Form No. 3327–859 REV A

4700–D

Groundsmaster® Traction Unit

Model No. 30868—220000001 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.

© The TORO Company — 2002
All Rights Reserved

Contents

Description	Page
Hood Screen and Bumper Assembly	4
Steering Tower Assembly	6
Traction and Brake Pedal Assembly	9
Control Console Assembly	11
Hydraulic Filter and ReservoirAssembly	12
Fuel Tank and Filter Assembly	13
Front Drive and Brake Assembly	14
Planetary Assembly No. 105–4500–03	15
LH Brake Assembly No. 100–3070	16
Piston Motor Assembly No. 105–1218	17
RH Brake Assembly No. 100–3069	18
Manifold Mounting and Fitting Assembly	19
Hydraulic Pump Assembly	20
Triple Pump Assembly No. 105–9845	21
Piston Pump Assembly No. 105–9846	22
Control Assembly No. 93–6306	23
Radiator Assembly	24
Fan and Solenoid Assembly	25
Engine Installation Assembly	26
Air Cleaner Assembly No. 99–5410	27
Rear Axle Assembly	28
Cylinder Assembly No. 105–9861	29
Piston Motor Assembly No. 105–1219	30
Coupler Spacer and Adapter Plate Assembly	31
Battery Installation Assembly	32
Water and Fuel Filter Assembly No. 98–9305	33
Front Lift Arm Assembly	34
No. 4 and 5 Lift Cylinder Assembly No. 104–5527	35
No. 1 Lift Cylinder Assembly No. 104–5528	36
Lift Lever Assembly	37
No. 2 and 3 Lift Arm Assembly	38
No. 2 and 3 Lift Cylinder Assembly No. 104–5526	39
Hose Installation Assembly	40
No. 1, 4 and 5 Hose Installation Assembly	41
Hydraulic Motor Assembly No. 105–9820	42
No. 6 and 7 Hose Instalation Assembly	43
No. 6 and 7 Lift Arm Assembly	44
Hydraulic Cylinder Assembly No. 104–5592	45
Roll–Over–Protection System and Frame Assembly	46
Front Frame Assembly No. 104–5469	47
Roller Support and Access Panel Assembly	48
Cutting Manifold Assembly	49
Manifold Assembly No. 104–5477	50
4 Wheel Drive Manifold and Filter Assembly	51
Filter Manifold Assembly No. 100–5558	52
4 Wheel Drive Manifold Assembly No. 104–5496	53
Hydraulic Traction Line Assembly	54
Hydraulic Mow Line Assembly	55
Hydraulic Steering Line Assembly	56

Description	Page
Hydraulic Lift Line Assembly	57
Lift Valve and Counter Balance Assembly	58
Manifold Assembly No. 104–5497	59
3 Spool Valve Assembly No. 105–9843	60
Rear Axle Assembly No. 100–3784 Bevel Pinion Shaft Assembly	61
Rear Axle Assembly No. 100–3784 (Continued) Differential Assembly	62
Rear Axle Assembly No. 100–3784 (Continued) Axle Support Assembly	63
Rear Axle Assembly No. 100–3784 (Continued) Bevel Gear Case Assembly	64
Rear Axle Assembly No. 100–3784 (Continued) Bevel Gear Shaft Assembly	65
Rear Axle Assembly No. 100–3784 (Continued) Axle Case Assembly	66
Rear Axle Assembly No. 100–3784 (Continued) Axle Assembly	67
Electrical Schematic	68
Hydraulic Schematic	69
Crankcase Assembly	70
Oil Pan Assembly	71
Cylinder Head Assembly	72
Gear Case Assembly	73
Head Cover Assembly	74
Oil Filter Assembly	75
Dipstick and Guide Assembly	76
Oil Pump Assembly	77
Breather Assembly	78
Main Bearing Case	79
Camshaft and Idler Gear Shaft Assembly	80
Piston and Crankshaft Assembly	81
Flywheel Assembly	82
Fuel Camshaft and Governor Shaft Assembly	83
Engine Stop Lever Assembly	84
Injection Pump Assembly	85
Injection Pump Component Parts Assembly	86
Governor Assembly	87
Speed Control Plate Assembly	88
Nozzle Holder and Glow Plug Assembly	89
Fuel Filter	90
Alternator and Pulley Assembly	91
Alternator Component Parts Assembly	92
Starter Assembly	93
Starter Component Parts Assembly	94
Oil Switch / Thermometer and Plug Assembly	95
Water Flange and Thermostat Assembly	96
Water Pump Assembly	97
Water Pipe Assembly	98
Fan Assembly	99
Valve and Rocker Arm Assembly	100
Inlet Manifold Assembly	101

Contents (Continued)

Description	Page
Exhaust Manifold Assembly	102
Turbo Charger Assembly	103
Oil Pipe (Turbo Charger) Assembly	104
Oil Cooler Assembly	105
Muffler Gasket and Glow Controller	106
Operators Manual	107
Gasket Kit	108

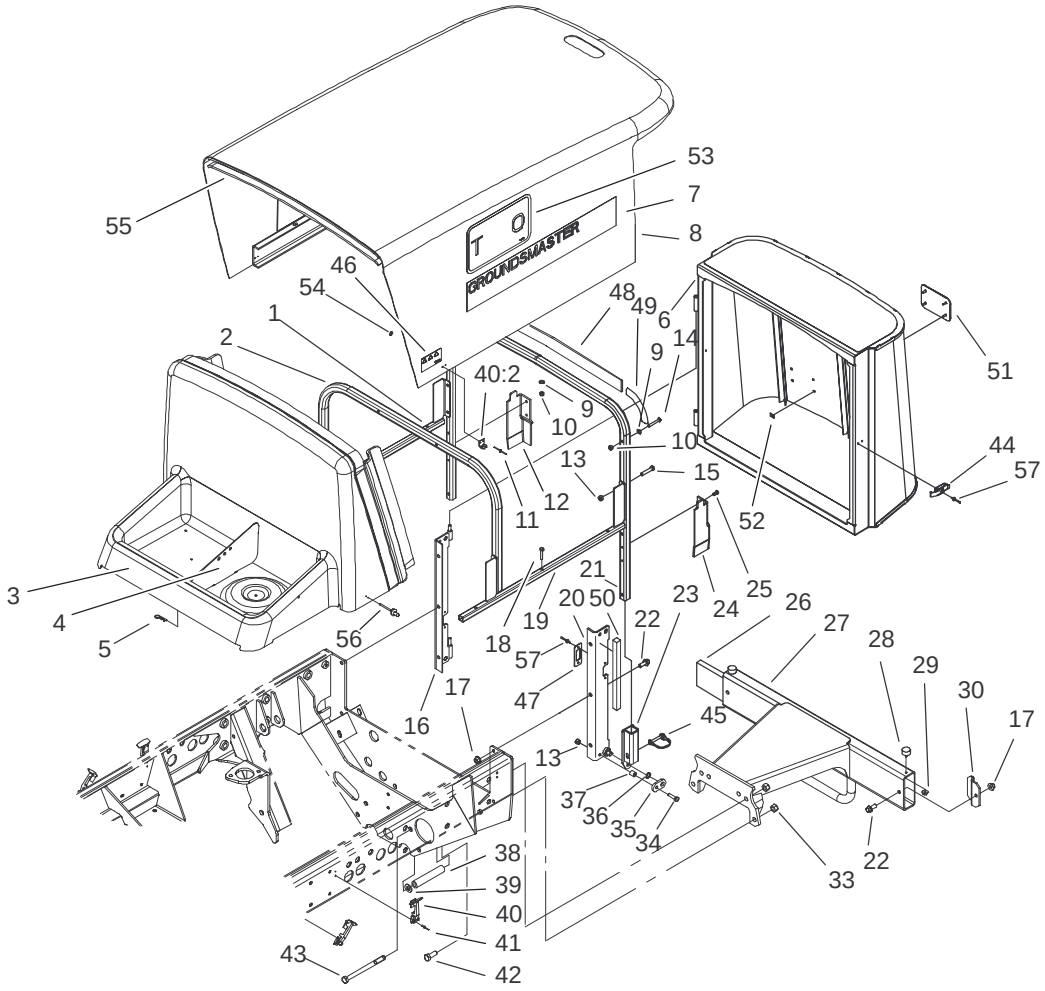
Accessories

Description	Model / Part No.
27in Contour Plus Replacement Deck	30827
Mulching Kit for the 27in Rotary Cutting Unit	30828
Standard Suspension Kit	30395
Milsco Seat Kit	30398
Armrest Kit	30707

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
HYD	hydraulic
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

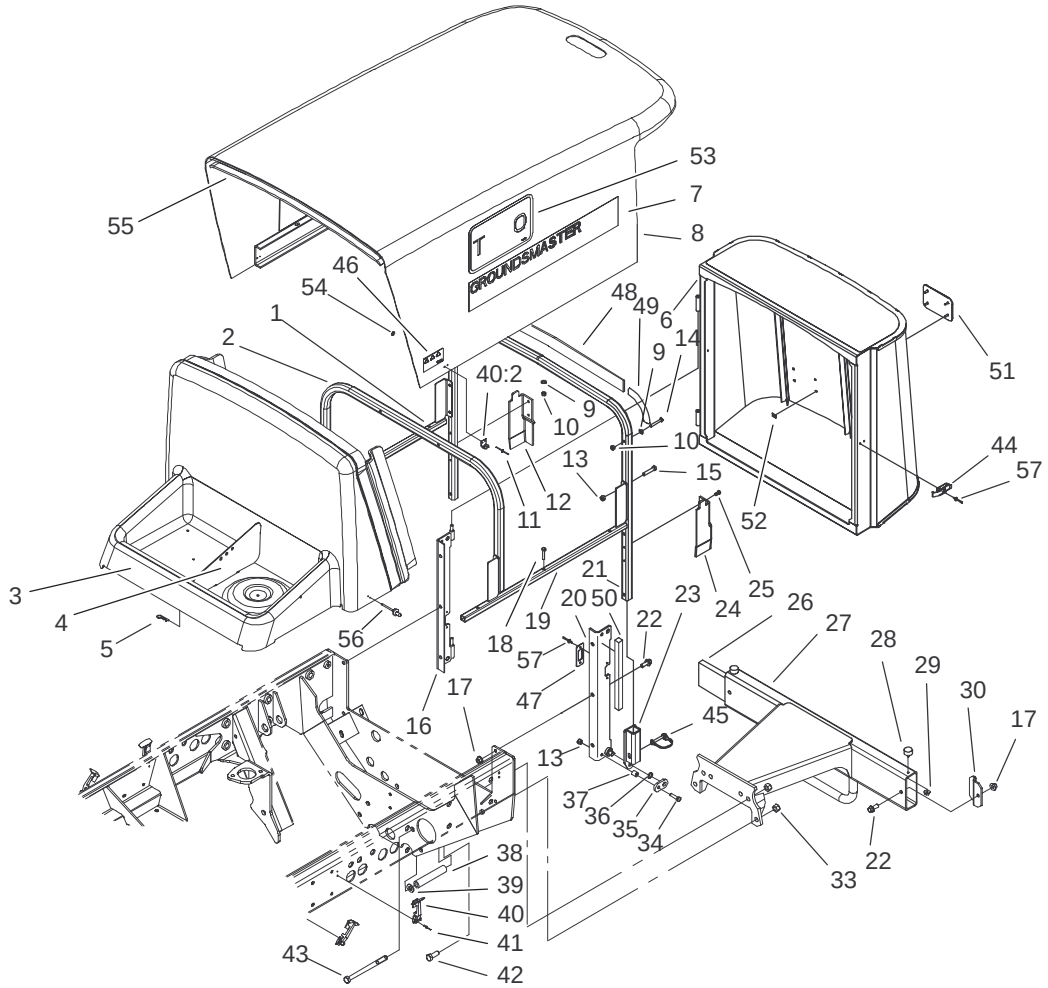


Sheet No.:2

Hood Screen and Bumper Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5437–03	1	Tube–Hood Frame, LH
2	104–5434–03	1	Tube–Front, Hood
3	104–5430	1	Shroud–Front
4	104–5446–03	1	Divider–Shroud
5	3290–467	2	Pin–Hair
6	104–5454–03	1	Screen ASM
7	104–5491	2	Decal
8	104–5419	1	Hood
9	3256–22	12	Washer–Flat
10	3296–42	12	Nut–Lock, NI
11	3269–17	4	Rivet–Pop
12	104–5431	1	Cover–Tube, RH
13	3296–29	10	Nut–Lock, NI
14	321–10	6	Screw–HH
15	322–9	8	Screw–HH
16	104–5445–03	1	RH Support ASM
17	32128–43	4	Nut–Flange
18	321–13	6	Screw–HH
19	104–5438–03	1	Tube–Hood Frame, RH
20	104–5444–03	1	LH Support ASM
21	104–5435–03	1	Tube–Rear, Hood
22	3234–11	4	Screw–HHF
23	104–5440–03	2	Hood Receiver ASM
24	104–5432	1	Cover–Tube, LH
25	32104–17	4	Screw–HH

Ref. No.	Part No.	Qty.	Description
26	105–9199–03	1	Weight–Bumper
27	105–9221–03	1	Rear Bumper ASM
28	240–14	2	Bumper–Rubber
29	32128–33	5	Nut–HF
30	105–9200–03	2	Clamp–Weight, Bumper
33	3296–23	4	Nut–Lock, NI
34	322–17	2	Screw–HH
35	104–5450	2	Retainer–Hood Receiver
36	3290–221	2	Washer–Spring
37	104–5451	2	Spacer–Hood Receiver
38	76–8350	2	Stop–Axle
39	3256–26	2	Washer–Flat
40	59–9740	4	Flex Draw Latch ASM
40:2	249–40	1	Keeper
41	3290–55	8	Rivet–Pop
42	325–6	2	Screw–HH
43	325–33	2	Screw–HH
44	105–3912	1	Latch–Draw
45	105–9245	2	Pin–Lock
46	100–6574	2	Decal–Warning
47	104–5459	1	Plate–Latch
48	105–9234	1	Seal–Foam
49	105–9237	2	Seal–Foam

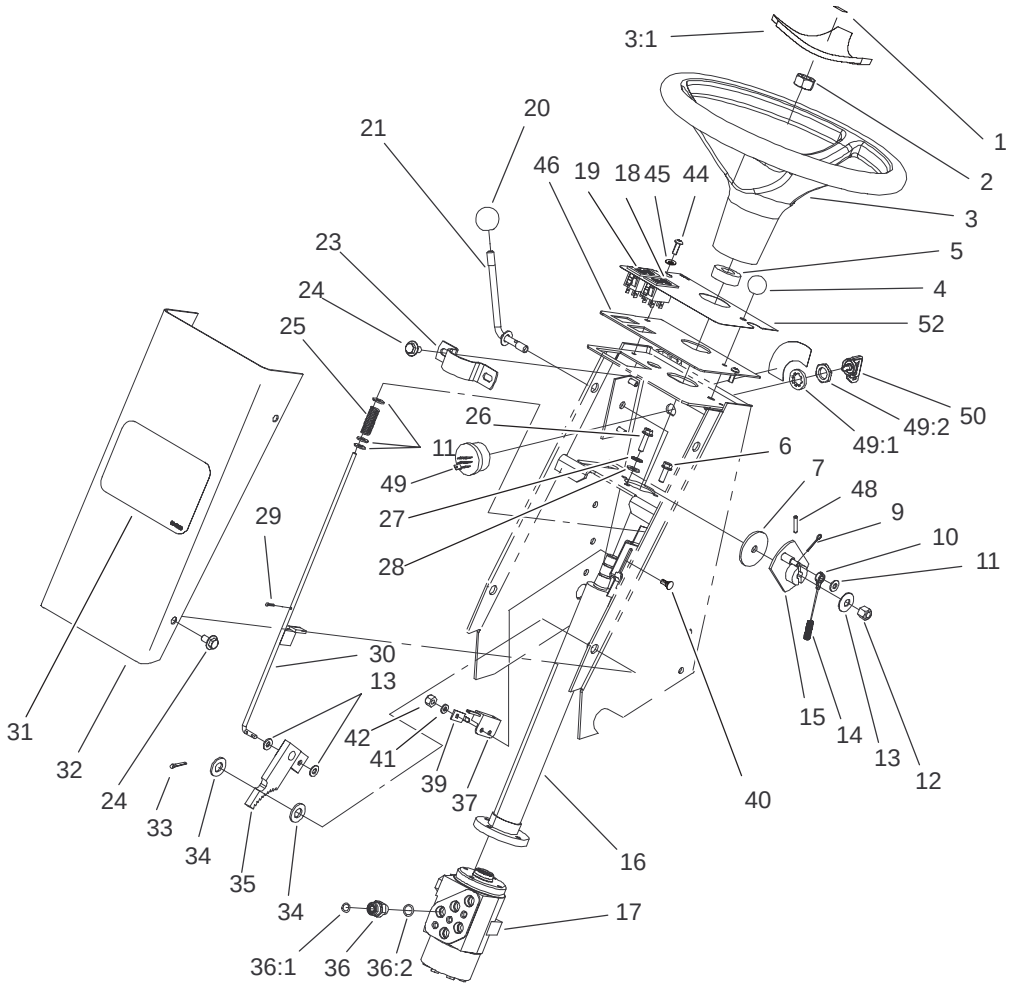


Sheet No.:2

Hood Screen and Bumper Assembly

Ref. No.	Part No.	Qty.	Description
50	105–9235	2	Seal–Foam
51	93–6028	1	Plate–Logo, Toro
52	94–2638	4	Nut–Tinnerman
53	66–1210	2	Decal–Toro Logo, 10.96x7.26
54	3269–10	8	Washer–Back
55	105–9829	1	Seal–Foam
56	3290–55	4	Rivet–Pop
57	3269–15	4	Rivet

Ref. No.	Part No.	Qty.	Description

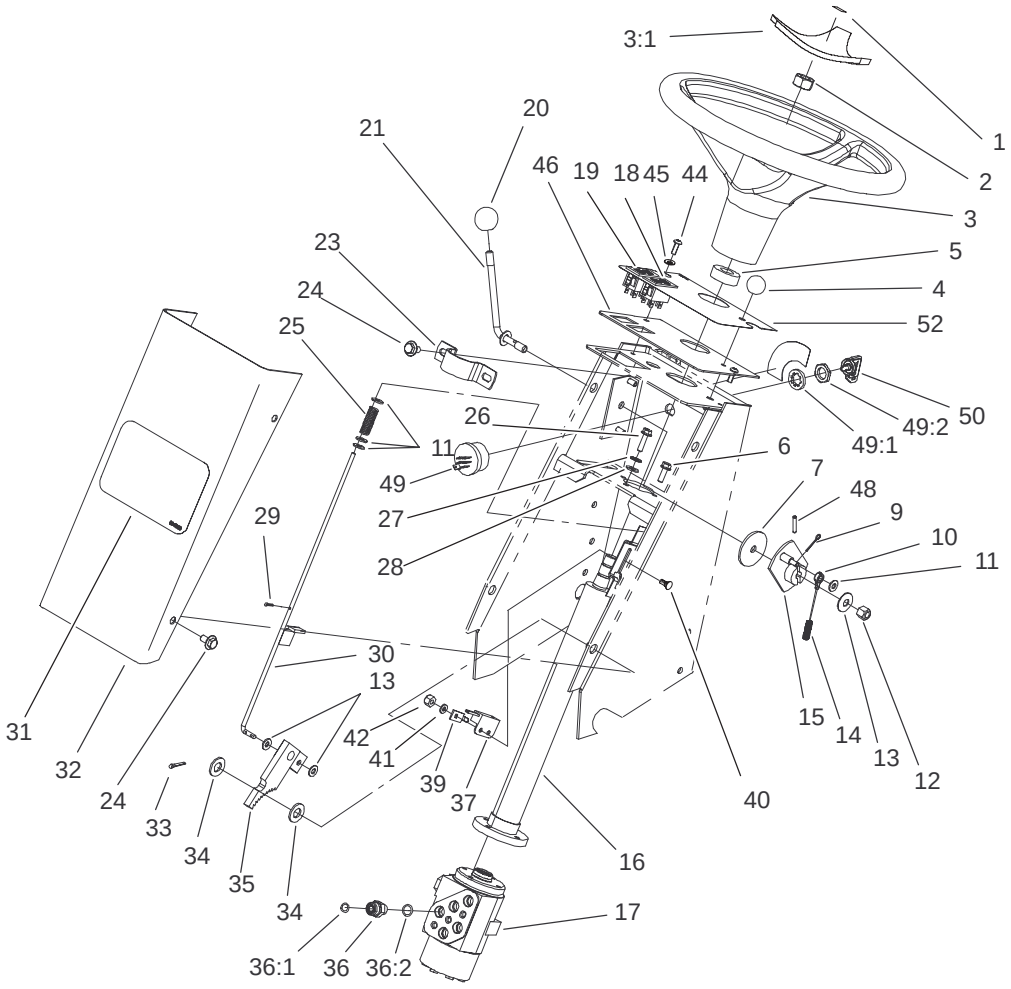


Sheet No.:3

Steering Tower Assembly

Ref. No.	Part No.	Qty.	Description
1	98–1459	1	Decal–Toro
2	94–9952	1	Nut–Hex
3	98–1471	1	Wheel–Steering
3:1	98–1468	1	Cover–Wheel, Steering
4	233–17	1	Knob
5	21–9260	1	Cover–Dust
6	33103–016	3	Screw–HHF
7	75–6550	1	Disc–Friction
9	3272–2	1	Pin–Cotter
10	75–6580	1	Cable–Pedal
11	3256–22	5	Washer–Flat
12	3296–39	1	Nut–Lock, NI
13	3290–461	1	Washer–Spring
14	95–7151	1	Tube–Convoluted
15	75–6510	1	Bracket–Lever
16	94–9951	1	Column–Steering
17	104–2213	1	Valve–Steering
18	100–8071	1	Lamp–Warning
19	100–8070	1	Lamp–Warning
20	233–42	1	Knob
21	75–6490	1	Lever
23	75–2810	1	Bracket–Column, Steering
24	3234–7	6	Screw–HHF
25	95–1821–03	1	Spring–Compression

Ref. No.	Part No.	Qty.	Description
26	33103–020	1	Screw–HHF
28	3256–23	6	Washer–Flat
29	3255–8	1	Washer–Lock/Ext
29	3272–5	3	Pin–Cotter
30	104–1492	1	Rod ASM
31	62–5550	1	Decal–Toro
32	93–7996–01	1	Cover–Tower
33	3272–10	1	Pin–Cotter
34	3256–26	2	Washer–Flat
35	63–7900–03	1	Rack ASM
36	340–2	5	Fitting–HYD, Straight
36:1	237–22	1	O–Ring
36:2	237–42	1	O–Ring
37	100–1270	1	Switch–Proximity
39	100–4872	1	Plate–Switch, Neutral
40	104–1450	1	Bolt–CARR
41	3256–14	1	Washer–Flat
42	3296–2	1	Nut–Lock
44	87–6620	2	Screw–Special
45	3256–1	2	Washer–Flat
46	105–9232–03	1	Plate–Instrument
48	32121–45	1	Pin–Spring
49	88–9830	1	Key Switch ASM
49:1	3254–5	1	Washer–Lock, Internal
49:2	218–461	1	Nut–HH
50	63–8360	1	Key–Ignition

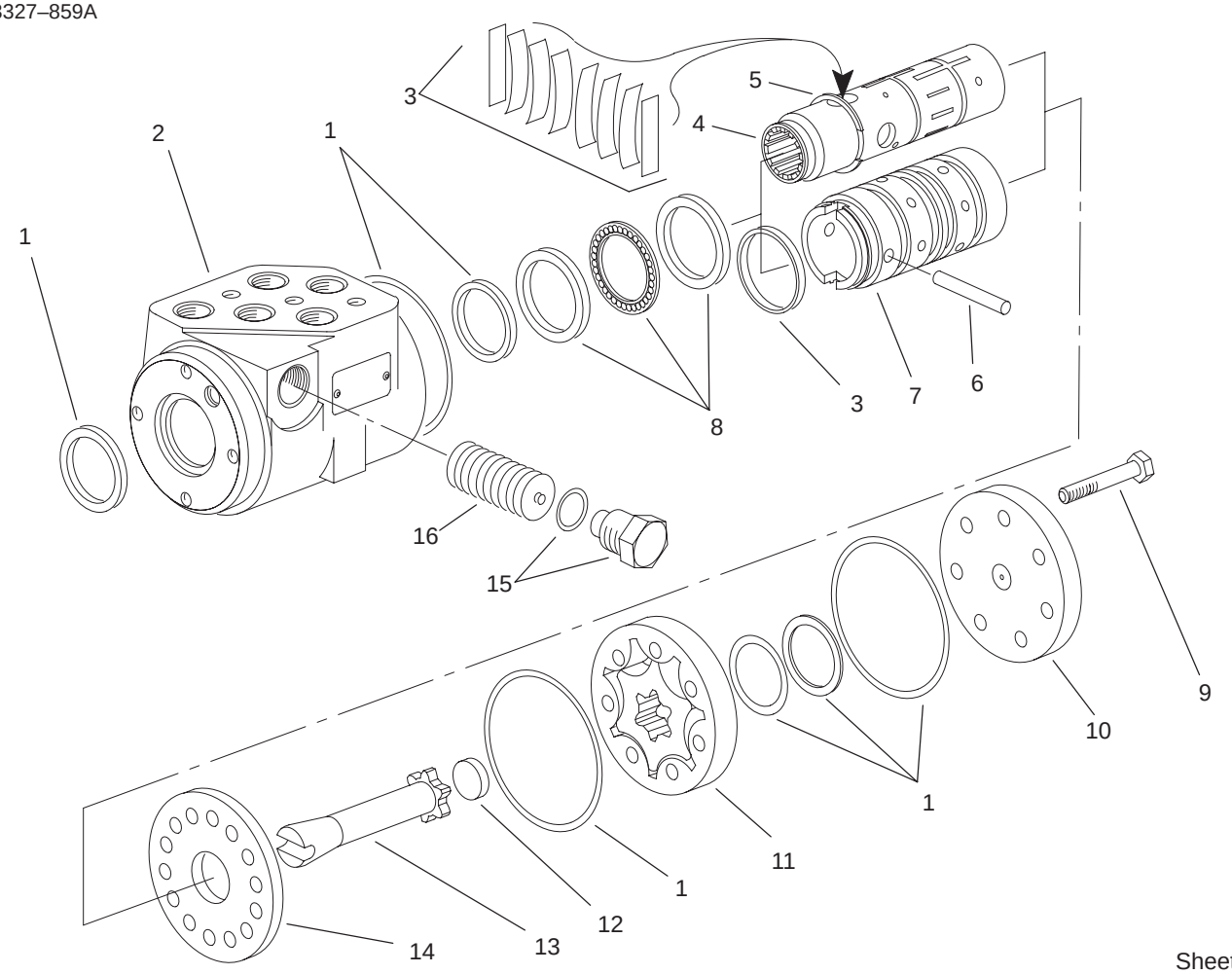


Sheet No.:3

Steering Tower Assembly

Ref. No.	Part No.	Qty.	Description
52	105–3888	1	Decal–Tower

Ref. No.	Part No.	Qty.	Description



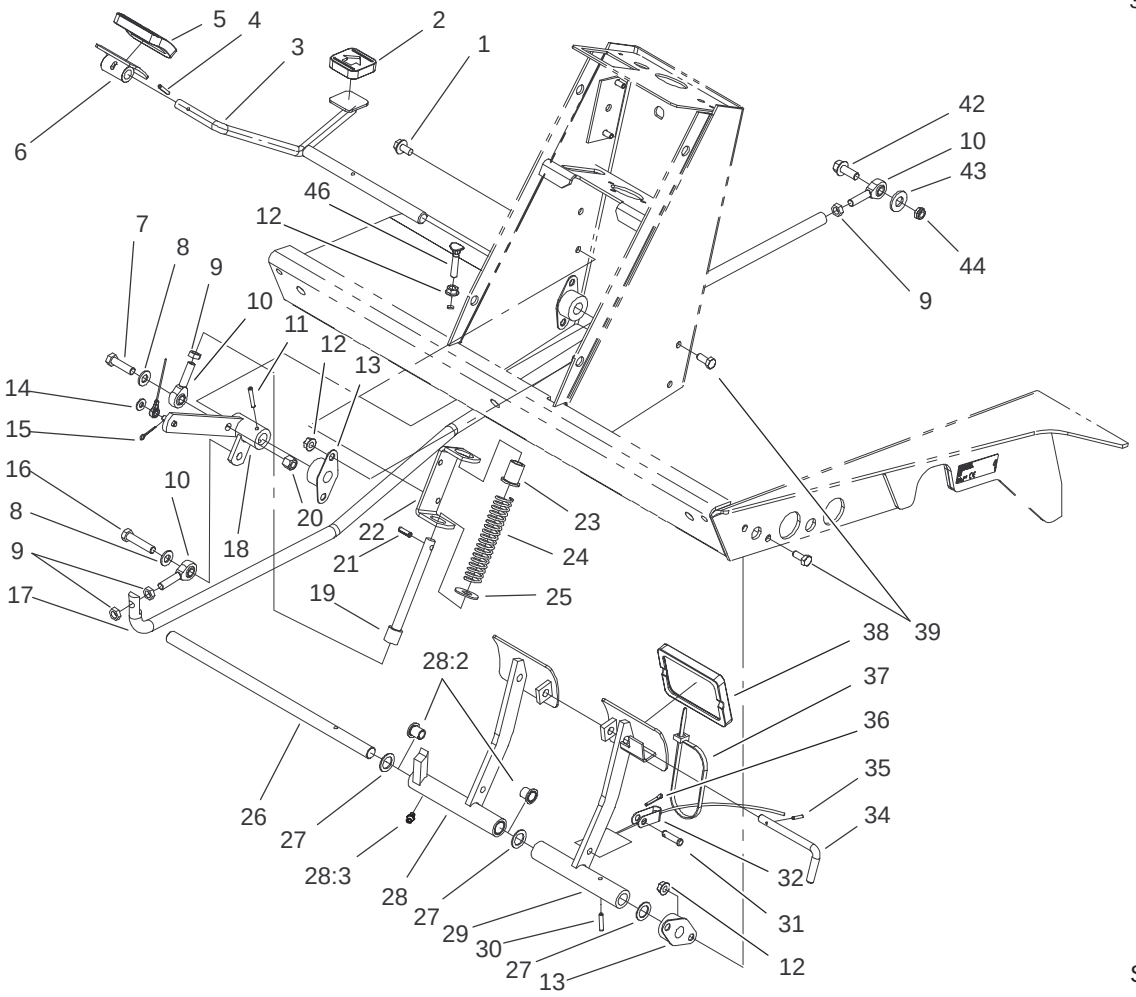
T–3795
Sheet No.:A1

Steering Valve Assembly No. 104–2213

Ref. No.	Part No.	Qty.	Description
1	94–4099	1	Seal Kit
☆2		1	Housing
3	94–4095	1	Centering Spring Kit
☆4		1	Spool
5	94–4098	1	Ring–Retaining
6	94–4094	1	Pin
☆7		1	Sleeve
8	94–4096	1	Bearing Kit
9	94–4088	7	Screw–Cap
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	99–5511	1	Plug ASM
16	99–5500	1	Valve–Relief

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



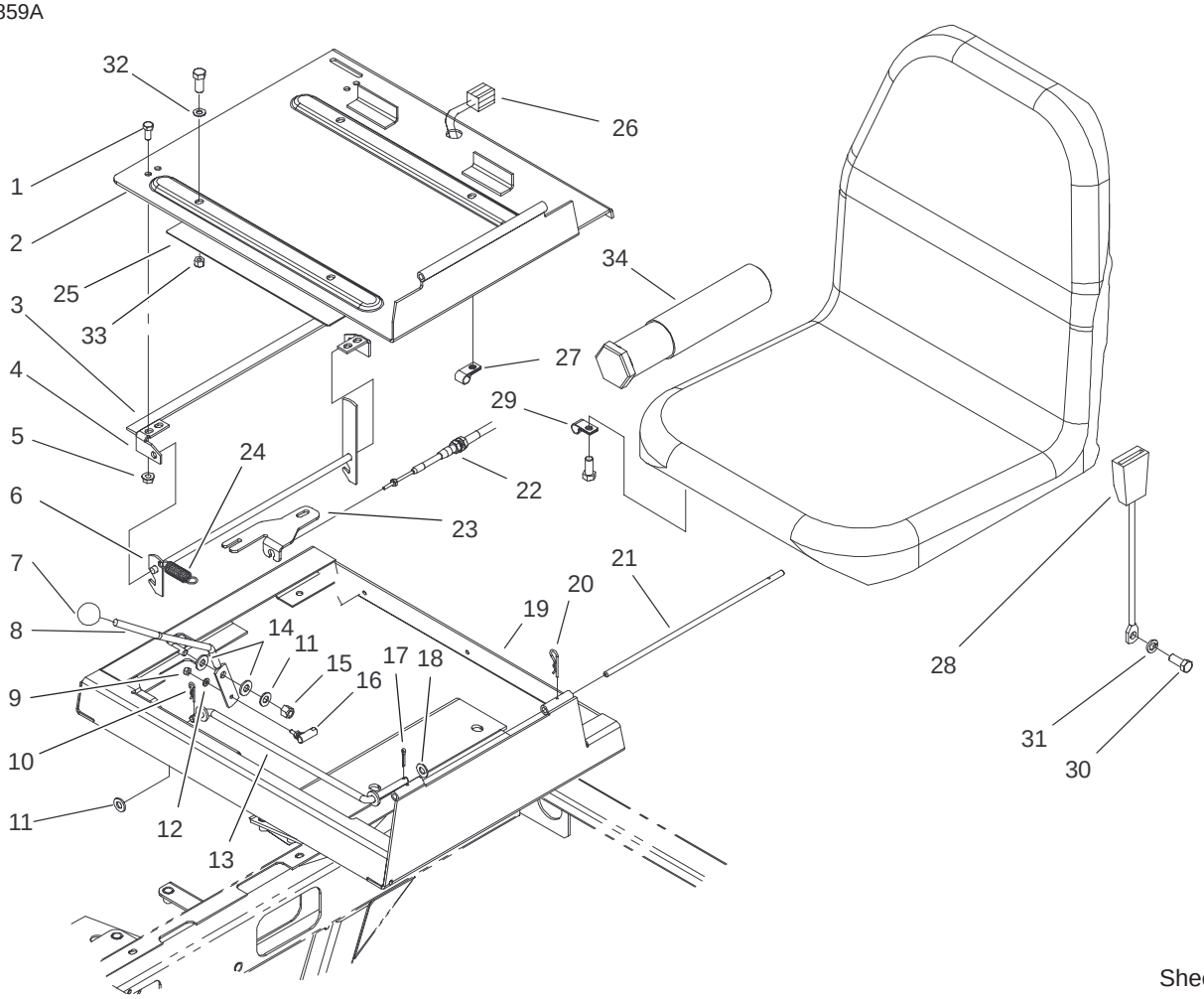
Sheet No.:4

Traction and Brake Pedal Assembly

Ref. No.	Part No.	Qty.	Description
1	32144–14	6	Screw–HWH
2	74–9110	1	Pad–Pedal, Reverse
3	75–2970	1	Pedal–Traction
4	32121–45	1	Pin–Spring
5	74–9100	1	Pad–Pedal, Forward
6	49–6440–03	1	Pedal–Forward
7	323–29	1	Screw–HH
8	3256–24	2	Washer–Flat
9	3220–3	4	Nut–Jam
10	2411–36	3	Bearing–End, Rod
11	32121–6	1	Pin–Roll
12	32128–20	12	Nut–HF
13	256–236	4	Bearing–Mount, Flange
14	3256–22	1	Washer–Flat
15	3272–2	1	Pin–Cotter
16	323–9	1	Screw–HH
17	104–5632–03	1	Rod–Control, Pump
18	75–3270–03	1	Hub–Pivot, Traction
19	92–7609	1	Shaft–Spring
20	3296–39	2	Nut–Lock, NI
21	32121–11	1	Pin–Roll
22	92–7608–03	1	Bracket–Spring
23	92–7610	1	Retainer–Spring
24	84–9100	1	Spring
25	3256–5	1	Washer–Flat

Ref. No.	Part No.	Qty.	Description
26	75–1470	1	Pin–Pivot, Brake
27	3256–69	3	Washer–Flat
28	75–1430	1	Pedal–Brake, RH
28:2	256–42	2	Bushing
28:3	302–5	1	Fitting–Grease
29	75–1440–03	1	Pedal–Brake, LH
30	32121–16	1	Pin–Spring
31	283–58	2	Pin–Clevis
32	92–7530	1	LH Brake Cable ASM
*33	92–7529	1	RH Brake Cable ASM
34	63–7880	1	Pin–Latch, Brake
35	32121–50	1	Pin–Spring
36	3272–10	2	Pin–Cotter
37	3290–378	1	Tie–Cable
38	93–8742	2	Footpad–Brake
39	322–3	8	Screw–HH
42	3234–11	1	Screw–HHF
43	5–0652	1	Spacer
44	3296–59	1	Nut–Lock, NI
46	17–9420	2	Screw–Handle

* Not illustrated



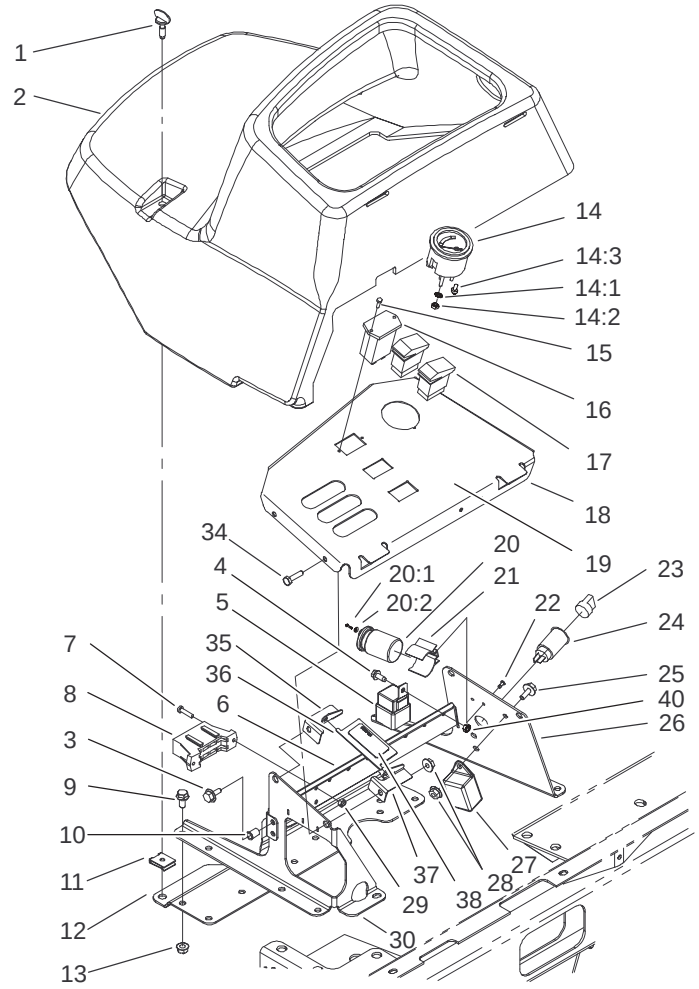
Sheet No.:5

Throttle and Seat Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	322–3	10	Screw–HH
2	98–2350–03	1	Plate–Seat
3	94–8146	1	Strip–Foam
4	98–2353	2	Bracket–Latch, Seat
5	32128–25	4	Nut–Flange
6	98–2354–03	1	Latch–Seat
7	233–42	1	Knob
8	93–7598–03	1	Lever–Throttle
9	3296–21	1	Nut–Lock, NI
10	3290–307	1	Pin–Hair
11	3256–24	3	Washer–Flat
12	3256–51	1	Washer–Flat
13	75–3680–03	1	Rod–Seat
14	66–2920	2	Washer–Friction
15	3296–39	1	Nut–Lock, NI
16	2411–38	1	Joint–Ball
17	3272–10	1	Pin–Cotter
18	52–2900	2	Washer
19	98–2352–03	1	Frame–Seat
20	3290–467	1	Pin–Hair
21	75–3400	1	Shaft–Pivot, Seat
22	104–7547	1	Cable–Throttle
23	105–3929–03	1	Bracket–Cable, Throttle
24	66–4190–03	1	Spring–Idler, Clutch

Ref. No.	Part No.	Qty.	Description
25	105–9824	1	Decal–Quick Reference
26	105–9189	1	Harness–Wire, Seat Switch
27	2412–133	2	R–Clamp
28	100–4928	1	Belt–Seat
29	2412–93	1	Clamp–R
30	3212–4	2	Screw–HH
31	3253–6	2	Washer–Lock
32	3256–23	8	Washer–Flat
33	3296–29	10	Nut–Lock, NI
34	74–0720	1	Tube–Manual
*99	3290–379	3	Tie–Cable

* Not illustrated

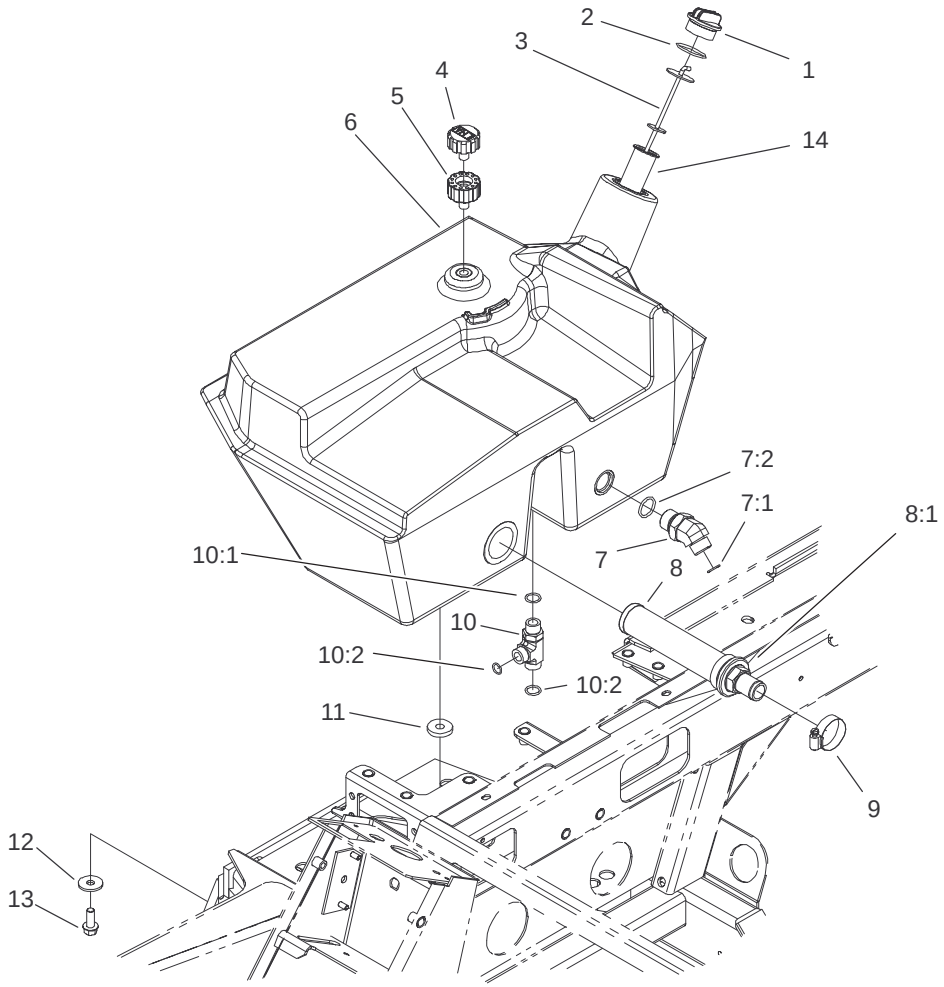


Sheet No.:6

Control Console Assembly

Ref. No.	Part No.	Qty.	Description
1	105–9208	2	Screw–Wing Head
2	104–5599	1	Cover–Console
3	3234–13	4	Screw–HHF
4	32144–10	9	Screw–HWH
5	99–7430	8	Relay
6	104–5613–03	1	Panel–Relay
7	3250–27	2	Screw–PPH
8	105–3876	1	Harness Wire–Console
9	3234–14	13	Screw–HHF
10	32148–6	6	Nut–Insert
11	105–9209	2	Recepticle–Clip On
12	104–5612–03	1	Support–Cover
13	32128–20	4	Nut–HF
14	98–9308	1	Gauge–Temperature
14:1	3254–1	3	Washer–Lock, Internal
14:2	3217–27	3	Nut–Hex
14:3	105–9265	1	Bulb And Lamp ASM
15	32144–18	2	Screw–HH
16	75–6820	1	Hourmeter
17	95–8999	2	Switch
18	104–5611–03	1	Dash
19	105–9223	1	Decal–Console, Ce
19	105–3890	1	Decal–Console
20	37–2690	1	Capacitor
20:1	3252–18	2	Screw

Ref. No.	Part No.	Qty.	Description
20:2	3254–1	2	Washer–Lock, Internal
21	74–2310	1	Clamp–Plastic
22	117433	2	Rivet–Pop
23	99–7416	1	Cap
24	99–7411	1	Point–Power
25	3234–4	1	Screw–HHF
26	104–5610–03	1	Panel–Dash, Rear
27	98–7611	1	Controller–Glow
28	32128–33	4	Nut–HF
29	3296–2	2	Nut–Lock
30	104–5609–03	1	Panel–Dash, Front
31	105–3986	1	Module–Deck Control
32	3250–13	2	Screw–PPH
33	3296–2	2	Nut–Lock
34	321–6	2	Screw–HH
35	105–9840	1	Bracket–Latch, RH
36	105–9842	1	Plate–Latch, Ce
37	105–9841	1	Bracket–Latch, LH
38	105–9830	1	Decal–Lever Lock, Ce
39	105–9836	1	Decal–Module, Deck
40	3296–42	2	Nut–Lock, NI

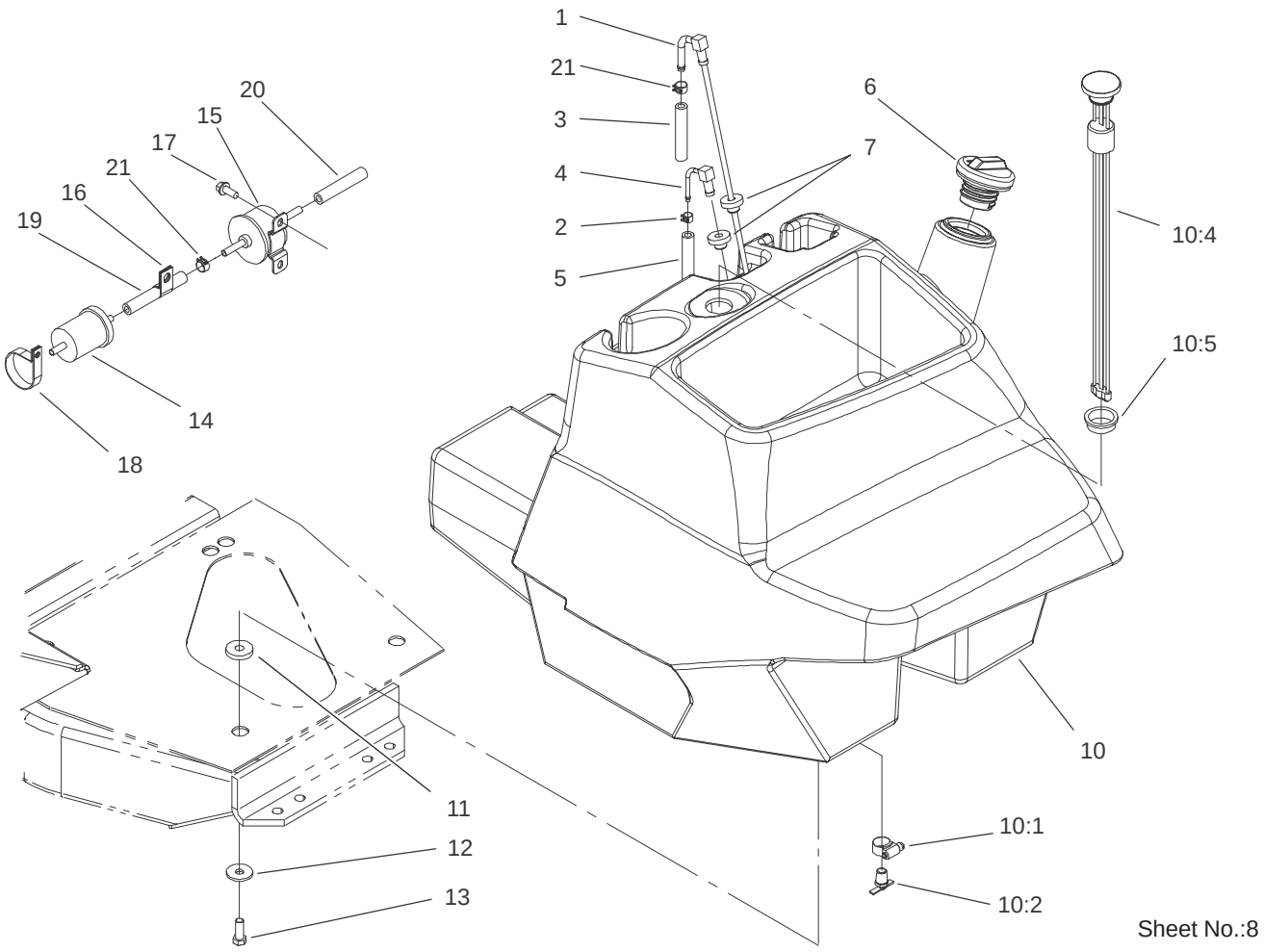


Sheet No.:7

Hydraulic Filter and ReservoirAssembly

Ref. No.	Part No.	Qty.	Description
1	93–7498	1	Plug–Plastic
2	94–8166	1	O–Ring
3	75–3710	1	Dipstick
4	68–6150	1	Breather–Air
5	92–8020	1	Adapter–Breather
6	104–5600	1	Tank–Hydraulic
7	340–156	1	Fitting–HYD
7:1	237–65	1	O–Ring
7:2	237–81	1	O–Ring
8	104–7546	1	Strainer–Tank
8:1	340–136	1	O–Ring
9	2412–111	2	Clamp
10	340–109	1	Fitting–HYD, Tee
10:1	237–79	1	O–Ring
10:2	237–30	2	O–Ring
11	240–11	3	Grommet–Mount, Tank
12	63–8410	3	Washer
13	3234–11	3	Screw–HHF
14	61–2790	1	Filter–Screen

Ref. No.	Part No.	Qty.	Description

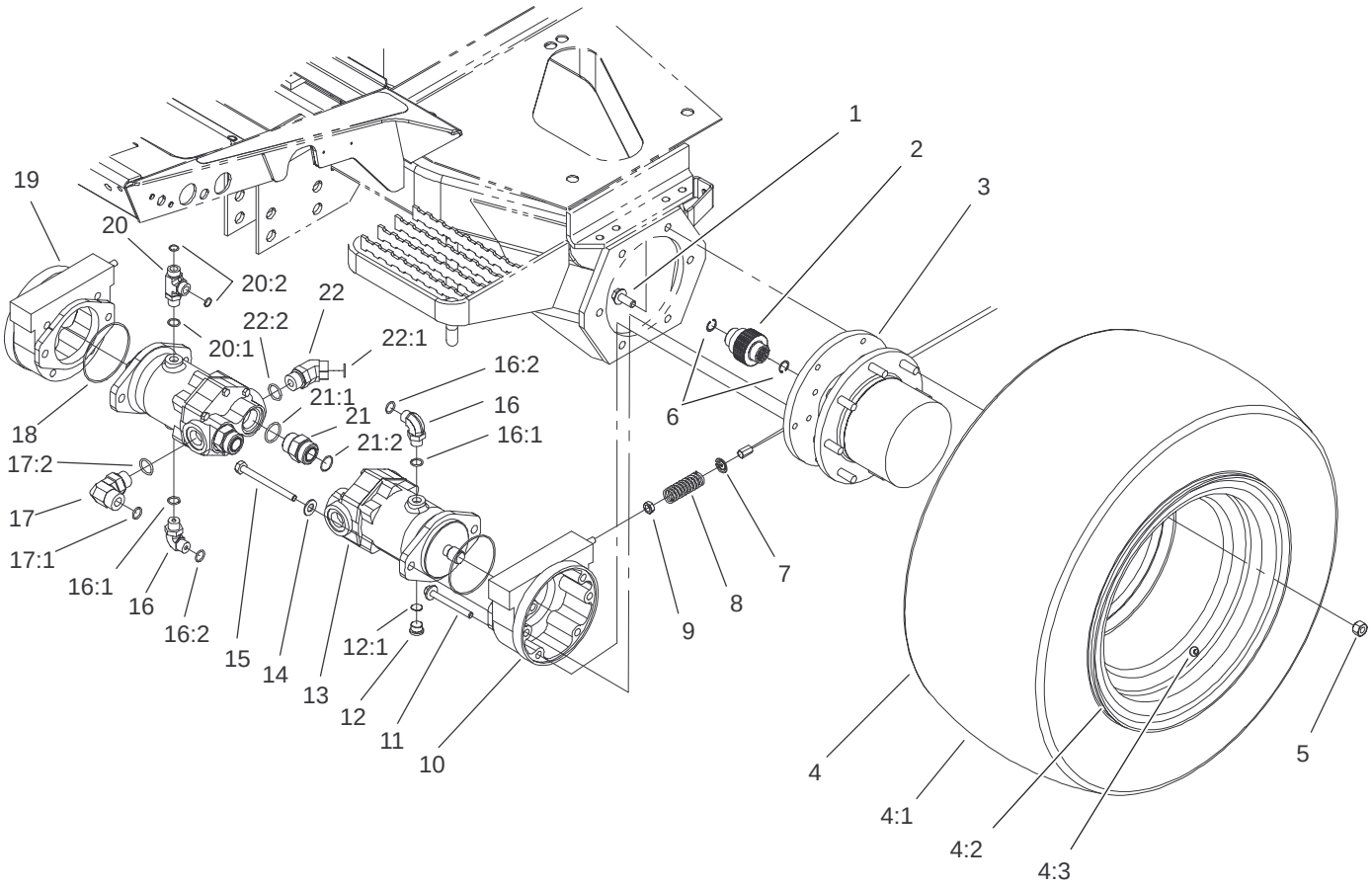


Sheet No.:8

Fuel Tank and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5604	1	Fitting–Suction
2	2412–80	2	Clamp–Line, Fuel
3	39–1120	1	Hose–Fuel
4	104–5605	1	Fitting–Return
5	105–9242	1	Hose–Fuel
6	93–3102	1	Cap–Fuel
7	46–6560	2	Bushing
10	104–5601	1	Fuel Tank ASM
10:1	2412–36	1	Clamp–Hose
10:2	304–46	1	Draincock
10:4	104–5603	1	Gauge–Fuel Level
10:5	95–8972	1	Grommet
11	240–11	4	Grommet–Mount, Tank
12	63–8410	4	Washer
13	323–6	4	Screw–HH
14	98–7612	1	Filter–Fuel
15	104–5215	1	Pump–Fuel, Electric
16	2412–138	1	R–Clamp
17	32144–10	4	Screw–HWH
18	2412–148	1	Clamp–R
19	105–9196	1	Hose–Fuel
20	93–2230	1	Hose–Fuel
21	92–2379	5	Clamp–Hose

Ref. No.	Part No.	Qty.	Description



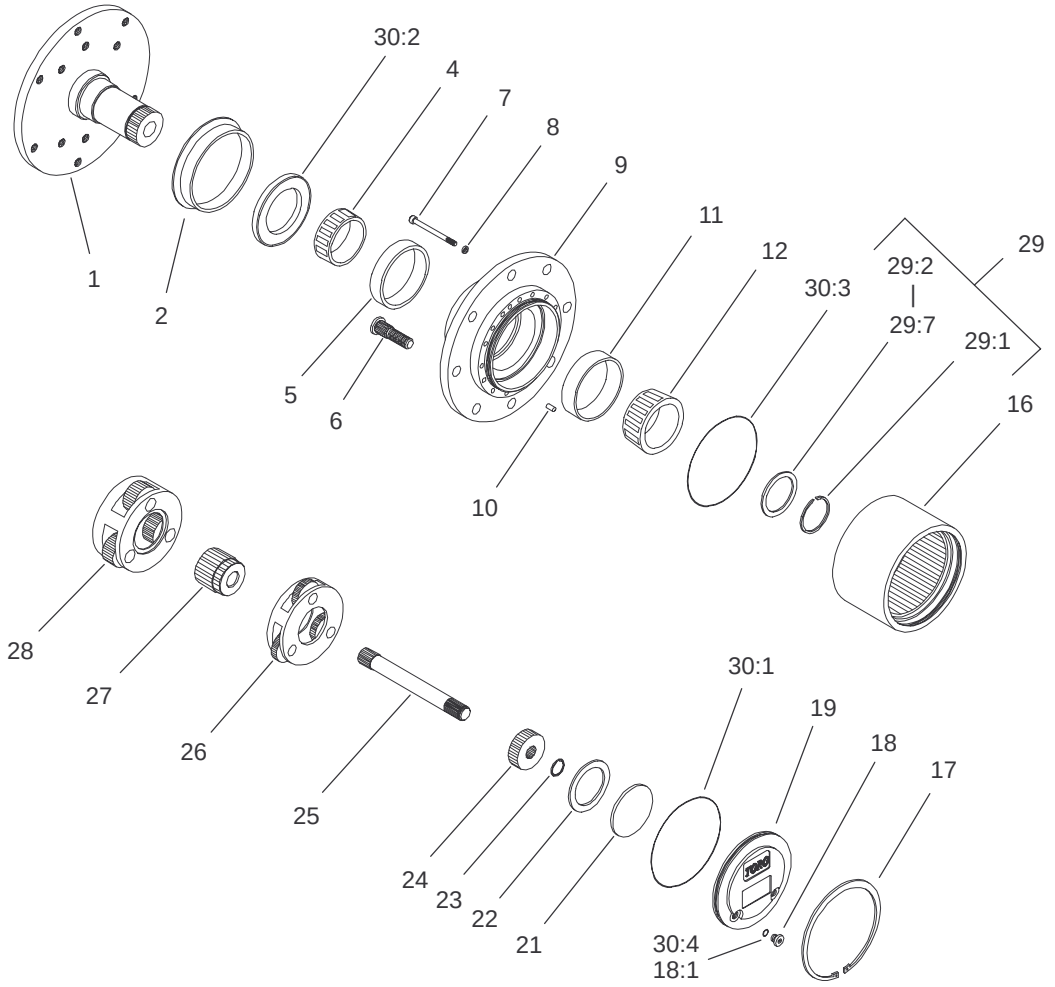
Sheet No.:9

Front Drive and Brake Assembly

Ref. No.	Part No.	Qty.	Description
1	33106–030	12	Screw–HHF
2	100–3046	2	Shaft–Splined, Brake
3	105–4500–03	2	Planetary ASM
☆4		2	Wheel & Tire ASM
4:1	95–3465	1	Tire
4:2	95–3464	1	Rim
4:3	232–24	1	Stem–Valve
5	92–7483	16	Nut–Lug
6	93–7972	4	Ring–Retaining, Int.
7	94–3050	2	Plate–Spring
8	94–3088	2	Spring–Compression
9	3218–4	2	Nut–Jam
10	100–3070	1	LH Brake ASM
11	33106–090	8	Screw–HHF
12	353–988	1	Plug–Hex, Hollow
12:1	237–79	1	O–Ring
13	105–1218	2	Motor–Piston
14	3256–26	4	Washer–Flat
15	33116–120	4	Screw–HH
16	340–98	2	Fitting–HYD, 90°
16:1	237–79	1	O–Ring
16:2	237–30	1	O–Ring
17	340–142	2	Elbow–90°
17:1	237–58	1	O–Ring
17:2	237–81	1	O–Ring
18	237–166	2	O–Ring

Ref. No.	Part No.	Qty.	Description
19	100–3069	1	RH Brake ASM
20	340–109	1	Fitting–HYD, Tee
20:1	237–79	1	O–Ring
20:2	237–30	2	O–Ring
21	104–3797	4	Fitting–HYD, Straight
21:1	237–146	1	O–Ring
21:2	340–65	1	O–Ring
22		2	Fitting–45°
22:1	237–58	1	O–Ring
22:2	237–81	1	O–Ring

☆ Not serviced separately



Sheet No.:A2

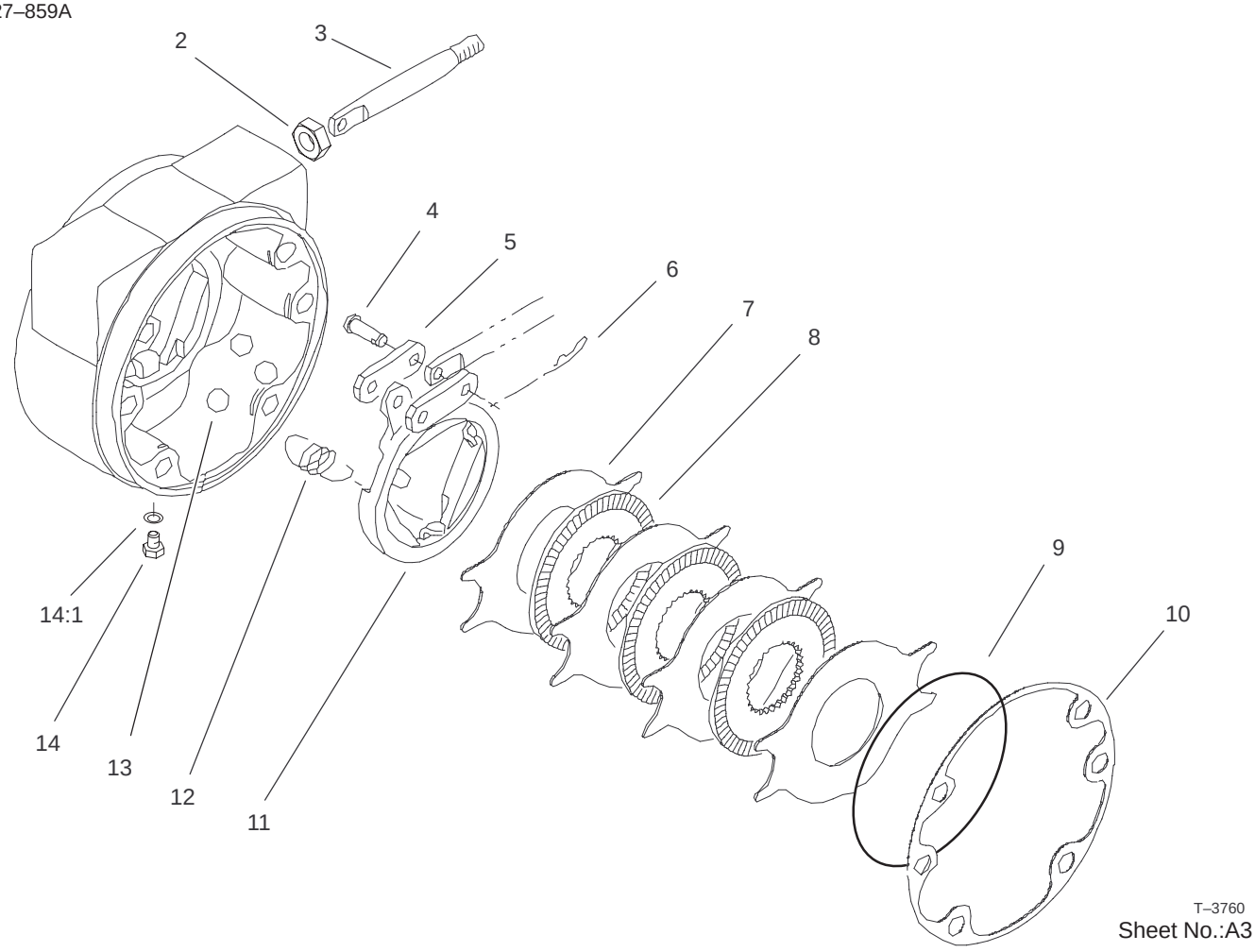
Planetary Assembly No. 105–4500–03

Ref. No.	Part No.	Qty.	Description
☆1		1	Spindle
2	105–8122	1	Seal–Boot
4	105–8120	1	Bearing–Cone
5	105–8119	1	Bearing–Cup
6	105–8124	8	Stud–Wheel
7	105–8125	16	Bolt–Socket Head
8	3253–18	16	Washer–Lock/Sp
☆9		1	Housing
10	105–8121	1	Pin–Dowel
11	105–8117	1	Bearing–Cup
12	105–8118	1	Bearing–Cone
16	105–8113	1	Gear–Ring
17	105–8132	1	Ring–Retaining
18	353–990	2	Plug
18:1	237–78	1	O–Ring
19	105–8138	1	Cap–End
21	105–8133	1	Plug–Thrust
22	105–8123	1	Washer–Thrust
23	105–8131	1	Ring–Retaining
24	105–8114	1	Gear–Primary
25	105–8115	1	Shaft–Drive
26	105–8129	1	Primary Carrier ASM
27	105–8139	1	Gear–Secondary
28	105–8130	1	Secondary Carrier ASM
29	105–8136	1	Part Kit

Ref. No.	Part No.	Qty.	Description
☆29:1		1	Ring–Snap
☆29:2		1	Shim–Bearing, 2.9mm
☆29:3		1	Shim–Bearing, 2.8mm
☆29:4		1	Shim–Bearing, 2.7mm
☆29:5		1	Shim–Bearing, 2.6mm
☆29:6		1	Shim–Bearing, 2.5mm
☆29:7		1	Shim–Bearing, 2.4mm
*30	105–8137	1	Seal Kit
☆30:1		1	O–Ring, Flange Cap
☆30:2		1	Seal–Oil
☆30:3		2	O–Ring, End Cap
☆30:4		2	O–Ring, Plug

☆ Not serviced separately
* Not illustrated

3327–859A

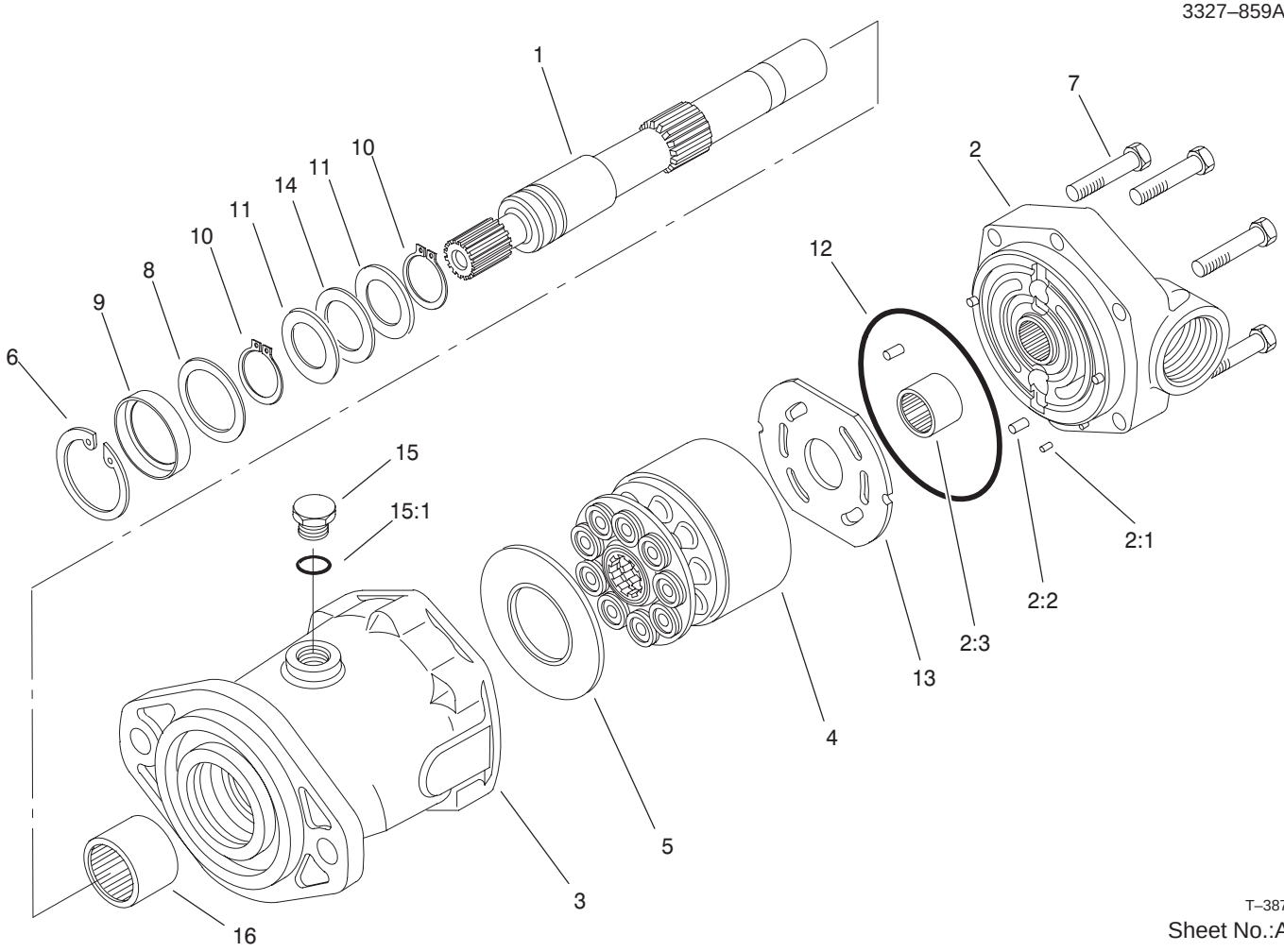


T–3760
Sheet No.:A3

LH Brake Assembly No. 100–3070

Ref. No.	Part No.	Qty.	Description
2	93–7977	1	Seal
3	93–7978	1	Rod–Pull
4	93–7983	2	Pin–Clevis
5	93–7980	2	Link
6	93–7979	2	Pin–Hitch
7	93–7986	4	Disc–Stationary
8	104–4278	3	Disc–Rotating
9	93–7976	1	Ring–Retaining
10	93–7984	1	Gasket
11	104–4279	1	Actuator–Rotating
12	93–7987	3	Spring–Extension
13	93–7985	3	Ball
14	353–990	2	Plug
14:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description



T–3877

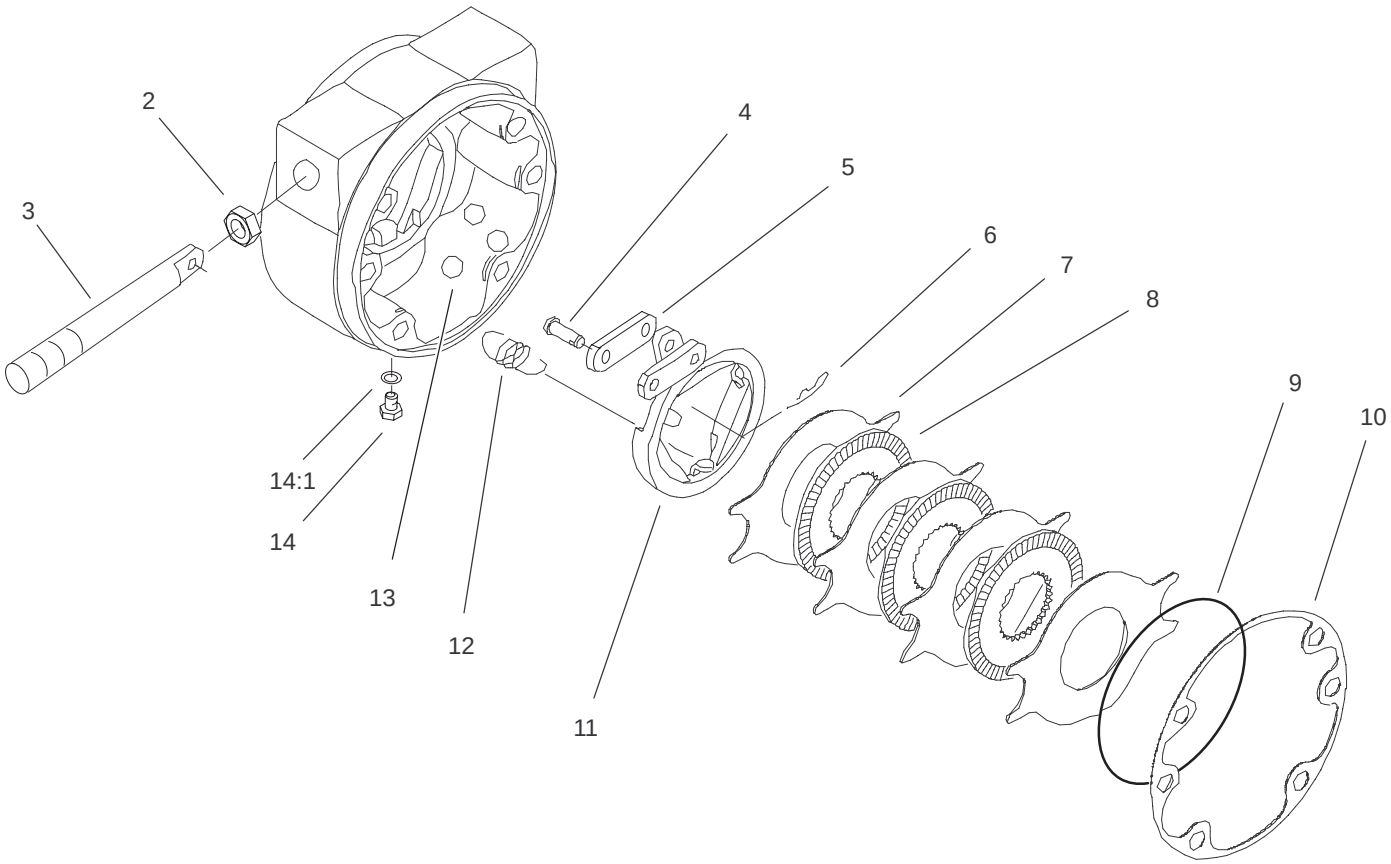
Sheet No.:A4

Piston Motor Assembly No. 105–1218

Ref. No.	Part No.	Qty.	Description
1	94–3004	1	Shaft–Drive, Splined
2	105–2851	1	Backplate ASM
☆2:1		3	Pin–Dowel
☆2:2		1	Pin–Dowel
☆2:3		1	Bearing–Needle
☆3		1	Housing
4	76–6910	1	Rotating Kit
5	76–6970	1	Insert–Plate, Cam
6	60–6260	1	Ring
7	94–3002	6	Capscrew
8	94–3007	1	Washer
9	105–3331	1	Seal–Shaft
10	76–7000	2	Ring–Retaining
11	60–6160	2	Race
12	76–6980	1	O–Ring
13	94–3003	1	Plate–Valve
14	60–6170	1	Bearing–Thrust
15	353–550	1	Plug–HYD
15:1	237–79	1	O–Ring
16	63–4390	1	Bearing–Needle

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



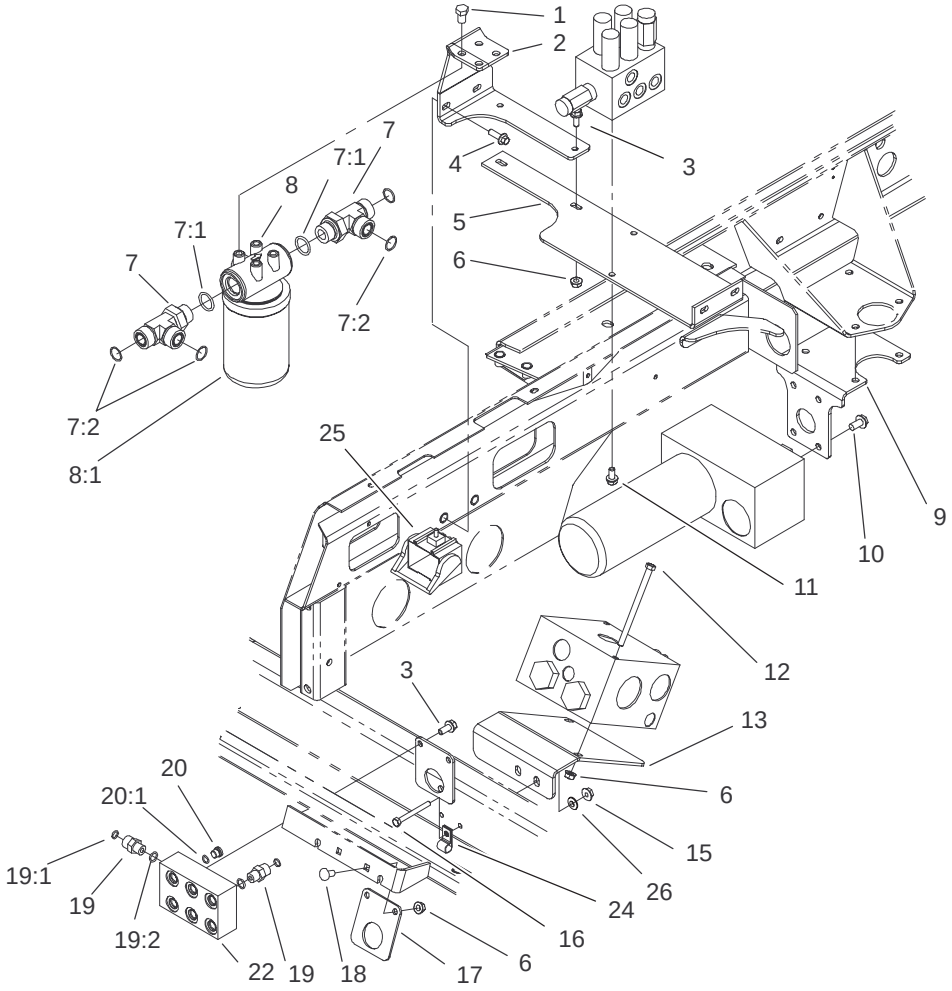
T–3759

Sheet No.:A5

RH Brake Assembly No. 100–3069

Ref. No.	Part No.	Qty.	Description
2	93–7977	1	Seal
3	93–7978	1	Rod–Pull
4	93–7983	2	Pin–Clevis
5	93–7980	2	Link
6	93–7979	2	Pin–Hitch
7	93–7986	4	Disc–Stationary
8	104–4278	3	Disc–Rotating
9	93–7976	1	Ring–Retaining
10	93–7984	1	Gasket
11	104–4280	1	Actuator–Rotating
12	93–7987	3	Spring–Extension
13	93–7985	3	Ball
14	353–990	2	Plug
14:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description



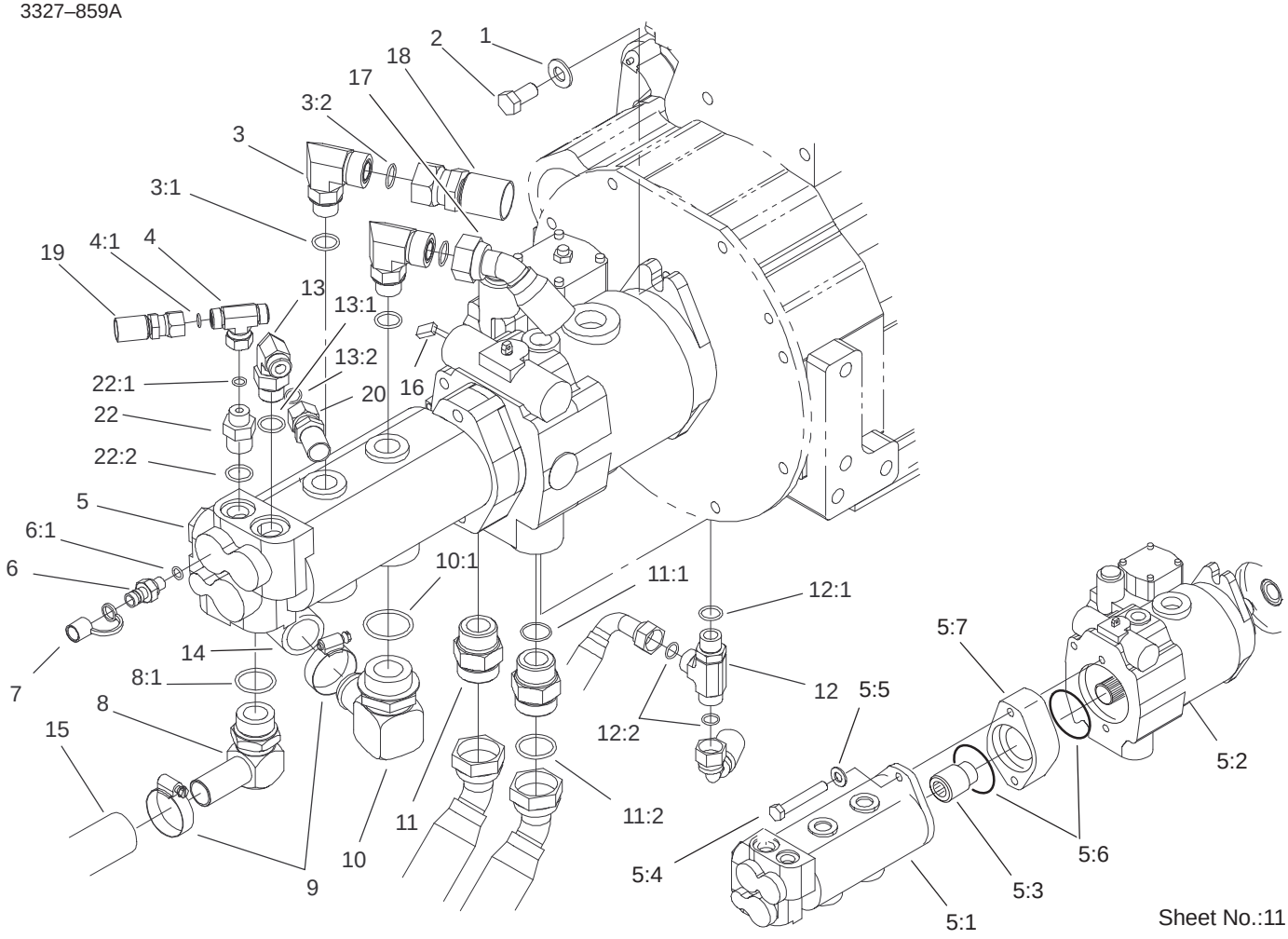
Sheet No.:10

Manifold Mounting and Fitting Assembly

Ref. No.	Part No.	Qty.	Description
1	33115–016	4	Screw–HH
2	104–5492–03	1	Bracket–Filter Mount
3	3234–5	4	Screw
4	3234–17	4	Screw–HHF
5	104–5493–03	1	Bracket–Valve Mount
6	32128–20	6	Nut–HF
7	340–148	2	Fitting
7:1	237–81	1	O–Ring
7:2	237–58	2	O–Ring
8	93–2242	1	Oil Filter ASM
8:1	75–1310	1	Element–Filter
9	104–5471–03	1	Bracket–Filter Valve
10	3234–1	4	Screw–HHF
11	3234–14	3	Screw–HHF
12	322–48	2	Screw–HH
13	104–5467–03	1	Bracket–Valve Mount
15	32128–33	2	Nut–HF
16	321–14	2	Screw–HH
17	104–5516–01	1	Support–Tube
18	3230–23	2	Screw–CARR
19	340–2	4	Fitting–HYD, Straight
19:1	237–22	1	O–Ring
19:2	237–42	1	O–Ring
20	353–990	1	Plug
20:1	237–78	1	O–Ring
22	104–5515	1	Manifold–Junction, Lift

Ref. No.	Part No.	Qty.	Description
24	2412–93	2	Clamp–R
25	105–3877	1	Harness–Wire, Main
26	3256–22	2	Washer–Flat
*99	3290–379	4	Tie–Cable

* Not illustrated

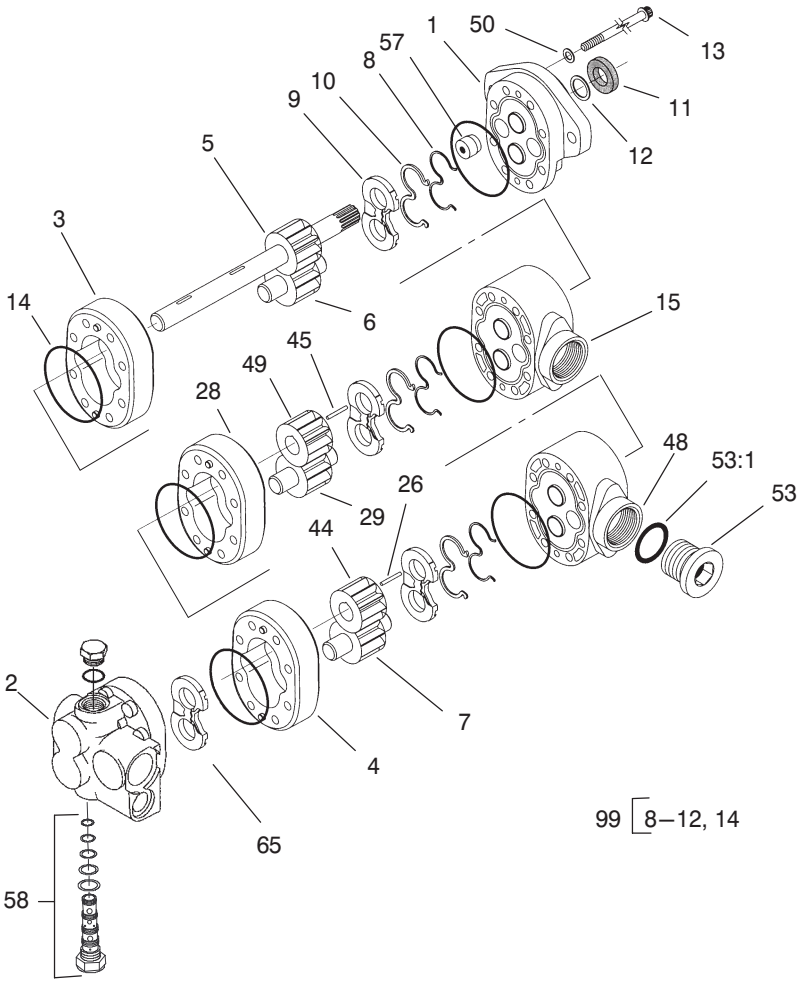


Sheet No.:11

Hydraulic Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	3256–26	2	Washer–Flat
2	3213–2	2	Screw–HH
3	340–16	2	Fitting–HYD, 90°
3:1	237–80	1	O–Ring
3:2	237–58	1	O–Ring
4	340–166	1	Fitting–Tee, HYD
4:1	237–22	1	O–Ring
5	105–1226	1	Pump ASM
5:1	105–9845	1	Triple Pump ASM
5:2	105–9846	1	Piston Pump ASM
5:3	74–9030	1	Coupler
5:4	323–32	2	Screw–HH
5:5	60–3540	2	Washer
5:6	60–3520	2	O–Ring
5:7	99–5510	1	Spacer
6	354–77	2	Fitting–Quick
6:1	237–78	1	O–Ring
7	354–79	2	Cap–Dust, Yellow
8	56–9530	1	Fitting–HYD, 90°
8:1	237–117	1	O–Ring
9	2412–111	2	Clamp
10	92–7526	1	Fitting–HYD, 90°
10:1	237–101	1	O–Ring
11	104–3797	2	Fitting–HYD, Straight
11:1	237–146	1	O–Ring
11:2	340–65	1	O–Ring

Ref. No.	Part No.	Qty.	Description
12	340–109	1	Fitting–HYD, Tee
12:1	237–79	1	O–Ring
12:2	237–30	2	O–Ring
13	340–98	1	Fitting–HYD, 90°
13:1	237–79	1	O–Ring
13:2	237–30	1	O–Ring
14	104–5482	1	Hose–Suction
15	104–5484	1	Hose–Suction
16	105–0122	1	Harness–Wire
17	105–3874	1	Hose ASM
18	105–3875	1	Hose ASM
19	92–7595	1	Hose ASM
20	105–3869	1	Hose ASM
22	340–141	1	Fitting
22:1	237–22	1	O–Ring
22:2	237–80	1	O–Ring



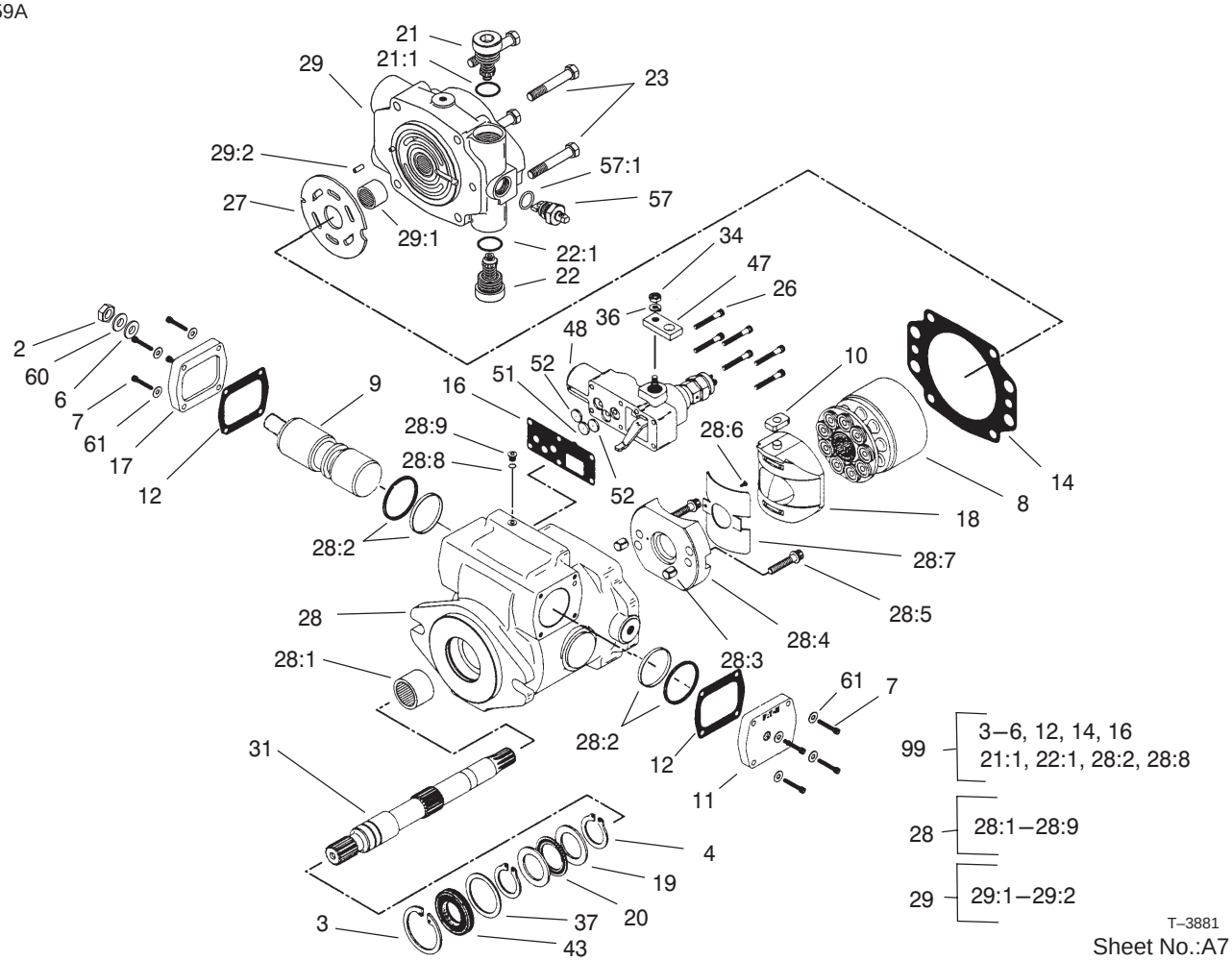
T–3880
Sheet No.:A6

Triple Pump Assembly No. 105–9845

Ref. No.	Part No.	Qty.	Description
☆1		1	Front Plate ASM
☆2		1	Back Plate ASM
☆3		1	Body
☆4		1	Body
☆5		1	Drive Gear ASM
☆6		1	Gear–Idler
☆7		1	Gear–Idler
☆8		3	Gasket–Backup
☆9		3	Plate–Wear
☆10		3	Seal–Pressure, Balance
11	49–2640	1	Seal–Shaft
12	60–5890	1	Washer
13	105–9849	8	Capscrew
14	105–2866	6	O–Ring
☆15		1	Plate–Adaptor
☆26		1	Key
☆28		1	Body
☆29		1	Gear–Idler
☆44		1	Gear
☆45		1	Key
☆48		1	Plate–Adaptor
☆49		1	Gear
50	105–9850	4	Washer–Copper
53	94–3013	1	Plug
☆53:1		1	O–Ring

Ref. No.	Part No.	Qty.	Description
57	94–3011	1	Plug
58	105–2870	1	Valve–Proportional
☆65		1	Plate–Thrust
99	105–2868	1	Seal Kit

☆ Not serviced separately

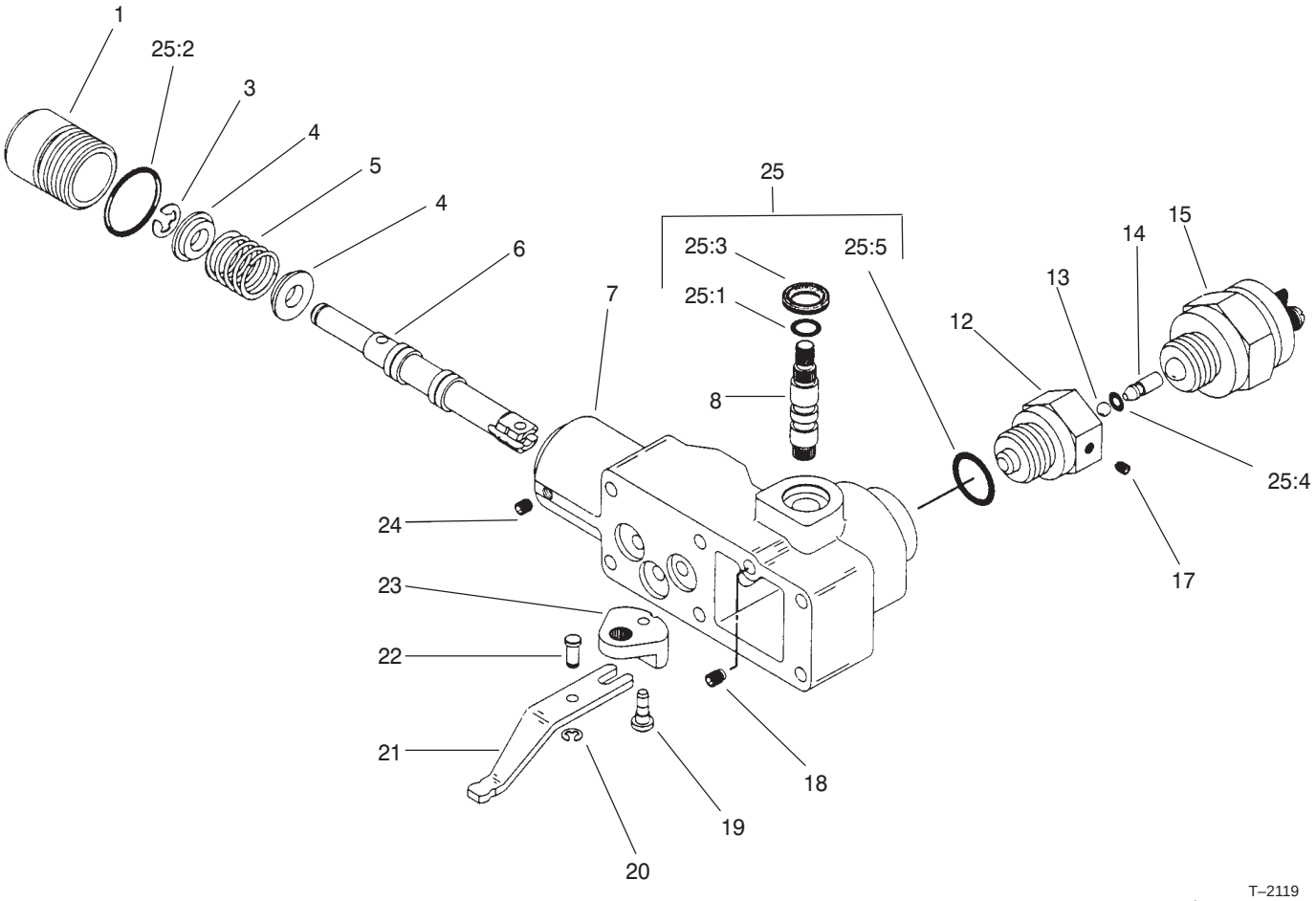


Piston Pump Assembly No. 105–9846

Ref. No.	Part No.	Qty.	Description
2	3220–2	1	Nut
3	76–7010	1	Ring–Retaining
4	76–7000	2	Ring–Retaining
6	94–3027	1	Washer–Seal
7	3274–81	8	Screw–HSH
8	105–9851	1	Rotating Kit ASM
9	105–4572	1	Servo Piston ASM
10	105–9852	1	Follower–Piston
11	105–9853	1	Plate–Cover
☆12		2	Gasket–Plate, Cover
☆14		1	Gasket–Housing
☆16		1	Gasket
17	94–3034	1	Plate–Cover
18	94–3026	1	Camplate ASM
19	76–6950	2	Race–Thrust
20	76–6960	1	Bearing–Thrust
21	105–2857	1	Valve–Relief
☆21:1		1	O–Ring
22	105–2857	1	Valve–Relief
☆22:1		1	O–Ring
23	323–45	4	Screw–HH
26	3274–59	6	Screw–HSH
27	105–9854	1	Plate–Valve
28	105–9855	1	Housing ASM
29	105–9856	1	Backplate ASM
31	105–2861	1	Shaft–Drive

Ref. No.	Part No.	Qty.	Description
34	3217–5	1	Nut–Hex
36	3253–3	1	Washer–Lock
37	94–3007	1	Washer
43	105–3331	1	Seal–Shaft
47	94–3031	1	Arm–Control
48	93–6306	1	Control ASM
51	105–2909	1	Orifice–Control, .036 Dia
52	94–3041	1	Orifice–Control, .028 Dia
57	105–2864	1	Valve–Bypass
☆57:1		1	O–Ring
60	94–3030	1	Washer
61	3256–77	8	Washer–Flat
99	105–3349	1	Seal Kit

☆ Not serviced separately



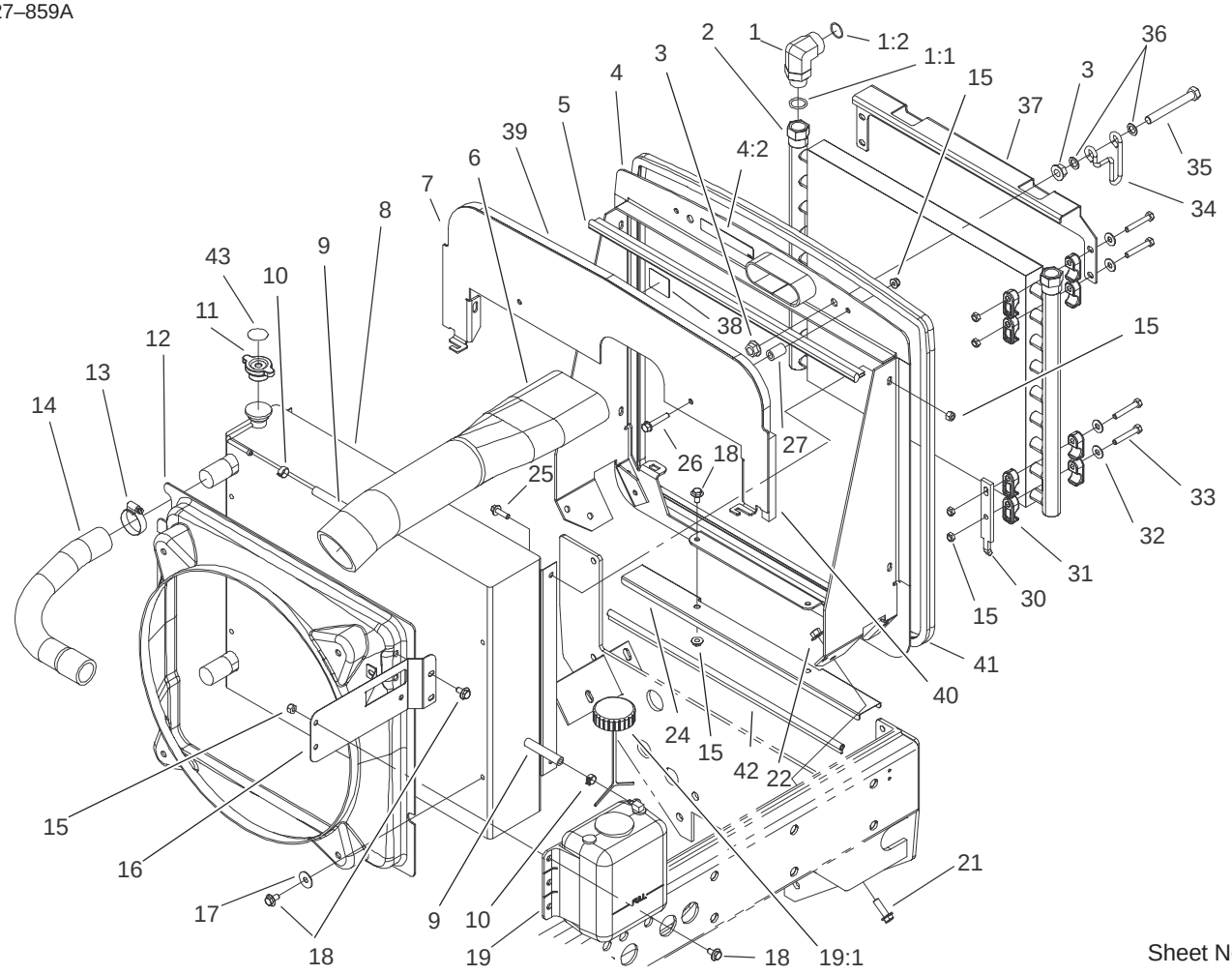
T–2119
Sheet No.:A8

Control Assembly No. 93–6306

Ref. No.	Part No.	Qty.	Description
☆1		1	Plug
☆3		1	Ring–Retaining
☆4		2	Retainer–Spring
☆5		1	Spring
☆6		1	Valve–Spool
☆7		1	Housing–Control
☆8		1	Shaft–Input
☆12		1	Adaptor
☆13		1	Ball
☆14		1	Pin
15	94–3043	1	Switch–Safety, Neutral
☆17		1	Screw–Set
☆18		1	Screw–Set
☆19		1	Pin
☆20		1	Ring–Retaining
☆21		1	Link
☆22		1	Pin–Dowel
☆23		1	Crank–Bell
☆24		1	Screw–Set
25	94–3044	1	Seal Kit
☆25:1		1	O–Ring
☆25:2		1	O–Ring
☆25:3		1	Seal–Wiper
☆25:4		1	O–Ring
☆25:5		1	O–Ring

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

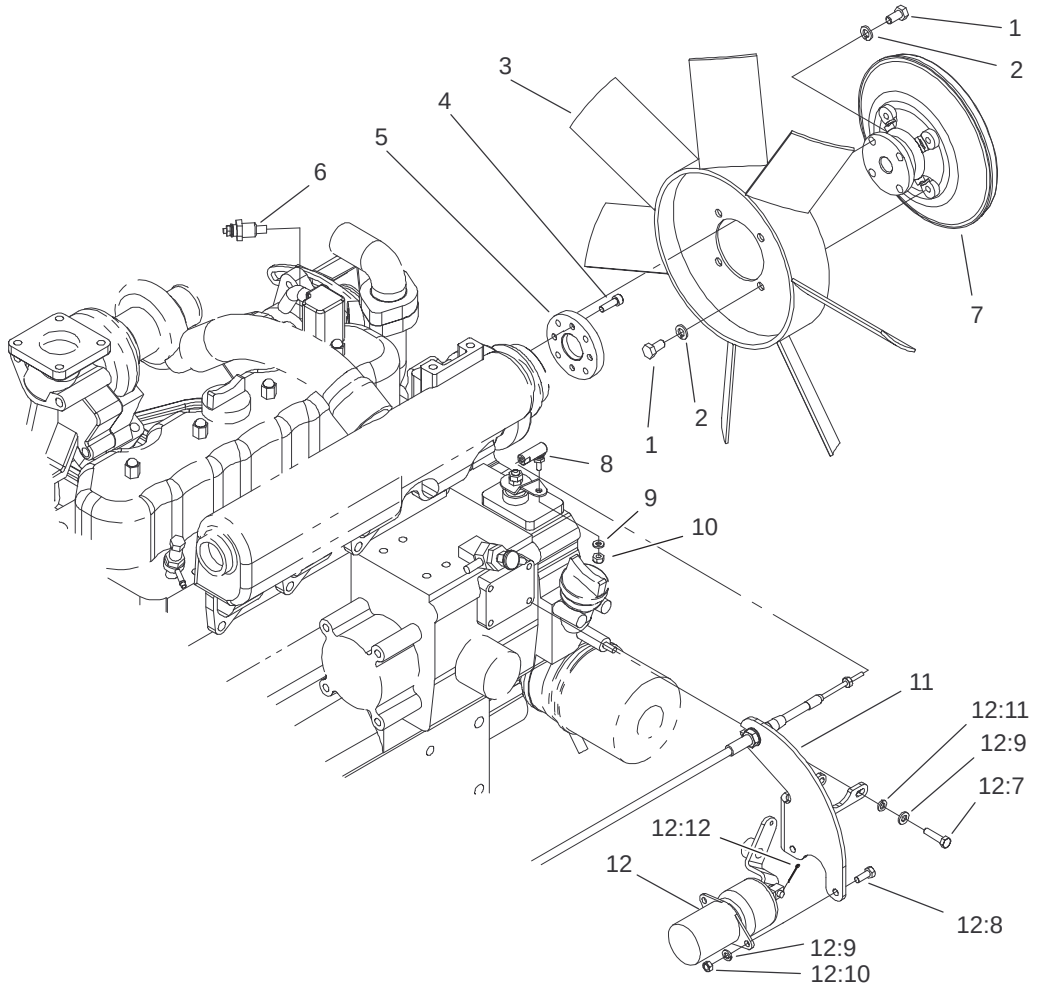


Sheet No.:12

Radiator Assembly

Ref. No.	Part No.	Qty.	Description
1	104–8315	2	Fitting–90
1:1	237–81	1	O–Ring
1:2	340–65	1	O–Ring
2	99–5495	1	Cooler–Oil
3	32128–49	4	Nut–HHF
4	105–3994	1	Bracket–Radiator, ASM
4:2	93–7272	1	Decal–Warning
5	104–2223	1	Seal–Bulb
6	100–5550	1	Hose–Cleaner, Air
7	105–3934–03	1	Bracket–Hood Seal
8	99–5426	1	Radiator
9	71–3370	2	Hose–Fuel
10	92–2379	3	Clamp–Hose
11	93–5957	1	Cap–Radiator
12	99–5428	1	Shroud–Radiator
13	2412–111	4	Clamp
14	100–5547	2	Hose–Radiator
15	104–8300	16	Nut–Flange, NI
16	100–5505–03	1	Bracket–Tank
17	3256–35	4	Washer–Flat
18	3234–7	14	Screw–HHF
19	104–2276	1	Reservior–Coolant
19:1	87–7050	1	Cap–Reservoir
21	3234–11	4	Screw–HHF
22	32128–43	4	Nut–Flange

Ref. No.	Part No.	Qty.	Description
24	104–5426–03	1	Cover–Bottom
25	3234–17	6	Screw–HHF
26	94–5780	2	Bolt–Head
27	93–6981	2	Spacer
30	104–5460–03	2	Plate–Oil Cooler Mount
31	105–3943	16	Clamp–Oil Cooler
32	3256–23	14	Washer–Flat
33	322–10	8	Screw–HH
34	104–5429	2	Wire Form–Clamp
35	325–17	2	Screw–HH
36	41–8440	4	Washer
37	104–5428	1	Bracket–Oil Cooler, Top
38	93–7275	1	Decal–Fluid, Starting
39	105–9233	1	Seal–Foam
40	105–9236	2	Seal–Foam
41	105–9814	1	Seal–Bulb
42	105–9858	1	Seal–Bulb
43	105–2841	1	Decal–Radiator

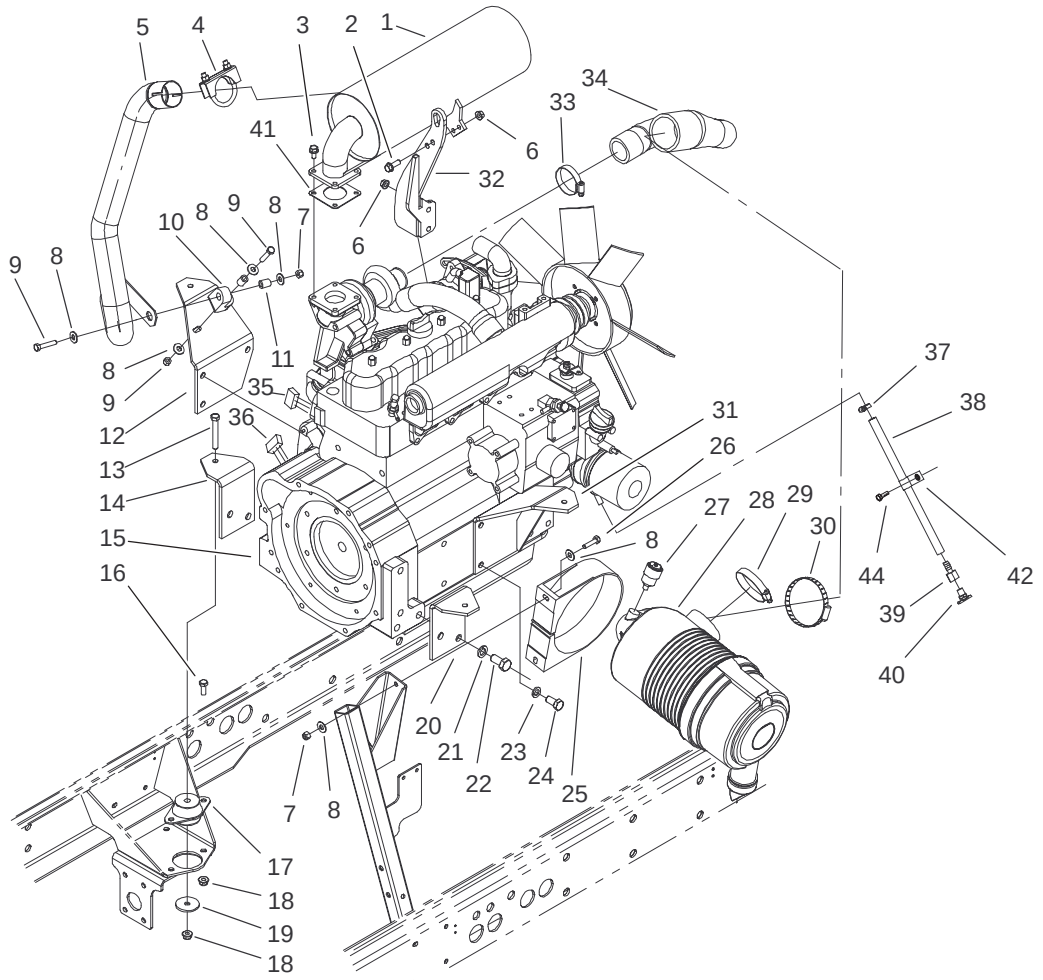


Sheet No.:13

Fan and Solenoid Assembly

Ref. No.	Part No.	Qty.	Description
1	322–2	8	Screw–HH
2	3253–4	8	Washer–Lock
3	105–0750	1	Fan
4	52–6290	4	Screw–HH
5	100–3066	1	Adapter–Fan
6	98–9346	1	Sender–Temperature
7	104–2212	1	Clutch–Fan
8	2411–38	1	Joint–Ball
9	3256–51	1	Washer–Flat
10	3296–21	1	Nut–Lock, NI
11	104–7540–03	1	Support–Cable
12	98–3817	1	Solenoid Kit
12:7	33113–025	3	Screw–HH
12:8	33113–016	2	Screw–HH
12:9	48–8020	5	Washer–Spring
12:10	33013–00	2	Nut–Hex
12:11	33093–00	3	Washer–Flat
12:12	3272–2	1	Pin–Cotter

Ref. No.	Part No.	Qty.	Description



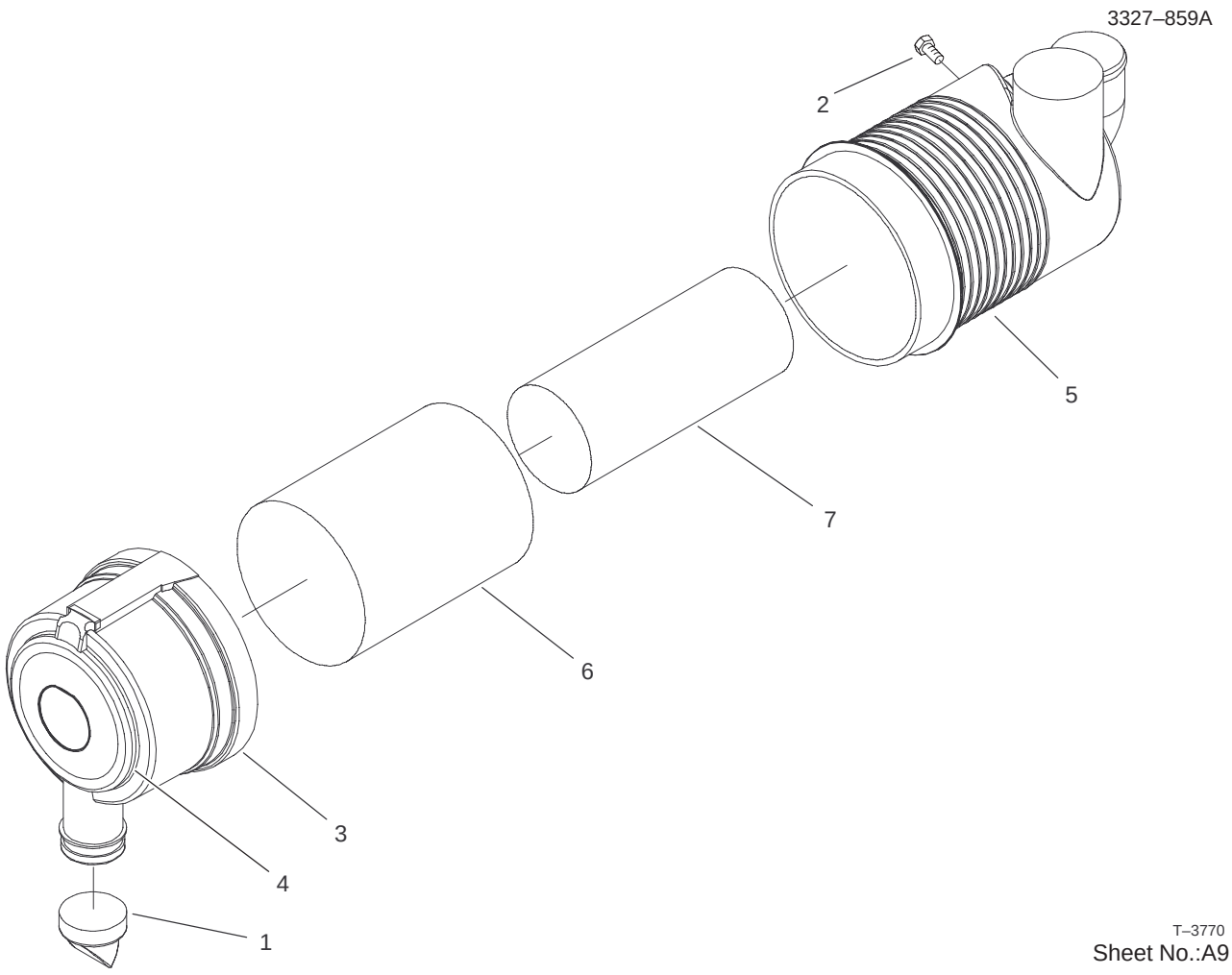
Sheet No.:14

Engine Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	99–5424	1	Muffler–Turbo
2	33104–025	4	Screw–HHF
3	33104–016	4	Screw–HHF
4	18–2130	1	Clamp–Column, Steering
5	104–5461	1	Pipe–Exhaust
6	33004–00	4	Nut–HF
7	3296–29	4	Nut–Lock, NI
8	3256–3	8	Washer–Flat
9	322–8	4	Screw–HH
10	95–5622	1	Hanger–Rubber
11	93–5023	2	Spacer
12	100–3141–03	1	RH Mount ASM
13	323–13	4	Screw–HH
14	100–3148–03	1	Mount–Engine, RH
15	99–5413	1	Engine–Turbo, Kubota
16	3234–11	8	Screw–HHF
17	53–9682	4	Rubber–Support, Engine
18	104–8301	12	Nut–Flange, NI
19	63–7400	4	Washer–Rebound
20	100–3147–03	1	Mount–Engine, LH
21	43–5950	4	Washer–Lock, Spring
22	43–3210	4	Screw–HH
23	48–8070	5	Washer–Lock
24	42–9250	5	Bolt

Ref. No.	Part No.	Qty.	Description
25	99–5414	1	Strap–Cleaner, Air
26	322–6	2	Screw–HH
27	104–3563	1	Indicator
*27:1	94–1416	1	Indicator Adapter ASM
28	99–5410	1	Cleaner–Air
29	2412–125	1	Clamp–Hose
30	2412–110	2	Clamp–Hose
31	100–3144–03	1	LH Mount ASM
32	99–5421–03	1	Bracket–Mounting
33	2412–92	1	Clamp–Hose
34	99–5415	1	Hose–Cleaner, Air
35	99–3441	1	Harness–Wire, Fusible Link
36	105–3878	1	Harness–Wire, Engine
37	2412–108	2	Clamp–Worm
38	99–7376	1	Hose–Breather
39	354–94	1	Hose–Female, Barbed
40	93–5528	1	Fitting–Cock, Drain
41	100–9333	1	Gasket–Muffler
42	2412–150	2	J–Clip
44	32144–11	2	Screw–TAP

* Not illustrated



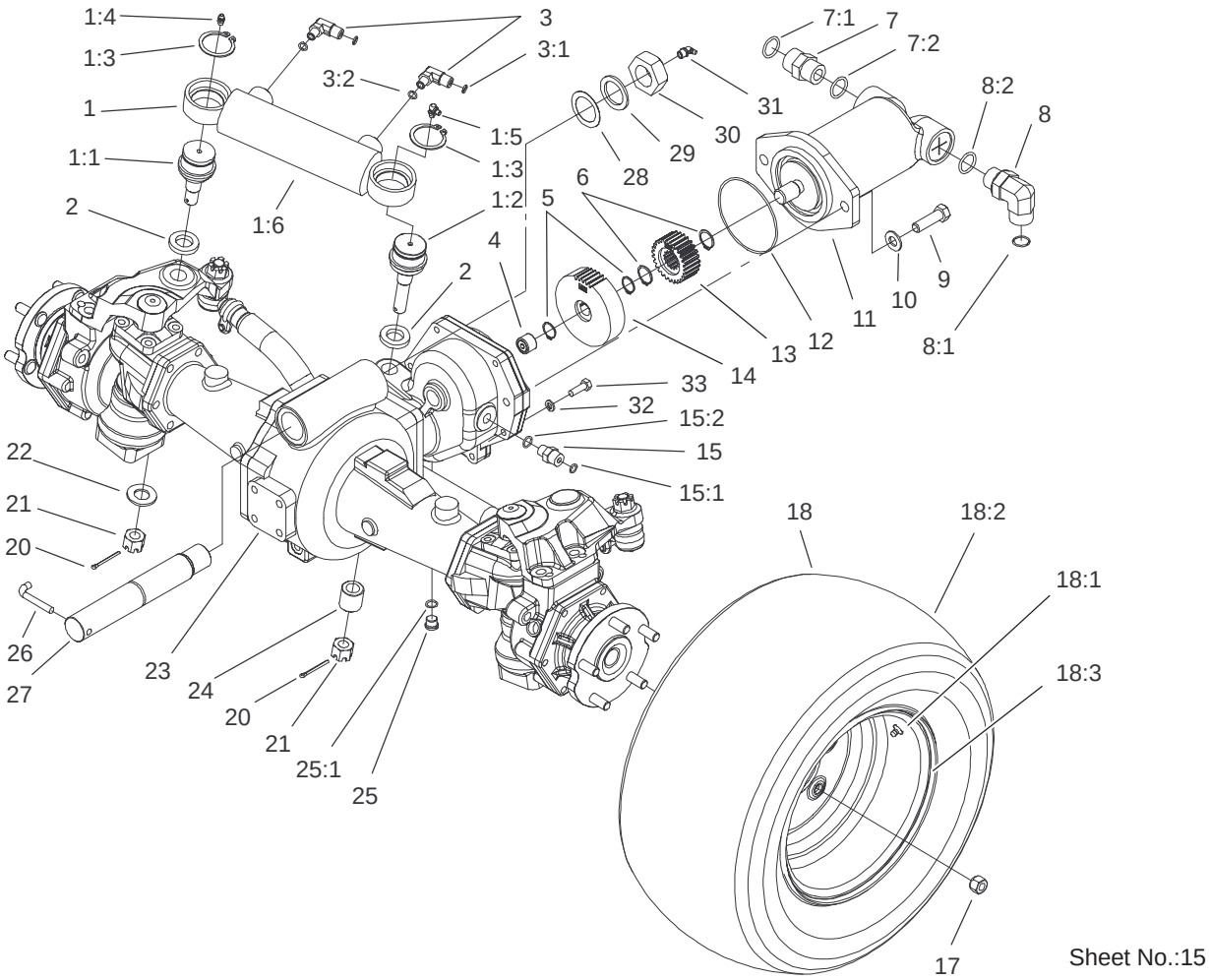
T–3770
Sheet No.:A9

Air Cleaner Assembly No. 99–5410

Ref. No.	Part No.	Qty.	Description
1	104–4258	1	Valve–Vacuator
☆2		1	Plug–Pipe
3	104–4259	1	Cover ASM
☆4		1	Marking
☆5		1	Body ASM
6	104–4260	1	Element ASM
7	104–4261	1	Element ASM

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



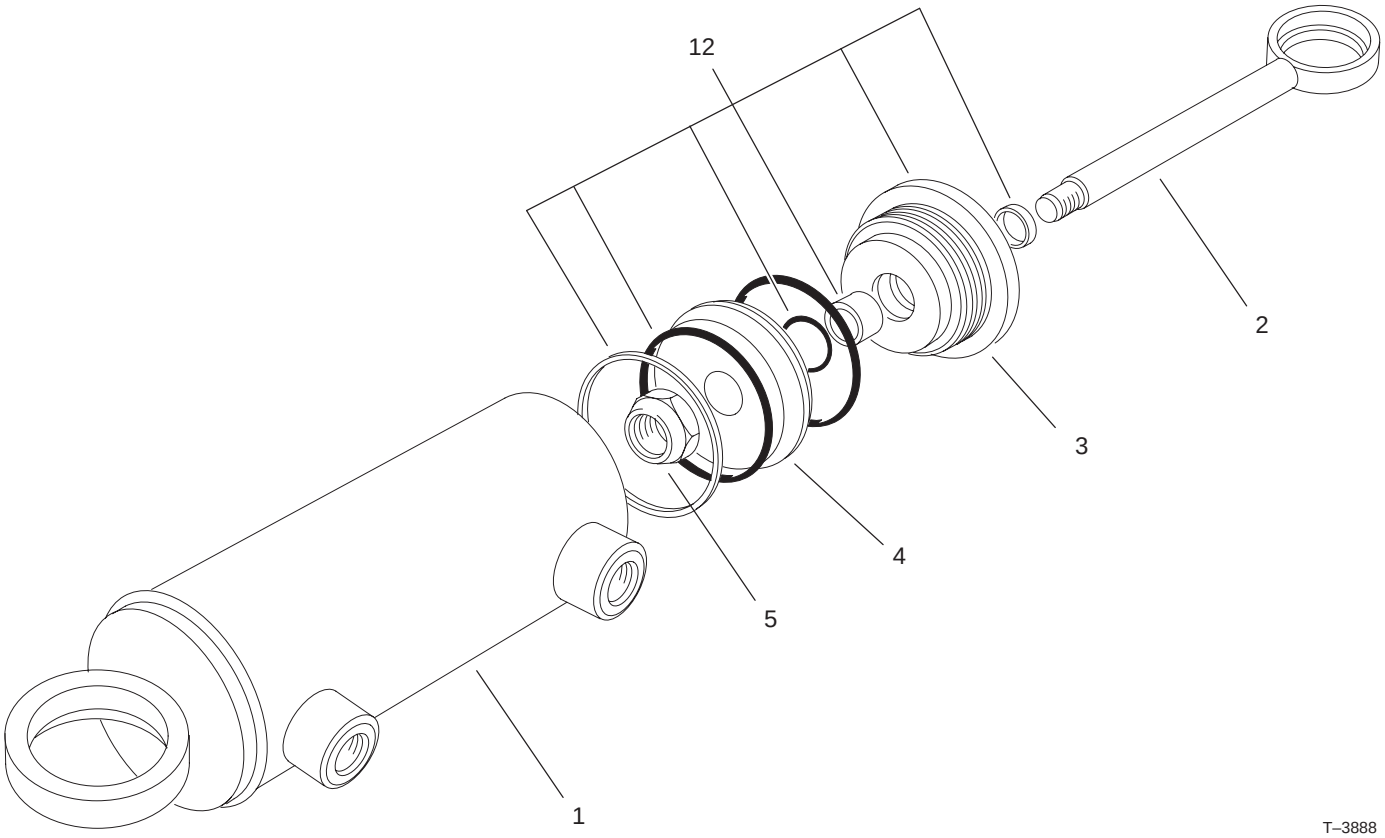
Sheet No.:15

Rear Axle Assembly

Ref. No.	Part No.	Qty.	Description
1	105–9861	1	Steering Cylinder ASM
1:1	92–5838	1	Joint–Ball
1:2	100–3795	1	Joint–Ball
1:3	32151–104	2	Ring–Retaining, Ext
1:4	302–5	1	Fitting–Grease
1:5	302–60	1	Fitting–Grease
☆1:6		1	Hydraulic Cylinder ASM
2	92–5833	2	Spacer–Joint, Ball
3	340–97	2	Fitting–HYD, 90°
3:1	237–22	1	O–Ring
3:2	237–78	1	O–Ring
4	74–5700	1	Bearing–Needle, Roller
5	32120–15	2	Ring–Snap, Ext
6	32120–76	2	Ring–Snap, Ext
7	340–9	1	Fitting–Straight
7:1	237–58	1	O–Ring
7:2	237–81	1	O–Ring
8	340–142	1	Elbow–90°
8:1	237–58	1	O–Ring
8:2	237–81	1	O–Ring
9	325–7	2	Screw–HH
10	3256–26	2	Washer–Flat
11	105–1219	1	Motor–Piston
12	237–166	1	O–Ring

Ref. No.	Part No.	Qty.	Description
13	104–0755	1	Pinion–27t
14	100–3053	1	Gear–45t
15	340–2	1	Fitting–HYD, Straight
15:1	237–22	1	O–Ring
15:2	237–42	1	O–Ring
17	93–5268	10	Nut–Lug
☆18		2	Tire & Wheel ASM
18:1	232–27	1	Stem–Valve
18:2	104–0451	1	Tire
18:3	105–9219	1	Wheel
20	3272–12	2	Pin–Cotter
21	32136–14	2	Nut–SHH
22	92–5836	1	Washer–Axle
23	100–3784	1	Drive Axle ASM
24	100–3796	1	Spacer–Joint, Ball
25	353–989	1	Plug–Hex, Hollow
25:1	237–42	1	O–Ring
26	100–3771	1	Pin–Stop
27	100–3770	1	Pin–Axle, Pivot
28	92–1765	1	Washer–Thrust
29	98–3867	2	Washer–Thrust
30	3296–68	1	Nut–Lock NI
31	302–33	1	Fitting–Grease
32	3253–4	6	Washer–Lock
33	33114–025	6	Screw–HH

☆ Not serviced separately



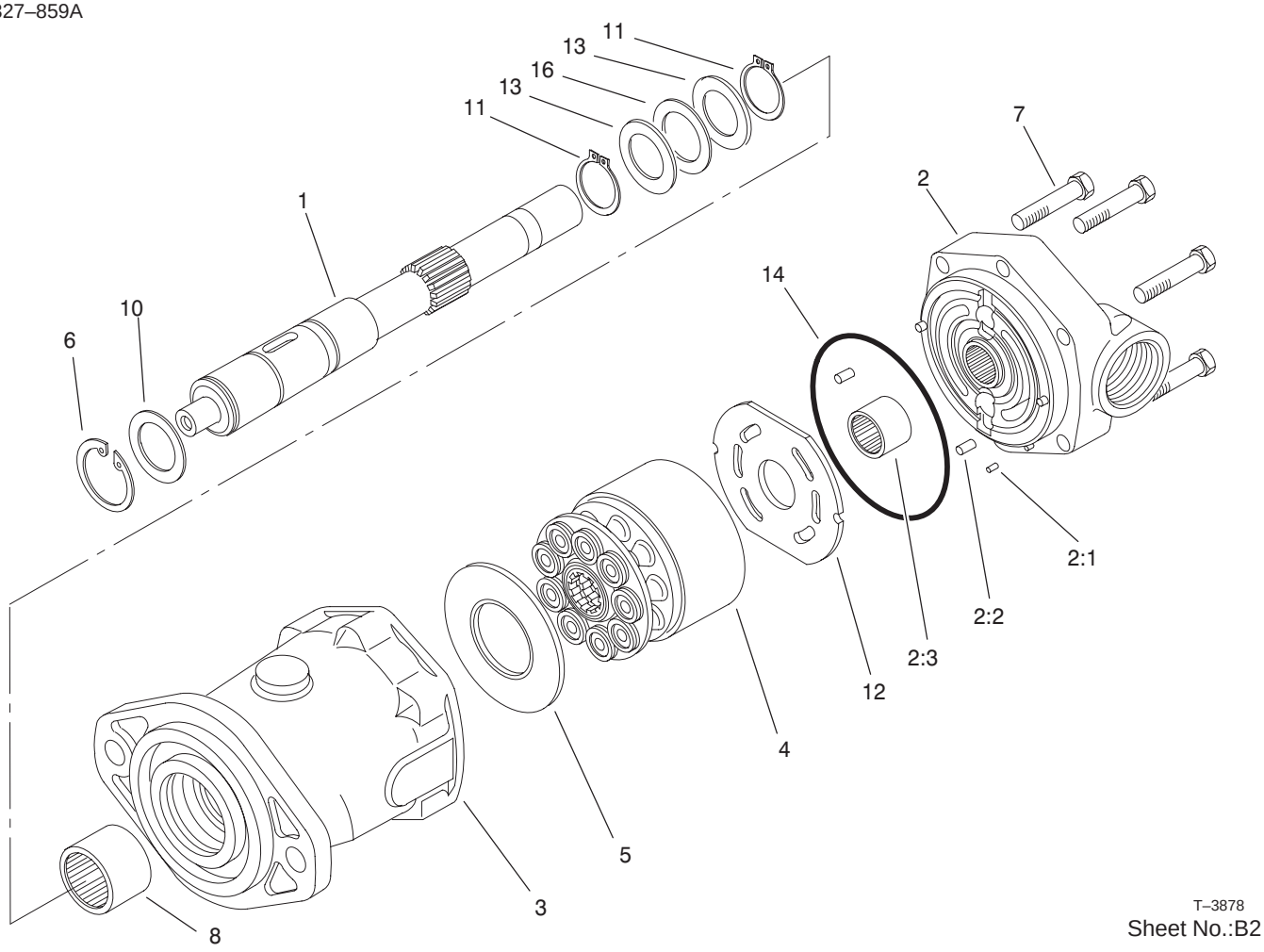
T–3888

Sheet No.:B1

Cylinder Assembly No. 105–9861

Ref. No.	Part No.	Qty.	Description
1	99–4753	1	Butt And Tube ASM
2	99–4754	1	Piston And Rod ASM
3	66–1940	1	Piston
4	92–6588	1	Gland
5	66–1930	1	Locknut
12	92–6593	1	Kit–Seal

Ref. No.	Part No.	Qty.	Description



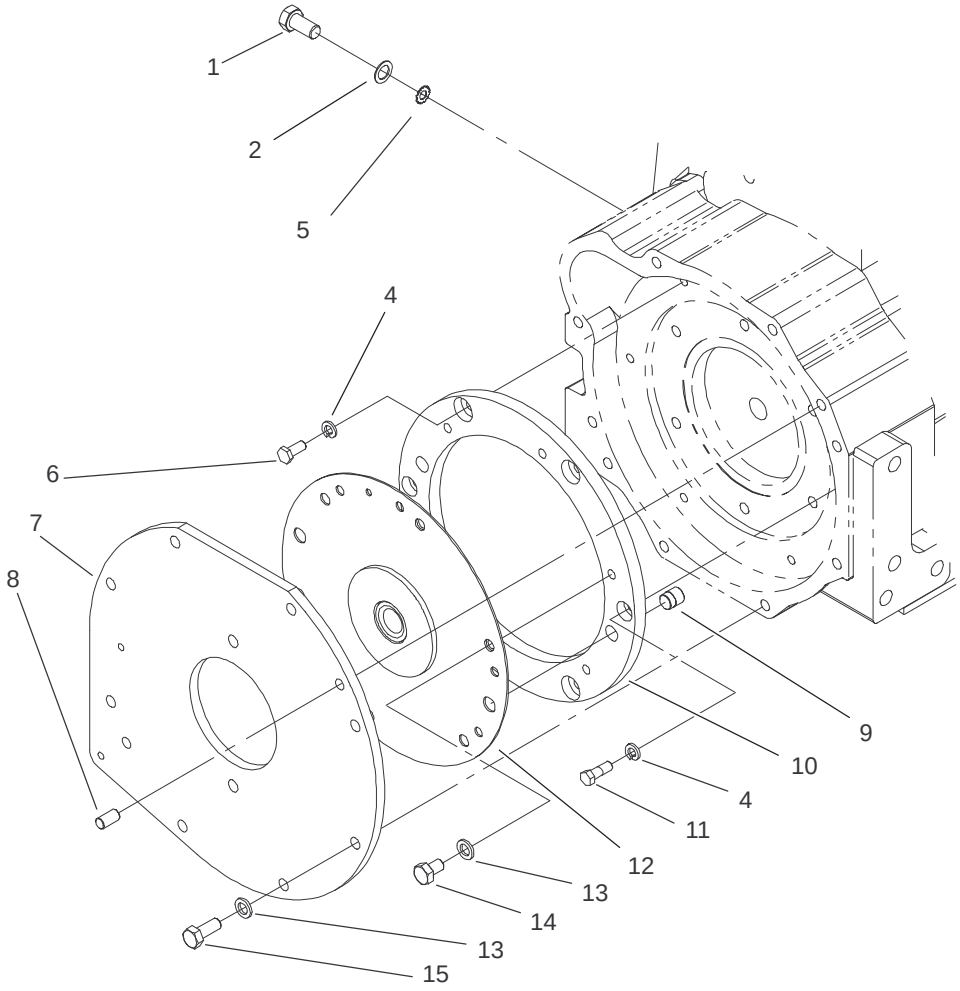
T–3878
Sheet No.:B2

Piston Motor Assembly No. 105–1219

Ref. No.	Part No.	Qty.	Description
1	105–2853	1	Shaft–Drive
2	100–2551	1	Backplate
☆2:1		3	Pin–Dowel
☆2:2		1	Pin–Dowel
☆2:3		1	Bearing–Needle
☆3		1	Housing
4	76–6910	1	Rotating Kit
5	76–6970	1	Insert–Plate, Cam
6	60–6260	1	Ring
7	94–3002	6	Capscrew
8	63–4390	1	Bearing–Needle
10	76–7020	1	Spacer
11	76–7000	2	Ring–Retaining
12	94–3003	1	Plate–Valve
13	60–6160	2	Race
14	76–6980	1	O–Ring
16	60–6170	1	Bearing–Thrust

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

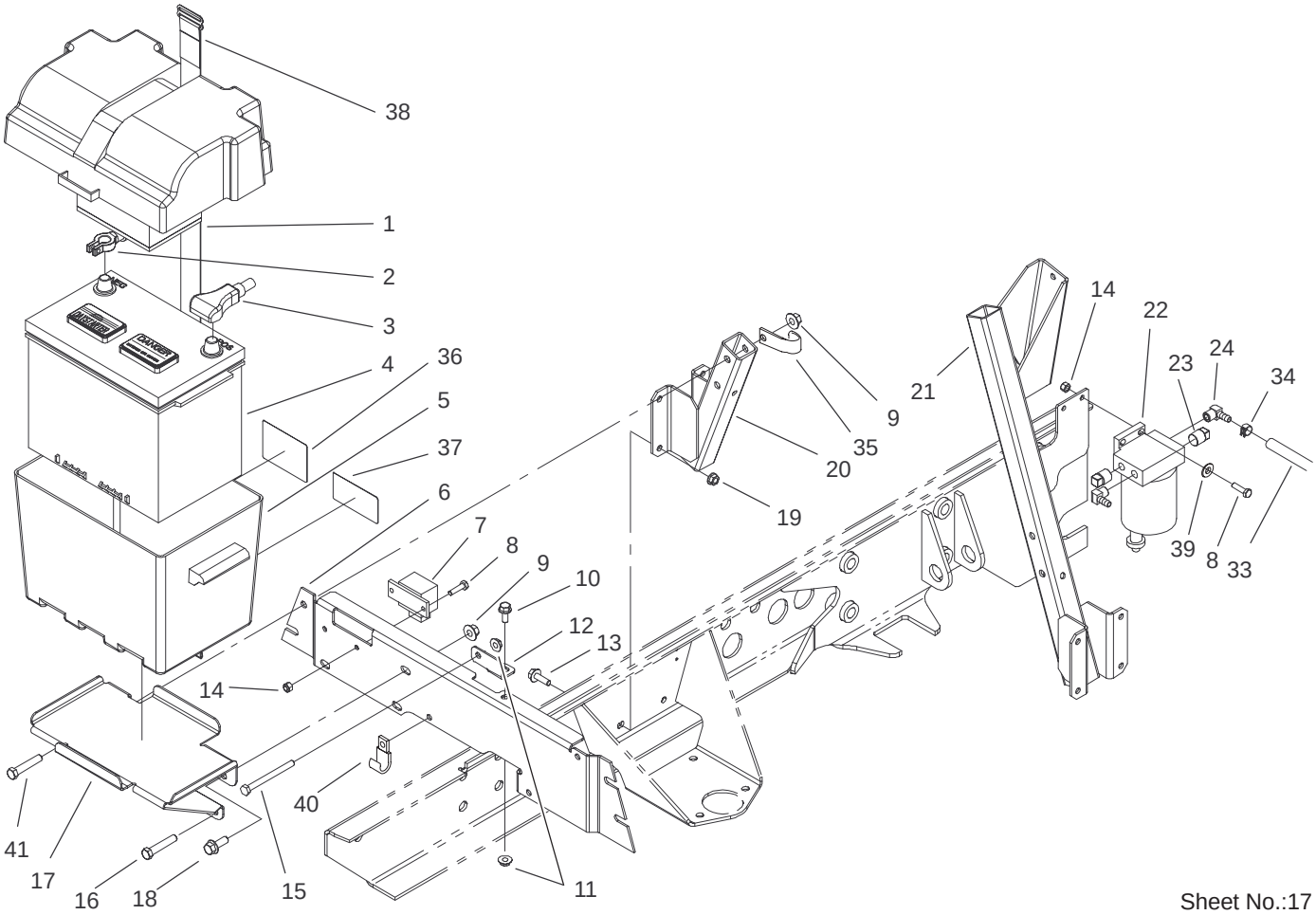


Sheet No.:16

Coupler Spacer and Adapter Plate Assembly

Ref. No.	Part No.	Qty.	Description
1	42–9250	1	Bolt
2	3255–2	1	Washer–Lock/Ext
4	42–9850	6	Washer–Lock, Spring
5	3255–9	1	Washer–Lock/Ext
6	33114–020	4	Screw–HH
7	100–5632–03	1	Plate–Adapter
8	100–5635	2	Pin–Plate
9	58–3590	2	Dowel
10	100–5633	1	Spacer–Coupling
11	100–5634	2	Bolt–Shoulder
12	92–1753	1	Coupling–Spring
13	48–9590	15	Washer–Lock
14	70–8470	6	Screw–HH
15	43–0090	9	Screw–HH

Ref. No.	Part No.	Qty.	Description

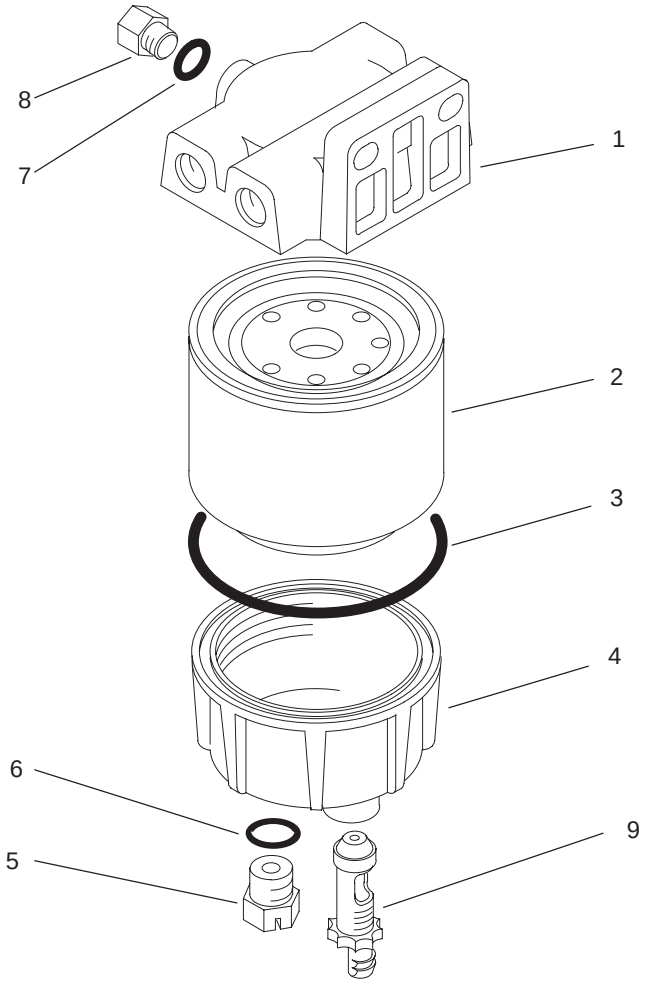


Sheet No.:17

Battery Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	93–7968	1	Pad–Foam
2	105–3880	1	Cable–Battery, Negative
3	105–0114	1	Cable–Battery, Positive
4	93–3220	1	Battery
5	93–7595	1	Box–Battery
6	104–5422–03	1	Bracket–Battery Support
7	66–8800	1	Relay
8	321–6	4	Screw–HH
9	32128–43	6	Nut–Flange
10	3234–5	4	Screw
11	32128–44	5	Nut
12	104–5487	1	Bracket–L
13	3234–29	8	Screw–HHF
14	3296–42	6	Nut–Lock, NI
15	322–22	4	Screw–HH
16	323–11	3	Screw–HH
17	104–5423–03	1	Tray–Battery
18	3234–11	2	Screw–HHF
19	32128–20	14	Nut–HF
20	104–5420–03	1	Battery Support ASM
21	104–5417–03	1	A/C Bracket ASM
22	98–9305	1	Filter–Water/Fuel
23	281–13	2	Plug–Pipe

Ref. No.	Part No.	Qty.	Description
24	353–781	2	Fitting
33	63–7627	1	Hose–Fuel
34	92–2379	3	Clamp–Hose
35	2412–81	3	Clamp
36	93–6668	1	Decal–Battery
37	93–7276	1	Decal–Danger
38	94–1445	1	Strap–Battery
39	3256–22	2	Washer–Flat
40	2412–150	4	J–Clip
41	323–12	1	Screw–HH



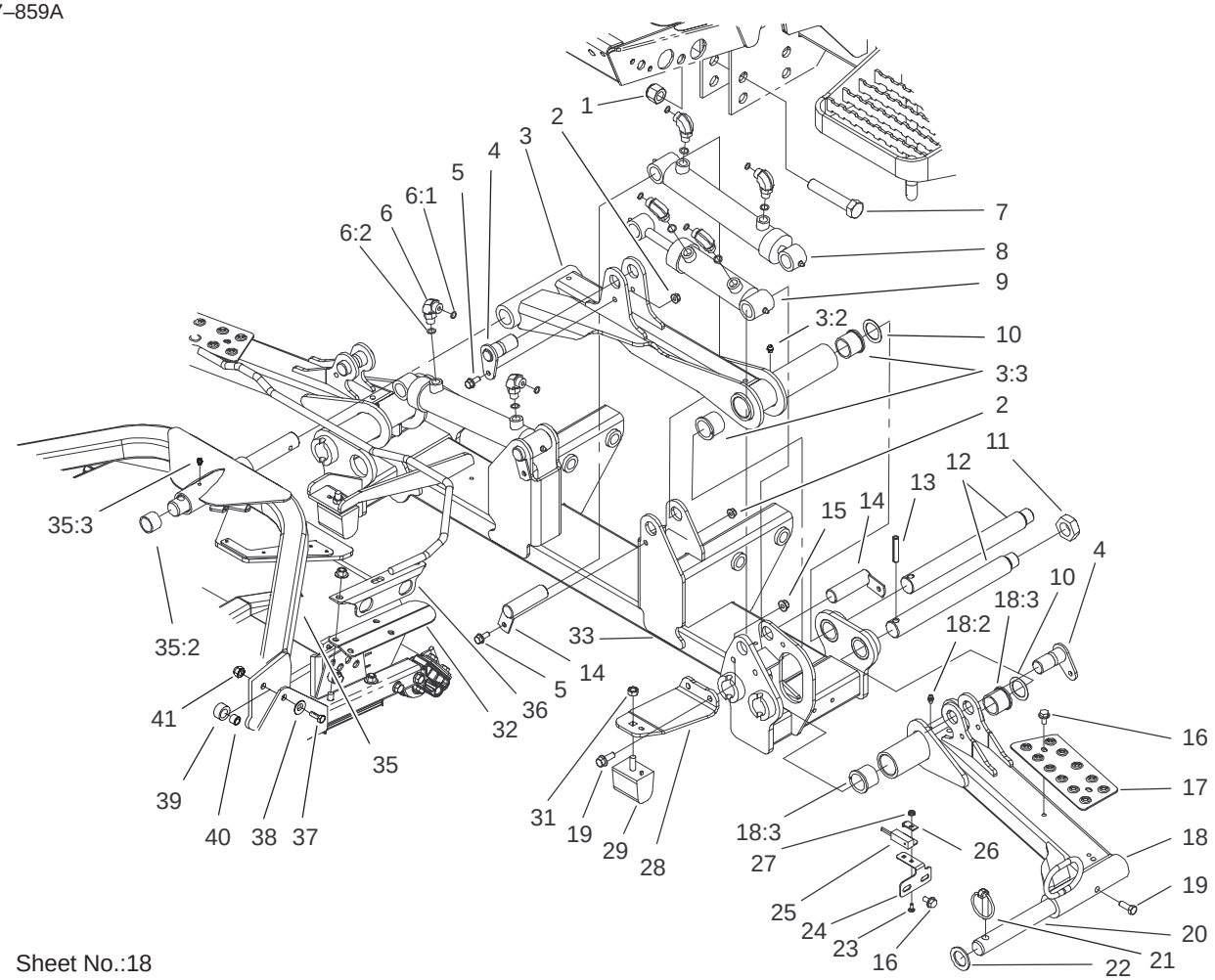
T–3330

Sheet No.:B3

Water and Fuel Filter Assembly No. 98–9305

Ref. No.	Part No.	Qty.	Description
1	98–9772	1	Head–Filter
2	98–9764	1	Element–On, Spin
3	98–9774	1	O–Ring–Base, Filter
4	98–9775	1	Base–Filter
5	98–9773	1	Plug–Base, Filter
6	237–42	1	O–Ring
7	237–78	1	O–Ring
8	98–9776	1	Plug–Head, Filter
9	98–9777	1	Drain Valve ASM
99	281–13	2	Plug–Pipe

Ref. No.	Part No.	Qty.	Description



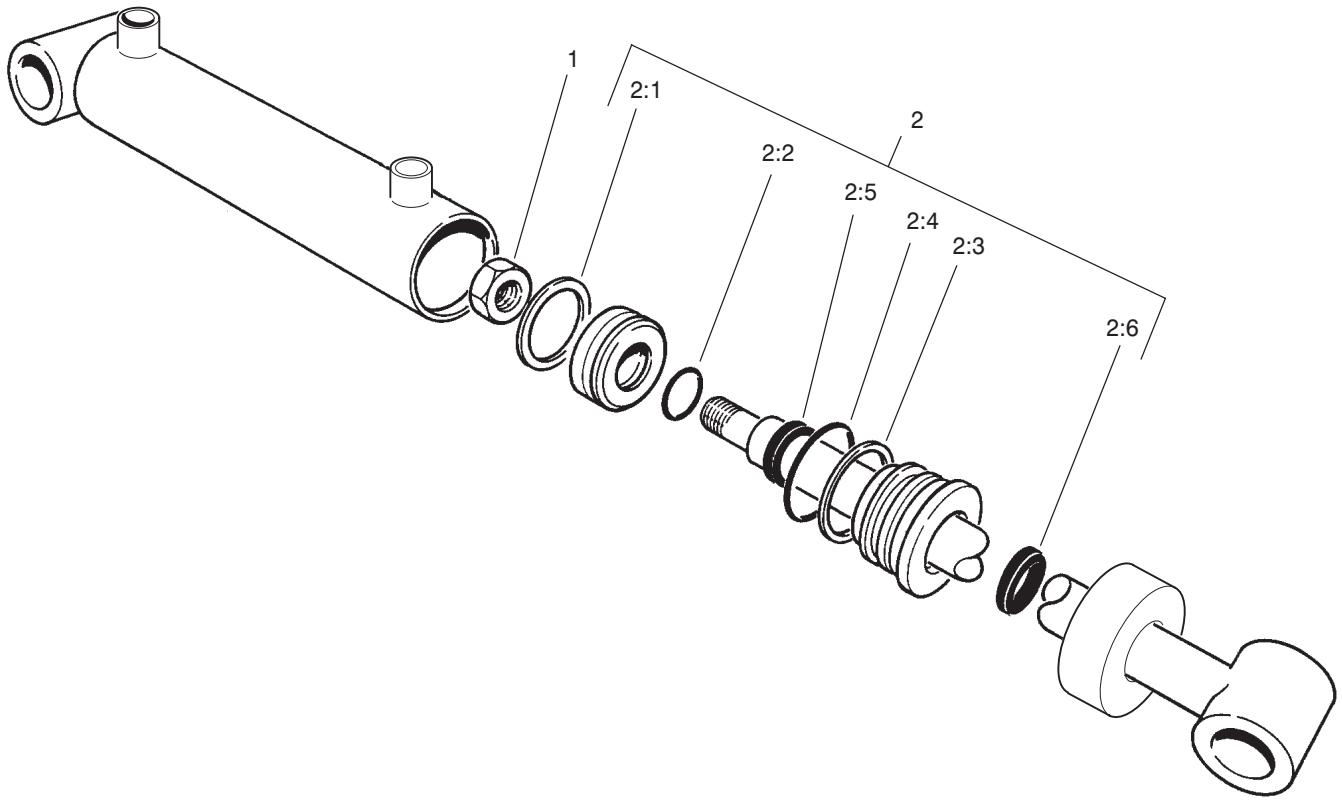
Sheet No.:18

Front Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	3296–51	4	Nut–Lock, NI
2	104–8300	6	Nut–Flange, NI
3	105–9201	1	No. 1 Lift Arm ASM
3:2	302–60	1	Fitting–Grease
3:3	104–0015	2	Bushing–Flange
4	104–5525	3	Cylinder Pin ASM
5	3234–5	6	Screw
6	340–77	6	Fitting–HYD, 90°
6:1	237–22	1	O–Ring
6:2	237–42	1	O–Ring
7	328–7	4	Screw–HH
8	104–5527	2	Cylinder–Lift #4, 5
9	104–5528	1	Cylinder–Lift #1
10	76–2980	3	Washer–Thrust
11	3296–49	3	Nut–Lock NI
12	95–7158	3	Pin–Pivot
13	32121–110	3	Pin–Roll, Slotted
14	83–6780	3	Pin–Cylinder
15	104–8301	6	Nut–Flange, NI
16	32144–14	8	Screw–HWH
17	105–3987–03	2	Plate–Skid
18	105–9205	1	No. 5 Lift Arm ASM
18	105–9204	1	No. 4 Lift Arm ASM
18:2	302–5	1	Fitting–Grease
18:3	104–0015	2	Bushing–Flange
19	323–6	5	Screw–HH

Ref. No.	Part No.	Qty.	Description
20	95–8979	3	Shaft
21	283–71	3	Pin–Lynch
22	3–6781	3	Washer–Thrust
23	104–1450	2	Bolt–CARR
24	104–5585	2	Bracket–Switch
25	100–1270	2	Switch–Proximity
26	100–4872	2	Plate–Switch, Neutral
27	32149–7	2	Nut–Keps
28	104–5689–03	1	Bracket–Support, Bumper
29	87–3470	2	Bumper–Axle, Rear
31	33025–00	2	Nut–Lock
32	105–9831–01	2	Bracket–Bumper, No.1
33	104–5680–03	1	Front Carrier Frame ASM
35	104–5656	7	Carrier Frame ASM
35:2	95–8795	2	Bushing
35:3	302–5	1	Fitting–Grease
36	106–2653–01	6	Foot Guard ASM
37	3234–18	14	Screw–HHF
38	93–8806	14	Washer–Hardened
39	105–9823	14	Bushing–Carrier
40	105–9822	14	Spacer
41	32128–43	14	Nut–Flange
*99	3334–945	2	Tie–Cable
*99	3290–379	6	Tie–Cable

* Not illustrated



T–3872

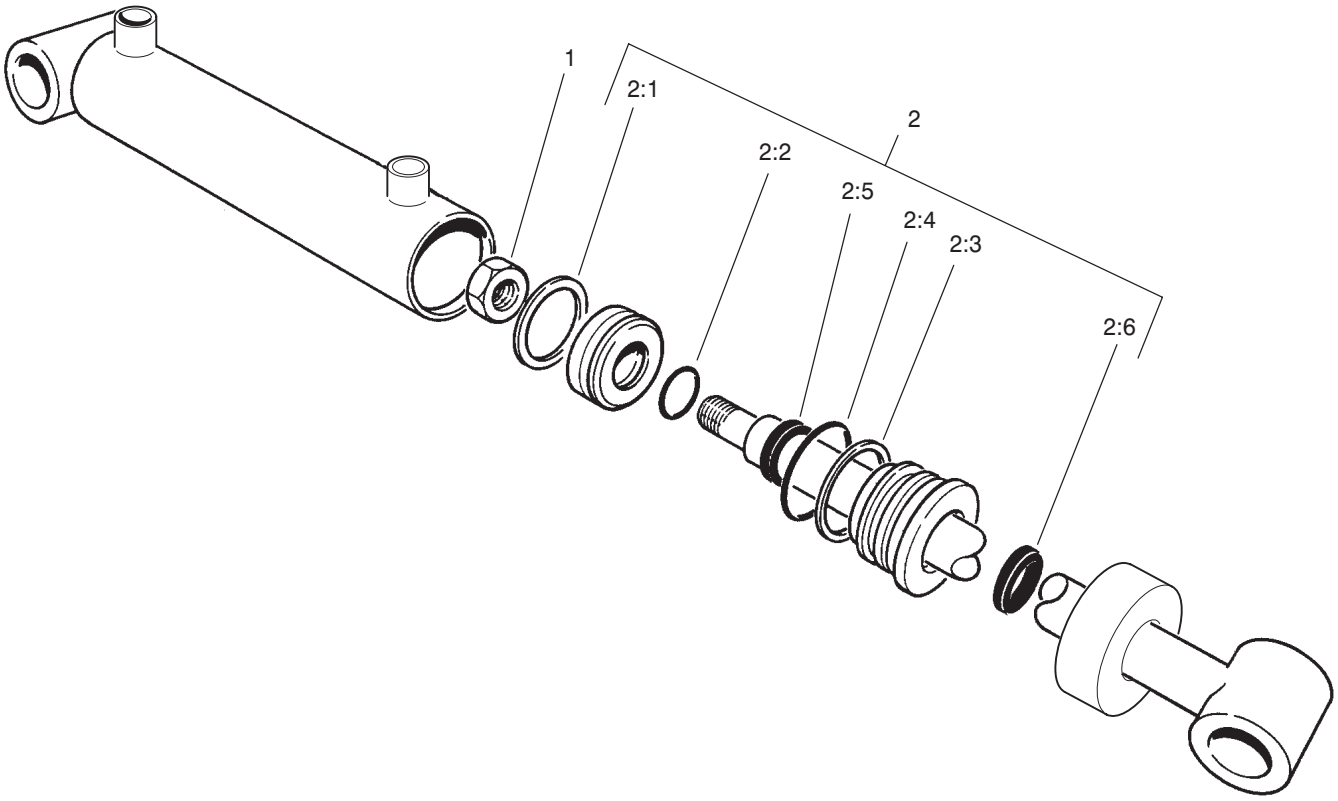
Sheet No.:B4

No. 4 and 5 Lift Cylinder Assembly No. 104–5527

Ref. No.	Part No.	Qty.	Description
1	32152–10	1	Locknut
2	104–5847	1	Kit–Seal
☆2:1		2	O–Ring
☆2:2		1	O–Ring
☆2:3		2	O–Ring, Backup
☆2:4		1	T–Seal
☆2:5		2	Seal–Rod
☆2:6		2	Seal–Dust

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



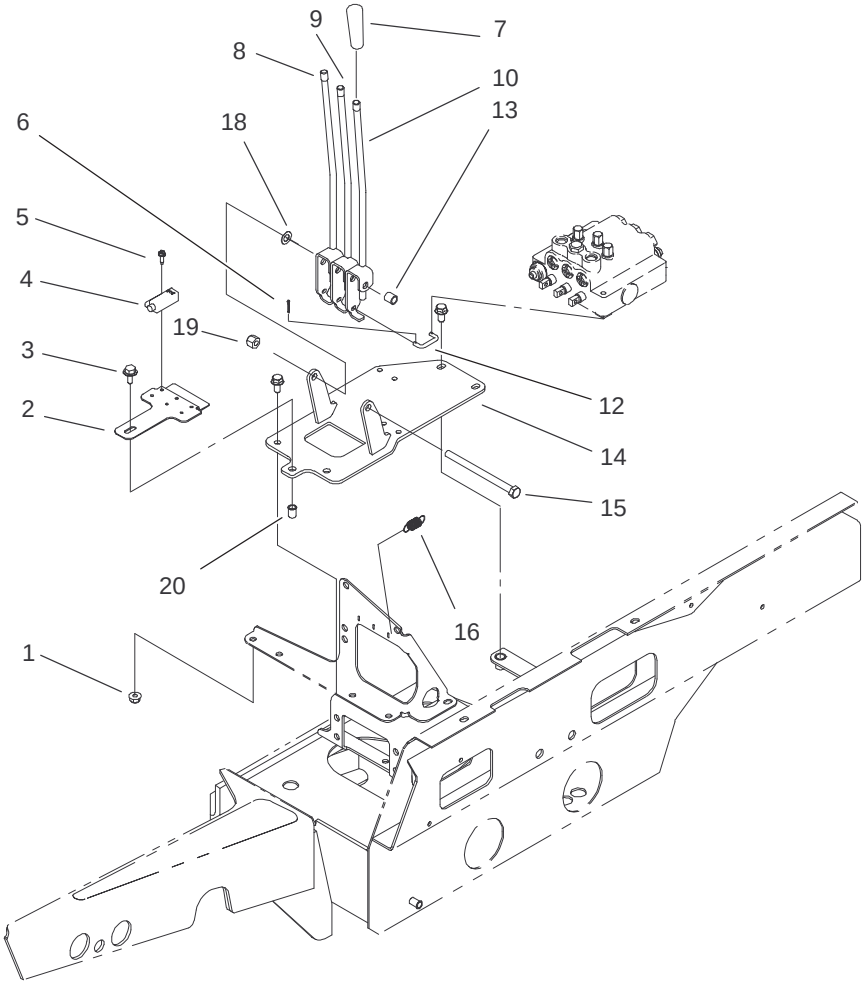
Sheet No.:B5

No. 1 Lift Cylinder Assembly No. 104–5528

Ref. No.	Part No.	Qty.	Description
1	32152–10	1	Locknut
2	104–5847	1	Kit–Seal
☆2:1		2	O–Ring
☆2:2		1	O–Ring
☆2:3		2	O–Ring, Backup
☆2:4		1	T–Seal
☆2:5		2	Seal–Rod
☆2:6		2	Seal–Dust

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

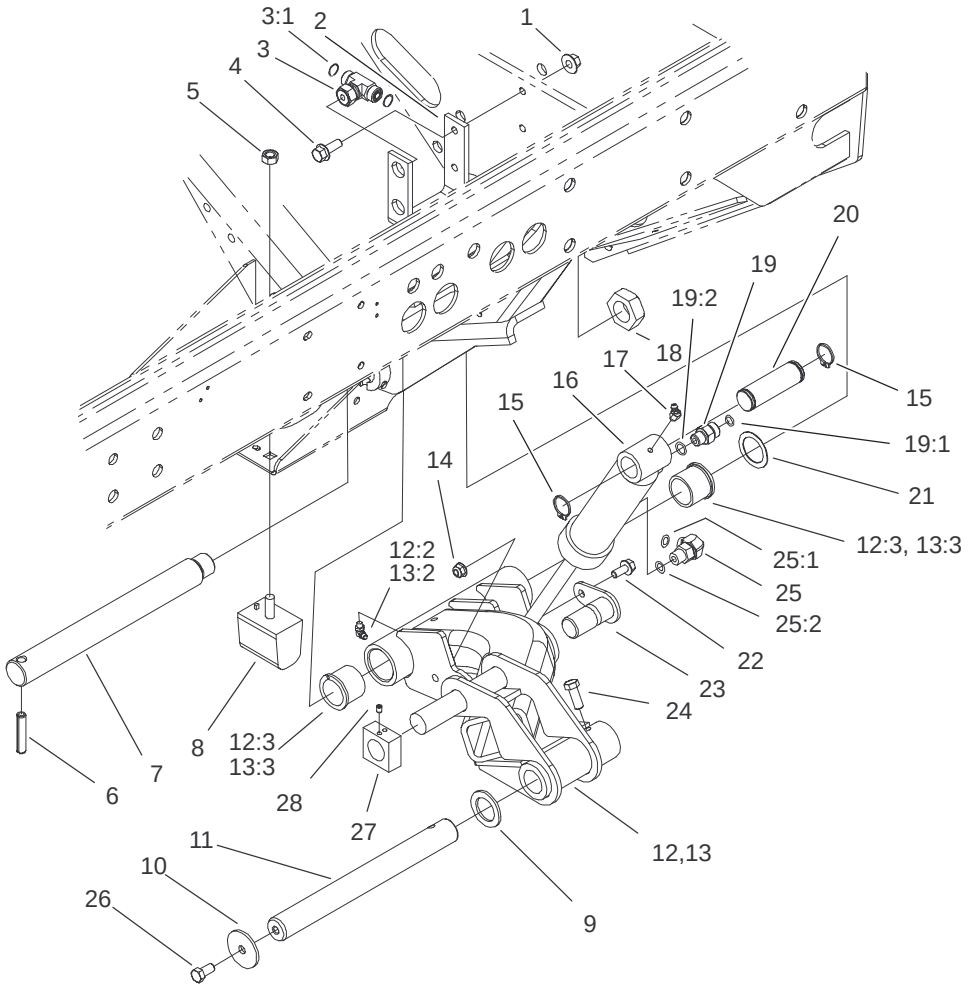


Sheet No.:19

Lift Lever Assembly

Ref. No.	Part No.	Qty.	Description
1	104–8300	4	Nut–Flange, NI
2	104–5530–03	1	Plate–Switch
3	3234–4	1	Screw–HHF
4	105–0023	3	Switch–Proximity
5	32144–19	6	Screw–Forming, Thread
6	3272–1	6	Pin–Cotter
7	233–39	3	Knob–Control
8	104–5617	1	Right Lever ASM
9	104–5616	1	Center Lever ASM
10	104–5618	1	Left Lever ASM
12	69–9140	3	Link–Levers, Valve
13	65–9980	1	Spacer
14	104–5606–03	1	Valve Support ASM
15	323–39	1	Screw–HH
16	105–3938	3	Spring–Extension
18	3290–477	1	Washer–Curved
19	3296–39	1	Nut–Lock, NI
20	32148–6	1	Nut–Insert

Ref. No.	Part No.	Qty.	Description

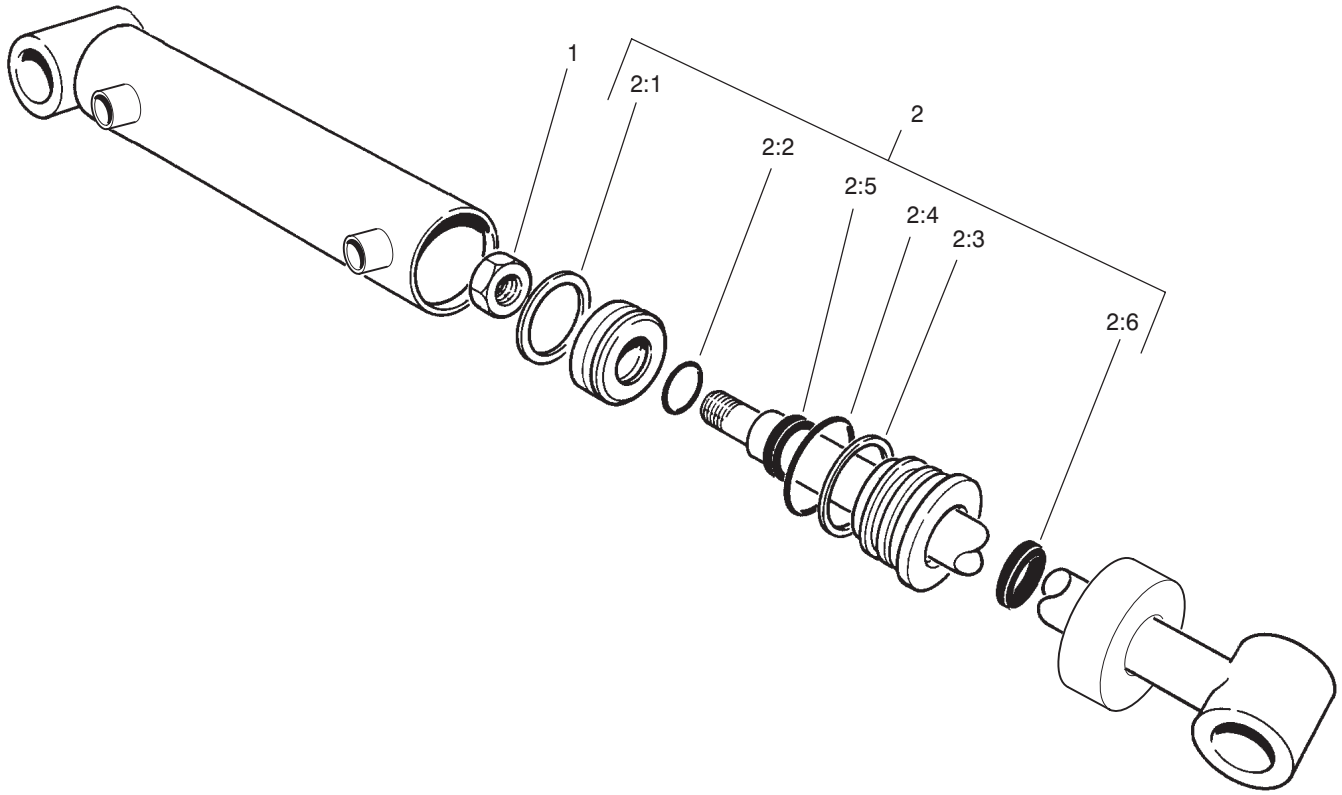


Sheet No.:20

No. 2 and 3 Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	32128–20	2	Nut–HF
2	105–3992–03	1	Bracket–Bulkhead
3	340–166	2	Fitting–Tee, HYD
3:1	237–22	1	O–Ring
4	3234–17	2	Screw–HHF
5	33025–00	2	Nut–Lock
6	32121–110	2	Pin–Roll, Slotted
7	95–7158	2	Pin–Pivot
8	87–3470	2	Bumper–Axle, Rear
9	3–6781	2	Washer–Thrust
10	63–7400	2	Washer–Rebound
11	105–9827	2	Shaft–C/U, Pivot
12	105–9202	1	No. 2 Lift Arm ASM
12:2	302–60	1	Fitting–Grease
12:3	104–0015	2	Bushing–Flange
13	105–9203	1	No. 3 Lift Arm ASM
13:2	302–60	1	Fitting–Grease
13:3	104–0015	2	Bushing–Flange
14	104–8300	2	Nut–Flange, NI
15	32151–36	4	Ring–Retaining
16	104–5526	2	Cylinder–Lift #2, 3
17	302–11	2	Fitting–Lube, 45°
18	3296–49	2	Nut–Lock NI
19	340–2	2	Fitting–HYD, Straight
19:1	237–22	1	O–Ring
19:2	237–42	1	O–Ring

Ref. No.	Part No.	Qty.	Description
20	92–7548	2	Pin–Cylinder
21	76–2980	2	Washer–Thrust
22	3234–5	2	Screw
23	104–5525	2	Cylinder Pin ASM
24	323–6	2	Screw–HH
25	340–77	2	Fitting–HYD, 90°
25:1	237–22	1	O–Ring
25:2	237–42	1	O–Ring
26	323–4	2	Screw–HH
27	105–9839	2	Stop–Rotation, No. 2 & 3
28	3245–7	4	Screw



T–3873

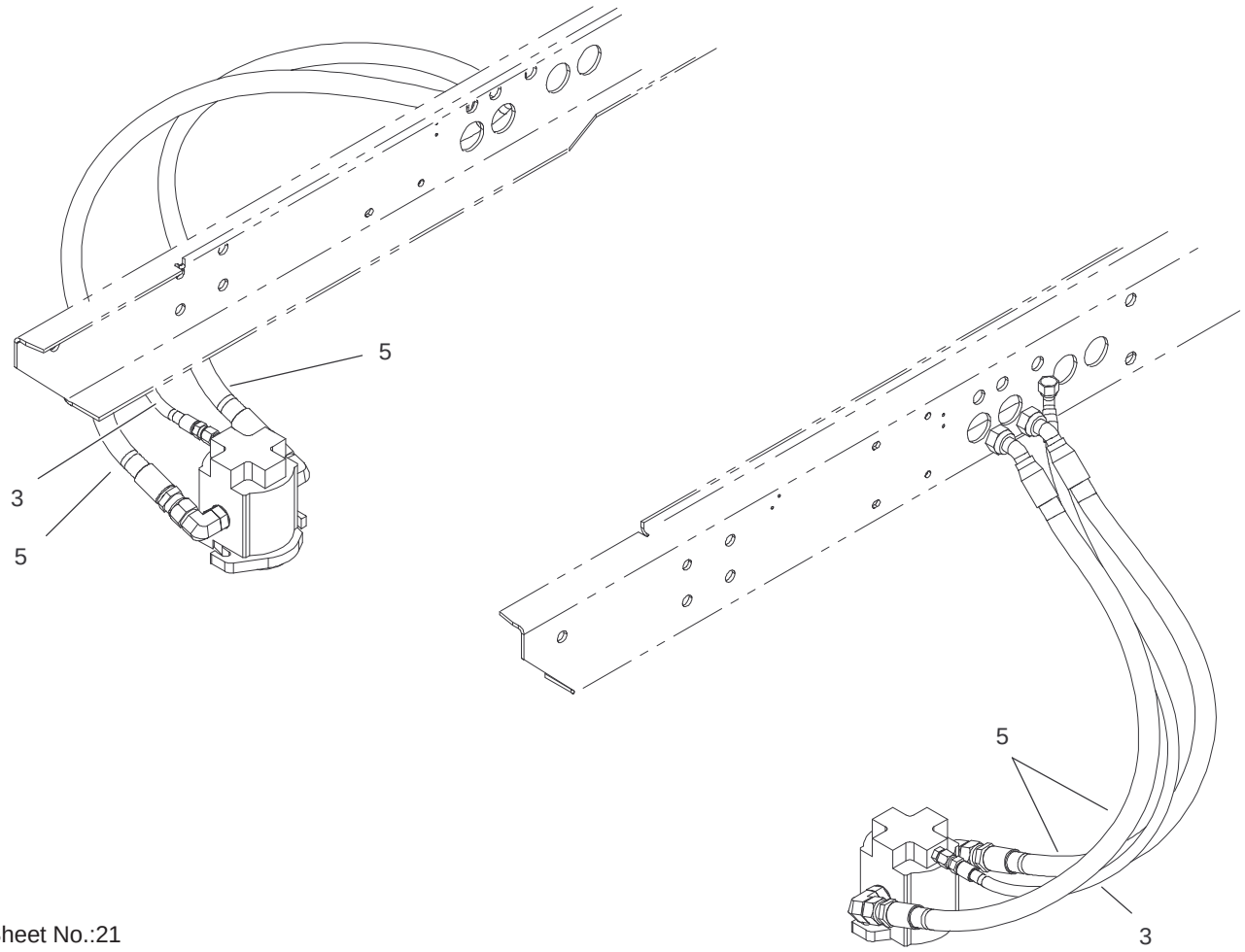
Sheet No.:B8

No. 2 and 3 Lift Cylinder Assembly No. 104–5526

Ref. No.	Part No.	Qty.	Description
1	32152–10	1	Locknut
2	104–5847	1	Kit–Seal
☆2:1		2	O–Ring
☆2:2		1	O–Ring
☆2:3		2	O–Ring, Backup
☆2:4		1	T–Seal
☆2:5		2	Seal–Rod
☆2:6		2	Seal–Dust

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

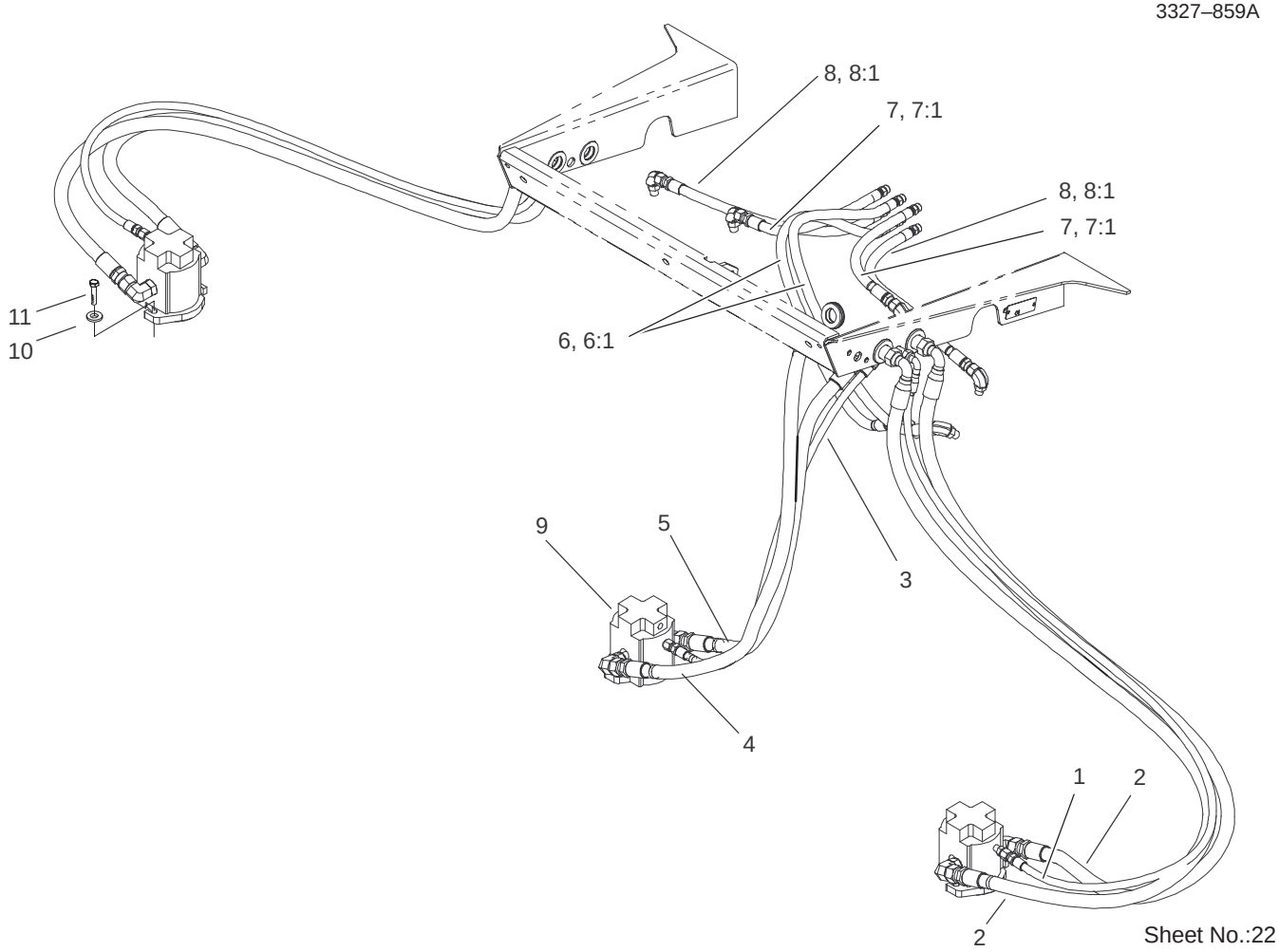


Sheet No.:21

Hose Installation Assembly

Ref. No.	Part No.	Qty.	Description
3	104–5502	2	Hose ASM
5	104–5505	4	Hose ASM

Ref. No.	Part No.	Qty.	Description

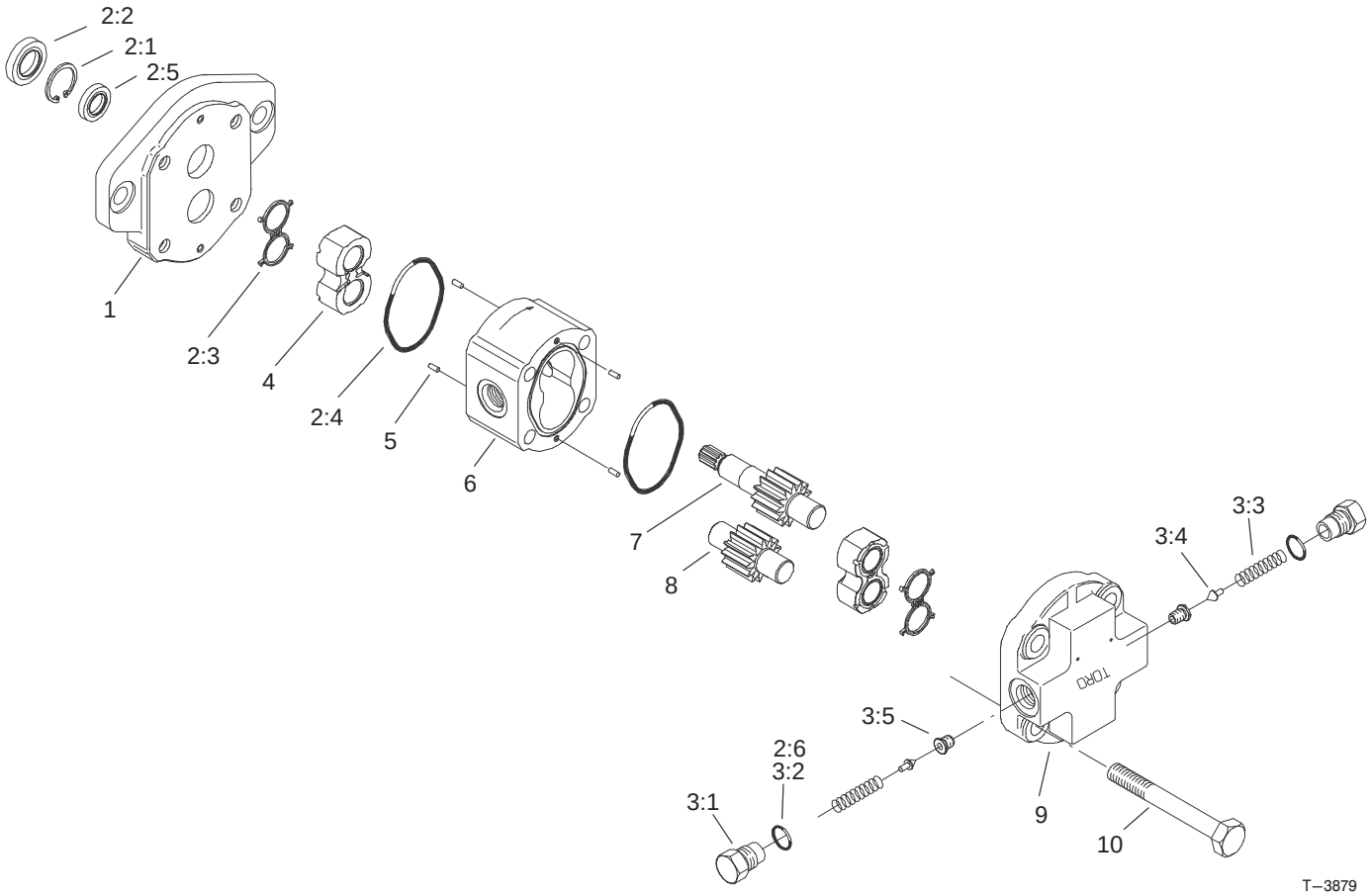


Sheet No.:22

No. 1, 4 and 5 Hose Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5500	2	Hose ASM
2	104–5501	4	Hose ASM
3	104–5502	1	Hose ASM
4	104–5504	1	Hose ASM
5	104–5505	1	Hose ASM
6	104–5511	2	Hose ASM
6:1	237–42	1	O–Ring
7	104–5512	2	Hose ASM
7:1	237–42	1	O–Ring
8	104–5513	2	Hose ASM
8:1	237–42	1	O–Ring
9	105–9820	7	Motor–HYD
10	3256–24	14	Washer–Flat
11	3274–7	14	Screw–HSH

Ref. No.	Part No.	Qty.	Description



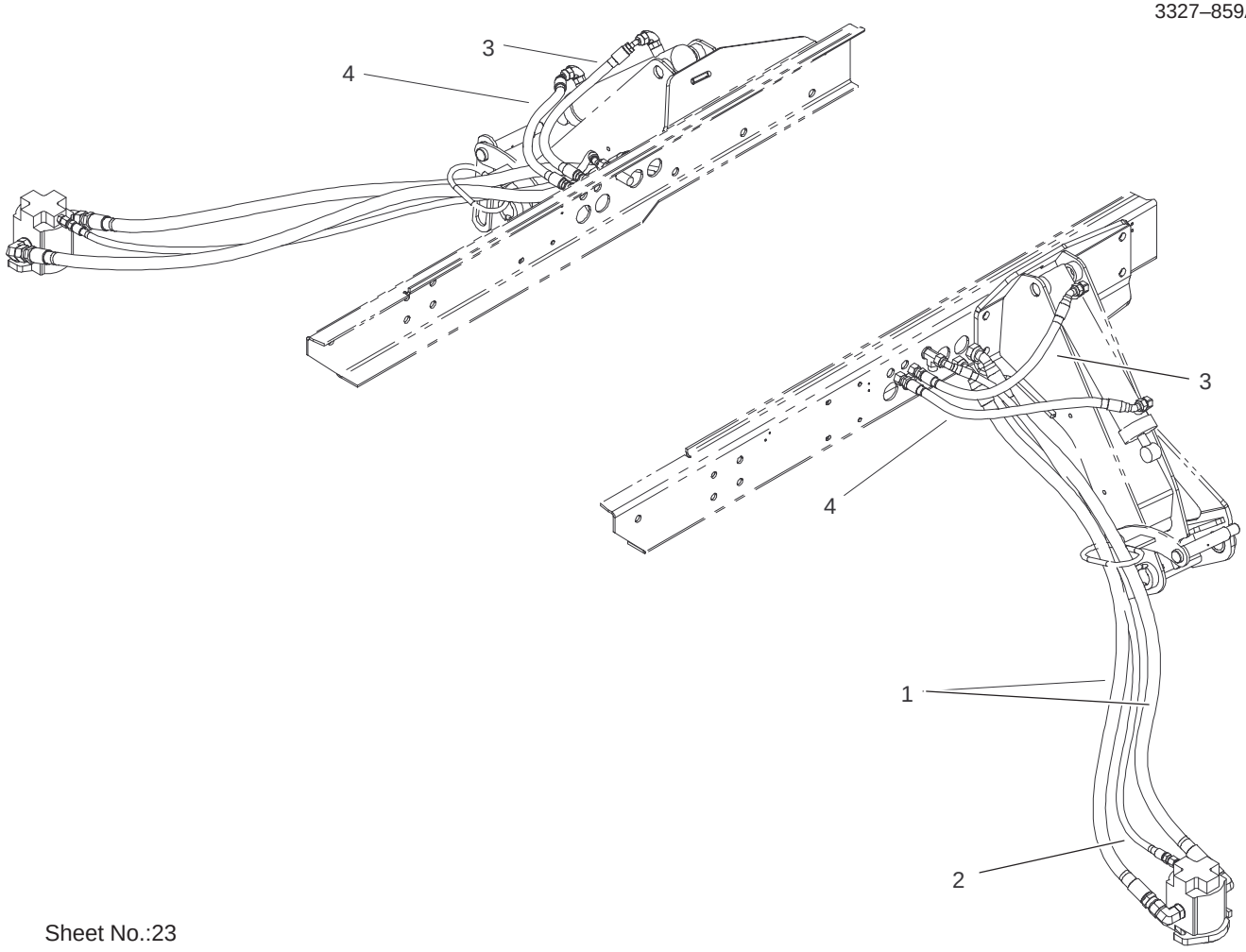
Sheet No.:B9

Hydraulic Motor Assembly No. 105–9820

Ref. No.	Part No.	Qty.	Description
☆1		1	Flange
2	105–9191	1	Seal Kit
☆2:1		1	Ring–Retaining
☆2:2		1	Seal–Shaft
☆2:3		2	Seal
☆2:4		2	O–Ring
☆2:5		1	Seal–Shaft
☆2:6		2	O–Ring
3	105–9192	2	Relief Valve Kit
☆3:1		1	Cap–Rv
☆3:2		1	O–Ring
☆3:3		1	Spring
☆3:4		1	Poppet
☆3:5		1	Seat–Rv
☆4		2	Block–Bushing
☆5		4	Pin–Dowel
☆6		1	Housing
☆7		1	Gear–Drive
☆8		1	Gear–Idler
☆9		1	Block–Valve
☆10		4	Bolt

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

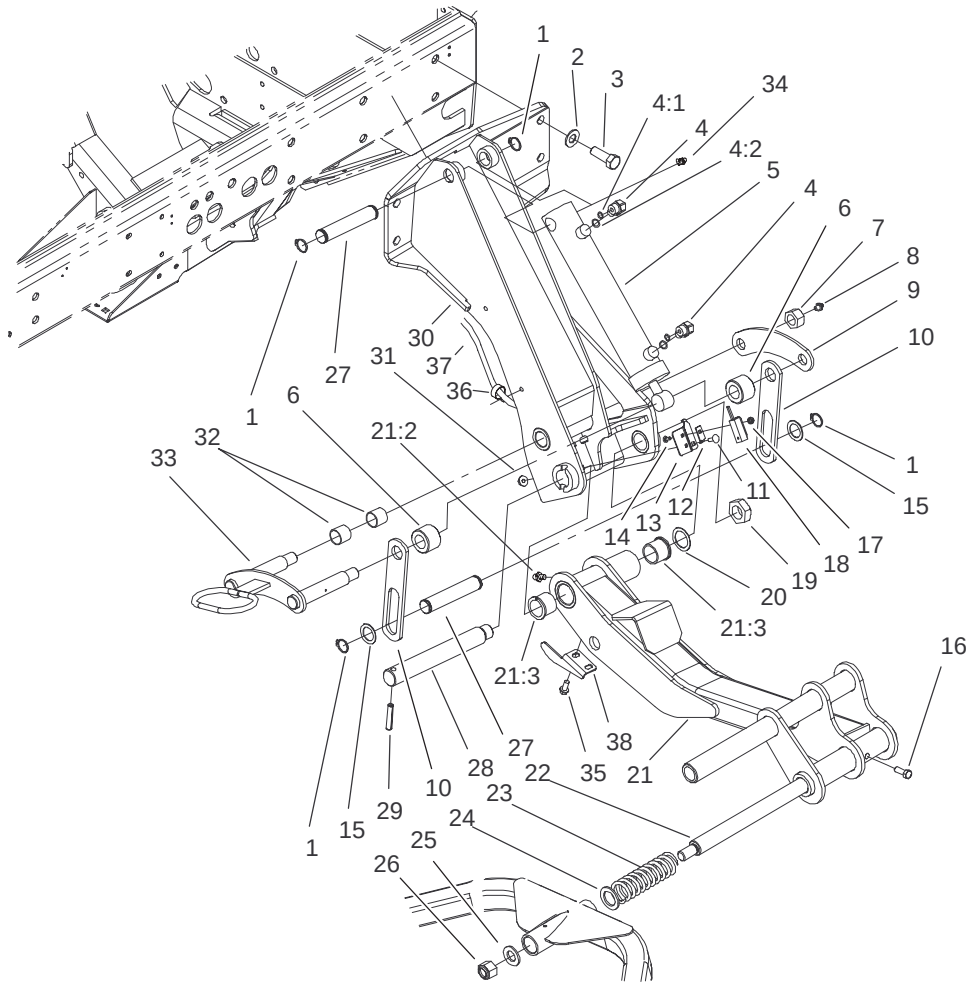


Sheet No.:23

No. 6 and 7 Hose Instalation Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5498	4	Hose ASM
2	104–5499	2	Hose ASM
3	105–3918	2	Hose ASM
4	105–3919	2	Hose ASM

Ref. No.	Part No.	Qty.	Description



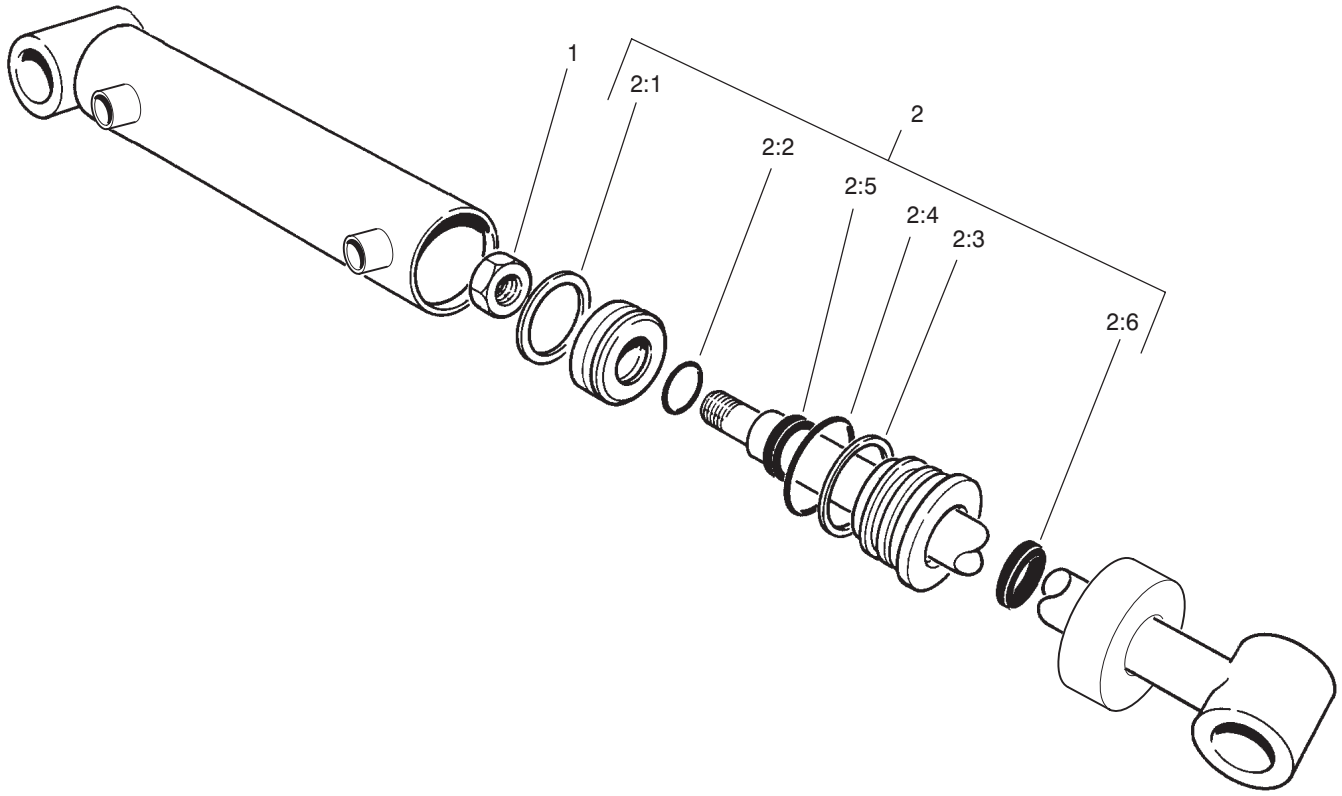
Sheet No.:24

No. 6 and 7 Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	32151–36	8	Ring–Retaining
2	99–7667	12	Washer–Flat
3	327–5	12	Screw–HH
4	340–77	4	Fitting–HYD, 90°
4:1	237–22	1	O–Ring
4:2	237–42	1	O–Ring
5	104–5592	2	Cylinder–Lift #6, 7
6	93–2700	4	Roller–Plastic
7	33029–00	4	Nut–Lock NI
8	302–2	4	Fitting–Grease
9	98–8821	2	Link–Rear
10	93–2704	4	Link–Left
11	3229–28	2	Screw–CARR
12	100–4872	2	Plate–Switch, Neutral
13	105–3858	2	Bracket–Switch
14	104–1450	2	Bolt–CARR
15	10–8110	8	Washer–Thrust
16	323–6	2	Screw–HH
17	32149–7	4	Nut–Keps
18	100–1270	2	Switch–Proximity
19	3296–49	2	Nut–Lock NI
20	76–2980	2	Washer–Thrust
21	105–9207	1	No. 7 Lift Arm ASM
21	105–9206	1	No. 6 Lift Arm ASM
21:2	302–5	1	Fitting–Grease
21:3	104–0015	2	Bushing–Flange

Ref. No.	Part No.	Qty.	Description
22	105–3983	2	Pin–Carrier, Pivot
23	105–3999	2	Spring–Compression
24	3–6781	2	Washer–Thrust
25	3256–28	2	Washer–Flat
26	3296–50	2	Nut–Lock NI
27	93–2699	4	Pin
28	98–8826	2	Pin–Pivot
29	32121–110	2	Pin–Roll, Slotted
30	104–5657–03	1	No. 6 Support Arm ASM
30	104–5658–03	1	No. 7 Support Arm ASM
31	32128–33	2	Nut–HF
32	67–1750	4	Bushing
33	104–5669	2	Link ASM
34	302–5	2	Fitting–Grease
35	32144–11	10	Screw–TAP
36	2412–93	6	Clamp–R
37	105–9188	1	Harness–Wire
38	105–9828	2	Actuator–Switch
*99	3334–945	2	Tie–Cable

* Not illustrated



T–3873

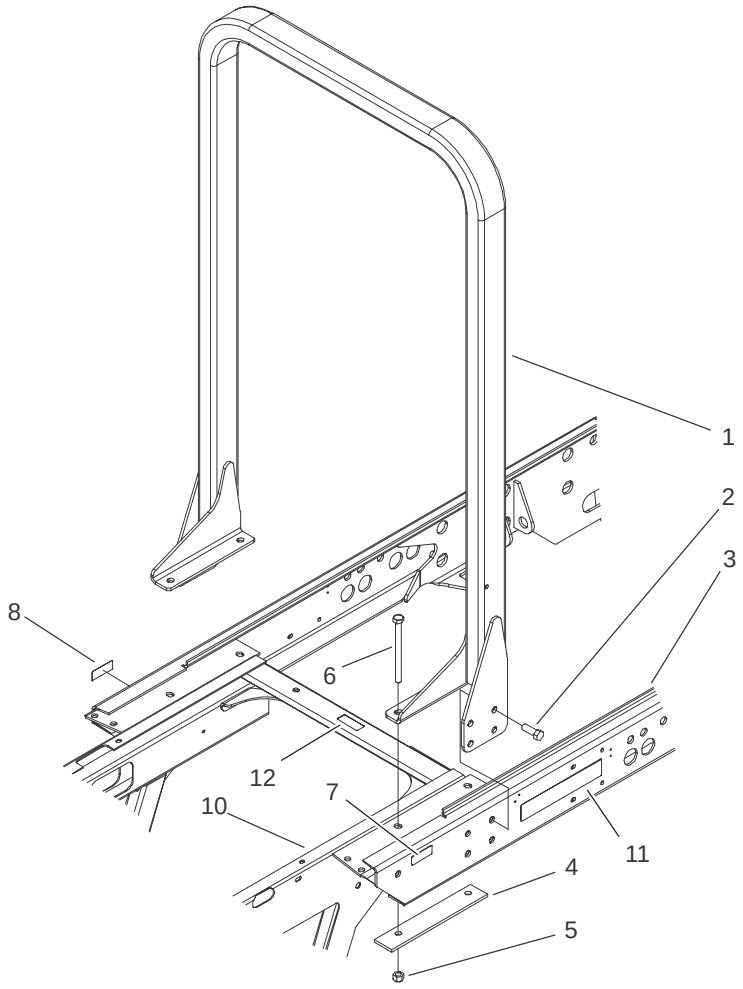
Sheet No.:C1

Hydraulic Cylinder Assembly No. 104–5592

Ref. No.	Part No.	Qty.	Description
1	32152–10	1	Locknut
2	105–9244	1	Kit–Seal
☆2:1		1	T–Seal
☆2:2		1	O–Ring
☆2:3		1	O–Ring
☆2:4		1	Backup
☆2:5		1	Rod Seal
☆2:6		1	Dust Seal

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

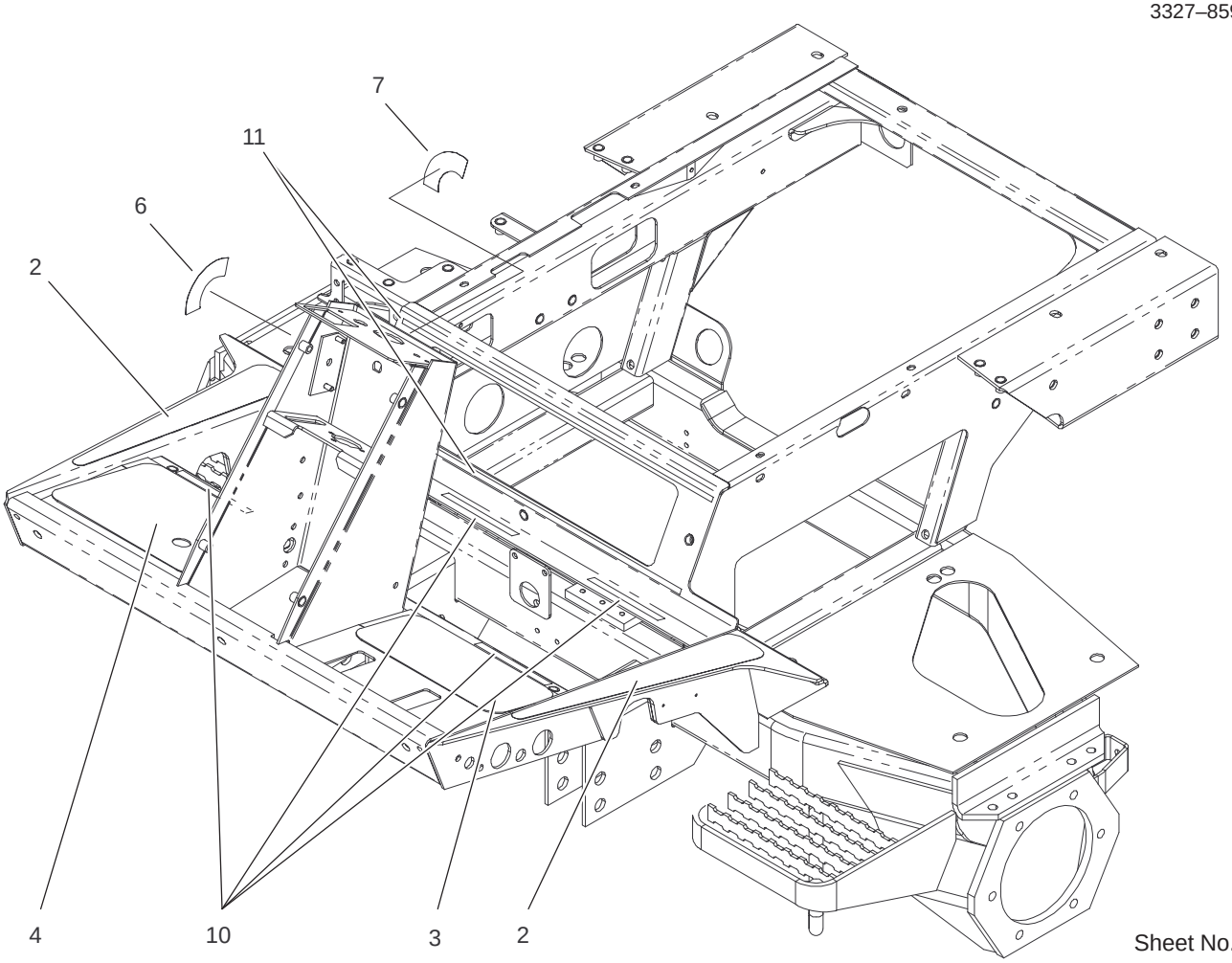


Sheet No.:25

Roll–Over–Protection System and Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5579–03	1	Rops
2	3234–38	10	Screw–HHF
3	104–5410–03	1	Frame–Rear
4	104–5584–03	2	Plate–Reinforcement, Rops
5	3296–23	4	Nut–Lock, NI
6	325–20	4	Screw–HH
7	93–6680	1	Decal–Diesel
8	93–6686	1	Decal–Oil, HYD
10	104–5469	1	Front Frame ASM
11	72–3560	2	Decal–4wd
12	100–6574	1	Decal–Warning

Ref. No.	Part No.	Qty.	Description

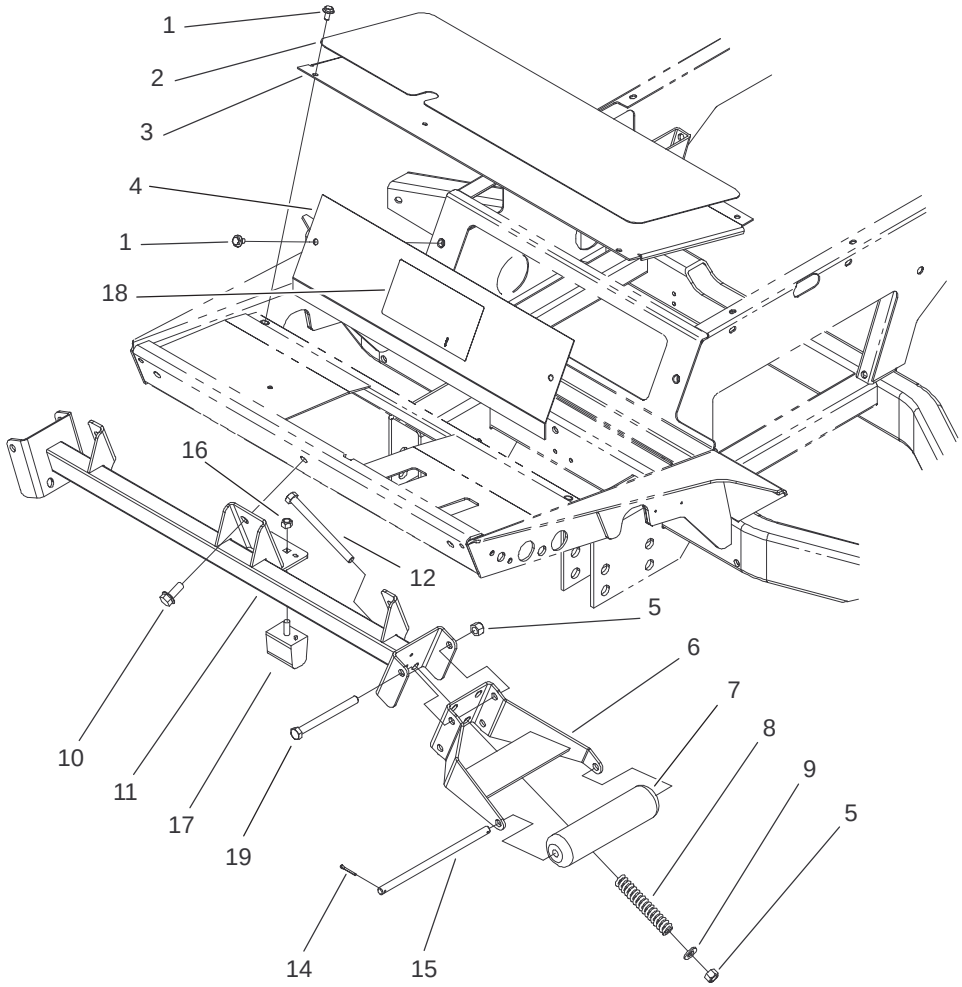


Sheet No.:C2

Front Frame Assembly No. 104–5469

Ref. No.	Part No.	Qty.	Description
2	93–7592	2	Tread–Foot Rest, LH
3	75–0620	1	Tread–Foot, LH
4	104–5223	1	Tread–Foot, RH
6	93–6699	1	Decal–Fast/Slow
7	105–7506	1	Decal–Key Switch
10	105–9859	6	Seal–Foam
11	105–9860	2	Seal–Foam

Ref. No.	Part No.	Qty.	Description

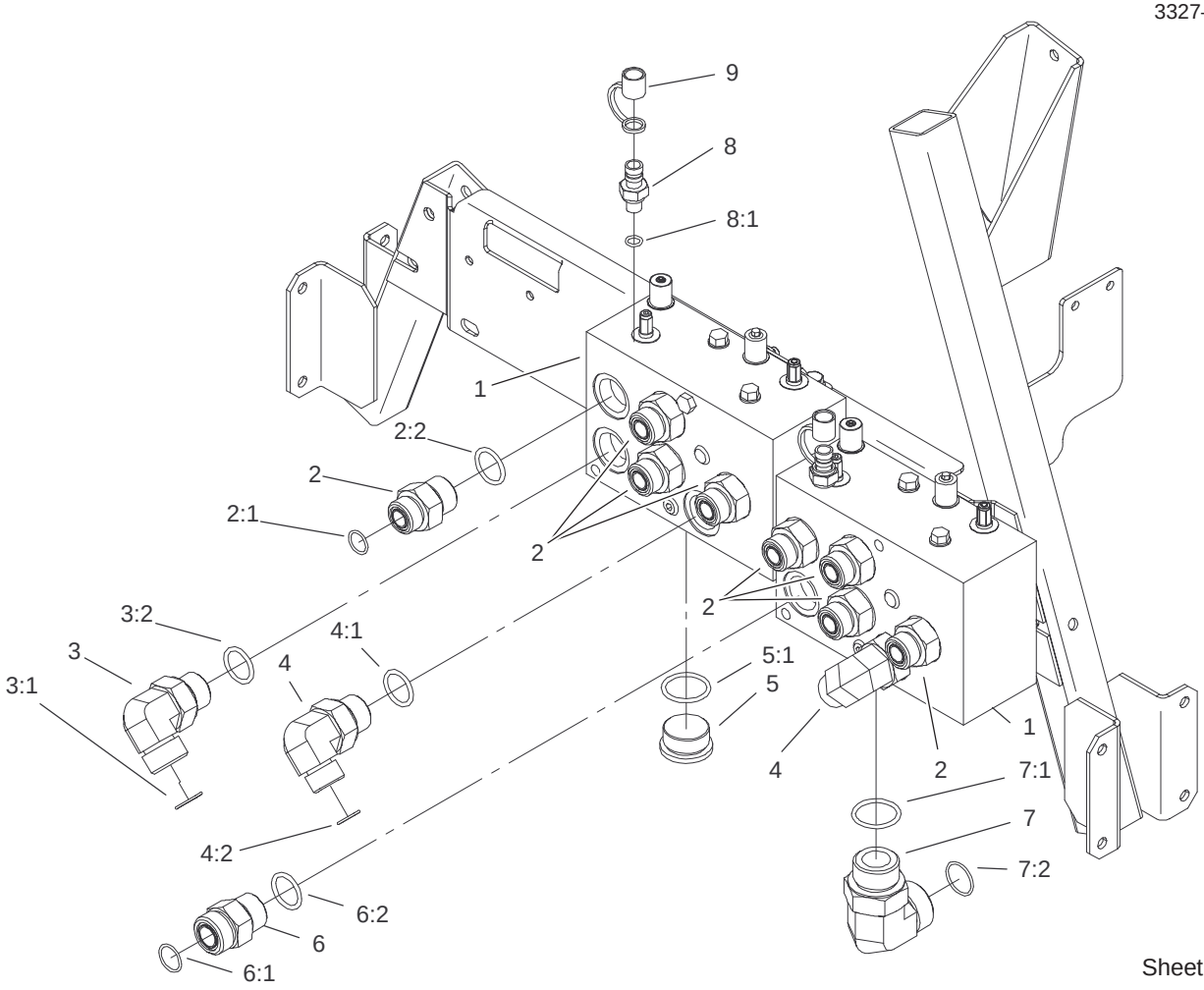


Sheet No.:26

Roller Support and Access Panel Assembly

Ref. No.	Part No.	Qty.	Description
1	3234–7	7	Screw–HHF
2	75–0630	1	Tread–Foot, Center
3	75–1410–01	1	Plate–Access, Floor
4	105–9243–01	1	Plate–Access
5	3296–23	4	Nut–Lock, NI
6	105–3996–01	2	Roller Support ASM
7	105–9816	2	Roller–Plastic
8	105–3970	2	Spring–Compression
9	3256–26	2	Washer–Flat
10	3234–38	3	Screw–HHF
11	104–5539–01	1	Roller Support ASM
12	325–22	2	Screw–HH
14	3272–11	4	Pin–Cotter
15	104–5545	2	Shaft–Roller
16	33025–00	1	Nut–Lock
17	87–3470	1	Bumper–Axle, Rear
18	105–3889	1	Decal–Danger
18	105–9222	1	Decal–Warning, Ce
19	325–20	2	Screw–HH

Ref. No.	Part No.	Qty.	Description

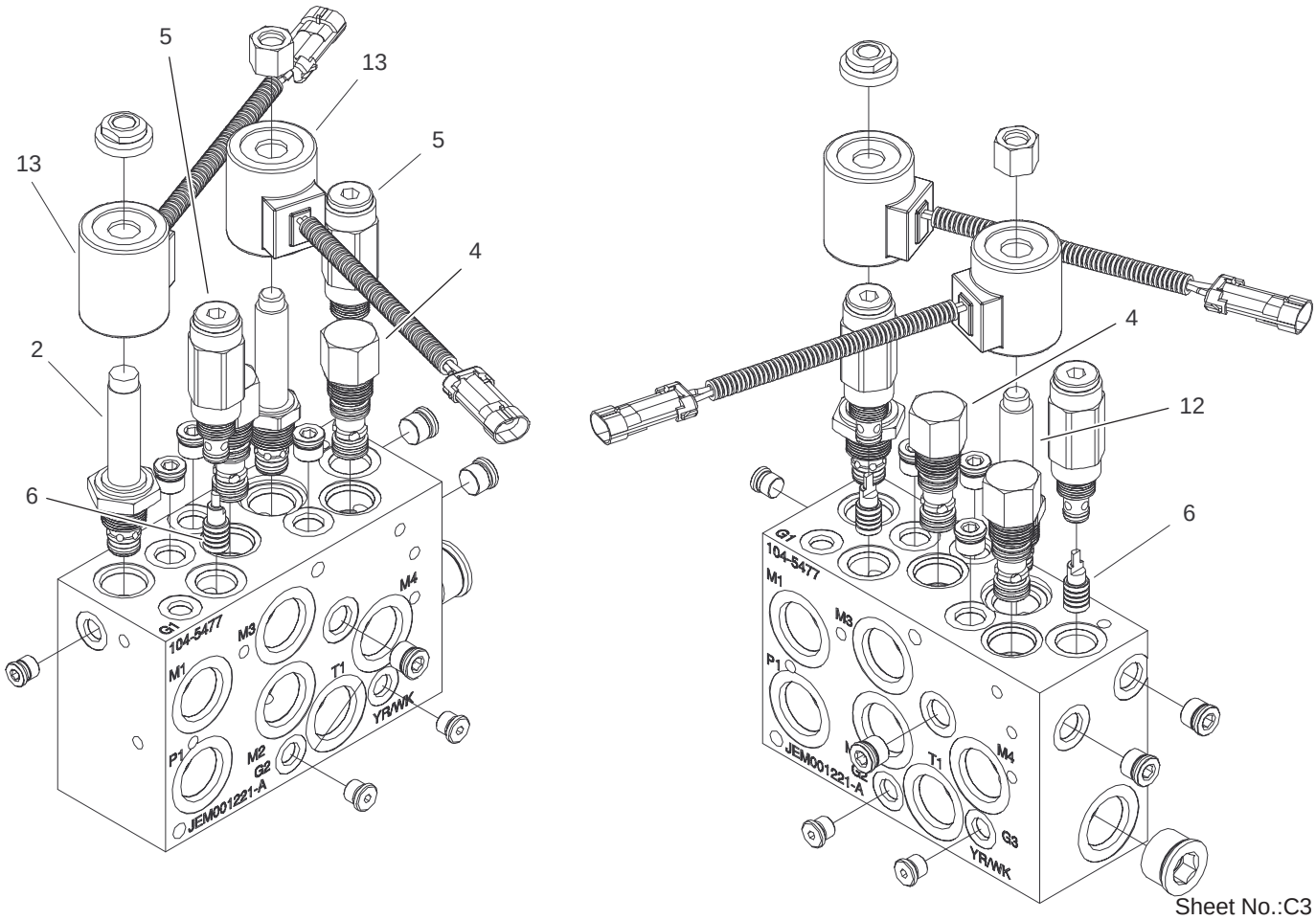


Sheet No.:28

Cutting Manifold Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5477	2	Manifold ASM
2	340–8	8	Adapter
2:1	237–65	1	O–Ring
2:2	237–81	1	O–Ring
3	340–142	1	Elbow–90°
3:1	237–58	1	O–Ring
3:2	237–81	1	O–Ring
4	340–139	2	Fitting–HYD, 90°
4:1	237–81	1	O–Ring
4:2	237–65	1	O–Ring
5	105–3921	1	Fitting–Plug
5:1	237–146	1	O–Ring
6	340–9	1	Fitting–Straight
6:1	237–58	1	O–Ring
6:2	237–81	1	O–Ring
7	340–129	1	Elbow–90°
7:1	237–146	1	O–Ring
7:2	340–65	1	O–Ring
8	354–77	2	Fitting–Quick
8:1	237–78	1	O–Ring
9	354–79	2	Cap–Dust, Yellow

Ref. No.	Part No.	Qty.	Description



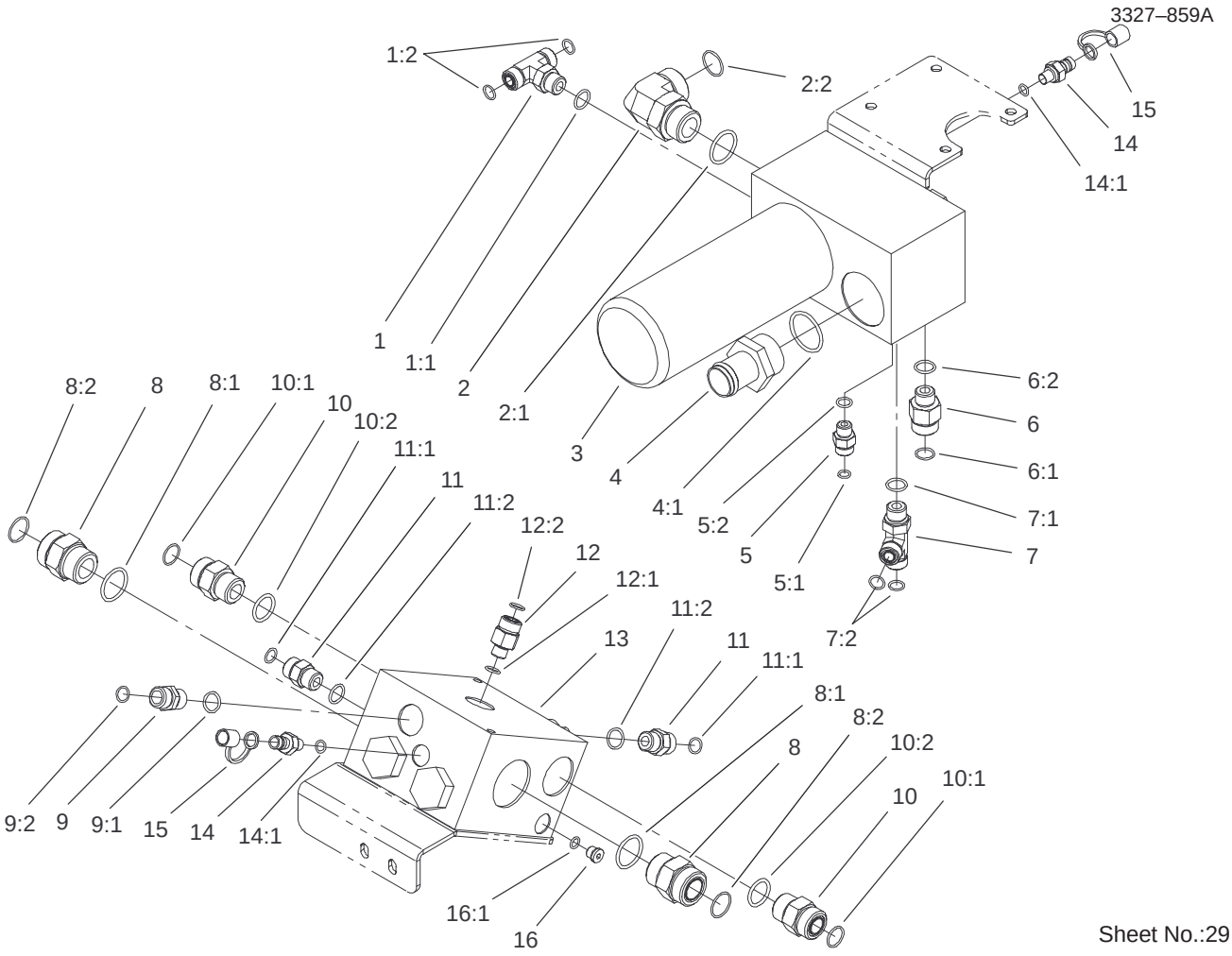
Sheet No.:C3

Manifold Assembly No. 104–5477

Ref. No.	Part No.	Qty.	Description
2	105–9150	1	Relief–Propotional
*2:1	105–9151	1	Kit–Seal
4	105–9153	2	Element–Logic, Vented
*4:1	105–9154	1	Kit–Seal
5	105–9155	1	Valve–Relief
*5:1	105–9156	1	Kit–Seal
6	105–9157	2	Piston–Pilot
12	105–9158	1	N.o. Solenoid Valve
*12:1	105–9159	1	Kit–Seal
13	105–9152	2	Coil Assembly
15	105–9160	1	Valve–Relief (200 Psi)
*15:1	105–9156	1	Kit–Seal

Ref. No.	Part No.	Qty.	Description

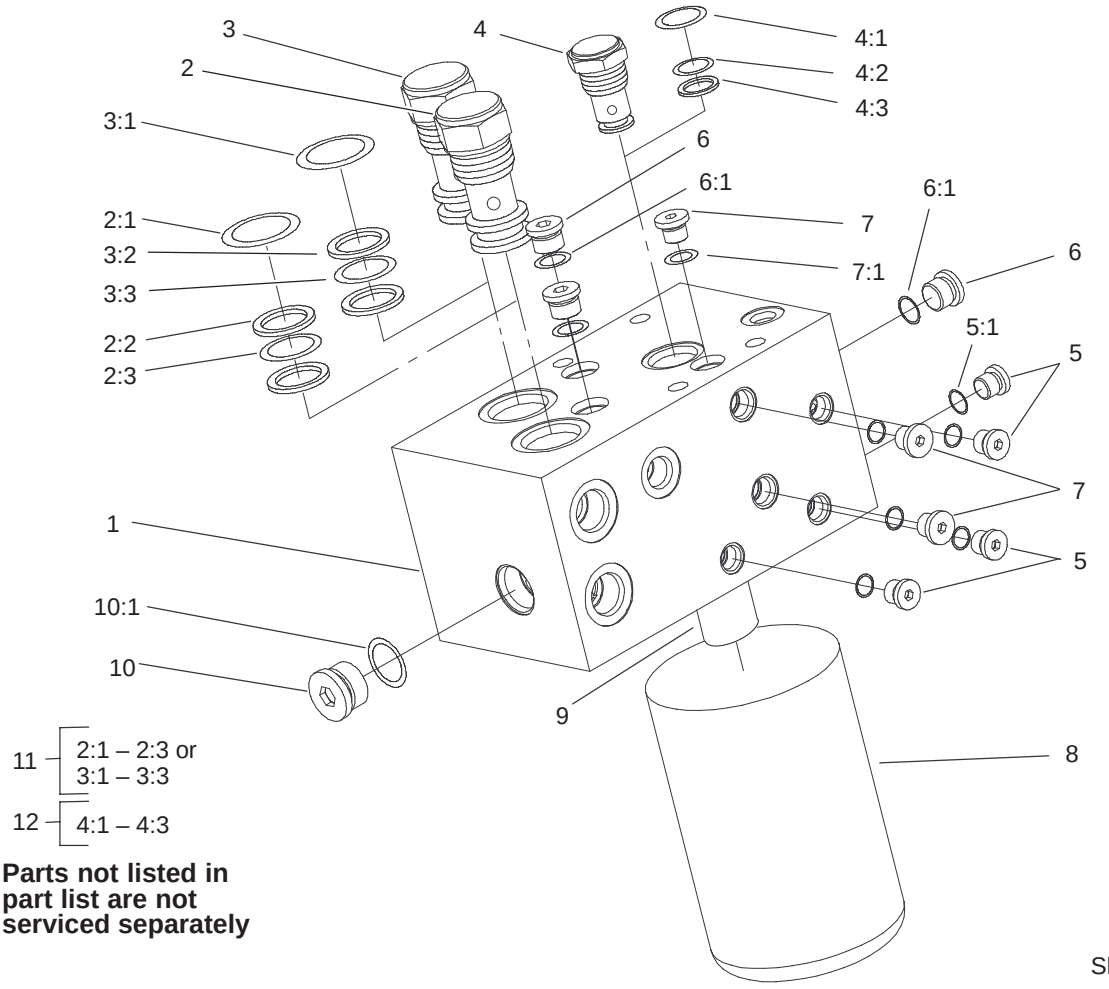
* Not illustrated



4 Wheel Drive Manifold and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	340–157	1	Fitting–HYD
1:1	237–79	1	O–Ring
1:2	237–30	2	O–Ring
2	340–129	1	Elbow–90°
2:1	237–146	1	O–Ring
2:2	340–65	1	O–Ring
3	100–5558	1	Manifold–Filter
4	104–5480	1	Fitting–Hose, Straight Barb
4:1	237–123	1	O–Ring
5	340–2	1	Fitting–HYD, Straight
5:1	237–22	1	O–Ring
5:2	237–42	1	O–Ring
6	340–155	1	Fitting–HYD
6:1	237–79	1	O–Ring
6:2	237–151	1	O–Ring
7	340–98	1	Fitting–HYD, 90°
7:1	237–79	1	O–Ring
7:2	237–30	1	O–Ring
8	104–3797	2	Fitting–HYD, Straight
8:1	237–146	1	O–Ring
8:2	340–65	1	O–Ring
9	100–4890	1	Fitting–Check
9:1	237–79	1	O–Ring
9:2	237–30	1	O–Ring
10	340–9	2	Fitting–Straight

Ref. No.	Part No.	Qty.	Description
10:1	237–58	1	O–Ring
10:2	237–81	1	O–Ring
11	340–4	1	Adapter
11:1	237–30	1	O–Ring
11:2	237–79	1	O–Ring
12	105–9821	1	Fitting–HYD, Orificed
12:1	237–42	1	O–Ring
12:2	237–30	1	O–Ring
13	104–5496	1	4wd Manifold ASM
14	354–77	2	Fitting–Quick
14:1	237–78	1	O–Ring
15	354–79	2	Cap–Dust, Yellow
16	353–990	1	Plug
16:1	237–78	1	O–Ring
17	94–2628	1	Adapter–HYD
17:1	237–79	1	O–Ring
17:2	237–30	1	O–Ring



Parts not listed in part list are not serviced separately

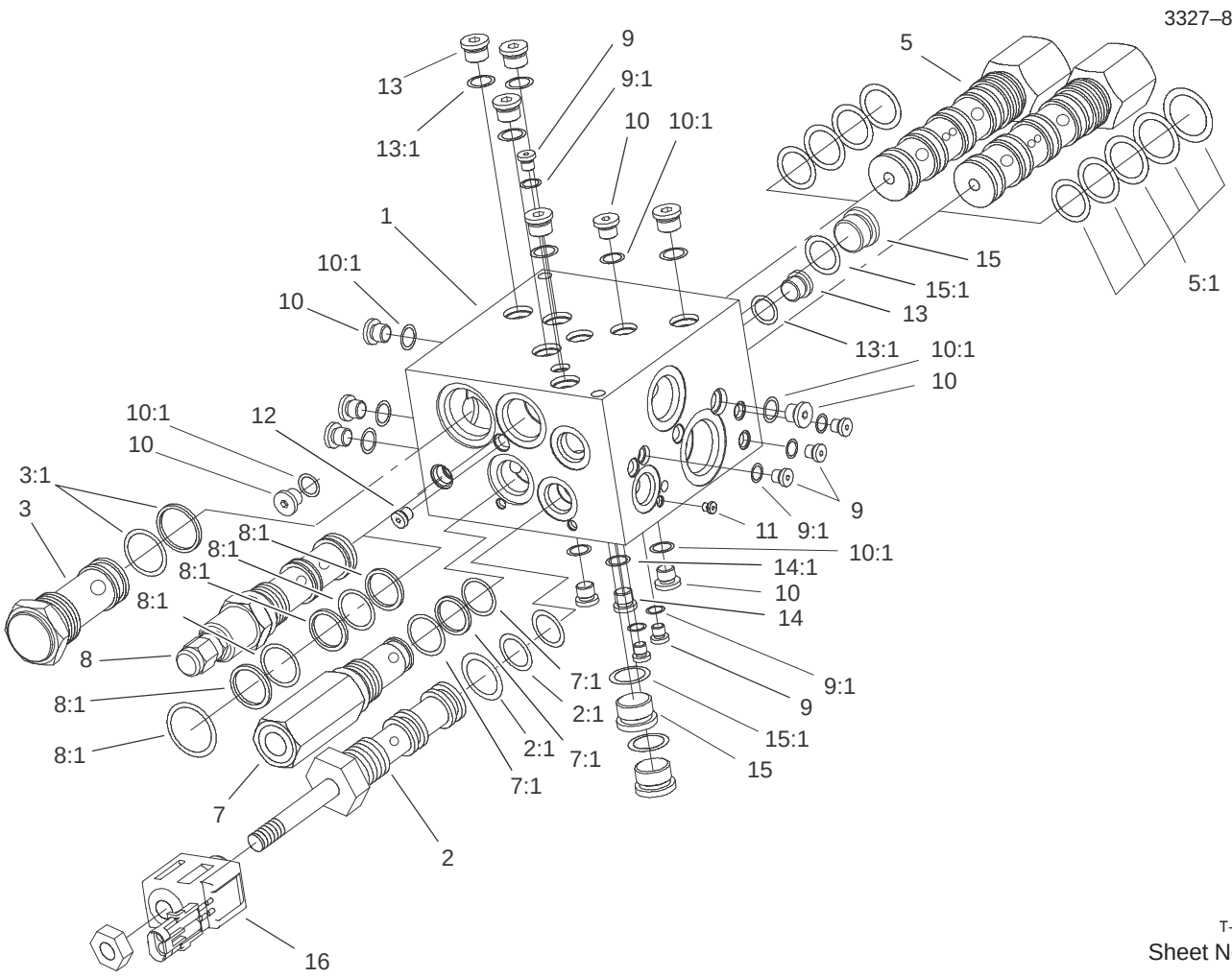
Sheet No.:C4

Filter Manifold Assembly No. 100–5558

Ref. No.	Part No.	Qty.	Description
☆1		1	Manifold
2	104–4292	1	Valve–Check
3	104–4293	1	Valve–Check
4	104–4294	1	Valve–Check
5	353–990	4	Plug
5:1	237–78	1	O–Ring
6	353–989	3	Plug–Hex, Hollow
6:1	237–42	1	O–Ring
7	354–137	1	Plug
7:1	237–86	1	O–Ring
8	94–2621	1	Element–Filter
☆9		1	Nipple–Filter
10	354–70	1	Plug–Hex, Hollow
10:1	237–80	1	O–Ring
11	99–5504	2	Seal Kit
12	99–5503	1	Seal Kit

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



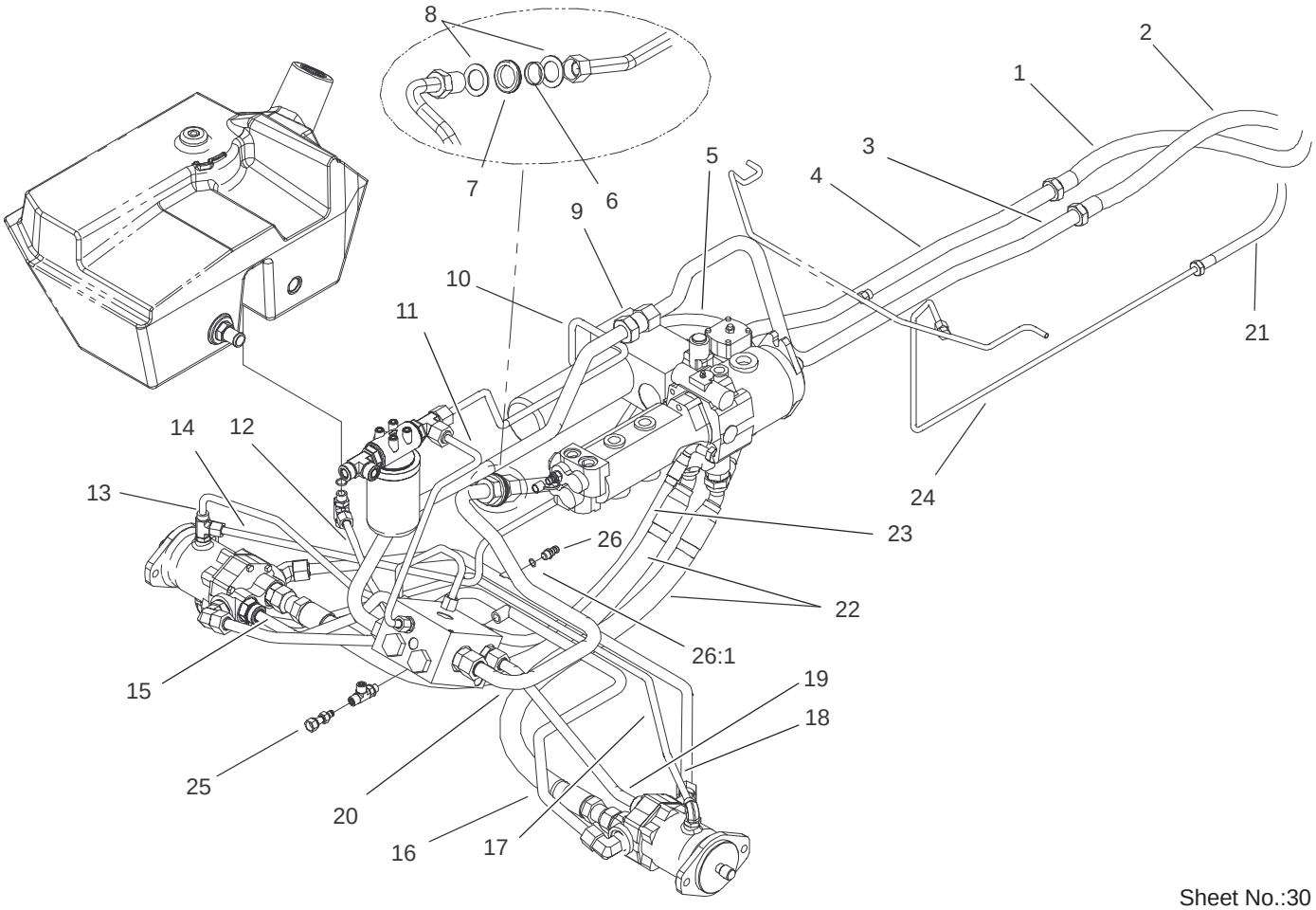
Sheet No.:C5

4 Wheel Drive Manifold Assembly No. 104–5496

Ref. No.	Part No.	Qty.	Description
☆1		1	Manifold
2	104–8603	1	Valve–Solenoid
2:1	99–5505	1	Seal Kit
3	104–8604	1	Valve–Check
3:1	99–5506	1	Seal Kit
5	104–8605	2	Valve–Control
5:1	99–5507	1	Seal Kit
7	105–9847	1	Valve–Relief
7:1	99–5503	1	Seal Kit
8	105–9848	1	Valve–Reducing
8:1	104–4266	1	Seal Kit
9	353–991	7	Plug–Hex, Hollow
9:1	237–156	1	O–Ring
10	354–137	7	Plug
10:1	237–86	1	O–Ring
☆11		5	Expander Plug
☆12		5	Expander Plug
13	353–989	6	Plug–Hex, Hollow
13:1	237–42	1	O–Ring
14	353–990	2	Plug
14:1	237–78	1	O–Ring
15	354–70	3	Plug–Hex, Hollow
15:1	237–80	1	O–Ring
16	104–4264	1	Coil–Solenoid

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



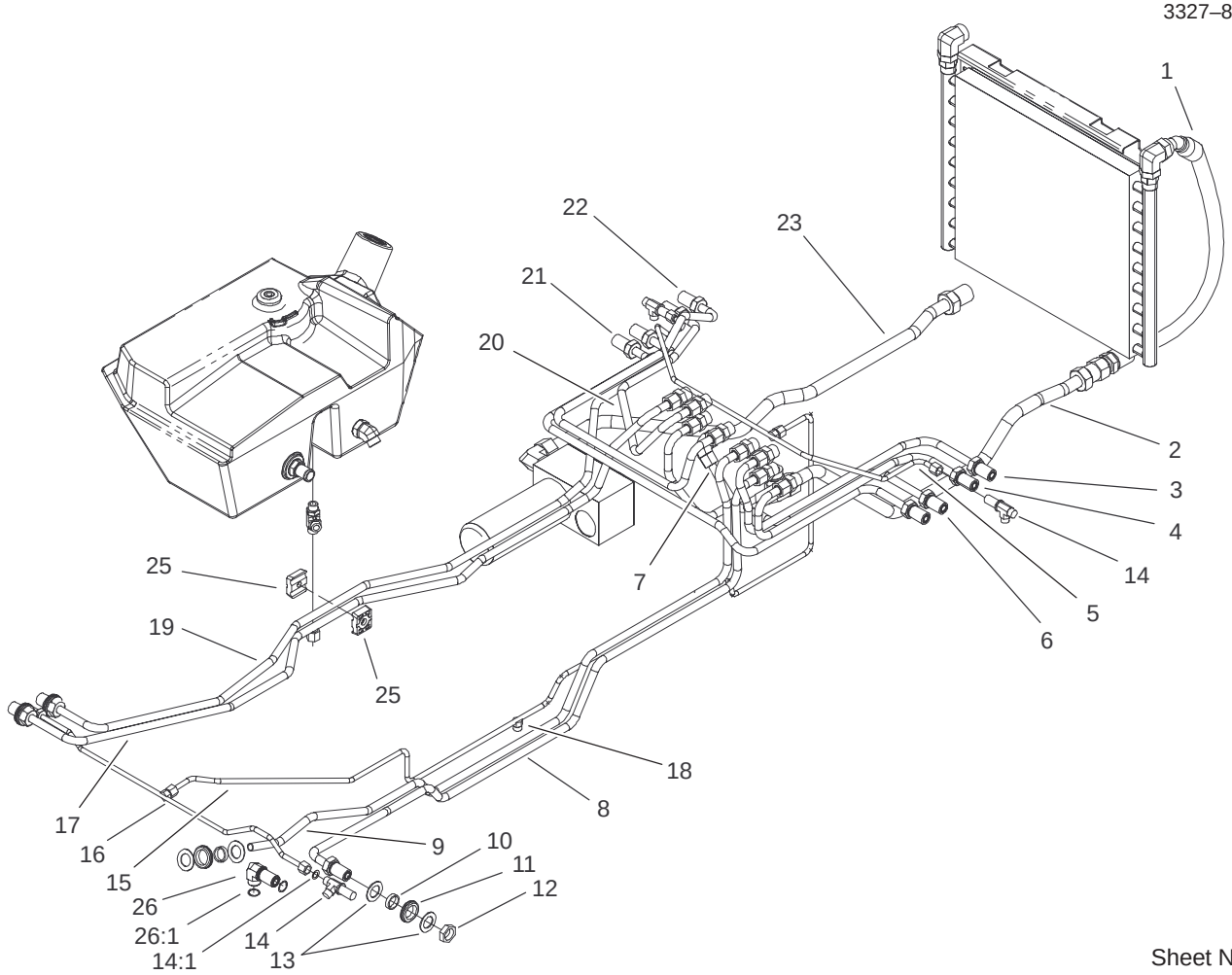
Sheet No.:30

Hydraulic Traction Line Assembly

Ref. No.	Part No.	Qty.	Description
1	92–7536	1	Hose ASM
2	105–9818	1	Hose ASM
3	104–5476	1	Tube ASM
*3:1	340–65	1	O–Ring
4	104–5478	1	Tube ASM
*4:1	340–65	1	O–Ring
5	105–3864	1	Hose ASM
6	69–8950	2	Spacer
7	240–2	2	Grommet–Rubber
8	69–8920	4	Washer
9	104–5472	1	Tube ASM
*9:1	340–65	1	O–Ring
10	105–3861	1	Tube ASM
11	105–3915	1	Tube ASM
12	104–5489	1	Tube ASM
13	105–3862	1	Tube ASM
14	105–3866	1	Tube ASM
15	104–5470	1	Tube ASM
16	105–3984	1	Tube ASM
17	105–3865	1	Tube ASM
18	104–5462	1	Tube ASM
19	104–5468	1	Tube ASM
20	104–5473	1	Tube ASM
*20:1	340–65	1	O–Ring
21	92–7534	1	Hose ASM
22	104–5464	2	Hose ASM

Ref. No.	Part No.	Qty.	Description
23	105–3985	1	Hose ASM
24	105–9863	1	Tube–HYD
*24:1	237–22	1	O–Ring
25	86–5480	1	Nipple–Test
26	59–7410	1	Tip–Nipple, Diagonal
26:1	237–42	1	O–Ring

* Not illustrated



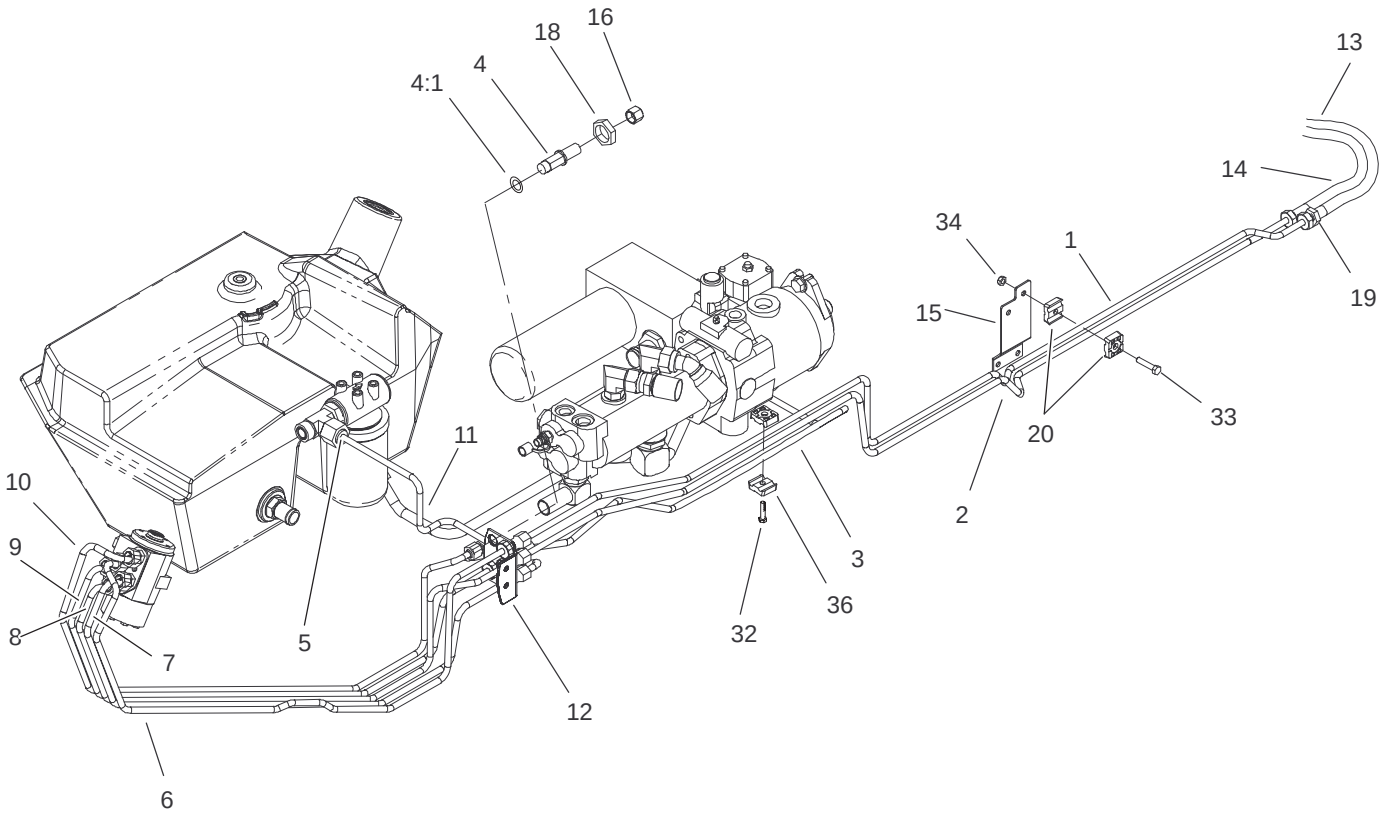
Sheet No.:31

Hydraulic Mow Line Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5483	2	Hose ASM
2	104–5488	1	Tube ASM
*2:1	340–65	1	O–Ring
3	105–3892	1	Tube ASM
3:1	237–65	1	O–Ring
4	105–3891	1	Tube ASM
*4:1	237–65	1	O–Ring
5	105–9862	1	Tube ASM
5:1	237–22	2	O–Ring
6	105–3895	1	Tube ASM
*6:1	237–65	1	O–Ring
7	105–3885	1	Tube ASM
8	105–3893	1	Tube ASM
*8:1	237–65	1	O–Ring
9	105–3894	1	Tube ASM
*9:1	237–65	1	O–Ring
10	69–9000	13	Spacer
11	240–3	13	Grommet–Rubber
12	340–74	13	Locknut–Bulkhead
13	69–9010	26	Washer
14	340–68	3	Fitting–Tee, Bulkhead
14:1	237–22	3	O–Ring
15	105–3914	1	Tube ASM
*15:1	237–22	1	O–Ring
16	105–3913	1	Tube ASM
*16:1	237–22	2	O–Ring

Ref. No.	Part No.	Qty.	Description
17	105–3902	1	Tube ASM
*17:1	237–65	1	O–Ring
18	105–3911	1	Tube ASM
19	105–3901	1	Tube ASM
*19:1	237–65	2	O–Ring
20	105–3896	1	Tube ASM
20:1	237–65	1	O–Ring
21	105–3900	1	Tube ASM
*21:1	237–65	2	O–Ring
22	105–3897	1	Tube ASM
22:1	237–65	1	O–Ring
23	104–5481	1	Tube ASM
*23:1	340–65	1	O–Ring
25	56–7971	2	Clamp–Tube

* Not illustrated



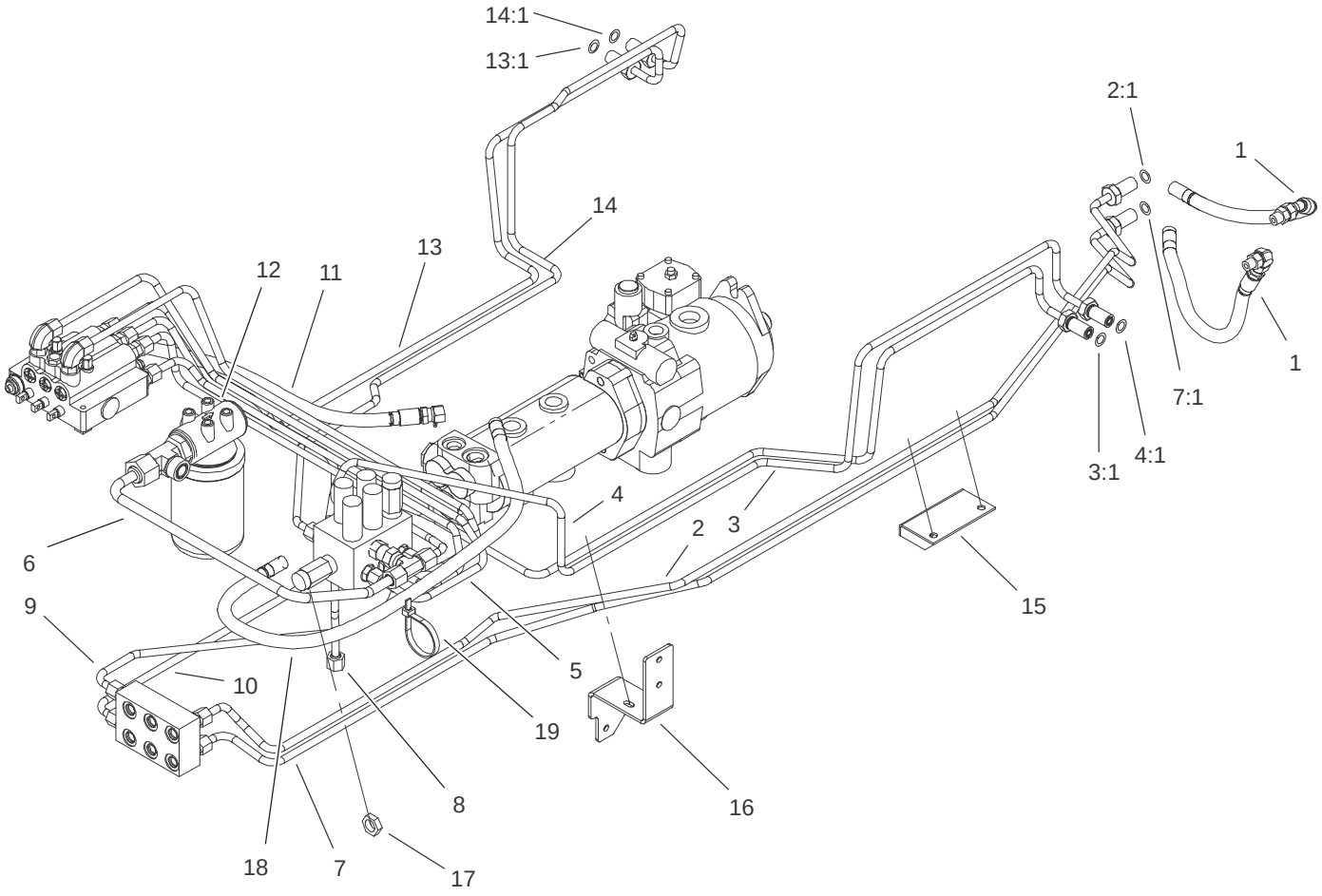
Sheet No.:32

Hydraulic Steering Line Assembly

Ref. No.	Part No.	Qty.	Description
1	105–3871	1	Tube ASM
*1:1	237–22	1	O–Ring
2	105–3870	1	Tube ASM
*2:1	237–22	1	O–Ring
3	105–3887	1	Tube ASM
4	340–68	1	Fitting–Tee, Bulkhead
4:1	237–22	3	O–Ring
5	105–3886	1	Tube ASM
6	94–3060	1	HYD Tube ASM
6:1	237–22	1	O–Ring
7	94–3071	1	HYD Tube ASM
7:1	237–22	1	O–Ring
8	94–3059	1	HYD Tube ASM
8:1	237–22	1	O–Ring
9	94–3061	1	HYD Tube ASM
*9:1	237–22	1	O–Ring
10	94–3062	1	HYD Tube ASM
11	104–5485	1	Tube ASM
12	92–7606–03	1	Bracket–Bulkhead
13	105–9817	1	Hose ASM
14	92–7539	1	Hose ASM
15	105–3873–03	1	Bracket–Clamp Mount
16	340–117	2	Cap
18	340–126	3	Nut–Bulkhead
19	340–70	5	Locknut–Bulkhead
20	56–7973	22	Clamp–Tube

Ref. No.	Part No.	Qty.	Description
31	32144–11	2	Screw–TAP
32	322–6	1	Screw–HH
33	322–7	3	Screw–HH
34	3296–47	1	Nut–Lock, NI
35		1	Union–Elbow Bulkhead, 90°
35:1	237–65	2	O–Ring
36	56–7972	2	Clamp–Tube
*99	3290–378	4	Tie–Cable

* Not illustrated

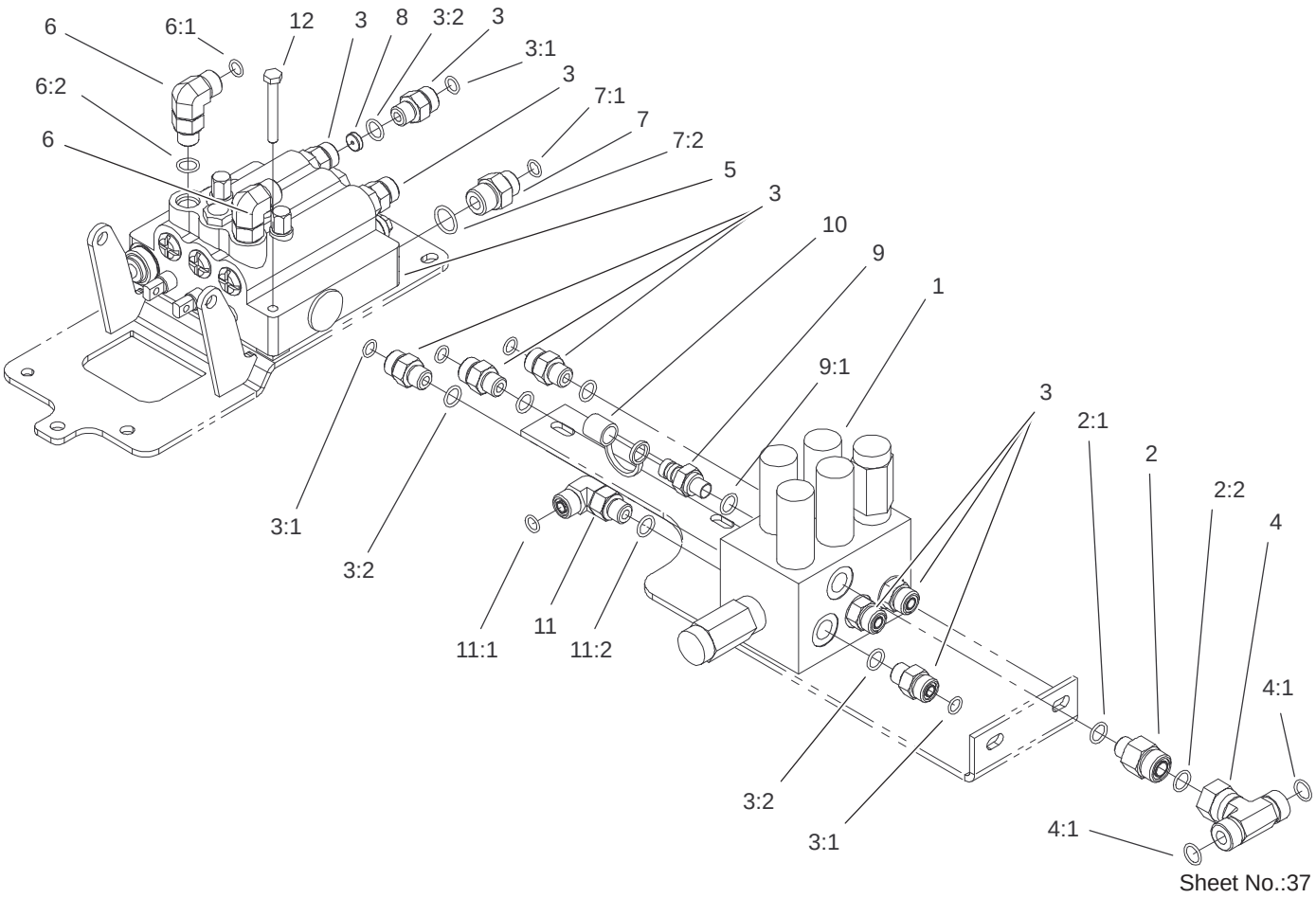


Sheet No.:33

Hydraulic Lift Line Assembly

Ref. No.	Part No.	Qty.	Description
1	105–9238	4	Hose ASM
2	105–3988	1	Tube ASM
2:1	237–22	1	O–Ring
3	105–3926	1	Tube ASM
3:1	237–22	1	O–Ring
4	105–3927	1	Tube ASM
4:1	237–22	1	O–Ring
5	105–3923	1	Tube ASM
6	105–3860	1	Tube ASM
7	105–3989	1	Tube ASM
7:1	237–22	1	O–Ring
8	105–3928	1	Tube ASM
9	105–3916	1	Tube ASM
10	105–3917	1	Tube ASM
11	105–3922	1	Tube ASM
12	105–3920	1	Tube ASM
13	105–3924	1	Tube ASM
13:1	237–22	1	O–Ring
14	105–3925	1	Tube ASM
14:1	237–22	1	O–Ring
15	105–3990–03	1	Bracket–Tube Support
16	105–3993–03	1	Bracket–Tube Support
17	340–70	3	Locknut–Bulkhead
18	105–9838	1	Hose ASM
19	3334–945	1	Tie–Cable

Ref. No.	Part No.	Qty.	Description

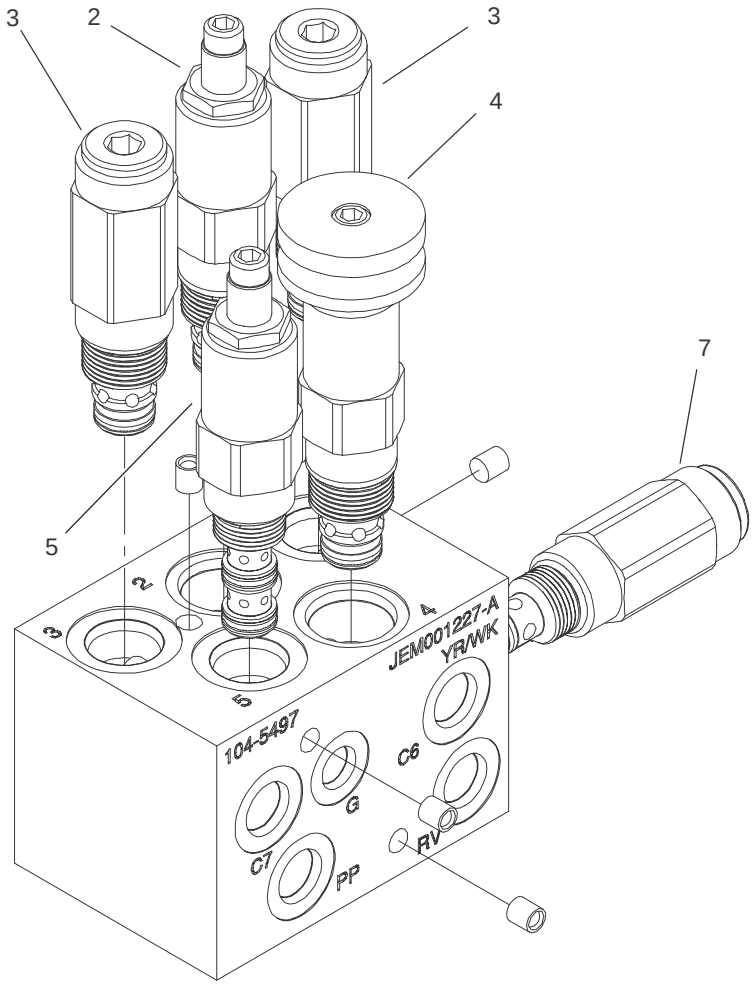


Sheet No.:37

Lift Valve and Counter Balance Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5497	1	Manifold ASM
2	340–5	1	Fitting–Straight
2:1	237–42	1	O–Ring
2:2	237–30	1	O–Ring
3	340–2	9	Fitting–HYD, Straight
3:1	237–22	1	O–Ring
3:2	237–42	1	O–Ring
4	93–6810	1	Fitting–Tee
4:1	237–30	2	O–Ring
5	105–9843	1	Valve–Three Spool
6	340–77	2	Fitting–HYD, 90°
6:1	237–22	1	O–Ring
6:2	237–42	1	O–Ring
7	340–3	2	Adapter
7:1	237–22	1	O–Ring
7:2	237–79	1	O–Ring
8	105–9807	1	Orifice (.094)
9	86–5480	1	Nipple–Test
10	354–79	1	Cap–Dust, Yellow
11	340–77	1	Fitting–HYD, 90°
11:1	237–22	1	O–Ring
11:2	237–42	1	O–Ring
12	321–11	2	Screw–HH
13	340–97	1	Fitting–HYD, 90°
13:1	237–22	1	O–Ring
13:2	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description



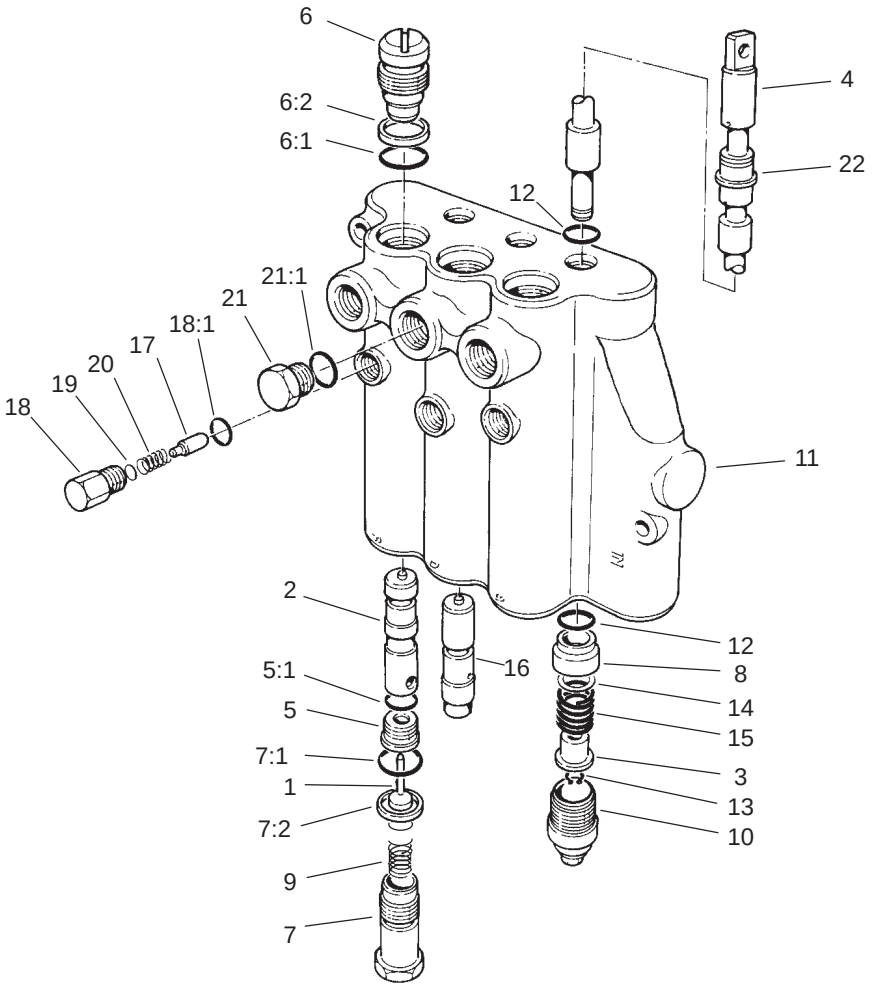
Sheet No.:C6

Manifold Assembly No. 104–5497

Ref. No.	Part No.	Qty.	Description
2	105–9161	1	Relief–Pilot Operated (725 Psi)
*2:1	105–9151	1	Kit–Seal
3	105–9165	2	Sequence Valve (1200 Psi)
*3:1	105–9164	1	Kit–Seal
4	105–9162	1	Relief–Pilot Operated (650 Psi)
*4:1	105–9151	1	Kit–Seal
5	105–9163	1	Valve–Pilot Sequence, Ext.
*5:1	105–9164	1	Kit–Seal
7	105–9844	1	Valve–Relief (1600 Psi)
*7:2	105–9156	1	Kit–Seal

Ref. No.	Part No.	Qty.	Description

* Not illustrated



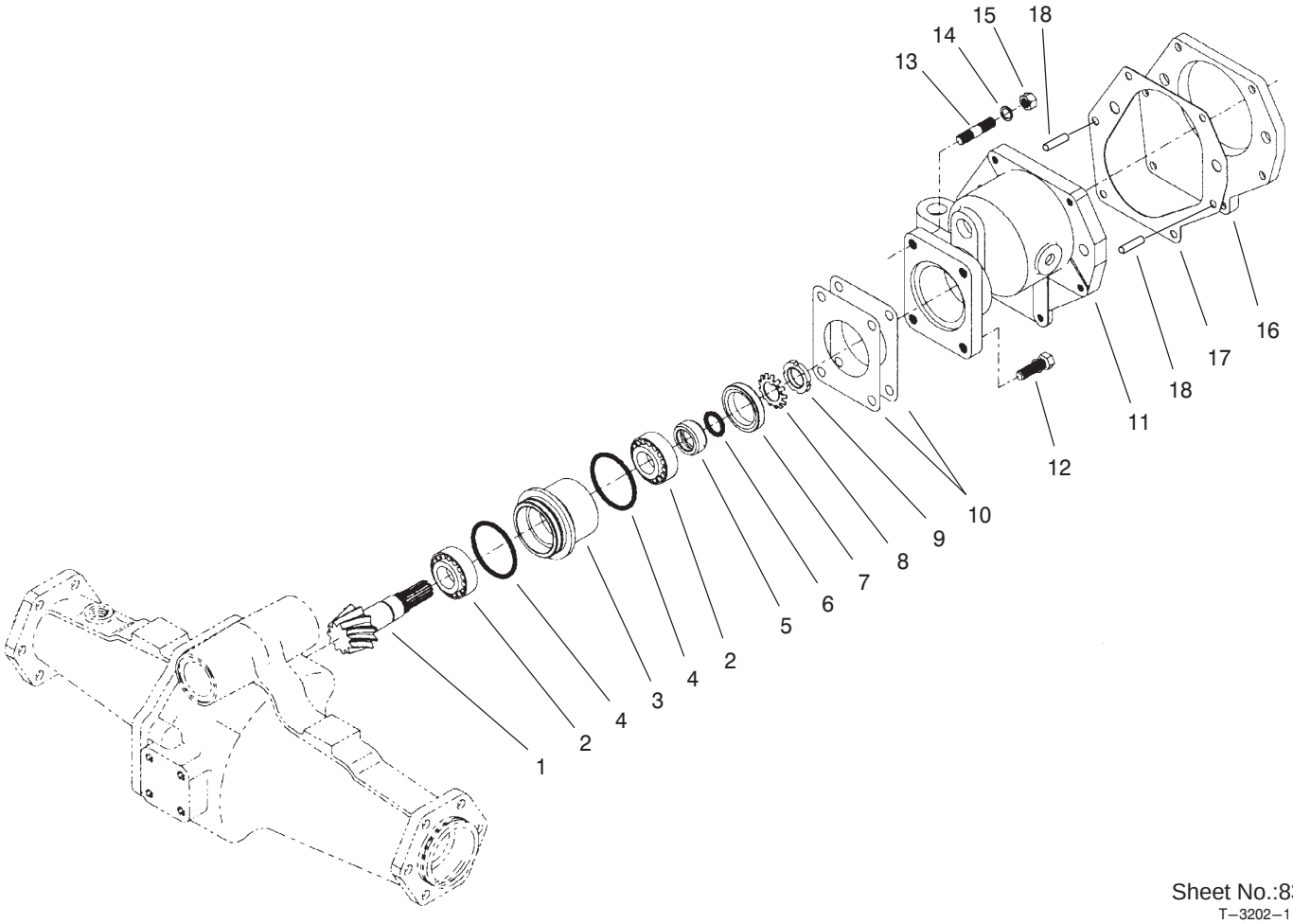
T–3887
Sheet No.:C7

3 Spool Valve Assembly No. 105–9843

Ref. No.	Part No.	Qty.	Description
1	58–6290	3	Poppet
2	84–6420	2	Plunger
3	58–6310	3	Spacer
☆4		3	Spool
5	58–6330	3	Seat
5:1	58–6340	1	O–Ring
6	58–6350	3	Plug
6:1	60–5720	1	O–Ring
6:2	58–6370	1	Washer
7	69–1800	3	Plug ASM
7:1	58–6360	1	O–Ring
7:2	58–6370	1	Washer
8	58–6400	3	Bushing
9	69–1810	3	Spring
10	58–6420	3	Cap
☆11		1	Body
12	58–6450	6	O–Ring
13	58–6460	3	Ring
14	58–6700	3	Washer
15	58–6730	3	Spring
16	69–1840	1	Plunger
17	58–6770	3	Plunger
18	58–6780	3	Plug
18:1	58–6790	1	O–Ring
19	60–6450	1	Disc
20	58–6760	3	Spring

Ref. No.	Part No.	Qty.	Description
21	58–6710	1	Plug
21:1	58–6720	1	O–Ring
22	58–6320	3	Wiper
*23	60–3780	1	Seal Kit

☆ Not serviced separately
* Not illustrated
8 Not illustrated

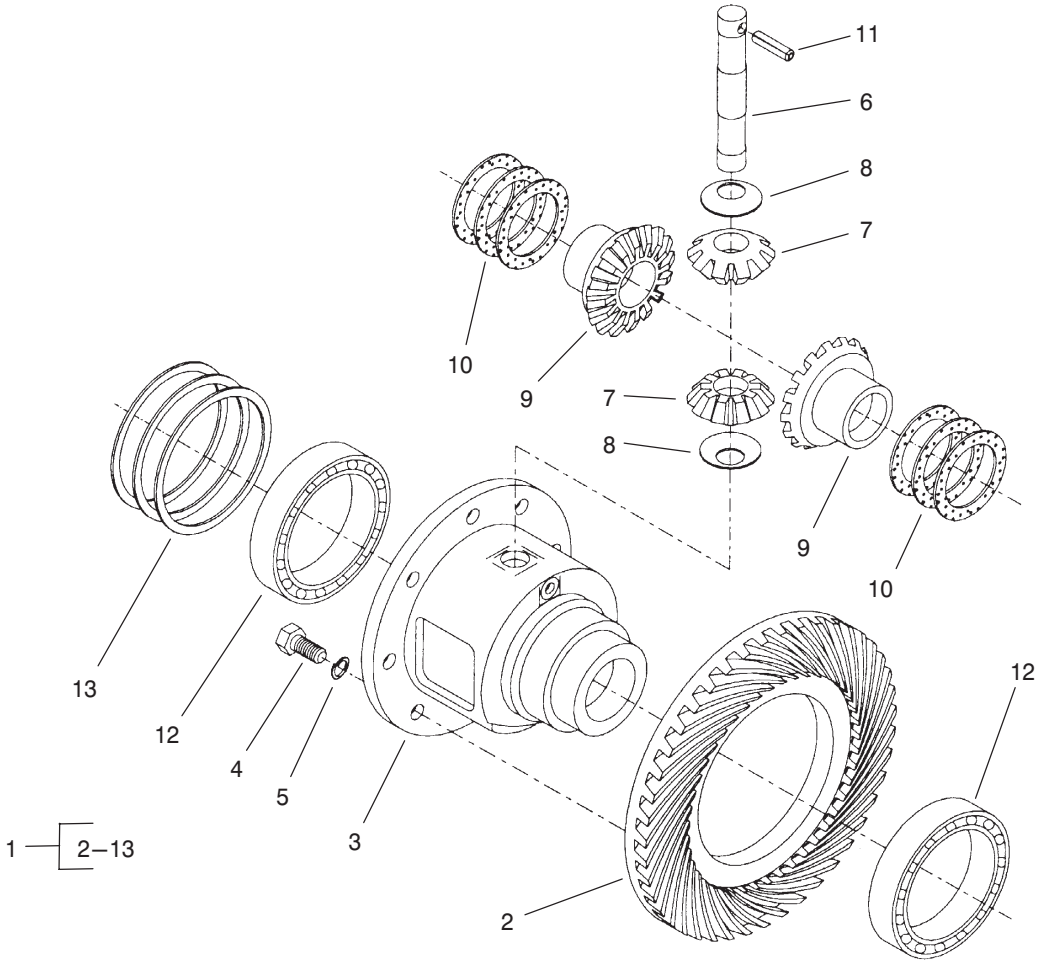


Sheet No.:83
T–3202–1

Rear Axle Assembly No. 100–3784
Bevel Pinion Shaft Assembly

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

Ref. No.	Part No.	Qty.	Description

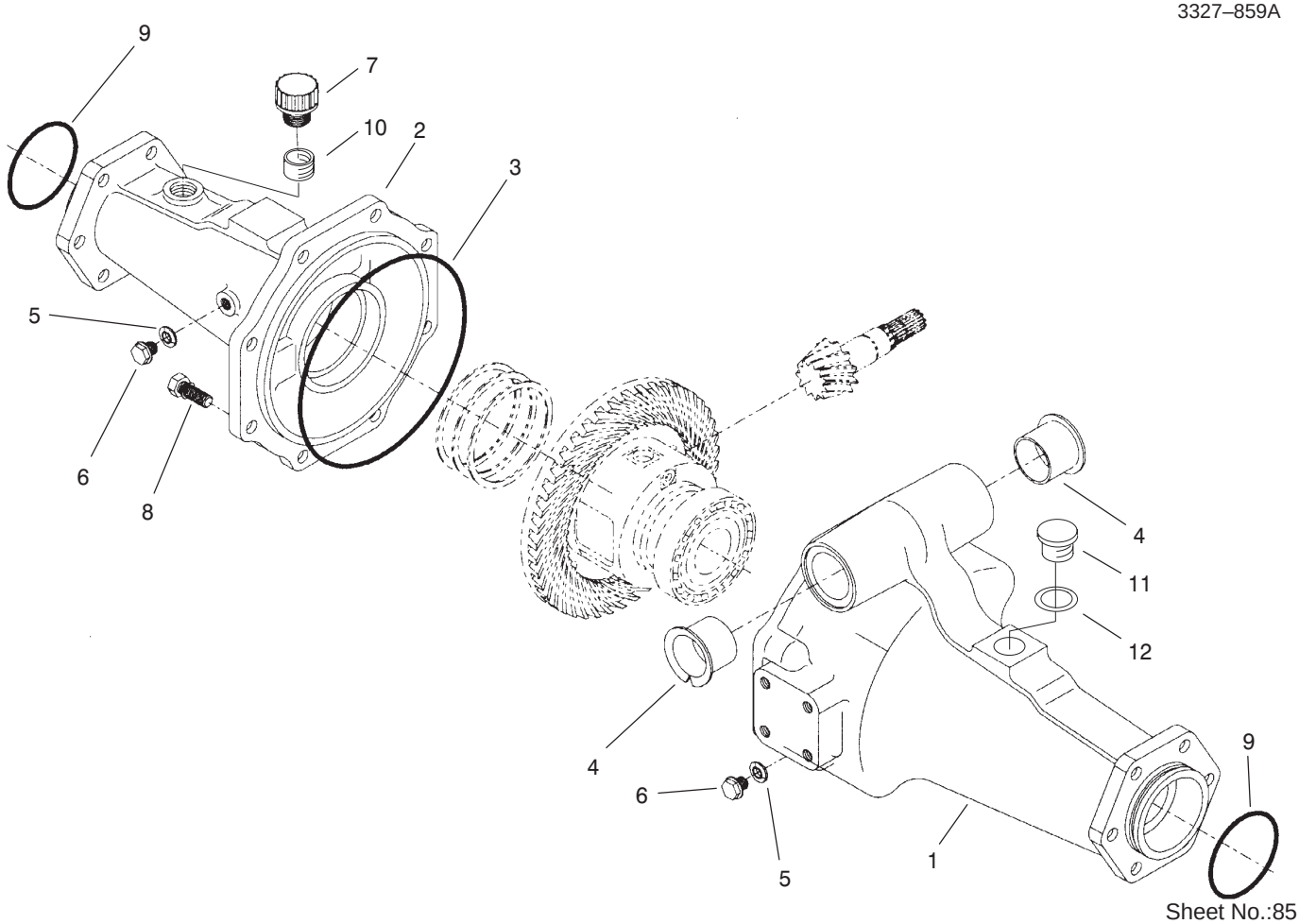


Sheet No.:84
T–3203–1

Rear Axle Assembly No. 100–3784 (Continued)
Differential Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7503	1	Differential ASM
2	100–2555	1	Ring And Pinion Matched Set
3	95–7502	1	Case–Differential
4	99–7576	8	Bolt
5	99–7577	8	Washer–Spring
6	99–7578	1	Shaft–Differential
7	99–7579	2	Pinion–Differential
8	99–7580	2	Washer–Differential
9	99–7581	2	Gear–Differential
10	99–7582	2	Washer–Differential
10	99–7583	2	Washer–Differential
10	99–7584	2	Washer–Differential
11	99–7588	1	Pin–Spring
12	99–7562	2	Bearing–Ball
13	99–7585	2	Shim 0.1
13	99–7586	2	Shim 0.2
13	99–7587	2	Shim 0.4

Ref. No.	Part No.	Qty.	Description



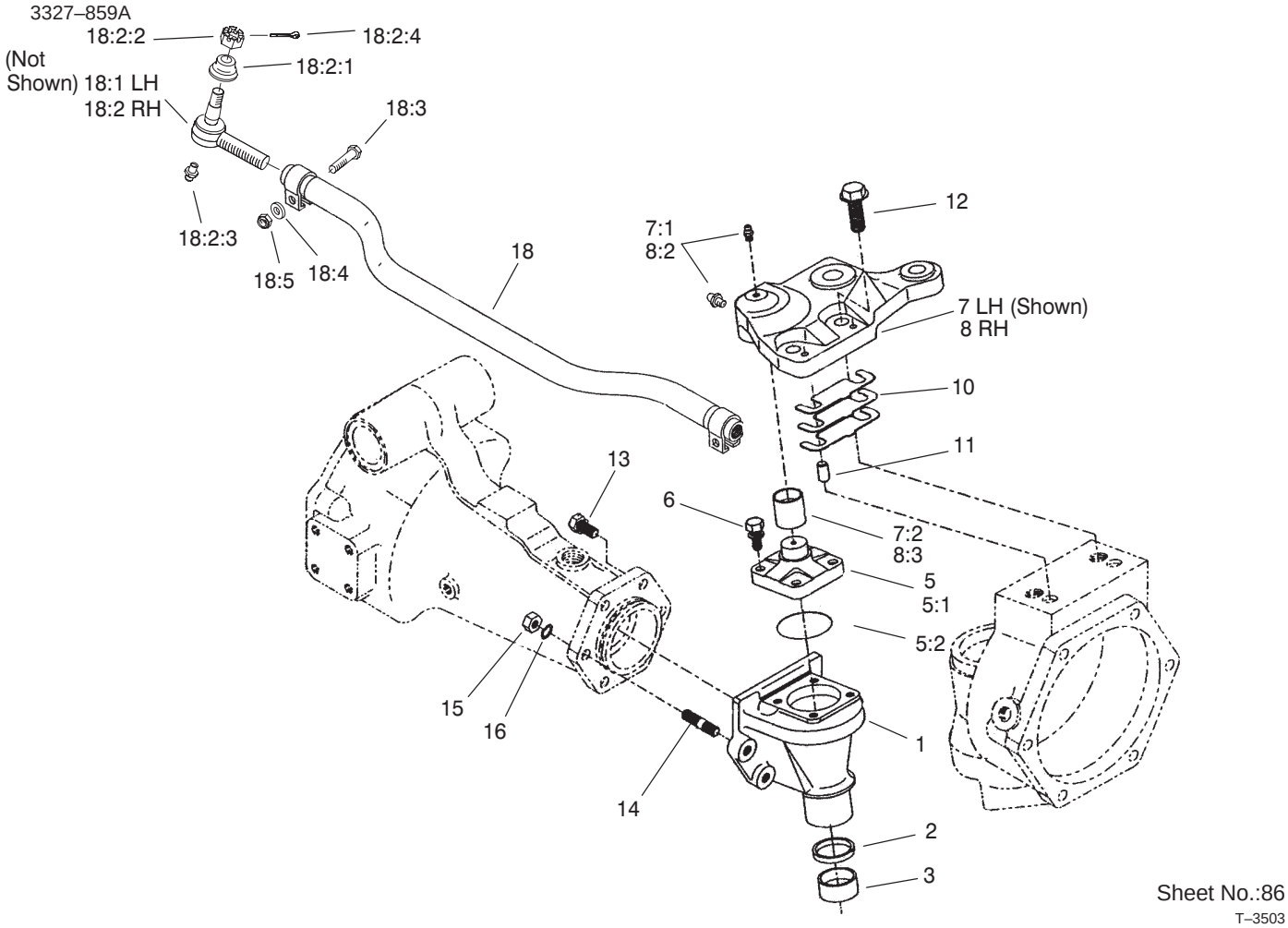
Sheet No.:85

T–3204–1

Rear Axle Assembly No. 100–3784 (Continued)
Axle Support Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7508	1	Support–Axle
2	95–7506	1	Support–Axle
3	95–7507	1	O–Ring
4	95–7537	2	Bushing–Flanged
5	99–7590	2	Washer–Seal
6	99–7589	2	Plug
7	99–7591	1	Oil Plug ASM
8	99–7592	8	Bolt
9	99–7593	2	O–Ring
10	104–2377	1	Extension, Vent
11	104–8643	1	Plug
12	104–8644	1	O–Ring

Ref. No.	Part No.	Qty.	Description

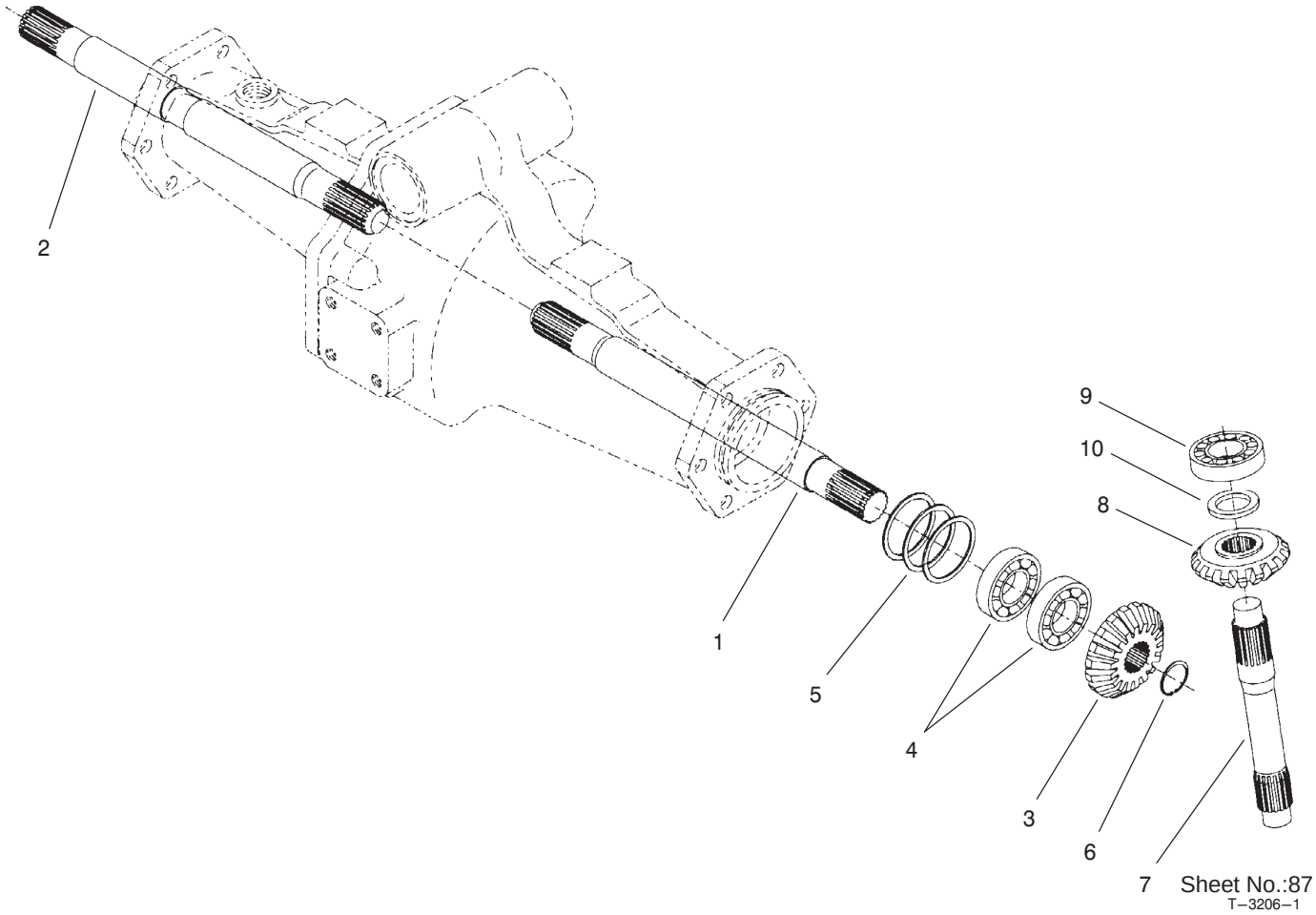


Rear Axle Assembly No. 100–3784 (Continued)
Bevel Gear Case Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7538	2	Case–Bevel Gear
2	100–2557	2	Seal–Oil
3	104–2378	2	Bushing
5	104–2376	2	Knuckle ASM
5:1	104–2373	1	Knuckle
5:2	104–2372	1	O–Ring
6	104–2374	8	Bolt
7	100–3768	1	LH Steering Arm ASM
7:1	302–5	2	Fitting–Grease
7:2	104–8634	1	Bushing
8	100–3766	1	RH Steering Arm ASM
8:2	302–5	2	Fitting–Grease
8:3	104–8634	1	Bushing
10	95–7547	2	Shim 0.1
10	95–7548	2	Shim 0.2
10	95–7549	2	Shim 0.4
11	99–7597	4	Pin–Dowel
12	104–2375	4	Bolt
13	99–7599	8	Bolt
14	99–7525	4	Stud
15	99–7526	4	Nut
16	99–7527	4	Washer–Spring
18	100–3762	1	Tie Rod ASM
*18:1	100–3851	1	LH Tie Rod End ASM

Ref. No.	Part No.	Qty.	Description
*18:1:1	100–3853	1	Cover–Dust
*18:1:2	100–3854	1	Nut–Castle
*18:1:3	302–5	1	Fitting–Grease
*18:1:4	3272–11	1	Pin–Cotter
18:2	100–3852	1	RH Tie Rod End ASM
18:2:1	100–3853	1	Cover–Dust
18:2:2	100–3854	1	Nut–Castle
18:2:3	302–5	1	Fitting–Grease
18:2:4	3272–11	1	Pin–Cotter
18:3	100–3855	2	Bolt
18:4	99–7527	2	Washer–Spring
18:5	99–7526	2	Nut

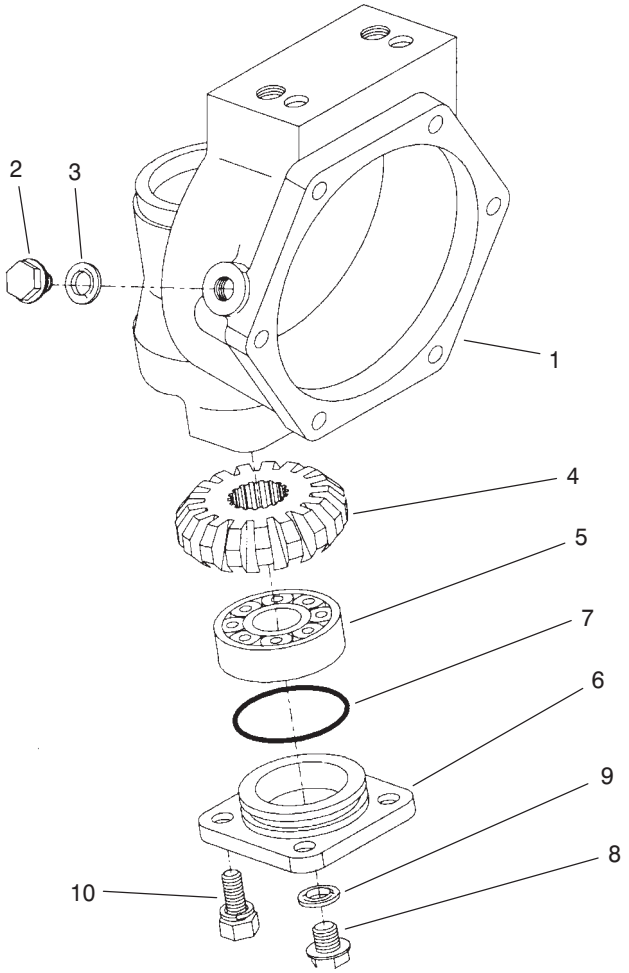
* Not illustrated



Rear Axle Assembly No. 100–3784 (Continued)
Bevel Gear Shaft Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7509	1	Shaft–Gear, Differential
2	95–7512	1	Shaft–Gear, Differential
3	95–7517	2	Gear–15 Tooth Bevel
4	99–7530	4	Bearing–Ball
5	99–7552	2	Shim 0.1
5	99–7553	2	Shim 0.2
5	99–7554	2	Shim 0.5
6	99–7531	2	Clip
7	95–7529	2	Shaft–Bevel Gear
8	95–7519	2	Gear–17 Tooth Bevel
9	99–7532	2	Bearing–Taper Roller
10	99–7558	2	Collar

Ref. No.	Part No.	Qty.	Description

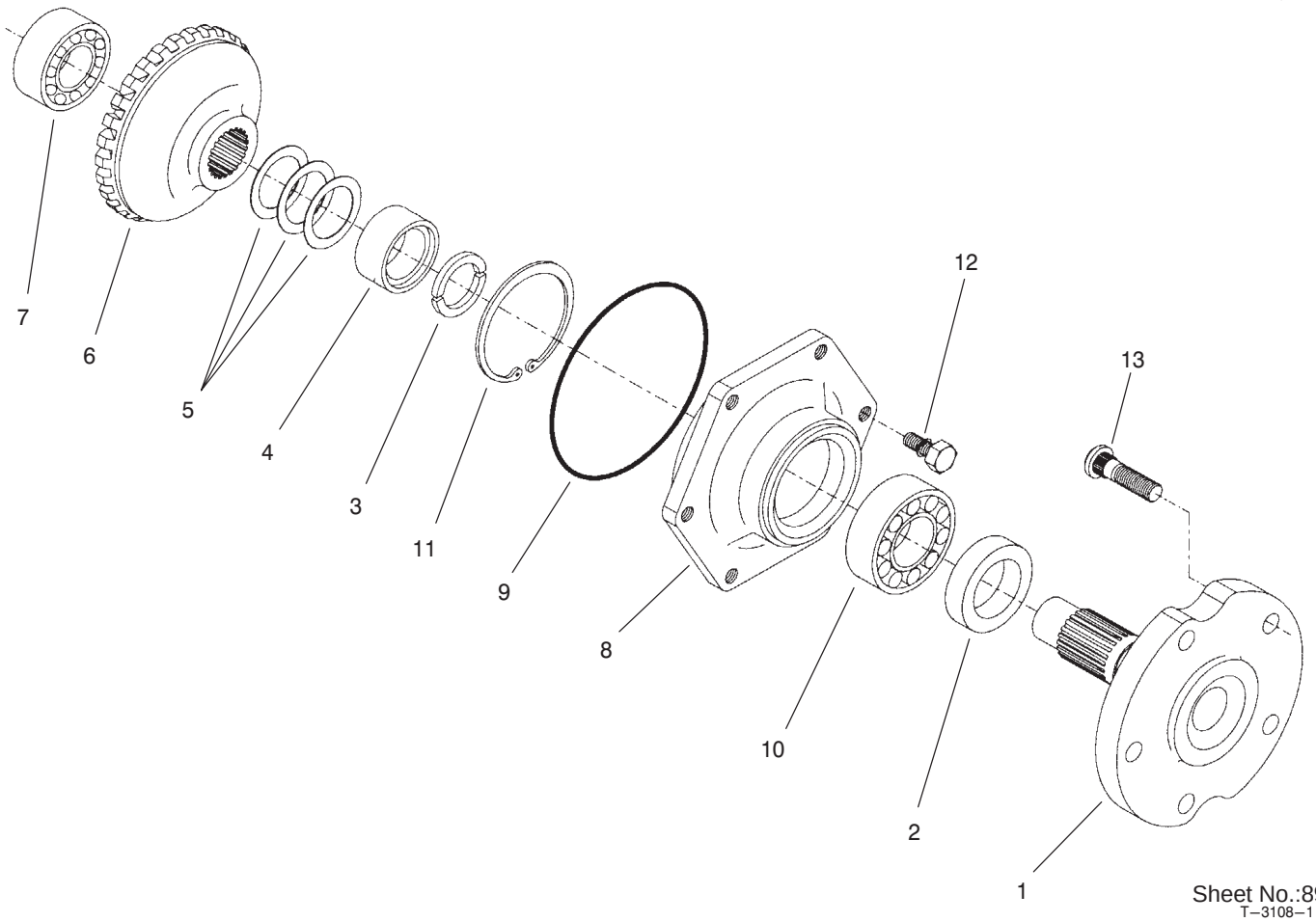


Sheet No.:88
T–3207–1

Rear Axle Assembly No. 100–3784 (Continued)
Axle Case Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7531	2	Case–Axle
2	99–7535	2	Plug
3	99–7536	2	Washer–Seal
4	95–7527	2	Gear–17 Tooth Bevel
5	99–7532	2	Bearing–Taper Roller
6	100–2560	2	Cover
7	100–2561	2	O–Ring
8	99–7589	2	Plug
9	99–7590	2	Washer–Seal
10	100–2562	8	Bolt

Ref. No.	Part No.	Qty.	Description



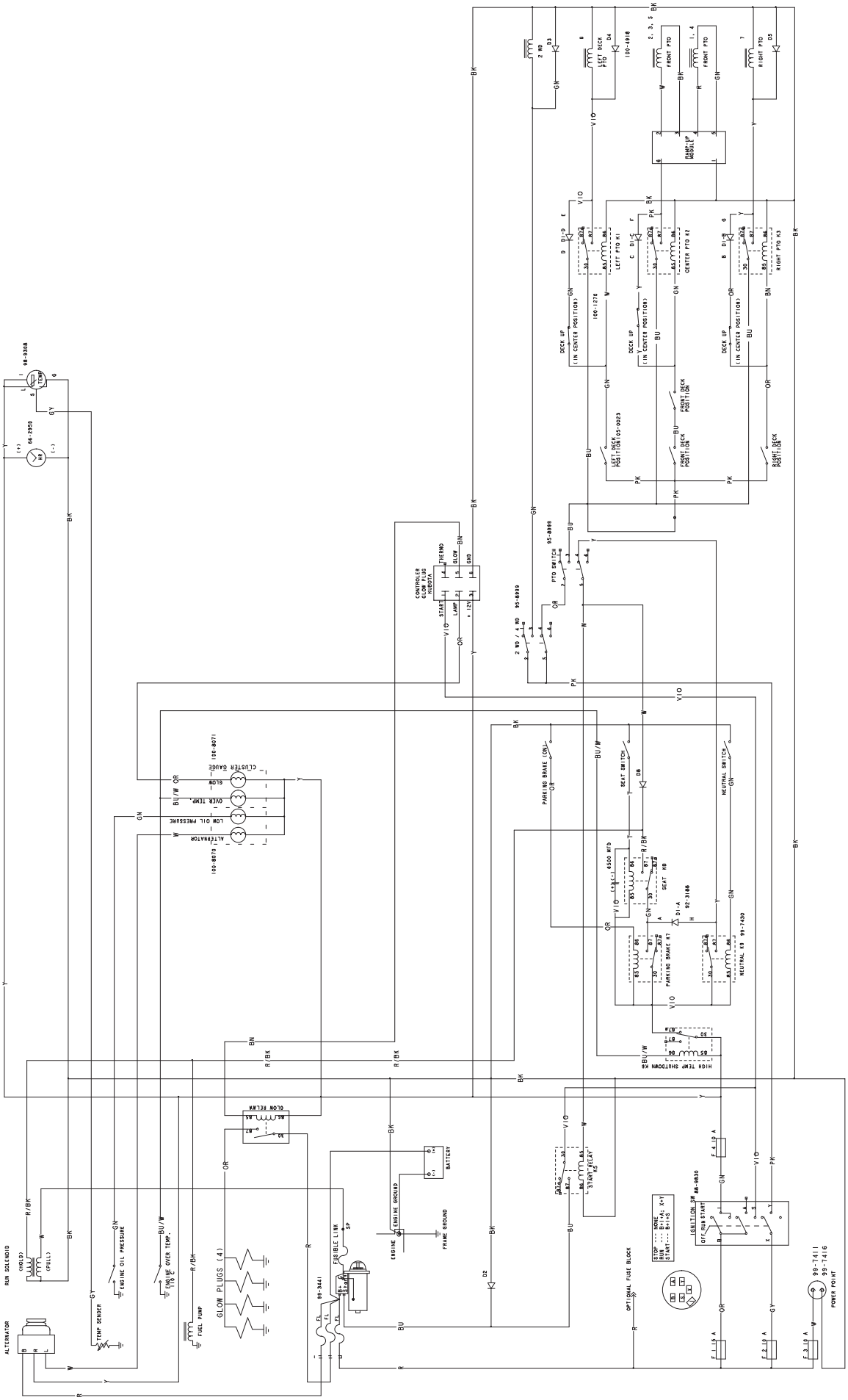
Sheet No.:89
T–3108–1

Rear Axle Assembly No. 100–3784 (Continued)
Axle Assembly

Ref. No.	Part No.	Qty.	Description
1	95–7522	2	Axle
2	99–7564	2	Seal–Oil
3	95–7544	4	Clip
4	95–7523	2	Spacer
5	99–7555	2	Shim 0.3
5	99–7556	2	Shim 0.2
5	99–7557	2	Shim 0.5
6	95–7524	2	Gear–29 Tooth Bevel
7	99–7534	2	Bearing–Ball
8	95–7521	2	Cover–Axle
9	99–7538	2	O–Ring
10	99–7561	2	Bearing–Ball
11	99–7539	2	Clip
12	99–7596	12	Bolt
13	99–7563	10	Stud

Ref. No.	Part No.	Qty.	Description

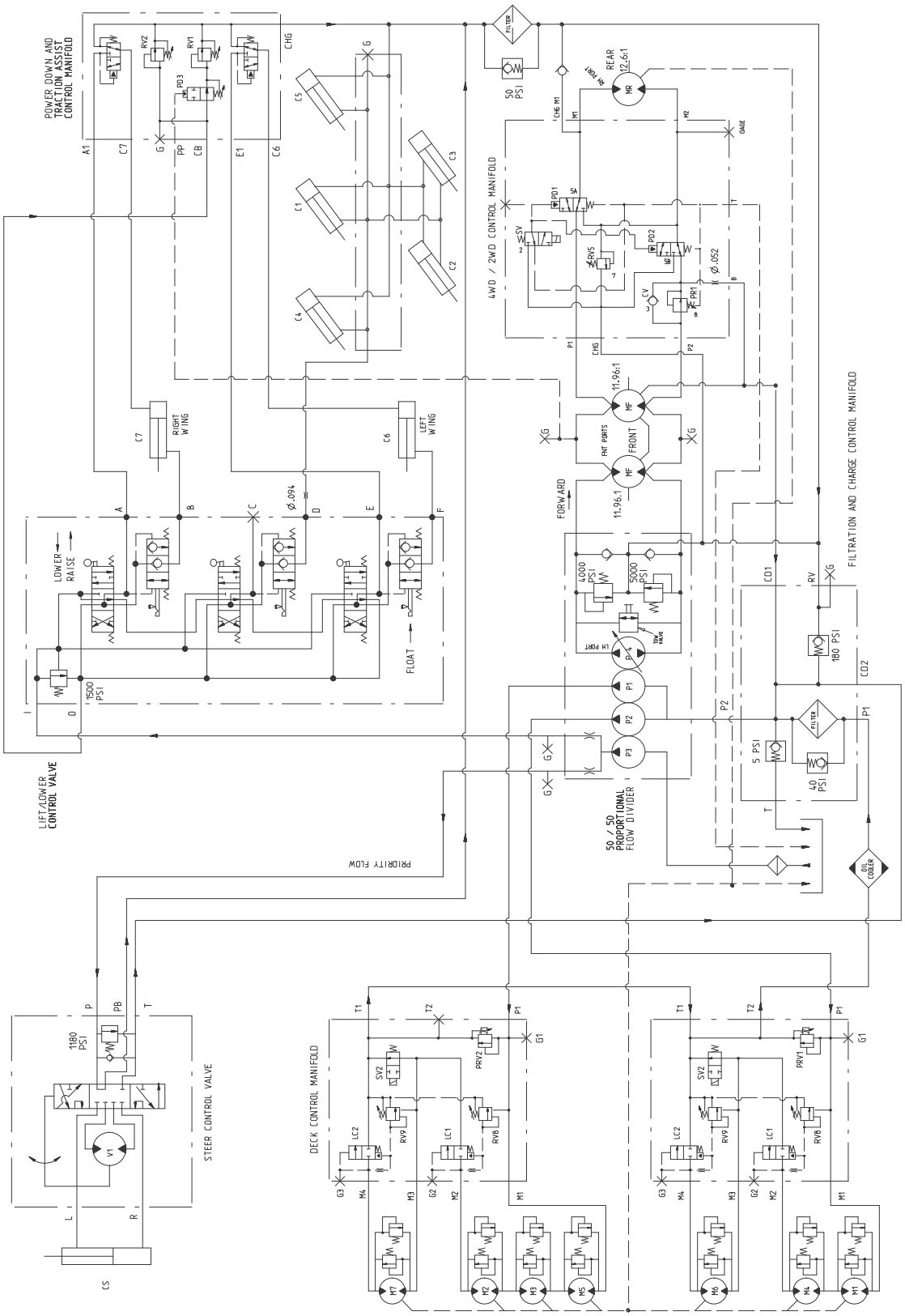
Electrical Schematic

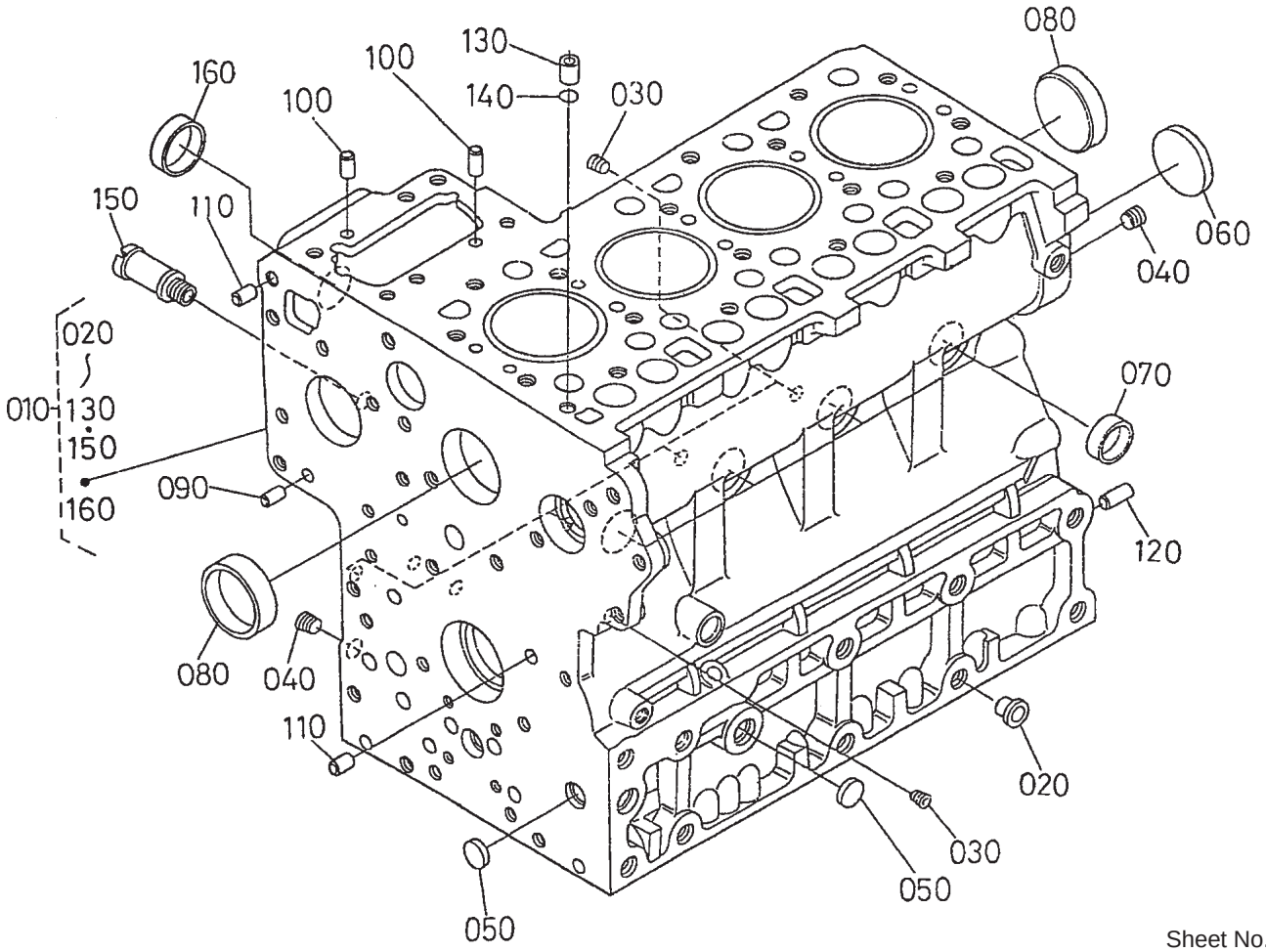


Hydraulic Schematic

FLOWS CALC. AT 2700 RPM AND .98 EFF.			
COMP.	CIR	GPM	PSI
P1	1.02	11.7	
P2	1.02	11.7	
P3	0.58	6.6	
P4	3.02	34.6	
M1	1.16		2100
M2	1.16		2100
M3	1.16		2100
M4	1.16		2100
M5	1.16		2100
M6	1.16		2100
M7	1.16		2100
MF	2.01		
MR	2.48		
V1	6.1		
PD3			2000
RV1			520
RV2			600
PR1			450
PRV1			3500
PRV2			3500
RV5			550
RV8			1100
RV9			1100

COMP.	BORE	STROKE	ROD
C1	1.50	4.00	.625
C2	1.50	3.50	.625
C3	1.50	3.50	.625
C4	1.50	7.00	.625
C5	1.50	7.00	.625
C6	2.00	9.00	.750
C7	2.00	9.00	.750
CS	2.00	4.20	.625



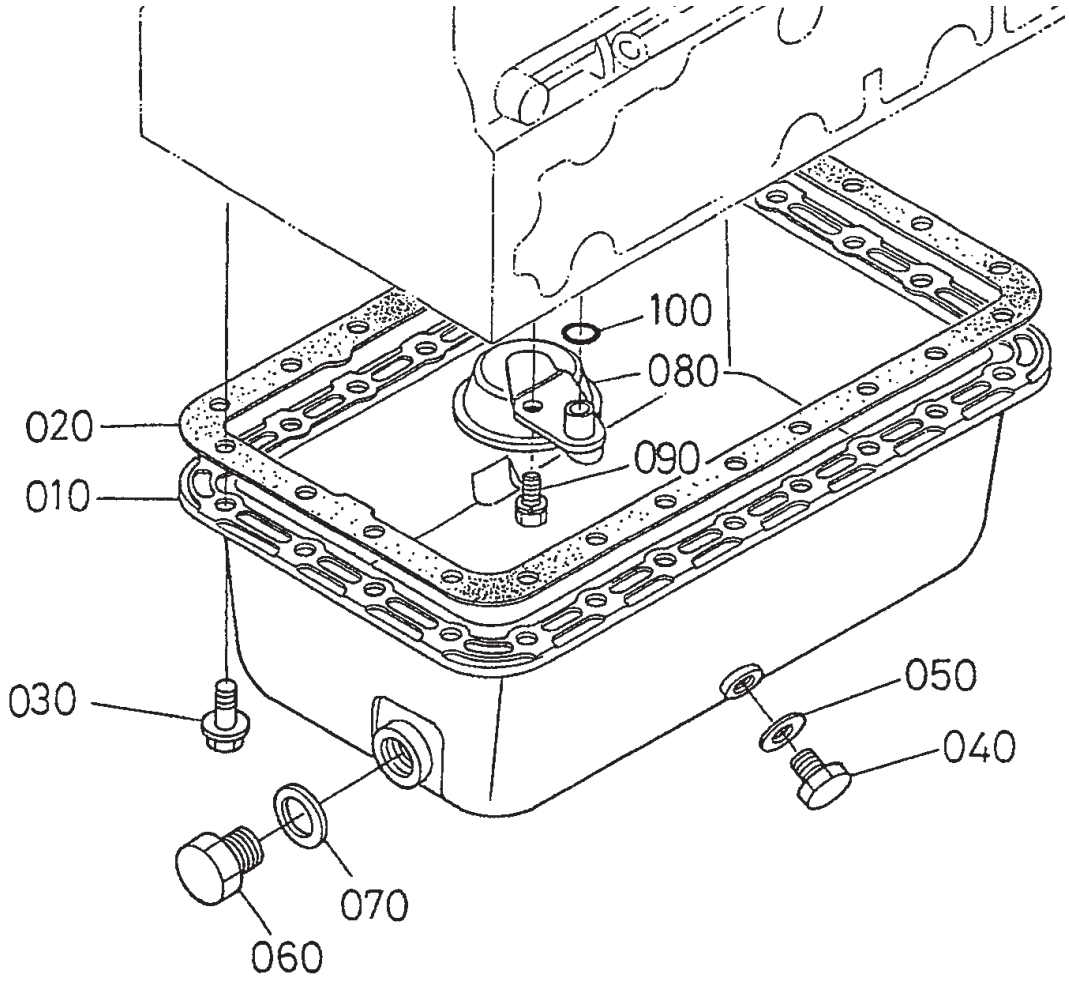


Sheet No.:40

Crankcase Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9150	1	Crankcase
020	98–7486	2	Plug
030	98–7487	6	Plug
040	98–7488	2	Plug
050	98–7489	3	Plug
060	98–7490	1	Plug
070	98–7500	6	Cap–Sealing
080	98–7501	2	Cap–Sealing
090	98–7502	2	Pin–Straight
100	98–7503	2	Pin–Straight
110	98–7504	2	Pin–Straight
120	98–7505	1	Pin–Straight
130	98–7506	1	Pin–Pipe
140	98–7509	1	O–Ring
150	100–9153	1	Pipe–Return, Water
160	105–2883	1	Cap–Sealing

Ref. No.	Part No.	Qty.	Description

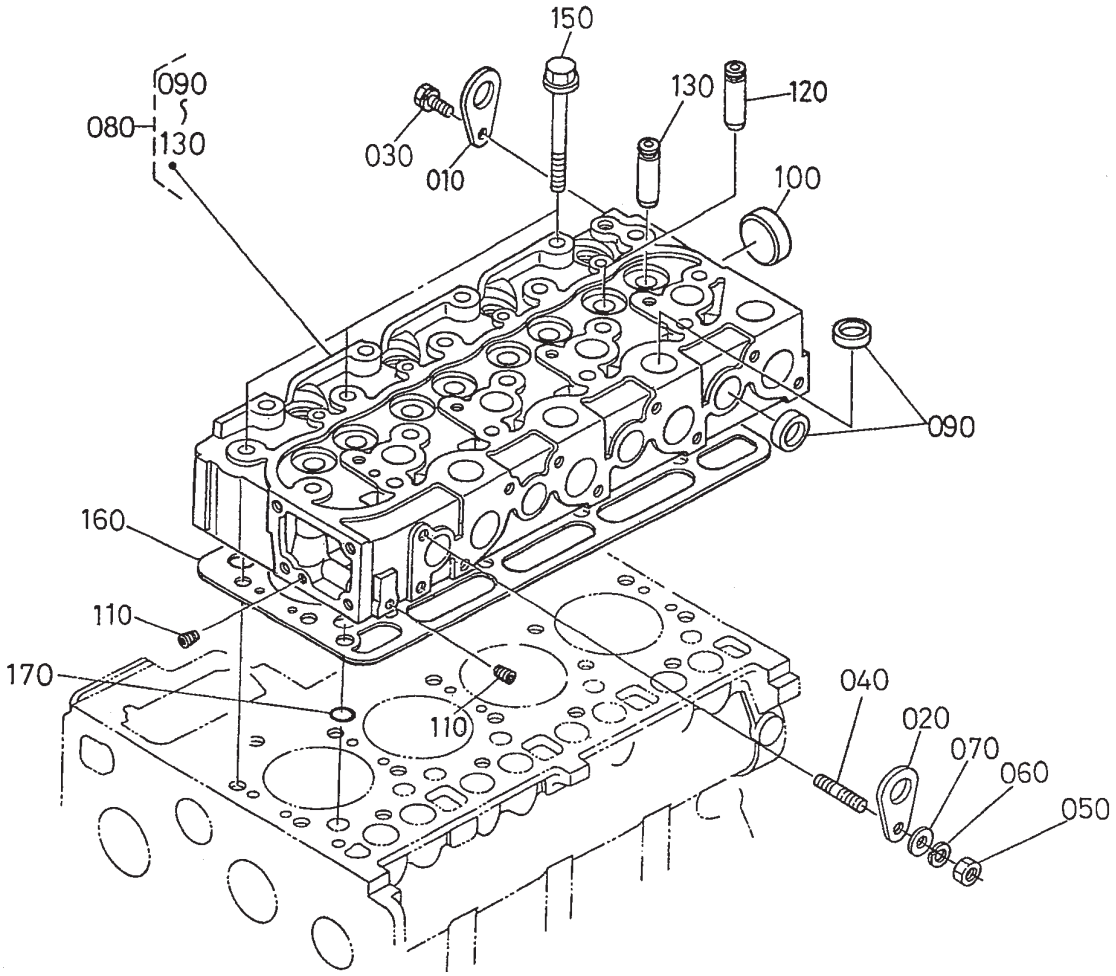


Sheet No.:41

Oil Pan Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7520	1	Pan–Oil
020	98–7521	1	Gasket
030	98–7522	24	Bolt–Flange
040	98–9386	1	Plug
050	98–7524	1	Gasket
060	98–7529	1	Plug–Drain
070	98–7527	1	O–Ring
080	98–7525	1	Filter–Oil
090	98–7526	1	Bolt
100	98–7528	1	O–Ring

Ref. No.	Part No.	Qty.	Description

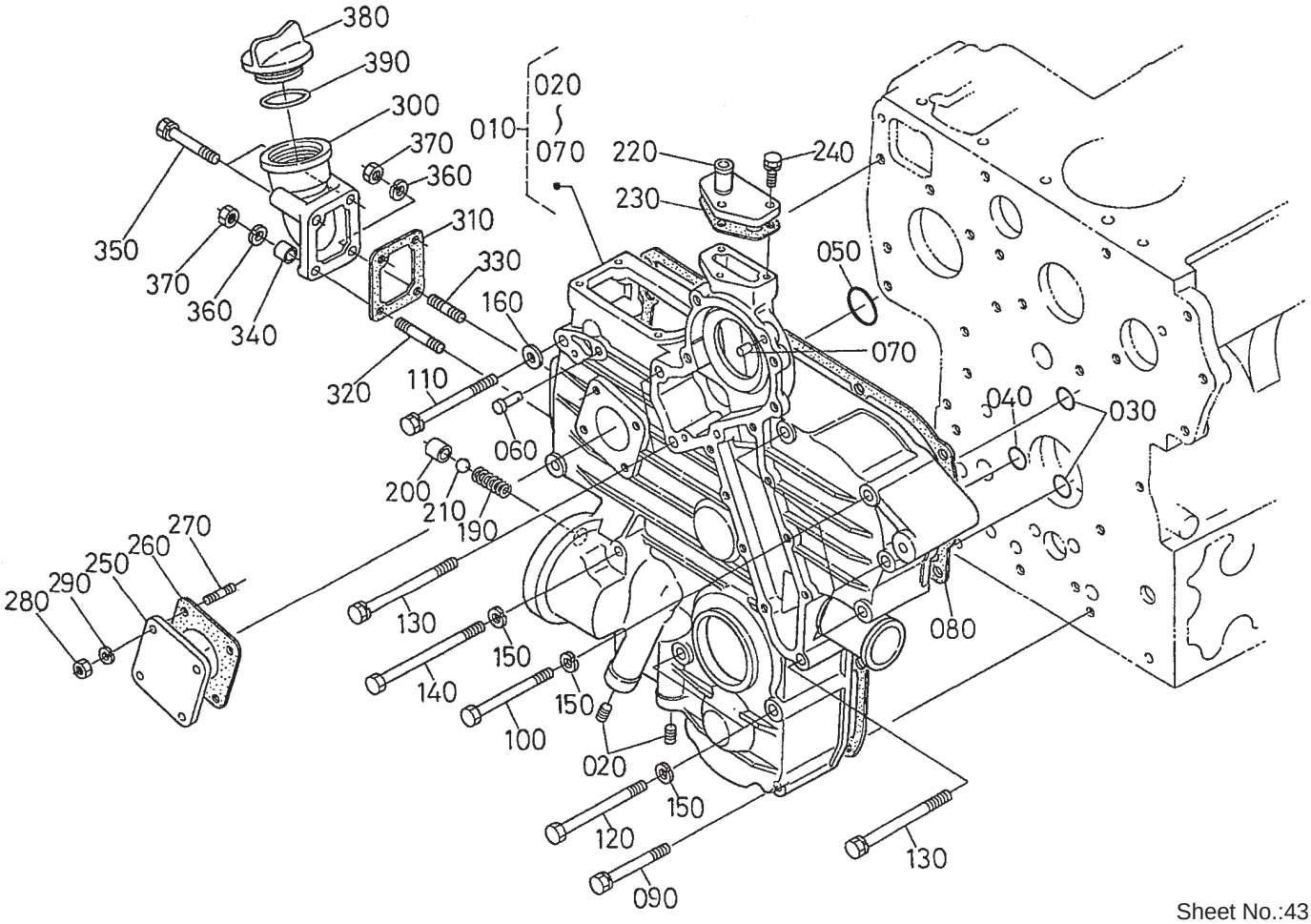


Sheet No.:42

Cylinder Head Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7530	1	Hook–Engine
020	98–7531	1	Hook–Engine
030	98–7526	1	Bolt
040	98–7533	1	Stud
050	100–1559	1	Nut–Manifold, Exhaust
060	99–8339	1	Washer–Spring
070	98–7536	1	Washer–Plain
080	100–9159	1	Head–Cylinder
090	98–7538	12	Cap–Sealing
100	98–7539	1	Cap–Sealing
110	98–7540	2	Cap–Sealing
120	98–7541	4	Plug
130	98–7542	4	Guide–Valve, Exhaust
150	98–7543	18	Bolt–Head, Cylinder
160	100–9160	1	Gasket–Head, Cylinder
170	98–7509	1	O–Ring

Ref. No.	Part No.	Qty.	Description

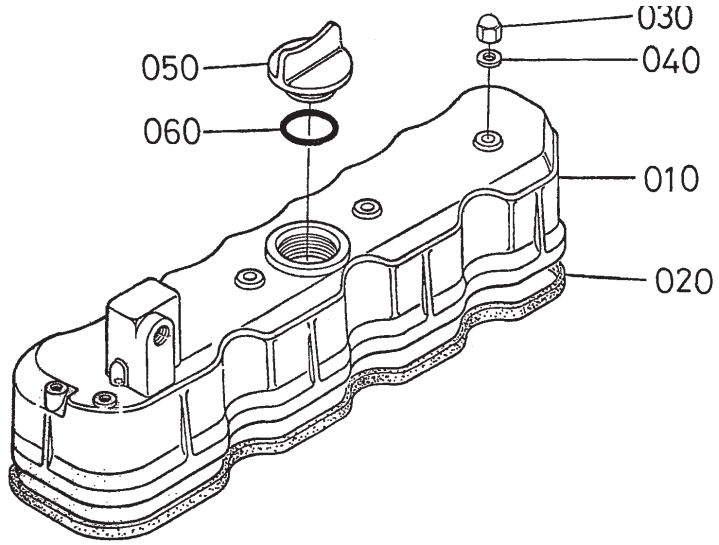


Sheet No.:43

Gear Case Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9161	1	Gearcase ASM
020	98–7546	2	Plug
030	98–7547	2	O–Ring
040	98–7548	1	O–Ring
050	98–7549	1	O–Ring
060	98–7550	1	Pin–Spring, Start
070	98–7504	2	Pin–Straight
080	98–7552	1	Packing–Case, Gear
090	98–7553	2	Bolt
100	99–8336	5	Bolt
110	98–7555	1	Bolt
120	98–7556	2	Bolt
130	98–7557	3	Bolt
140	98–7558	2	Bolt
150	99–8339	9	Washer–Spring
160	98–7536	1	Washer–Plain
190	98–7563	1	Spring
200	98–7564	1	Seat–Valve
210	98–7565	1	Ball
220	98–7566	1	Flange–Return, Water
230	98–7567	1	Gasket
240	98–7568	3	Bolt
250	98–7569	1	Cover
260	98–7570	1	Gasket–Unit, H/Meter
270	98–7571	4	Stud
280	98–7572	4	Nut

Ref. No.	Part No.	Qty.	Description
290	98–7699	4	Washer–Spring
300	100–9162	1	Flange–Filter, Oil
310	100–9163	1	Gasket
320	98–7571	1	Stud
330	100–9164	1	Stud
340	100–9165	1	Collar
350	98–7496	2	Bolt
360	98–7699	2	Washer–Spring
370	98–7572	2	Nut
380	98–7429	1	Plug–Filter, Oil
390	98–7430	1	O–Ring

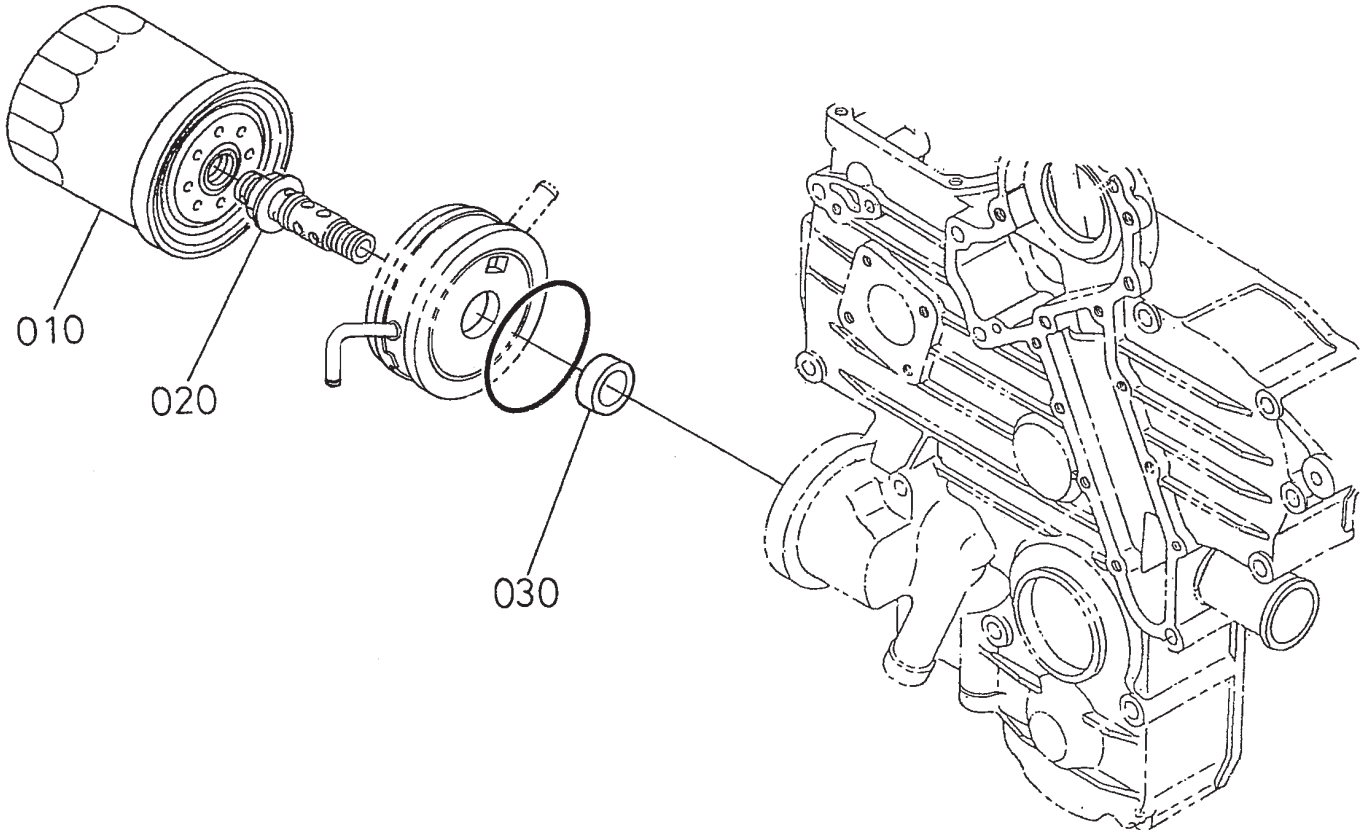


Sheet No.:44

Head Cover Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7425	1	Cover–Head, Cylinder
020	98–7426	1	Gasket–Cover, Head
030	98–7427	4	Nut–Cap
040	98–7428	4	Gasket
050	98–7429	1	Plug–Filter, Oil
060	98–7430	1	O–Ring

Ref. No.	Part No.	Qty.	Description

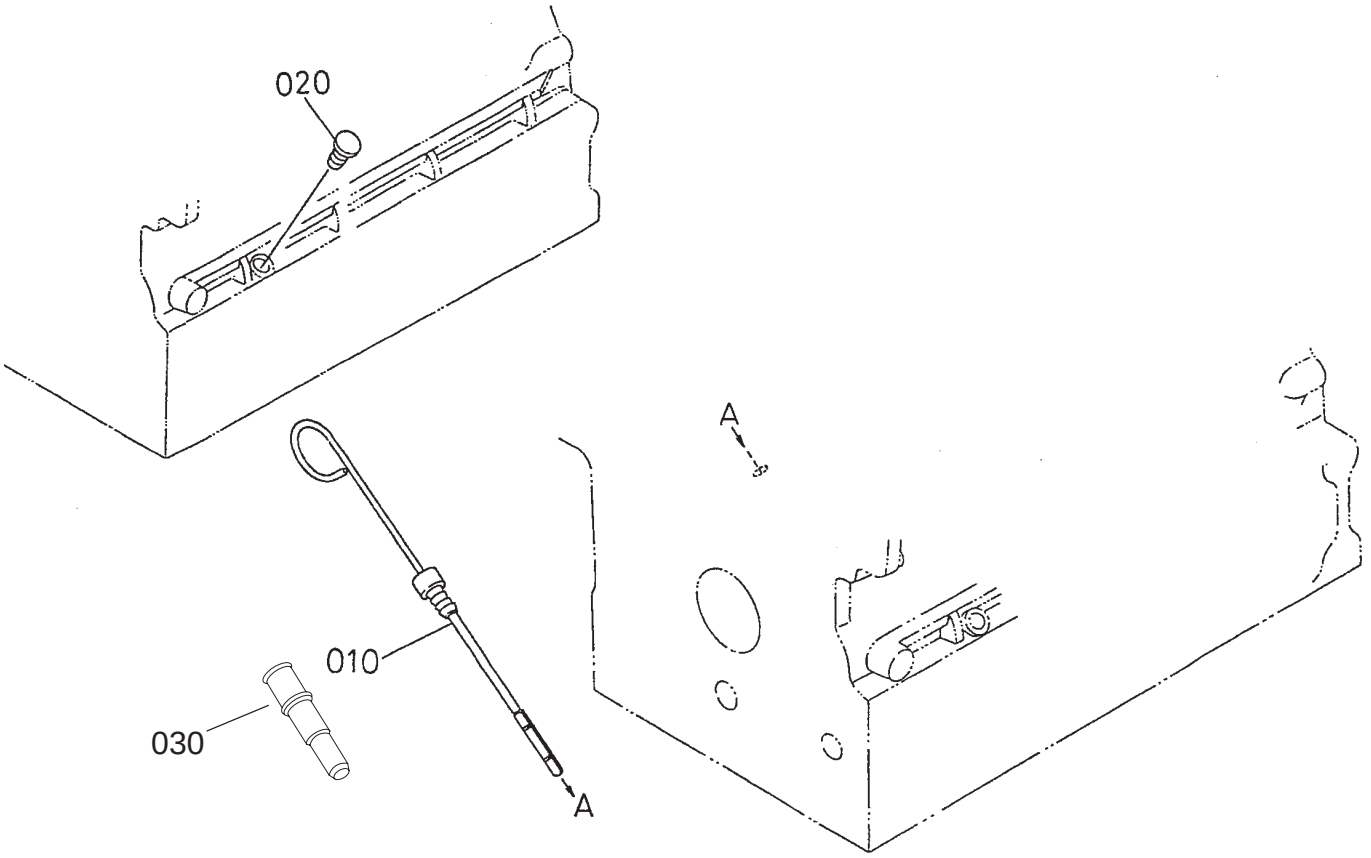


Sheet No.:45

Oil Filter Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7431	1	Cartridge–Filter, Oil
020	100–9166	1	Connector
030	100–9167	1	Collar

Ref. No.	Part No.	Qty.	Description

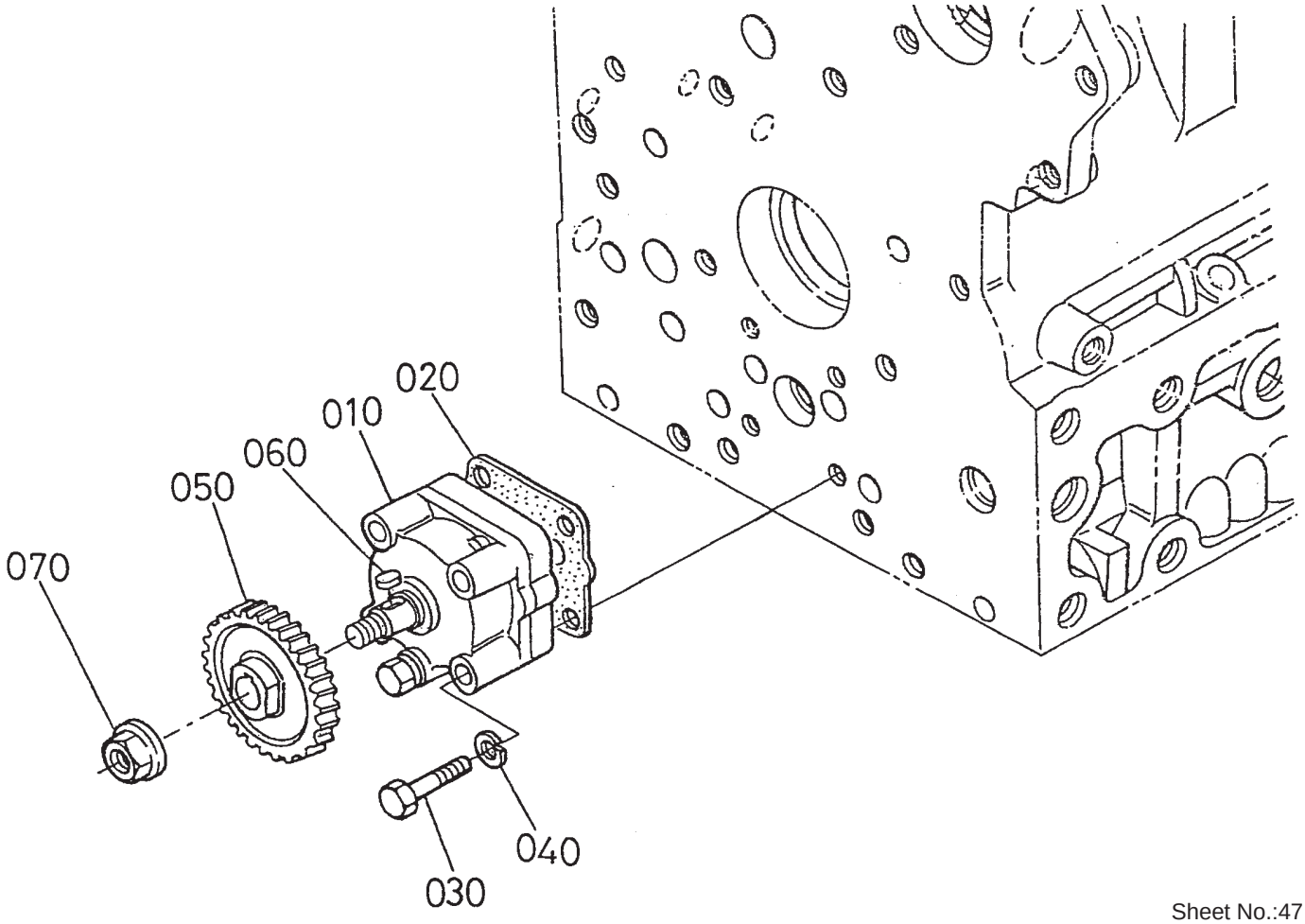


Sheet No.:46

Dipstick and Guide Assembly

Ref. No.	Part No.	Qty.	Description
010	105–4579	1	Gauge–Oil
020	100–9169	1	Plug–Gauge, Oil
030	105–4580	1	Guide

Ref. No.	Part No.	Qty.	Description

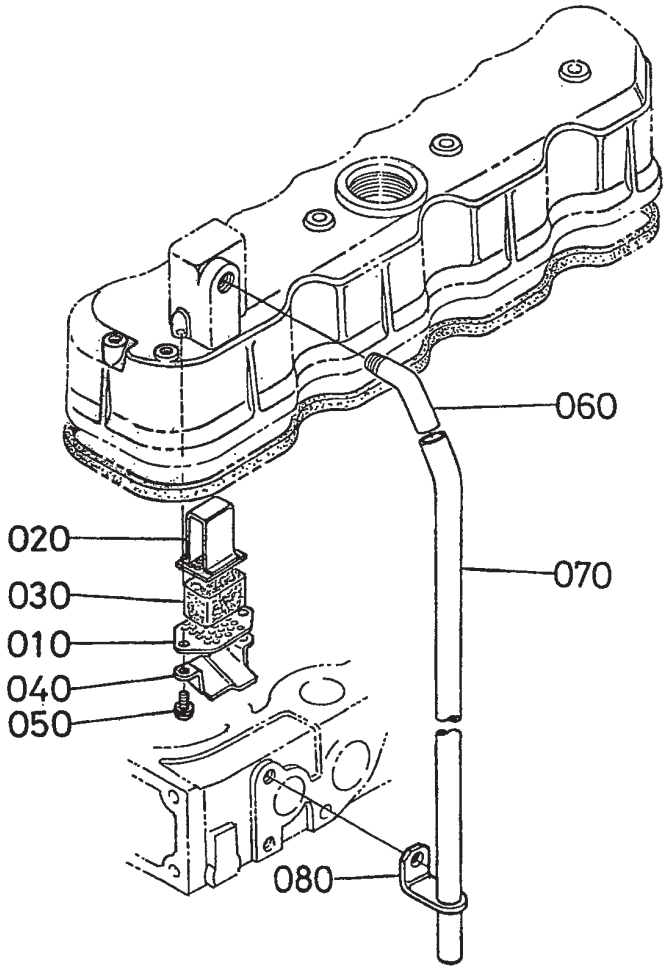


Sheet No.:47

Oil Pump Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9170	1	Oil Pump ASM
020	98–7513	1	Gasket–Pump, Oil
030	98–7514	4	Bolt
040	98–7699	4	Washer–Spring
050	98–7516	1	Gear–Drive, Oil Pump
060	98–7517	1	Key–Feather
070	98–7518	1	Nut–Flange

Ref. No.	Part No.	Qty.	Description

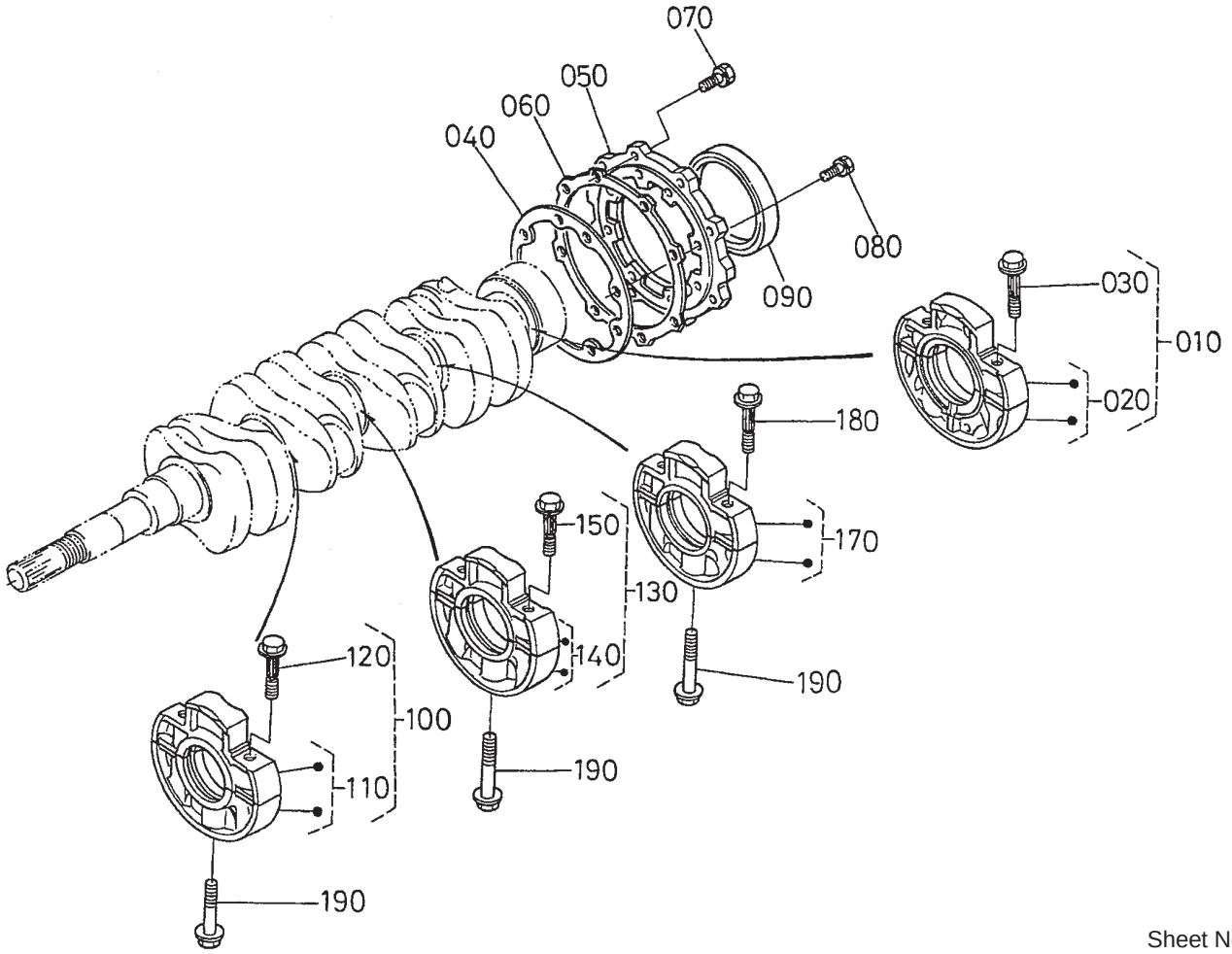


Sheet No.:48

Breather Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7417	1	Plate–Element
020	98–7418	1	Plate–Element
030	98–7419	1	Element–Breather
040	98–7420	1	Shield–Breather, Oil
050	98–7421	2	Screw–W/Washer
060	98–7422	1	Joint–Pipe, Breather
070	98–7423	1	Pipe–Breather
080	98–7424	1	Clamp–Pipe

Ref. No.	Part No.	Qty.	Description

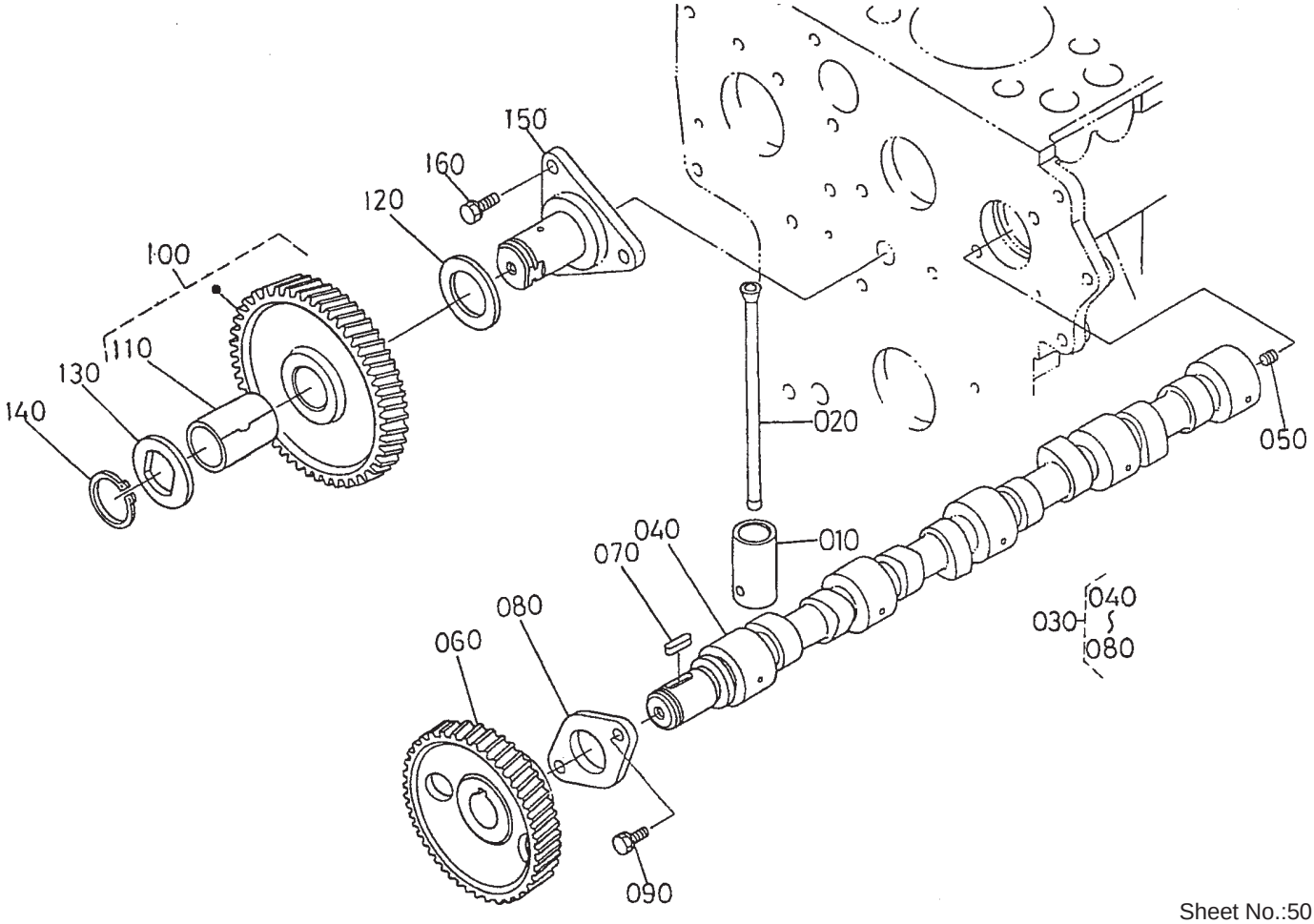


Sheet No.:49

Main Bearing Case

Ref. No.	Part No.	Qty.	Description
010	100–9172	1	Wheel Bearing Case ASM
020	100–9173	1	Bearing Case ASM
030	98–7434	2	Bolt–Case, Bearing
040	98–7435	1	Gasket–Case, Bearing
050	98–7436	1	Cover–Case, Bearing
060	98–7437	1	Gasket–Case Cover, Bearing
070	98–7438	8	Bolt
080	98–7439	8	Bolt
090	98–7440	1	Seal–Oil
100	100–9174	1	Main Bearing Case ASM
110	100–9175	1	Bearing Case ASM
120	98–7434	2	Bolt–Case, Bearing
130	100–9176	1	Main Bearing Case ASM
140	100–9177	1	Bearing Case ASM
150	98–7434	2	Bolt–Case, Bearing
170	100–9178	1	Bearing Case ASM
180	98–7434	2	Bolt–Case, Bearing
190	98–7444	3	Bolt–Case, Bearing

Ref. No.	Part No.	Qty.	Description

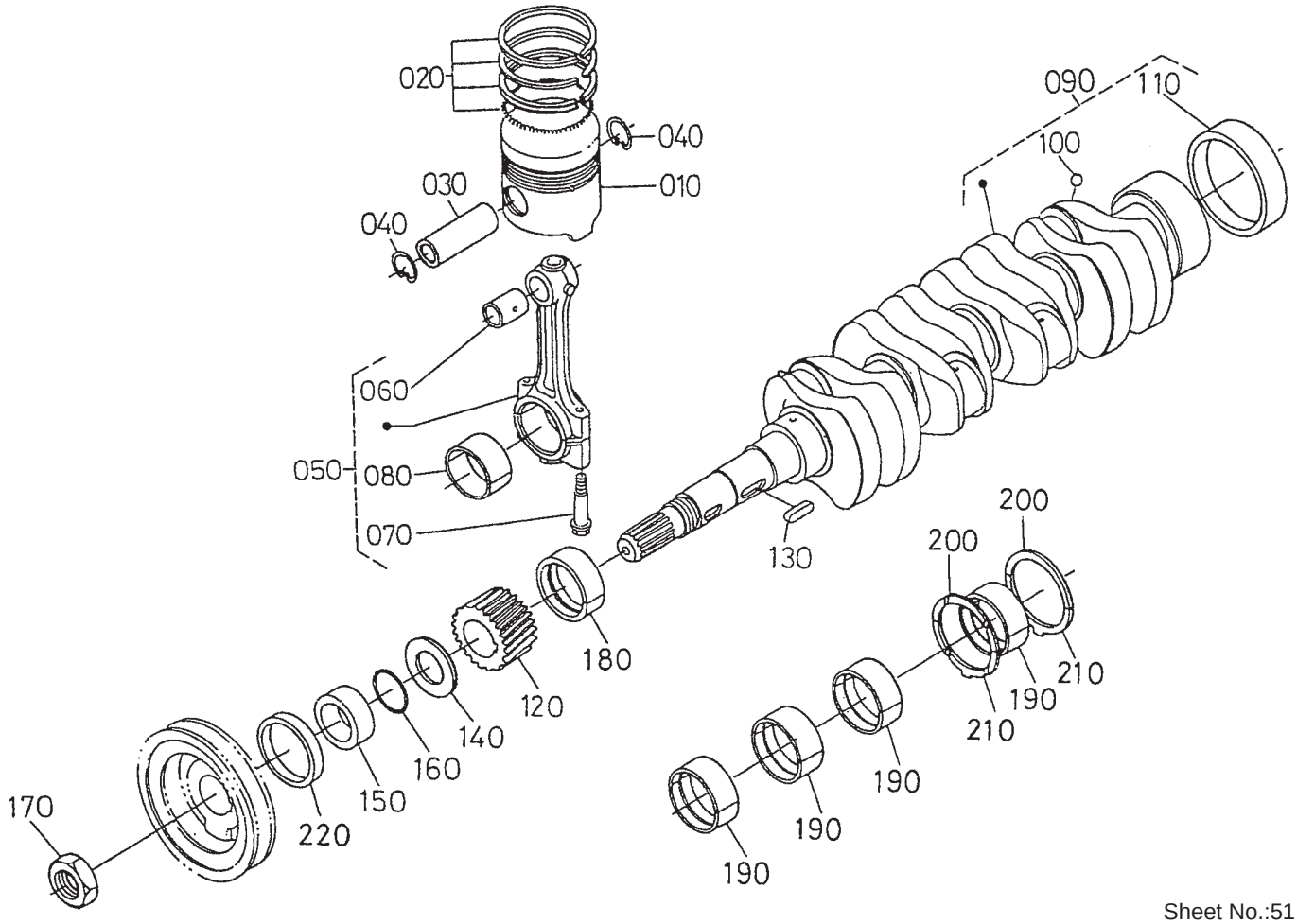


Sheet No.:50

Camshaft and Idler Gear Shaft Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7445	8	Tappet
020	98–7446	8	Rod–Push
030	100–9179	1	Camshaft ASM
040	100–9180	1	Camshaft
050	98–7449	1	Screw–Set
060	98–7450	1	Gear–Camshaft
070	98–7451	1	Key–Feather
080	98–7452	1	Stopper–Camshaft
090	98–7453	2	Bolt
100	98–7454	1	Gear–Idler, Complete
110	98–7455	1	Bushing–Gear, Idler
120	98–7456	1	Collar
130	98–7457	1	Collar
140	98–7458	1	Clip–Cir., External
150	98–7459	1	Shaft–Gear, Idler
160	98–7453	3	Bolt

Ref. No.	Part No.	Qty.	Description

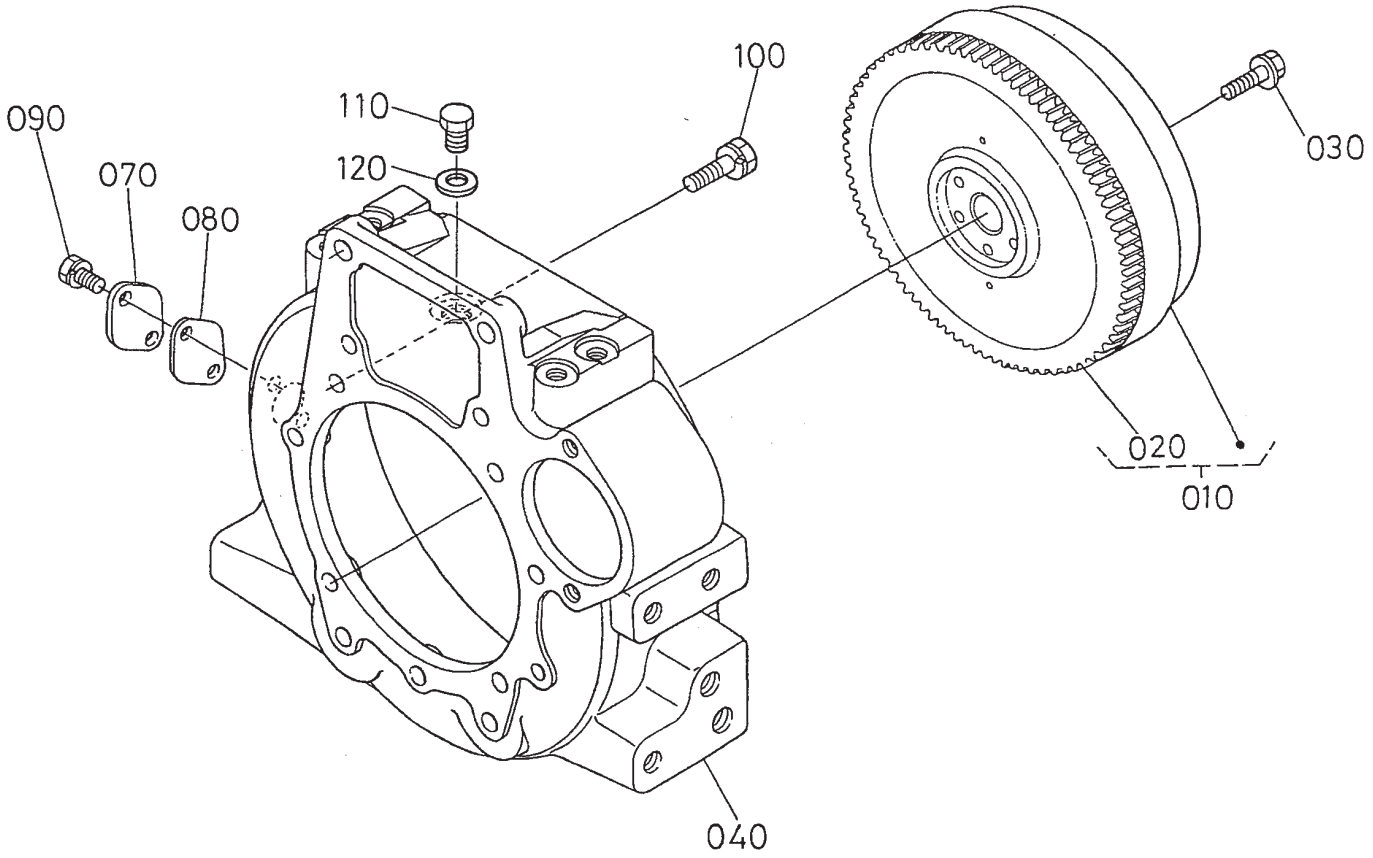


Sheet No.:51

Piston and Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
010	99–5435	1	Piston (.50mm)
010	100–9181	4	Piston–STD
020	100–9182	4	Piston Ring ASM (STD)
020	99–5436	1	Piston Ring ASM (0.50mm)
030	98–7464	4	Pin–Piston
040	98–7465	8	Clip–Pin, Piston
050	98–7466	4	Connecting Rod ASM
060	98–7467	4	Bushing–Pin, Piston
070	98–7468	8	Bolt–Rod, Connecting
080	98–7471	4	Metal–Crankpin (–0.40mm)
080	98–7470	4	Metal–Crankpin (–0.20mm)
080	98–7469	4	Metal–Crankpin (STD)
090	98–7472	1	Crankshaft–Complete
100	98–7473	4	Ball
110	98–7474	1	Sleeve–Crankshaft
120	98–7475	1	Gear–Crankshaft
130	98–7451	1	Key–Feather
140	98–7476	1	Slinger–Oil
150	98–7477	1	Collar–Crankshaht
160	98–7478	1	O–Ring
170	98–7479	1	Nut–Crankshaft

Ref. No.	Part No.	Qty.	Description
180	98–7483	1	Metal–Crankshaft (–0.40mm)
180	98–7482	1	Metal–Crankshaft (–0.20mm)
180	98–7481	1	Metal–Crankshaft (STD)
190	99–6863	4	Metal–Crankshaft (–0.40mm)
190	99–6862	4	Metal–Crankshaft (–0.20mm)
190	98–7484	4	Metal–Crankshaft (STD)
200	98–9415	2	Bearing–Thrust (0.4mm)
200	98–9414	2	Bearing–Thrust (0.2mm)
200	99–6864	2	Metal–Side (STD)
210	99–6869	2	Metal–Side, O/S (0.4mm)
210	98–9689	2	Bearing–Thrust (0.2mm)
210	99–6867	2	Metal–Side (STD)
220	98–7480	1	Seal–Oil

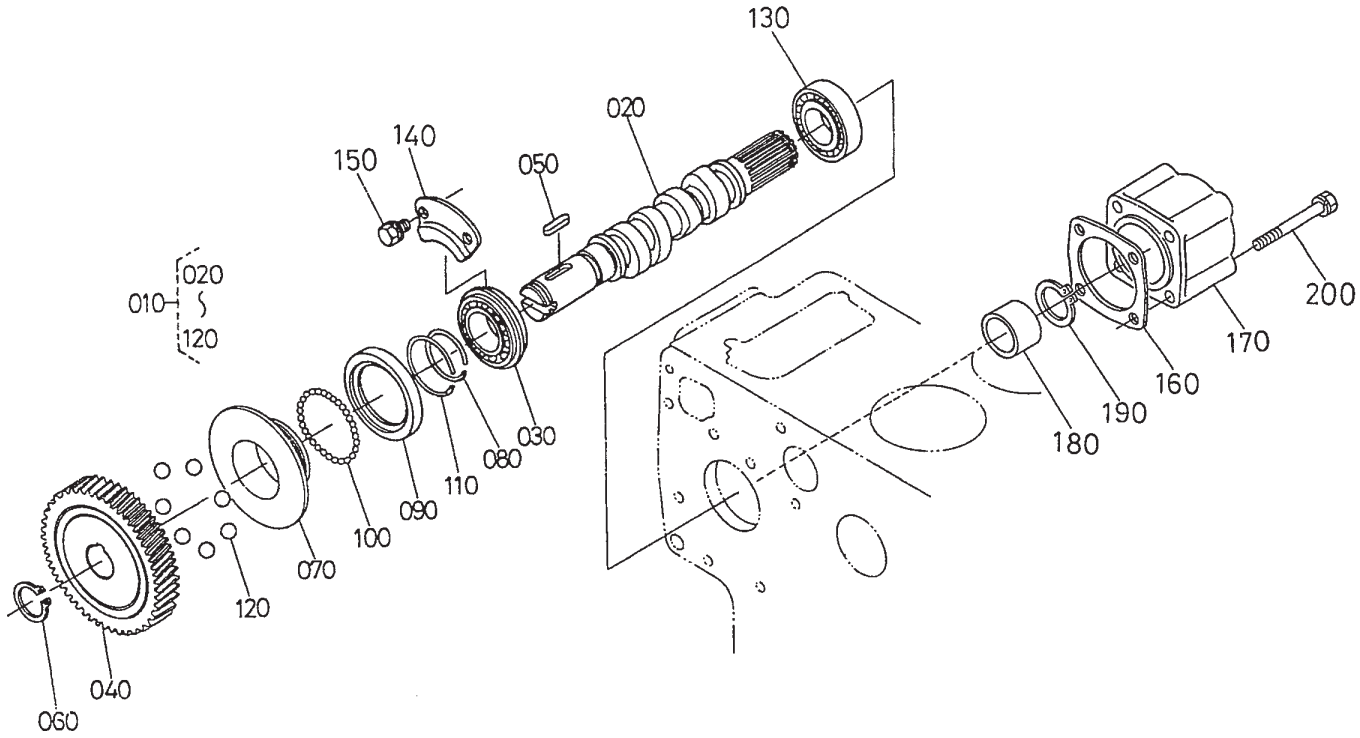


Sheet No.:52

Flywheel Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7532	1	Flywheel
020	98–7560	1	Gear–Ring
030	98–7573	6	Bolt–Flywheel
040	98–7559	1	Housing–Flywheel
070	98–7883	1	Cover
080	98–7886	1	Gasket
090	105–4577	2	Bolt
100	98–7885	11	Bolt
110	98–7546	1	Plug
120	100–9194	1	Washer–Plain

Ref. No.	Part No.	Qty.	Description

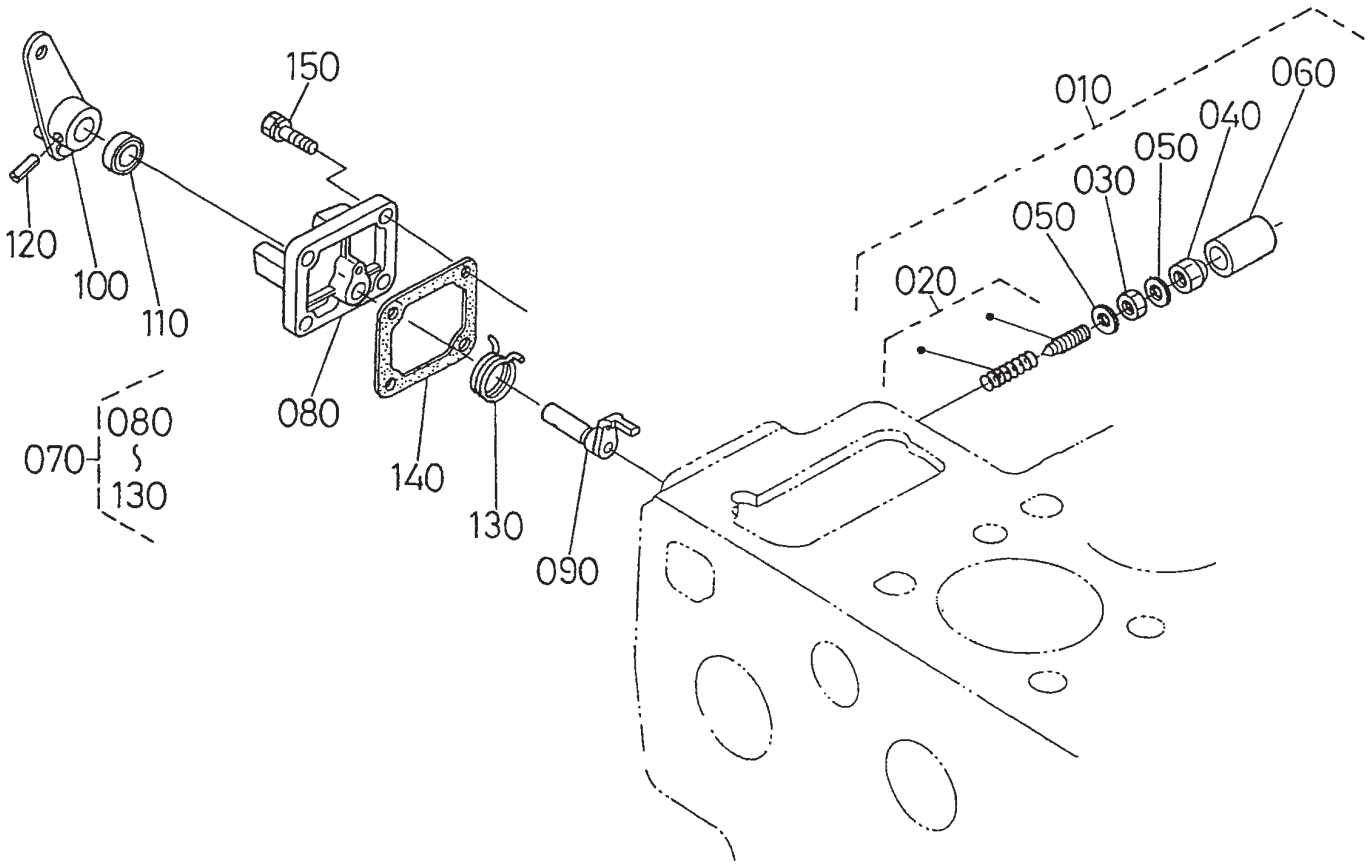


Sheet No.:53

Fuel Camshaft and Governor Shaft Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7551	1	Fuel Camshaft ASM
020	98–7508	1	Camshaft–Fuel
030	98–7595	1	Bearing–Ball
040	98–7574	1	Gear–Pump, Injection
050	98–7575	1	Key–Feather
060	98–7576	1	Clip–Cir, External
070	98–7577	1	Sleeve–Governor
080	98–7578	1	Clip–Cir., Governor Sleeve
090	98–7579	1	Case–Ball, Governor
100	98–7580	39	Ball
110	98–7581	1	Clip–Cir.
120	98–7582	7	Ball
130	98–7583	1	Bearing–Ball
140	98–7584	1	Stopper
150	100–9195	2	Bolt
160	98–7588	1	Gasket
170	98–7586	1	Cover–Fuel, Camshaft
180	98–7587	1	Collar
190	98–7589	1	Clip–Cir., External
200	98–7590	4	Bolt

Ref. No.	Part No.	Qty.	Description

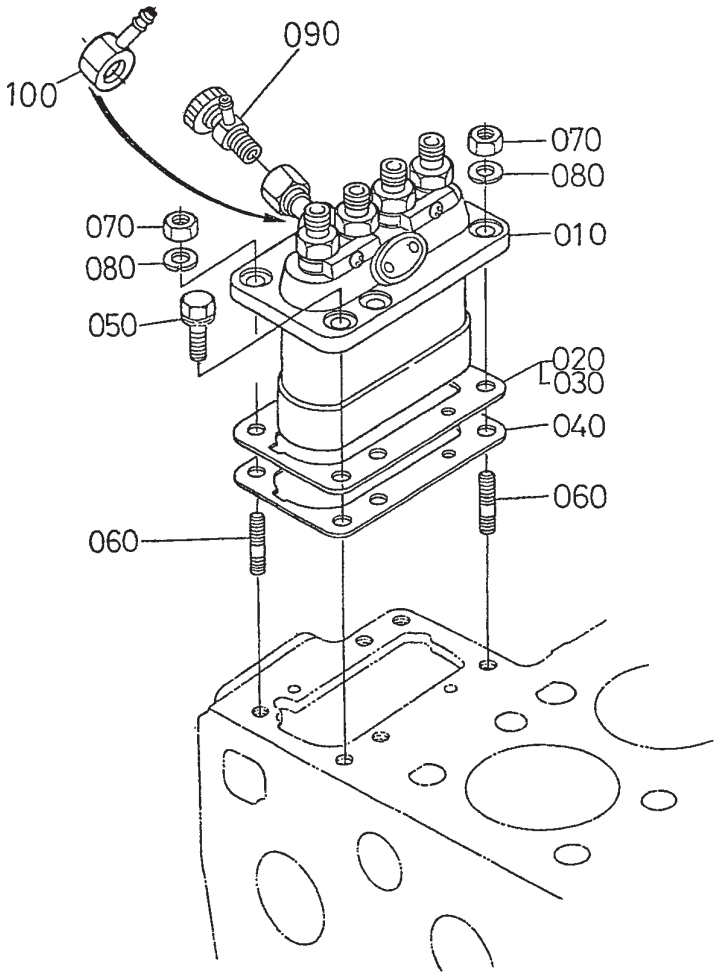


Sheet No.:54

Engine Stop Lever Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7591	1	I/D Appartus ASM
020	98–7592	1	Adjusting Bolt ASM
030	98–7593	1	Nut
040	98–7594	1	Nut–Cap
050	98–7428	2	Gasket
060	98–7596	1	Cap
070	100–9198	1	Eng Stop Lever ASM
080	98–7598	1	Cover–Pump, Injection
090	100–9200	1	Shaft–Lever
100	98–7600	1	Lever–Stop, Engine
110	98–7601	1	Seal–Oil
120	98–7602	1	Pin–Spring
130	98–7603	1	Spring–Return
140	98–7604	1	Gasket–Cover, Pump
150	98–7605	4	Bolt

Ref. No.	Part No.	Qty.	Description

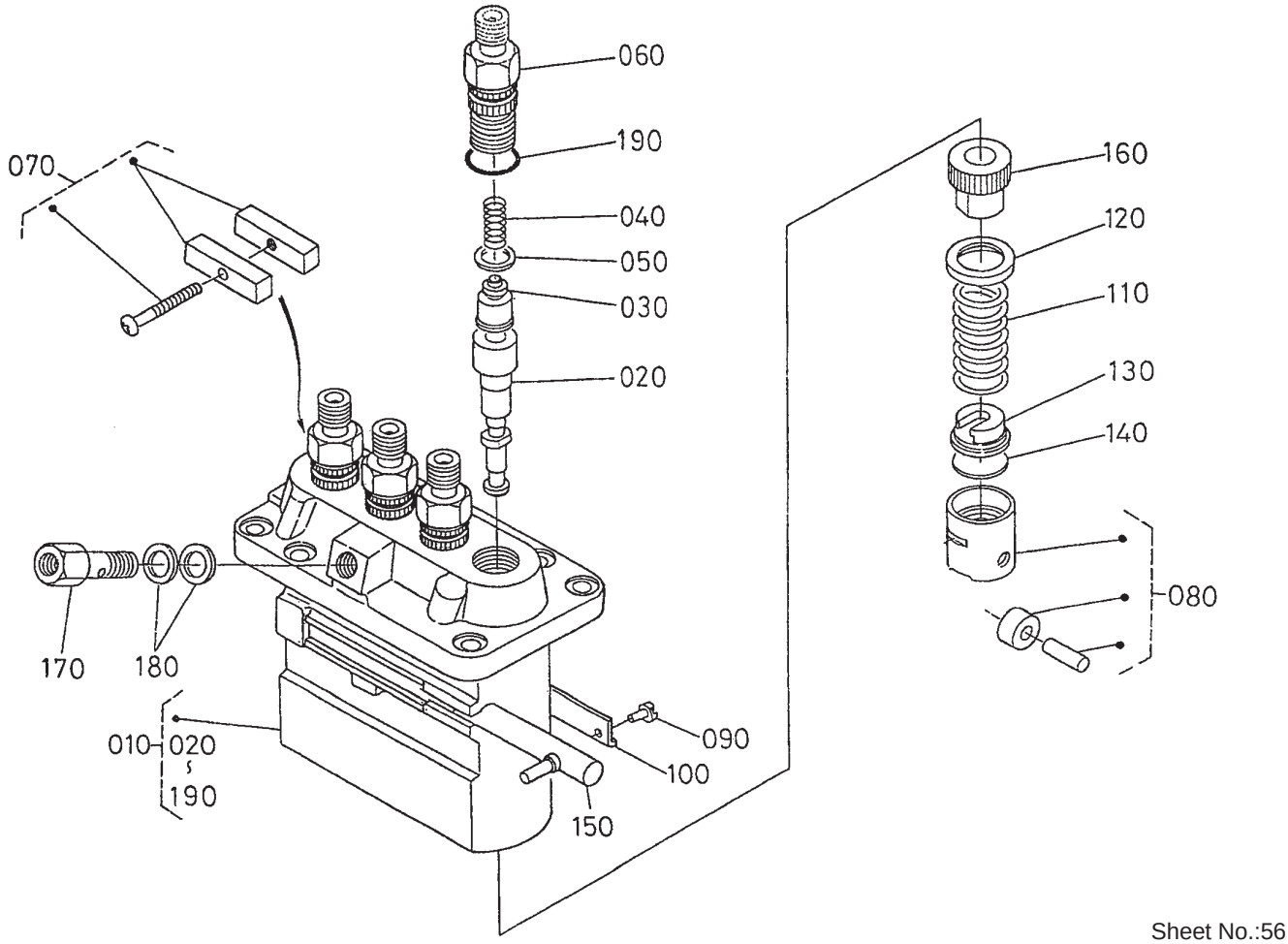


Sheet No.:55

Injection Pump Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9201	1	Injection Pump ASM
020	98–7607	1	Shim
030	98–7608	1	Shim
040	98–7609	1	Shim–Pump, Injection
050	98–7610	4	Bolt
060	100–1558	2	Stud–Manifold, Exhaust
070	98–7534	2	Nut
080	99–8339	2	Washer–Spring
090	100–9202	1	Jet Start Cock ASM
100	98–7617	1	Joint

Ref. No.	Part No.	Qty.	Description

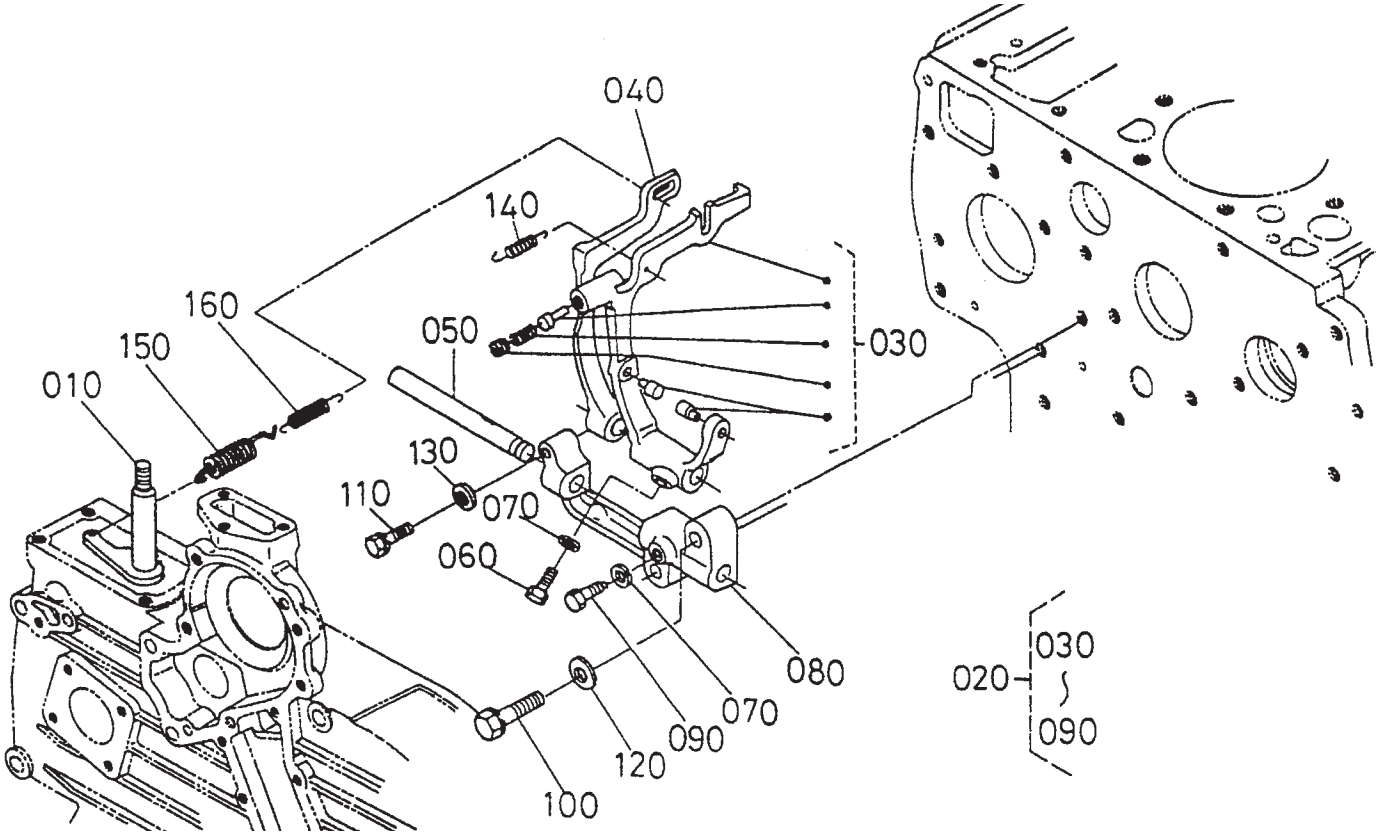


Sheet No.:56

Injection Pump Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9201	1	Injection Pump ASM
020	98–7619	4	Plunger–Pump
030	98–7620	4	Valve–Delivery
040	98–7621	4	Spring–Valve, Delivery
050	98–7622	4	Gasket–Valve, Delivery
060	98–7623	4	Holder–Valve, Delivery
070	98–7624	2	Lock Plate ASM
080	98–7625	4	Tappet ASM
090	98–7626	4	Pin–Guide, Tappet
100	98–7627	2	Plate
110	98–7628	4	Spring–Plunger
120	98–7629	4	Seat–Spring, Upper
130	98–7630	4	Seat–Spring, Lower
140	98–7631	4	Shim
150	98–7632	1	Rack–Control
160	98–7634	4	Sleeve–Control
170	98–7635	1	Screw
180	98–7636	2	Gasket
190	98–7637	4	O–Ring

Ref. No.	Part No.	Qty.	Description

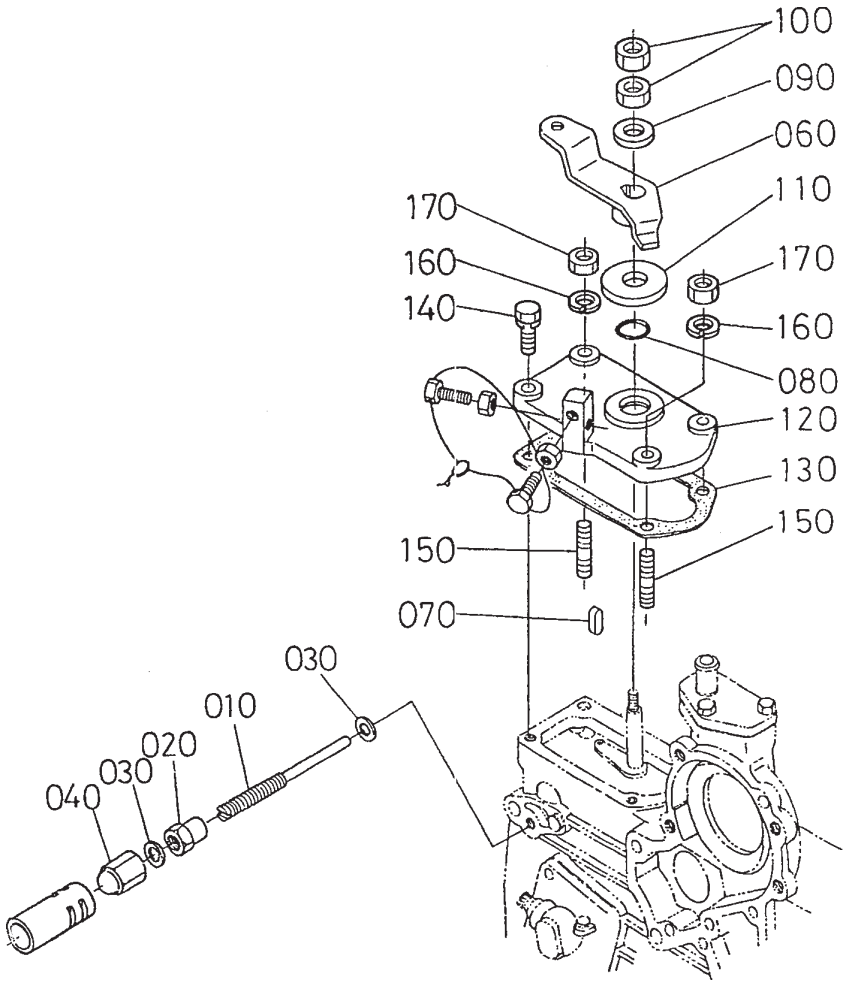


Sheet No.:57

Governor Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7638	1	Lever–Governor
020	100–9204	1	Lever–Fork
030	100–9205	1	Lever–Fork
040	100–9206	1	Lever–Fork
050	98–7640	1	Shaft–Lever, Fork
060	98–7641	1	Bolt–Shaft, Lever
070	98–7699	2	Washer–Spring
080	98–7643	1	Holder–Lever, Fork
090	98–7644	1	Bolt
100	98–7645	2	Bolt
110	98–7646	1	Bolt
120	98–7536	2	Washer–Plain
130	98–7648	1	Washer–Plain
140	100–9207	1	Spring–Start
150	100–9208	1	Spring–Governor
160	98–7651	1	Spring–Governor

Ref. No.	Part No.	Qty.	Description

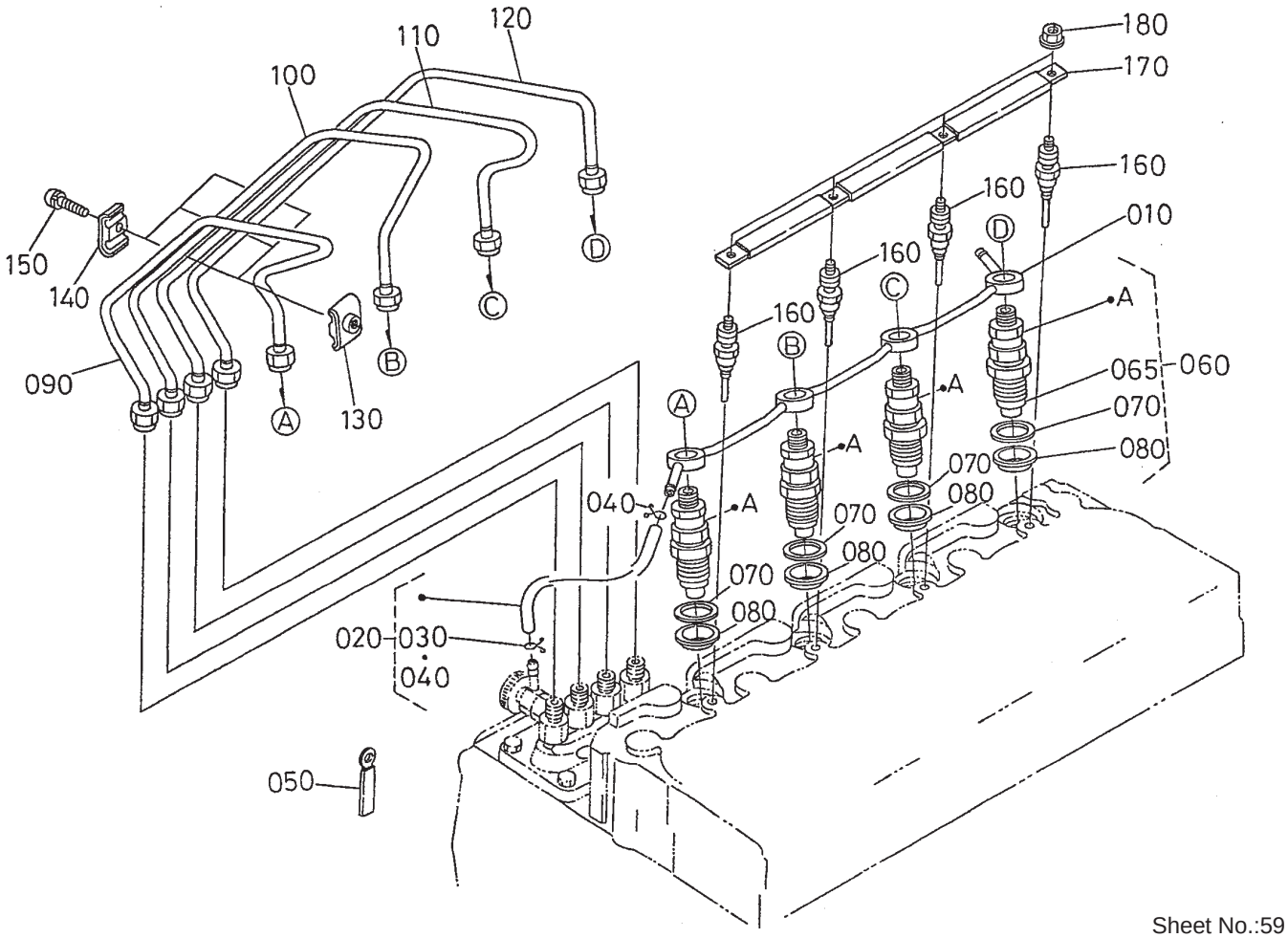


Sheet No.:58

Speed Control Plate Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7652	1	Bolt–Adjusting
020	98–7653	1	Nut
030	98–7654	2	Gasket
040	98–7655	1	Nut–Cap
060	98–7657	1	Lever–Control, Speed
070	98–7658	1	Key–Feather
080	98–7659	1	O–Ring
090	98–7698	1	Washer–Plain
100	98–7661	2	Nut
110	98–7662	1	Collar
120	98–7663	1	Plate–Control, Speed
130	98–7664	1	Gasket
140	98–7568	2	Bolt
150	98–7571	2	Stud
160	98–7699	2	Washer–Spring
170	98–7572	4	Nut

Ref. No.	Part No.	Qty.	Description

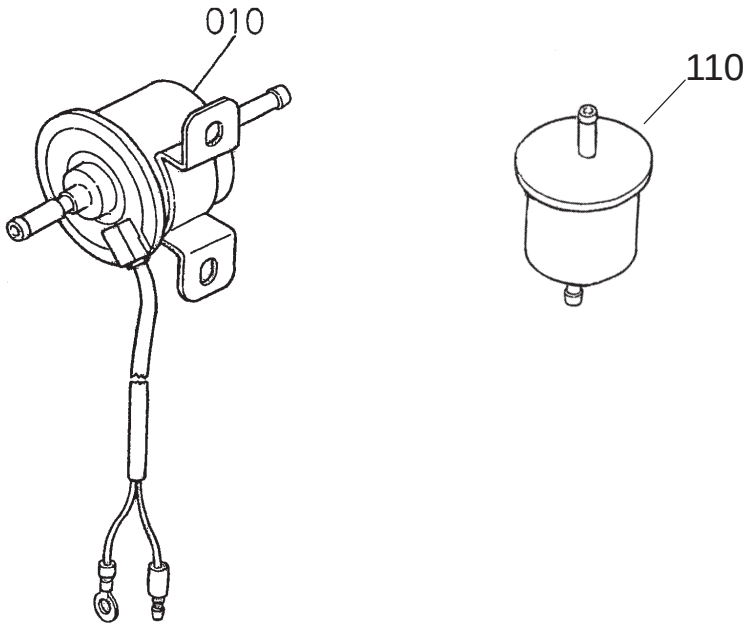


Sheet No.:59

Nozzle Holder and Glow Plug Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9213	1	Overflow Pipe ASM
020	98–7670	1	Overflow Pipe ASM
030	98–7671	1	Clip–Pipe
040	98–7672	1	Clip–Pipe
050	98–7673	1	Clamp–Cord
060	100–9214	1	Kit–Holder, Nozzle
065	100–9215	4	Piece–Nozzle
070	98–7676	4	Gasket
080	98–7677	4	Seal
090	100–9216	1	Pipe–Injection
100	100–9217	1	Pipe–Injection
110	100–9218	1	Pipe–Injection
120	100–9219	1	Pipe–Injection
130	98–7682	3	Clamp–Pipe
140	98–7683	3	Clamp–Pipe
150	98–9364	3	Screw–W/Washer
160	98–7685	4	Plug–Glow
170	98–7686	1	Cord–Plug, Glow
180	99–8377	4	Nut–Flange

Ref. No.	Part No.	Qty.	Description

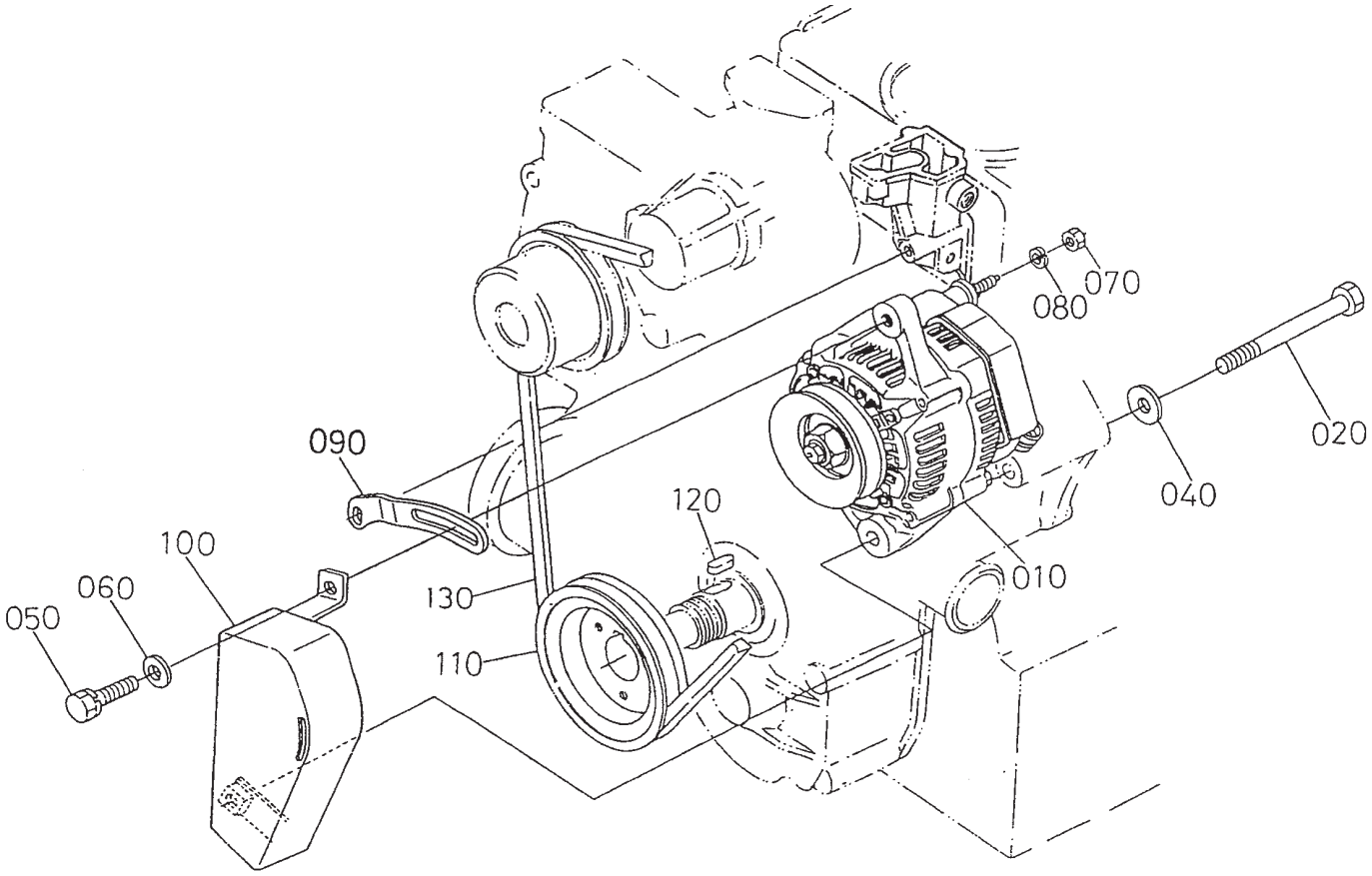


Sheet No.:60

Fuel Filter

Ref. No.	Part No.	Qty.	Description
010	104–5215	1	Pump–Fuel, Electric
110	98–7612	1	Filter–Fuel

Ref. No.	Part No.	Qty.	Description

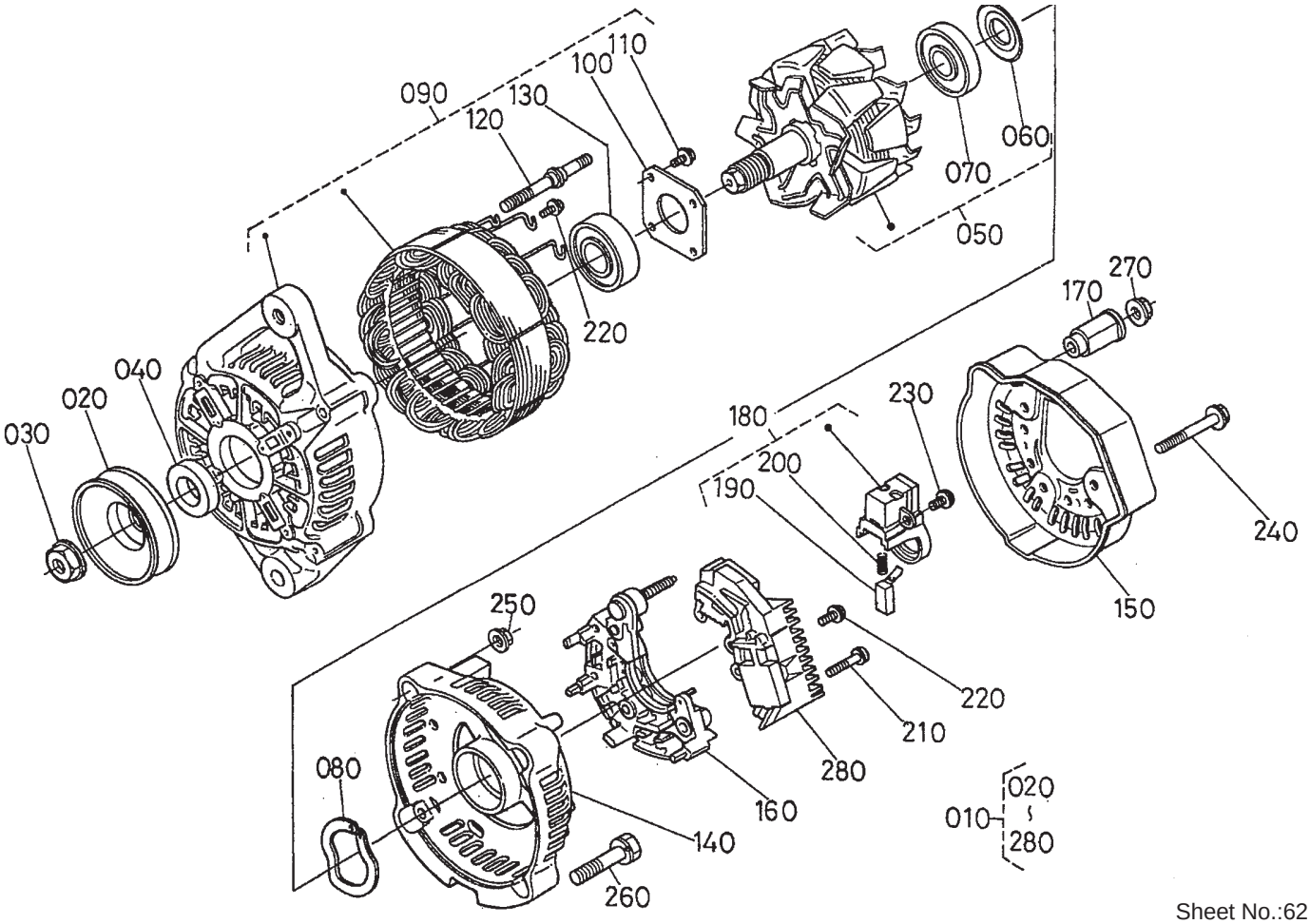


Sheet No.:61

Alternator and Pulley Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7693	1	Alternator ASM
020	98–7695	1	Bolt
040	98–9366	1	Washer–Plain
050	98–7697	1	Bolt
060	100–9233	1	Washer–Plain
070	98–7572	1	Nut
080	98–7699	1	Washer–Spring
090	105–2872	1	Bracket–Alternator
100	98–7701	1	Cover–Belt
110	105–4576	1	Pulley–Drive, Fan
120	98–7451	1	Key–Feather
130	98–7705	1	V–Belt

Ref. No.	Part No.	Qty.	Description

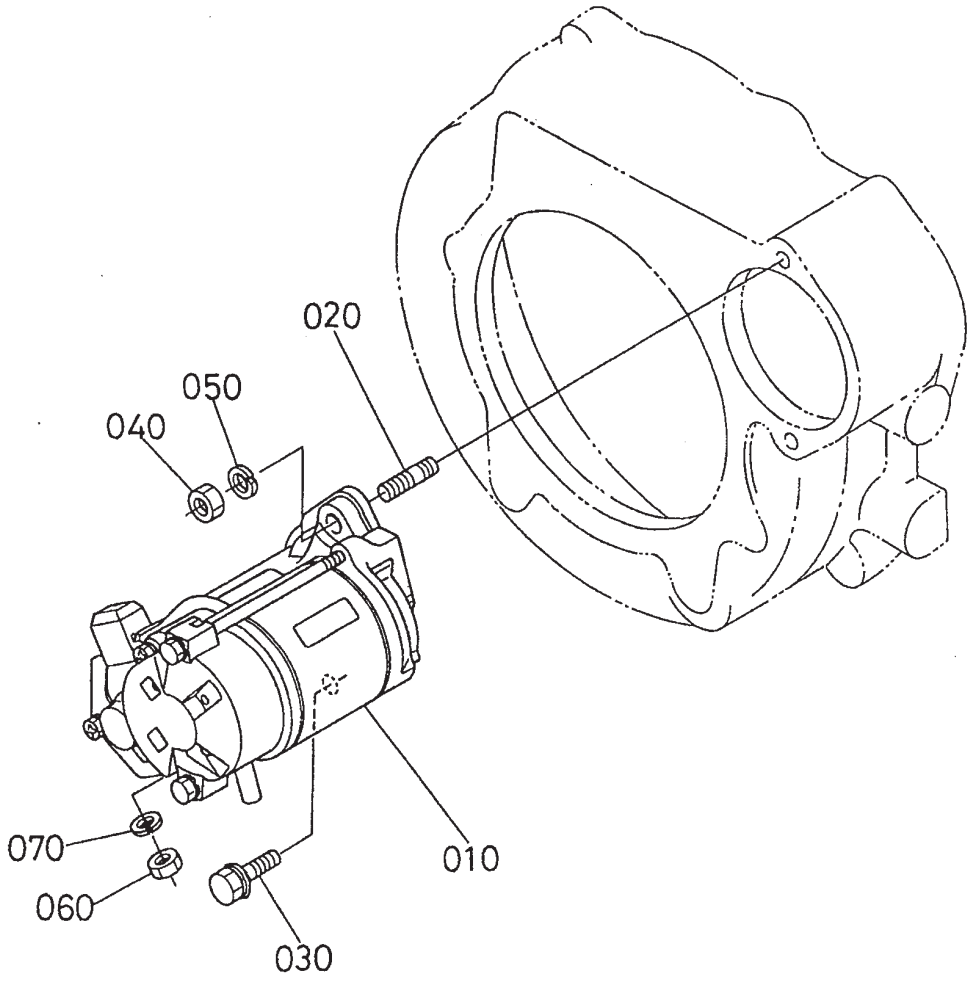


Sheet No.:62

Alternator Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7693	1	Alternator ASM
020	98–7707	1	Pulley–Alternator
030	98–7708	1	Nut
040	98–7709	1	Collar
050	98–7710	1	Rotor
060	98–7711	1	Cover–Bearing
070	98–7712	1	Bearing–Ball
080	98–7713	1	Washer–Thrust
090	98–7714	1	Frame–End, Drive
100	98–7715	1	Plate–Retainer
110	98–7716	4	Screw–Head, Round
120	98–7717	2	Bolt–Through
130	98–7718	1	Bearing–Ball
140	98–7719	1	Frame–End
150	98–7720	1	Cover–End
160	98–7721	1	Rectifier ASM
170	98–7722	1	Bushing–Insulation
180	98–7723	1	Holder–Brush
190	98–7724	2	Brush
200	98–7725	2	Spring–Brush
210	98–7726	2	Screw–Head, Round
220	98–7727	6	Screw–Head, Round
230	98–7728	1	Screw–Head, Round
240	98–7729	3	Bolt
250	98–7730	2	Nut
260	98–7731	2	Bolt

Ref. No.	Part No.	Qty.	Description
270	98–7732	1	Nut
280	98–7733	1	Regulator ASM

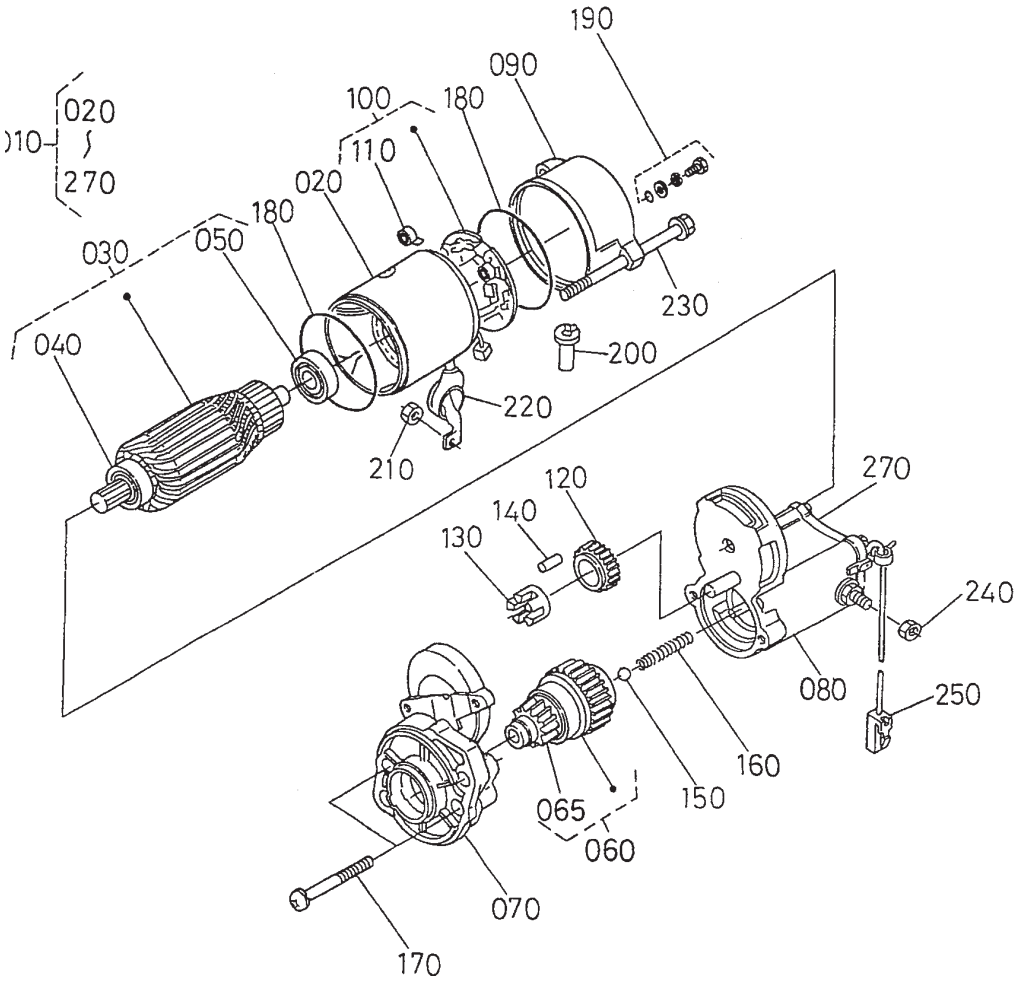


Sheet No.:63

Starter Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9237	1	Starter ASM
020	98–7735	1	Stud
030	98–7736	1	Bolt
040	98–7737	1	Nut
050	98–9368	1	Washer–Spring
060	98–7739	1	Nut
070	99–8339	1	Washer–Spring

Ref. No.	Part No.	Qty.	Description

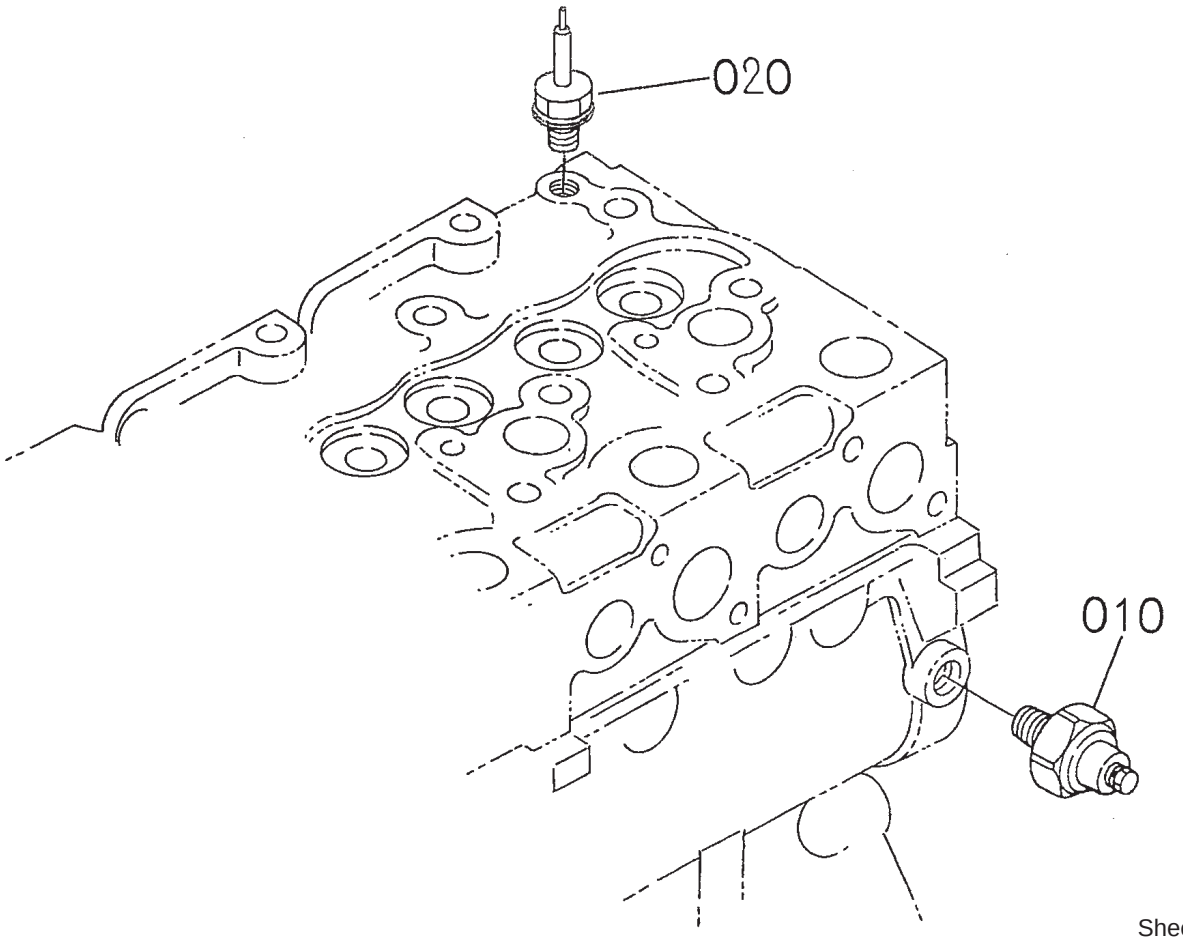


Sheet No.:64

Starter Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9237	1	Starter ASM
020	104–8608	1	Yoke ASM
030	98–7742	1	Armature ASM
040	98–7744	1	Bearing
050	98–7743	1	Bearing
060	98–7745	1	Clutch–Running, Over
065	105–2887	1	Pinion–Bevel
070	98–7746	1	Frame–End, Drive
080	100–9239	1	Magentic Switch ASM
090	98–7748	1	Frame–End
100	98–7749	1	Brush Holder ASM
110	98–7750	4	Spring–Brush
120	98–7751	1	Gear
130	98–7752	1	Retainer
140	98–7753	5	Roller
150	98–7755	1	Ball
160	98–7754	1	Spring
170	98–7756	2	Bolt
180	98–7757	2	O–Ring
190	98–7758	2	Bolt ASM
200	98–7759	1	Pipe–Drain
210	105–2873	1	Nut
220	99–8375	1	Cover
230	100–9240	2	Bolt
240	99–8376	1	Nut–Hex

Ref. No.	Part No.	Qty.	Description
250	98–9711	1	Cord–Solenoid, Stop
270	105–2886	1	Cover ASM

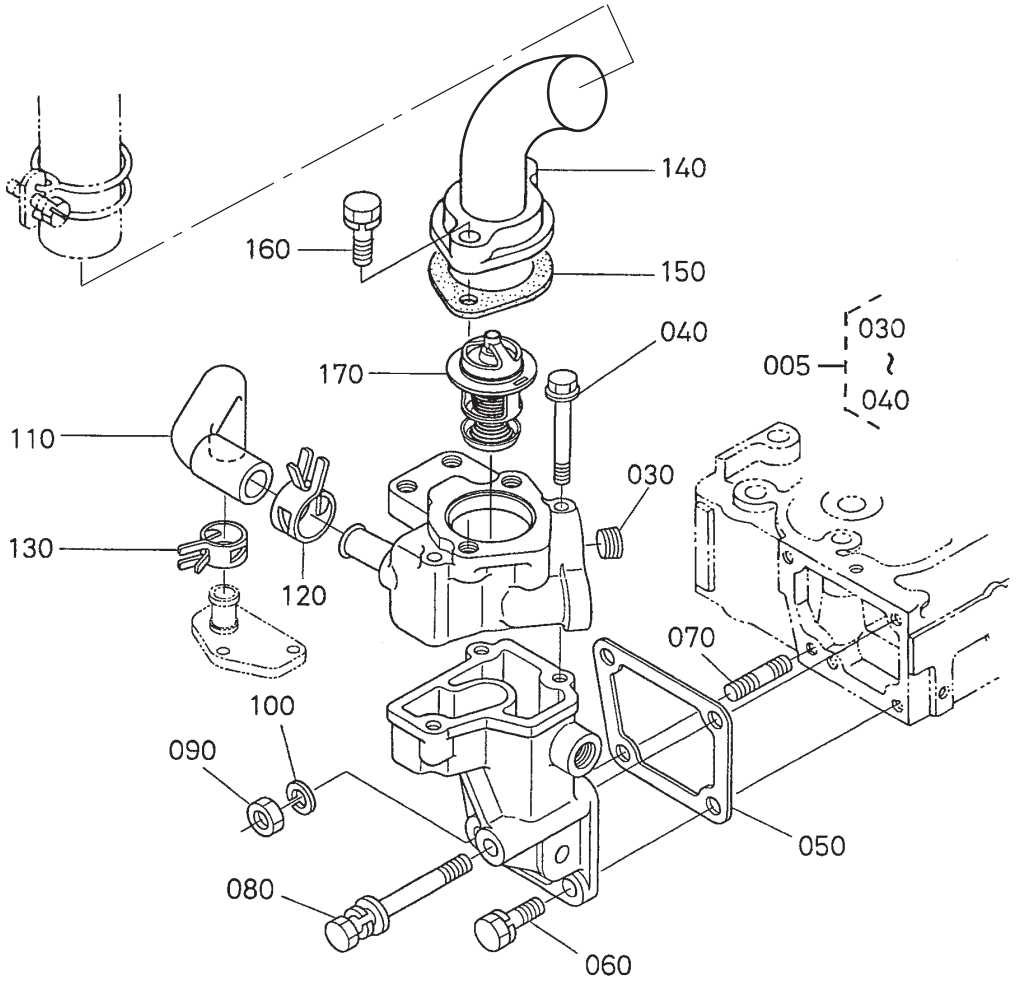


Sheet No.:65

Oil Switch / Thermometer and Plug Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7764	1	Switch–Oil
020	99–3582	1	Thermoswitch

Ref. No.	Part No.	Qty.	Description

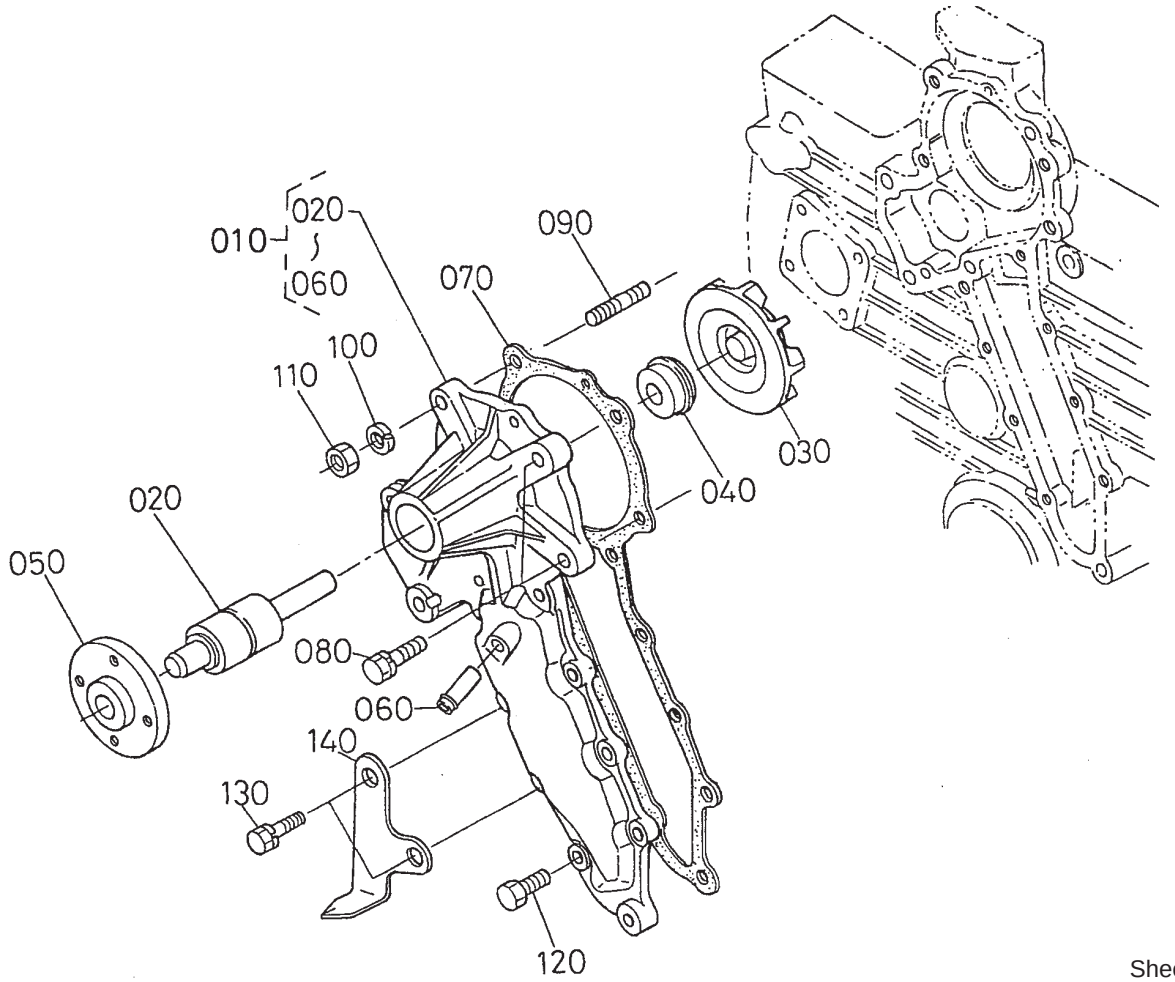


Sheet No.:66

Water Flange and Thermostat Assembly

Ref. No.	Part No.	Qty.	Description
005	105–4578	1	Water Flange ASM
030	105–2874	2	Plug
040	105–2875	3	Bolt–Flange
050	105–2876	1	Gasket–Flange, Water
060	98–7610	2	Bolt
070	100–1558	1	Stud–Manifold, Exhaust
080	105–2877	1	Bolt
090	98–7534	1	Nut
100	99–8339	1	Washer–Spring
110	105–2878	1	Pipe–Return, Water
120	98–9714	1	Clamp–Hose
130	105–2879	1	Clamp–Hose
140	100–9244	1	Cover–Thermostat
150	105–2880	1	Gasket–Cover, Thermostat
160	98–7777	2	Bolt
170	105–2881	1	Thermostat ASM

Ref. No.	Part No.	Qty.	Description

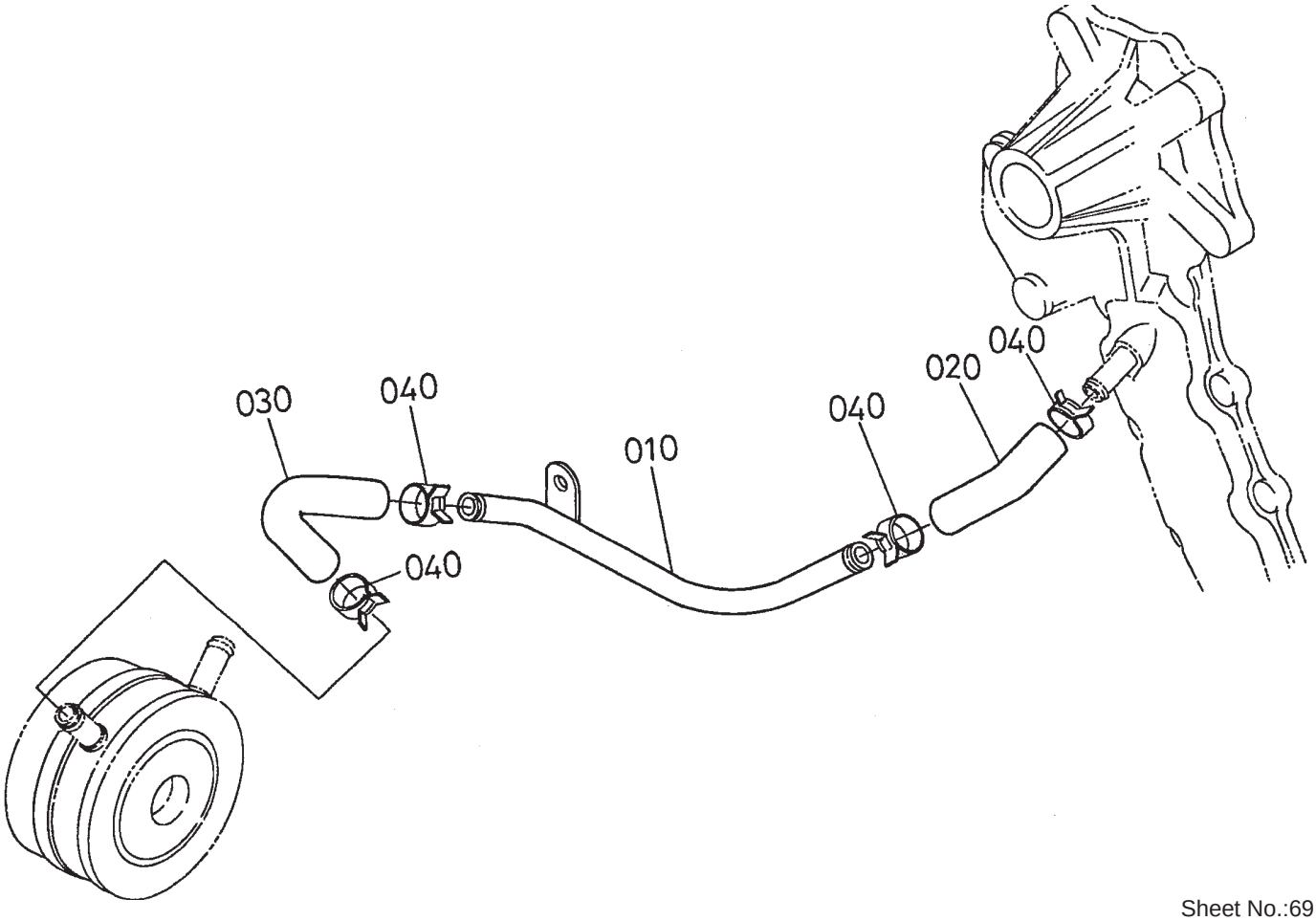


Sheet No.:68

Water Pump Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9245	1	Water Pump ASM
020	98–7780	1	Bearing–Ball
030	98–7781	1	Impeller–Pump, Water
040	105–2882	1	Mechanical Seal ASM
050	98–7783	1	Flange–Pump, Water
060	98–9577	1	Pipe–Return, Water
070	98–7784	1	Gasket–Pump, Water
080	98–7439	2	Bolt
090	98–7786	2	Stud
100	99–8339	2	Washer–Spring
110	98–7534	2	Nut
120	98–7605	6	Bolt
130	98–7568	2	Bolt
140	100–9246	1	Indicator–Timing

Ref. No.	Part No.	Qty.	Description

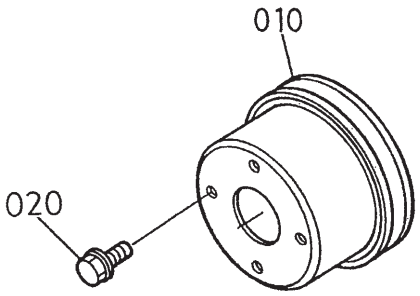


Sheet No.:69

Water Pipe Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9278	1	Pipe–Water
020	100–9279	1	Pipe–Water
030	100–9280	1	Pipe–Cooler, Oil
040	98–9579	4	Band–Pipe

Ref. No.	Part No.	Qty.	Description

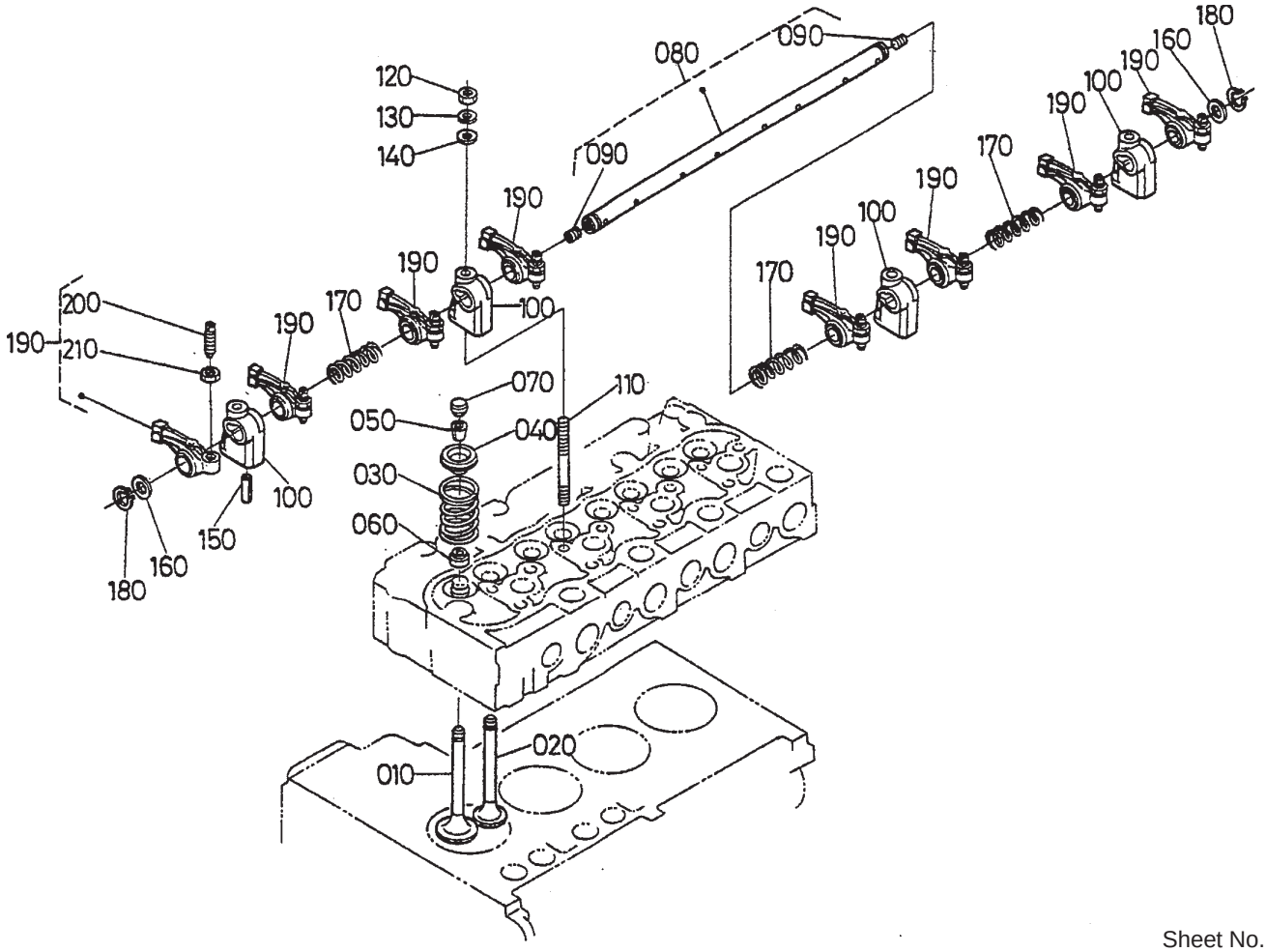


Sheet No.:70

Fan Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7702	1	Pulley–Fan
020	99–8363	4	Bolt–Flange

Ref. No.	Part No.	Qty.	Description

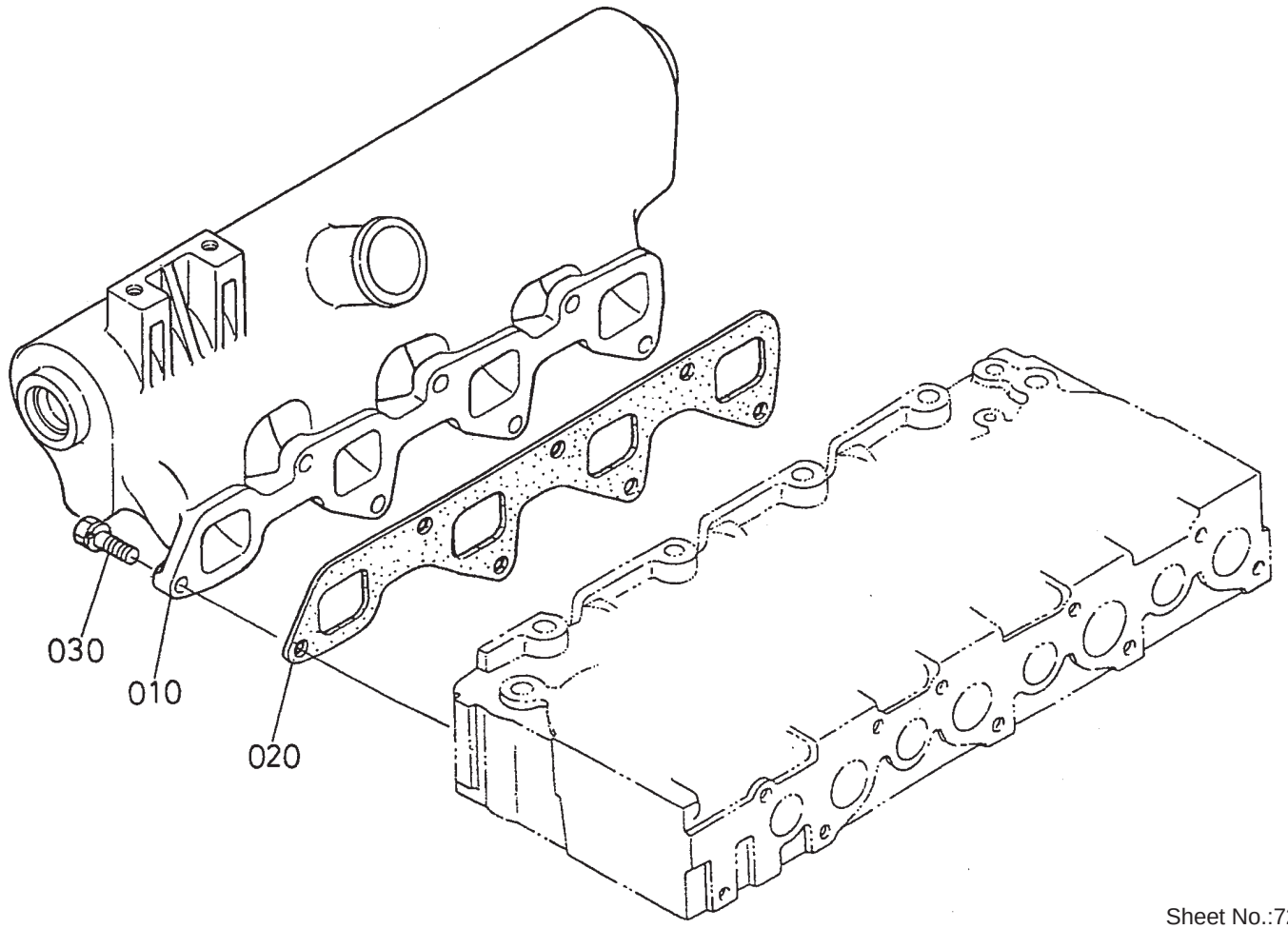


Sheet No.:71

Valve and Rocker Arm Assembly

Ref. No.	Part No.	Qty.	Description
010	98–7791	4	Valve–Inlet
020	100–9281	4	Valve–Exhaust
030	98–7793	8	Spring–Valve
040	98–7794	8	Retainer–Spring, Valve
050	98–7795	8	Collet–Spring, Valve
060	98–7796	8	Seal–Stem, Valve
070	98–7797	8	Cap–Valve
080	98–7798	1	Rocker Arm Shaft ASM
090	98–7799	2	Screw–Set
100	98–7800	4	Bracket–Arm, Rocker
110	98–7801	4	Stud
120	98–7534	4	Nut
130	99–8339	4	Washer–Spring
140	98–7535	4	Washer–Spring
150	98–7805	1	Pin–Spring
160	98–7806	2	Washer
170	98–7807	3	Spring–Arm, Rocker
180	98–7808	2	Clip–Cir., External
190	98–7809	8	Rocker Arm ASM
200	98–7810	8	Screw–Adjusting
210	98–7811	8	Nut

Ref. No.	Part No.	Qty.	Description

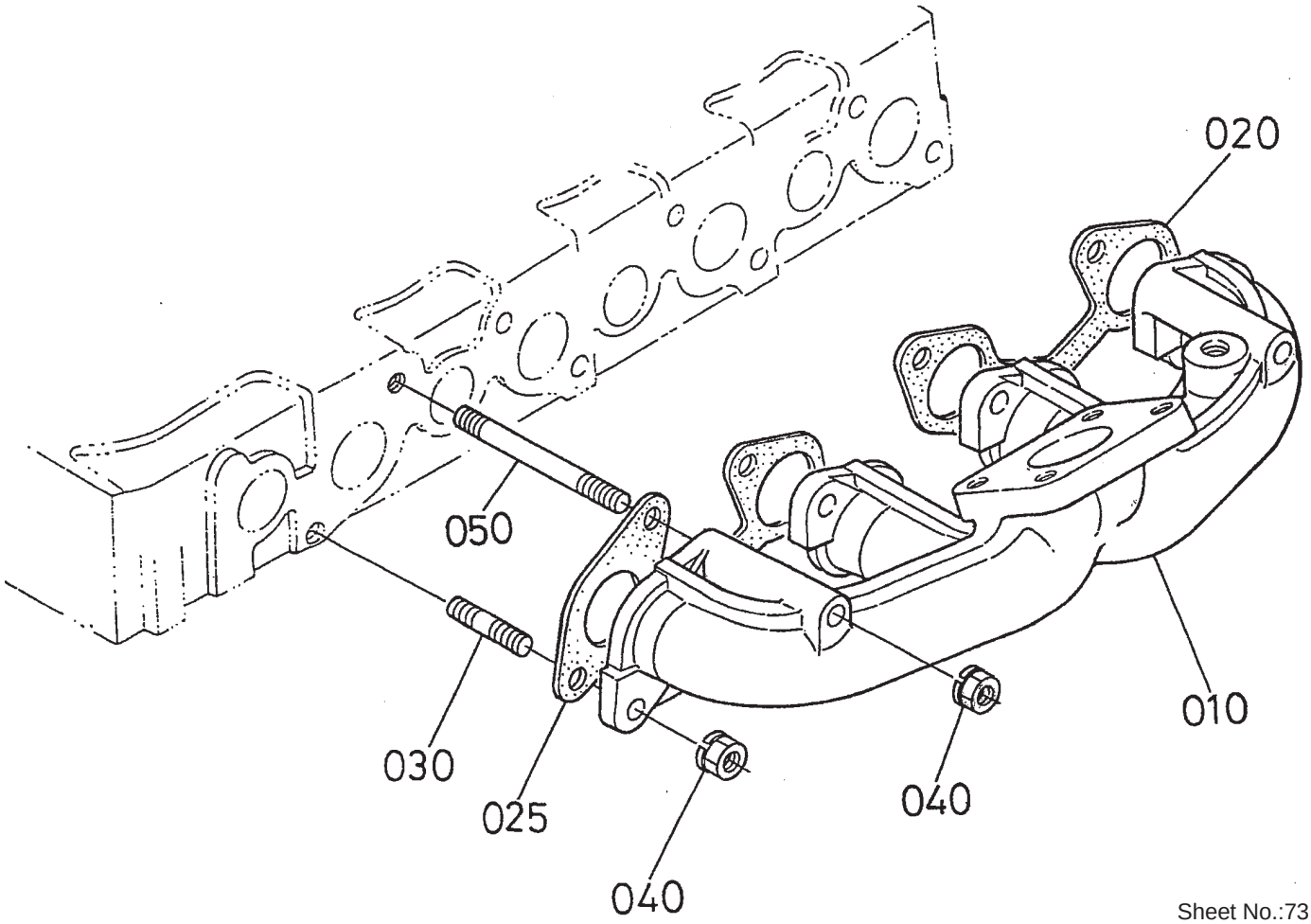


Sheet No.:72

Inlet Manifold Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9283	1	Inlet–Manifold
020	100–9284	1	Gasket–In Manifold
030	98–7610	7	Bolt

Ref. No.	Part No.	Qty.	Description

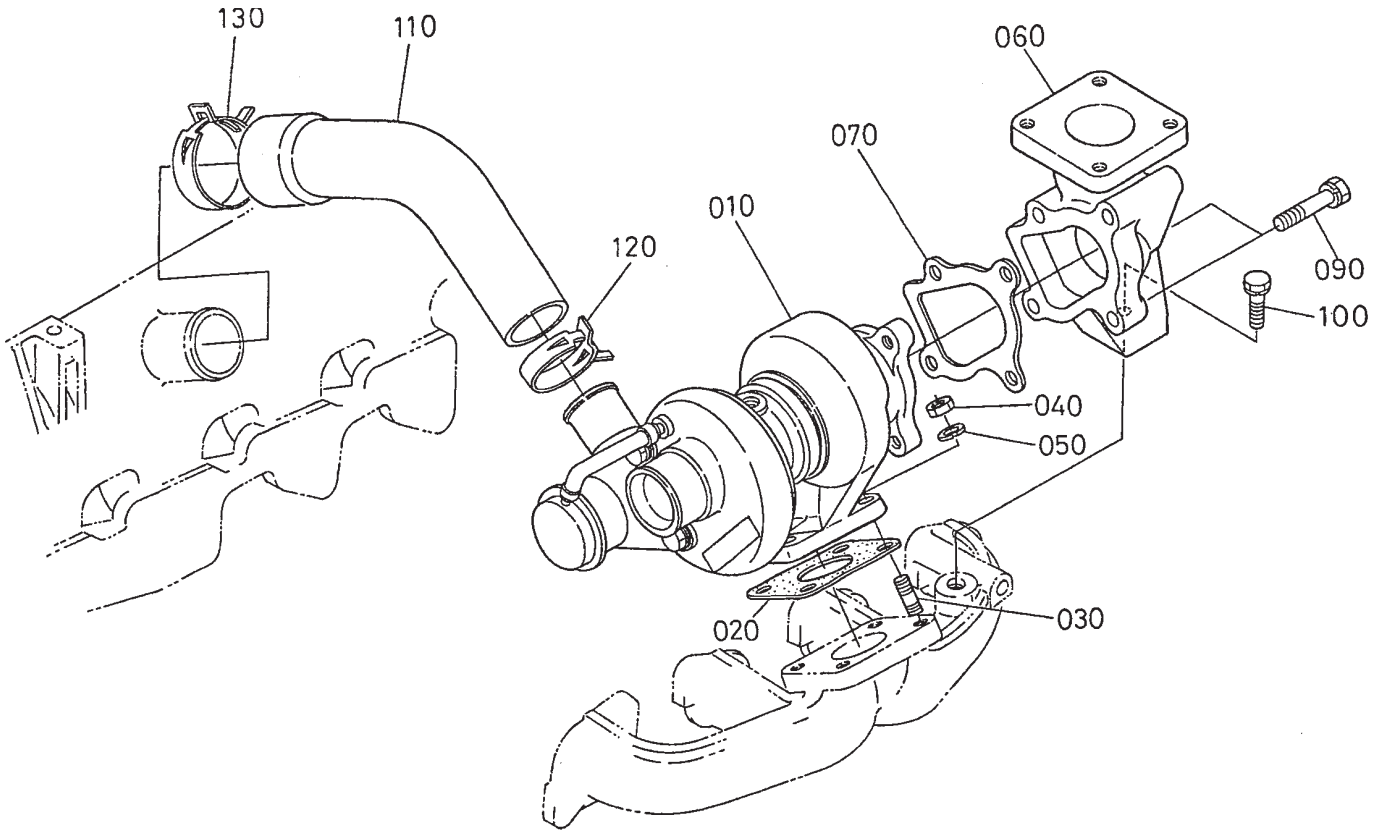


Sheet No.:73

Exhaust Manifold Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9285	1	Manifold–Exhaust
020	98–7802	1	Gasket
025	98–7803	1	Gasket
030	98–7533	6	Stud
040	100–9288	8	Nut
050	100–9289	2	Stud

Ref. No.	Part No.	Qty.	Description

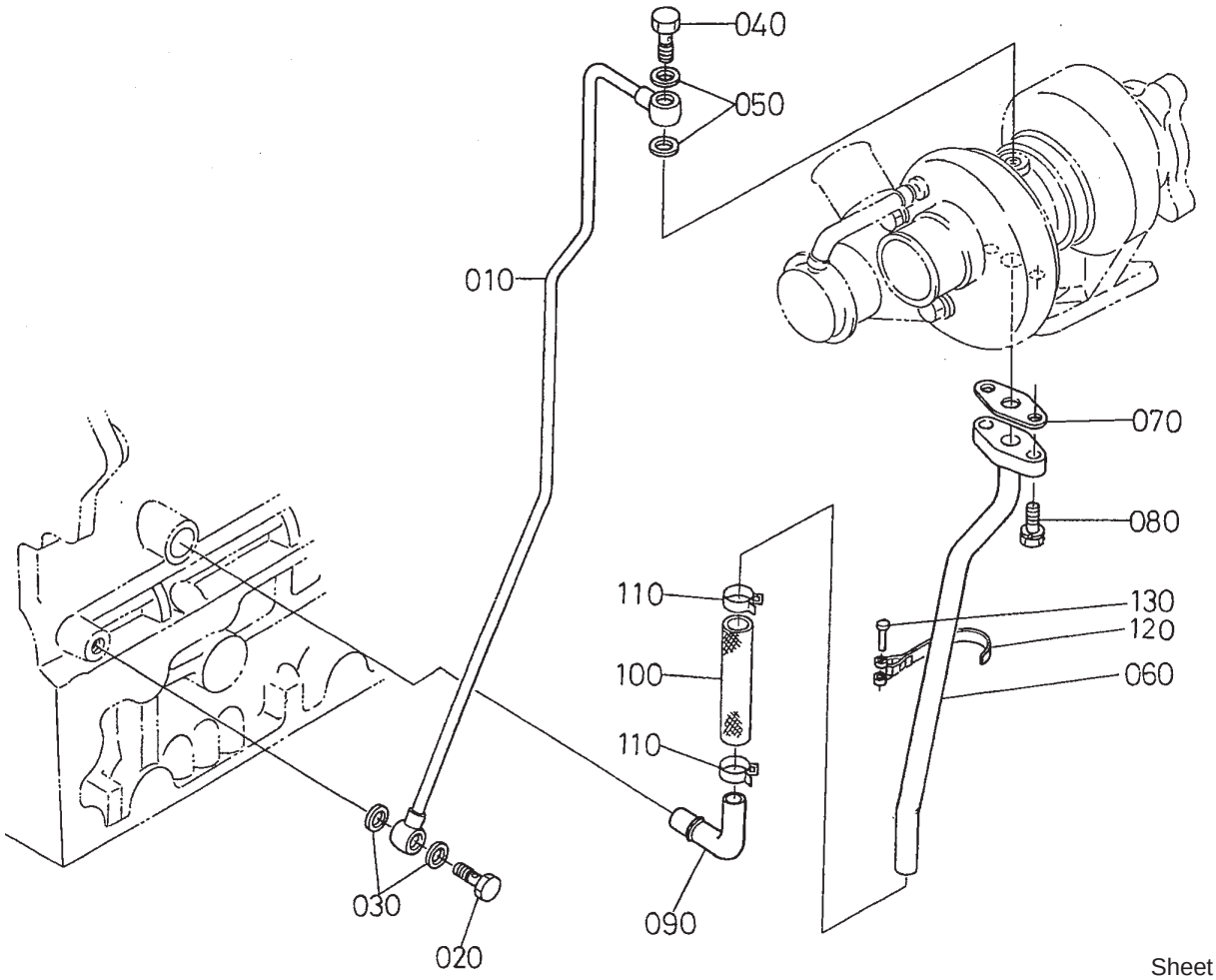


Sheet No.:74

Turbo Charger Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9313	1	Turbo Changer ASM
020	100–9314	1	Gasket
030	99–8341	4	Stud
040	98–7534	4	Nut
050	99–8339	4	Washer–Spring
060	100–9315	1	Flange–Muffler
070	100–9316	1	Gasket
090	98–7697	4	Bolt
100	100–9230	1	Bolt
110	100–9318	1	Hose–Inlet
120	100–9319	1	Band–Pipe
130	99–8322	1	Band–Pipe

Ref. No.	Part No.	Qty.	Description

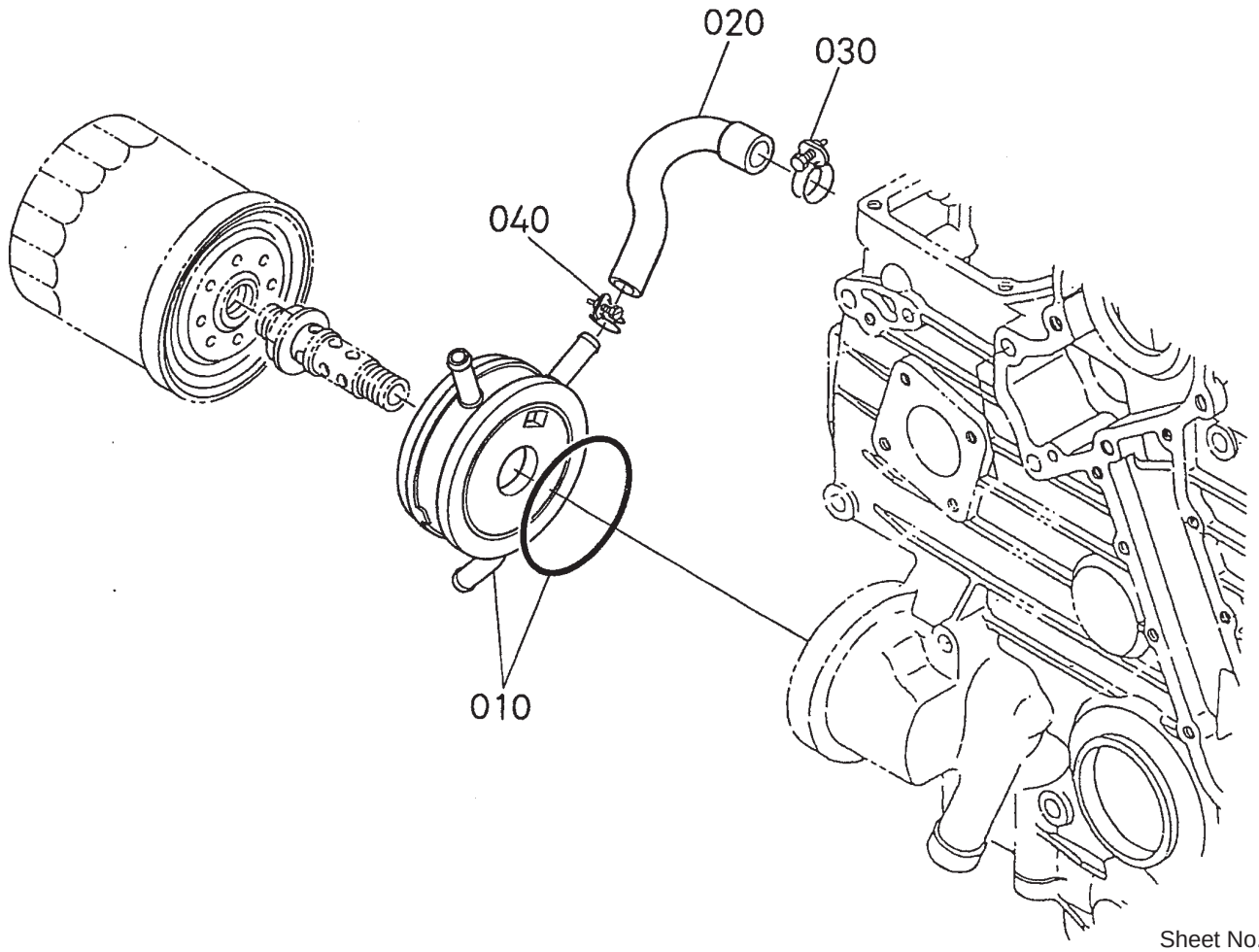


Sheet No.:75

Oil Pipe (Turbo Charger) Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9320	1	Pipe–Oil
020	100–9321	1	Bolt–Joint, Eye
030	98–7428	2	Gasket
040	98–9418	1	Bolt–Joint, Eye
050	99–8346	2	Gasket
060	100–9322	1	Pipe–Oil
070	98–9435	1	Gasket–Oil Return, Turbo
080	98–7568	2	Bolt
090	100–9323	1	Pipe–Oil
100	98–9721	1	Pipe–Oil
110	98–9714	2	Clamp–Hose
120	100–9324	1	Clamp–Pipe
130	98–9591	1	Pin–Band

Ref. No.	Part No.	Qty.	Description

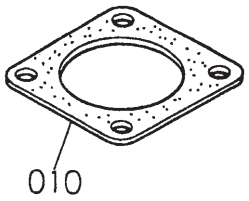


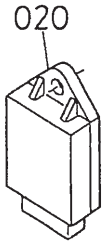
Sheet No.:76

Oil Cooler Assembly

Ref. No.	Part No.	Qty.	Description
010	100–9325	1	Oil Cooler ASM
020	100–9326	1	Hose–Cooler, Oil
030	98–7774	1	Band–Pipe
040	100–9327	1	Band–Pipe

Ref. No.	Part No.	Qty.	Description



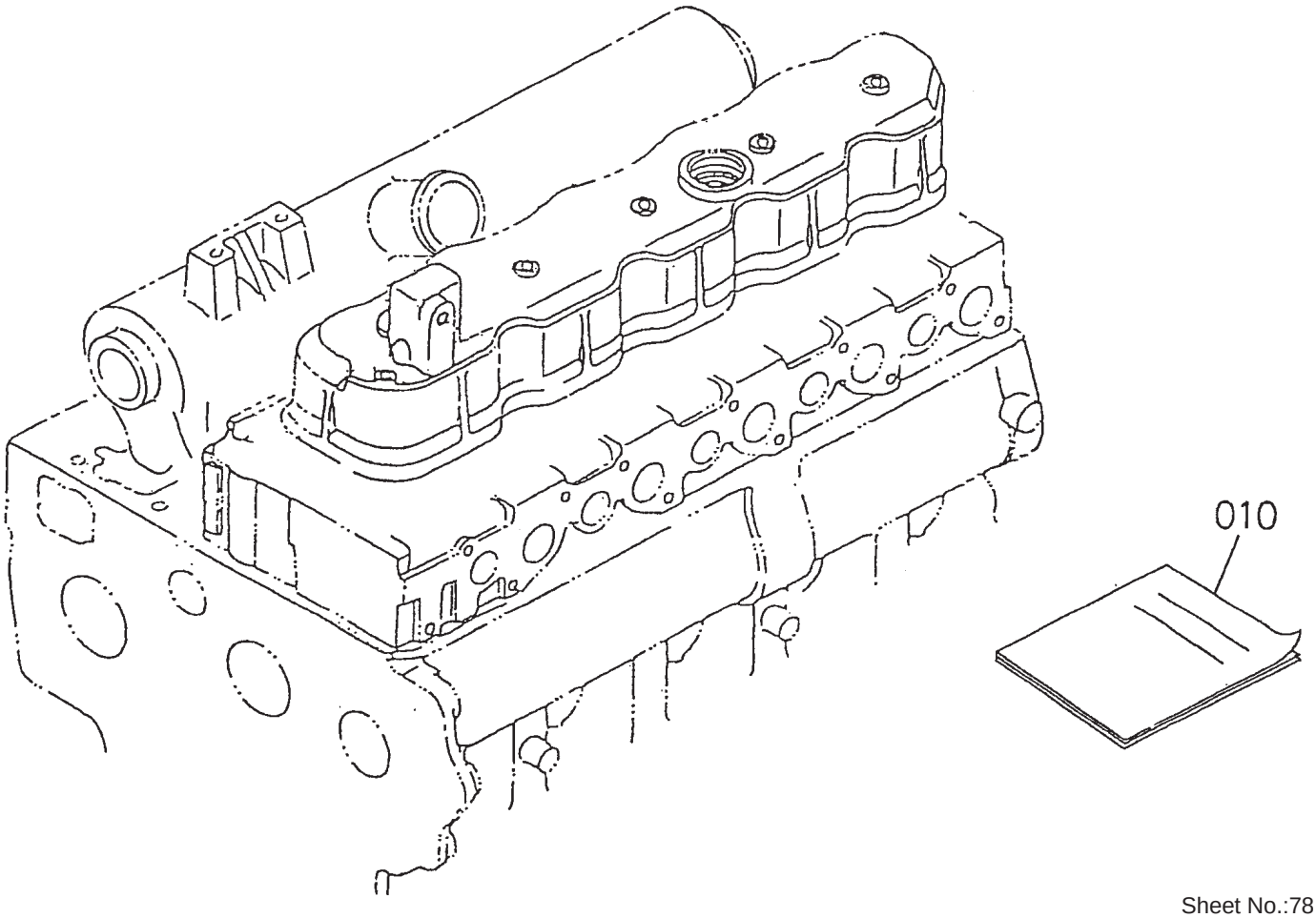


Sheet No.:77

Muffler Gasket and Glow Controller

Ref. No.	Part No.	Qty.	Description
010	100–9333	1	Gasket–Muffler
020	98–7611	1	Controller–Glow

Ref. No.	Part No.	Qty.	Description

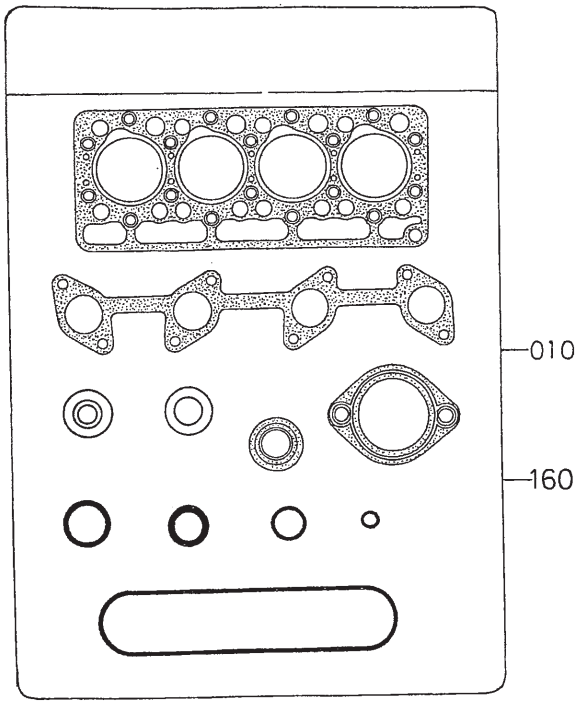


Sheet No.:78

Operators Manual

Ref. No.	Part No.	Qty.	Description
010	100–9335	1	Manual–Instruction

Ref. No.	Part No.	Qty.	Description



Sheet No.:79

Gasket Kit

Ref. No.	Part No.	Qty.	Description
010	100–9337	1	Kit–Gasket, Upper
160	98–7888	1	Kit–Gasket, Lower

Ref. No.	Part No.	Qty.	Description

Maintenance Record

Date								

Maintenance Record

Date								

Maintenance Record

Date								


TORO®