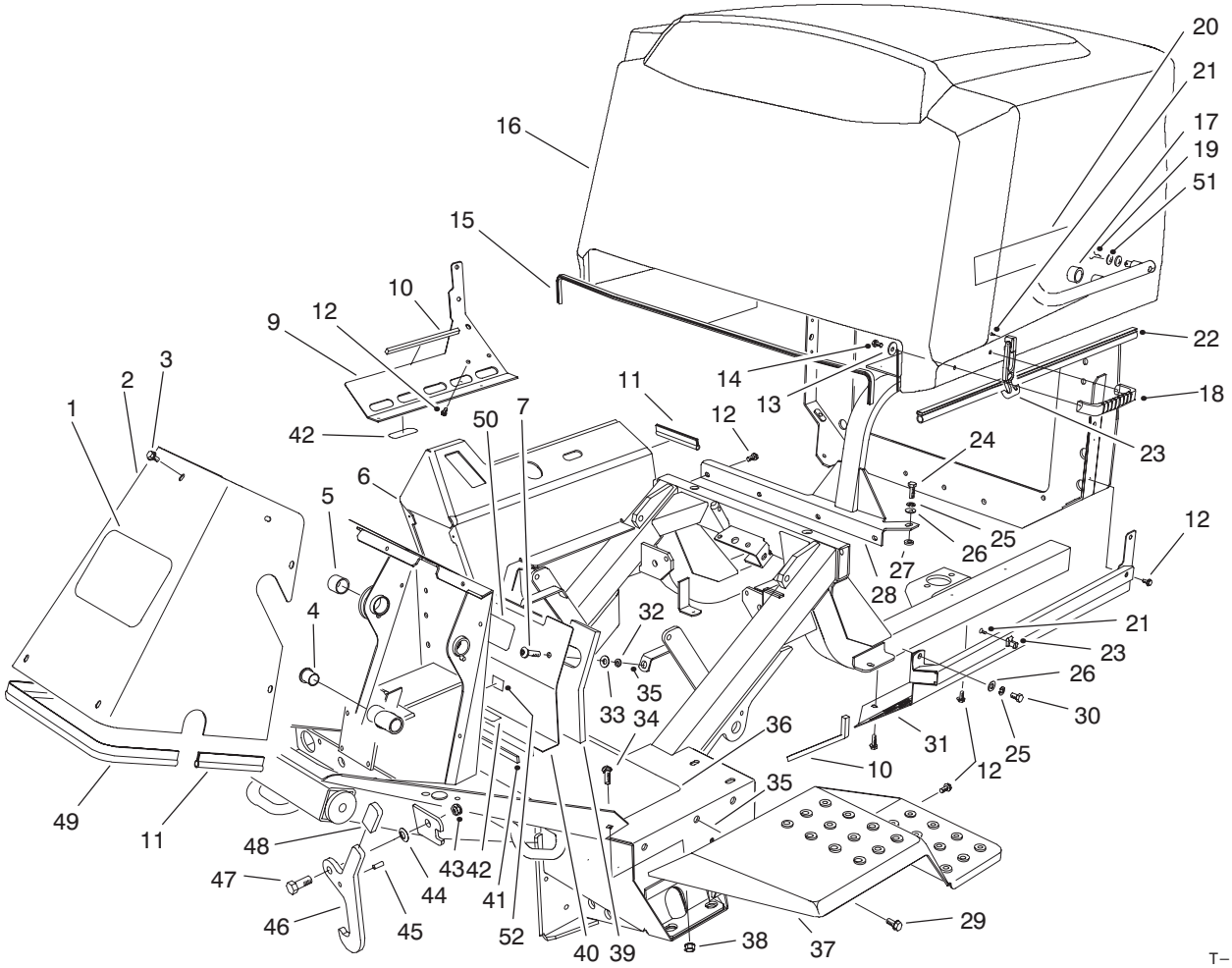
FORM NO. 3324–480

TORO®

MODEL NO. 30455TS–200000201 & UP

PARTS CATALOG

GROUNDSMASTER® 455D 4WD
TRACTION UNIT



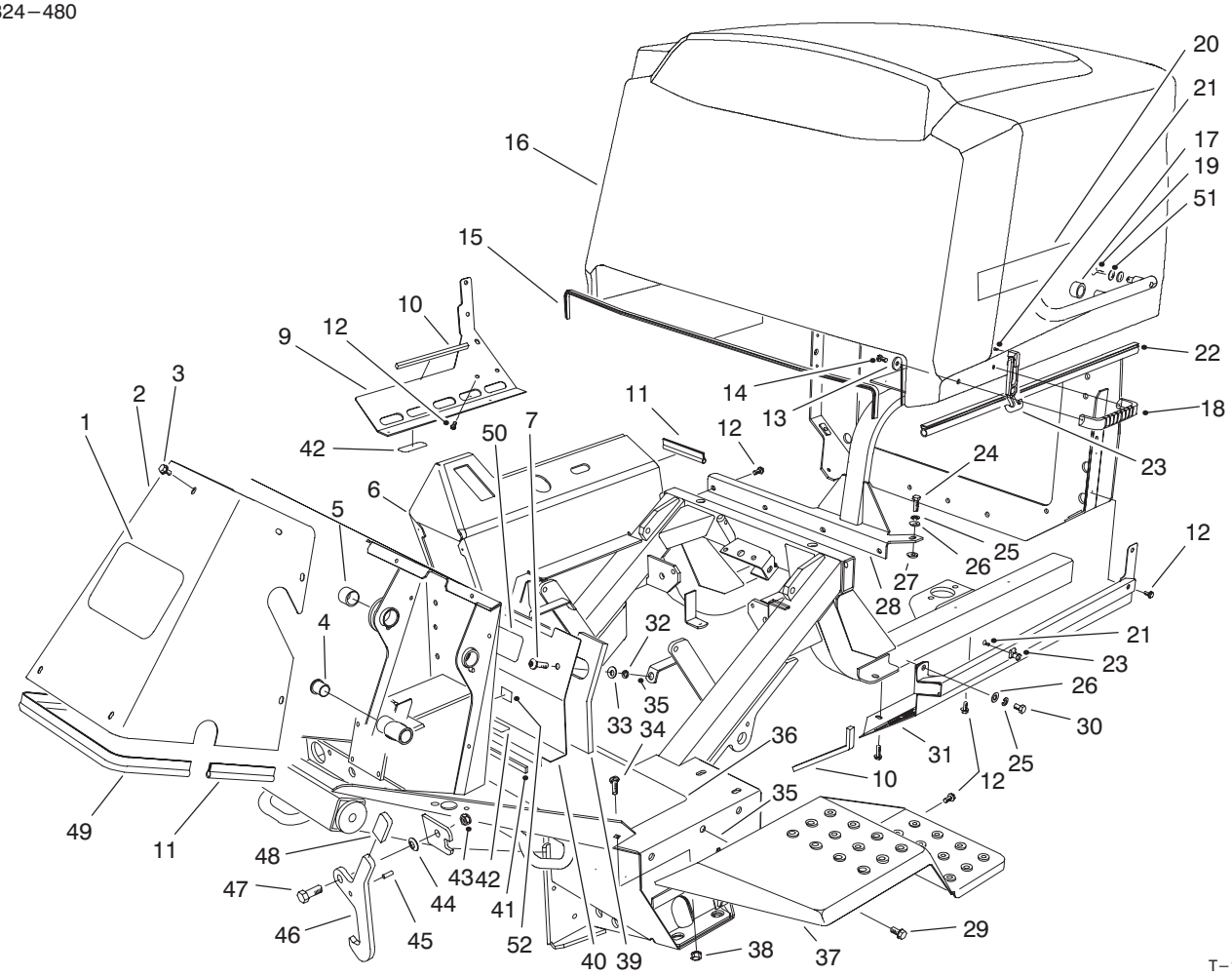
T–1512–3

FRAME & BODY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	62–7400	Decal – TORO	1
2	76–9700	Cover – Tower	1
3	46–6810	Screw – Hex. Washer Hd.	9
4	256–10	Bushing – Flange	2
5	256–237	Bushing – Sleeve	1
6	84–1080	Frame Assembly (Incl. Ref # 4, 5 & 35)	1
7	3250–36	Screw – Phillips Pan Hd.	2
9	94–5601	Support – Tank, Lower	1
10	68–7573	Seal – Shroud	2
11	76–6360	Strip – Seal	2
12	32144–11	Screw – Hex. Washer Hd.	17
13	3256–78	Washer – Flat	2
14	46–8091	Screw – Hex. Washer Hd.	2
15	94–5618	Trim – Fire Wall	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 – Round Hd.	3
22	94–5617	Seal – Strip, Hood	2
23	94–5626	Latch – Draw	1
24	323–6	Screw – Cap Hex. Hd.	1
25	3253–21	Washer – Lock	2
26	3256–24	Washer – Flat	2
27	80–7730	Spacer	1
28	93–7236	Air Cleaner Support Asm	1
29	74–4090	Tread – Foot Rest	1
30	323–4	Screw – Cap Hex. Hd.	1
31	94–5609	Cover Asm – Hood, Lower	1
32	32151–72	Ring – Retaining	2
33	3256–3	Washer – Flat	2

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TPS



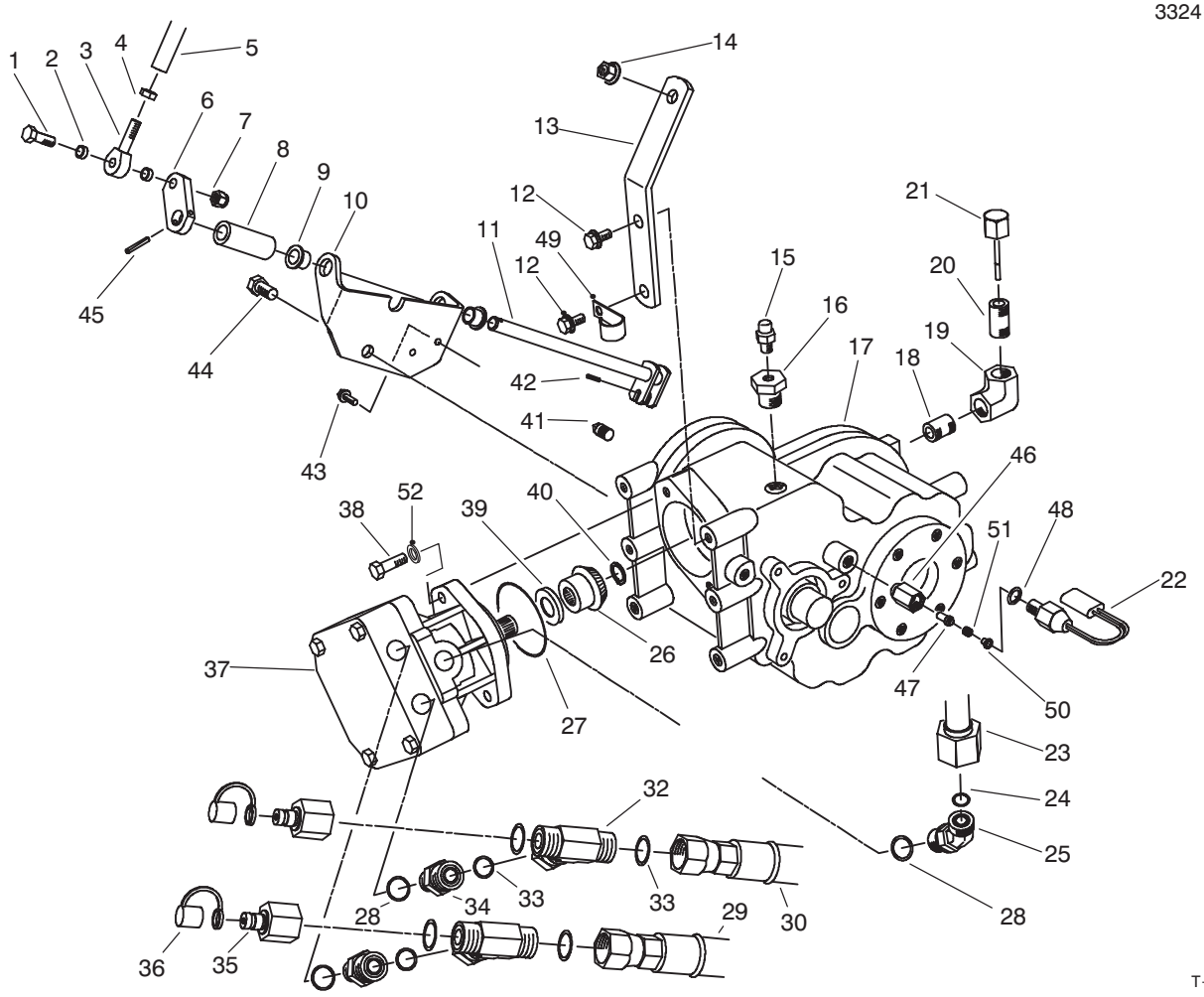
T−1512−3

FRAME & BODY ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
34	3231−22	Bolt − Carriage	2
35	32148−10	Insert − Threaded	10
36	3234−12	Screw − Hex. Washer Hd.	7
37	76−9300	Fender L.H.	1
*	76−9340	Fender R.H.	1
38	3290−357	Nut − Flange	2
39	88−1310	Foam − Cover	1
40	100−2594	Cover − Seat Front	1
41	76−6380	Strip − Seal Access Panel	1
42	93−6697	Decal − Oil	2

Ref. No.	Part No.	Description	No. Used
43	3296−25	Nut − Lock	2
44	3290−483	Washer − Belleville	2
45	32121−36	Pin − Roll	2
46	93−7203	Latch − Lockup	2
47	325−5	Screw − Cap Hex. Hd.	2
48	48−7081	Sleeve	2
49	76−6361	Strip − Seal	1
50	93−9425	Decal − Danger	1
51	83−1470	Washer − Neoprene	2
52	93−7252	Decal − CE	1

*Not Illustrated



T−1506−1

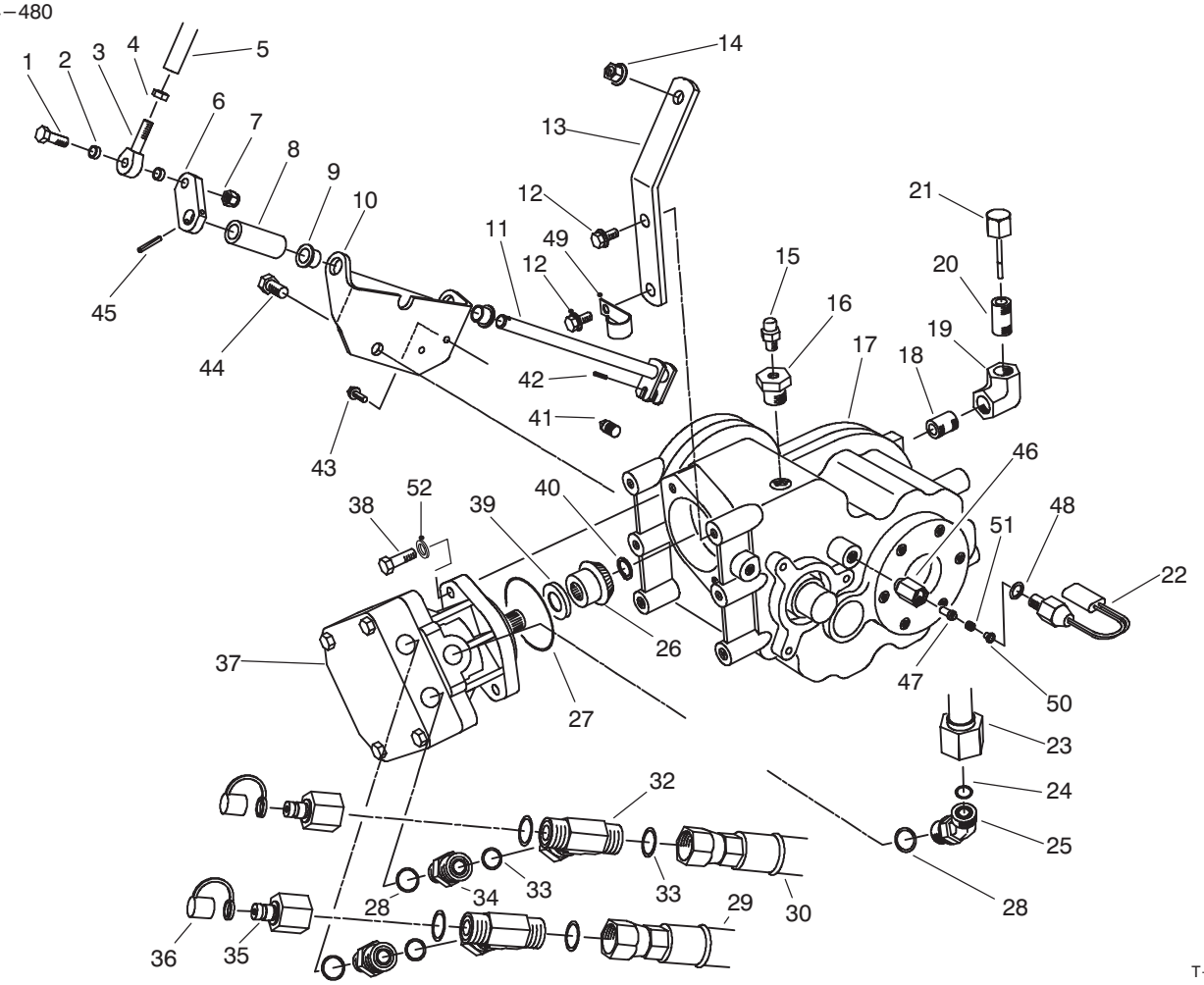
FRONT TRANSAXLE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323−9	Screw − Cap Hex. Hd.	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 − Hex. Flange Hd.	2
13	84−1600	Bracket − Support, Trans.	1
14	3290−357	Nut − Flange Head	1
15	302−14	Plug − Vent	1
16	2812−11	Bushing − Reducer	1
17	99−7566	Transaxle − 2 Speed (Incl. Ref. No. 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	Assy. − Tube, Drain	1
24	237−30	O−Ring	1

Ref. No.	Part No.	Description	No. Used
25	340−101	Fitting − Hydraulic (Incl. Ref. #24 & 28)	1
26		Pinion − Spiral	1
27	237−167	O−Ring	1
28	237−79	O−Ring	3
29	92−5830	Assy. − Hose, Traction L.H.	1
30	92−7765	Assy. − Tube	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 − Fixed Displacement	1
38	323−7	Screw − Cap Hex. Hd.	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 Hex. Hd.	2
44	325−2	Screw − Cap Hex. Hd.	1
45	32121−6	Pin − Roll	1

*Not Illustrated

3324−480



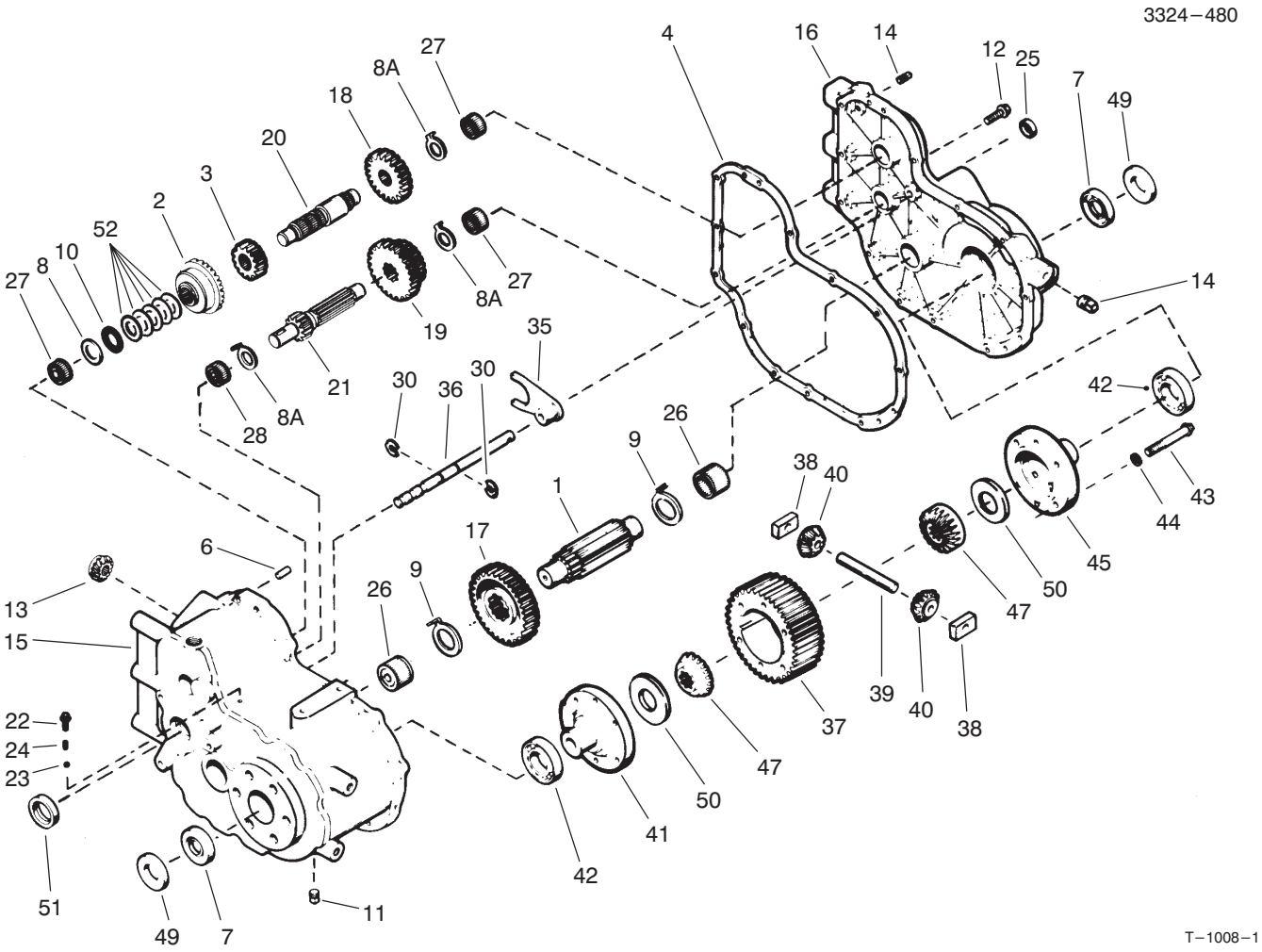
T−1506−1

FRONT TRANSAXLE INSTALLATION ASSEMBLY (Cont.)

Ref. No.	Part No.	Description	No. Used
46	92−1364	Guide − Switch, Pin	1
47	92−1365	Plunger − Switch	1
48	237−30	O−Ring	1
49	2412−150	Clip − J	1

Ref. No.	Part No.	Description	No. Used
50	43−8610	Guide − Spring & Ball	1
51	92−1366	Spring − Compression	1
52	3256−24	Washer − Flat	2

*Not Illustrated

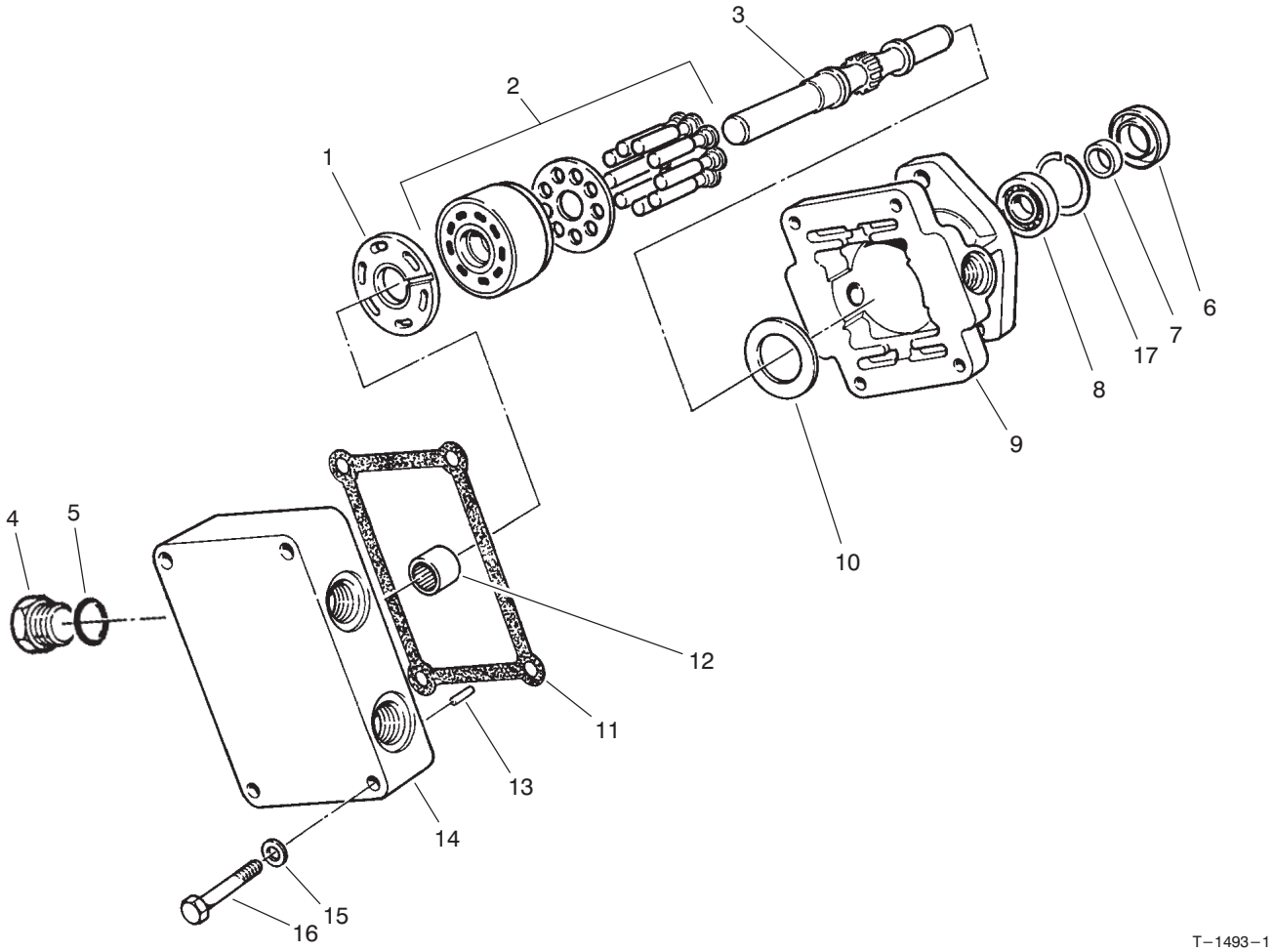


TRANSAXLE ASSEMBLY NO. 99−7566−03

Ref. No.	Part No.	Description	No. Used
1	76−5610	Pinion − Output	1
2		Gear − Spiral Bevel	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−Magnetic − Drain	1
12	76−5720	Screw − Hex Hd.	13
13		Pinion − Spiral Bevel	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 − Hex Flanged Hd.	1
23	76−5830	Ball − Steel	1
24	76−5840	Spring − Shifter Fork	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 − Hex Flanged Hd.	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	Spiral Gear Set (Matched) (Incl. Ref. #2 & 13)	1
*	99−7567	Differential Assembly (Incl. Ref. #37−47 & 50)	1

*Not Illustrated
†Not Serviced Separately

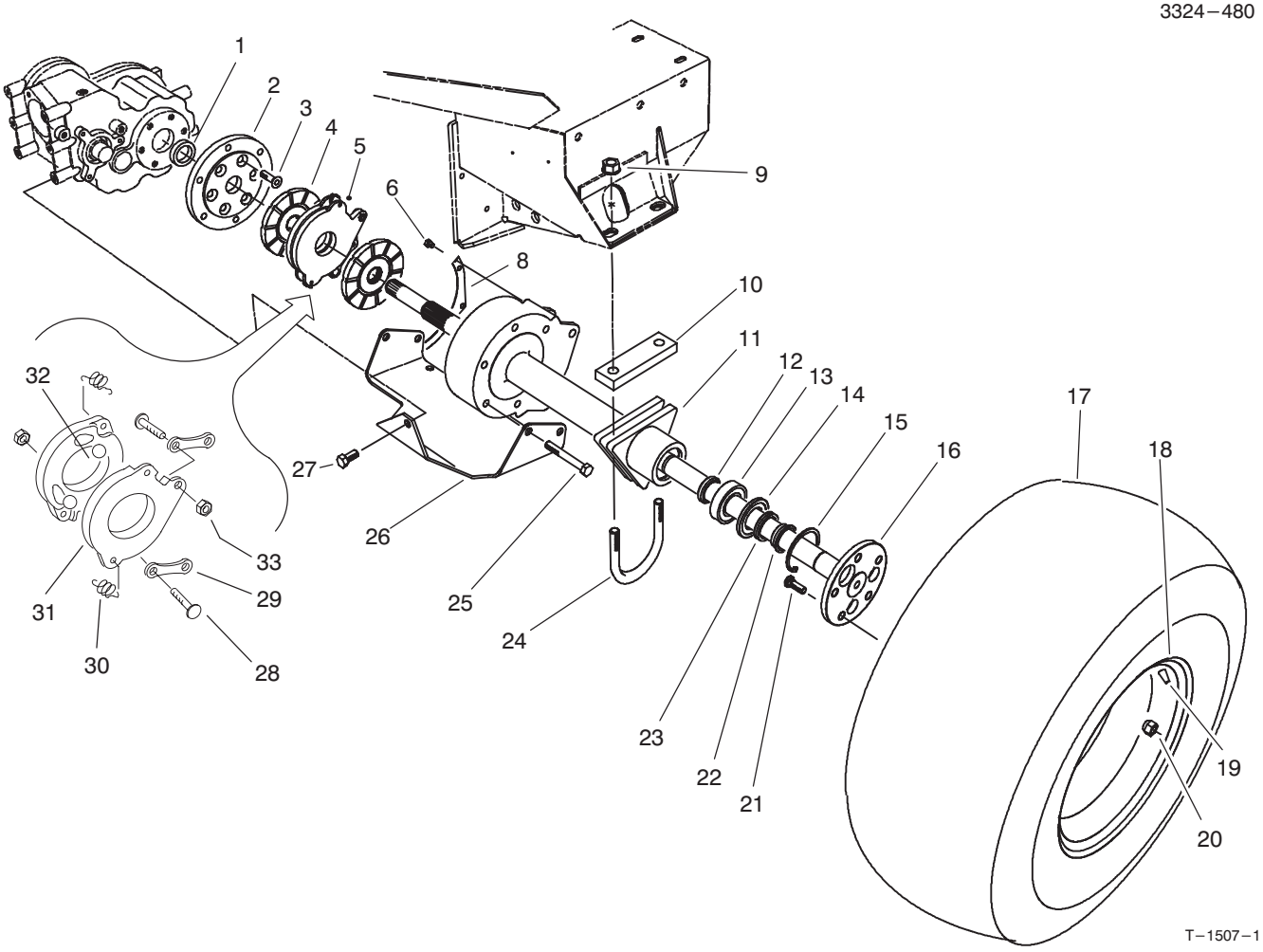


T−1493−1

HYDRAULIC MOTOR NO. 92−2556−03

Ref. No.	Part No.	Description	No. Used
1	28−3380	Plate − Valve	1
2	48−1800	Cylinder Block Kit	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

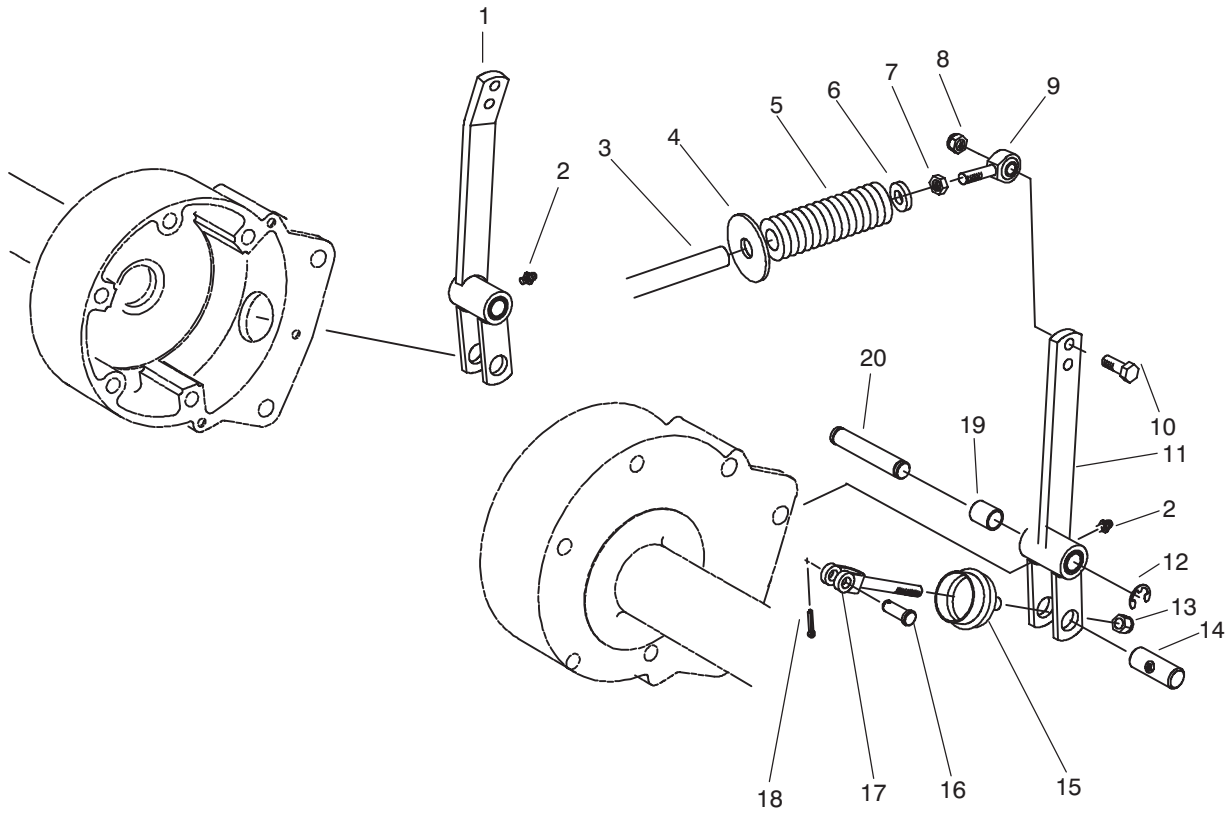
Ref. No.	Part No.	Description	No. Used
10	25−2380	Plate − Thrust	1
11	67−9100	Gasket	1
12	77−3640	Bearing	1
13	25−2430	Pin − Straight	1
14	92−2572	End Cap Assembly (Incl. Ref. #12)	1
15	74−9510	Washer − Flat	1
16	74−9500	Screw − Cap Hex. Hd.	4
17	82−4970	Ring − Retaining	1



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 − Flat Hd. Socket	12
4	74−3640	Disc − Brake	4
5	74−3630	Actuator − Brake (Incl. Ref. #28−33)	2
6	3234−30	Screw − Hex. Hd. Flange	6
8	76-8300-03	Cover − Housing, Axle	2
9	32128−50	Nut − Lock, Flange Hd.	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	217−124	Rim	2
19	232−27	Stem − Valve	2
20	23−7270	Nut − Wheel	10
21	242−34	Stud − Axle	10
22	92−9706	Spacer − Axle Shaft	2
23	92−9712	Seal − V−Ring	2
24	84−1590	U−Bolt	2
25	325−15	Screw − Cap Hex. Hd.	10
26	86-5430-03	Plate − Skid	1
27	325−4	Screw − Cap Hex. Hd.	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

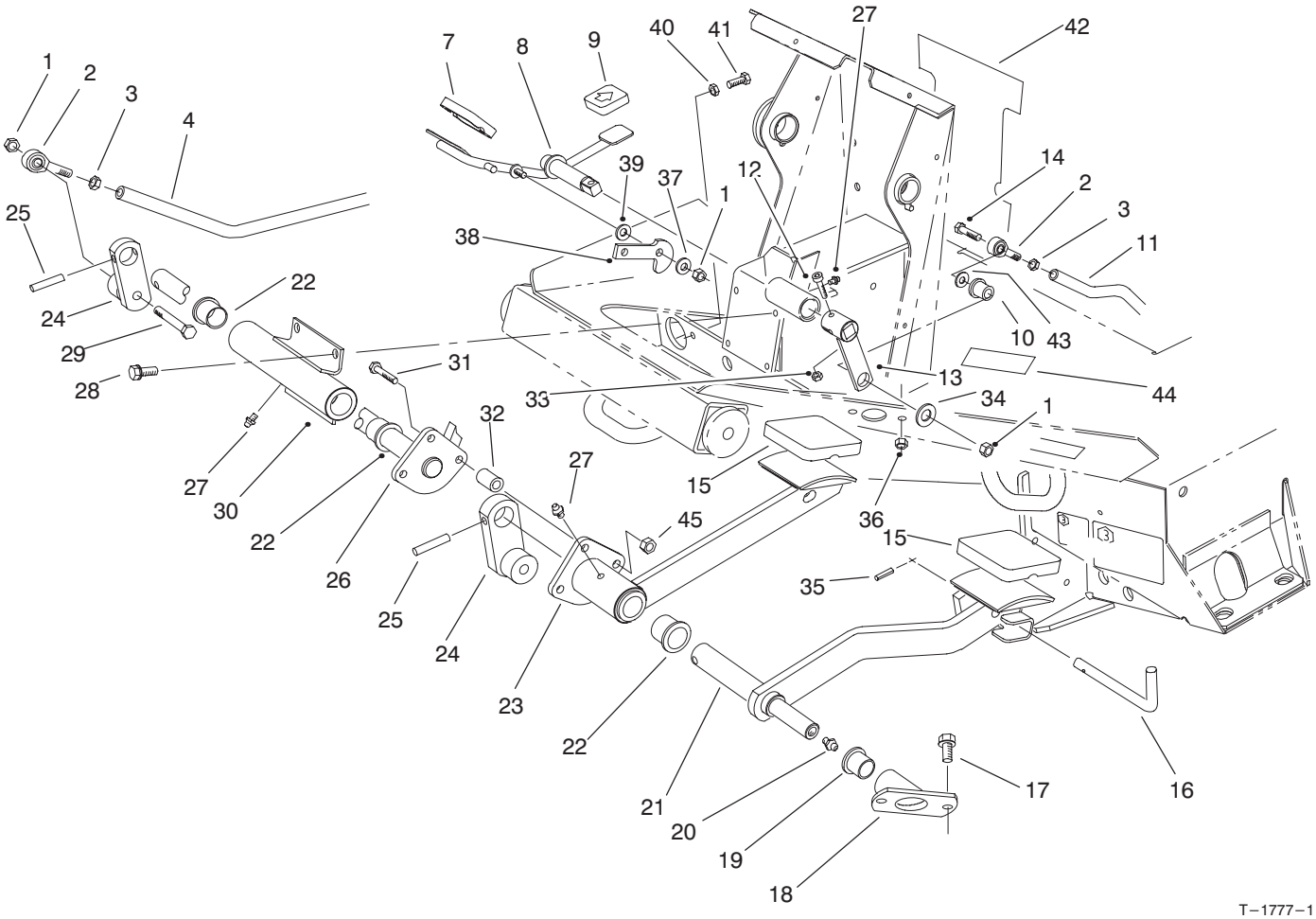


T−1491−1

BRAKE LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	84−0940	Assy. − Brake Linkage Arm R.H. (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	Rod End	2
10	323−7	Screw − Cap Hex.. Hd.	2

Ref. No.	Part No.	Description	No. Used
11	84−0970	Assy. − Brake Linkage Arm L.H. (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 − Brake Rod	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

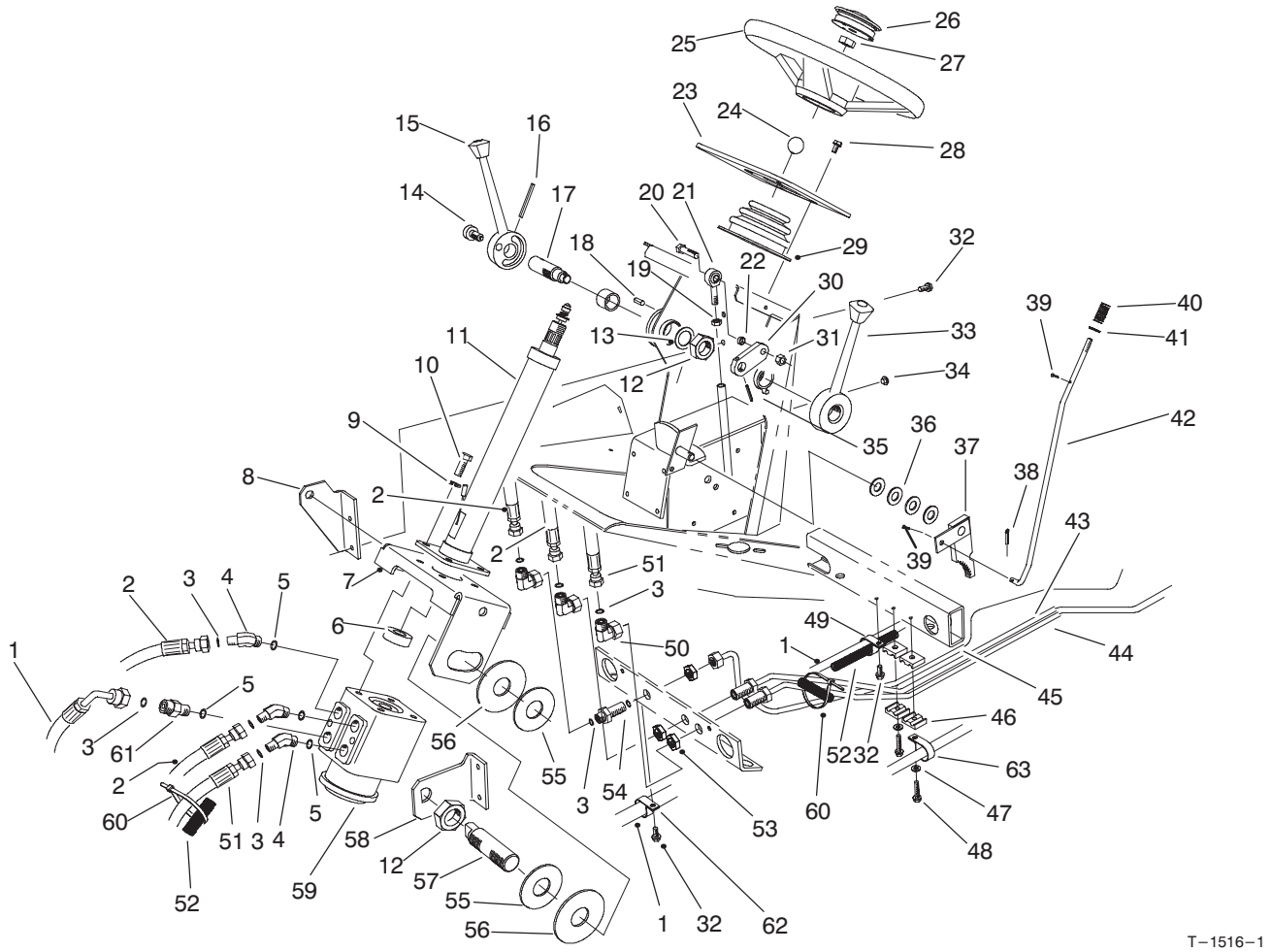


T−1777−1

TRACTION & 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	Rod − Brake Linkage	2
7	74−9100	Pad − Forward Pedal	1
8	82-5190-03	Shaft − Traction Pedal	1
9	74−9110	Pad − Reverse Pedal	1
10	63−9751	Mount − Linkage Rod	1
11	88-1160-03	Rod − Traction Linkage	1
12	3274−19	Screw − Cap Socket Hd.	1
13	92−1367	Arm − Traction Linkage	1
14	323−9	Screw − Cap Hex. Hd.	1
15	82−4960	Pad − Brake	2
16	63−7880	Latch − Brake	1
17	3234−14	Screw − Hex. Flange Hd.	2
18	76−9680	Bearing Housing Assembly (Incl. Ref. #19)	1
19	256−90	Bushing − Flange	1
20	302−2	Fitting − Grease	1
21	92-5804-03	Pedal − Brake L.H.	1
22	256−10	Bushing − Flange	4
23	92−5805	Brake Pedal Assembly R.H. (Incl. Ref. #22 & 27)	1

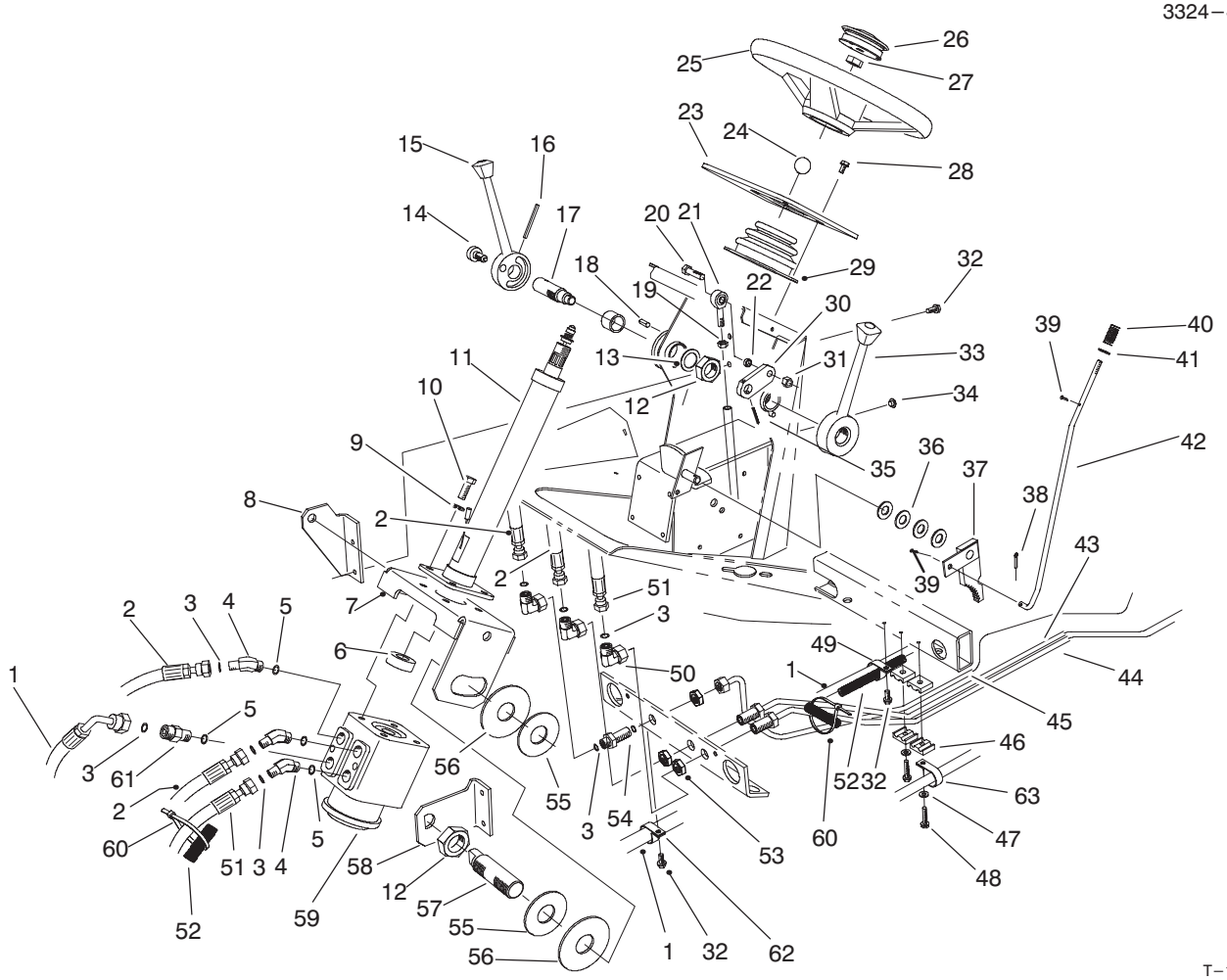
Ref. No.	Part No.	Description	No. Used
24	92-2586-03	Arm − Brake Linkage	2
25	32121−25	Pin − Roll	2
26	92-5806-03	Shaft − Brake	1
27	302−5	Fitting − Grease	3
28	32144−11	Screw − Hex. Flange Hd.	4
29	323−12	Screw − Cap Hex. Hd.	2
30	76−9030	Bearing Housing Assembly (Incl. Ref. #22 & 27)	1
31	322−21	Screw − Cap Hex. Hd.	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 Hex. Hd.	2
42	93−9423	Decal − Operation	1
43	3256−3	Washer − Flat	1
44	93−9414	Decal − Warning	1
45	32152−1	Nut − Lock	3



STEERING TOWER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	86−5570	Assembly − Hose	1
2	86−3220	Assembly − Hose	2
3	237−22	O−Ring	10
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 Hex. Hd.	4
11	74−3670	Assy. − Column, Steering	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 Hex. Hd.	1
21	2411−36	Rod End	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 − Hex. Washer Hd.	4
29	76−9450	Boot − Column, Steering	1
30	84−0680	Link − Shift	1
31	3296−59	Nut − Lock	1
32	32144−11	Screw − Hex. Washer Hd.	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	Assy. − Tube, R.H. Front	1
44	86−5740	Assy. − Tube, L.H. Front	1
45	94−8299	Assy. − Tube, Steering	1
46	56−7973	Clamp − Tube	4
47	3256−71	Washer − Flat	2
48	32144−57	Screw − Hex. Washer Hd.	2
49	2412−74	Clamp − R	2
50	340−159	Fitting − Hydraulic (Incl. Ref. #3)	3

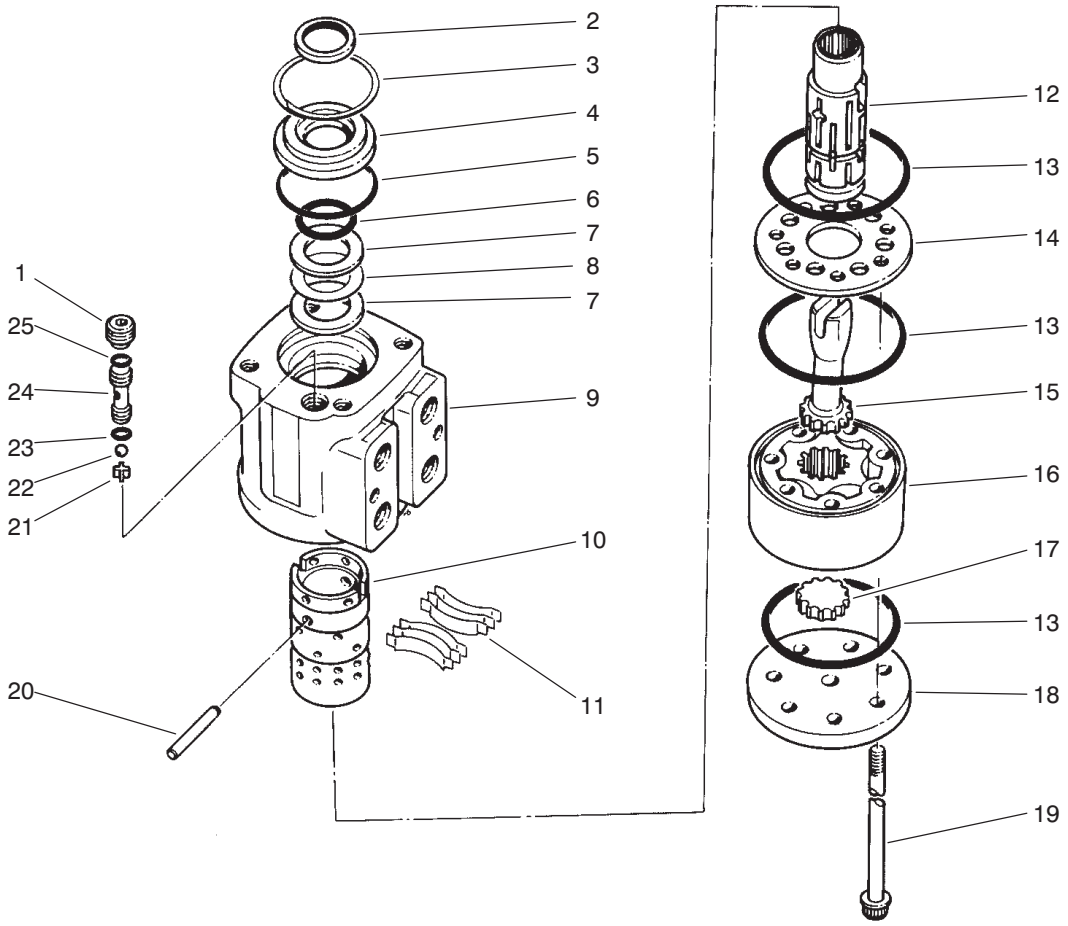


T−1516−1

STEERING TOWER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	86−3210	Assembly − Hose	1
52	95−4375	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

Ref. No.	Part No.	Description	No. Used
57	76−8340	Shaft − Pivot, Steering	1
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	Clamp − R	1



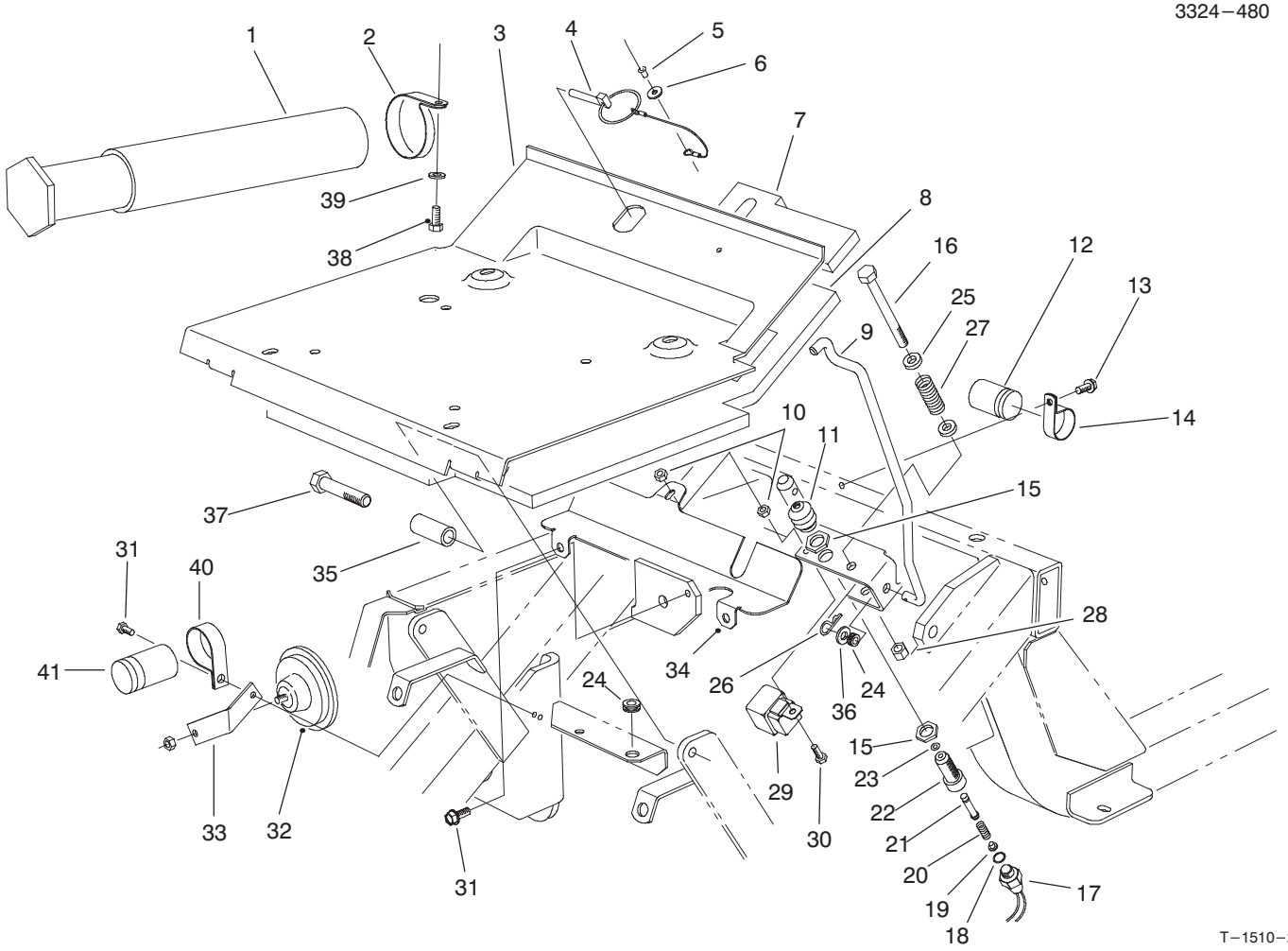
T–1007–1

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	Centering Spring Kit	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–Centering Pin	1
21	52–9290	Retainer–Check Ball	1
22	52–9280	Ball–Check	1
†23		Seal	1
24	52–9270	Seat–Ball, Check	1
†25		Seal	1
*	52–9250	Needle Bearing Kit (Incl. Ref. #7–8)	1
*	92–9749	Seal Kit (Incl. Ref. #2, 5–6, 13, 23 & 25)	1
*	92–9745	End Cap Kit (Incl. Ref. #14, 18 & 19)	1

*Not Illustrated
†Not Serviceable Separately

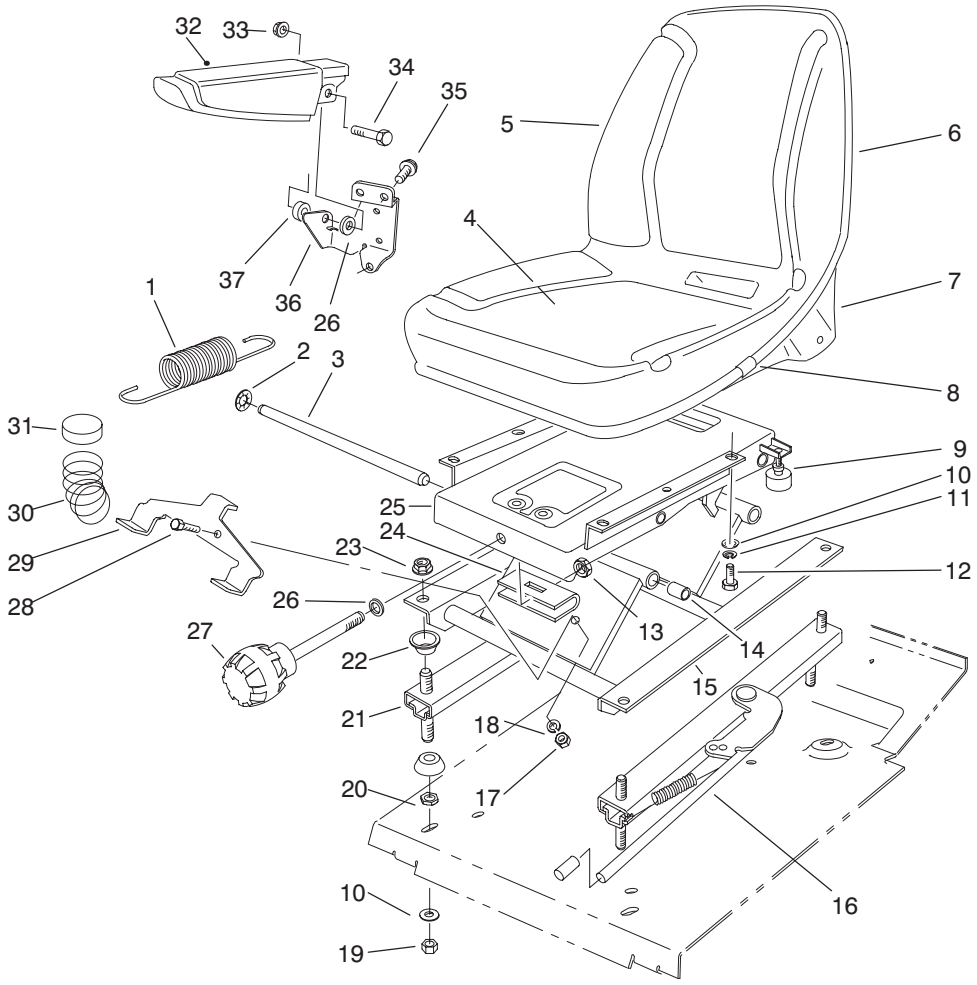


SEAT PLATE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	74−0720	Tube − Manual	1
2	2412−133	Clamp − R	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 − Seat Front	1
9	76−9440	Rod − Seat Prop	1
10	32128−33	Nut − Lock	2
11	43−8870	Boot − Switch	1
12	37−2690	Capacitor	1
13	32104−82	Screw − Hex. Washer Hd.	1
14	2412−74	Clamp	1
15	218−461	Nut − Hex	2
16	323−17	Screw − Hex. Hd.	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
22	43−8620	Guide − Pin, Switch	1

Ref. No.	Part No.	Description	No. Used
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 Hex. Hd.	1
31	32144−11	Screw − Hex. Washer Hd.	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	3256−3	Washer − Flat	1
37	325−9	Screw − Cap Hex. Hd.	2
38	322−2	Screw − Cap Hex. Hd.	2
39	3256−23	Washer − Flat	2
40	2412−74	Clamp − R	1
41	37−2690	Capacitor	1
*	43−9071	Seat Switch Assembly (Incl. Ref. #11, 15, & 17−23)	1

*Not Illustrated



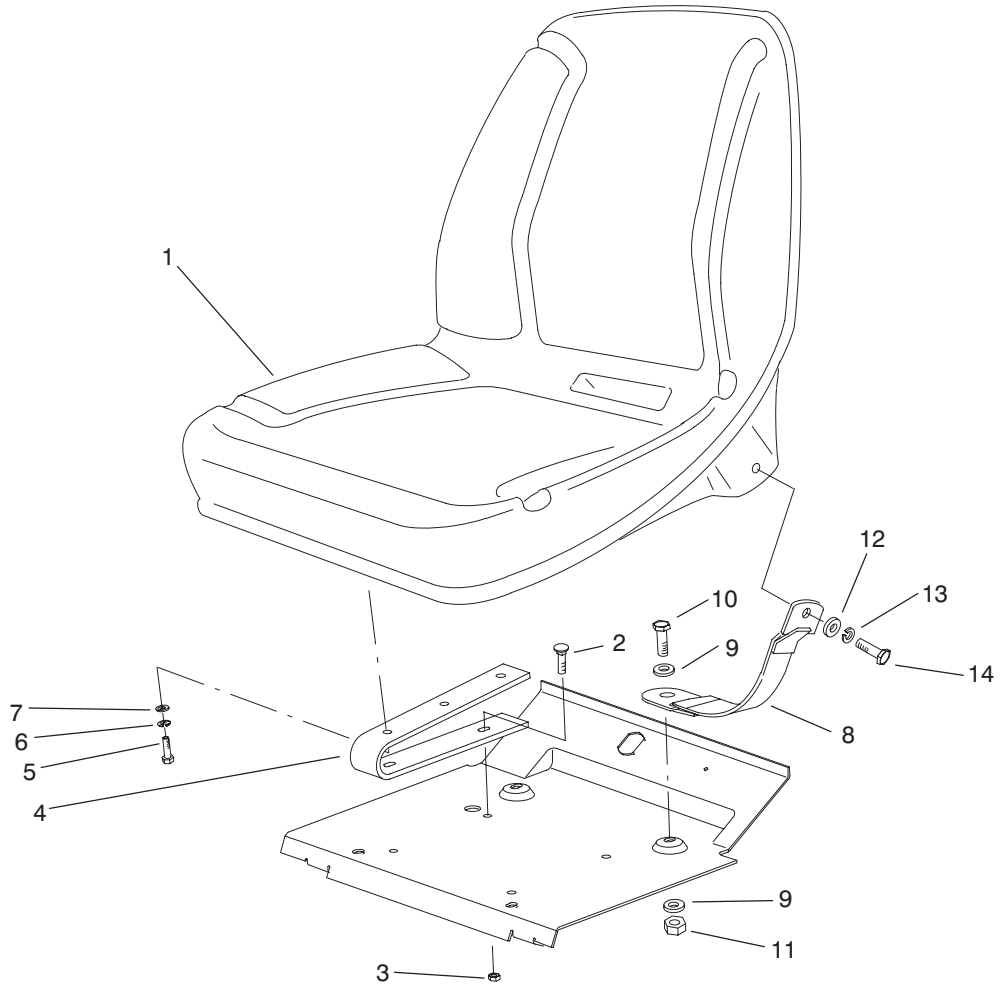
T−2244−1

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 Hex. Hd.	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 − Flange Lock	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 Hex. Hd.	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 − Flange Lock	2
34	323−9	Screw − Cap Hex. Hd.	2
35	3234−14	Screw − Hex. Flange Hd.	6
36	69−0770	Bracket − Armrest R.H.	1
*	69−0760	Bracket − Armrest L.H.	1
37	92−7301	Spacer	2

*Not Illustrated

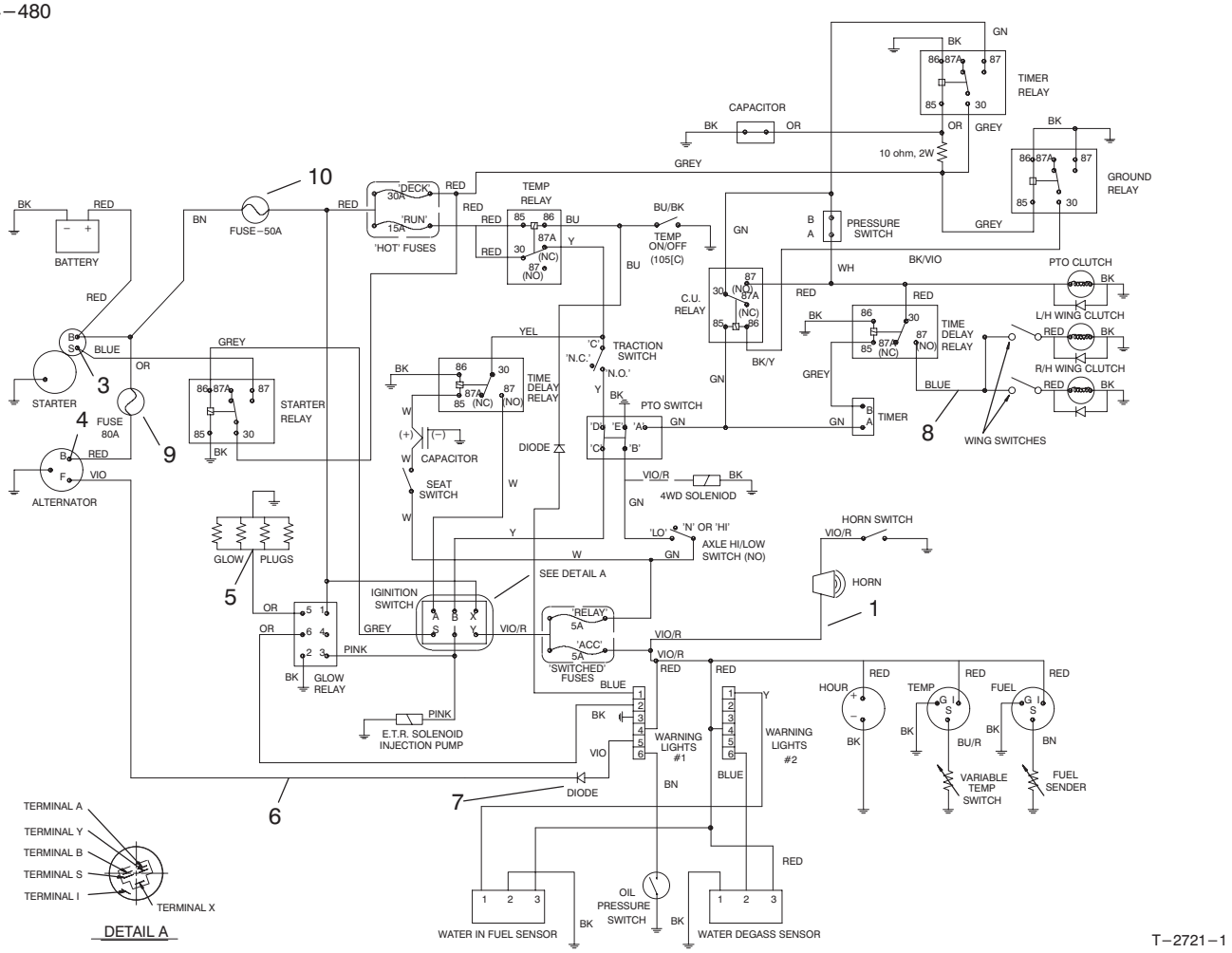


T−2245−1

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 Hex. Hd.	4
6	3253−4	Washer − Lock	4
7	3256−2	Washer	4

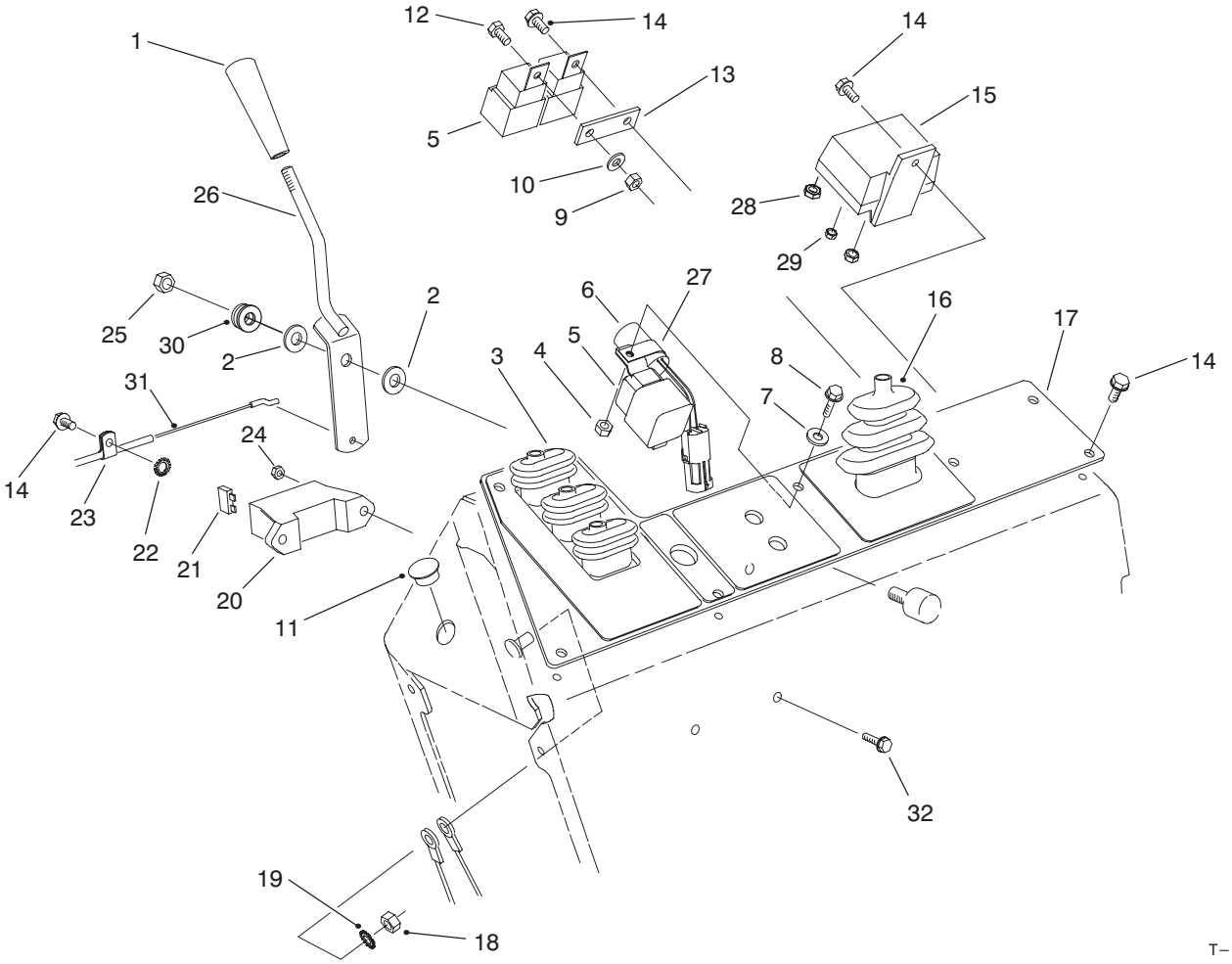
Ref. No.	Part No.	Description	No. Used
8	92−5521	Tether Strap	2
9	3256−24	Washer	4
10	323−6	Screw − Cap Hex. Hd.	2
11	3296−39	Nut − Lock	2
12	3256−5	Washer − Flat	2
13	3253−6	Washer − Lock	2
14	3212−5	Screw − Cap Hex. Hd.	2



ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	86−5470	Harness − Front	1
3	48−7930	Nut − Hex	1
4	48−7890	Nut − Hex.	1
5	48−7880	Nut − Hex.	2
6	94−5623	Harness − Wire, Main (Incl. Ref. #7)	1

Ref. No.	Part No.	Description	No. Used
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



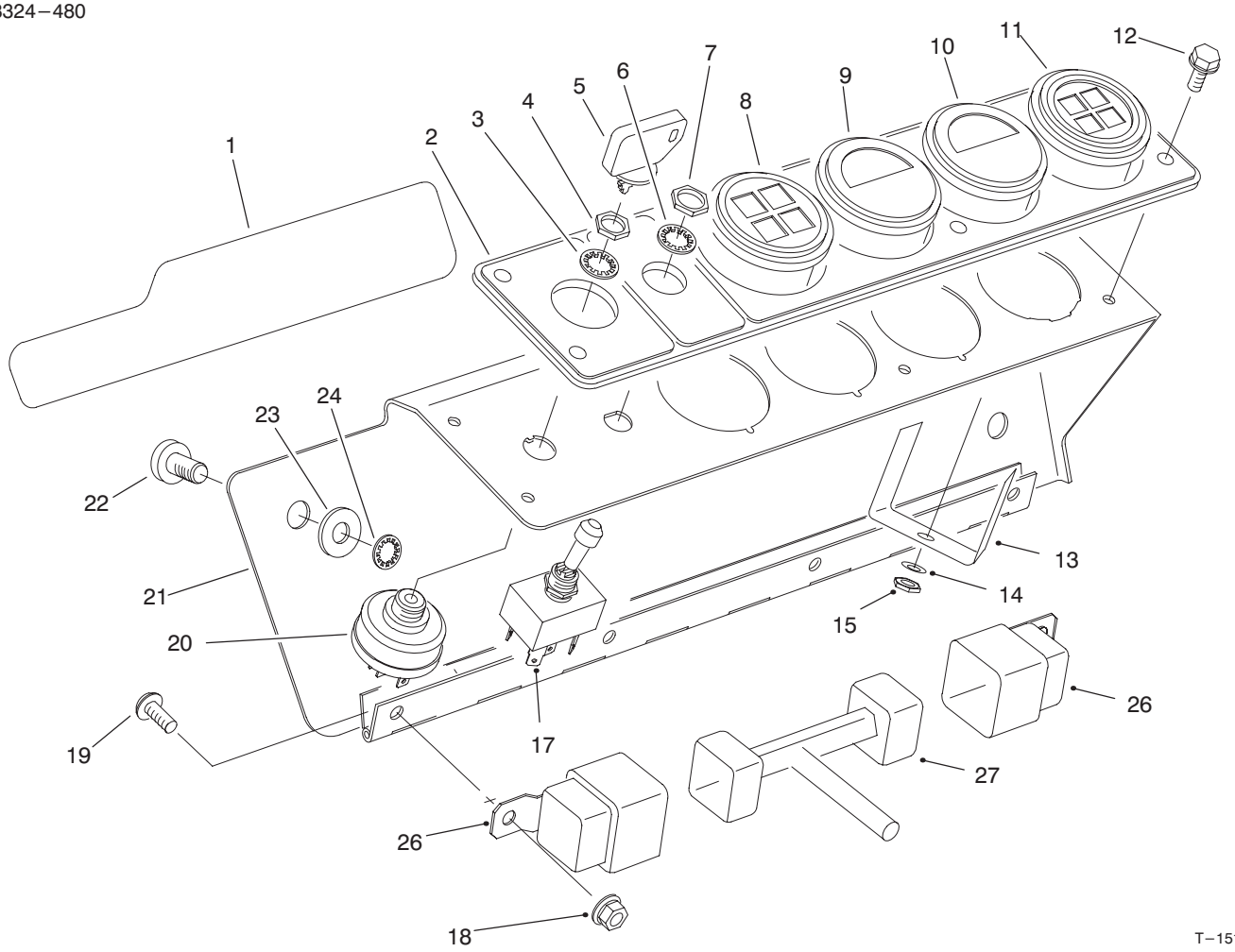
T−1492−1

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 − Lift Lever	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 − Hex. Washer Hd.	1
9	3296−42	Nut − Lock	2
10	3256−78	Washer − Flat	1
11	94−5627	Plug	1
12	321−2	Screw − Cap Hex. Hd.	1
13	77−3970	Spacer − Relay	1
14	32144−4	Screw − Hex. Washer Hd.	10
15	76−5260	Relay − Glow Plug	1
16	76−8440	Boot − Throttle	1
17	93−9422	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−HFH	2

*Not Illustrated

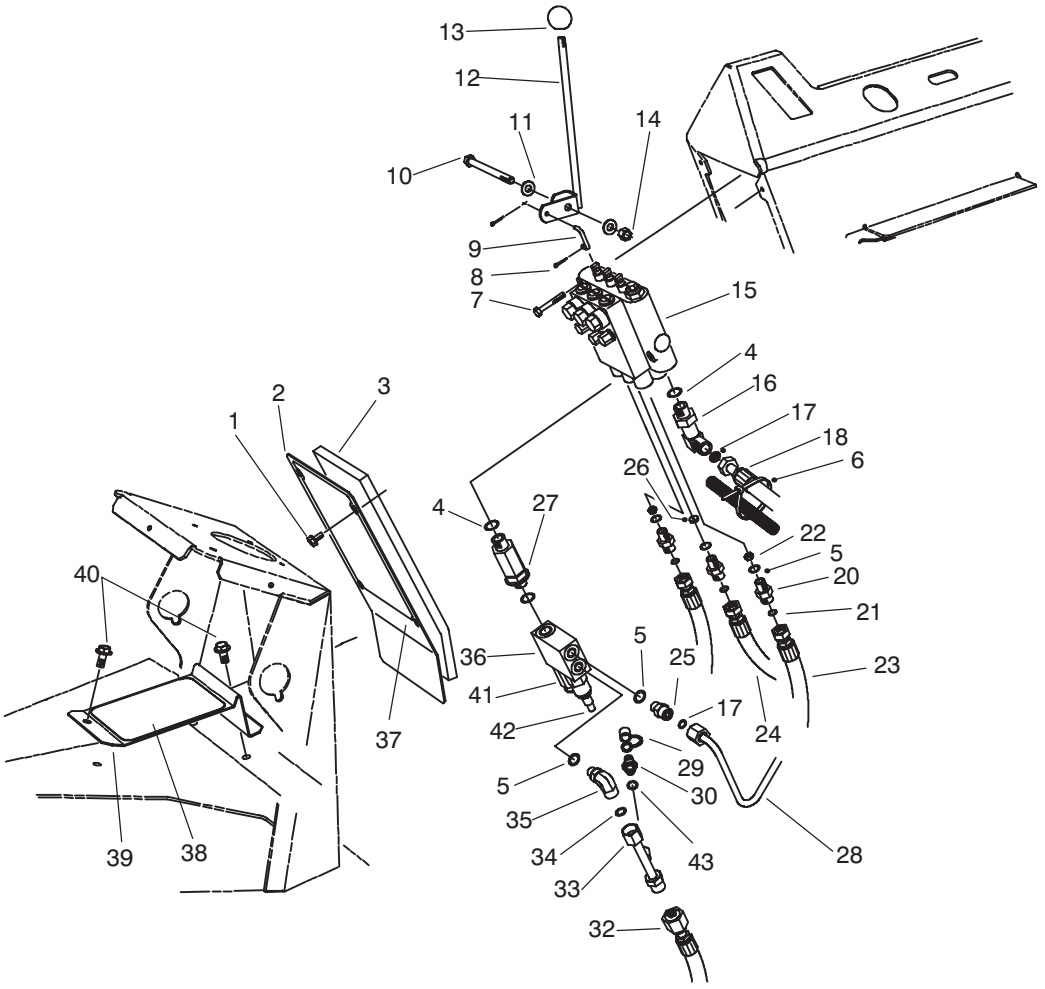


GAGE PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	92−6564	Decal − 4 Matic	1
2	93−9416	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 − Warning Bank (Ind. Ref. #13−16 & 25)	1
9	76−9060	Gauge − Temperature	1
10	66−2940	Gauge − Fuel	1
11	93−7484	Light − Warning Bank (Incl. Ref. #13−16 & 25)	1
12	32144−4	Screw − Hex. Washer Hd.	6
13		Clamp	2
14	3254−1	Washer − Lock	2

Ref. No.	Part No.	Description	No. Used
15	3217−26	Nut	2
*16	219−17	Bulb	4
17	85−4980	Switch − Toggle (Incl. Ref. #6−7)	1
18	32128−33	Nut − Flange Lock	4
19	3274−68	Screw − Socket Button Hd.	4
20	27−2360	Switch − Ignition (Incl. Ref. #3−4)	1
21	82-3750-03	Cover − Console	1
22	3250−36	Screw	2
23	3256−3	Washer	2
24	32151−72	Retainer − Push−On	2
*25	87−6270	Socket − Light	4
26	70−1480	Relay	2
27	94−5629	Harness − Wire	1

*Not Illustrated



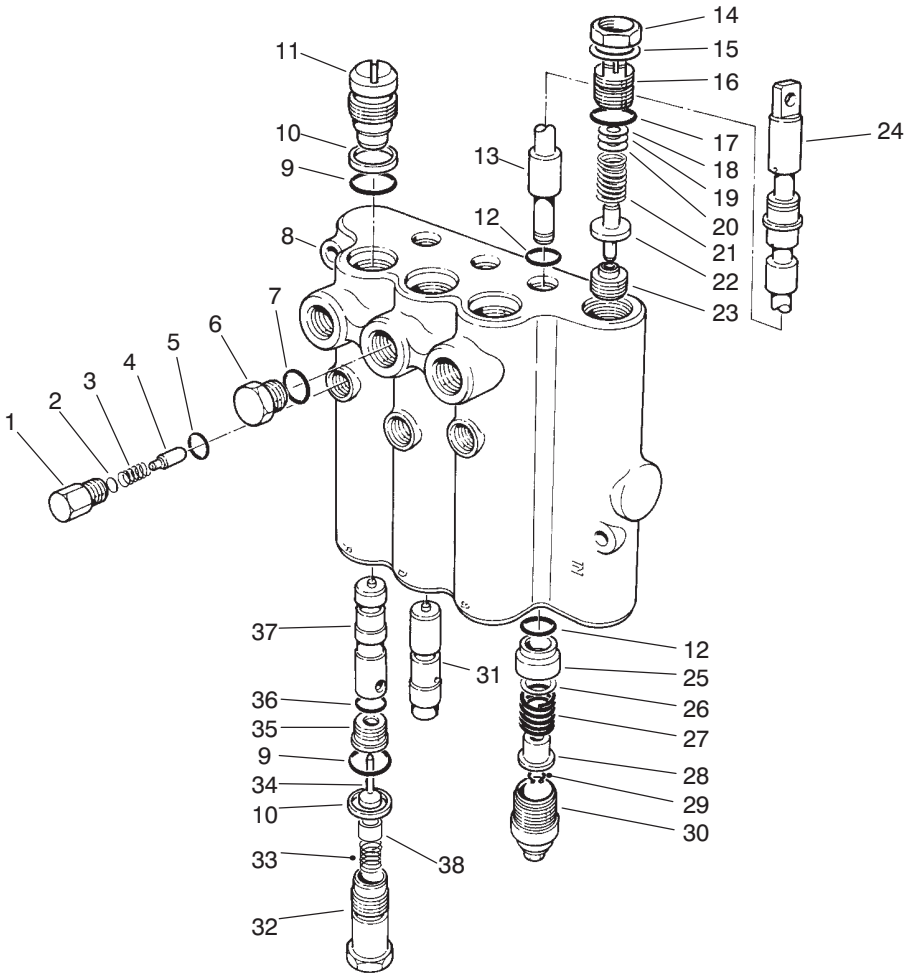
T−1504−1

LIFT VALVE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	46−6810	Assy. − Screw & Washer	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 Hex. Hd.	2
8	3272−1	Pin − Cotter	6
9	69−9140	Link − Lever, Valve	3
10	323−17	Screw − Cap Hex. Hd.	1
11	3256−24	Washer − Flat	2
12	74−6060	Lever − Valve, R.H.	1
*	74−6050	Lever − Valve, Center	1
*	69−7010	Lever − Valve, L.H.	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	Assembly − Hose	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	Assembly − Hose	2

Ref. No.	Part No.	Description	No. Used
24	86−3180	Assembly − Hose	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	Assy. Tube, Relief Valve	1
29	353−947	Cap − Fitting	1
30	354−77	Fitting − Test Port (Incl. Ref. #43)	1
32	86−3230	Assembly − Hose	1
33	86−5760	Assy. − Tube, Deck Return	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	93−7242	Decal − Service	1
38	76−7040	Pad − Foot	1
39	82-5300-03	Support − Heel	1
40	32144−11	Screw − Hex. Washer Hd.	2
41	88−1520	Cartridge − Relief	1
42	88−1530	Cartridge − Relief	1
43	237−78	O−Ring	1
*	75−2080	Seal Kit San Diego (for Ref. #41−42)	1

*Not Illustrated



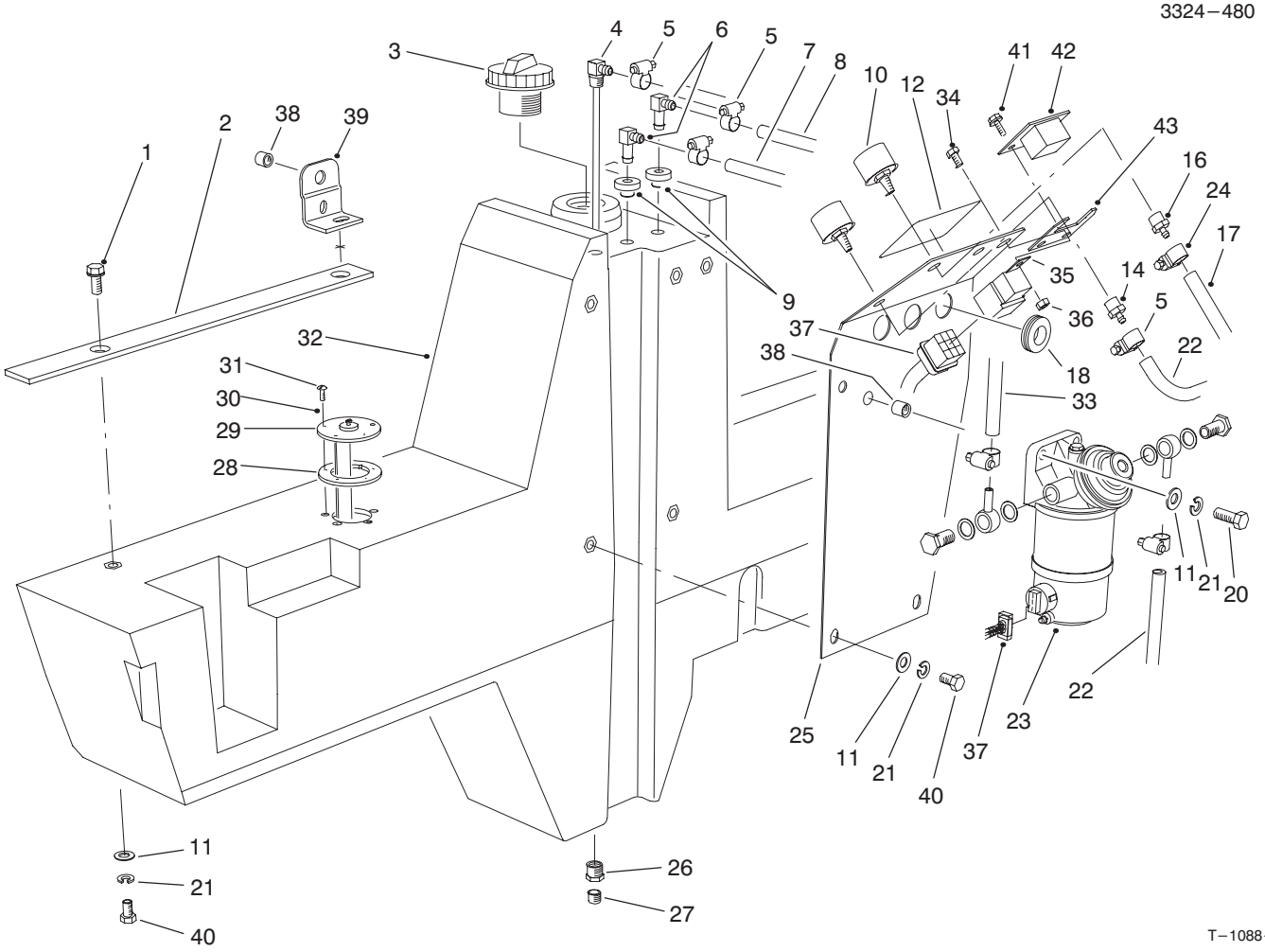
T−0379−1

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 Assy. (Incl. Ref. #36)	3
36	58−6340	Seal − O−Ring	3
37	84−6420	Plunger	2
38	92−7779	Eyelet	3
*	60−3780	Seal Kit (Incl. Ref. #5, 7, 9, 10, 12, 12, 17, 24, 29, 34, & 36)	1

*Not Illustrated
†Not Serviceable Separately

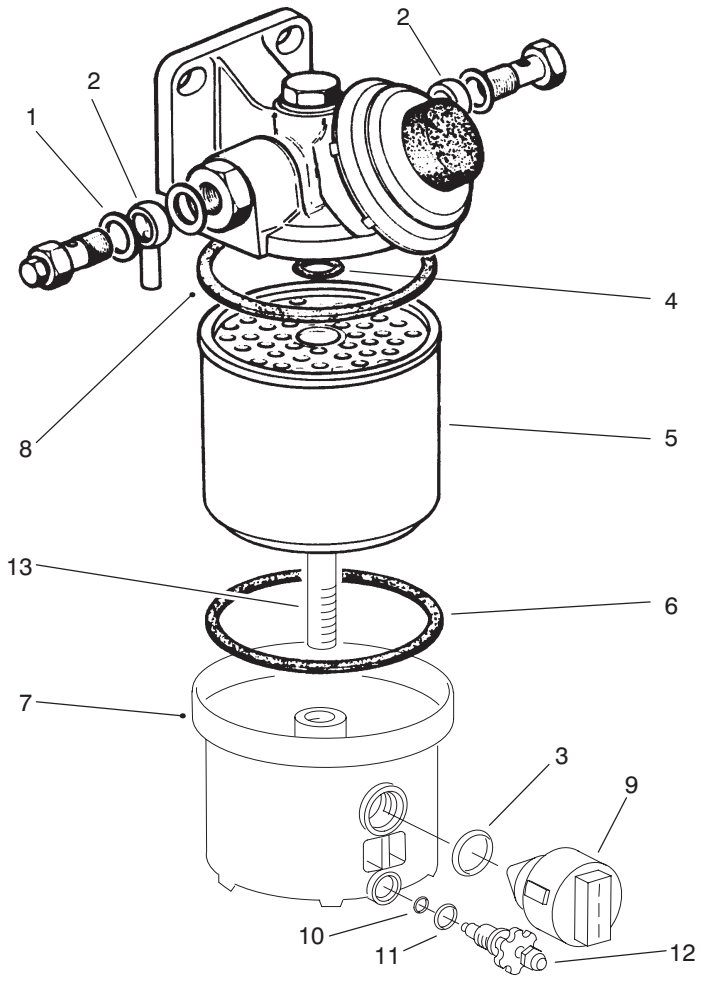


T−1088−1

FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3234−12	Screw − Hex. Washer Hd.	2
2	76−9790	Foam − Fuel Tank	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	93−9420	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 Hex. Hd.	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 − Reducing Bushing	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 Hd.	5
32	74−5580	Tank − Fuel (Incl. Ref. #26 & 27)	1
34	321−3	Screw − Cap Hex. Hd.	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 Hex. Hd.	7
41	32144−18	Screw − Hex. Washer Hd.	2
42	75−6820	Hour Meter	1
43	94-5614-03	Bracket − Hour Meter	1



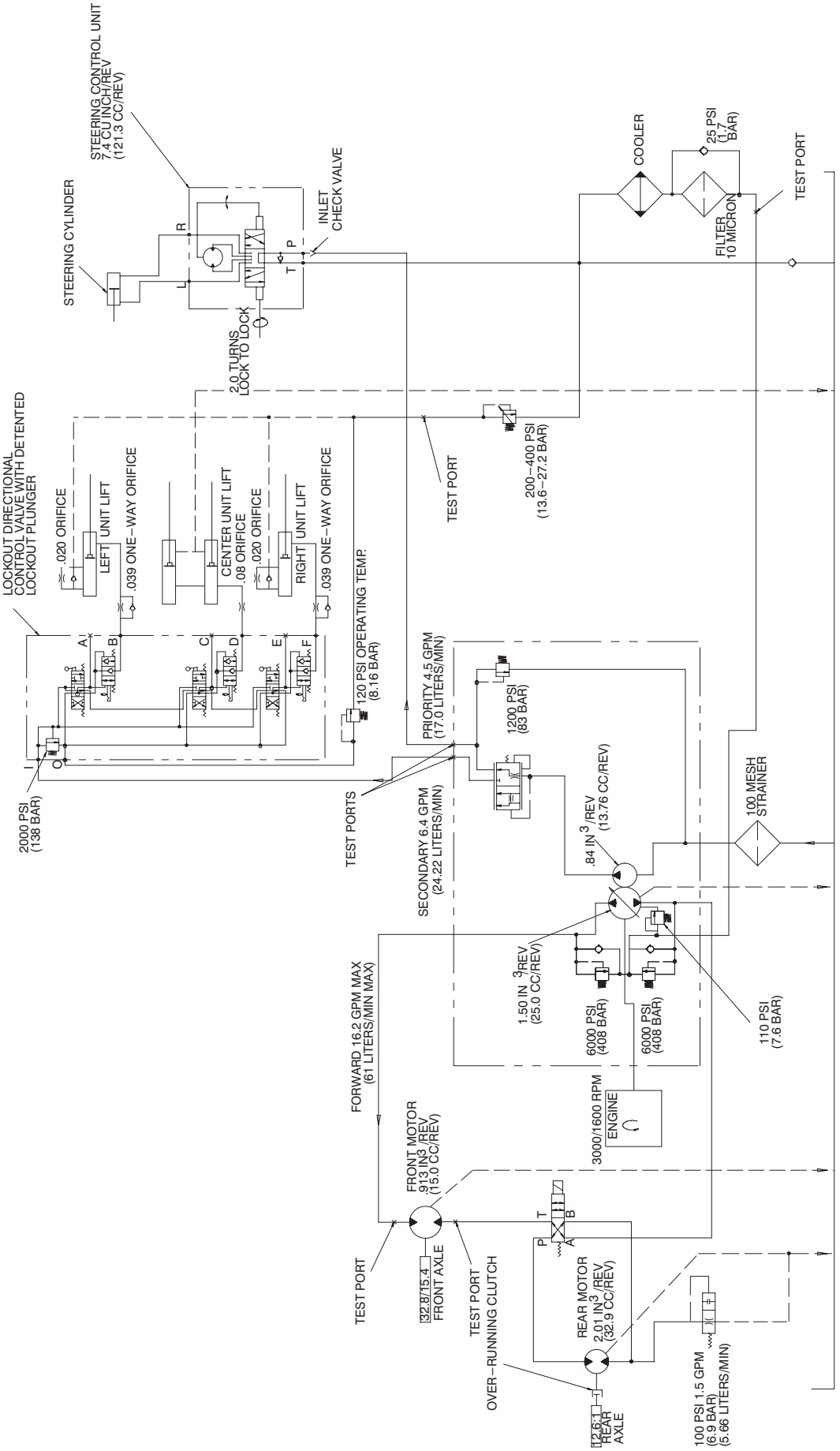
T−0966−2

FUEL FILTER ASSEMBLY NO. 76−5300

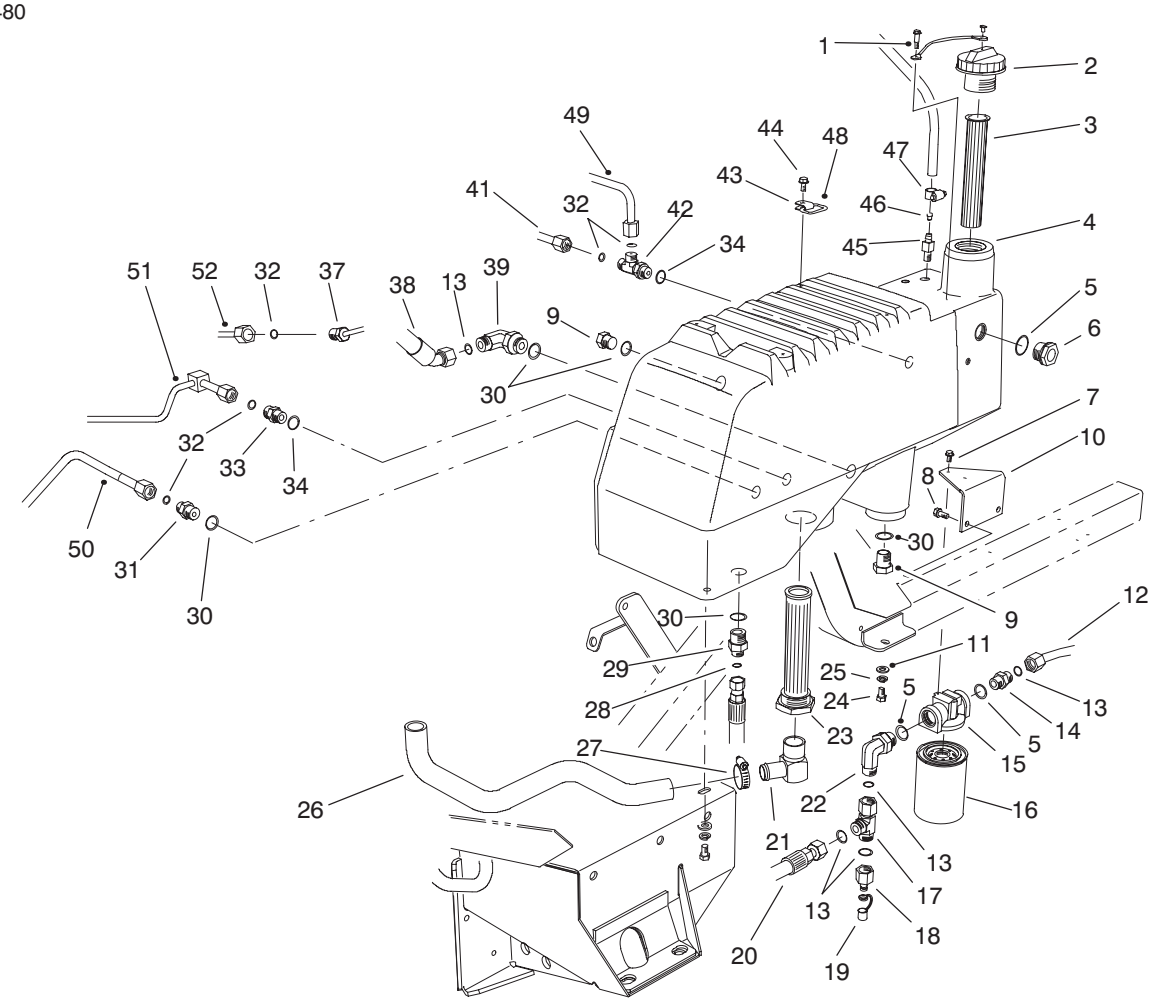
Ref. No.	Part No.	Description	No. Used
1	76−5180	Washer − Copper	4
2	76−5190	Fitting − Adjustable	2
3	94−8025	O−Ring	1
4		Seal − O−Ring	1
5	76−5220	Element − Filter (Incl. Ref. #4, 6 & 8)	1
6		Seal − Gasket	1
7		Cap − Fuel Filter	1

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



T–1496–1

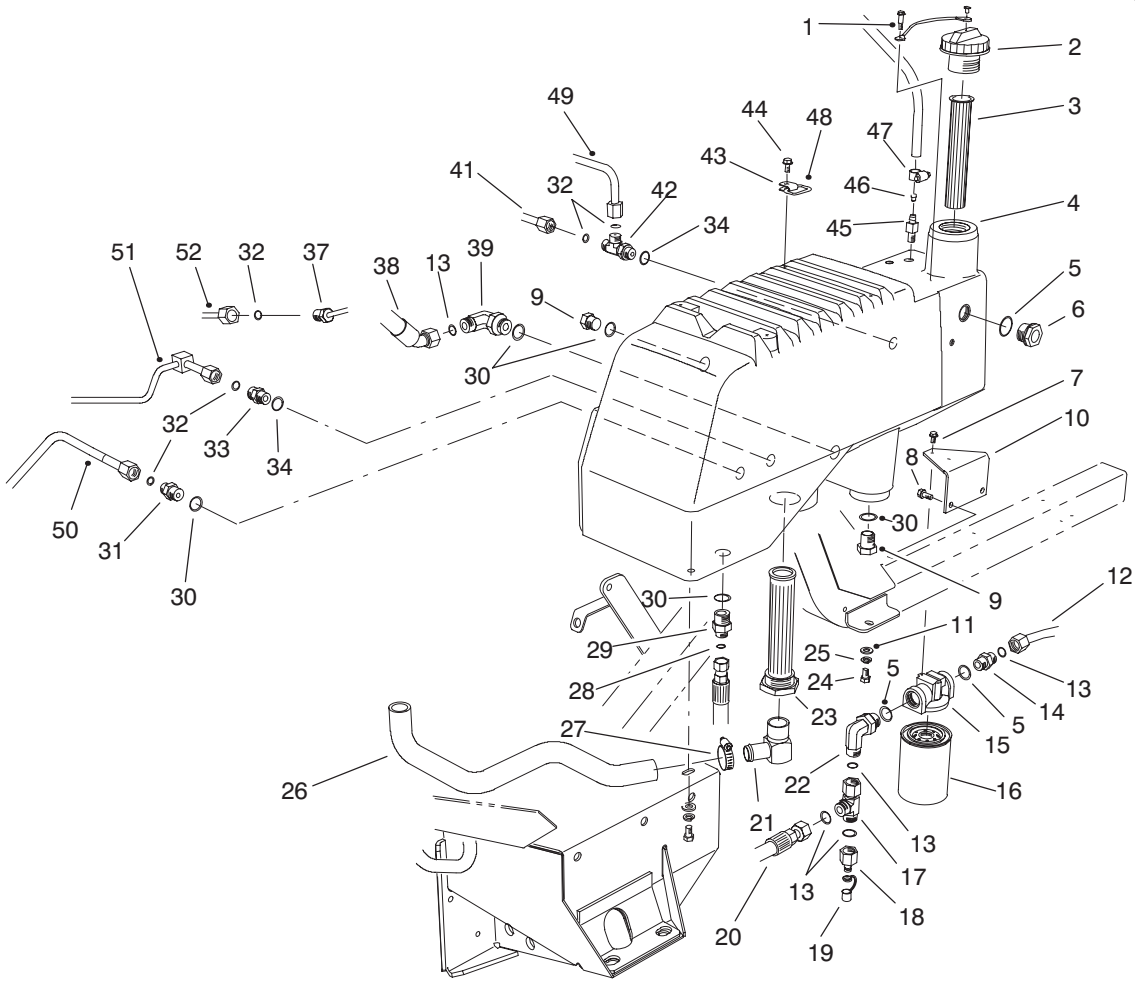


T−2704−1

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 − Hex. Washer Hd.	2
8	32144−11	Screw − Hex. Washer Hd.	2
9	353−551	Plug (Incl. Ref. #30)	2
10	92-5840-03	Bracket − Mount, Filter	1
11	240−11	Grommet	3
12	74−6400	Assembly − Tube, Filter Line	1
13	237−65	O−Ring	5
14	340−8	Fitting − Adapter (Incl. Ref. #5 & 13)	1
15	92−5821	Assembly − Head, Filter	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	Assembly − Hose	1
21	354−87	Fitting − Hydraulic 90˚	1

Ref. No.	Part No.	Description	No. Used
22	340−139	Fitting − Hydraulic (Incl. Ref. #5 & 13)	1
23	75−0550	Strainer − Tank	1
24	323−5	Screw − Cap Hex. Hd.	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	2
37	94−8298	Hydraulic Tube Assembly	1
38	86−3150	Assembly − Hose	1
39	340−17	Fitting − Hydraulic 90˚ (Incl. Ref. #13 & 30)	1
41	74−6230	Assy. − Tube, Traction	1
42	340−10	Fitting − Tee (Incl. Ref. #32 & 34)	1
43	76−9950	Bracket − Ring	4
44	32144−4	Screw − Thread Forming	4

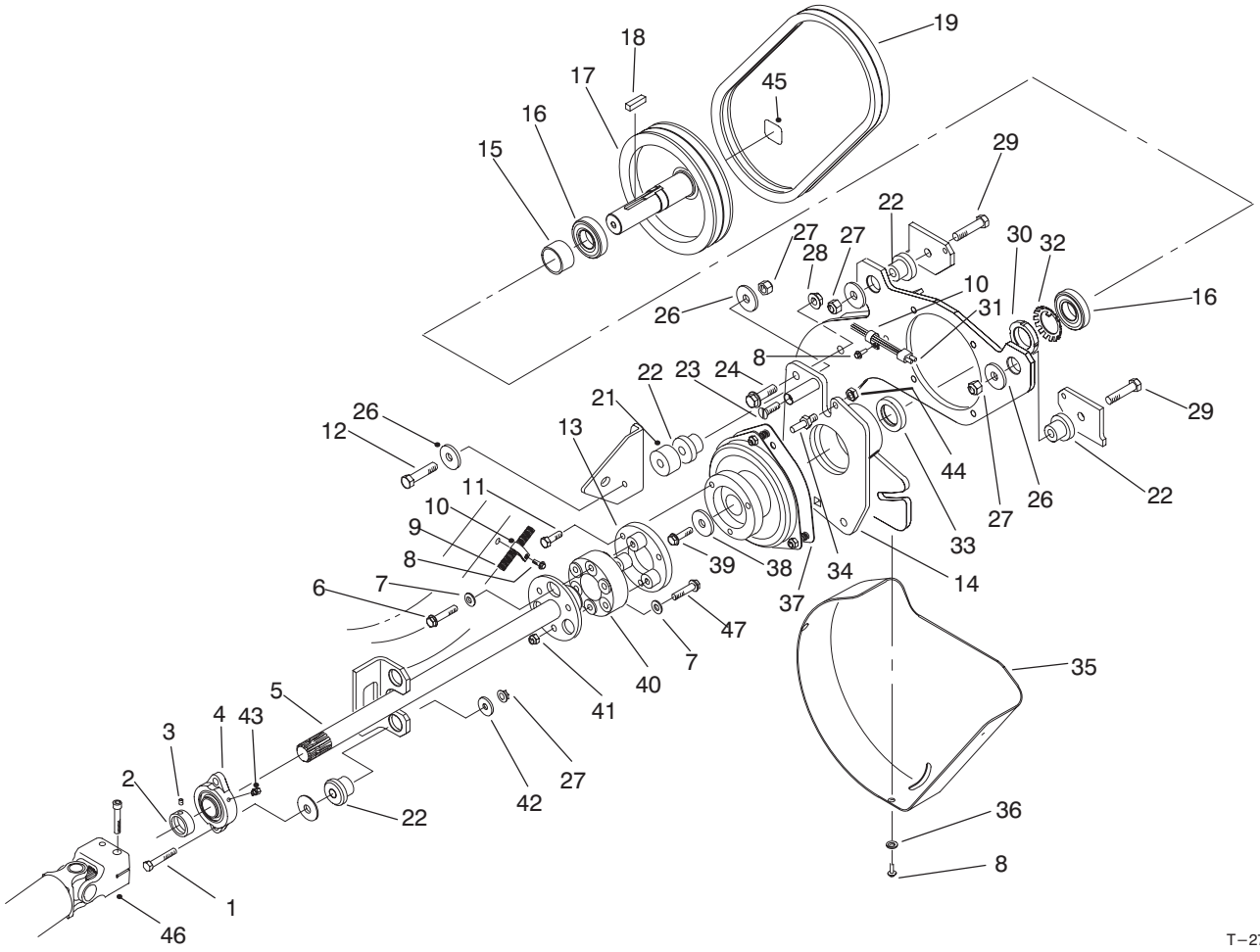


T−2704−1

HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
45	354−103	Male Hose Barb	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	Assembly − Tube	1
50	86−5750	Tube Assembly	1
51	94−8299	Tube Assembly − Steering	1
52	86−5770	Tube Assembly − Relief	1

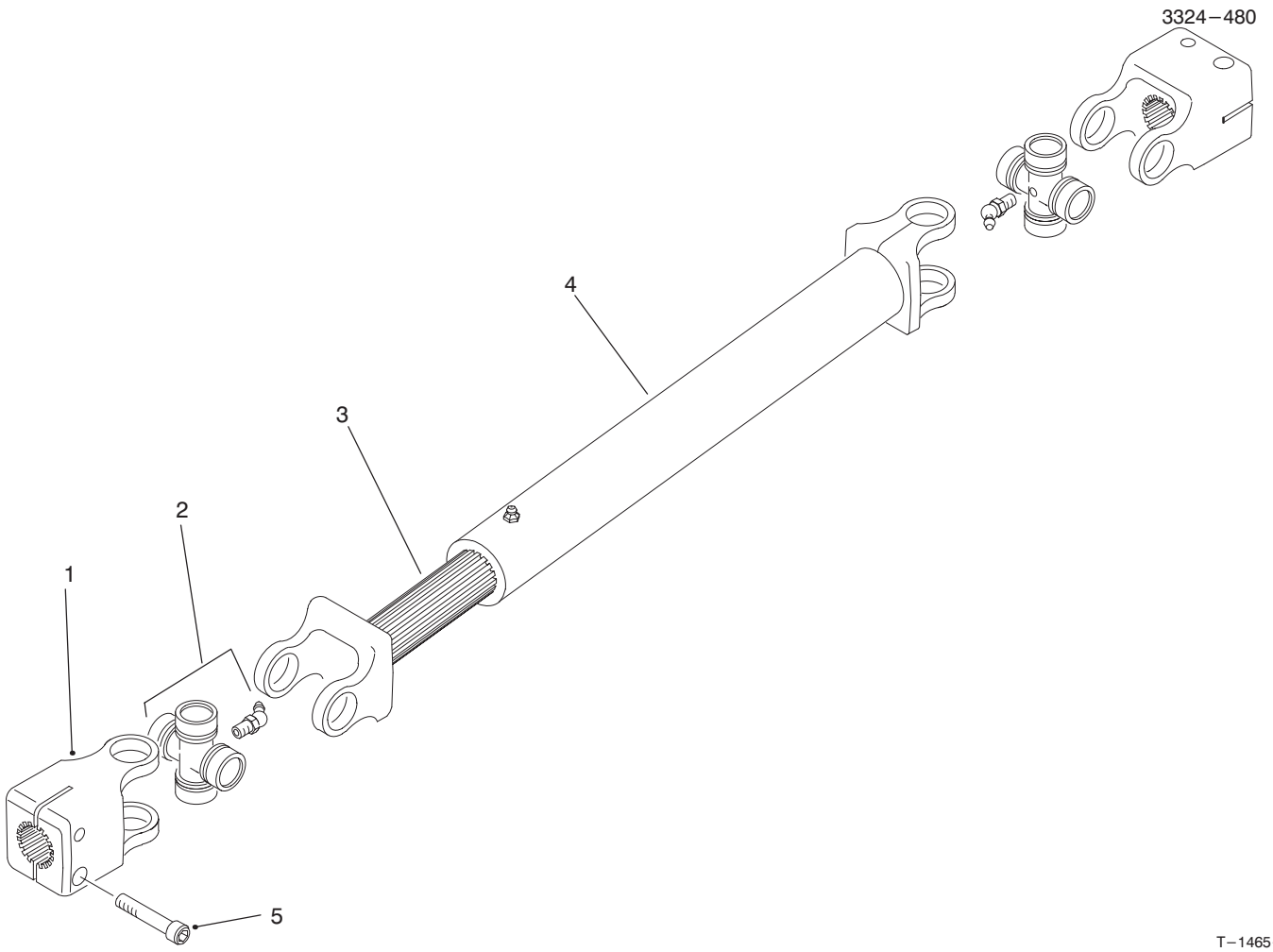


T−2706−1

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	6
8	32144−11	Screw − Hex. Washer Hd.	5
9	95−4375	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	84−0180	Pulley − Lower	1
18	84−1540	Key	1
19	88−1170	Belt − Matched Set	1
21	84−1570	Spacer	1
22	84−1550	Mount − Rubber	5
23	88−1510	Screw − Special	1

Ref. No.	Part No.	Description	No. Used
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	93−9356	Decal − Warning	1
46	86−1730	Drive Shaft	1
47	323−47	Screw−HH	3

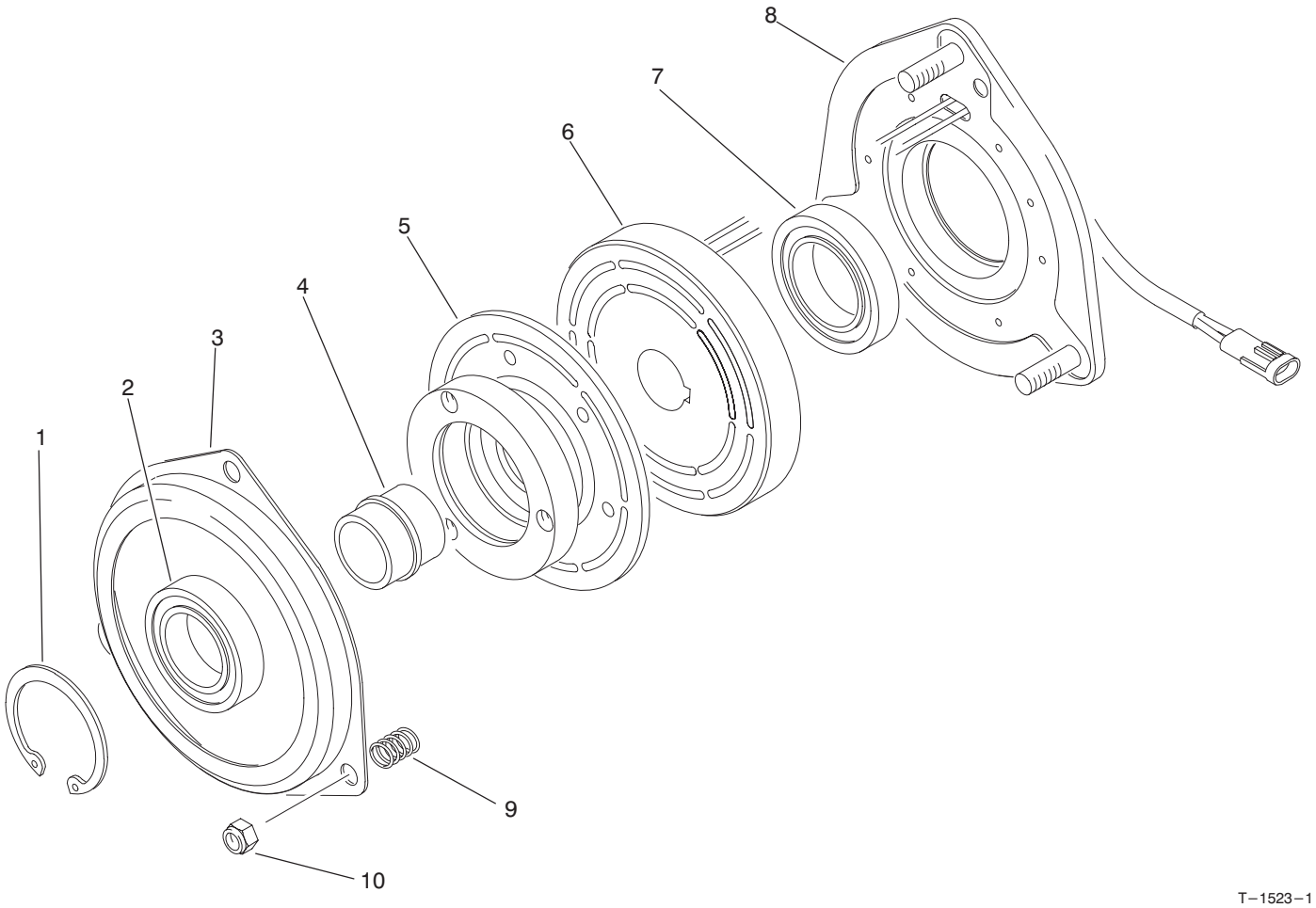


T–1465–1

DRIVE SHAFT ASSEMBLY 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 – Slip Yoke	1

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

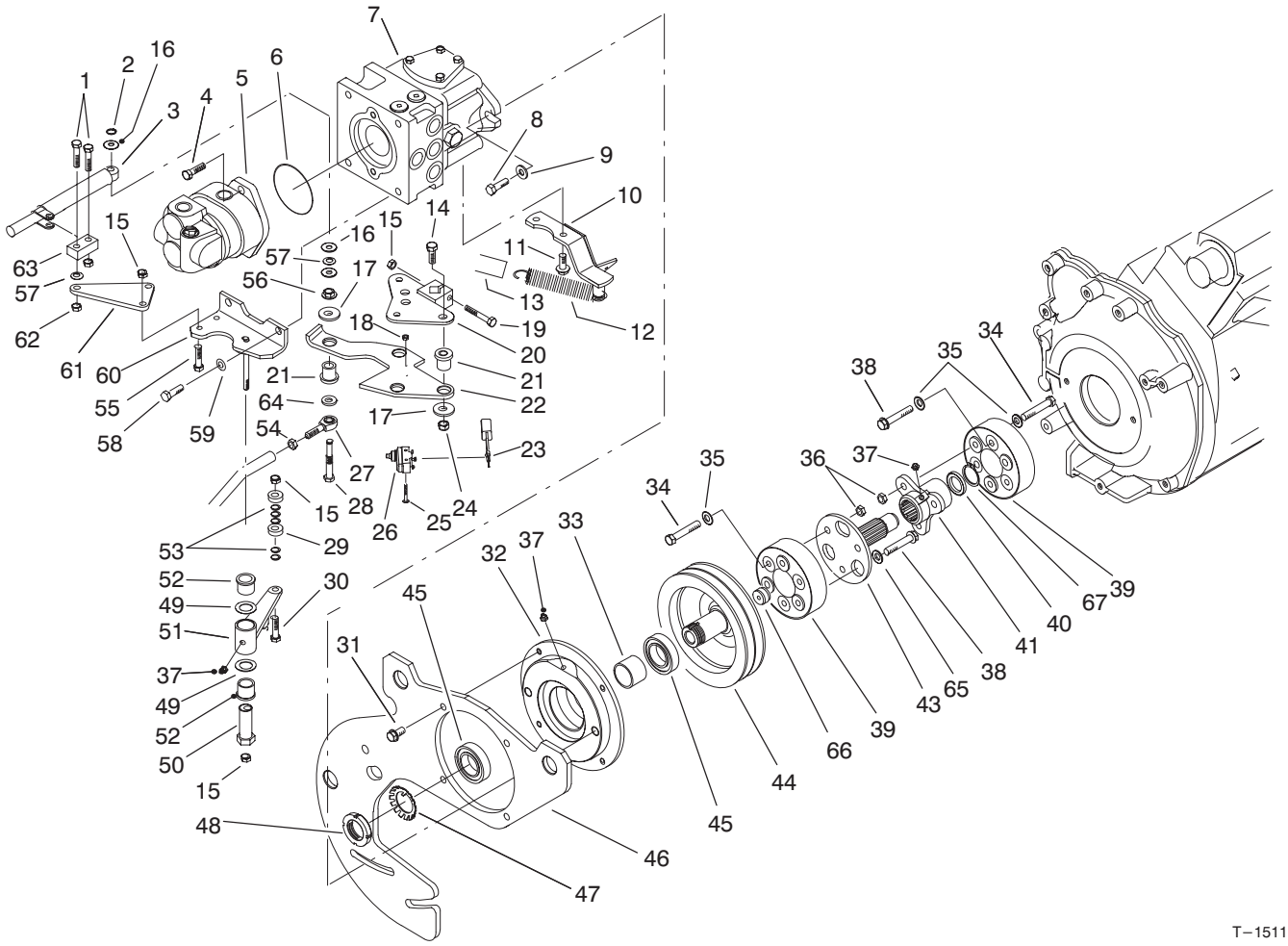


T–1523–1

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	Assembly – Armature (Incl. Ref. #1, 2 & 4)	1

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



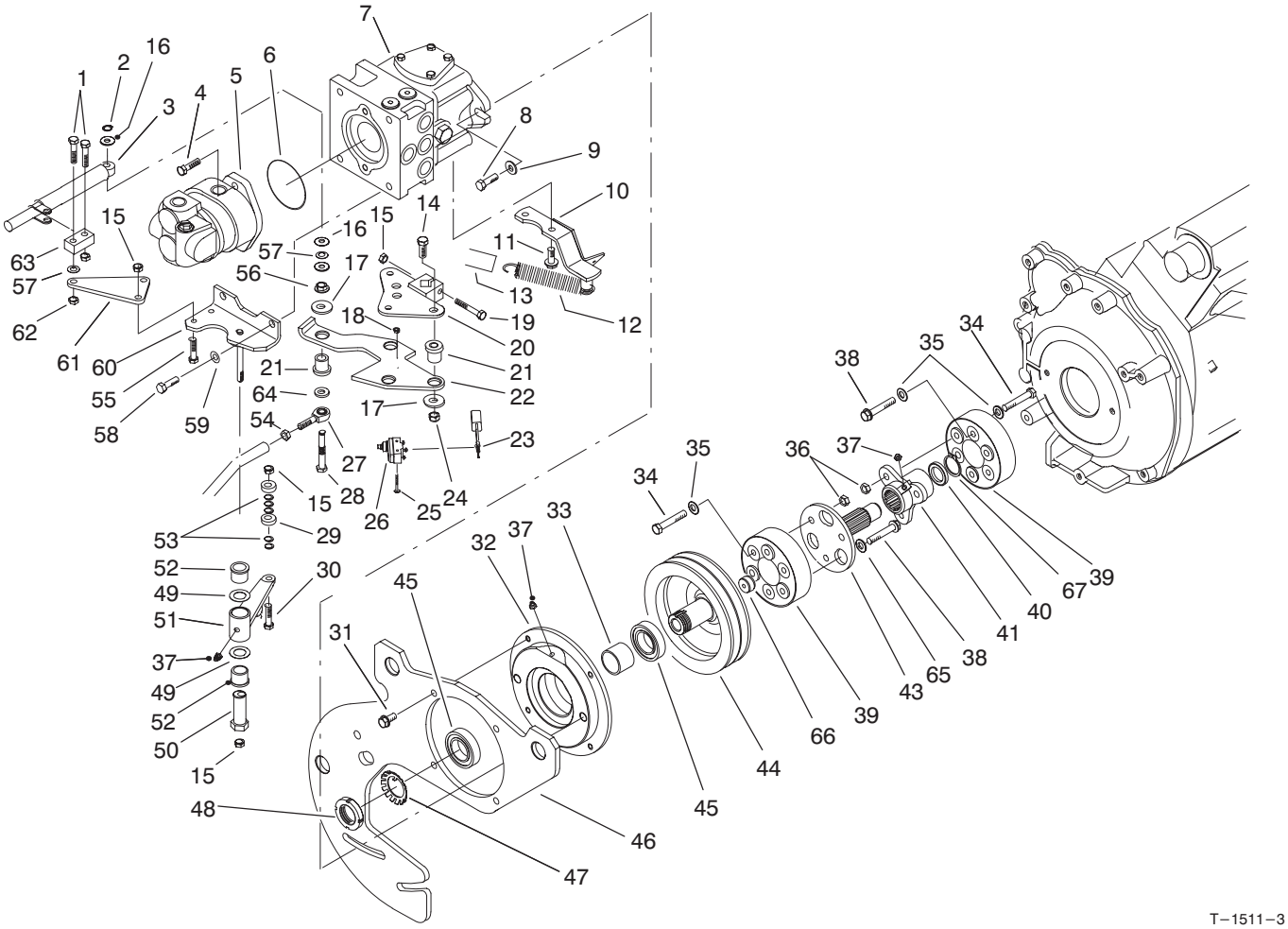
T−1511−3

HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322−6	Screw − Cap Hex. Hd.	2
2	32151−73	Ring − Clip	1
3	76−8870	Assy. − Damper, Lever	1
4	323−7	Screw − Cap Hex. Hd.	2
5	94−8297	Assy. − Pump, Gear	1
6	237−161	O−Ring	1
7	86−5590	Assembly − Pump	1
8	3213−2	Screw − Hex. Hd. Flange	2
9	3256−26	Washer − Flat	2
10	84-1380-03	Anchor − Spring	1
11	32144−26	Screw − Hex. Washer Hd.	2
12	76-9430-03	Spring − Extension	1
13	84−1480	Hose − Dampener	1
14	323−29	Screw − Cap Hex. Hd.	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 Hex. Hd.	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 − Machine Rd. Hd.	2
26	29−6163	Switch − Micro	1

Ref. No.	Part No.	Description	No. Used
27	2411−36	Rod End	1
28	82−5280	Shaft − Pivot	1
29	251−259	Bearing − Ball	2
30	322−7	Screw − Cap Hex. Hd.	1
31	3234−1	Screw − Hex. Flange Hd.	4
32	84-0750-03	Housing − Bearing	1
33	86−5940	Spacer − Bearing	1
34	323−47	Screw − Cap Hex. Hd.	6
35	3256−24	Washer − Flat	9
36	3296−39	Nut − Lock	6
37	302−5	Fitting − Grease	3
38	100-2592	Screw − Hex. Flange Hd.	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 Assy. (Incl. Ref. #37 & 52)	1
52	256−113	Bushing	2

3324−480

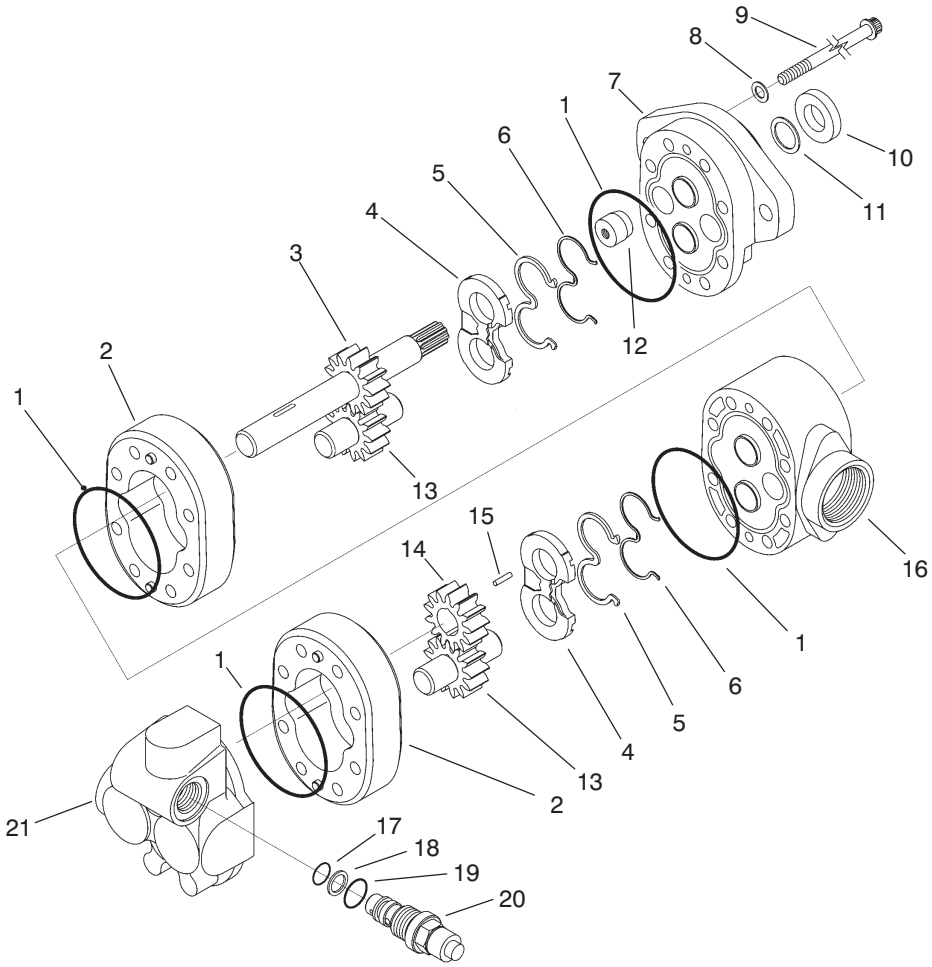


T−1511−3

HYDRAULIC PUMP INSTALLATION ASSEMBLY (Cont.)

Ref. No.	Part No.	Description	No. Used
53	75−5470	Washer	5
54	3220−3	Nut − Jam	1
55	322−5	Screw − Cap Hex. Hd.	2
56	3290−357	Nut − Flange Head	1
57	3290−477	Washer − Curved	2
58	324−4	Screw − Cap Hex. Hd.	2
59	3253−6	Washer − Lock	2
60	95-4352-03	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



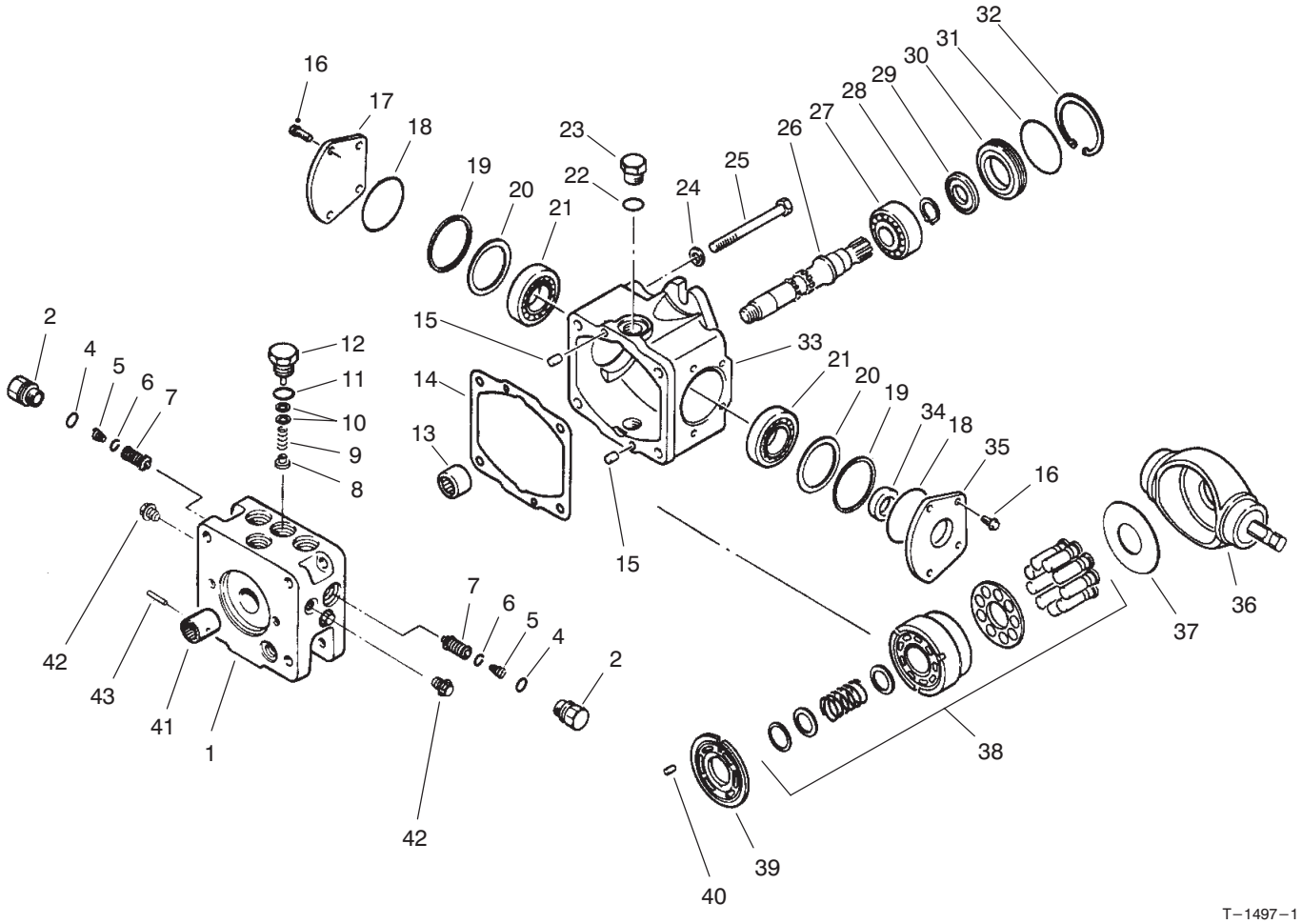
T−2619−1

GEAR PUMP ASSEMBLY NO. 94−8297

Ref. No.	Part No.	Description	No. Used
†1	56−6710	O−Ring	4
2	95−4364	Asm. − Body	2
3	95−4365	Asm. − Gear, Drive	1
4	95−4368	Plate − Wear	2
5	95−4367	Gasket − Backup	2
6	95−4369	Seal	2
7	95−4362	Asm. − Frontplate	1
8	94−8160	Washer	1
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	Asm. − Gear, Idler	2
14	95−4373	Gear	1
15	95−4372	Key	1
16	95−4371	Plate − Adapter	1
17		O−Ring	1
18		Washer	1
19		O−Ring	1
20		Valve	1
21	95−4363	Asm. − Backplate	1
*	95−4374	Asm. − Valve, Relief (Incl. Ref. #17−20)	1

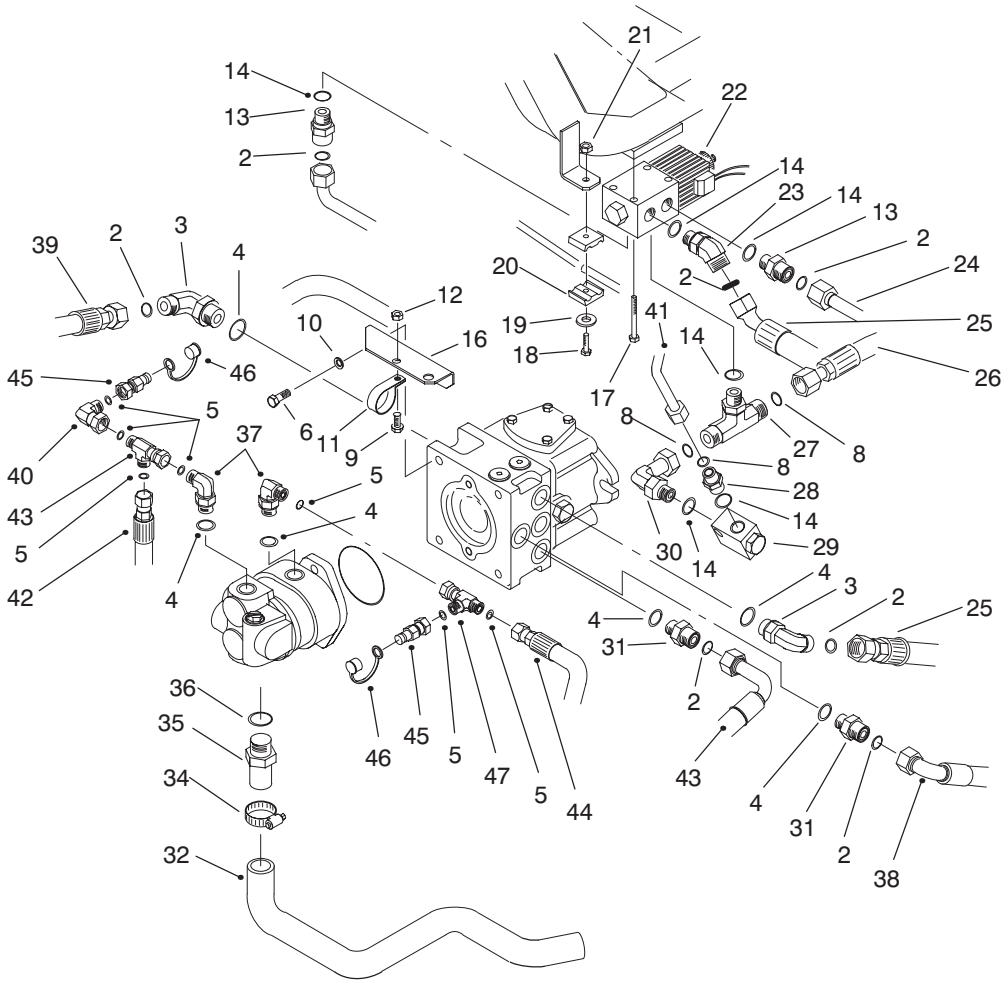
*Not Illustrated
†Not Serviced Separately



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	Assy. − Charge Relief Plug	1
13	75−0500	Bearing − Needle	1
14	84−0210	Gasket − End Cap	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 − Trunnion Kit	4
21	84−0260	Bearing − Roller	4
22	353−551	Plug Assembly (Incl. Ref. #23)	3

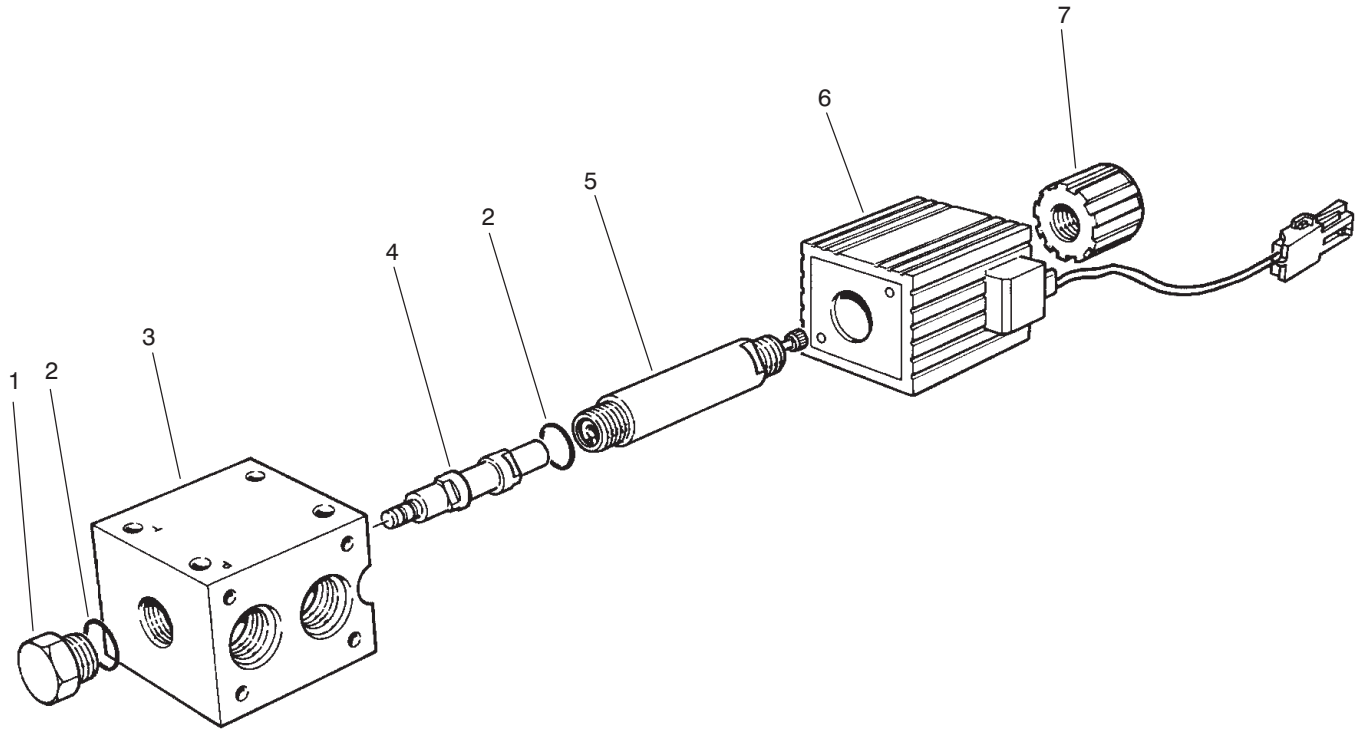
Ref. No.	Part No.	Description	No. Used
23	237−80	O−Ring	3
24	84−0360	Washer	8
25	84−0330	Screw − Cap Hex. Hd.	8
26	84−0300	Shaft − Pump	1
27	84−0310	Bearing − Ball	1
28	84−0320	Ring − Retaining	1
29	84−0400	Seal − Lip	1
30	84−0410	Carrier − Seal	1
31	28−3520	O−Ring	1
32	84−0380	Ring − Retaining Internal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



T−2720−1

HYDRAULIC PUMP FITTINGS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
2	237−65	O−Ring	7
3	340−17	Fitting − Hydraulic 90˚ (Incl. Ref. #2 & 4)	1
4	237−80	O−Ring	5
5	237−22	O−Ring	7
6	324−4	Screw − Cap Hex. Hd.	2
8	237−30	O−Ring	3
9	322−2	Screw − Cap Hex. Hd.	1
10	3253−6	Washer − Lock	2
11	2412−104	Clamp − R	1
12	32128−20	Nut − Lock, Flange Head	1
13	340−155	Fitting − Hydraulic 90˚ (Incl. Ref. #2 & 14)	2
14	237−79	O−Ring	6
16	88-1290-03	Bracket − Rod, Seat	1
17	321−15	Screw − Cap Hex. Hd.	2
18	322−6	Screw − Cap Hex. Hd.	1
19	3256−71	Washer − Flat	1
20	56−7973	Clamp	2
21	3296−47	Nut − Lock	1
22	76−9970	Valve − 4 WD	1
23	340−55	Fitting − Hydraulic 45˚ (Incl. Ref. #2 & 14)	1
24	86−2770	Assembly − Tube, Traction	1
25	92−5828	Assembly − Hose	1
26	86−2710	Assembly − Hose, Rear	1
27	340−157	Fitting − Tee (Incl. Ref. #8 & 14)	1
28	340−4	Fitting − Hydraulic (Incl. Ref. #8 & 14)	1
29	84−0720	Valve − Velocity	1
30	340−165	Fitting − Hydraulic (Incl. Ref. #14)	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
37	340−18	Fitting − Hydraulic 90˚ (Incl. Ref. #4 & 5)	2
38	86−5500	Assembly − Hose	1
39	86−3150	Assembly − Hose	1
40	340−159	Fitting − Hydraulic 90˚ (Incl. Ref. #5)	1
41	86−5810	Assembly − Tube	1
42	86−5570	Hose Assembly	1
43	92−5830	Assembly − Hose	1
44	95−4354	Hose Assembly	1
45	86−5480	Fitting − Diagnostic	2
46	354−79	Cap − Fitting	2
47	340−115	Fitting − Hydraulic, Tee (Incl. Ref. #5)	2

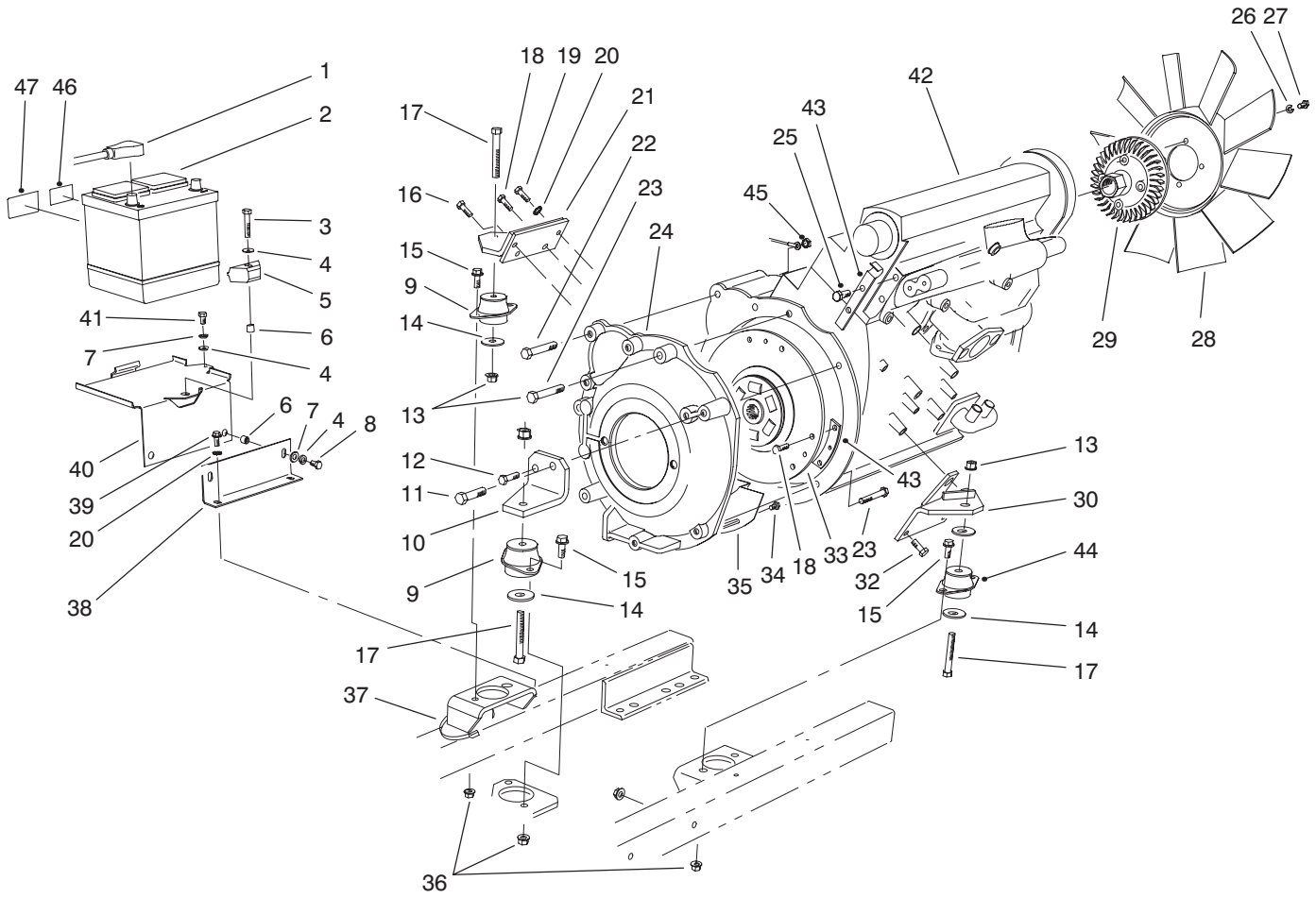


T−1126

SOLENOID VALVE ASSEMBLY NO. 76−9970

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

Ref. No.	Part No.	Description	No. Used
5		Tube Assembly (Incl. Ref. #2)	1
6	218−591	Coil Assembly	1
7	218−592	Nut − Coil	1



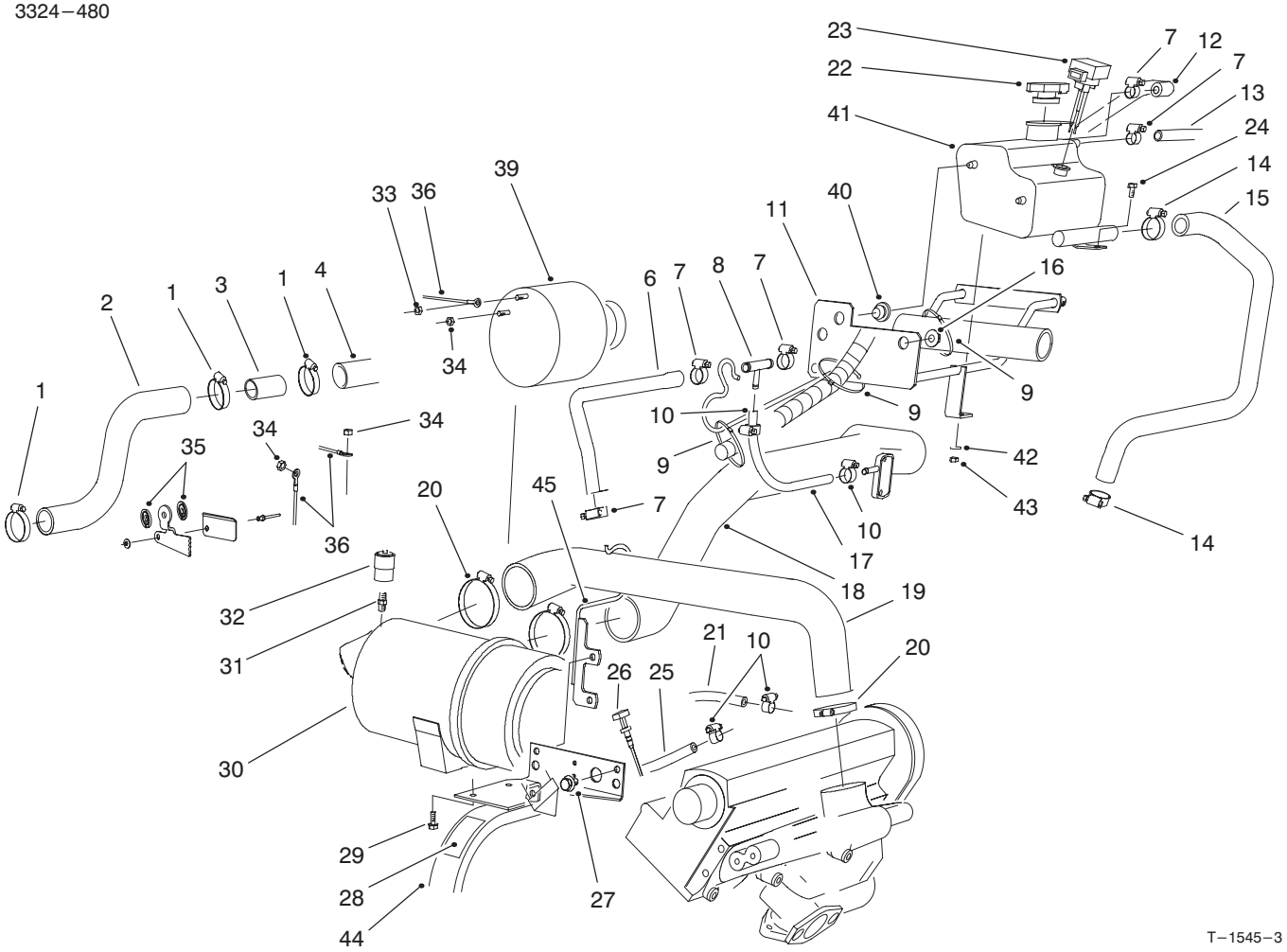
T−1513−3

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 Hex. Hd.	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 Hex. Hd.	2
9	53−9681	Mount − Rubber, Engine	2
10	74-5470-03	Mount − Engine	1
11	48−7840	Screw − Cap Hex. Hd.	1
12	48−9470	Screw − Cap Hex. Hd.	1
13	32128−37	Nut − Lock, Flange Hd.	3
14	87−5100	Washer − Flat	4
15	3234−11	Screw	6
16	57−6380	Screw − Cap Hex. Hd.	1
17	324−12	Screw − Cap Hex. Hd.	3
18	42−9230	Screw − Cap Hex. Hd.	8
19	33114−030	Screw − Cap Hex. Hd.	1
20	3255−8	Washer − Lock, Ext. Tooth	2
21	76-4120-03	Mount − Engine	1
22	48−7810	Screw − Cap Hex. Hd.	3
23	48−7570	Screw − Cap Hex. Hd.	3
24	84-0760-03	Adapter − Pump to Engine	1

Ref. No.	Part No.	Description	No. Used
25	33114-016	Screw − Cap Hex. Hd.	2
26	3253−4	Washer − Lock	4
27	322−3	Screw − Cap Hex. Hd.	4
28	74−3650	Fan	1
29	74−5520	Clutch − Fan	1
30	76-4220-03	Mount − Engine	1
31	53−9682	Mount − Rubber, Eng	1
32	48−7780	Screw − Cap Hex. Hd.	3
33	84-1440-03	Plate − Adapter	1
34	48−7610	Screw − Cap Hex. Hd.	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 − Hex. Washer Hd.	2
40	14−0949	Battery Base Assembly (Incl. Ref. #6)	1
41	323−4	Screw − Cap Hex. Hd.	1
42	100-3794	Engine Assembly	1
43	94−5615	Bracket − Return Hose	1
44	53−9682	Mount − Rubber, Engine	1
45	48−7930	Nut − Hex.	1
46	93−7276	Decal − Danger	1
47	93−6668	Decal − Recycle	1

*Not Illustrated
†Obtain Locally

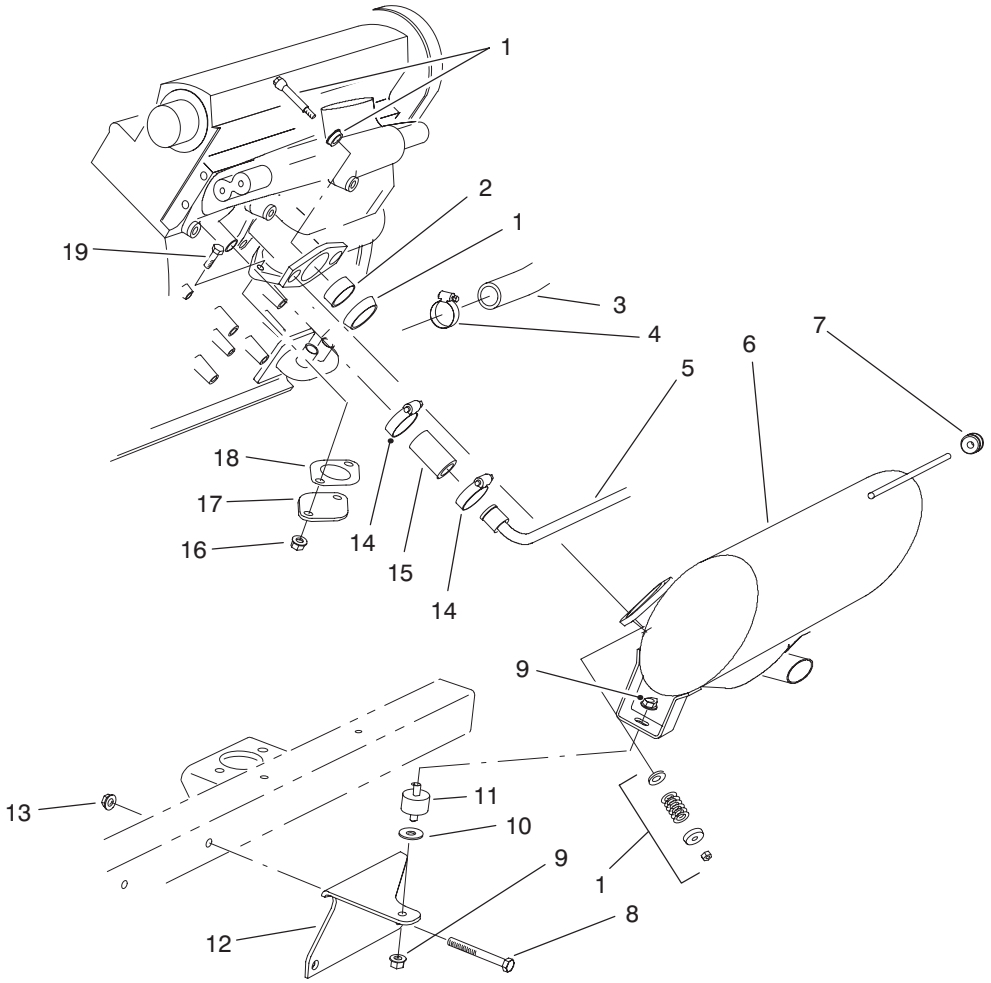


ENGINE PLUMBING ASSEMBLY

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 Asm.	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 − Fuel Line	1
18	93−7224	Hose − Intake	1
19	93−7223	Hose − Air Cleaner	1
20	2412−125	Clamp − Hose	3
21	63−7627	Hose − Fuel	1
†22	66−3240	Cap − Radiator	1

Ref. No.	Part No.	Description	No. Used
†23	94−9984	Sensor − Water Level	1
24	33105−020	Screw − Hex. Hd. Flange	1
25	63−7622	Hose − Fuel	1
†26	93−9175	Dipstick	1
27	3234−11	Screw − Flange	3
28	93−7275	Decal − Starting Fluid	1
29	33104−016	Screw − Hex. Hd. Flange	2
30	100−2597	Filter Assembly	1
31	94−1416	Adapter Assembly	1
32	93−9164	Service Indicator	1
33	48−7930	Nut − Hex.	1
34	48−7880	Nut − Hex.	3
35	86−2990	Mount − Throttle Cable	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 − Air Cleaner Hose	1

†Furnished with engine.

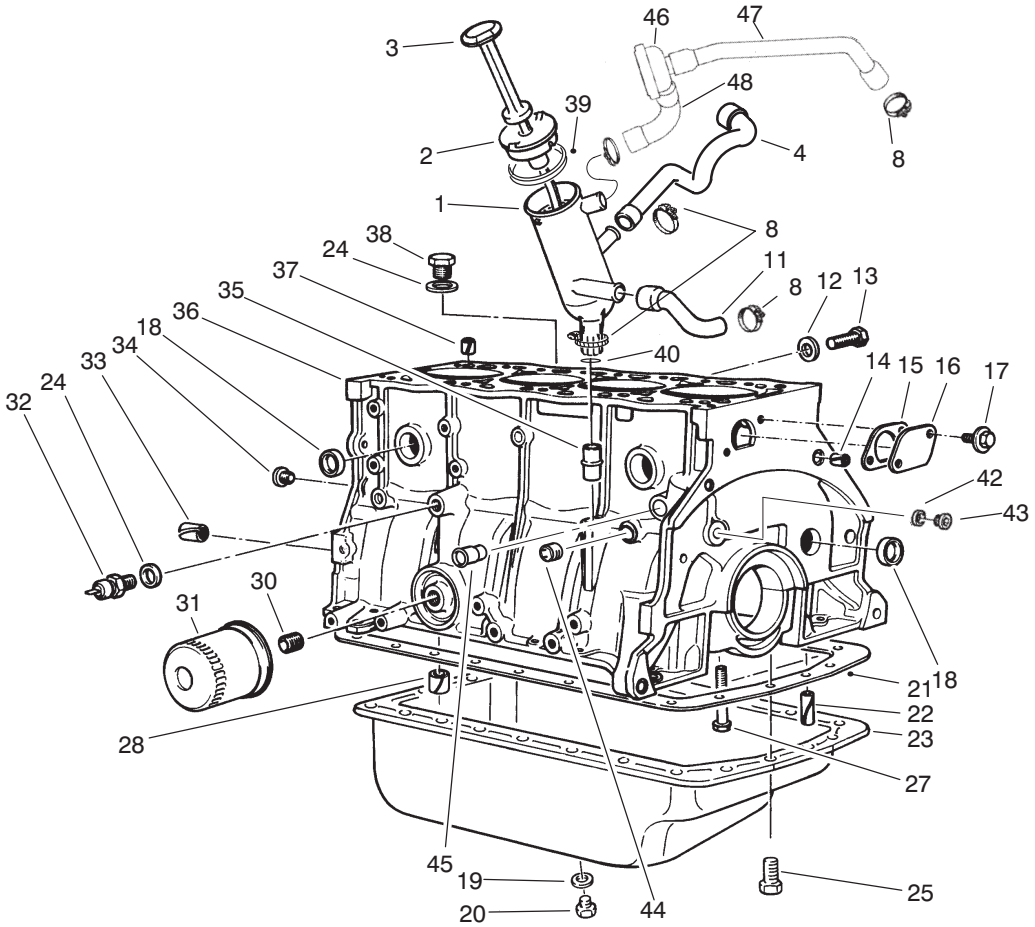


T−1544−1

MUFFLER & AIR CLEANER INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
†1	94−2814	Kit − Exhaust Coupler	1
†2	94−2815	Sleeve − Exhaust Flange	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 Hex. Hd.	2
9	32128−20	Nut − Lock, Flange	2
10	62−9510	Washer − Brake Lever	1

Ref. No.	Part No.	Description	No. Used
11	94−5608	Mount − Rubber	1
12	93−7245	Bracket − Support	1
13	32128−19	Nut − Lock, Flange	2
14	2412−129	Clamp − Hose	4
15	74−6490	Hose − Water Line	2
16	33004−00	Nut − Hex. Flange	2
17	92−7382	Cover − Manifold	1
18	77−3700	Gasket − Muffler, Exhaust	1
19	33104−020	Screw − Hex. Hd. Flange	2



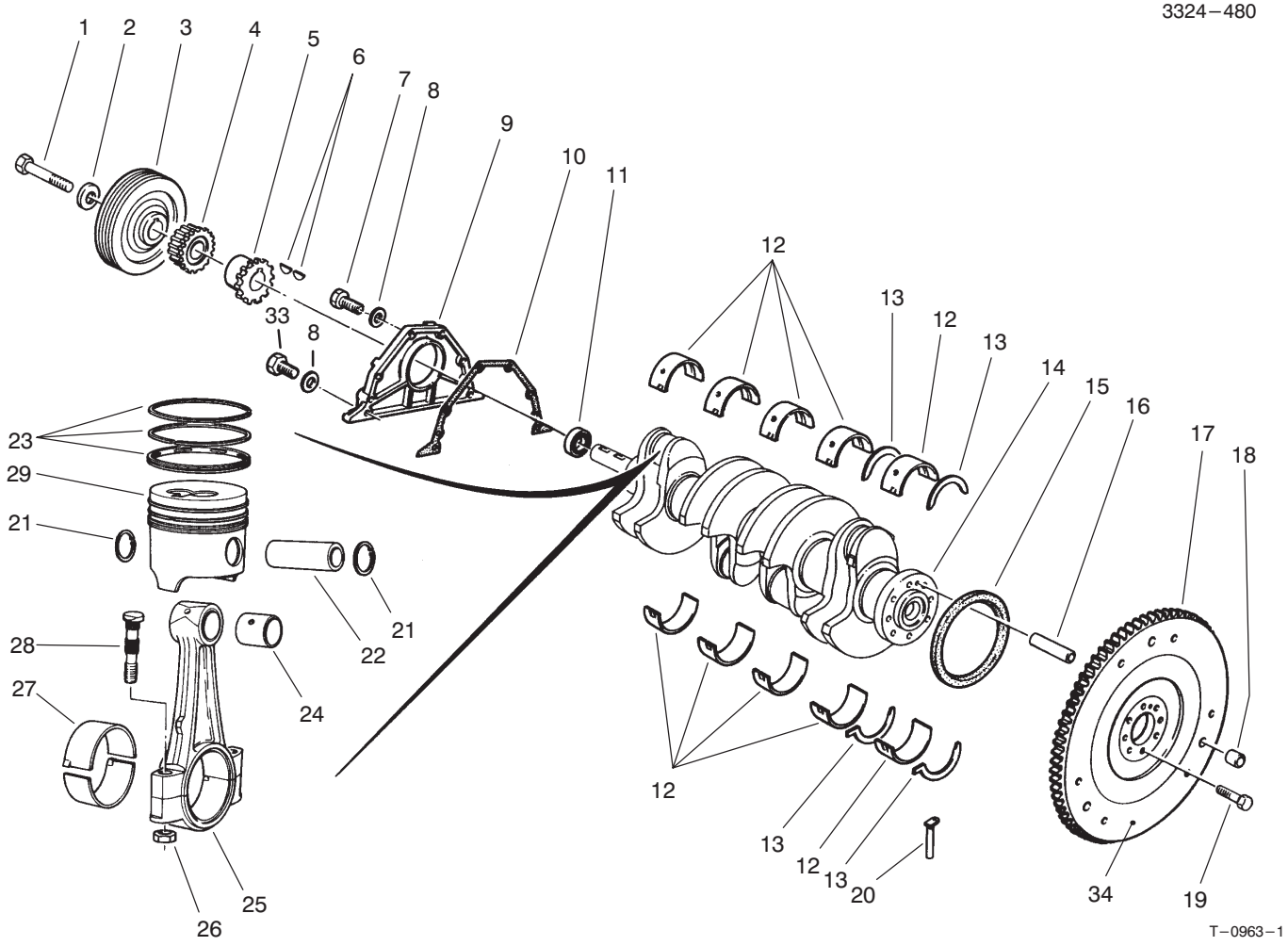
T−2142−1

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

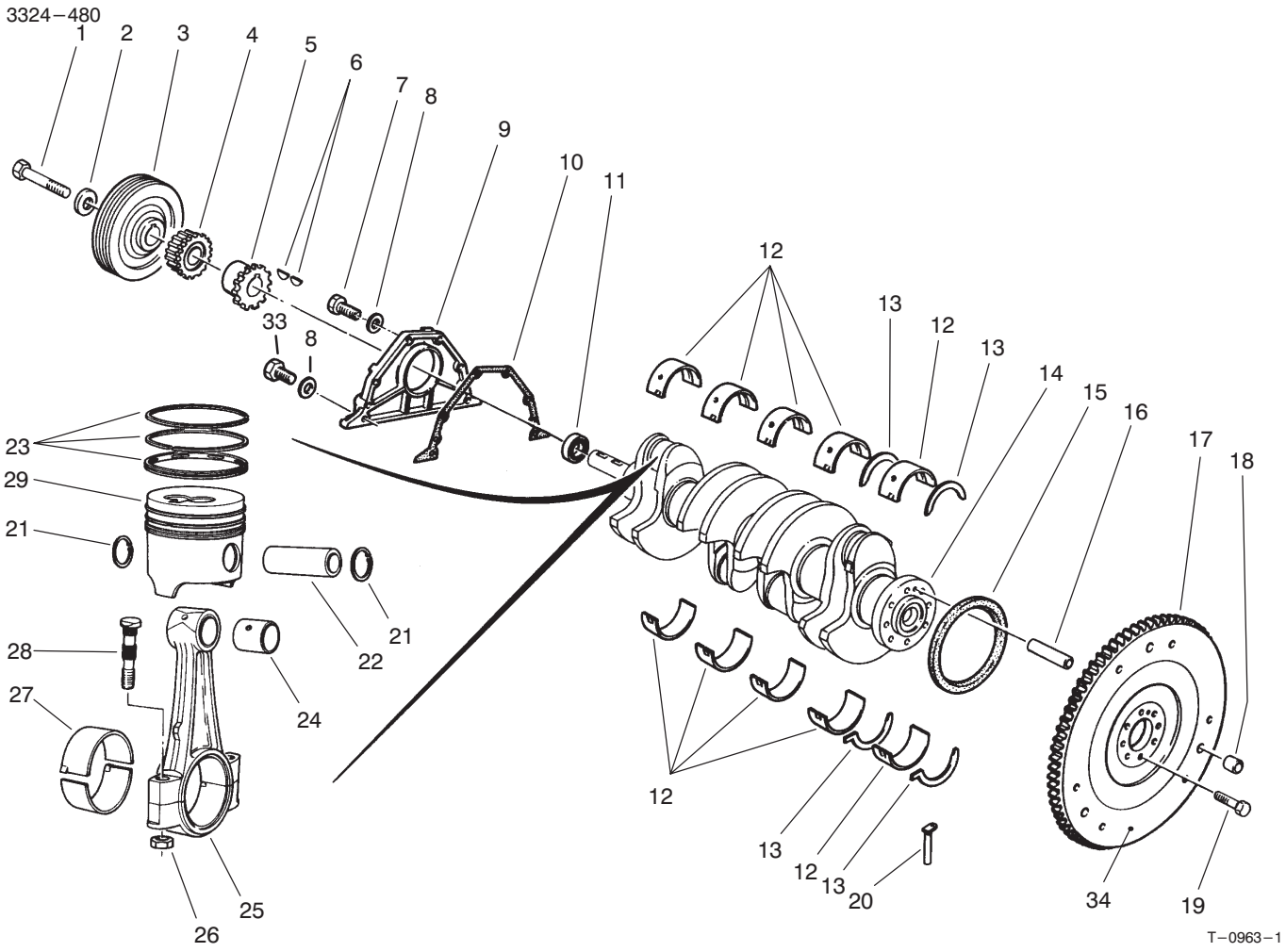


Crankshaft Assembly

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

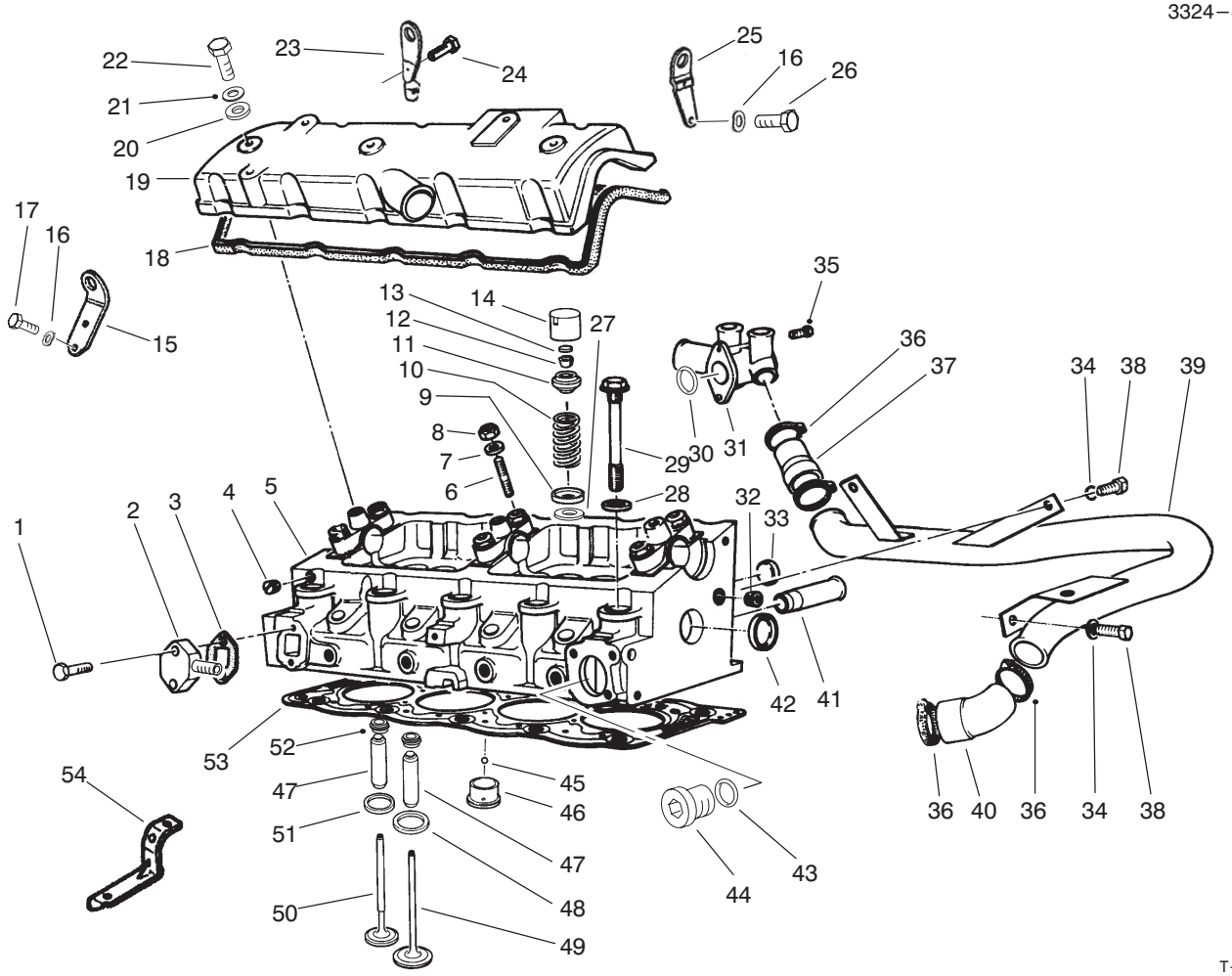


Crankshaft Assembly (Continued)

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



T−2148−5

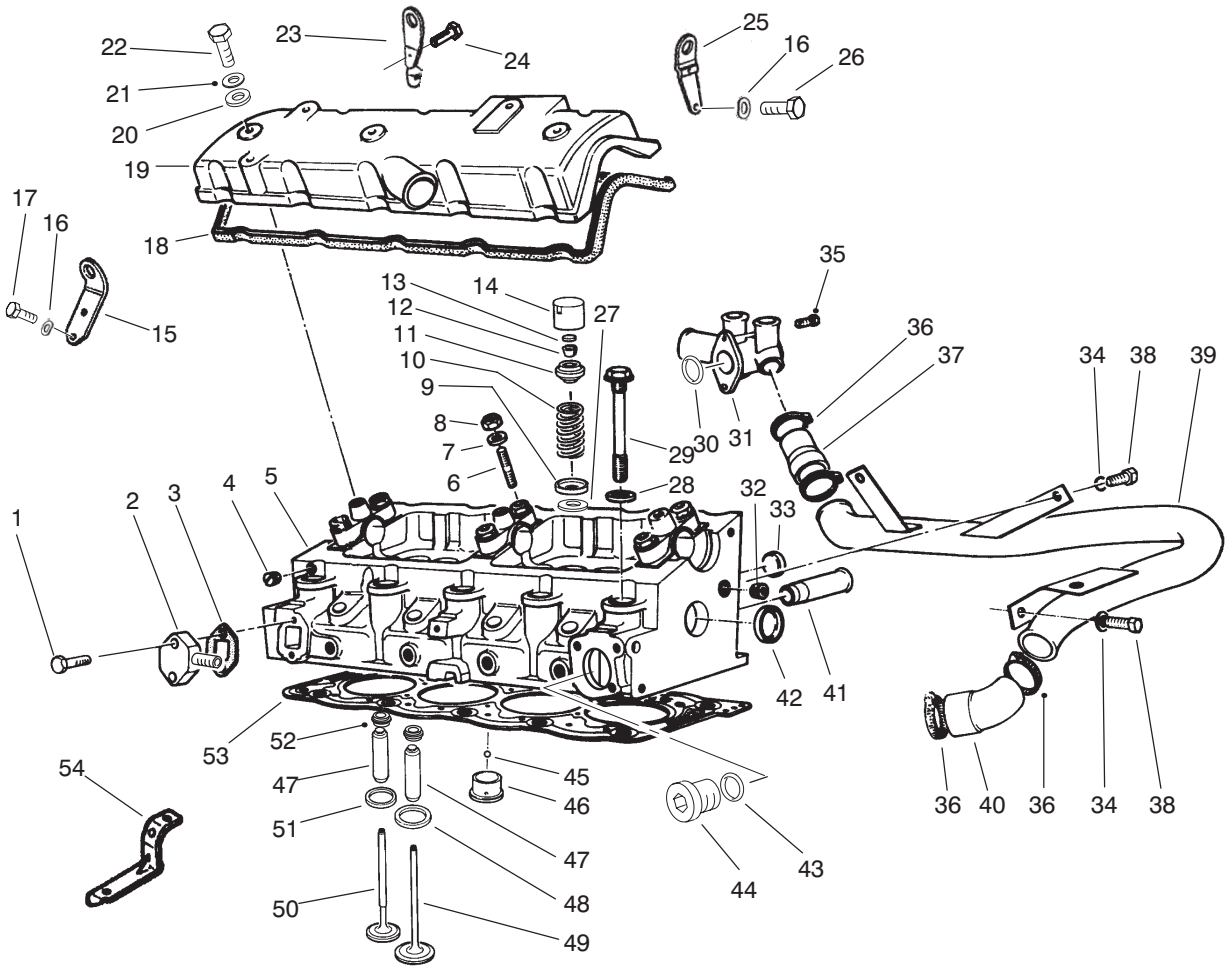
Cylinder Head Assembly

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

3324−480



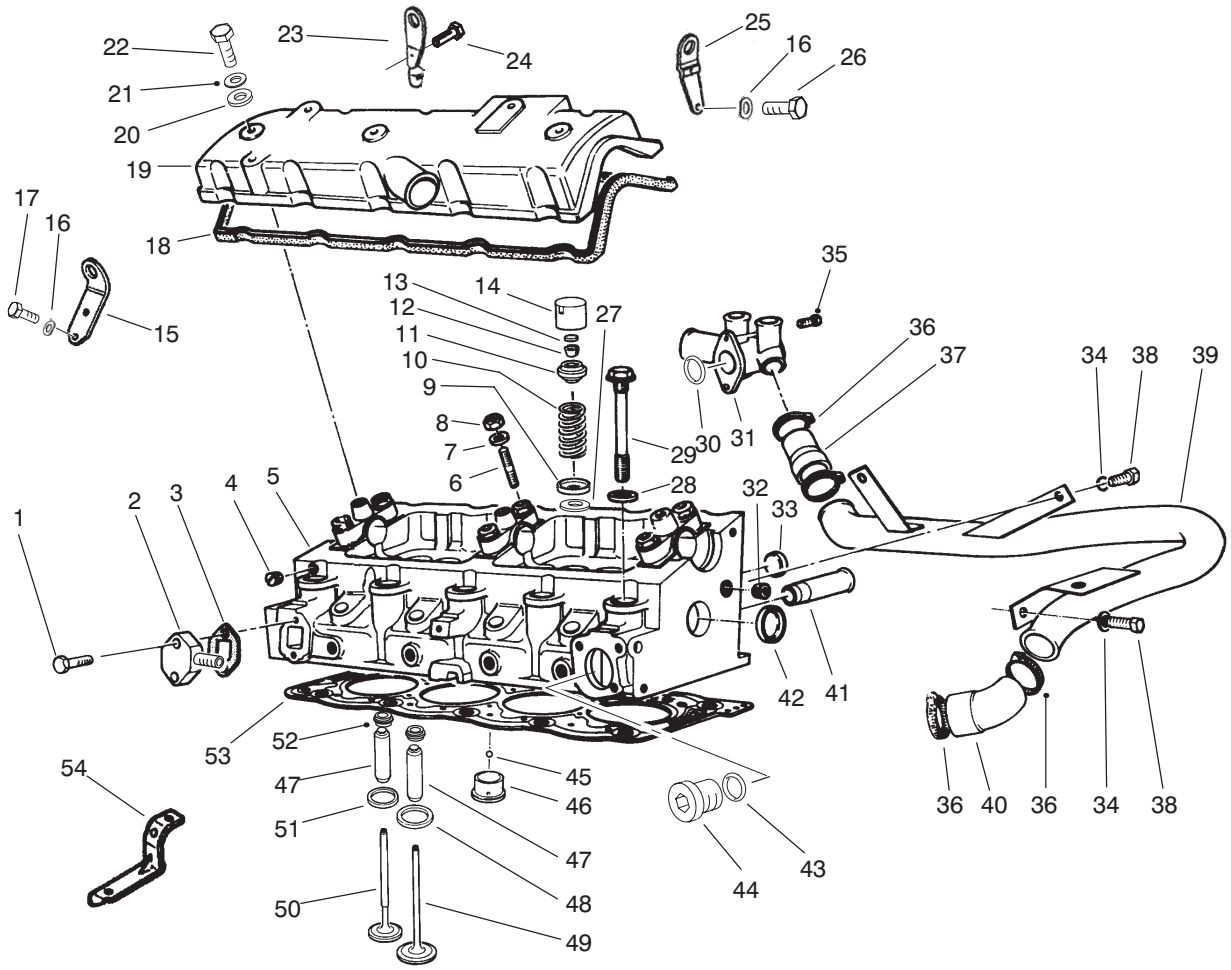
T−2148−5

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



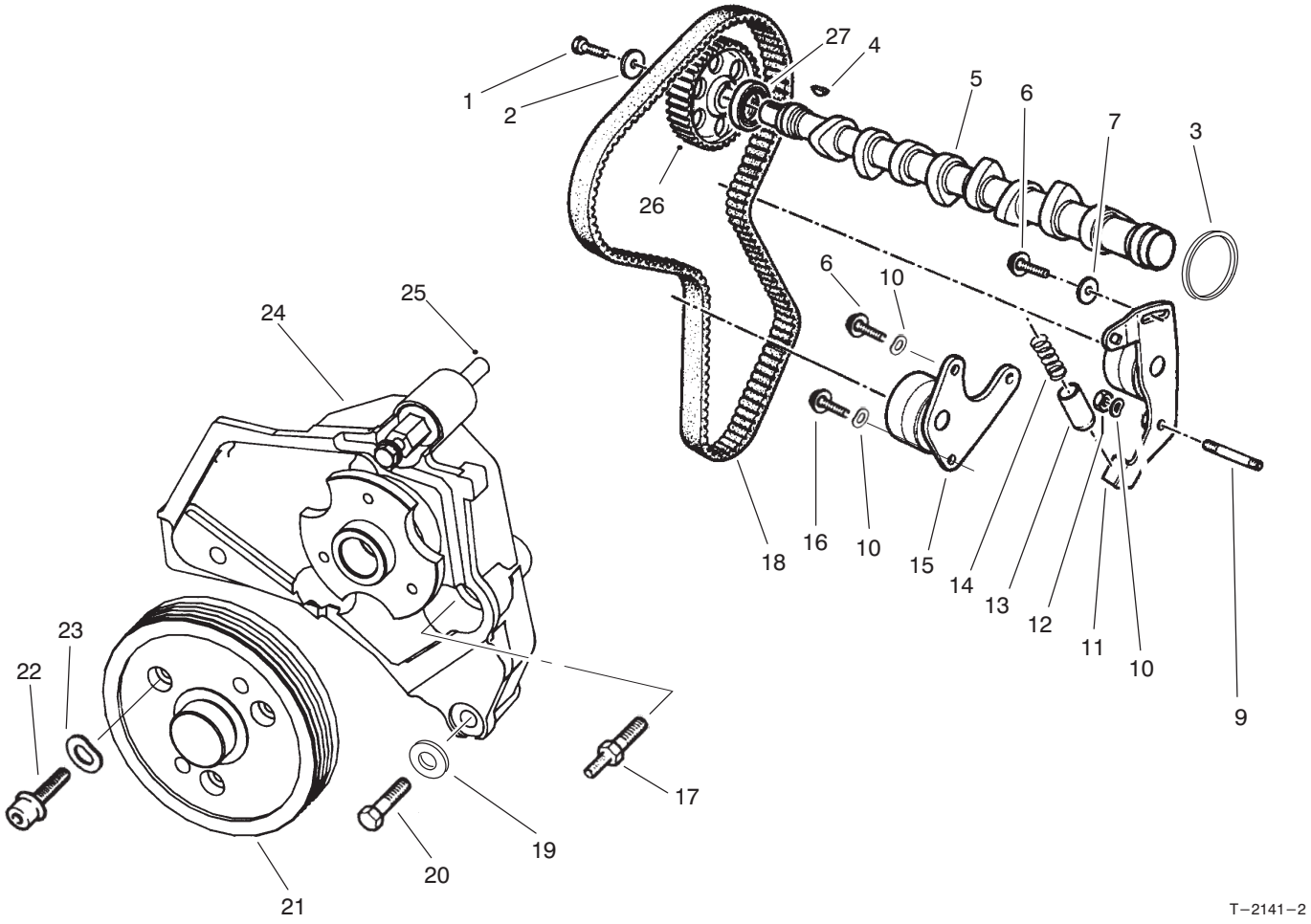
T–2148–5

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

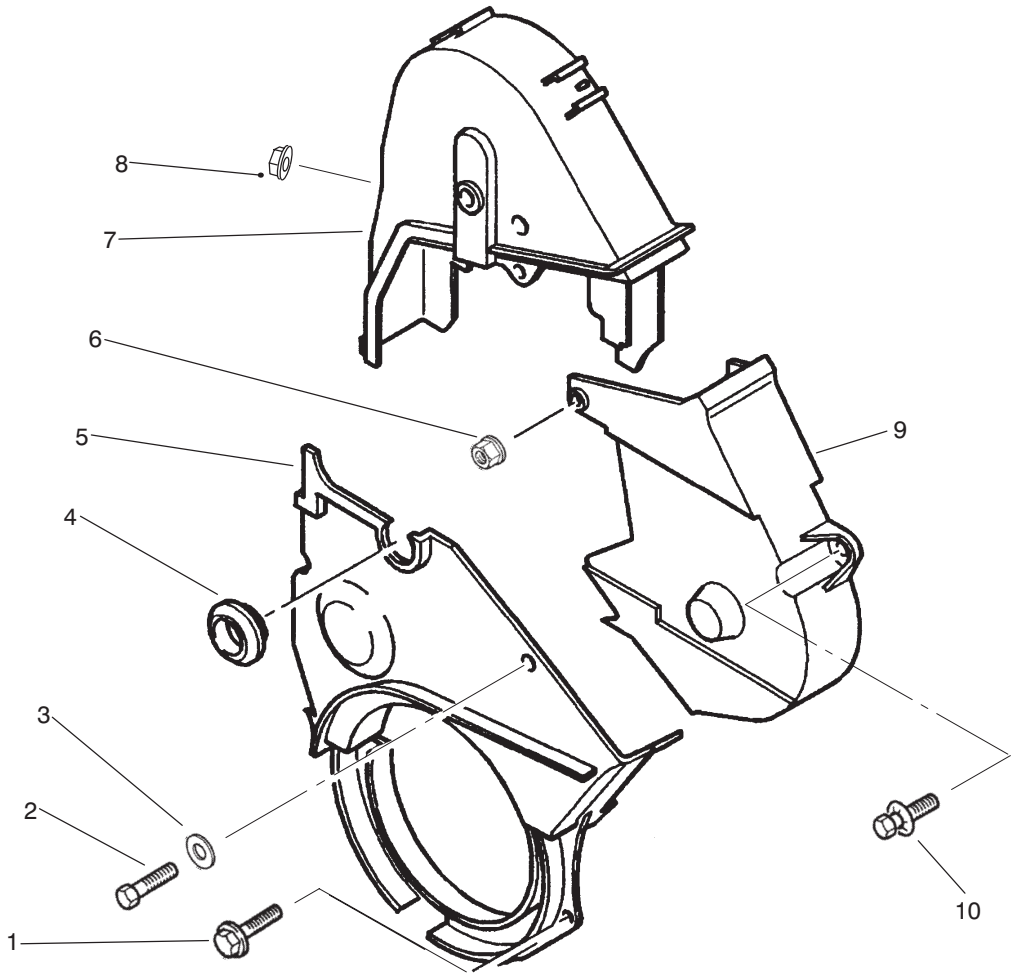


T−2141−2

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

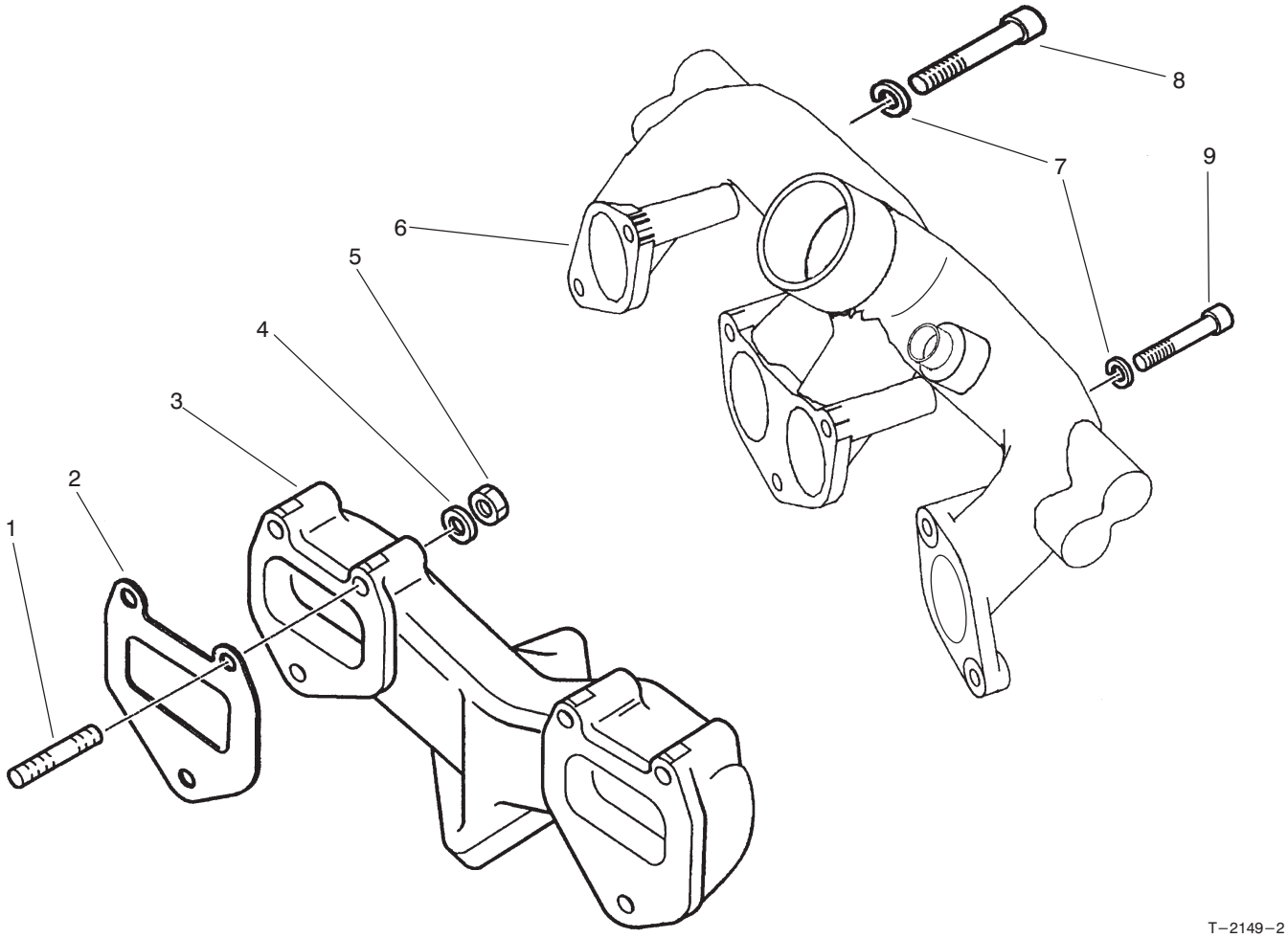
Ref. No.	Part No.	Description	No. Used
15	94−3160	Roller Assembly	1
16	94−3161	Screw	2
17	94−3170	Screw	1
18	74−8830	Belt	1
19	94−3172	Washer	3
20	94−3171	Screw	2
21	94−3168	Pulley−Fan	1
22	94−3173	Screw	3
23	76−5010	Washer	3
24	94−3167	Bracket−Fan	1
25	94−3169	Screw	1
26	98−9966	Pulley−Camshaft	1
27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



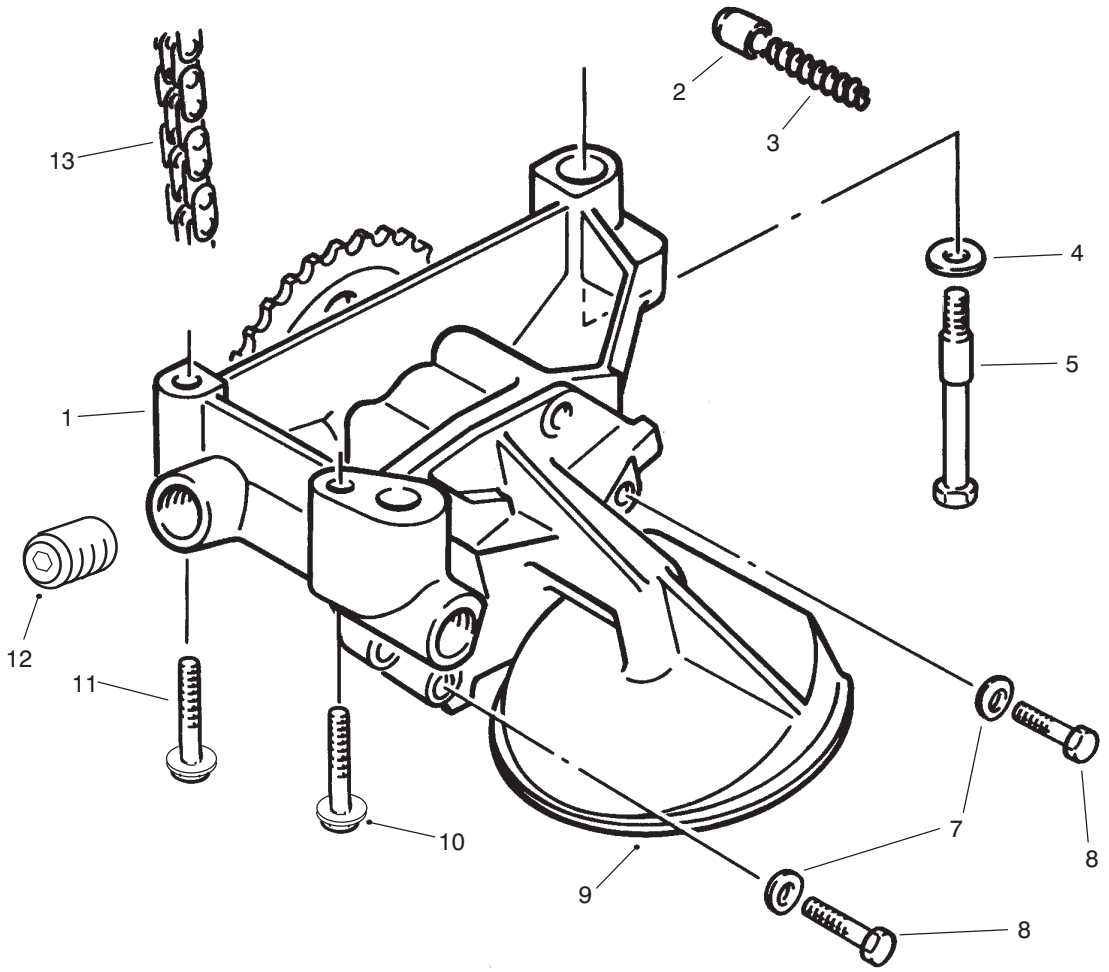
T−2149−2

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

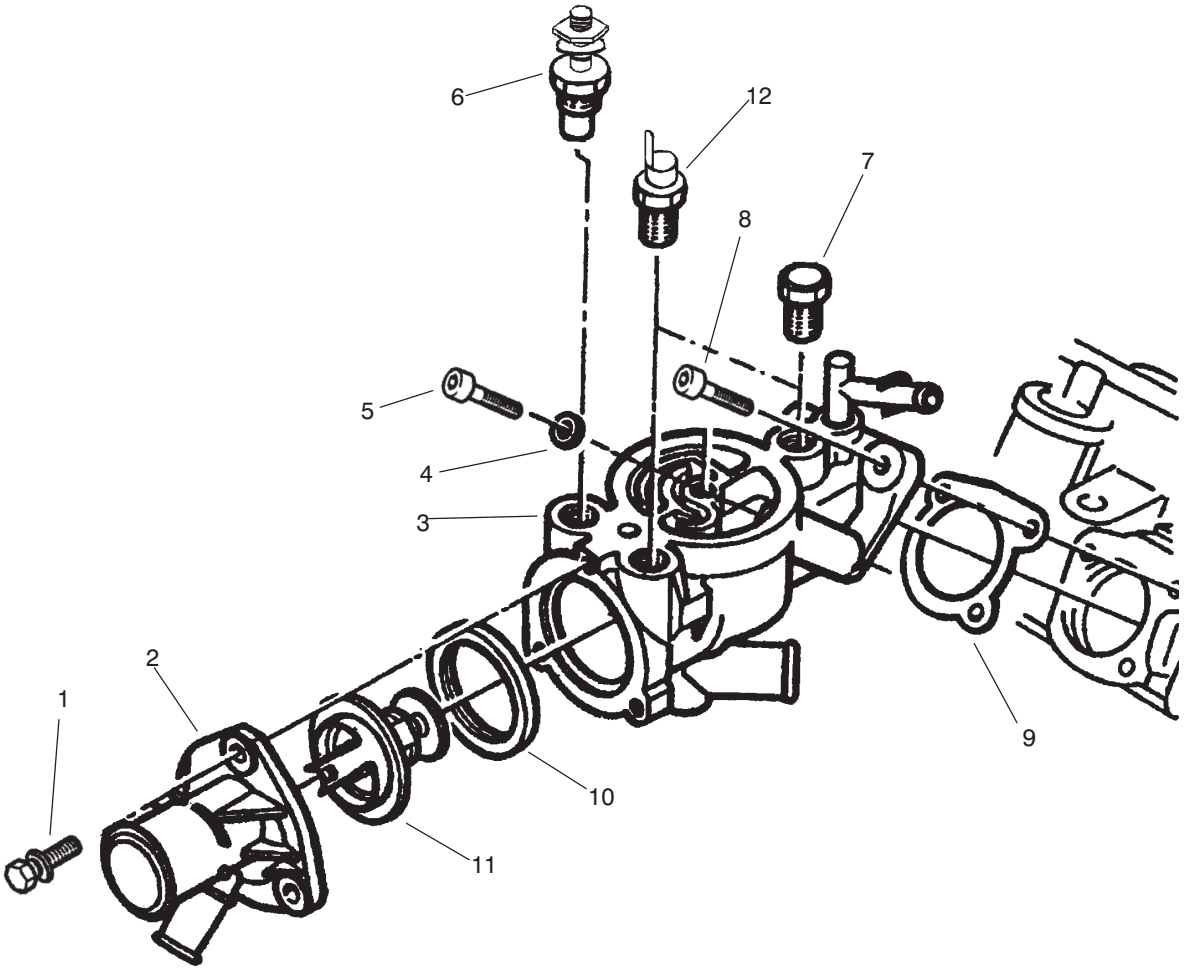


T−0964−1

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

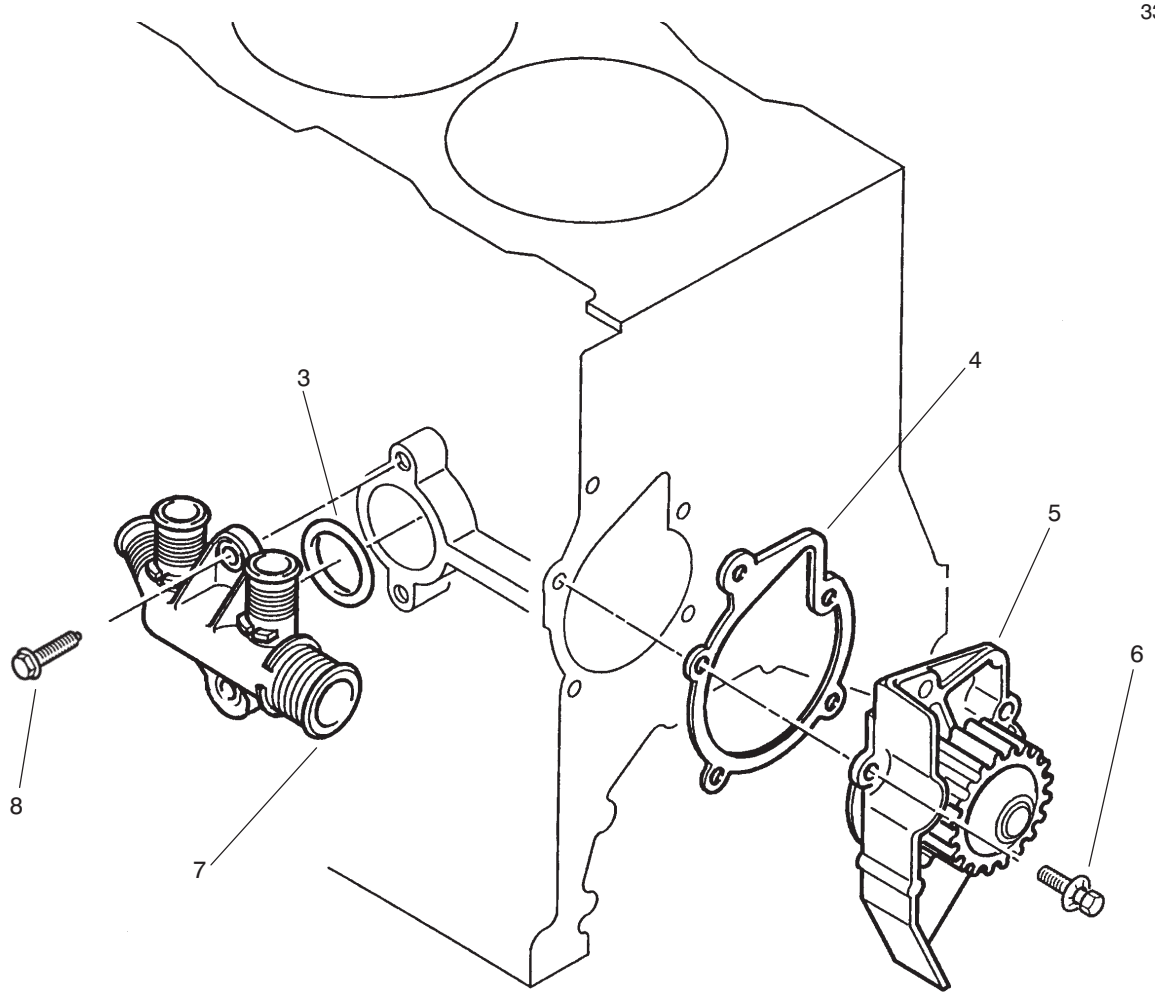


T−2143−1

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

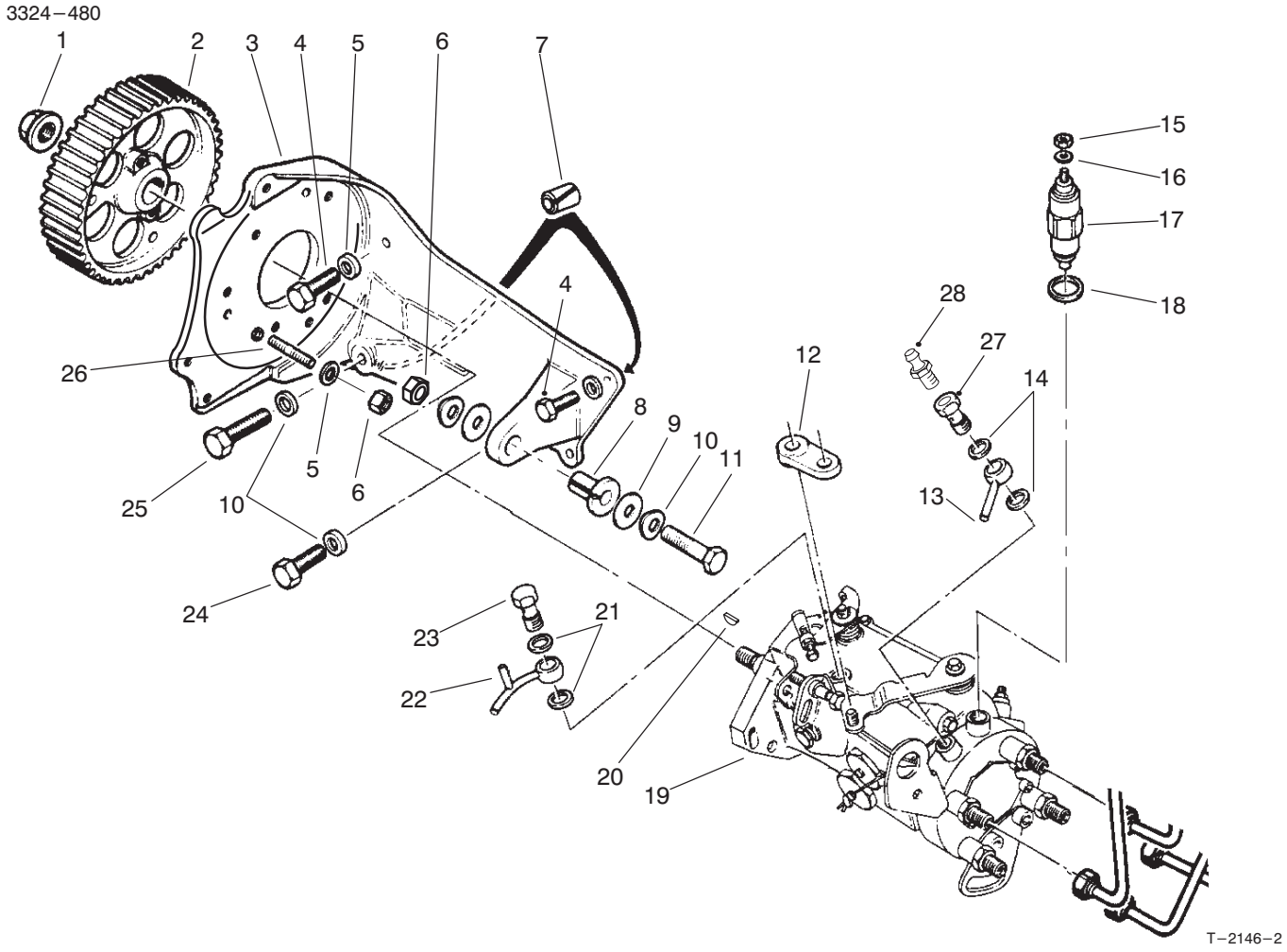


T−2144−1

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
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

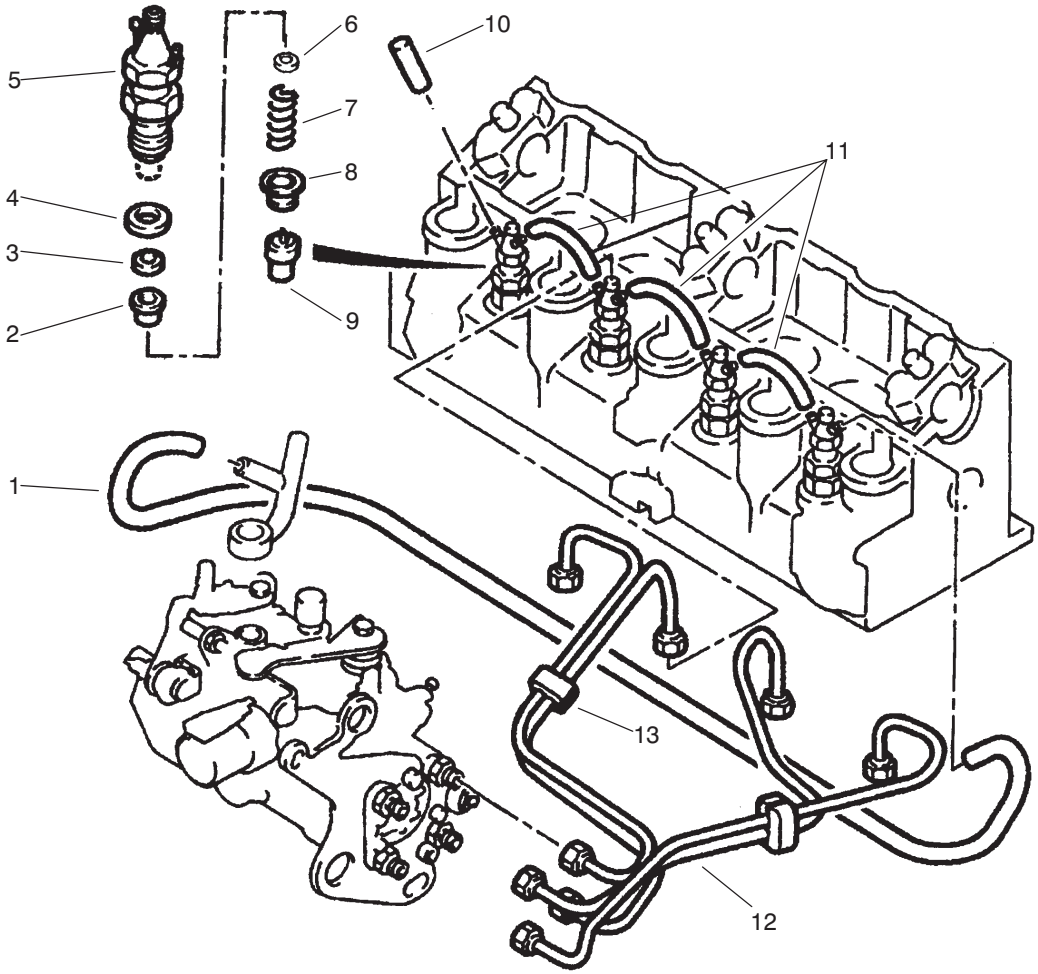
*Not Illustrated



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



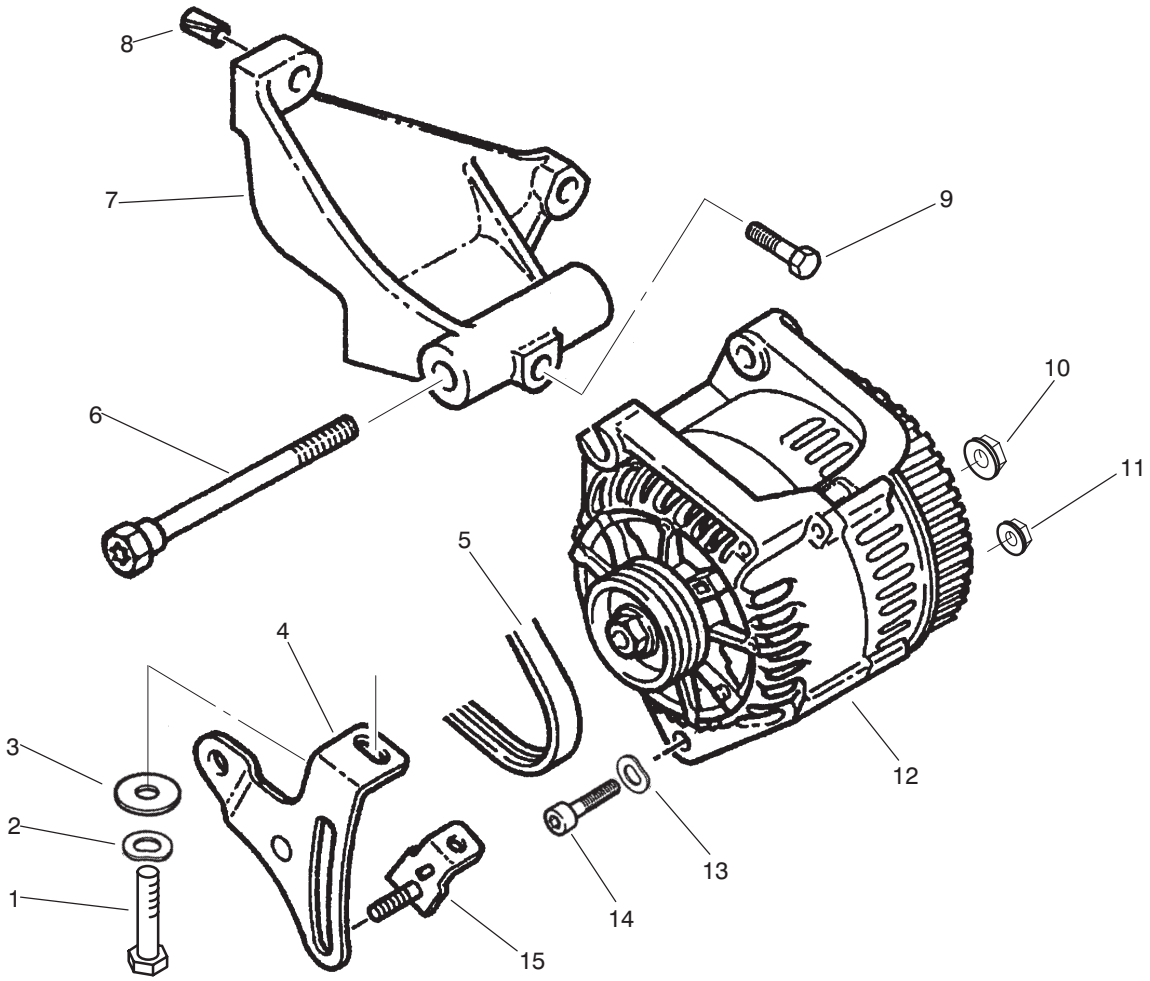
T–2145–1

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

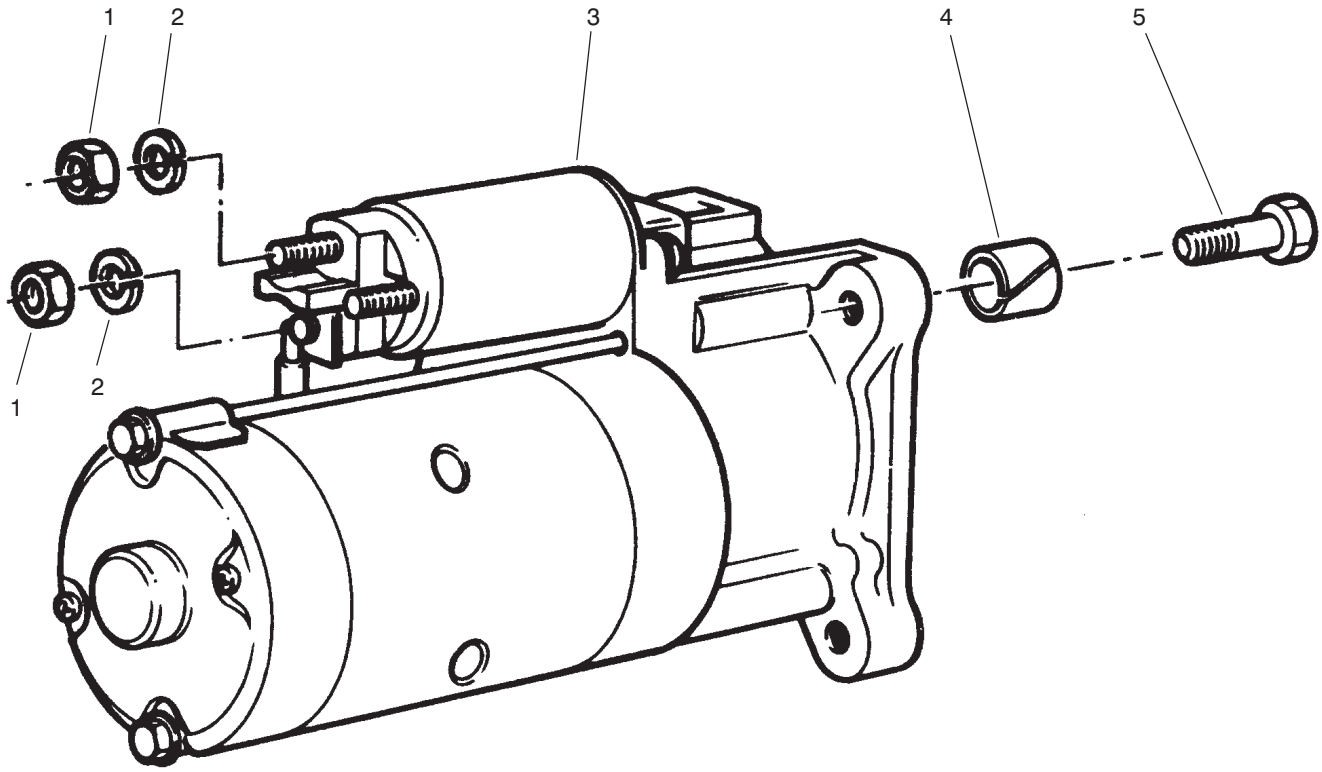
*Not Illustrated



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



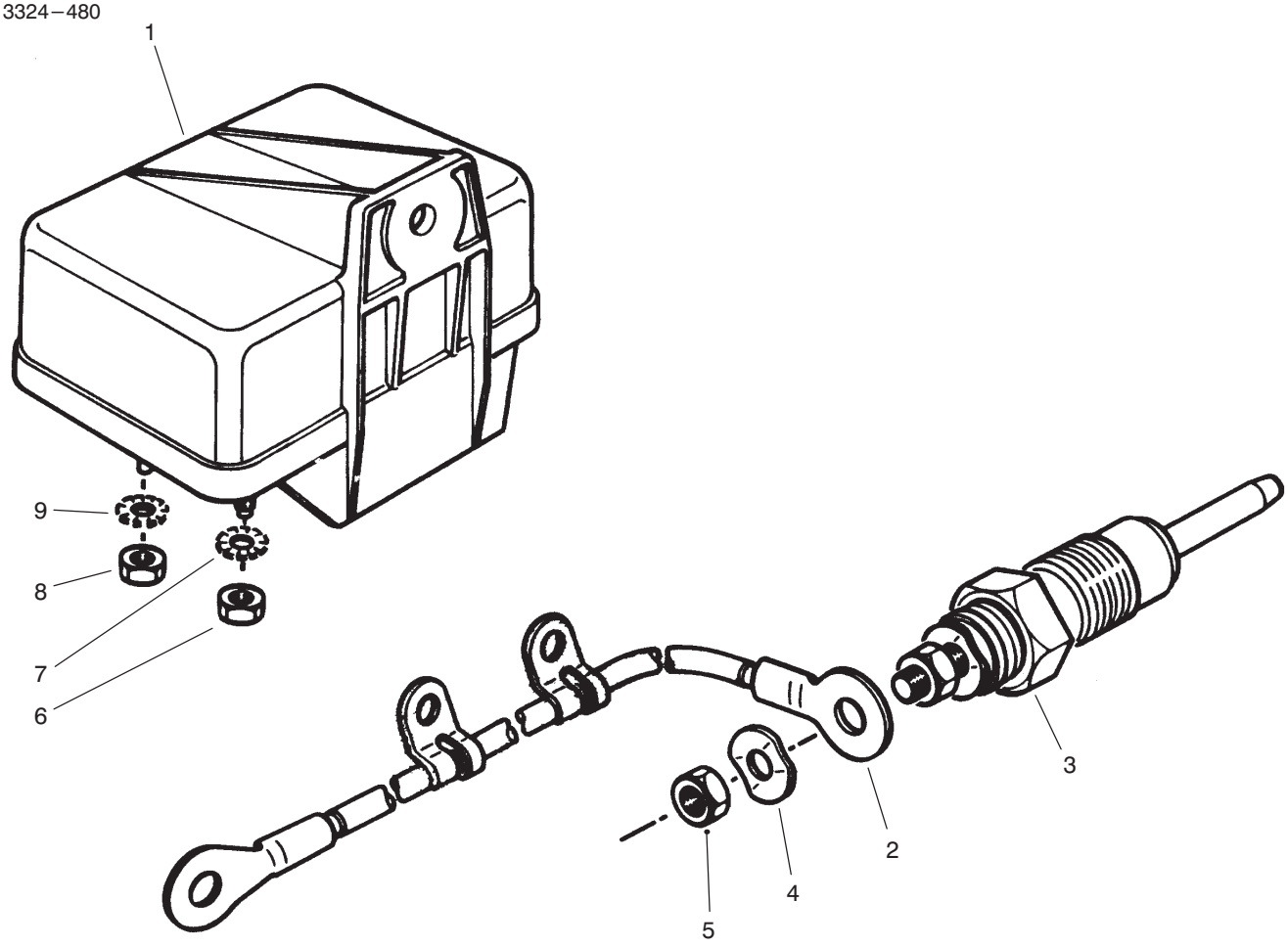
T−0968−1

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
4	76−5590	Sleeve−Spring	1
5	48−7810	Screw−Mounting	3
*	94−3275	Solenoid−Starter	1

*Not Illustrated

3324–480

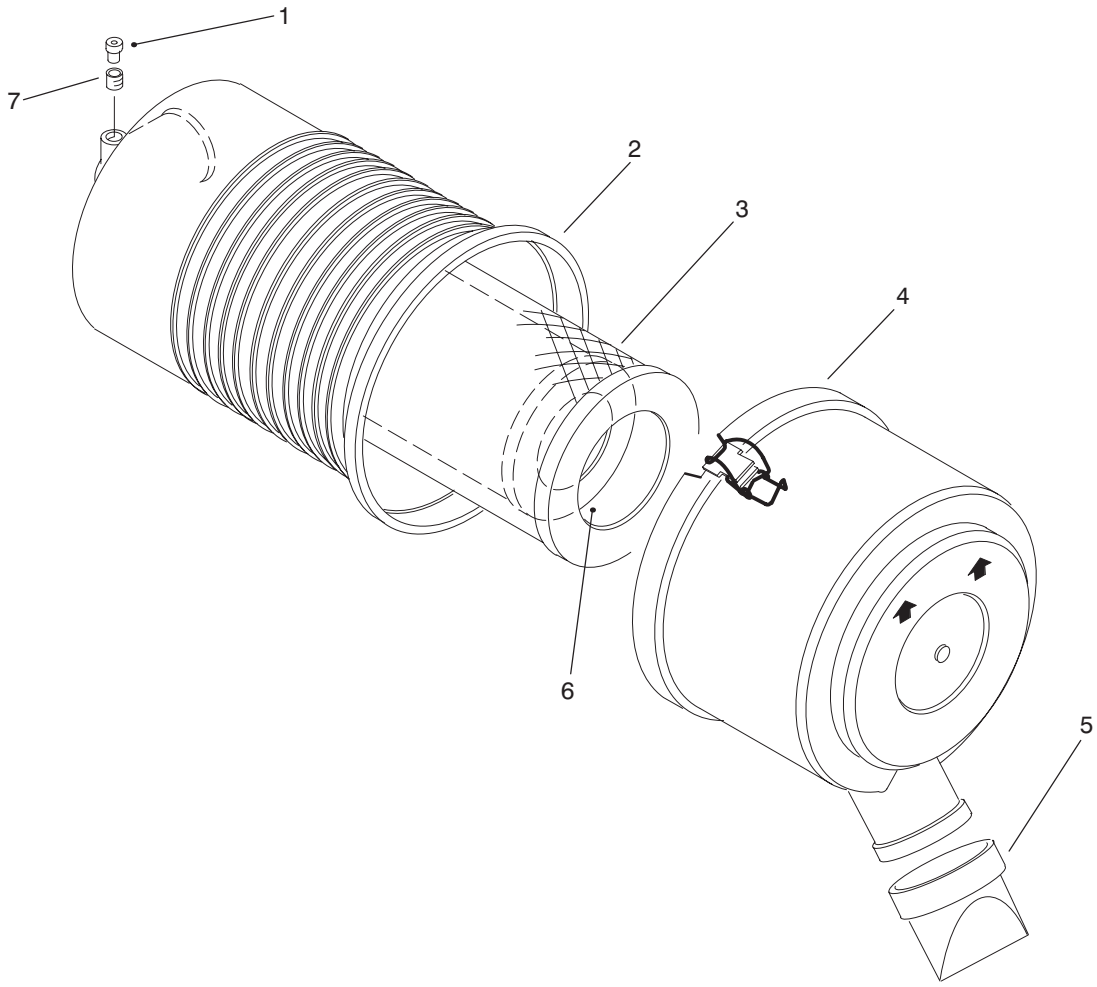


T–0972–1

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

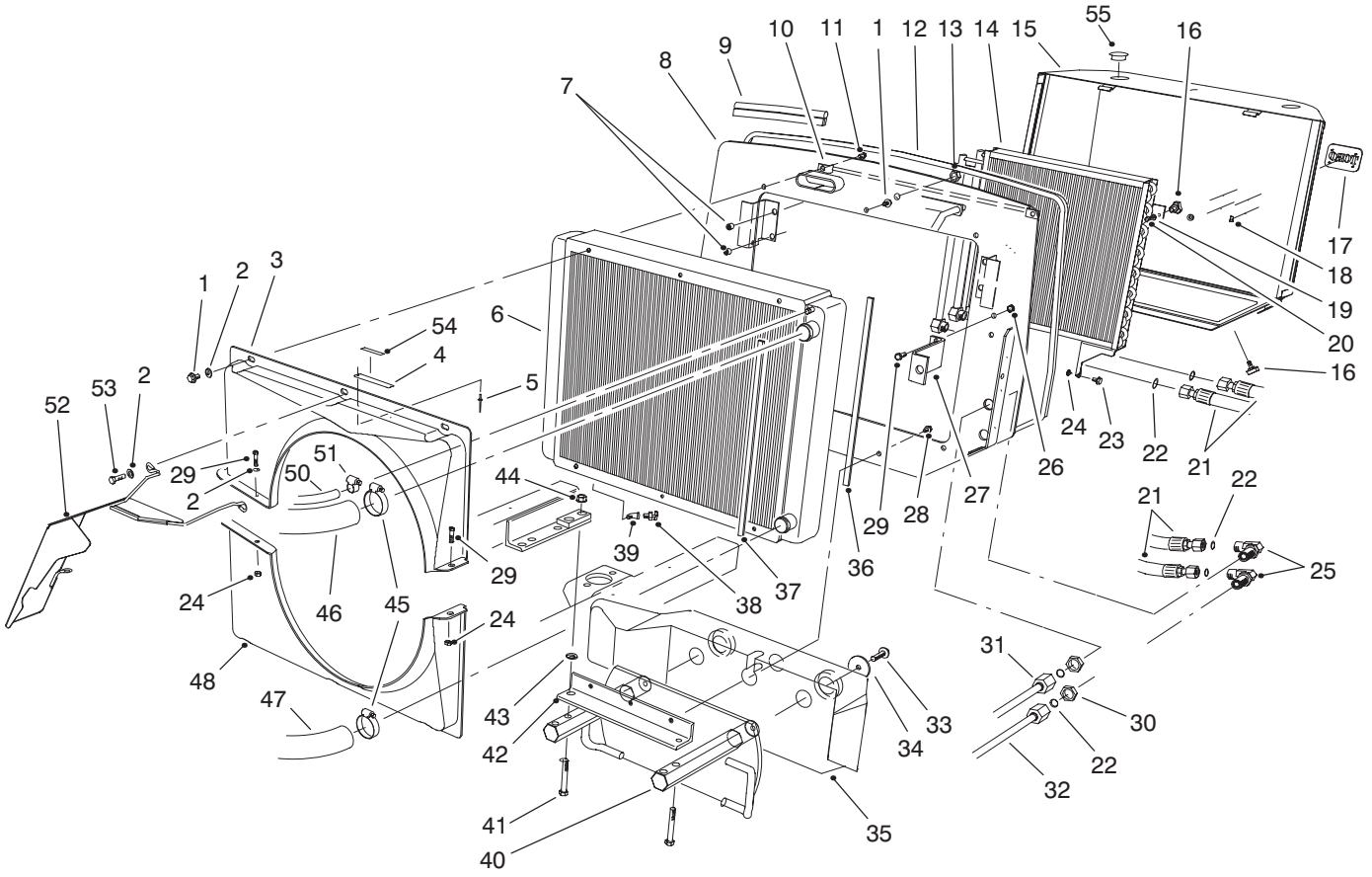


T–2076–1

AIR CLEANER ASSEMBLY NO. 100–2597

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

Ref. No.	Part No.	Description	No. Used
5	87–9400	Valve – Vacuator	1
6	93–9163	Filter – Safety	1
7	94–1416	Asm. – Adaptor	1

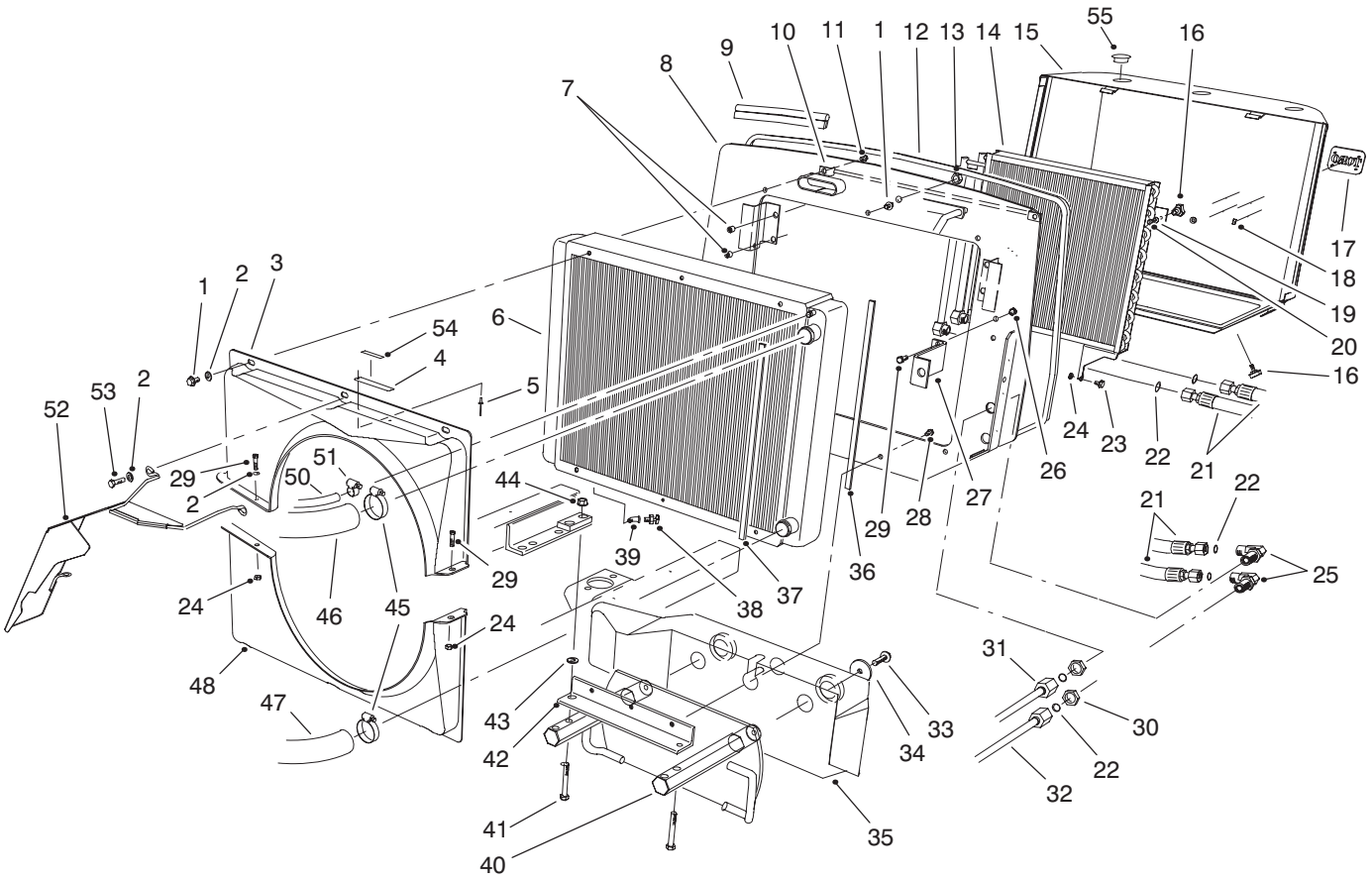


T−1518−3

RADIATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3234−30	Screw − Hex. Flange Hd.	8
2	3256−23	Washer − Flat	7
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	94-5621-03	Bracket Assembly − Screen	1
11	3234−14	Screw − Hex. Hd. Flange	2
12	94−5622	Seal Strip − Screen	1
13	3296−23	Nut − Hex. Lock	2
14	82−3740	Oil Cooler Assembly	1
15	94-5612-03	Screen Assembly	1
16	77−3620	Retainer − Cover	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 − Hex. Washer Hd.	2
24	3296−47	Nut − Lock	5

Ref. No.	Part No.	Description	No. Used
25	340−72	Fitting − Hydraulic 90° (Incl. Ref. #22)	2
26	32128−20	Nut − Lock Flange	2
27	93-7244-03	Bracket − Support	1
28	3234−11	Screw − Hex. Washer Hd.	5
29	322−4	Screw − Cap Hex. Hd.	5
30	340−74	Nut − Bulkhead	2
31	74−6400	Assembly − Tube	1
32	94−8298	Tube Assembly − Oil Cooler	1
33	325−34	Screw − Hex. Flange Hd.	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	Drain Cock	1
39	2811−1	Fitting − 45° Elbow	1
40	98−7070	Weight − Rear	1
41	325−35	Screw − Cap Hex. Hd.	2
42	74-5460-03	Angle Radiator Support	1
43	3256−26	Washer − Flat	2
44	32128−49	Nut − Hex. Flange	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

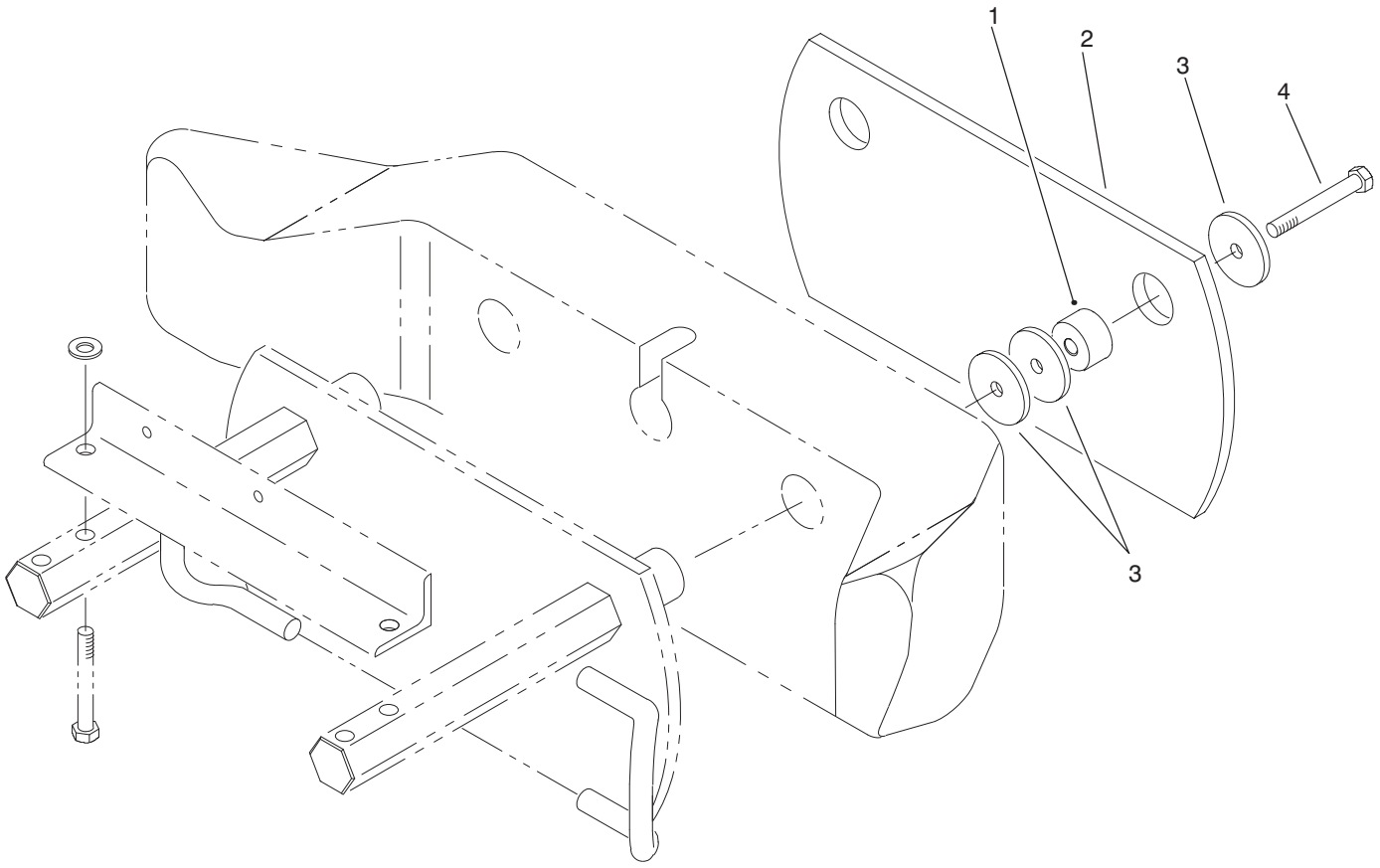


T−1518−3

RADIATOR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
50	94−5625	Hose − Radiator, Overflow	1
51	2412−36	Clamp − Hose	1
52	94−5635	Guard − Fan	1

Ref. No.	Part No.	Description	No. Used
53	3234−5	Screw − Hex. Flange Hd.	2
54	93−6681	Decal − Warning	1
55	2410−64	Plug − Hole	3

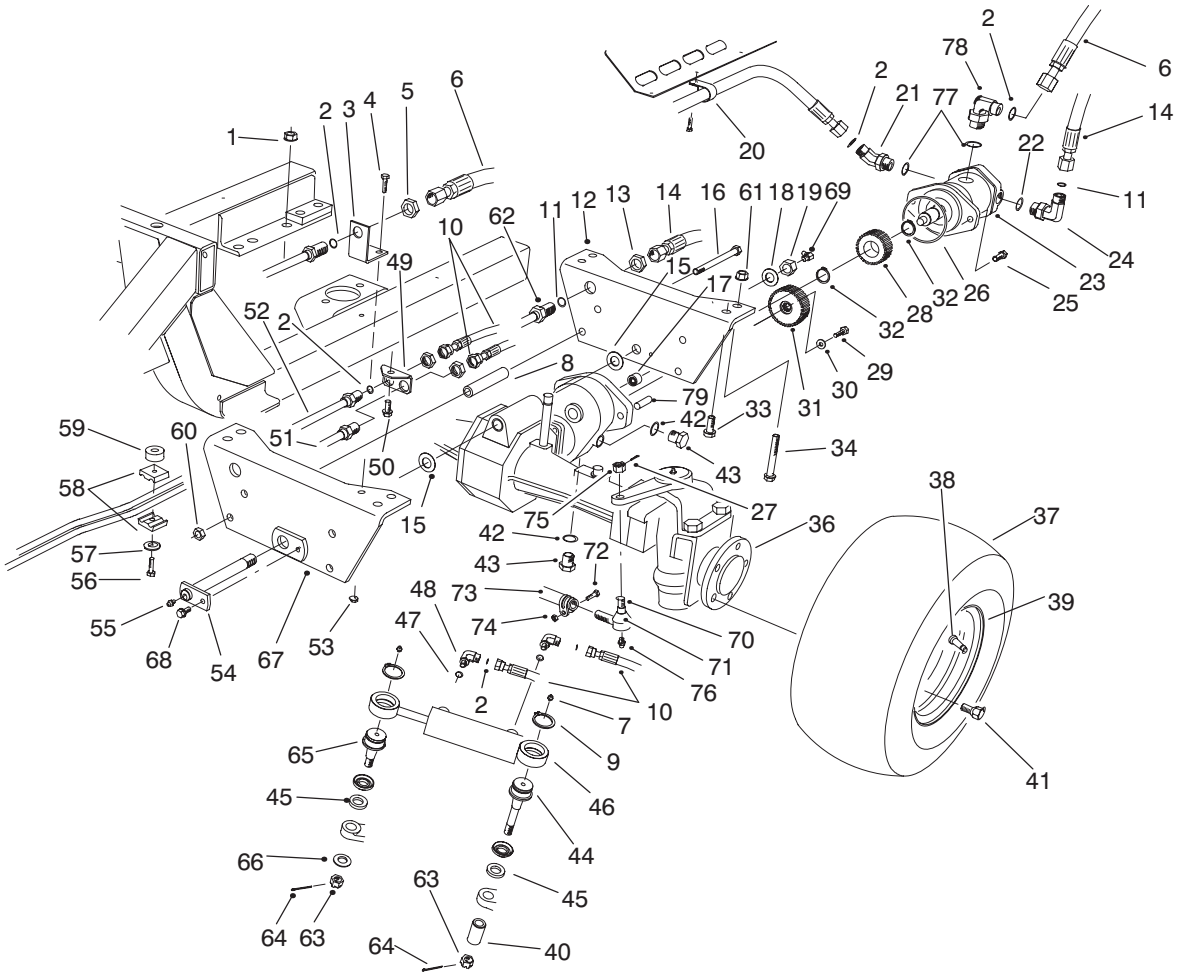


T−1946−1

ADDITIONAL WEIGHT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	84−1570	Spacer	2
2	88−1220	Plate	2

Ref. No.	Part No.	Description	No. Used
3	88−1360	Washer − Rear Weight	6
4	325−18	Screw − Cap Hex. Hd.	2

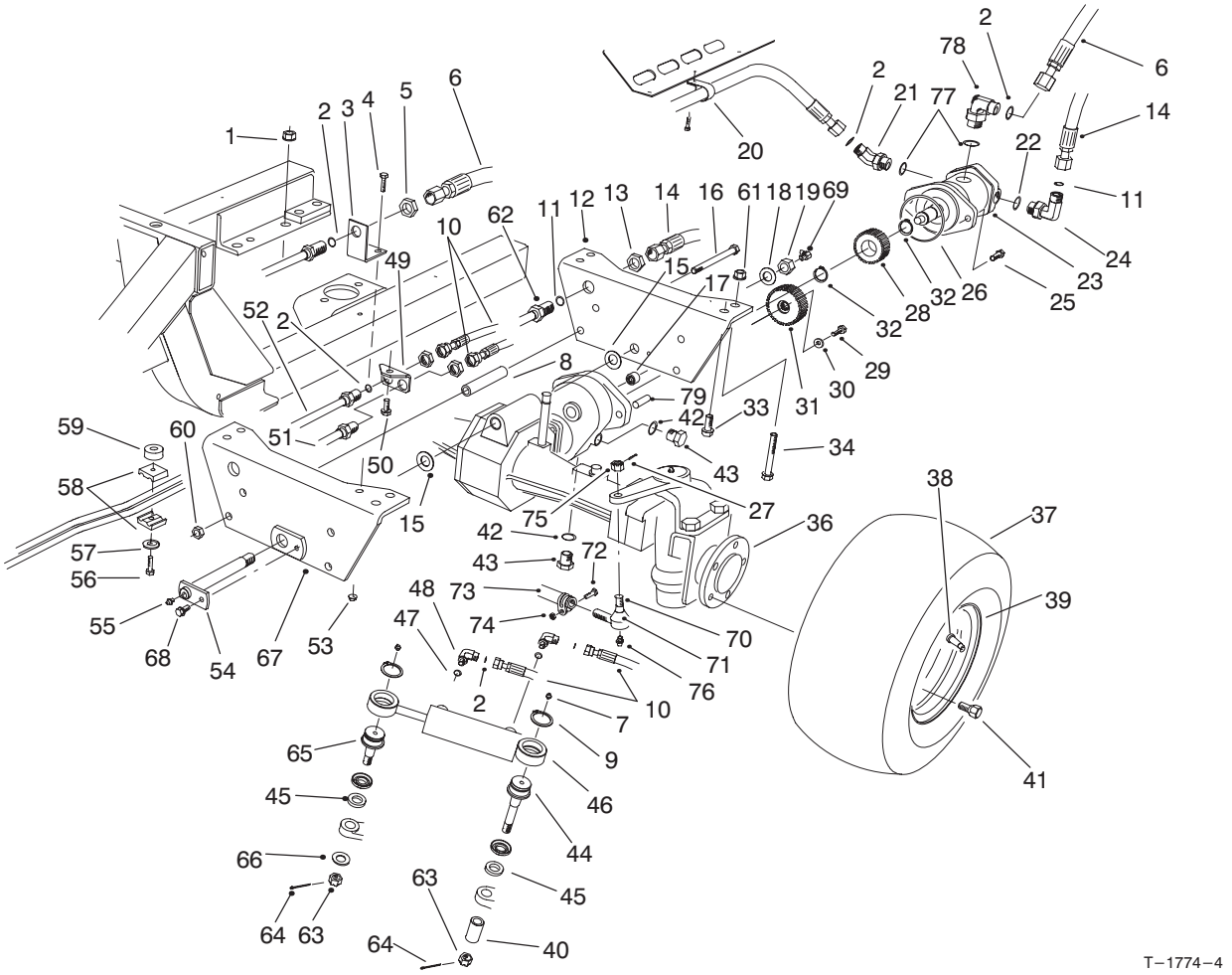


T–1774–4

REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32128–23	Nut–Flange Lock	2
2	237–22	Seal–O–Ring	8
3	76–9290	Bracket–Bulkhead	1
4	3234–4	Screw–Cap Hex. Hd.	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	2
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 Hex. Hd.	2
17	74–5700	Bearing–Needle	1
18	92–1765	Washer–Thrust	1
19	3296–68	Nut–Lock	1
20	2412–74	Clamp–R	1
21	340–18	Fitting–Hydraulic 45° (Incl. Ref. #2 & 77)	1
22	237–81	O–Ring	1
23	99–7502	Motor–Hydraulic	1
24	340–139	Fitting–Hydraulic 90° (Incl. Ref. #11 & 22)	1

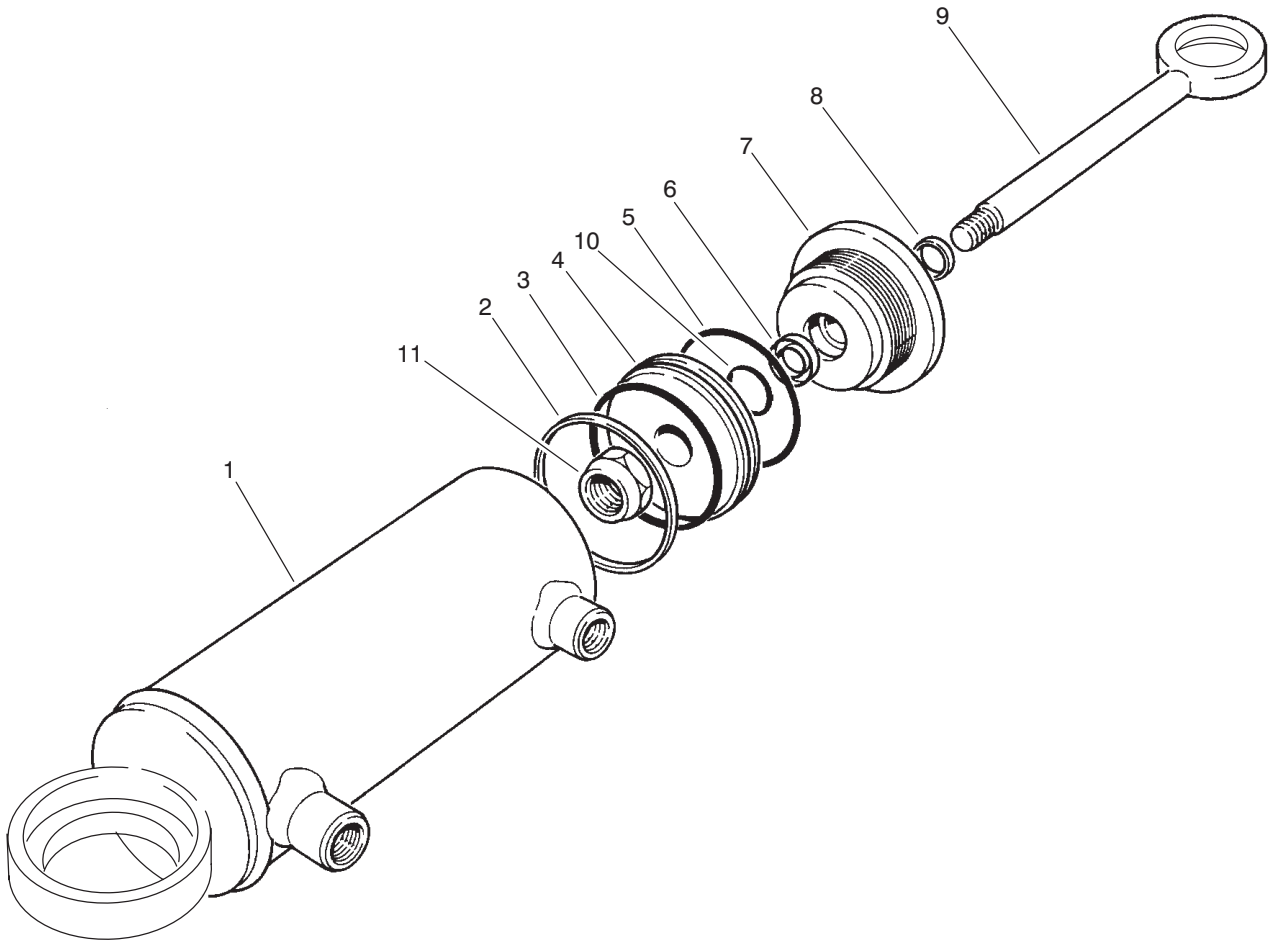
Ref. No.	Part No.	Description	No. Used
25	325–6	Screw–Cap Hex. Hd.	2
26	237–166	O–Ring	1
27	3272–17	Pin–Cotter	2
28	95–4393	Gear–Driver	1
29	33114–025	Screw–HH	1
30	88–7200	Washer–Flat	1
31	99–7500	Clutch–Bidirectional	1
32	32120–15	Ring–Retaining	2
33	325–12	Screw–Hex. Flange Hd.	2
34	325–35	Screw–Cap Hex. Hd.	2
35	95–4391	Tie Rod Assembly (Incl. Ref. #70–76)	1
36	95–7500	Axle–4wd	1
37	86–5910	Tire	2
38	217–125	Rim	2
39	232–27	Stem–Valve	2
40	92–5844	Spacer–Ball Joint	1
41	74–5500	Bolt–Wheel	10
42	237–42	O–Ring	3
43	353–508	Plug (Incl. Ref. #42)	2
44	92–5839	Ball Joint	1
45	92–5833	Spacer–Ball Joint	2
46	98–3806	Cylinder–Hydraulic	1
47	237–78	O–Ring	2



REAR AXLE ASSEMBLY (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–Hex. Washer Hd.	1
51	86–5790	Tube Assembly LH Rear	1
52	86–5780	Tube Assembly RH Rear	1
53	32128–33	Nut–Flange, Lock	1
54	98–7077	Pin–Axle Pivot	1
55	302–2	Fitting–Grease	1
56	32104–37	Screw–Cap Hex. Hd.	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	Assembly–Tube	1
63	32136–14	Nut–Hex. Slotted Hd.	2

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

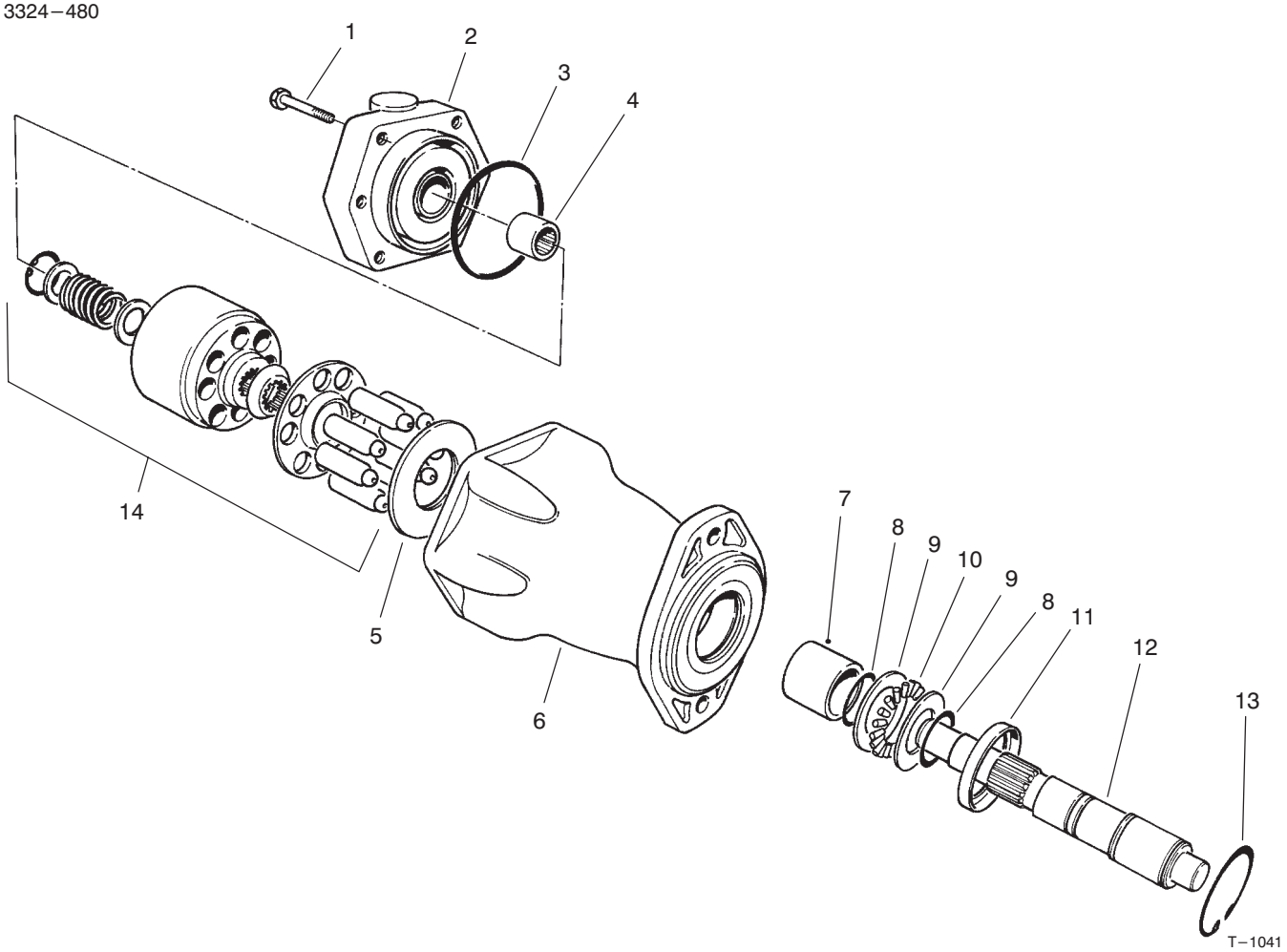


T–1776–1

HYDRAULIC CYLINDER NO. 98–3806

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
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

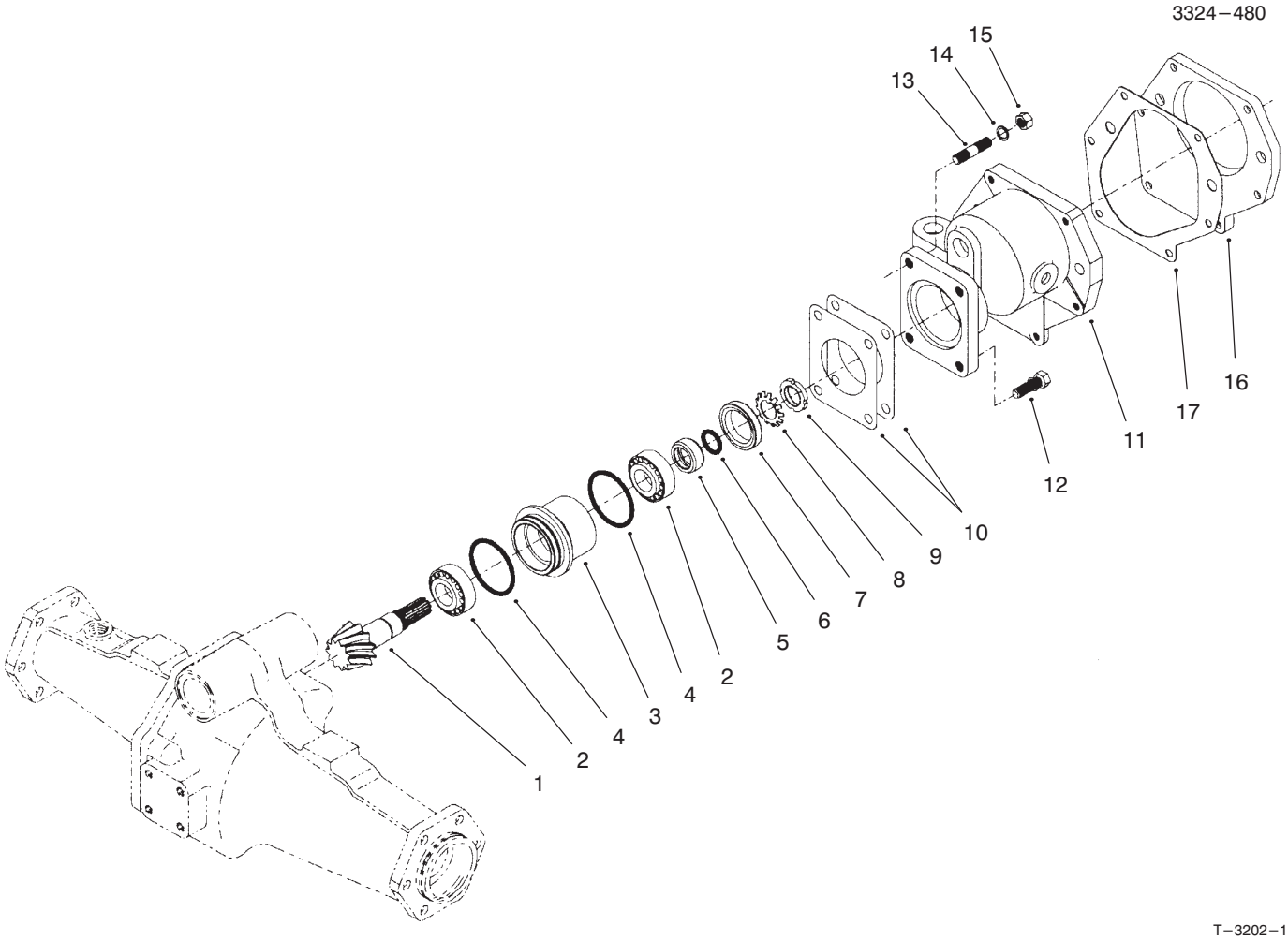
3324−480



HYDRAULIC MOTOR NO. 99−7502

Ref. No.	Part No.	Description	No. Used
1	100−2550	Screw − Cap, Hex. Hd.	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

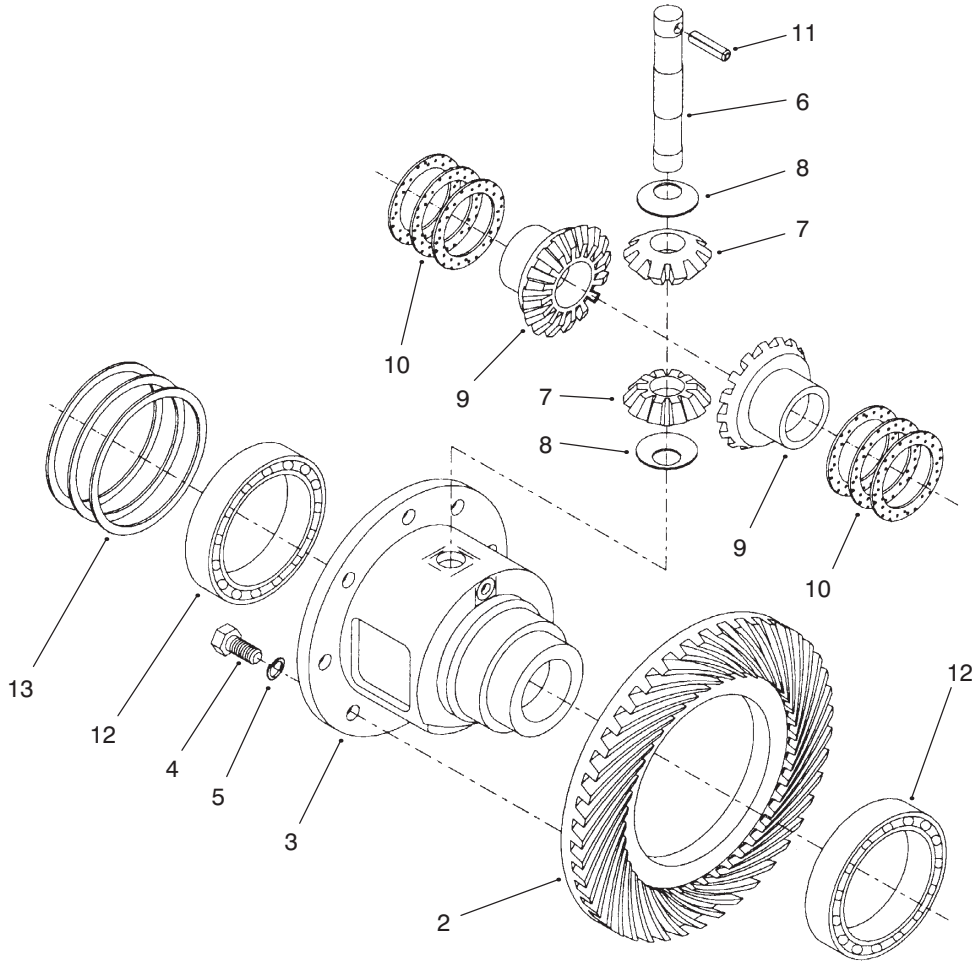
Ref. No.	Part No.	Description	No. Used
7		Bearing	1
8	76−7000	Ring − Retaining	2
9	76−6950	Race − Thrust	1
10	76−6960	Bearing − Thrust	1
11	100−2553	Seal−Shaft	1
12	100−2554	Shaft − Drive	1
13	76−7010	Ring − Retaining	1
14	76−6910	Rotating Assembly	1



REAR AXLE ASSEMBLY NO. 95–7500
BEVEL PINION SHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	100–2555	Pinion–Spiral Bevel (Incl. Gear–43 Spiral Bevel)	1
2	99–7570	Bearing–Taper Roller	2
3	95–7534	Case–Bearing	1
4	99–7571	O–Ring	2
5	99–7572	Collar–Oil Seal	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

*Not Illustrated

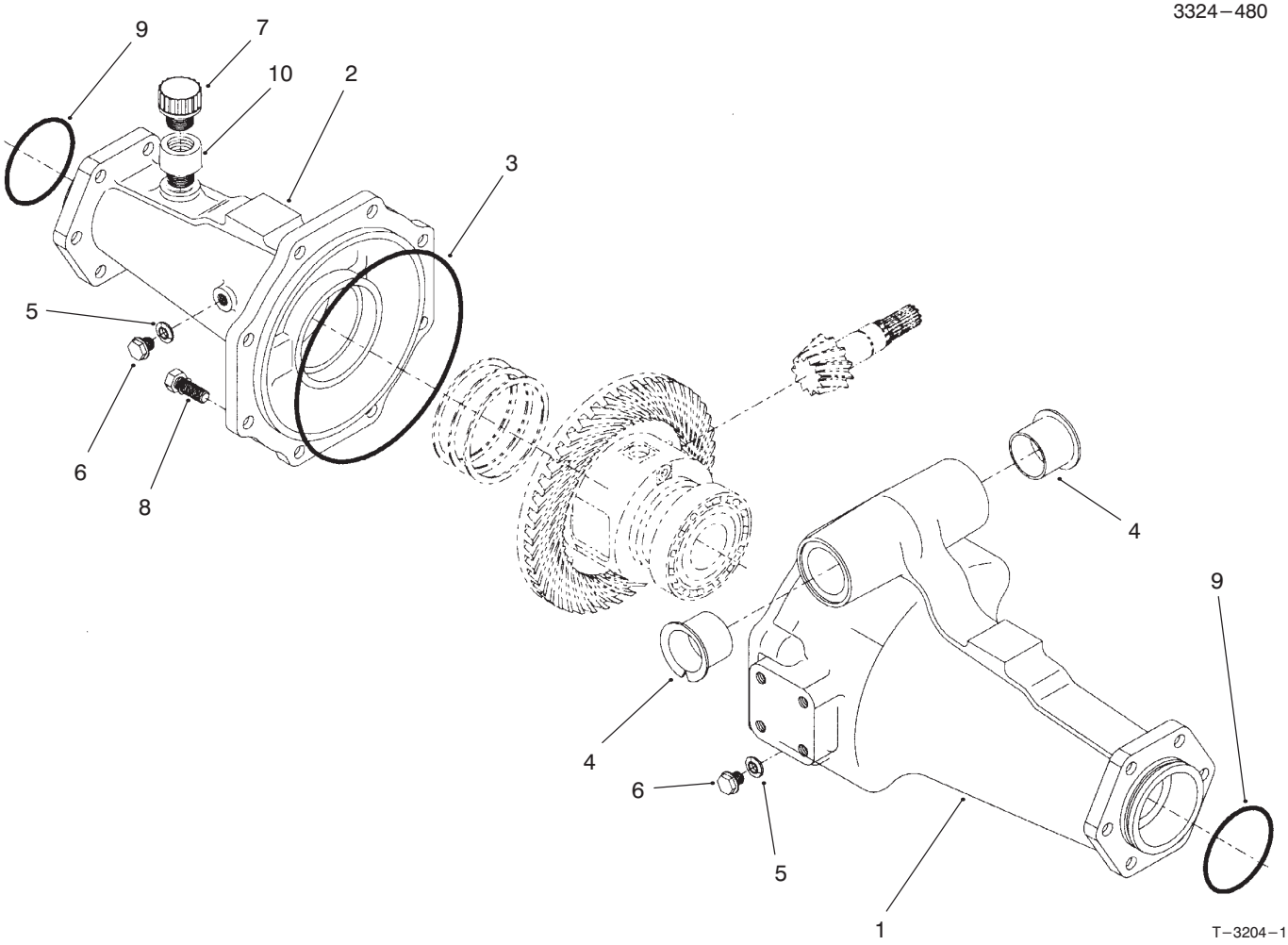


T−3203−1

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−43 Spiral Bevel (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−Differential Pinion	1
7	99−7579	Pinion−Differential	2
8	99−7580	Washer−Differential Pinion	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

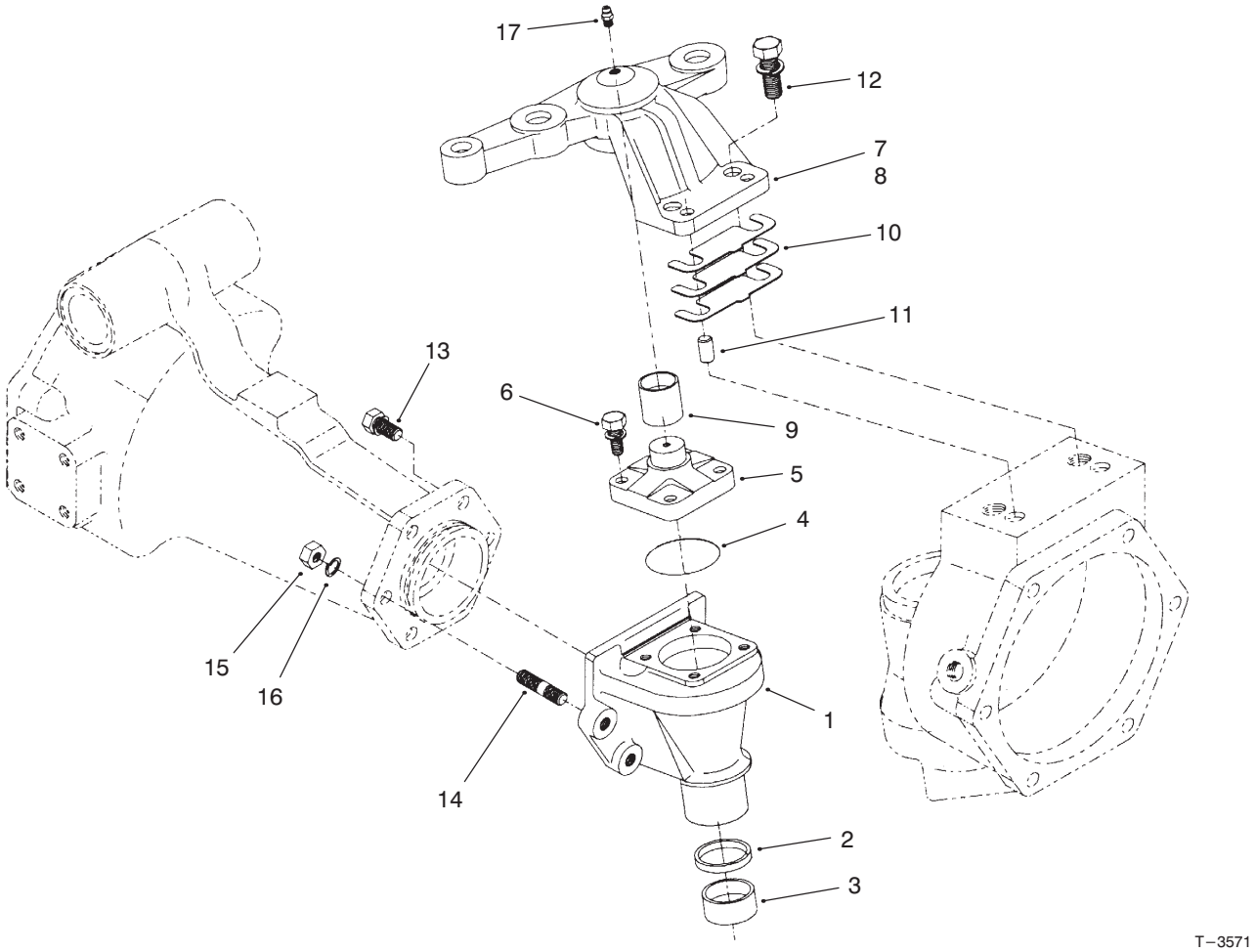
*Not Illustrated



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	Assembly–Oil Plug	1
8	99–7592	Bolt	8
9	99–7593	O–Ring	2
10	104-2377	Extension–Vent	1

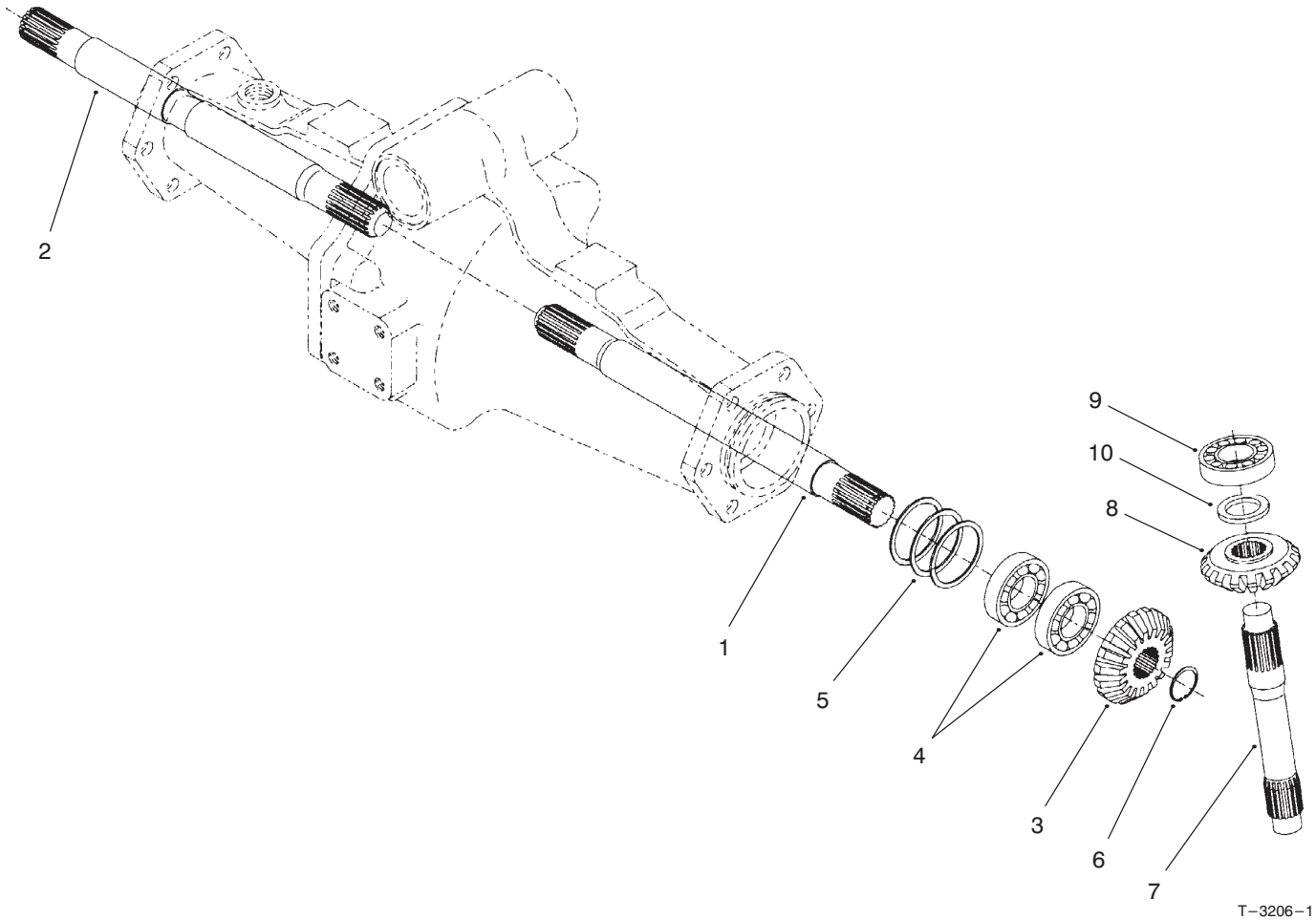


REAR AXLE ASSEMBLY NO. 95–7500 (Continued)
BEVEL GEAR CASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	95–7538	Case–Bevel Gear	2
2	100–2557	Seal–Oil	2
3	104-2378	Bushing	2
4	104-2372	Gasket	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	99–7598	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



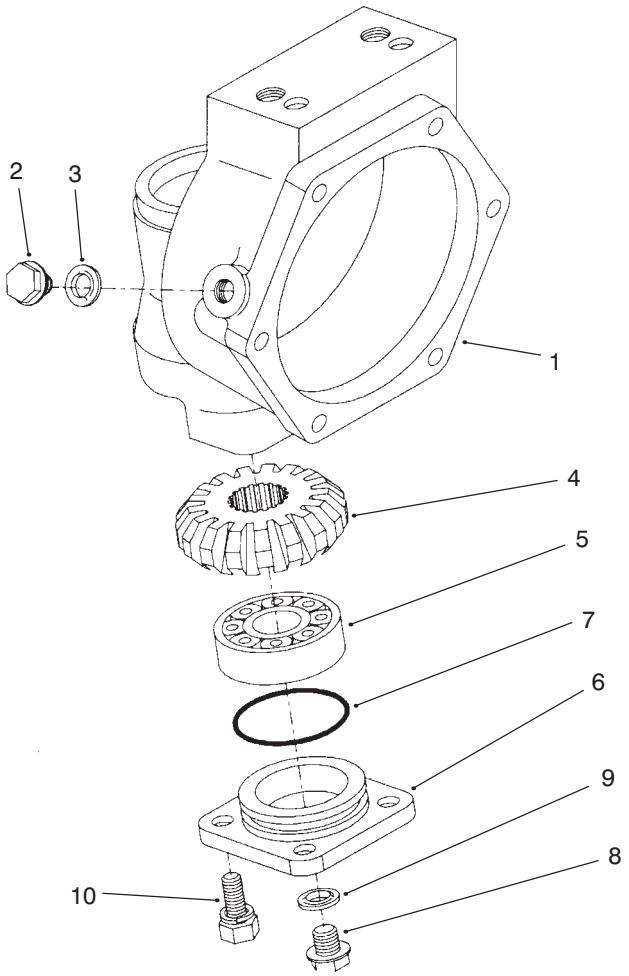
T–3206–1

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–Bevel Gear	2
8	95–7519	Gear–17 Bevel	2
9	99–7532	Bearing–Taper Roller	2
10	99–7558	Collar	2

*Not Illustrated

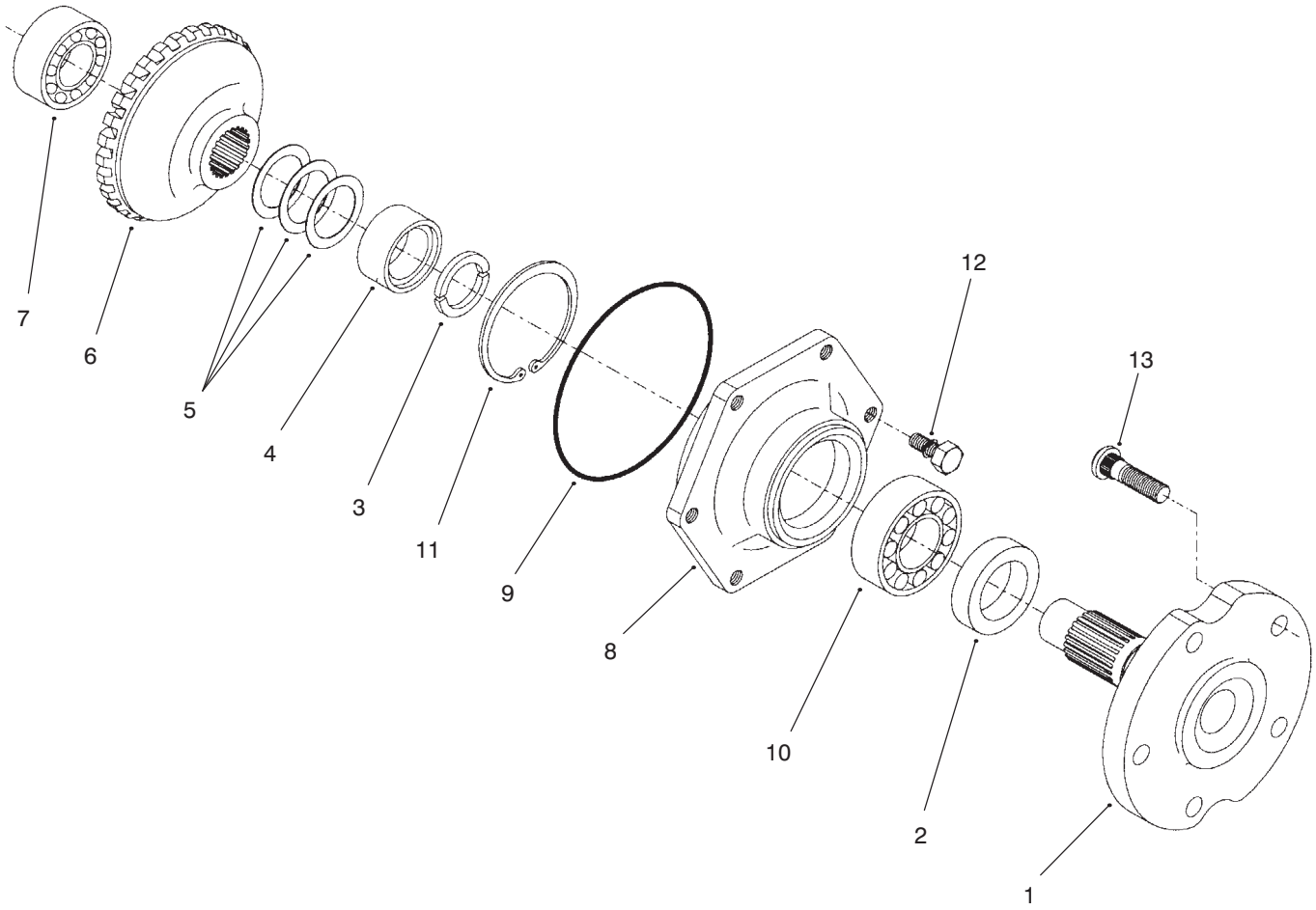


T–3207–1

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–Taper Roller	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

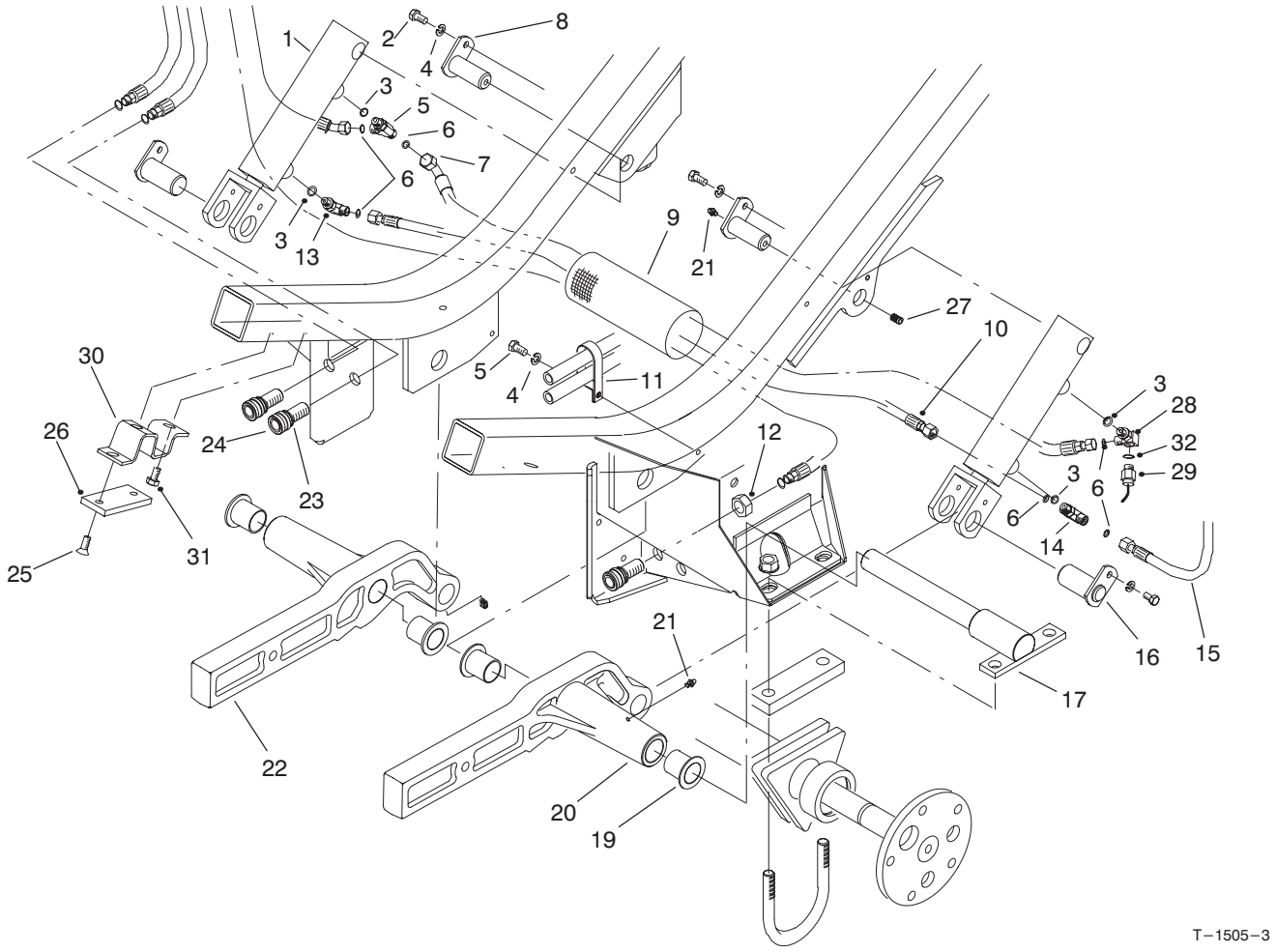


T−3108−1

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
7	99−7534	Bearing−Double Ball	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



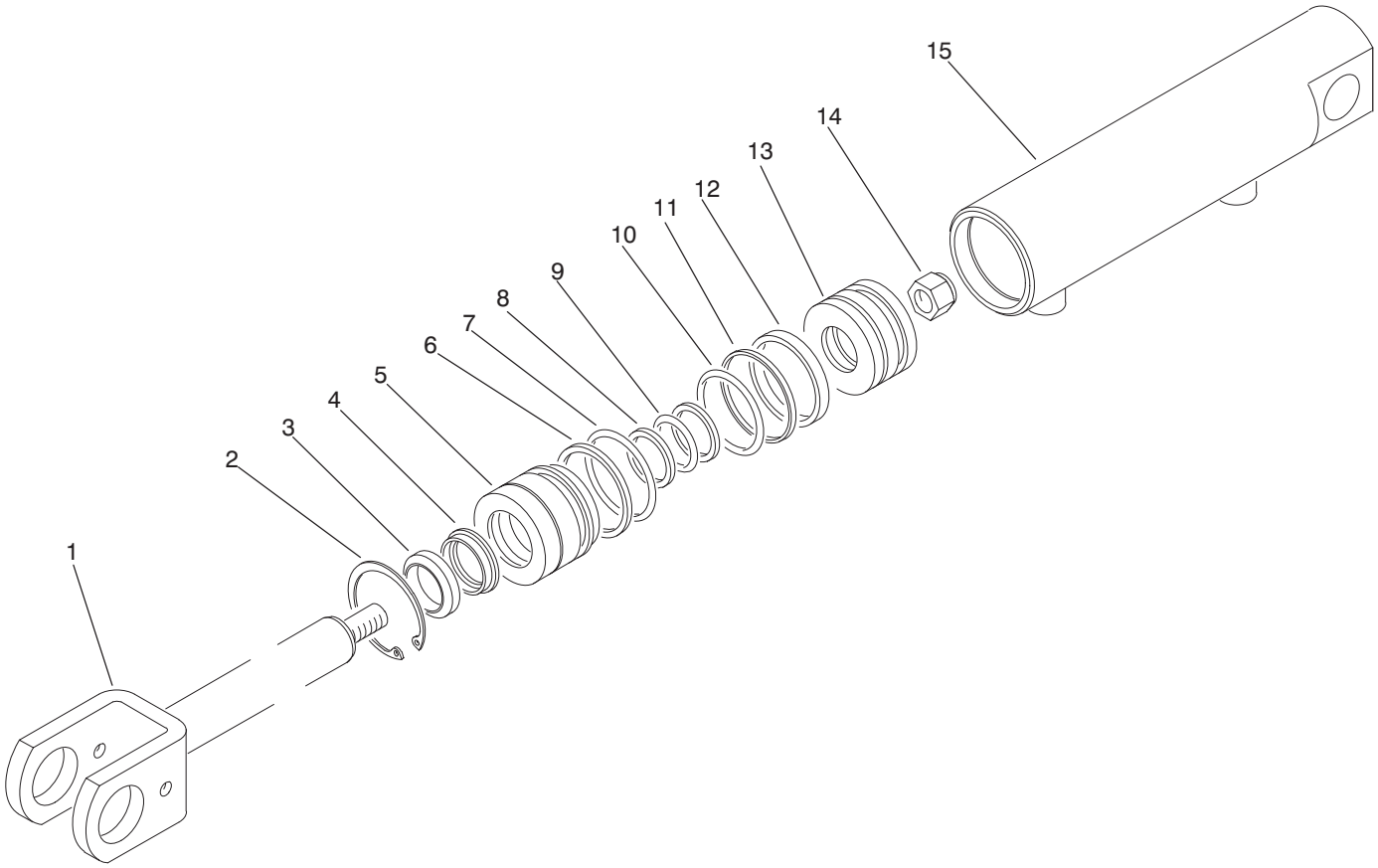
T−1505−3

LIFT ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	86−5580	Cylinder − Hydraulic	2
2	322−2	Screw − Cap Hex. Hd.	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	Assembly − Hose	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)	1
14	340−125	Fitting − Hydraulic Tee (Incl. Ref. #3 & 6)	1
15	86−3170	Hose Assembly	1
16	88−1190	Pin − Pivot	2

Ref. No.	Part No.	Description	No. Used
17	86-2790-03	Pin − Pivot L.H.	1
*	88-1200-03	Pin − Pivot R.H.	1
19	68−6480	Bushing − Flange	4
20	84-0730-03	Arm − Lift, L.H.	1
21	302−5	Fitting − Grease	6
22	86-5890-03	Arm − Lift, R.H.	1
23	237−79	O−Ring	3
24	86−5450	Coupler − Hydraulic (Incl. Ref. #23)	3
25	32108−58	Screw − Machine Flat Hd.	4
26	69−9300	Pad − Bumper	2
27	3247−4	Screw − Set	2
28	93−7217	Fitting − Hydraulic (Incl. Ref. #3 & 6)	1
29	94−8022	Switch − Pressure (Incl. Ref. #32)	1
30	93-7204-03	Mount − Pad	2
31	32104−6	Screw − Cap Hex.	4
32	237−42	Seal − O−Ring	1

*Not Illustrated



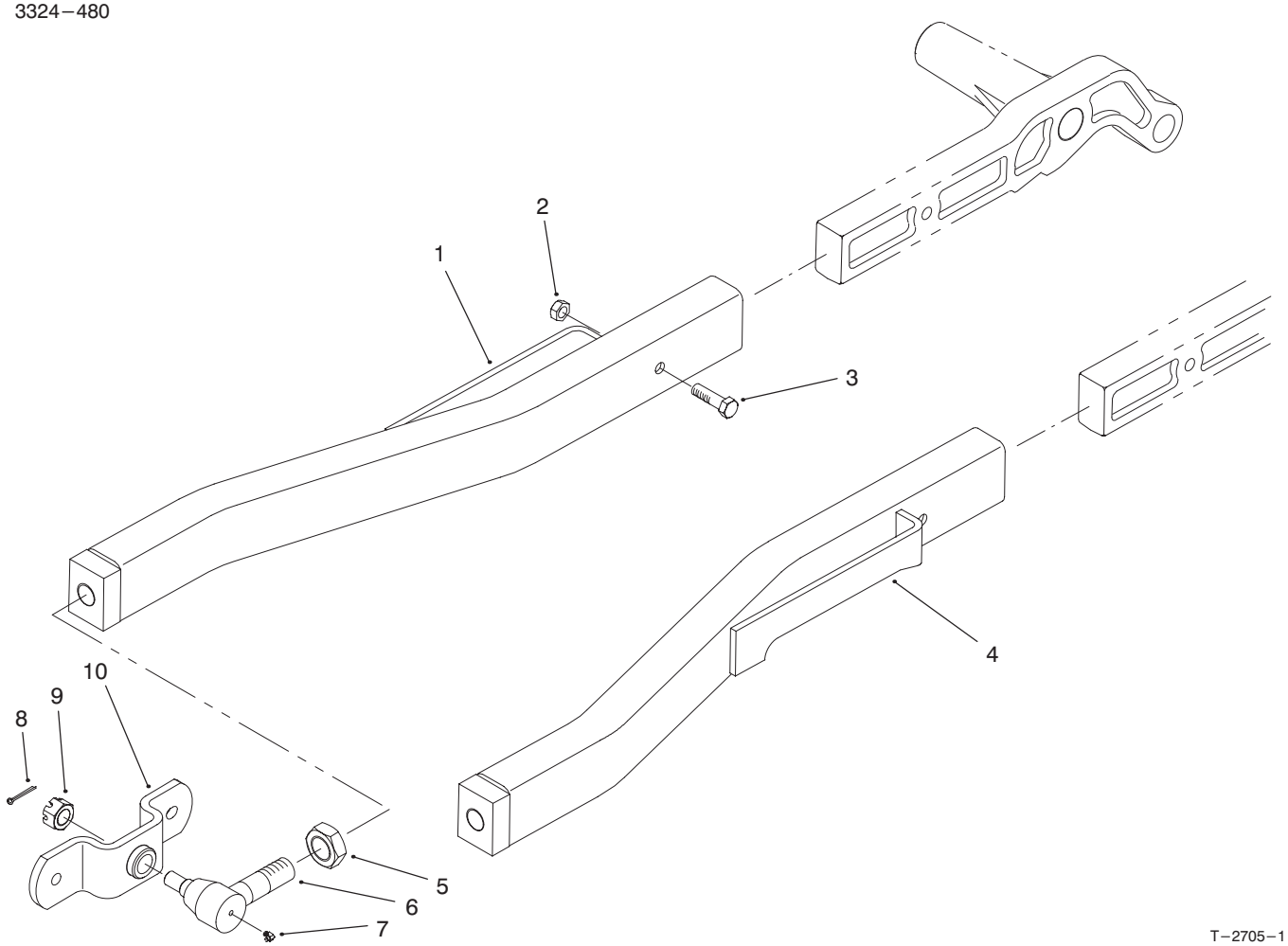
T–1490–1

HYDRAULIC CYLINDER NO. 86–5580

Ref. No.	Part No.	Description	No. Used
1	88–3620	Assembly – Rod	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	Assembly – Barrel	1
*	88–3640	Kit – Seal (Incl. Ref. #2–4 & 6–12)	1

*Not Illustrated

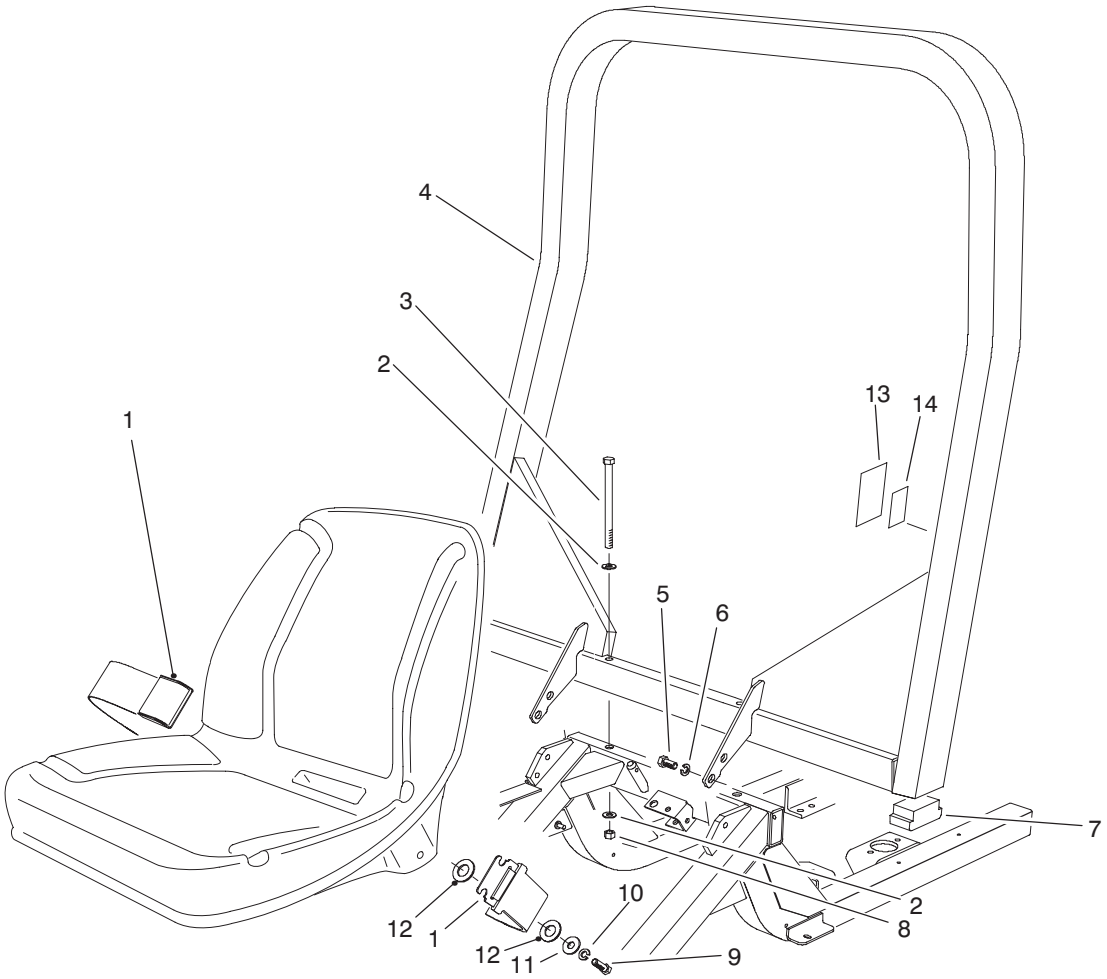


T−2705−1

CARRIER FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	86-2280-01	Carrier Tube Assembly − RH	1
2	3296−23	Nut − Hex. Lock	2
3	325−11	Screw − HH	2
4	86-2320-01	Carrier Tube Asembly − LH	1
5	21−3000	Nut − Jam	2

Ref. No.	Part No.	Description	No. Used
6	86-8100-01	Ball Joint	2
7	302−60	Fitting − Lube	2
8	3272−12	Pin − Cotter	2
9	32136−2	Nut − Hex. Slotted	2
10	69-7290-01	Ball Joint Mount Assembly	2



T−2249−2

R.O.P.S. ASSEMBLY

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 Hex. Hd.	2
4	76-9370-03	Bar − R.O.P.S.	1
5	325−2	Screw − Cap Hex. Hd.	4
6	3253−7	Washer − Lock	4
7	82−5370	Foam − R.O.P.S. Bar	2
8	3296−25	Nut − Lock	2

Ref. No.	Part No.	Description	No. Used
9	3212−5	Screw − Cap Hex. Hd.	2
10	3253−6	Washer − Lock	2
11	3256−5	Washer − Flat	2
12	3256−28	Washer − Flat	2
13	92−6073	Decal − Clear	1
14	92−2587	Decal − R.O.P.S.	1
*		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

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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 4WD 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 4WD, 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 4WD.
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								

MAINTENANCE RECORD

Date								