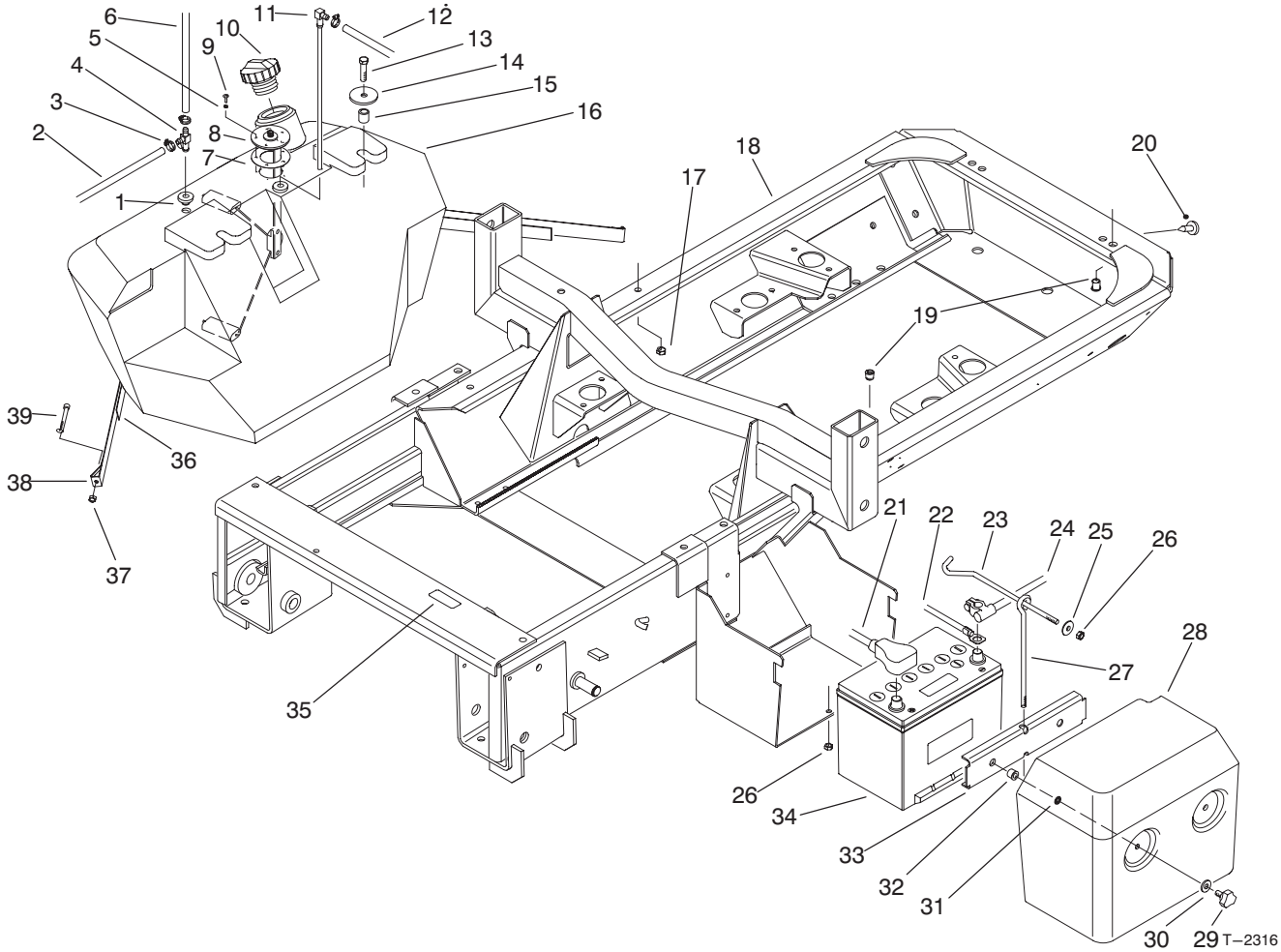
FORM NO. 3317–919 Rev. A

TORO®

MODEL NO. 30301–60001 & UP
MODEL NO. 30302–60001 & UP

PARTS CATALOG

GROUNDSMASTER® 3000D 2WD/4WD
TRACTION UNIT



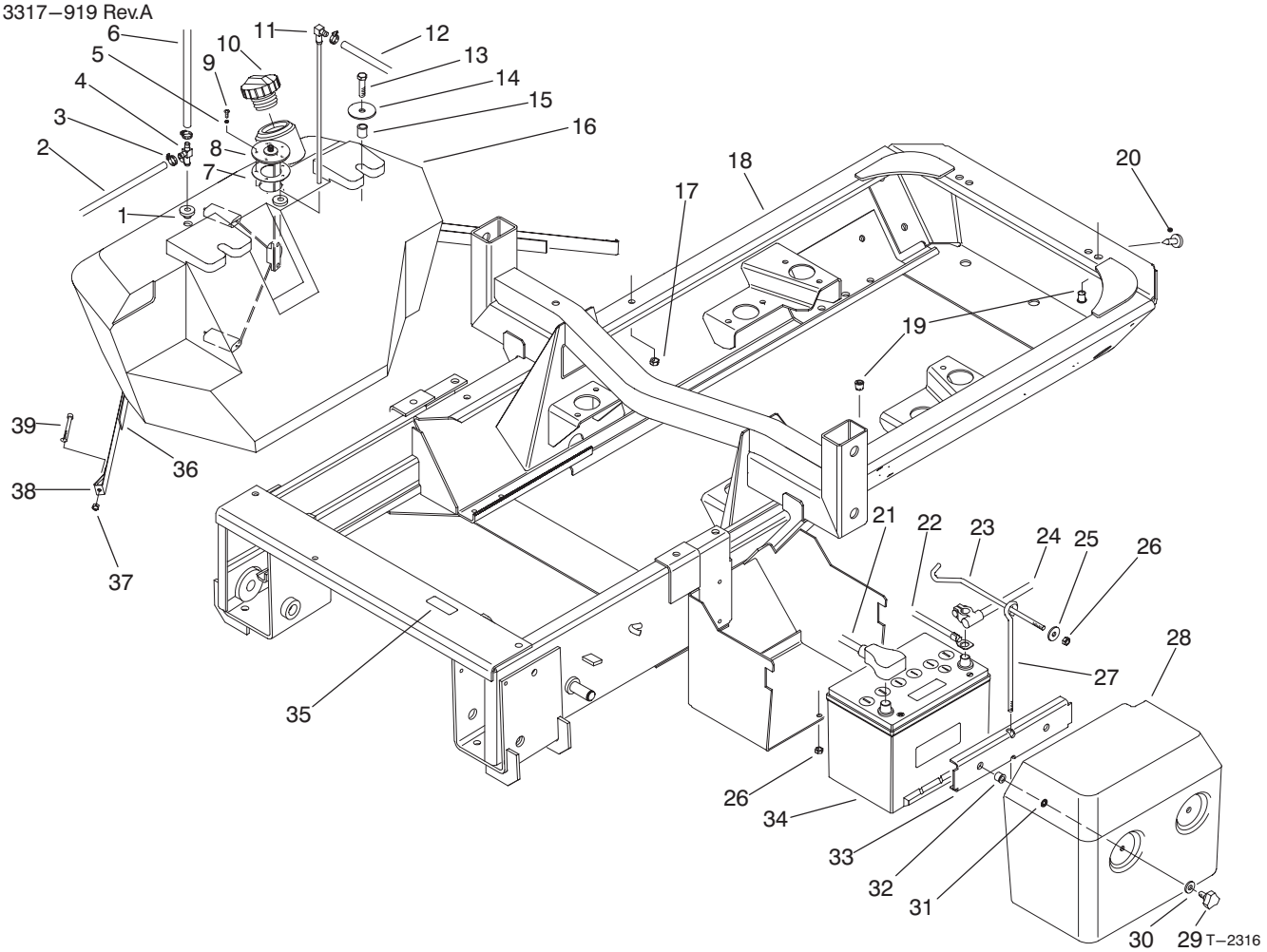
FRAME, FUEL TANK & BATTERY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	46–6560	Bushing	2
2	93–5483	Hose – Fuel	1
3	2412–108	Clamp – Hose	3
4	93–5119	Fitting	1
5	3253–15	Washer – Lock	5
6	93–5485	Hose – Fuel	1
7	62–7650	Gasket	1
8	92–9267	Sender – Fuel	1
9	32122–24	Screw	5
10	93–3102	Cap – Diesel Fuel	1
11	93–5453	Stand – Pipe	1
12	93–5484	Hose – Fuel	1
13	33105–040	Screw – HHF	2
14	83–1040	Washer – Rebound	2
15	93–5384	Spacer	2
16	93–5040	Tank – Fuel	1

Ref. No.	Part No.	Description	No. Used
17	33025–00	Nut – Lock	2
18	93–5628	Frame (Incl. Ref. #19 & 35)	1
19	93–5450	Nut – Clinch	7
20	237–37	Bumper – Rubber	2
21	43–4031	Cable – Positive	1
22	18–2770	Cable – Ground	1
23	93–5118	Rod – Battery	1
24	93–5418	Cable – Battery, Negative	1
25	3256–82	Washer – Flat	1
26	33024–00	Nut – Lock	2
27	93–5117	Rod – Threaded	1
28	93–5120	Cover – Battery	1
29	77–3620	Retainer – Cover	2
30	3256–3	Washer – Flat	2
31	32151–72	Ring – Retaining	2

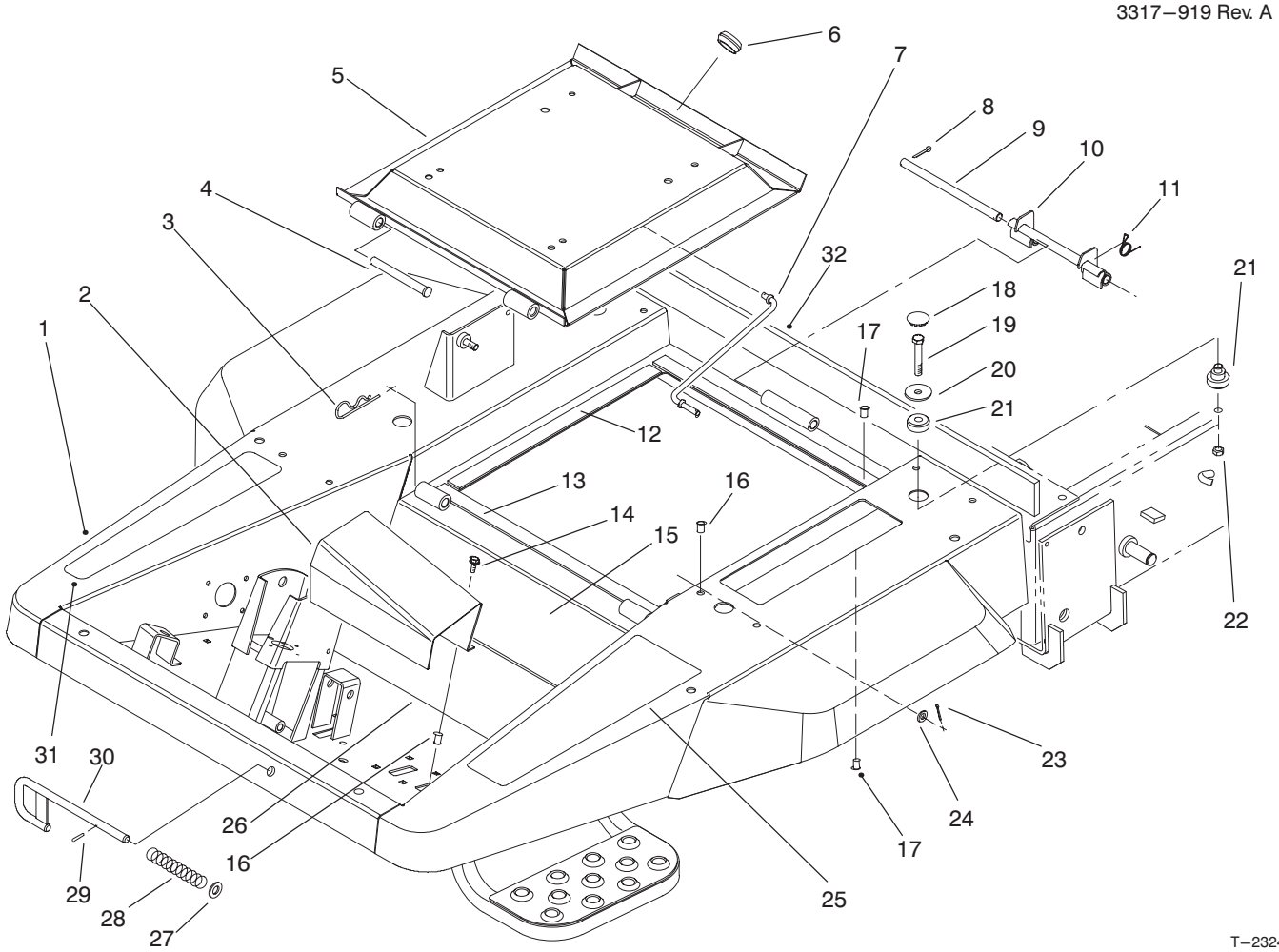
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TPS



FRAME, FUEL TANK & BATTERY ASSEMBLY (Continued)

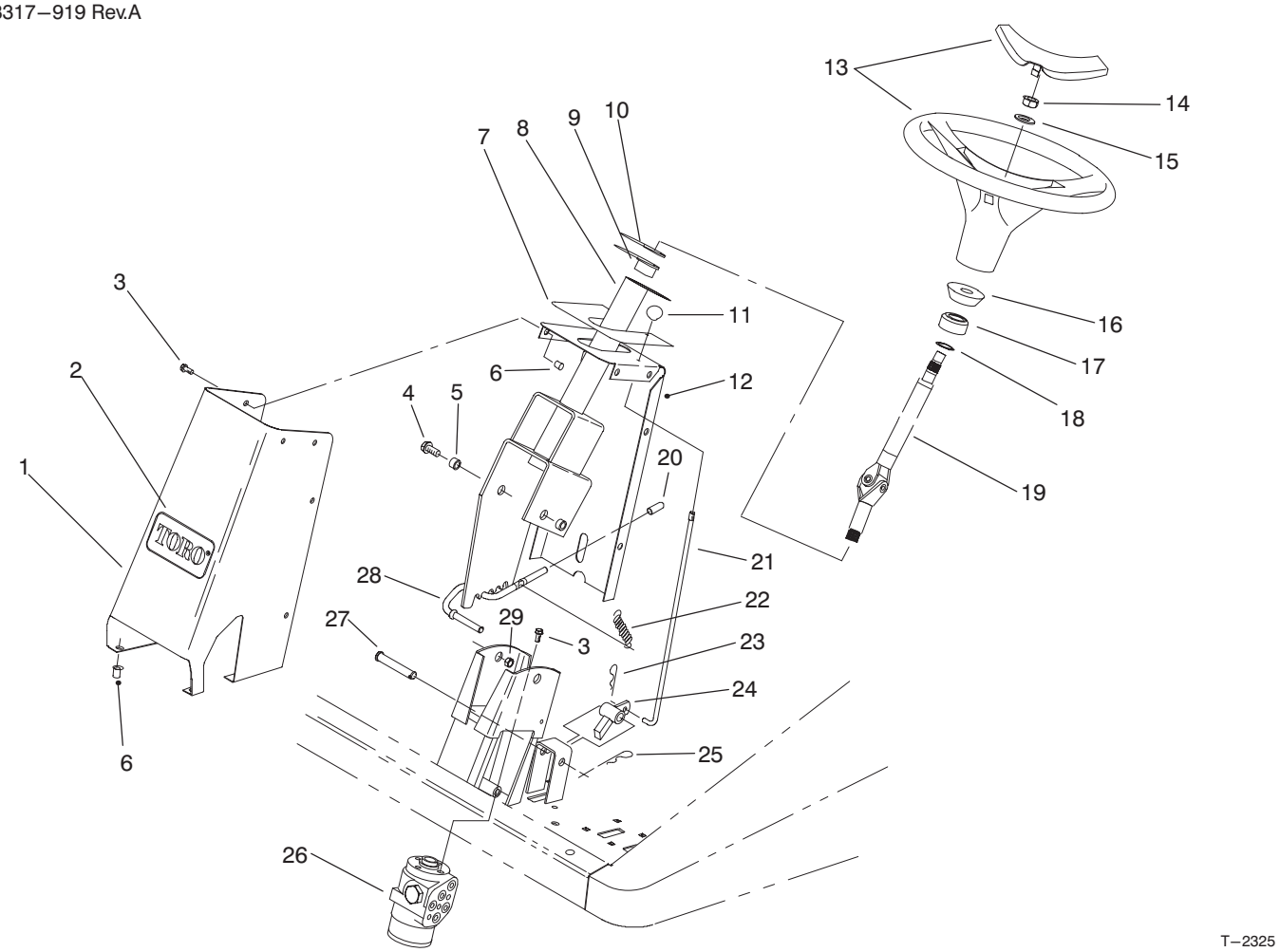
Ref. No.	Part No.	Description	No. Used
32	32148–9	Insert – Threaded	2
33	93–5116	Bracket – Battery	1
34		Battery	1
35	85–4730	Decal – Hydraulic Oil Only	1
36	93–5273	Strap – Felt	1
37	32146–17	Nut – Hex, Lock	1
38	93–5215	Strap	1
39	3274–54	Screw – Cap, Hex. Soc. Hd.	1



FRONT FRAME & SEAT BASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5627	Platform (Incl. Ref. #15–17, 25–26, & 31)	1
2	93–5310	Cover – Tubes	1
3	3290–355	Pin – Hair, Cotter	2
4	93–5343	Pin – Clevis	2
5	93–5340	Base – Seat	1
6	240–5	Grommet	1
7	93–5338	Rod – Prop	1
8	3272–11	Pin – Cotter	2
9	93–5366	Shaft – Latch	1
10	93–5363	Latch	1
11	93–5367	Spring – Torsion	1
12	93–5334	Strip – Foam, Seat	2
13	93–5335	Strip – Foam, Seat	2
14	33103–016	Screw – HHF	2
15	93–5348	Abrasive – Floor	1

Ref. No.	Part No.	Description	No. Used
16	93–5447	Nut – Clinch	12
17	93–5449	Nut – Clinch	9
18	93–3094	Plug – Cap	4
19	33115–060	Screw – HH	4
20	93–5308	Washer – ISO Mount	4
21	93–5307	Mount – ISO	4
22	33025–00	Nut – Lock	4
23	3272–7	Pin – Cotter	2
24	3256–23	Washer – Flat	2
25	93–5507	Abrasive – Platform	1
26	93–5349	Abrasive – Floor	1
27	3256–69	Washer – Flat	1
28	28–0570	Spring – Compression	1
29	32121–79	Pin – Roll	1
30	93–5605	Rod	1
31	92–5772	Decal – Footrest, RH	1
32	93–5255	Strip – Foam	1

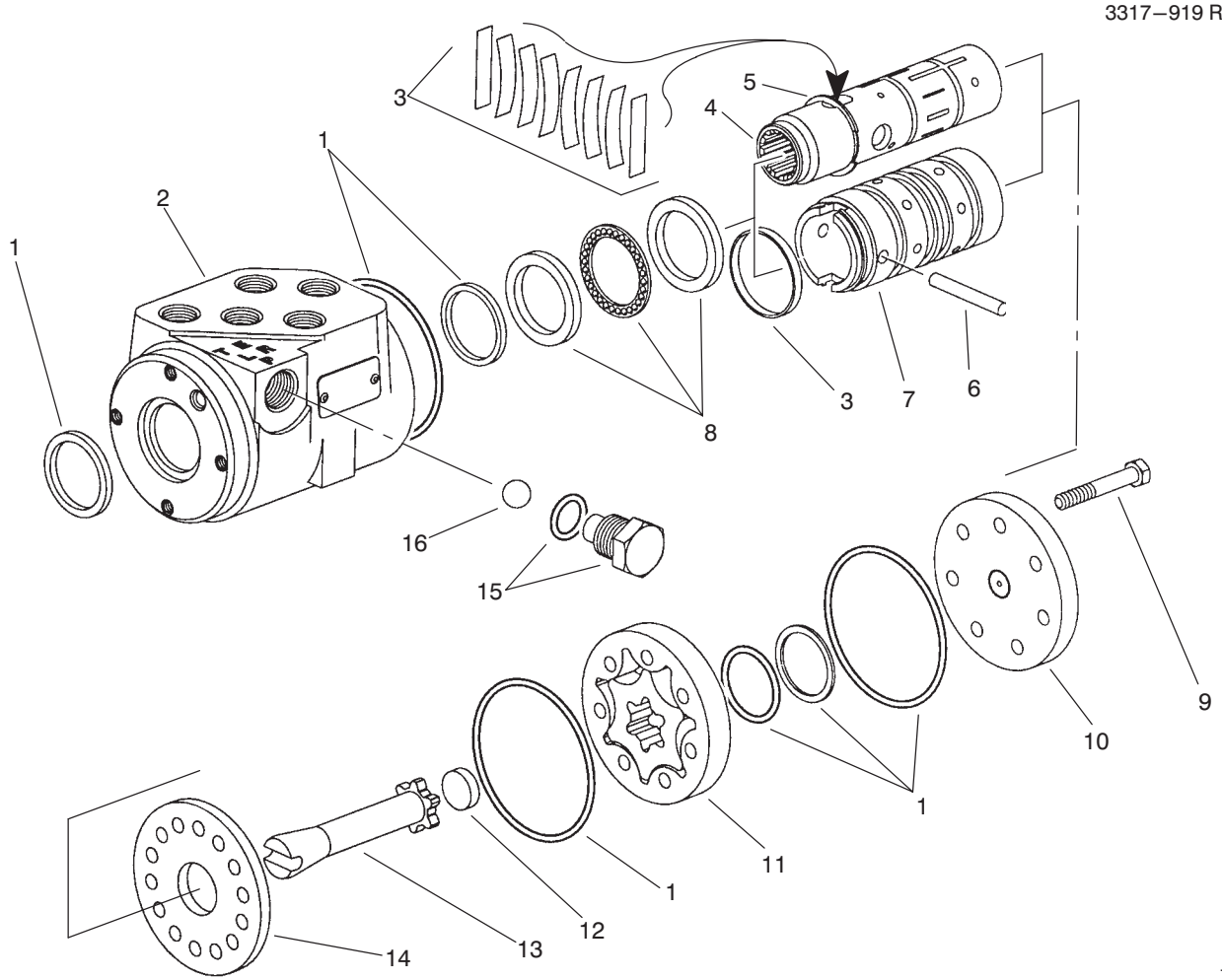


T–2325

STEERING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5633	Housing –Tower (Incl. Ref. #2 & 6)	1
2	67–1300	Decal – Tower	1
3	33103–016	Screw – HHF	16
4	33105–020	Screw – HHF	2
5	93–5204	Spacer	2
6	93–5447	Nut – Clinch	12
7	93–5424	Decal – Tower	1
8	93–5205	Column – Steering	1
9	256–132	Bushing – Flange	2
10	256–260	Washer	2
11	93–5312	Knob	1
12	93–5629	Cover – Tower (Incl. Ref. #6 & 7)	1
13	93–5212	Wheel – Steering	1
14	93–5590	Nut	1

Ref. No.	Part No.	Description	No. Used
15	3256–27	Washer – Flat	1
16	93–5429	Collar – Foam	1
17	93–5439	Seal – Steering	1
18	32151–29	Ring – Retaining	2
19	93–5428	Asm. – Shaft, Steering	1
20	93–5446	Cap – Vinyl	1
21	93–5309	Rod – Brake, Parking	1
22	93–5262	Spring – Extension	1
23	3272–5	Pin – Cotter, Hair	1
24	93–5276	Pawl – Brake	1
25	3272–12	Pin – Cotter, Hair	1
26	93–5165	Steering Control Unit	1
27	283–5	Pin – Clevis	1
28	93–5208	Rod – Tilt	1
29	33005–00	Nut – HF	2



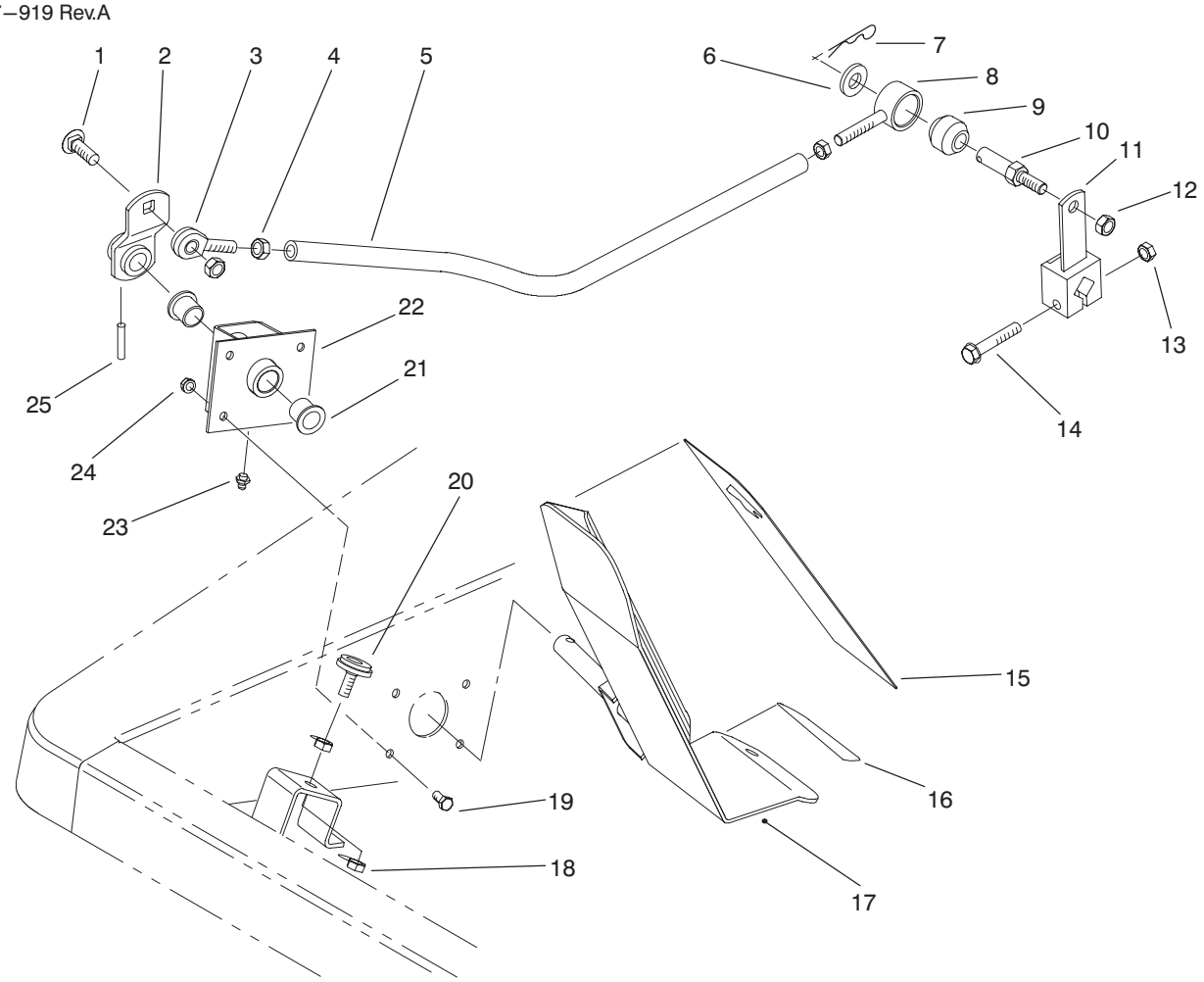
T–2312

STEERING CONTROL VALVE ASM. 93–5165

Ref. No.	Part No.	Description	No. Used
1	94–4099	Kit – Seal	1
†2		Housing	1
3	94–4095	Kit – Spring, Centering	1
†4		Spool	1
5	94–4098	Ring – Retaining	1
6	94–4094	Pin	1
†7		Sleeve	1
8	94–4096	Kit – Bearing	1

Ref. No.	Part No.	Description	No. Used
9	94–4088	Screw – Cap	7
10	94–4089	Cap – End	1
11	94–4090	Gerotor	1
12	94–4091	Spacer	1
13	94–4093	Drive	1
14	94–4092	Plate – Wear	1
15	94–4097	Asm. – Plug	1
16	94–4100	Ball	1

† Not Serviced Separately.

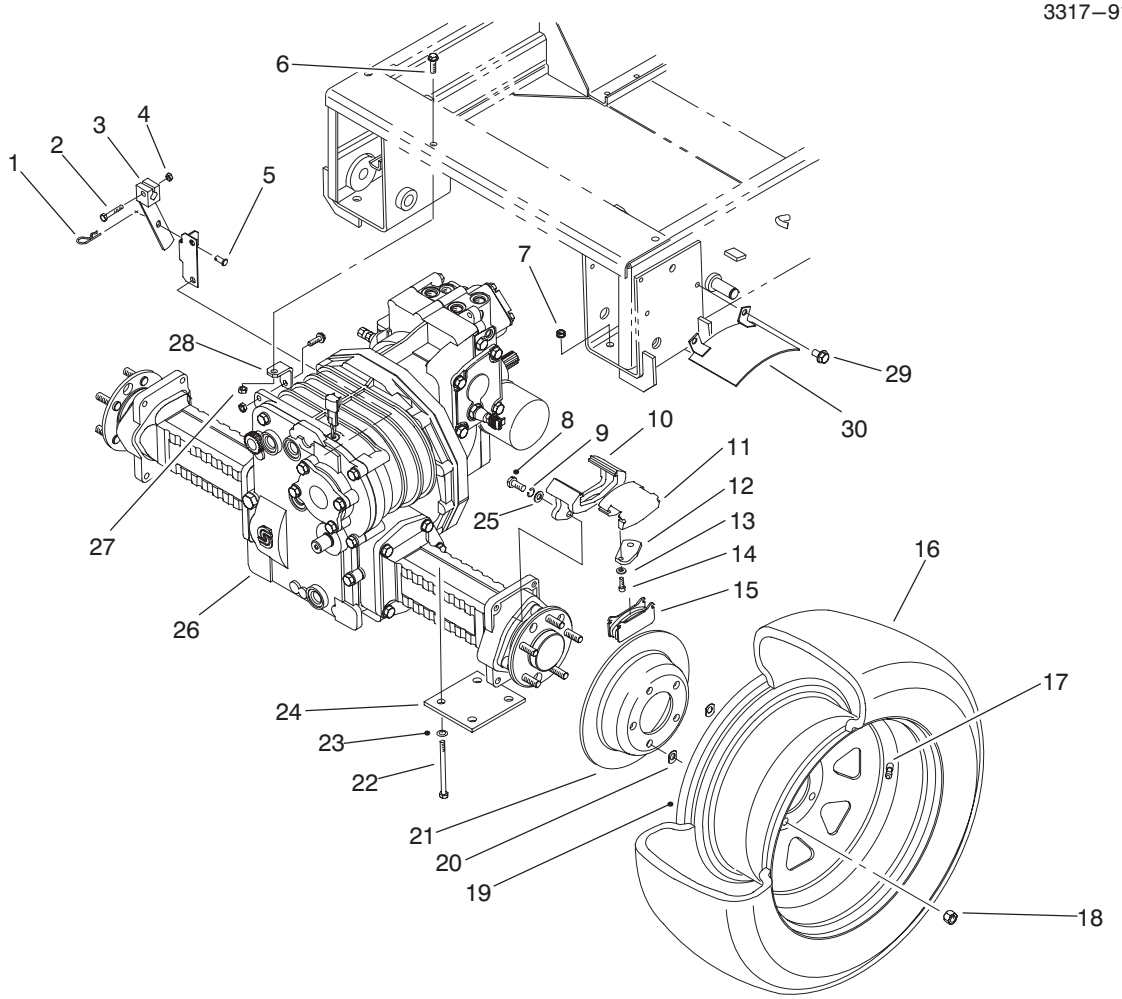


T–2326

TRACTION PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3231–22	Bolt – Carriage	1
2	93–5137	Lever – Traction	1
3	2411–36	Bearing – Rod End	1
4	3220–3	Nut – Jam	2
5	93–5173	Tube – Control	1
6	3256–26	Washer – Flat	1
7	3290–355	Pin – Cotter, Hair	1
8	93–5486	Hub	1
9	23–2270	Bushing – Rubber	1
10	93–5488	Post – Hub	1
11	93–5175	Lever	1
12	3296–59	Nut – Lock	2
13	33024–00	Nut – Lock	1

Ref. No.	Part No.	Description	No. Used
14	33104–050	Screw – HHF	1
15	93–5347	Abrasive – Pedal	1
16	93–5368	Abrasive – Pedal	1
17	93–5133	Pedal – Traction	1
18	3217–6	Nut – Hex.	2
19	33113–016	Screw – HH	4
20	32141–36	Screw – Level	1
21	256–10	Bushing – Flange	2
22	93–5129	Bracket – Pedal	1
23	302–5	Fitting – Grease	1
24	33003–00	Nut – HF	1
25	32121–9	Pin – Roll	1



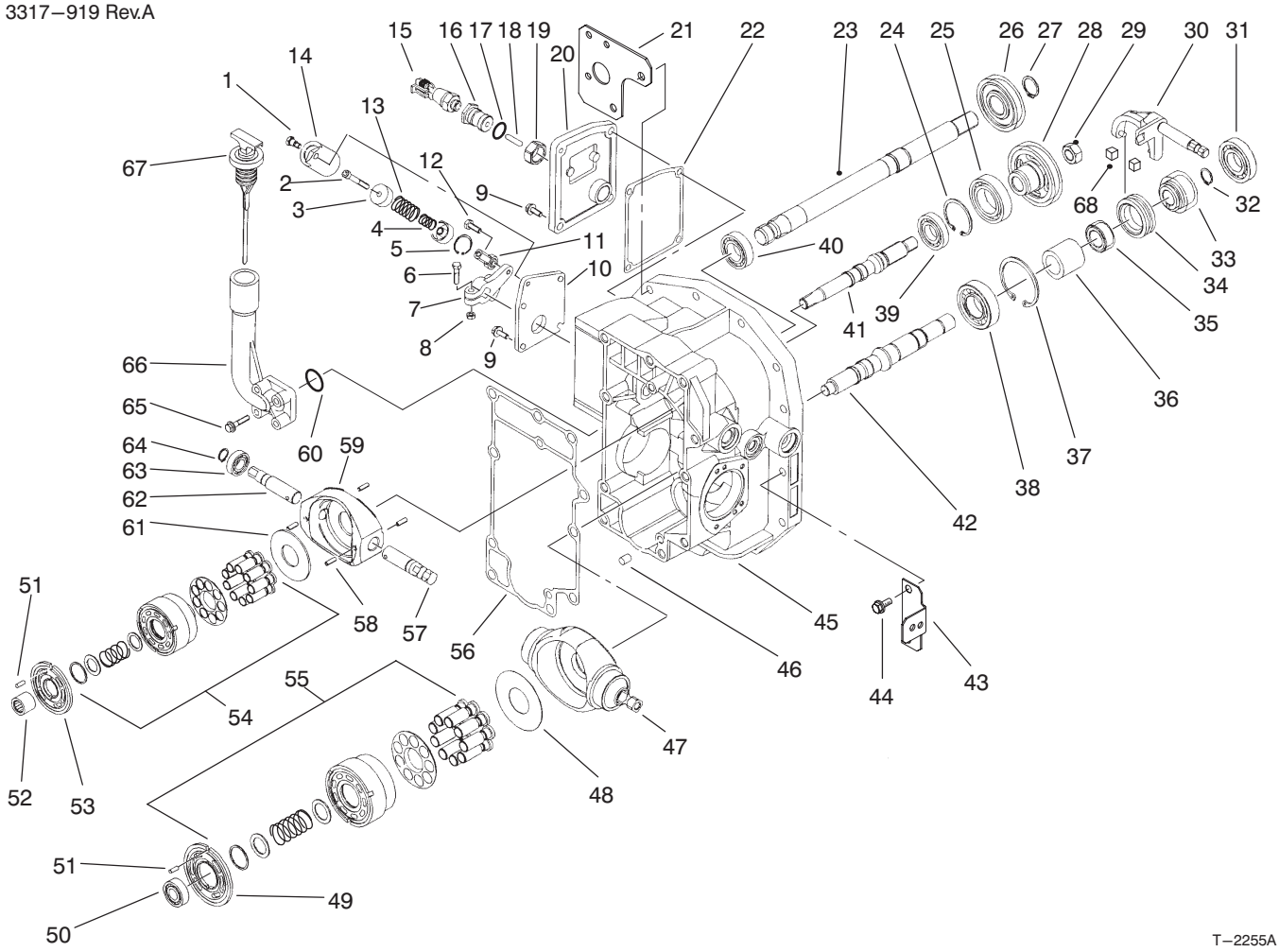
T–2327A

FRONT AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290–467	Pin – Cotter, Hair	1
2	33113–040	Screw – HH	1
3	93–5383	Lever	1
4	33023–00	Nut – Lock	1
5	283–62	Pin – Clevis	1
6	33104–025	Screw – HHF	2
7	33006–00	Nut – HF	8
8	323–44	Screw – HH	4
9	3253–5	Washer – Lock	4
10	94–4102	Bracket – Mounting	2
11	94–4104	Housing	2
12	94–4107	Lever	2
13	94–4106	Washer	2
14	94–4105	Screw	2
15	94–4103	Pad	4

Ref. No.	Part No.	Description	No. Used
16	93–5431	Tire	2
17	232–27	Valve Stem	2
18	93–5268	Nut – Lug	10
19	93–5548	Rim	2
20	21–8360	Clip – Retaining	4
21	93–5438	Rotor – Brake	2
22	33116–110	Screw – HH	8
23	3256–26	Washer – Flat	8
24	93–5036	Plate – Axle	2
25	257–9	Washer	4
26	93–5941	Axle – 2 Speed	1
27	33024–00	Nut – Lock	2
28	93–5306	Bracket – Transaxle	1
29	32144–14	Screw – HH	4
30	93–5977	Shield – Brake	2

*Not Illustrated

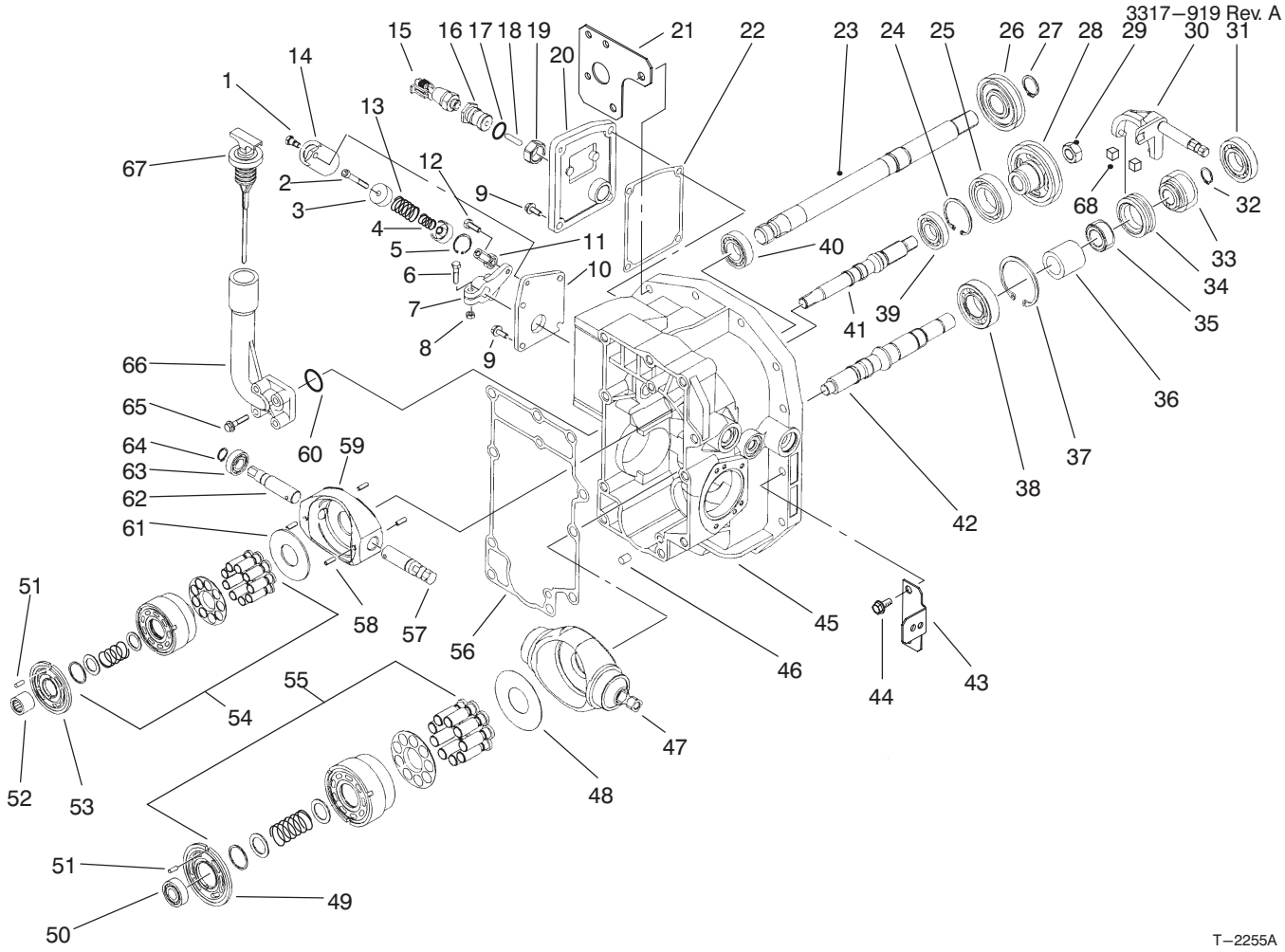


HYDRAULIC HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
†1		Screw – HH, Shoulder	1
†2		Screw – Soc. Hd.	1
†3		Seat – Spring	2
†4		Spring – Compression	1
†5		Ring – Retaining	1
6	94–3940	Screw – HH	1
†7		Handle – Return, Neutral	1
†8		Nut – Lock	1
9	94–4002	Screw – HHF	8
10	94–3929	Plate – Return, Neutral	1
†11		Rod End – Female	1
†12		Screw – HH	1
†13		Spring – Compression	1
†14		Housing – Return, Neutral	1
15	94–3966	Switch	2
16	94–4045	Adjuster – Threaded	1
17	28–3570	O–Ring	1
18	94–4046	Pin	1
19	94–4044	Nut – Hex.	1
20	94–3943	Cover – Return, Neutral	1
21	93–5171	Bracket – Counter Balance	1
22	94–3944	Gasket – Return, Neutral	1
23	94–3901	Shaft – Input	1
24	94–4029	Ring – Retaining	1
25	94–3971	Bearing – Ball	1
26	94–3903	Pinion – Drive, Pump	1

Ref. No.	Part No.	Description	No. Used
27	94–3994	Ring – Retaining	1
28	94–3905	Gear – Drive, Pump	1
29	94–3953	Nut – Lock	1
30	94–3924	Yoke – 2 Speed	1
31	28–3650	Bearing	1
32	94–3963	Ring – Retaining	1
33	94–3919	Pinion – Drive, Final	1
34	94–3908	Coupling – Gear, Change	1
35	94–3923	Coupling – 2 Speed	1
36	94–3949	Spacer – Drive, Final	1
37	94–3997	Ring – Retaining	3
38	84–0310	Bearing	1
39	94–3960	Bearing – Ball	1
40	94–3942	Bearing – Ball	1
41	94–3604	Shaft – Pump	1
42	94–3906	Shaft – Motor	1
43	93–5381	Bracket	1
44	94–4004	Screw – HHF	23
45	94–4077	Housing – Variable Motor	1
46	94–3975	Pin	2
47	94–4058	Swashplate – Variable	1
48	75–0400	Plate – Thrust	1
49	94–3921	Plate – Valve, Motor	1
50	94–3956	Bearing – Ball	1
51	94–3974	Pin	2
52	94–3957	Bearing – Needle	1

† Not Serviced Separately.

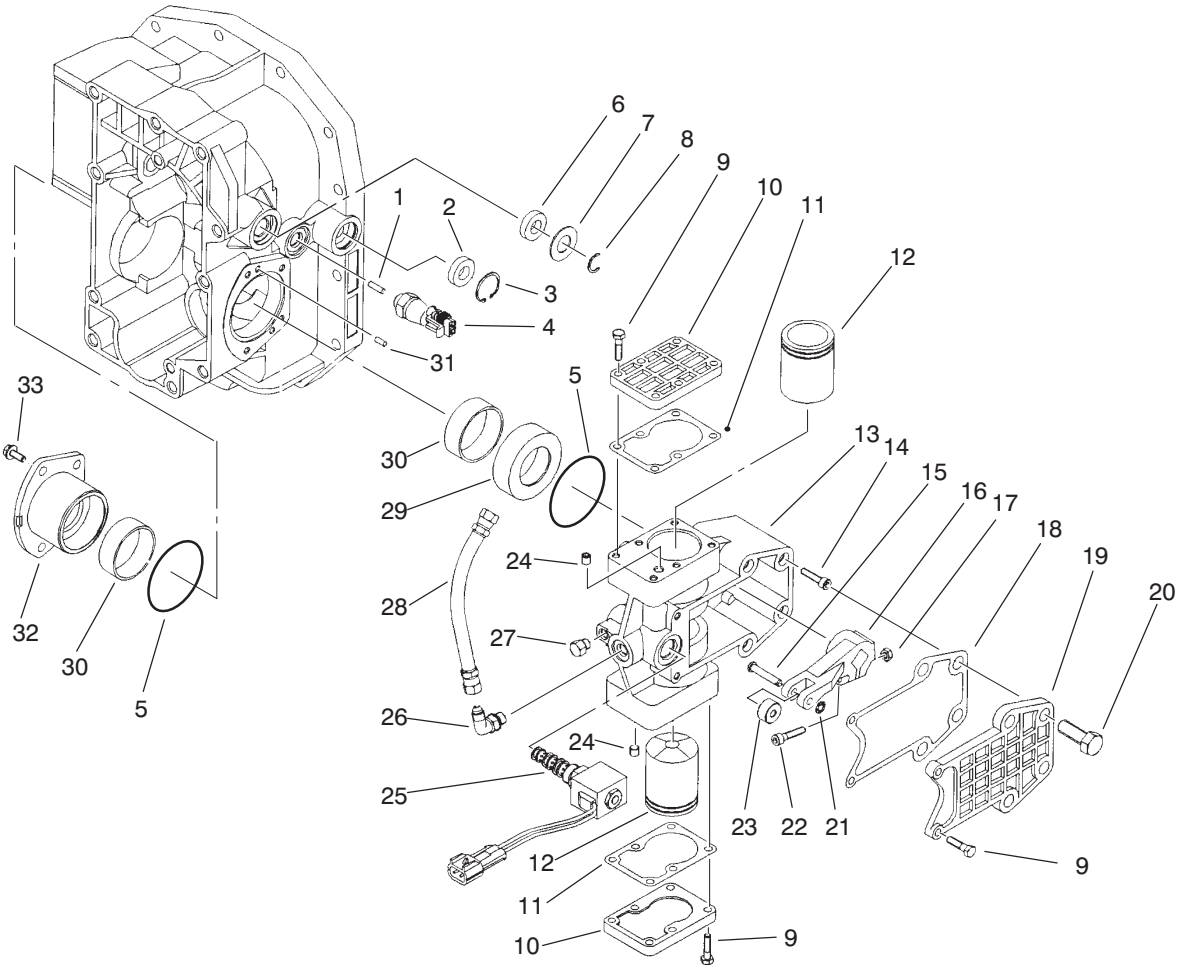


HYDRAULIC HOUSING ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
53	94–3973	Plate – Valve, Pump	1
54	48–1800	Kit – Block, Cylinder	1
55	75–0470	Kit – Block, Cylinder	1
56	94–3992	Gasket – Center Section	1
57	94–3946	Shaft – Trunnion	1
58	28–3620	Pin	4
59	94–3967	Swashplate – Pump, Variable	1
60	94–4051	O–Ring	1
61	94–3978	Plate – Thrust	1
62	94–3934	Shaft – Trunnion	1
63	94–4040	Bearing – Ball	1

Ref. No.	Part No.	Description	No. Used
64	94–3932	Ring – Retaining	1
65	94–4050	Screw – HHF	4
66	94–4048	Housing – Dipstick	1
67	94–4049	Dipstick	1
68	93–5972	Guide – Slot	2
*	93–5969	Asm. – Return, Neutral (Incl. Ref. #1–5 & 11–14)	1
*	93–5970	Kit – Arm, Neutral Return (Incl. Ref. #7 & 8)	1
*	93–5971	Kit – Seal, Overhaul	1

*Not Illustrated

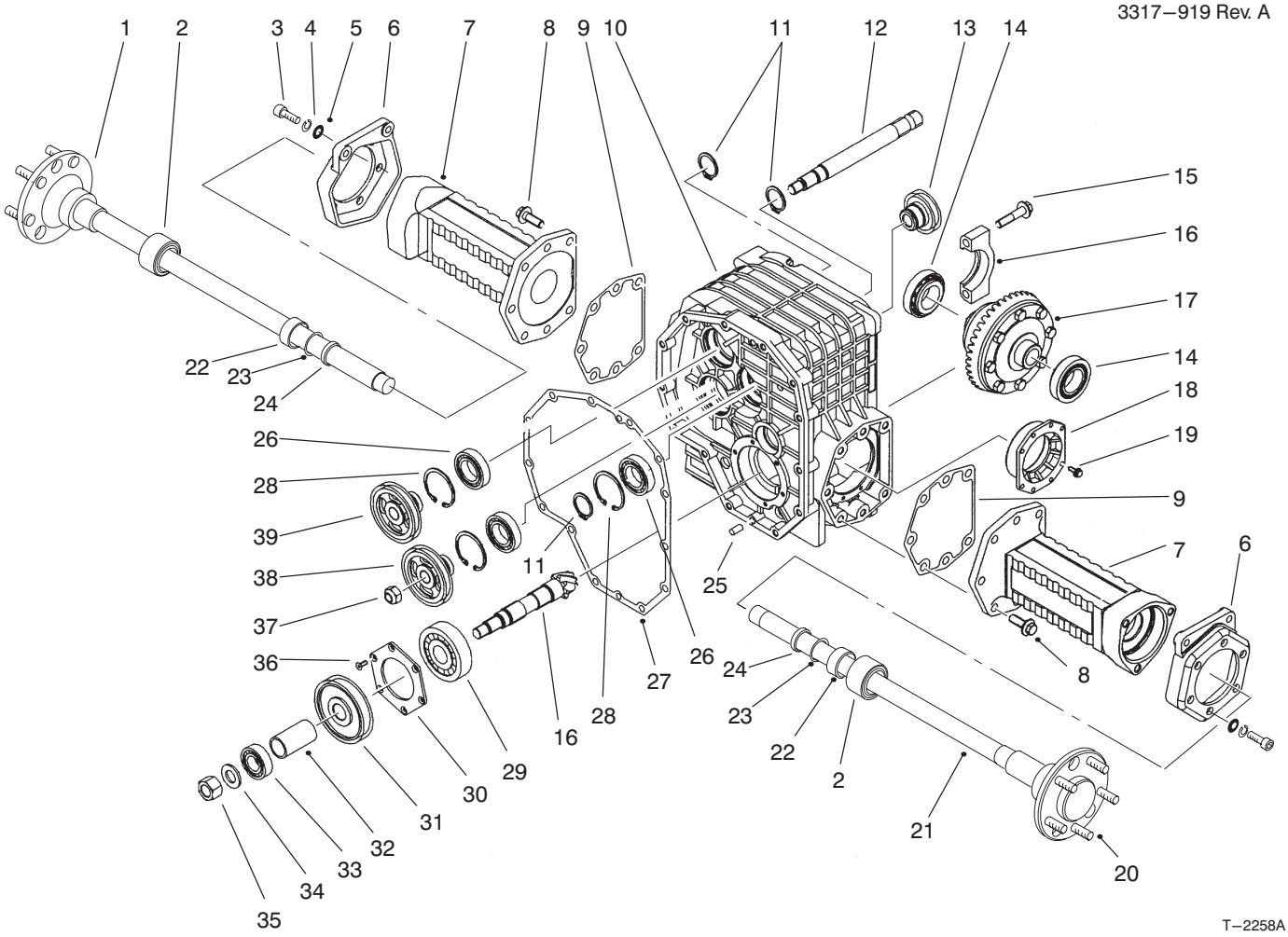


HYDRAULIC HOUSING ASSEMBLY – CONTROL

Ref. No.	Part No.	Description	No. Used
1	94–4028	Roller – Needle	1
2	94–3939	Seal – Lip	1
3	94–3962	Ring – Retaining	1
4	94–3966	Switch	2
5	94–4059	O–Ring	2
6	25–3210	Seal	1
7	25–2510	Washer	1
8	94–3945	Ring – Retaining	1
9	94–3940	Screw – HH	14
10	94–4063	Cover – Servo	2
11	94–4064	Gasket – Cover	2
12	94–4070	Piston – Control	2
13	94–4060	Housing – Control	1
14	94–4009	Screw	4
15	94–4067	Pin – Headed	1
16	94–4061	Arm – Control	1
17	94–3936	Nut – Lock	1
18	94–4062	Gasket – Housing	1
19	94–4065	Cover – Control	1

Ref. No.	Part No.	Description	No. Used
20	94–4007	Screw – HHF	4
21	94–4068	Washer – Retention, Shaft	1
22	94–4069	Screw	1
23	94–4066	Roller – Arm, Control	1
24	94–4071	Plug – Orifice	2
25	94–4072	Valve – Solenoid	1
26	94–4075	Elbow	2
27	94–4074	Plug	1
28	94–4076	Hose	1
†29		Carrier – Bearing, Trunnion	1
†30		Bearing – Journal	2
31	69–3450	Pin	2
†32		Carrier – Trunnion Bearing	1
33	94–4026	Screw – HHF	4
*	93–5967	Asm. – Carrier, Trunnion Brg. (Incl. Ref. #30 & 32)	1
*	93–5968	Asm. – Carrier, Trunnion Brg. MV (Incl. Ref. #29 & 30)	1

† Not Serviced Separately.

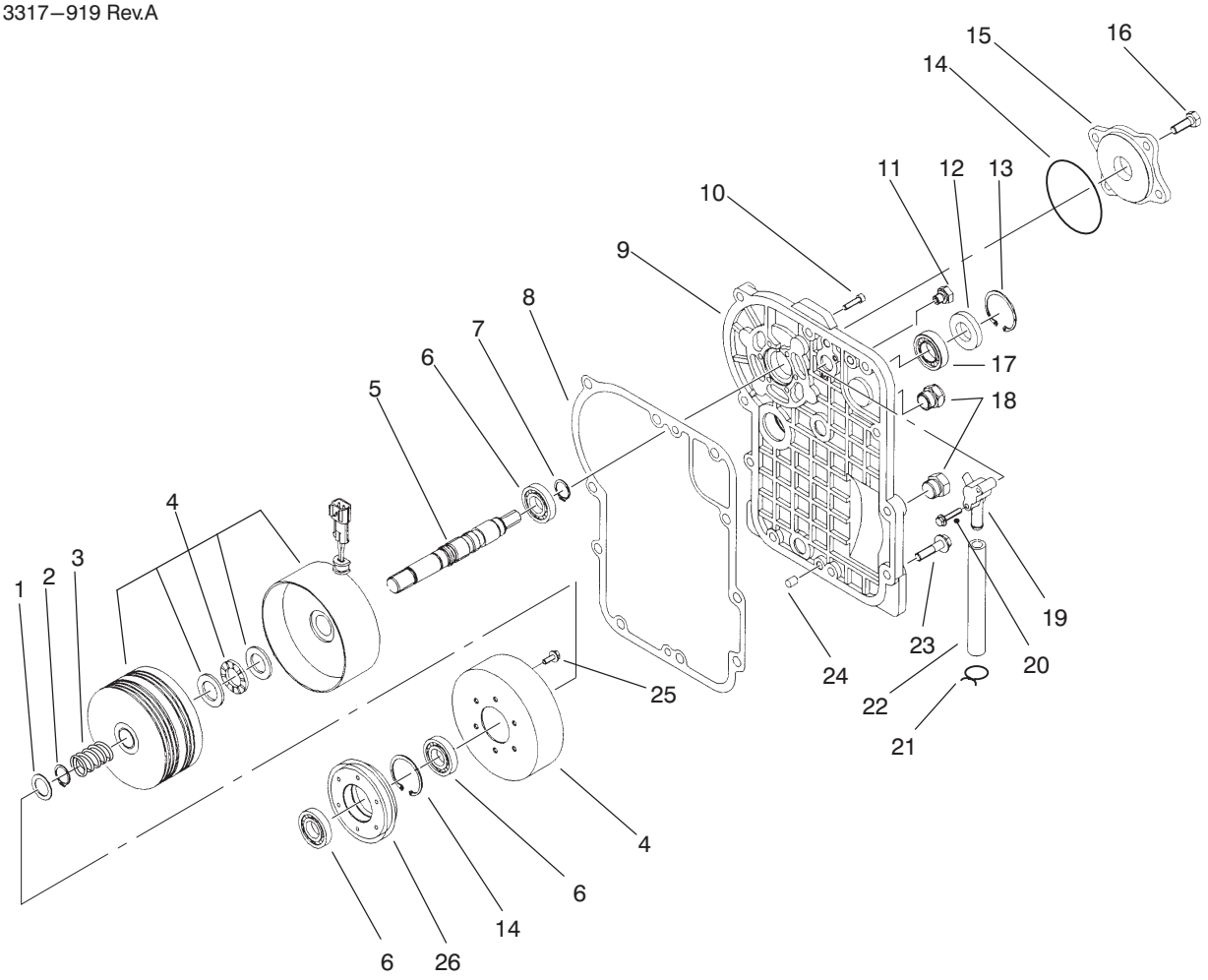


T–2258A

FRONT AXLE GEAR HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–4031	Shaft – Axle, Left	1
2	94–4030	Bearing	2
3	94–4036	Screw	6
4	3253–7	Washer – Lock	6
5	3256–6	Washer – Flat	6
6	94–4038	Bracket – Brake	2
7	94–4033	Housing – Axle	2
8	94–4007	Screw – HHF	14
9	94–4015	Gasket – Housing	2
10	94–3920	Housing – Gear	1
11	69–3170	Ring – Retaining	3
12	94–3913	Shaft – Front PTO	1
13	94–4052	Pinion – PTO Clutch	1
14	94–5966	Kit – Bearing	2
15	94–4003	Screw – HHF	2
16	94–3972	Clamp – Differential	1
17	94–3970	Assembly – Differential	1
18	94–3938	Carrier – Bearing	1
19	94–4002	Screw – HHF	6
20	94–4143	Stud – Wheel	10

Ref. No.	Part No.	Description	No. Used
21	94–4035	Shaft – Axle, Right	1
22	94–4144	Collar – Bearing	2
23	94–4142	Ring – Retaining	2
24	94–4032	Seal – Lip	2
25	94–3975	Pin	4
26	94–3971	Bearing – Ball	3
27	94–3959	Gasket – Housing	1
28	94–3997	Ring – Retaining	3
29	94–3961	Bearing – Ball	1
30	94–3907	Retainer – Bearing	1
31	94–3912	Gear – Final Drive	1
32	94–3958	Spacer – Pinion	1
33	75–0520	Bearing	1
34	94–4024	Washer	1
35	94–4025	Nut – Lock	1
36	94–4014	Screw – Socket Head	6
37	94–3953	Nut – Lock	1
38	94–3914	Gear – Drive, PTO	1
39	94–3909	Pinion – Drive, PTO	1

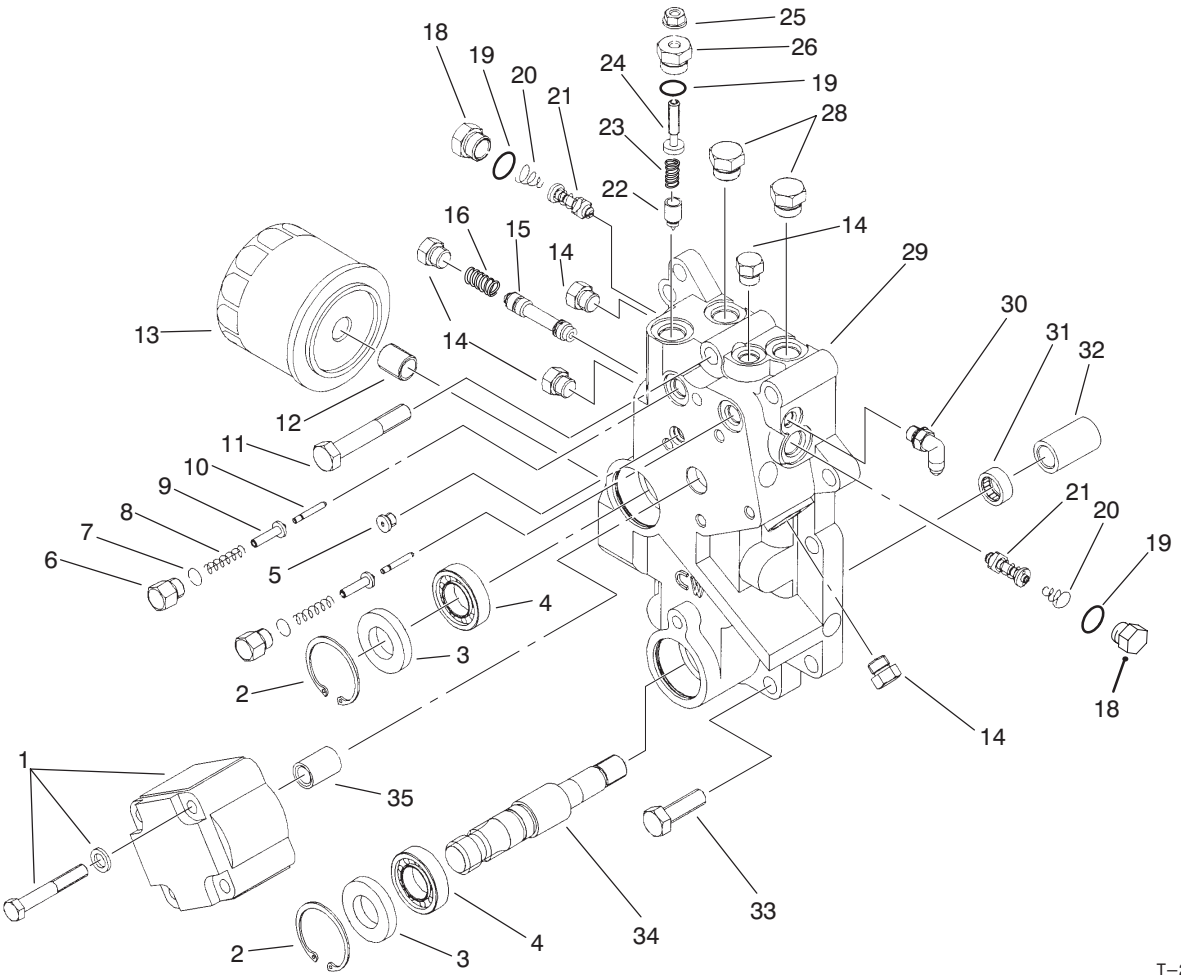


T–2259

FRONT AXLE GEAR HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–3995	Washer	1
2	94–4006	Ring – Retaining	1
3	94–4005	Spring – Compression	1
4	94–3969	Clutch – PTO	1
5	94–3910	Shaft – Clutch	1
6	94–3960	Bearing – Ball	3
7	94–3996	Ring – Retaining	1
8	94–4001	Gasket – Cover, Front	1
9	94–3991	Cover – Front	1
10	94–4009	Screw	6
11	94–3998	Vent – Breather	1
12	94–3925	Seal – Lip	1
13	94–4029	Ring – Retaining	2

Ref. No.	Part No.	Description	No. Used
14	94–4011	O–Ring	1
15	94–4010	Cover – Gerotor	1
16	94–4008	Screw	4
17	94–3942	Bearing – Ball	1
18	67–8030	Plug	2
19	94–4012	Tube – Lubrication	1
20	94–4013	Screw – HHF	2
21	94–4042	Clamp	2
22	94–4041	Hose – Lubricating	1
23	94–4004	Screw – HHF	10
24	94–3975	Pin	2
25	94–4026	Screw – HHF	6
26	94–4053	Gear – Clutch, PTO	1

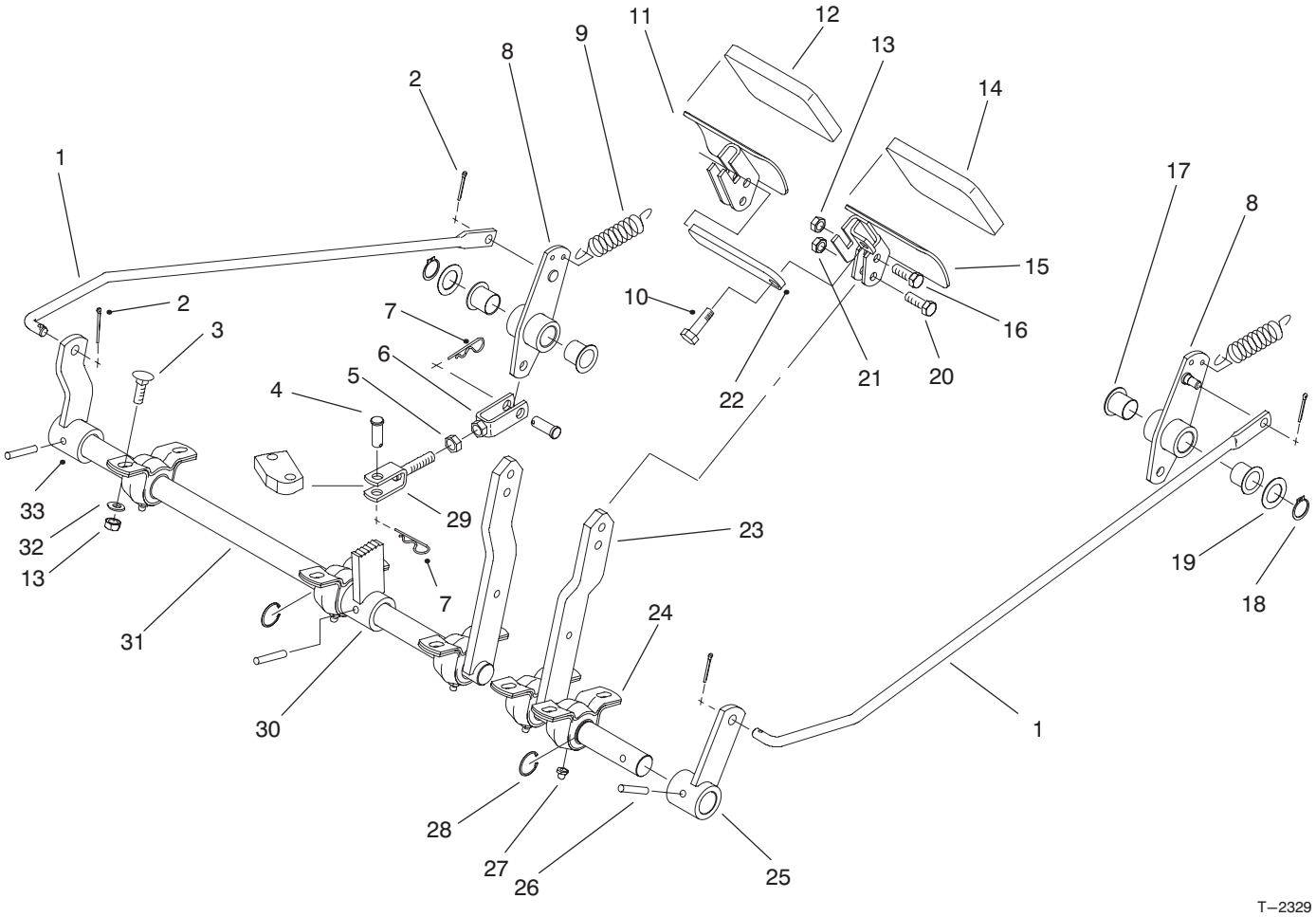


T–2257

FRONT AXLE CENTER SECTION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–3968	Pump – Gear	1
2	94–4029	Ring – Retaining	2
3	94–3925	Seal – Lip	2
4	94–3942	Bearing – Ball	2
5	94–3993	Plug	1
6	94–3986	Plug – Hex. Head	2
7	94–3987	O–Ring	2
8	94–3985	Spring	2
9	94–3983	Assembly – Sleeve	2
10	94–3984	Piston	2
11	94–3999	Screw	2
12	94–3950	Union – Filter	1
13	94–3951	Filter	1
14	94–3915	Plug	5
15	94–3916	Spool	1
16	94–3917	Spring – Helical	1
18	94–3981	Plug	2

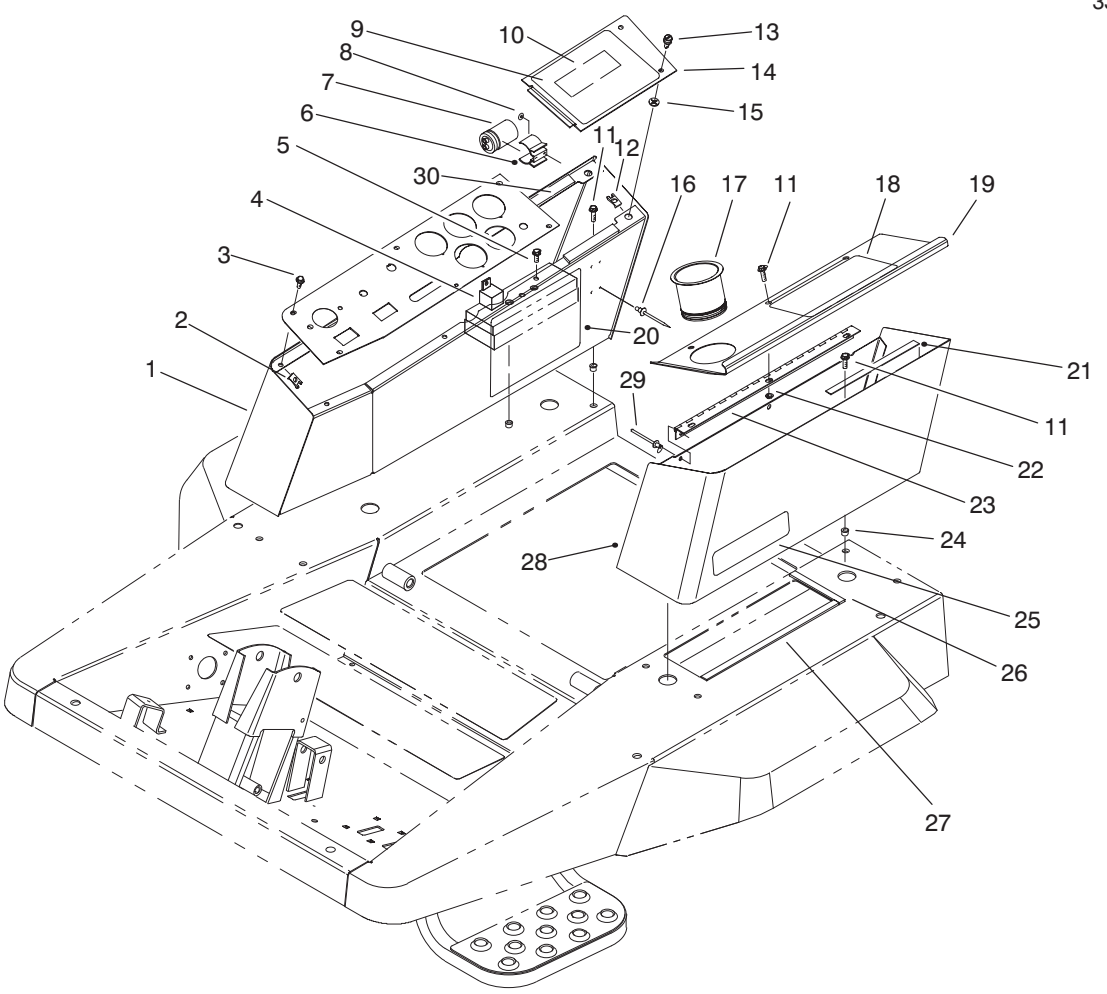
Ref. No.	Part No.	Description	No. Used
19	94–3982	O–Ring	3
20	69–3740	Spring – Conical	2
21	94–3979	Valve	2
22	94–3988	Cone – Valve, Relief	1
23	94–3989	Spring – Helical	1
24	94–4016	Screw – Adjusting	1
25	94–4017	Nut	1
26	94–3990	Plug – Relief, Implement	1
28	94–4018	Plug	2
29	94–3900	Center Section	1
30	94–4075	Elbow	1
31	94–4021	Bearing	1
32	94–4023	Coupling – 4 Wheel Drive	1
33	94–4020	Screw	8
34	94–4022	Shaft – 4 Wheel Drive	1
35	94–3922	Coupling – Pump, Gear	1



BRAKE PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5333	Rod – Control	2
2	3272–7	Pin – Cotter	4
3	33124–020	Screw – Carriage	10
4	283–2	Pin – Clevis	4
5	3220–3	Nut – Jam	2
6	93–5552	Clevis	2
7	3290–467	Pin – Cotter, Hair	4
8	93–5326	Bellcrank	2
9	93–5262	Spring – Extension	2
10	33114–020	Screw – HH	1
11	93–5456	Pedal – RH	1
12	27–7580	Pad – Right Turn	1
13	33024–00	Nut – Lock	14
14	27–7570	Pad – Left Turn	1
15	93–5455	Pedal – LH	1
16	33114–025	Screw – HH	3
17	93–5313	Bushing – Nylon	4

Ref. No.	Part No.	Description	No. Used
18	32120–72	Ring – Retaining	2
19	3–6498	Washer – Thrust	2
20	322–4	Screw – HH	1
21	3218–2	Nut – Hex.	1
22	93–5568	Arm – Lock	1
23	93–5280	Arm – Brake, LH	1
24	93–4849	Bearing – Pillow Block	5
25	93–5473	Lever – Brake, LH	1
26	32121–15	Pin – Roll	3
27	302–5	Fitting – Grease	5
28	32151–83	Ring – Retaining	3
29	93–5551	Clevis	2
30	93–5475	Latch – Brake	1
31	93–5284	Arm – Brake, RH	1
32	33094–00	Washer – Flat	10
33	93–5474	Lever – Brake, RH	1



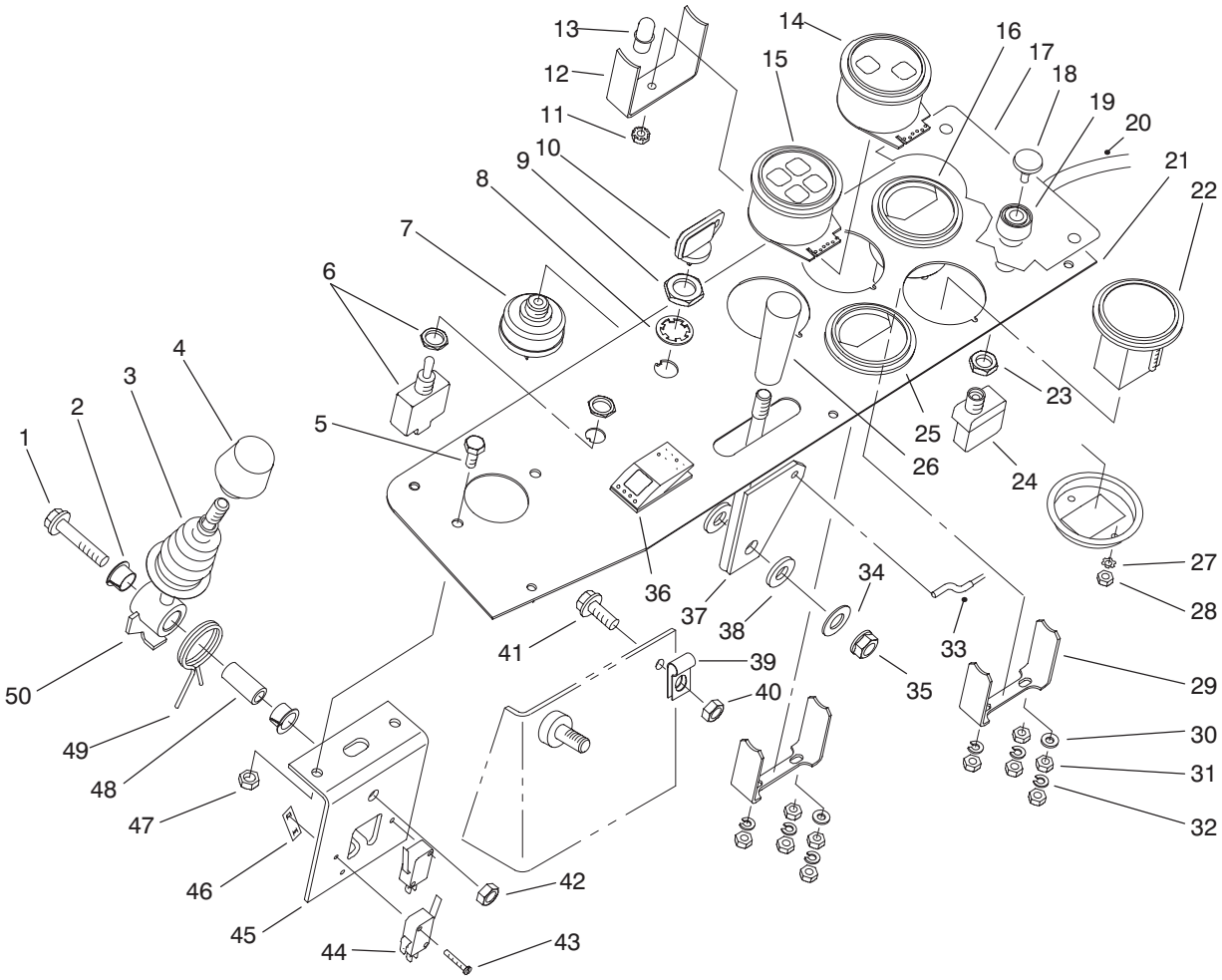
T–2330A

CONTROL CONSOLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5369	Console	1
2	3290–191	Nut – Speed	6
3	3250–14	Screw	6
4	116397	Relay	7
5	93–5949	Screw – HHF	2
6	74–2310	Clamp – Plastic	2
7	37–2690	Capacitor	2
8	3269–10	Washer – Flat	2
9	93–5930	Decal – Operating Instruct.	1
10	93–5932	Decal – Fuses	1
11	33103–016	Screw – HHF	12
12	93–5558	Nut – Clip On	2
13	93–5556	Screw – Knurled	2
14	93–5527	Panel – Access	1
15	93–5557	Retainer – Nylon	2
16	117433	Rivet – Pop	2
17	94–1410	Holder – Beverage Can	1
18	93–5621	Decal – Warning (Model 30301)	1
18	93–5622	Decal – Warning (Model 30302)	1

Ref. No.	Part No.	Description	No. Used
19	93–5403	Cover – Console	1
20	93–5934	Decal – Service (Model 30301)	1
20	93–5625	Decal – Service (Model 30302)	1
21	66–3050	Strip – Magnetic	2
22	33003–00	Nut – HF	3
23	93–5554	Hinge – Cover	1
24	93–5447	Nut – Clinch	8
25	67–1710	Decal – Caution	1
26	93–5413	Strip – Foam	2
27	93–5414	Strip – Foam	2
28	93–5399	Console – LH	1
29	93–8744	Rivet – Pop	3
30	93–5637	Strip – Foam	2
*	94–6710	Fuse – 2A	1
*	218–578	Fuse – 10A	1
*	218–594	Fuse – 20A	2
*	94–4109	Fuse – 80A	1
*	92–3188	Board – Diode	2

*Not Illustrated



T–2331

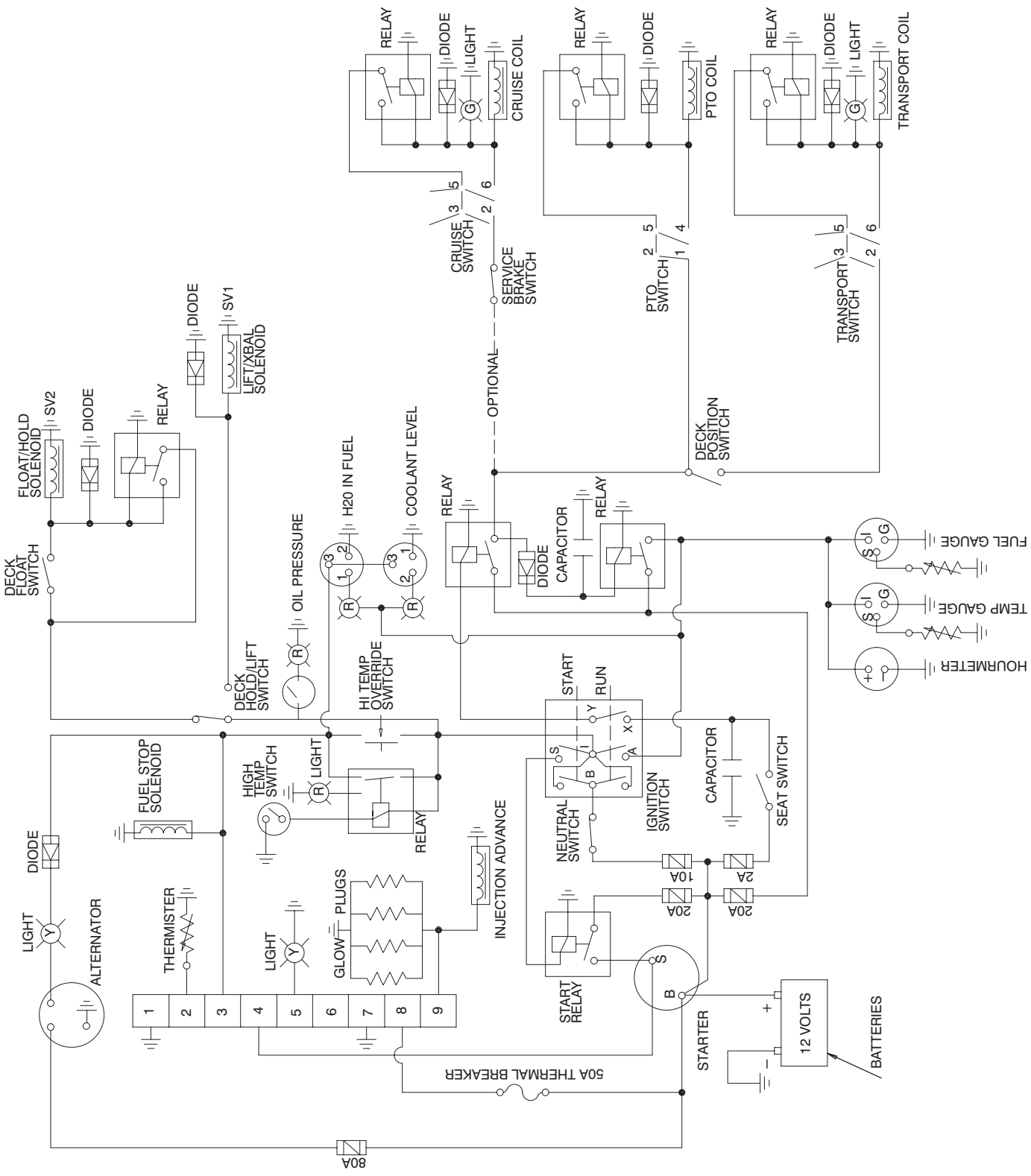
OPERATOR'S CONTROL CONSOLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	33104–040	Screw – HHF	1
2	93–5547	Bushing – Nylon	2
3	3290–488	Boot	1
4	233–37	Knob	1
5	33103–016	Screw – HHF	2
6	93–5270	Switch – Toggle	1
7	27–2360	Switch – Ignition (Incl. Ref. #8–9)	1
8	218–447	Washer – Lock	1
9	218–446	Nut – Hex.	1
10	62–7770	Key – Ignition	1
11		Nut – Keps	1
12		Clamp	1
13		Bulb – Light	4
14	93–5481	Cluster – Warning Light	1
15	93–5478	Cluster – Warning Light	1
16	76–9060	Gauge – Temperature	1
17	93–5425	Decal – Control	1
18	43–6280	Button – Push	1
19	43–6420	Bezel – Switch	1
20	93–5518	Wire Harness	1
21	93–5376	Plate – Control	1
22	66–2950	Gauge – Hourmeter	1
23	218–498	Nut – Hex.	1
24	72–9760	Switch – Override	1
25	66–2940	Gauge – Fuel	1

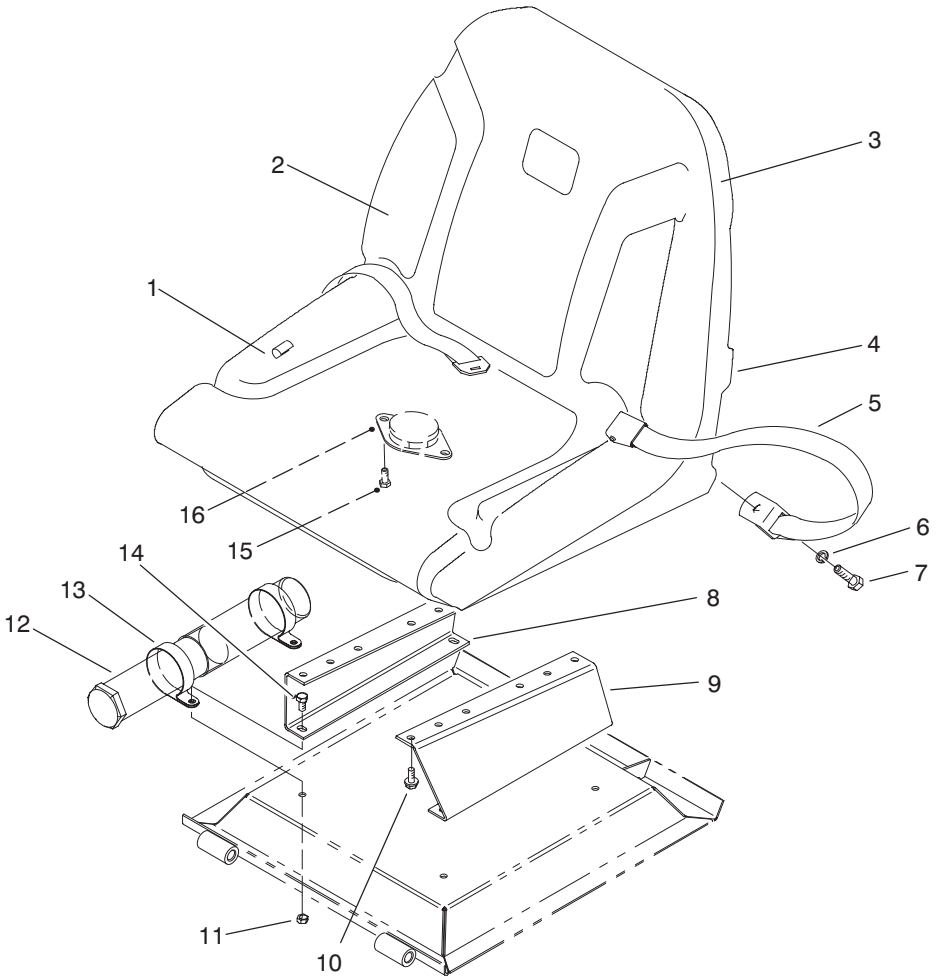
Ref. No.	Part No.	Description	No. Used
26	233–39	Knob – Lever	1
27	3255–20	Washer – Lock	2
28	3217–25	Nut – Hex.	2
29		Clamp	2
30	3256–14	Washer – Flat	4
31	3219–14	Nut – Hex.	12
32	3253–2	Washer – Lock	10
33	93–5350	Cable – Throttle	1
34	3256–24	Washer – Flat	1
35	33025–00	Nut – Lock	1
36	93–5476	Switch	1
37	93–5373	Lever – Throttle	1
38	66–2920	Washer – Nylon	2
39	2412–21	Clamp – Bodine	1
40	32128–17	Nut – HHF	1
41	3290–134	Screw – HHF	1
42	33024–00	Nut – Lock	1
43	3290–313	Screw – PH	4
44	111332	Switch – Interlock	2
45	93–5510	Bracket	1
46	3290–354	Nut – Speed	2
47	33023–00	Nut – Lock	2
48	93–5512	Spacer	1
49	93–5509	Spring – Torsion	1
50	93–5515	Lever	1
*	93–5517	Wire Harness	1

*Not Illustrated

ELECTRICAL SCHEMATIC



T–2262A

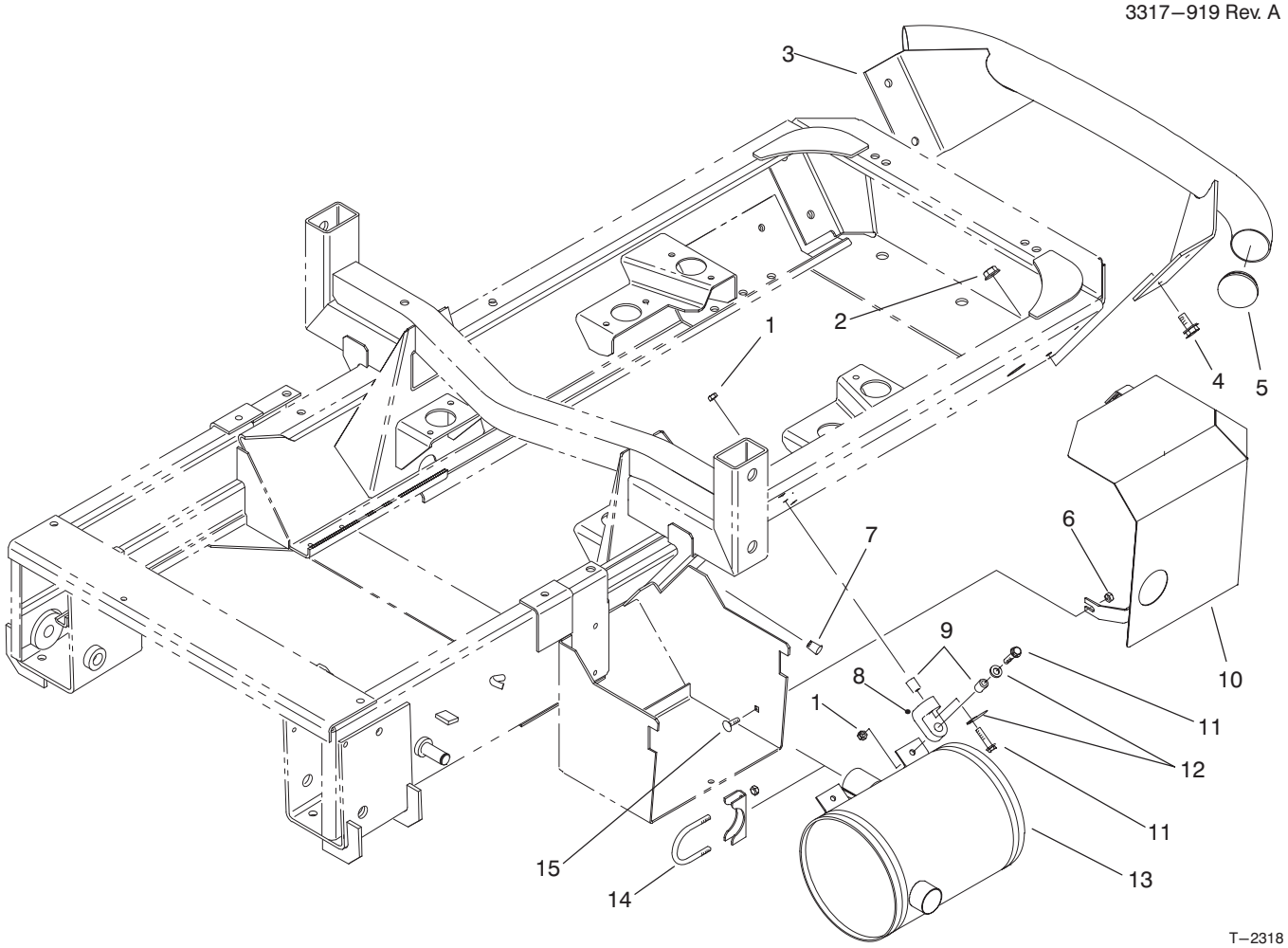


T–2333

SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	351–80	Clip – Edging	1
2	92–6533	Kit – Cushion, Replacement	1
3	351–78	Edging	1
4	92–6534	Shell	1
5	72–9390	Belt – Seat (Model No. 30302 only)	1
6	3253–6	Washer – Lock (Model No. 30302 only)	2
7	3212–4	Screw – HH (Model No. 30302 only)	2
8	93–5599	Bracket – Seat, RH	1
9	93–5600	Bracket – Seat, LH	1
10	3234–5	Screw – Flange	4
11	33024–00	Nut – Lock	4
12	74–0720	Tube – Manual	1
13	2412–133	Clamp – R	2
14	33114–016	Screw – HH	4
15	321–3	Screw – HH	2
16	92–6282	Switch – Seat	1
*	92–6280	Assembly – Seat (Incl. Ref. 1–4)	1

*Not Illustrated

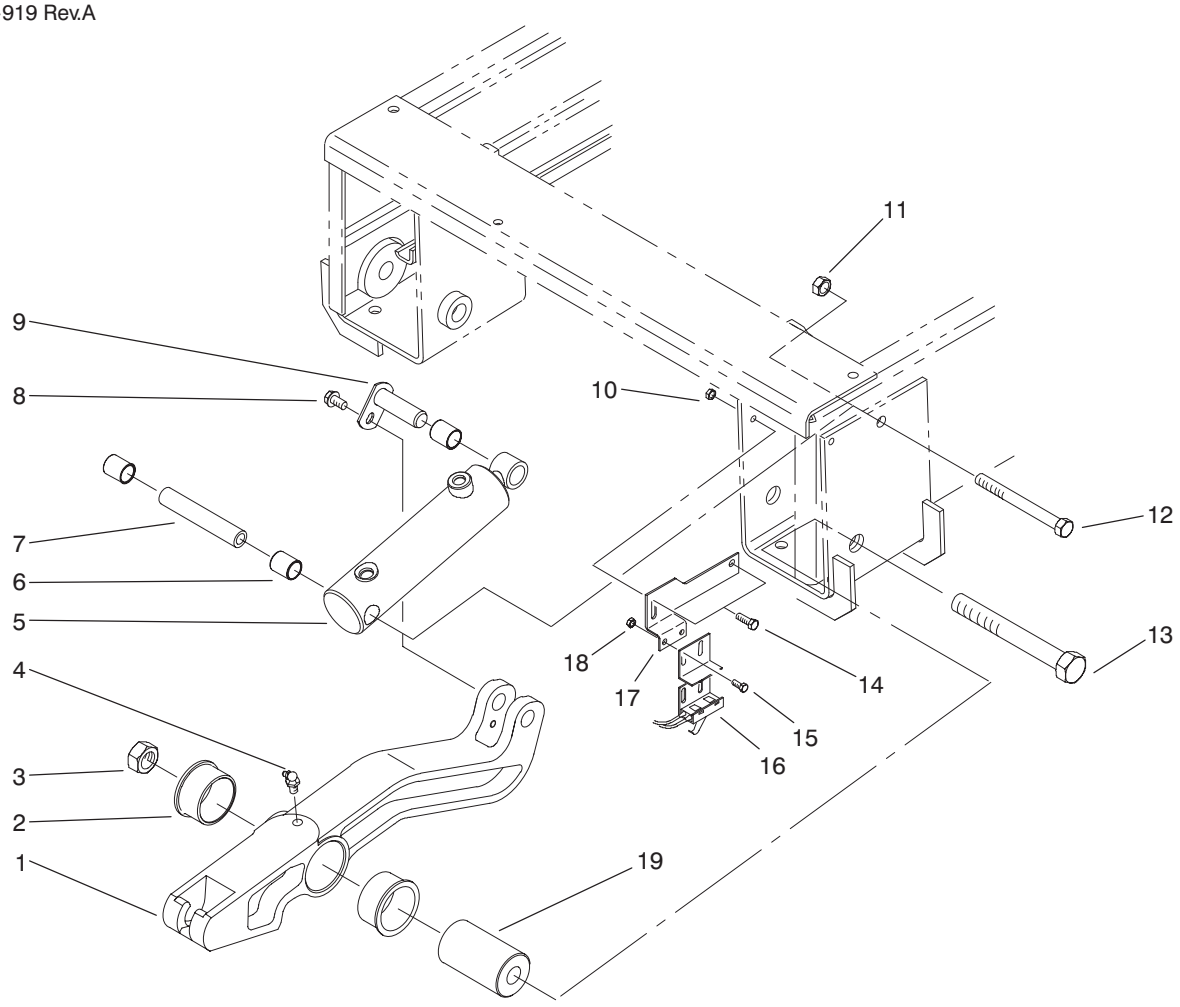


T–2318

MUFFLER & REAR BUMPER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	33024–00	Nut – Lock	3
2	33006–00	Nut – HF	4
3	93–5440	Bumper	1
4	33106–025	Screw – HHF	4
5	2410–42	Cap – Bumper	2
6	33004–00	Nut – HF	3
7	93–5450	Nut – Clinch	1
8	93–5113	Hanger – Rubber	2

Ref. No.	Part No.	Description	No. Used
9	93–5023	Spacer	4
10	93–5594	Guard – Muffler	1
11	33104–035	Screw – HHF	4
12	3256–3	Washer – Flat	4
13	93–5946	Muffler	1
14	2112–6	Clamp – Muffler	1
15	33124–020	Screw – Carriage	3



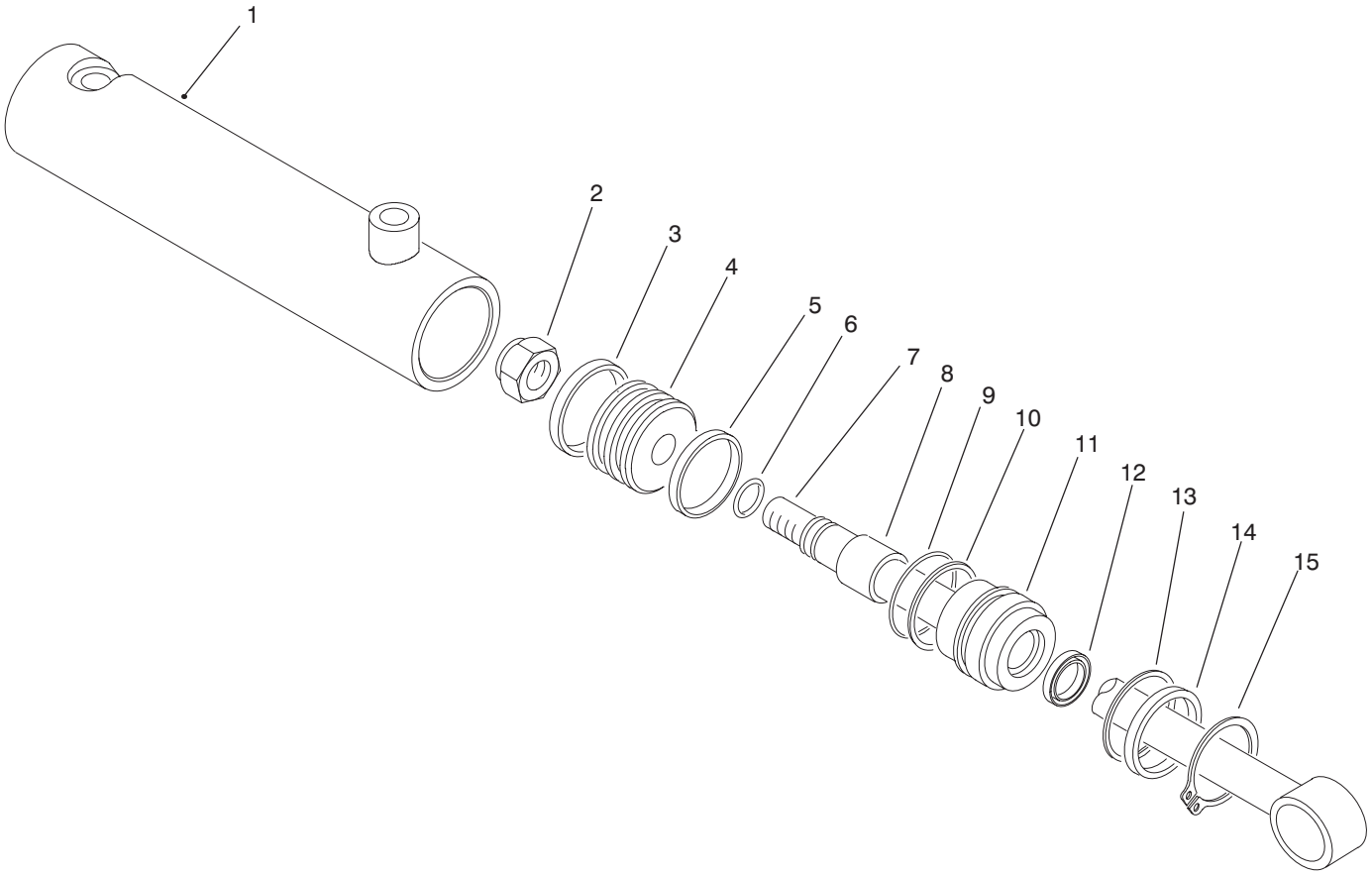
T–2328

LIFT ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–4666	Arm – Lift, LH	1
*	93–4574	Arm – Lift, RH	1
2	93–4665	Bushing – Flange	4
3	33019–00	Nut – HH	2
4	302–33	Fitting – Grease	2
5	93–4640	Cylinder – Hydraulic	2
6	93–4639	Bushing	6
7	93–4586	Spacer – Cylinder	2
8	33104–016	Screw – HHF	2
9	93–4630	Pin	2

Ref. No.	Part No.	Description	No. Used
10	33023–00	Nut – Lock	2
11	33026–00	Nut – Lock	2
12	33116–150	Screw – HH	2
13	33119–160	Screw – HH	2
14	33103–020	Screw – HHF	2
15	3252–2	Screw – SFH	2
16	93–7037	Nut – Lock	2
17	93–5434	Bracket – Switch	1
18	32149–7	Nut – Keps	2
19	93–4587	Spacer – Pivot	2

*Not Illustrated

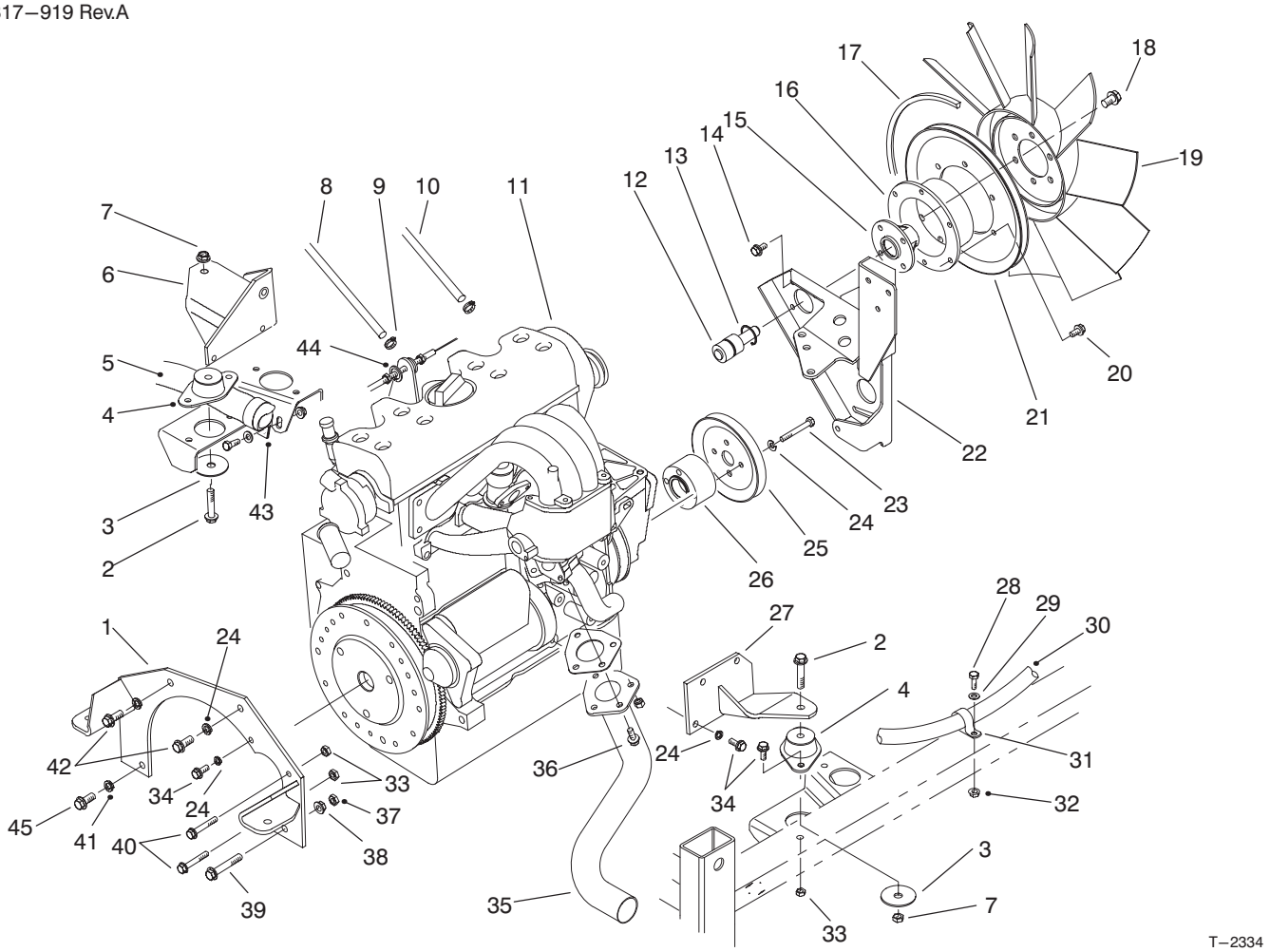


T–2261

HYDRAULIC CYLINDER ASSEMBLY NO. 93–4640

Ref. No.	Part No.	Description	No. Used
1	93–5609	Assembly – Tube	1
2	93–5607	Nut – Lock	1
3		Seal – Piston	1
4	93–5608	Assembly – Piston (Incl. Ref. #3 & 5)	1
5		Ring – Wear	1
6		O–Ring	1
7	93–5610	Assembly – Rod	1
8		Bushing	1
9		O–Ring	1
10		Washer – Backup	1
11	93–5611	Assembly – Head (Incl. Ref. #8–10 & 12)	1
12		Wiper	1
13	93–5612	Ring – Retaining	1
14	93–5613	Spacer	1
15	93–5614	Ring – Retaining	1
*	93–5493	Kit – Repair, Seal (Incl. Ref. #3, 5, 6, 9, 10 & 12)	1

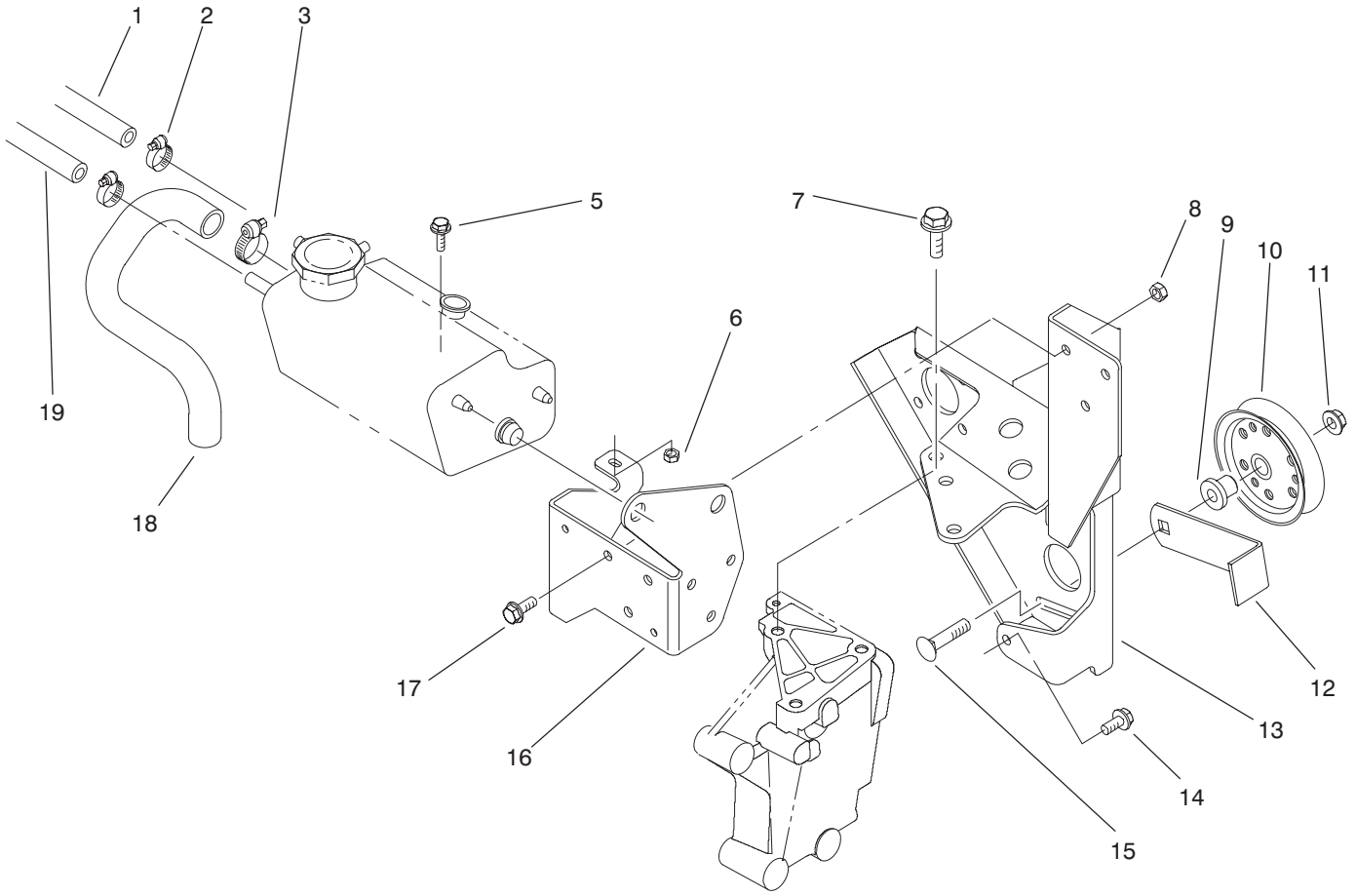
*Not Illustrated



ENGINE MOUNT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5055	Plate – Engine, Front	1
2	33105–050	Screw – HHF	4
3	87–5100	Washer – Snubbing	4
4	93–5265	Mount – Engine	4
5	93–5596	Hose – Radiator, Lower	1
6	93–5059	Mount – Engine, RH	1
7	33025–00	Nut – Lock	4
8	93–5485	Hose – Fuel	1
9	2412–108	Clamp – Hose	2
10	93–5084	Hose – Air Cleaner	1
11	93–5389	Asm. – Engine, Peugeot	1
12	36–7290	Bearing	1
13	32120–10	Ring – Retaining	1
14	33104–016	Screw – HHF	4
15	93–5187	Hub – Fan	1
16	93–5190	Hub – Fan	1
17	93–5198	V–Belt	1
18	33105–020	Screw – HHF	6
19	93–5114	Fan	1
20	33114–010	Screw – HH	6
21	93–5191	Pulley – Fan	1
22	93–5166	Bracket – Fan	1
23	33114–060	Screw – HH	4

Ref. No.	Part No.	Description	No. Used
24	3253–4	Washer – Lock	11
25	93–5192	Pulley – Crank	1
26	93–5196	Spacer – Crank	1
27	93–5062	Mount – Engine, LH	1
28	33114–020	Screw – HH	2
29	3256–23	Washer – Flat	2
30	93–5942	Hose	1
31	2412–104	Clamp–R	1
32	33004–00	Nut – HF	2
33	33024–00	Nut – Lock	10
34	33104–020	Screw – HHF	15
35	93–5049	Pipe – Exhaust	1
36	33104–020	Screw – HHF	1
37	33015–00	Nut – HH	1
38	33005–00	Nut – HF	1
39	33105–070	Screw – HHF	1
40	33104–050	Screw – HHF	2
41	3253–6	Washer – Lock	3
42	33105–025	Screw – HHF	3
43	2412–96	Clamp–R	1
44	86–2990	Mount – Cable, Throttle	2
45	33105–035	Screw – HHF	1

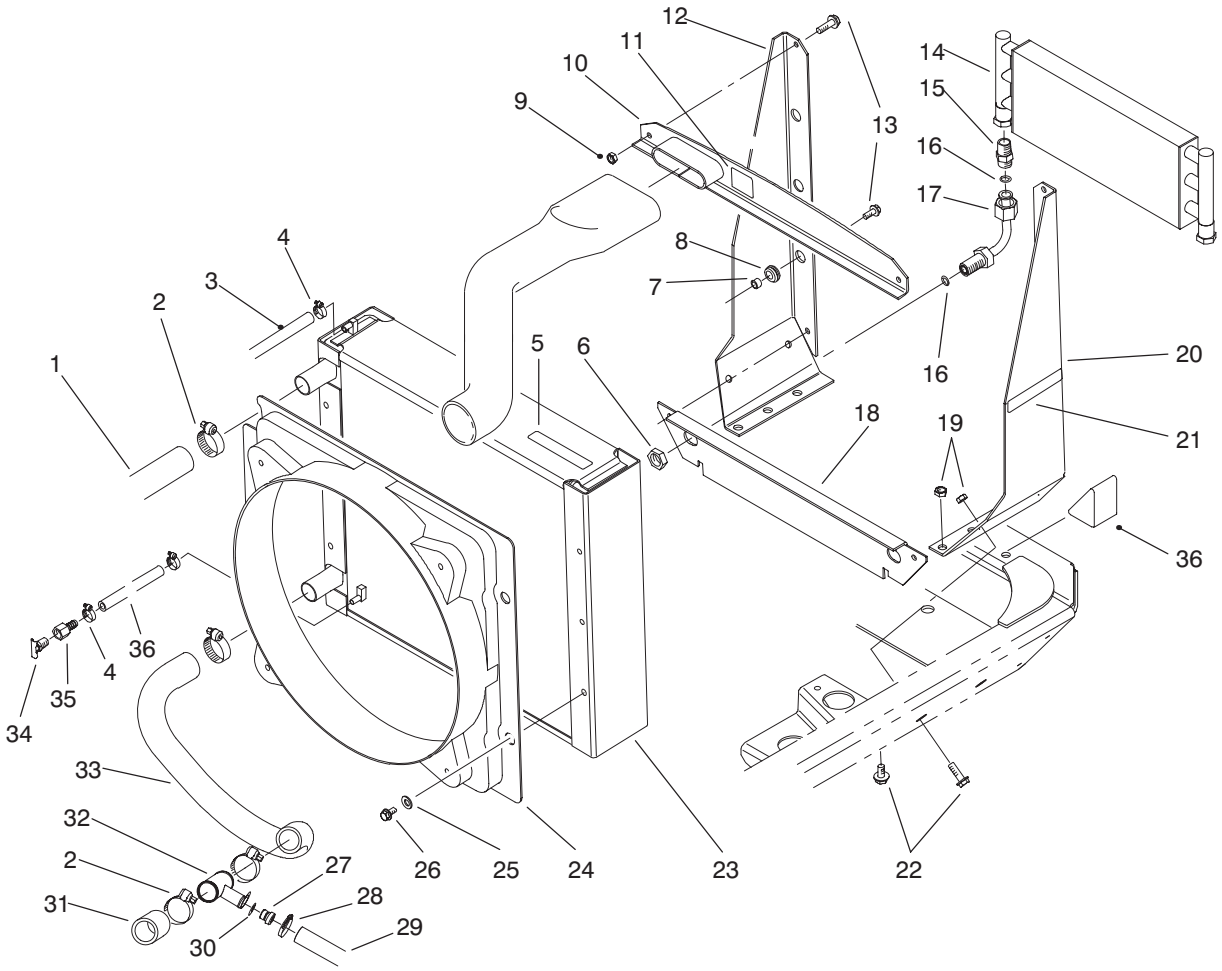


T–2347A

FAN BRACKET & DEGASSER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5539	Hose	1
2	2412–36	Clamp – Hose	4
3	2412–111	Clamp – Hose	3
5	33103–020	Screw – HHF	1
6	33023–00	Nut – Lock	1
7	33105–020	Screw – HHF	2
8	33024–00	Nut – Lock	3
9	93–5197	Spacer – Idler	1
10	93–5194	Pulley – Idler	1
11	33005–00	Nut – HF	1

Ref. No.	Part No.	Description	No. Used
12	93–5504	Lever	1
13	93–5166	Bracket – Fan	1
14	33104–020	Screw – HHF	1
15	33125–045	Screw – Carriage	1
16	93–5096	Bracket – Degasser	1
17	33104–020	Screw – HHF	3
18	93–5536	Hose – Degasser	1
19		Hose	1

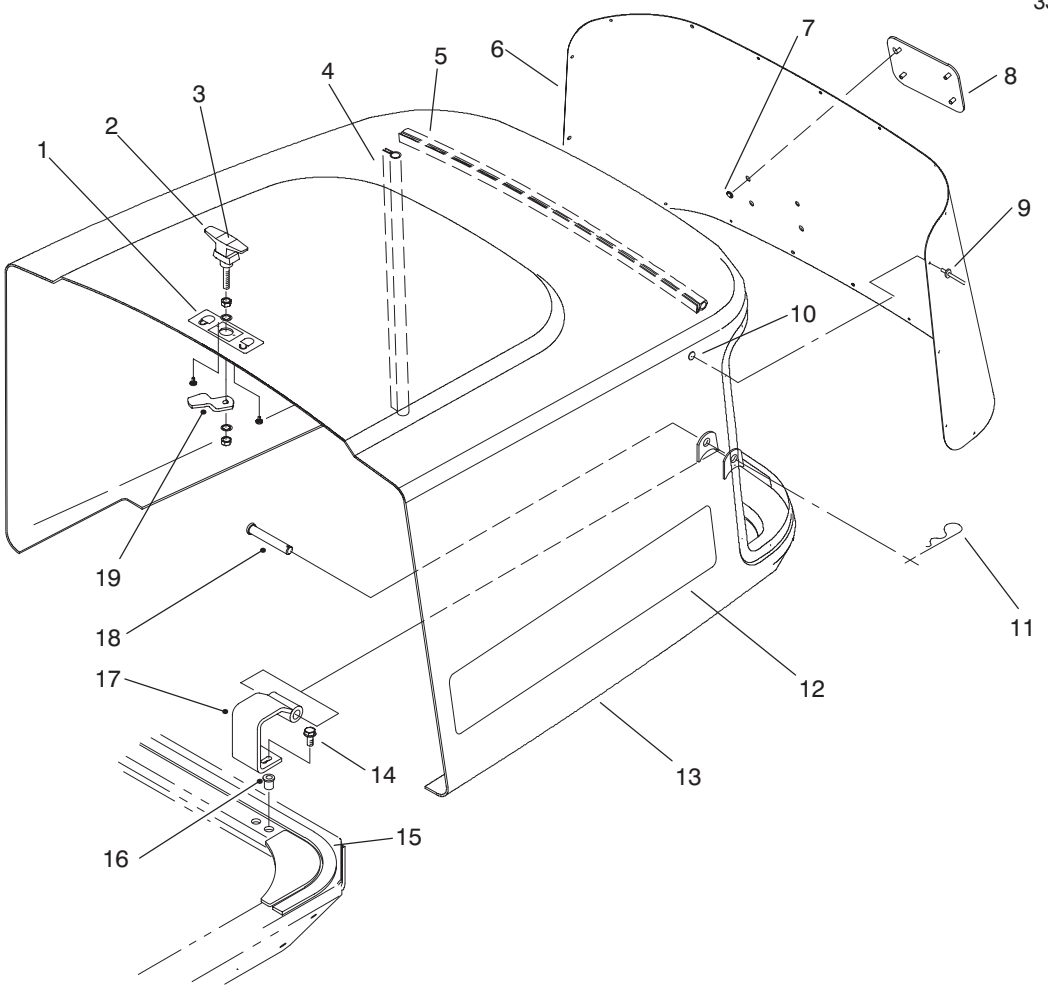


T–2322A

RADIATOR & COOLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5595	Hose – Radiator, Upper	1
2	2412–111	Clamp – Hose	6
3	93–5538	Hose	1
4	2412–141	Clamp – Hose	3
5	77–3100	Decal – Caution	3
6	340–127	Nut – Bulkhead	2
7	93–5109	Spacer	6
8	93–5108	Grommet – Rubber	6
9	33024–00	Nut – Lock	4
10	93–5100	Support – Upper, Radiator	1
11	83–9150	Decal – Starting Fluid	1
12	93–5104	Support – RH, Radiator	1
13	33104–020	Screw – HHF	10
14	63–5400	Exchanger – Heat	1
15	93–5107	Fitting – Adapter	2
16	237–30	O–Ring	4
17	93–5106	Tube – Cooler, Oil	2
18	93–5103	Support – Lower, Radiator	1

Ref. No.	Part No.	Description	No. Used
19	33025–00	Nut – Lock	4
20	93–5105	Support – LH, Radiator	1
21	33105–030	Screw – HHF	4
22	93–5942	Radiator	1
23	93–5034	Shroud – Radiator	1
24	3256–35	Washer – Flat	4
25	33104–016	Screw – HHF	4
26	93–5054	Fitting – Restriction	1
27	2412–141	Clamp	2
28	93–5537	Hose	1
29	93–5392	O–Ring	1
30	93–5597	Hose – Radiator	1
31	93–5053	Fitting – Hose, Radiator	1
32	93–5596	Hose – Radiator, Lower	1
33	93–5528	Fitting – Drain Cock	1
34	354–94	Barb – Female, Hose	1
35	18–2080	Hose	1
36	93–5954	Foam – Plug	2



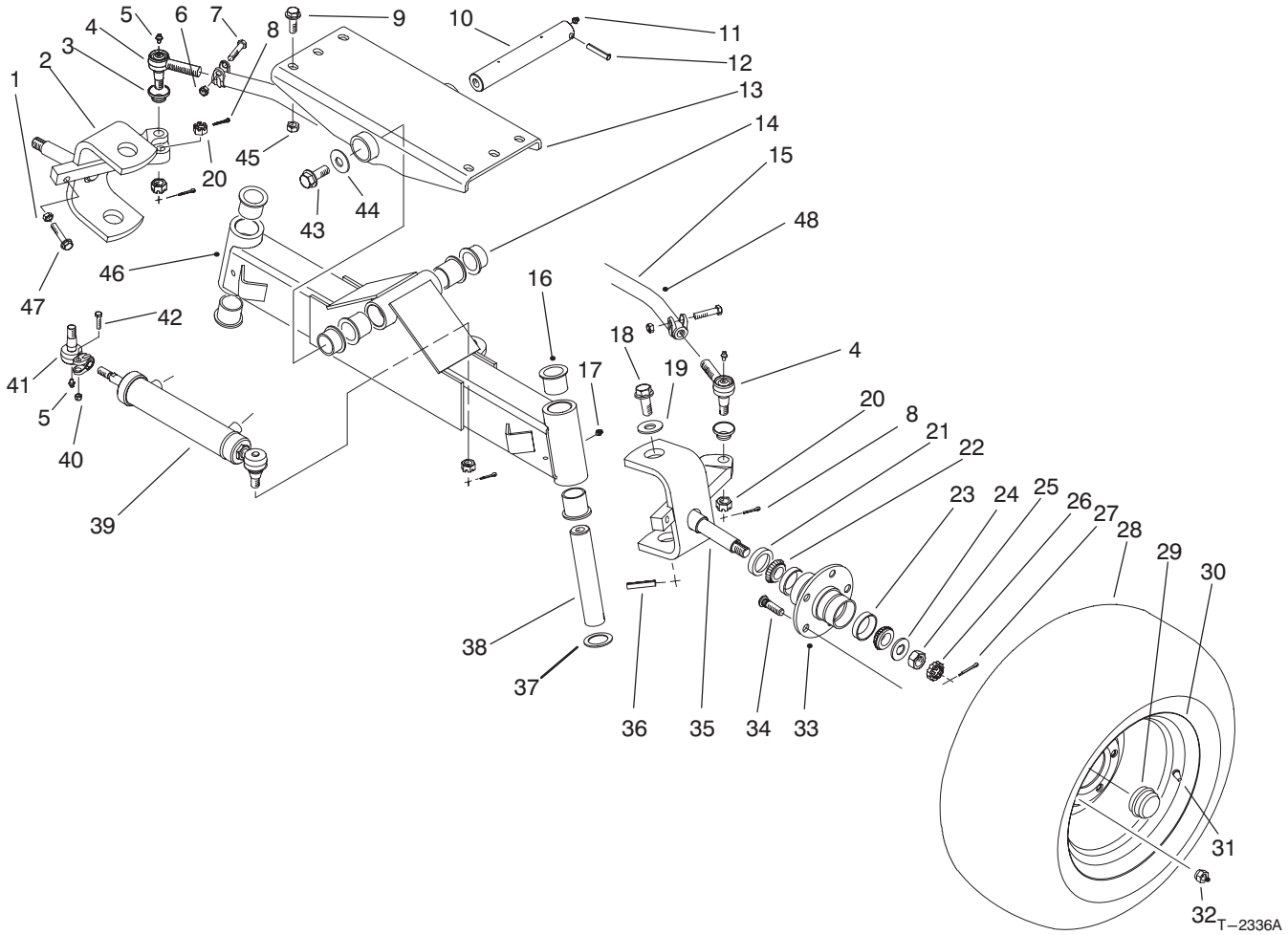
T–2321

HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–6328	Decal	1
2	93–5570	Handle – Latch (Incl. Ref. #19)	1
3	94–6329	Decal	1
4	93–5250	Seal – Bulb, Side	2
5	93–5251	Seal – Bulb, Top	1
6	93–5229	Screen – Rear	1
7	94–2638	Nut – Tinnermann	4
8	93–6028	Plate – Logo, Toro	1
9	117433	Rivet – Pop	22

Ref. No.	Part No.	Description	No. Used
10	3269–10	Washer – Flat	22
11	3290–467	Pin – Cotter, Hair	2
12	93–5422	Decal – Hood	2
13	93–5086	Assembly – Hood	1
14	33104–020	Screw – HHF	4
15	93–5254	Strip – Foam, Rear	1
16	93–5450	Nut – Clinch	4
17	93–5093	Pivot – Hood	2
18	283–55	Pin – Clevis	2
19	93–5566	Arm – Latch	1

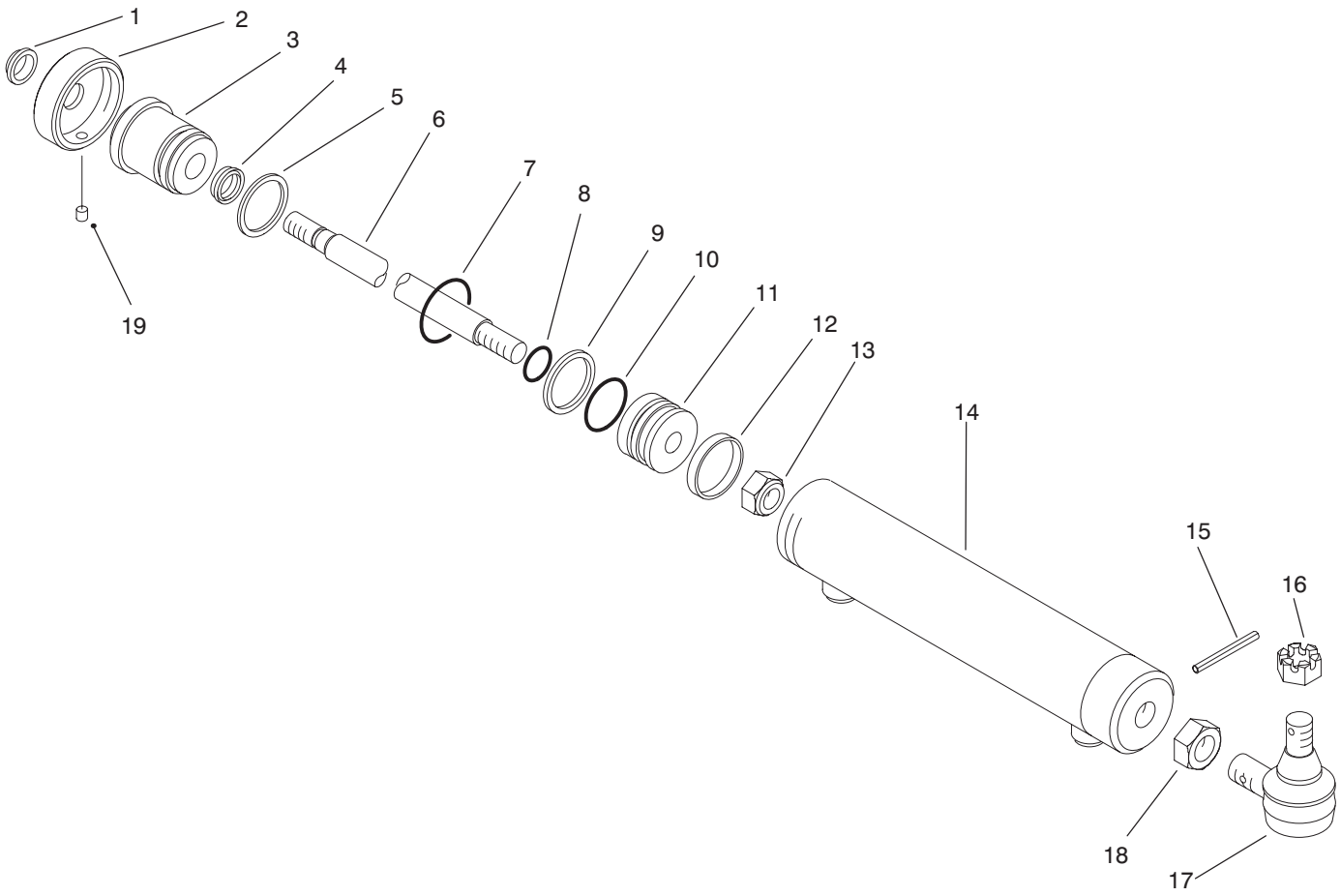
3317–919 Rev.A



REAR AXLE ASSEMBLY (MODEL NO. 30301)

Ref. No.	Part No.	Description	No. Used
1	33015–00	Nut – HH	2
2	93–5158	Spindle – RH	1
3	71–4760	Seal	2
4	71–4740	Rod – End	2
5	302–55	Fitting – Grease	3
6	3296–39	Nut – Lock	2
7	323–9	Screw – HH	2
8	3272–11	Pin – Cotter	2
9	33106–035	Screw – HHF	6
10	93–5142	Pin – Axle, Pivot	1
11	302–2	Fitting – Grease	1
12	32121–110	Pin – Spring	1
13	93–5140	Pivot – Axle	1
14	93–4510	Bushing – Castor	2
15	93–5168	Asm. – Tie Rod (Incl. Ref. #3–8, & 20)	1
16	69–6470	Bushing	6
17	302–5	Fitting – Grease	2
18	33108–040	Screw – HHF	2
19	3256–7	Washer – Flat	2
20	32136–13	Nut– Castle	4
21	253–129	Seal – Hub	2
22	254–94	Cone – Bearing	4
23	254–72	Cup – Bearing	4
24	93–0309	Washer – Tab	2

Ref. No.	Part No.	Description	No. Used
25	3220–7	Nut – Jam	2
26	93–0307	Nut – Retainer, Lock	2
27	3272–13	Pin – Cotter	2
28	74–5560	Tire	2
29	241–119	Cap – Dust	2
30	217–122	Rim	2
31	232–27	Stem – Valve	2
32	242–50	Nut – Lug	10
33	21–2820	Assembly – Hub (Incl. Ref. #23 & 34))	2
34	10–6830	Stud – Drive	10
35	93–5496	Spindle – LH	1
36	32121–110	Pin – Spring	2
37	62–2170	Washer – Thrust	2
38	93–5503	Pin – Spindle, Pivot	2
39	93–5502	Cylinder – Steering	1
40	3296–4	Nut – Lock	1
41	92–5072	Rod – End, Ball Joint	1
42	3210–7	Screw – HH	1
46	93–5121	Axle – Rear	1
43	33108–040	Screw – HHF	1
44	3256–7	Washer – Flat	1
45	33026–00	Nut – Lock	6
47	33115–045	Screw – HH	2
48	93–5169	Asm. – Clamp & Tube	1



T–2260

STEERING CYLINDER ASSEMBLY NO. 93–5502

Ref. No.	Part No.	Description	No. Used
1		Wiper – Rod	1
2	92–5705	Cap – Threaded	1
3	92–5706	Head – Cap, Threaded	1
4		U–Cup, Loaded	1
5		Ring – Backup	1
6	93–5555	Rod	1
7		O–Ring	1
8		O–Ring	1
9		Ring – Piston, Unithane	1
10		O–Ring	1
11	92–5703	Piston	1

Ref. No.	Part No.	Description	No. Used
12		Ring – Wear	1
13	88–3590	Nut – Lock	1
14		Asm. – Barrel	1
15	32121–44	Pin – Roll	1
16	32136–13	Nut – Slotted	1
17	82–5730	End – Tie Rod	1
18	82–5740	Nut – Jam	1
19	92–5708	Screw – Set, Socket Hd.	1
*	92–5707	Kit – Seal (Incl. Ref. #1, 4, 5, 7–10 & 12)	1

*Not Illustrated

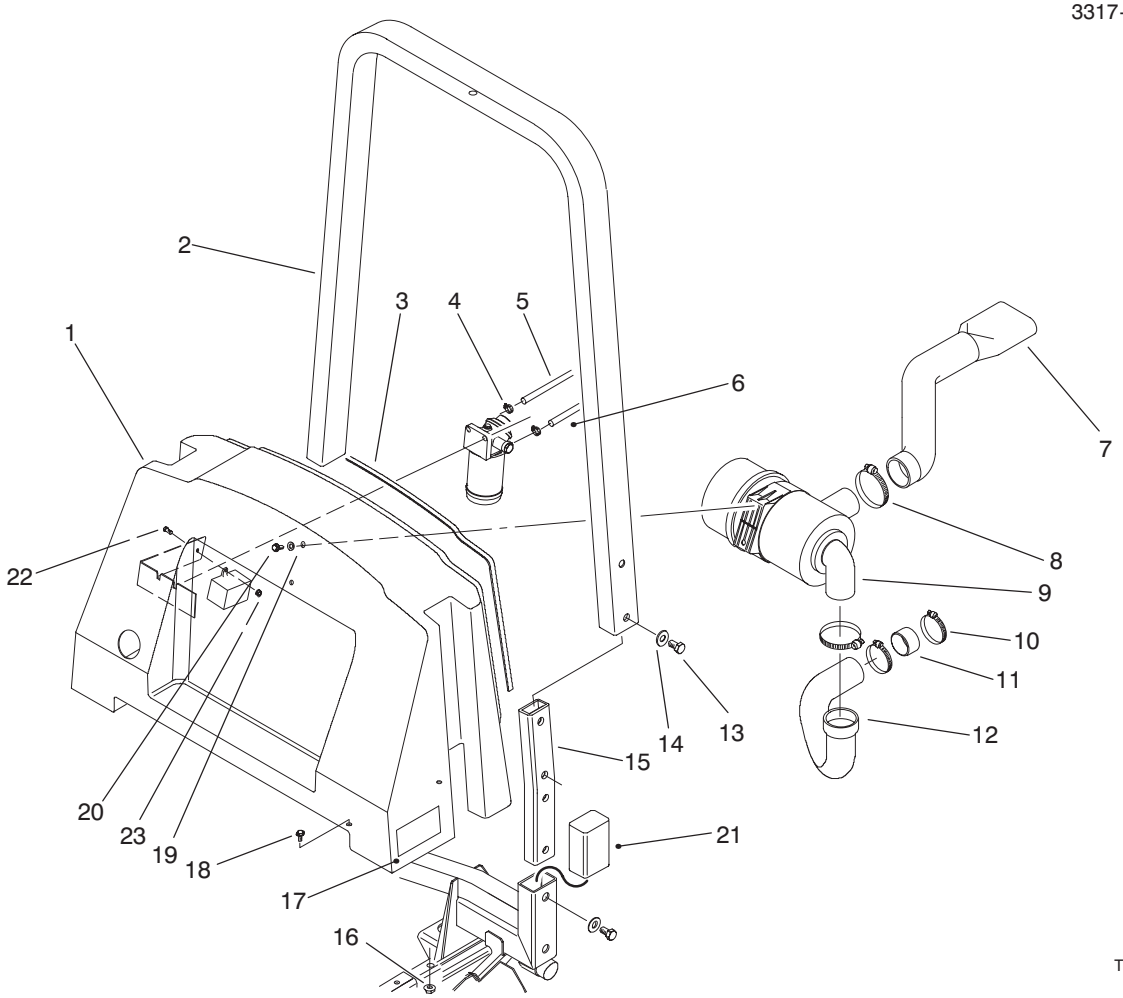
Information not available at time of printing.

REAR AXLE ASSEMBLY (MODEL NO. 30302)

Ref. No.	Part No.	Description	No. Used
1			

Ref. No.	Part No.	Description	No. Used

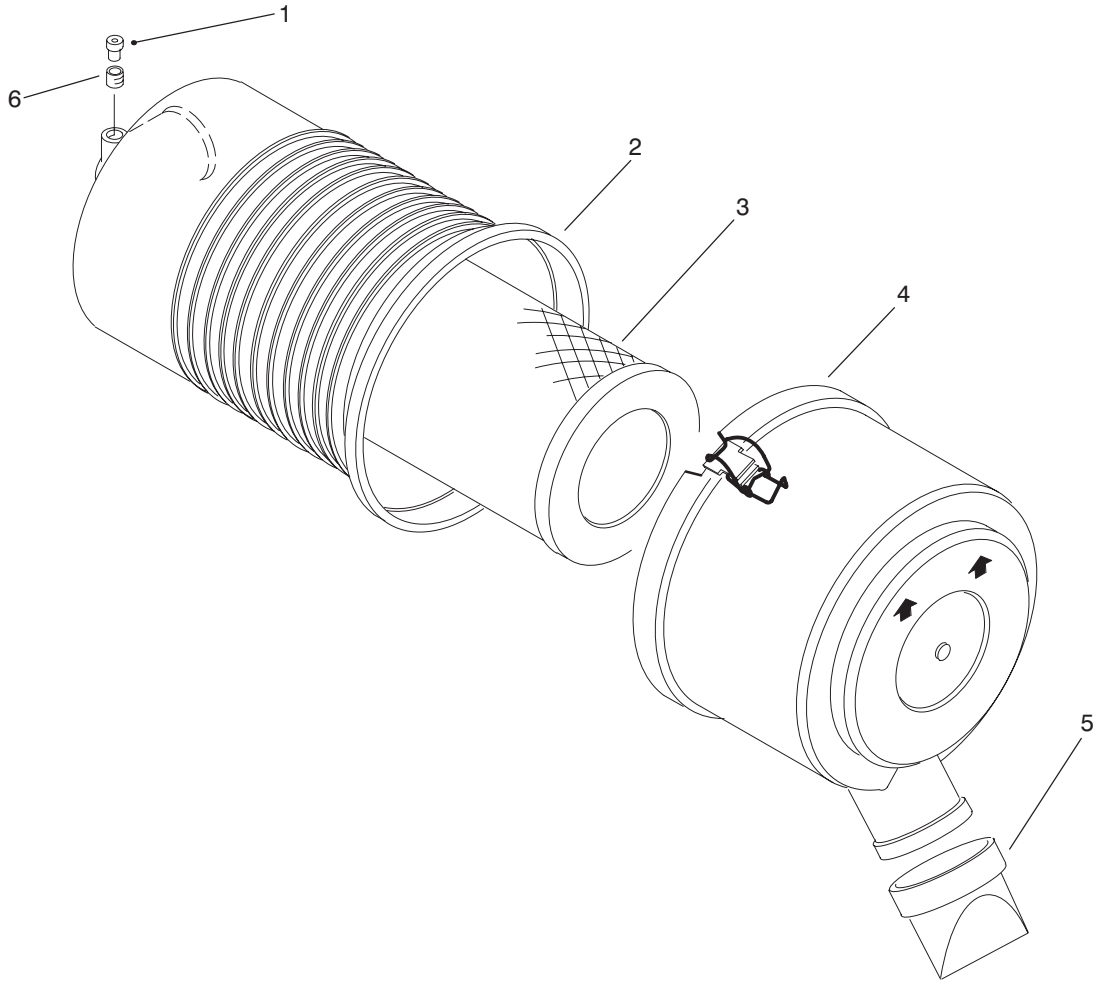
*Not Illustrated



CENTER SHROUD & AIR CLEANER ASM.

Ref. No.	Part No.	Description	No. Used
1	93–5082	Asm. – Shroud, Center	1
2	93–5044	Roll Over Protection System (Model No. 30302 Only)	1
3	93–5253	Strip – Foam, Hood	1
4	2412–108	Clamp – Hose	2
5	93–5482	Hose – Fuel	2
6	93–5484	Hose – Fuel	1
7	93–5083	Hose – Air Cleaner	1
8	2412–110	Clamp – Hose	3
9	93–5111	Air Cleaner	1
10	2412–130	Clamp – Hose	2
11	93–5427	Spacer – Intake	1
12	93–5084	Hose – Air Cleaner	1
13	93–5420	Screw – Cap (Model No. 30302 Only)	8

Ref. No.	Part No.	Description	No. Used
14	3256–6	Washer – Flat (Model No. 30302 Only)	8
15	93–5157	Bar (Model No. 30302 Only)	2
16	33004–00	Nut – HF	2
17	94–3395	Decal – 4 WD (Model No. 30302 Only)	2
18	33104–016	Screw – HHF	4
19	33094–00	Washer – Flat	2
20	33104–020	Screw – HHF	2
21	93–5638	Cover – Tube (Model 30301 Only)	2
22	33113–020	Screw – HH	1
23	33003–00	Nut – HF	1

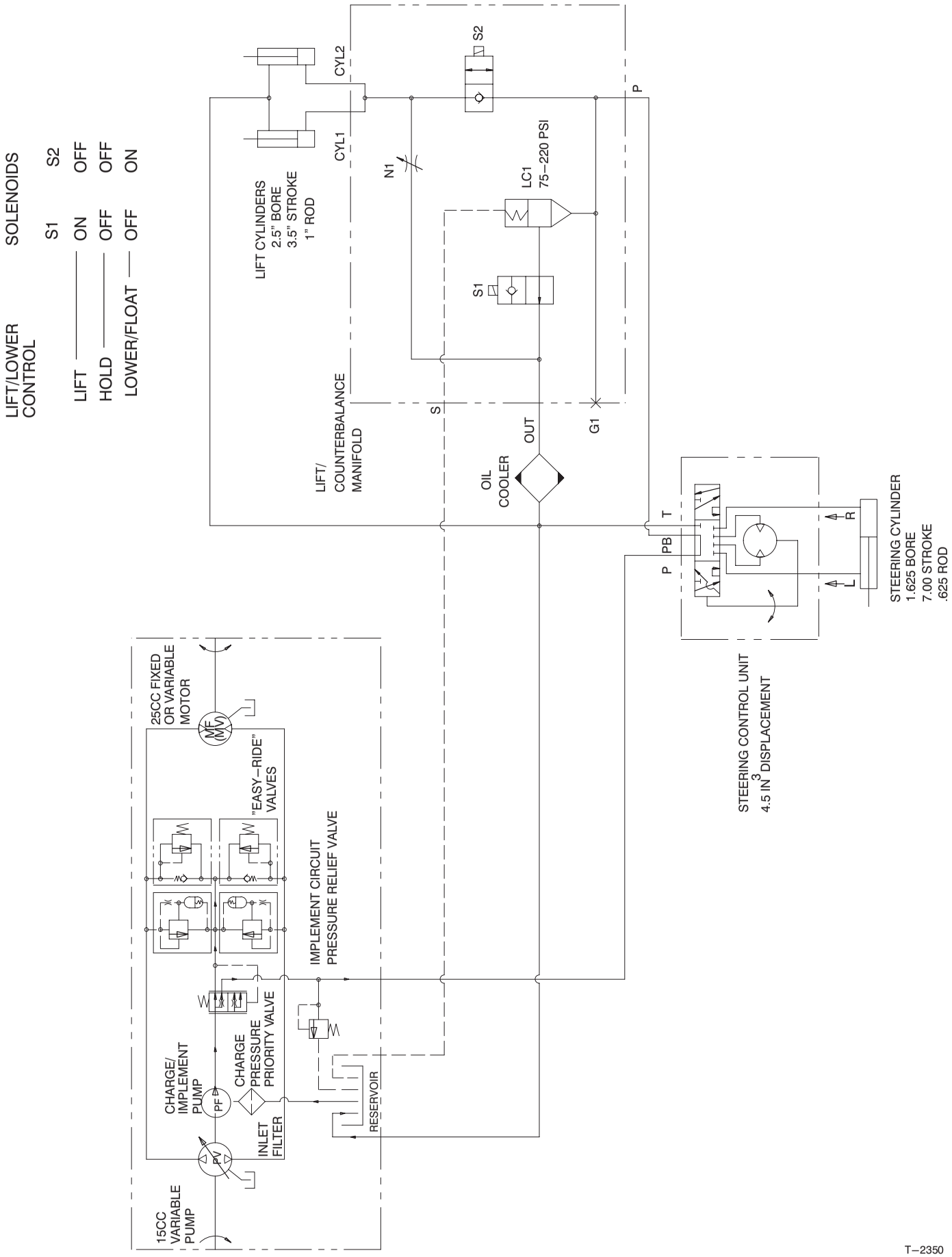


AIR CLEANER ASSEMBLY NO. 93–5111

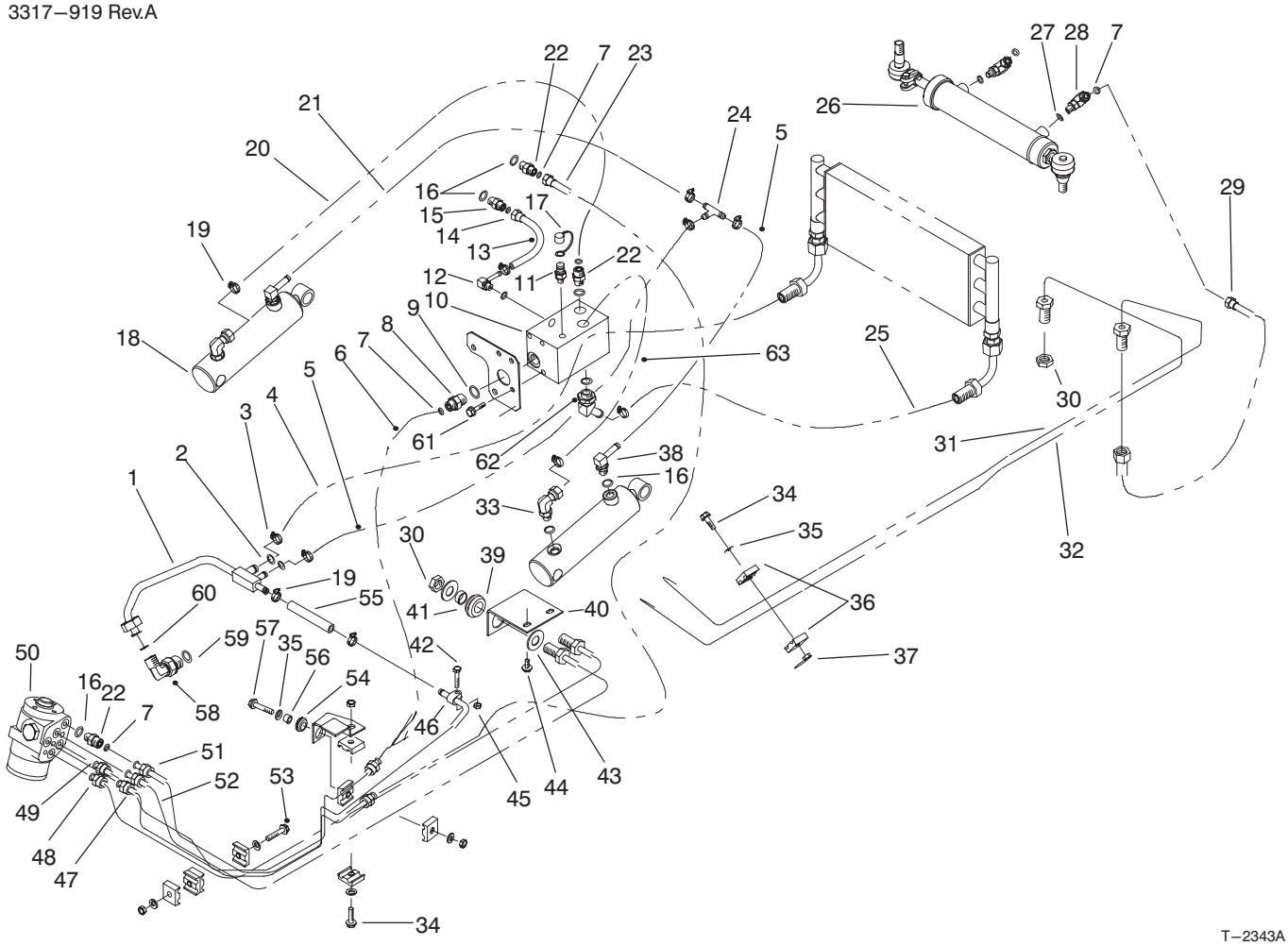
Ref. No.	Part No.	Description	No. Used
1	93–9164	Indicator	1
2		Assembly – Body	1
3	94–1412	Assembly – Element	1

Ref. No.	Part No.	Description	No. Used
4		Assembly – Cover	1
5	94–1414	Valve	1
6	94–1416	Assembly – Adapter	1

HYDRAULIC SCHEMATIC



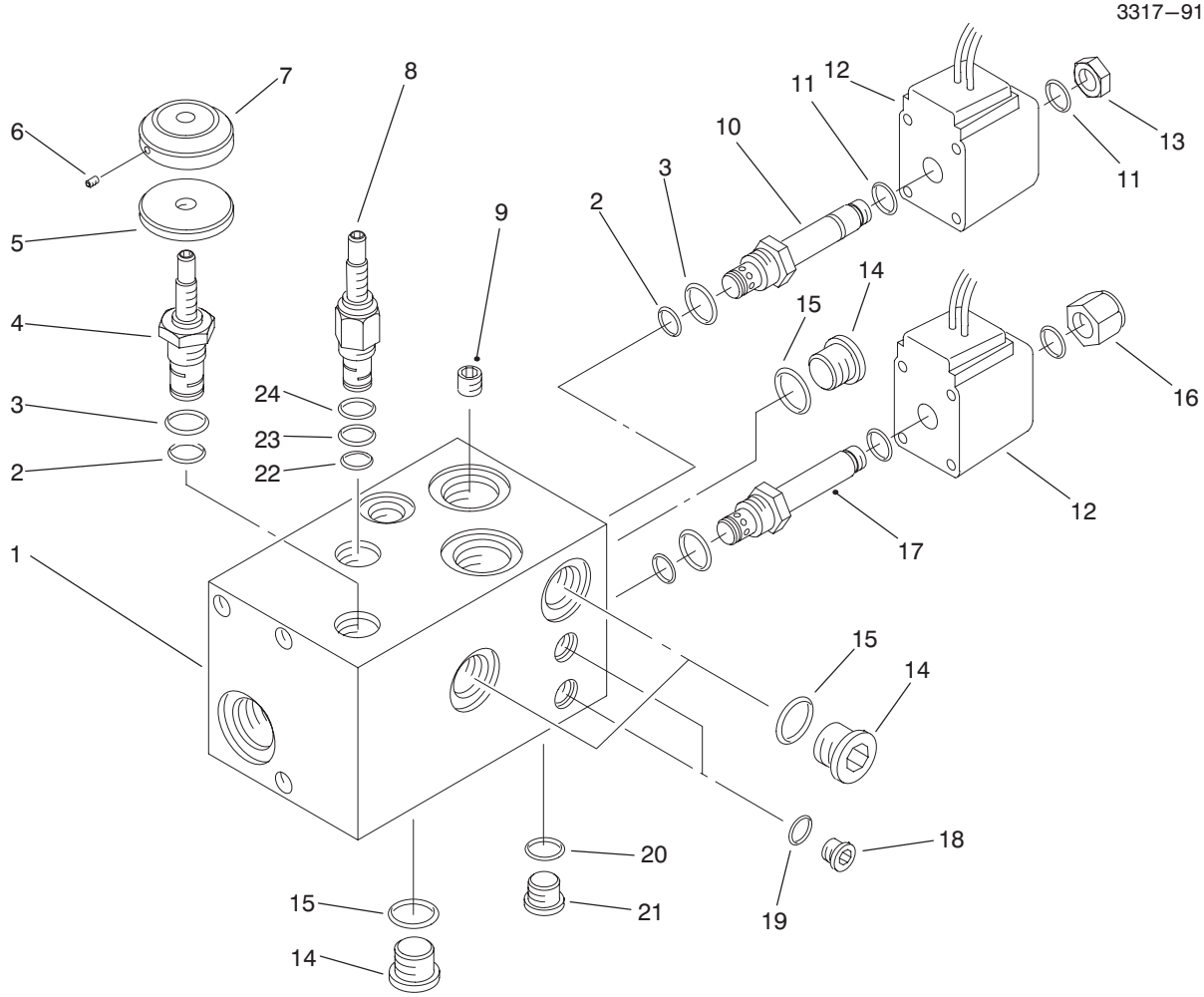
T–2350



HYDRAULIC COMPONENT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93−5578	Tube − Hydraulic	1
2		O−Ring	2
3	2412−36	Clamp − Hose	2
4	93−5360	Assembly − Hose	1
5	93−5358	Hose	2
6	93−5346	Assembly − Hose	1
7	237−22	O−Ring	10
8	340−3	Adapter	1
9	237−79	O−Ring	1
10	93−5115	Manifold	1
11	354−77	Fitting − Quick Connect	1
12	304−99	Fitting − Barbed	1
13	93−5361	Assembly − Hose	1
14	237−35	O−Ring	1
15	340−1	Fitting	1
16	237−42	O−Ring	9
17	353−947	Cap − Dust	1
18	93−4640	Cylinder − Hydraulic	2
19	2412−108	Clamp − Hose	9
20	93−5357	Hose	1
21	93−5386	Assembly − Hose	1
22	340−2	Adapter	8
23	93−5355	Assembly − Hose	1
24	354−107	Fitting − Tee	1
25	93−5356	Assembly − Hose	1
26	93−5502	Cylinder − Steering	1
27	237−78	O−Ring	2
28	340−97	Fitting 90°	2
29	93−5353	Assembly − Hose	2
30	340−70	Nut − Bulkhead	4
31	93−5571	Tube − Hydraulic	1
32	93−5572	Tube − Hydraulic	1

Ref. No.	Part No.	Description	No. Used
33	340−77	Elbow 90°	2
34	33104−035	Screw − HHF	2
35	3256−23	Washer − Flat	5
36	56−7973	Clamp − Tube	10
37	33024−00	Nut − Lock	4
38	354−135	Fitting − Barb 90°	2
39	240−4	Grommet	2
40	93−5587	Bracket − Bulkhead	1
41	69−8970	Spacer	2
42	33113−035	Screw − HH	1
43	69−8940	Washer	4
44	33104−016	Screw − HHF	2
45	33023−00	Nut − Lock	1
46	2412−114	Clamp − Tube	1
47	93−5574	Tube − Hydraulic	1
48	93−5576	Tube − Hydraulic	1
49	93−5575	Tube − Hydraulic	1
50	93−5165	Steering Control Unit	1
51	93−5573	Tube − Hydraulic	1
52	93−5577	Tube − Hydraulic	1
53	33114−045	Screw − HH	1
54	93−5108	Grommet − Rubber	1
55	93−5589	Hose	1
56	93−5109	Spacer	1
57	33104−040	Screw − HHF	1
58	340−105	Elbow	1
59		O−Ring	1
60		O−Ring	1
61	33104−025	Screw − HHF	3
62	354−126	Fitting − Barbed 45°	1
63	93−5385	Assembly − Hose	1



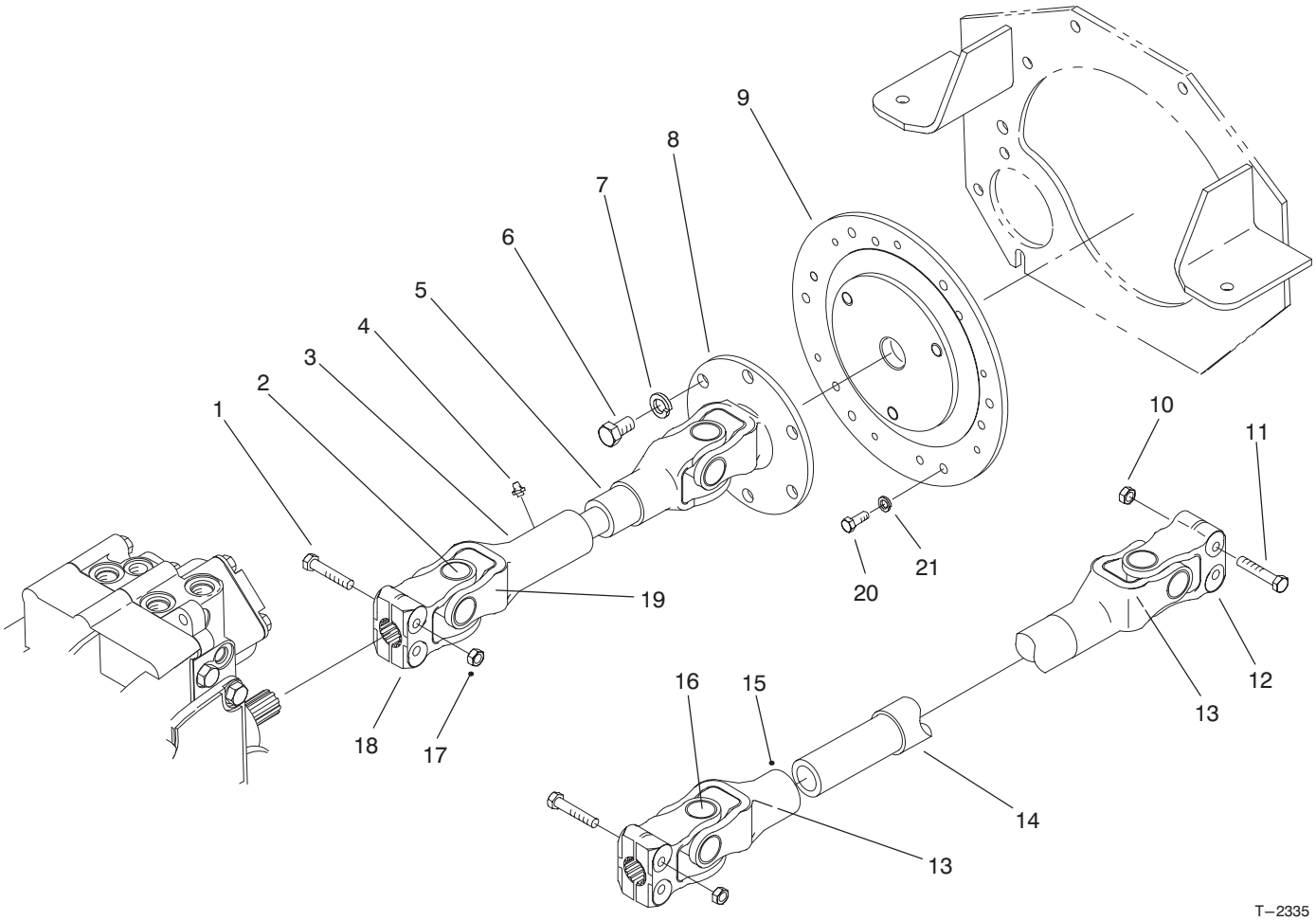
T–2254

MANIFOLD ASSEMBLY NO. 93–5115

Ref. No.	Part No.	Description	No. Used
†1		Body	1
†2		O–Ring	3
†3		O–Ring	3
4	93–5944	Valve – Needle (Incl. Ref, #2, 3, & 5–7)	1
†5		Wheel	1
†6		Screw – Set	1
7	93–5948	Knob – Knurled (Incl. Ref. #5 & 6)	1
8	93–5943	Valve – Logic (Incl. Ref. #22–24)	1
9	93–5945	Plug – Orifice (Optional)	1
10	92–6315	Cartridge – NC, Poppet (Incl. Ref. #2, 3, 11 & 13)	1
11	94–5438	O–Ring	4
12	88–9190	Kit – Solenoid Coil	2
13	3219–10	Nut	1
14	353–989	Plug (Incl. Ref. #15)	4

Ref. No.	Part No.	Description	No. Used
15	237–42	O–Ring	4
†16		Nut	1
17	93–7494	Cartridge – NO, Poppet (Incl. Ref. #2, 3, 11 & 16)	1
18	353–991	Plug (Incl. Ref. #19)	4
19	237–156	O–Ring	4
20	237–78	O–Ring	1
21	353–990	Plug (Incl. Ref. #20)	1
†22		O–Ring	1
†23		O–Ring	1
†24		O–Ring	1
*	69–4240	Kit – Seal (Incl. Ref. #22–24)	1
*	75–2080	Kit – Seal (Incl. Ref. #2 & 3)	1

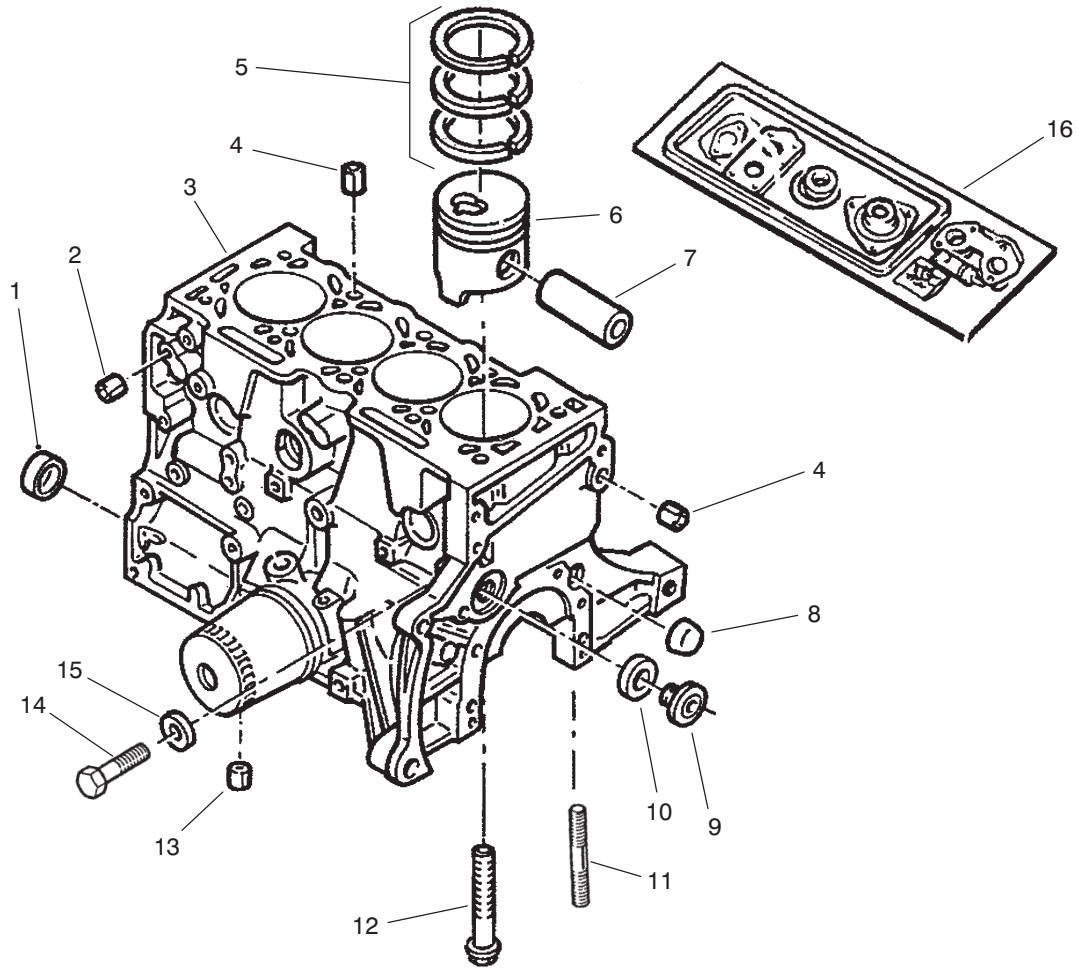
*Not Illustrated
†Not Serviced Separately.



DRIVE SHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	33114–045	Screw – HH	2
2	93–5561	Kit – Cross & Bearing	2
3	93–5563	Yoke – Slip	1
4		Fitting – Grease	2
5	93–5562	Yoke & Shaft	1
6	33106–020	Screw – HHF	3
7	3253–7	Washer – Lock	3
8	93–5559	Yoke – Flange	1
9	93–5043	Plate – Adapter, Engine	1
10	33024–00	Nut – Lock (Model 30302)	4
11	33114–045	Screw – HH (Model 30302)	4
12	93–5560	Yoke – Clamp (Model 30302)	2
13		Fitting – Grease 45° (Model 30302)	2

Ref. No.	Part No.	Description	No. Used
14	93–5565	Yoke & Sleeve (Model 30302)	1
15	93–5564	Yoke & Shaft (Model 30302)	1
16	93–5561	Kit – Cross & Bearing (Model 30302)	2
17	33024–00	Nut – Lock	2
18	93–5560	Yoke & Clamp	1
19		Fitting – Grease 45°	2
20	93–5398	Screw – HH	6
21	3253–4	Washer – Lock	6
*	93–5041	Asm. – Drive Shaft, Engine (Incl. Ref. #2–5, 8, 18, & 19)	1
*	93–5042	Asm. – Drive Shaft (Model 30302 Only) (Incl. Ref. #4, & 12–16)	1



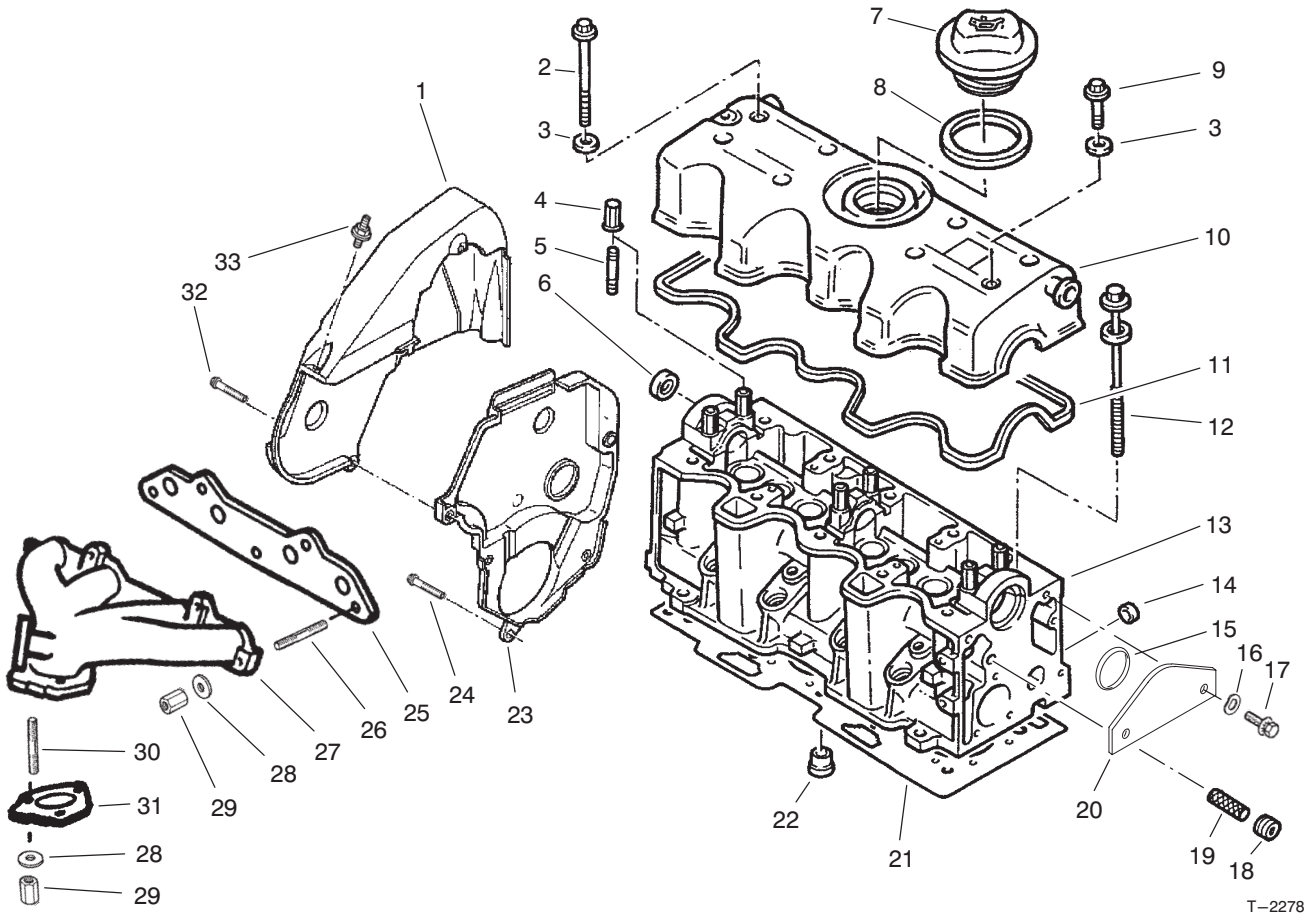
T–2277

CYLINDER BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	74–7840	Plug	7
2	93–5659	Pin (Dowel–Ring)	2
3	93–5651	Cylinder Block Assembly (Incl. Ref. #5–7)	1
4	76–5690	Pin (Dowel–Ring)	4
5	93–5714	Piston Ring Set (Set of 3)	1
†6		Piston	4
†7		Pin–Wrist	4
8	93–5656	Plug	1

Ref. No.	Part No.	Description	No. Used
9	94–3121	Threaded Plug	2
10	93–5653	Plug Seal	2
11	93–5660	Stud	3
12	93–5657	Screw	10
13	93–5658	Pin (Dowel)	1
14	74–7790	Screw	1
15	93–5654	Plug Seal	1
16	93–5652	Engine Gasket Set	1
*	93–5650	Engine – Stripped	1
*	93–5965	Block – Cylinder	1

*Not Illustrated
† Not Serviced Separately.

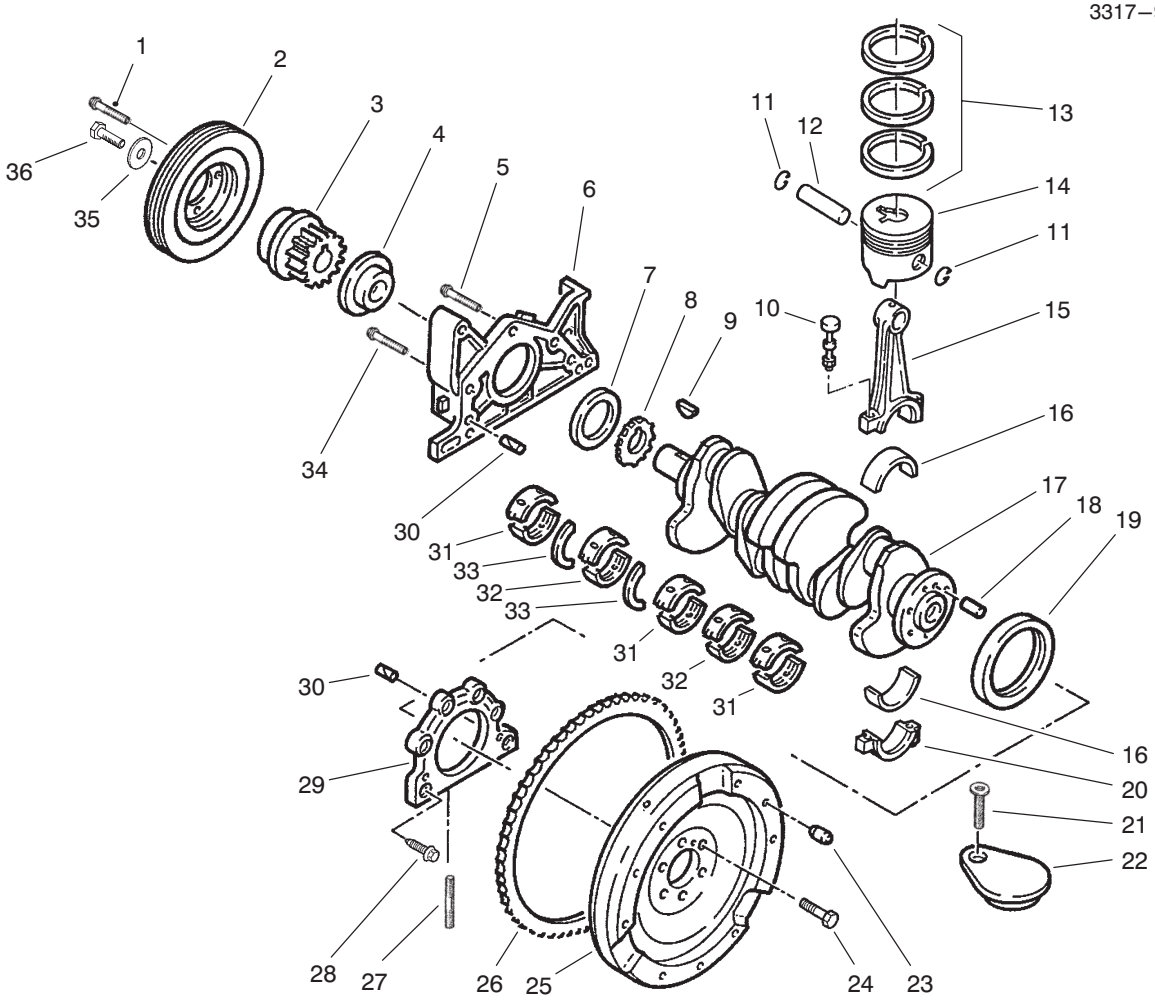


CYLINDER HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5676	Upper Cover	1
2	93–5672	Screw	4
3	93–5669	Gasket	8
4	93–5674	Nut	6
5	94–3162	Stud	6
6	74–7840	Plug	2
7	93–5668	Asm. – Oil Cap Filler (Incl. Ref. #8)	1
†8		Seal – Cap	1
9	93–5673	Screw	4
10	93–5662	Cover (Incl. Ref. #11)	1
11	93–5665	Gasket	1
*	93–5666	Gasket	1
12	94–4146	Screw	10
13	93–5661	Cylinder Head	1
14	93–5669	Plug	4
15	93–5926	O–Ring	1
16	93–5928	Spring Washer	2

Ref. No.	Part No.	Description	No. Used
17	93–5927	Screw	2
18	94–3118	Plug	2
19	93–5670	Filter Element	1
20	93–5925	Cover Plate	1
21	93–5947	Cyl. Head Gasket	1
22	94–4145	Swirl Chamber	4
23	93–5677	Lower Cover	1
24	93–5678	Screw	5
25	93–5894	Gasket	1
26	93–5895	Stud	5
27	93–5893	Exhaust Manifold	1
28	93–5897	Plate Washer	8
29	93–5896	Hexagonal Nut	8
30	93–5898	Stud	3
31	93–5892	Pipe Gasket	1
32	93–5680	Screw	1
33	93–5679	Screw	1
*	93–5664	Cylinder Head Gasket Set	1

*Not Illustrated
† Not Serviced Separately.

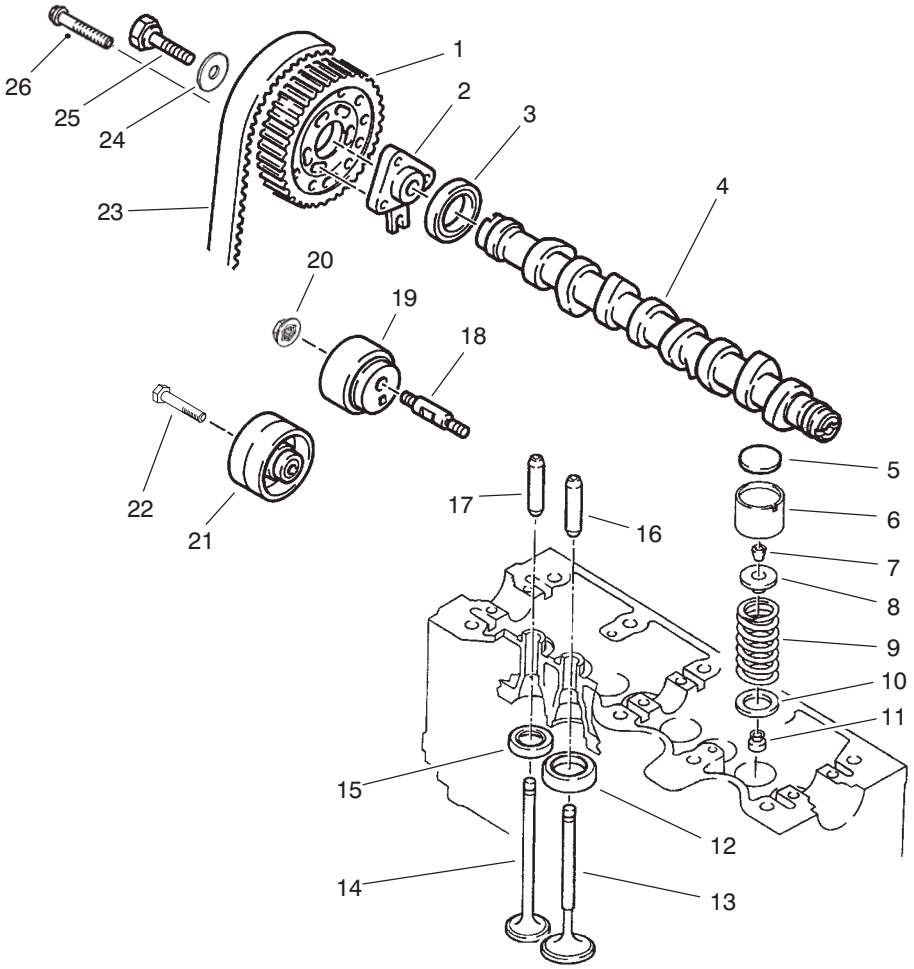


PISTON & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–3112	Screw	4
2	93–5685	Crankshaft Pulley	1
3	93–5684	Gear	1
4	93–5699	Spacer	1
5	93–5710	Screw	2
6	93–5687	Gasket Plate	1
7	93–5701	Gasket	1
8	93–5698	Oil Pump Gear	1
9	93–5703	Key	1
10	93–5715	Connecting Rod Bolt	8
11	93–5716	Circlip	8
†12		Pin – Wrist	4
13	93–5714	Set Of 3 Piston Rings	4
†14		Piston	4
15	93–5712	Set Of 4 Connecting Rods (Incl. Ref. #10 & 20)	1
16	93–5713	Set Of 8 Half Bearings	1
17	93–5681	Crankshaft	1
18	74–8250	Pin	1
19	93–5702	Gasket	1
†20		Cap – Connecting Rod	4
21	93–5709	Screw	1
22	93–5700	Plug	1

Ref. No.	Part No.	Description	No. Used
23	93–5705	Pin	3
24	93–5708	Screw	6
25	93–5682	Engine Flywheel (Incl. Ref. #26)	1
26	93–5683	Starter Ring Gear	1
27	93–5707	Stud	2
28	93–5704	Screw	6
29	93–5686	Gasket Plate	1
30	93–5706	Pin	4
31	93–5688	Half Bearing	6
*	93–5689	Half Bearing	6
*	93–5690	Half Bearing	6
32	93–5691	Half Bearing	4
*	93–5692	Half Bearing	4
*	93–5693	Half Bearing	4
33	93–5694	Half Flanges	2
*	93–5695	Half Flanges	2
*	93–5696	Half Flanges	2
*	93–5697	Half Flanges	2
34	93–5711	Screw	3
35	74–8080	Plate Washer	1
36	94–3145	Pulley Screw	1

*Not Illustrated
† Not Serviced Separately.



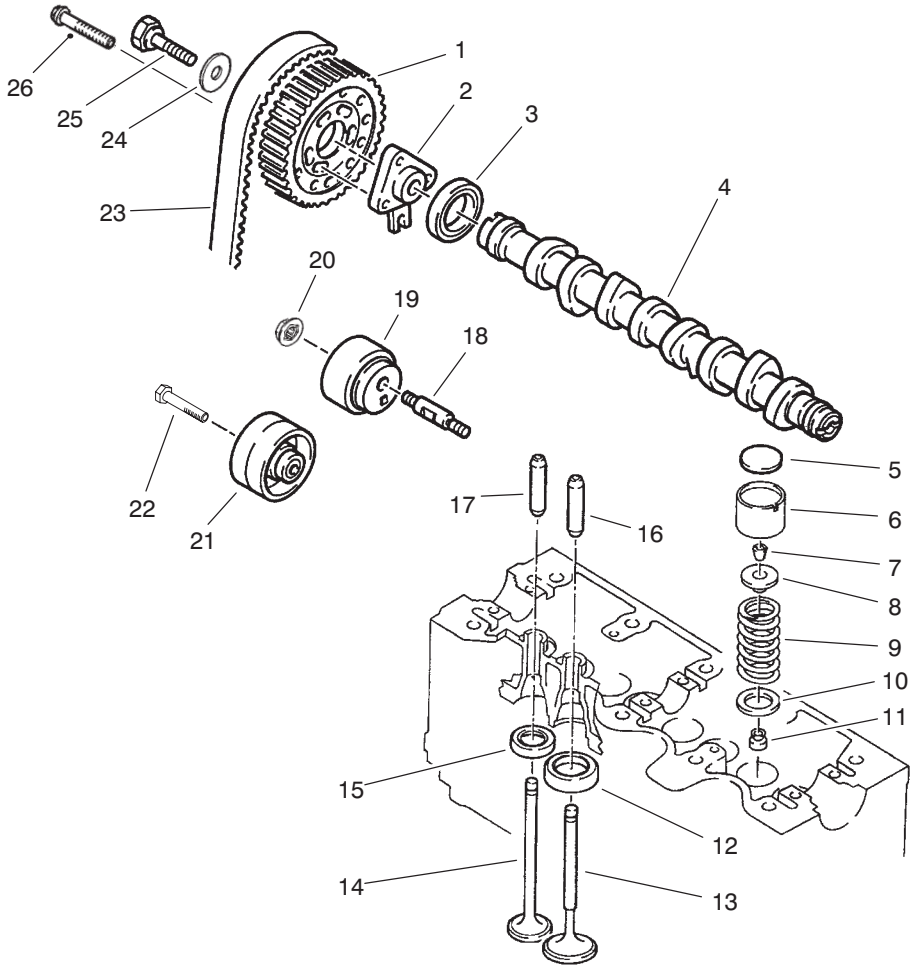
T–2280

CAMSHAFT & VALVES ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5719	Camshaft Gear	1
2	93–5723	Pulley Hub	1
3	93–5718	Camshaft Seal	1
4	93–5717	Camshaft	1
5	93–5742	Shim – Tappet (3.20 mm)	8
*	93–5743	Shim – Tappet (3.25 mm)	8
*	93–5744	Shim – Tappet (3.30 mm)	8
*	93–5745	Shim – Tappet (3.35 mm)	8
*	93–5746	Shim – Tappet (3.40 mm)	8
*	93–5747	Shim – Tappet (3.45 mm)	8
*	93–5748	Shim – Tappet (3.50 mm)	8
*	93–5749	Shim – Tappet (3.55 mm)	8
*	93–5750	Shim – Tappet (3.60 mm)	8
*	93–5751	Shim – Tappet (3.65 mm)	8
*	93–5752	Shim – Tappet (3.70 mm)	8
*	93–5753	Shim – Tappet (3.72 mm)	8
*	93–5754	Shim – Tappet (3.75 mm)	8
*	93–5755	Shim – Tappet (3.77 mm)	8
*	93–5756	Shim – Tappet (3.80 mm)	8
*	93–5757	Shim – Tappet (3.82 mm)	8
*	93–5758	Shim – Tappet (3.85 mm)	8
*	93–5759	Shim – Tappet (3.87 mm)	8
*	93–5760	Shim – Tappet (3.90 mm)	8
*	93–5761	Shim – Tappet (3.92 mm)	8
*	93–5762	Shim – Tappet (3.95 mm)	8
*	93–5763	Shim – Tappet (3.97 mm)	8

Ref. No.	Part No.	Description	No. Used
*5	93–5764	Shim – Tappet (4.00 mm)	8
*	93–5765	Shim – Tappet (4.02 mm)	8
*	93–5766	Shim – Tappet (4.05 mm)	8
*	93–5767	Shim – Tappet (4.07 mm)	8
*	93–5768	Shim – Tappet (4.10 mm)	8
*	93–5769	Shim – Tappet (4.12 mm)	8
*	93–5770	Shim – Tappet (4.15 mm)	8
*	93–5771	Shim – Tappet (4.17 mm)	8
*	93–5772	Shim – Tappet (4.20 mm)	8
*	93–5773	Shim – Tappet (4.22 mm)	8
*	93–5774	Shim – Tappet (4.25 mm)	8
*	93–5775	Shim – Tappet (4.27 mm)	8
*	93–5776	Shim – Tappet (4.30 mm)	8
*	93–5777	Shim – Tappet (4.32 mm)	8
*	93–5778	Shim – Tappet (4.35 mm)	8
*	93–5779	Shim – Tappet (4.37 mm)	8
*	93–5780	Shim – Tappet (4.40 mm)	8
*	93–5781	Shim – Tappet (4.42 mm)	8
*	93–5782	Shim – Tappet (3.45 mm)	8
*	93–5783	Shim – Tappet (4.47 mm)	8
*	93–5784	Shim – Tappet (4.50 mm)	8
*	93–5785	Shim – Tappet (4.52 mm)	8
*	93–5786	Shim – Tappet (4.55 mm)	8
*	93–5787	Shim – Tappet (4.57 mm)	8
*	93–5788	Shim – Tappet (4.60 mm)	8
*	93–5789	Shim – Tappet (4.62 mm)	8

*Not Illustrated



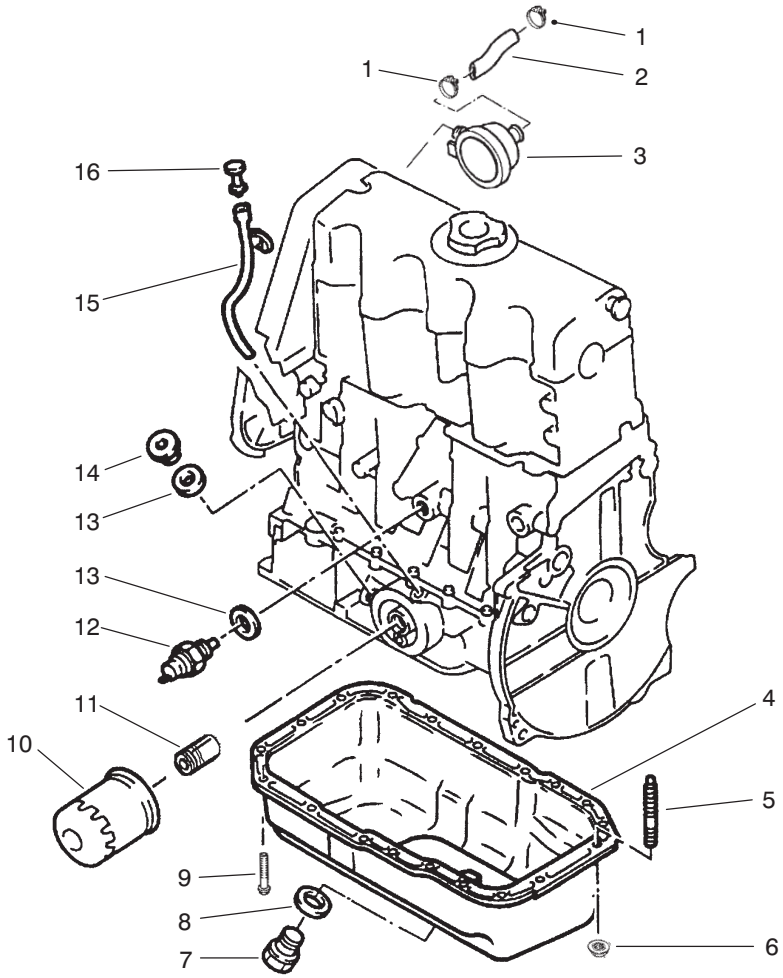
T−2280

CAMSHAFT & VALVES ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
*5	93−5790	Shim − Tappet (4.65 mm)	8
*	93−5791	Shim − Tappet (4.67 mm)	8
*	93−5792	Shim − Tappet (4.70 mm)	8
*	93−5793	Shim − Tappet (4.72 mm)	8
*	93−5794	Shim − Tappet (4.75 mm)	8
*	93−5795	Shim − Tappet (4.77 mm)	8
*	93−5796	Shim − Tappet (4.80 mm)	8
*	93−5797	Shim − Tappet (4.82 mm)	8
*	93−5798	Shim − Tappet (4.85 mm)	8
*	93−5799	Shim − Tappet (4.87 mm)	8
*	93−5800	Shim − Tappet (4.90 mm)	8
6	93−5736	Tappet	8
7	93−5734	Valve Half Bush	16
8	93−5733	Valve Spring Seat	8
9	93−5732	Valve Spring	8
10	93−5741	Flat Washer	8

Ref. No.	Part No.	Description	No. Used
11	93−5735	Valve Seal	8
12	93−5739	Inlet Seat Valve	4
13	93−5730	Intake Valve	4
14	93−5731	Exhaust Valve	4
15	93−5740	Outlet Seat Valve	4
16	93−5737	Inlet Valve Guide	4
17	93−5738	Outlet Valve Guide	4
18	93−5724	Tensioner Spindle	1
19	93−5721	Tensioner	1
20	93−5729	Nut	1
21	93−5722	Roller	1
22	93−5726	Screw	1
23	93−5720	Cogged Belt	1
24	93−5728	Plate Washer	1
25	93−5725	Pulley Screw	1
26	93−5851	Screw	3

*Not Illustrated

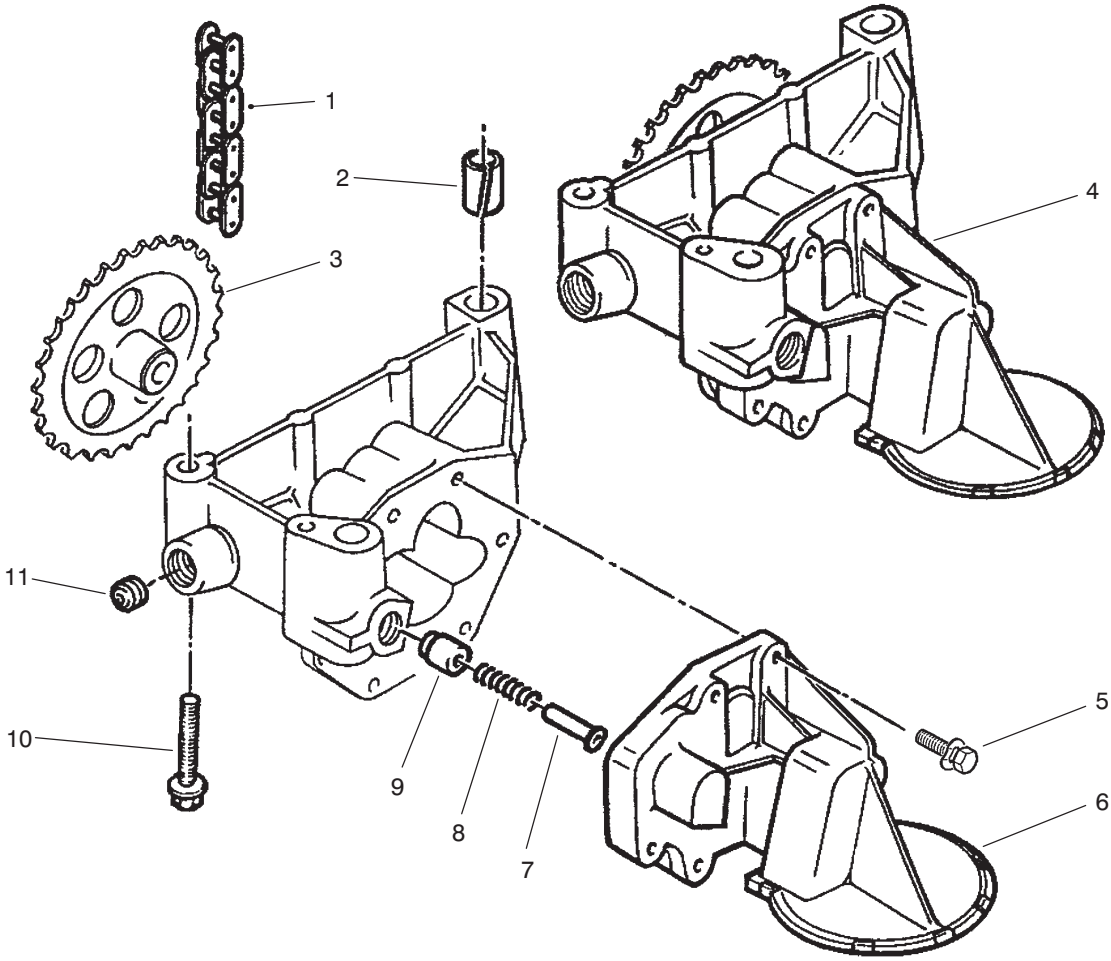


T–2281

OIL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5818	Clamp	2
2	93–5817	Union	1
3	93–5816	Regulator	1
4	93–5810	Oil Sump	1
5	93–5660	Stud	3
6	93–5815	Nut	3
7	74–7310	Drain Plug	1
8	74–7320	Gasket	1
9	93–5704	Screw	16

Ref. No.	Part No.	Description	No. Used
10	93–5808	Oil Filter – 1st Build Up	1
*	74–7970	Oil Filter – Service	1
11	93–5809	Adaptor	1
12	94–3180	Pressure Switch	1
13	93–5814	Gasket	2
14	93–5813	Threaded Plug	1
15	93–5811	Dipstick Guide	1
16	93–5812	Oil Dipstick	1



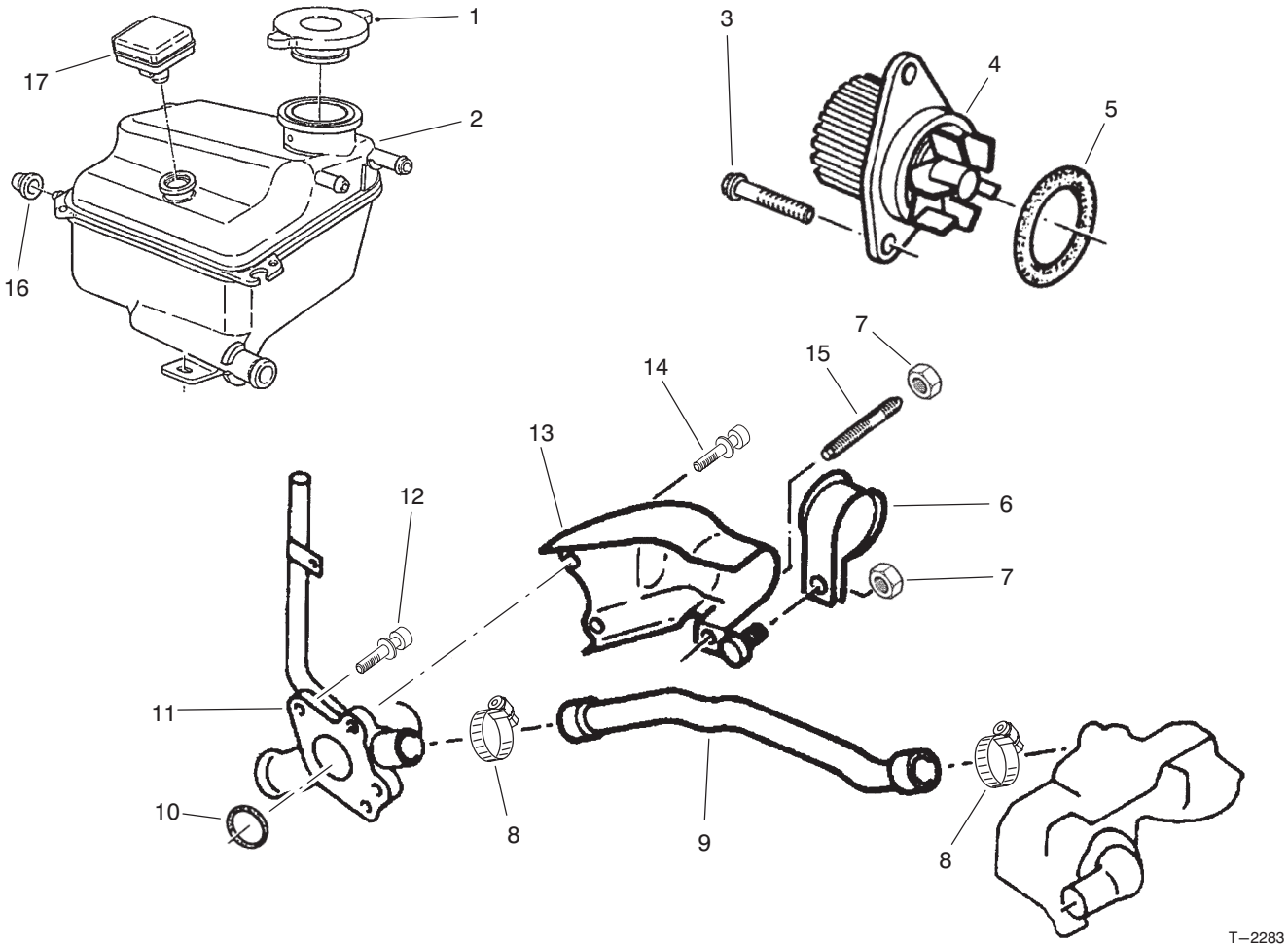
T–2282

OIL PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5804	Oil Pump Chain	1
2	93–5658	Pin	1
†3		Gear – Drive	1
4	93–5801	Oil Pump (Incl. Ref. #3)	1
5	93–5807	Screw	6

Ref. No.	Part No.	Description	No. Used
6	93–5802	Strainer	1
7	93–5806	Shaft	1
8	93–5805	Spring	1
9	94–3176	Plunger	1
10	93–5803	Screw	3
11	94–3177	Plug	1

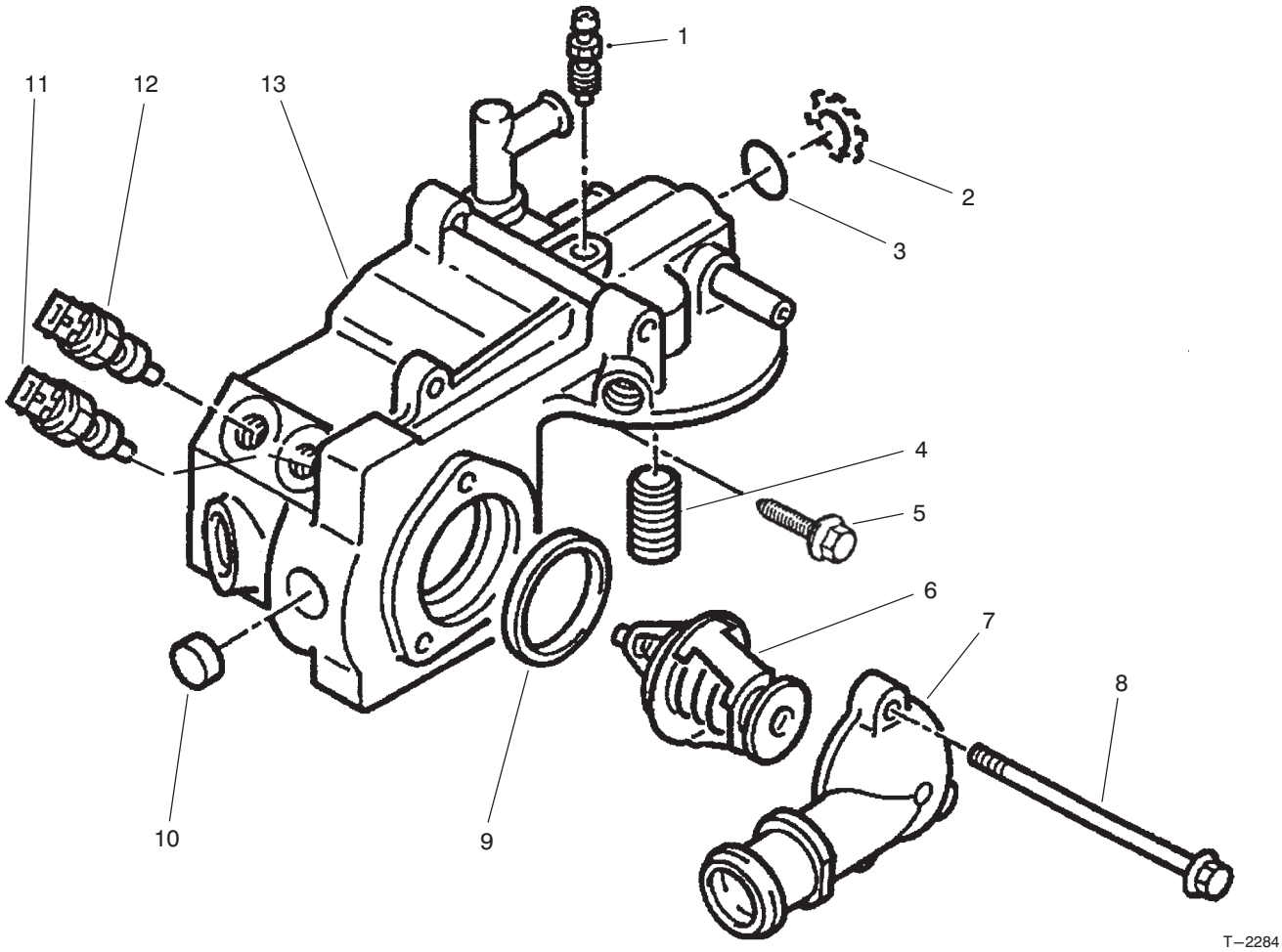
†Not Service Separately.



COOLANT SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–2800	Pressure Plug	1
2	93–7571	Degasing Box	1
3	94–3163	Screw	2
4	93–5820	Water Pump	1
5	93–5822	O–Ring	1
6	93–5826	Clip	1
7	94–3267	Nut	2
8	2412–129	Clamp	2
9	93–5824	By–pass Union	1

Ref. No.	Part No.	Description	No. Used
10	93–5821	O–Ring	1
11	93–5819	Water Inlet	1
12	93–5823	Screw	2
13	93–5825	Heat Shield	1
14	93–5827	Screw	2
15	93–5660	Stud	1
16	94–2801	Grommet	2
17	93–7572	Water Level Sensor	1



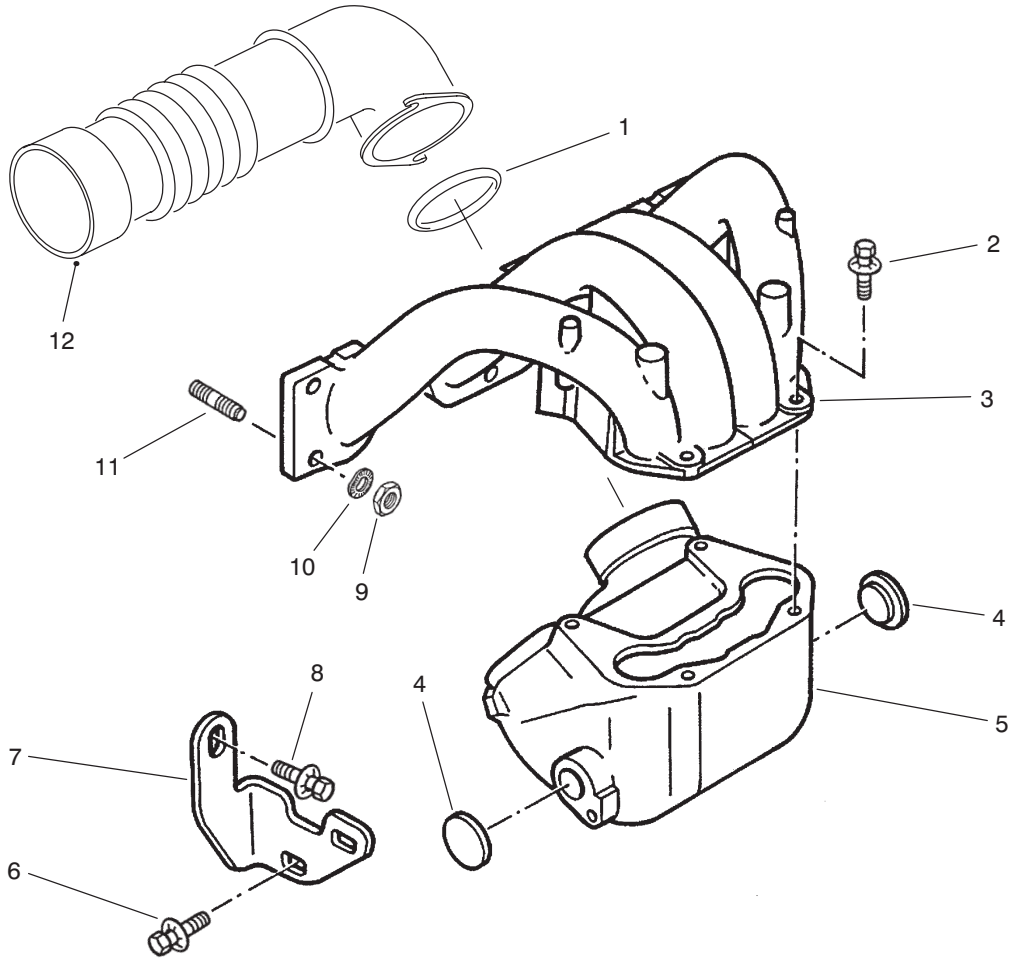
T–2284

COOLANT OUTLET BOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5835	Bleed Screw	1
2	93–5840	Washer	1
3	93–5838	O–Ring	2
4	93–5836	Insert	1
5	93–5807	Screw	1
6	93–5831	Thermostat	1
7	93–5830	Cover	1

Ref. No.	Part No.	Description	No. Used
8	93–5839	Screw	4
9	93–5837	Water Box Gasket	1
10	93–5833	Plug	1
*	93–5834	Plug	2
11	94–3211	Thermoswitch	1
12	93–5832	Sender	1
13	93–5829	Water Outlet Box	1

*Not Illustrated

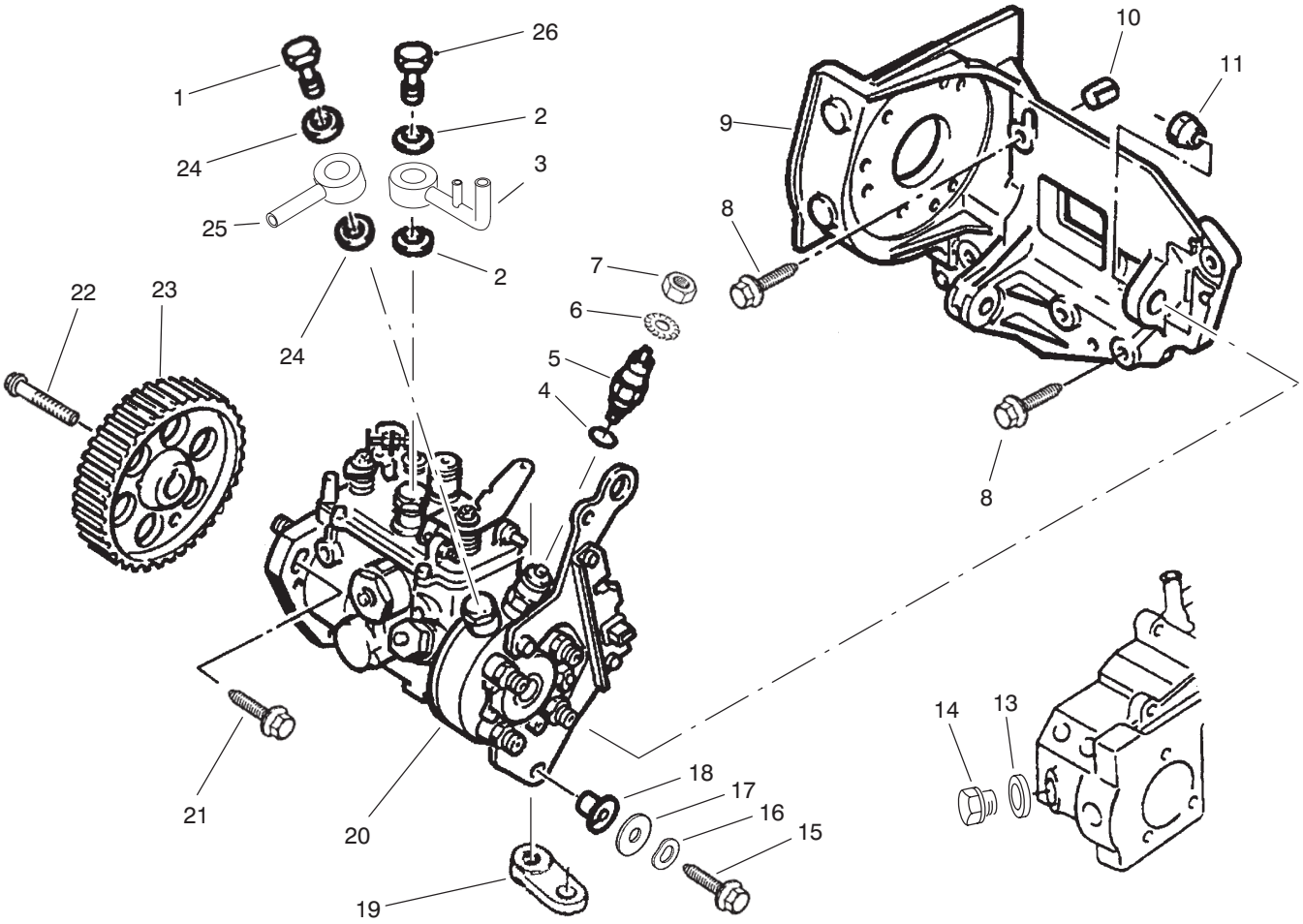


T–2285

INTAKE MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5841	O–Ring	1
2	93–5847	Screw	4
3	93–5843	Intake Manifold	1
4	93–5656	Plug	2
5	93–5844	Air Divider	1
6	94–3161	Screw	2

Ref. No.	Part No.	Description	No. Used
7	93–5845	Bracket	1
8	94–3131	Screw	1
9	94–3165	Nut	7
10	94–3164	Spring Washer	7
11	93–5846	Stud	7
12	93–5842	Air Union	1



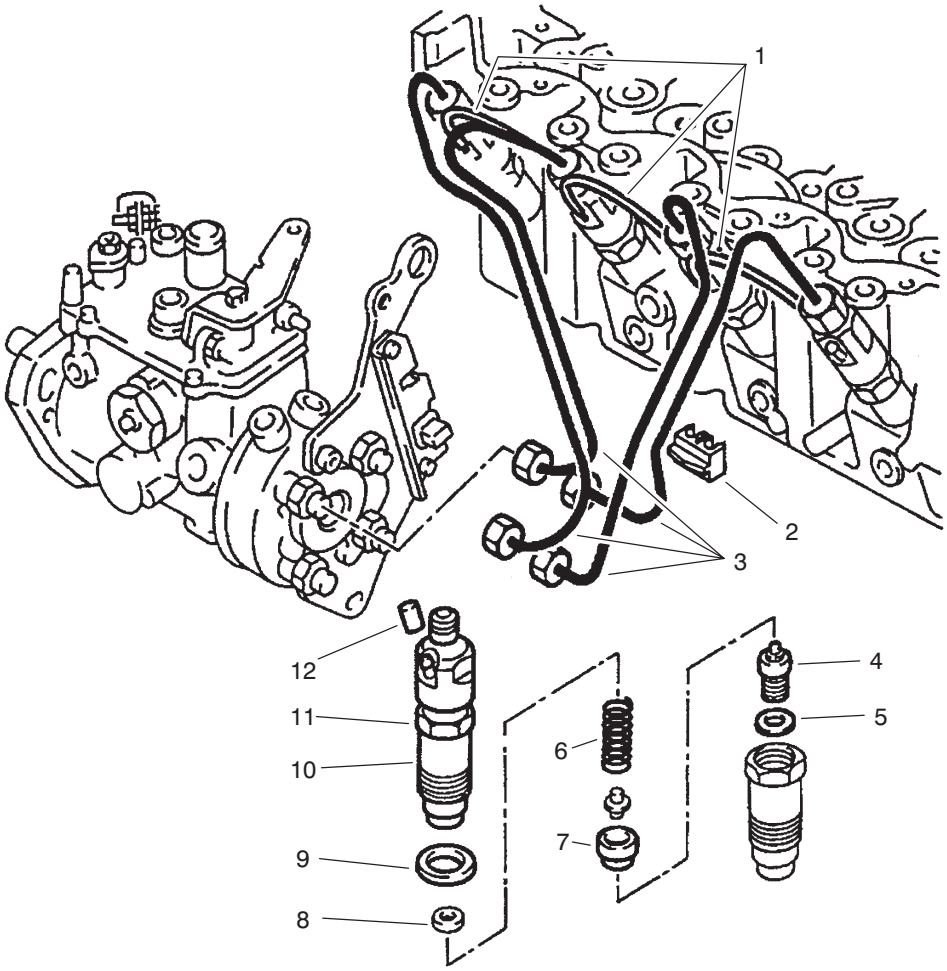
T–2286A

INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–4111	Union Screw – Inlet	1
2	74–8870	Gasket	2
3	93–5858	Outlet Union	1
4	94–3274	O–Ring	1
5	93–5856	Solenoid Valve	1
6	74–8710	Washer	1
7	94–3251	Nut	1
8	93–5852	Screw	5
*	93–5853	Screw	1
9	93–5849	Injection Pump Bracket	1
10	93–5659	Pin	2
11	94–3165	Hexagonal Nut	1
13	94–3122	Gasket	1

Ref. No.	Part No.	Description	No. Used
14	94–3121	Plug	1
15	94–3221	Screw	1
16	94–3164	Spring Washer	1
17	93–5855	Plate Washer	1
18	93–5909	Ring	1
19	74–8650	Journal	1
20	93–5848	Injection Pump	1
21	93–5854	Screw	3
22	93–5851	Screw	3
23	93–5719	Inj. Pump Gear	1
24	74–8680	Gasket	2
25	93–5857	Inlet Union	1
26	94–3250	Union Screw – Outlet	1

*Not Illustrated



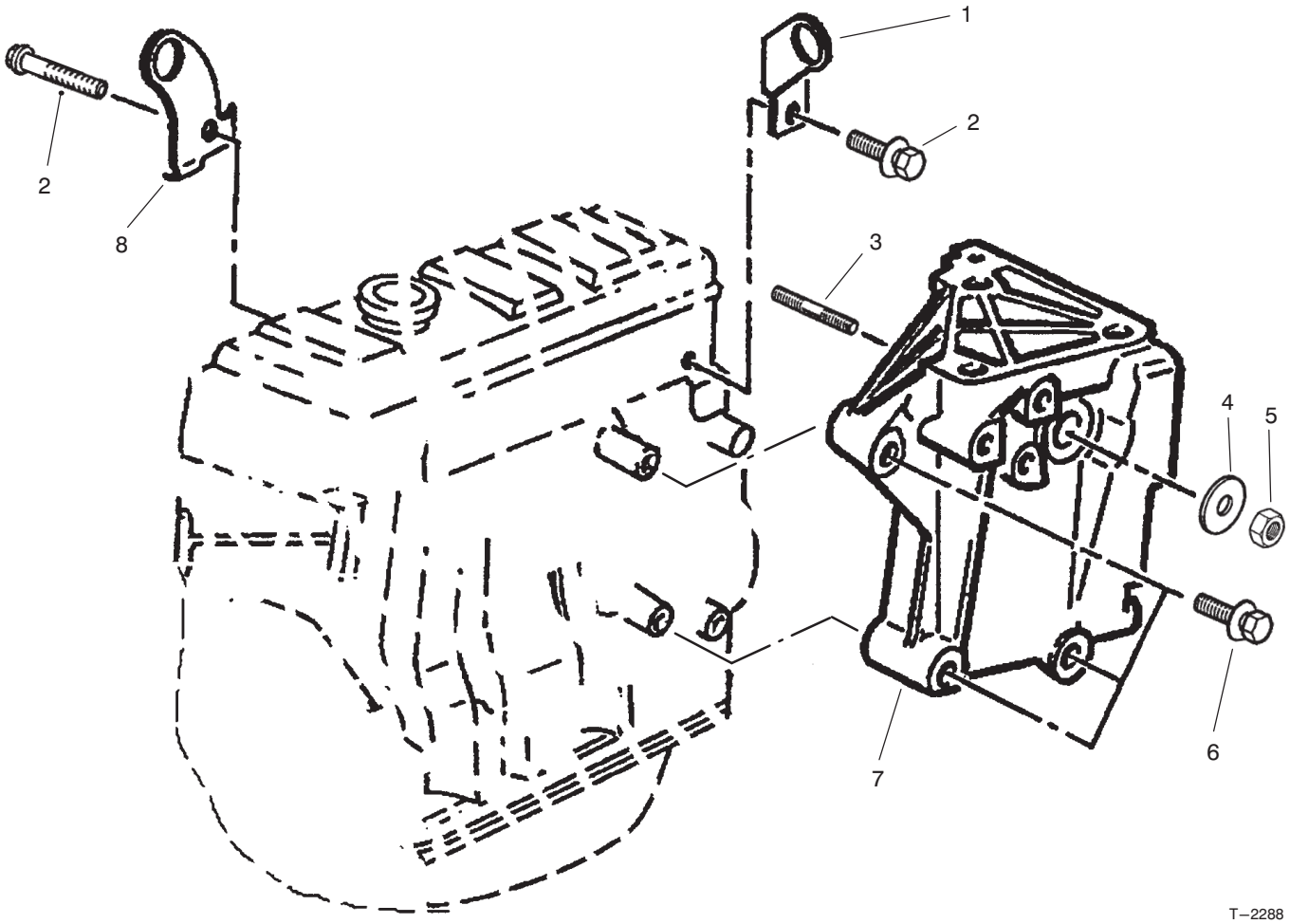
T–2287

FUEL INJECTOR & PLUMBING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5862	Union	3
*	93–5863	Union	1
2	94–3231	Bracket	4
3	93–5861	Pipes Harness	1
4	93–5860	Injector	4
5	93–5867	Injector Gasket	4
6	93–5864	Spring	4
7	93–5865	Spacer	4
8	93–5869	Shim (.680 mm)	1
*	93–5870	Shim (.720 mm)	1
*	93–5871	Shim (.760 mm)	1
*	93–5872	Shim (.800 mm)	1
*	93–5873	Shim (.840 mm)	1
*	93–5874	Shim (.880 mm)	1
*	93–5875	Shim (.920 mm)	1
*	93–5876	Shim (.960 mm)	1
*	93–5877	Shim (1.000 mm)	1
*	93–5878	Shim (1.035 mm)	3

Ref. No.	Part No.	Description	No. Used
*8	93–5879	Shim (1.065 mm)	1
*	93–5880	Shim (1.095 mm)	1
*	93–5881	Shim (1.125 mm)	1
*	93–5882	Shim (1.155 mm)	1
*	93–5883	Shim (1.185 mm)	1
*	93–5884	Shim (1.215 mm)	1
*	93–5885	Shim (1.245 mm)	1
*	93–5886	Shim (1.280 mm)	1
*	93–5887	Shim (1.320 mm)	1
*	93–5888	Shim (1.400 mm)	1
*	93–5889	Shim (1.480 mm)	1
*	93–5890	Shim (1.560 mm)	1
*	93–5891	Shim (1.640 mm)	1
9	93–5866	Injector Gasket	4
10	93–5868	Injector + Injector Holder	4
11	94–4147	Injector Holder	4
12	74–8770	Plug	1

*Not Illustrated

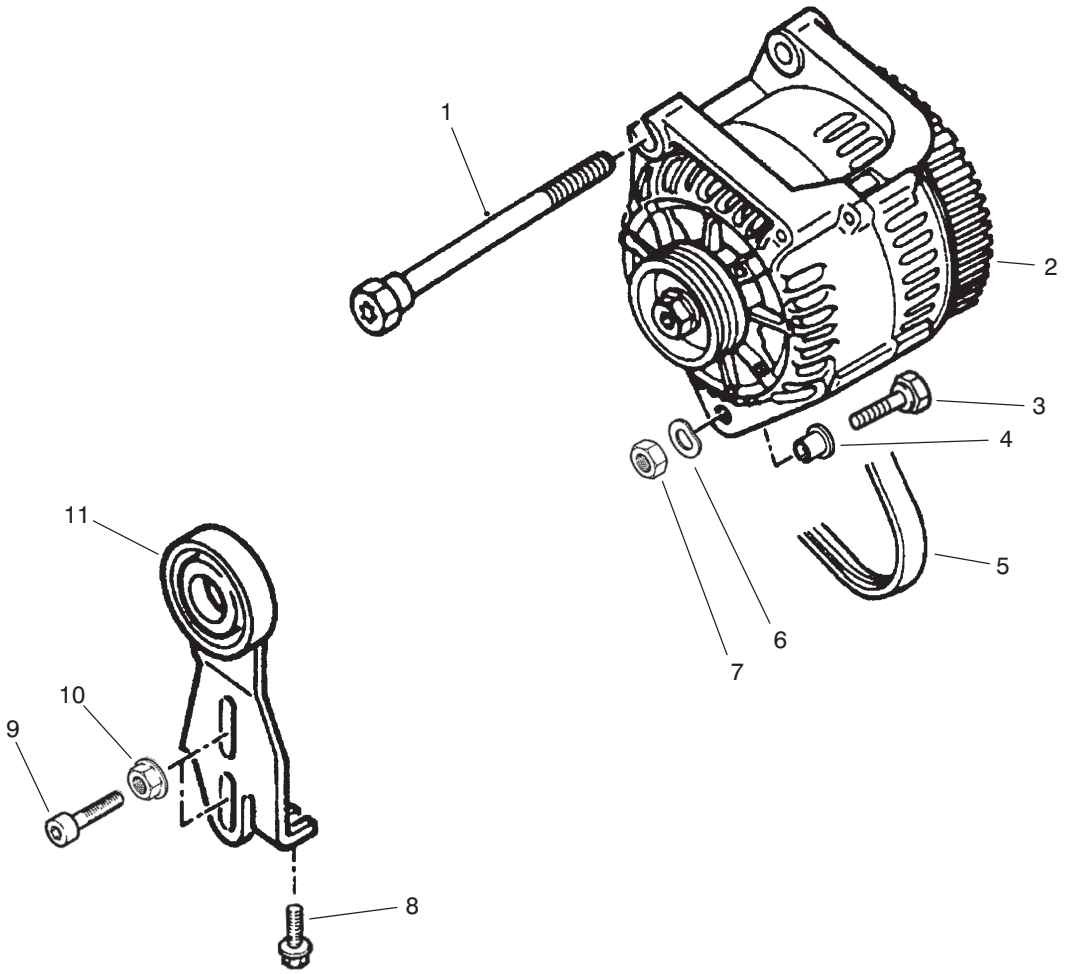


T–2288

ENGINE MOUNT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5901	Lifting Bracket	1
2	93–5906	Screw	4
3	93–5905	Stud	1
4	93–5904	Plate Washer	1

Ref. No.	Part No.	Description	No. Used
5	93–5903	Hexagonal Nut	1
6	93–5902	Screw	3
7	93–5899	Right Hand Engine Mount	1
8	74–7570	Lifting Bracket	1

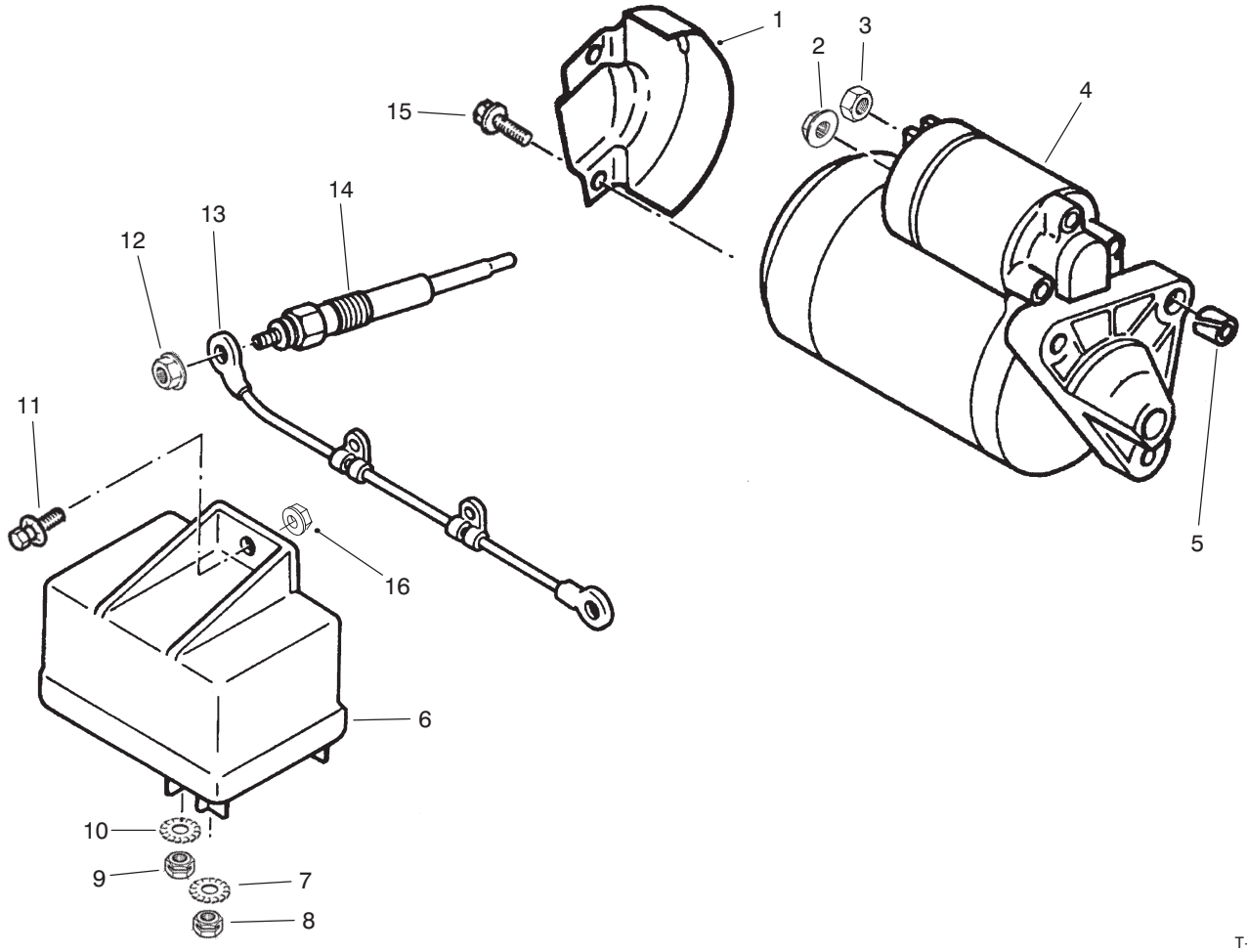


T–2289

ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5908	Screw	1
2	93–5907	Alternator	1
3	94–3221	Screw	1
4	93–5909	Ring	1
5	93–5912	Belt	1
6	94–3257	Washer	3

Ref. No.	Part No.	Description	No. Used
7	77–3320	Hexagonal Nut	1
8	93–5911	Screw	1
9	77–3290	Screw	2
10	93–5914	Washer	2
11	93–5910	Tensioner	1

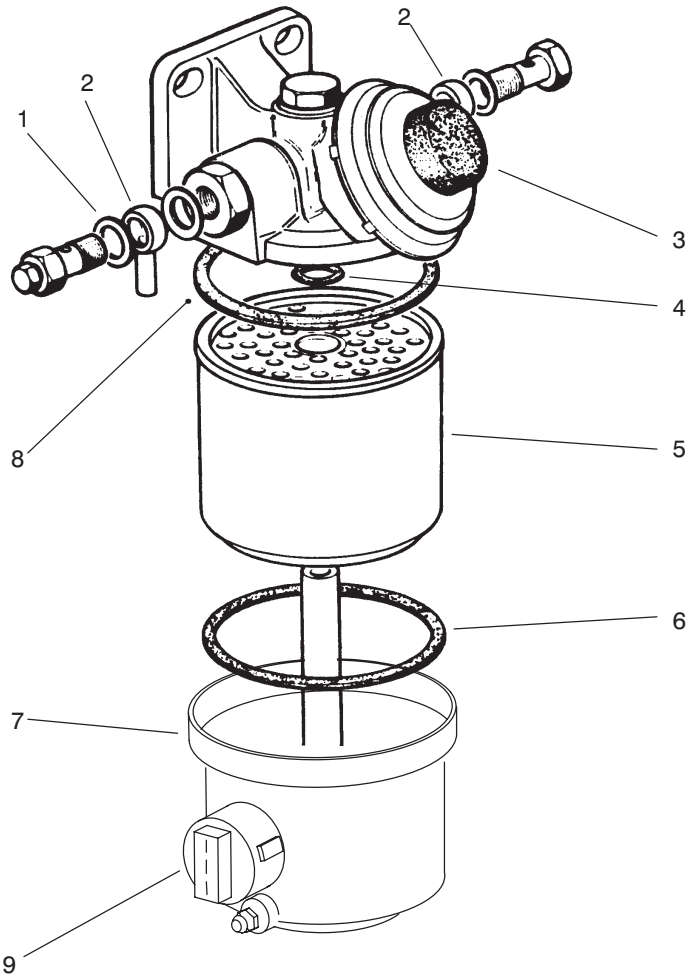


T–2290A

STARTER & GLOW PLUGS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5916	Heat Shield	1
2	94–3261	Nut	1
3	93–5920	Nut	1
4	93–5915	Starter	1
5	93–5917	Pin	1
6	93–5923	Preheating Unit	1
7	76–5310	Washer	1
8	94–3267	Nut	1

Ref. No.	Part No.	Description	No. Used
9	94–3251	Nut	1
10	74–8710	Washer	1
11	33113–020	Screw	1
12	93–5924	Nut	4
13	93–5922	Cable	1
14	93–5921	Glow Plug	4
15	93–5919	Screw	2
16	33003–00	Nut – HF	1



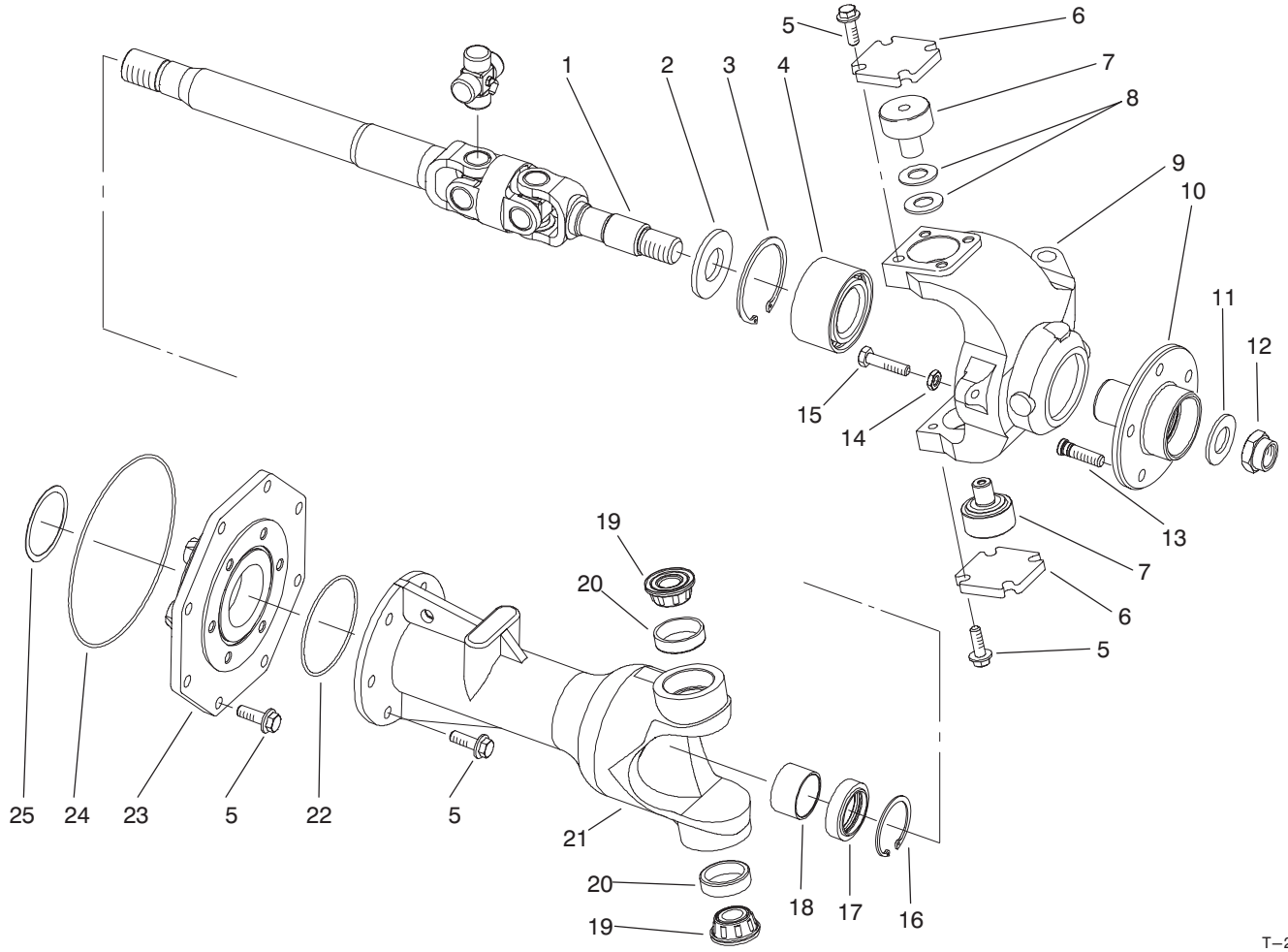
T−0966A

FUEL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	76−5180	Washer − Copper	4
2	76−5190	Fitting − Adjustable	2
3	76−5300	Assembly − Filter, Fuel (Incl. Ref. #7 & 9)	1
4		O−Ring	1
5	76−5220	Element − Filter (Incl. Ref. #4, 6 & 8)	1

Ref. No.	Part No.	Description	No. Used
6		Seal − Gasket	1
7		Cap − Filter, Fuel	1
8		Seal − Gasket	1
9	76−5320	Sensor − Water	1

3317−919A include in next update



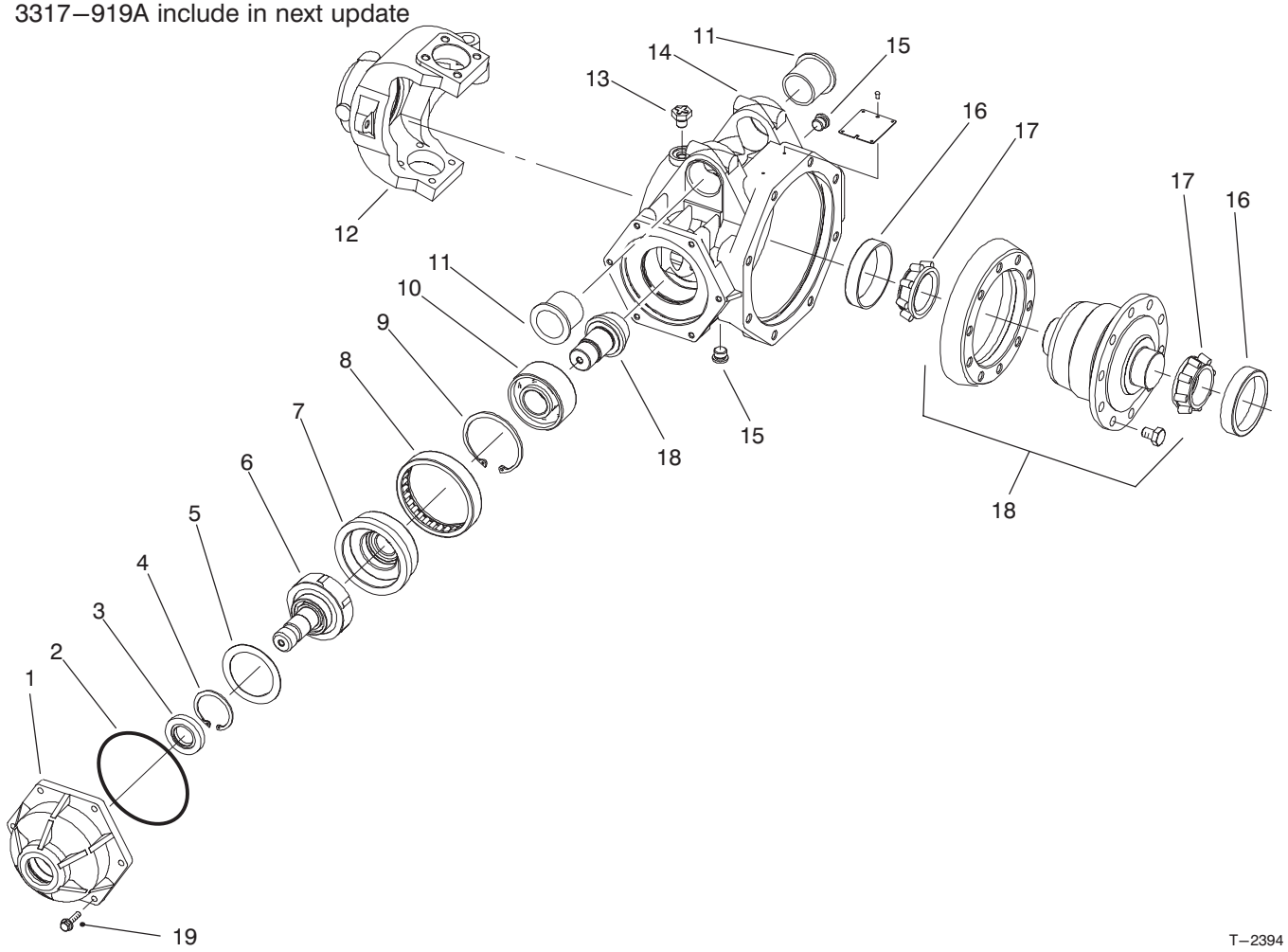
T−2393

4WD AXLE − UNIVERSAL JOINT & KINGPIN ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94−4123	Joint − Universal	2
2	94−4037	Washer	2
3	93−5964	Ring − Retaining	2
4	94−4030	Bearing − Tapered	2
5	33105−030	Screw − HHF	36
6	94−4119	Cover − Kingpin	4
7	94−4121	Trunnion − Kingpin	4
8	94−4126	Washer − Belleville	4
9	94−4116	Flange − Spindle, LH	1
10	94−4122	Hub − Wheel	2
11	94−4034	Washer	2
12	94−4079	Nut − Hex.	2
13	94−4143	Stud − Wheel	10
14	33015−00	Nut − Hex.	2

Ref. No.	Part No.	Description	No. Used
15	33105−050	Screw − HHF	2
16	94−4133	Ring − Retaining	2
17	94−4128	Seal − Lip	2
18	94−4127	Bearing − Journal	2
19	94−4125	Cone − Bearing	4
20	94−5124	Cup − Bearing	4
21	94−4117	Housing − Kingpin	2
22	94−4131	O−Ring	2
23	94−4114	Cover − Side	2
24	94−4129	O−Ring	1
25	94−4139	Shim	1
25	94−4140	Shim	1
25	94−4118	Shim	1

3317−919A include in next update

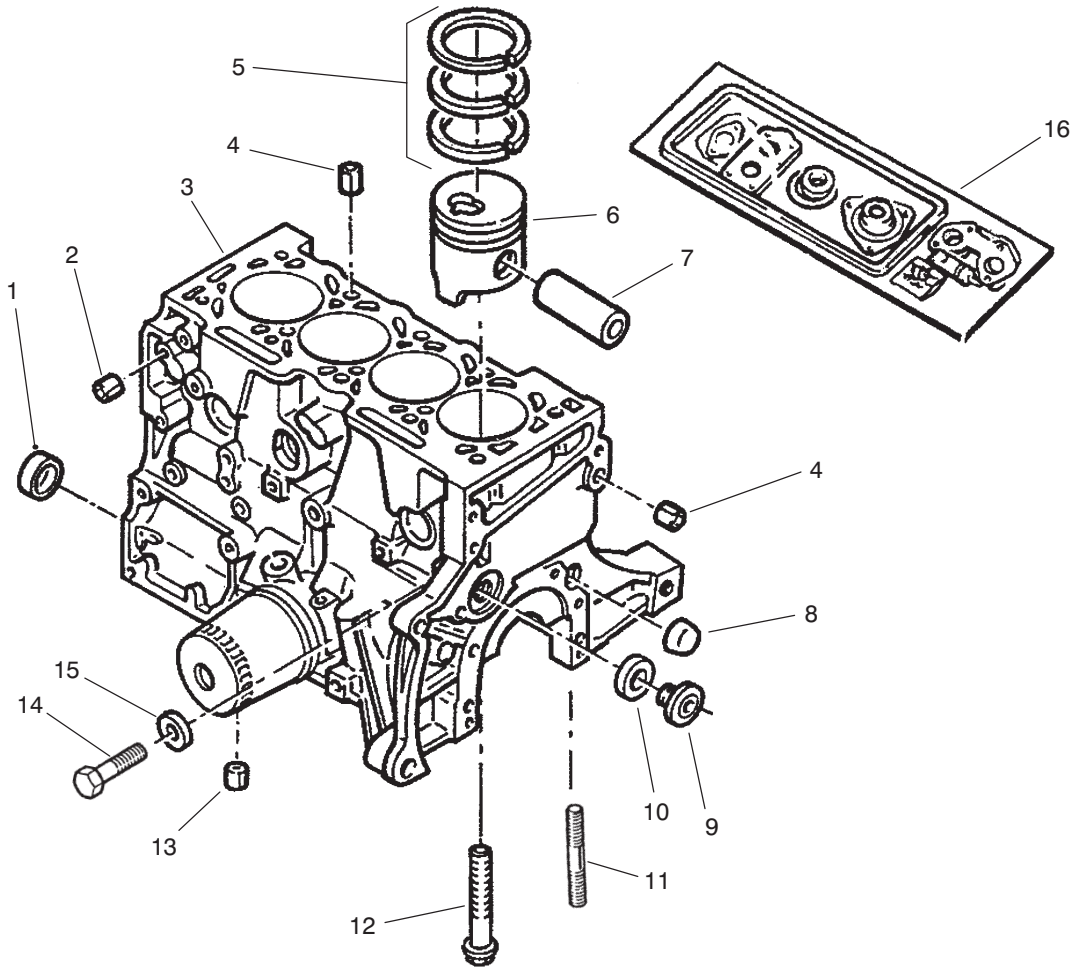


T−2394

4WD AXLE − HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94−4134	Housing − Clutch	1
2	94−4132	O−Ring	1
3	94−3925	Seal − Lip	1
4	94−4029	Ring − Retaining, Internal	1
5	94−4137	Washer − Thrust	1
6	94−4135	Clutch	1
7	94−4138	Race − Clutch	1
8	94−4136	Bearing − Needle	1
9	69−3200	Ring − Retaining	1
10	94−4130	Bearing − Ball	1

Ref. No.	Part No.	Description	No. Used
11	69−6470	Bushing	2
12	94−4115	Flange − Spindle, RH	1
13	94−3998	Vent − Breather	1
14	94−4113	Housing − Axle, Steerable	1
15	353−989	Plug	2
16	94−3965	Cup − Bearing	2
17	94−3964	Cone − Bearing	2
18	94−4120	Asm. − Differential	1
19	33103−025	Screw − HHF	6



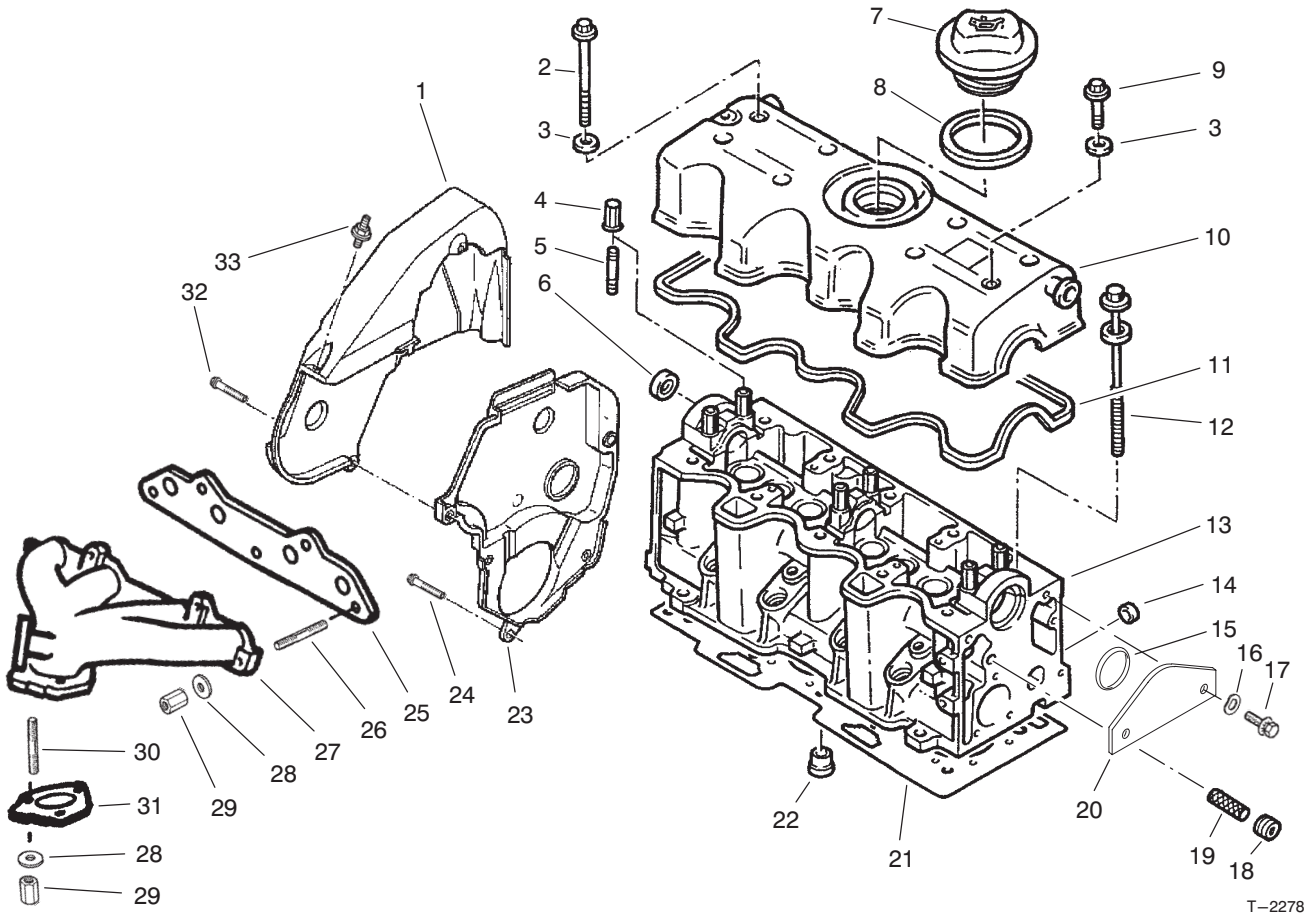
T–2277

CYLINDER BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5655	Plug	7
2	93–5659	Pin (Dowel–Ring)	2
3	93–5651	Cylinder Block Assembly (Incl. Ref. #5–7)	1
4	76–5690	Pin (Dowel–Ring)	4
5		Piston Ring Set	1
6		Piston	4
7		Pin–Wrist	4
8	93–5656	Plug	1

Ref. No.	Part No.	Description	No. Used
9	94–3121	Threaded Plug	2
10	93–5653	Plug Seal	2
11	93–5660	Stud	3
12	93–5657	Screw	10
13	93–5658	Pin (Dowel)	1
14	74–7790	Screw	1
15	93–5654	Plug Seal	1
16	93–5652	Engine Gasket Set	1
*	93–5650	Engine – Stripped	1

*Not Illustrated

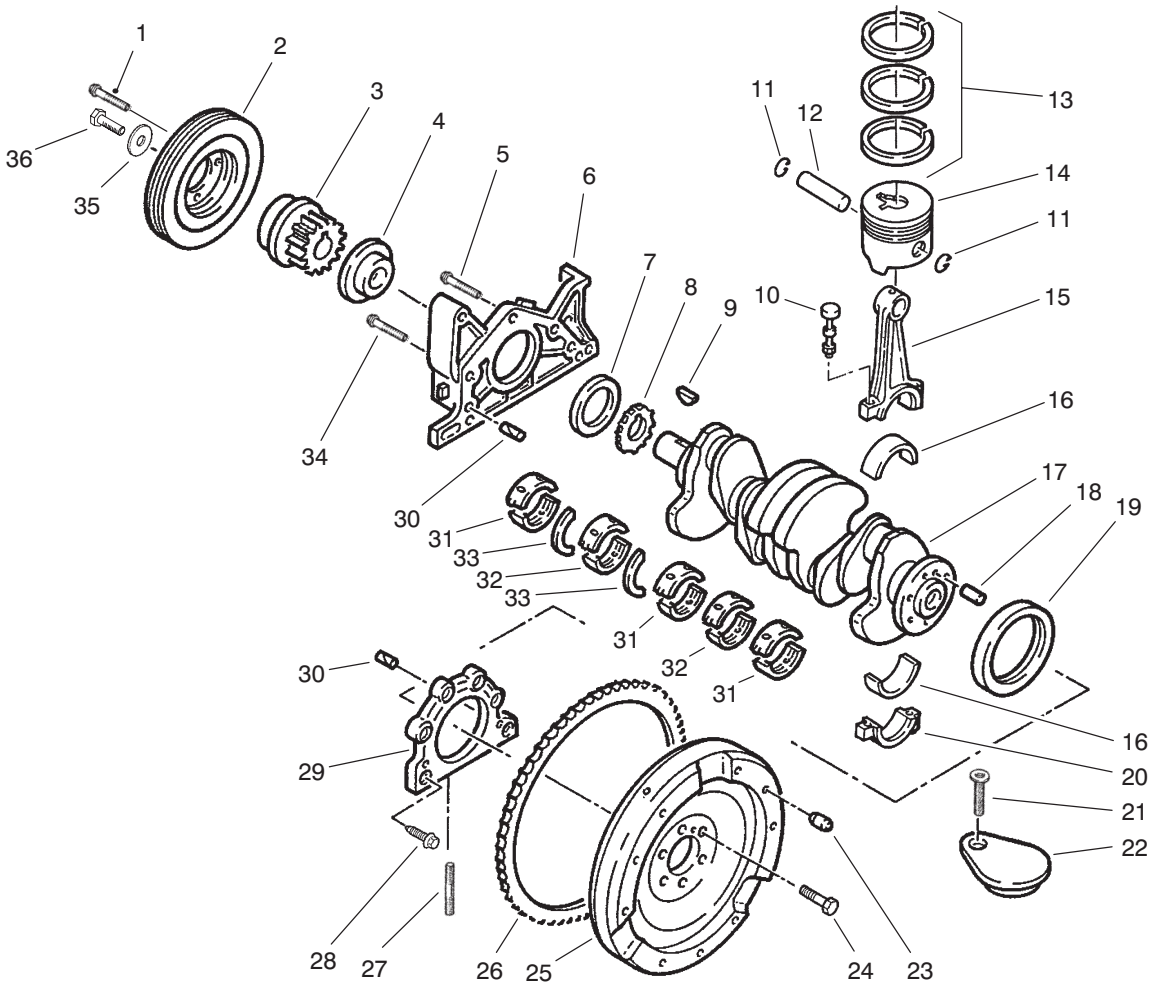


CYLINDER HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5676	Upper Cover	1
2	93–5672	Screw	4
3	93–5669	Gasket	8
4	93–5674	Nut	6
5	94–3162	Stud	6
6	74–7840	Plug	2
7	93–5668	Oil Cap Filler (Incl. Ref. #8)	1
8		Seal – Cap	1
9	93–5673	Screw	4
10	93–5662	Cover (Incl. Ref. #11)	1
11	93–5665	Gasket	1
*	93–5666	Gasket	1
12	93–5675	Screw	10
13	93–5661	Cylinder Head	1
14	93–5669	Plug	4
15	93–5926	O–Ring	1

Ref. No.	Part No.	Description	No. Used
16	93–5928	Spring Washer	2
17	93–5927	Screw	2
18	94–3118	Plug	2
19	93–5670	Filter Element	1
20	93–5925	Cover Plate	1
21	93–5663	Cyl. Head Gasket	1
22	93–5671	Swirl Chamber	4
23	93–5677	Lower Cover	1
24	93–5678	Screw	5
25	93–5894	Gasket	1
26	93–5895	Stud	5
27	93–5893	Exhaust Manifold	1
28	93–5897	Plate Washer	8
29	93–5896	Hexagonal Nut	8
30	93–5898	Stud	3
31	93–5892	Pipe Gasket	1
32	93–5680	Screw	1
33	93–5679	Screw	1

*Not Illustrated

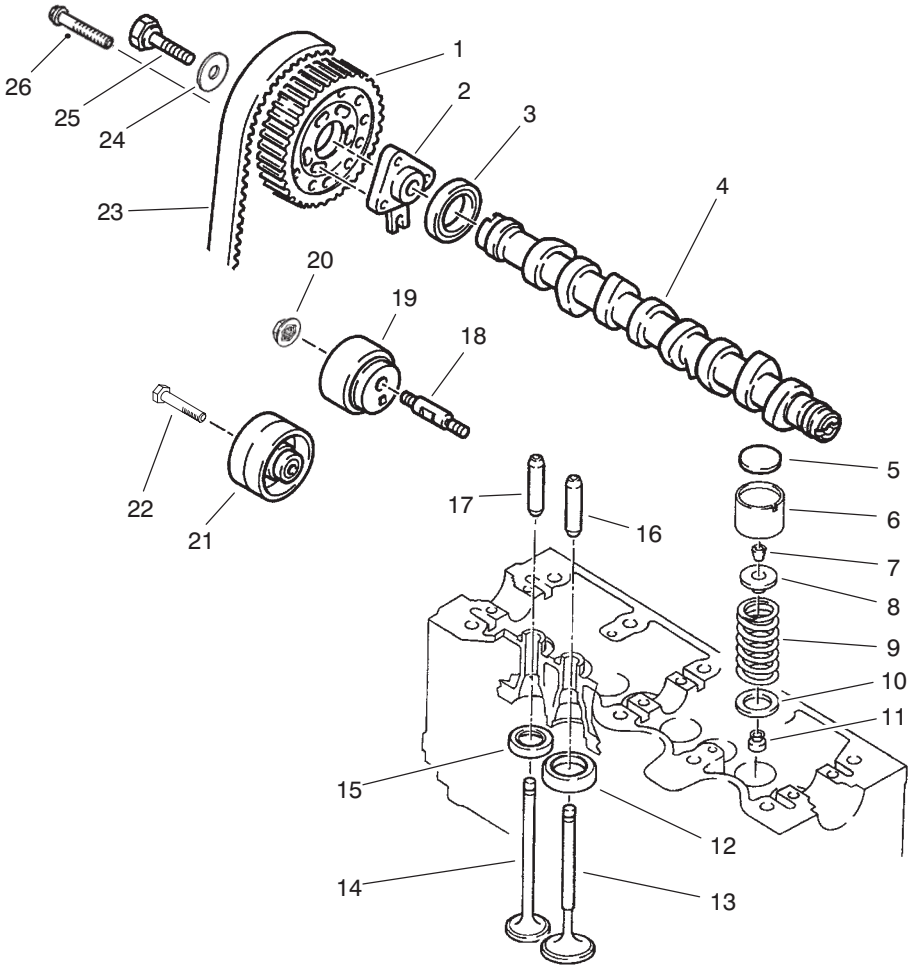


PISTON & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–3112	Screw	4
2	93–5685	Crankshaft Pulley	1
3	93–5684	Gear	1
4	93–5699	Spacer	1
5	93–5710	Screw	2
6	93–5687	Gasket Plate	1
7	93–5701	Gasket	1
8	93–5698	Oil Pump Gear	1
9	93–5703	Key	1
10	93–5715	Connecting Rod Bolt	8
11	93–5716	Circlip	8
12		Pin – Wrist	4
13	93–5714	Set Of 3 Piston Rings	4
14		Piston	4
15	93–5712	Set Of 4 Connecting Rods (Incl. Ref. #10 & 20)	1
16	93–5713	Set Of 8 Half Bearings	1
17	93–5681	Crankshaft	1
18	74–8250	Pin	1
19	93–5702	Gasket	1
20		Cap – Connecting Rod	4
21	93–5709	Screw	1
22	93–5700	Plug	1

Ref. No.	Part No.	Description	No. Used
23	93–5705	Pin	3
24	93–5708	Screw	6
25	93–5682	Engine Flywheel (Incl. Ref. #26)	1
26	93–5683	Starter Ring Gear	1
27	93–5707	Stud	2
28	93–5704	Screw	6
29	93–5686	Gasket Plate	1
30	93–5706	Pin	4
31	93–5688	Half Bearing	6
*	93–5689	Half Bearing	6
*	93–5690	Half Bearing	6
32	93–5691	Half Bearing	4
*	93–5692	Half Bearing	4
*	93–5693	Half Bearing	4
33	93–5694	Half Flanges	2
*	93–5695	Half Flanges	2
*	93–5696	Half Flanges	2
*	93–5697	Half Flanges	2
34	93–5711	Screw	3
35	94–3146	Plate Washer	1
36	94–3145	Pulley Screw	1

*Not Illustrated



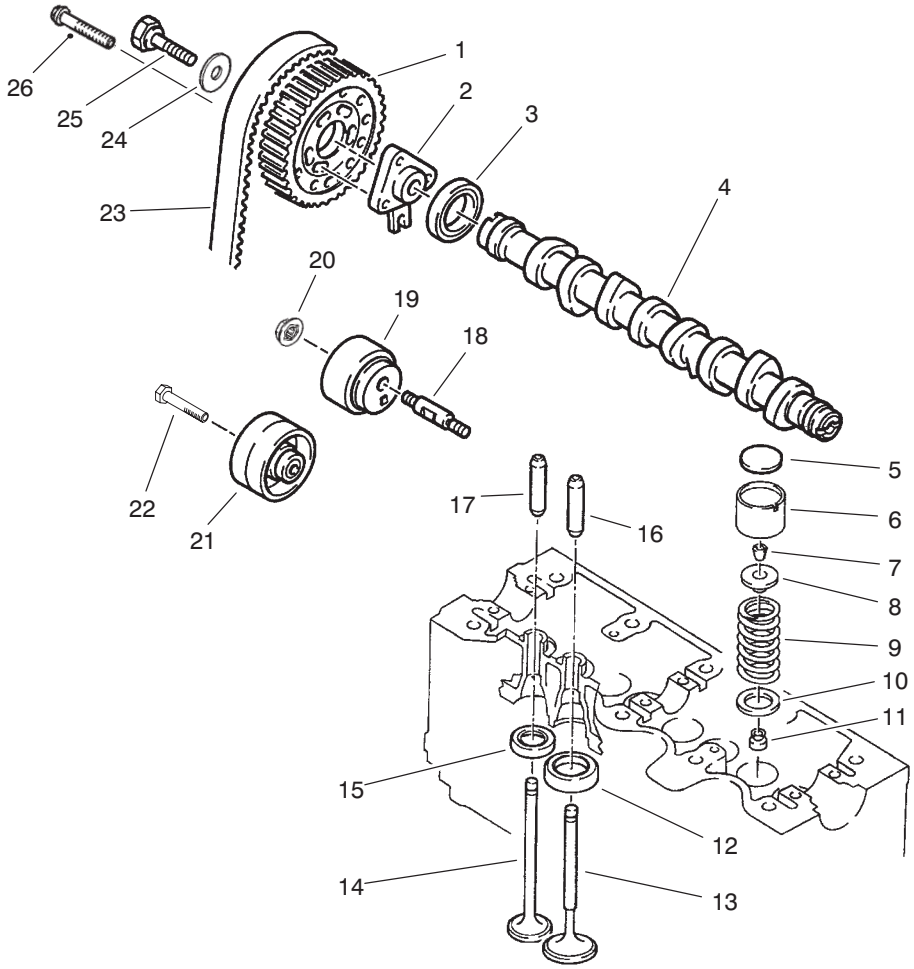
T–2280

CAMSHAFT & VALVES ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5719	Camshaft Gear	1
2	93–5723	Pulley Hub	1
3	93–5718	Camshaft Seal	1
4	93–5717	Camshaft	1
5	93–5742	Shim – Tappet (3.20 mm)	8
*	93–5743	Shim – Tappet (3.25 mm)	8
*	93–5744	Shim – Tappet (3.30 mm)	8
*	93–5745	Shim – Tappet (3.35 mm)	8
*	93–5746	Shim – Tappet (3.40 mm)	8
*	93–5747	Shim – Tappet (3.45 mm)	8
*	93–5748	Shim – Tappet (3.50 mm)	8
*	93–5749	Shim – Tappet (3.55 mm)	8
*	93–5750	Shim – Tappet (3.60 mm)	8
*	93–5751	Shim – Tappet (3.65 mm)	8
*	93–5752	Shim – Tappet (3.70 mm)	8
*	93–5753	Shim – Tappet (3.72 mm)	8
*	93–5754	Shim – Tappet (3.75 mm)	8
*	93–5755	Shim – Tappet (3.77 mm)	8
*	93–5756	Shim – Tappet (3.80 mm)	8
*	93–5757	Shim – Tappet (3.82 mm)	8
*	93–5758	Shim – Tappet (3.85 mm)	8
*	93–5759	Shim – Tappet (3.87 mm)	8
*	93–5760	Shim – Tappet (3.90 mm)	8
*	93–5761	Shim – Tappet (3.92 mm)	8
*	93–5762	Shim – Tappet (3.95 mm)	8
*	93–5763	Shim – Tappet (3.97 mm)	8

Ref. No.	Part No.	Description	No. Used
*5	93–5764	Shim – Tappet (4.00 mm)	8
*	93–5765	Shim – Tappet (4.02 mm)	8
*	93–5766	Shim – Tappet (4.05 mm)	8
*	93–5767	Shim – Tappet (4.07 mm)	8
*	93–5768	Shim – Tappet (4.10 mm)	8
*	93–5769	Shim – Tappet (4.12 mm)	8
*	93–5770	Shim – Tappet (4.15 mm)	8
*	93–5771	Shim – Tappet (4.17 mm)	8
*	93–5772	Shim – Tappet (4.20 mm)	8
*	93–5773	Shim – Tappet (4.22 mm)	8
*	93–5774	Shim – Tappet (4.25 mm)	8
*	93–5775	Shim – Tappet (4.27 mm)	8
*	93–5776	Shim – Tappet (4.30 mm)	8
*	93–5777	Shim – Tappet (4.32 mm)	8
*	93–5778	Shim – Tappet (4.35 mm)	8
*	93–5779	Shim – Tappet (4.37 mm)	8
*	93–5780	Shim – Tappet (4.40 mm)	8
*	93–5781	Shim – Tappet (4.42 mm)	8
*	93–5782	Shim – Tappet (3.45 mm)	8
*	93–5783	Shim – Tappet (4.47 mm)	8
*	93–5784	Shim – Tappet (4.50 mm)	8
*	93–5785	Shim – Tappet (4.52 mm)	8
*	93–5786	Shim – Tappet (4.55 mm)	8
*	93–5787	Shim – Tappet (4.57 mm)	8
*	93–5788	Shim – Tappet (4.60 mm)	8
*	93–5789	Shim – Tappet (4.62 mm)	8

*Not Illustrated



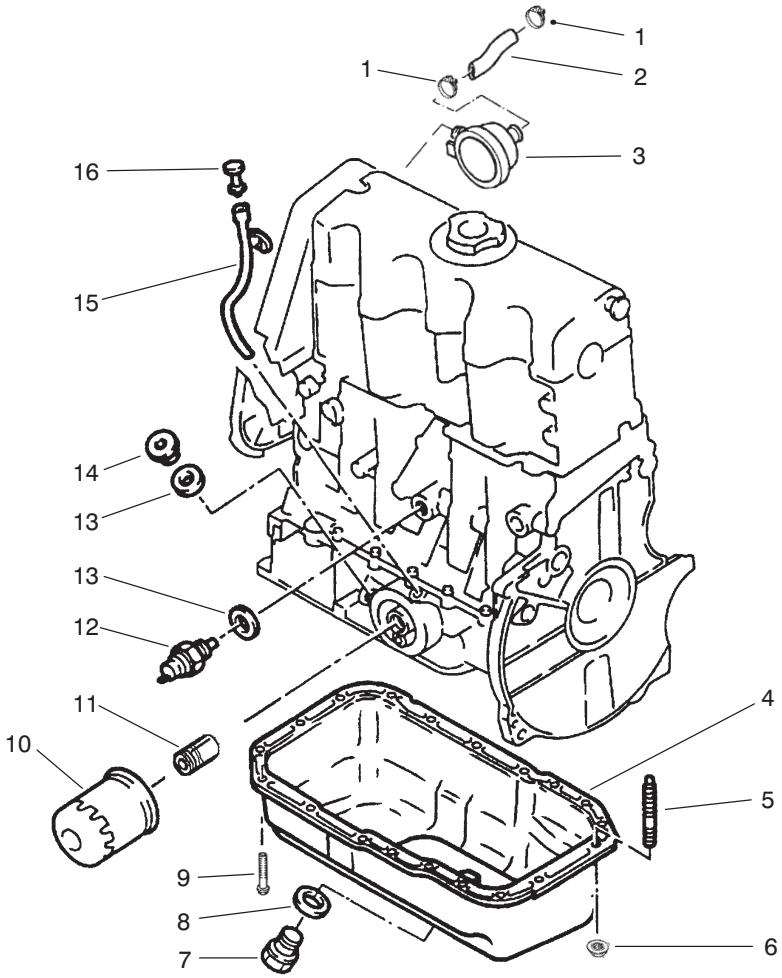
T–2280

CAMSHAFT & VALVES ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
*5	93–5790	Shim – Tappet (4.65 mm)	8
*	93–5791	Shim – Tappet (4.67 mm)	8
*	93–5792	Shim – Tappet (4.70 mm)	8
*	93–5793	Shim – Tappet (4.72 mm)	8
*	93–5794	Shim – Tappet (4.75 mm)	8
*	93–5795	Shim – Tappet (4.77 mm)	8
*	93–5796	Shim – Tappet (4.80 mm)	8
*	93–5797	Shim – Tappet (4.82 mm)	8
*	93–5798	Shim – Tappet (4.85 mm)	8
*	93–5799	Shim – Tappet (4.87 mm)	8
*	93–5800	Shim – Tappet (4.90 mm)	8
6	93–5736	Tappet	8
7	93–5734	Valve Half Bush	16
8	93–5733	Valve Spring Seat	8
9	93–5732	Valve Spring	8
10	93–5741	Flat Washer	8

Ref. No.	Part No.	Description	No. Used
11	93–5735	Valve Seal	8
12	93–5739	Inlet Seat Valve	4
13	93–5730	Intake Valve	4
14	93–5731	Exhaust Valve	4
15	93–5740	Outlet Seat Valve	4
16	93–5737	Inlet Valve Guide	4
17	93–5738	Outlet Valve Guide	4
18	93–5724	Tensioner Spindle	1
19	93–5721	Tensioner	1
20	93–5729	Nut	1
21	93–5722	Roller	1
22	93–5726	Screw	1
23	93–5720	Cogged Belt	1
24	93–5728	Plate Washer	1
25	93–5725	Pulley Screw	1
26	93–5727	Screw	3

*Not Illustrated

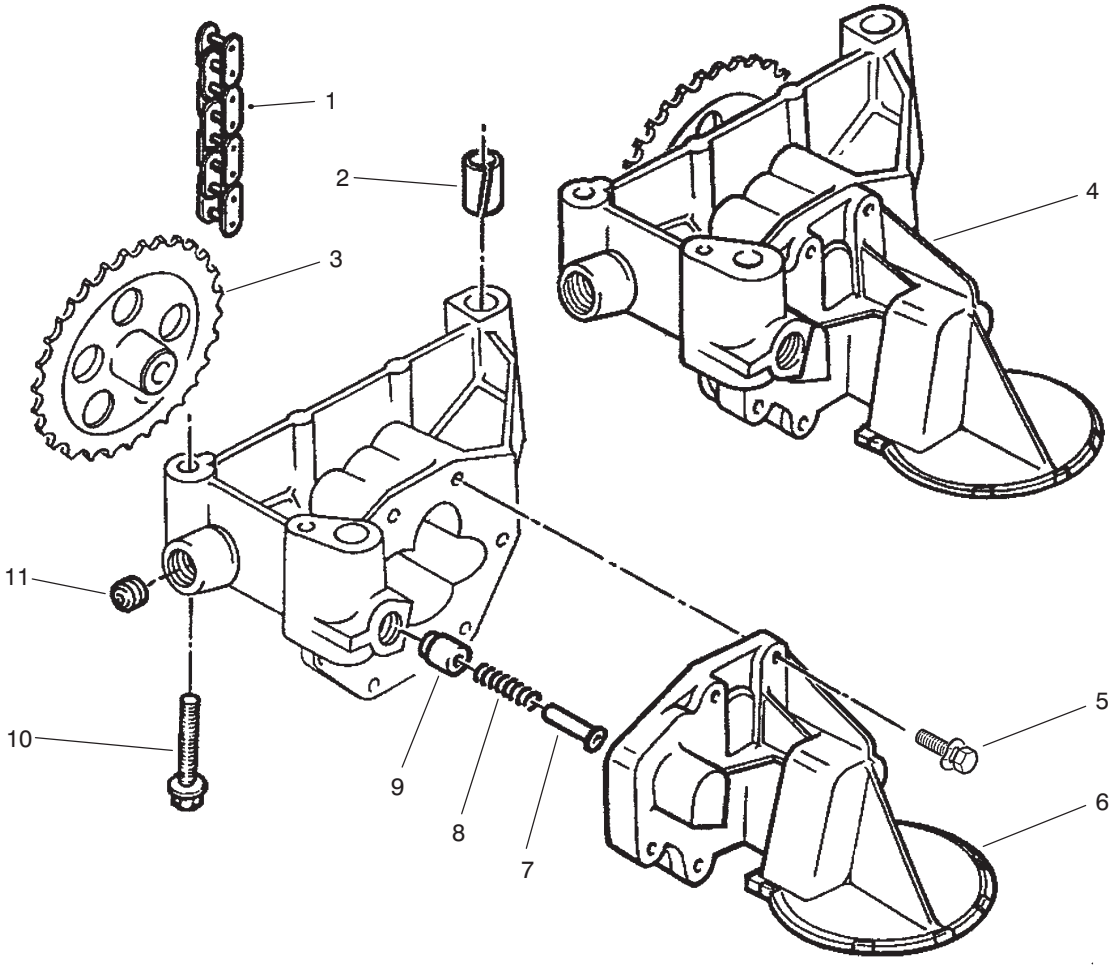


T–2281

OIL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5818	Clamp	2
2	93–5817	Union	1
3	93–5816	Regulator	1
4	93–5810	Oil Sump	1
5	93–5660	Stud	3
6	93–5815	Nut	3
7	93–5813	Drain Plug	1
8	93–5814	Gasket	1
9	93–5704	Screw	16

Ref. No.	Part No.	Description	No. Used
10	93–5808	Oil Filter – 1st Build Up	1
*	74–7970	Oil Filter – Service	1
11	93–5809	Adaptor	1
12	94–3180	Pressure Switch	1
13	74–7320	Gasket	2
14	74–7310	Threaded Plug	1
15	93–5811	Dipstick Guide	1
16	93–5812	Oil Dipstick	1

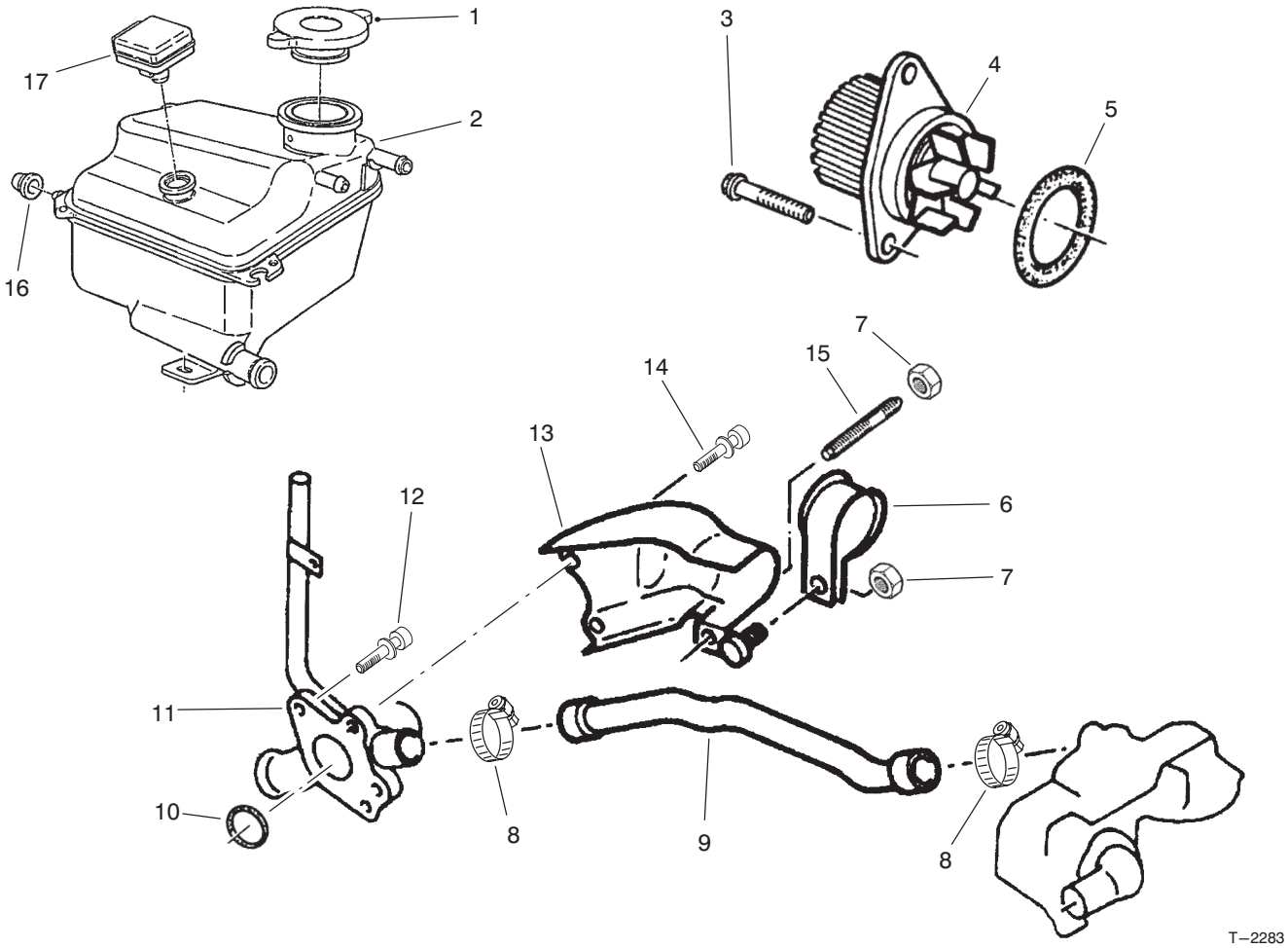


T–2282

OIL PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5804	Oil Pump Chain	1
2	93–5658	Pin	1
3		Gear – Drive	1
4	93–5801	Oil Pump (Incl. Ref. #3)	1
5	93–5807	Screw	6

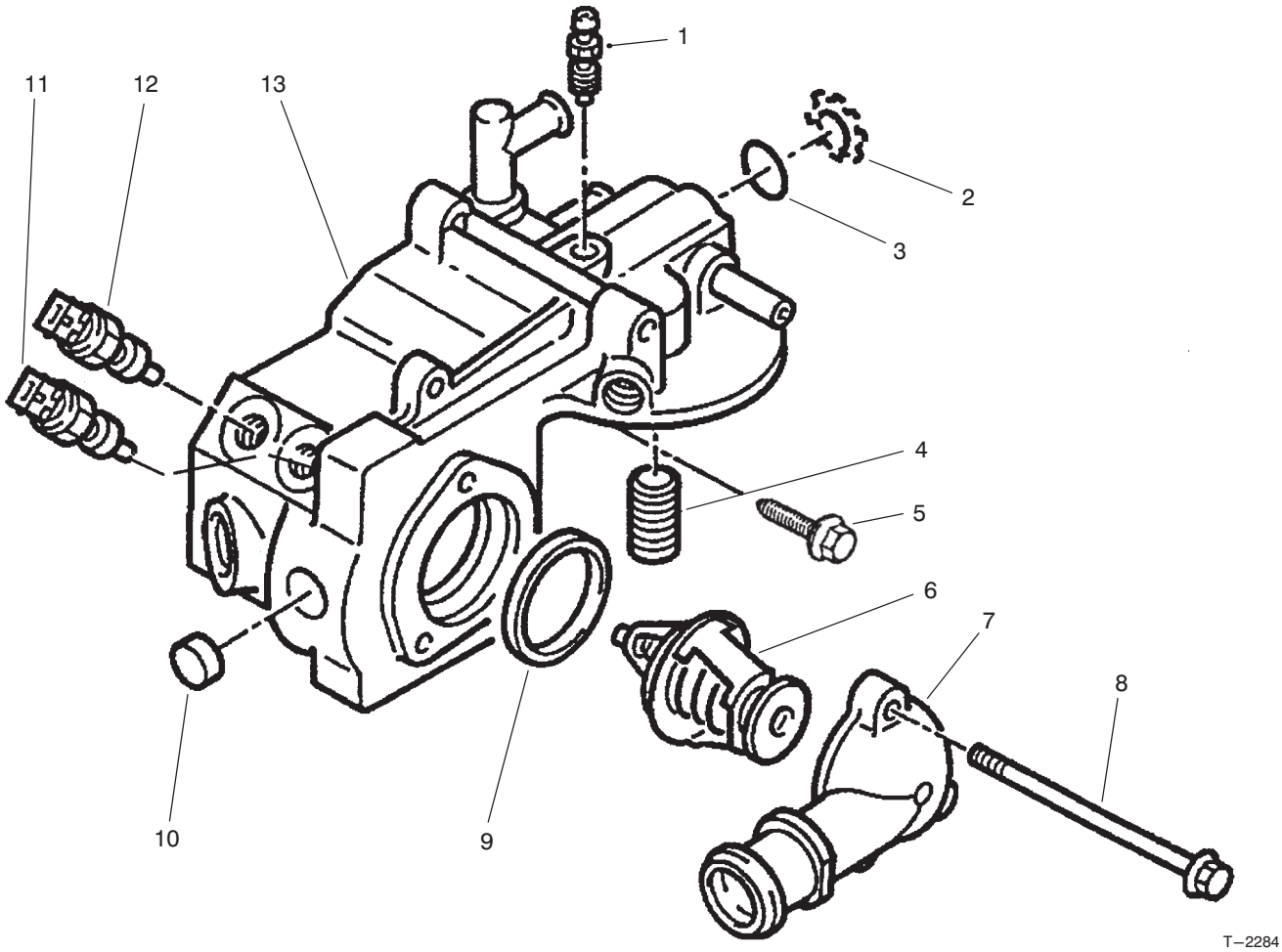
Ref. No.	Part No.	Description	No. Used
6	93–5802	Strainer	1
7	93–5806	Shaft	1
8	93–5805	Spring	1
9	94–3176	Plunger	1
10	93–5803	Screw	3
11	94–3177	Plug	1



COOLANT SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–3269	Pressure Plug	1
2	93–5937	Degasing Box	1
3	94–3163	Screw	2
4	93–5820	Water Pump	1
5	93–5822	O–Ring	1
6	93–5826	Clip	1
7	94–3267	Nut	2
8	94–3193	Clamp	2
9	93–5824	By–pass Union	1

Ref. No.	Part No.	Description	No. Used
10	93–5821	O–Ring	1
11	93–5819	Water Inlet	1
12	93–5823	Screw	2
13	93–5825	Heat Shield	1
14	93–5827	Screw	2
15	93–5660	Stud	1
16	94–3271	Grommet	2
17	94–3270	Water Level Sensor	1



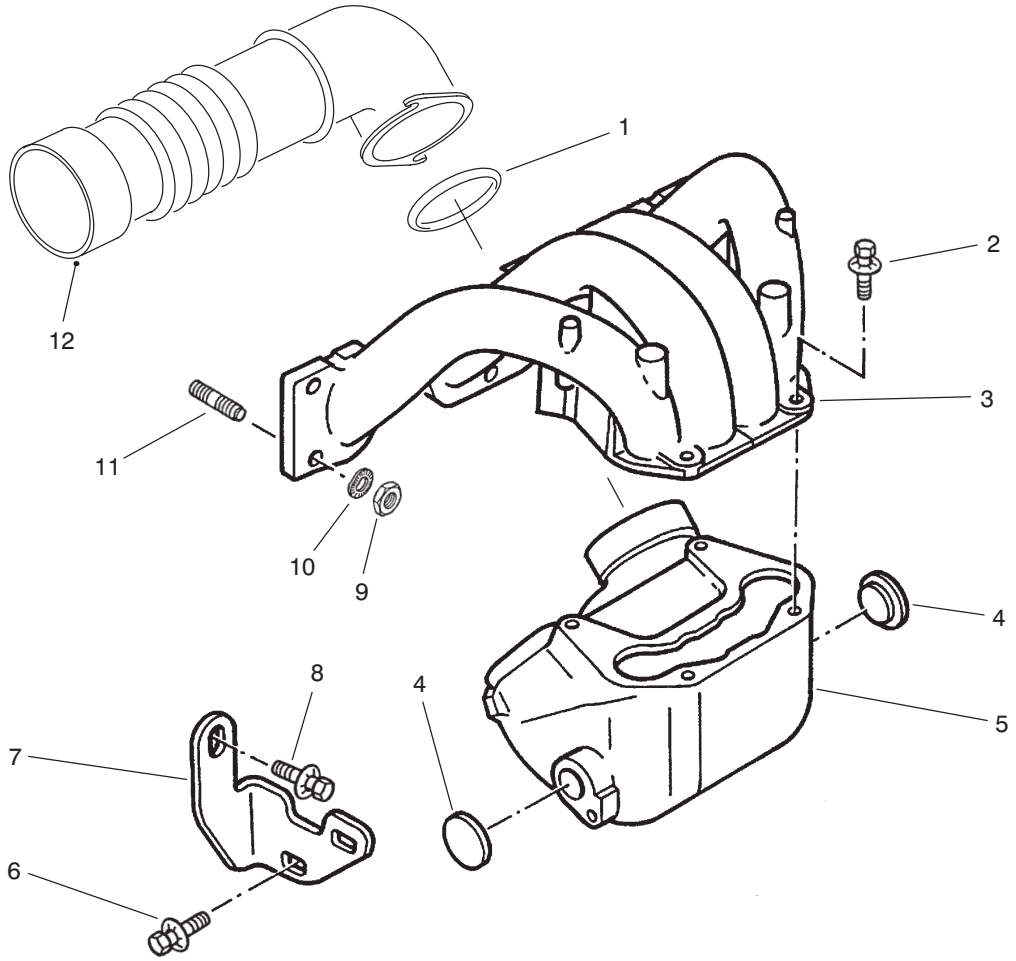
T–2284

COOLANT OUTLET BOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5835	Bleed Screw	1
2	93–5840	Washer	1
3	93–5838	O–Ring	2
4	93–5836	Insert	1
5	93–5807	Screw	1
6	93–5831	Thermostat	1
7	93–5830	Cover	1

Ref. No.	Part No.	Description	No. Used
8	93–5839	Screw	4
9	93–5837	Water Box Gasket	1
10	93–5833	Plug	1
*	93–5834	Plug	2
11	94–3211	Thermoswitch	1
12	93–5832	Sender	1
13	93–5829	Water Outlet Box	1

*Not Illustrated

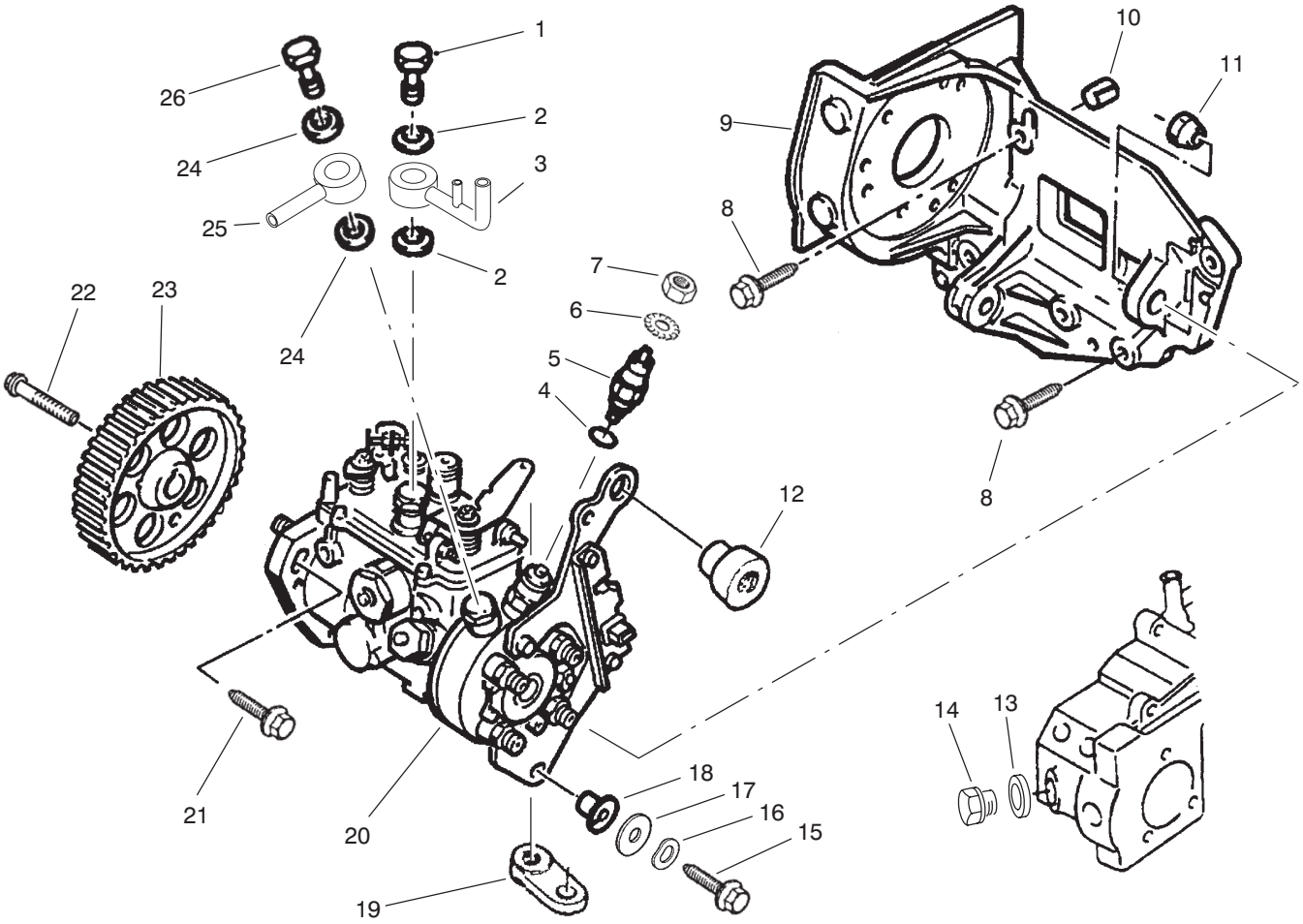


T–2285

INTAKE MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5841	O–Ring	1
2	93–5747	Screw	4
3	93–5843	Intake Manifold	1
4	93–5656	Plug	2
5	93–5844	Air Divider	1
6	94–3161	Screw	2

Ref. No.	Part No.	Description	No. Used
7	93–5845	Bracket	1
8	94–3131	Screw	1
9	94–3165	Nut	7
10	94–3164	Spring Washer	7
11	93–5846	Stud	7
12	93–5841	Air Union	1



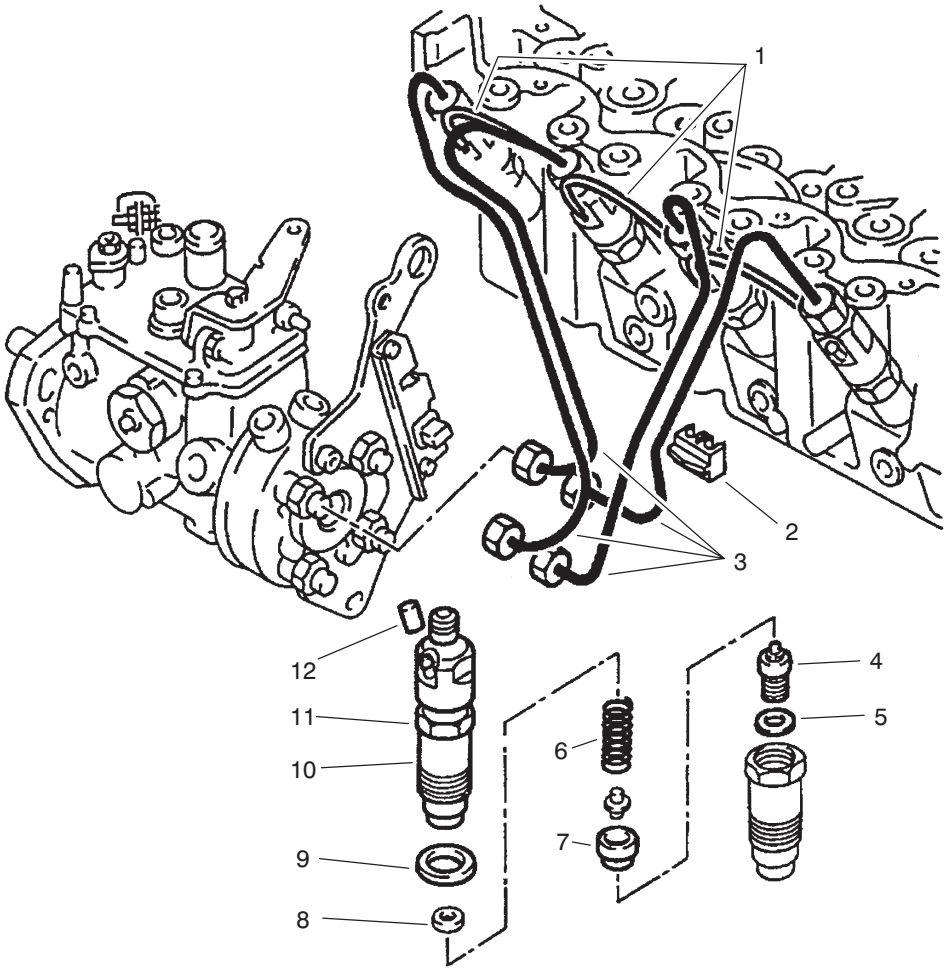
T–2286

INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94–4111	Union Screw – Inlet	1
2	74–8870	Gasket	2
3	93–5858	Outlet Union	1
4	94–3274	O–Ring	1
5	93–5855	Solenoid Valve	1
6	74–8710	Washer	1
7	94–3251	Nut	1
8	93–5852	Screw	5
*	93–5853	Screw	1
9	93–5849	Injection Pump Bracket	1
10	93–5659	Pin	2
11	94–3165	Hexagonal Nut	1
12	93–5850	Grommet	1
13	94–3122	Gasket	1

Ref. No.	Part No.	Description	No. Used
14	94–3121	Plug	1
15	94–3221	Screw	1
16	94–3164	Spring Washer	1
17	93–5855	Plate Washer	1
18	74–8630	Ring	1
19	74–8650	Journal	1
20	93–5848	Injection Pump	1
21	93–5854	Screw	3
22	93–5851	Screw	3
23	93–5719	Inj. Pump Gear	1
24	74–8680	Gasket	2
25	93–5857	Inlet Union	1
26	94–3250	Union Screw – Outlet	1

*Not Illustrated



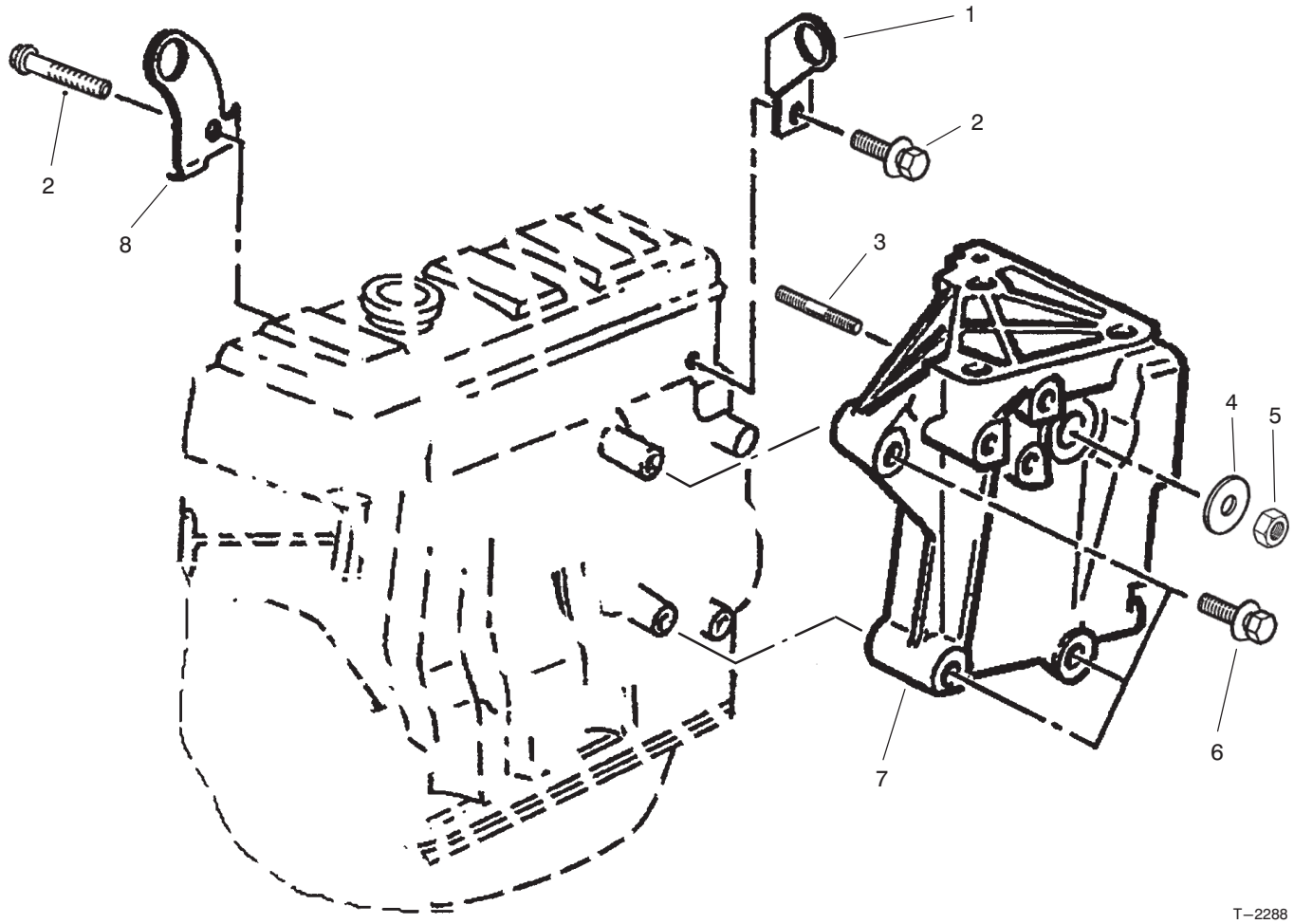
T–2287

FUEL INJECTOR & PLUMBING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5862	Union	3
*	93–5863	Union	1
2	94–3231	Bracket	4
3	93–5861	Pipes Harness	1
4	93–5860	Injector	4
5	93–5867	Injector Gasket	4
6	93–5864	Spring	4
7	93–5865	Spacer	4
8	93–5869	Shim (.680 mm)	1
*	93–5870	Shim (.720 mm)	1
*	93–5871	Shim (.760 mm)	1
*	93–5872	Shim (.800 mm)	1
*	93–5873	Shim (.840 mm)	1
*	93–5874	Shim (.880 mm)	1
*	93–5875	Shim (.920 mm)	1
*	93–5876	Shim (.960 mm)	1
*	93–5877	Shim (1.000 mm)	1
*	93–5878	Shim (1.035 mm)	3

Ref. No.	Part No.	Description	No. Used
*8	93–5879	Shim (1.065 mm)	1
*	93–5880	Shim (1.095 mm)	1
*	93–5881	Shim (1.125 mm)	1
*	93–5882	Shim (1.155 mm)	1
*	93–5883	Shim (1.185 mm)	1
*	93–5884	Shim (1.215 mm)	1
*	93–5885	Shim (1.245 mm)	1
*	93–5886	Shim (1.280 mm)	1
*	93–5887	Shim (1.320 mm)	1
*	93–5888	Shim (1.400 mm)	1
*	93–5889	Shim (1.480 mm)	1
*	93–5890	Shim (1.560 mm)	1
*	93–5891	Shim (1.640 mm)	1
9	93–5866	Injector Gasket	4
10	93–5868	Injector + Injector Holder	4
11	93–5859	Injector Holder	4
12	74–8770	Plug	1

*Not Illustrated

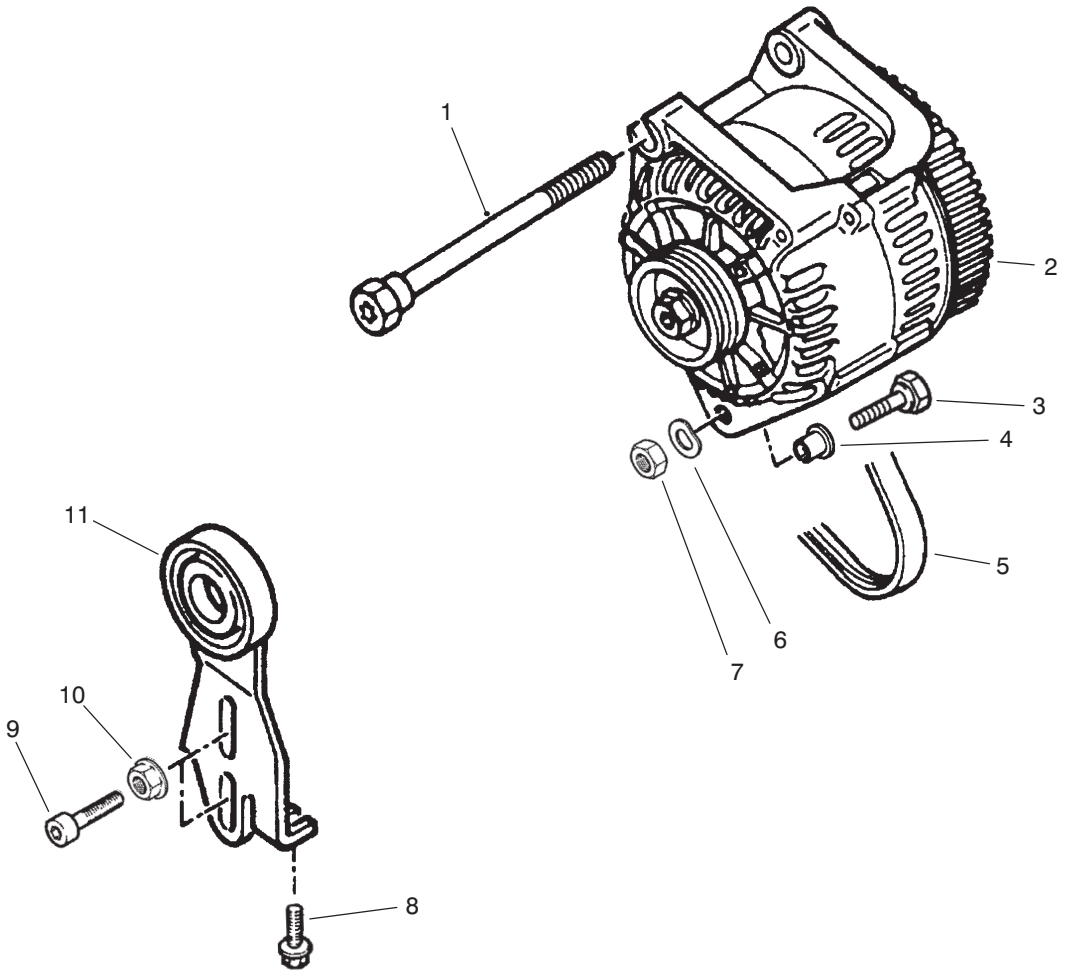


T–2288

ENGINE MOUNT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5901	Lifting Bracket	1
2	93–5906	Screw	4
3	93–5905	Stud	1
4	93–5904	Plate Washer	1

Ref. No.	Part No.	Description	No. Used
5	93–5903	Hexagonal Nut	1
6	93–5902	Screw	3
7	93–5899	Right Hand Engine Mount	1
8	94–3135	Lifting Bracket	1

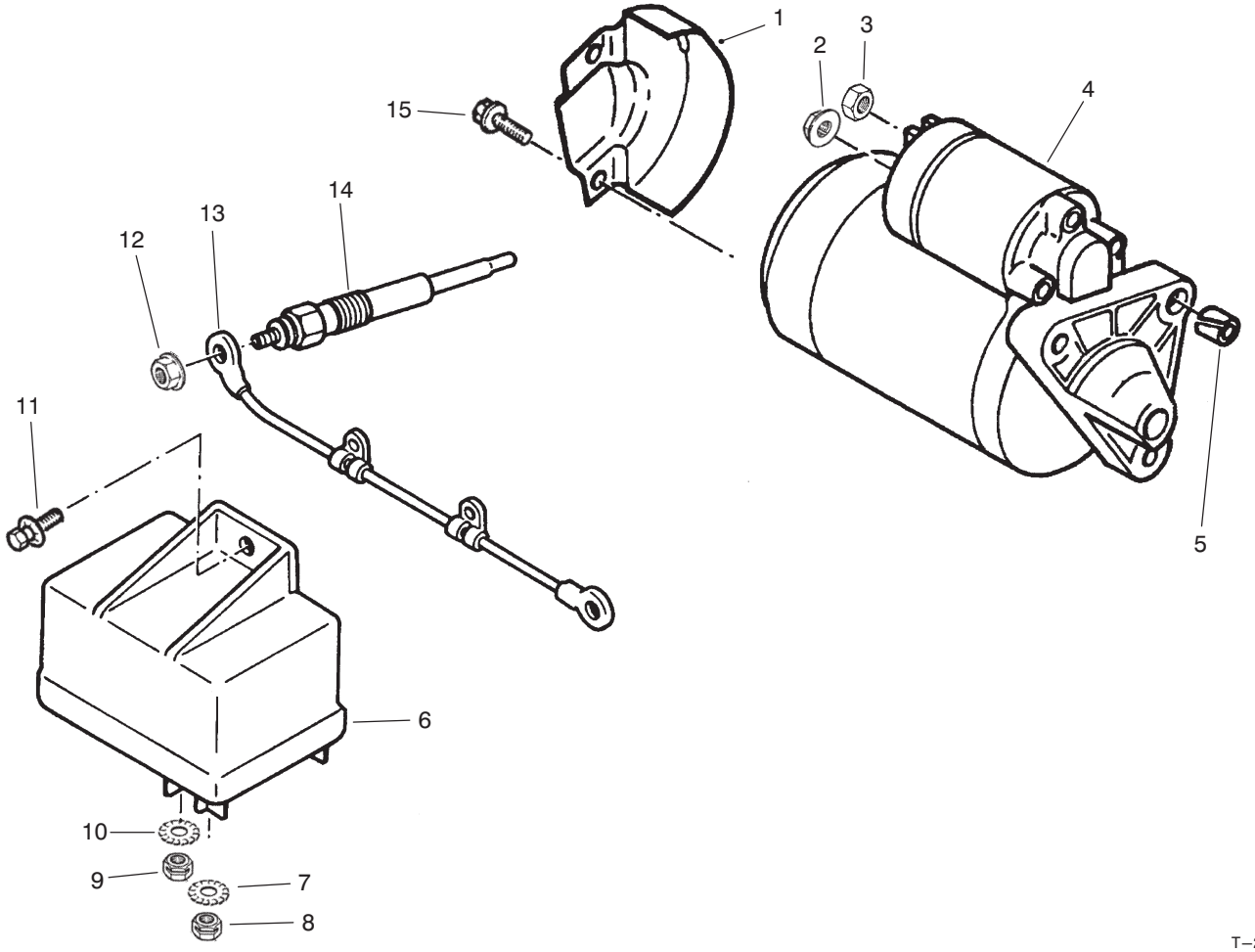


T–2289

ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5908	Screw	1
2	93–5907	Alternator	1
3	94–3221	Screw	1
4	93–5909	Ring	1
5	93–5912	Belt	1
6	94–3257	Washer	3

Ref. No.	Part No.	Description	No. Used
7	77–3320	Hexagonal Nut	1
8	93–5911	Screw	1
9	77–3290	Screw	2
10	93–5914	Washer	2
11	93–5910	Tensioner	1

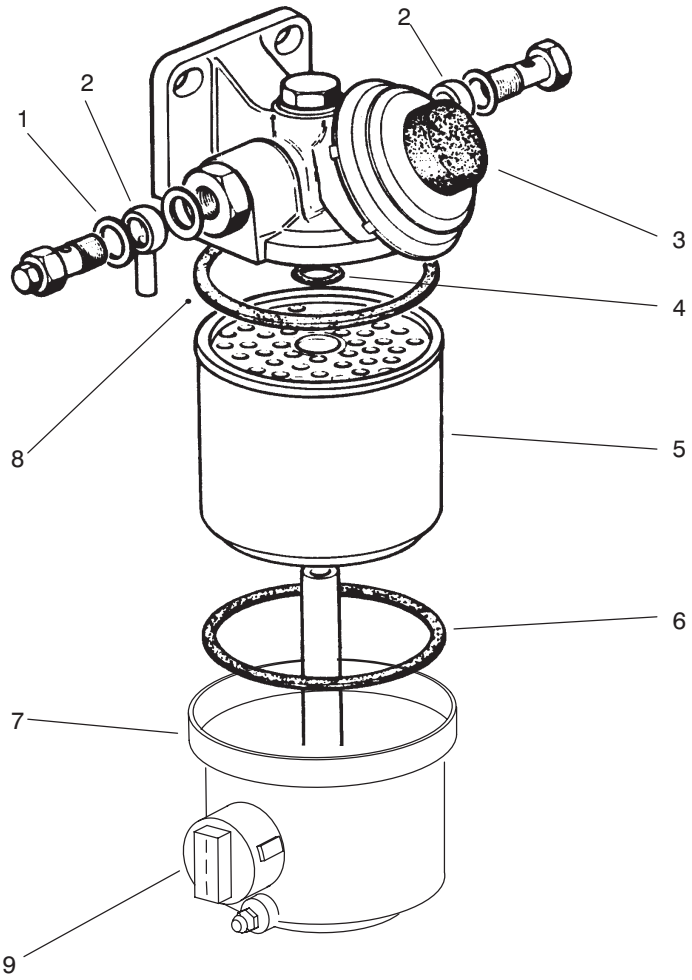


T–2290

STARTER & GLOW PLUGS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–5916	Heat Shield	1
2	94–3261	Nut	1
3	93–5920	Nut	1
4	93–5915	Starter	1
5	93–5917	Pin	1
6	93–5923	Preheating Unit	1
7	76–5310	Washer	1
8	94–3267	Nut	1

Ref. No.	Part No.	Description	No. Used
9	94–3251	Nut	1
10	74–8710	Washer	1
11		Screw	1
12	93–5924	Nut	4
13	93–5922	Cable	1
14	93–5921	Glow Plug	4
15	93–5919	Screw	2



T–0966A

FUEL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	76–5180	Washer – Copper	4
2	76–5190	Fitting – Adjustable	2
3	76–5300	Assembly – Filter, Fuel (Incl. Ref. #7 & 9)	1
4		O–Ring	1
5	76–5220	Element – Filter (Incl. Ref. #4, 6 & 8)	1

Ref. No.	Part No.	Description	No. Used
6		Seal – Gasket	1
7		Cap – Filter, Fuel	1
8		Seal – Gasket	1
9	94–3272	Sensor – Water	1

TORO PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.
111332	Switch – Interlock	16	44	2
116397	Relay	15	4	7
117433	Rivet – Pop	15	16	2
117433	Rivet – Pop	25	9	22
3–6498	Washer – Thrust	14	19	2
10–6830	Stud – Drive	26	34	10
18–2080	Hose	24	35	1
18–2770	Cable – Ground	1	22	1
21–2820	Assembly – Hub	26	33	2
21–8360	Nut – Lock	7	20	4
23–2270	Bushing – Rubber	6	9	1
25–2510	Washer	10	7	1
25–3210	Seal	10	6	1
27–2360	Switch – Ignition	16	7	1
27–7570	Pad – Left Turn	14	14	1
27–7580	Pad – Right Turn	14	12	1
28–0570	Spring – Compression	3	28	1
28–3570	O–Ring	8	17	1
28–3620	Pin	9	58	4
28–3650	Bearing	8	31	1
36–7290	Bearing	22	12	1
37–2690	Capacitor	15	7	2
43–4031	Cable – Positive	1	21	1
43–6280	Button – Push	16	18	1
43–6420	Bezel – Switch	16	19	1
46–6560	Bushing	1	1	2
48–1800	Kit – Block, Cylinder	9	54	1
56–7973	Clamp – Tube	32	36	10
62–2170	Washer – Thrust	26	37	2
62–7650	Gasket	1	7	1
62–7770	Key – Ignition	16	10	1
63–5400	Exchanger – Heat	24	14	1
66–2920	Washer – Nylon	16	38	2
66–2940	Gauge – Fuel	16	25	1
66–2950	Gauge – Hourmeter	16	22	1
66–3050	Strip – Magnetic	15	21	2
67–1300	Decal – Tower	4	2	1
67–1710	Decal – Caution	15	25	1
67–8030	Plug	12	18	2
69–3170	Ring – Retaining	11	11	3
69–3450	Pin	10	31	2
69–3740	Spring – Conical	13	20	2
69–4240	Kit – Seal	33	*	1
69–6470	Bushing	26	16	6
69–8940	Washer	32	43	4
69–8970	Spacer	32	41	2
71–4740	Rod – End	26	4	2
71–4760	Seal	26	3	2
72–9390	Belt – Seat	18	5	1
72–9760	Switch – Override	16	24	1
74–0720	Tube – Manual	18	12	1
74–2310	Clamp – Plastic	15	6	2
74–5560	Tire	26	28	2
74–7310	Drain Plug	40	7	1
74–7320	Gasket	40	8	1
74–7570	Lifting Bracket	47	8	1
74–7790	Screw	35	14	1
74–7840	Plug	35	1	7
74–7840	Plug	36	6	2
74–7970	Oil Filter – Service	40	*	1
74–8080	Plate Washer	37	35	1
74–8250	Pin	37	18	1
74–8650	Journal	45	19	1
74–8680	Gasket	45	24	2
74–8710	Washer	45	6	1
74–8710	Washer	49	10	1
74–8770	Plug	46	12	1
74–8870	Gasket	45	2	2
75–0400	Plate – Thrust	8	48	1
75–0470	Kit – Block, Cylinder	9	55	1
75–0520	Bearing	11	33	1
75–2080	Kit – Seal	33	*	1
76–5180	Washer – Copper	50	1	4
76–5190	Fitting – Adjustable	50	2	2
76–5220	Element – Filter	50	5	1
76–5300	Assembly – Filter, Fuel	50	3	1
76–5310	Washer	49	7	1
76–5320	Sensor – Water	50	9	1
76–5690	Pin (Dowel–Ring)	35	4	4
76–9060	Gauge – Temperature	16	16	1
77–3100	Decal – Caution	24	5	3
77–3290	Screw	48	9	2
77–3320	Hexagonal Nut	48	7	1
77–3620	Retainer – Cover	1	29	2
82–5730	End – Tie Rod	27	17	1
82–5740	Nut – Jam	27	18	1
83–1040	Washer – Rebound	1	14	2
83–9150	Decal – Starting Fluid	24	11	1
84–0310	Bearing	8	38	1
85–4730	Decal – Hydraulic Oil Only	2	35	1
86–2990	Mount – Cable, Throttle	22	44	2
87–5100	Washer – Snubbing	22	3	4
88–3590	Nut – Lock	27	13	1
88–9190	Kit – Solenoid Coil	33	12	2
92–3188	Board – Diode	15	*	2
92–5072	Rod – End, Ball Joint	26	41	1
92–5703	Piston	27	11	1
92–5705	Cap – Threaded	27	2	1
92–5706	Head – Cap, Threaded	27	3	1
92–5707	Kit – Seal	27	*	1
92–5708	Screw – Set, Socket Hd.	27	19	1
92–5772	Decal – Footrest, RH	3	31	1
92–6280	Assembly – Seat	18	*	1
92–6282	Switch – Seat	18	16	1
92–6315	Cartridge – NC, Poppet	33	10	1
92–6533	Kit – Cushion, Replacement	18	2	1
92–6534	Shell	18	4	1
92–9267	Sender – Fuel	1	8	1
93–0307	Nut – Retainer, Lock	26	26	2
93–0309	Washer – Tab	26	24	2
93–3094	Plug – Cap	3	18	4
93–3102	Cap – Diesel Fuel	1	10	1
93–4510	Bushing – Castor	26	14	2
93–4574	Arm – Lift, RH	20	*	1
93–4586	Spacer – Cylinder	20	7	2
93–4587	Spacer – Pivot	20	19	2
93–4630	Pin	20	9	2
93–4639	Bushing	20	6	6
93–4640	Cylinder – Hydraulic	20	5	2
93–4640	Cylinder – Hydraulic	32	18	2
93–4665	Bushing – Flange	20	2	4
93–4666	Arm – Lift, LH	20	1	1
93–4849	Bearing – Pillow Block	14	24	5
93–5023	Spacer	19	9	4
93–5034	Shroud – Radiator	24	23	1
93–5036	Plate – Axle	7	24	2
93–5040	Tank – Fuel	1	16	1
93–5041	Asm. – Drive Shaft, Engine	34	*	1
93–5042	Asm. – Drive Shaft	34	*	1
93–5043	Plate – Adapter, Engine	34	9	1
93–5044	Roll Over Protection System	29	2	1
93–5049	Pipe – Exhaust	22	35	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93–5053	Fitting – Hose, Radiator	24	31	1
93–5054	Fitting – Restriction	24	26	1
93–5055	Plate – Engine, Front	22	1	1
93–5059	Mount – Engine, RH	22	6	1
93–5062	Mount – Engine, LH	22	27	1
93–5082	Asm. – Shroud, Center	29	1	1
93–5083	Hose – Air Cleaner	29	7	1
93–5084	Hose – Air Cleaner	22	10	1
93–5084	Hose – Air Cleaner	29	12	1
93–5086	Assembly – Hood	25	13	1
93–5093	Pivot – Hood	25	17	2
93–5096	Bracket – Degasser	23	16	1
93–5100	Support – Upper, Radiator	24	10	1
93–5103	Support – Lower, Radiator	24	18	1
93–5104	Support – RH, Radiator	24	12	1
93–5105	Support – LH, Radiator	24	20	1
93–5106	Tube – Cooler, Oil	24	17	2
93–5107	Fitting – Adapter	24	15	2
93–5108	Grommet – Rubber	24	8	6
93–5108	Grommet – Rubber	32	54	1
93–5109	Spacer	24	7	6
93–5109	Spacer	32	56	1
93–5111	Air Cleaner	29	9	1
93–5113	Hanger – Rubber	19	8	2
93–5114	Fan	22	19	1
93–5115	Manifold	32	10	1
93–5116	Bracket – Battery	2	33	1
93–5117	Rod – Threaded	1	27	1
93–5118	Rod – Battery	1	23	1
93–5119	Fitting	1	4	1
93–5120	Cover – Battery	1	28	1
93–5121	Axle – Rear	26	46	1
93–5129	Bracket – Pedal	6	22	1
93–5133	Pedal – Traction	6	17	1
93–5137	Lever – Traction	6	2	1
93–5140	Pivot – Axle	26	13	1
93–5142	Pin – Axle, Pivot	26	10	1
93–5157	Bar	29	15	2
93–5158	Spindle – RH	26	2	1
93–5165	Steering Control Unit	4	26	1
93–5165	Steering Control Unit	32	50	1
93–5166	Bracket – Fan	23	13	1
93–5166	Bracket – Fan	22	22	1
93–5168	Asm. – Tie Rod	26	15	1
93–5169	Asm. – Clamp & Tube	26	48	1
93–5171	Bracket – Counter Balance	8	21	1
93–5173	Tube – Control	6	5	1
93–5175	Lever	6	11	1
93–5187	Hub – Fan	22	15	1
93–5190	Hub – Fan	22	16	1
93–5191	Pulley – Fan	22	21	1
93–5192	Pulley – Crank	22	25	1
93–5194	Pulley – Idler	23	10	1
93–5196	Spacer – Crank	22	26	1
93–5197	Spacer – Idler	23	9	1
93–5198	V–Belt	22	17	1
93–5204	Spacer	4	5	2
93–5205	Column – Steering	4	8	1
93–5208	Rod – Tilt	4	28	1
93–5212	Wheel – Steering	4	13	1
93–5215	Strap	2	38	1
93–5229	Screen – Rear	25	6	1
93–5250	Seal – Bulb, Side	25	4	2
93–5251	Seal – Bulb, Top	25	5	1
93–5253	Strip – Foam, Hood	29	3	1
93–5254	Strip – Foam, Rear	25	15	1
93–5255	Strip – Foam	3	32	1
93–5262	Spring – Extension	14	9	2
93–5262	Spring – Extension	4	22	1
93–5265	Mount – Engine	22	4	4
93–5268	Nut – Lug	7	18	10
93–5270	Switch – Toggle	16	6	1
93–5273	Strap – Felt	2	36	1
93–5276	Pawl – Brake	4	24	1
93–5280	Arm – Brake, LH	14	23	1
93–5284	Arm – Brake, RH	14	31	1
93–5306	Bracket – Transaxle	7	28	1
93–5307	Mount – ISO	3	21	4
93–5308	Washer – ISO Mount	3	20	4
93–5309	Rod – Brake, Parking	4	21	1
93–5310	Cover – Tubes	3	2	1
93–5312	Knob	4	11	1
93–5313	Bushing – Nylon	14	17	4
93–5326	Bellcrank	14	8	2
93–5333	Rod – Control	14	1	2
93–5334	Strip – Foam, Seat	3	12	2
93–5335	Strip – Foam, Seat	3	13	2
93–5338	Rod – Prop	3	7	1
93–5340	Base – Seat	3	5	1
93–5343	Pin – Clevis	3	4	2
93–5346	Assembly – Hose	32	6	1
93–5347	Abrasive – Pedal	6	15	1
93–5348	Abrasive – Floor	3	15	1
93–5349	Abrasive – Floor	3	26	1
93–5350	Cable – Throttle	16	33	1
93–5353	Assembly – Hose	32	29	2
93–5355	Assembly – Hose	32	23	1
93–5356	Assembly – Hose	32	25	1
93–5357	Hose	32	20	1
93–5358	Hose	32	5	2
93–5360	Assembly – Hose	32	4	1
93–5361	Assembly – Hose	32	13	1
93–5363	Latch	3	10	1
93–5366	Shaft – Latch	3	9	1
93–5367	Spring – Torsion	3	11	1
93–5368	Abrasive – Pedal	6	16	1
93–5369	Console	15	1	1
93–5373	Lever – Throttle	16	37	1
93–5376	Plate – Control	16	21	1
93–5381	Bracket	8	43	1
93–5383	Lever	7	3	1
93–5384	Spacer	1	15	2
93–5385	Assembly – Hose	32	63	1
93–5386	Assembly – Hose	32	21	1
93–5389	Asm. – Engine, Peugeot	22	11	1
93–5392	O–Ring	24	29	1
93–5398	Screw – HH	34	20	6
93–5399	Console – LH	15	28	1
93–5403	Cover – Console	15	19	1
93–5413	Strip – Foam	15	26	2
93–5414	Strip – Foam	15	27	2
93–5418	Cable – Battery, Negative	1	24	1
93–5420	Screw – Cap	29	13	8
93–5422	Decal – Hood	25	12	2
93–5424	Decal – Tower	4	7	1
93–5425	Decal – Control	16	17	1
93–5427	Spacer – Intake	29	11	1
93–5428	Asm. – Shaft, Steering	4	19	1
93–5429	Collar – Foam	4	16	1
93–5431	Tire	7	16	2
93–5434	Bracket – Switch	20	17	1
93–5438	Rotor – Brake	7	21	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93–5439	Seal – Steering	4	17	1
93–5440	Bumper	19	3	1
93–5446	Cap – Vinyl	4	20	1
93–5447	Nut – Clinch	4	6	12
93–5447	Nut – Clinch	3	16	12
93–5447	Nut – Clinch	15	24	8
93–5449	Nut – Clinch	3	17	9
93–5450	Nut – Clinch	19	7	1
93–5450	Nut – Clinch	25	16	4
93–5450	Nut – Clinch	1	19	7
93–5453	Stand – Pipe	1	11	1
93–5455	Pedal – LH	14	15	1
93–5456	Pedal – RH	14	11	1
93–5473	Lever – Brake, LH	14	25	1
93–5474	Lever – Brake, RH	14	33	1
93–5475	Latch – Brake	14	30	1
93–5476	Switch	16	36	1
93–5478	Cluster – Warning Light	16	15	1
93–5481	Cluster – Warning Light	16	14	1
93–5482	Hose – Fuel	29	5	2
93–5483	Hose – Fuel	1	2	1
93–5484	Hose – Fuel	29	6	1
93–5484	Hose – Fuel	1	12	1
93–5485	Hose – Fuel	1	6	1
93–5485	Hose – Fuel	22	8	1
93–5486	Hub	6	8	1
93–5488	Post – Hub	6	10	1
93–5493	Kit – Repair, Seal	21	*	1
93–5496	Spindle – LH	26	35	1
93–5502	Cylinder – Steering	32	26	1
93–5502	Cylinder – Steering	26	39	1
93–5503	Pin – Spindle, Pivot	26	38	2
93–5504	Lever	23	12	1
93–5507	Abrasive – Platform	3	25	1
93–5509	Spring – Torsion	16	49	1
93–5510	Bracket	16	45	1
93–5512	Spacer	16	48	1
93–5515	Lever	16	50	1
93–5517	Wire Harness	16	*	1
93–5518	Wire Harness	16	20	1
93–5527	Panel – Access	15	14	1
93–5528	Fitting – Drain Cock	24	33	1
93–5536	Hose – Degasser	23	18	1
93–5537	Hose	24	28	1
93–5538	Hose	24	3	1
93–5539	Hose	23	1	1
93–5547	Bushing – Nylon	16	2	2
93–5548	Rim	7	19	2
93–5551	Clevis	14	29	2
93–5552	Clevis	14	6	2
93–5554	Hinge – Cover	15	23	1
93–5555	Rod	27	6	1
93–5556	Screw – Knurled	15	13	2
93–5557	Retainer – Nylon	15	15	2
93–5558	Nut – Clip On	15	12	2
93–5559	Yoke – Flange	34	8	1
93–5560	Yoke & Clamp	34	18	1
93–5560	Yoke – Clamp	34	12	2
93–5561	Kit – Cross & Bearing	34	2	2
93–5561	Kit – Cross & Bearing	34	16	2
93–5562	Yoke & Shaft	34	5	1
93–5563	Yoke – Slip	34	3	1
93–5564	Yoke & Shaft	34	15	1
93–5565	Yoke & Sleeve	34	14	1
93–5566	Arm – Latch	25	19	1
93–5568	Arm – Lock	14	22	1
93–5570	Handle – Latch	25	2	1
93–5571	Tube – Hydraulic	32	31	1
93–5572	Tube – Hydraulic	32	32	1
93–5573	Tube – Hydraulic	32	51	1
93–5574	Tube – Hydraulic	32	47	1
93–5575	Tube – Hydraulic	32	49	1
93–5576	Tube – Hydraulic	32	48	1
93–5577	Tube – Hydraulic	32	52	1
93–5578	Tube – Hydraulic	32	1	1
93–5587	Bracket – Bulkhead	32	40	1
93–5589	Hose	32	55	1
93–5590	Nut	4	14	1
93–5594	Guard – Muffler	19	10	1
93–5595	Hose – Radiator, Upper	24	1	1
93–5596	Hose – Radiator, Lower	22	5	1
93–5596	Hose – Radiator, Lower	24	32	1
93–5597	Hose – Radiator	24	30	1
93–5599	Bracket – Seat, RH	18	8	1
93–5600	Bracket – Seat, LH	18	9	1
93–5605	Rod	3	30	1
93–5607	Nut – Lock	21	2	1
93–5608	Assembly – Piston	21	4	1
93–5609	Assembly – Tube	21	1	1
93–5610	Assembly – Rod	21	7	1
93–5611	Assembly – Head	21	11	1
93–5612	Ring – Retaining	21	13	1
93–5613	Spacer	21	14	1
93–5614	Ring – Retaining	21	15	1
93–5621	Decal – Warning	15	18	1
93–5622	Decal – Warning	15	18	1
93–5625	Decal – Service	15	20	1
93–5627	Platform	3	1	1
93–5628	Frame	1	18	1
93–5629	Cover – Tower	4	12	1
93–5633	Housing –Tower	4	1	1
93–5637	Strip – Foam	15	30	2
93–5638	Cover – Tube	29	21	2
93–5650	Engine – Stripped	35	*	1
93–5651	Cylinder Block Assembly	35	3	1
93–5652	Engine Gasket Set	35	16	1
93–5653	Plug Seal	35	10	2
93–5654	Plug Seal	35	15	1
93–5656	Plug	44	4	2
93–5656	Plug	35	8	1
93–5657	Screw	35	12	10
93–5658	Pin	41	2	1
93–5658	Pin (Dowel)	35	13	1
93–5659	Pin	45	10	2
93–5659	Pin (Dowel–Ring)	35	2	2
93–5660	Stud	40	5	3
93–5660	Stud	35	11	3
93–5660	Stud	42	15	1
93–5661	Cylinder Head	36	13	1
93–5662	Cover	36	10	1
93–5664	Cylinder Head Gasket Set	36	*	1
93–5665	Gasket	36	11	1
93–5666	Gasket	36	*	1
93–5668	Asm. – Oil Cap Filler	36	7	1
93–5669	Gasket	36	3	8
93–5669	Plug	36	14	4
93–5670	Filter Element	36	19	1
93–5672	Screw	36	2	4
93–5673	Screw	36	9	4
93–5674	Nut	36	4	6
93–5676	Upper Cover	36	1	1
93–5677	Lower Cover	36	23	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93–5678	Screw	36	24	5
93–5679	Screw	36	33	1
93–5680	Screw	36	32	1
93–5681	Crankshaft	37	17	1
93–5682	Engine Flywheel	37	25	1
93–5683	Starter Ring Gear	37	26	1
93–5684	Gear	37	3	1
93–5685	Crankshaft Pulley	37	2	1
93–5686	Gasket Plate	37	29	1
93–5687	Gasket Plate	37	6	1
93–5688	Half Bearing	37	31	6
93–5689	Half Bearing	37	*	6
93–5690	Half Bearing	37	*	6
93–5691	Half Bearing	37	32	4
93–5692	Half Bearing	37	*	4
93–5693	Half Bearing	37	*	4
93–5694	Half Flanges	37	33	2
93–5695	Half Flanges	37	*	2
93–5696	Half Flanges	37	*	2
93–5697	Half Flanges	37	*	2
93–5698	Oil Pump Gear	37	8	1
93–5699	Spacer	37	4	1
93–5700	Plug	37	22	1
93–5701	Gasket	37	7	1
93–5702	Gasket	37	19	1
93–5703	Key	37	9	1
93–5704	Screw	40	9	16
93–5704	Screw	37	28	6
93–5705	Pin	37	23	3
93–5706	Pin	37	30	4
93–5707	Stud	37	27	2
93–5708	Screw	37	24	6
93–5709	Screw	37	21	1
93–5710	Screw	37	5	2
93–5711	Screw	37	34	3
93–5712	Set Of 4 Connecting Rods	37	15	1
93–5713	Set Of 8 Half Bearings	37	16	1
93–5714	Set Of 3 Piston Rings	37	13	4
93–5714	Piston Ring Set	35	5	1
93–5715	Connecting Rod Bolt	37	10	8
93–5716	Circlip	37	11	8
93–5717	Camshaft	38	4	1
93–5718	Camshaft Seal	38	3	1
93–5719	Camshaft Gear	38	1	1
93–5719	Inj. Pump Gear	45	23	1
93–5720	Cogged Belt	39	23	1
93–5721	Tensioner	39	19	1
93–5722	Roller	39	21	1
93–5723	Pulley Hub	38	2	1
93–5724	Tensioner Spindle	39	18	1
93–5725	Pulley Screw	39	25	1
93–5726	Screw	39	22	1
93–5728	Plate Washer	39	24	1
93–5729	Nut	39	20	1
93–5730	Intake Valve	39	13	4
93–5731	Exhaust Valve	39	14	4
93–5732	Valve Spring	39	9	8
93–5733	Valve Spring Seat	39	8	8
93–5734	Valve Half Bush	39	7	16
93–5735	Valve Seal	39	11	8
93–5736	Tappet	39	6	8
93–5737	Inlet Valve Guide	39	16	4
93–5738	Outlet Valve Guide	39	17	4
93–5739	Inlet Seat Valve	39	12	4
93–5740	Outlet Seat Valve	39	15	4
93–5741	Flat Washer	39	10	8
93–5742	Shim – Tappet (3.20 mm)	38	5	8
93–5743	Shim – Tappet (3.25 mm)	38	*	8
93–5744	Shim – Tappet (3.30 mm)	38	*	8
93–5745	Shim – Tappet (3.35 mm)	38	*	8
93–5746	Shim – Tappet (3.40 mm)	38	*	8
93–5747	Shim – Tappet (3.45 mm)	38	*	8
93–5748	Shim – Tappet (3.50 mm)	38	*	8
93–5749	Shim – Tappet (3.55 mm)	38	*	8
93–5750	Shim – Tappet (3.60 mm)	38	*	8
93–5751	Shim – Tappet (3.65 mm)	38	*	8
93–5752	Shim – Tappet (3.70 mm)	38	*	8
93–5753	Shim – Tappet (3.72 mm)	38	*	8
93–5754	Shim – Tappet (3.75 mm)	38	*	8
93–5755	Shim – Tappet (3.77 mm)	38	*	8
93–5756	Shim – Tappet (3.80 mm)	38	*	8
93–5757	Shim – Tappet (3.82 mm)	38	*	8
93–5758	Shim – Tappet (3.85 mm)	38	*	8
93–5759	Shim – Tappet (3.87 mm)	38	*	8
93–5760	Shim – Tappet (3.90 mm)	38	*	8
93–5761	Shim – Tappet (3.92 mm)	38	*	8
93–5762	Shim – Tappet (3.95 mm)	38	*	8
93–5763	Shim – Tappet (3.97 mm)	38	*	8
93–5764	Shim – Tappet (4.00 mm)	38	*5	8
93–5765	Shim – Tappet (4.02 mm)	38	*	8
93–5766	Shim – Tappet (4.05 mm)	38	*	8
93–5767	Shim – Tappet (4.07 mm)	38	*	8
93–5768	Shim – Tappet (4.10 mm)	38	*	8
93–5769	Shim – Tappet (4.12 mm)	38	*	8
93–5770	Shim – Tappet (4.15 mm)	38	*	8
93–5771	Shim – Tappet (4.17 mm)	38	*	8
93–5772	Shim – Tappet (4.20 mm)	38	*	8
93–5773	Shim – Tappet (4.22 mm)	38	*	8
93–5774	Shim – Tappet (4.25 mm)	38	*	8
93–5775	Shim – Tappet (4.27 mm)	38	*	8
93–5776	Shim – Tappet (4.30 mm)	38	*	8
93–5777	Shim – Tappet (4.32 mm)	38	*	8
93–5778	Shim – Tappet (4.35 mm)	38	*	8
93–5779	Shim – Tappet (4.37 mm)	38	*	8
93–5780	Shim – Tappet (4.40 mm)	38	*	8
93–5781	Shim – Tappet (4.42 mm)	38	*	8
93–5782	Shim – Tappet (3.45 mm)	38	*	8
93–5783	Shim – Tappet (4.47 mm)	38	*	8
93–5784	Shim – Tappet (4.50 mm)	38	*	8
93–5785	Shim – Tappet (4.52 mm)	38	*	8
93–5786	Shim – Tappet (4.55 mm)	38	*	8
93–5787	Shim – Tappet (4.57 mm)	38	*	8
93–5788	Shim – Tappet (4.60 mm)	38	*	8
93–5789	Shim – Tappet (4.62 mm)	38	*	8
93–5790	Shim – Tappet (4.65 mm)	39	*5	8
93–5791	Shim – Tappet (4.67 mm)	39	*	8
93–5792	Shim – Tappet (4.70 mm)	39	*	8
93–5793	Shim – Tappet (4.72 mm)	39	*	8
93–5794	Shim – Tappet (4.75 mm)	39	*	8
93–5795	Shim – Tappet (4.77 mm)	39	*	8
93–5796	Shim – Tappet (4.80 mm)	39	*	8
93–5797	Shim – Tappet (4.82 mm)	39	*	8
93–5798	Shim – Tappet (4.85 mm)	39	*	8
93–5799	Shim – Tappet (4.87 mm)	39	*	8
93–5800	Shim – Tappet (4.90 mm)	39	*	8
93–5801	Oil Pump	41	4	1
93–5802	Strainer	41	6	1
93–5803	Screw	41	10	3
93–5804	Oil Pump Chain	41	1	1
93–5805	Spring	41	8	1
93–5806	Shaft	41	7	1
93–5807	Screw	41	5	6

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93–5807	Screw	43	5	1
93–5808	Oil Filter – 1st Build Up	40	10	1
93–5809	Adaptor	40	11	1
93–5810	Oil Sump	40	4	1
93–5811	Dipstick Guide	40	15	1
93–5812	Oil Dipstick	40	16	1
93–5813	Threaded Plug	40	14	1
93–5814	Gasket	40	13	2
93–5815	Nut	40	6	3
93–5816	Regulator	40	3	1
93–5817	Union	40	2	1
93–5818	Clamp	40	1	2
93–5819	Water Inlet	42	11	1
93–5820	Water Pump	42	4	1
93–5821	O–Ring	42	10	1
93–5822	O–Ring	42	5	1
93–5823	Screw	42	12	2
93–5824	By–pass Union	42	9	1
93–5825	Heat Shield	42	13	1
93–5826	Clip	42	6	1
93–5827	Screw	42	14	2
93–5829	Water Outlet Box	43	13	1
93–5830	Cover	43	7	1
93–5831	Thermostat	43	6	1
93–5832	Sender	43	12	1
93–5833	Plug	43	10	1
93–5834	Plug	43	*	2
93–5835	Bleed Screw	43	1	1
93–5836	Insert	43	4	1
93–5837	Water Box Gasket	43	9	1
93–5838	O–Ring	43	3	2
93–5839	Screw	43	8	4
93–5840	Washer	43	2	1
93–5841	O–Ring	44	1	1
93–5842	Air Union	44	12	1
93–5843	Intake Manifold	44	3	1
93–5844	Air Divider	44	5	1
93–5845	Bracket	44	7	1
93–5846	Stud	44	11	7
93–5847	Screw	44	2	4
93–5848	Injection Pump	45	20	1
93–5849	Injection Pump Bracket	45	9	1
93–5851	Screw	39	26	3
93–5851	Screw	45	22	3
93–5852	Screw	45	8	5
93–5853	Screw	45	*	1
93–5854	Screw	45	21	3
93–5855	Plate Washer	45	17	1
93–5856	Solenoid Valve	45	5	1
93–5857	Inlet Union	45	25	1
93–5858	Outlet Union	45	3	1
93–5860	Injector	46	4	4
93–5861	Pipes Harness	46	3	1
93–5862	Union	46	1	3
93–5863	Union	46	*	1
93–5864	Spring	46	6	4
93–5865	Spacer	46	7	4
93–5866	Injector Gasket	46	9	4
93–5867	Injector Gasket	46	5	4
93–5868	Injector + Injector Holder	46	10	4
93–5869	Shim (.680 mm)	46	8	1
93–5870	Shim (.720 mm)	46	*	1
93–5871	Shim (.760 mm)	46	*	1
93–5872	Shim (.800 mm)	46	*	1
93–5873	Shim (.840 mm)	46	*	1
93–5874	Shim (.880 mm)	46	*	1
93–5875	Shim (.920 mm)	46	*	1
93–5876	Shim (.960 mm)	46	*	1
93–5877	Shim (1.000 mm)	46	*	1
93–5878	Shim (1.035 mm)	46	*	3
93–5879	Shim (1.065 mm)	46	*8	1
93–5880	Shim (1.095 mm)	46	*	1
93–5881	Shim (1.125 mm)	46	*	1
93–5882	Shim (1.155 mm)	46	*	1
93–5883	Shim (1.185 mm)	46	*	1
93–5884	Shim (1.215 mm)	46	*	1
93–5885	Shim (1.245 mm)	46	*	1
93–5886	Shim (1.280 mm)	46	*	1
93–5887	Shim (1.320 mm)	46	*	1
93–5888	Shim (1.400 mm)	46	*	1
93–5889	Shim (1.480 mm)	46	*	1
93–5890	Shim (1.560 mm)	46	*	1
93–5891	Shim (1.640 mm)	46	*	1
93–5892	Pipe Gasket	36	31	1
93–5893	Exhaust Manifold	36	27	1
93–5894	Gasket	36	25	1
93–5895	Stud	36	26	5
93–5896	Hexagonal Nut	36	29	8
93–5897	Plate Washer	36	28	8
93–5898	Stud	36	30	3
93–5899	Right Hand Engine Mount	47	7	1
93–5901	Lifting Bracket	47	1	1
93–5902	Screw	47	6	3
93–5903	Hexagonal Nut	47	5	1
93–5904	Plate Washer	47	4	1
93–5905	Stud	47	3	1
93–5906	Screw	47	2	4
93–5907	Alternator	48	2	1
93–5908	Screw	48	1	1
93–5909	Ring	48	4	1
93–5909	Ring	45	18	1
93–5910	Tensioner	48	11	1
93–5911	Screw	48	8	1
93–5912	Belt	48	5	1
93–5914	Washer	48	10	2
93–5915	Starter	49	4	1
93–5916	Heat Shield	49	1	1
93–5917	Pin	49	5	1
93–5919	Screw	49	15	2
93–5920	Nut	49	3	1
93–5921	Glow Plug	49	14	4
93–5922	Cable	49	13	1
93–5923	Preheating Unit	49	6	1
93–5924	Nut	49	12	4
93–5925	Cover Plate	36	20	1
93–5926	O–Ring	36	15	1
93–5927	Screw	36	17	2
93–5928	Spring Washer	36	16	2
93–5930	Decal – Operating Instruct.	15	9	1
93–5932	Decal – Fuses	15	10	1
93–5934	Decal – Service	15	20	1
93–5941	Axle – 2 Speed	7	26	1
93–5942	Hose	22	30	1
93–5942	Radiator	24	22	1
93–5943	Valve – Logic	33	8	1
93–5944	Valve – Needle	33	4	1
93–5945	Plug – Orifice (Optional)	33	9	1
93–5946	Muffler	19	13	1
93–5947	Cyl. Head Gasket	36	21	1
93–5948	Knob – Knurled	33	7	1
93–5949	Screw – HHF	15	5	2
93–5954	Foam – Plug	24	36	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
93–5965	Block – Cylinder	35	*	1
93–5966	Kit – Bearing	11	14	2
93–5967	Asm. – Carrier, Trunnion Brg.	10	*	1
93–5968	Asm. – Carrier, Trunnion Brg.	10	*	1
93–5969	Asm. – Return, Neutral	9	*	1
93–5970	Kit – Arm, Neutral Return	9	*	1
93–5971	Kit – Seal, Overhaul	9	8	1
93–5972	Guide – Slot	9	68	2
93–5977	Shield – Brake	7	30	2
93–6028	Plate – Logo, Toro	25	8	1
93–7037	Nut – Lock	20	16	2
93–7494	Cartridge – NO, Poppet	33	17	1
93–7571	Degasing Box	42	2	1
93–7572	Water Level Sensor	42	17	1
93–8744	Rivet – Pop	15	29	3
93–9164	Indicator	30	1	1
94–1410	Holder – Beverage Can	15	17	1
94–1412	Assembly – Element	30	3	1
94–1414	Valve	30	5	1
94–1416	Assembly – Adapter	30	6	1
94–2638	Nut – Tinnermann	25	7	4
94–2800	Pressure Plug	42	1	1
94–2801	Grommet	42	16	2
94–3112	Screw	37	1	4
94–3118	Plug	36	18	2
94–3121	Plug	45	14	1
94–3121	Threaded Plug	35	9	2
94–3122	Gasket	45	13	1
94–3131	Screw	44	8	1
94–3145	Pulley Screw	37	36	1
94–3161	Screw	44	6	2
94–3162	Stud	36	5	6
94–3163	Screw	42	3	2
94–3164	Spring Washer	44	10	7
94–3164	Spring Washer	45	16	1
94–3165	Hexagonal Nut	45	11	1
94–3165	Nut	44	9	7
94–3176	Plunger	41	9	1
94–3177	Plug	41	11	1
94–3180	Pressure Switch	40	12	1
94–3211	Thermoswitch	43	11	1
94–3221	Screw	48	3	1
94–3221	Screw	45	15	1
94–3231	Bracket	46	2	4
94–3250	Union Screw – Outlet	45	26	1
94–3251	Nut	45	7	1
94–3251	Nut	49	9	1
94–3257	Washer	48	6	3
94–3261	Nut	49	2	1
94–3267	Nut	42	7	2
94–3267	Nut	49	8	1
94–3274	O–Ring	45	4	1
94–3395	Decal – 4 WD	29	17	2
94–3604	Shaft – Pump	8	41	1
94–3900	Center Section	13	29	1
94–3901	Shaft – Input	8	23	1
94–3903	Pinion – Drive, Pump	8	26	1
94–3905	Gear – Drive, Pump	8	28	1
94–3906	Shaft – Motor	8	42	1
94–3907	Retainer – Bearing	11	30	1
94–3908	Coupling – Gear, Change	8	34	1
94–3909	Pinion – Drive, PTO	11	39	1
94–3910	Shaft – Clutch	12	5	1
94–3912	Gear – Final Drive	11	31	1
94–3913	Shaft – Front PTO	11	12	1
94–3914	Gear – Drive, PTO	11	38	1
94–3915	Plug	13	14	5
94–3916	Spool	13	15	1
94–3917	Spring – Helical	13	16	1
94–3919	Pinion – Drive, Final	8	33	1
94–3920	Housing – Gear	11	10	1
94–3921	Plate – Valve, Motor	8	49	1
94–3922	Coupling – Pump, Gear	13	35	1
94–3923	Coupling – 2 Speed	8	35	1
94–3924	Yoke – 2 Speed	8	30	1
94–3925	Seal – Lip	13	3	2
94–3925	Seal – Lip	12	12	1
94–3929	Plate – Return, Neutral	8	10	1
94–3932	Ring – Retaining	9	64	1
94–3934	Shaft – Trunnion	9	62	1
94–3936	Nut – Lock	10	17	1
94–3938	Carrier – Bearing	11	18	1
94–3939	Seal – Lip	10	2	1
94–3940	Screw – HH	8	6	1
94–3940	Screw – HH	10	9	14
94–3942	Bearing – Ball	13	4	2
94–3942	Bearing – Ball	12	17	1
94–3942	Bearing – Ball	8	40	1
94–3943	Cover – Return, Neutral	8	20	1
94–3944	Gasket – Return, Neutral	8	22	1
94–3945	Ring – Retaining	10	8	1
94–3946	Shaft – Trunnion	9	57	1
94–3949	Spacer – Drive, Final	8	36	1
94–3950	Union – Filter	13	12	1
94–3951	Filter	13	13	1
94–3953	Nut – Lock	8	29	1
94–3953	Nut – Lock	11	37	1
94–3956	Bearing – Ball	8	50	1
94–3957	Bearing – Needle	8	52	1
94–3958	Spacer – Pinion	11	32	1
94–3959	Gasket – Housing	11	27	1
94–3960	Bearing – Ball	12	6	3
94–3960	Bearing – Ball	8	39	1
94–3961	Bearing – Ball	11	29	1
94–3962	Ring – Retaining	10	3	1
94–3963	Ring – Retaining	8	32	1
94–3966	Switch	10	4	2
94–3966	Switch	8	15	2
94–3967	Swashplate – Pump, Variable	9	59	1
94–3968	Pump – Gear	13	1	1
94–3969	Clutch – PTO	12	4	1
94–3970	Assembly – Differential	11	17	1
94–3971	Bearing – Ball	11	26	3
94–3971	Bearing – Ball	8	25	1
94–3972	Clamp – Differential	11	16	1
94–3973	Plate – Valve, Pump	9	53	1
94–3974	Pin	8	51	2
94–3975	Pin	11	25	4
94–3975	Pin	12	24	2
94–3975	Pin	8	46	2
94–3978	Plate – Thrust	9	61	1
94–3979	Valve	13	21	2
94–3981	Plug	13	18	2
94–3982	O–Ring	13	19	3
94–3983	Assembly – Sleeve	13	9	2
94–3984	Piston	13	10	2
94–3985	Spring	13	8	2
94–3986	Plug – Hex. Head	13	6	2
94–3987	O–Ring	13	7	2
94–3988	Cone – Valve, Relief	13	22	1
94–3989	Spring – Helical	13	23	1
94–3990	Plug – Relief, Implement	13	26	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
94–3991	Cover – Front	12	9	1
94–3992	Gasket – Center Section	9	56	1
94–3993	Plug	13	5	1
94–3994	Ring – Retaining	8	27	1
94–3995	Washer	12	1	1
94–3996	Ring – Retaining	12	7	1
94–3997	Ring – Retaining	11	28	3
94–3997	Ring – Retaining	8	37	3
94–3998	Vent – Breather	12	11	1
94–3999	Screw	13	11	2
94–4001	Gasket – Cover, Front	12	8	1
94–4002	Screw – HHF	8	9	8
94–4002	Screw – HHF	11	19	6
94–4003	Screw – HHF	11	15	2
94–4004	Screw – HHF	12	23	10
94–4004	Screw – HHF	8	44	23
94–4005	Spring – Compression	12	3	1
94–4006	Ring – Retaining	12	2	1
94–4007	Screw – HHF	11	8	14
94–4007	Screw – HHF	10	20	4
94–4008	Screw	12	16	4
94–4009	Screw	12	10	6
94–4009	Screw	10	14	4
94–4010	Cover – Gerotor	12	15	1
94–4011	O–Ring	12	14	1
94–4012	Tube – Lubrication	12	19	1
94–4013	Screw – HHF	12	20	2
94–4014	Screw – Socket Head	11	36	6
94–4015	Gasket – Housing	11	9	2
94–4016	Screw – Adjusting	13	24	1
94–4017	Nut	13	25	1
94–4018	Plug	13	28	2
94–4020	Screw	13	33	8
94–4021	Bearing	13	31	1
94–4022	Shaft – 4 Wheel Drive	13	34	1
94–4023	Coupling – 4 Wheel Drive	13	32	1
94–4024	Washer	11	34	1
94–4025	Nut – Lock	11	35	1
94–4026	Screw – HHF	12	25	6
94–4026	Screw – HHF	10	33	4
94–4028	Roller – Needle	10	1	1
94–4029	Ring – Retaining	13	2	2
94–4029	Ring – Retaining	12	13	2
94–4029	Ring – Retaining	8	24	1
94–4030	Assembly – Bearing, Wheel	11	2	2
94–4031	Shaft – Axle, Left	11	1	1
94–4032	Seal – Lip	11	24	2
94–4033	Housing – Axle	11	7	2
94–4034	Washer	11	2	2
94–4035	Shaft – Axle, Right	11	21	1
94–4036	Screw	11	3	6
94–4037	Washer	11	20	2
94–4038	Bracket – Brake	11	6	2
94–4040	Bearing – Ball	9	63	1
94–4041	Hose – Lubricating	12	22	1
94–4042	Clamp	12	21	2
94–4044	Nut – Hex.	8	19	1
94–4045	Adjuster – Threaded	8	16	1
94–4046	Pin	8	18	1
94–4048	Housing – Dipstick	9	66	1
94–4049	Dipstick	9	67	1
94–4050	Screw – HHF	9	65	4
94–4051	O–Ring	9	60	1
94–4052	Pinion – PTO Clutch	11	13	1
94–4053	Gear – Clutch, PTO	12	26	1
94–4058	Swashplate – Variable	8	47	1
94–4059	O–Ring	10	5	2
94–4060	Housing – Control	10	13	1
94–4061	Arm – Control	10	16	1
94–4062	Gasket – Housing	10	18	1
94–4063	Cover – Servo	10	10	2
94–4064	Gasket – Cover	10	11	2
94–4065	Cover – Control	10	19	1
94–4066	Roller – Arm, Control	10	23	1
94–4067	Pin – Headed	10	15	1
94–4068	Washer – Retention, Shaft	10	21	1
94–4069	Screw	10	22	1
94–4070	Piston – Control	10	12	2
94–4071	Plug – Orifice	10	24	2
94–4072	Valve – Solenoid	10	25	1
94–4074	Plug	10	27	1
94–4075	Elbow	10	26	2
94–4075	Elbow	13	30	1
94–4076	Hose	10	28	1
94–4077	Housing – Variable Motor	8	45	1
94–4079	Nut – Lock	11	1	2
94–4088	Screw – Cap	5	9	7
94–4089	Cap – End	5	10	1
94–4090	Gerotor	5	11	1
94–4091	Spacer	5	12	1
94–4092	Plate – Wear	5	14	1
94–4093	Drive	5	13	1
94–4094	Pin	5	6	1
94–4095	Kit – Spring, Centering	5	3	1
94–4096	Kit – Bearing	5	8	1
94–4097	Asm. – Plug	5	15	1
94–4098	Ring – Retaining	5	5	1
94–4099	Kit – Seal	5	1	1
94–4100	Ball	5	16	1
94–4102	Bracket – Mounting	7	10	2
94–4103	Pad	7	15	4
94–4104	Housing	7	11	2
94–4105	Screw	7	14	2
94–4106	Washer	7	13	2
94–4107	Lever	7	12	2
94–4109	Fuse – 80A	15	*	1
94–4111	Union Screw – Inlet	45	1	1
94–4142	Ring – Retaining	11	23	2
94–4143	Stud – Wheel	11	20	10
94–4144	Collar – Bearing	11	22	2
94–4145	Swirl Chamber	36	22	4
94–4146	Screw	36	12	10
94–4147	Injector Holder	46	11	4
94–5438	O–Ring	33	11	4
94–6328	Decal	25	1	1
94–6329	Decal	25	3	1
94–6710	Fuse – 2A	15	*	1
217–122	Rim	26	30	2
218–446	Nut – Hex.	16	9	1
218–447	Washer – Lock	16	8	1
218–498	Nut – Hex.	16	23	1
218–578	Fuse – 10A	15	*	1
218–594	Fuse – 20A	15	*	2
2112–6	Clamp – Muffler	19	14	1
232–27	Stem – Valve	26	31	2
232–27	Valve Stem	7	17	2
233–37	Knob	16	4	1
233–39	Knob – Lever	16	26	1
237–22	O–Ring	32	7	10
237–30	O–Ring	24	16	4
237–35	O–Ring	32	14	1
237–37	Bumper – Rubber	1	20	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
237–42	O–Ring	33	15	4
237–42	O–Ring	32	16	9
237–78	O–Ring	33	20	1
237–78	O–Ring	32	27	2
237–79	O–Ring	32	9	1
237–156	O–Ring	33	19	4
240–4	Grommet	32	39	2
240–5	Grommet	3	6	1
241–119	Cap – Dust	26	29	2
242–50	Nut – Lug	26	32	10
2410–42	Cap – Bumper	19	5	2
2411–36	Bearing – Rod End	6	3	1
2412–21	Clamp – Bodine	16	39	1
2412–36	Clamp – Hose	23	2	4
2412–36	Clamp – Hose	32	3	2
2412–96	Clamp–R	22	43	1
2412–104	Clamp–R	22	31	1
2412–108	Clamp – Hose	1	3	3
2412–108	Clamp – Hose	29	4	2
2412–108	Clamp – Hose	22	9	2
2412–108	Clamp – Hose	32	19	9
2412–110	Clamp – Hose	29	8	3
2412–111	Clamp – Hose	24	2	6
2412–111	Clamp – Hose	23	3	3
2412–114	Clamp – Tube	32	46	1
2412–129	Clamp	42	8	2
2412–130	Clamp – Hose	29	10	2
2412–133	Clamp – R	18	13	2
2412–141	Clamp	24	27	2
2412–141	Clamp – Hose	24	4	3
253–129	Seal – Hub	26	21	2
254–72	Cup – Bearing	26	23	4
254–94	Cone – Bearing	26	22	4
256–10	Bushing – Flange	6	21	2
256–132	Bushing – Flange	4	9	2
256–260	Washer	4	10	2
257–9	Washer	7	25	4
283–2	Pin – Clevis	14	4	4
283–5	Pin – Clevis	4	27	1
283–55	Pin – Clevis	25	18	2
283–62	Pin – Clevis	7	5	1
302–2	Fitting – Grease	26	11	1
302–5	Fitting – Grease	26	17	2
302–5	Fitting – Grease	6	23	1
302–5	Fitting – Grease	14	27	5
302–33	Fitting – Grease	20	4	2
302–55	Fitting – Grease	26	5	3
304–99	Fitting – Barbed	32	12	1
321–3	Screw – HH	18	15	2
322–4	Screw – HH	14	20	1
323–9	Screw – HH	26	7	2
323–44	Screw – HH	7	8	4
3210–7	Screw – HH	26	42	1
3212–4	Screw – HH	18	7	2
3217–6	Nut – Hex.	6	18	2
3217–25	Nut – Hex.	16	28	2
3218–2	Nut – Hex.	14	21	1
3219–10	Nut	33	13	1
3219–14	Nut – Hex.	16	31	12
3220–3	Nut – Jam	6	4	2
3220–3	Nut – Jam	14	5	2
3220–7	Nut – Jam	26	25	2
3231–22	Bolt – Carriage	6	1	1
3234–5	Screw – Flange	18	10	4
3250–14	Screw	15	3	6
3252–2	Screw – SFH	20	15	2
3253–2	Washer – Lock	16	32	10
3253–4	Washer – Lock	34	21	6
3253–4	Washer – Lock	22	24	11
3253–5	Washer – Lock	7	9	4
3253–6	Washer – Lock	18	6	2
3253–6	Washer – Lock	22	41	3
3253–7	Washer – Lock	11	4	6
3253–7	Washer – Lock	34	7	3
3253–15	Washer – Lock	1	5	5
3255–20	Washer – Lock	16	27	2
3256–3	Washer – Flat	19	12	4
3256–3	Washer – Flat	1	30	2
3256–6	Washer – Flat	11	5	6
3256–6	Washer – Flat	29	14	8
3256–7	Washer – Flat	26	19	2
3256–7	Washer – Flat	26	44	1
3256–14	Washer – Flat	16	30	4
3256–23	Washer – Flat	3	24	2
3256–23	Washer – Flat	22	29	2
3256–23	Washer – Flat	32	35	5
3256–24	Washer – Flat	16	34	1
3256–26	Washer – Flat	7	23	8
3256–26	Washer – Flat	6	6	1
3256–27	Washer – Flat	4	15	1
3256–35	Washer – Flat	24	24	4
3256–69	Washer – Flat	3	27	1
3256–82	Washer – Flat	1	25	1
3269–10	Washer – Flat	15	8	2
3269–10	Washer – Flat	25	10	22
3272–5	Pin – Cotter, Hair	4	23	1
3272–7	Pin – Cotter	14	2	4
3272–7	Pin – Cotter	3	23	2
3272–11	Pin – Cotter	26	8	2
3272–11	Pin – Cotter	3	8	2
3272–12	Pin – Cotter, Hair	4	25	1
3272–13	Pin – Cotter	26	27	2
3274–54	Screw – Cap, Hex. Soc. Hd.	2	39	1
3290–134	Screw – HHF	16	41	1
3290–191	Nut – Speed	15	2	6
3290–313	Screw – PH	16	43	4
3290–354	Nut – Speed	16	46	2
3290–355	Pin – Cotter, Hair	6	7	1
3290–355	Pin – Hair, Cotter	3	3	2
3290–467	Pin – Cotter, Hair	7	1	1
3290–467	Pin – Cotter, Hair	14	7	4
3290–467	Pin – Cotter, Hair	25	11	2
3290–488	Boot	16	3	1
3296–4	Nut – Lock	26	40	1
3296–39	Nut – Lock	26	6	2
3296–59	Nut – Lock	6	12	2
32120–10	Ring – Retaining	22	13	1
32120–72	Ring – Retaining	14	18	2
32121–9	Pin – Roll	6	25	1
32121–15	Pin – Roll	14	26	3
32121–44	Pin – Roll	27	15	1
32121–79	Pin – Roll	3	29	1
32121–110	Pin – Spring	26	12	1
32121–110	Pin – Spring	26	36	2
32122–24	Screw	1	9	5
32128–17	Nut – HHF	16	40	1
32136–13	Nut– Castle	26	20	4
32136–13	Nut – Slotted	27	16	1
32141–36	Screw – Level	6	20	1
32144–14	Screw – HH	7	29	4
32146–17	Nut – Hex, Lock	2	37	1
32148–9	Insert – Threaded	2	32	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
32149–7	Nut – Keps	20	18	2
32151–29	Ring – Retaining	4	18	2
32151–72	Ring – Retaining	1	31	2
32151–83	Ring – Retaining	14	28	3
33003–00	Nut – HF	15	22	3
33003–00	Nut – HF	6	24	1
33003–00	Nut – HF	29	23	1
33004–00	Nut – HF	19	6	3
33004–00	Nut – HF	29	16	2
33004–00	Nut – HF	22	32	2
33005–00	Nut – HF	23	11	1
33005–00	Nut – HF	4	29	2
33005–00	Nut – HF	22	38	1
33006–00	Nut – HF	19	2	4
33006–00	Nut – HF	7	7	8
33015–00	Nut – HH	26	1	2
33015–00	Nut – HH	22	37	1
33019–00	Nut – HH	20	3	2
33023–00	Nut – Lock	7	4	1
33023–00	Nut – Lock	23	6	1
33023–00	Nut – Lock	20	10	2
33023–00	Nut – Lock	32	45	1
33023–00	Nut – Lock	16	47	2
33024–00	Nut – Lock	19	1	3
33024–00	Nut – Lock	23	8	3
33024–00	Nut – Lock	24	9	4
33024–00	Nut – Lock	34	10	4
33024–00	Nut – Lock	18	11	4
33024–00	Nut – Lock	14	13	14
33024–00	Nut – Lock	6	13	1
33024–00	Nut – Lock	34	17	2
33024–00	Nut – Lock	1	26	2
33024–00	Nut – Lock	7	27	2
33024–00	Nut – Lock	22	33	10
33024–00	Nut – Lock	32	37	4
33024–00	Nut – Lock	16	42	1
33025–00	Nut – Lock	22	7	4
33025–00	Nut – Lock	1	17	2
33025–00	Nut – Lock	24	19	4
33025–00	Nut – Lock	3	22	4
33025–00	Nut – Lock	16	35	1
33026–00	Nut – Lock	20	11	2
33026–00	Nut – Lock	26	45	6
33094–00	Washer – Flat	29	19	2
33094–00	Washer – Flat	14	32	10
33103–016	Screw – HHF	4	3	16
33103–016	Screw – HHF	16	5	2
33103–016	Screw – HHF	15	11	12
33103–016	Screw – HHF	3	14	2
33103–020	Screw – HHF	23	5	1
33103–020	Screw – HHF	20	14	2
33104–016	Screw – HHF	20	8	2
33104–016	Screw – HHF	22	14	4
33104–016	Screw – HHF	29	18	4
33104–016	Screw – HHF	24	25	4
33104–016	Screw – HHF	32	44	2
33104–020	Screw – HHF	24	13	10
33104–020	Screw – HHF	23	14	1
33104–020	Screw – HHF	25	14	4
33104–020	Screw – HHF	23	17	3
33104–020	Screw – HHF	29	20	2
33104–020	Screw – HHF	22	34	15
33104–020	Screw – HHF	22	36	1
33104–025	Screw – HHF	7	6	2
33104–025	Screw – HHF	32	61	3
33104–035	Screw – HHF	19	11	4
33104–035	Screw – HHF	32	34	2
33104–040	Screw – HHF	16	1	1
33104–040	Screw – HHF	32	57	1
33104–050	Screw – HHF	6	14	1
33104–050	Screw – HHF	22	40	2
33105–020	Screw – HHF	4	4	2
33105–020	Screw – HHF	23	7	2
33105–020	Screw – HHF	22	18	6
33105–025	Screw – HHF	22	42	3
33105–030	Screw – HHF	24	21	4
33105–035	Screw – HHF	22	45	1
33105–040	Screw – HHF	1	13	2
33105–050	Screw – HHF	22	2	4
33105–070	Screw – HHF	22	39	1
33106–020	Screw – HHF	34	6	3
33106–025	Screw – HHF	19	4	4
33106–035	Screw – HHF	26	9	6
33108–040	Screw – HHF	26	18	2
33108–040	Screw – HHF	26	43	1
33113–016	Screw – HH	6	19	4
33113–020	Screw – HH	29	22	1
33113–035	Screw – HH	32	42	1
33113–040	Screw – HH	7	2	1
33114–010	Screw – HH	22	20	6
33114–016	Screw – HH	18	14	4
33114–020	Screw – HH	14	10	1
33114–020	Screw – HH	22	28	2
33114–025	Screw – HH	14	16	3
33114–045	Screw – HH	34	1	2
33114–045	Screw – HH	34	11	4
33114–045	Screw – HH	32	53	1
33114–060	Screw – HH	22	23	4
33115–045	Screw – HH	26	47	2
33115–060	Screw – HH	3	19	4
33116–110	Screw – HH	7	22	8
33116–150	Screw – HH	20	12	2
33119–160	Screw – HH	20	13	2
33124–020	Screw – Carriage	14	3	10
33124–020	Screw – Carriage	19	15	3
33125–045	Screw – Carriage	23	15	1
340–1	Fitting	32	15	1
340–2	Adapter	32	22	8
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*Not Illustrated

Maintenance Record

Date								

Maintenance Record

Date								

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 3000D has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Groundsmaster 3000D, 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 3000D.
2. Part number description and the quantity of part(s) desired.

NOTE: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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