illustrated

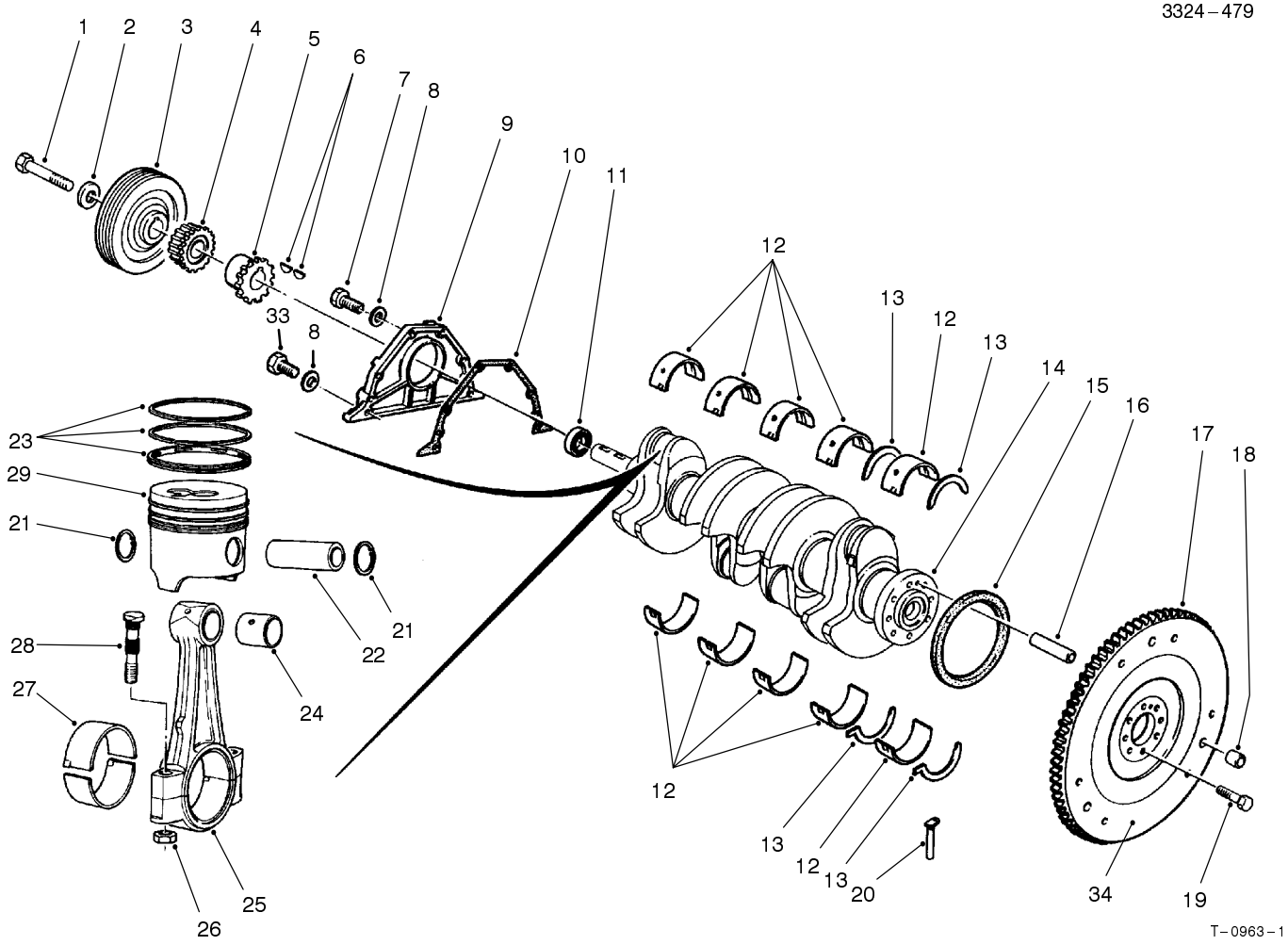


Crankshaft Assembly

Ref. No.	Part No.	Description	No. Used
1	94–3145	Screw–Cap, HH	1
2	74–8080	Washer	1
3	94–3144	Pulley	1
4	74–8100	Gear–Pinion	1
5	74–8110	Sprocket–Pump, Oil	1
6	74–8120	Key–Woodruff	2
7	94–3150	Screw–Cap, HH	4
8	94–3151	Washer	6
9	74–8140	Cover	1
10	74–8150	Gasket–Cover	1
11	94–3148	Seal–Shaft	1
12	74–8170	Set–Bearing (Std.) Set of 10 Half Bearings	1
*	74–8180	Set–Bearing (.30mm OS) Set of 10 Half Bearings	1
13	94–3141	Set–Bearing, Thrust (Std.)	2
*	74–8200	Set–Bearing, Thrust (.10mm OS)	2
*	74–8210	Set–Bearing, Thrust (.15mm OS)	2
*	74–8220	Set–Bearing, Thrust (.20mm OS)	2
14	74–8230	Crankshaft	1

Ref. No.	Part No.	Description	No. Used
15	74–8240	Seal	1
16	74–7990	Pin	1
17	94–3149	Gear–Flywheel	1
18	74–8270	Pin	3
19	74–8280	Screw–Cap, HH	8
20	74–8290	Seal–#1 Bearing Cap	2
21	74–8300	Clip–Pin, Piston	8
22	74–8310	Pin–Piston	4
23	94–3158	Set–Ring, Piston (Std.)	4
*	74–8320	Set–Ring, Piston – 0.20 mm	4
*	74–8330	Set–Ring, Piston – 0.50 mm	4
*	74–8340	Set–Ring, Piston – 0.80 mm	4
24	98–9965	Bushing–Sleeve	4
25	74–8360	Rod–Connecting, Set of 4 (Incl. Ref. #24)	1
26		Nut–Hex	8
27	74–8380	Bearing–Rod, Connecting (Std.) Set of 8 Half Bearings	1
*	74–8390	Bearing–Rod, Connecting (49.7mm ID) Set of 8 Half Bearings	1
28	74–8400	Bolt–Rod, Connecting (Incl. Ref. #26)	8

*Not Illustrated



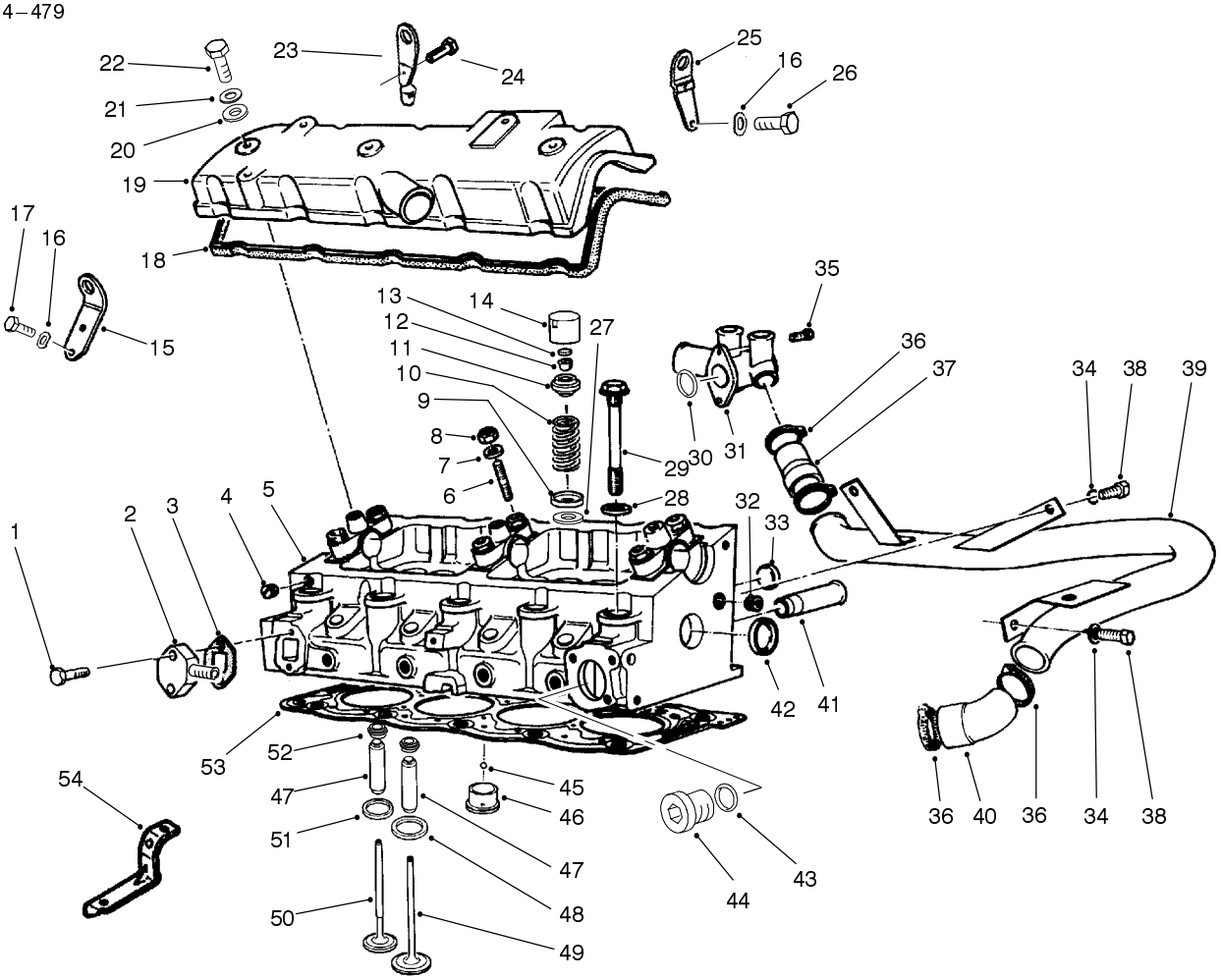
Crankshaft Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
29	94 – 3157	Set – Piston – Std. (Incl. Ref. #21 – 23)	1
29	74 – 8420	Set – Piston – Stage #1 (83.13mm OD) (Incl. Ref. #21 – 23)	1
*	74 – 8430	Set – Piston – Stage #2 (83.43mm OD) (Incl. Ref. #21 – 23)	1

Ref. No.	Part No.	Description	No. Used
*	74 – 8440	Set – Piston – Stage #3 (83.73mm OD) (Incl. Ref. #21 – 23)	1
33	94 – 3152	Screw – Cap, HH	2
34	74 – 8260	Flywheel	1

*Not Illustrated

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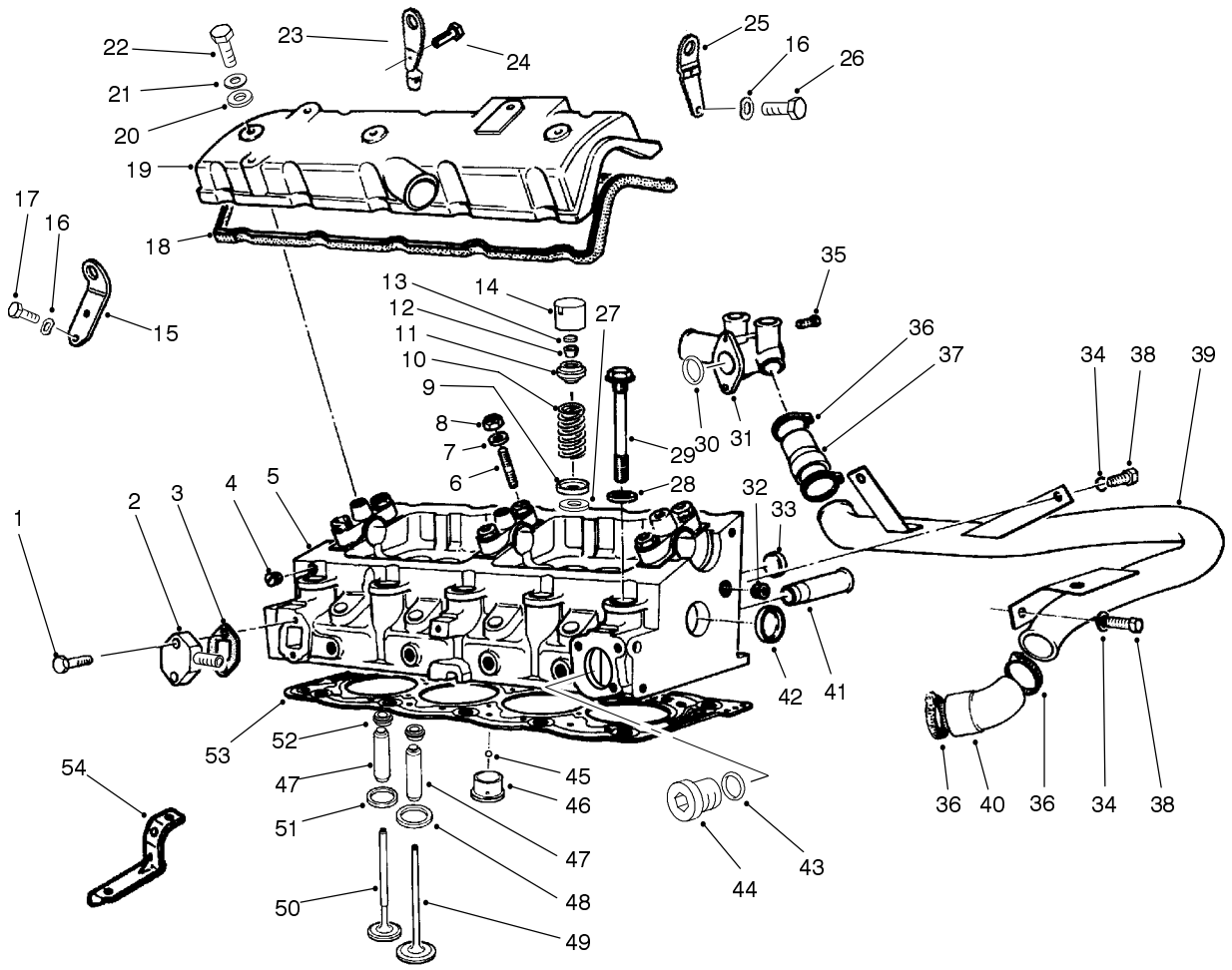
T–2148–5

Cylinder Head Assembly

Ref. No.	Part No.	Description	No. Used
1	94–3123	Screw–Cap, HH	2
2	94–3117	Plate	1
3	94–3116	Gasket	1
4	74–7600	Plug	4
5	94–3113	Cylinder Head Assembly	1
6	76–5130	Stud	6
7	74–8900	Washer–Flat	6
8	94–3115	Nut–Lock	6
9	74–6570	Cup–Lower Valve Spring	8
10	74–6560	Spring–Valve	8
11	74–6550	Cup–Valve Spring, Upper	8
12	74–7240	Collar–Split	16
13	74–6580	Insert–Valve (1.650mm)	8
*	74–6590	Insert–Valve (1.725mm)	8
*	74–6600	Insert–Valve (1.800mm)	8
*	74–6610	Insert–Valve (1.900mm)	8
*	74–6620	Insert–Valve (1.975mm)	8
*	74–6630	Insert–Valve (2.050mm)	8
*	74–6640	Insert–Valve (2.125mm)	8
*	74–6650	Insert–Valve (2.225mm)	8
*	74–6660	Insert–Valve (2.250mm)	8
*	74–6670	Insert–Valve (2.275mm)	8
*	74–6680	Insert–Valve (2.300mm)	8
*	74–6690	Insert–Valve (2.325mm)	8
*	74–6700	Insert–Valve (2.350mm)	8
*	74–6710	Insert–Valve (2.375mm)	8

Ref. No.	Part No.	Description	No. Used
13	74–6720	Insert–Valve (2.400mm)	8
*	74–6730	Insert–Valve (2.425mm)	8
*	74–6740	Insert–Valve (2.450mm)	8
*	74–6750	Insert–Valve (2.475mm)	8
*	74–6760	Insert–Valve (2.500mm)	8
*	74–6770	Insert–Valve (2.525mm)	8
*	74–6780	Insert–Valve (2.550mm)	8
*	74–6790	Insert–Valve (2.575mm)	8
*	74–6800	Insert–Valve (2.600mm)	8
*	74–6810	Insert–Valve (2.625mm)	8
*	74–6820	Insert–Valve (2.650mm)	8
*	74–6830	Insert–Valve (2.675mm)	8
*	74–6840	Insert–Valve (2.700mm)	8
*	74–6850	Insert–Valve (2.725mm)	8
*	74–6860	Insert–Valve (2.750mm)	8
*	74–6870	Insert–Valve (2.775mm)	8
*	74–6880	Insert–Valve (2.800mm)	8
*	74–6890	Insert–Valve (2.825mm)	8
*	74–6900	Insert–Valve (2.850mm)	8
*	74–6910	Insert–Valve (2.875mm)	8
*	74–6920	Insert–Valve (2.900mm)	8
*	74–6930	Insert–Valve (2.925mm)	8
*	74–6940	Insert–Valve (2.950mm)	8
*	74–6950	Insert–Valve (2.975mm)	8
*	74–6960	Insert–Valve (3.000mm)	8
*	74–6970	Insert–Valve (3.025mm)	8

*Not Illustrated



T–2148–5

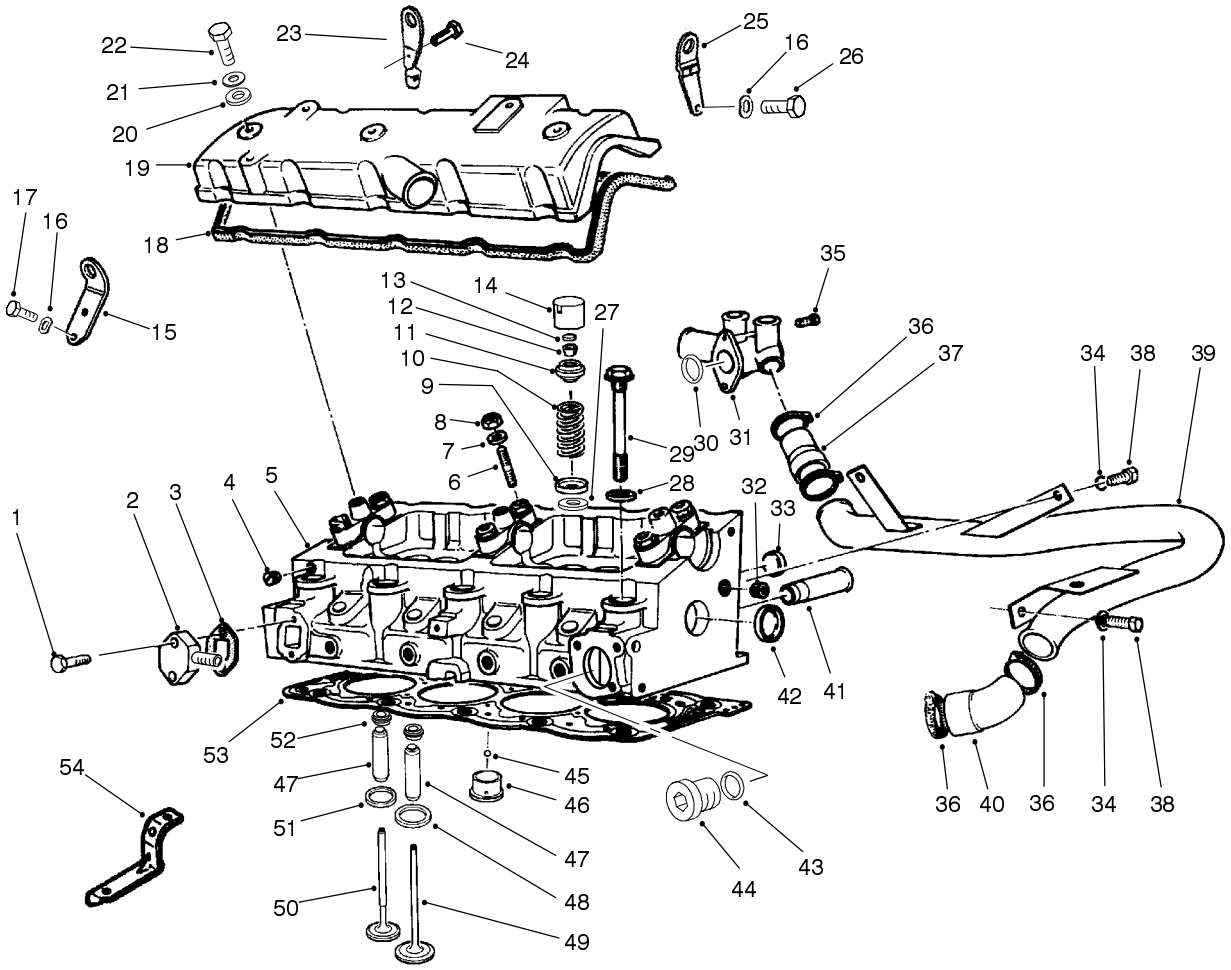
Cylinder Head Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
13	74–6980	Insert–Valve (3.050mm)	8
*	74–6990	Insert–Valve (3.075mm)	8
*	74–7000	Insert–Valve (3.100mm)	8
*	74–7010	Insert–Valve (3.125mm)	8
*	74–7020	Insert–Valve (3.150mm)	8
*	74–7030	Insert–Valve (3.175mm)	8
*	74–7040	Insert–Valve (3.200mm)	8
*	74–7050	Insert–Valve (3.225mm)	8
*	74–7060	Insert–Valve (3.250mm)	8
*	74–7070	Insert–Valve (3.275mm)	8
*	74–7080	Insert–Valve (3.300mm)	8
*	74–7090	Insert–Valve (3.325mm)	8
*	74–7100	Insert–Valve (3.350mm)	8
*	74–7110	Insert–Valve (3.375mm)	8
*	74–7120	Insert–Valve (3.400mm)	8
*	74–7130	Insert–Valve (3.425mm)	8
*	74–7140	Insert–Valve (3.450mm)	8
*	74–7150	Insert–Valve (3.475mm)	8
*	74–7160	Insert–Valve (3.500mm)	8
*	74–7170	Insert–Valve (3.550mm)	8
*	74–7180	Insert–Valve (3.625mm)	8
*	74–7190	Insert–Valve (3.700mm)	8
*	74–7200	Insert–Valve (3.775mm)	8
*	74–7210	Insert–Valve (3.850mm)	8
*	74–7220	Insert–Valve (3.925mm)	8
*	74–7230	Insert–Valve (4.000mm)	8

Ref. No.	Part No.	Description	No. Used
14	74–6540	Tappet–Valve	8
15	94–3135	Bracket–Lifting	1
16	74–7560	Washer–Spring	3
17	76–5470	Screw	2
18	74–7630	Gasket–Cover, Valve	1
19	74–7640	Cover–Valve	1
20	74–7650	Washer–Flat	3
21	94–3125	Washer	3
22	94–3124	Bolt–Cover, Valve	3
23	94–3136	Bracket–Lifting	1
24	94–3138	Screw–HH	1
25	94–3137	Bracket–Lifting	1
26	94–3139	Screw	1
27	94–3174	Washer	8
28	74–7270	Washer–Flat	10
29	74–7260	Bolt–Head	10
30	94–3197	O–Ring	1
31	94–3196	Inlet–Water	1
32	94–3118	Plug	1
33	74–7840	Plug–27 mm Dia.	2
*	94–3108	Plug–27.5 mm Dia.	2
*	94–3109	Plug–28.5 mm Dia.	2
34	68–9420	Washer–Lock	3
35	94–3198	Screw	2
36	2412–129	Clamp–Hose	4
37	94–3200	Hose–By–Pass	1

*Not Illustrated

3324–479



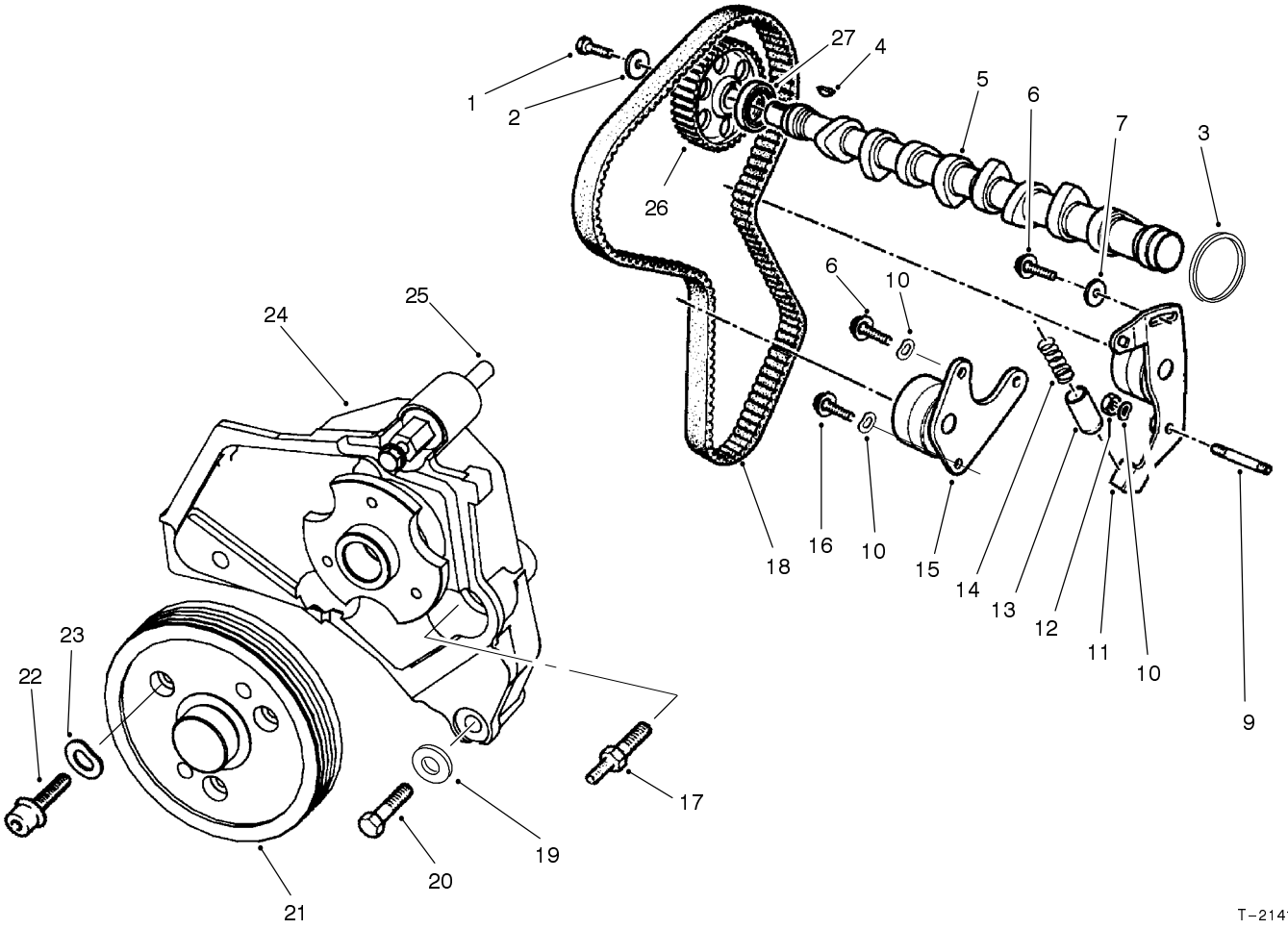
T–2148–5

Cylinder Head Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
38	48–7700	Screw–Cap, HH	3
39	94–3199	Pipe–By–Pass	1
40	98–9971	Hose–By–Pass	1
41	74–7400	Tube	1
42	74–7840	Plug	2
43	94–3122	Gasket	1
44	94–3121	Plug	1
45	74–7420	Ball	4
46	74–7430	Chamber–Turbulence (32.45mm)	4
*	74–7440	Chamber–Turbulence (32.65mm)	4
47	92–7792	Guide–Valve (14.29mm)	8
*	92–7793	Guide–Valve (14.59mm)	8
48	74–7450	Seat–Valve, Intake (39.3mm)	4
*	74–7460	Seat–Intake Valve (39.5mm)	4

Ref. No.	Part No.	Description	No. Used
49	74–7480	Valve–Intake	4
50	92–7794	Valve–Exhaust	4
51	92–7795	Seat–Valve, Exhaust (34.5mm)	4
52	92–7791	Seal–Valve	8
53	94–8132	Gasket–Head (1.48 mm)	1
*	94–8133	Gasket–Head (1.52 mm)	1
*	94–8134	Gasket–Head (1.58 mm)	1
*	94–8135	Gasket–Head (1.62 mm)	1
54	94–3120	Bracket	1
*	74–7670	Set– Head Bolt & Washer (Incl. Ref. #28 & 29)	1
*	94–3119	Kit–Gasket	1
*	94–9965	Cylinder Head Assembly (Complete with camshaft, valves & tappets)	1

*Not Illustrated

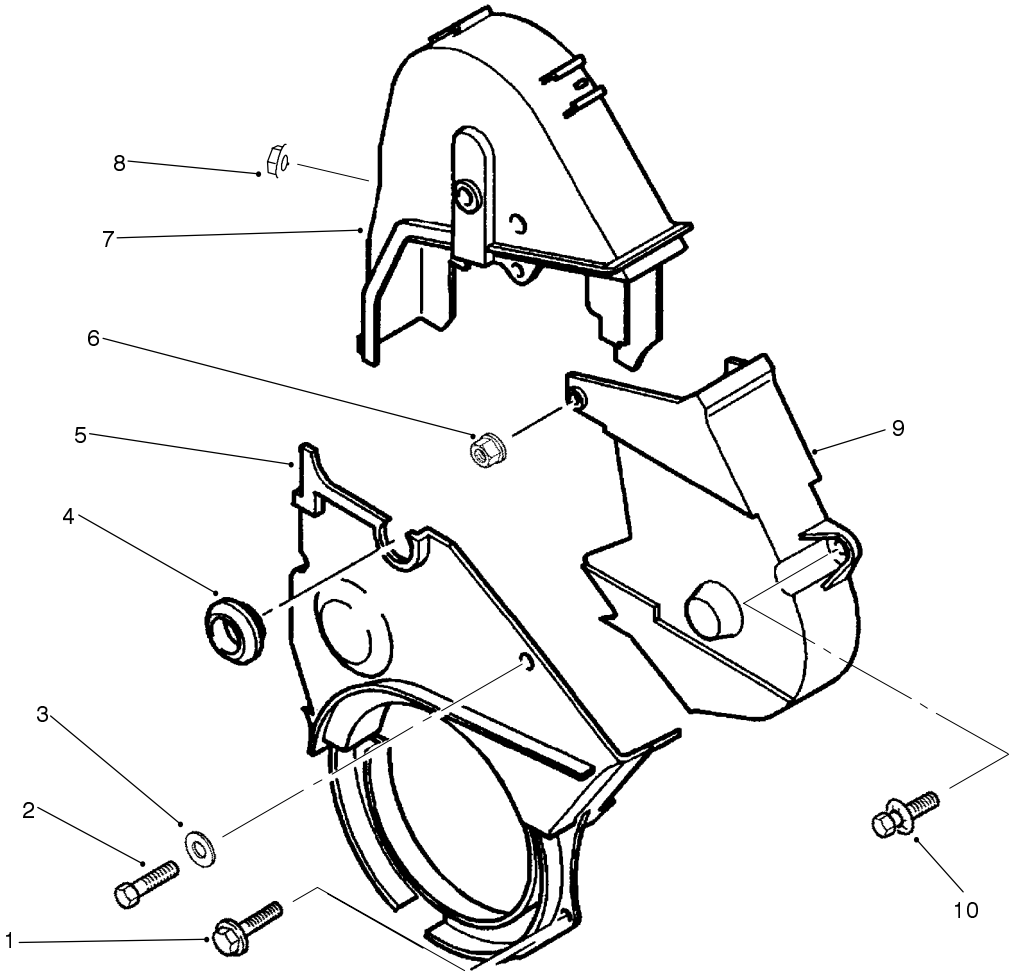


T–2141–2

Camshaft and Fan Support Assembly

Ref. No.	Part No.	Description	No. Used
1	98–9968	Screw	2
2	77–3450	Washer	2
3	77–3420	Gasket	1
4	98–9967	Key	1
5	77–3400	Camshaft	1
6	94–3163	Screw	1
7	94–3166	Washer–Flat	1
9	94–3162	Stud	1
10	94–3164	Washer–Spring	4
11	94–3159	Roller Assembly	1
12	94–3165	Nut–Lock	1
13	77–3520	Cup	1
14	77–3510	Spring	1

Ref. No.	Part No.	Description	No. Used
15	94–3160	Roller Assembly	1
16	94–3161	Screw	2
17	94–3170	Screw	1
18	74–8830	Belt	1
19	94–3172	Washer	3
20	94–3171	Screw	2
21	94–3168	Pulley–Fan	1
22	94–3173	Screw	3
23	76–5010	Washer	3
24	94–3167	Bracket–Fan	1
25	94–3169	Screw	1
26	98–9966	Pulley–Camshaft	1
27	94–9994	Gasket	1

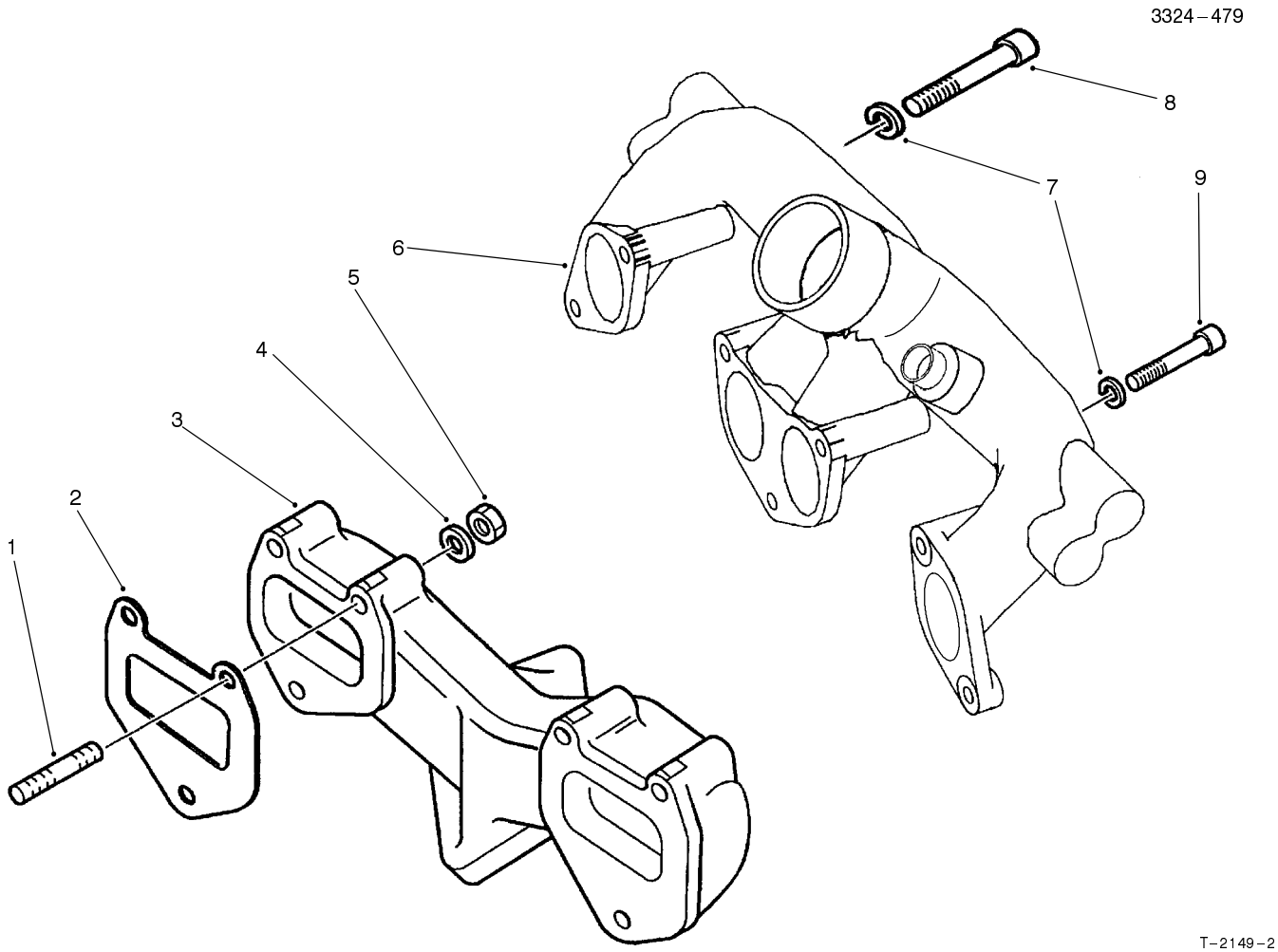


T–2140–1

Timing Cover

Ref. No.	Part No.	Description	No. Used
1	94–3132	Screw	2
2	94–3130	Screw	1
3	94–3125	Washer–Flat	1
4	94–3129	Plug	1
5	94–3126	Protector–Lower	1

Ref. No.	Part No.	Description	No. Used
6	94–3133	Nut w/Washer	1
7	94–3127	Case–Timing, Left	1
8	94–3134	Nut	1
9	94–3128	Case–Timing, Right	1
10	94–3131	Screw	1



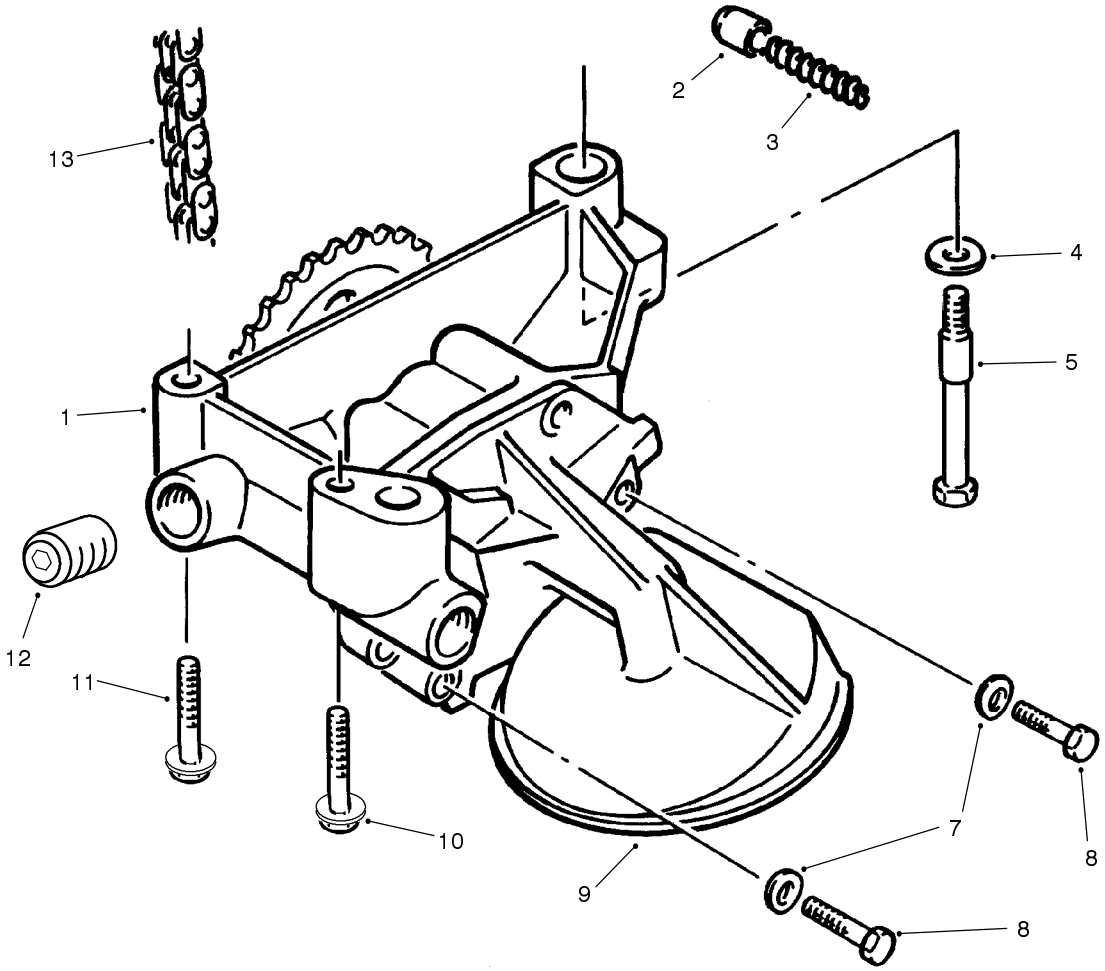
Intake and Exhaust Manifold Assembly

Ref. No.	Part No.	Description	No. Used
1	77–3300	Stud	6
2	77–3310	Gasket	2
3	77–3340	Manifold–Exhaust	1
4	68–9420	Washer–Lock	6
5	77–3320	Nut–Hex	6
6	94–3215	Manifold–Intake	1

Ref. No.	Part No.	Description	No. Used
7	94–3164	Washer–Spring	7
8	94–3216	Screw	5
9	94–3217	Screw	4
*	94–3218	Screw	1
*	94–2815	Sleeve–Flange, Exhaust	1
*	94–2814	Kit–Coupler, Exhaust	1

*Not Illustrated

3324–479

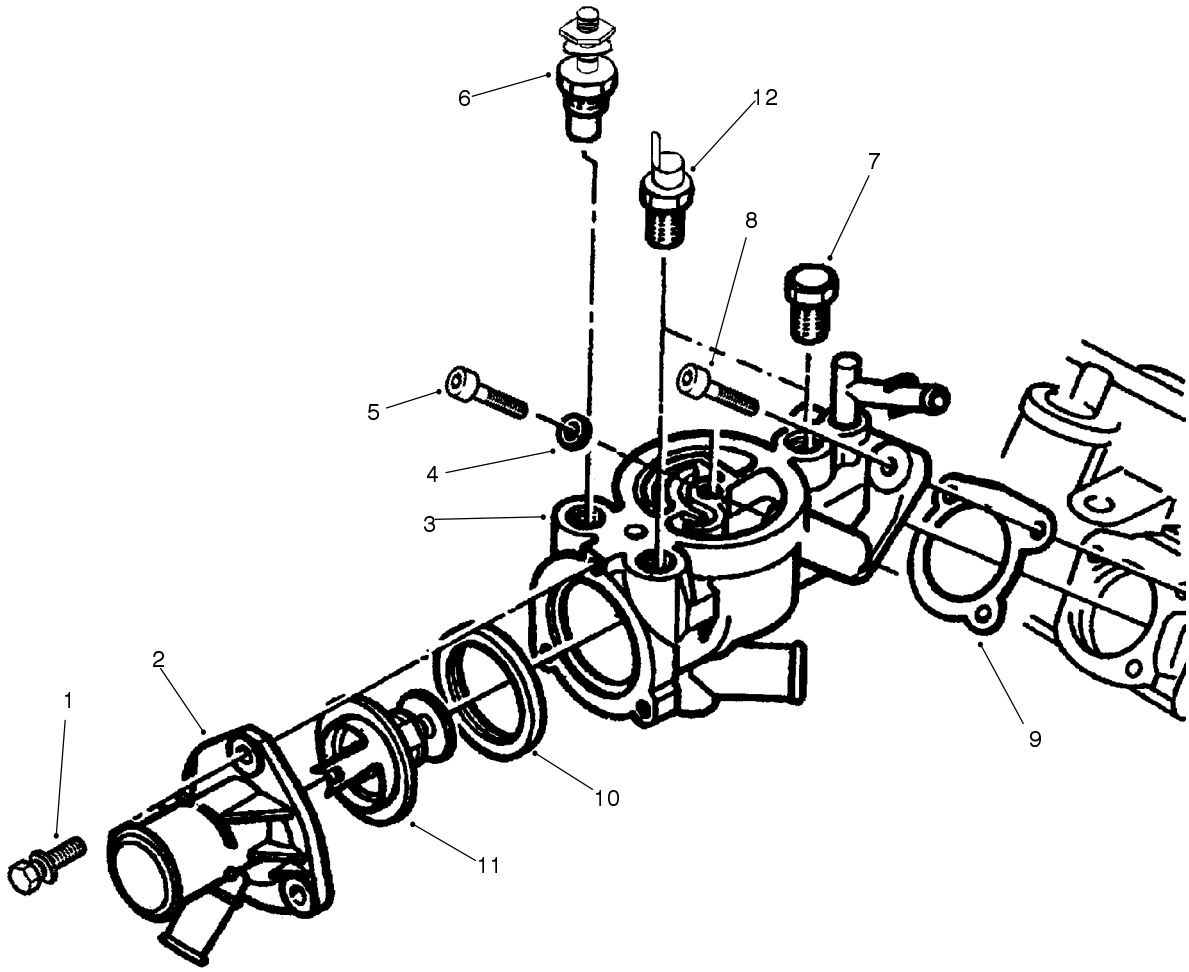


T–0964–1

Oil Pump Assembly

Ref. No.	Part No.	Description	No. Used
1	76–5070	Oil Pump Assembly	1
2	94–3176	Gear–Pump, Oil	1
3	76–5090	Spring–Piston	1
4	94–3179	Washer–Spring	3
5	76–5100	Bolt–Shoulder	1
7	76–5010	Washer–Spring	5

Ref. No.	Part No.	Description	No. Used
8	94–3124	Screw–Cap, HH	2
9	94–3178	Strainer	1
10	77–3470	Screw	1
11	77–3490	Screw	1
12	94–3177	Plug	2
13	76–5170	Chain–Drive, Pump	1

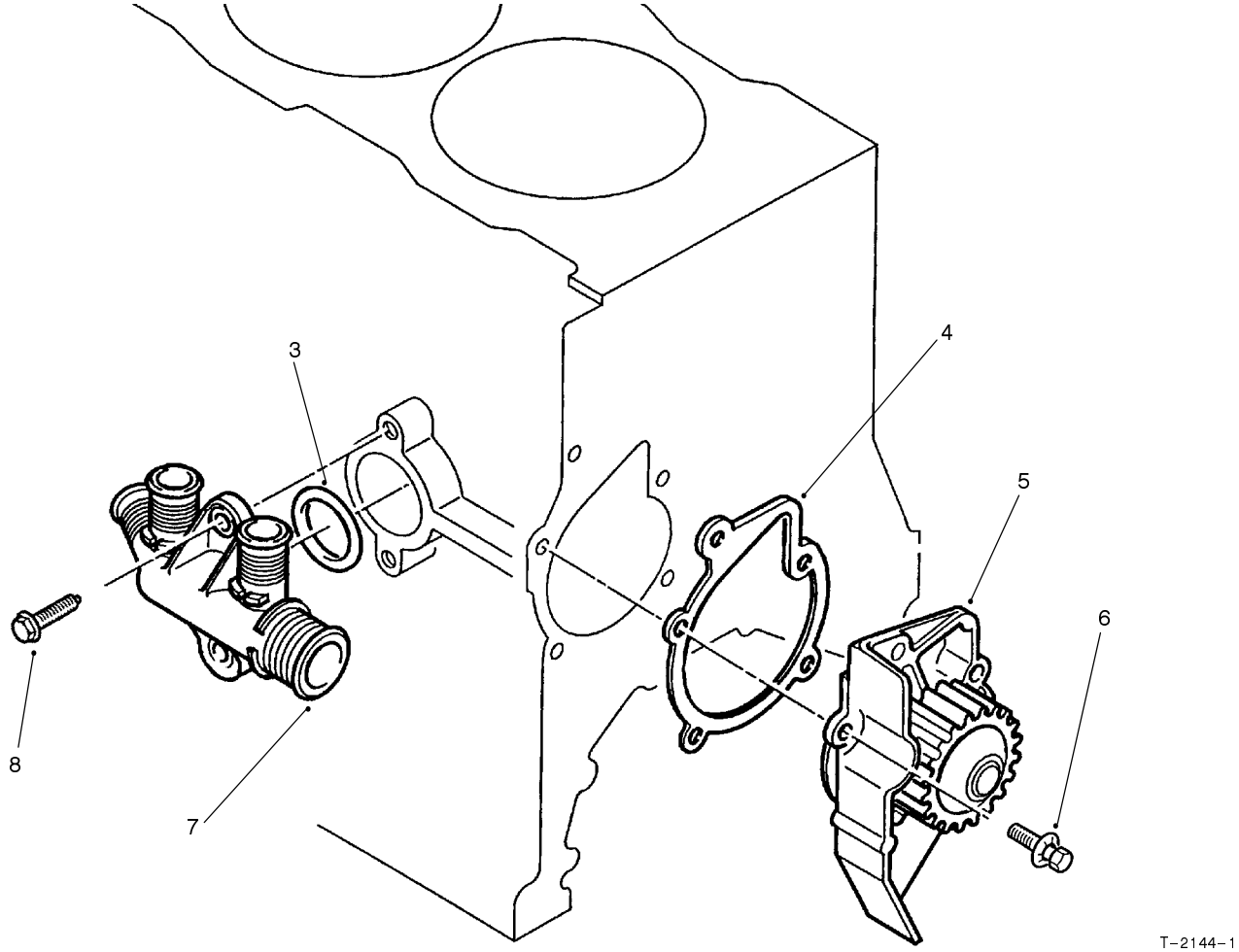


T–2143–1

Collector Assembly

Ref. No.	Part No.	Description	No. Used
1	94–3131	Screw	3
2	94–3208	Stub – Outlet	1
3	98–9970	Box – Outlet	1
4	94–3207	Ring	1
5	94–3214	Screw	1
6	76–5380	Temp. Sending Unit	1

Ref. No.	Part No.	Description	No. Used
7	94–3212	Plug	1
8	94–3213	Screw	1
9	94–3206	Gasket	1
10	94–3210	Gasket	1
11	94–3209	Thermostat	1
12	76–5400	Switch–Temperature, 105°C	1

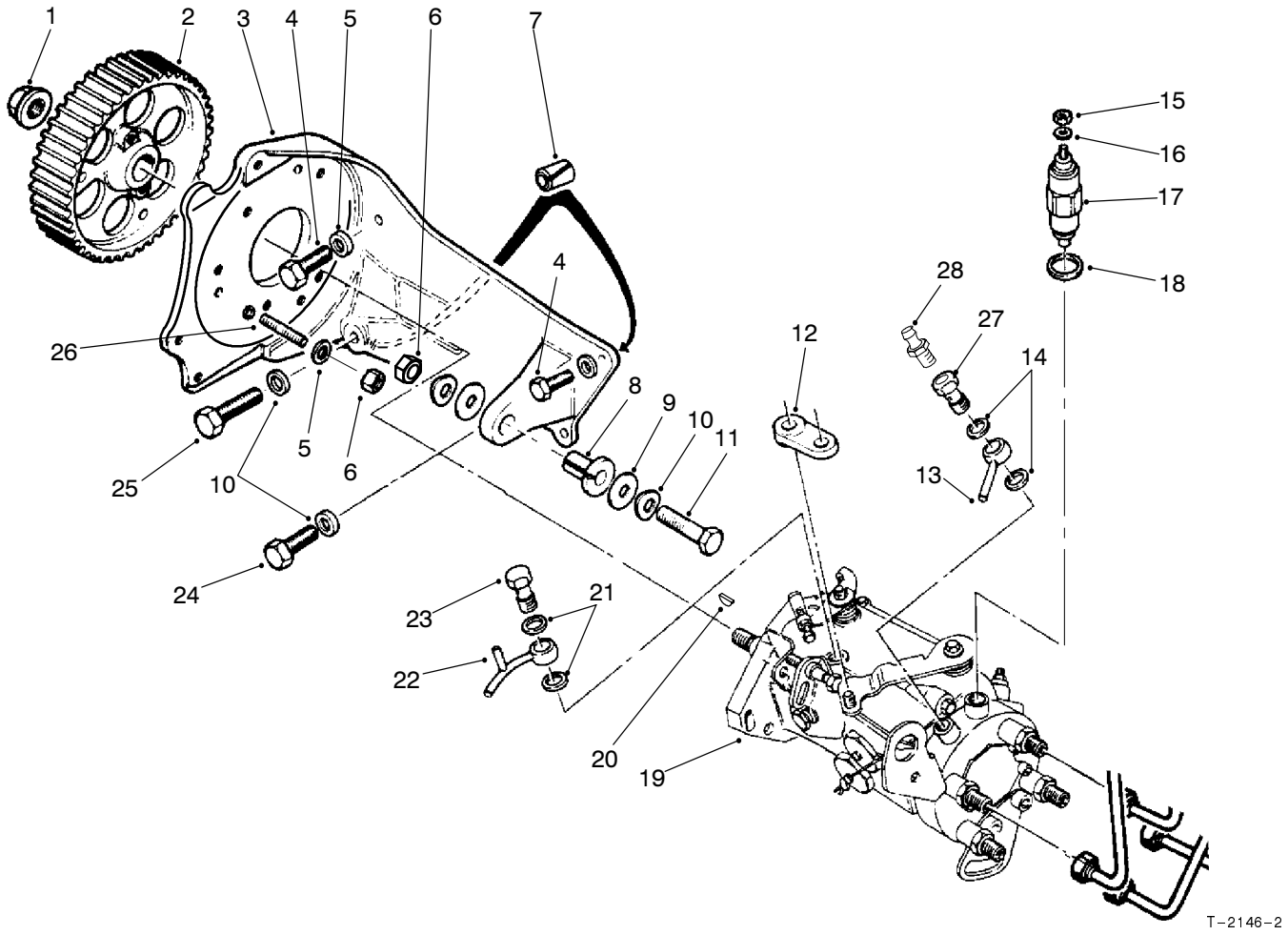


Water Pump Assembly

Ref. No.	Part No.	Description	No. Used
3	94–3197	O–Ring	1
4	98–3837	Gasket–Pump, Water	1
5	98–9972	Cover–Pump, Water (Incl. Ref. #4)	1
6	76–5500	Screw	5
7	94–3196	Inlet–Water	1

Ref. No.	Part No.	Description	No. Used
8	94–3198	Screw	2
*	94–9983	Box–Degassing	1
*	94–9984	Sensor–Level, Water	1
*	94–2800	Cap–Pressure	1
*	94–2801	Grommet–Rubber	2

*Not Illustrated

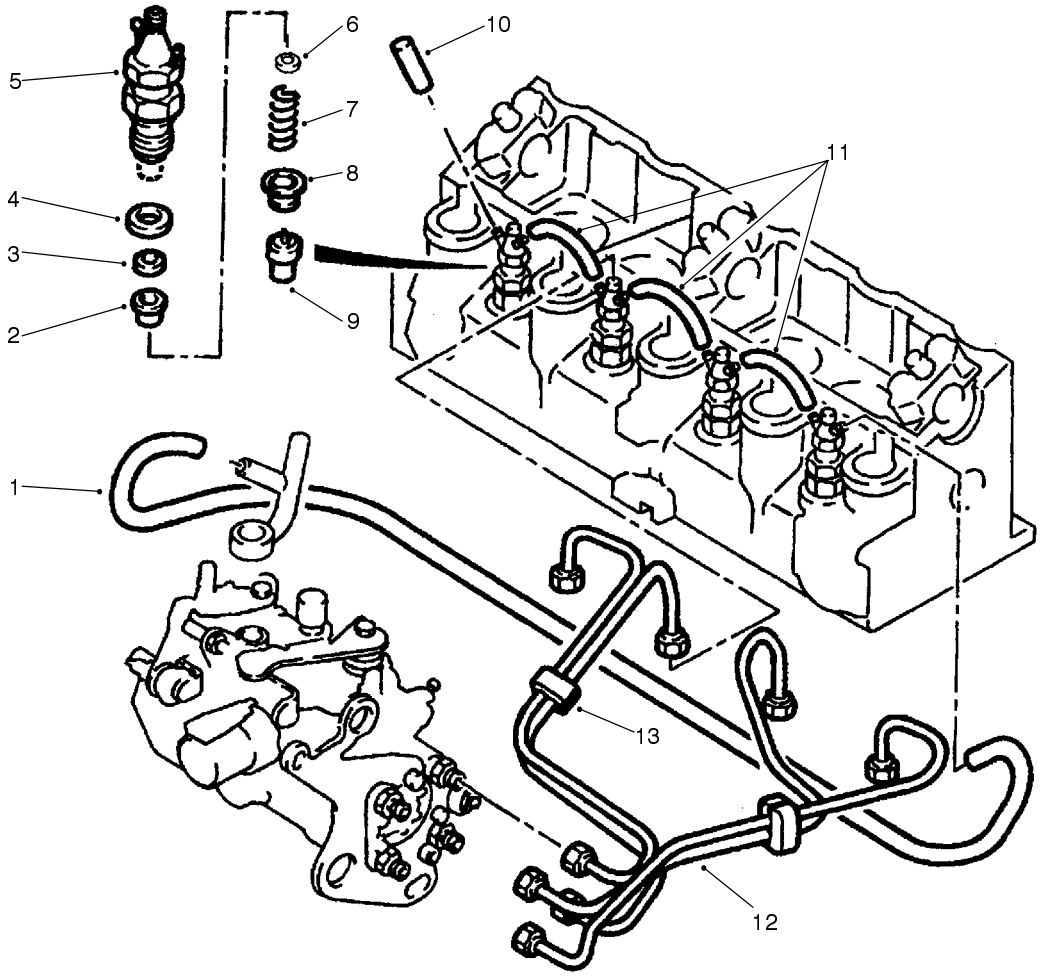


Fuel Injection Pump Assembly

Ref. No.	Part No.	Description	No. Used
1	76–4950	Nut	1
2	76–4940	Gear–Pump, Injection	1
3	94–3220	Bracket	1
4	94–3225	Screw	2
5	76–4930	Washer	3
6	94–3165	Nut	4
7	74–8610	Pin	2
8	74–8630	Bushing–Flange	1
9	94–3224	Washer–Flat	2
10	94–3164	Washer–Spring	6
11	94–3221	Screw	1
12	74–8650	Journal	1
13	74–8690	Union–Inlet	1
14	74–8680	Gasket	2

Ref. No.	Part No.	Description	No. Used
15	94–3251	Nut	1
16	74–8710	Washer	1
17	93–5856	Valve–Solenoid	1
18	94–3274	O–Ring	1
19	94–3219	Pump–Injection	1
20	94–3222	Key	1
21	74–8870	Gasket	2
22	94–3249	Tube–Outlet	1
23	94–3250	Screw–Connection	1
24	94–3161	Screw	1
25	94–3223	Screw	1
26	76–4910	Stud	3
27	94–9969	Screw–Connection	1
28	93–5835	Screw–Purge	1

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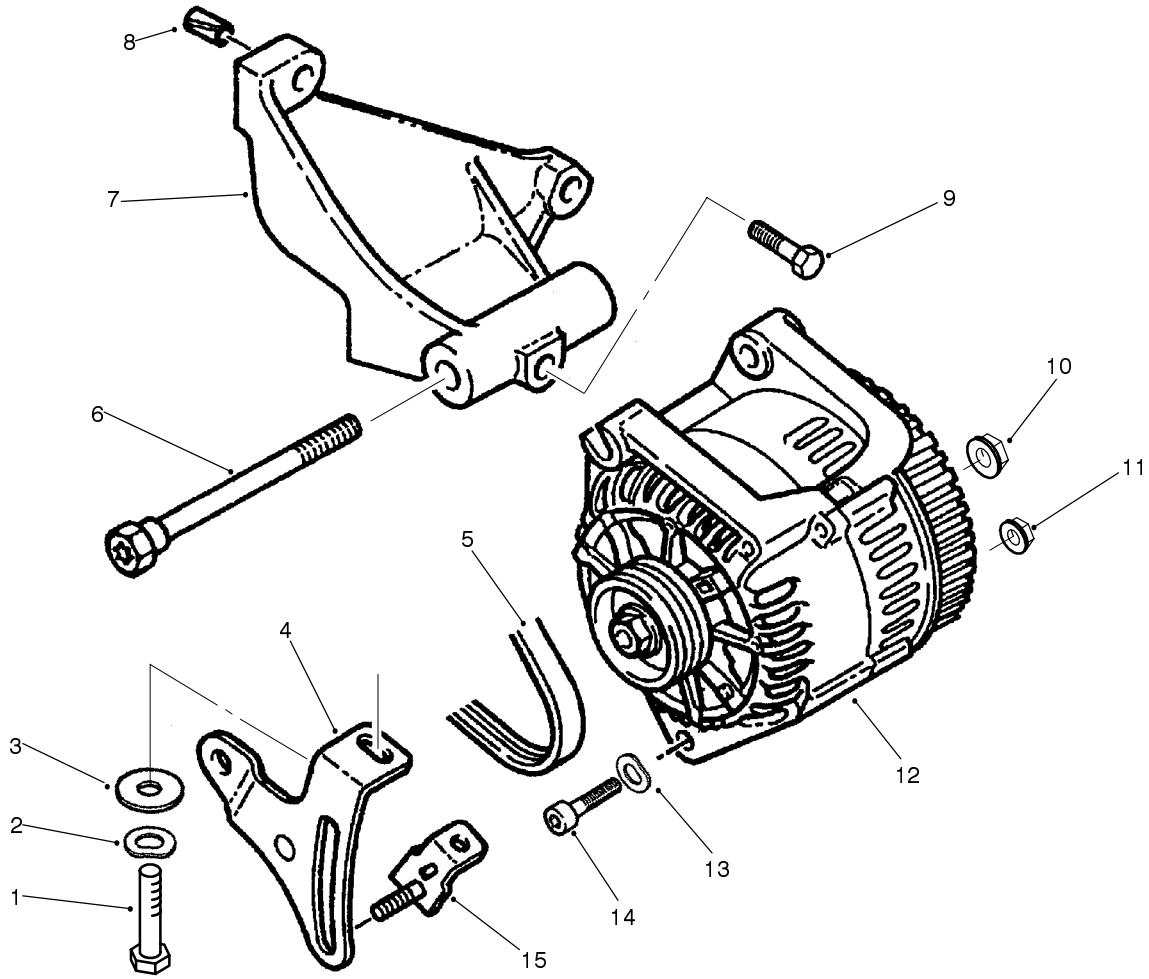
T–2145–1

Fuel Injector Assembly

Ref. No.	Part No.	Description	No. Used
1	94–3230	Hose	1
2	76–5540	Plug	4
3	76–5530	Gasket–Injector	4
4	94–3226	Gasket–Injector	4
5	76–5520	Holder–Injector	4
6	94–3232	Washer–0.79 mm	4
*	94–3233	Washer–0.82 mm	4
*	94–3234	Washer–0.85 mm	4
*	94–3235	Washer–0.88 mm	4
*	94–3236	Washer–0.91 mm	4
*	94–3237	Washer–0.94 mm	4
*	94–3238	Washer–0.97 mm	4
*	94–3239	Washer–1.00 mm	4
*	94–3240	Washer–1.03 mm	4
*	94–3241	Washer–1.06 mm	4

Ref. No.	Part No.	Description	No. Used
6	94–3242	Washer–1.30 mm	4
*	94–3243	Washer–1.33 mm	4
*	94–3244	Washer–1.36 mm	4
*	94–3245	Washer–1.39 mm	4
*	94–3246	Washer–1.42 mm	4
*	94–3247	Washer–1.45 mm	4
*	94–3248	Washer–1.48 mm	4
7	94–3228	Spring	4
8	94–3227	Spacer	4
9	76–5600	Injector	4
10	74–8770	Plug	1
11	94–3229	Union	3
12	74–8750	Pipe	1
13	94–3231	Bracket	2
*	76–5600	Fuel Injector Assembly	4

*Not Illustrated

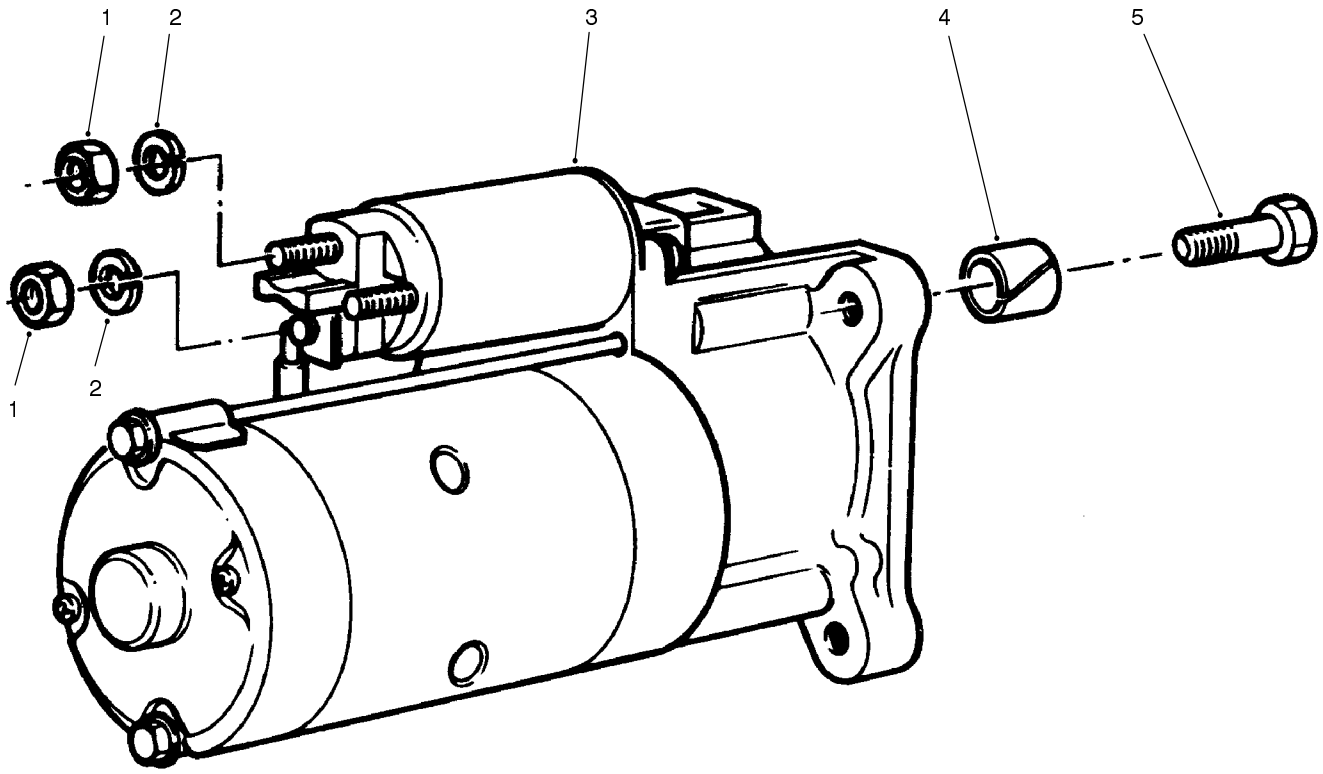


T–2147–1

Alternator Assembly

Ref. No.	Part No.	Description	No. Used
1	76–5060	Screw	1
2	76–5010	Washer–Spring	1
3	94–3260	Washer–Flat	1
4	94–3255	Slide	1
5	94–3256	Belt	1
6	94–3254	Screw	1
7	94–3253	Bracket	1
8	74–8610	Pin	2

Ref. No.	Part No.	Description	No. Used
9	76–5000	Screw	1
10	94–3262	Nut	1
11	94–3261	Nut	1
12	94–3252	Alternator	1
13	94–3257	Washer–Spring	1
14	94–3258	Screw	1
15	76–4990	Bracket	1



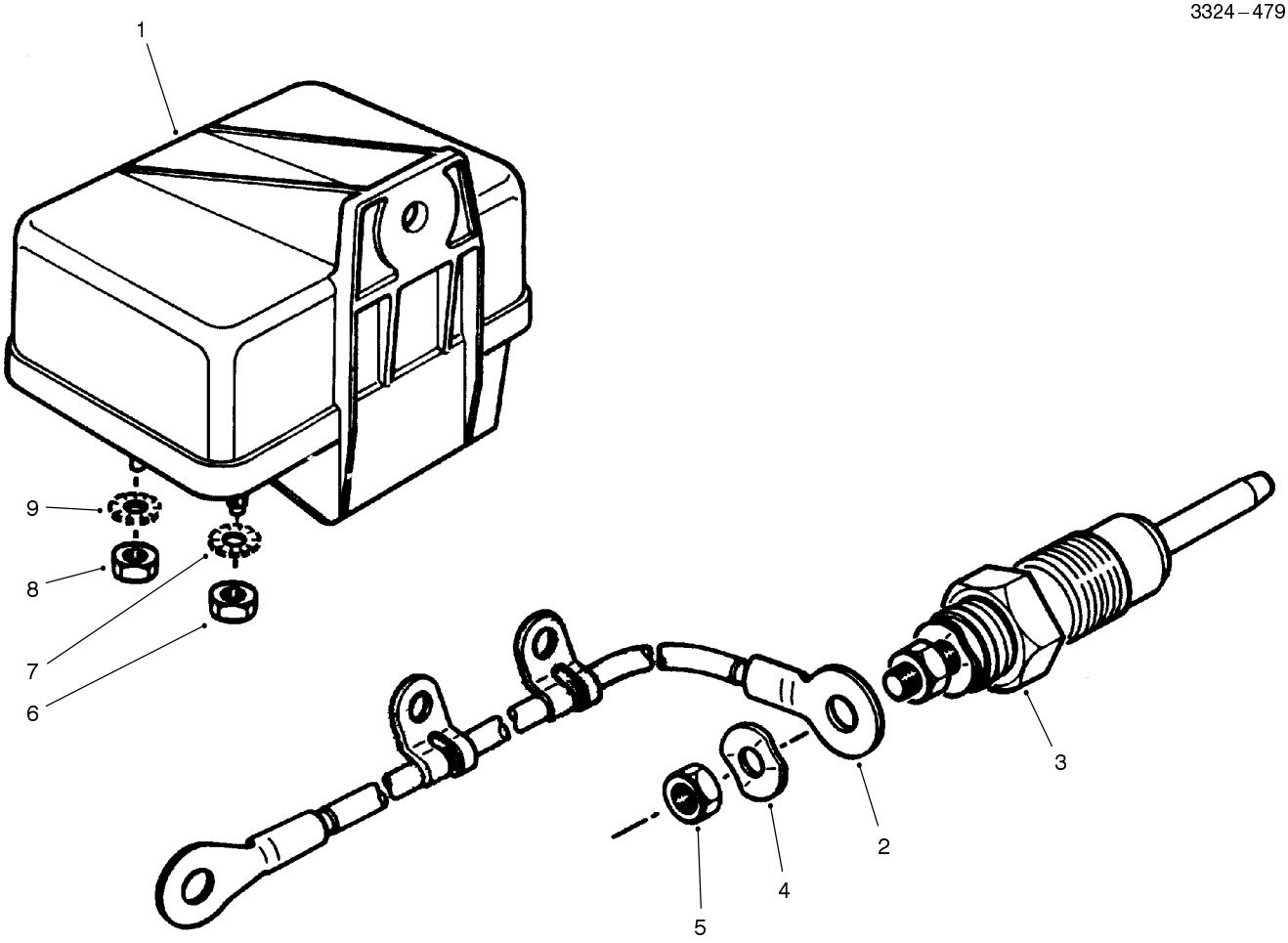
T–0968–1

Starter Assembly

Ref. No.	Part No.	Description	No. Used
1	46–0330	Nut–Hex	2
2	76–5570	Washer–Lock	2
3	94–3263	Starter	1

Ref. No.	Part No.	Description	No. Used
4	76–5590	Sleeve–Spring	1
5	48–7810	Screw–Mounting	3
*	94–3275	Solenoid–Starter	1

*Not Illustrated



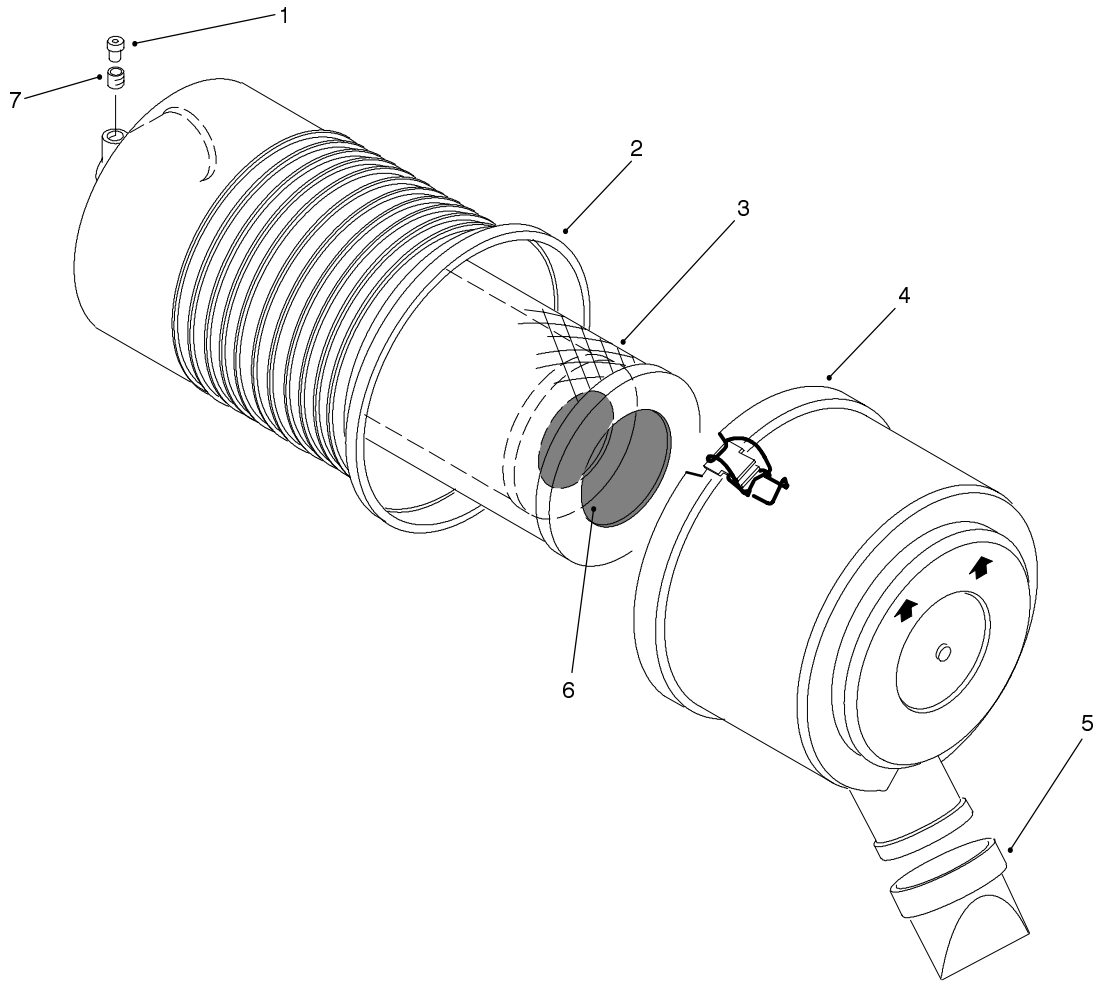
T – 0972 – 1

Glow Plug and Glow Relay Assembly

Ref. No.	Part No.	Description	No. Used
1	76–5260	Relay–Plug, Glow	1
2	94–3265	Cable–Plug, Glow	4
3	94–3264	Plug–Glow	4
4	76–5290	Washer–Spring	4
5	94–3266	Nut–Hex	4

Ref. No.	Part No.	Description	No. Used
6	94–3267	Nut–Lock	1
7	76–5310	Washer–E.T.L.W.	1
8	94–3251	Nut–Lock	1
9	74–8710	Washer–E.T.L.W.	1

3324–479

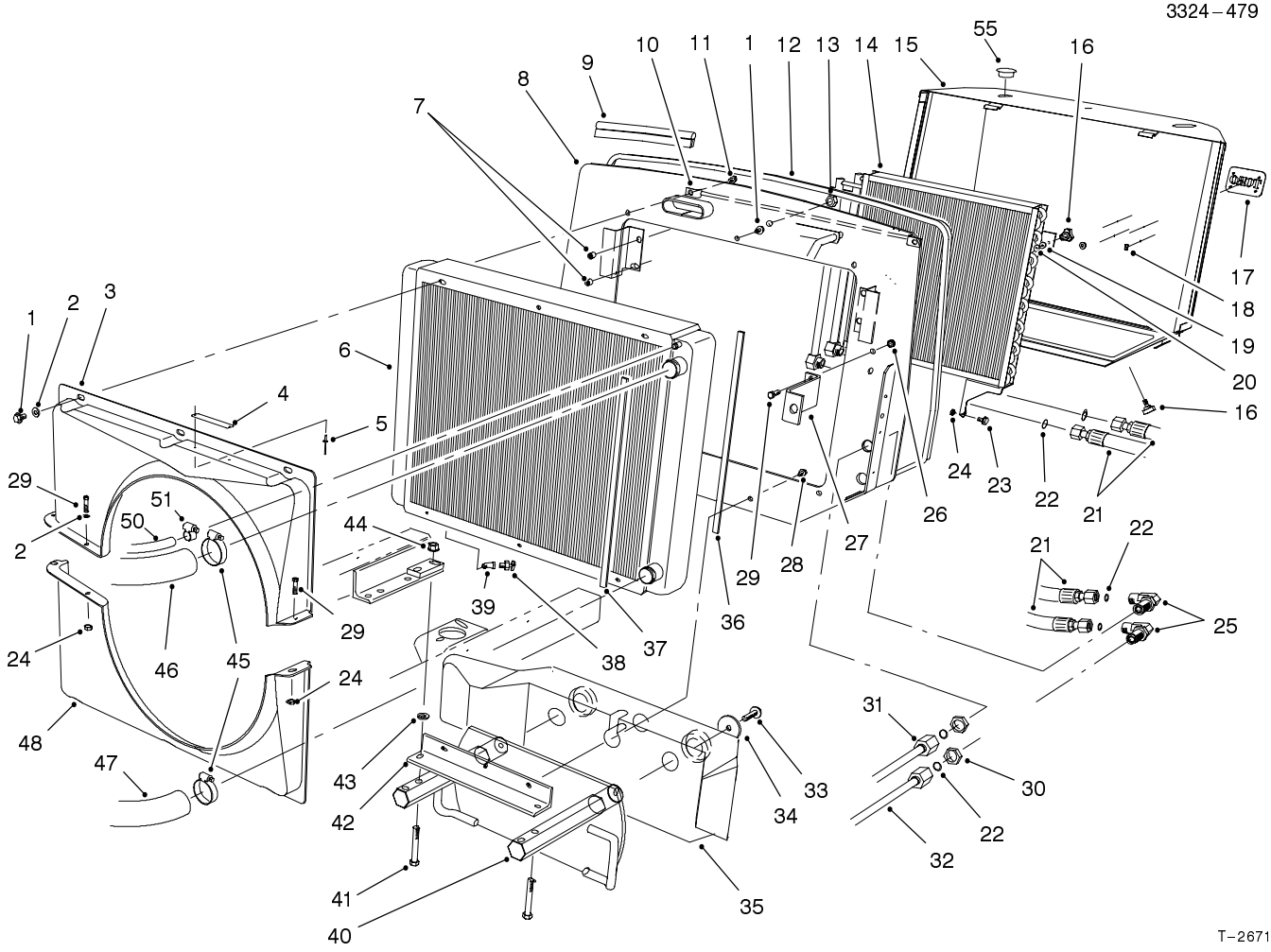


T–2076–1

Air Cleaner Assembly No. 100–2597

Ref. No.	Part No.	Description	No. Used
1	93–9164	Indicator	1
2		Body Assembly	1
3	93–9162	Filter–Primary	1
4		Cover Assembly	1

Ref. No.	Part No.	Description	No. Used
5	94–1414	Valve–Vacuator	1
6	93–9163	Filter–Safety	1
7	94–1416	Adaptor Assembly	1

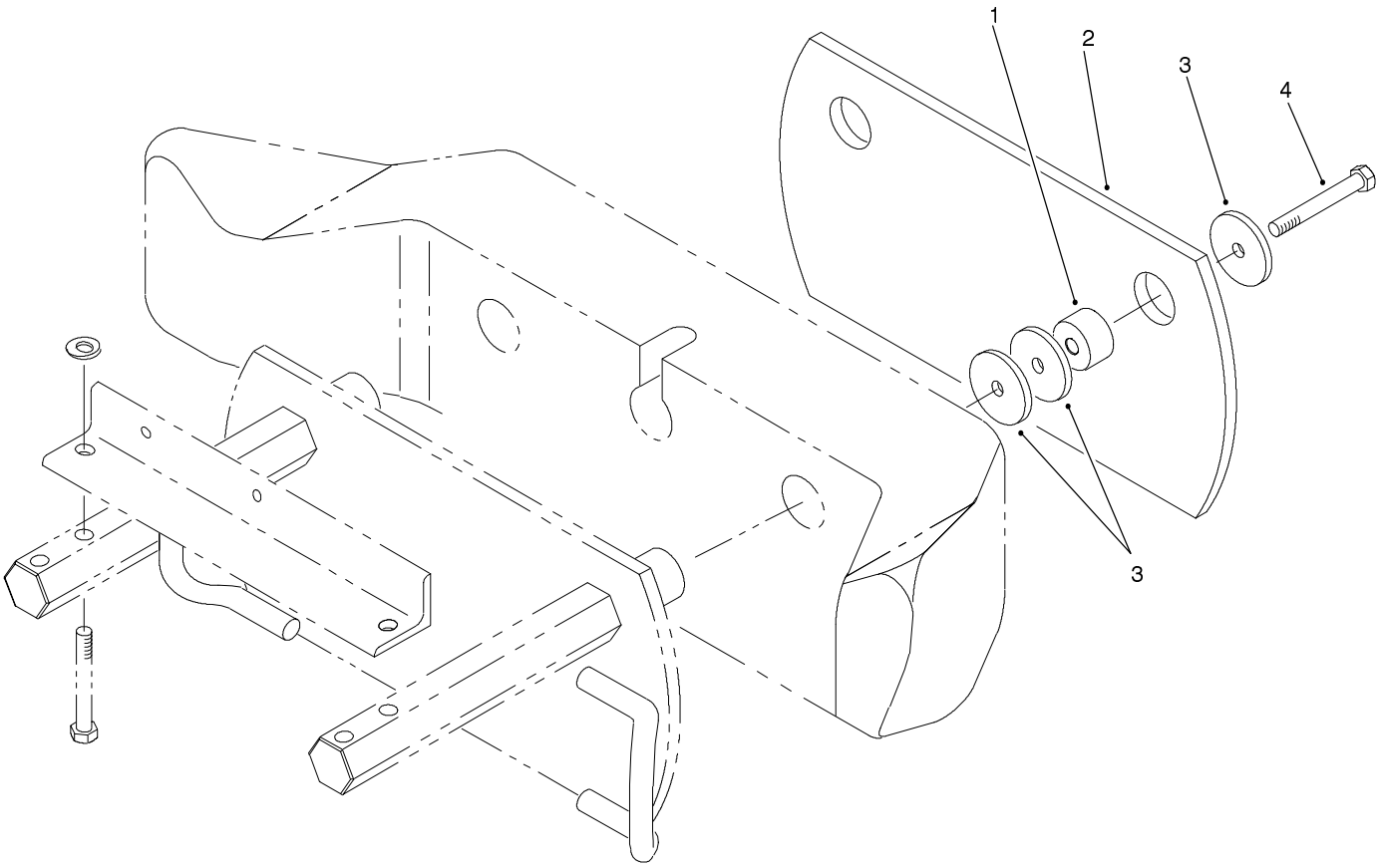


T–2671–1

Radiator Assembly

Ref. No.	Part No.	Description	No. Used
1	3234–30	Screw–HHF	10
2	3256–23	Washer–Flat	6
3	74–4980	Shroud–Fan, Upper	1
4	76–8750	Plate–Caution	1
5	3290–271	Rivet–Pop	2
6	74–3410	Radiator	1
7	32148–10	Insert–Threaded	4
8	93–7799	Radiator Mount Assembly (Incl. Ref. #7)	1
9	94–5616	Seal–Hood	1
10	94–5621–01	Screen Bracket Assembly	1
11	3234–14	Screw–HHF	2
12	94–5622	Seal Strip–Screen	1
13	3296–23	Nut–Lock, Hex	2
14	82–3740	Oil Cooler Assembly	1
15	94–5612–03	Screen Assembly	1
16	27–4570	Handle–Adjustment	4
17	93–6028	Plate–Logo, TORO	1
18	94–2638	Nut–Tinnerman	4
19	3256–3	Washer–Flat	2
20	32151–72	Retainer–Push–On	2
21	94–8010	Hose–Hydraulic	2
22	237–65	O–Ring	6
23	37–8771	Screw–HWH	2
24	3296–47	Nut–Lock	5
25	340–72	Fitting–Hydraulic, 90° (Incl. Ref. #22)	2

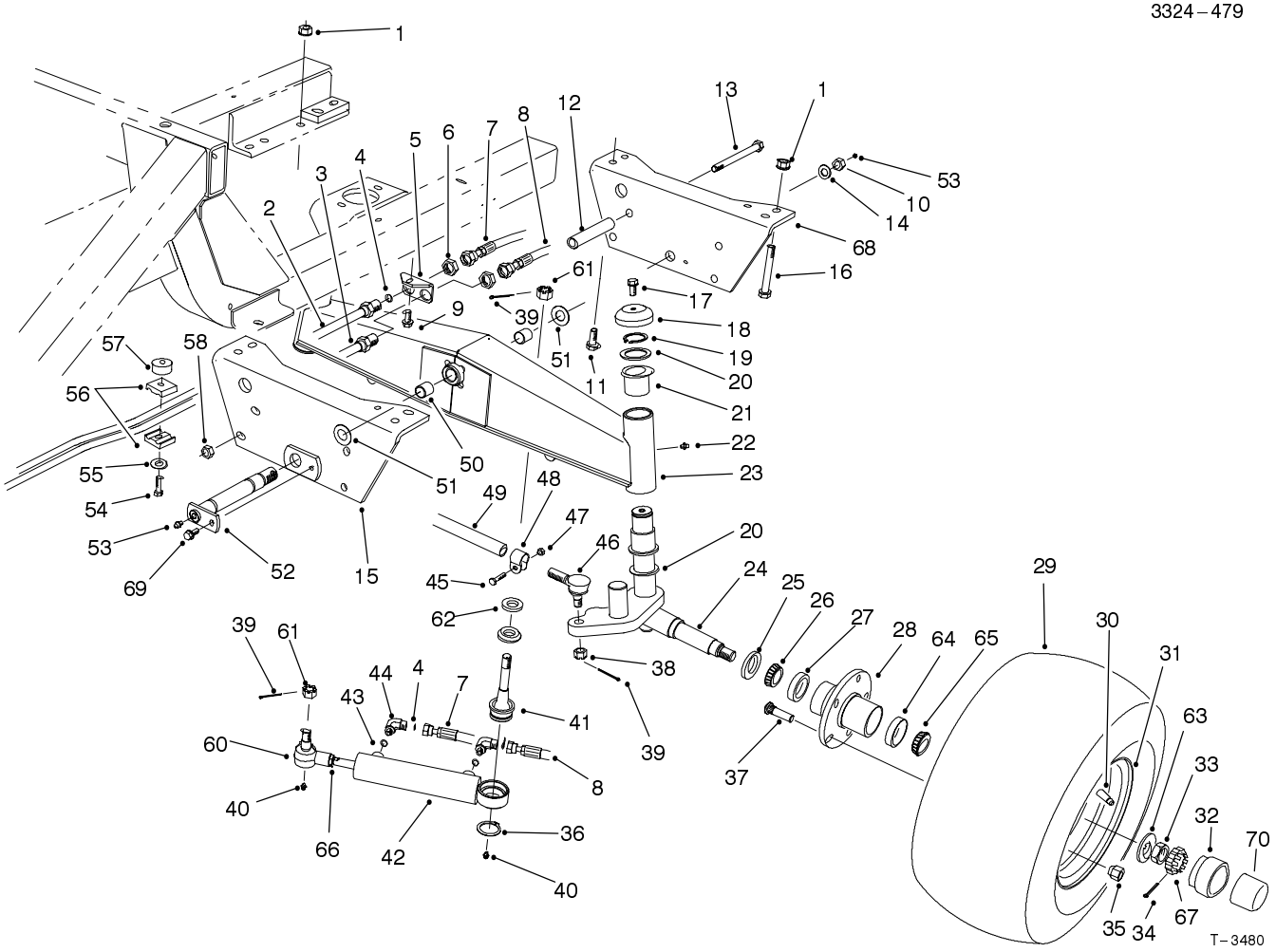
Ref. No.	Part No.	Description	No. Used
26	32128–20	Nut–Lock, Flange	2
27	93–7244–03	Bracket–Support	1
28	3234–11	Screw–HWH	5
29	322–4	Screw–Cap, HH	5
30	340–74	Nut–Bulkhead	2
31	74–6400	Tube Assembly	1
32	94–8298	Oil Cooler Tube Assembly	1
33	325–34	Screw–HHF	2
34	88–1360	Washer	2
35	92–9711–03	Weight–Rear	1
36	76–6381	Seal–Strip	2
37	76–6382	Seal–Strip	2
38	304–46	Cock–Drain	1
39	2811–1	Fitting–Elbow, 45°	1
40	98–7070	Weight–Rear	1
41	325–35	Screw–Cap, HH	2
42	74–5460–03	Support–Angle, Radiator	1
43	3256–26	Washer–Flat	2
44	32128–49	Nut–HF	2
45	2412–3	Clamp–Hose	2
46	94–1418	Hose–Radiator, Upper	1
47	74–6020	Hose–Radiator, Lower	1
48	74–4990	Shroud–Fan, Bottom	1
50	94–5625	Hose–Radiator, Overflow	1
51	2412–36	Clamp–Hose	1
55	2410–64	Plug–Hole	3



T–1946–1

Additional Weight Assembly

Ref. No.	Part No.	Description	No. Used
1	84–1570	Spacer	2
2	88–1220	Plate	2
3	88–1360	Washer–Weight, Rear	6
4	325–18	Screw–Cap, HH	2



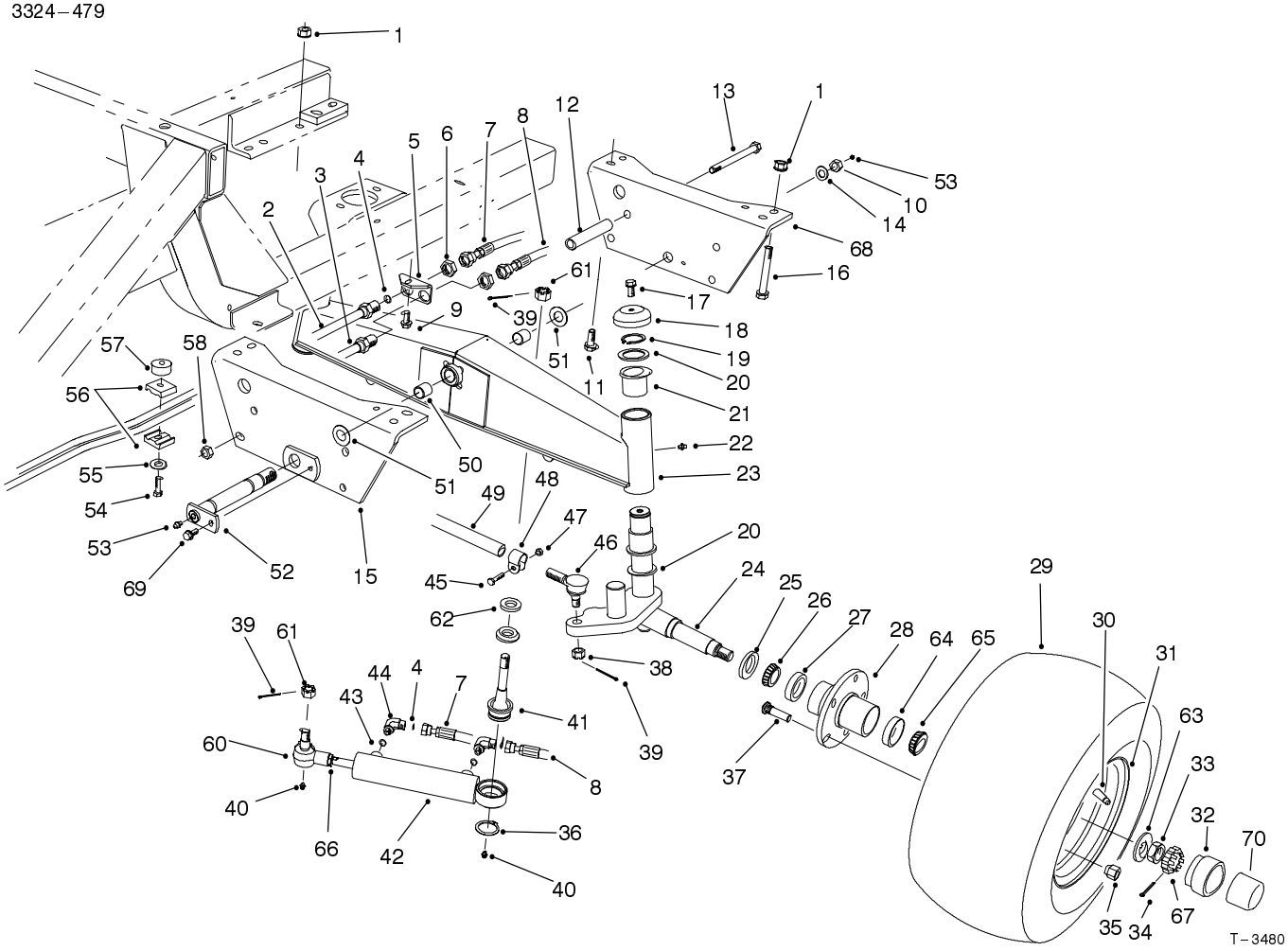
Rear Axle Assembly (Model No. 30450 Only)

Ref. No.	Part No.	Description	No. Used
1	32125–49	Nut–Lock, Flange	4
2	86–5780	Tube–Hydraulic, LH (Incl. Ref. #4)	1
3	86–5790	Tube–Hydraulic, RH (Incl. Ref. #4)	1
4	237–22	Seal–O–Ring	4
5	74–6450	Bracket–Bulkhead	1
6	340–70	Nut–Bulkhead	2
7	86–3130	Hose–Rod End, Hydraulic	1
8	86–3120	Hose–Cap End, Hydraulic	1
9	32144–11	Screw–HHF	1
10	94–8000	Nut–Lock	1
11	325–12	Screw–HHF	2
12	76–8350	Stop–Axle	2
13	325–20	Screw–Cap, HH	2
14	3256–29	Washer–Flat	1
15	93–7241	Plate–Axle Pivot, Front	1
16	325–35	Screw–Cap, HH	2
17	3234–12	Screw–Cap, HH	2
18	69–8890	Cap–Spindle	2
19	32151–10	Ring–Retaining	2
20	62–2170	Washer–Thrust	4
21	69–6470	Bushing–Flange	4
22	302–11	Fitting–Grease	2
23	94–5607	Rear Axle Assembly (Incl. Ref. #21–22 & 50)	1

Ref. No.	Part No.	Description	No. Used
24	92–9725	Spindle–LH	1
*	92–9724	Spindle–RH	1
25	69–2980	Seal–Inner	2
26	254–106	Cone–Bearing	2
27	254–107	Cup–Bearing	2
28	92–9651	Hub–Wheel (Incl. Ref. #27, 37, & 64)	2
29	86–5910	Tire	2
30	232–27	Stem–Valve	2
31	100–2582	Rim	2
32	100–3769	Cap–Hub	2
33	3220–7	Nut–Jam	2
34	3272–13	Pin–Cotter	2
35	242–50	Nut–Lug	10
36	32151–104	Ring–Retaining	1
37	92–9652	Stud–Drive	10
38	32136–13	Nut–Slotted	2
39	3272–12	Pin–Cotter	4
40	302–5	Fitting–Grease	2
41	92–5839	Joint–Ball	1
42	94–8142	Hydraulic Cylinder Asssembly	1
43	237–78	Seal–O–Ring	2
44	340–97	Fitting–Hydraulic, 90° (Incl. Ref. #4 & 43)	2
45	3210–5	Screw–Cap, HH	2

*Not Illustrated

3324–479

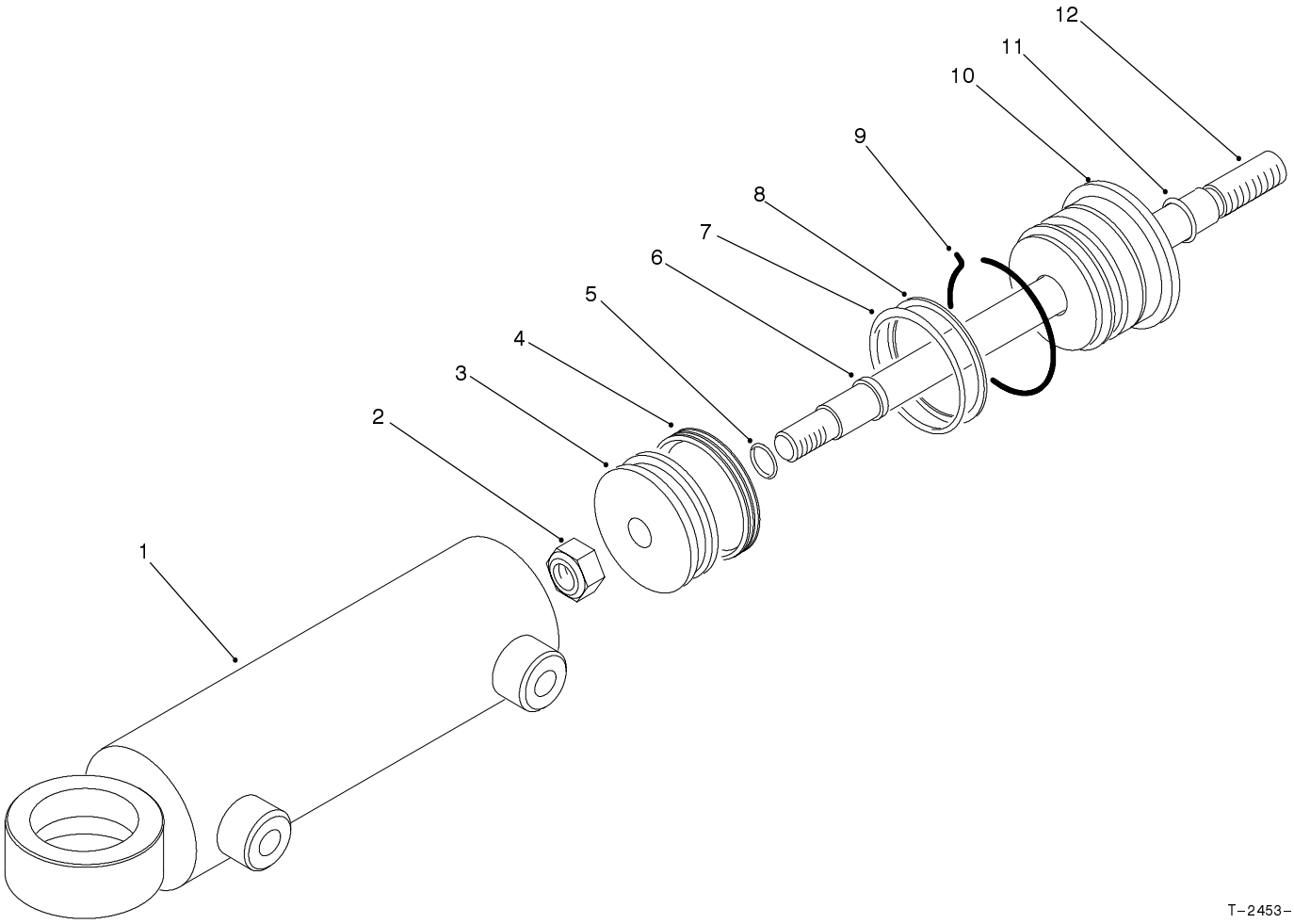


Rear Axle Assembly (Model No. 30450 Only) (Continued)

Ref. No.	Part No.	Description	No. Used
46	2411–46	Joint–Ball, LH (Incl. Ref. #38)	1
*	2411–45	Joint–Ball, RH (Incl. Ref. #38)	1
47	32152–5	Nut–Lock	2
48	2412–122	Clamp Assembly (Incl. Ref. #45 & 47)	2
49	2412–123	Tie Rod Assembly (Incl. Ref. #45, & 47–48)	1
50	94–5603	Bushing–Sleeve	2
51	93–7247	Washer–Thrust	2
52	93–7249	Pin–Pivot, Axle	1
53	302–2	Fitting–Grease	2
54	32104–37	Screw–Cap, HH	1
55	3256–71	Washer–Flat	1
56	56–7973	Clamp–Tube	2

Ref. No.	Part No.	Description	No. Used
57	80–8660	Spacer	1
58	3296–45	Nut–Lock	2
60	92–5837	Rod End Assembly (Incl. Ref. #40)	1
61	32136–14	Nut–SHH	2
62	92–5833	Spacer–Joint, Ball	1
63	93–0309	Washer–Tab	2
64	254–72	Cup–Bearing	2
65	254–92	Cone–Bearing	2
66	3220–11	Nut–Jam	1
67	93–0307	Nut–Retainer, Lock	2
68	93–7240	Plate–Axle Pivot, Rear	1
69	32144–41	Screw–HHF	1
*	74–5940	Tie Rod Assembly (Incl. Ref. #39, & 45–49)	1
70	100–3809	Cap–Bearing	2

*Not Illustrated



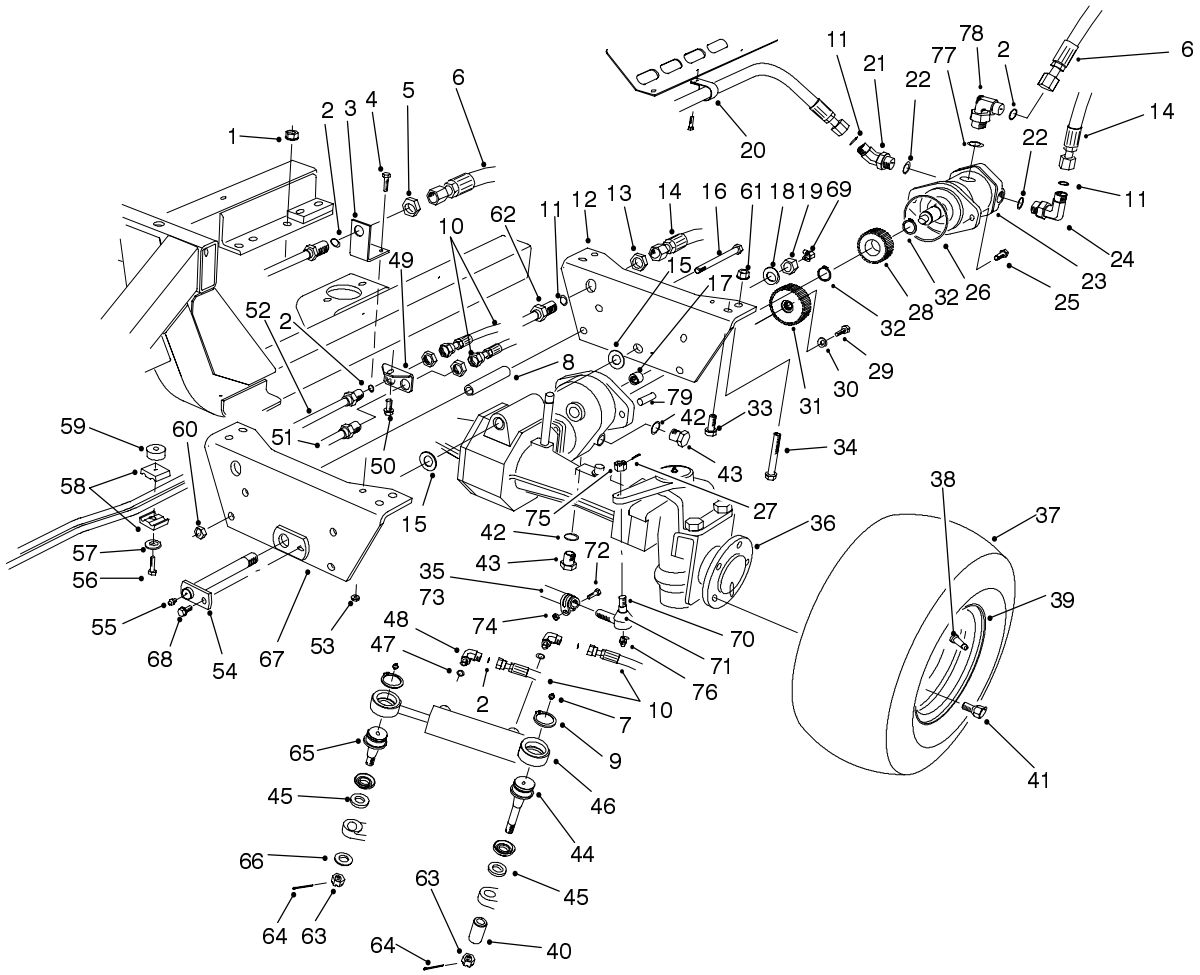
T–2453–1

Hydraulic Cylinder No. 94–8142
(Model No. 30450 Only)

Ref. No.	Part No.	Description	No. Used
1	94–9959	Barrel Assembly	1
2	32152–10	Nut–Lock	1
3	94–9961	Piston	1
4		Uniring	1
5		O–Ring	1
6		Seal–Rod	1
7		O–Ring	1

Ref. No.	Part No.	Description	No. Used
8		Backup	1
9	94–9963	Ring–Retaining	1
10	94–9962	Gland–Cylinder	1
11		O–Ring	1
12	94–9960	Piston Rod Assembly	1
*	94–9964	Kit–Seal (Incl. Ref. #4–8 & 11)	1

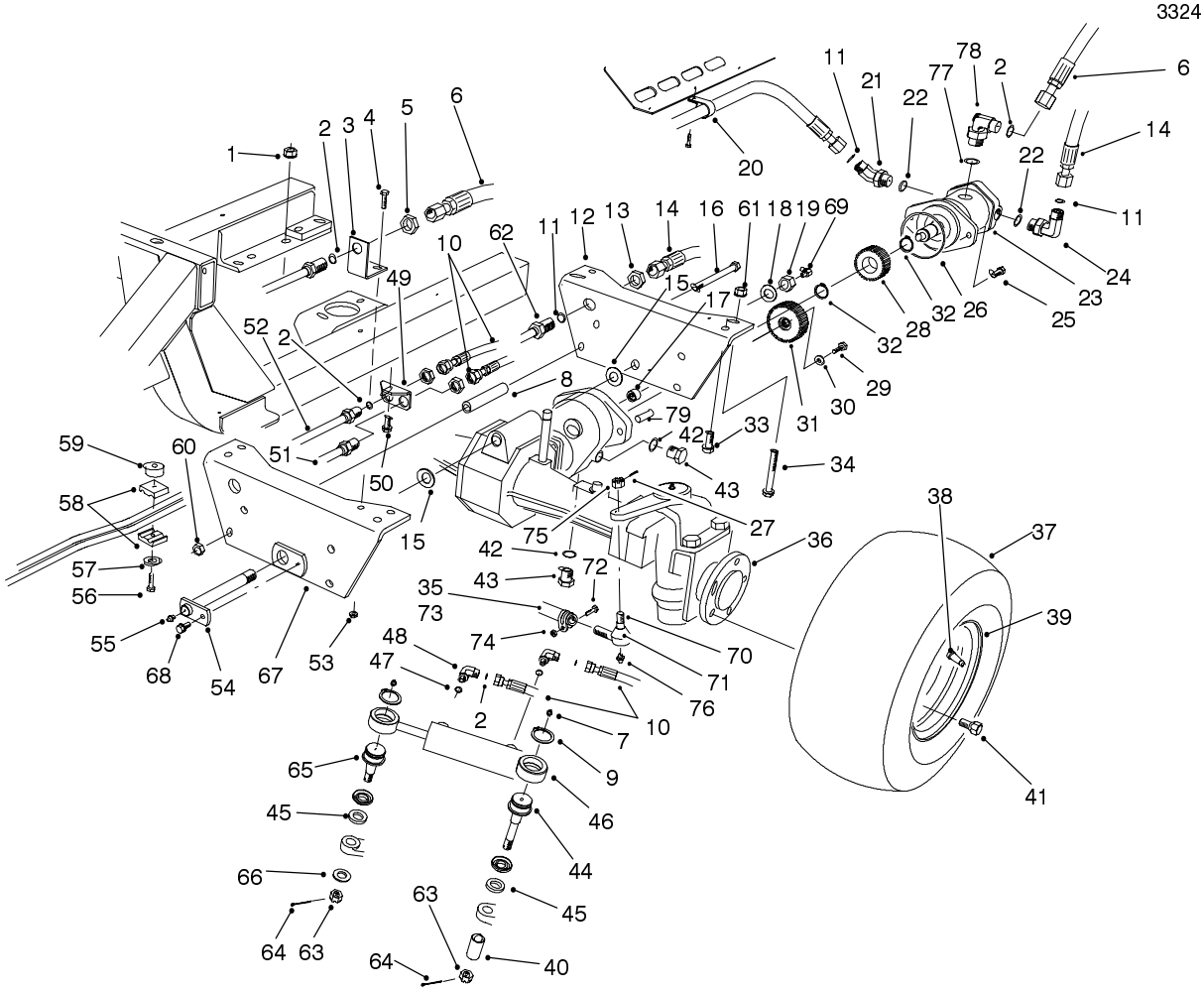
*Not Illustrated



Rear Axle Assembly (Model No. 30455 Only)

Ref. No.	Part No.	Description	No. Used
1	32128–23	Nut–Lock, Flange	2
2	237–22	Seal–O–Ring	7
3	76–9290	Bracket–Bulkhead	1
4	3234–4	Screw–Cap, HH	1
5	340–70	Nut–Bulkhead	3
6	86–3140	Hose–Hydraulic	1
7	302–5	Fitting–Grease	2
8	98–7076	Stop–Axle	2
9	32151–104	Ring–Retaining	2
10	76–9590	Hose–Hydraulic	2
11	237–65	O–Ring	3
12	94–8246	Plate–Axle Pivot, Rear	1
13	340–74	Nut–Bulkhead	1
14	86–2730	Hose–Hydraulic	1
15	98–3867	Washer–Thrust	2
16	325–36	Screw–Cap, HH	2
17	74–5700	Bearing–Needle	1
18	92–1765	Washer–Flat	1
19	3296–68	Nut–Lock	1
20	2412–74	R–Clamp	1
21	340–156	Fitting–Hydraulic, 45° (Incl. Ref. #22 & 11)	1
22	237–81	O–Ring	2
23	99–7502	Motor–Hydraulic	1
24	340–139	Fitting–Hydraulic, 90° (Incl. Ref. #11 & 22)	1

Ref. No.	Part No.	Description	No. Used
25	325–6	Screw–Cap, HH	2
26	237–166	O–Ring	1
27	3272–17	Pin–Cotter	2
28	95–4393	Gear–Driver	1
29	33114–025	Screw–HH	1
30	88–7200	Washer–Flat	1
31	99–7500	Clutch–Bidirectional	1
32	32120–15	Ring–Retaining	2
33	325–12	Screw–HHF	2
34	325–35	Screw–Cap, HH	2
35	95–4391	Tie Rod Assembly (Incl. Ref. #70–76)	1
36	95–7500	Axle–4wd	1
37	86–5910	Tire	2
38	100–2582	Rim	2
39	232–27	Stem–Valve	2
40	92–5844	Spacer–Joint, Ball	1
41	74–5500	Bolt–Wheel	10
42	237–42	O–Ring	3
43	353–508	Plug (Incl. Ref. #42)	2
44	92–5839	Joint–Ball	1
45	92–5833	Spacer–Joint, Ball	2
46	98–3806	Cylinder–Hydraulic	1
47	237–78	O–Ring	2

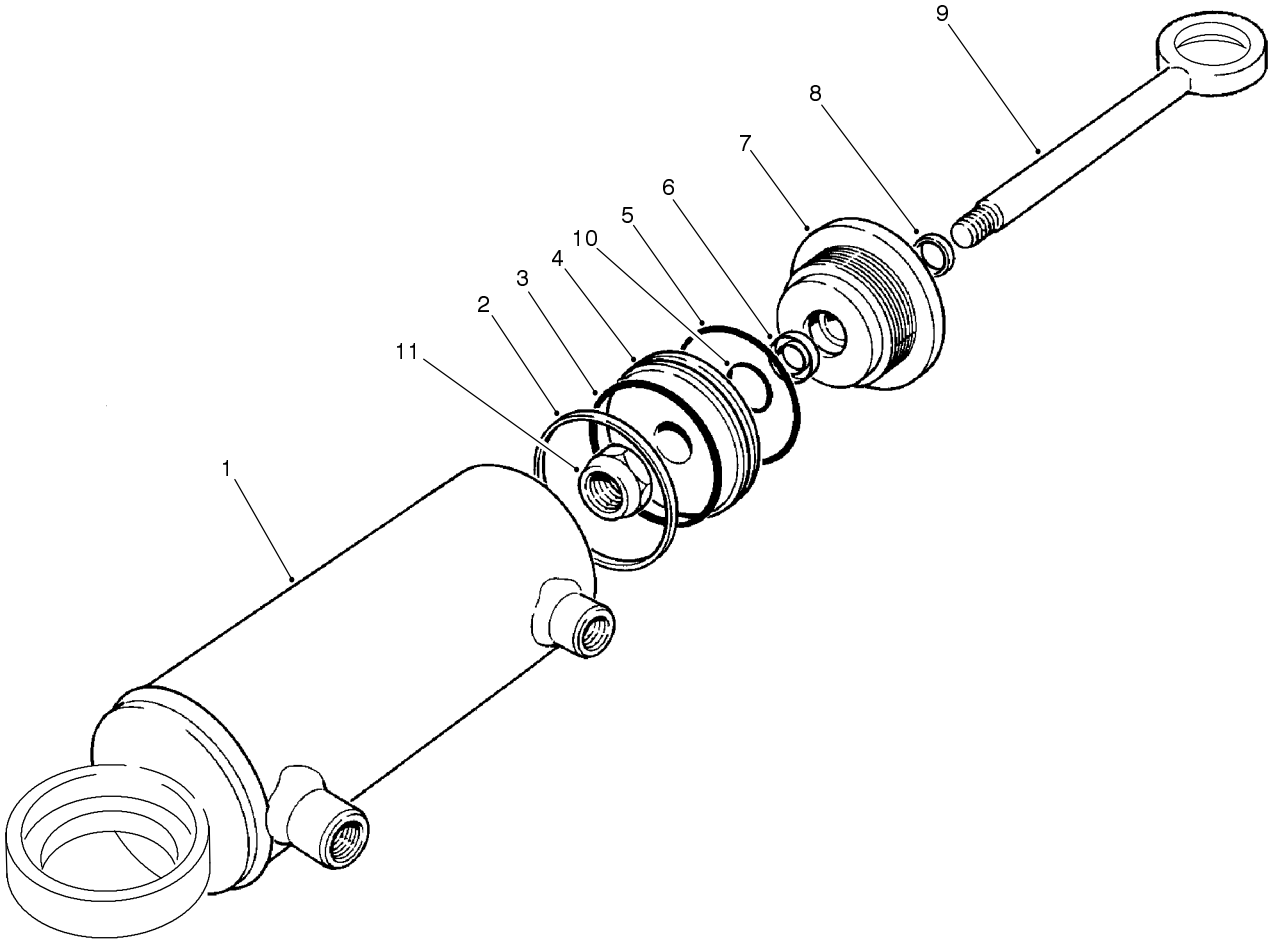


T–3481

Rear Axle Assembly (Model No. 30455 Only) (Continued)

Ref. No.	Part No.	Description	No. Used
48	340–97	Fitting–Hydraulic, 90° (Incl. Ref. #2 & 47)	2
49	98–3806	Bracket–Bulkhead	1
50	32144–11	Screw–HWH	1
51	86–5790	LH Rear Tube Assembly	1
52	86–5780	RH Rear Tube Assembly	1
53	32128–33	Nut–Flange, Lock	1
54	98–7077	Pin–Pivot, Axle	1
55	302–2	Fitting–Grease	1
56	32104–37	Screw–Cap, HH	1
57	3256–71	Washer–Flat	1
58	56–7973	Clamp–Hose	2
59	80–8660	Spacer	1
60	3296–23	Nut–Lock	2
61	32128–49	Nut–Lock	2
62	86–2770	Tube Assembly	1
63	32136–14	Nut–SHH	2

Ref. No.	Part No.	Description	No. Used
64	3272–12	Pin–Cotter	2
65	92–5838–01	Joint–Ball	1
66	92–5836	Washer–Axle	1
67	94–8247	Plate–Axle Pivot, Front	1
68	32144–41	Screw–HHF	1
69	302–33	Fitting–Grease, 90°	1
70	2411–45	End–Rod, Tie	2
71	71–4760	Seal	2
72	323–9	Screw–HH	2
73	99–7503	Tube & Clamp Assembly	1
74	3296–39	Nut–Lock, Hex	2
75	32136–13	Nut–Hex, Slotted	2
76	302–55	Fitting–Lube	2
77	237–79	O–Ring	1
78	340–18	Fitting–Hydraulic (Incl. Ref. #2 & 77)	1
79	104-2353	Pin–Dowel	2



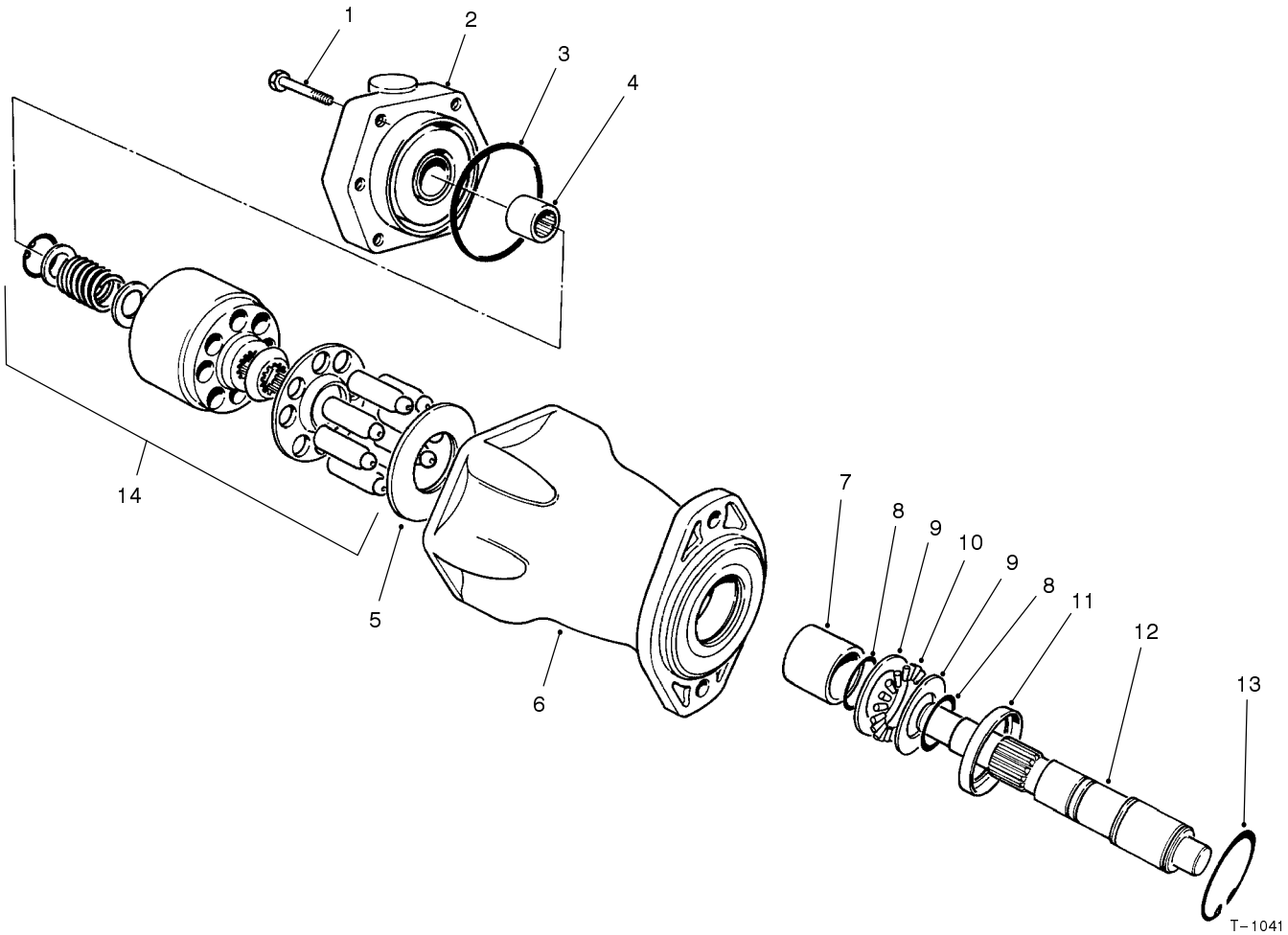
T–1776–1

Hydraulic Cylinder No. 98–3806 (Model No. 30455 Only)

Ref. No.	Part No.	Description	No. Used
1	99–4753	Butt & Tube Assembly	1
2		Seal–Teflon	1
3		O–Ring	1
4	66–1940	Piston	1
5		O–Ring	1
6		U–Cup	1
7	92–6588	Gland	1

Ref. No.	Part No.	Description	No. Used
8		Wiper	1
9	99–4754	Piston Rod Assembly	1
10		O–Ring	1
11	66–1930	Nut–Lock	1
*	92–6593	Kit–Seal (Incl. Ref. #2, 3, 5, 6, 8 & 10)	1

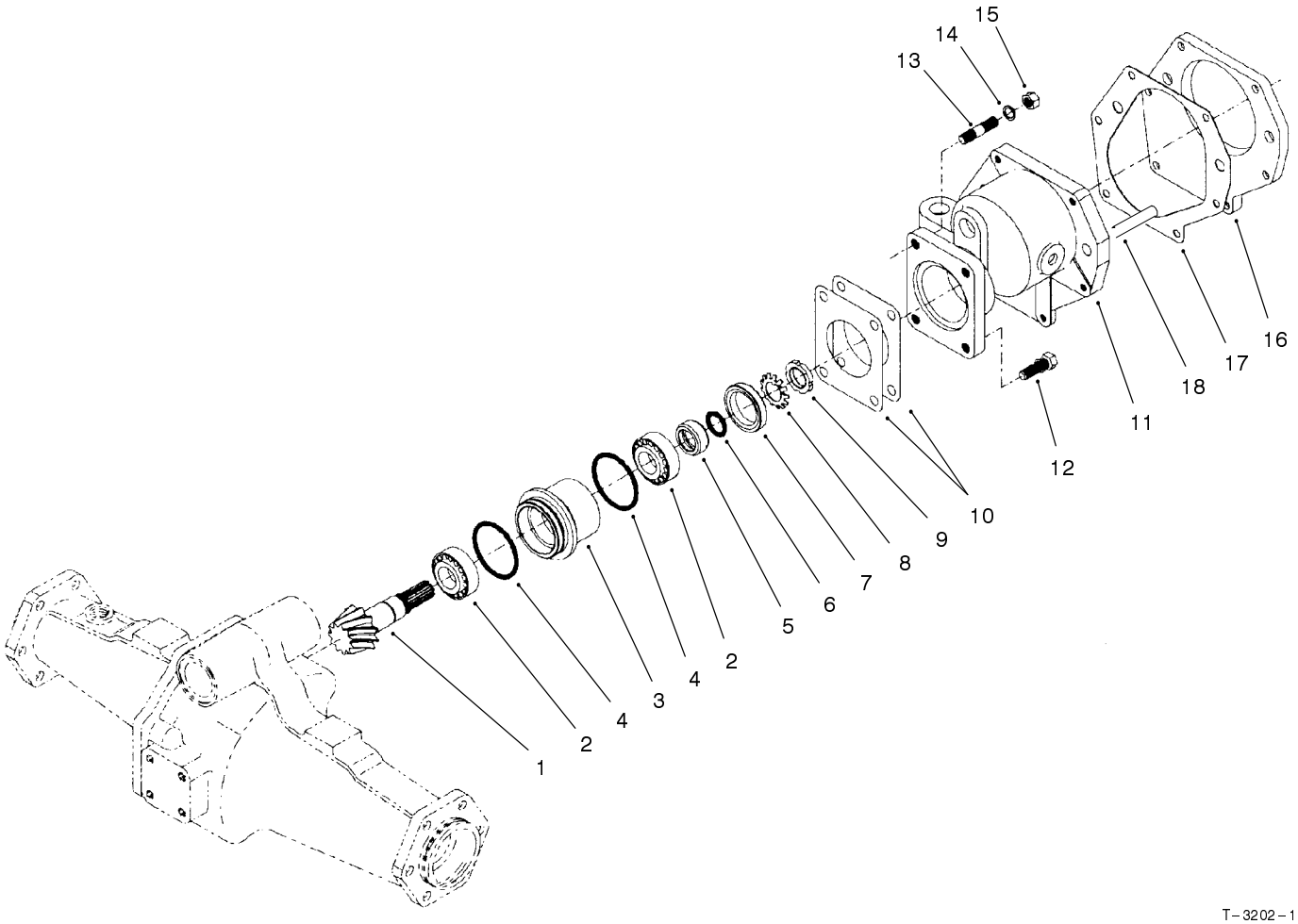
*Not Illustrated



Hydraulic Motor No. 99–7502
(Model No. 30455 Only)

Ref. No.	Part No.	Description	No. Used
1	100–2550	Screw–Cap, HH	6
2	100–2551	Back Plate Assembly (Incl. Ref. #4)	1
3	76–6980	O–Ring	1
4		Bearing	1
5	76–6970	Insert–Camplate	1
6	100–2552	Housing Assembly (Incl. Ref. #7)	1

Ref. No.	Part No.	Description	No. Used
7		Bearing	1
8	76–7000	Ring–Retaining	2
9	76–6950	Race–Thrust	1
10	76–6960	Bearing–Thrust	1
11	100–2553	Seal–Shaft	1
12	100–2554	Shaft–Drive	1
13	76–7010	Ring–Retaining	1
14	76–6910	Rotating Assembly	1

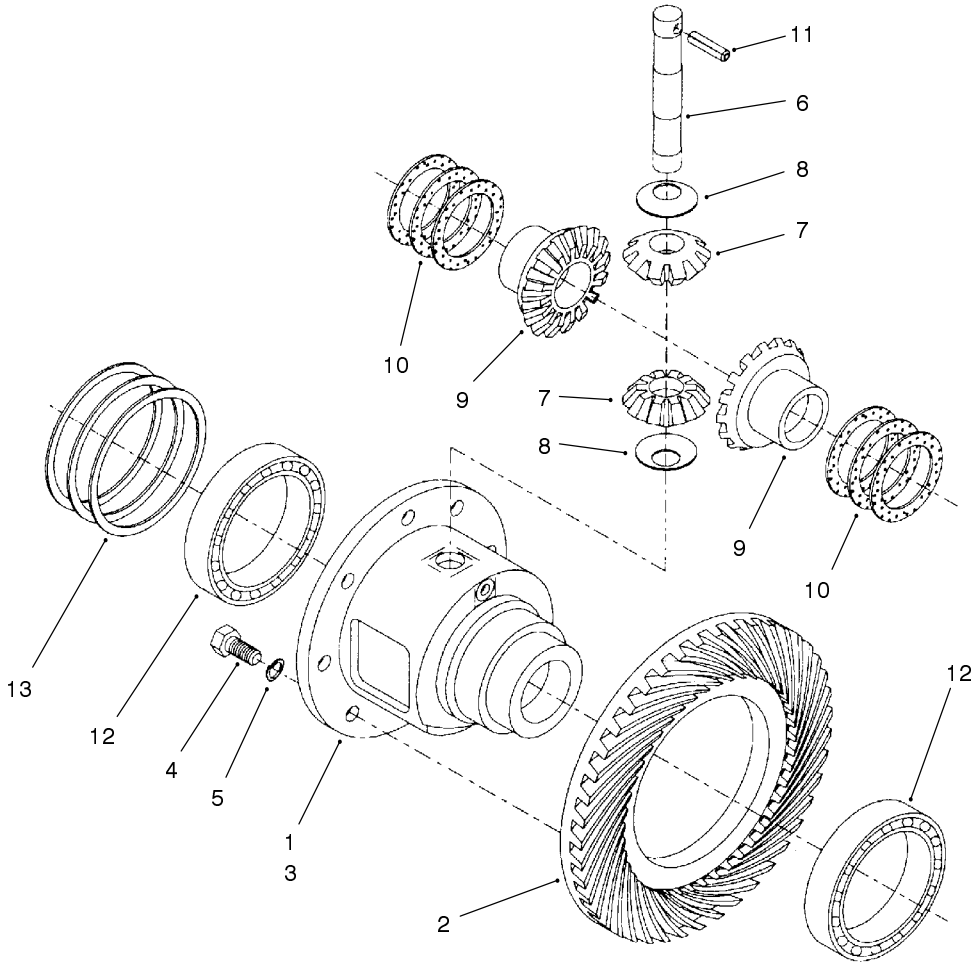


T–3202–1

Rear Axle Assembly No. 95–7500
Bevel Pinion Shaft Assembly

Ref. No.	Part No.	Description	No. Used
1	100–2555	Pinion–Bevel, Spiral (Incl. Gear–43 Spiral Bevel)	1
2	99–7570	Bearing–Roller, Taper	2
3	95–7534	Case–Bearing	1
4	99–7571	O–Ring	2
5	99–7572	Collar–Seal, Oil	1
6	99–7573	O–Ring	1
7	99–7574	Seal–Oil	1
8	99–7559	Washer–Lock	1
9	99–7560	Nut–Lock	1
10	99–7550	Shim–0.1	2
*	99–7551	Shim–0.2	2
11	95–7533	Case–Gear	1
12	99–7575	Bolt	2
13	100–2556	Stud	2
14	99–7527	Washer–Spring	2
15	99–7526	Nut	2
16	95–7541	Plate–Cover	1
17	95–7540	Gasket	1
18	104-2353	Pin–Dowel	2

*Not Illustrated

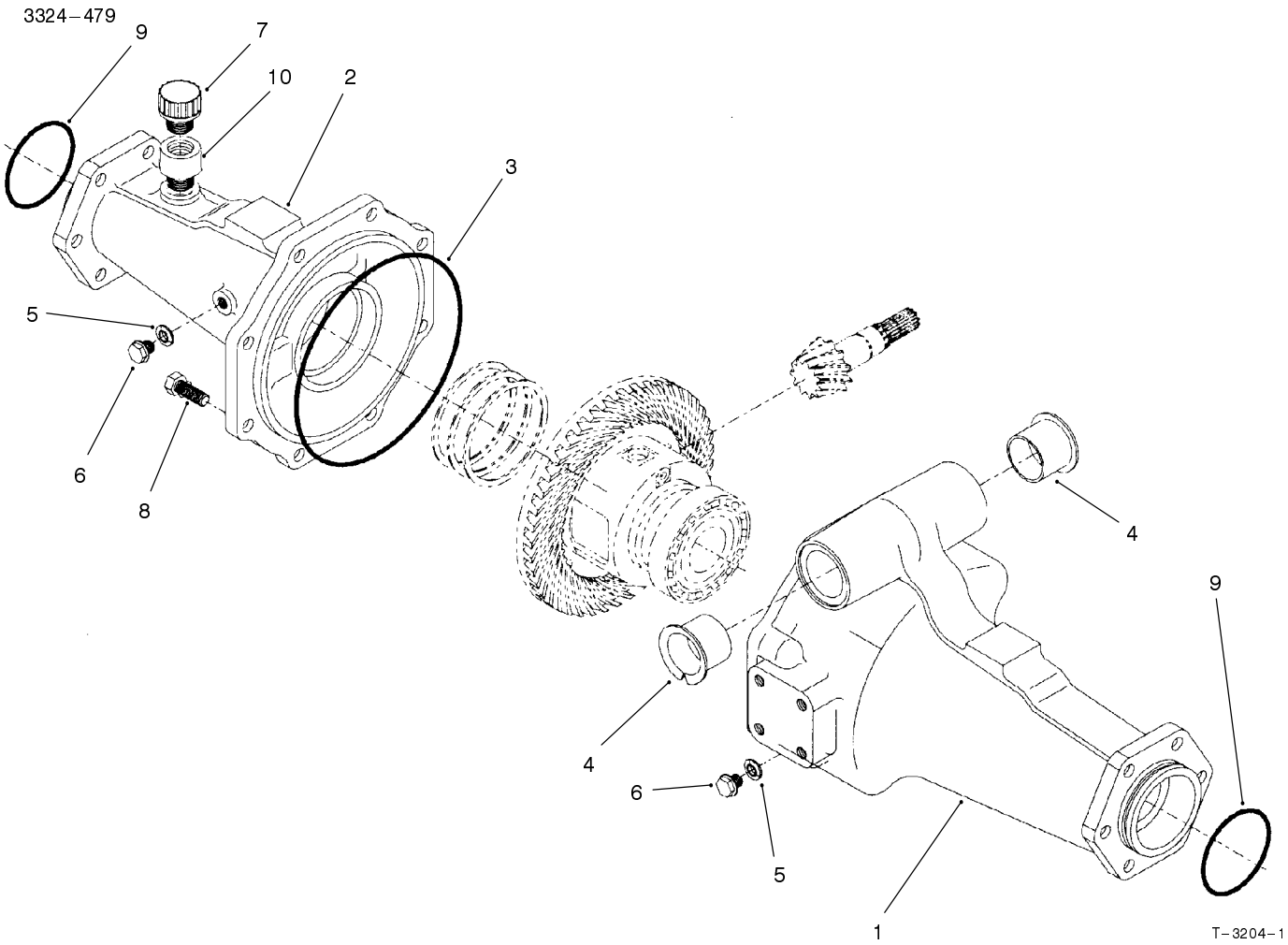


T–3203–1

Rear Axle Assembly No. 95–7500 (Continued)
Differential Assembly

Ref. No.	Part No.	Description	No. Used
1	95–7503	Differential Assembly (Incl. Ref. #2–11)	1
2	100–2555	Gear–Spiral Bevel, 43 (Incl. Pinion–Spiral Bevel)	1
3	95–7502	Case–Differential	1
4	99–7576	Bolt	8
5	99–7577	Washer–Spring	8
6	99–7578	Shaft–Pinion, Differential	1
7	99–7579	Pinion–Differential	2
8	99–7580	Washer–Pinion, Differential	2
9	99–7581	Gear–Differential, Side	2
10	99–7582	Washer–Differential	2
*	99–7583	Washer–Differential	2
*	99–7584	Washer–Differential	2
11	99–7588	Pin–Spring	1
12	99–7562	Bearing–Ball	2
13	99–7585	Shim–0.1	2
*	99–7586	Shim–0.2	2
*	99–7587	Shim–0.4	2

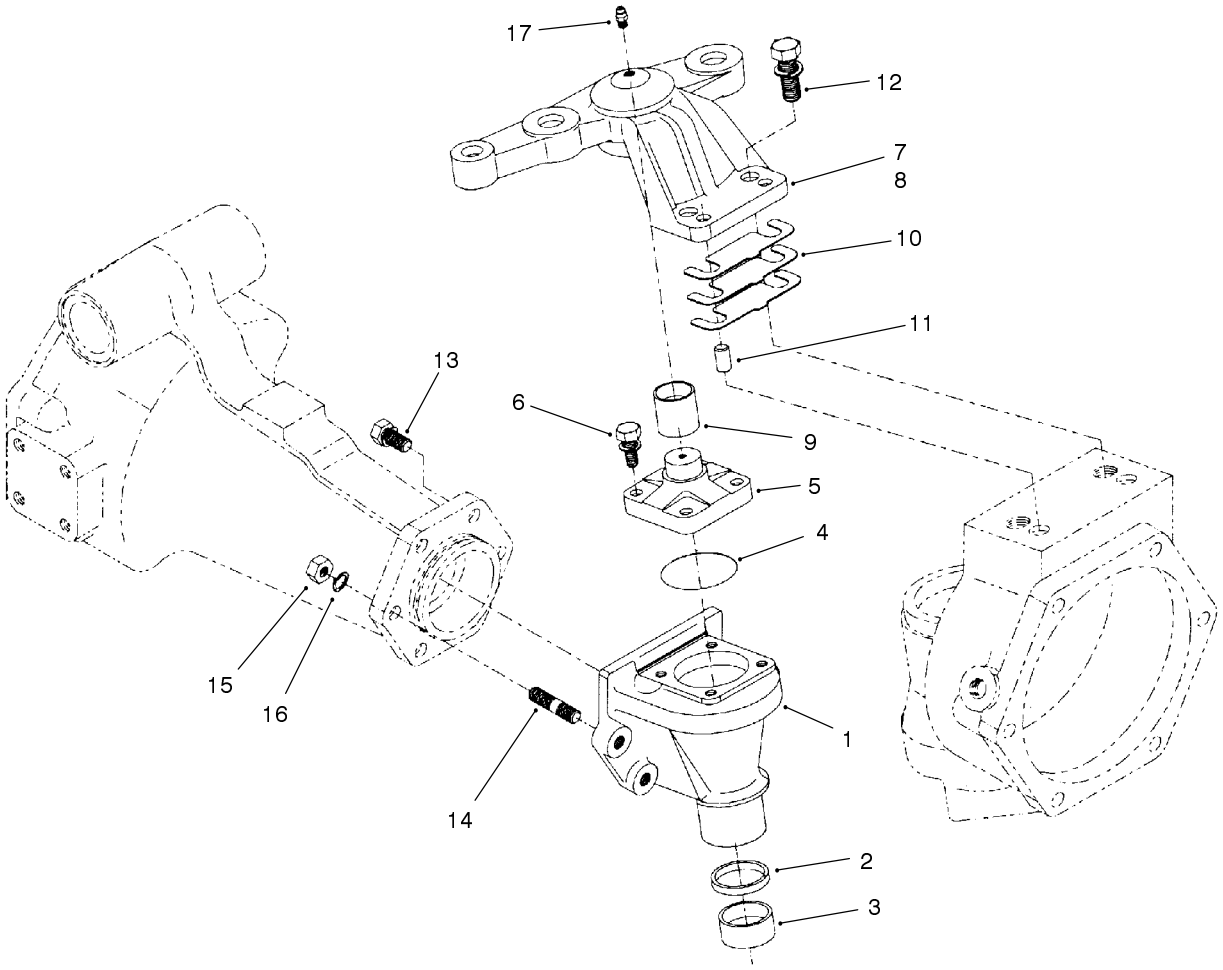
*Not Illustrated



Rear Axle Assembly No. 95–7500 (Continued)
Axle Support Assembly

Ref. No.	Part No.	Description	No. Used
1	95–7508	Support #1–Axle	1
2	95–7506	Support #2–Axle	1
3	95–7507	O–Ring	1
4	95–7537	Bushing–Flange	2
5	99–7589	Plug	2

Ref. No.	Part No.	Description	No. Used
6	99–7590	Washer–seal	2
7	99–7591	Oil Plug Assembly	1
8	99–7592	Bolt	8
9	99–7593	O–Ring	2
10	104-2377	Extension–Vent	1



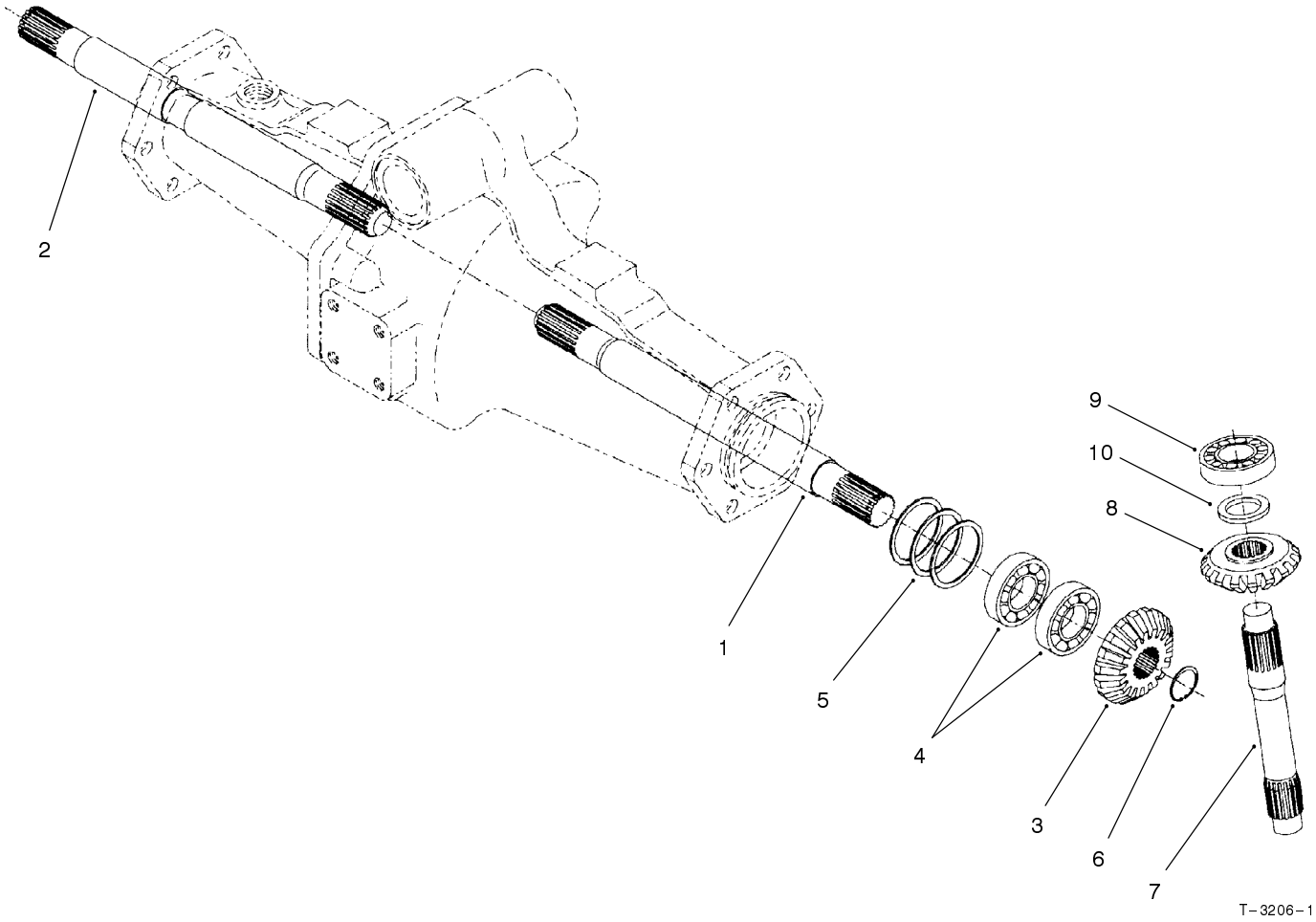
T–3571

Rear Axle Assembly NO. 95–7500 (Continued)
Bevel Gear Case Assembly

Ref. No.	Part No.	Description	No. Used
1	95–7538	Case–Gear, Bevel	2
2	100–2557	Seal–Oil	2
3	104–2378	Bushing	2
4	104–2372	O–Ring	2
5	104–2376	Knuckle ASM	2
6	104–2374	Bolt	8
7	95–7513	Support–Axle Case, LH	1
8	95–7515	Support–Axle Case, RH	1
9	99–7529	Bushing	2

Ref. No.	Part No.	Description	No. Used
10	95–7547	Shim–0.1	2
*	95–7548	Shim–0.2	2
*	95–7549	Shim–0.3	2
11	99–7597	Pin–Straight	4
12	104–2375	Bolt	4
13	99–7599	Bolt	8
14	99–7525	Stud	4
15	99–7526	Nut	4
16	99–7527	Washer–Spring	4
17	99–7528	Nipple–Grease	2

*Not Illustrated

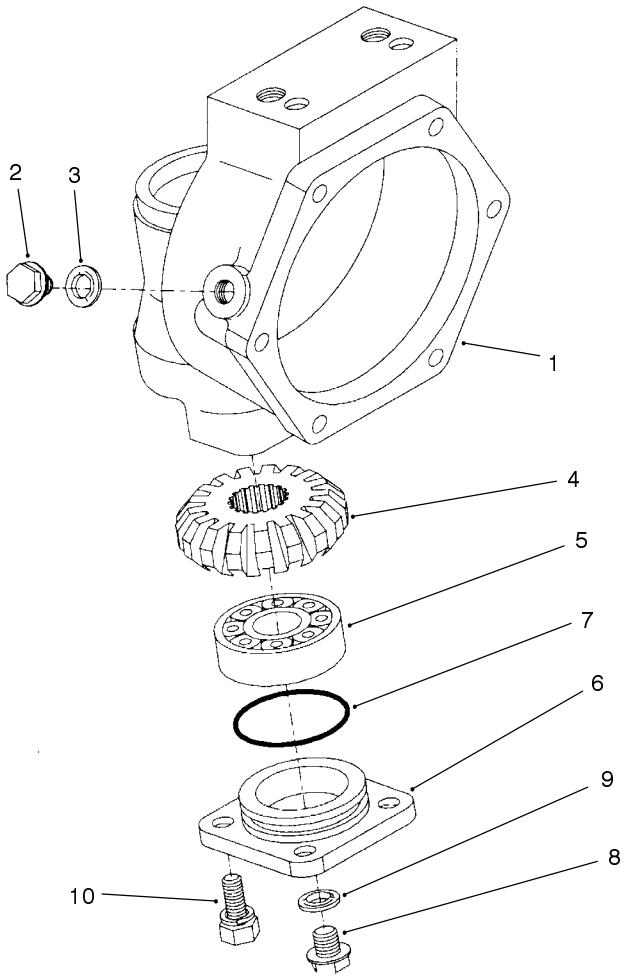


Rear Axle Assembly No. 95–7500 (Continued)
Bevel Gear Shaft Assembly

Ref. No.	Part No.	Description	No. Used
1	95–7509	Shaft–Differential Gear, LH	1
2	95–7512	Shaft–Differential Gear, RH	1
3	95–7517	Gear–15 Bevel	2
4	99–7530	Bearing–Ball	4
5	99–7552	Shim–0.1	2
*	99–7553	SHim–0.2	2
*	99–7554	Shim–0.5	2

Ref. No.	Part No.	Description	No. Used
6	99–7531	Clip	2
7	95–7529	Shaft–Gera, Bevel	2
8	95–7519	Gear–17 Bevel	2
9	99–7532	Bearing–Roller, Taper	2
10	99–7558	Collar	2

*Not Illustrated

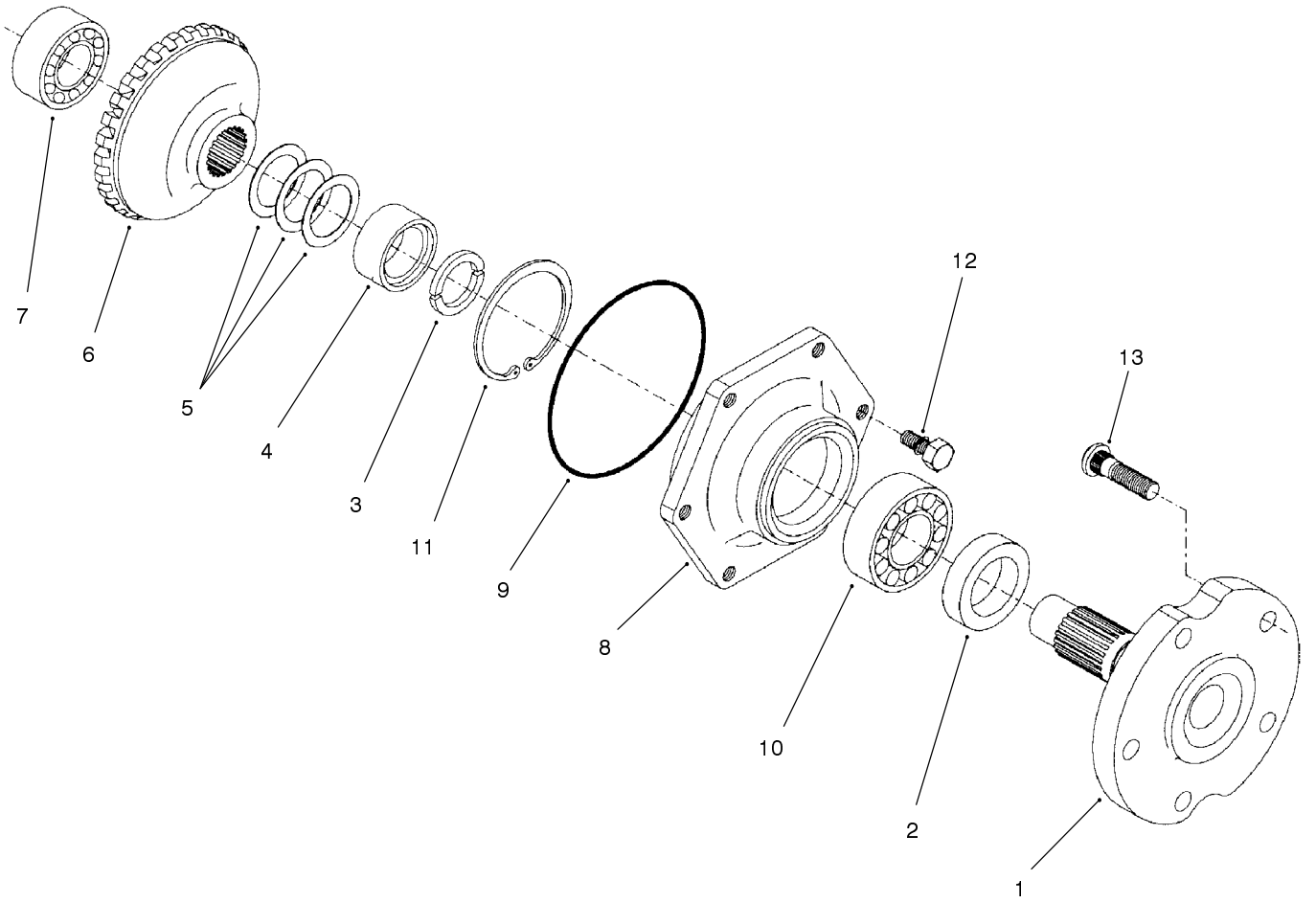


T – 3207 – 1

Rear Axle Assembly No. 95 – 7500 (Continued)
Axle Case Assembly

Ref. No.	Part No.	Description	No. Used
1	95 – 7531	Case – Axle	2
2	99 – 7535	Plug	2
3	99 – 7536	Washer – Seal	2
4	95 – 7527	Gear – 17 Bevel	2
5	99 – 7532	Bearing – Roller, Taper	2

Ref. No.	Part No.	Description	No. Used
6	100 – 2560	Cover – Axle	2
7	100 – 2561	O – Ring	2
8	99 – 7589	Plug	2
9	99 – 7590	Washer – Seal	2
10	100 – 2562	Bolt	8

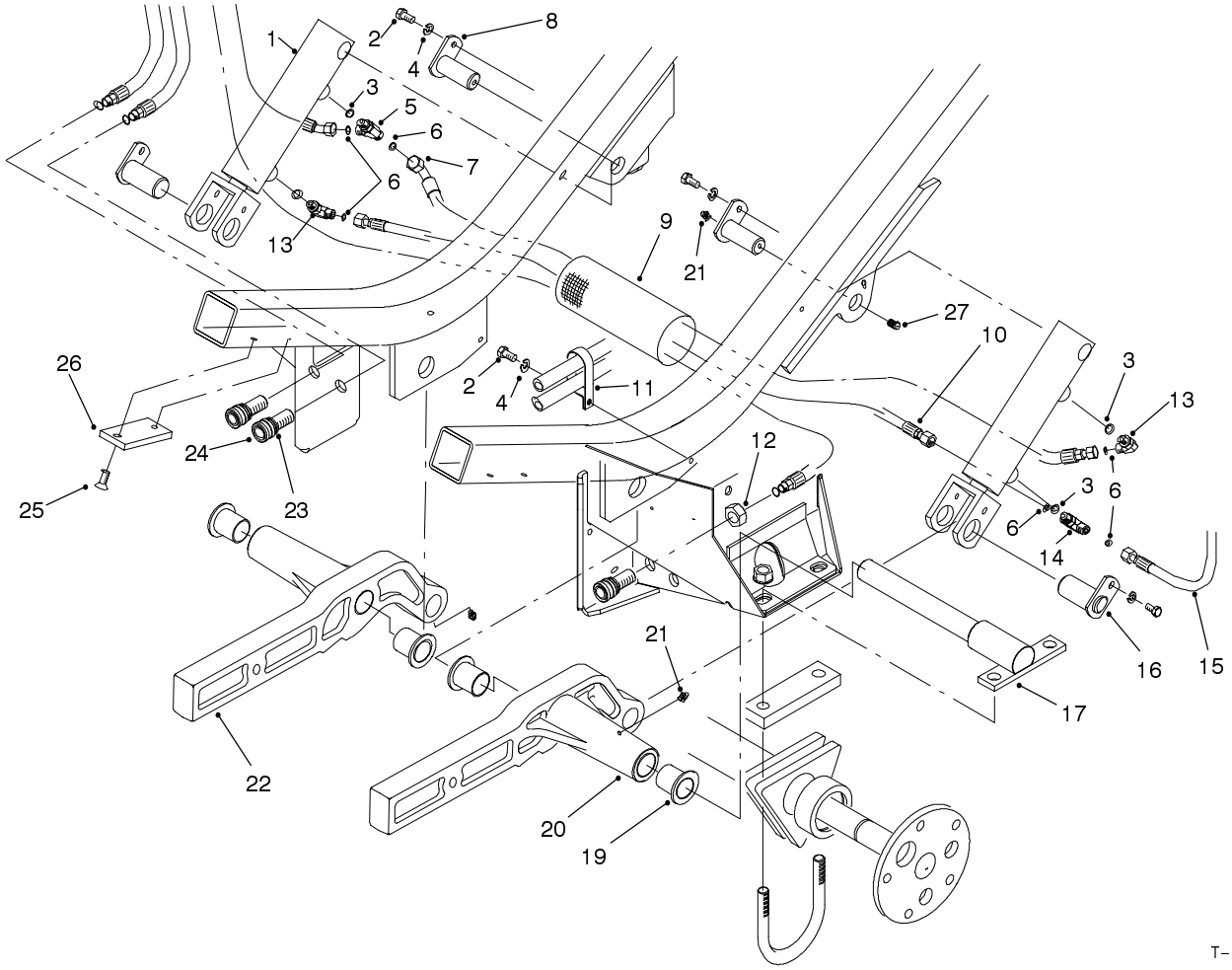


Rear Axle Assembly No. 95–7500 (Continued)
Axle Assembly

Ref. No.	Part No.	Description	No. Used
1	95–7522	Axle	2
2	99–7564	Seal–Oil	2
3	95–7544	Clip	4
4	95–7523	Spacer	2
5	99–7555	Shim–0.3	2
*	99–7556	Shim–0.2	2
*	99–7557	Shim–0.5	2
6	95–7524	Gear–29 Bevel	2

Ref. No.	Part No.	Description	No. Used
7	99–7534	Bearing–Ball, Double	2
8	95–7521	Cover–Axle	2
9	99–7538	O–Ring	2
10	99–7561	Bearing–Ball	2
11	99–7539	Clip	2
12	99–7596	Bolt	12
13	99–7563	Stud	10

*Not Illustrated

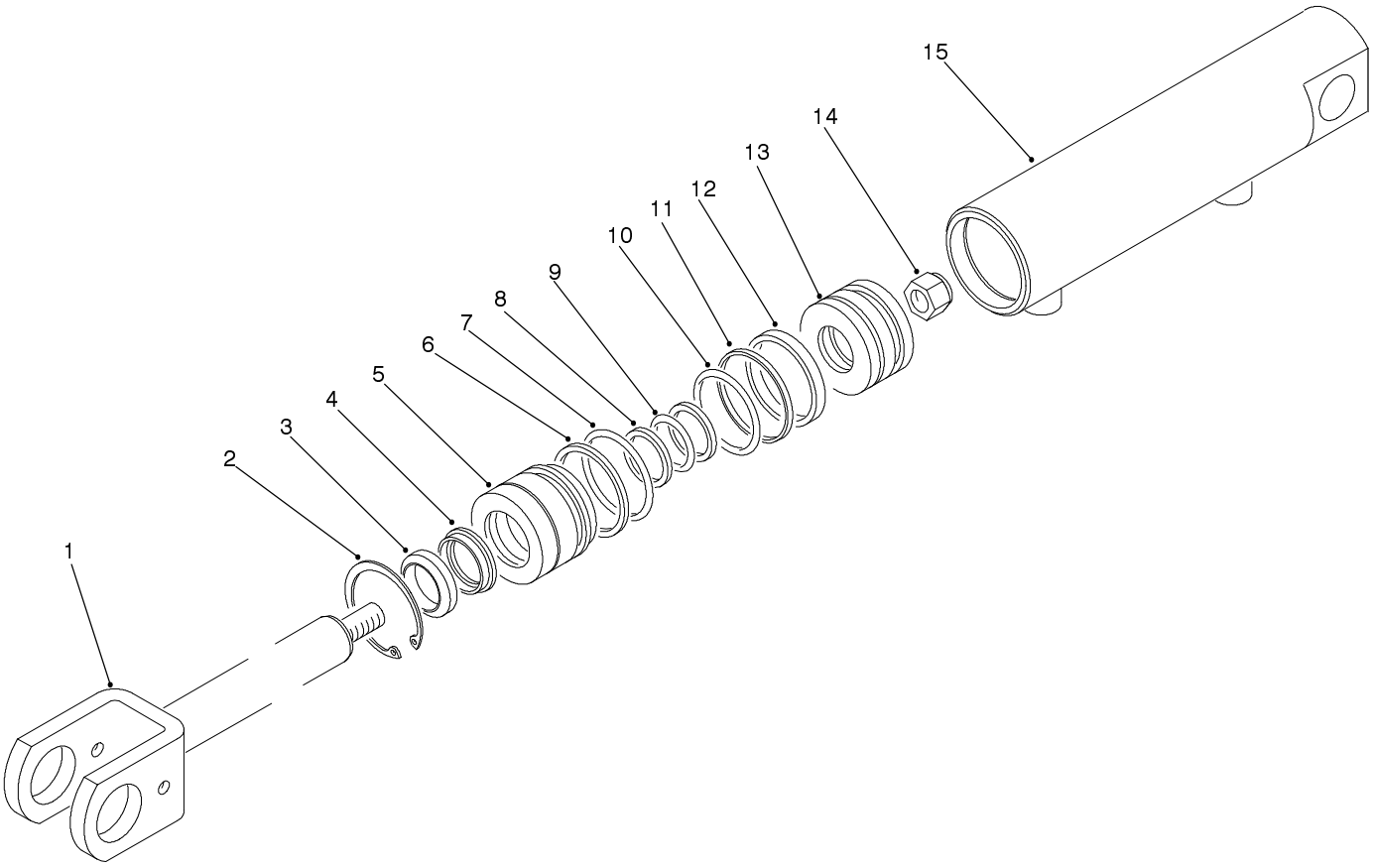


T–2672–1

Lift Arm Assembly

Ref. No.	Part No.	Description	No. Used
1	86–5580	Cylinder–Hydraulic	2
2	322–2	Screw–Cap, HH	5
3	237–78	O–Ring	4
4	3253–4	Washer–Lock	5
5	340–140	Fitting–Hydraulic, Tee (Incl. Ref. #3 & 6)	1
6	237–21	O–Ring	6
7	86–3160	Hose Assembly	1
8	84–1350	Pin–Pivot	2
9	70–1380	Sleeve–Protective	1
10	86–3200	Hose Assembly	1
11	2412–137	R–Clamp	1
12	3220–7	Nut–Jam	3
13	340–132	Fitting–Hydraulic, 90° (Incl. Ref. #3 & 6)	2
14	340–125	Fitting–Hydraulic, Tee (Incl. Ref. #3 & 6)	1
15	86–3170	Hose Assembly	1
16	88–1190	Pin–Pivot	2
17	86–2790–03	Pin–Pivot, LH	1
*	88–1200–03	Pin–Pivot, RH	1
19	68–6480	Bushing–Flange	4
20	84–0730–03	Arm–Lift, LH	1
21	302–5	Fitting–Grease	6
22	86–5890–03	Arm–Lift, RH	1
23	237–79	O–Ring	3
24	86–5450	Coupler–Hydraulic (Incl. Ref. #23)	3
25	32108–58	Screw–Machine, FH	4
26	69–9300	Pad–Bumper	2
27	3247–4	Screw–Set	2

*Not Illustrated



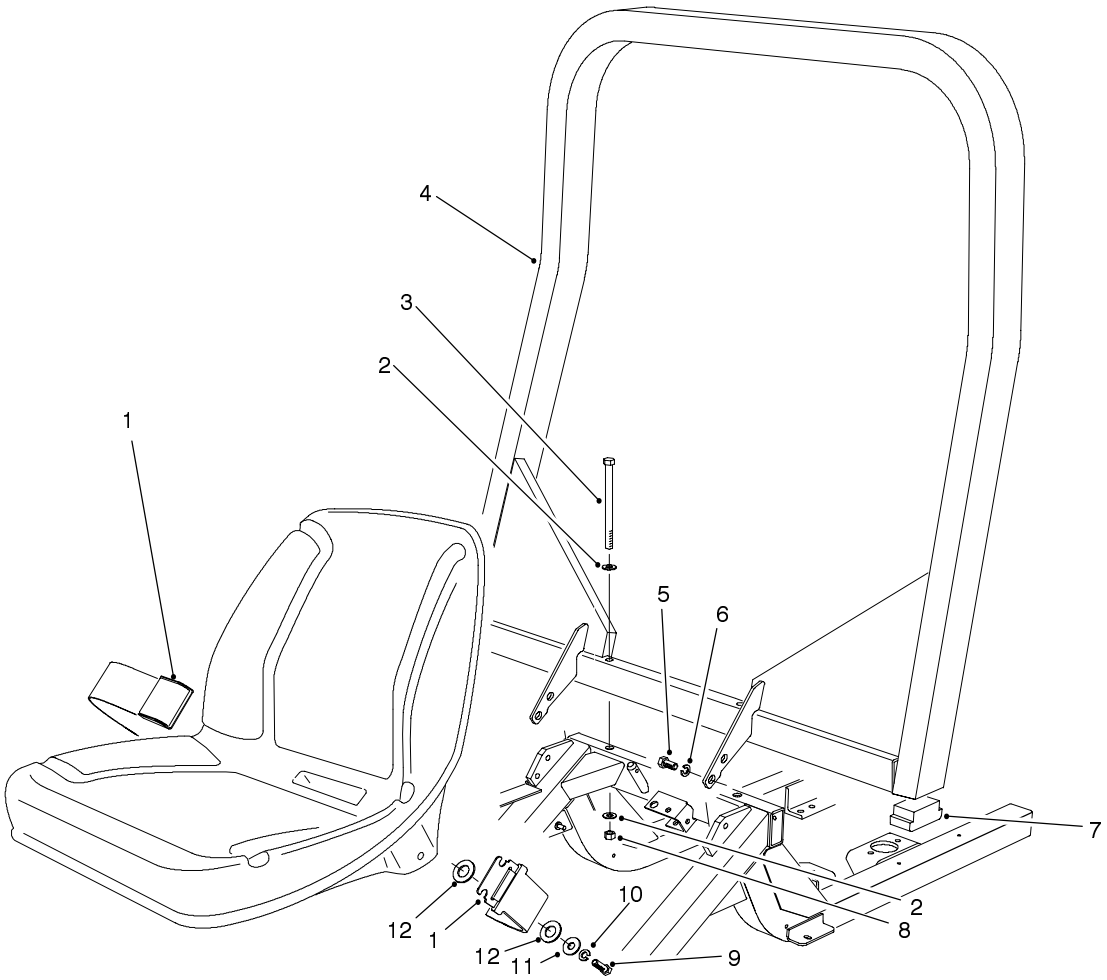
T–1490–1

Hydraulic Cylinder No. 86–5580

Ref. No.	Part No.	Description	No. Used
1	88–3620	Rod Assembly	1
2		Ring–Retaining	1
3		Wiper–Rod	1
4		U–Cup–Loaded	1
5	88–3630	Head	1
6		Ring–Back–Up	1
7		O–Ring	1
8		Ring–Back–Up	2
9		O–Ring	1

Ref. No.	Part No.	Description	No. Used
10		O–Ring	1
11		Ring–Piston, Unithane	1
12		Ring–Wear	1
13	88–3600	Piston	1
14	88–3590	Nut–Lock	1
15	88–3610	Barrel Assembly	1
*	88–3640	Kit–Seal (Incl. Ref. #2–4 & 6–12)	1

*Not Illustrated



T–2249–2

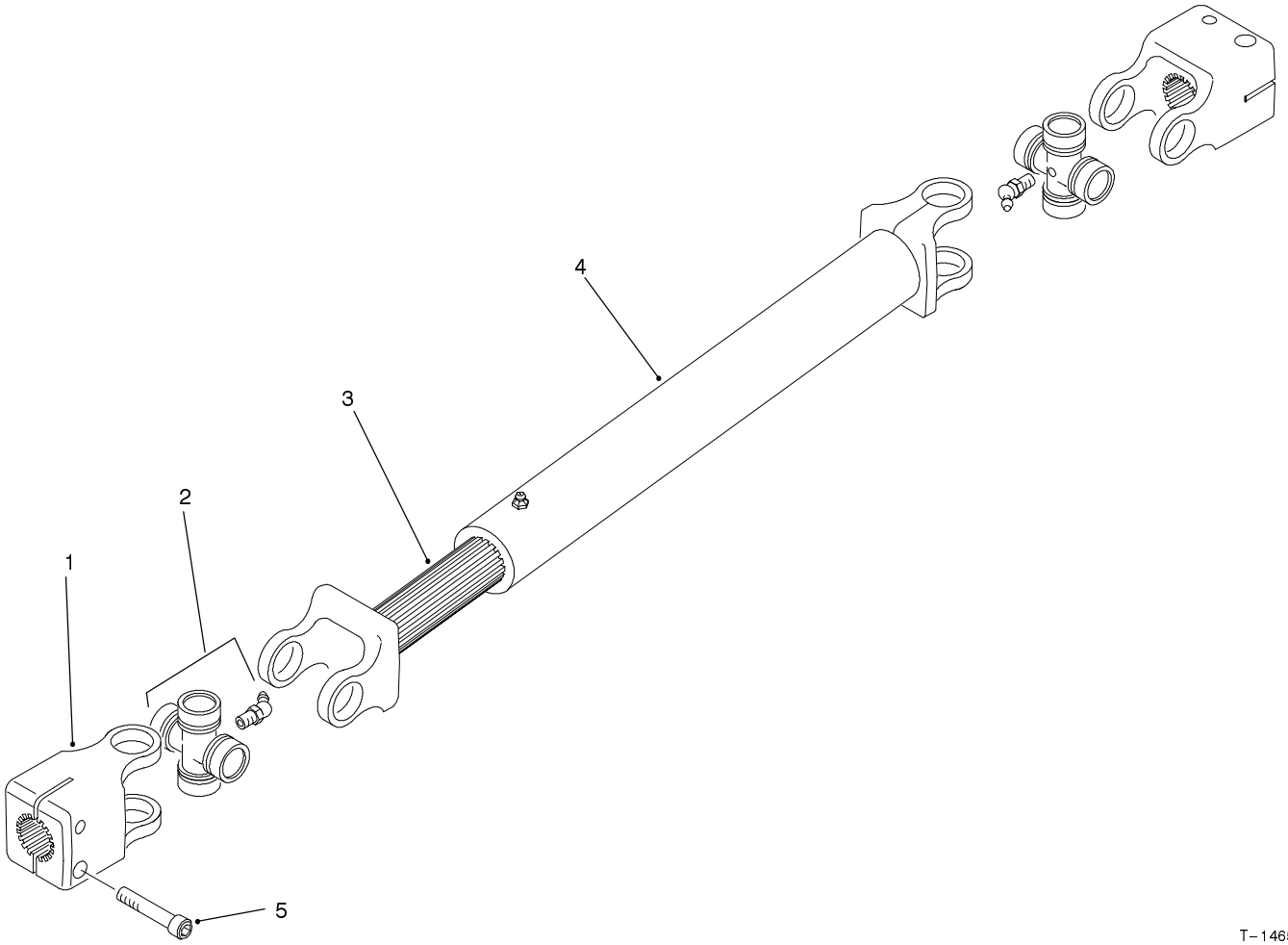
R.O.P.S. Assembly (Standard For Model No. 30455) (Optional For Model No. 30450)

Ref. No.	Part No.	Description	No. Used
1	21–4191	Seat Belt Assembly	1
2	3256–26	Washer–Flat	4
3	325–33	Screw–Cap, HH	2
4	76–9370–03	Bar–R.O.P.S.	1
5	325–2	Screw–Cap, HH	4
6	3253–7	Washer–Lock	4
7	82–5370	Foam–Bar, R.O.P.S.	2

Ref. No.	Part No.	Description	No. Used
8	3296–25	Nut–Lock	2
9	3212–5	Screw–Cap, HH	2
10	3253–6	Washer–Lock	2
11	3256–5	Washer–Flat	2
12	3256–28	Washer–Flat	2
*		Canopy Assembly (Optional)	1

*Not Illustrated

NOTE: When purchasing Canopy assembly or R.O.P.S. assembly in its entirety, order direct from Custom Products PO Box 718 Litchfield, MN 55355

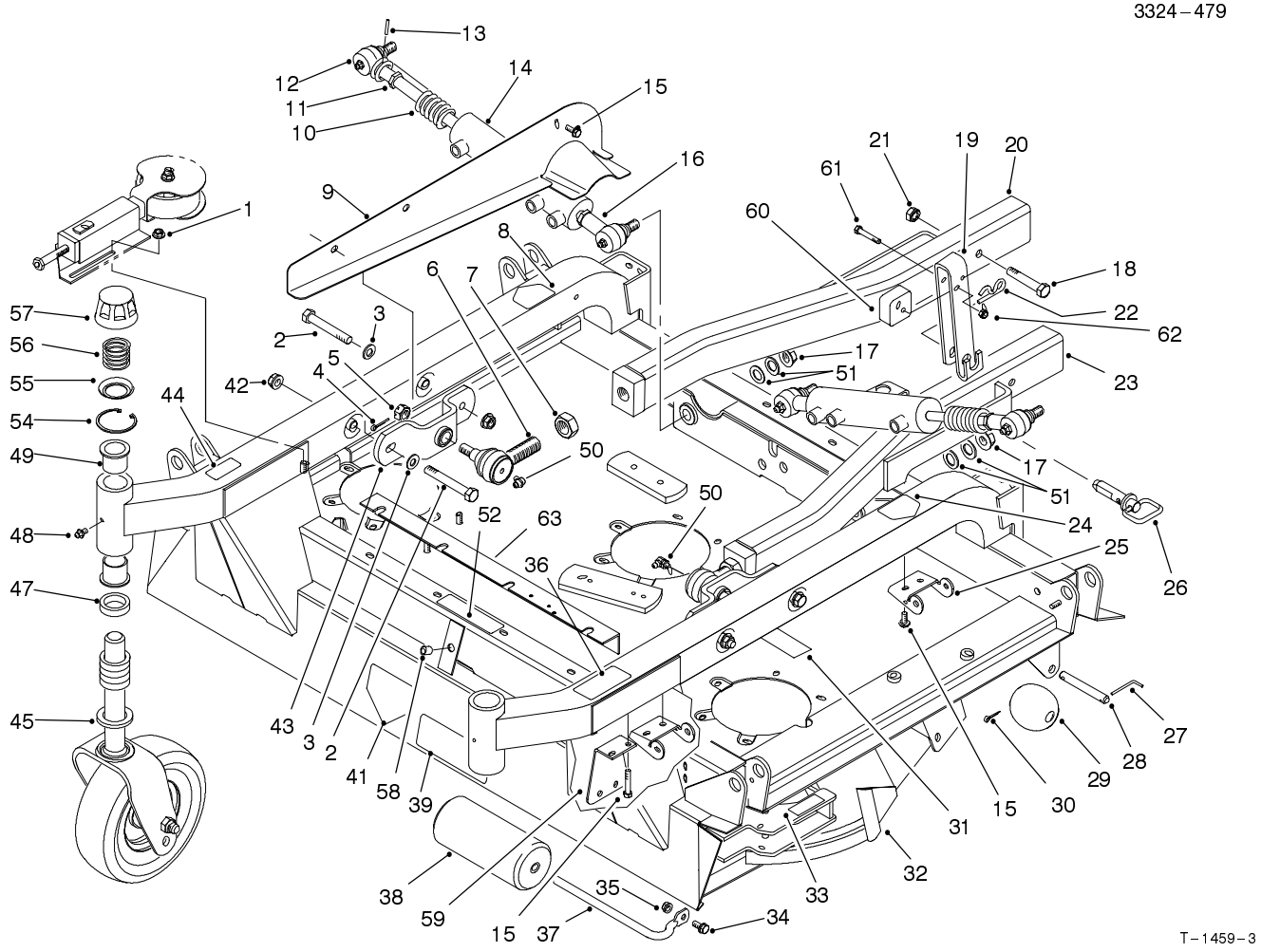


T–1465–1

Drive Shaft Assembly No. 86–1730

Ref. No.	Part No.	Description	No. Used
1	86–1150	Yoke–End	2
2	86–1160	Kit–Universal	2
3	86–1170	Shaft–Yoke, Slip	1

Ref. No.	Part No.	Description	No. Used
4	86–1180	Tube–Slip Yoke	1
5	3273–17	Screw–HSH	4

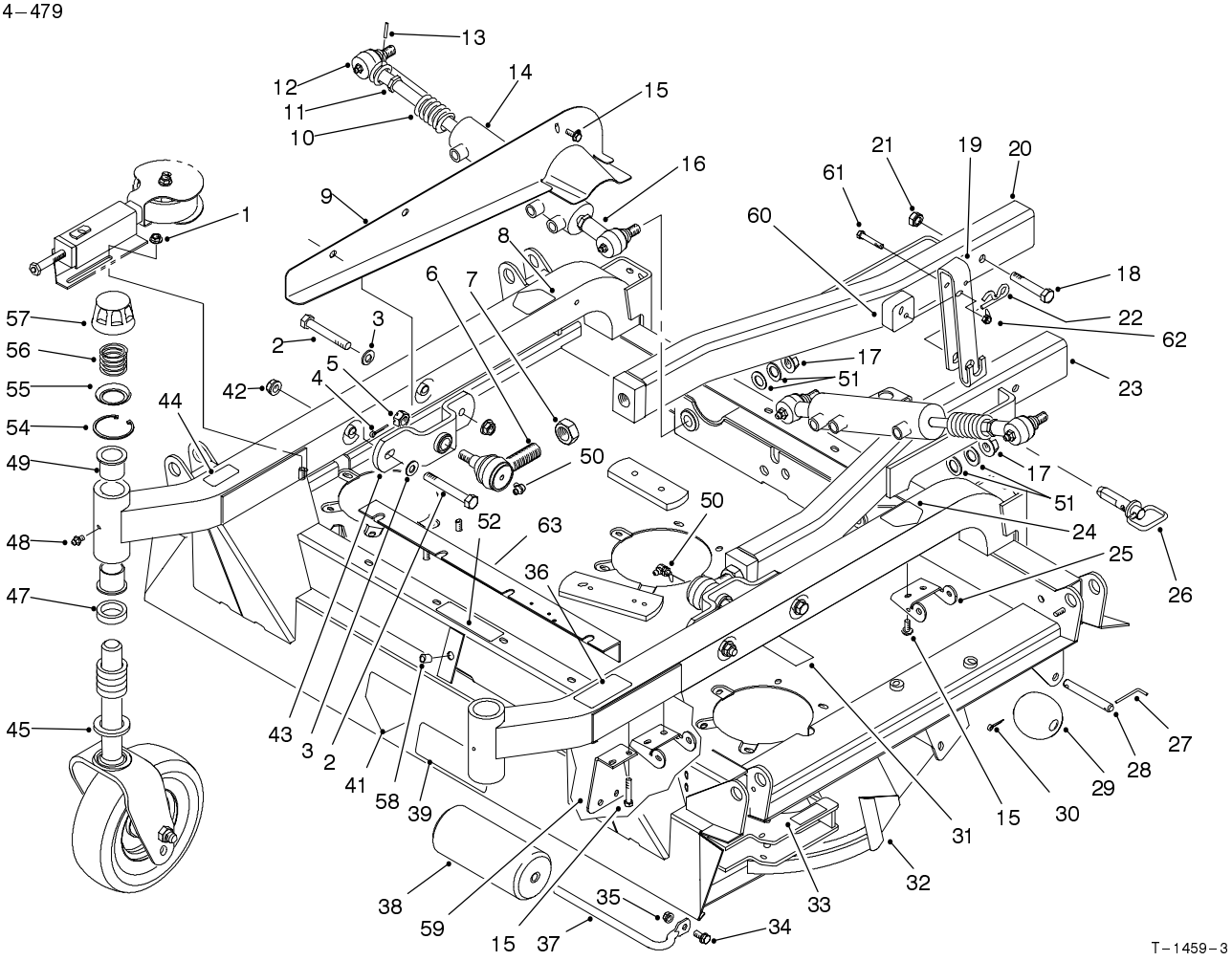


Center Deck and Carrier Frame Assembly

Ref. No.	Part No.	Description	No. Used
1	32128–19	Nut–Flange Head	2
2	325–35	Screw–Cap, HH	4
3	3256–26	Washer–Flat	4
4	3272–12	Pin–Cotter	2
5	32136–2	Nut	2
6	86–8100–01	Joint–Ball	2
7	21–3000–01	Nut	2
8	86–0730	Decal–HOC, RH	1
9	86–2230–01	Cover–Guide, RH	1
*	86–2260–01	Cover–Guide, LH	1
10	86–2510–01	Spring	2
11	84–5300	Nut	4
12	92–5810–03	Joint–Ball	2
13	32121–51	Pin–Roll	2
14	86–2190	Cylinder–Hydraulic	2
15	32144–26	Screw–HWH	12
16	92–5811–03	Joint–Ball	2
17	32128–54	Nut–Flange	2
18	325–11	Screw–Cap, HH	2
19	94–8009–01	Strap–Deck, HOC	2
20	86–2280–01	Frame–Carrier, RH	1
21	3296–23	Nut–Lock	2
22	3290–256	Pin–Cotter, Hair	2
23	86–2320–01	Frame–Carrier, LH	1
24	86–0720	Decal–HOC, LH	1
25	86–1890–03	Hinge	4

Ref. No.	Part No.	Description	No. Used
26	86–2390	Pin–HOC	2
27	57–0690	Pin	2
28	57–0680	Shaft	2
29	29–4820	Roller	2
30	3272–11	Pin–Cotter	2
31	86–0740	Decal–Belt	1
32	92–7757	Center Deck Assembly (Incl. Ref. #8, 24, 31, 33, 36, 39, 41, 44, 49, 52 & 58)	1
33	55–4300	Decal–Warning	2
34	3234–1	Screw–HHF.	1
35	32128–21	Nut–Flange Head	1
36	86–0780	Decal–HOC	1
37	68–6840	Shaft	1
38	68–6710	Roller	1
39	68–8340	Decal–Caution	1
41	43–8480	Decal–Danger	1
42	32128–23	Nut–Flange Head	4
43	69–7290–01	Mount–Carrier	2
†44		Decal–Safety Std.	1
45	77–0950	Washer	2
47	69–1510	Spacer	10
48	302–5	Fitting–Grease	2
49	69–6470	Bushing	4
50	302–60	Fitting–Grease, 90°	2
51	86–1440	Washer–Flat	4

*Not Illustrated
†Not Sold Separately

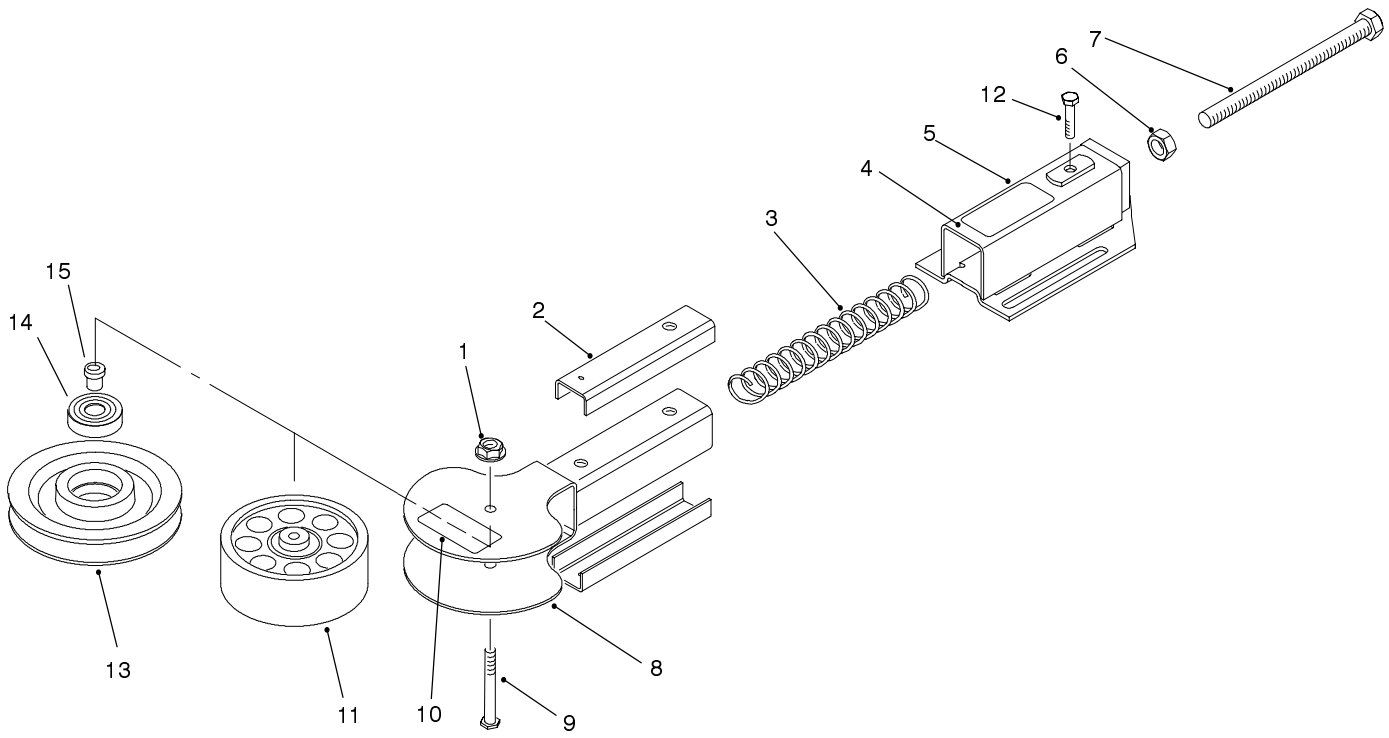


Center Deck and Carrier Frame Assembly (Continued)

Ref. No.	Part No.	Description	No. Used
52	85–6410	Decal–Danger	1
54	92–5581	Ring–Retaining, Internal	2
55	92–5583	Washer	2
56	92–9726	Spring–Compression	2
57	92–8861	Cap	2
58	32148–10	Insert–Threaded	1
59	94–8020–03	Shield–Harness, Wire	2

Ref. No.	Part No.	Description	No. Used
60	94–8008	Plate–Wear	2
61	322–21	Screw–Cap, HH	4
62	3296–29	Nut–Lock	4
*	92–9727	HOC Cap Assembly (Incl. Ref. #54–57)	2
63	100-2584-01	Shield–Wire Harness	1

*Not Illustrated

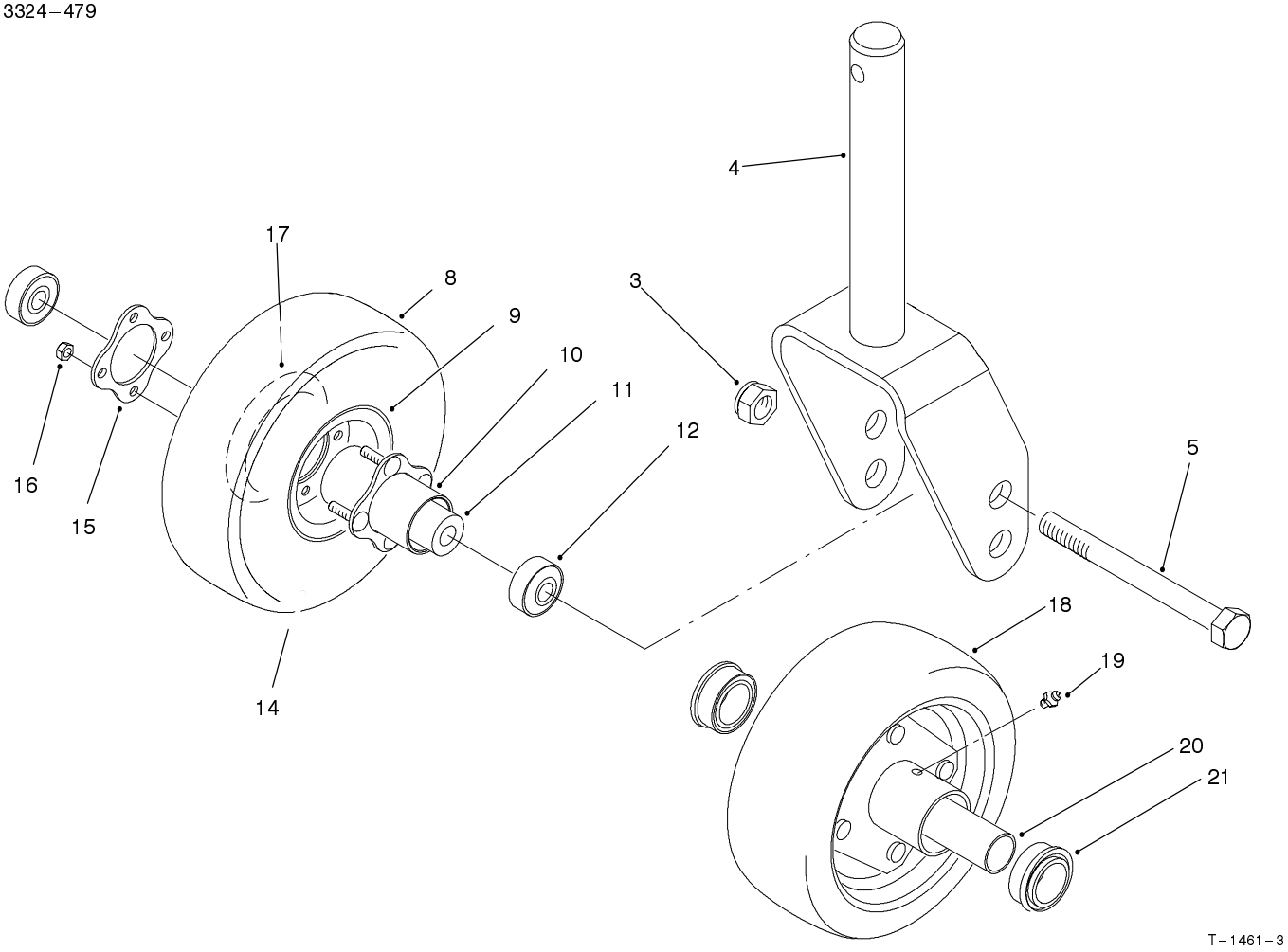


T – 3482

Belt Tension Adjuster Assembly

Ref. No.	Part No.	Description	No. Used
1	32128–43	Nut–Lock, Flange Head	3
2	86–0060	Sleeve–Tube	6
3	92–7767	Spring–Compression (Wing Deck Adjustor) (Color–White)	2
*	92–7768	Spring–Compression (Center Deck Adjustor) (Color–Red)	1
4	86–2670	Decal–Belt	1
5	92–0626	Tube Assembly (Incl. Ref. #4)	3
6	3217–9	Nut–Jam	3
7	86–0050	Screw–Adjusting	3
8	95–4383	Yoke–Pulley (Incl. Ref. #10)	3
9	86–2000	Bolt–Head, Thin	3
10	55–4300	Decal–Warning	1
11	92–0625	Idler Pulley Assembly	2
12	322–5	Screw–HH	3
13	104–2355	V–Idler Pulley Assembly	1
14	38–7820	Bearing	2
15	100–2587	Spacer–Bearing	2

*Not Illustrated

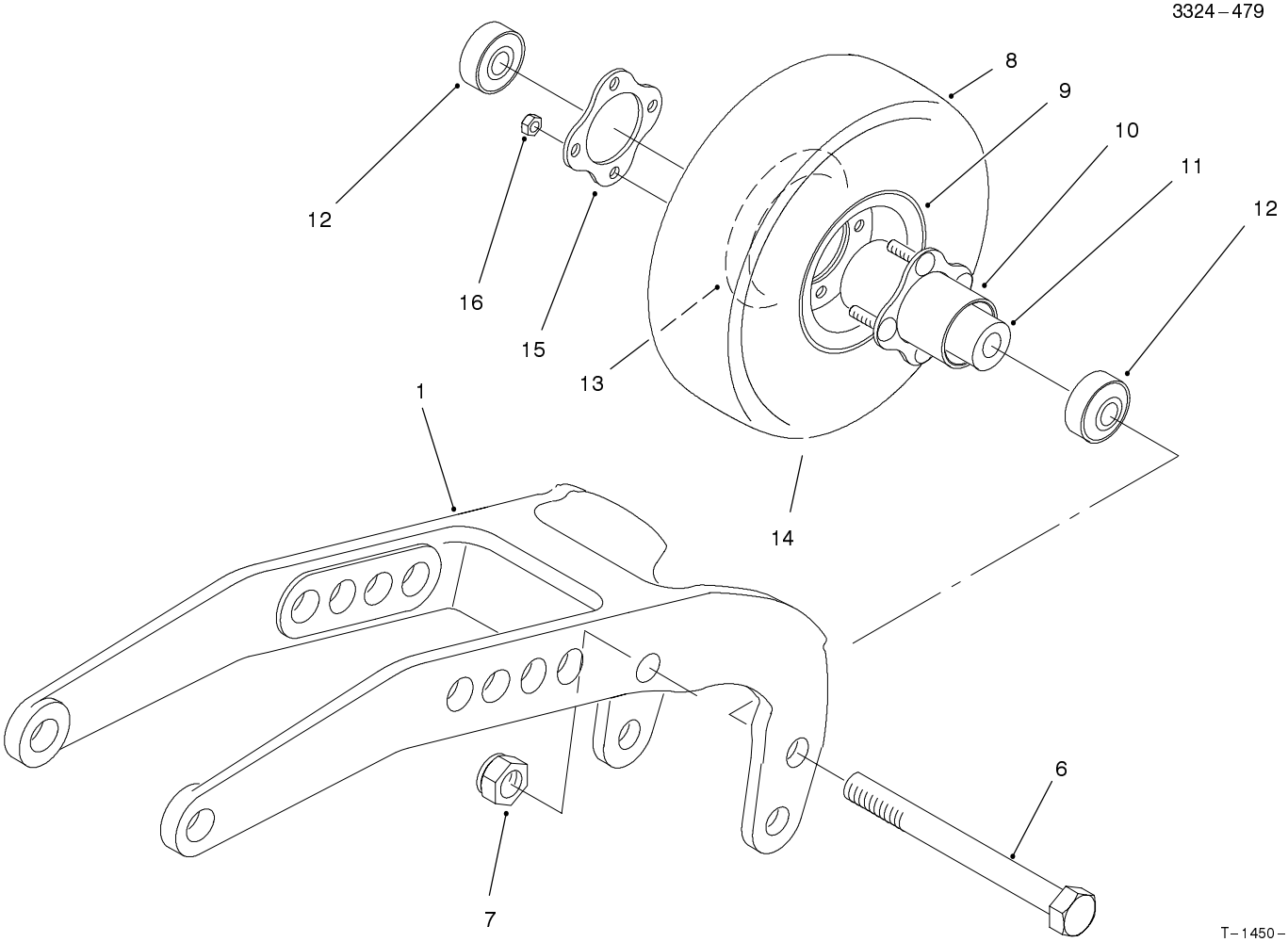


Front Castor Fork Assembly

Ref. No.	Part No.	Description	No. Used
3	3296–53	Nut–Lock	2
4	92–7750–01	Fork (Used on Wing Units)	2
*	92–7752–01	Fork (Used on Center Unit)	2
5	327–24	Screw–Cap, HH	2
8	93–9939	Tire–8″	2
*	93–4243	Tire–10″	2
9	93–4239	Rim–Wheel	2
10	93–5980	Hub	2
11	93–4241	Spacer–Bearing	2
12	93–4237	Bearing–Castor	4
14	68–8950	8” Tube w/Valve	2
*	93–4244	10” Tube w/Valve	2
15	93–4242	Plate	2
16	32128–16	Nut–Lock, Hex	8
17	95–2741	Rim–Wheel	2

Ref. No.	Part No.	Description	No. Used
18	76–1880	Segmented 10” Wheel Optional (Incl. Ref. #19–21)	2
19	302–5	Fitting–Grease	2
20	251–332	Spacer–Inner	2
21	251–321	Bearing–Ball	2
*	93–9938	Wheel–8″ (Used on Wing Units) (Incl. Ref. #8–17)	2
*	93–4240	Wheel–10″ (Used on Center Unit) (Incl. Ref. #8–17)	2
*	93–5974	8” Foam Filled Wheel Assembly (Optional) (Incl. Ref. #8–12, & 15–17)	2
*	93–5973	10” Foam Filled Wheel Assembly (Optional) (Incl. Ref. #8–12, & 15–17)	2

*Not Illustrated



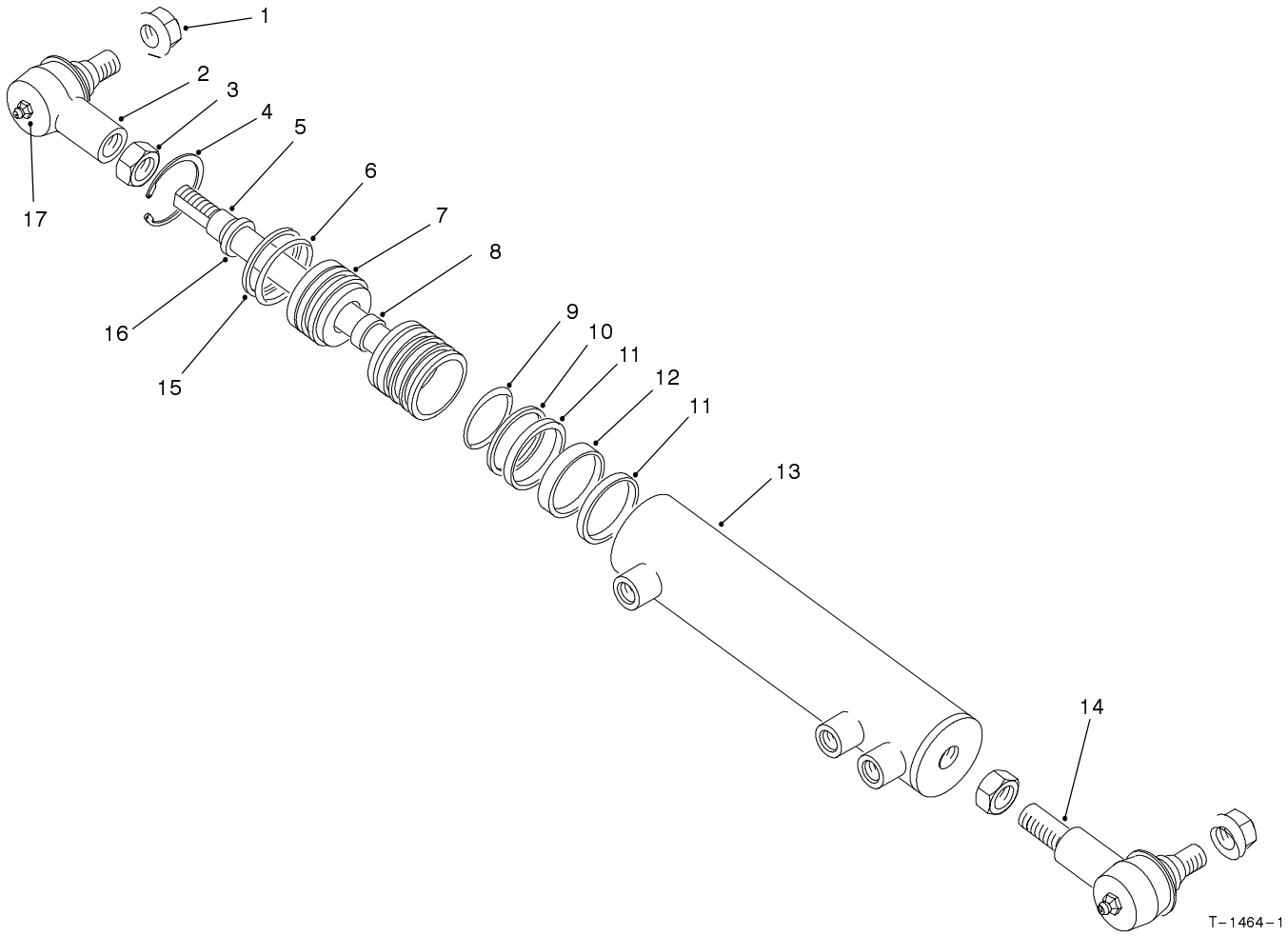
Rear Pivot Arm Assembly

Ref. No.	Part No.	Description	No. Used
1	75–9790–01	Arm–Pivot, Rear	2
6	327–24	Screw–Cap, HH	2
7	3296–53	Nut–Lock	2
8	93–9939	Tire–8″	2
9	93–4239	Rim–Wheel	2
10	93–5980	Hub	2
11	93–4241	Spacer–Bearing	2
12	93–4237	Bearing–Castor	4
13	95–2741	Rim–Wheel	2

Ref. No.	Part No.	Description	No. Used
14	68–8950	Tube–w/Valve	2
15	93–4242	Plate	2
16	32128–16	Nut–Lock, Flange	8
*	93–9938	Castor Wheel Assembly (Incl. Ref. #8–16)	2
*	93–5974	8” Foam Filled Wheel Asssembly (Optional) (Incl. Ref. #8–13 & 15–16)	2

*Not Illustrated

3324–479

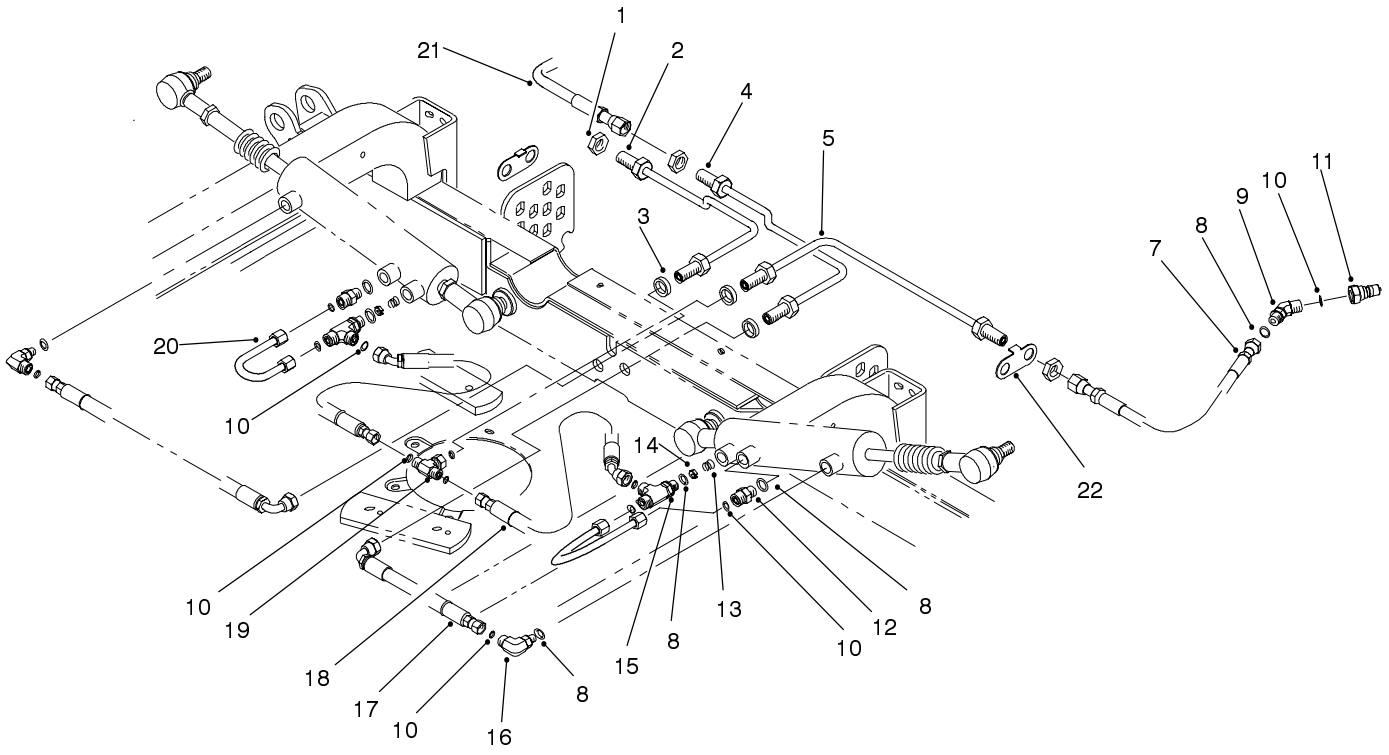


Hydraulic Cylinder Assembly No. 86–2190

Ref. No.	Part No.	Description	No. Used
1	32128–54	Nut–Flange	2
2	92–5810–03	Rod End Assembly	1
3	84–5300	Nut–Jam	2
4		Ring–Retaining	1
5	92–0603	Piston & Rod Assembly	1
6		O–Ring	1
7	92–0604	Head–Ring, Retaining	1
8		U–Cup	1
9		O–Ring	1
10		Ring–Piston	1
11		Ring–Wear	2

Ref. No.	Part No.	Description	No. Used
12		Ring–Wear	1
13	92–0602	Barrel Assembly	1
14	92–5811–03	Rod End Assembly	1
15		Back–up	1
16		Wiper	1
17	302–5	Fitting–Grease	2
*	86–2190	Cylinder Assembly (Incl. Ref. 4–13 & 15–16)	1
*	92–0600	Kit–Seal (Incl. Ref. #4, 6, 8–12, 15 & 16)	1

*Not Illustrated

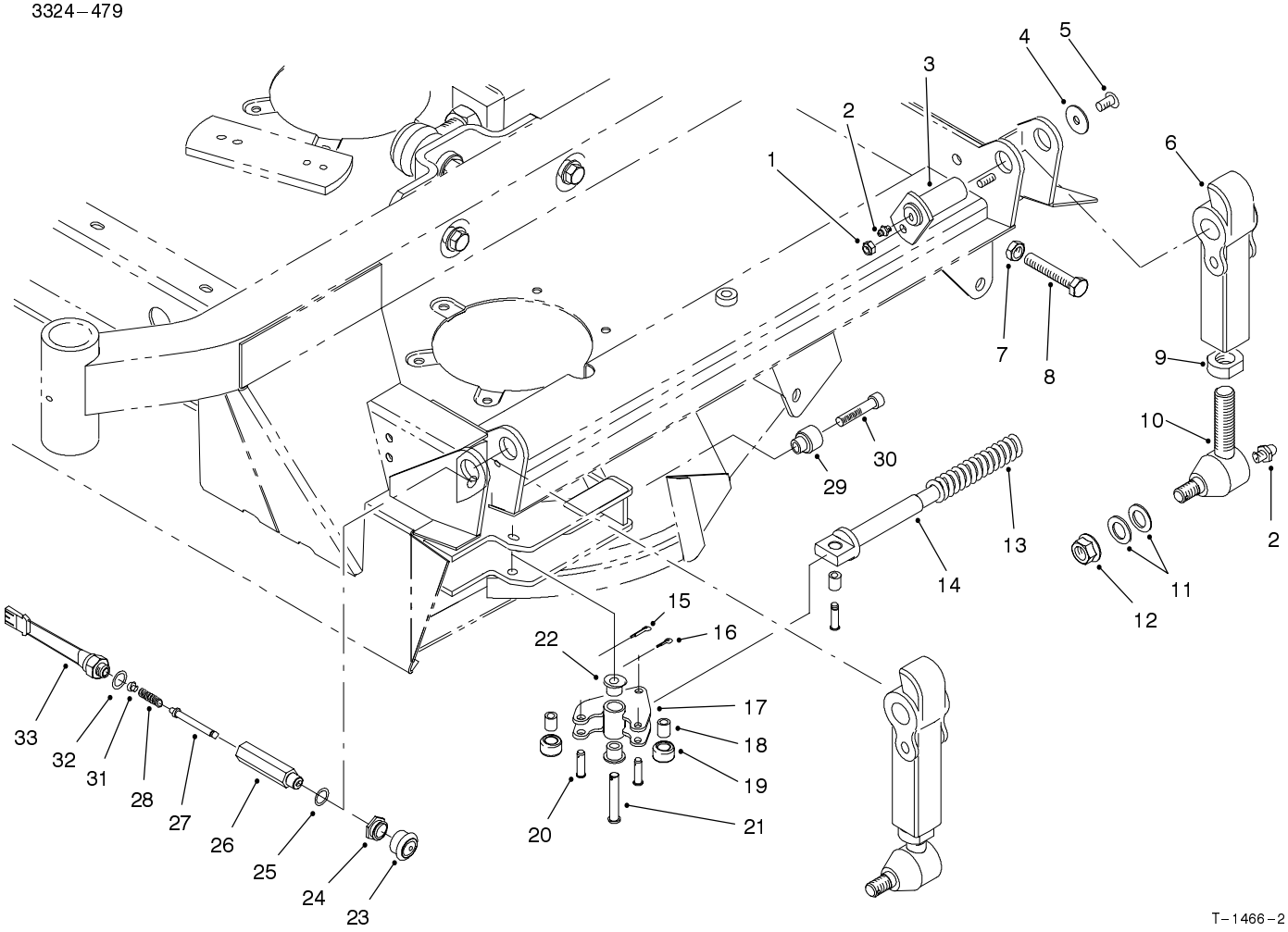


T–1460–1

Hydraulic Hose Assembly

Ref. No.	Part No.	Description	No. Used
1	340–70	Nut–Lock, Bulkhead	6
2	86–2480	Tube Assembly	1
3	86–0690	Spacer	3
4	86–2490	Tube Assembly	1
5	86–2470	Tube Assembly	1
7	86–2460	Hose Assembly	2
8	237–42	O–Ring	11
9	340–87	Fitting–Hydraulic (Incl. Ref. #8 & 10)	3
10	237–22	O–Ring	12
11	86–5460	Nipple–Coupler	3
12	340–2	Adapter–Straight (Incl. Ref. #8 & 10)	2
13	86–2630	Spring–Compression	2
14	84–6403	Orifice	2
15	340–86	Fitting–Hydraulic, Tee (Incl. Ref. #8 & 10)	2
16	340–77	Elbow–Hydraulic 90° (Incl. Ref. #8 & 10)	2
17	86–2440	Hose Assembly	2
18	86–2450	Hose Assembly	2
19	340–166	Fitting (Incl. Ref. #10)	1
20	86–2640	Cylinder Tube Assembly	2
21	86–1420	Hose–Hydraulic	1
22	92–5807	Retainer–Hardlines	2

*Not Illustrated

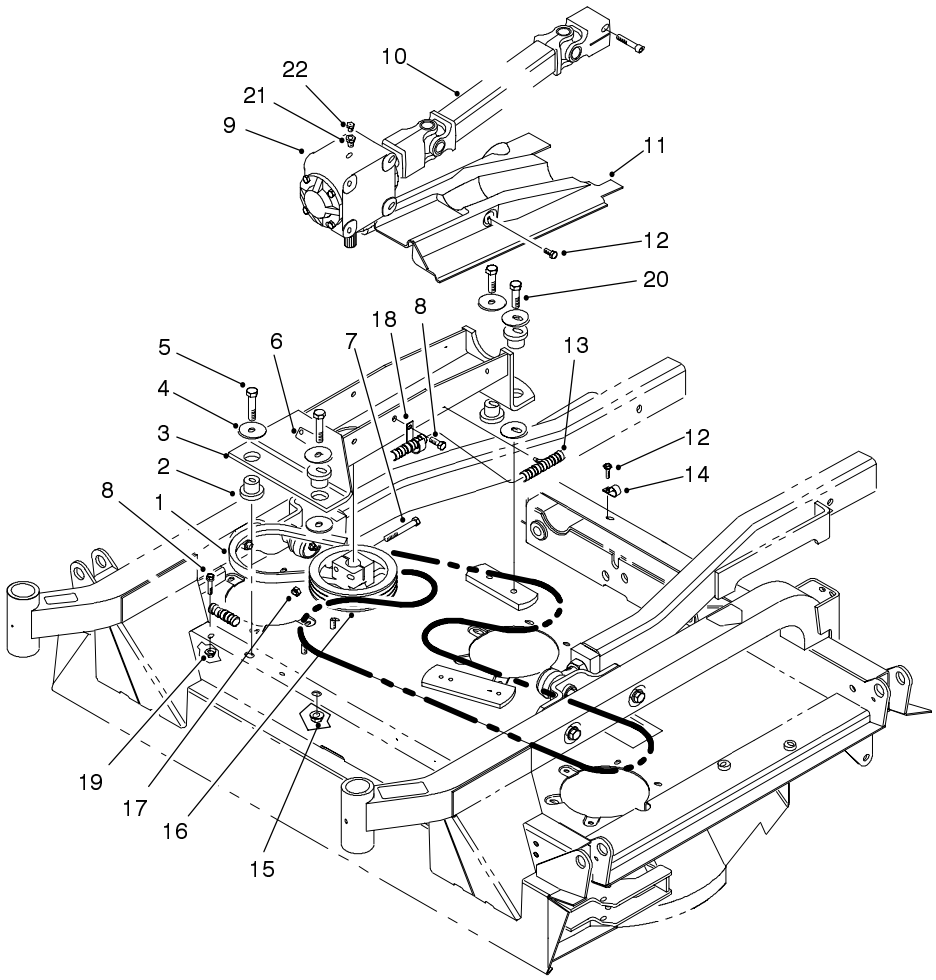


Pivot Arm Assembly

Ref. No.	Part No.	Description	No. Used
1	3296–29	Nut–Lock	4
2	302–5	Fitting–Grease	8
3	84–1350	Pin–Pivot	4
4	53–6380	Washer	4
5	323–4	Screw–HH	4
6	84–0800–01	Arm–Pivot	4
7	3218–18	Nut–Jam	2
8	60–9870	Screw	2
9	86–2070	Nut	4
10	86–2080–01	Joint–Ball (Incl. Ref. #2)	4
11	86–1440	Washer–Lock	8
12	32128–54	Nut–Flange	4
13	86–2560–01	Spring	2
14	86–2650	Support–Spring	2
15	3272–9	Pin–Cotter	2
16	3272–5	Pin–Cotter	6

Ref. No.	Part No.	Description	No. Used
17	86–2150	Lock	2
18	86–2090	Bushing	6
19	86–2120	Roller	4
20	283–61	Pin–Clevis	6
21	86–2130	Pin–Clevis	2
22	86–2180	Bushing	4
23	94–8031	Boot	2
24	94–8029	Nut– Special	2
25	237–7	O–Ring	2
26	94–8023	Guide	2
27	94–8024	Plunger	2
28	43–8600	Spring–Compression	2
29	92–4036	Cap–Rod	2
30	92–4037	Screw–SHH	2
31	43–8610	Guide–Spring, Ball & Seat	2
32	237–42	O–Ring	2
33	72–4320	Switch–Ball, N.O.	2

*Not Illustrated



T–1455–2

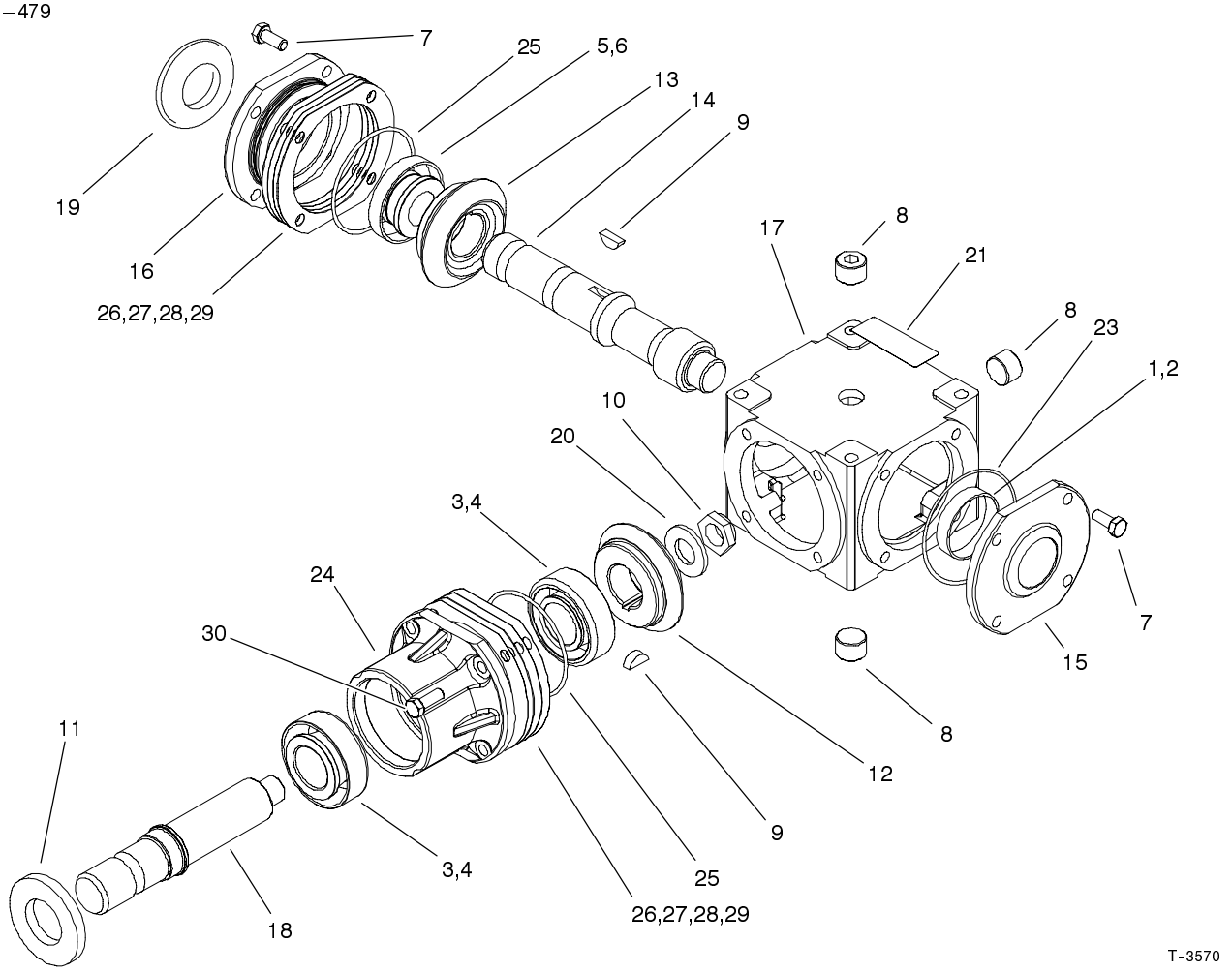
Gear Box, Mount and Drive Shaft Assembly

Ref. No.	Part No.	Description	No. Used
1	86–1970	V–Belt	1
2	84–1550	Mount–Rubber	4
3	86–2020–01	Support–Box, Gear	1
4	86–1990	Washer	6
5	325–9	Screw–Cap, HH	2
6	70–2560	Decal–Lube	1
7	323–14	Screw–Cap, HH	2
8	3234–1	Screw–Cap, HH	6
9	100–2585	Box–Gear	1
10	86–1730	Shaft–Drive	1
11	86–1830	Cover–Shaft, Drive	1
12	32144–70	Screw–HHF	3

Ref. No.	Part No.	Description	No. Used
13	95–4375	Harness–Wire	1
14	2412–138	R–Clamp	1
15	32128–23	Nut–HHF	2
16	86–1410–03	Pulley–Gearbox, 6.50 Dia.	1
*	86–3100	Pulley–Gearbox, 7.50 Dia. (Optional)	1
17	3296–39	Nut–Lock	2
18	2412–150	Clip–J	1
19	3290–357	Nut–Flange	2
20	325–7	Screw–Cap, HH	2
21	62–3550	Bushing–Reducer	1
22	62–3520	Valve–Relief, Pressure	1

*Not Illustrated

3324–479

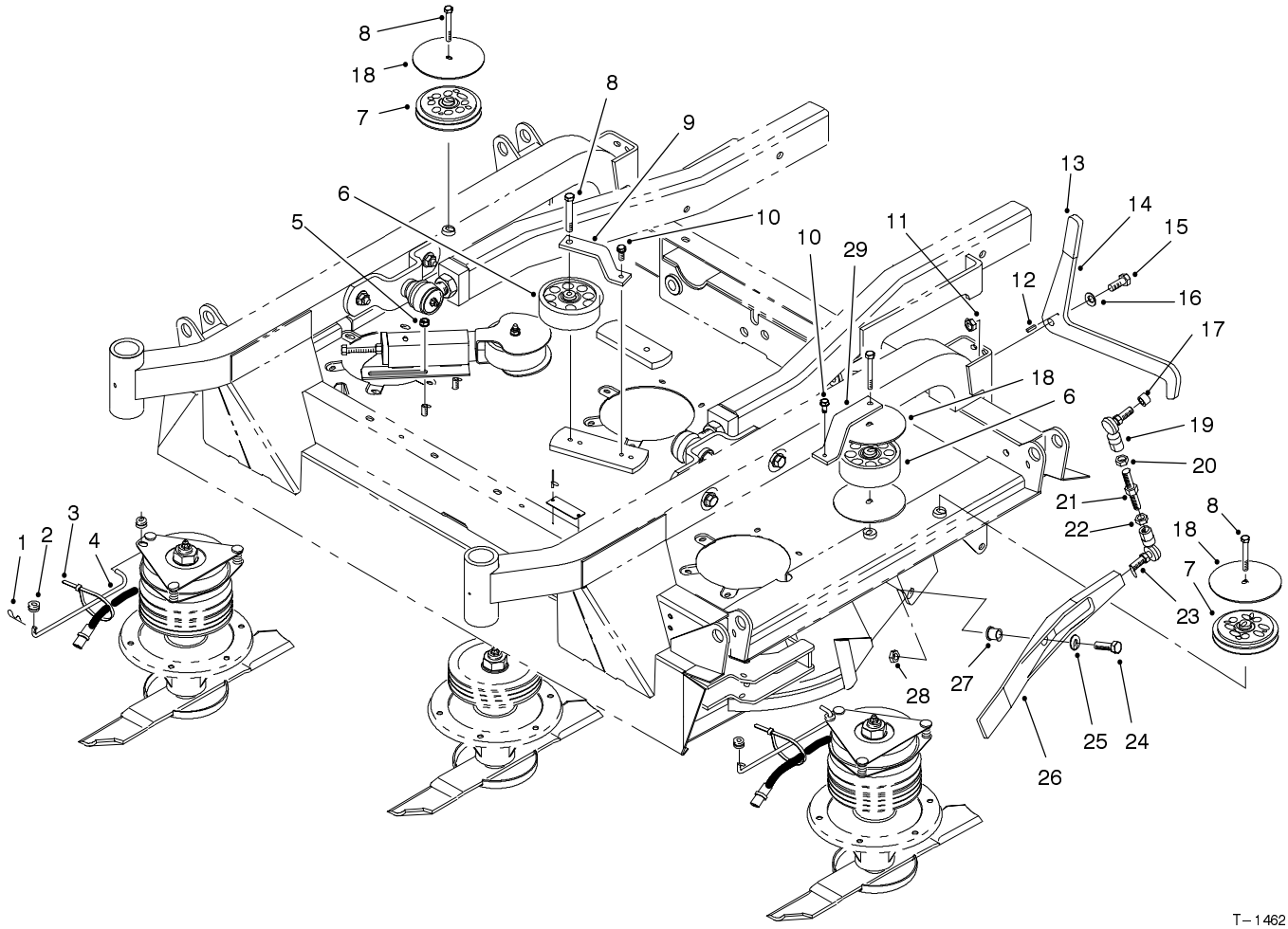


Gear Box Assembly No. 100–2585

Ref. No.	Part No.	Description	No. Used
1	100–4571	Cup–Bearing	1
2	100–4572	Cone–Bearing	1
3	104–2359	Cup–Bearing	2
4	104–2360	Cone–Bearing	2
5	100–5817	Cup–Bearing	1
6	104–2358	Cone–Bearing	1
7	100–5818	Screw–HH	8
8	100–5812	Plug	3
9	100–4580	Key–Woodruff	2
10	100–1391	Nut–Lock	2
11	104–2361	Seal	1
12	104–2367	Gear, RH	1
13	104–2368	Gear, LH	1
14	104–2362	Shaft–Input	1
15	100–9984	Cap–End, Closed	1

Ref. No.	Part No.	Description	No. Used
16	104–2357	Cap–End, Open	1
17	100–5826	Case	1
18	104–2363	Shaft–Output	1
19	104–2364	Seal	1
20	100–5824	Washer	2
21	100–4584	Cover–Transparent	1
23	100–5847	O–Ring	1
24	104–2365	Housing–Pinion	1
25	100–5848	O–Ring	2
26	100–1394	Shim–Green (.003)	3
27	100–7758	Shim–Blue	3
28	100–1396	Shim–Brown (.010)	3
29	100–7760	Shim–Yellow	3
30	104–2366	Screw	4

*Not Illustrated

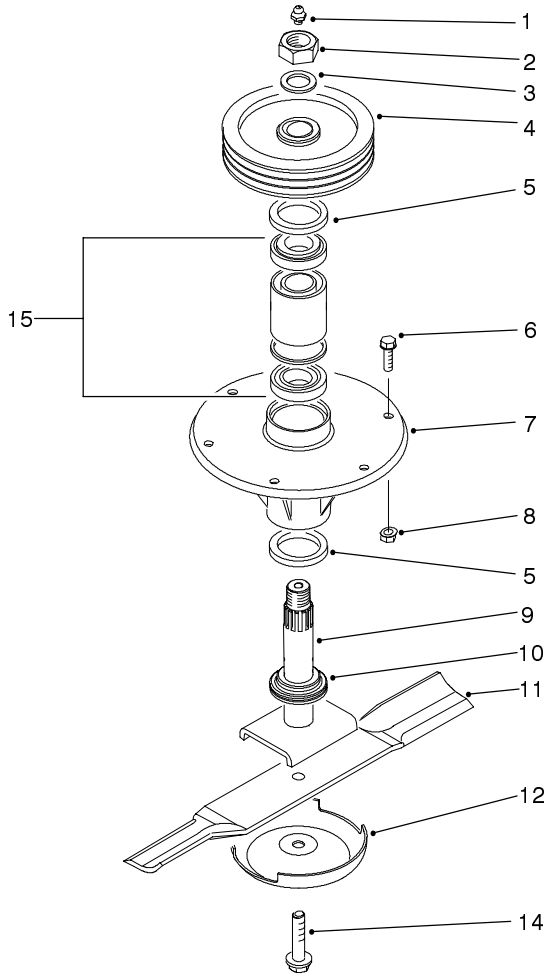


T – 1462 – 3

Center Deck Pulley Assembly

Ref. No.	Part No.	Description	No. Used
1	3290–467	Pin–Hair, Cotter	2
2	237–141	Grommet–Rubber	4
3	3290–378	Tie–Cable	2
4	86–2590	Rod–Clutch	2
5	32128–19	Nut–Lock, Flange Hd.	2
6	92–0625	Idler Pulley Assembly	2
7	92–9722	Idler Pulley Assembly	2
8	323–13	Screw–Cap, HH	4
9	86–1820–01	Bracket–Pulley	1
10	32144–70	Screw–HHF	2
11	3296–25	Nut–Lock	2
12	32121–11	Pin–Roll	2
13	48–7081	Cover–Handle	2
14	86–2400–01	Latch–Arm	2
15	325–5	Screw–Cap, HH	2

Ref. No.	Part No.	Description	No. Used
16	3290–483	Washer–Belleville	2
17	86–1560	Spacer	2
18	86–2600	Washer	4
19	86–1490	Rod End–LH Thread	2
20	3220–12	Nut–Jam, LH Thread	2
21	86–1570	Rod–Threaded	2
22	3220–5–01	Nut–Jam	2
23	86–1550	Rod End–RH Thread	2
24	325–7	Screw–Cap, HH	2
25	3256–26	Washer–Flat	2
26	92–4033–01	Trap–Door	2
27	256–243	Bushing	2
28	3296–25	Nut–Lock	2
29	92–7766–01	Bracket–Support	1

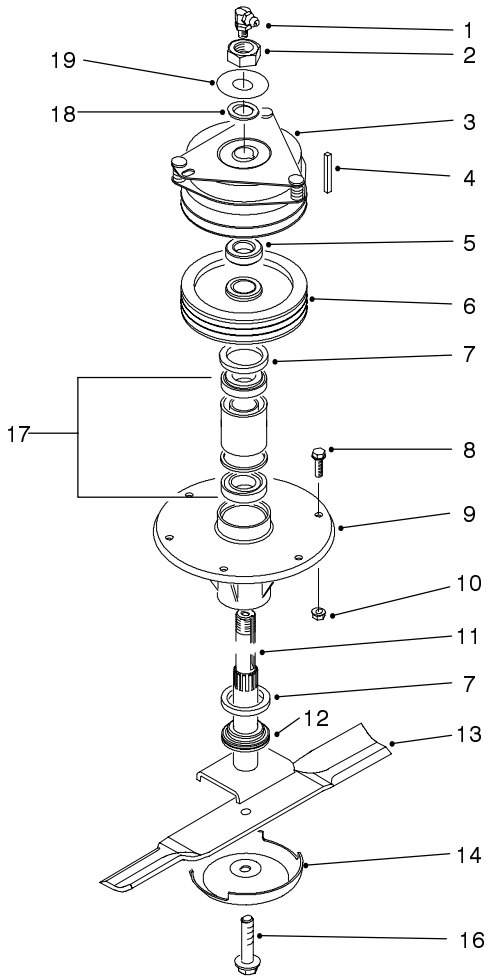


T–1328–1

Spindle Assembly (Center)

Ref. No.	Part No.	Description	No. Used
1	302–2	Fitting–Grease	1
2	3296–49	Nut–Lock	1
3	86–1480	Washer	1
4	84–0780–01	Pulley	1
5	253–154	Seal–Oil	2
6	3234–11	Screw–HHF	6
7	69–1530	Housing–Spindle	1

Ref. No.	Part No.	Description	No. Used
8	3290–357	Nut–Lock, Flange Head	6
9	95–4387	Shaft–Spindle	1
10	92–9800	Spacer–Spindle	1
11	86–0010	Blade–19”	1
12	72–9361	Cup–Anti–Scalp	1
14	92–5816	Bolt–Blade	1
15	71–2530	Bearing Assembly	1

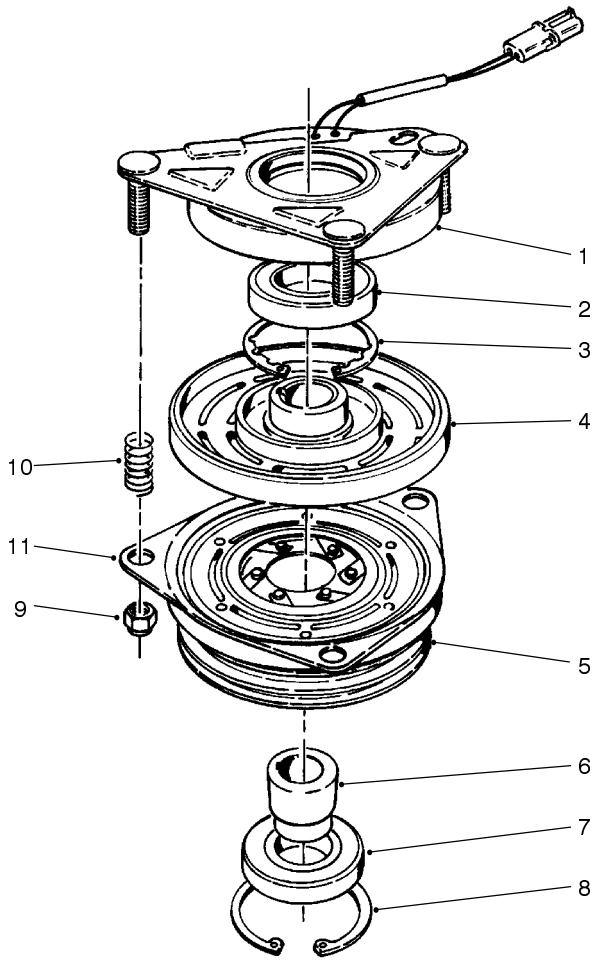


T–1329–2

Spindle Assembly (Clutch)

Ref. No.	Part No.	Description	No. Used
1	302–33	Fitting–Grease, 90°	1
2	3296–49	Nut–Lock	1
3	100–2559	Electric Clutch Assembly	1
4	68–3220	Key–Square	1
5	86–1740	Spacer	1
6	84–0780–01	Pulley	1
7	253–154	Seal–Wave	2
8	3234–11	Screw–HHF	6
9	69–1530	Housing–Spindle	1

Ref. No.	Part No.	Description	No. Used
10	3290–357	Nut–Flange	6
11	95–4388	Shaft–Spindle	1
12	92–9800	Spacer–Spindle	1
13	86–0010	Blade–19”	1
14	72–9361	Cup–Anti–Scalp	1
16	92–5816	Bolt–Blade	1
17	71–2530	Bearing Assembly	1
18	86–1480	Washer	1
19	94–8013	Washer	1

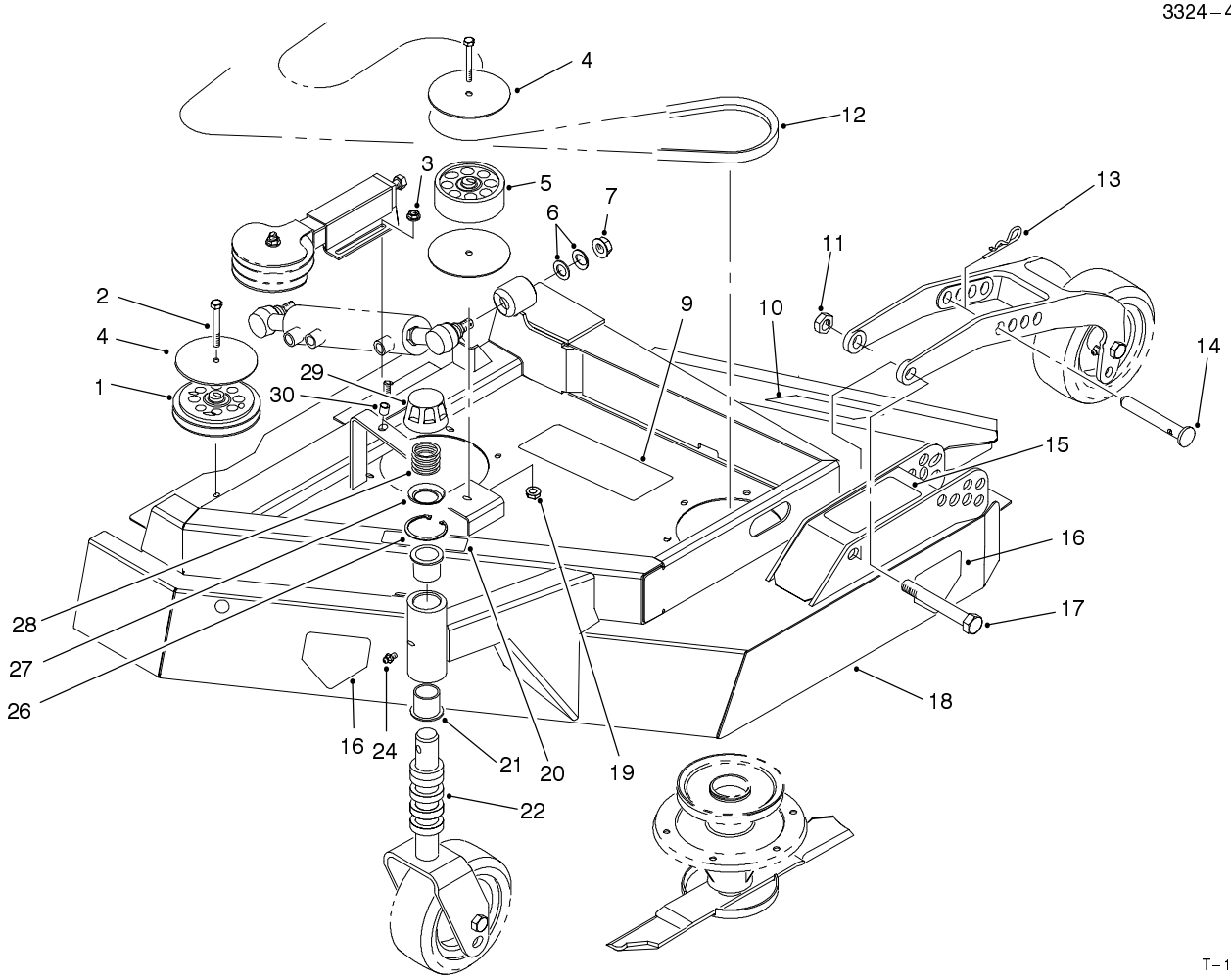


T–0544–1

Clutch Assembly No. 100–2559

Ref. No.	Part No.	Description	No. Used
1	67–7050	Field Rotor Assembly (Incl. Ref. #2–4)	1
2		Bearing–Field	1
3		Ring–Retaining	1
4		Field Coil Assembly	1
5	104–2370	Armature & Pulley Asssembly (Incl. Ref. #6–8)	1

Ref. No.	Part No.	Description	No. Used
6	67–7080	Collar–Bearing	1
7	67–7090	Bearing–Pulley	1
8	67–7060	Ring–Retaining	1
9	3296–6	Nut–Lock	3
10	44–8320	Spring	3
11	67–7100	Plate–Brake	1



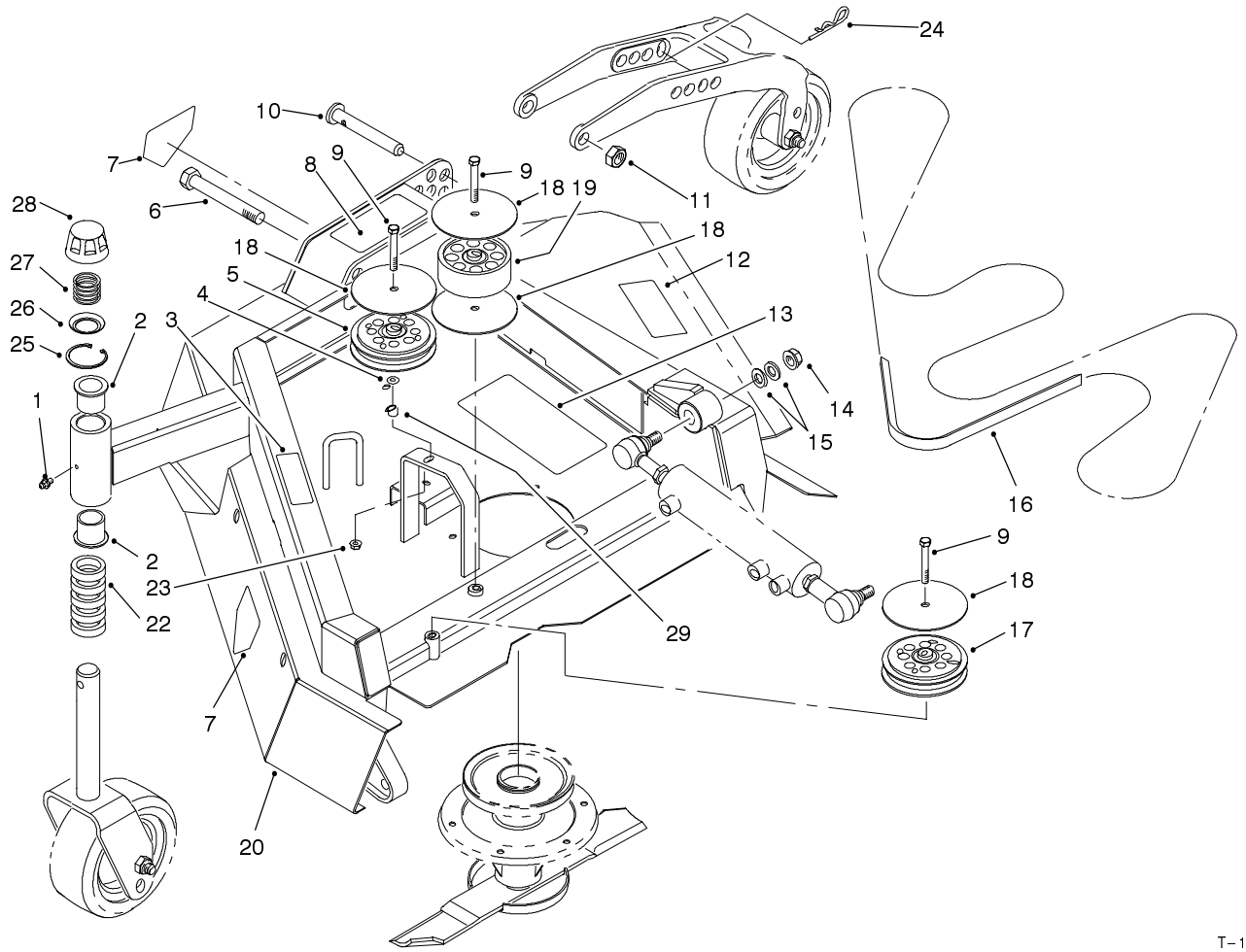
T–1454–3

Left Hand Wing Deck Assembly

Ref. No.	Part No.	Description	No. Used
1	92–9722	V–Idler Pulley Assembly	2
2	323–13	Screw–Cap, HH	2
3	32128–19	Nut–Lock, Flange Head	2
4	86–2600	Washer–Guide, Belt	3
5	92–0625	Idler Pulley Assembly	1
6	86–1440	Washer–Flat	2
7	32128–54	Nut–Flange	1
9	86–0750	Decal–Belt, LH	1
10	66–1340	Decal–Danger	1
11	3296–15	Nut–Lock	1
12	100–2588	V–Belt	1
13	3290–256	Pin–Cotter, Hair	1
14	86–2010	Pin–HOC, Wing	1
15	86–0710	Decal–HOC	1
16	43–8480	Decal–Danger	2
17	3216–6	Screw–Cap, HH	1

Ref. No.	Part No.	Description	No. Used
18	92–7756	Wing Deck Assembly LH (Incl. Ref. #9, 10, 15, 16, 20, 21 & 30)	1
19	32128–29	Nut–Lock, Flange	1
20	85–6410	Decal–Danger	1
21	69–6470	Bushing	2
22	69–1510	Spacer	5
24	302–5	Fitting–Grease	1
26	92–5581	Ring–Retaining, Internal	1
27	92–5583	Washer	1
28	92–9726	Spring–Compression	1
29	92–8861	Cap	1
30	32148–10	Insert–Threaded	1
*	92–9727	HOC Cap Assembly (Incl. Ref. #26–29)	1

*Not Illustrated

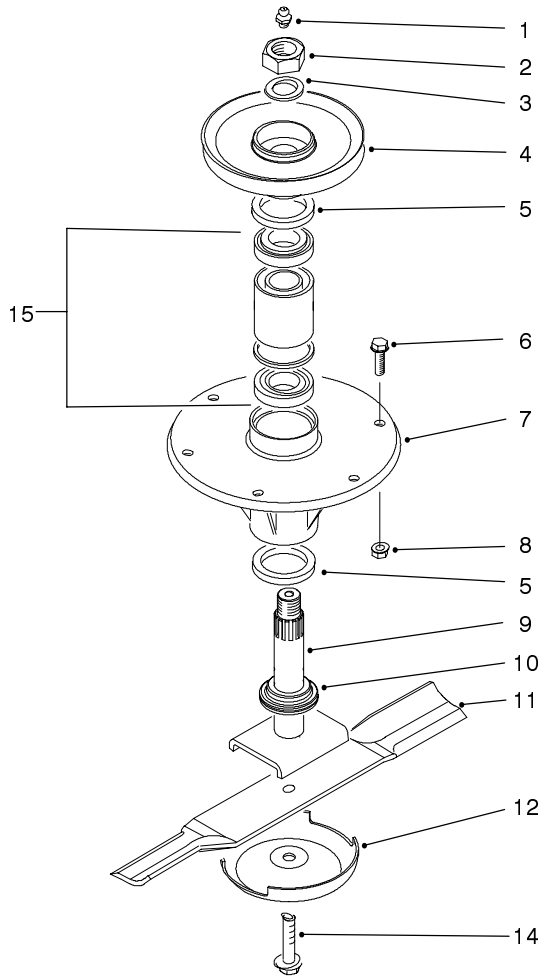


Right Hand Wing Deck Assembly

Ref. No.	Part No.	Description	No. Used
1	302–5	Fitting–Grease	1
2	69–6470	Bushing	2
3	85–6410	Decal–Danger	1
4	3256–35	Washer–Flat	1
5	104–2355	Idler Pulley Assembly	1
6	3216–6	Screw–Cap, HH	1
7	43–8480	Decal–Danger	2
8	86–0700	Decal–HOC	1
9	323–13	Screw–Cap, HH	3
10	86–2010	Pin–Pivot, HOC	1
11	3296–15	Nut–Lock	1
12	66–1340	Decal–Danger	1
13	86–0760	Decal	1
14	32128–54	Nut–Flange	1
15	86–1440	Washer–Flat	2
16	100–2588	V–Belt	1

Ref. No.	Part No.	Description	No. Used
17	92–9722	Idler Pulley Assembly	1
18	86–2600	Washer–Guide, Belt	4
19	92–0625	Idler Pulley Assembly	1
20	92–7758	RH Wing Deck Assembly (Incl. Ref. #2, 3, 7, 8, 12, 13 & 29)	1
22	69–1510	Spacer–Fork	5
23	32128–29	Nut–Lock	1
24	3290–256	Pin–Cotter, Hair	1
25	92–5581	Ring–Retaining, Internal	1
26	92–5583	Washer	1
27	92–9726	Spring–Compression	1
28	92–8861	Cap	1
29	32148–10	Insert–Threaded	1
*	92–9727	HOC Cap Assembly (Incl. Ref. #25–28)	1

*Not Illustrated

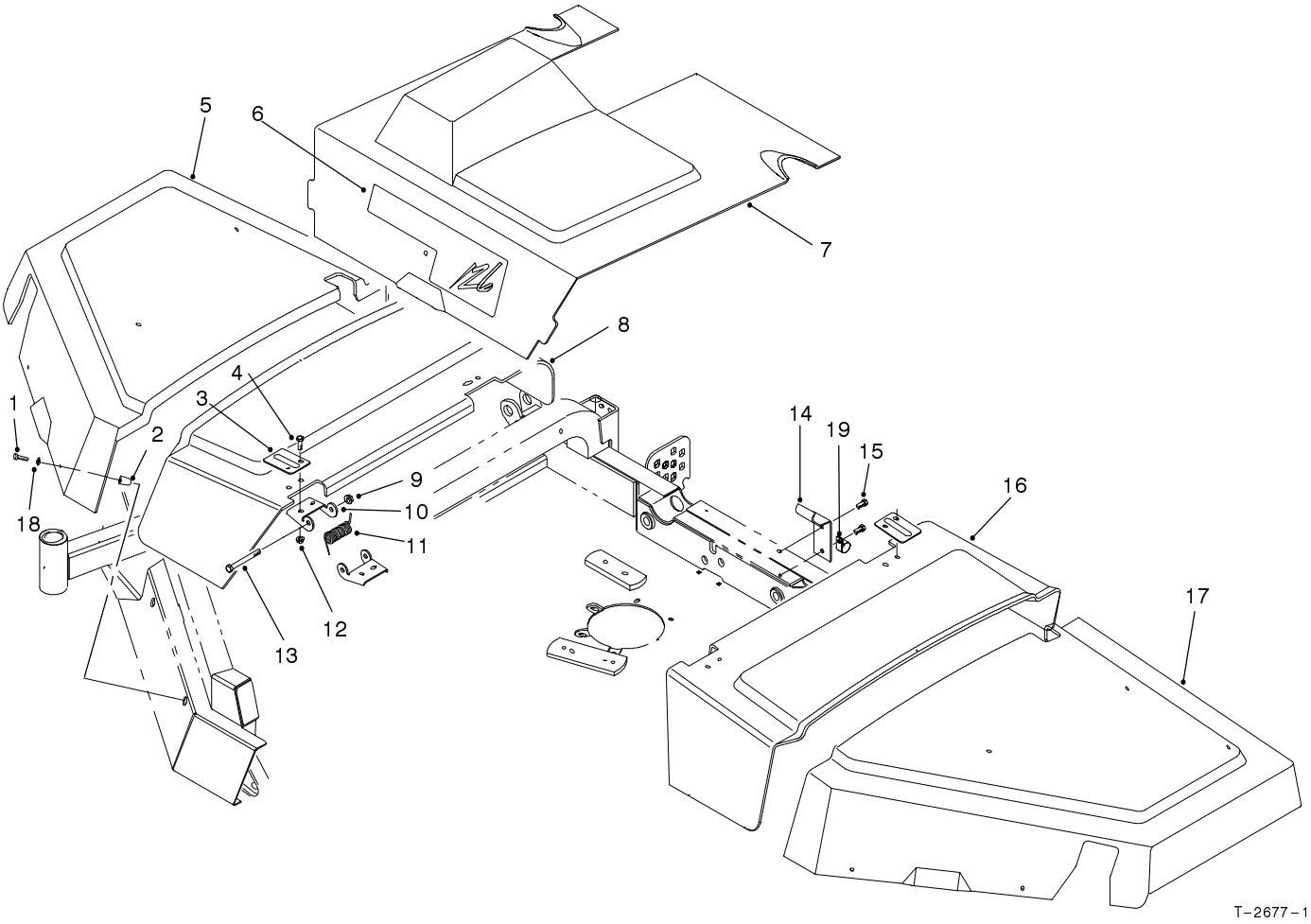


T–1327–1

Spindle Assembly (Wings)

Ref. No.	Part No.	Description	No. Used
1	302–2	Fitting–Grease	1
2	3296–49	Nut–Lock	1
3	86–1480	Washer	1
4	104-2354-03	Pulley	1
5	253–154	Seal–Oil	2
6	3234–11	Screw–HHF	6
7	69–1530	Housing–Spindle	1

Ref. No.	Part No.	Description	No. Used
8	3290–357	Nut–Flange	6
9	95–4387	Shaft–Spindle	1
10	92–9800	Spacer–Spindle	1
11	86–0010	Blade–19”	1
12	72–9361	Cup–Anti–Scalp	1
14	92–5816	Bolt–Blade	1
15	71–2530	Bearing Assembly	1



Cover Assembly

Ref. No.	Part No.	Description	No. Used
1	3250–20	Screw–PPH	8
2	86–0790	Button–Guard	8
3	86–1900–03	Plate–Hinge	4
4	3234–29	Screw–Cap, Flange Head	8
5	86–1840	Cover–RH	1
6	86–0770	Decal–Quadfloat	1
7	86–1860	Cover–Center	1
8	86–1870	Cover–Center, RH	1
9	3296–59	Nut–Lock, Flange Head	4
10	86–1890–03	Hinge	4

Ref. No.	Part No.	Description	No. Used
11	86–1920	Spring–Torsion	2
12	32128–20	Nut–Lock, Flange Head	8
13	323–15	Screw–Cap, HH	4
14	86–2660–01	Stop–Cover	1
15	32144–70	Screw	2
16	86–1880	Cover–Center, LH	1
17	86–1850	Cover–LH	1
18	3256–67	Washer–Flat	8
19	2412–138	R–Clamp	1

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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 Groundsmaster 455D has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the left front frame member. In any correspondence concerning the Groundsmaster 455D, 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 Groundsmaster 455D.
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.

COUNTRIES OTHER THAN THE UNITED STATES OR CANADA

Customers who have purchased TORO products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the TORO importer. If all other remedies fail, you may contact us at The Toro Company.

MAINTENANCE RECORD

Date								