Form No. 3323–402

Groundsmaster® 3000–D

2WD/4WD Traction Unit

Model No. 30301—200000001 and Up
Model No. 30301TC—200000001 and Up
Model No. 30302—200000001 and Up
Model No. 30302TC—200000001 and Up

Parts Catalog

Ordering Replacement Parts

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b.** The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number **6**, the tire by **6:1**, the valve by **6:2**, and the wheel by **6:3**. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part individually.

Reference numbers of this type appear in illustrations and in part lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form **nX y.** The **n** represents the quantity of the part, the **X** is the multiplication symbol, and the **y** represents the reference number.

For example, in an illustration, the reference number **2X 37** means that two of the parts identified by reference number 37 are indicated.

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Accessories

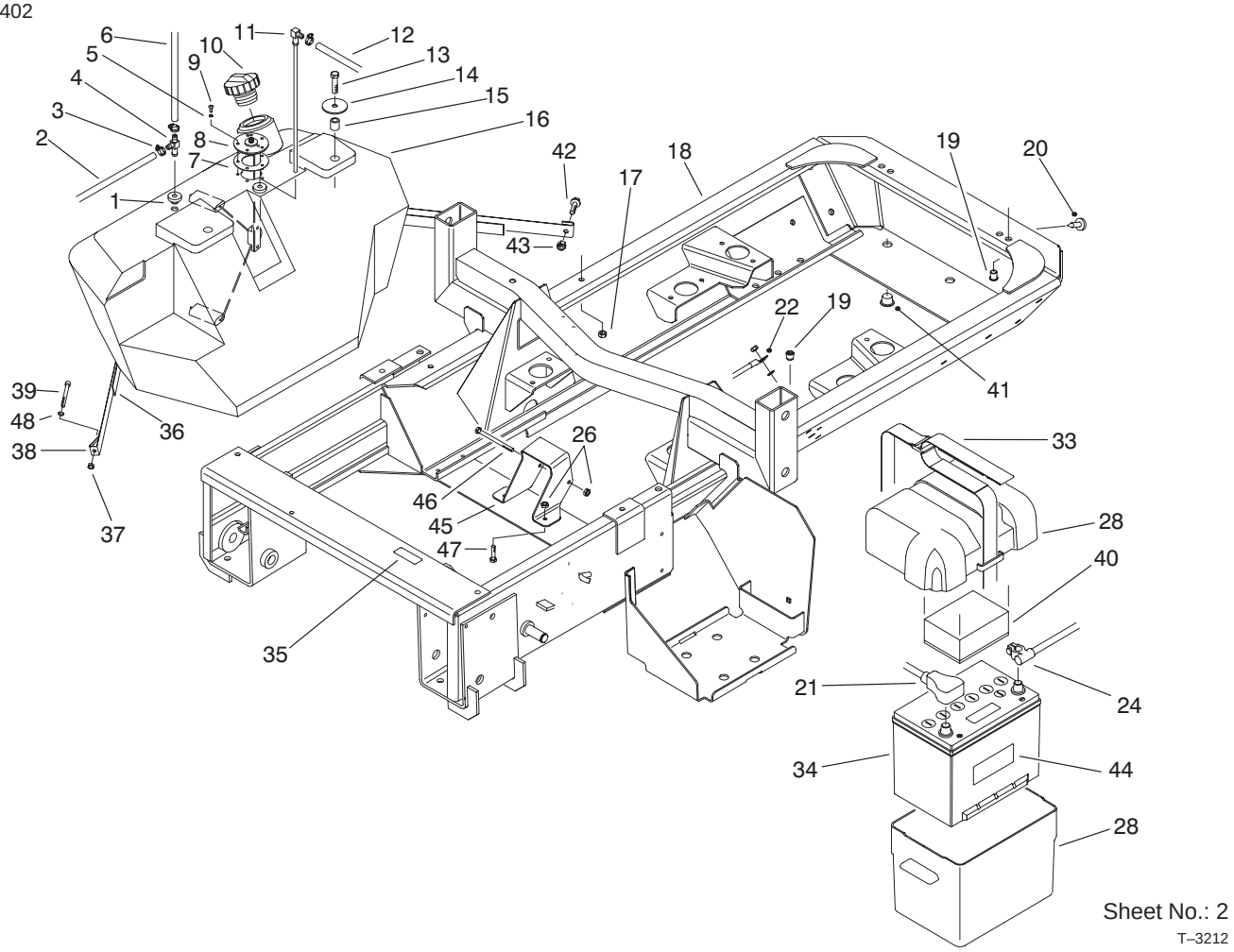
Description	Model / Part No.
Two Post ROPS Kit	30388
Cruise Control Kit	30394
Standard Seat Suspension Kit	30395
Deluxe Seat Suspension Kit	30396
Road Light Kit	30397
Standard Seat Kit	30398
Armrest Kit	30707
Hydraulic Kit (Contour Deck)	30726

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

Abbreviation	Meaning
AR	as required
ASM	assembly
CARR	carriage
DEG	degrees
FH	flat head
GA	gauge
HF	hex flange
HH	hex head
HHF	hex head flange
HLH	hex lag head
HJ	hex jam
HOC	height-of-cut
HS	hex socket
HSBH	hex socket button head
HSFH	hex socket flat head
HSH	hex socket head
HWH	hex washer head
HWHTF	hex washer head thread forming
INC	incorporated
LH	left hand
NI	nylon insert
PPH	Phillips pan head
PTH	Phillips truss head
PTO	power take off
RH	right hand
SFH	slotted fillister head
SHH	slotted hex head
SQH	square head
SHWH	slotted hex washer head
SPH	slotted pan head
SRH	slotted round head
STD	standard
TAP	self tapping
TTH	Torx truss head
WH	wing head

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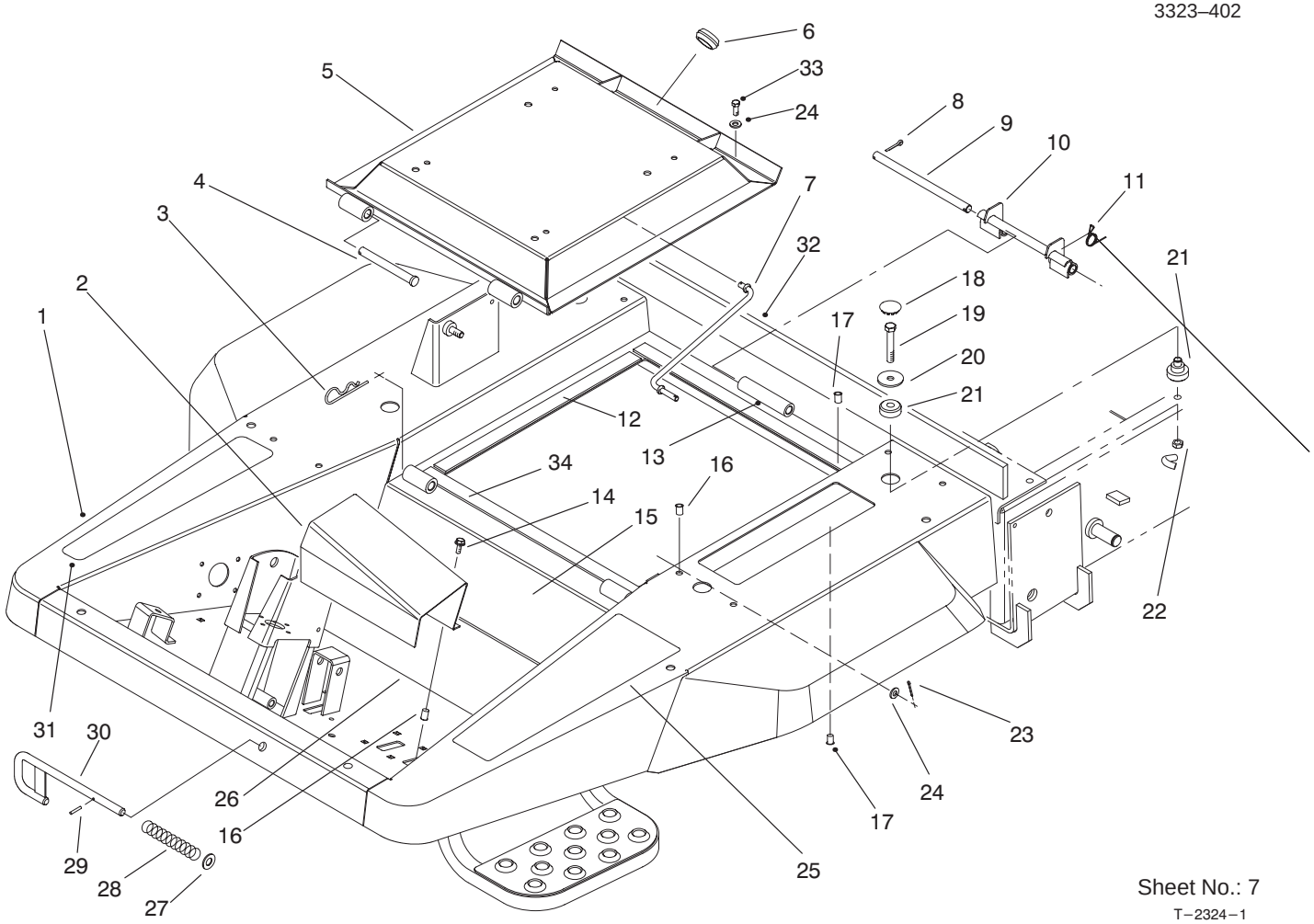


Sheet No.: 2
T–3212

Frame, Fuel Tank & Battery Assembly

Ref. No.	Part No.	Qty.	Description
1	46–6560	2	Bushing
2	93–5483	1	Hose–Fuel
3	2412–108	3	Clamp–Hose
4	93–5119	1	Fitting
5	3253–15	5	Washer–Lock
6	95–5936	1	Hose–Fuel
7	62–7650	1	Gasket
8	92–9267	1	Sender–Fuel
9	32122–24	5	Screw
10	93–3102	1	Cap–Diesel Fuel
11	93–5453	1	Stand–Pipe
12	93–5484	1	Hose–Fuel
13	33105–040	2	Screw–HHF
14	83–1040	2	Washer–Rebound
15	93–5384	2	Spacer
16	95–5621	1	Tank–Fuel
17	33025–00	2	Nut–Lock
18	100–5596	1	Frame (Incl. Ref. #19 & 35)
19	93–5450	7	Nut–Clinch
20	237–37	3	Bumper–Rubber
21	98–7093	1	Cable–Battery, Positive
22	18–2770	1	Cable–Ground
24	93–5418	1	Cable–Battery, Negative
26	33024–00	3	Nut–Lock

Ref. No.	Part No.	Qty.	Description
28	93–7595	1	Battery Box ASM
33	94–1445	1	Strap–Battery Box
34		1	Battery
35	85–4730	1	Decal–Hydraulic Oil Only
35	93–8067	1	Decal–Hydraulic Oil Only (Europe)
36	93–5273	1	Strap–Felt
37	32146–17	1	Nut–Lock
38	95–3034	1	Strap
39	3274–54	1	Screw–HSH
40	93–7968	1	Pad–Foam
41	95–1587	2	Plug–1”
42	33103–016	1	Screw–HHF
43	33023–00	1	Nut–Lock
44	93–6668	1	Decal–Battery Charging (Europe)
45	95–2637–03	1	Guard–Driveshaft
46	33114–120	1	Screw–HH
47	33104–020	2	Screw–HHF
48	3253–3	1	Washer–Lock

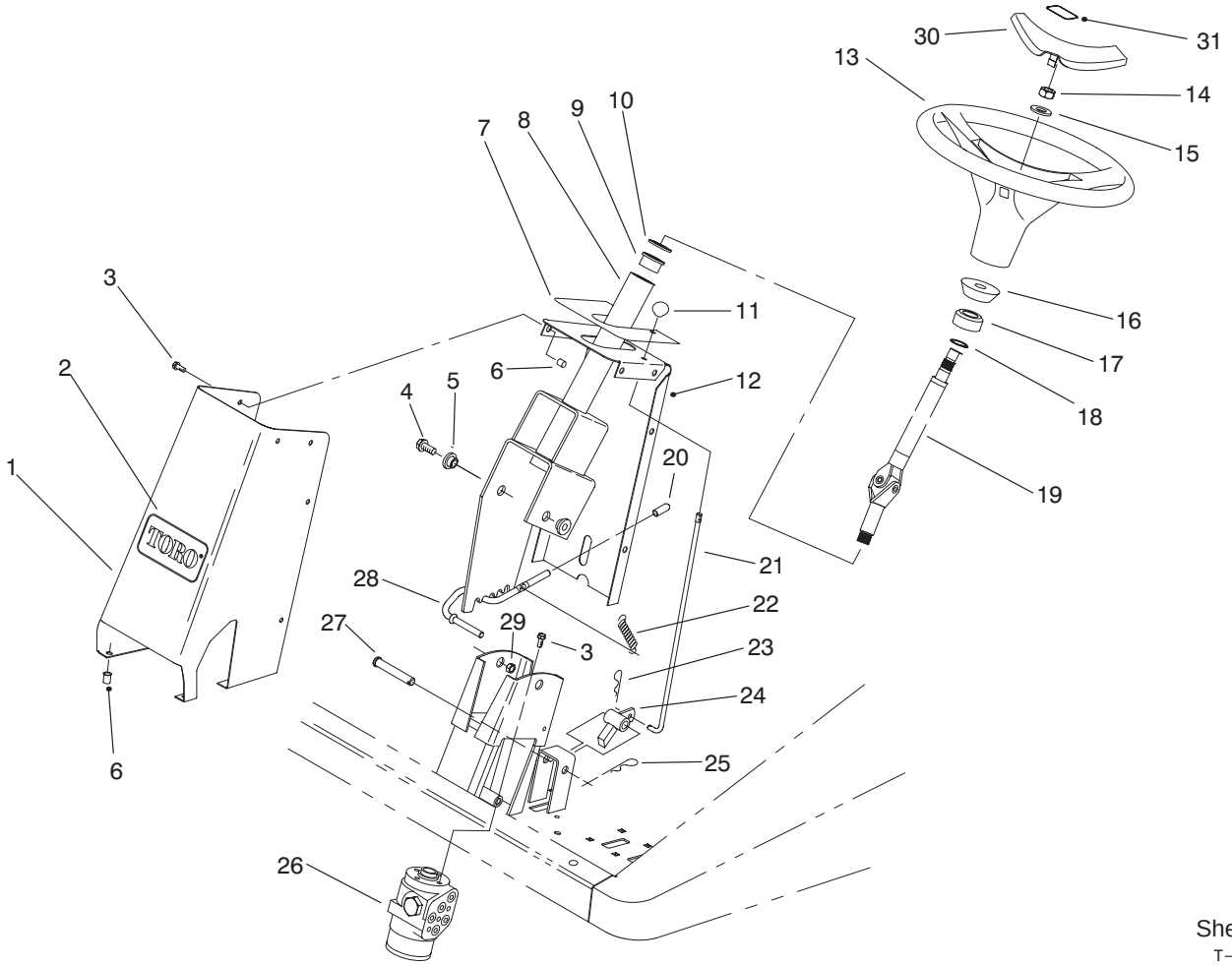


Sheet No.: 7
T–2324–1

Front Frame & Seat Base Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5627	1	Platform (Incl. Ref. #15–17, 25–26, & 31)
2	93–5310–01	1	Cover–Tubes
3	3290–355	2	Pin–Hair, Cotter
4	93–5343	2	Pin–Clevis
5	98–2395–03	1	Base–Seat
6	240–5	1	Grommet
7	93–5338	1	Rod–Prop
8	3272–11	2	Pin–Cotter
9	93–5366	1	Shaft–Latch
10	93–5363	1	Latch
11	93–5367	1	Spring–Torsion
12	93–5334	2	Strip–Foam, Seat
13	93–5335	1	Strip–Foam, Seat
14	33103–016	2	Screw–HHF
15	93–5348	1	Abrasive–Floor
16	93–5447	12	Nut–Clinch
17	93–5449	9	Nut–Clinch
18	93–3094	4	Plug–Cap
19	33115–060	4	Screw–HH
20	93–5308	4	Washer–ISO Mount
21	93–5307	4	Mount–ISO
22	33025–00	4	Nut–Lock
23	3272–5	2	Pin–Cotter
24	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description
24	3256–23	4	Washer–Flat (Europe)
25	93–5507	1	Abrasive–Platform
26	93–5349	1	Abrasive–Floor
27	3256–69	1	Washer–Flat
28	28–0570	1	Spring–Compression
29	32121–79	1	Pin–Roll
30	95–3033	1	Rod
31	92–5772	1	Decal–Footrest, RH
31	93–7834	1	Decal–Traction Pedal (Europe)
32	93–5255	1	Strip–Foam
33	33114–020	2	Screw–HH (Europe)
34	99–5789	1	Foam Strip

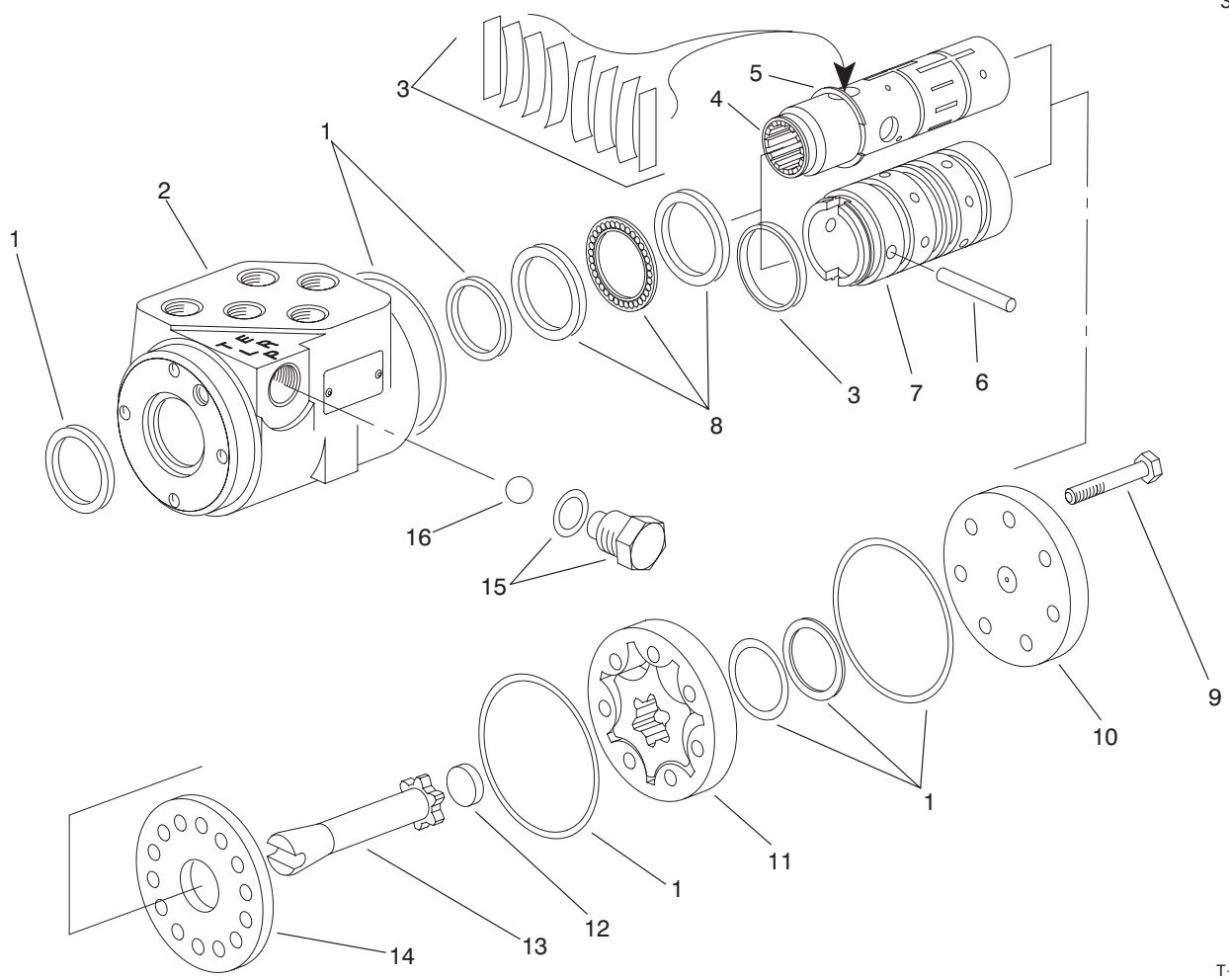


Sheet No.: 8
T–2325–4

Steering Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5633	1	Housing –Tower (Incl. Ref. #2 & 6)
2	67–1300	1	Decal–Tower
3	33103–016	16	Screw–HHF
4	33105–025	2	Screw–HHF
5	93–5988	2	Spacer
6	93–5447	12	Nut–Clinch
7	95–0814	1	Decal–Tower
8	93–5205–03	1	Column–Steering
9	256–132	2	Bushing–Flange
10	256–260	4	Washer
11	93–5312	1	Knob
12	95–5100	1	Cover–Tower (Incl. Ref. #6 & 7)
13	98–1471	1	Wheel–Steering
14	93–5590	1	Nut
15	3256–27	1	Washer–Flat
16	93–5429	1	Collar–Foam
17	93–5439	1	Seal–Steering
18	32151–29	2	Ring–Retaining
19	93–5428	1	Asm–Shaft, Steering
20	93–5446	1	Cap–Vinyl
21	93–5309	1	Rod–Brake, Parking
22	93–5985	1	Spring–Extension
23	3272–5	1	Pin–Cotter, Hair
24	93–5276–03	1	Pawl–Brake

Ref. No.	Part No.	Qty.	Description
25	3272–10	1	Pin–Cotter, Hair
26	93–5165	1	Steering Control Unit
27	283–5	1	Pin–Clevis
28	93–5989	1	Rod–Tilt
29	33005–00	2	Nut–HFH
30	88–3870	1	Cover
31	98–1459	1	Decal–Toro



T–2312–5

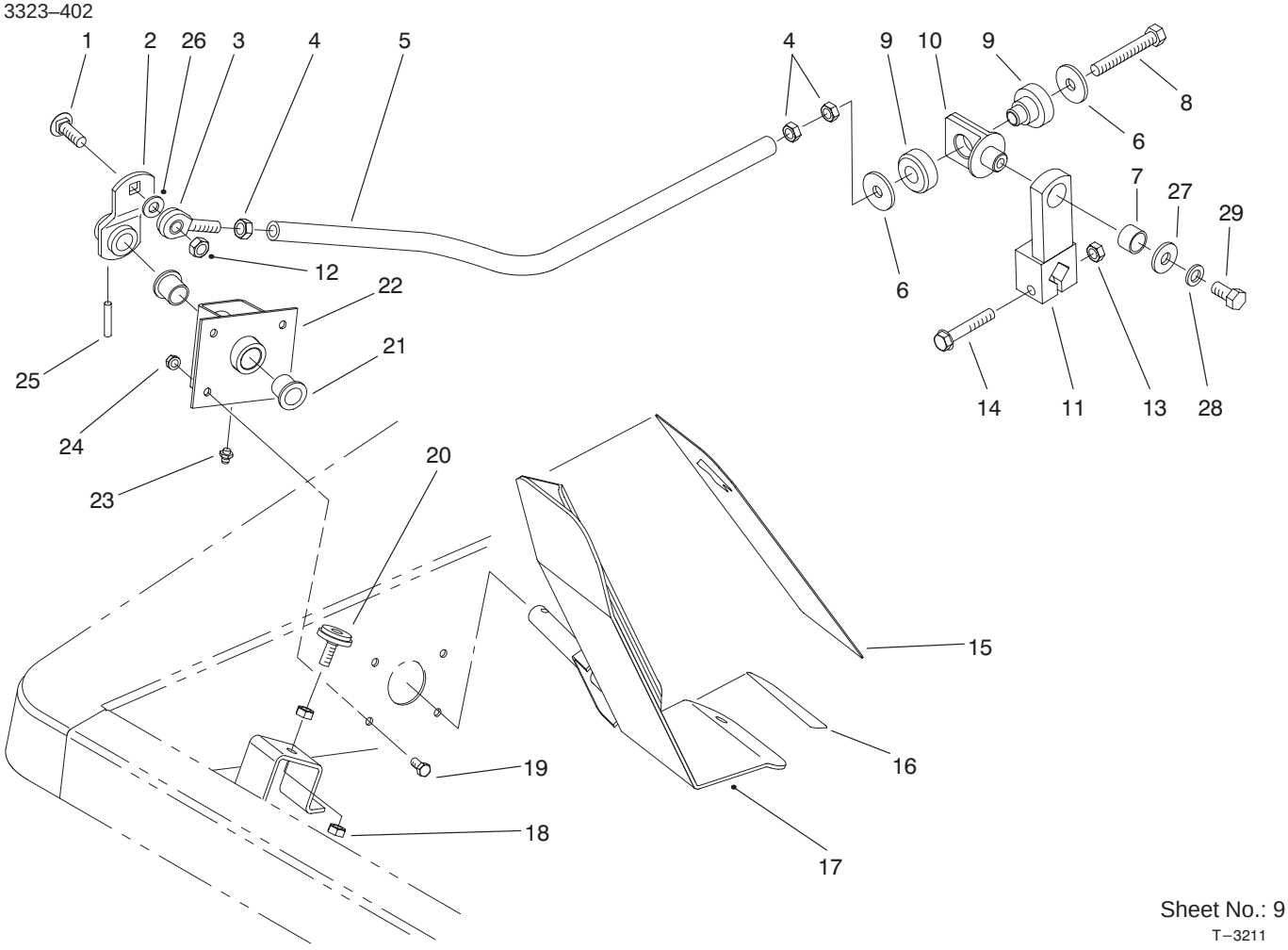
Steering Control Valve Assembly No. 93–5165

Ref. No.	Part No.	Qty.	Description
1	94–4099	1	Kit–Seal
†2		1	Housing
3	94–4095	1	Kit–Spring, Centering
†4		1	Spool
5	94–4098	1	Ring–Retaining
6	94–4094	1	Pin
†7		1	Sleeve
8	94–4096	1	Kit–Bearing
9	94–4088	7	Screw
10	94–4089	1	Cap–End
11	94–4090	1	Gerotor
12	94–4091	1	Spacer
13	94–4093	1	Drive
14	94–4092	1	Plate–Wear
15	94–4097	1	Asm–Plug
16	94–4100	1	Ball

Ref. No.	Part No.	Qty.	Description

† Not Serviced Separately

3323–402

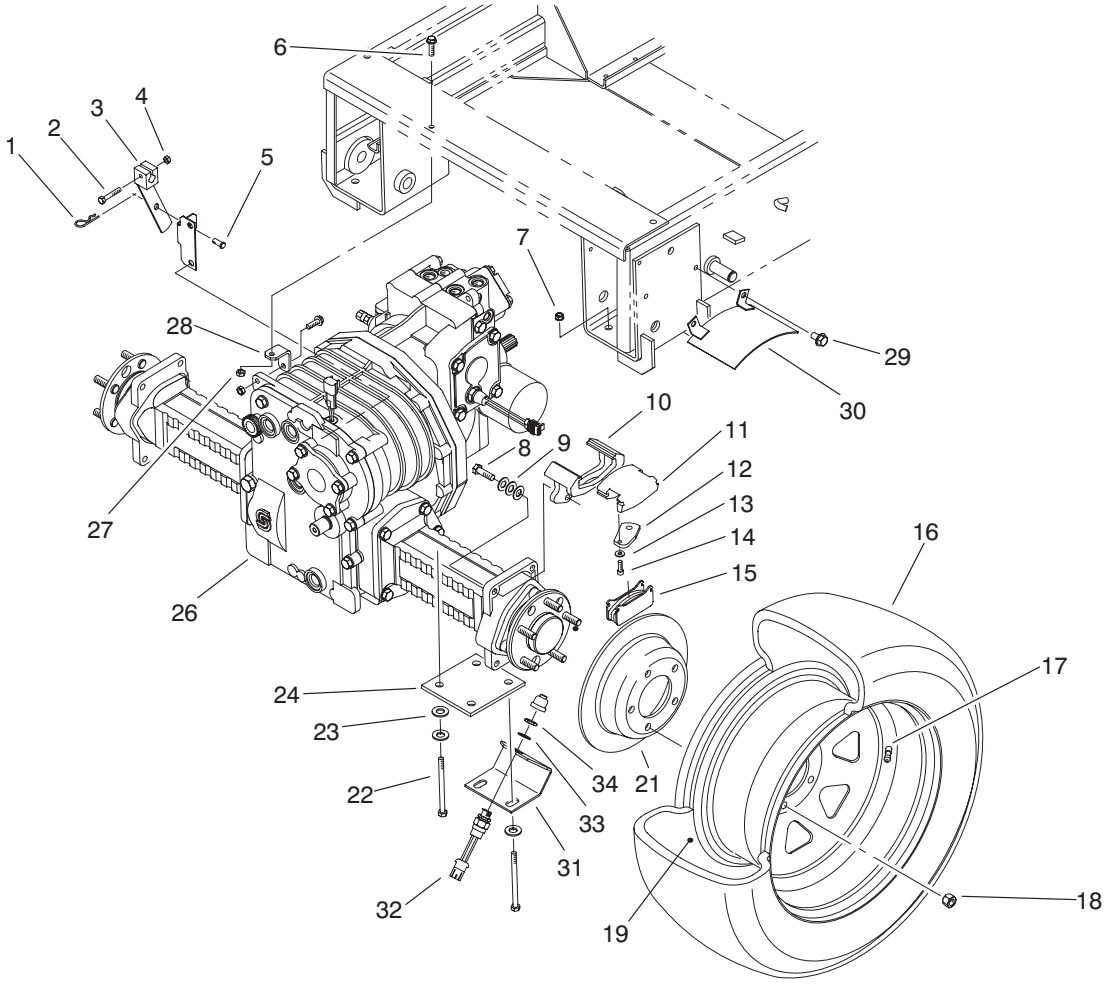


Sheet No.: 9
T–3211

Traction Pedal Assembly

Ref. No.	Part No.	Qty.	Description
1	3231–25	1	Bolt–Carriage
2	93–5137	1	Lever–Traction
3	2411–36	1	Bearing–Rod End
4	3220–3	3	Nut–Jam
5	100–5597–03	1	Tube–Control
6	63–8410	2	Washer–Flat
7	256–42	1	Bushing
8	3211–15	1	Screw–HH
9	95–2596	1	Mount–ISO
10	95–2595	1	Pivot
11	95–2598–03	1	Lever
12	3296–59	1	Nut–Lock
13	33024–00	1	Nut–Lock
14	33104–050	1	Screw–HHF
15	93–5347	1	Abrasive–Pedal
16	93–5368	1	Abrasive–Pedal
17	93–5133–01	1	Pedal–Traction
18	3217–6	2	Nut–Hex.
19	33113–016	4	Screw–HH
20	32141–36	1	Screw–Level
21	256–10	2	Bushing–Flange
22	93–5129–03	1	Bracket–Pedal
23	302–5	1	Fitting–Grease
24	33003–00	1	Nut–HF
25	32121–9	1	Pin–Roll
26	3256–24	1	Washer–Flat

Ref. No.	Part No.	Qty.	Description
27	80–6990	1	Washer
28	3253–21	1	Washer–Lock
29	3211–2	1	Screw–HH



Sheet No.: 10

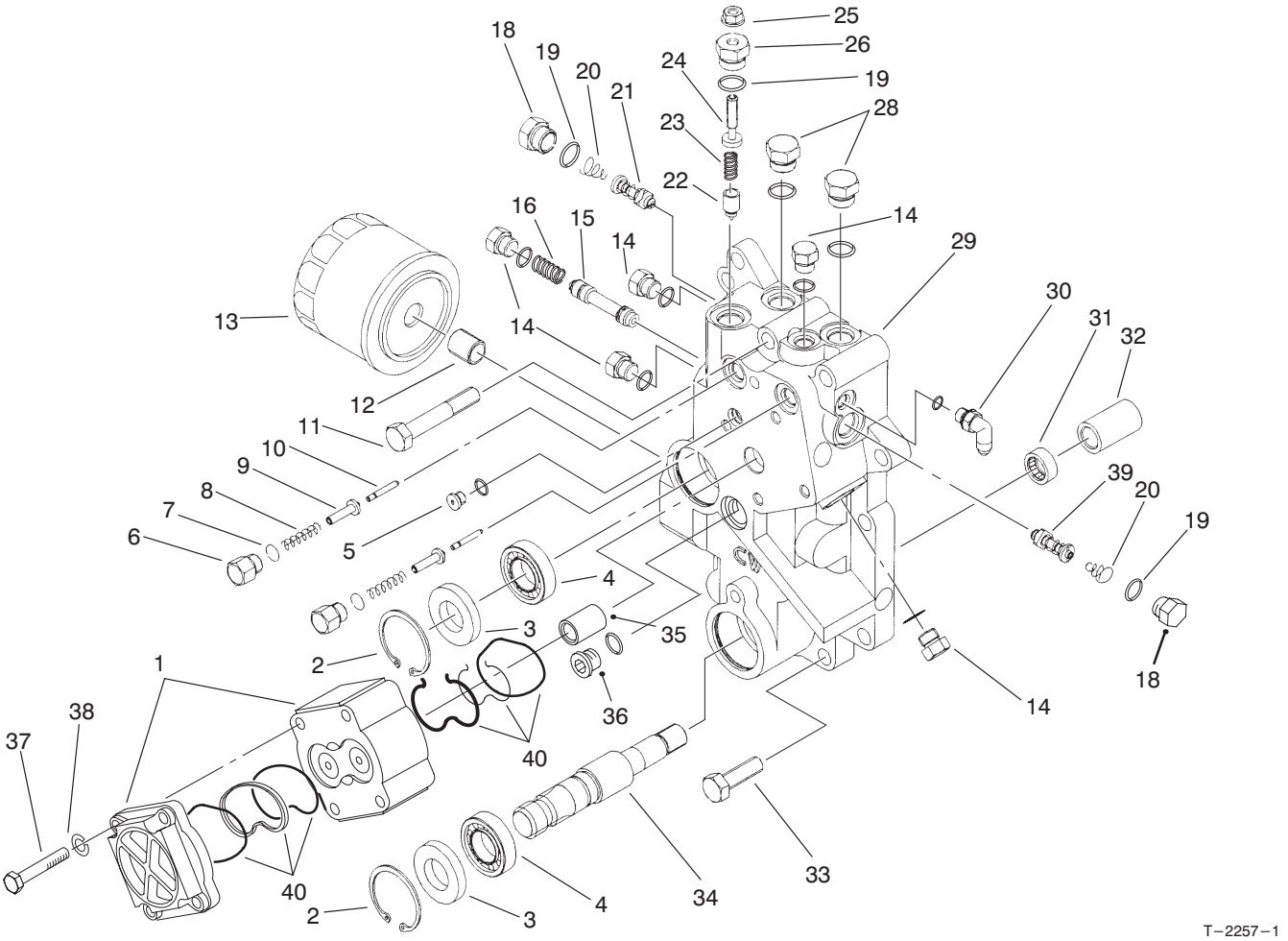
T–2327–4

Front Axle Assembly

Ref. No.	Part No.	Qty.	Description
1	3290–467	1	Pin–Cotter, Hair
2	33114–040	1	Screw–HH
3	93–5383–03	1	Lever
4	33024–00	1	Nut–Lock
5	283–62	1	Pin–Clevis
6	33104–025	2	Screw–HHF
7	33006–00	8	Nut–HF
8	323–44	4	Screw–HH
9	3290–461	12	Washer–Belleville
10	95–5697	2	Bracket–Mounting
11	95–2618	2	Housing
12	94–4107	2	Lever
13	94–4106	2	Washer
14	95–2616	2	Screw
15	95–5698	4	Pad
16	93–5431	2	Tire (30301TC, 30302TC)
16	95–2638	2	Tire (30301, 30302)
17	232–27	2	Valve Stem
18	93–5268	10	Nut–Lug
19	93–5548	2	Rim (30301TC, 30302TC)
19	98–2374	2	Rim (30301, 30302)
21	93–5958	2	Rotor–Brake
22	33116–110	8	Screw–HH
23	3256–26	14	Washer–Flat

Ref. No.	Part No.	Qty.	Description
24	93–5036–03	2	Plate–Axle
26	95–2630	1	Axle–2 Speed
27	33024–00	2	Nut–Lock
28	93–5306	1	Bracket–Transaxle
29	32144–14	4	Screw–HH
30	93–5977–03	2	Shield–Brake
31	93–4869–03	1	Bracket–Switch
32	94–3429	1	Switch
33	3254–5	1	Washer–Lock
34	3220–6	2	Nut–Jam

* Not Illustrated

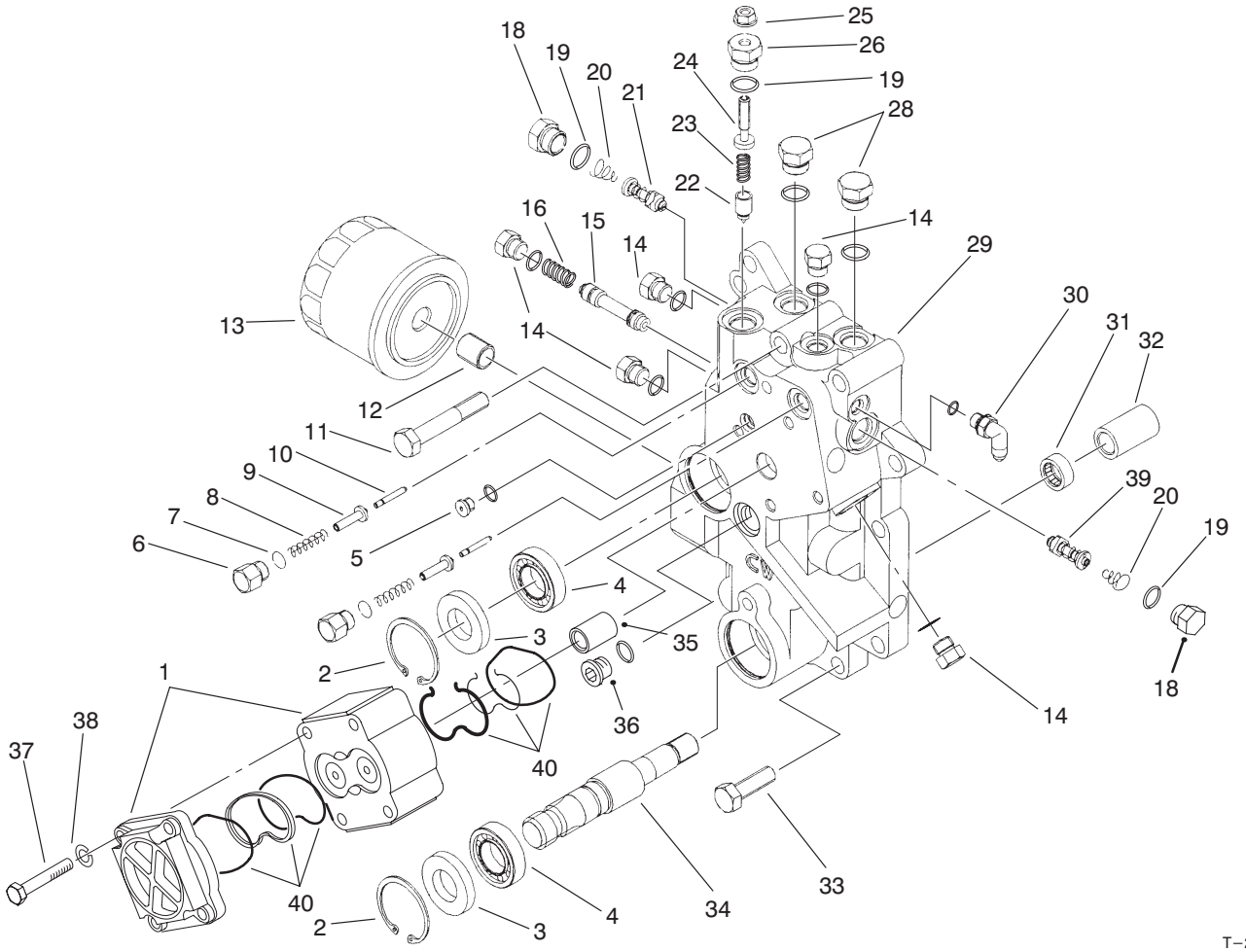


Front Axle Center Section Assembly

Ref. No.	Part No.	Qty.	Description
1	94–3968	1	Pump–Gear (Incl. Ref. #37, 38 & 40)
2	94–4029	2	Ring–Retaining
3	94–3925	2	Seal–Lip
4	94–3942	2	Bearing–Ball
5	75–0170	1	Asm–Plug
6	94–3986	2	Plug–Hex. Head
7	94–3987	2	O–Ring
†8		2	Spring
†9		2	Asm–Sleeve
1†0		2	Piston
11	94–3999	2	Screw
12	25–2660	1	Union–Filter
13	94–3951	1	Filter
14	69–3940	5	Asm–Plug
†15		1	Spool
†16		1	Spring–Helical
18	75–0190	2	Plug
19	75–0240	3	O–Ring
20	75–0140	2	Spring–Conical
21	94–3979	2	Valve (6000 psi)
†22		1	Cone–Valve, Relief
†23		1	Spring–Helical
†24		1	Screw–Adjusting
25	94–4017	1	Nut

Ref. No.	Part No.	Qty.	Description
26	94–3990	1	Plug–Relief, Implement
28	28–3440	2	Asm–Plug
†29		1	Center Section
30	94–4075	1	Elbow
31	94–4021	1	Bearing
32	94–4023	1	Coupling–4 Wheel Drive
33	94–4020	8	Screw
34	94–4022	1	Shaft–4 Wheel Drive
35	94–3922	1	Coupling–Pump, Gear
36	94–9172	1	Asm–Plug
37	94–9182	4	Screw
38	94–9183	4	Washer
39	84–0540	1	Valve (5000 psi)
40	94–9184	1	Kit–Seal, Gear Pump
*	95–7033	1	Asm–Center Section (Incl. Ref. #5–10, 12, 14–29 & 31)
*	94–9168	1	Asm–Valve, Implement Relief (Incl. Ref. #19 & 22–26)
*	94–9169	1	Kit–SCR Valve (6000 psi (Incl. Ref. #18–21)

* Not Illustrated
† Not Serviced Separately



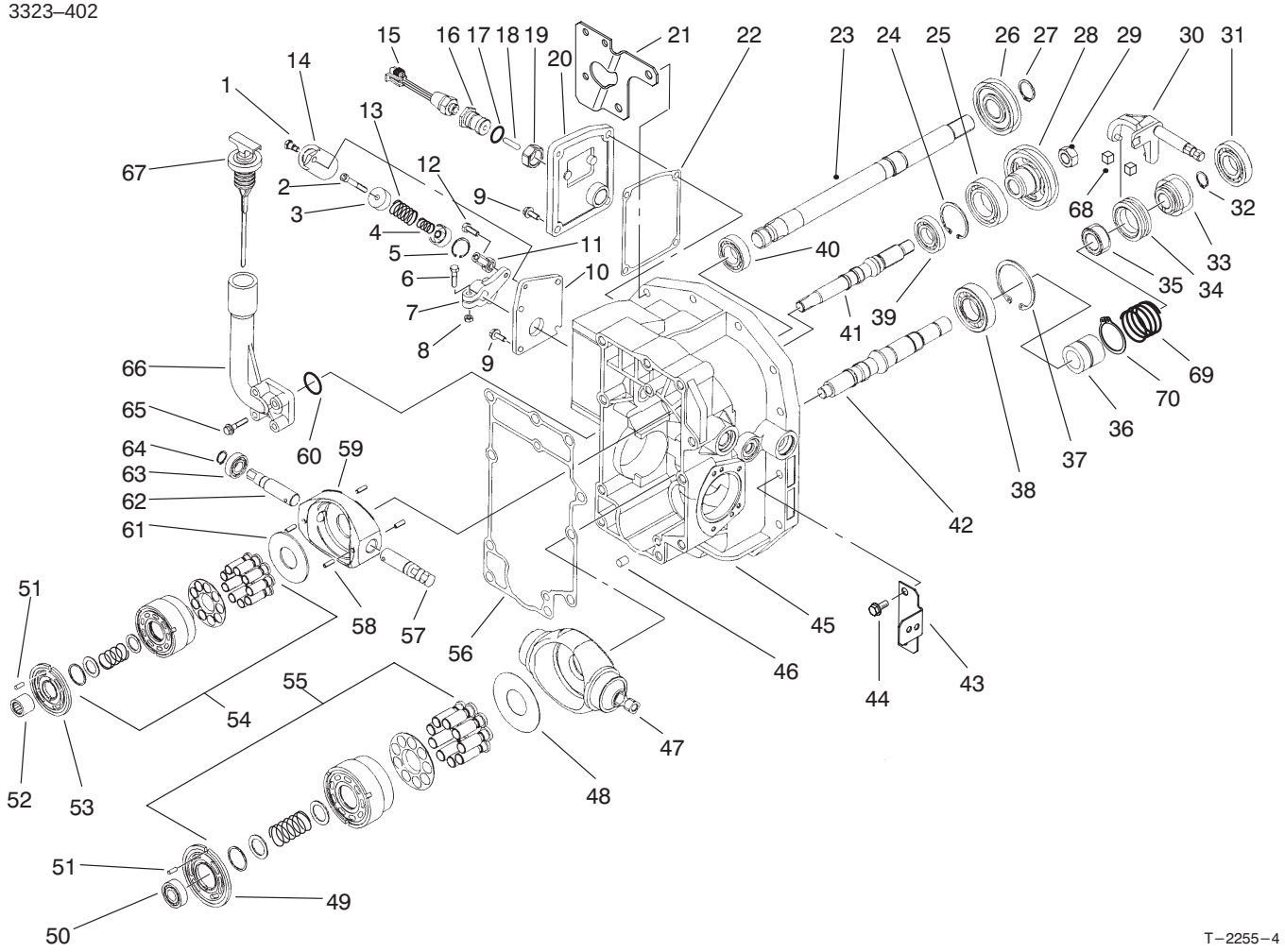
T–2257–1

Front Axle Center Section Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
*	94–9170	1	Kit–Charge Press. Priority Valve (Incl. Ref. #14–16)
*	94–9171	1	Kit–Valve, Easy Ride (Incl. Ref. #6–10)

Ref. No.	Part No.	Qty.	Description

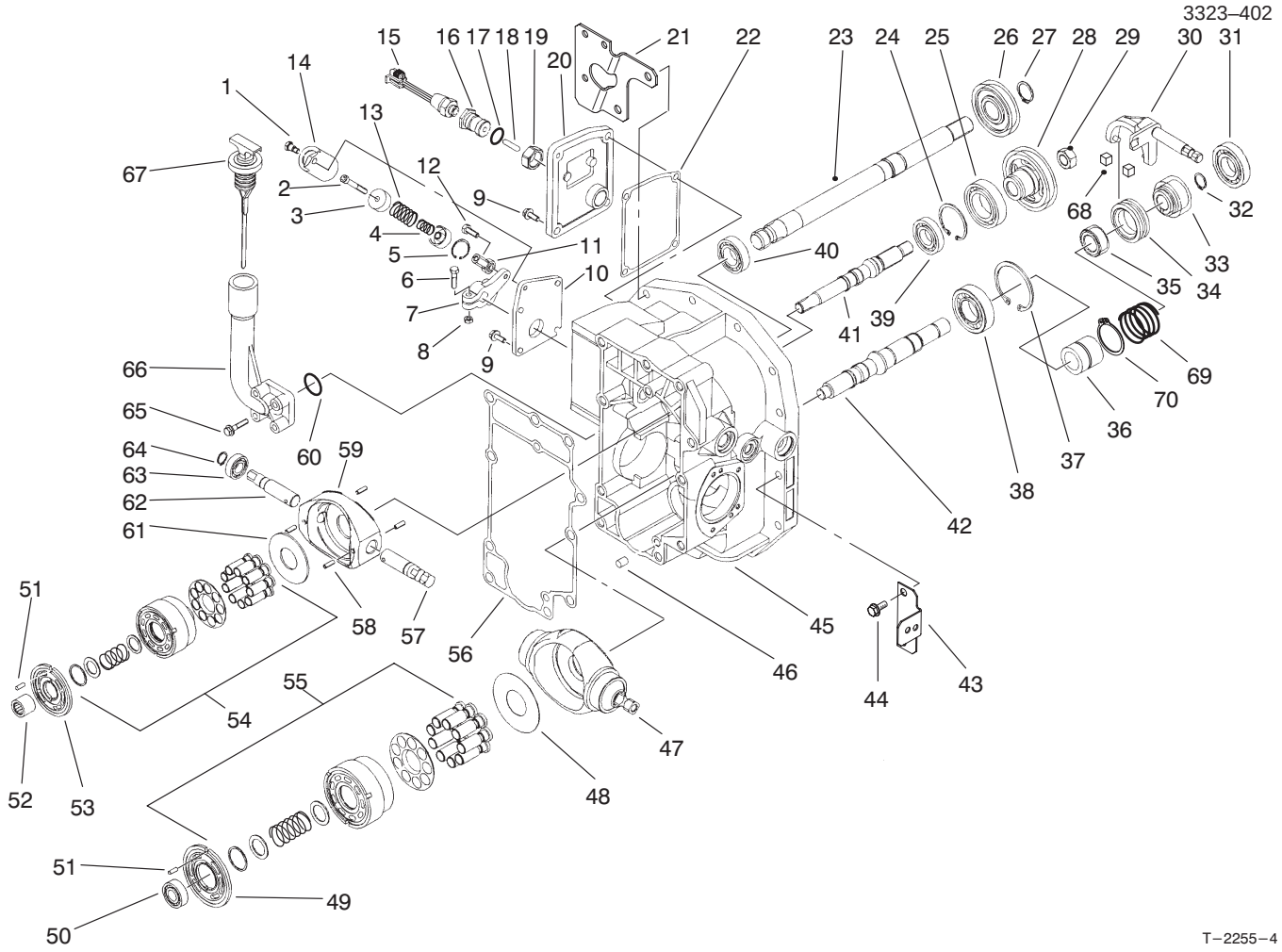
* Not Illustrated



Hydraulic Housing Assembly

Ref. No.	Part No.	Qty.	Description
1	94–3928	1	Screw–HH, Shoulder
†2		1	Screw–Soc. Hd.
†3		2	Seat–Spring
†4		1	Spring–Compression
†5		1	Ring–Retaining
6	94–3940	1	Screw–HH
†7		1	Handle–Return, Neutral
8	94–3936	1	Nut–Lock
9	94–4002	8	Screw–HHF
†10		1	Plate–Return, Neutral
†11		1	Rod End–Female
12	94–3927	1	Screw–HH
†13		1	Spring–Compression
†14		1	Housing–Return, Neutral
15	95–7034	2	Switch
16	94–4045	1	Adjuster–Threaded
17	28–3570	1	O–Ring
18	94–4046	1	Pin
19	94–4044	1	Nut–Hex.
20	94–3943	1	Cover–Return, Neutral
21	94–9282	1	Bracket–Counter Balance
22	94–3944	1	Gasket–Return, Neutral
23	94–3901	1	Shaft–Input
24	94–4029	1	Ring–Retaining
25	94–3971	1	Bearing–Ball
26	94–3903	1	Pinion–Drive, Pump
27	94–3994	1	Ring–Retaining
28	94–3905	1	Gear–Drive, Pump
29	94–3953	1	Nut–Lock
30	95–7875	1	Yoke–2 Speed
31	251–8	1	Bearing
32	94–3963	1	Ring–Retaining
33	94–3919	1	Pinion–Drive, Final
†34		1	Coupling–Gear, Change
†35		1	Coupling–2 Speed
36	95–2728	1	Spacer–Drive, Final
37	94–3997	3	Ring–Retaining
38	84–0310	1	Bearing
39	94–3960	1	Bearing–Ball
40	94–3942	1	Bearing–Ball
41	94–3904	1	Shaft–Pump
42	94–3906	1	Shaft–Motor
43	93–5381	1	Bracket
44	94–4004	23	Screw–HHF

† Not Serviced Separately

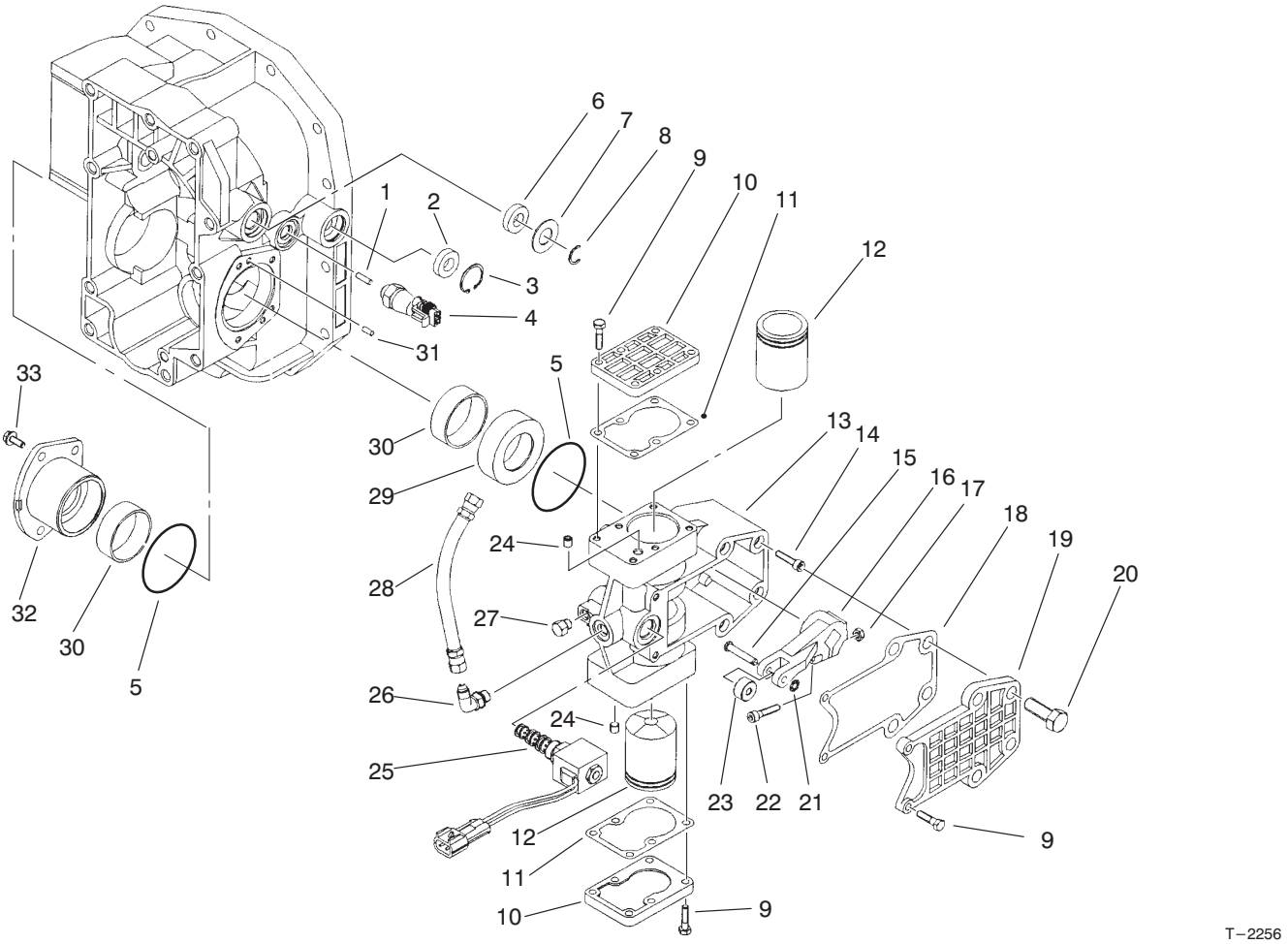


Hydraulic Housing Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
45	95–7038	1	Housing–Variable Motor
46	94–3975	2	Pin
47	94–4058	1	Swashplate–Variable
48	75–0400	1	Plate–Thrust
49	94–3921	1	Plate–Valve, Motor
50	94–3956	1	Bearing–Ball
51	94–3974	2	Pin
52	94–3957	1	Bearing–Needle
53	94–3973	1	Plate–Valve, Pump
54	48–1800	1	Kit–Block, Cylinder
55	75–0470	1	Kit–Block, Cylinder
56	94–3992	1	Gasket–Center Section
57	94–3946	1	Shaft–Trunnion
58	32121–91	4	Pin
59	94–3967	1	Swashplate–Pump, Variable
60	94–4051	1	O–Ring
61	94–3978	1	Plate–Thrust
62	94–3934	1	Shaft–Trunnion
63	94–4040	1	Bearing–Ball
64	94–3932	1	Ring–Retaining
65	94–4050	4	Screw–HHF
66	94–4048	1	Housing–Dipstick
67	94–4049	1	Dipstick
68	95–7036	2	Guide–Slot

Ref. No.	Part No.	Qty.	Description
69	95–2730	1	Spring
70	95–2729	1	Ring–Retaining
*	93–5969	1	Asm–Return, Neutral (Incl. Ref. #1–14)
*	93–5971	1	Kit–Seal, Overhaul
*	94–4149	1	Asm–Coupling, Gear Change (Incl. Ref. #34 & 35)

* Not Illustrated

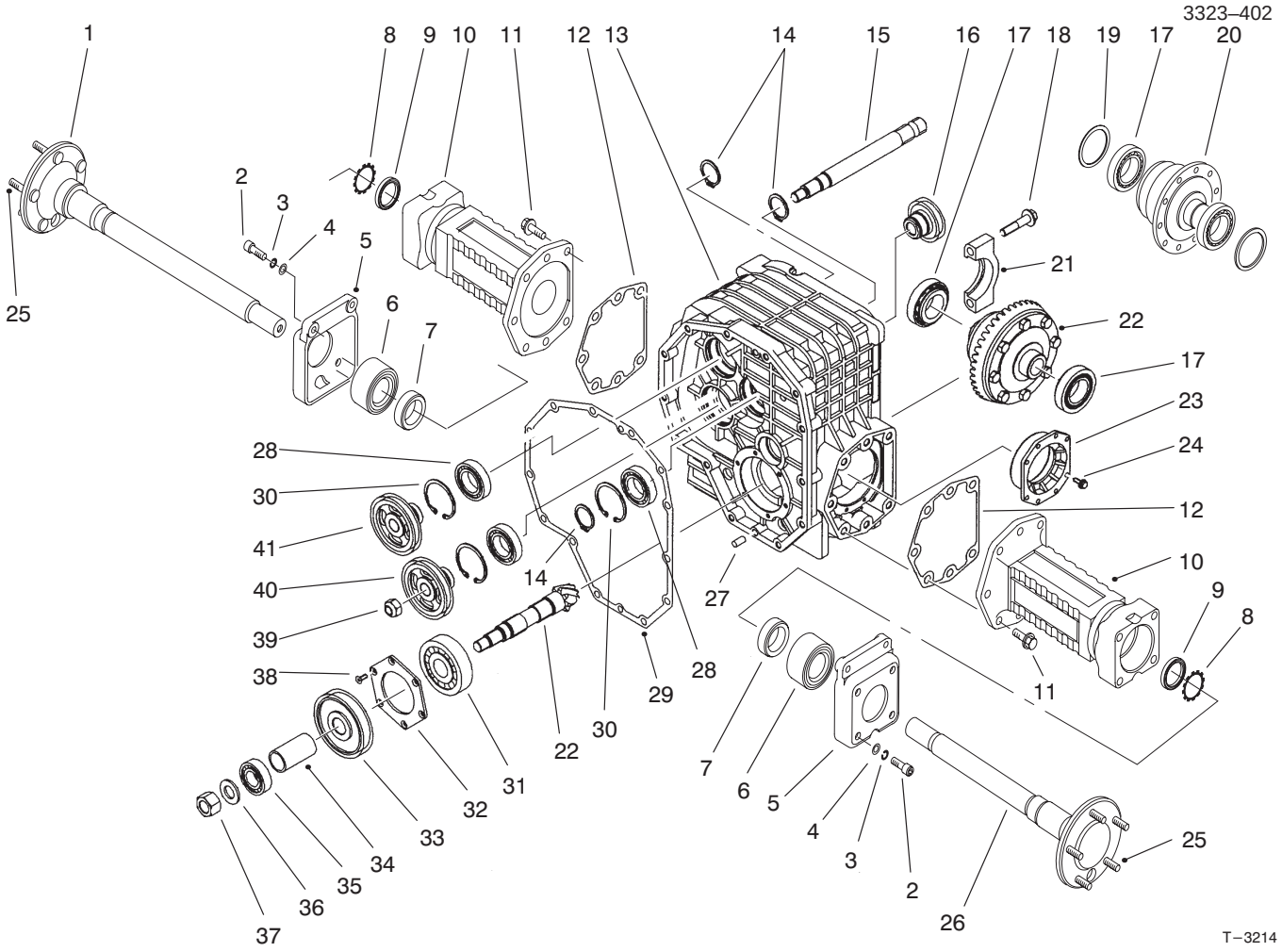


Hydraulic Housing Assembly–Control

Ref. No.	Part No.	Qty.	Description
1	94–4028	1	Roller–Needle
2	94–3939	1	Seal–Lip
3	94–3962	1	Ring–Retaining
4	95–7034	2	Switch
5	94–4059	2	O–Ring
6	25–3210	1	Seal
7	25–2510	1	Washer
8	94–3945	1	Ring–Retaining
9	95–7037	14	Screw–HH
10	94–4063	2	Cover–Servo
11	95–7040	2	Gasket–Cover
12	94–4070	2	Piston–Control
13		1	Housing–Control
14	94–4009	4	Screw
†15		1	Pin–Headed
†16		1	Arm–Control
17	94–3936	1	Nut–Lock
18	95–7039	1	Gasket–Housing
19	94–4065	1	Cover–Control
20	94–4007	4	Screw–HHF
†21		1	Washer–Retention, Shaft
22	94–4069	1	Screw
†23		1	Roller–Arm, Control
†24		2	Plug–Orifice
25	94–4072	1	Valve–Solenoid

Ref. No.	Part No.	Qty.	Description
26	94–4075	2	Elbow
27	94–4074	1	Plug
28	94–4076	1	Hose
†29		1	Carrier–Bearing, Trunnion
†30		2	Bearing–Journal
31	69–3450	2	Pin
†32		1	Carrier–Trunnion Bearing
33	94–4026	4	Screw–HHF
*	93–5968	1	Asm–Carrier, Trunnion Brg. (Incl. Ref. #30 & 32)
*	93–5967	1	Asm–Carrier, Trunnion Brg. MV (Incl. Ref. #29 & 30)
*	95–7041	1	Asm–Control, Housing (Incl. Ref. #13, 24 & 27)
*	94–9174	1	Asm–Arm, Control (Incl. Ref. #15–17 & 21–23)

* Not Illustrated
† Not Serviced Separately

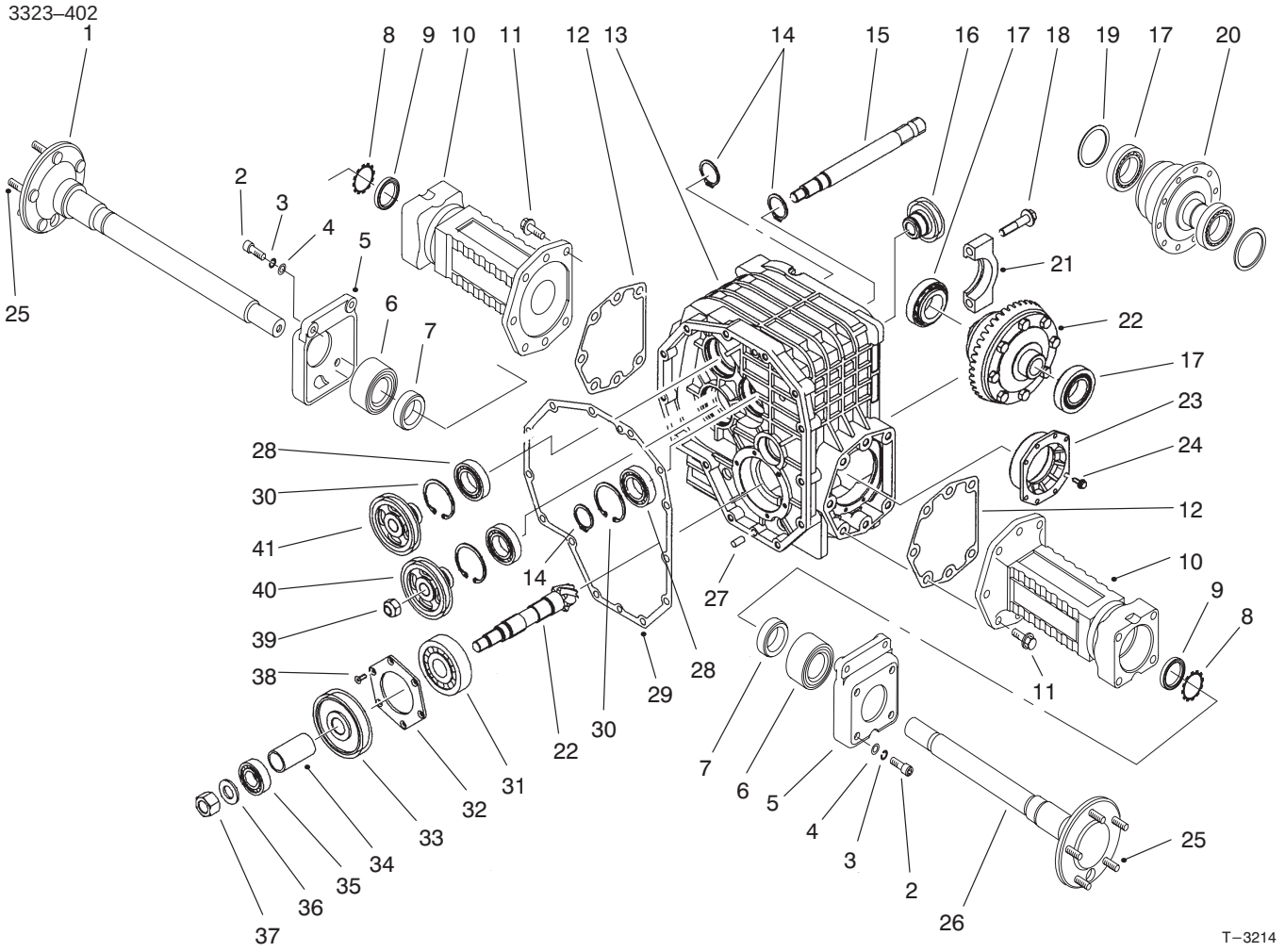


Front Axle Gear Housing Assembly

Ref. No.	Part No.	Qty.	Description
1	94–4031	1	Shaft–Axle, Left
2	94–4036	8	Screw
3	3253–7	8	Washer–Lock
4	3256–6	8	Washer–Flat
5	95–2632	2	Bracket–Brake
6	94–4030	2	Bearing
7	94–4144	2	Collar–Bearing
8	94–4142	2	Ring–Retaining
9	94–4032	2	Seal–Lip
10	95–2631	2	Housing–Axle
11	94–4007	14	Screw–HHF
12	94–4015	2	Gasket–Housing
†13		1	Housing–Gear
14	69–3170	3	Ring–Retaining
15	94–3913	1	Shaft–Front PTO
16	94–4052	1	Pinion–PTO Clutch
17	93–5966	2	Kit–Bearing
18	94–4003	2	Screw–HHF
19		2	Washer
20	99–5781	1	Asm–Differential
†21		1	Clamp–Differential
22	99–5780	1	Asm–Differential Ring & Pinion
†23		1	Carrier–Bearing
24	94–4002	6	Screw–HHF

Ref. No.	Part No.	Qty.	Description
25	94–4143	10	Stud–Wheel
26	94–4035	1	Shaft–Axle, Right
27	94–3975	4	Pin
28	94–3971	3	Bearing–Ball
29	94–3959	1	Gasket–Housing
30	94–3997	3	Ring–Retaining
31	94–3961	1	Bearing–Ball
†32		1	Retainer–Bearing
33	94–3912	1	Gear–Final Drive
34	94–3958	1	Spacer–Pinion
35	75–0520	1	Bearing
36	99–5784	1	Washer
37	99–5783	1	Nut–Lock
38	98–1812	6	Screw
39	94–3953	1	Nut–Lock
40	94–3914	1	Gear–Drive, PTO
41	94–3909	1	Pinion–Drive, PTO
*	95–2634	1	Asm–Axle, LH (Incl. Ref. #1–12 & 25)
*	95–2633	1	Asm–Axle, RH (Incl. Ref. #2–12, 25 & 26)

* Not Illustrated
† Not Serviced Separately

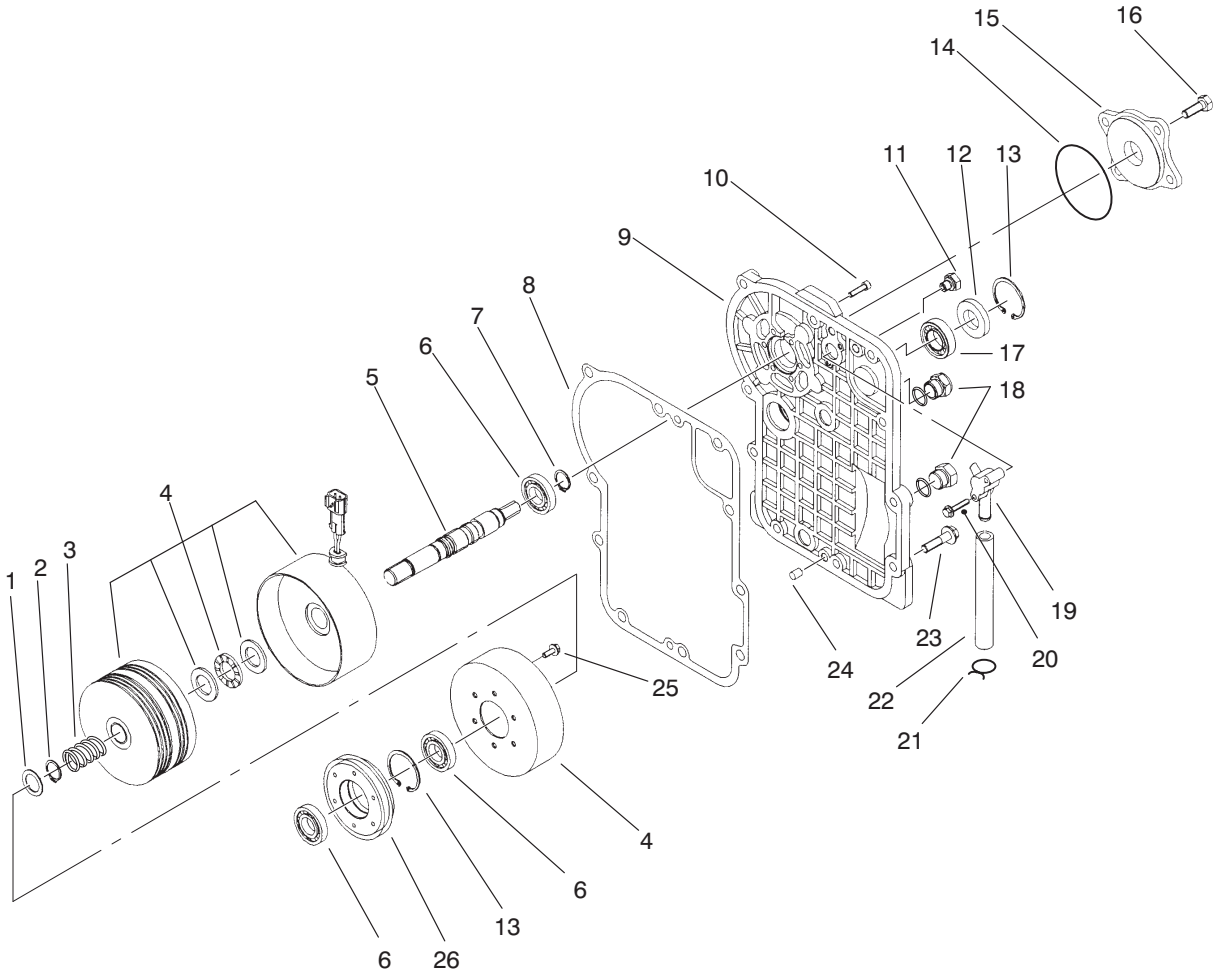


Front Axle Gear Housing Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
*	99–5777	1	Asm–Housing, Gear (Incl. Ref. #13, 14, 17, 18, 21–24, 28–32 & 38)
*	94–9178	1	Kit–Bearing, Pinion Head (Incl. Ref. #31, 32 & 38)
*	99–5782	1	Asm–Ring & Pinion

Ref. No.	Part No.	Qty.	Description

* Not Illustrated



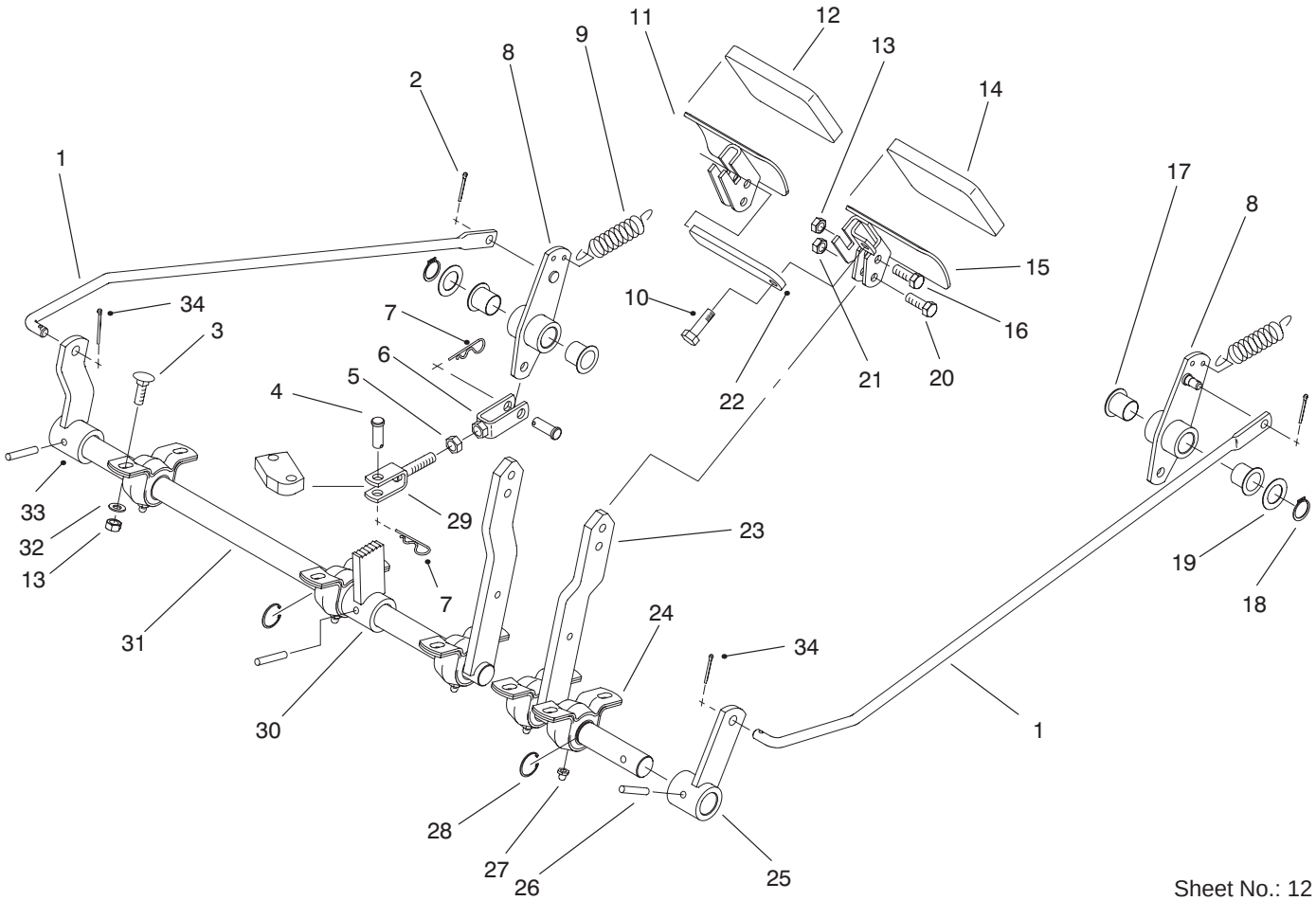
T–2259–1

Front Axle Cover Assembly

Ref. No.	Part No.	Qty.	Description
1	94–3995	1	Washer
2	94–4006	1	Ring–Retaining
3	94–4005	1	Spring–Compression
†4		1	Clutch–PTO
5	94–3910	1	Shaft–Clutch
6	94–3960	3	Bearing–Ball
7	94–3996	1	Ring–Retaining
8	94–4001	1	Gasket–Cover, Front
9	94–3991	1	Cover–Front
10	94–4009	6	Screw
11	94–3998	1	Vent–Breather
12	94–3925	1	Seal–Lip
13	94–4029	2	Ring–Retaining
14	94–4011	1	O–Ring
15	94–4010	1	Cover–Gerotor
16	94–4008	4	Screw
17	94–3942	1	Bearing–Ball
18	67–8030	2	Plug
†19		1	Tube–Lubrication
20	95–7037	2	Screw–HHF
†21		2	Clamp
†22		1	Hose–Lubricating
23	94–4004	10	Screw–HHF
24	94–3975	2	Pin
25	94–4026	6	Screw–HHF
26	94–4053	1	Gear–Clutch, PTO

Ref. No.	Part No.	Qty.	Description
*	94–9179	1	Asm–Clutch (Incl. Ref. #1–7, 13, 25 & 26)
*	94–9180	1	Asm–Cover, Front (Incl. Ref. #9, 11, 18, & 19–22)
*	94–9181	1	Asm–Nozzle, Lubricating (Incl. Ref. #19, 21 & 22)

* Not Illustrated
† Not Serviced Separately

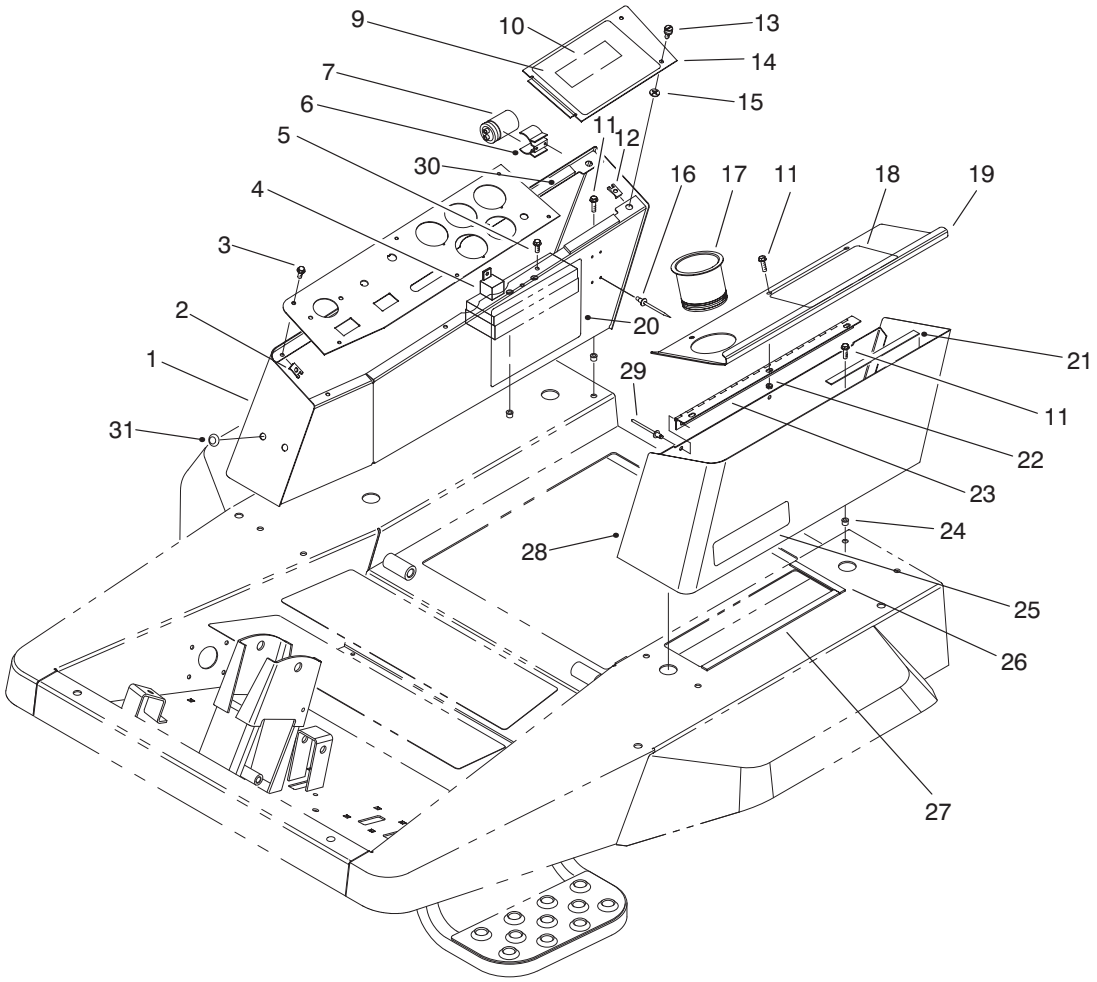


Sheet No.: 12
T–2329–1

Brake Pedal Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5333	2	Rod–Control
2	3272–7	2	Pin–Cotter
3	33124–020	10	Screw–Carriage
4	283–2	4	Pin–Clevis
5	3220–3	2	Nut–Jam
6	93–5552	2	Clevis
7	3290–467	4	Pin–Cotter, Hair
8	93–5326	2	Bellcrank
9	93–5262	2	Spring–Extension
10	33114–020	1	Screw–HH
11	93–5456–03	1	Pedal–RH
12	27–7580	1	Pad–Right Turn
12	93–8742	1	Footpad–Brake (Europe)
13	33024–00	14	Nut–Lock
14	27–7570	1	Pad–Left Turn
14	93–8742	1	Footpad–Brake (Europe)
15	93–5455–03	1	Pedal–LH
16	33114–025	3	Screw–HH
17	93–5313	4	Bushing–Nylon
18	32120–72	2	Ring–Retaining
19	3–6498	2	Washer–Thrust
20	322–4	1	Screw–HH
21	3218–2	1	Nut–Hex.
22	93–5568	1	Arm–Lock

Ref. No.	Part No.	Qty.	Description
23	93–5280–03	1	Arm–Brake, LH
24	93–4849	5	Bearing–Pillow Block
25	93–5473–03	1	Lever–Brake, LH
26	32121–15	3	Pin–Roll
27	302–5	5	Fitting–Grease
28	32151–83	3	Ring–Retaining
29	93–5551	2	Clevis
30	93–5475–03	1	Latch–Brake
31	93–5284–03	1	Arm–Brake, RH
32	33094–00	10	Washer–Flat
33	93–5474–03	1	Lever–Brake, RH
34	3272–10	2	Pin–Cotter



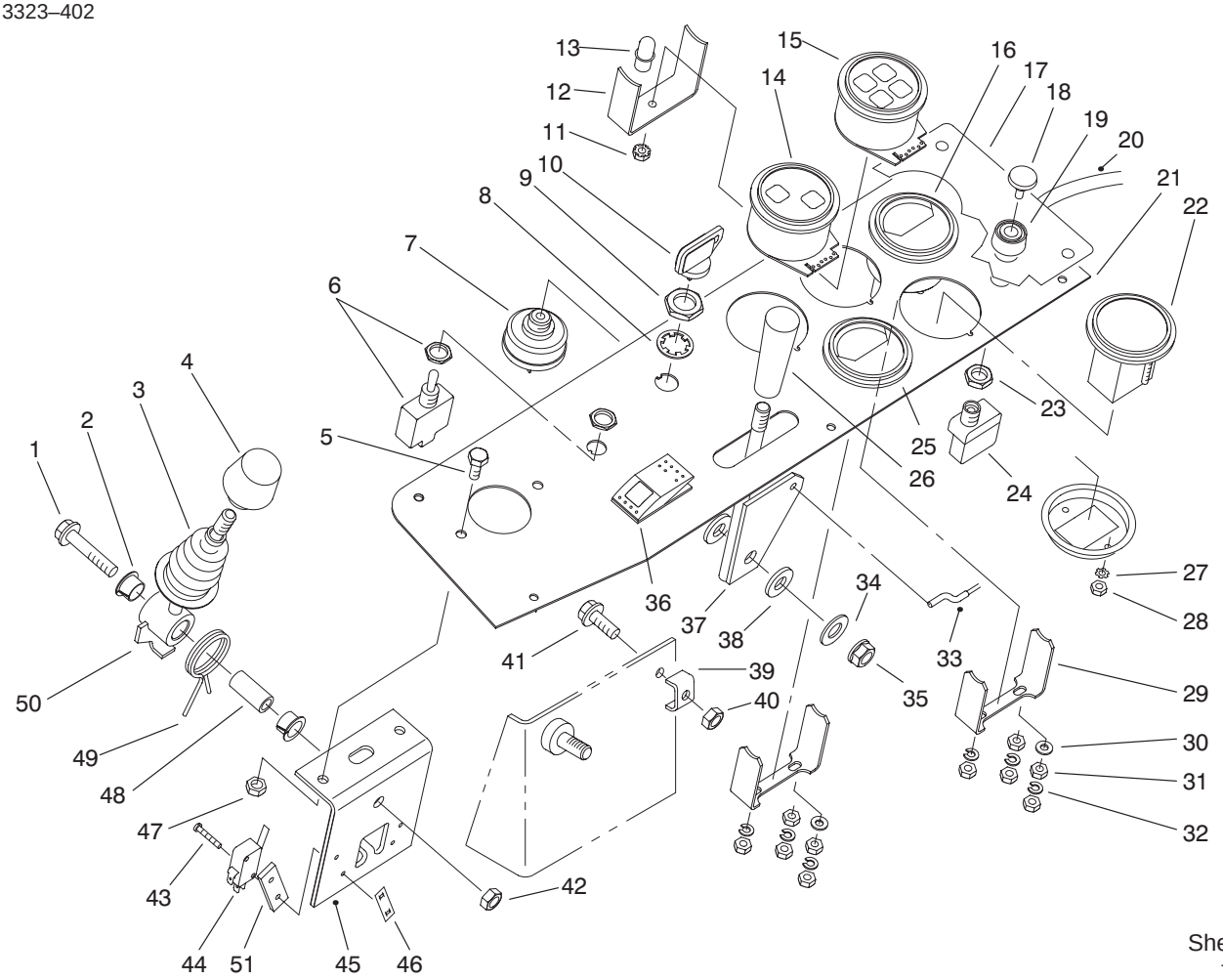
Sheet No.: 13
T–2330–3

Control Console Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5369–03	1	Console
2	3290–191	6	Nut–Speed
3	3250–14	6	Screw
4	116397	7	Relay
5	93–5949	2	Screw–HHF
6	74–2310	2	Clamp–Plastic
7	37–2690	2	Capacitor
9	93–5930	1	Decal–Operating Instruct.
9	94–6323	1	Decal–Operating Instructions (Europe)
10	93–5932	1	Decal–Fuses
10	93–5624	1	Decal–Fuses (Europe)
11	33103–016	12	Screw–HHF
12	93–5558	2	Nut–Clip On
13	93–5556	2	Screw–Knurled
14	93–5527–03	1	Panel–Access
15	93–5557	2	Retainer–Nylon
16	117433	2	Rivet–Pop
17	94–1410	1	Holder–Beverage Can
18	93–5621	1	Decal–Warning (Model 30301)
18	93–5620	1	Decal–Warning (Model 30302)
19	93–5403–03	1	Cover–Console
20	93–5934	1	Decal–Service

Ref. No.	Part No.	Qty.	Description
21	66–3050	2	Strip–Magnetic
22	33003–00	3	Nut–HF
23	93–5554	1	Hinge–Cover
24	93–5447	8	Nut–Clinch
25	67–1710	1	Decal–Caution
25	93–7252	1	Decal–CE Mark (Europe)
26	93–5413	2	Strip–Foam
27	93–5414	2	Strip–Foam
28	93–5399–03	1	Console–LH
29	93–8744	3	Rivet–Pop
30	93–5637	2	Strip–Foam
31	93–5992	2	Plug–1/2”
*	218–574	1	Fuse–7.5A
*	218–578	1	Fuse–10A
*	218–594	2	Fuse–20A
*	94–4109	1	Fuse–80A
*	92–3188	2	Board–Diode

* Not Illustrated

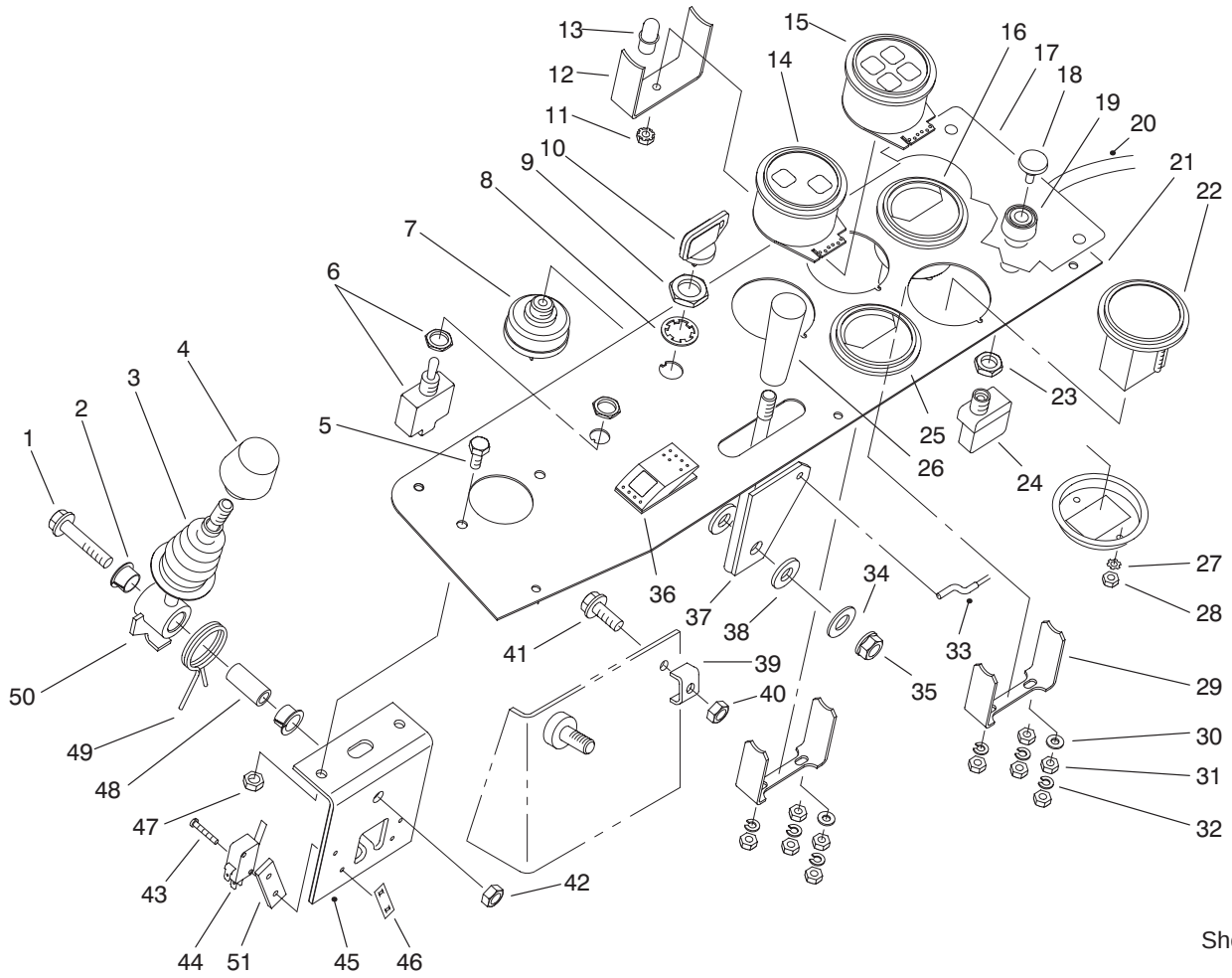


Sheet No.: 14
T–2331–2

Operator's Control Console Assembly

Ref. No.	Part No.	Qty.	Description
1	33104–040	1	Screw–HHF
2	93–5547	2	Bushing–Nylon
3	93–5961	1	Boot
4	233–37	1	Knob
5	33103–016	2	Screw–HHF
6	93–5270	1	Switch–Toggle
7	27–2360	1	Switch–Ignition (Incl. Ref. #8–9)
8	218–447	1	Washer–Lock
9	218–446	1	Nut–Hex.
10	62–7770	1	Key–Ignition
11		1	Nut–Keps
12		1	Clamp
13		4	Bulb–Light
14	93–5481	1	Cluster–Warning Light
15	93–5478	1	Cluster–Warning Light
16	76–9060	1	Gauge–Temperature
17	93–5425	1	Decal–Control
18	43–6280	1	Button–Push
19	43–6420	1	Bezel–Switch
20	95–2649	1	Wire Harness
21	93–5376–03	1	Plate–Control
22	66–2950	1	Gauge–Hourmeter
23	218–498	1	Nut–Hex.
24	72–9760	1	Switch–Override
25	66–2940	1	Gauge–Fuel

Ref. No.	Part No.	Qty.	Description
26	233–39	1	Knob–Lever
27	3255–20	2	Washer–Lock
28	3217–25	2	Nut–Hex.
29		2	Clamp
30	3256–14	4	Washer–Flat
31	3219–14	12	Nut–Hex.
32	3253–2	10	Washer–Lock
33	93–5350	1	Cable–Throttle
34	3256–24	1	Washer–Flat
35	95–1579	1	Nut–Lock
36	93–5476	1	Switch
37	93–5373	1	Lever–Throttle
38	66–2920	2	Washer–Nylon
39	29–9550	1	Clamp
40	33003–00	1	Nut–HHF
41	33103–016	1	Screw–HHF
42	33024–00	1	Nut–Lock
43	3290–329	4	Screw–PH
44	111332	2	Switch–Interlock
45	93–5991–03	1	Bracket
46	3290–354	2	Nut–Speed
47	33023–00	2	Nut–Lock
48	93–5512	1	Spacer
49	93–5509	1	Spring–Torsion
50	93–5515–03	1	Lever



Sheet No.: 14
T–2331–2

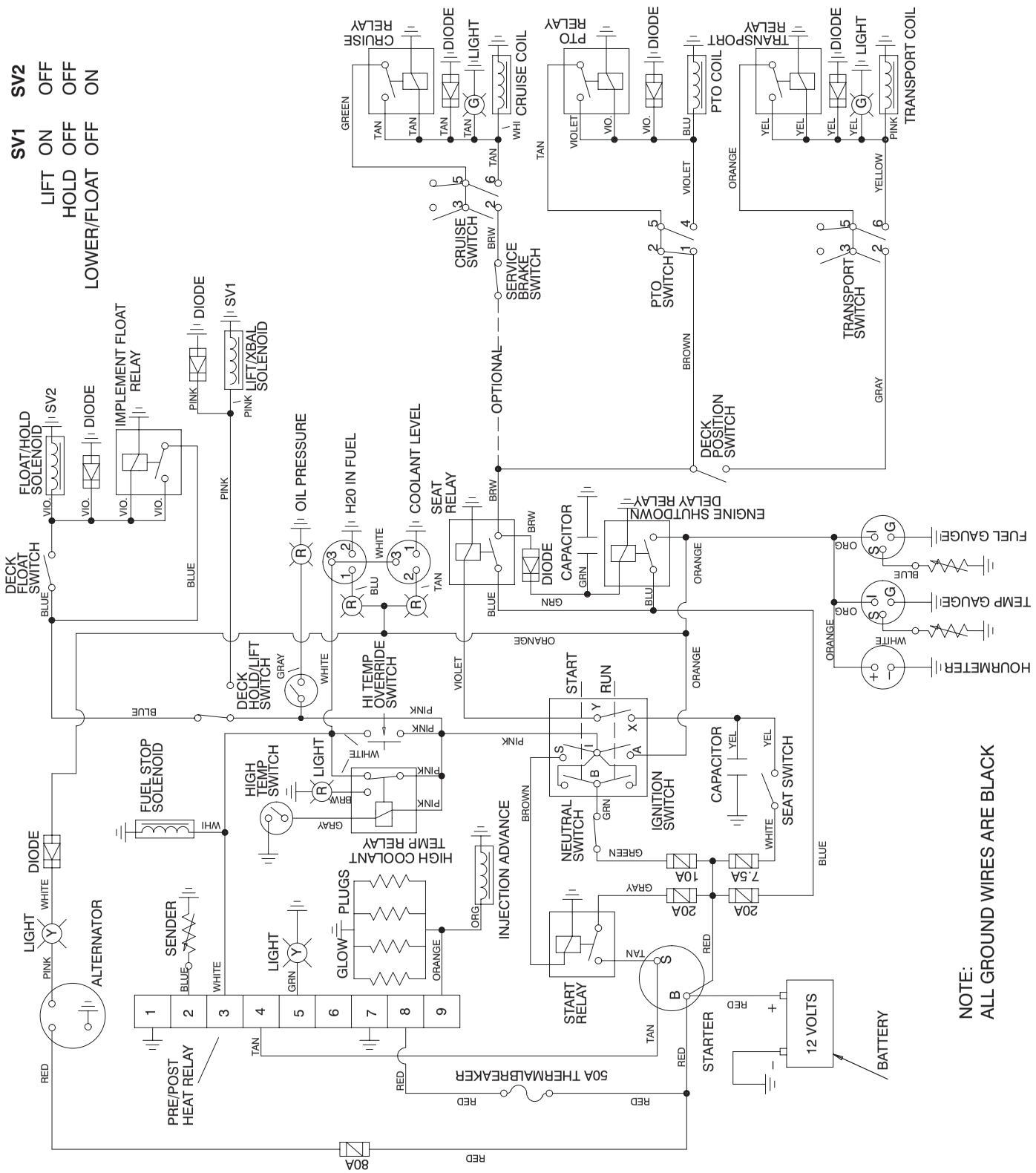
Operator’s Control Console Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
51	61–2990	2	Plate–Backup
*	95–2648	1	Wire Harness

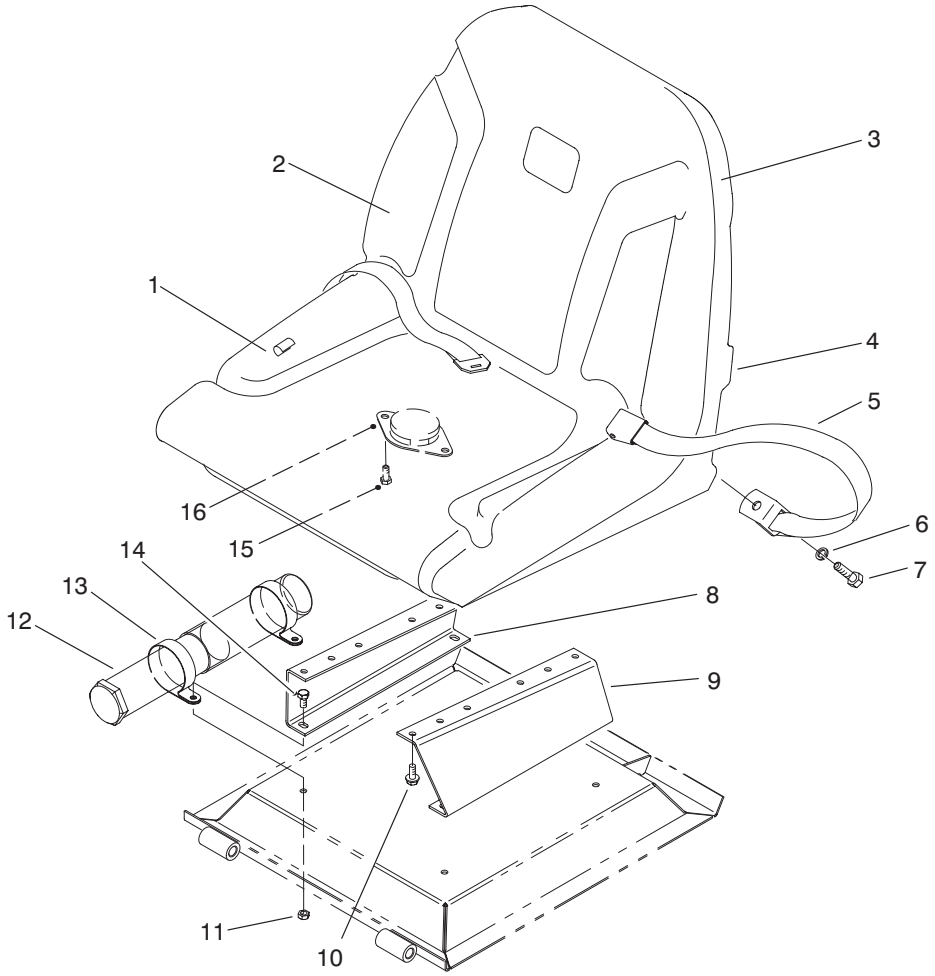
Ref. No.	Part No.	Qty.	Description
*	94–9967	1	Breaker–Circuit, 50A

* Not Illustrated

Electrical Schematic



T–2262–7



Sheet No.: 16

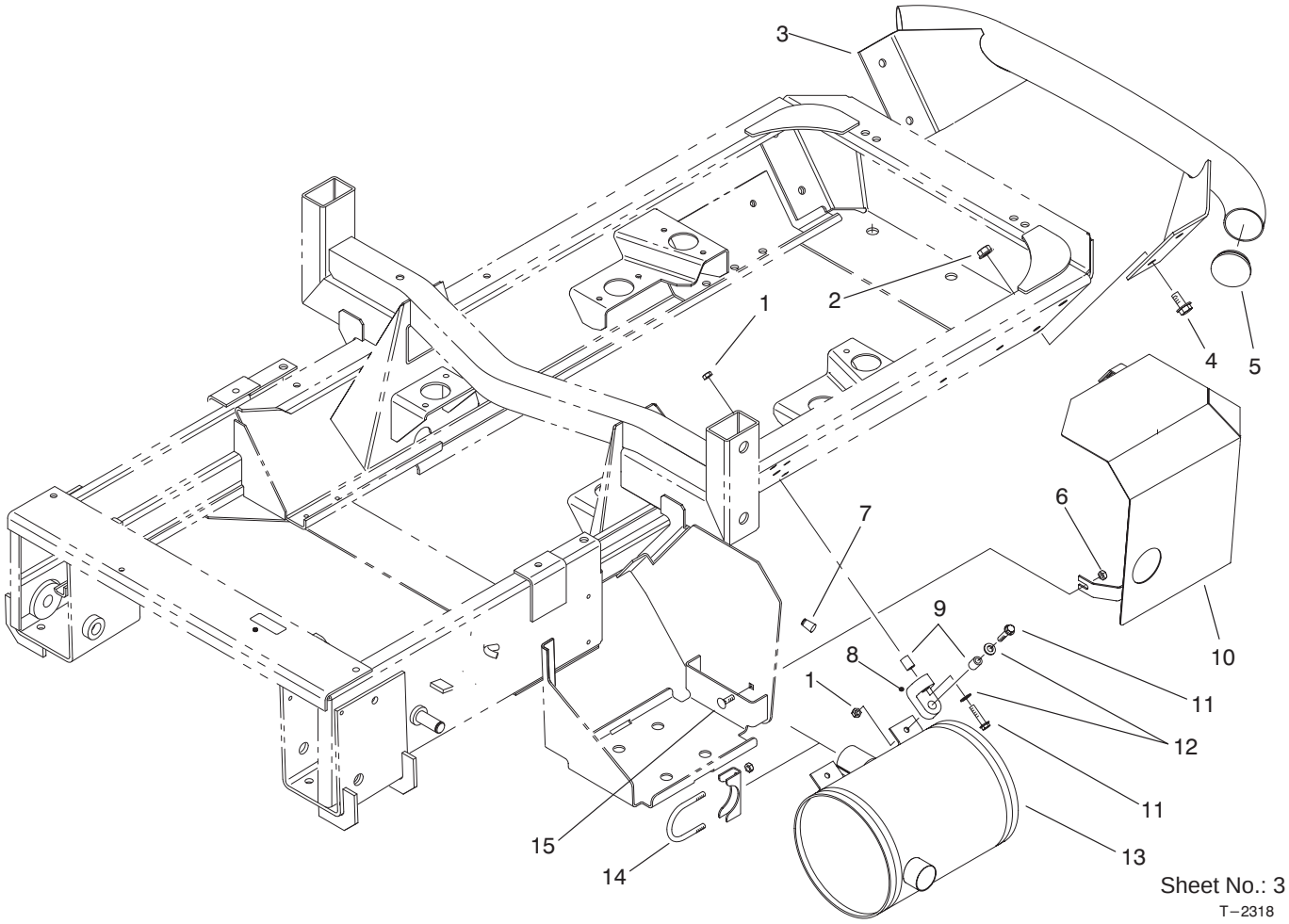
T–2333

Seat Assembly

Ref. No.	Part No.	Qty.	Description
1	351–80	1	Clip–Edging
2	92–6533	1	Kit–Cushion, Replacement
3	351–78	1	Edging
4	92–6534	1	Shell
5	72–9390	1	Belt–Seat (For All Models Except 30301)
6	3253–6	2	Washer–Lock (For All Models Except 30301)
7	3212–4	2	Screw–HH (For All Models Except 30301)
8	93–5599–03	1	Bracket–Seat, RH
9	93–5600–03	1	Bracket–Seat, LH
10	3234–5	4	Screw–HFH
11	33024–00	4	Nut–Lock
12	74–0720	1	Tube–Manual
13	2412–133	2	Clamp–R
14	33114–016	4	Screw–HH
15	321–3	2	Screw–HH
16	92–6282	1	Switch–Seat

Ref. No.	Part No.	Qty.	Description
*	93–5987	1	Asm–Seat (Incl. Ref. 1–4 & 15–16)

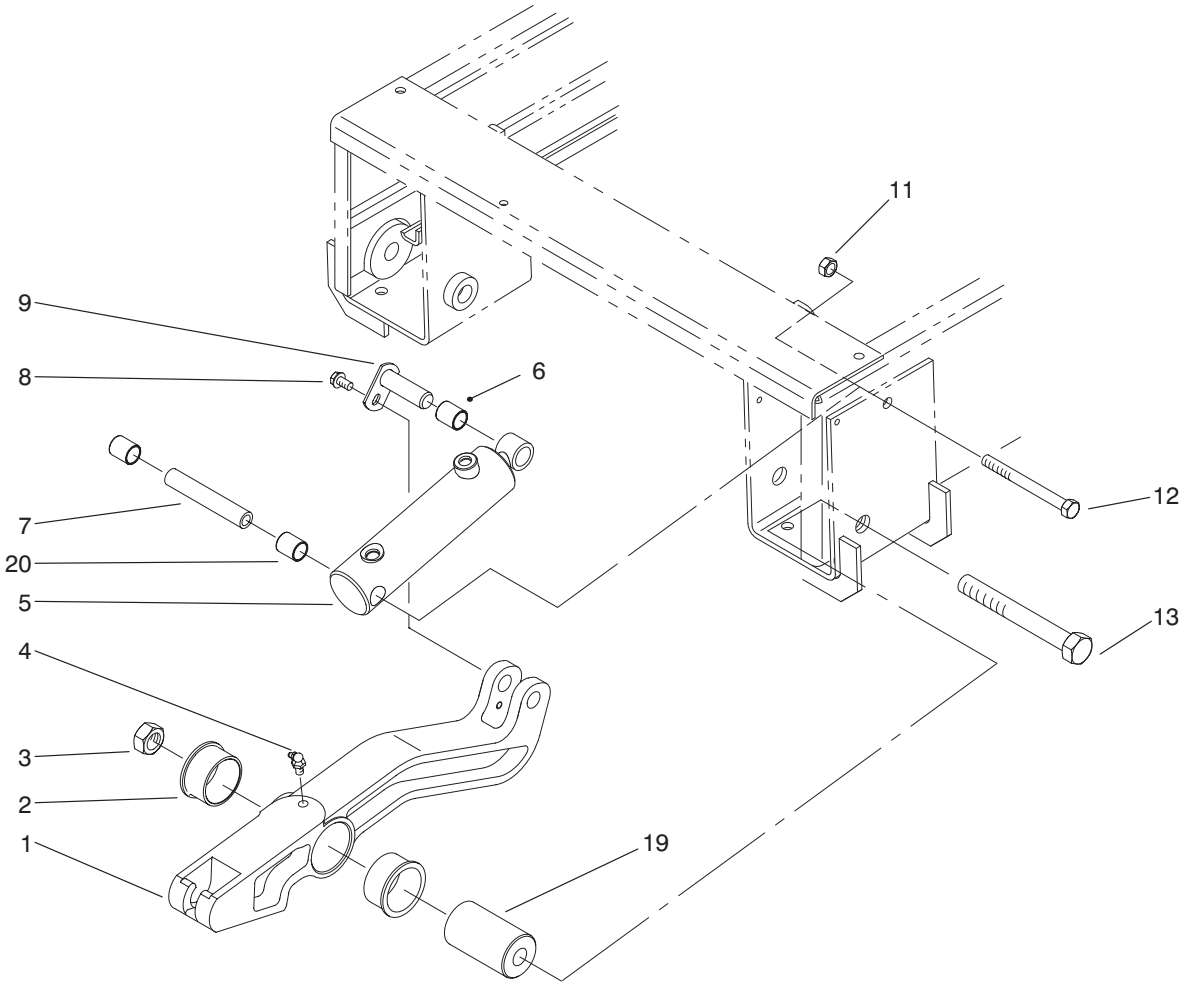
* Not Illustrated



Muffler & Rear Bumper Assembly

Ref. No.	Part No.	Qty.	Description
1	33024–00	3	Nut–Lock
2	33006–00	4	Nut–HFH
3	93–5440–03	1	Bumper
4	33106–030	4	Screw–HHF
5	2410–42	2	Cap–Bumper
6	33004–00	3	Nut–HF
7	93–5450	1	Nut–Clinch
8	95–5622	2	Hanger–Rubber
9	93–5023	4	Spacer
10	93–5594–03	1	Guard–Muffler
11	33104–035	4	Screw–HHF
12	3256–3	4	Washer–Flat
13	93–5946	1	Muffler
14	2112–6	1	Clamp–Muffler
15	33124–020	3	Screw–Carriage

Ref. No.	Part No.	Qty.	Description



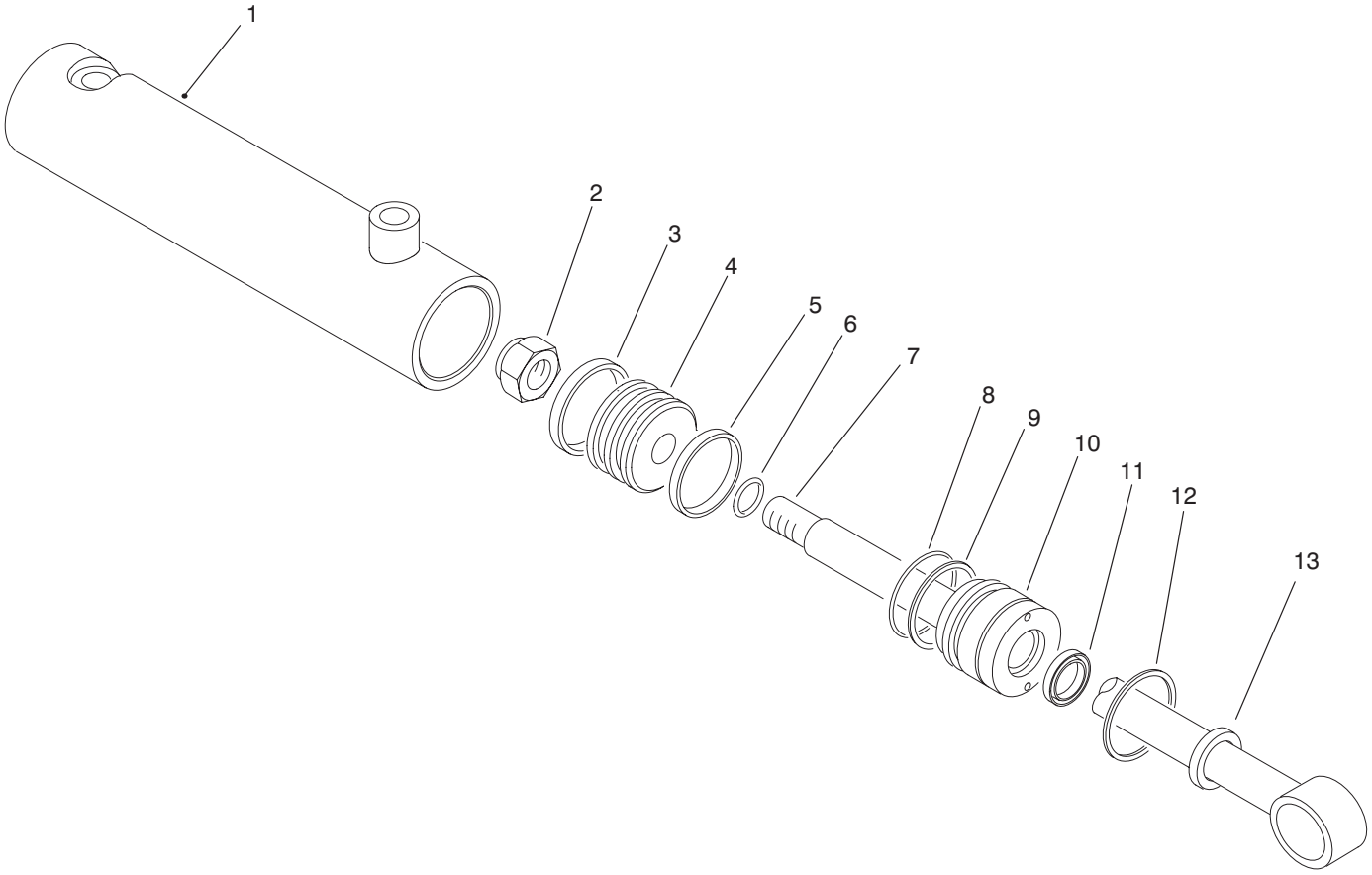
Sheet No.: 11
T–2328–1

Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	93–4868–03	1	Arm–Lift, LH
*	93–4867–03	1	Arm–Lift, RH
2	93–4665	4	Bushing–Flange
3	33019–00	2	Nut–HH
4	302–33	2	Fitting–Grease
5	95–5699	2	Cylinder–Hydraulic
6	93–4639	2	Bushing
7	95–9646	2	Spacer–Cylinder
8	33104–016	2	Screw–HHF
9	93–4630	2	Pin
11	33026–00	2	Nut–Lock
12	33116–150	2	Screw–HH
13	33119–160	2	Screw–HH
19	93–4587	2	Spacer–Pivot
20	95–9645	4	Bushing

Ref. No.	Part No.	Qty.	Description

* Not Illustrated



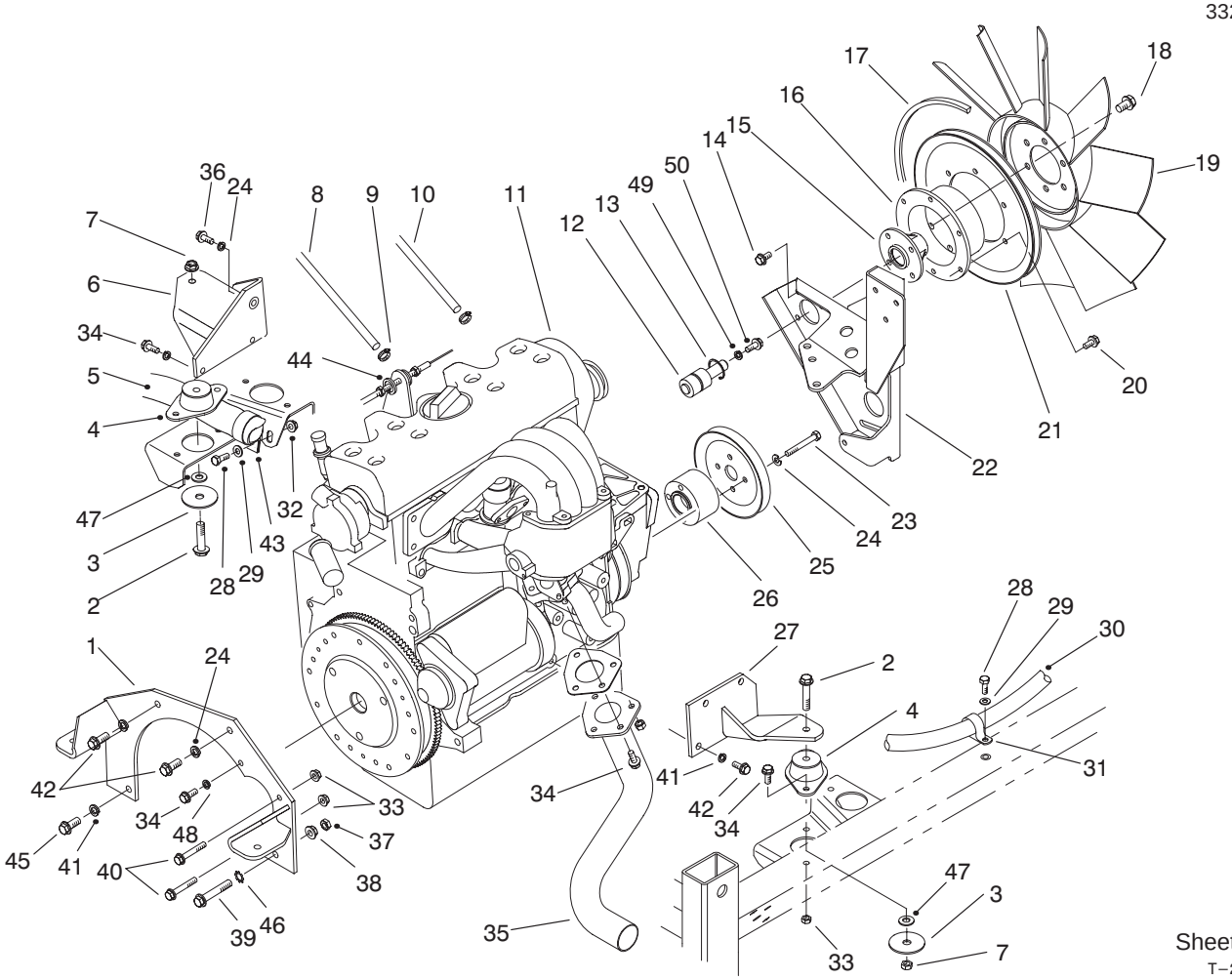
T–3210

Hydraulic Cylinder Assembly No. 95–5699

Ref. No.	Part No.	Qty.	Description
1	95–2606	1	Asm–Tube
2	95–2601	1	Nut–Lock
3	Ring–Wear		1
4	95–2603	1	Piston
5		1	Seal–Piston
6		1	O–Ring
7	95–2605	1	Asm–Rod
8		1	O–Ring
9		1	Washer–Backup
10	95–2602	1	Head
11		1	Seal–Rod
12	95–2604	1	Ring–Retaining
13		1	Seal–Dust
*	95–2607	1	Kit–Repair, Seal (Incl. Ref. #3, 5, 6, 8, 9, 11, & 13)

Ref. No.	Part No.	Qty.	Description

* Not Illustrated

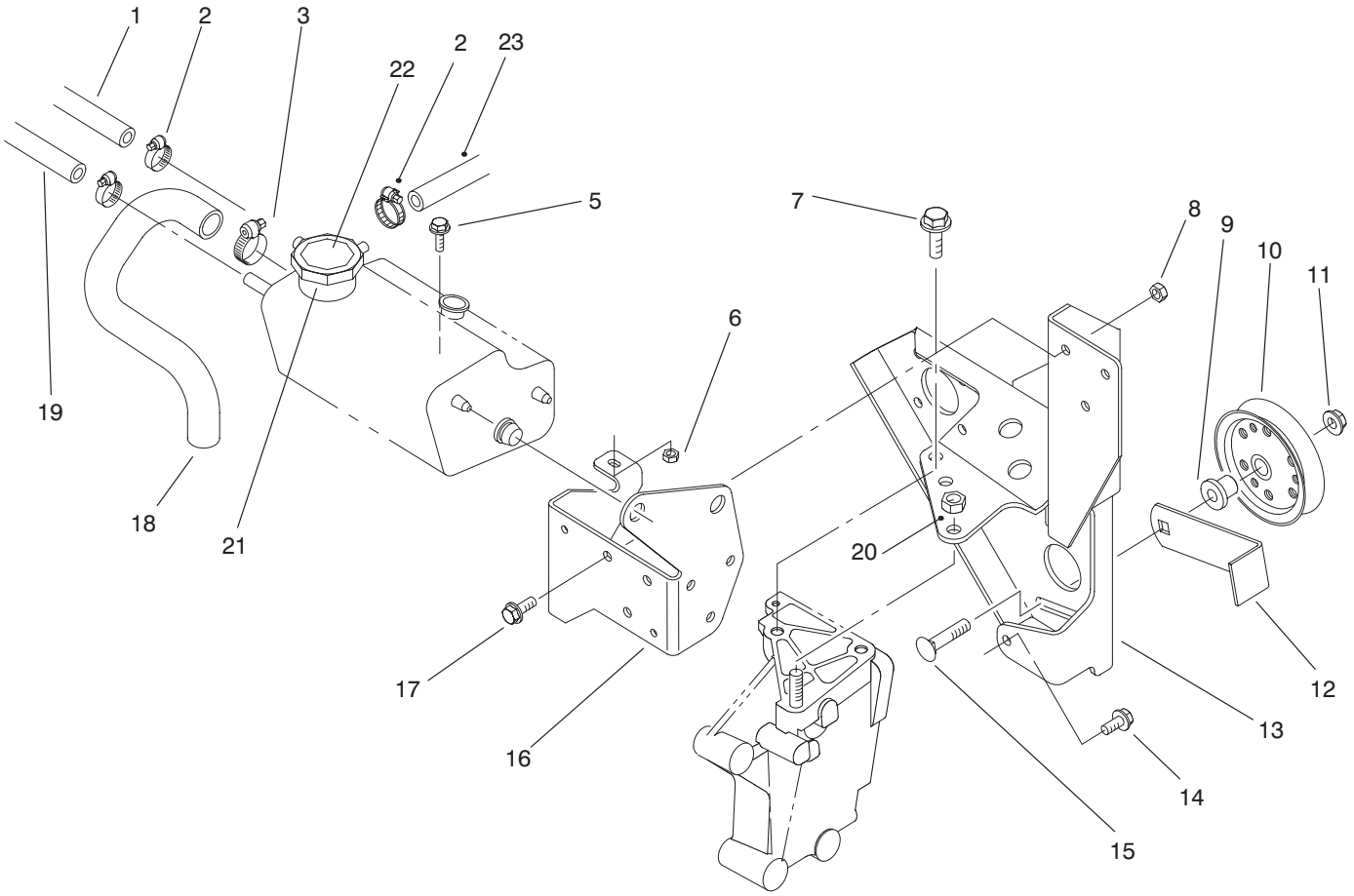


Sheet No.: 17
T–2334–4

Engine Mount Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5055–03	1	Plate–Engine, Front
2	33105–060	4	Screw–HHF
3	87–5100	4	Washer–Snubbing
4	93–5265	4	Mount–Engine
5	93–5596	1	Hose–Radiator, Lower
6	93–5059–03	1	Mount–Engine, RH
7	33025–00	4	Nut–Lock
8	93–5485	1	Hose–Fuel
9	2412–108	2	Clamp–Hose
10	93–5482	1	Hose–Fuel
11	93–5389	1	Engine–Peugeot #80197
12	98–3578	1	Bearing
13	32120–10	1	Ring–Retaining
14	33104–016	4	Screw–HHF
15	93–5187	1	Hub–Fan
16	93–5545	1	Hub–Fan
17	95–5618	1	V–Belt
18	33105–020	6	Screw–HHF
19	93–5114	1	Fan
20	33114–016	6	Screw–HH
21	96–1267–03	1	Pulley–Fan
22	93–5166–03	1	Bracket–Fan
23	33114–060	4	Screw–HH
24	3253–4	7	Washer–Lock
25	93–5192–03	1	Pulley–Crank

Ref. No.	Part No.	Qty.	Description
26	93–5196	1	Spacer–Crank
27	93–5062–03	1	Mount–Engine, LH
28	33114–020	2	Screw–HH
29	3256–23	2	Washer–Flat
30	93–5537	1	Hose
31	2412–104	1	Clamp–R
32	33004–00	1	Nut–HF
33	33024–00	3	Nut–Lock
34	33104–020	4	Screw–HHF
35	93–5049	1	Pipe–Exhaust
36	33104–035	1	Screw–HHF
37	33015–00	1	Nut–HH
38	33005–00	1	Nut–HF
39	71–4690	1	Screw–HHF
40	33104–050	2	Screw–HHF
41	3253–6	6	Washer–Lock
42	33105–025	5	Screw–HHF
43	2412–127	1	Clamp–R
44	86–2990	2	Mount–Cable, Throttle
45	33105–035	1	Screw–HHF
46	3255–9	1	Washer–Lock
47	33095–00	4	Washer–Flat
48	3255–8	1	Washer–Lock
49	3256–24	1	Washer–Flat
50	3234–25	1	Screw–HH



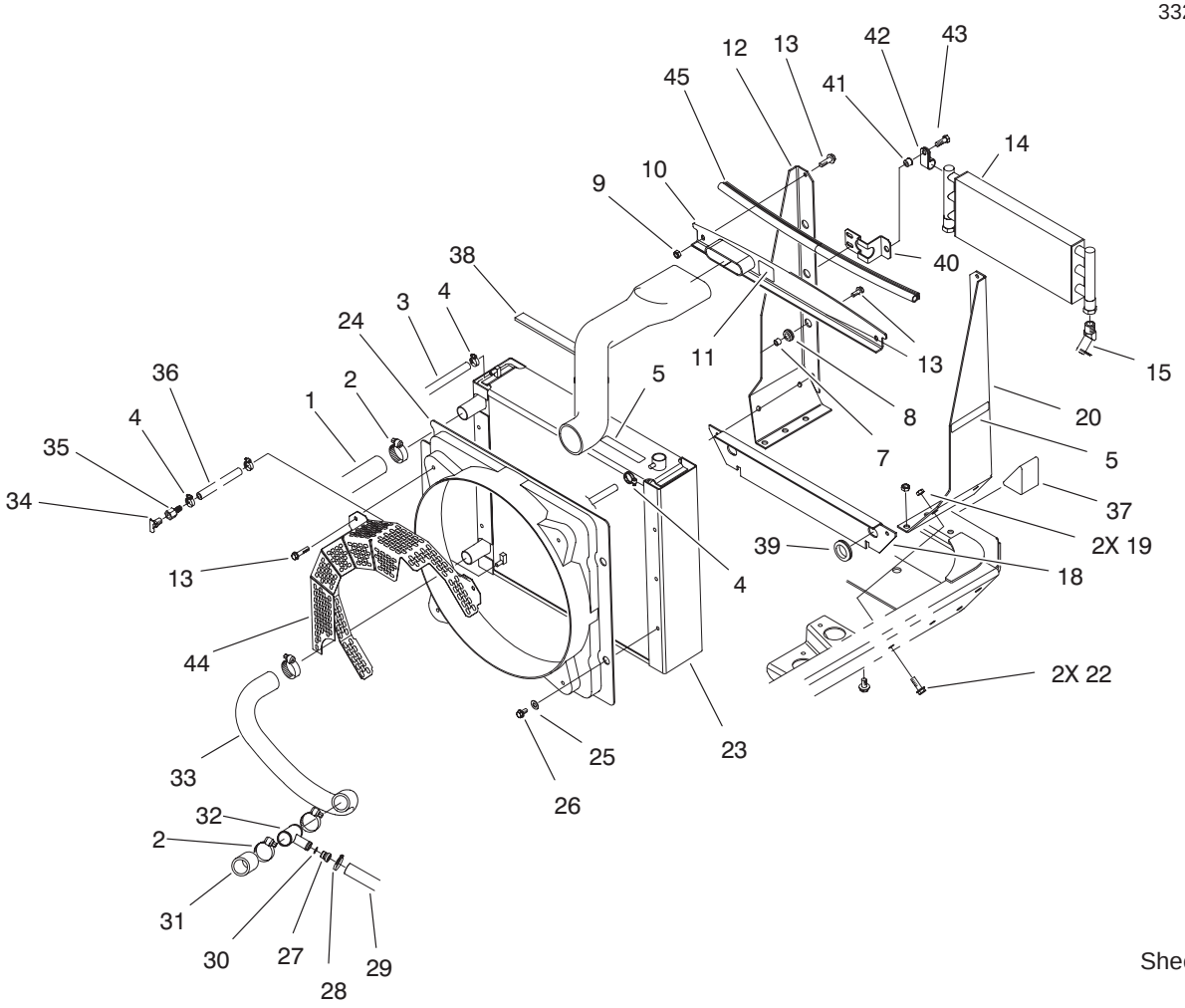
Sheet No.: 22

T–2347–4

Fan Bracket & Degasser Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5539	1	Hose
2	2412–36	4	Clamp–Hose
3	2412–141	2	Clamp–Hose
5	33103–020	1	Screw–HHF
6	33023–00	1	Nut–Lock
7	33105–020	1	Screw–HHF
8	33024–00	3	Nut–Lock
9	93–5197	1	Spacer–Idler
10	66–5310–03	1	Pulley–Idler
11	33005–00	1	Nut–HF
12	93–5504–03	1	Lever
13	93–5166	1	Bracket–Fan
14	33104–020	1	Screw–HHF
15	33125–040	1	Screw–Carriage
16	93–5096–03	1	Bracket–Degasser
17	33104–020	3	Screw–HHF
18	93–5536	1	Hose–Degasser
19	93–5538	1	Hose
20	33025–00	1	Nut–HH
21	94–2800	1	Pressure Plug
21	66–3240	1	Cap–Radiator (Europe)
22	93–7840	1	Decal–Radiator (Europe)
23	47–2967	1	Hose

Ref. No.	Part No.	Qty.	Description



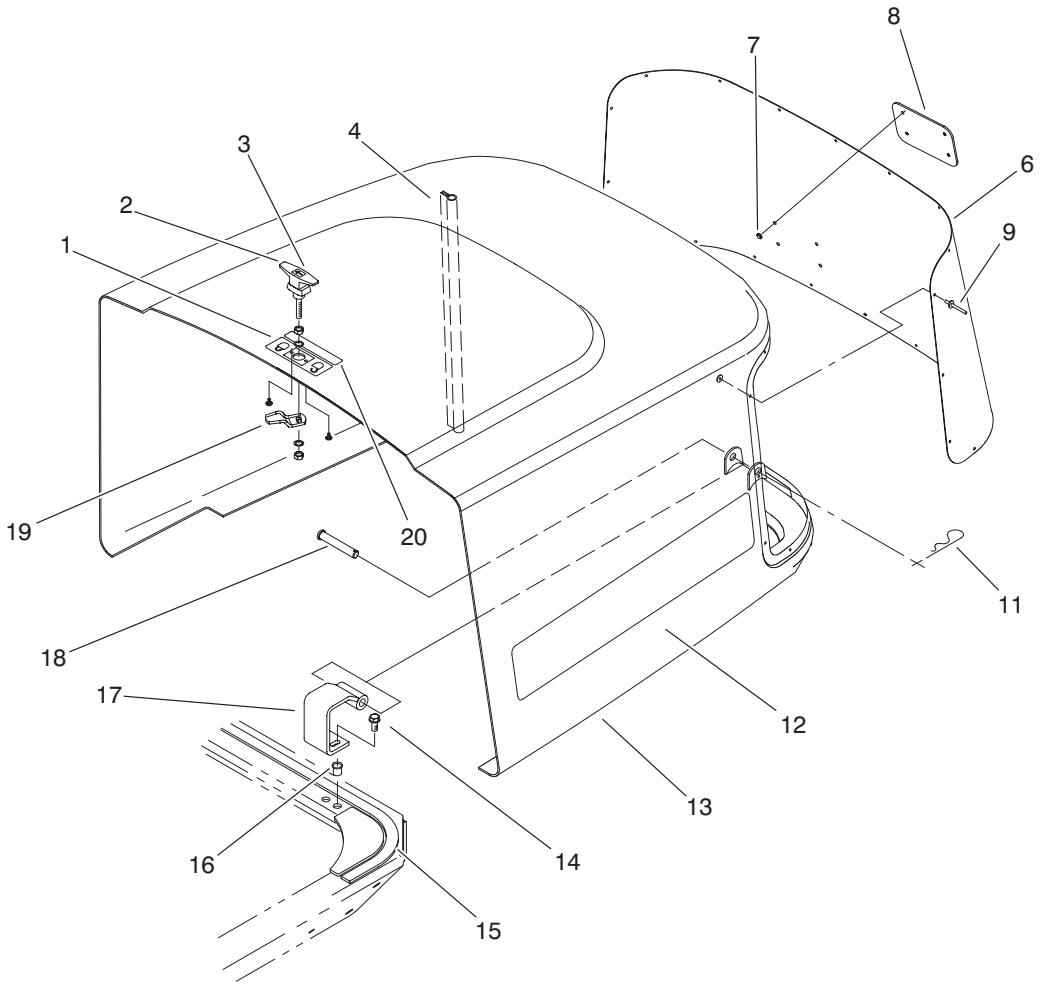
Sheet No.: 6

T–2322

Radiator & Cooler Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5595	1	Hose–Radiator, Upper
2	2412–111	6	Clamp–Hose
3	93–5538	1	Hose
4	2412–108	3	Clamp–Hose
5	77–3100	3	Decal–Caution
5	93–7272	3	Decal–Caution (Europe)
7	93–5109	6	Spacer
8	93–5108	6	Grommet–Rubber
9	33024–00	4	Nut–Lock
10	99–5799–03	1	Support– Upper, Radiator
11	83–9150	1	Decal–Starting Fluid
11	93–7275	1	Decal–Starting Fluid (Europe)
12	93–5104–03	1	Support–RH, Radiator
13	33104–020	13	Screw–HHF
14	63–5400	1	Exchanger–Heat
15	95–5629	2	Fitting–Adapter
18	95–0987–03	1	Support–Lower, Radiator
19	33025–00	4	Nut–Lock
20	93–5105–03	1	Support–LH, Radiator
22	33105–030	4	Screw–HHF
23	93–5942	1	Radiator
24	93–5034	1	Shroud–Radiator

Ref. No.	Part No.	Qty.	Description
25	3256–35	4	Washer–Flat
26	33104–016	4	Screw–HHF
27	93–5054	1	Fitting–Restriction
28	2412–141	2	Clamp
29	93–5537	1	Hose
30	93–5392	1	O–Ring
31	93–5597	1	Hose–Radiator
32	93–5053	1	Fitting–Hose, Radiator
33	93–5596	1	Hose–Radiator, Lower
34	93–5528	1	Fitting–Drain Cock
35	354–94	1	Barb–Female, Hose
36	18–2080	1	Hose
37	93–5954	2	Foam–Plug
38	95–0698	1	Strip–Foam
39	240–3	2	Grommet–Rubber
40	95–0972–03	2	Bracket–Mount, Cooler
41	32148–9	2	Nut–Clinch
42	2412–81	2	Clamp–R
43	323–6	2	Screw–HH
44	98–0663–03	1	Guard–Fan (Europe)
45	93–5251	1	Seal–Bulb, Top

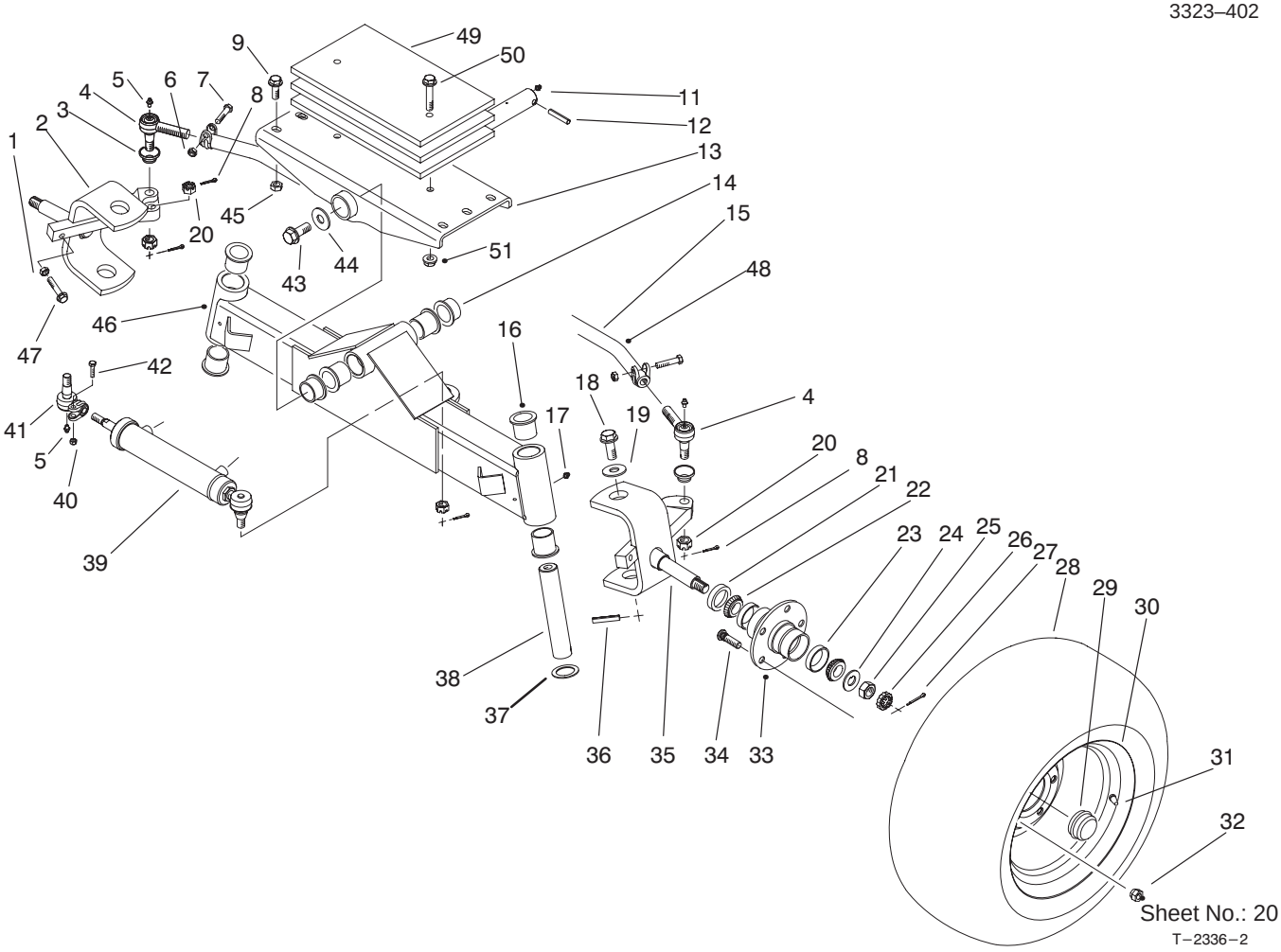


Sheet No.: 5
T–2321

Hood Assembly

Ref. No.	Part No.	Qty.	Description
1	94–6328	1	Decal
2	93–5570	1	Handle–Latch (Incl. Ref. #19)
3	94–6329	1	Decal
4	93–5250	2	Seal–Bulb, Side
6	93–5229–03	1	Screen–Rear
7	94–2638	4	Nut–Tinnermann
8	93–6028	1	Plate–Logo, Toro
9	95–3428	22	Rivet–Pop
11	3290–467	2	Pin–Cotter, Hair
12	93–5422	2	Decal–Hood
13	93–5086	1	Asm–Hood
14	33104–020	4	Screw–HHF
15	93–5254	1	Strip–Foam, Rear
16	93–5450	4	Nut–Clinch
17	93–5093–03	2	Pivot–Hood
18	283–55	2	Pin–Clevis
19	93–5566	1	Arm–Latch
20	93–7272	1	Decal–Caution

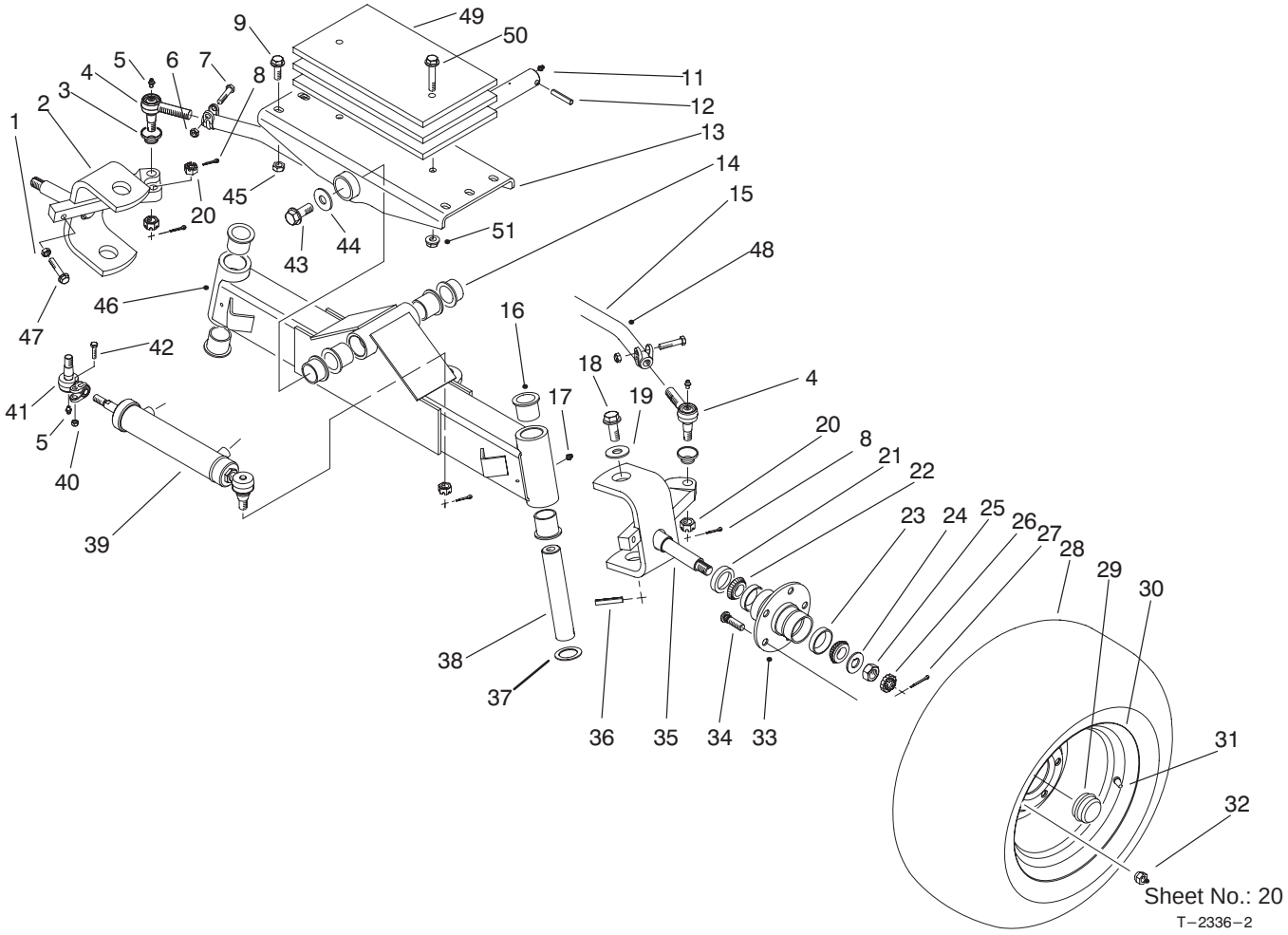
Ref. No.	Part No.	Qty.	Description



Rear Axle Assembly (Model No. 30301)

Ref. No.	Part No.	Qty.	Description
1	33015–00	2	Nut–HH
2	98–7096	1	Spindle–RH (Incl. Ref. #21 & 22)
3	71–4760	2	Seal
4	71–4740	2	Rod–End
5	302–55	3	Fitting–Grease
6	3296–39	2	Nut–Lock
7	323–9	2	Screw–HH
8	3272–11	4	Pin–Cotter
9	33106–035	6	Screw–HHF
10	93–5142	1	Pin–Axle, Pivot
11	302–2	1	Fitting–Grease
12	32121–110	1	Pin–Spring
13	95–4411–03	1	Pivot–Axle
14	93–4510	2	Bushing–Castor
15	104–0100–03	1	Asm–Tie Rod (Incl. Ref. #3–7, 20 & 48)
16	69–6470	6	Bushing
17	302–5	2	Fitting–Grease
18	33108–035	2	Screw–HHF
19	3256–7	2	Washer–Flat
20	32136–13	4	Nut–Castle
21	95–2647	2	Seal–Hub
22	95–2646	4	Cone–Bearing
23	254–72	4	Cup–Bearing

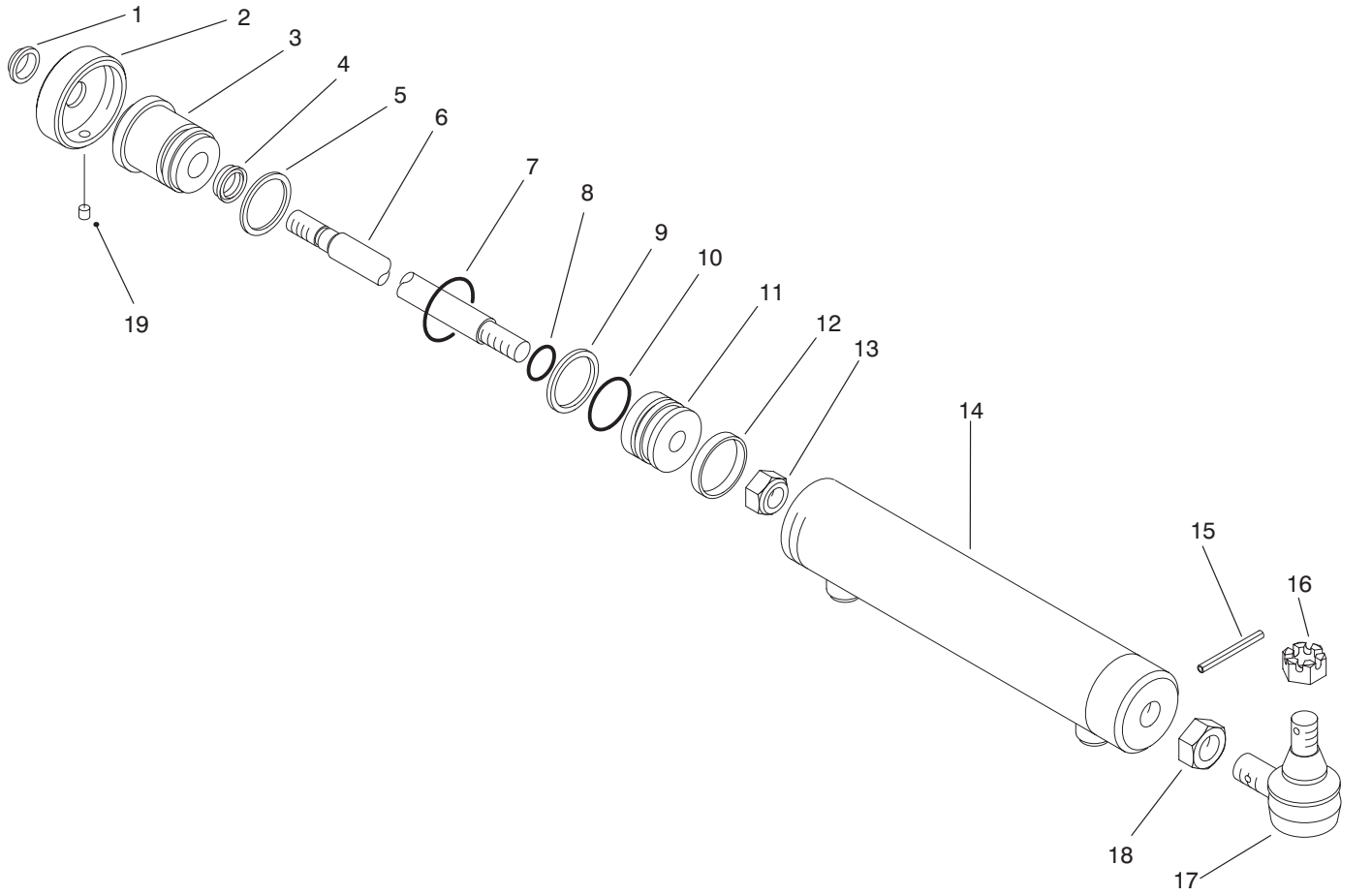
Ref. No.	Part No.	Qty.	Description
24	93–0309	2	Washer–Tab
25	3220–7	2	Nut–Jam
26	93–0307	2	Nut–Retainer, Lock
27	3272–13	2	Pin–Cotter
28	74–5560	2	Tire (30301TC)
28	95–2625	2	Tire (30301)
29	241–119	2	Cap–Dust
30	217–122	2	Rim (30301TC)
30	100–1357	2	Rim (30301)
31	232–27	2	Stem–Valve
32	242–50	10	Nut–Lug
33	21–2820	2	Asm–Hub (Incl. Ref. #23 & 34)
34	10–6830	10	Stud–Drive
35	98–7095	1	Spindle–LH (Incl. Ref. #21 & 22)
36	32121–110	2	Pin–Spring
37	62–2170	2	Washer–Thrust
38	93–5503	2	Pin–Spindle, Pivot
39	93–5502	1	Cylinder–Steering
40	3296–4	1	Nut–Lock
41	92–5072	1	Rod–End, Ball Joint
42	3210–7	1	Screw–HH
43	33108–035	1	Screw–HHF
44	3256–7	1	Washer–Flat



Rear Axle Assembly (Model No. 30301) (Continued)

Ref. No.	Part No.	Qty.	Description
45	33026–00	6	Nut–Lock
46	93–5121–03	1	Axle–Rear
47	33115–040	2	Screw–HH
48	104–0101–03	1	Asm–Clamp & Tube
49	93–5983–03	3	Plate–Weight (Model 30301 Only)
50	33106–060	2	Screw
51	33006–00	2	Nut–HF

Ref. No.	Part No.	Qty.	Description



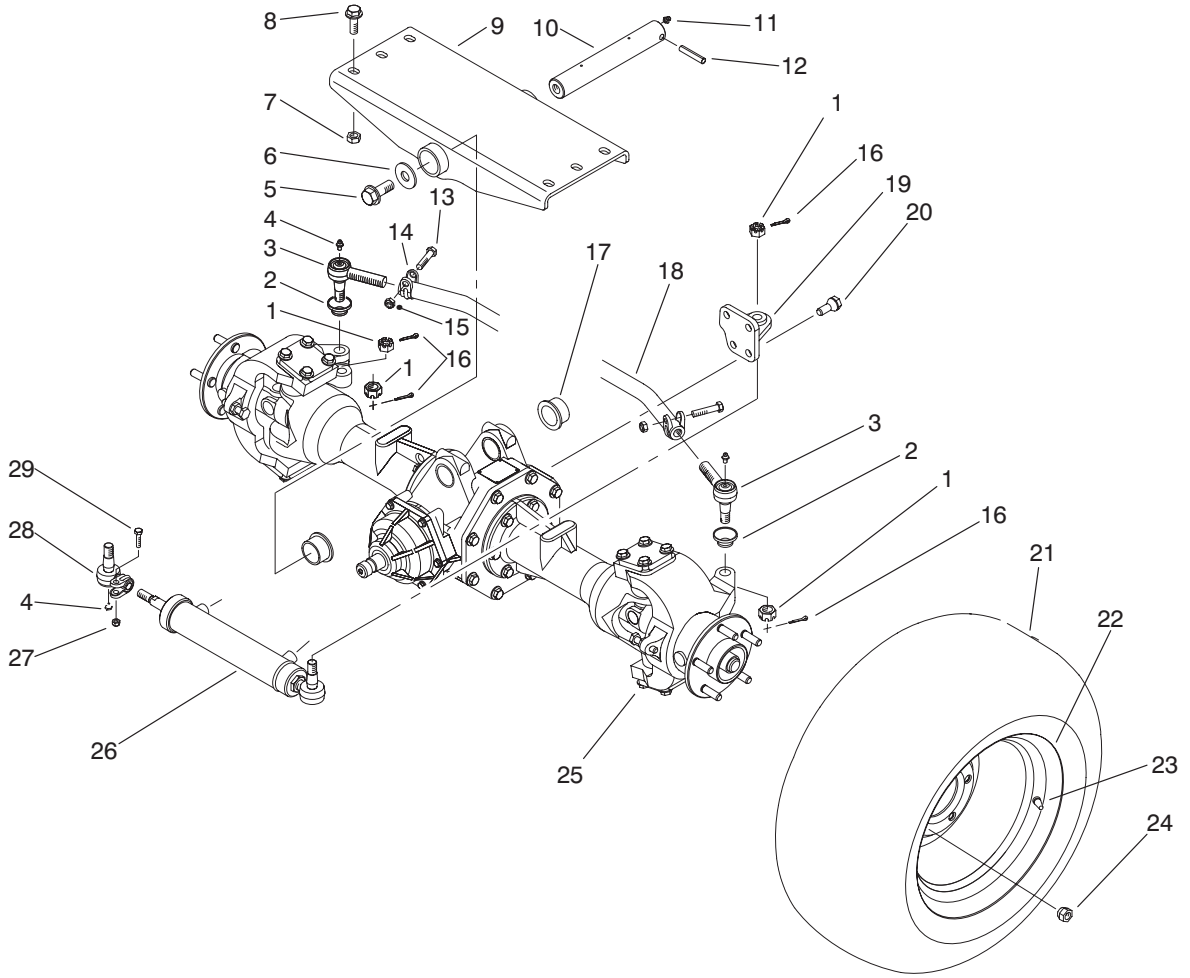
T–2260

Steering Cylinder Assembly No. 93–5502

Ref. No.	Part No.	Qty.	Description
1		1	Wiper–Rod
2	92–5705	1	Cap–Threaded
3	92–5706	1	Head–Cap, Threaded
4		1	U–Cup, Loaded
5		1	Ring–Backup
6	93–5555	1	Rod
7		1	O–Ring
8		1	O–Ring
9		1	Ring–Piston, Unithane
10		1	O–Ring
11	92–5703	1	Piston
12		1	Ring–Wear
13	88–3590	1	Nut–Lock
14		1	Asm.–Barrel
15	32121–44	1	Pin–Roll
16	32136–13	1	Nut–Slotted
17	82–5730	1	End–Tie Rod
18	82–5740	1	Nut–Jam
19	92–5708	1	Screw–Set, Socket Hd.
*	92–5707	1	Kit–Seal (Incl. Ref. #1, 4, 5, 7–10 & 12)

Ref. No.	Part No.	Qty.	Description

* Not Illustrated

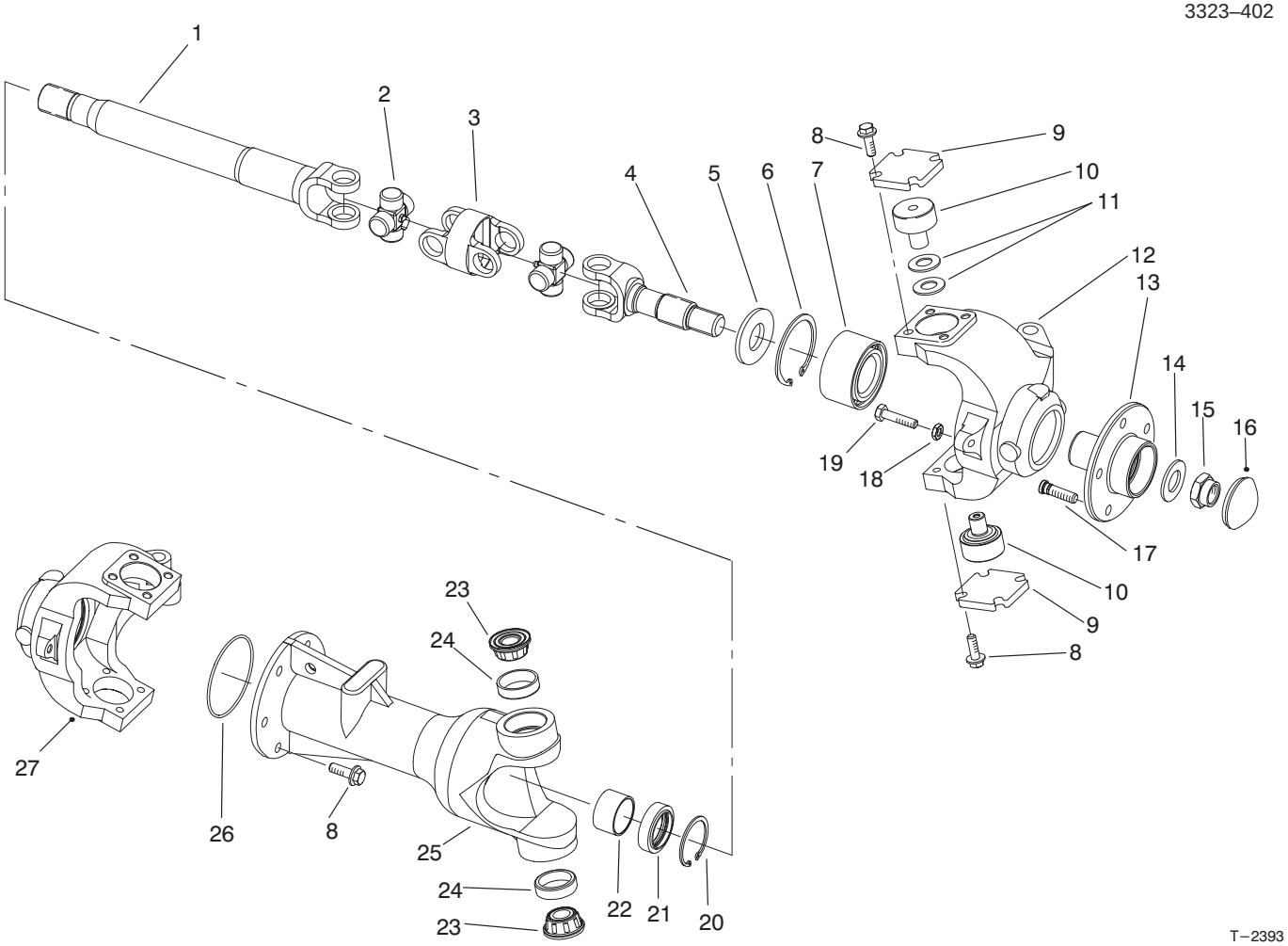


Sheet No.: 21
T–2431

Rear Axle Assembly (Model No. 30302)

Ref. No.	Part No.	Qty.	Description
1	32136–13	4	Nut–Hex. Slotted
2	71–4760	2	Seal
3	71–4740	2	Rod–End
4	302–55	3	Fitting–Grease
5	33108–040	1	Screw–HHF
6	3256–7	1	Washer–Flat
7	33026–00	6	Nut–Lock
8	33106–035	6	Screw–HHF
9	95–4411–03	1	Pivot–Axle
10	93–5142	1	Pin–Axle, Pivot
11	302–2	1	Fitting–Grease
12	32121–110	1	Pin–Spring
13	323–9	2	Screw–HH
14	104–0101–03	1	Asm–Clamp & Tube
15	3296–39	2	Nut–Lock
16	3272–11	4	Pin– Cotter
17	93–4510	2	Bushing–Castor
18	104–0100–03	1	Asm–Tie Rod (Incl. Ref. #1–4, & 13–15)
19	93–5436–03	1	Anchor–Cylinder
20	93–5444	4	Screw–Tapered
21	74–5560	2	Tire (30302TC)
21	95–2625	1	Tire
22	217–122	2	Rim (30302TC)
22	100–1357	1	Rim

Ref. No.	Part No.	Qty.	Description
23	232–27	2	Stem–Valve
24	93–5268	10	Nut–Lug
25	95–2592	1	Axle–Rear, 4WD
26	93–5962	1	Cylinder–Steering
27	3296–4	1	Nut–Lock
28	92–5072–03	1	Rod–End, Ball Joint
29	3210–7	1	Screw–HH



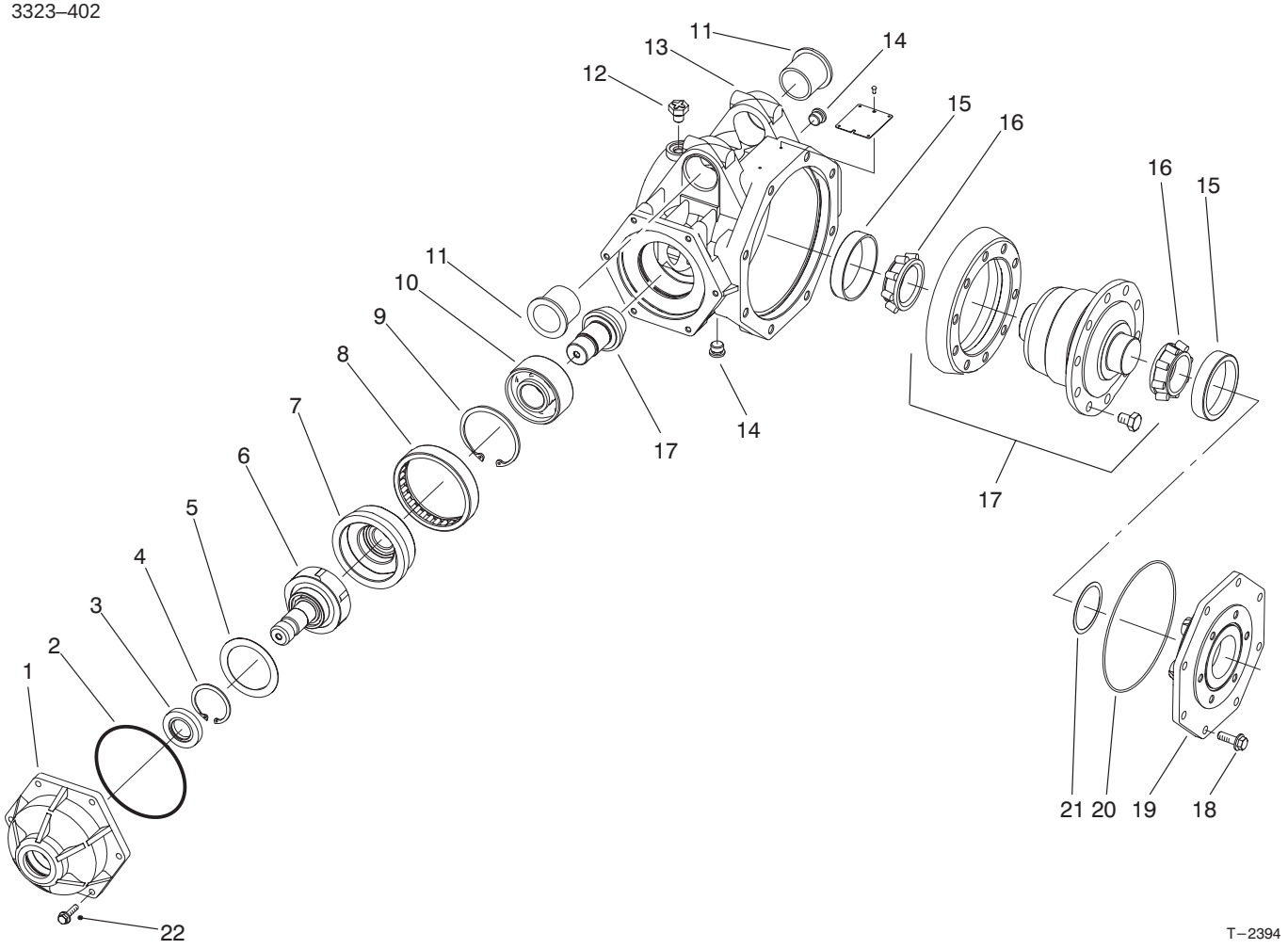
T–2393

4WD Axle–Universal Joint & Kingpin Assembly

Ref. No.	Part No.	Qty.	Description
1	95–0650	1	Yoke–Shaft, Inboard
2	95–0651	2	Kit–Cross & Bearing
3	95–0652	1	Yoke–Pivot, Double
4	95–0653	1	Yoke–Shaft, Outboard
5	94–4037	2	Washer
6	93–5964	2	Ring–Retaining
7	94–4030	2	Bearing–Tapered
8	33105–030	28	Screw–HHF
9	94–4119	4	Cover–Kingpin
10	94–4121	4	Trunnion–Kingpin
11	94–4126	4	Washer–Belleville
12	94–4116	1	Flange–Spindle, LH
13		2	Hub–Wheel
14	94–4034	2	Washer
15	94–4079	2	Nut–Hex.
16	95–0654	2	Cap–Dust
17	94–4143	10	Stud–Wheel
18	33015–00	2	Nut–Hex.
19	33105–050	2	Screw–HHF
20	94–4133	2	Ring–Retaining
21	94–4128	2	Seal–Lip
22	94–4127	2	Bearing–Journal
23		4	Cone–Bearing
24		4	Cup–Bearing
25		2	Housing–Kingpin
26	94–4131	2	O–Ring

Ref. No.	Part No.	Qty.	Description
27	94–4115	1	Flange–Spindle, RH
*	94–4123	1	Joint–Universal (Incl. Ref. #1–4)
*	94–9190	1	Asm–Housing, Axle (Incl. Ref. 20–22 & 25)
*	94–9191	1	Kit–Bearing, Kingpin (Incl. Ref. #23–24)
*	94–9193	1	Asm–Hub, Wheel (Incl. Ref. #13 & 17)
*	94–9194	1	Asm–Flange, Spindle RH (Incl. Ref. #6, 7, 13, 17 & 27)
*	94–9195	1	Asm–Flange, Spindle LH (Incl. Ref. #6, 7, 12, 13 & 17)
*	94–9198	1	Kit–Seal, Overhaul

* Not Illustrated

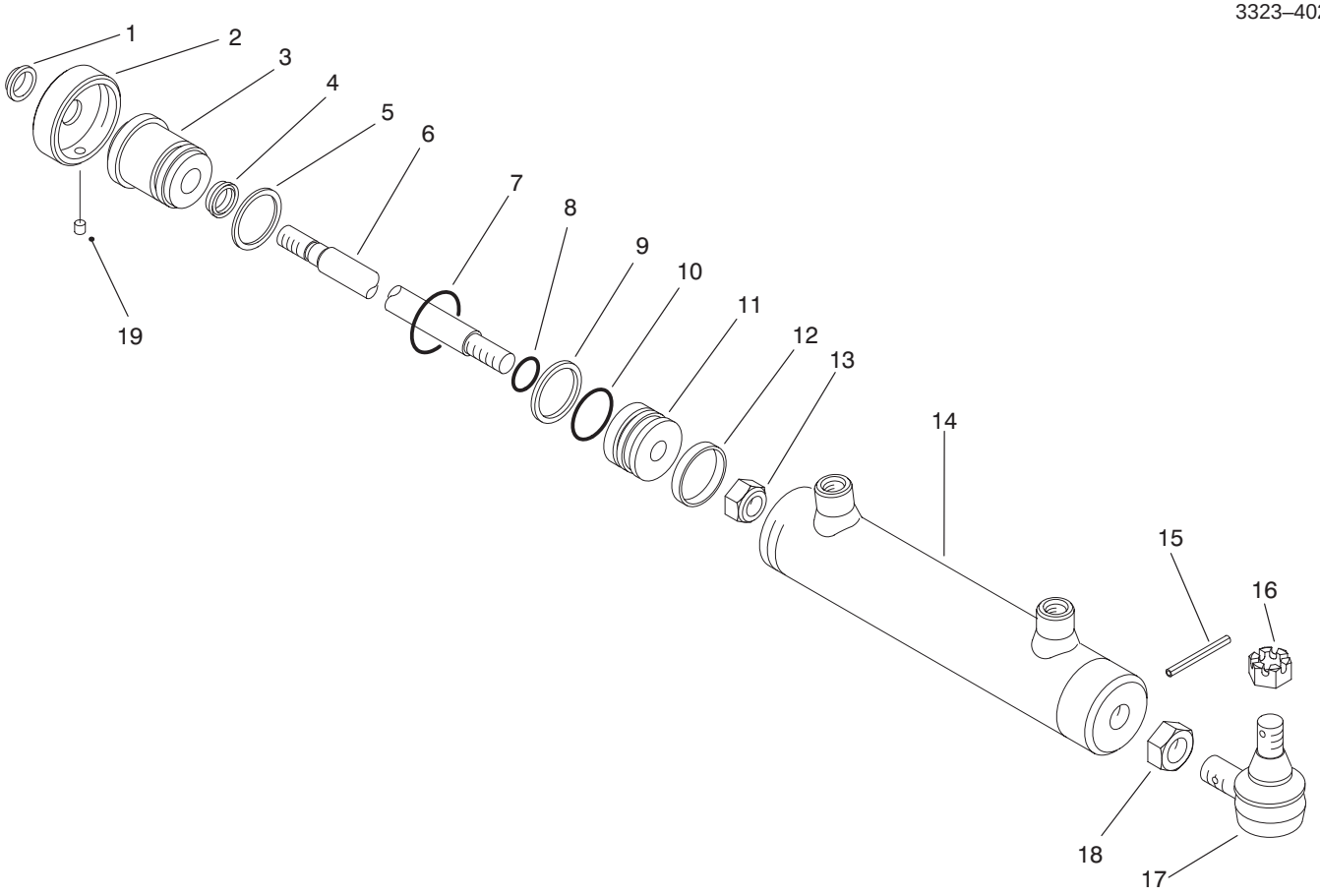


T–2394

4WD Axle–Housing Assembly

Ref. No.	Part No.	Qty.	Description
1	94–4134	1	Housing–Clutch
2	94–4132	1	O–Ring
3	94–3925	1	Seal–Lip
4	94–4029	1	Ring–Retaining, Internal
5	94–4137	1	Washer–Thrust
6	95–2590	1	Clutch
7	94–4138	1	Race–Clutch
8	94–4136	1	Bearing–Needle
9	69–3200	1	Ring–Retaining
10	94–4130	1	Bearing–Ball
11	69–6470	2	Bushing
12	94–3998	1	Vent–Breather
13		1	Housing–Axle Steerable
14	353–989	2	Plug
15		2	Cup–Bearing
16		2	Cone–Bearing
17	94–4120	1	Asm–Differential
18	33105–030	8	Screw–HHF
19	94–4114	1	Cover–Side
20	94–4129	1	O–Ring
21	94–9187	1	Kit–Shim, Differential
22	33103–025	6	Screw–HHF
*	94–9185	1	Asm–Gear, Bevel (Incl. Ref. #10, 15–17 & 21)
*	94–9186	2	Kit–Bearing, Differential (Incl. Ref. #15–16)
*	94–9188	1	Asm–Differential (Incl. Ref. #9–21)
*	94–9189	1	Asm–Housing, Differential (Incl. Ref. #11 –14)
*	95–2591	1	Asm–Clutch, Overrunning (Incl. Ref. #1–8 & 22)

* Not Illustrated

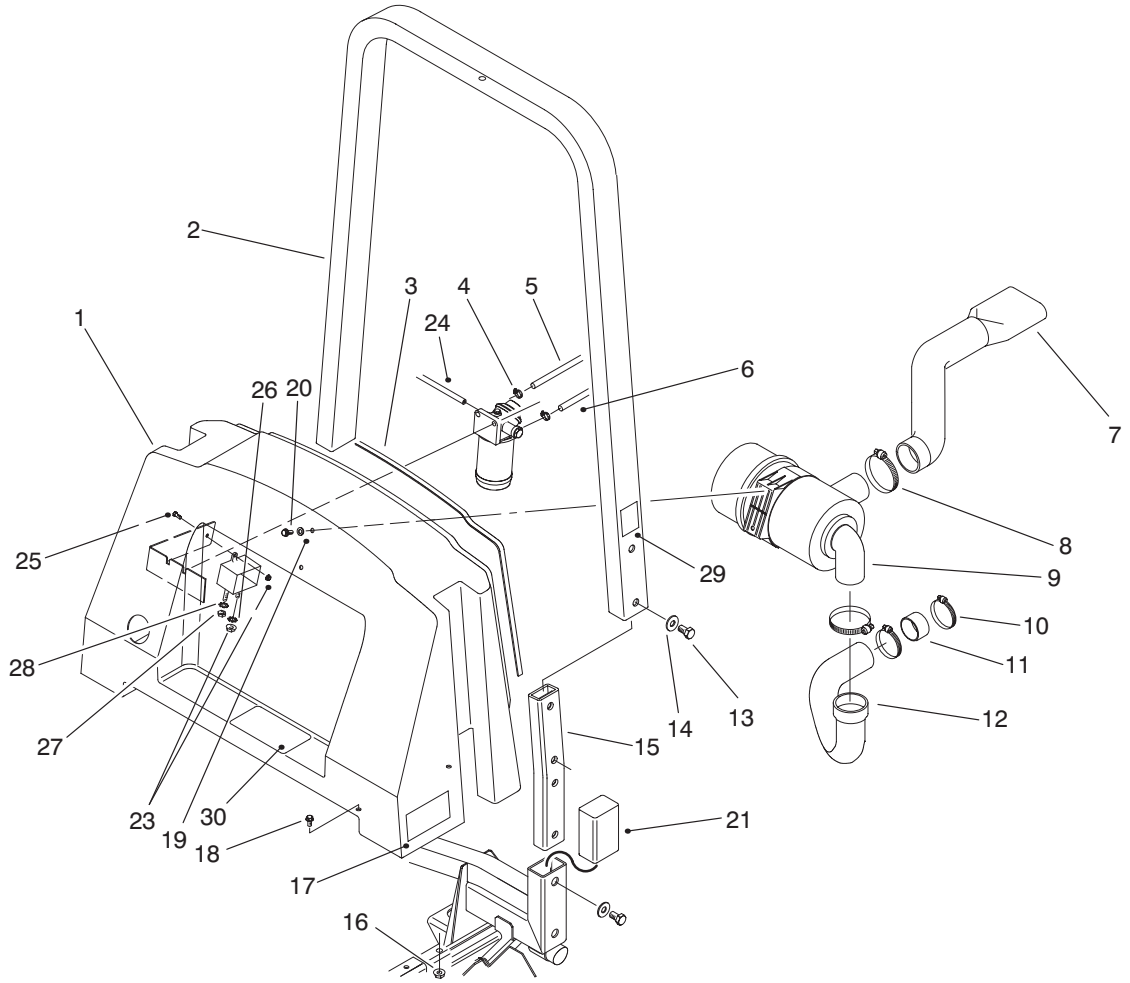


T–2432–1

Steering Cylinder Assembly No. 93–5962

Ref. No.	Part No.	Qty.	Description
1		1	Wiper–Rod
2	92–5705	1	Cap–Threaded
3	92–5706	1	Head–Cap, Threaded
4		1	U–Cup, Loaded
5		1	Ring–Backup
6	93–5555	1	Rod
7		1	O–Ring
8		1	O–Ring
9		1	Ring–Piston, Unithane
10		1	O–Ring
11	92–5703	1	Piston
12		1	Ring–Wear
13	88–3590	1	Nut–Lock
14		1	Asm–Barrel
15	32121–44	1	Pin–Roll
16	32136–13	1	Nut–Slotted
17	82–5730	1	End–Tie Rod
18	82–5740	1	Nut–Jam
19	92–5708	1	Screw–Set, Socket Hd.
*	92–5707	1	Kit–Seal (Incl. Ref. #1, 4, 5, 7–10 & 12)

Ref. No.	Part No.	Qty.	Description

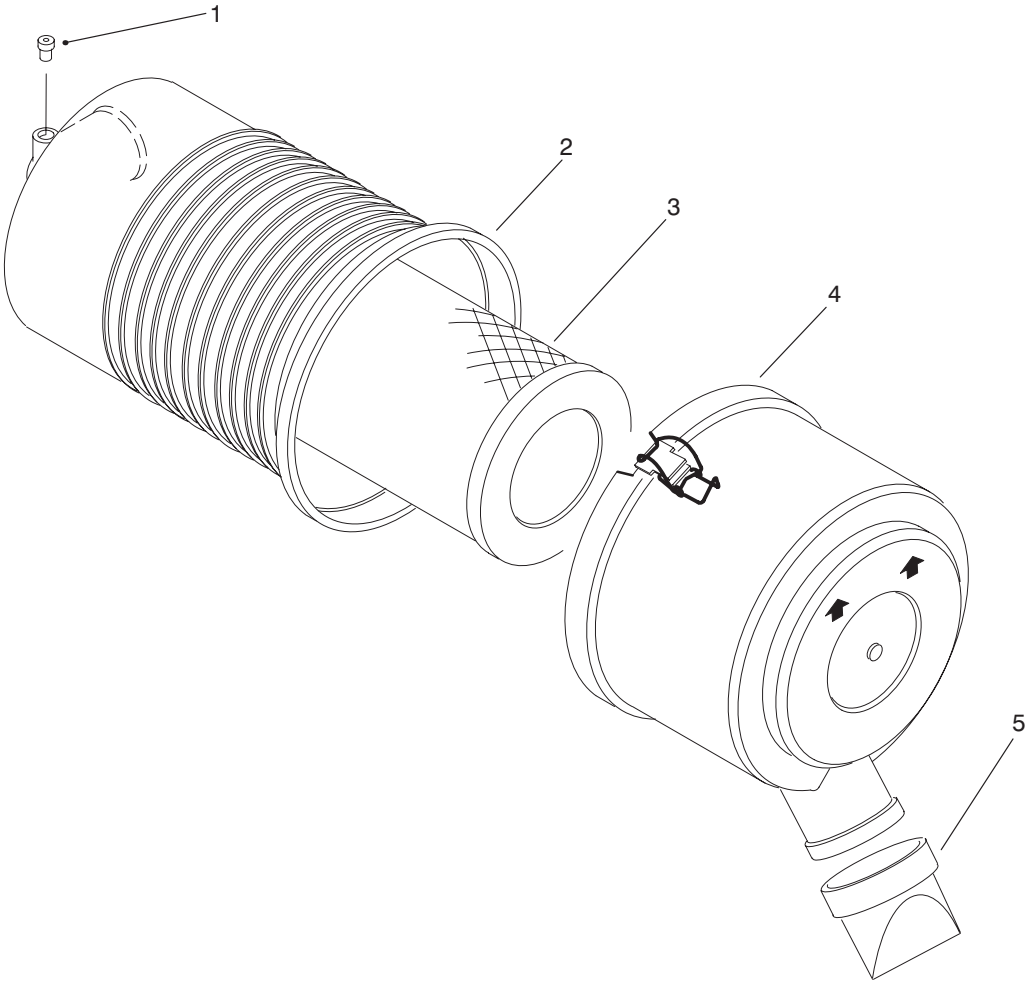


Sheet No.: 4
T–2319–6

Center Shroud & Air Cleaner Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5645	1	Asm–Shroud, Center
2	95–6135	1	Roll Over Protection System (Incl. Ref. #29) (Model 30302 Only)
3	93–5253	1	Strip–Foam, Hood
4	2412–108	2	Clamp–Hose
5	95–5936	1	Hose–Fuel
6	93–5484	1	Hose–Fuel
7	93–5083	1	Hose–Air Cleaner
8	2412–110	2	Clamp–Hose
9	93–5111	1	Air Cleaner
10	2412–130	2	Clamp–Hose
11	93–5427	1	Spacer–Intake
12	93–5084	1	Hose–Air Cleaner
13	93–5420	8	Screw–HH (Model 30302 Only)
14	3256–6	8	Washer–Flat (Model 30302 Only)
15	93–5157–03	2	Bar (Model 30302 Only)
16	33004–00	2	Nut–HF
17	94–8099	2	Decal–4 WD (Model 30302 Only)

Ref. No.	Part No.	Qty.	Description
18	33104–016	4	Screw–HHF
19	3256–3	2	Washer–Flat
20	33104–020	2	Screw–HHF
21	93–5638	2	Cover–Tube (Model 30301 Only)
23	33003–00	2	Nut–HF
24	68–5910	1	Hose
25	33113–020	1	Screw–HH
26	3255–7	1	Washer–Lock
27	48–7880	1	Nut
28	3255–10	1	Washer–Lock
29	95–5646	1	Decal–ROPS
30	93–9894	1	Decal–Safety (Model 30301 Only)

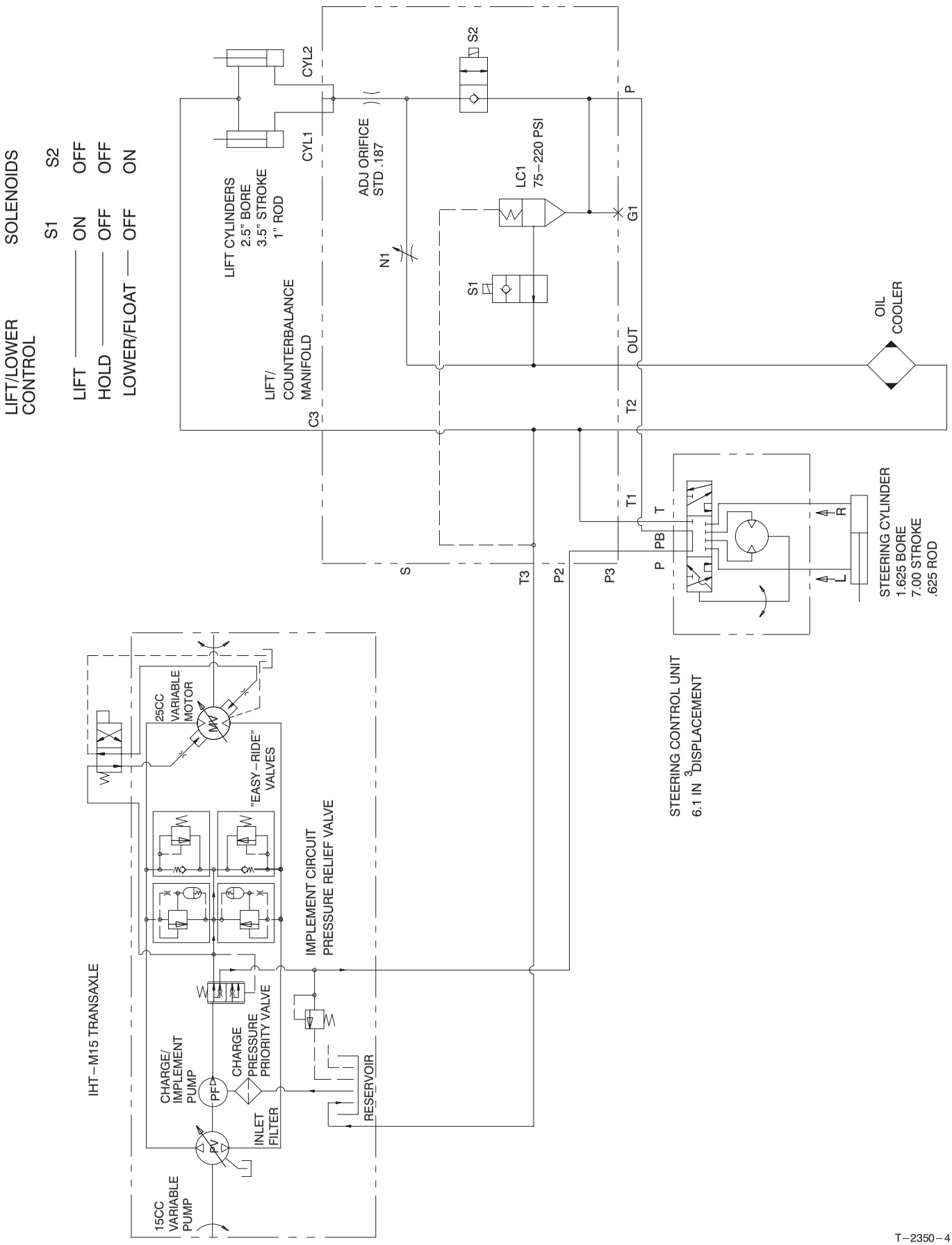


Air Cleaner Assembly No. 93–5111

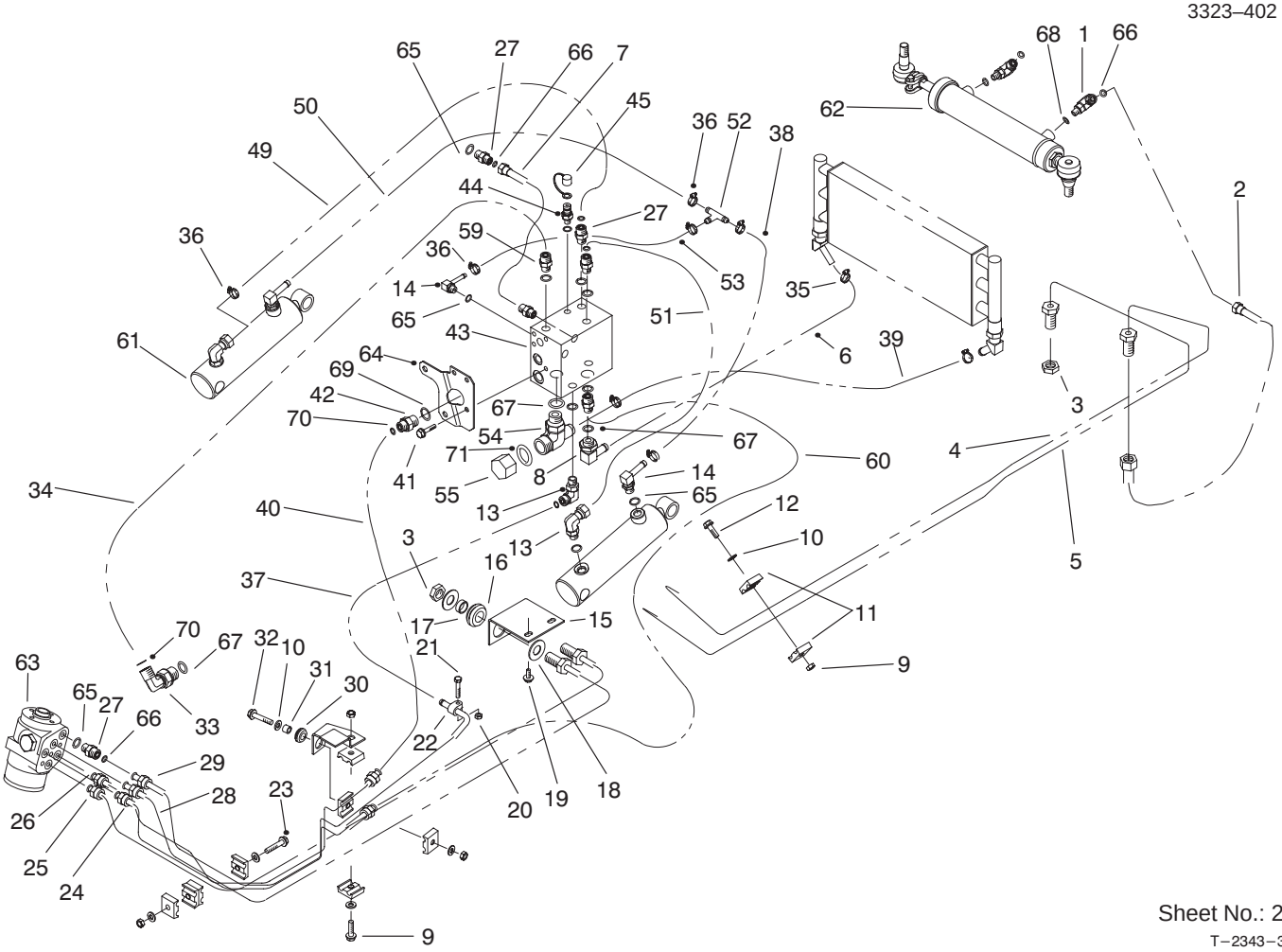
Ref. No.	Part No.	Qty.	Description
1		1	Plug
2		1	Asm–Body
3	94–1412	1	Asm–Element

Ref. No.	Part No.	Qty.	Description
4	93–5986	1	Asm–Cover
5	94–1414	1	Valve

Hydraulic Schematic



T–2350–4



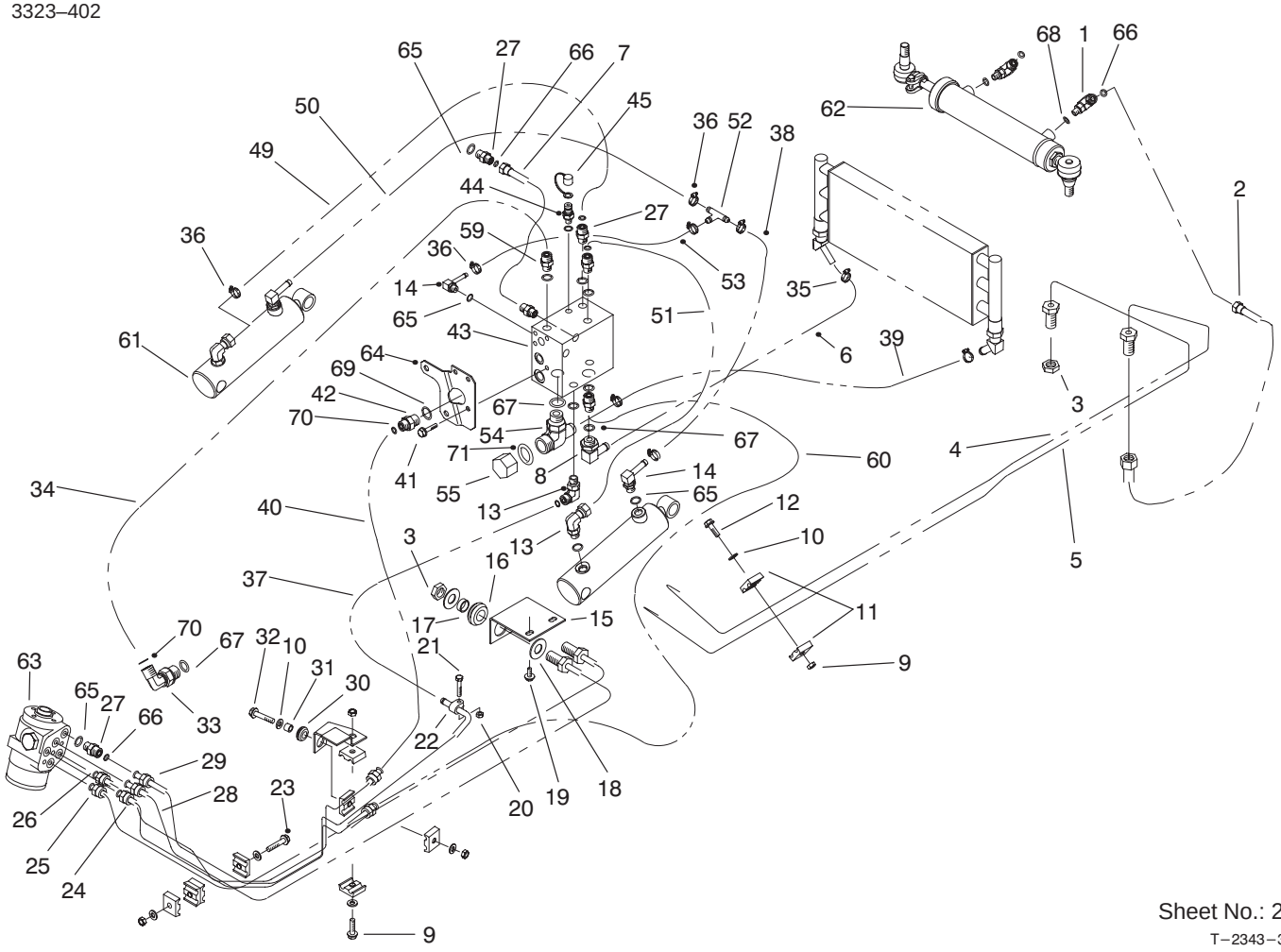
Sheet No.: 25

T–2343–3

Hydraulic Component Assembly

Ref. No.	Part No.	Qty.	Description
1	340–97	2	Fitting–Hydraulic 90# (Incl. Ref. #66 & 68)
2	93–5353	2	Asm–Hose
3	340–70	4	Nut–Lock, Bulkhead
4	93–5571	1	Tube–Hydraulic
5	93–5572	1	Tube–Hydraulic
6	95–0954	1	Hose
7	95–0950	1	Asm–Hose
8	354–128	1	Fitting–Barbed (Incl. Ref. #67)
9	33104–035	2	Screw–HHF
10	3256–23	6	Washer–Flat
11	56–7973	10	Clamp–Tube
12	33024–00	4	Nut–Lock
13	340–77	3	Fitting–Hydraulic 90# (Incl. Ref, # 65 & 66)
14	354–135	3	Fitting–Barbed (Incl. Ref. #65)
15	93–5587–03	1	Bracket–Bulkhead
16	240–4	2	Grommet
17	69–8970	2	Spacer
18	69–8940	4	Washer
19	33104–016	2	Screw–HHF
20	33023–00	1	Nut–Lock
21	33113–035	1	Screw–HH
22	2412–114	1	Clamp–Tube

Ref. No.	Part No.	Qty.	Description
23	33114–060	1	Screw–HH
24	93–5574	1	Tube–Hydraulic
25	93–5576	1	Tube–Hydraulic
26	93–5575	1	Tube–Hydraulic
27	340–2	13	Adapter (Incl. Ref, # 65 & 66)
28	93–5577	1	Tube–Hydraulic
29	93–5573	1	Tube–Hydraulic
30	93–5108	1	Grommet–Rubber
31	93–5109	1	Spacer
32	33104–040	1	Screw–HHF
33	340–105	1	Elbow (Incl. Ref. #67 & 70)
34	95–0975	1	Tube–Hydraulic
35	2412–141	4	Clamp–Hose
36	2412–108	7	Clamp–Hose
37	95–0952	1	Hose
38	93–5358	1	Hose
39	95–0955	1	Hose
40	93–5346	1	Hose
41	33104–025	3	Screw–HHF
42	340–2	1	Adapter (Incl. Ref. #69 & 70)
43	94–9291	1	Manifold–Hydraulic



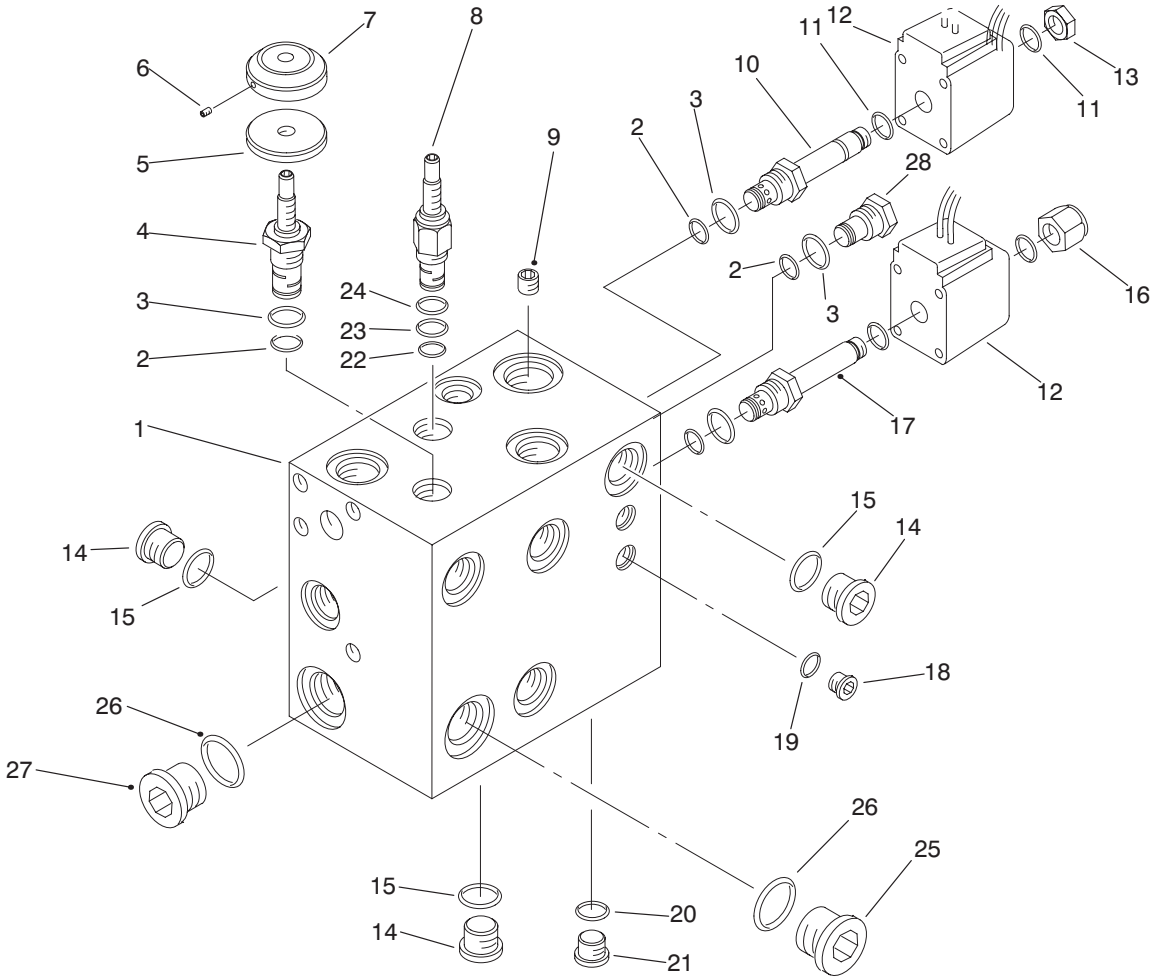
Sheet No.: 25

T–2343–3

Hydraulic Component Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
44	354–77	1	Fitting–Quick Connect (Incl. Ref. #68)
45	353–947	1	Cap–Dust
49	93–5386	1	Hose
50	93–5357	1	Hose
51	93–5385	1	Hose
52	354–107	1	Fitting–Tee
53	95–0953	1	Hose
54	94–9295	1	Fitting–Tee (Incl. Ref. #67 & 71)
55	95–0979	1	Cap–Hydraulic
59	340–5	1	Fitting–Hydraulic, Straight (Incl. Ref. #65 & 70)
60	95–0951	1	Hose
61	95–5699	2	Cylinder–Hydraulic
62	93–5962	1	Cylinder–Steering (Model 30302)
63	93–5165	1	Steering Control Unit
64	94–9282	1	Bracket–Counter – balance
65	237–42	20	O–Ring
66	237–22	20	O–Ring
67	237–80	3	O–Ring
68	237–78	3	O–Ring
69	237–79	1	O–Ring

Ref. No.	Part No.	Qty.	Description
70	237–30	2	O–Ring
71	237–58	1	O–Ring



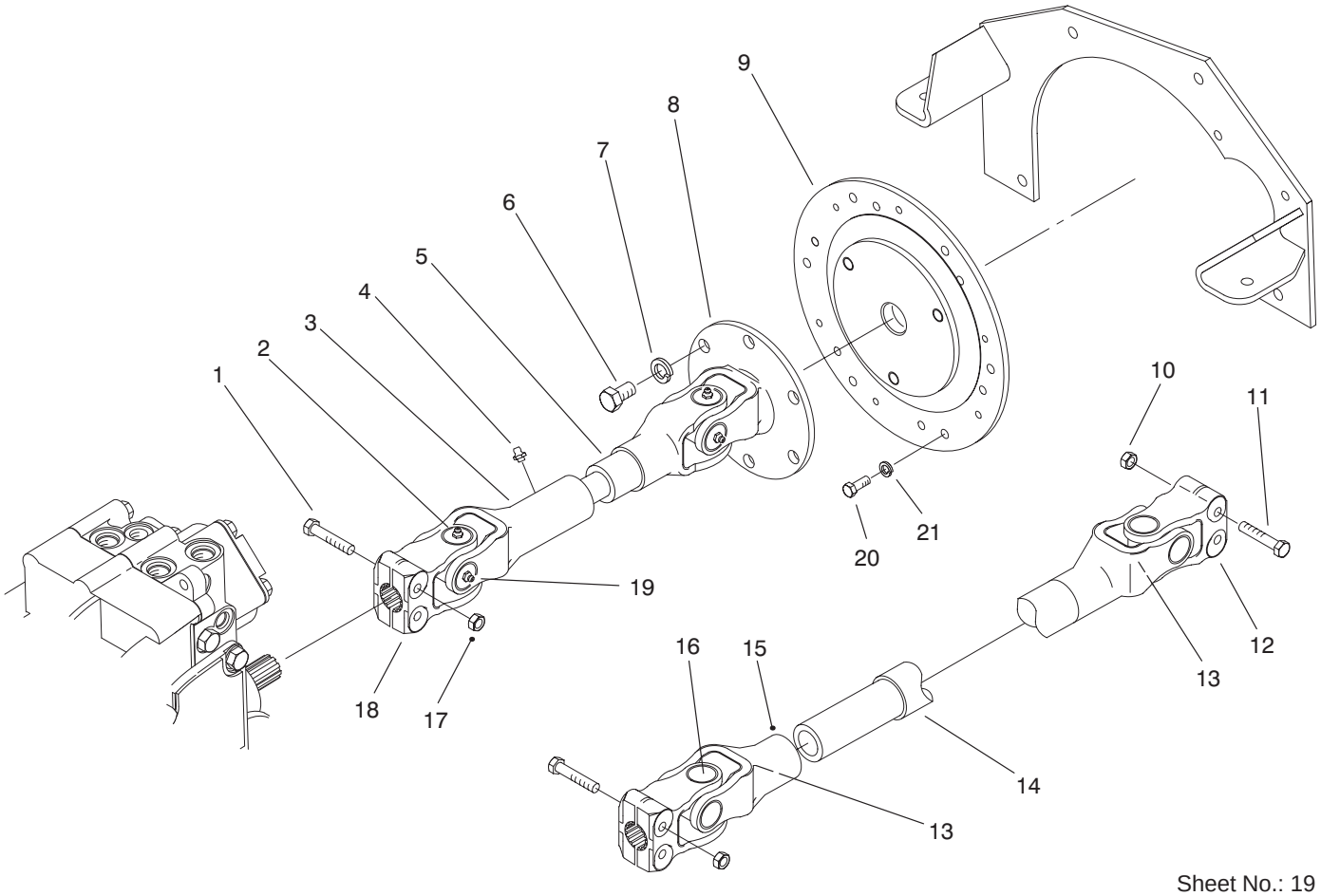
T–2650

Manifold Assembly No. 94–9291

Ref. No.	Part No.	Qty.	Description
†1		1	Body
†2		3	O–Ring
†3		3	O–Ring
4	93–5944	1	Valve–Needle (Incl. Ref, #2, 3 & 5–7)
†5		1	Wheel
†6		1	Screw–Set
7	93–5948	1	Knob–Knurled (Incl. Ref. #5 & 6)
8	93–5943	1	Valve–Logic (Incl. Ref. #22–24)
9	95–5941	1	Plug–Orifice (.187 Dia.)
10	92–6315	1	Cartridge–NC, Poppet (Incl. Ref. #2, 3, 11 & 13)
11	94–5438	4	O–Ring
12	88–9190	2	Kit–Solenoid Coil
13	3219–10	1	Nut
14	353–989	6	Plug (Incl. Ref. #15)
15	237–42	6	O–Ring
†16		1	Nut
17	93–7494	1	Cartridge–NO, Poppet (Incl. Ref. #2, 3, 11 &16)

Ref. No.	Part No.	Qty.	Description
18	353–991	5	Plug (Incl. Ref. #19)
19	237–156	5	O–Ring
20	237–78	1	O–Ring
21	353–990	1	Plug (Incl. Ref. #20)
†22		1	O–Ring
†23		1	O–Ring
†24		1	O–Ring
25	354–70	1	Plug (Incl. Ref. #26)
26	237–79	2	O–Ring
27	353–988	1	Plug (Incl. Ref. #26)
28	95–7480	1	Plug–Cavity (Incl. Ref. #2 & 3)
*	69–4240	1	Kit–Seal (Incl. Ref. #22–24)
*	75–2080	1	Kit–Seal (Incl. Ref. #2 & 3)
*	93–5948	1	Kit–Knob (Incl. Ref. #5–7)
*	95–7003	1	Plug–Orifice (Optional)

* Not Illustrated
† Not Serviced Separately



Sheet No.: 19

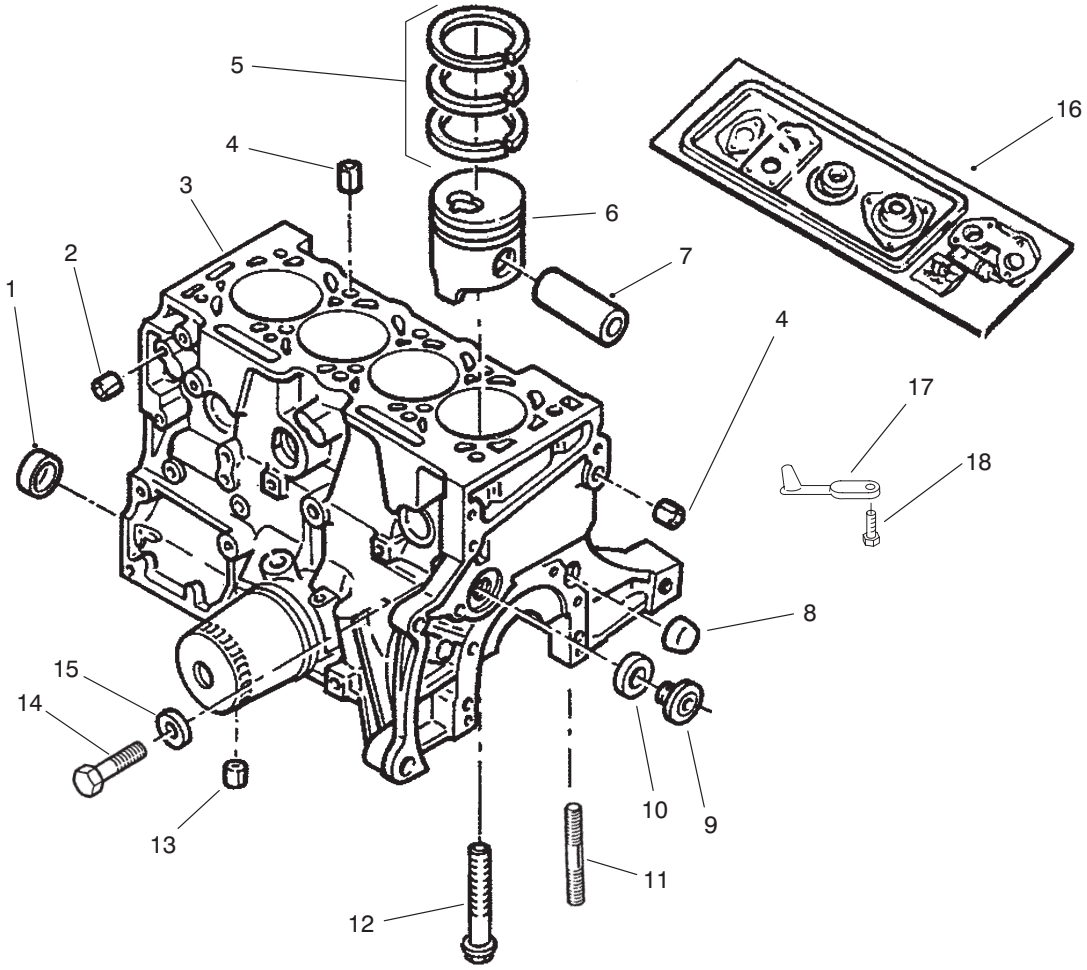
T–2335–2

Drive Shaft Assembly

Ref. No.	Part No.	Qty.	Description
1	33115–045	2	Screw–HH
2	95–2644	2	Kit–Cross & Bearing (Incl. Ref. #19)
3	95–2600	1	Yoke–Slip
4	302–5	2	Fitting–Grease
5	95–2599	1	Yoke & Shaft
6	33106–020	3	Screw–HHF
7	3253–7	3	Washer–Lock
8	95–2643	1	Yoke–Flange
9	93–5043–03	1	Plate–Adapter, Engine
10	33024–00	4	Nut–Lock (Model 30302)
11	33114–050	4	Screw–HH (Model 30302)
12	93–5560	2	Yoke–Clamp (Model 30302)
13	302–8	2	Fitting–Grease 45# (Model 30302)
14	93–5565	1	Yoke & Sleeve (Model 30302)
15	93–5564	1	Yoke & Shaft (Model 30302)
16	93–5561	2	Kit–Cross & Bearing (Model 30302)
17	33025–00	2	Nut–Lock
18	100–1354	1	Clamp–Yoke

Ref. No.	Part No.	Qty.	Description
19	302–58	8	Fitting–Grease
20	93–5398	6	Screw–HH
21	3253–4	6	Washer–Lock
*	100–1353	1	Asm–Drive Shaft, Engine (Incl. Ref. #2–5, 8, 18, & 19)
*	93–5042	1	Asm–Drive Shaft (Model 30302 Only) (Incl. Ref. #4, & 12–16)

* Not Illustrated



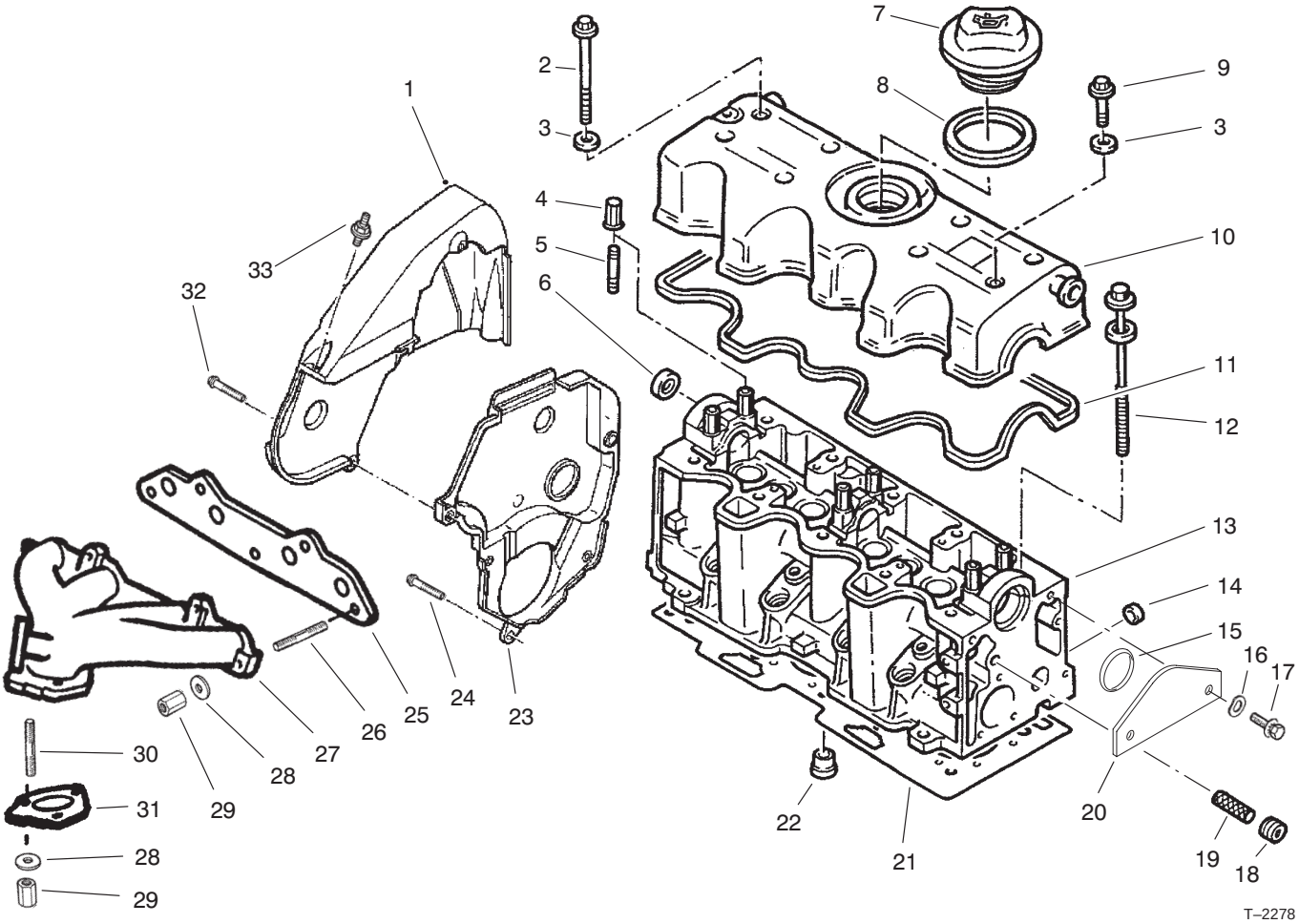
T–2277

Cylinder Block Assembly

Ref. No.	Part No.	Qty.	Description
1	74–7840	7	Plug
2	93–5659	2	Pin (Dowel–Ring)
3	93–5965	1	Asm–Cylinder Block (Incl. Ref. #9, 10, 14, 15, 17 & 18)
4	76–5690	4	Pin (Dowel–Ring)
5	93–5714	1	Piston Ring Set (77mm Dia.) (Set of 3)
†6		4	Piston
†7		4	Pin–Wrist
8	93–5656	1	Plug
9	94–3121	2	Threaded Plug
10	93–5653	2	Plug Seal
11	93–5660	3	Stud
12	93–5657	10	Screw
13	93–5658	1	Pin (Dowel)
14	100–1389	1	Plug–Drain
15	95–3026	1	Gasket–14mm Dia.
16	93–5652	1	Engine Gasket Set
■17	100–1358	4	Oil Jet
▲17	100–1359	4	Oil Jet
■18	93–5704	4	Screw
▲18	93–5680	4	Screw
*	93–5650	1	Engine–Stripped

Ref. No.	Part No.	Qty.	Description

*Not Illustrated ■For Engine Serial Numbers 600505 & Up.
†Not Serviced Separately ▲For Engine Serial Numbers 600504 & Down.

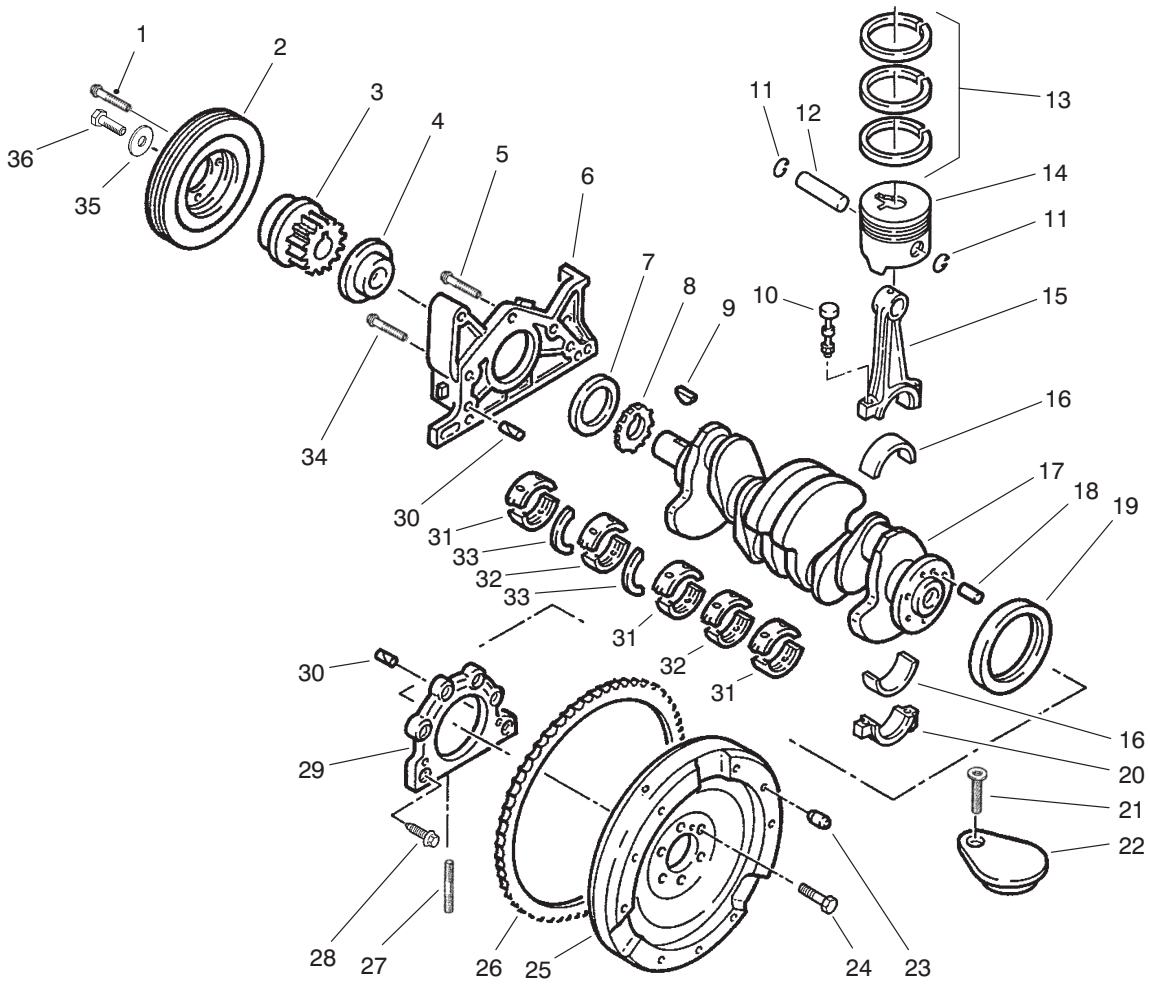


Cylinder Head Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7475	1	Upper Cover
2	93–5672	4	Screw
3	93–5667	8	Gasket
4	93–5674	6	Nut
5	94–3162	6	Stud
6	74–7840	2	Plug
7	93–5668	1	Asm–Oil Cap Filler (Incl. Ref. #8)
8	93–5666	1	Gasket
9	93–5673	4	Screw
10	93–5662	1	Cover (Incl. Ref. #11)
11	93–5665	1	Gasket
12	94–4146	10	Screw
13	93–5661	1	Cylinder Head
14	93–5669	4	Plug
15	93–5926	1	O–Ring
16	93–5928	2	Spring Washer
17	93–5927	2	Screw
18	94–3118	2	Plug
19	93–5670	1	Filter Element
20	100–1364	1	Cover Plate ASM (Incl. Ref. #15)
21	93–5947	1	Cylinder Head Gasket
22	94–4145	4	Swirl Chamber
23	98–8070	1	Lower Cover
24	95–7477	5	Screw

Ref. No.	Part No.	Qty.	Description
25	93–5894	1	Gasket
26	93–5895	5	Stud
27	93–5893	1	Exhaust Manifold
28	93–5897	8	Plate Washer
29	93–5896	8	Hexagonal Nut
30	93–5898	3	Stud
31	93–5892	1	Pipe Gasket
32	95–7479	1	Screw
33	95–7478	1	Screw
*	93–5664	1	Cylinder Head Gasket Set

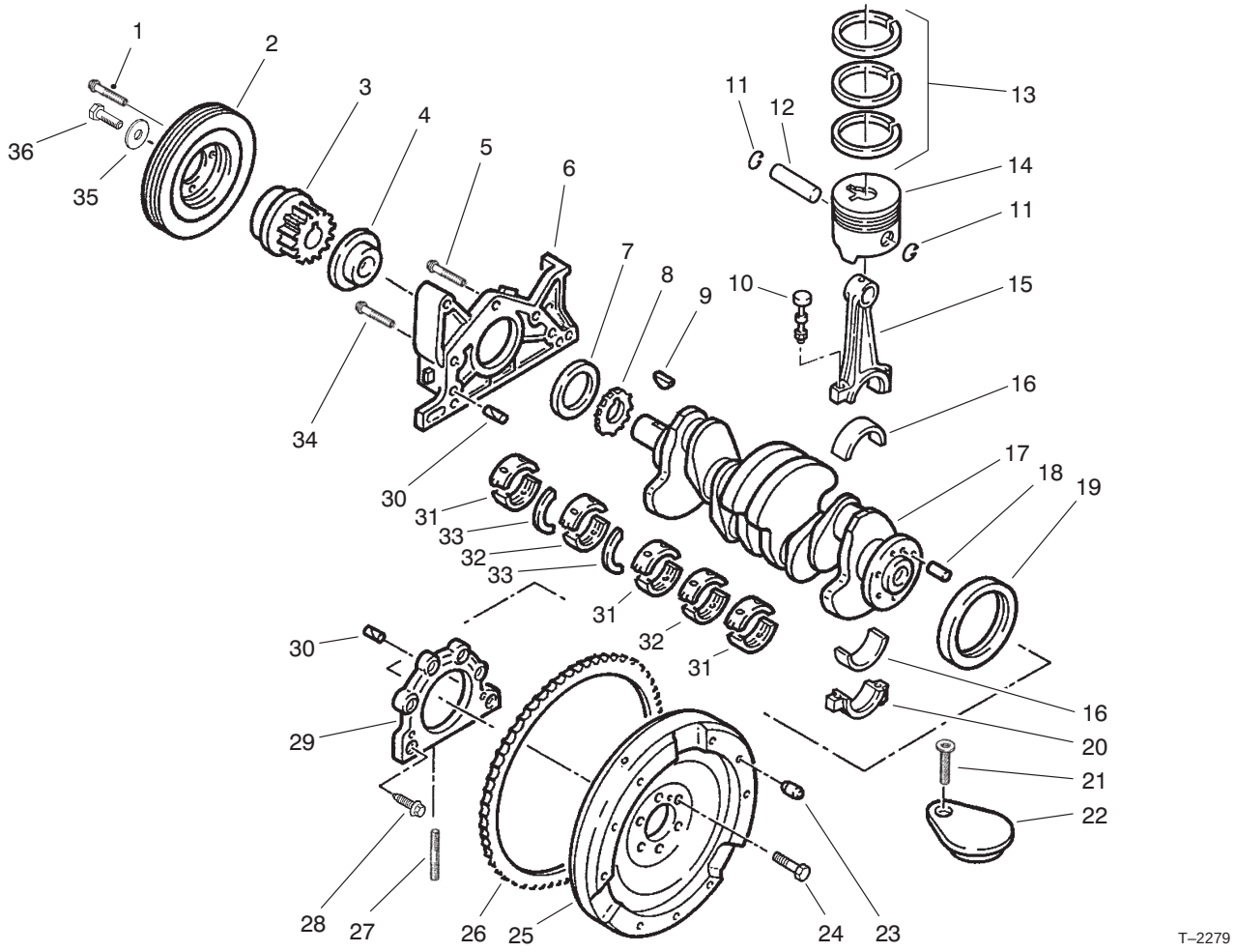
*Not Illustrated



Piston & Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
1	94–3112	4	Screw
2	98–8071	1	Crankshaft Pulley
▲3	93–5684	1	Gear–Timing
●3	100–1374	1	Gear–Timing
4	93–5699	1	Spacer
5	93–5710	2	Screw
6	93–5687	1	Gasket Plate
7	93–5701	1	Gasket
▲8	93–5698	1	Gear–Oil Pump
●8	100–1375	1	Gear–Oil Pump
9	93–5703	1	Key
10	93–5715	8	Connecting Rod Bolt
11	93–5716	8	Circlip
†12		4	Pin–Wrist
13	93–5714	4	Set Of 3 Piston Rings (77mm Dia.)
†14		4	Piston
15	93–5712	1	Set Of 4 Connecting Rods (Incl. Ref. #10 & 20)
16	93–5713	1	Set Of 8 Half Bearings (45mm Dia.)
16	95–2705	1	Set Of 8 Half Bearings (44.7mm Dia.)
17	93–5681	1	Crankshaft
18	74–8250	1	Pin
19	93–5702	1	Gasket
†20		4	Cap–Connecting Rod
21	93–5709	1	Screw
22	93–5700	1	Plug
23	93–5705	3	Pin
24	93–5708	6	Screw
■25	95–2642	1	Engine Flywheel (Incl. Ref. #26)
■26	95–2641	1	Starter Ring Gear
27	93–5707	2	Stud
28	93–5704	6	Screw
29	93–5686	1	Gasket Plate
30	100–1383	4	Pin
31	93–5688	6	Half Bearing (1.844 Thick)
*	93–5689	6	Half Bearing (1.858 Thick)
*	93–5690	6	Half Bearing (1.869 Thick)
*	95–2706	6	Half Bearing (1.994 Thick)
*	95–2707	6	Half Bearing (2.008 Thick)

*Not Illustrated ■For Engine Serial No. 549159 & Up ●For Engine Serial No. 650226 & Down.
†Not Serviced Separately ▲For Engine Serial No. 650227 & Up.

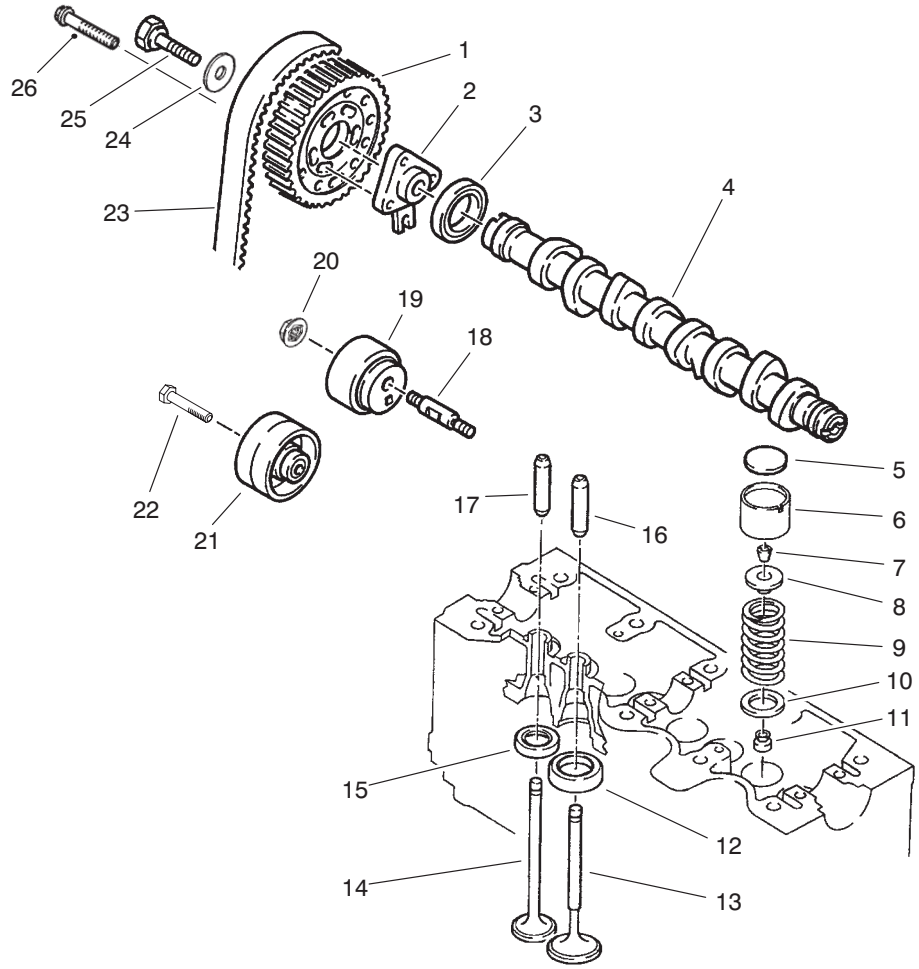


Piston & Crankshaft Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
*	95–2708	6	Half Bearing (2.019 Thick)
32	93–5691	4	Half Bearing (1.844 Thick)
*	93–5692	4	Half Bearing (1.858 Thick)
*	93–5693	4	Half Bearing (1.869 Thick)
*	95–2709	4	Half Bearing (1.994 Thick)
*	95–2710	4	Half Bearing (2.008 Thick)
*	95–2711	4	Half Bearing (2.019 Thick)
33	93–5694	2	Half Flanges (2.40 Thick)
*	93–5695	2	Half Flanges (2.50 Thick)
*	93–5696	2	Half Flanges (2.55 Thick)
*	93–5697	2	Half Flanges (2.60 Thick)
34	93–5711	3	Screw
35	74–8080	1	Plate Washer
▲36	94–3145	1	Screw–Pulley
●36	100–1376	1	Screw–Pulley

Ref. No.	Part No.	Qty.	Description
*	95–2702	1	Asm–Piston. Repair A (Incl. Ref. #11–14)
*	95–2703	1	Asm–Piston. Repair B (Incl. Ref. #11–14)
*	95–2704	1	Asm–Piston. Repair C (Incl. Ref. #11–14)

*Not Illustrated ▲For engine Serial No. 650227 & Up.
●For Engine Serial No. 650226 & Down.



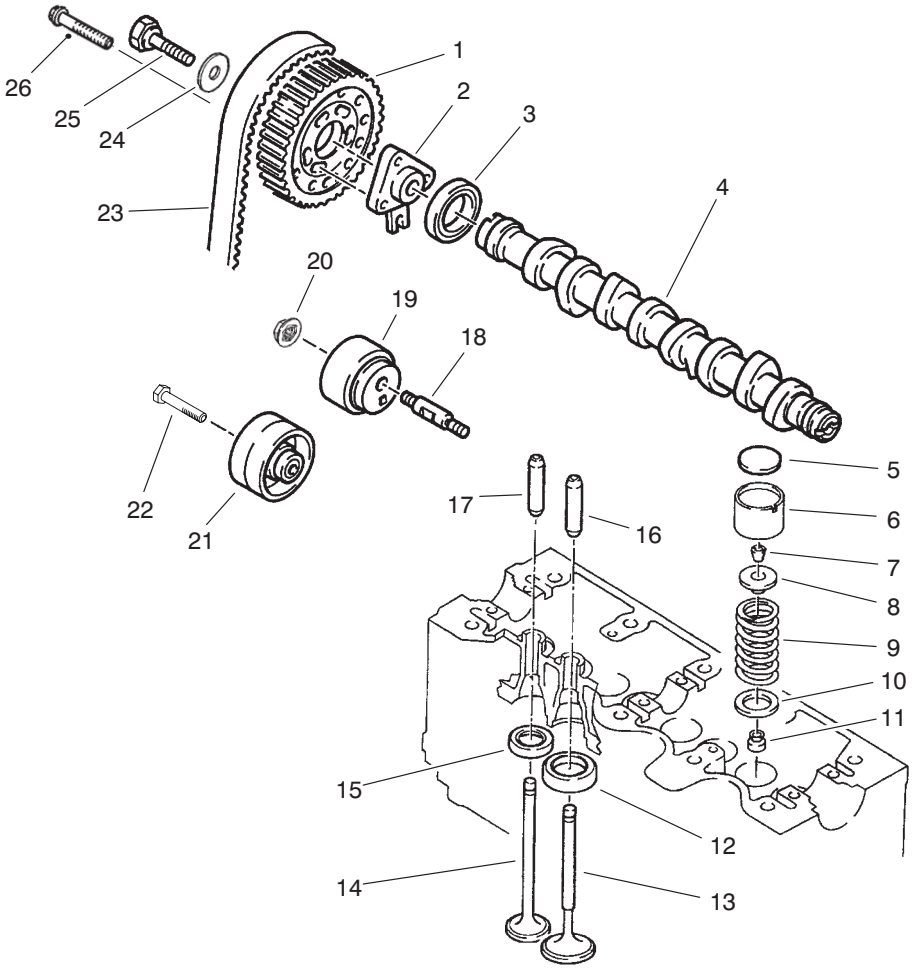
T–2280

Camshaft & Valves Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5719	1	Camshaft Gear
2	93–5723	1	Pulley Hub
3	93–5718	1	Camshaft Seal
4	93–5717	1	Camshaft
5	93–5742	8	Shim–Tappet (3.20 mm)
*	93–5743	8	Shim–Tappet (3.25 mm)
*	93–5744	8	Shim–Tappet (3.30 mm)
*	93–5745	8	Shim–Tappet (3.35 mm)
*	93–5746	8	Shim–Tappet (3.40 mm)
*	93–5747	8	Shim–Tappet (3.45 mm)
*	93–5748	8	Shim–Tappet (3.50 mm)
*	93–5749	8	Shim–Tappet (3.55 mm)
*	93–5750	8	Shim–Tappet (3.60 mm)
*	93–5751	8	Shim–Tappet (3.65 mm)
*	93–5752	8	Shim–Tappet (3.70 mm)

Ref. No.	Part No.	Qty.	Description
*	93–5753	8	Shim–Tappet (3.72 mm)
*	93–5754	8	Shim–Tappet (3.75 mm)
*	93–5755	8	Shim–Tappet (3.77 mm)
*	93–5756	8	Shim–Tappet (3.80 mm)
*	93–5757	8	Shim–Tappet (3.82 mm)
*	93–5758	8	Shim–Tappet (3.85 mm)
*	93–5759	8	Shim–Tappet (3.87 mm)
*	93–5760	8	Shim–Tappet (3.90 mm)
*	93–5761	8	Shim–Tappet (3.92 mm)
*	93–5762	8	Shim–Tappet (3.95 mm)
*	93–5763	8	Shim–Tappet (3.97 mm)
*5	93–5764	8	Shim–Tappet (4.00 mm)

*Not Illustrated



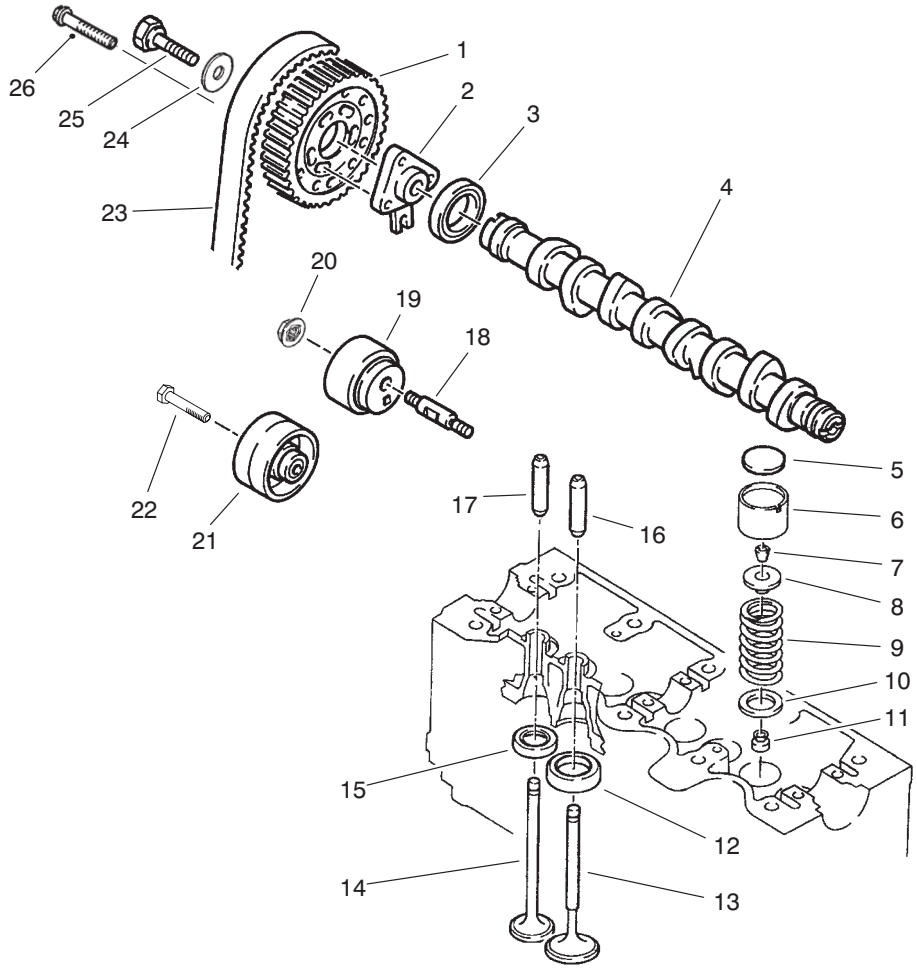
T–2280

Camshaft & Valves Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
*	93–5765	8	Shim–Tappet (4.02 mm)
*	93–5766	8	Shim–Tappet (4.05 mm)
*	93–5767	8	Shim–Tappet (4.07 mm)
*	93–5768	8	Shim–Tappet (4.10 mm)
*	93–5769	8	Shim–Tappet (4.12 mm)
*	93–5770	8	Shim–Tappet (4.15 mm)
*	93–5771	8	Shim–Tappet (4.17 mm)
*	93–5772	8	Shim–Tappet (4.20 mm)
*	93–5773	8	Shim–Tappet (4.22 mm)
*	93–5774	8	Shim–Tappet (4.25 mm)
*	93–5775	8	Shim–Tappet (4.27 mm)
*	93–5776	8	Shim–Tappet (4.30 mm)
*	93–5777	8	Shim–Tappet (4.32 mm)

Ref. No.	Part No.	Qty.	Description
*	93–5778	8	Shim–Tappet (4.35 mm)
*	93–5779	8	Shim–Tappet (4.37 mm)
*	93–5780	8	Shim–Tappet (4.40 mm)
*	93–5781	8	Shim–Tappet (4.42 mm)
*	93–5782	8	Shim–Tappet (3.45 mm)
*	93–5783	8	Shim–Tappet (4.47 mm)
*	93–5784	8	Shim–Tappet (4.50 mm)
*	93–5785	8	Shim–Tappet (4.52 mm)
*	93–5786	8	Shim–Tappet (4.55 mm)
*	93–5787	8	Shim–Tappet (4.57 mm)
*	93–5788	8	Shim–Tappet (4.60 mm)
*	93–5789	8	Shim–Tappet (4.62 mm)

*Not Illustrated



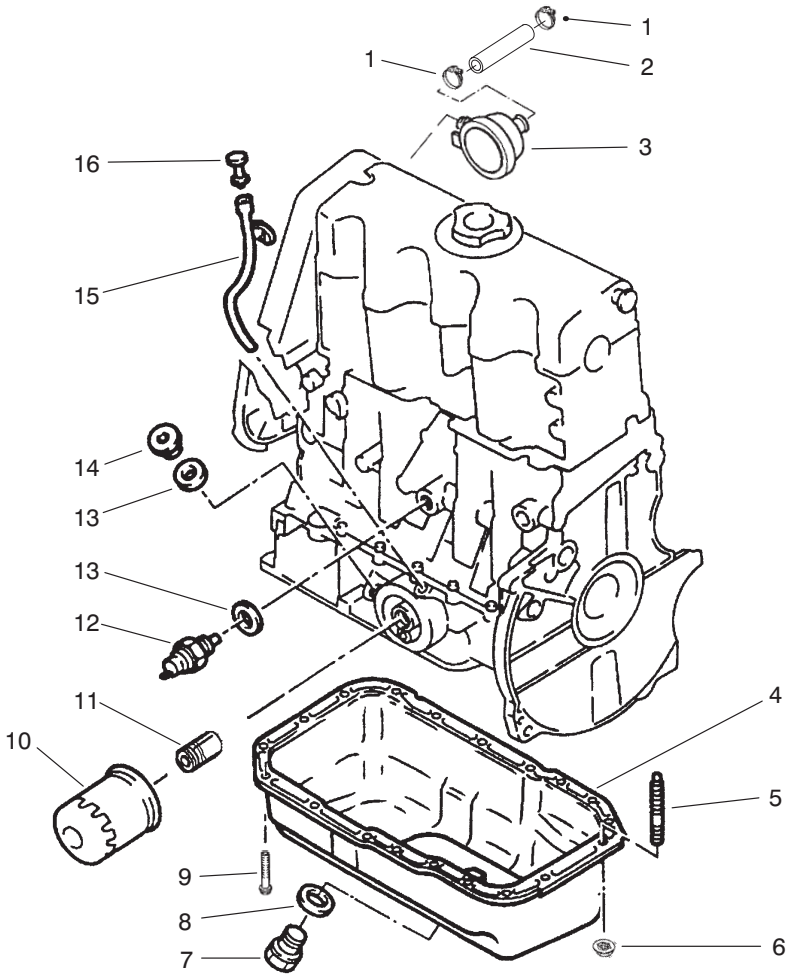
T–2280

Camshaft & Valves Assembly (Continued)

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

Ref. No.	Part No.	Qty.	Description
10	93–5741	8	Flat Washer
11	100–1367	8	Valve Seal
12	93–5739	4	Inlet Seat Valve
13	93–5730	4	Intake Valve
14	93–5731	4	Exhaust Valve
15	93–5740	4	Outlet Seat Valve
16	93–5737	4	Inlet Valve Guide
17	93–5738	4	Outlet Valve Guide
18	93–5724	1	Tensioner Spindle
19	100–1360	1	Tensioner
20	93–5729	1	Nut
21	100–1363	1	Kit–Roller (Incl. Ref. #22)
22	93–5726	1	Screw
23	93–5720	1	Cogged Belt
24	93–5728	1	Plate Washer
25	93–5725	1	Pulley Screw
26	93–5851	3	Screw

*Not Illustrated

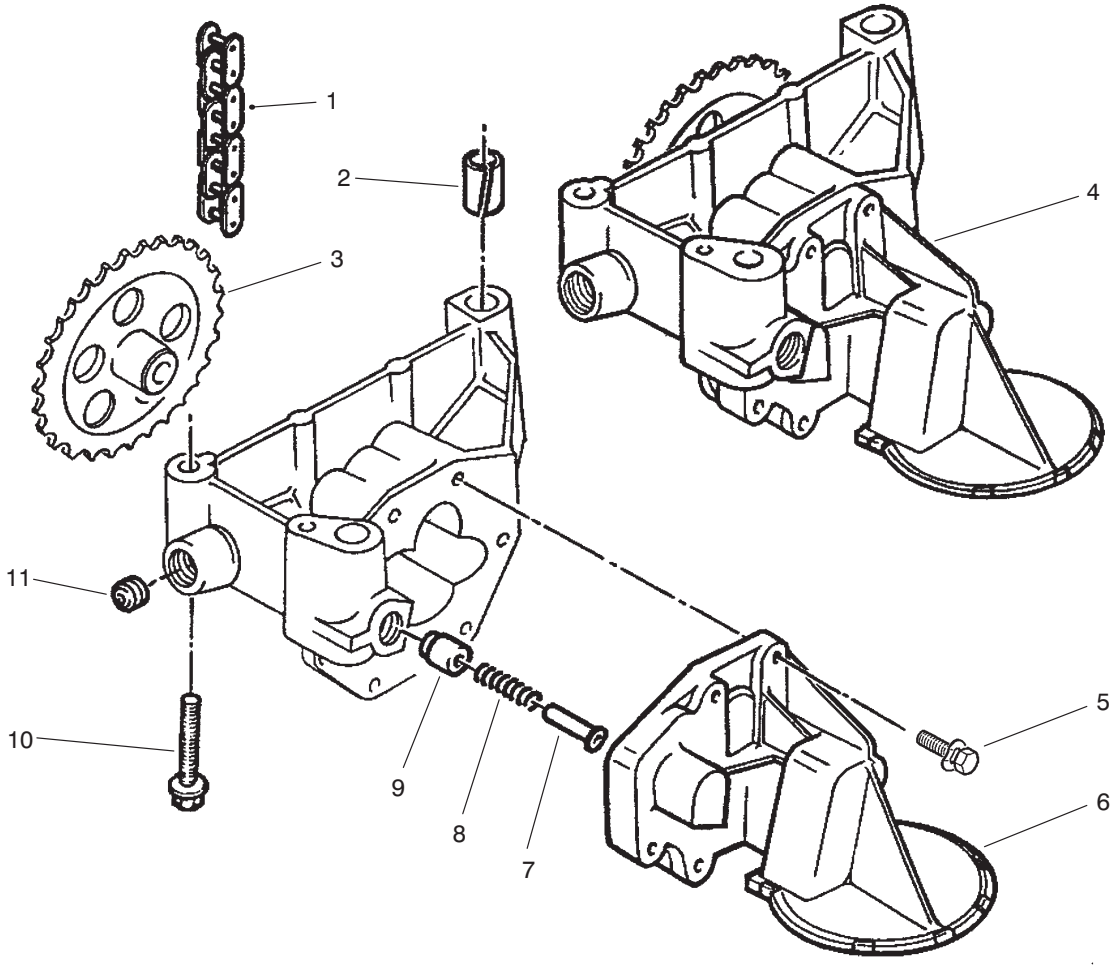


T–2281

Oil System Assembly

Ref. No.	Part No.	Qty.	Description
1	2412–36	2	Clamp
2	93–5817	1	Union
3	93–5816	1	Regulator
4	93–5810	1	Oil Sump
5	93–5660	3	Stud
6	93–5815	3	Nut
7	74–7310	1	Drain Plug
8	74–7320	1	Gasket
9	93–5704	16	Screw
10	74–7970	1	Oil Filter–Service
11	93–5809	1	Adaptor
12	94–3180	1	Pressure Switch
13	93–5814	2	Gasket
14	93–5813	1	Threaded Plug
15	93–5811	1	Dipstick Guide
16	93–5812	1	Oil Dipstick

Ref. No.	Part No.	Qty.	Description



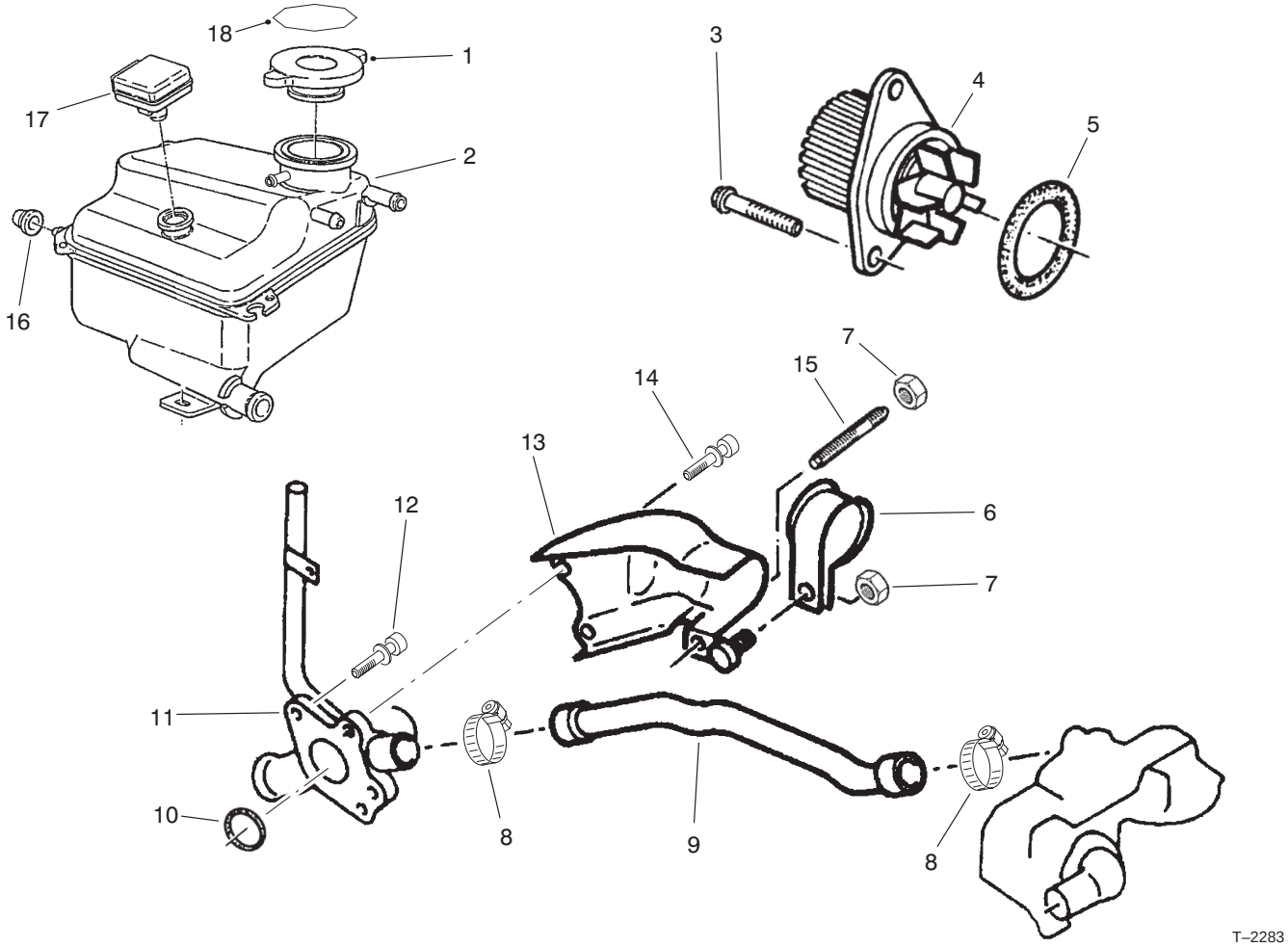
T–2282

Oil Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5804	1	Oil Pump Chain
2	93–5658	1	Pin
†3		1	Gear–Drive
4	93–5801	1	Oil Pump (Incl. Ref. #3)
5	93–5807	6	Screw
6	93–5802	1	Strainer
7	93–5806	1	Shaft
8	93–5805	1	Spring
9	94–3176	1	Plunger
10	93–5803	3	Screw
11	94–3177	1	Plug

Ref. No.	Part No.	Qty.	Description

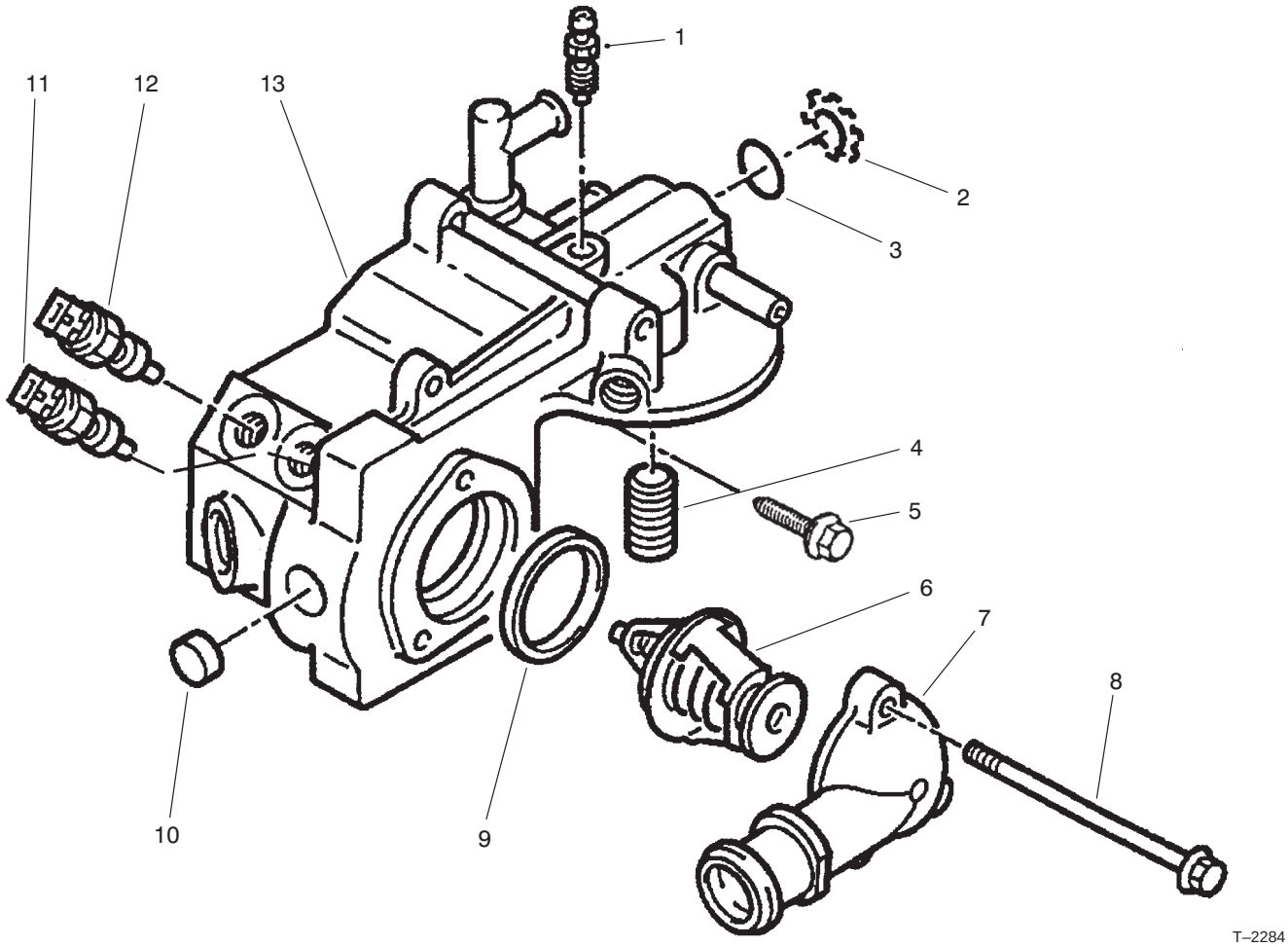
†Not Serviced Separately



Coolant System Assembly

Ref. No.	Part No.	Qty.	Description
1	94–2800	1	Pressure Plug
1	66–3240	1	Cap–Radiator (Europe)
2	98–1805	1	Degassing Box
3	94–3163	2	Screw
4	100–1366	1	Water Pump
5	93–5822	1	O–Ring
6	93–5826	1	Clip
7	94–3267	2	Nut
8	2412–129	2	Clamp
9	93–5824	1	By–pass Union
10	93–5821	1	O–Ring
11	93–5819	1	Water Inlet
12	93–5823	2	Screw
13	93–5825	1	Heat Shield
14	93–5827	2	Screw
15	93–5660	1	Stud
16	94–2801	2	Grommet
17	94–9984	1	Water Level Sensor
18	93–7840	1	Decal–Radiator (Europe)

Ref. No.	Part No.	Qty.	Description



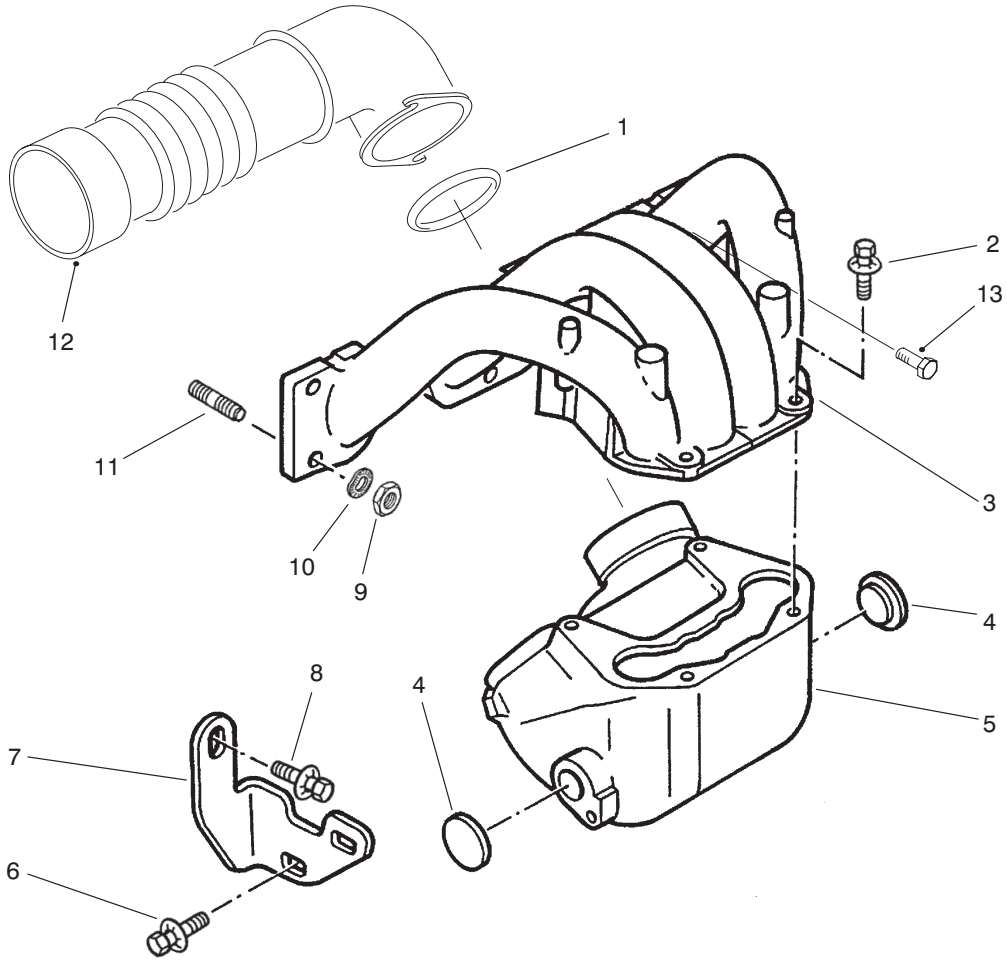
T–2284

Coolant Outlet Box Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5835	1	Bleed Screw
2	93–5840	1	Washer
3	93–5838	2	O–Ring
4	93–5836	1	Insert
5	93–5807	1	Screw
6	93–5831	1	Thermostat
7	94–9197	1	Cover
8	93–5839	4	Screw
9	93–5837	1	Water Box Gasket
10	93–5833	1	Plug (10.25mm Dia)
*	93–5834	2	Plug (14.5mm Dia)
11	94–3211	1	Thermoswitch
12	93–5832	1	Sender
13	93–5829	1	Water Outlet Box

Ref. No.	Part No.	Qty.	Description

*Not Illustrated



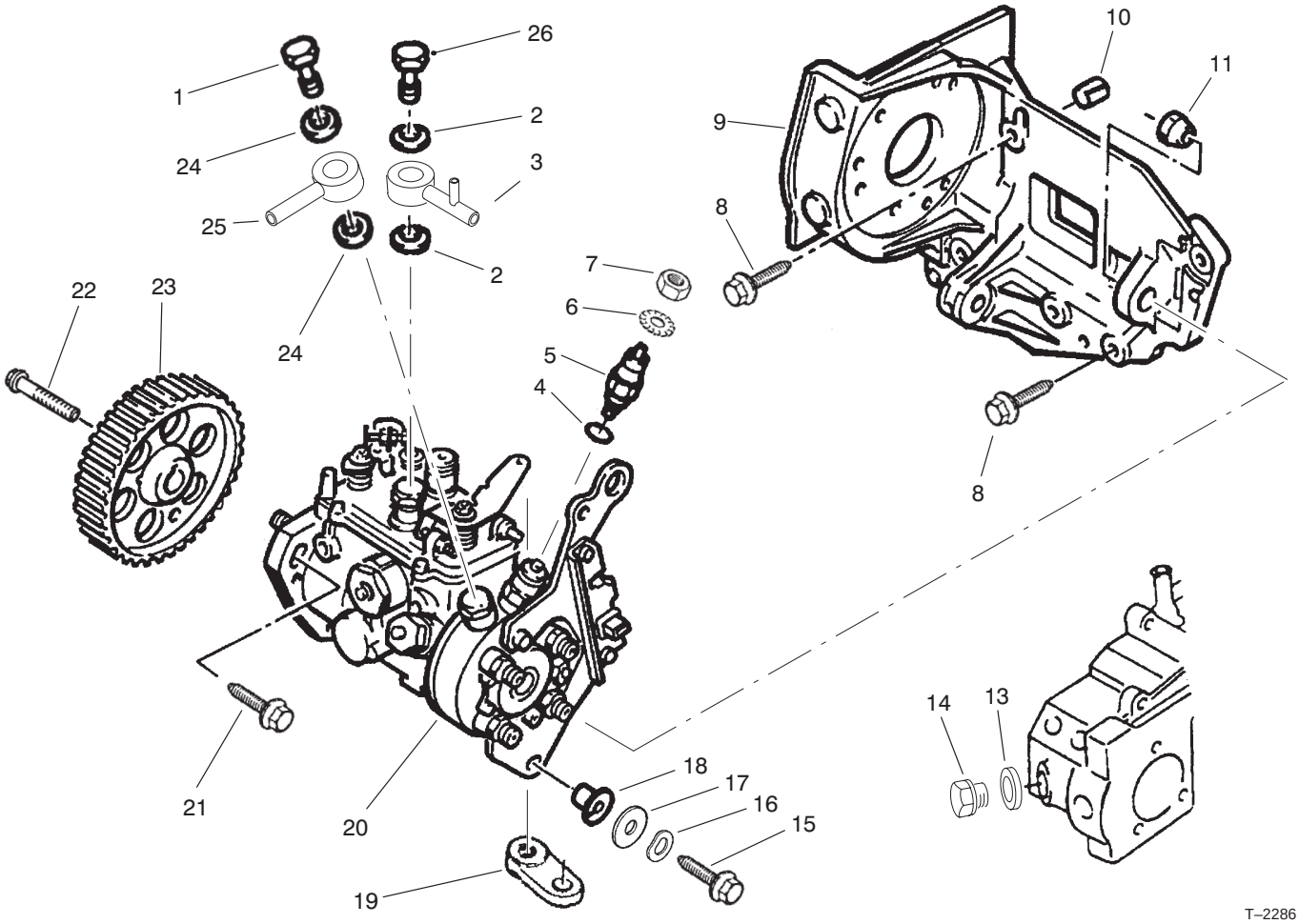
T–2285

Intake Manifold Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5841	1	O–Ring
2	93–5847	4	Screw
3	93–5843	1	Intake Manifold
4	93–5656	2	Plug
5	93–5844	1	Air Divider
■6	94–3161	2	Screw
▲6	94–3161	6	Screw
7	93–5845	1	Bracket
8	94–3131	1	Screw
■9	94–3165	6	Nut
▲9	94–3165	2	Nut
▲10	94–3164	6	Spring Washer
■10	94–3164	2	Spring Washer
▲11	93–5846	6	Stud
11	93–5846	2	Stud
12	93–5842	1	Air Union
13	94–9196	1	Screw

Ref. No.	Part No.	Qty.	Description

▲For Engine Serial No. 655961 & Down.
■For Engine Serial No. 655962 & Up.



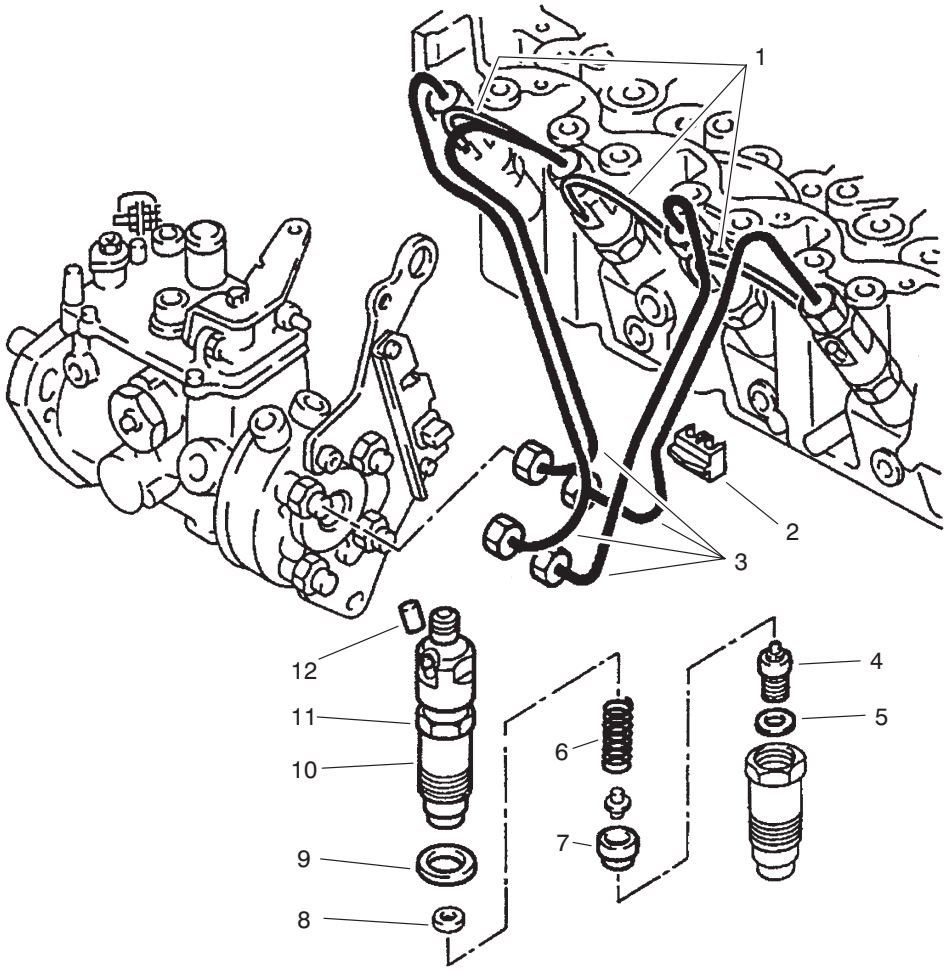
T–2286

Injection Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	94–4111	1	Union Screw–Inlet
2	74–8870	2	Gasket
3	95–1690	1	Outlet Union
4	94–3274	1	O–Ring
5	98–8806	1	Solenoid Valve
6	74–8710	1	Washer
7	48–7880	1	Nut
8	93–5852	5	Screw (35mm)
*	93–5853	1	Screw (45mm)
9	93–5849	1	Injection Pump Bracket
10	93–5659	2	Pin
11	94–3165	1	Hexagonal Nut
13	94–3122	1	Gasket
14	94–3121	1	Plug
15	94–3221	1	Screw
16	94–3164	1	Spring Washer
17	93–5855	1	Plate Washer
18	93–5909	1	Ring
19	74–8650	1	Journal
20	93–5848	1	Injection Pump
21	93–5854	3	Screw
22	93–5851	3	Screw
23	93–5719	1	Injection Pump Gear
24	74–8680	2	Gasket
25	93–5857	1	Inlet Union

Ref. No.	Part No.	Qty.	Description
26	94–3250	1	Union Screw–Outlet

*Not Illustrated



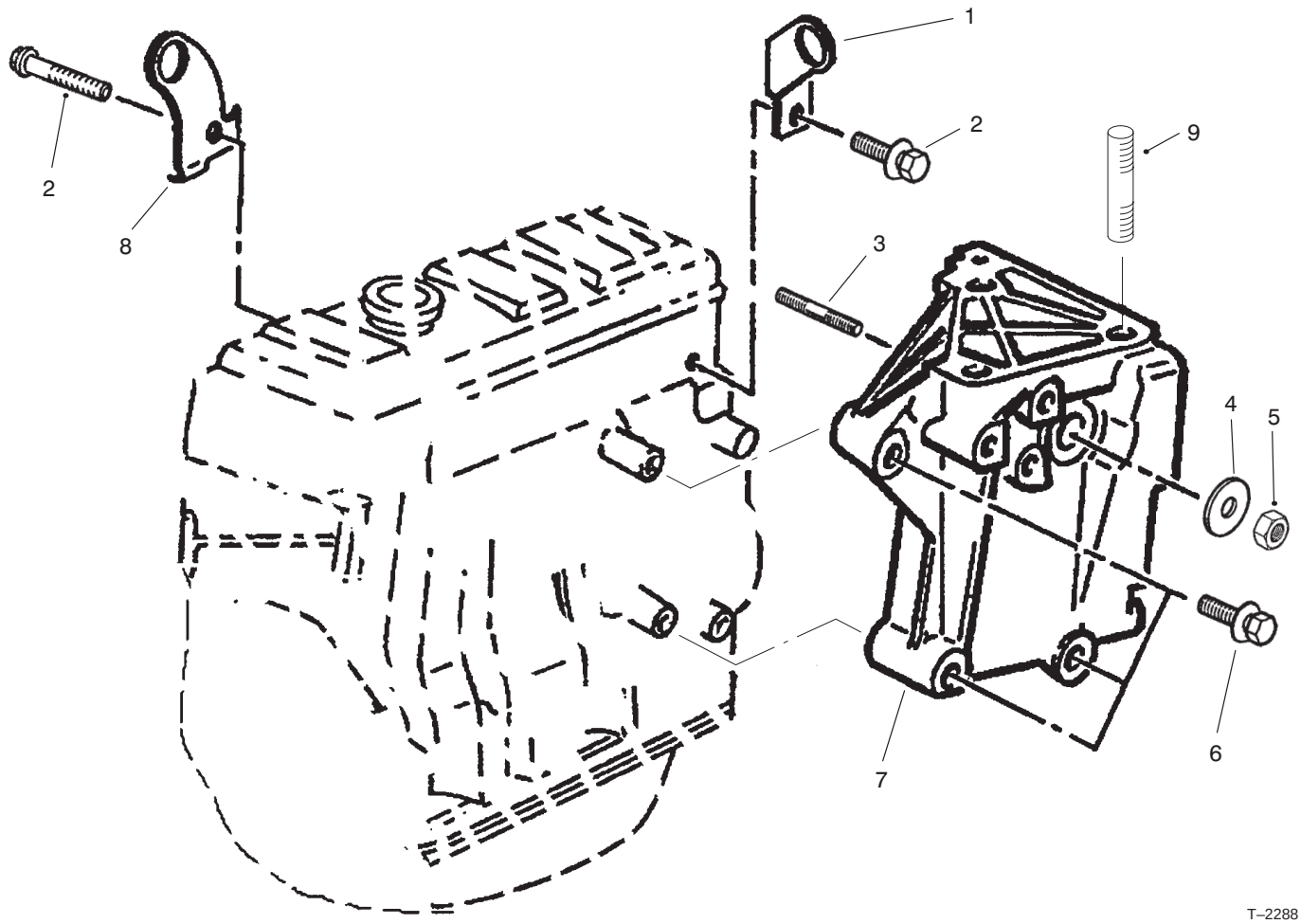
T–2287

Fuel Injector & Plumbing Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5862	3	Union
*	93–5863	1	Union
2	94–3231	4	Bracket
3	93–5861	1	Pipes Harness
4	93–5860	4	Injector
5	93–5867	4	Injector Gasket
6	93–5864	4	Spring
7	93–5865	4	Spacer
8	93–5869	1	Shim (.680 mm)
*	93–5870	1	Shim (.720 mm)
*	93–5871	1	Shim (.760 mm)
*	93–5872	1	Shim (.800 mm)
*	93–5873	1	Shim (.840 mm)
*	93–5874	1	Shim (.880 mm)
*	93–5875	1	Shim (.920 mm)
*	93–5876	1	Shim (.960 mm)
*	93–5877	1	Shim (1.000 mm)
*	93–5878	3	Shim (1.035 mm)
*8	93–5879	1	Shim (1.065 mm)
*	93–5880	1	Shim (1.095 mm)
*	93–5881	1	Shim (1.125 mm)
*	93–5882	1	Shim (1.155 mm)
*	93–5883	1	Shim (1.185 mm)
*	93–5884	1	Shim (1.215 mm)
*	93–5885	1	Shim (1.245 mm)
*	93–5886	1	Shim (1.280 mm)

Ref. No.	Part No.	Qty.	Description
*	93–5887	1	Shim (1.320 mm)
*	93–5888	1	Shim (1.400 mm)
*	93–5889	1	Shim (1.480 mm)
*	93–5890	1	Shim (1.560 mm)
*	93–5891	1	Shim (1.640 mm)
9	93–5866	4	Injector Gasket
10	93–5868	4	Injector + Injector Holder
11	94–4147	4	Injector Holder
12	74–8770	1	Plug

*Not Illustrated

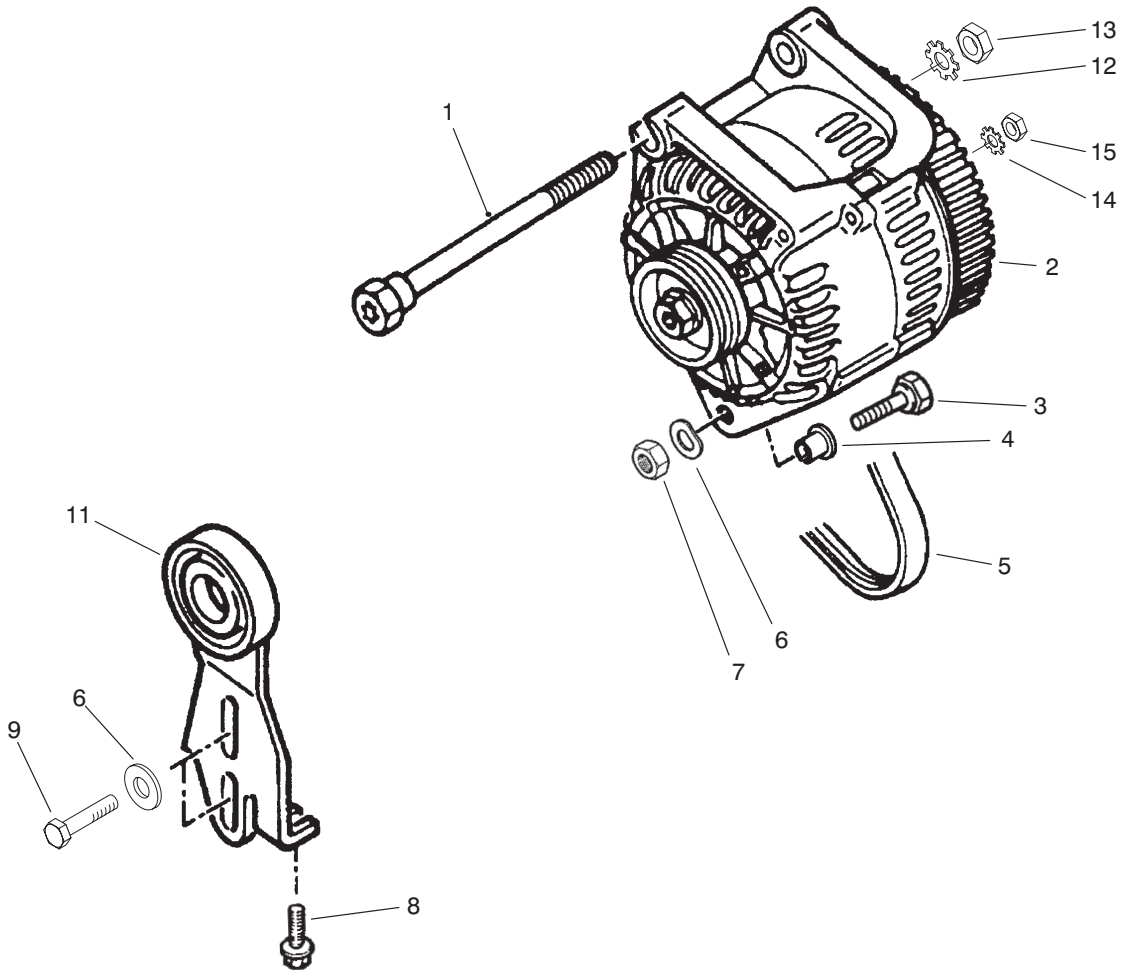


T–2288

Engine Mount Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5901	1	Lifting Bracket
2	93–5906	4	Screw
3	93–5905	1	Stud
4	93–5904	1	Plate Washer
5	93–5903	1	Hexagonal Nut
6	93–5902	3	Screw
7	93–5899	1	Right Hand Engine Mount
8	74–7570	1	Lifting Bracket
9	93–5900	1	Stud

Ref. No.	Part No.	Qty.	Description

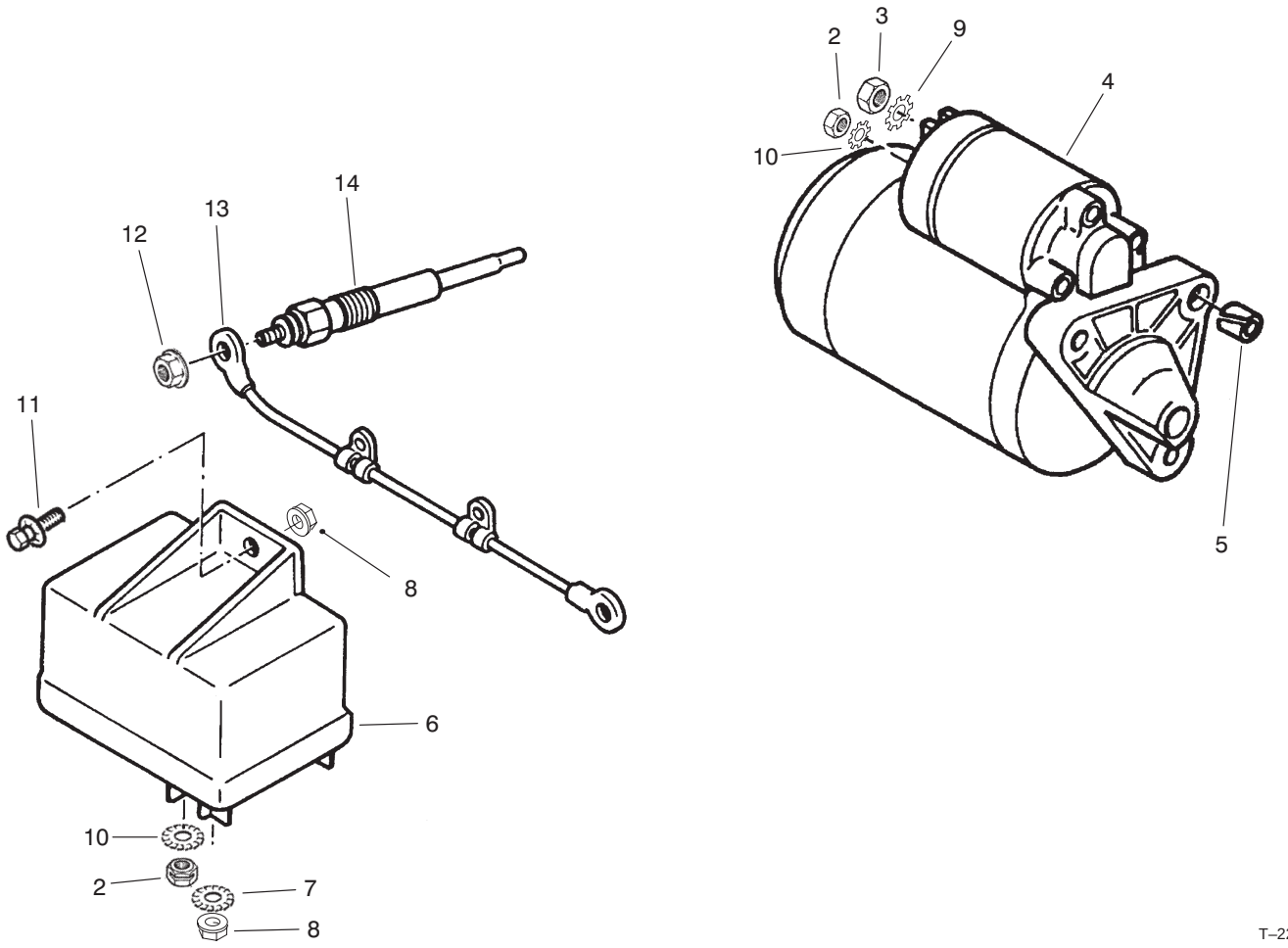


T–2289

Alternator Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5908	1	Screw
2	93–5907	1	Alternator
3	94–3221	1	Screw
4	93–5909	1	Ring
5	93–5912	1	Belt
6	33094–00	3	Washer–Flat
7	33024–00	1	Nut–Hex.
8	93–5911	1	Screw
9	33114–020	2	Screw–HH
11	93–5910	1	Tensioner
12	3255–8	1	Washer–Lock
13	33004–00	1	Nut–Hex.
14	3255–10	1	Washer–Lock
15	48–7880	1	Nut–Hex.

Ref. No.	Part No.	Qty.	Description

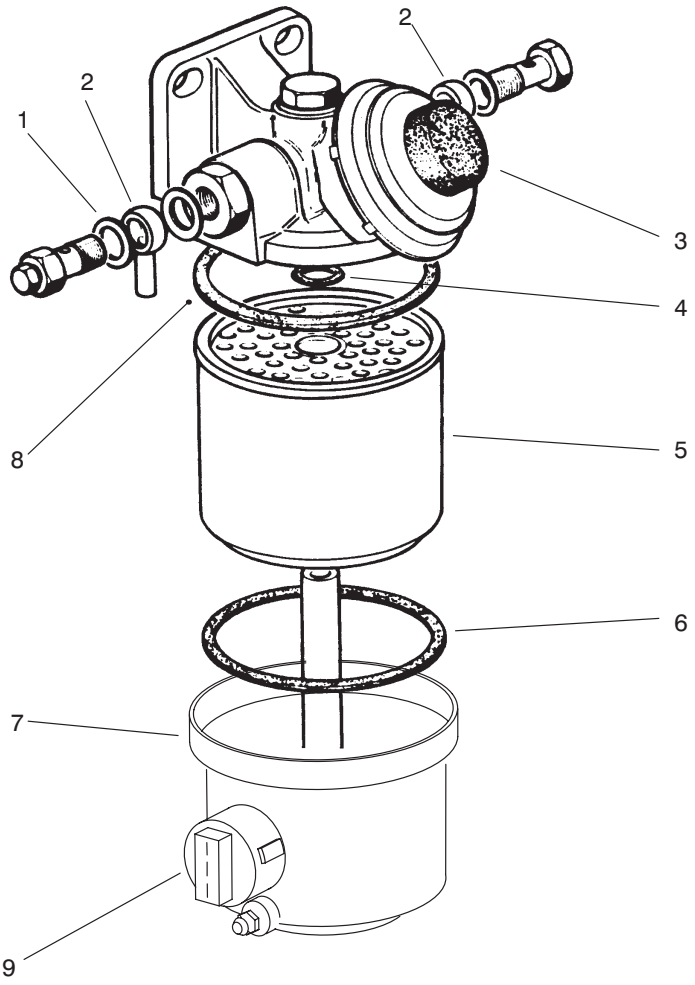


T–2290

Starter & Glow Plugs Assembly

Ref. No.	Part No.	Qty.	Description
2	48–7880	2	Nut
3	33004–00	1	Nut–HF
4	95–2460	1	Starter
5	93–5917	1	Pin
6	93–5923	1	Preheating Unit
7	3255–7	1	Washer–Lock
8	33003–00	2	Nut–HF
9	3255–8	1	Washer–Lock
10	3255–10	2	Washer–Lock
11	33113–020	1	Screw–HH
12	48–7870	4	Nut
13	93–5922	1	Cable
14	93–5921	4	Glow Plug

Ref. No.	Part No.	Qty.	Description



T–0966

Fuel Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	76–5180	4	Washer–Copper
2	76–5190	2	Fitting–Adjustable
3	76–5300	1	Asm–Filter, Fuel (Incl. Ref. #7 & 9)
4		1	O–Ring
5	76–5220	1	Element–Filter (Incl. Ref. #4, 6 & 8)
6		1	Seal–Gasket
7		1	Cap–Filter, Fuel
8		1	Seal–Gasket
9	76–5320	1	Sensor–Water

Ref. No.	Part No.	Qty.	Description

Maintenance Record

Date								


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