Form No. 3329-977

Groundsmaster® 4100–D

Traction Unit

Model No. 30411—230000201 and Up

Parts Catalog

Ordering Replacement Parts

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

Understanding Reference Numbers

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

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

Service Assembly Reference Numbers

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

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

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

Reference Numbers Indicating Quantity

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

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

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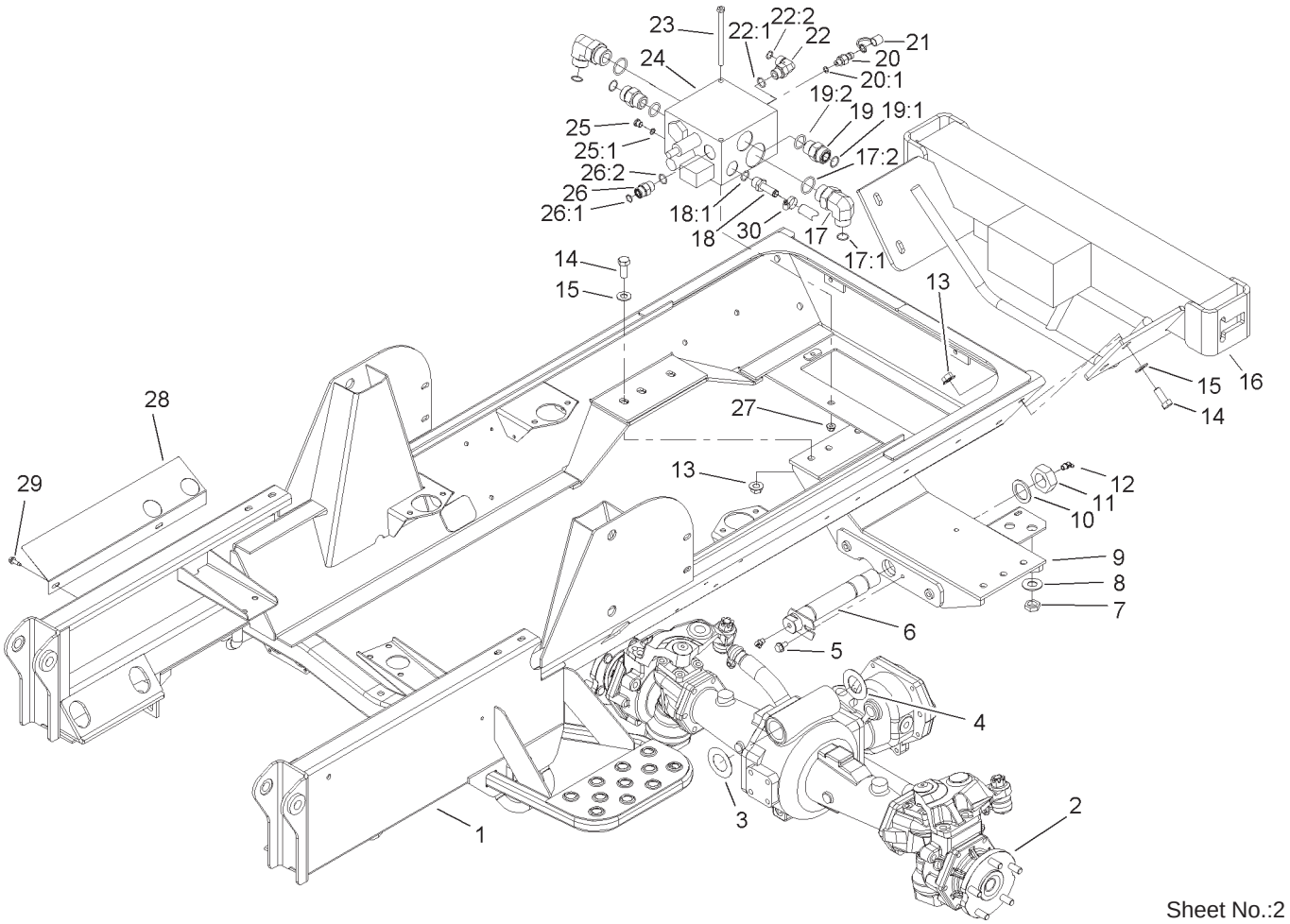
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Part Description Abbreviations

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

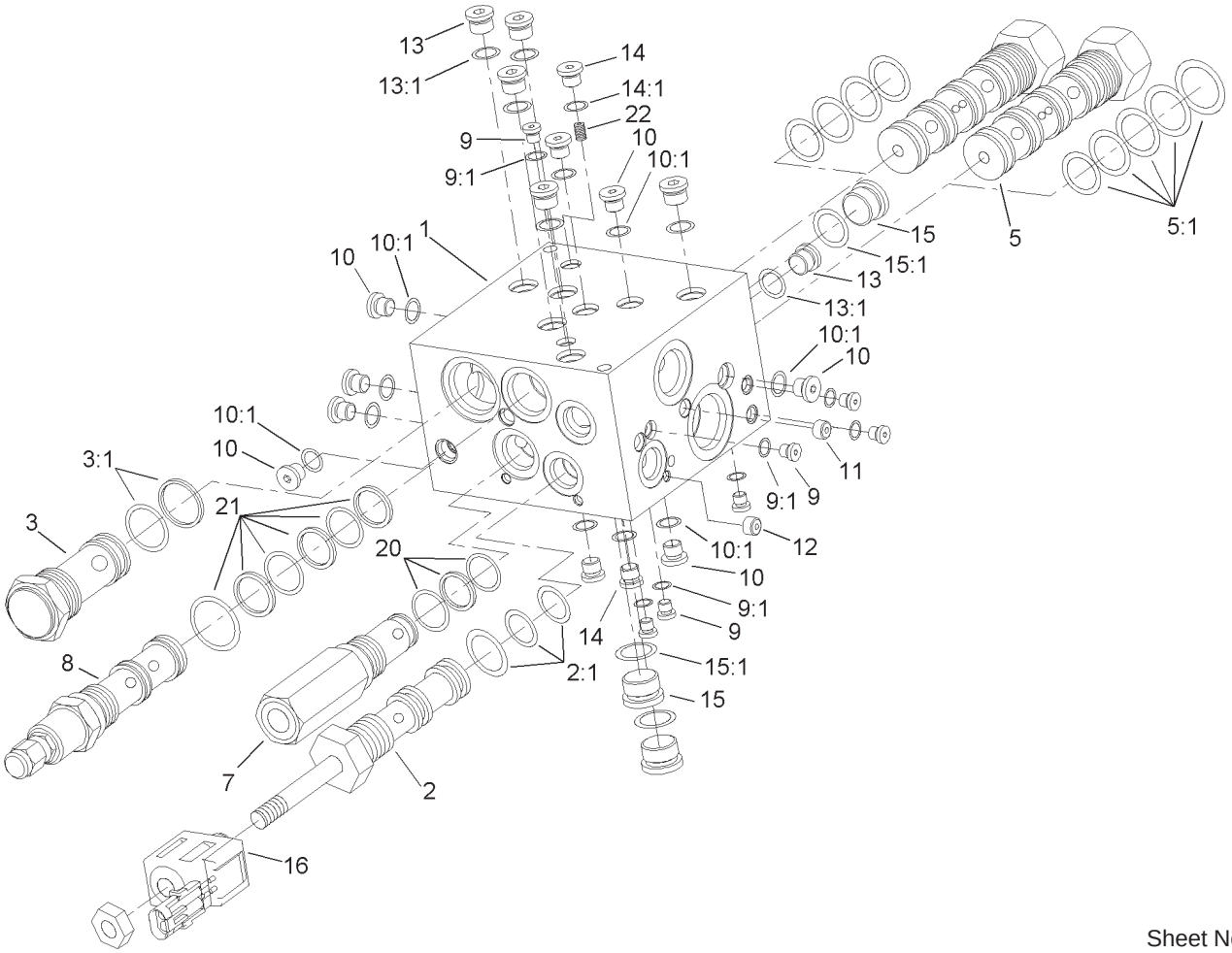


Sheet No.:2

Frame and Bumper Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7310–03	1	Frame ASM
2	100–3784	1	Drive Axle ASM
3	99–8431	1	Washer–Thrust
4	99–8432	1	Washer–Thrust
5	32144–14	1	Screw–HWH
6	98–7077	1	Pin–Axle, Rear
7	340–70	2	Nut–Lock
8	69–8940	2	Washer
9	106–4265–03	1	Rear Mount ASM
10	92–1765	1	Washer–Thrust
11	3296–68	1	Nut–Lock, NI
12	302–33	2	Fitting–Grease
13	32128–23	10	Nut–HF
14	325–5	10	Screw–HH
15	3256–26	10	Washer–Flat
16	106–4278–03	1	Bumper ASM
17	340–15	2	Fitting–HYD, 90°
17:1	237–58	1	O–Ring
17:2	237–146	1	O–Ring
18	354–121	1	Fitting–HYD, Straight
18:1	237–79	1	O–Ring
19	340–9	2	Fitting–HYD, Straight
19:1	237–58	1	O–Ring
19:2	237–81	1	O–Ring
20	354–77	1	Fitting–Quick
20:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description
21	354–79	1	Cap–Dust
22	340–98	1	Fitting–HYD, 90°
22:1	237–79	1	O–Ring
22:2	237–30	1	O–Ring
23	322–29	2	Screw–HH
24	100–3054	1	Manifold ASM
25	353–990	1	Plug
25:1	237–78	1	O–Ring
26	340–4	1	Fitting–HYD, Sraight
26:1	237–30	1	O–Ring
26:2	237–79	1	O–Ring
27	104–8300	2	Nut–Flange, NI
28	104–3562–03	1	Shield–Splash
29	32104–95	2	Screw–HWH
30	2412–36	1	Clamp–Hose



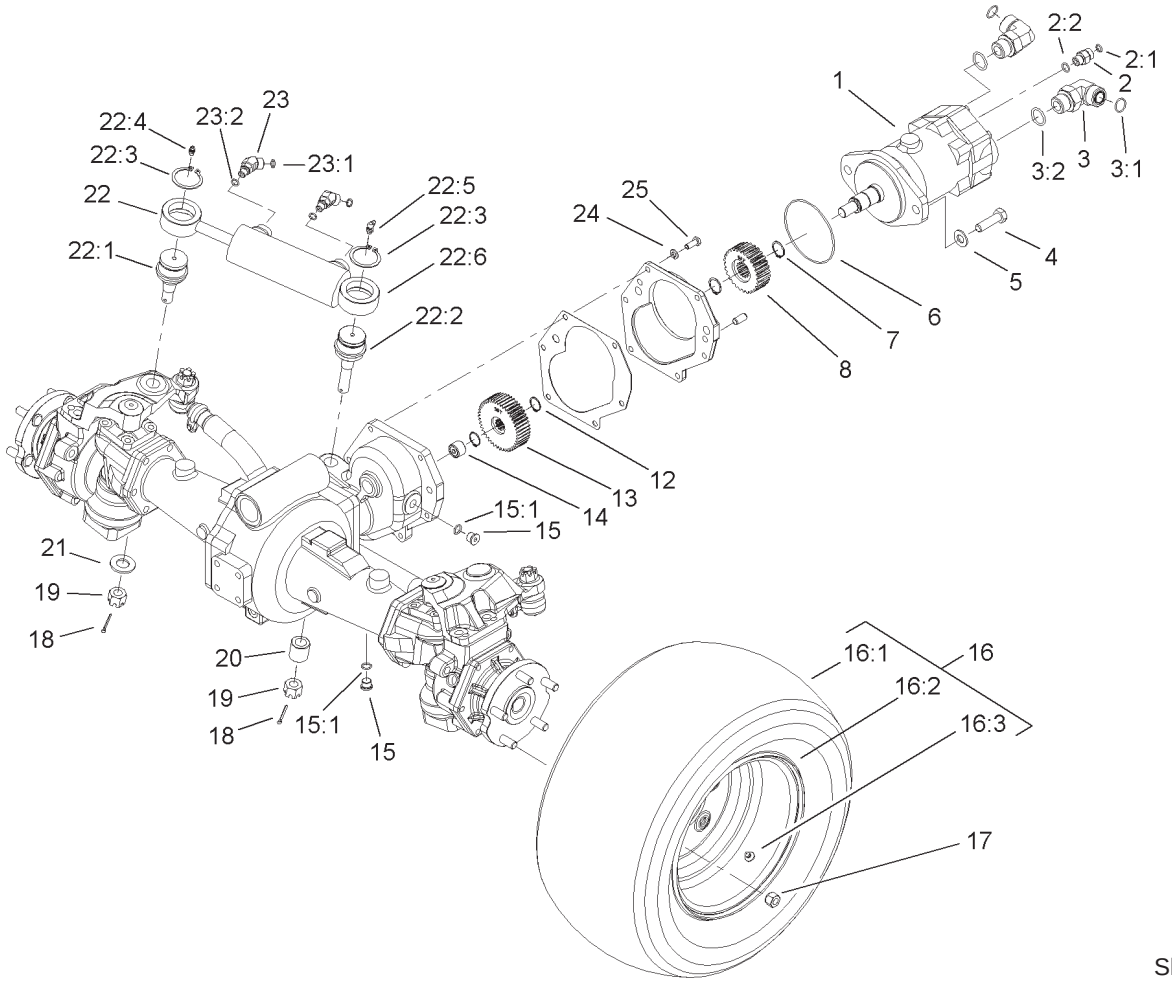
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4 Wheel Drive Manifold Assembly No. 100–3054

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	99–5508	1	Valve–Relief
8	99–5509	1	Valve–Reducing
9	353–991	7	Plug–Hex, Hollow
9:1	237–156	1	O–Ring
10	354–137	8	Plug
10:1	237–86	1	O–Ring
☆11		5	Plug–Expander
☆12		5	Plug–Expander
13	353–989	6	Plug–Hex, Hollow
13:1	237–42	1	O–Ring
14	353–990	3	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
20	99–5503	1	Seal Kit
21	104–4266	1	Seal Kit
22	106–6766	1	Plug–Orifice

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



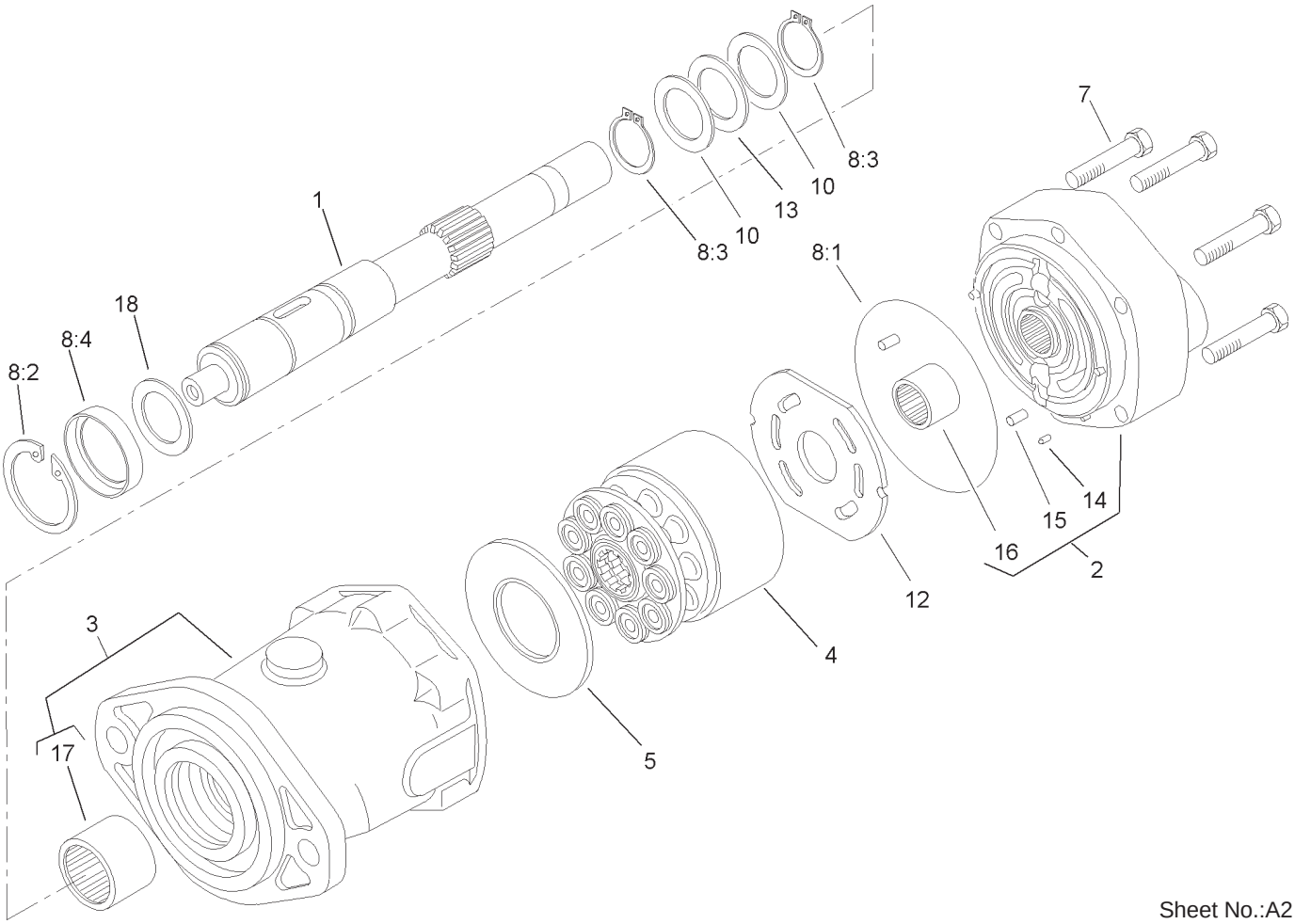
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Rear Axle and Tire Assembly

Ref. No.	Part No.	Qty.	Description
1	104–0764	1	Motor–Piston
2	340–2	1	Fitting–HYD, Straight
2:1	237–22	1	O–Ring
2:2	237–42	1	O–Ring
3	340–142	2	Fitting–HYD, 90°
3:1	237–58	1	O–Ring
3:2	237–81	1	O–Ring
4	325–7	2	Screw–HH
5	3256–26	2	Washer–Flat
6	237–166	1	O–Ring
7	32120–76	2	Ring–Snap, Ext
8	105–7447	1	Pinion–33t
12	32120–15	2	Ring–Snap, Ext
13	105–7446	1	Gear–39t
14	74–5700	1	Bearing–Needle, Roller
15	353–989	2	Plug–Hex, Hollow
15:1	237–42	1	O–Ring
☆16		2	Wheel And Tire ASM
16:1	94–5236	1	Tire
16:2	100–2582	1	Rim
16:3	232–27	1	Stem–Valve
17	93–5268	10	Nut–Lug
18	3272–12	2	Pin–Cotter
19	32136–14	2	Nut–SHH
20	100–3796	1	Spacer–Joint, Ball

Ref. No.	Part No.	Qty.	Description
21	92–5836	1	Washer
22	105–0775	1	Steering Cylinder ASM
22:1	92–5838	1	Joint–Ball
22:2	100–3795	1	Joint–Ball
22:3	32151–104	2	Ring–Retaining, External
22:4	302–5	1	Fitting–Grease
22:5	302–60	1	Fitting–Grease
☆22:6		1	Cylinder–Steering
23	340–54	2	Elbow–45°
23:1	237–22	1	O–Ring
23:2	237–78	1	O–Ring
24	3253–4	6	Washer–Lock
25	33114–020	6	Screw–HH

☆ Not serviced separately



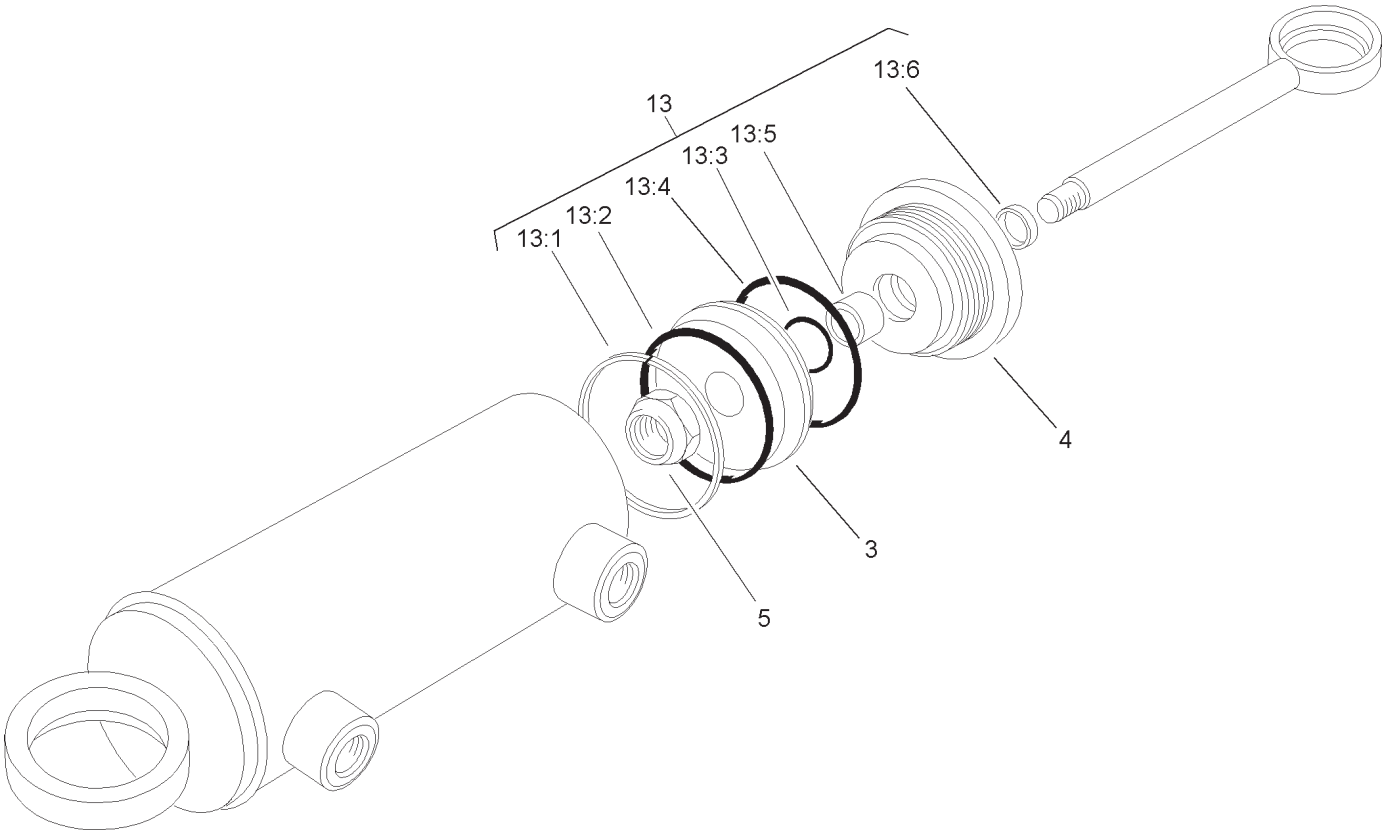
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Piston Motor Assembly No. 104–0764

Ref. No.	Part No.	Qty.	Description
1	105–2853	1	Shaft–Drive
2	105–2854	1	Backplate ASM
3	105–2855	1	Housing ASM
4	76–6910	1	Rotating Kit
5	76–6970	1	Insert–Plate, Cam
7	94–3002	6	Capscrew
8	106–6876	1	Seal Kit
☆8:1		1	O–Ring
8:2	93–6360	1	Ring–Retaining
8:3	76–7000	2	Ring–Retaining
☆8:4		1	Seal–Shaft
10	76–6950	2	Race–Thrust
12	94–3003	1	Plate–Valve
13	76–6960	1	Bearing–Thrust
☆14		3	Pin–Dowel
☆15		1	Pin–Dowel
☆16		1	Bearing–Needle
☆17		1	Bearing–Needle
18	60–6240	1	Washer

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



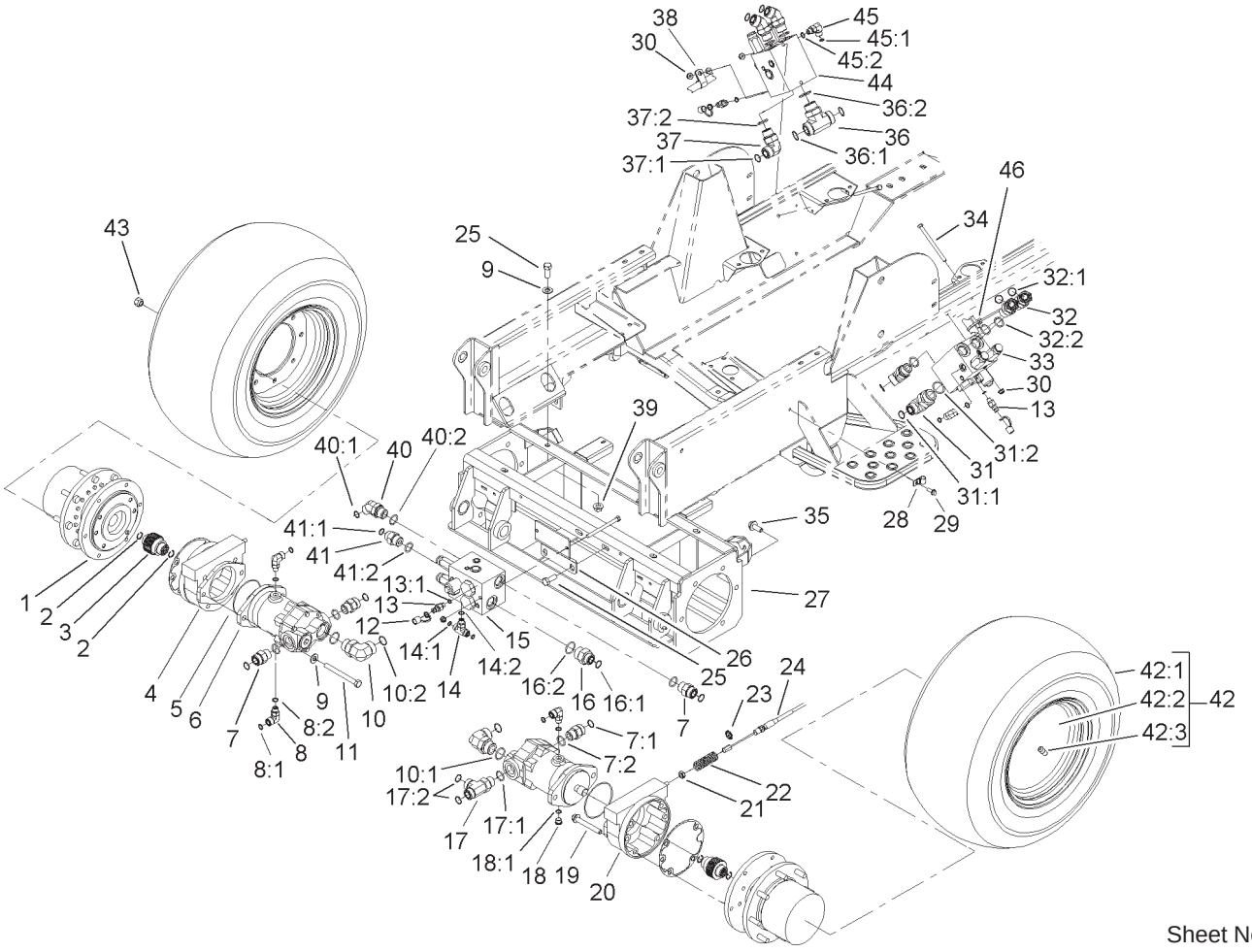
Sheet No.:A3

Steering Cylinder

Ref. No.	Part No.	Qty.	Description
3	66–1940	1	Piston
4	92–6588	1	Gland
5	66–1930	1	Locknut
13	92–6593	1	Seal Kit
☆13:1		1	Seal
☆13:2		1	O–Ring
☆13:3		1	O–Ring
☆13:4		1	O–Ring
☆13:5		1	U–Cup
☆13:6		1	Wiper

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

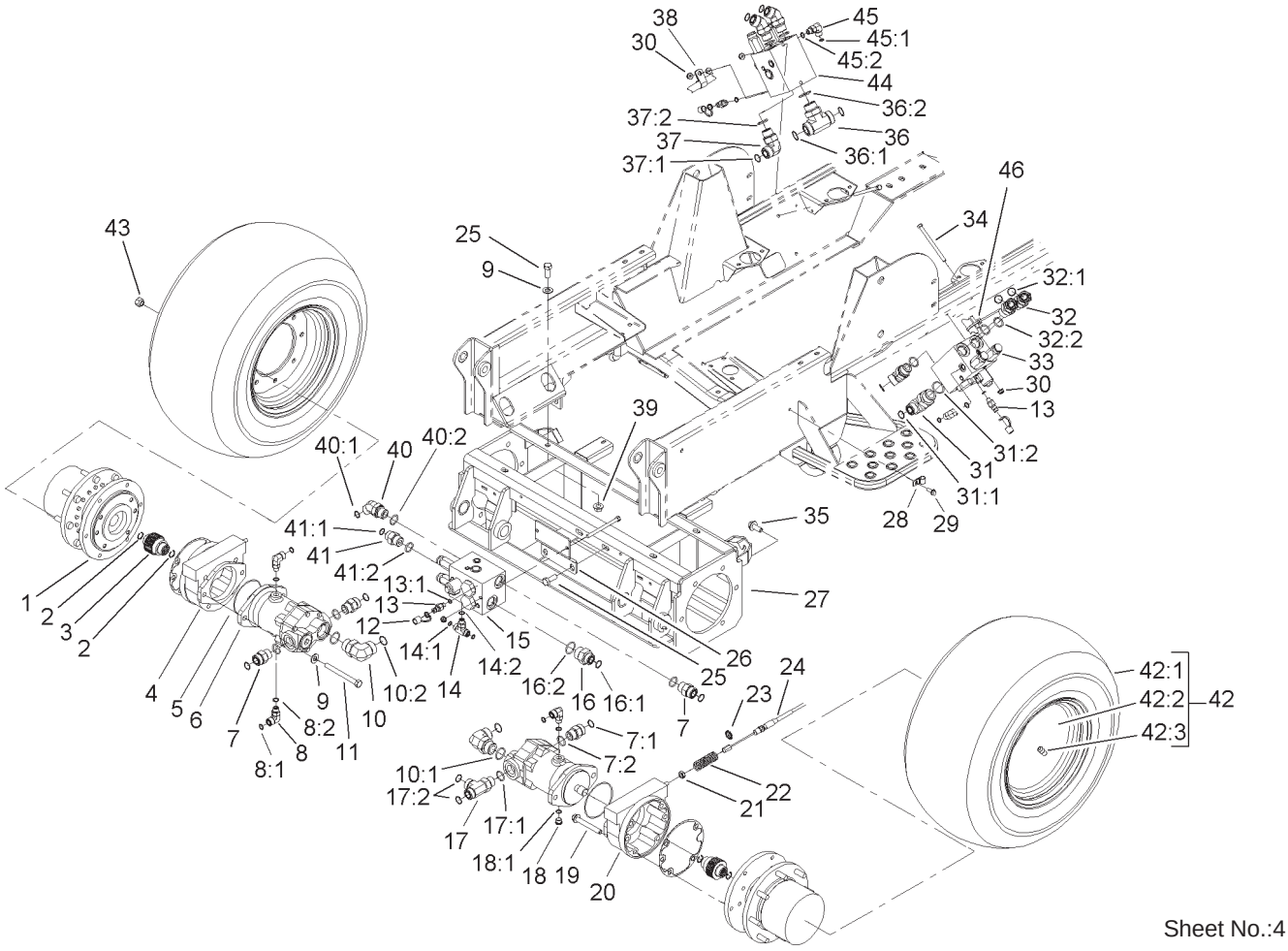


Sheet No.:4

Front Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	105–4588–03	2	Planetary ASM
2	93–7972	4	Ring–Retaining, Internal
3	100–3046	2	Shaft–Brake, Splined
4	100–3069	1	Brake ASM
5	237–166	2	O–Ring
6	105–7376	2	Front Piston Motor ASM
7	340–9	4	Fitting–HYD, Straight
7:1	237–58	1	O–Ring
7:2	237–81	1	O–Ring
8	340–99	3	Fitting–HYD–90
8:1	237–30	1	O–Ring
8:2	237–42	1	O–Ring
9	3256–26	10	Washer–Flat
10	340–129	2	Fitting–HYD, 90°
10:1	237–146	1	O–Ring
10:2	340–65	1	O–Ring
11	33116–120	4	Screw–HH
12	354–79	3	Cap–Dust
13	354–77	3	Fitting–Quick
13:1	237–78	1	O–Ring
14	340–94	1	Adapter
14:1	237–22	2	O–Ring
14:2	237–42	1	O–Ring
15	106–2039	1	PTO Manifold ASM

Ref. No.	Part No.	Qty.	Description
16	340–91	1	Adapter
16:1	237–58	1	O–Ring
16:2	237–146	1	O–Ring
17	340–148	1	Fitting–Tee
17:1	237–81	1	O–Ring
17:2	237–58	2	O–Ring
18	353–989	1	Plug–Hex, Hollow
18:1	237–42	1	O–Ring
19	33106–090	8	Screw–HHF
20	100–3070	1	Brake ASM
21	3218–4	2	Nut–Jam
22	94–3088	2	Spring–Compression
23	94–3050	2	Plate–Spring
24	99–5501	2	Brake Cable ASM
25	325–6	6	Screw–HH
26	104–0746–03	1	Bracket–Manifold
27	105–7491–03	1	Front Frame ASM
28	2412–93	2	Clamp–R
29	32144–11	2	Screw–TAP
30	104–8300	7	Nut–Flange, NI
31	340–15	1	Fitting–HYD, 90°
31:1	237–58	1	O–Ring
31:2	237–146	1	O–Ring
32	100–5530	5	Fitting–HYD, 45°
32:1	237–58	1	O–Ring
32:2	237–81	1	O–Ring



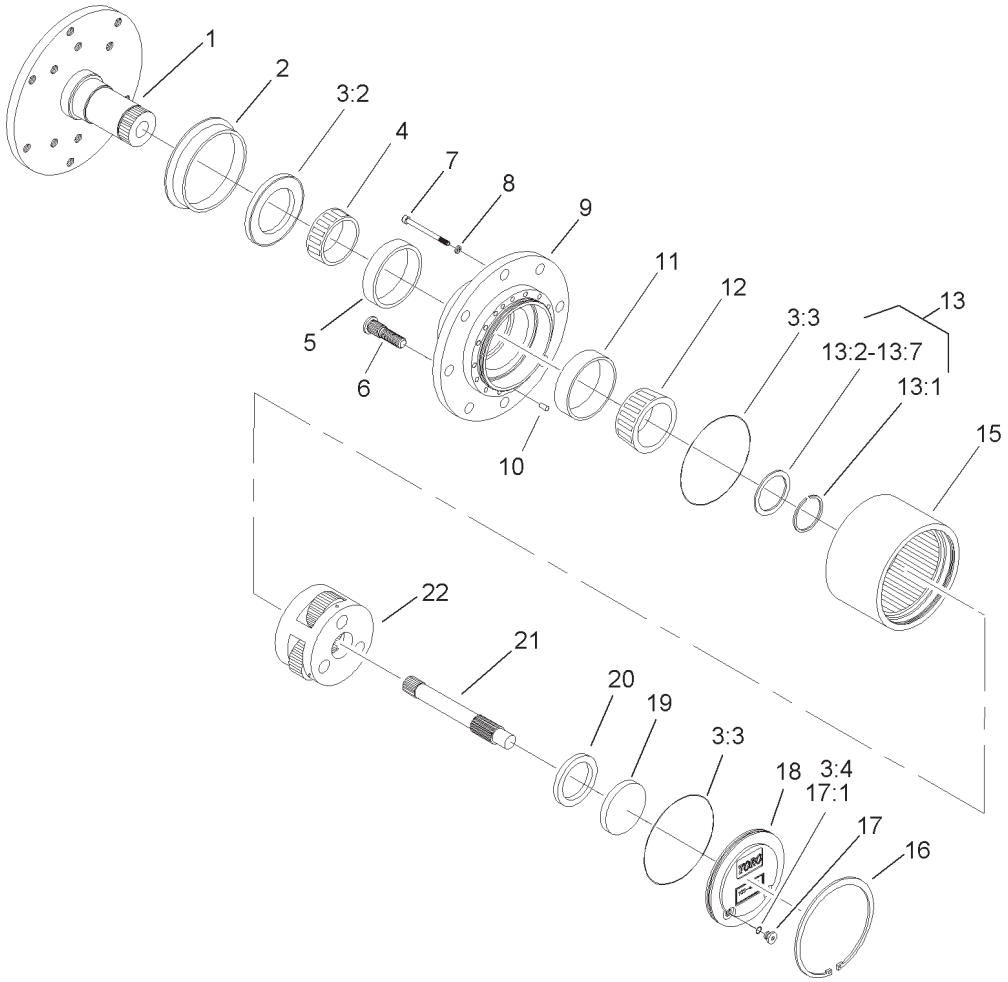
Sheet No.:4

Front Frame Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
33	100–3055	1	PTO Manifold ASM
34	322–38	6	Screw–HH
35	33106–030	12	Screw–HHF
36	104–7501	1	Fitting–HYD
36:1	340–65	2	O–Ring
36:2	237–146	1	O–Ring
37	340–142	1	Fitting–HYD, 90°
37:1	237–58	1	O–Ring
37:2	237–81	1	O–Ring
38	2412–81	1	Clamp–R
39	32128–23	8	Nut–HF
40	340–156	1	Fitting–HYD
40:1	237–65	1	O–Ring
40:2	237–81	1	O–Ring
41	340–8	1	Adapter
41:1	237–65	1	O–Ring
41:2	237–81	1	O–Ring
☆42		2	Tire & Wheel ASM
42:1	99–5434	1	Tire
42:2	99–5432	1	Rim
42:3	232–27	1	Stem–Valve
43	242–50	16	Nut–Lug
44	105–4562	1	PTO Manifold ASM
45	340–77	2	Fitting–HYD, 90°
45:1	237–22	1	O–Ring

Ref. No.	Part No.	Qty.	Description
45:2	237–42	1	O–Ring
46	3290–378	3	Tie–Cable

☆ Not serviced separately



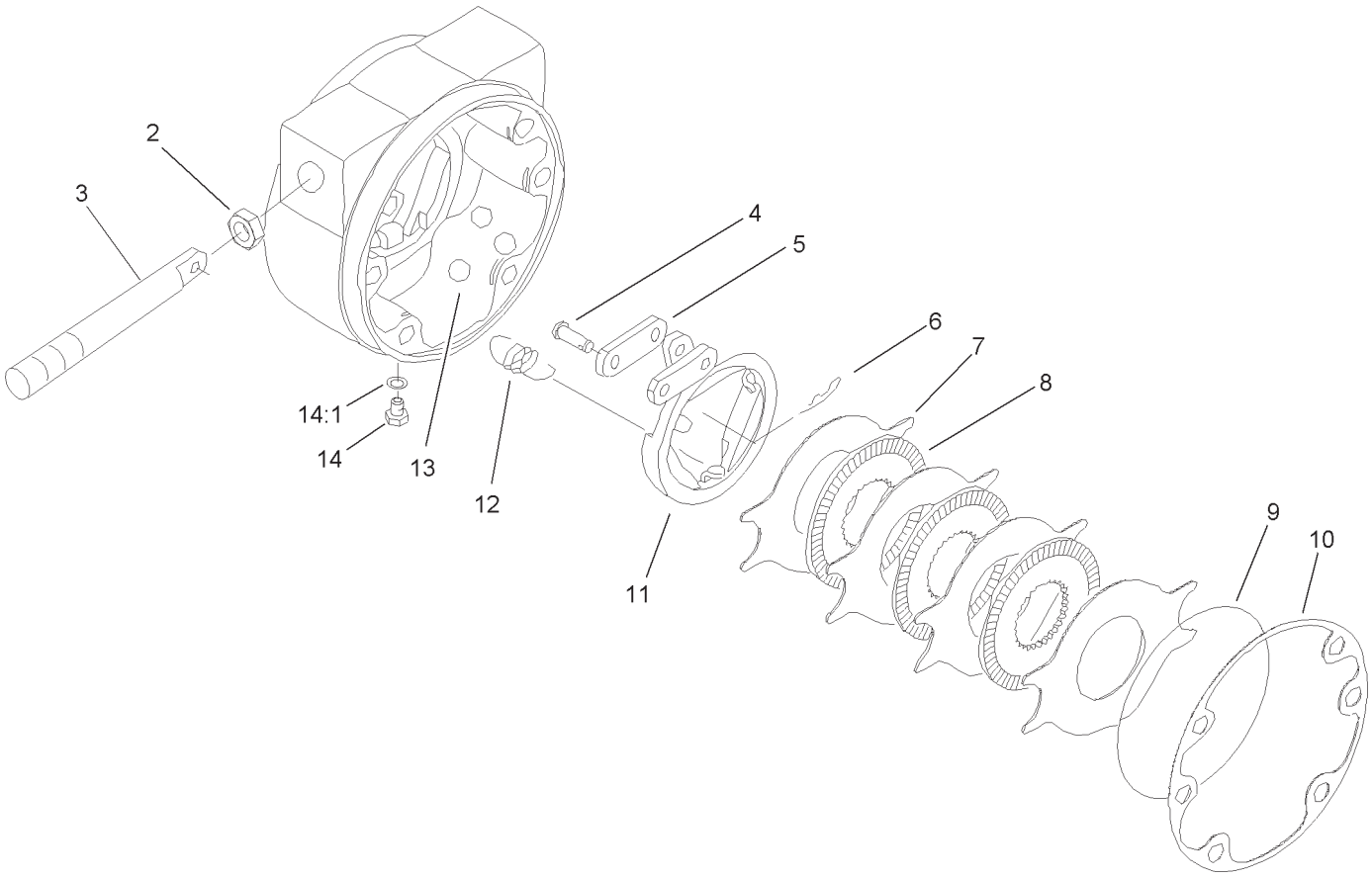
Sheet No.:A4

Planetary Assembly No. 105–4588–03

Ref. No.	Part No.	Qty.	Description
☆1		1	Spindle
2	105–8122	1	Seal–Boot
3	105–8137	1	Seal Kit
☆3:2		1	Seal–Oil
☆3:3		2	O Ring–End Cap
3:4	237–78	2	O–Ring
4	105–8120	1	Bearing–Cone
5	105–8119	1	Bearing–Cup
6	105–8124	8	Stud–Wheel
7	105–8125	16	Bolt–Head, Socket
8	3253–18	16	Washer–Lock/Sp
☆9		1	Housing
10	105–8121	2	Pin–Dowel
11	105–8117	1	Bearing–Cup
12	105–8118	1	Bearing–Cone
13	105–8136	1	Part Kit
☆13:1		1	Ring–Snap
☆13:2		1	Shim–Bearing, 2.9mm
☆13:3		1	Shim–Bearing, 2.8mm
☆13:4		1	Shim–Bearing, 2.7mm
☆13:5		1	Shim–Bearing, 2.6mm
☆13:6		1	Shim–Bearing, 2.5mm
☆13:7		1	Shim–Bearing, 2.4mm
15	105–8113	1	Gear–Ring
16	105–8132	1	Ring–Retaining
17	353–990	2	Plug

Ref. No.	Part No.	Qty.	Description
17:1	237–78	1	O–Ring
18	105–8138	1	Cap–End
19	105–8135	1	Plug–Thrust
20	106–6864	1	Washer–Thrust
21	105–8116	1	Shaft–Drive
22	106–6865	1	Secondary Carrier ASM

☆ Not serviced separately

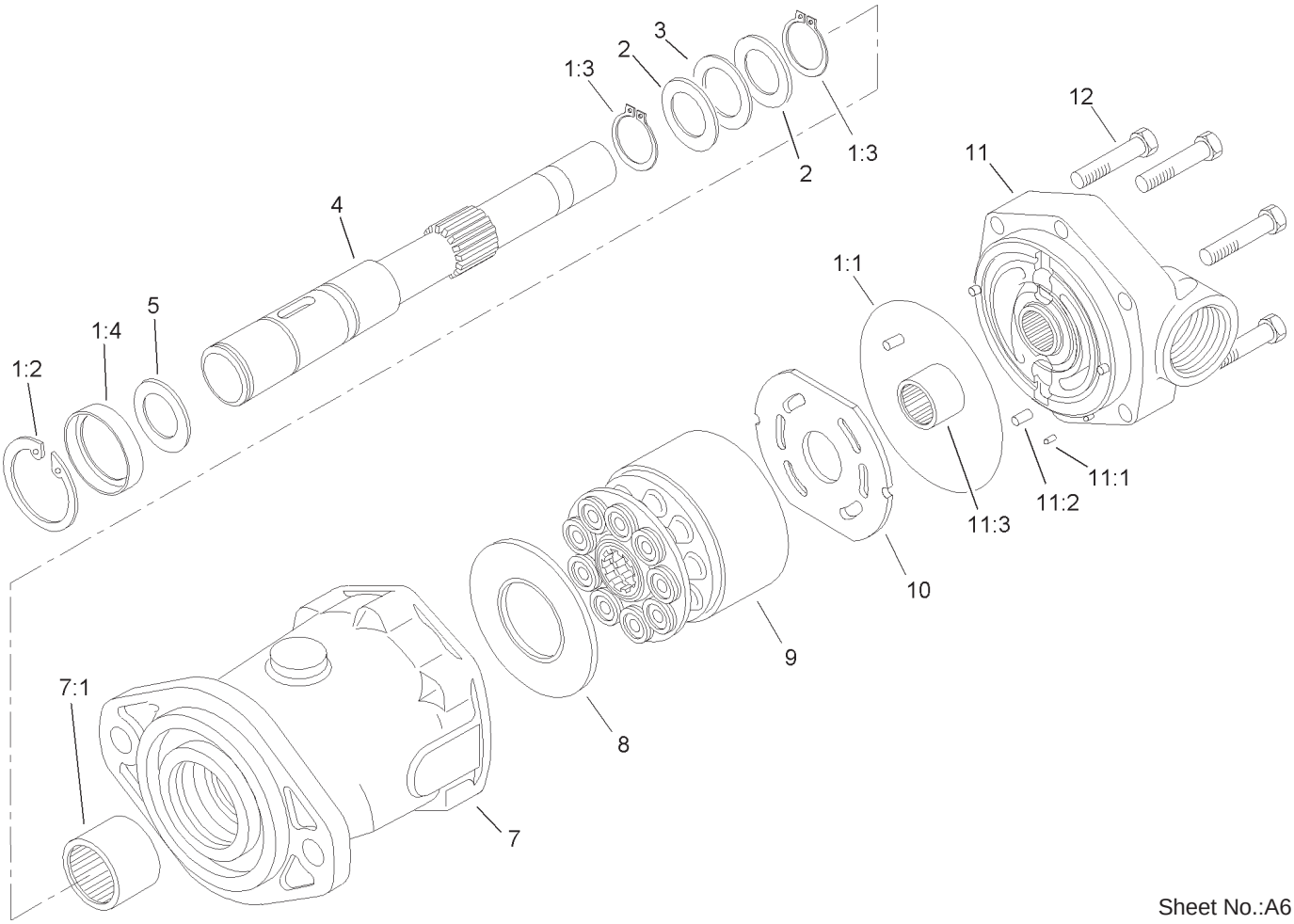


Sheet No.:A5

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



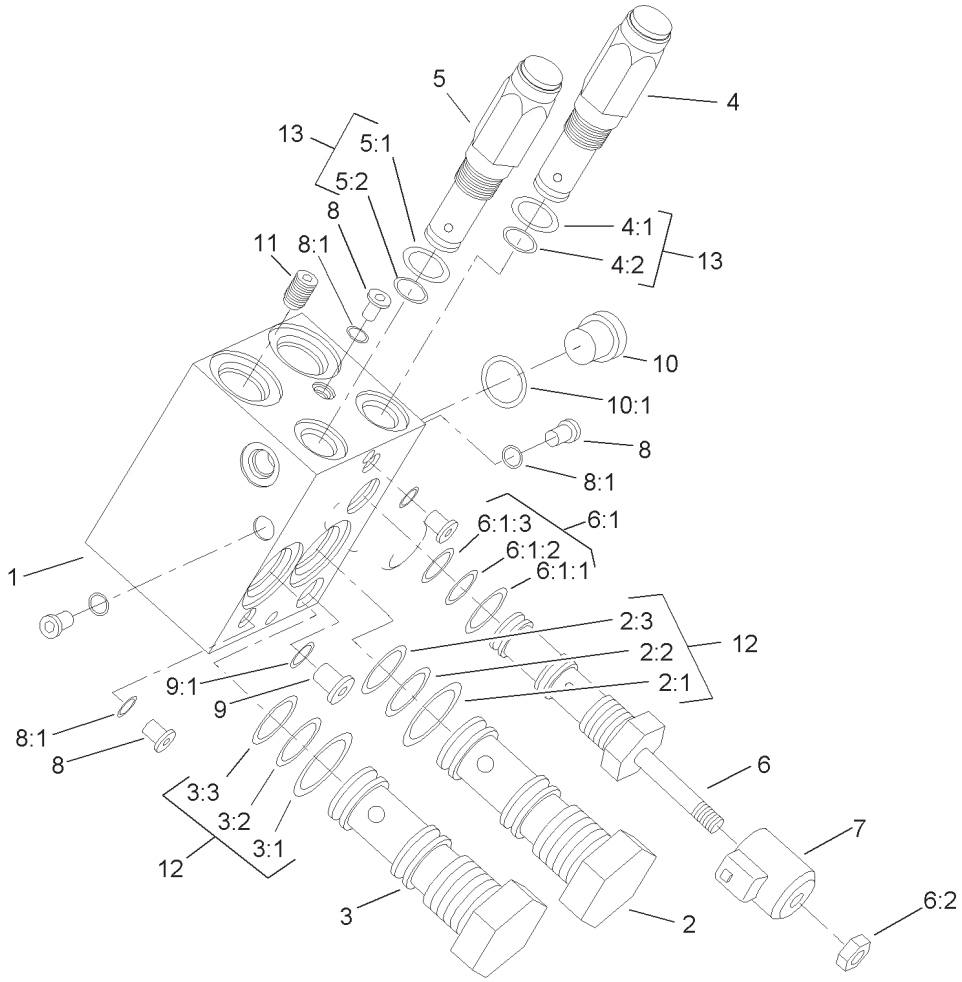
Sheet No.:A6

Front Piston Motor Assembly No. 105–7376

Ref. No.	Part No.	Qty.	Description
1	106–6876	1	Seal Kit
☆1:1		1	O–Ring
1:2	93–6360	1	Ring–Retaining
1:3	76–7000	2	Ring–Retaining
☆1:4		1	Seal–Shaft
2	60–6160	2	Race
3	76–6960	1	Bearing–Thrust
4	106–6874	1	Shaft–Drive
5	60–6240	1	Washer
7	105–2852	1	Housing ASM
☆7:1		1	Bearing–Needle
8	76–6970	1	Insert–Plate, Cam
9	106–6875	1	Rotating Kit
10	94–3003	1	Plate–Valve
11	105–2851	1	Backplate ASM
☆11:1		3	Pin–Dowel
☆11:2		1	Pin–Dowel
☆11:3		1	Bearing–Needle
12	100–2550	6	Screw–Cap

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



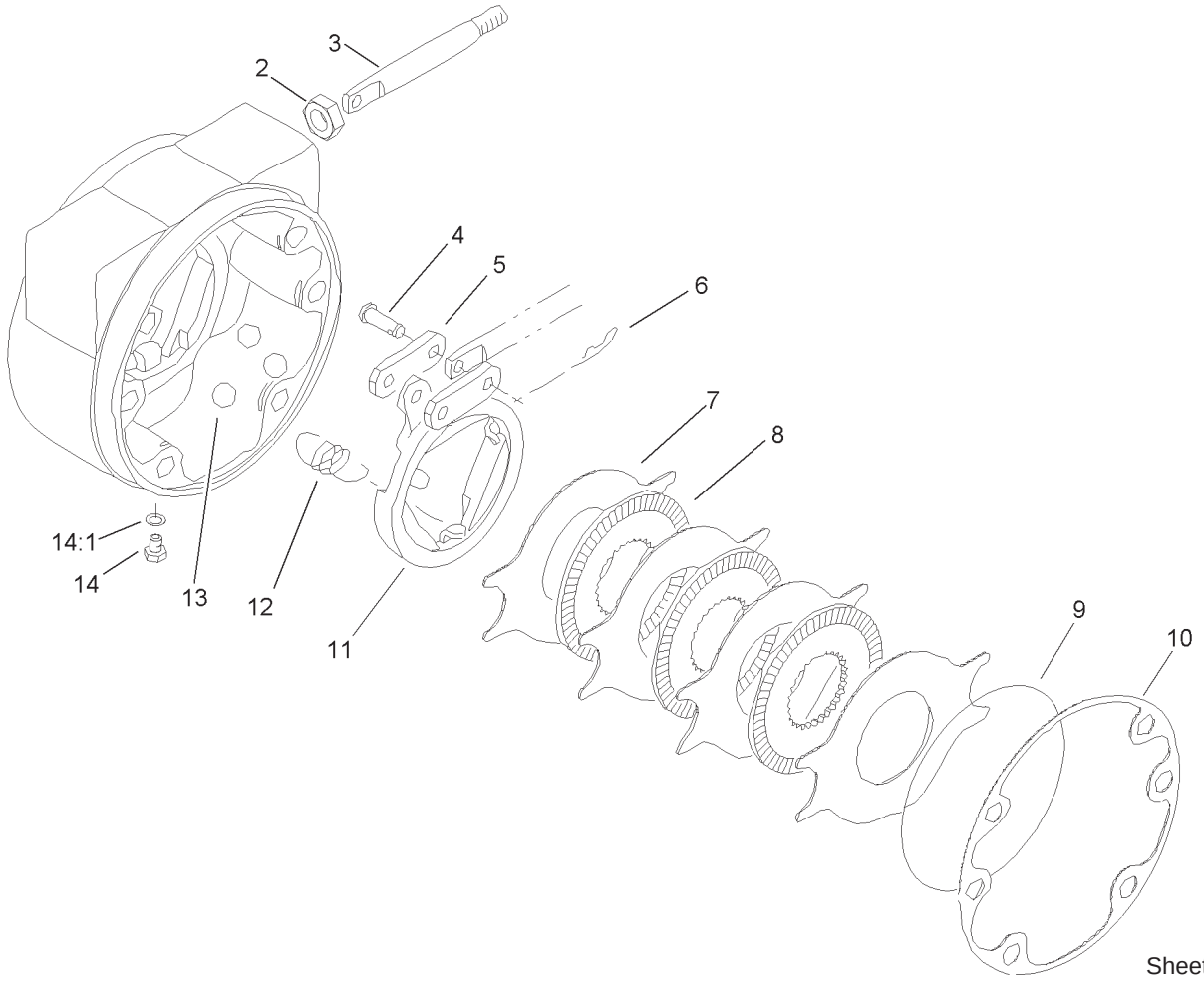
Sheet No.:A7

Power Take Off Manifold Assembly No. 106–2039

Ref. No.	Part No.	Qty.	Description
☆1		1	Body
2	104–4297	1	Cartridge–Spool Logic
☆2:1		1	O–Ring
☆2:2		1	O–Ring
☆2:3		1	O–Ring
3	104–4298	1	Cartridge–Spool Logic
☆3:1		1	O–Ring
☆3:2		1	O–Ring
☆3:3		1	O–Ring
4	95–5635	1	Valve–Relief
☆4:1		1	O–Ring
☆4:2		1	O–Ring
5	104–4273	1	Cartridge–Relief, Pilot
☆5:1		1	O–Ring
☆5:2		1	O–Ring
6	95–5638	1	Valve–Solenoid
6:1	95–5917	1	Seal Kit
☆6:1:1		1	O–Ring
☆6:1:2		1	O–Ring
☆6:1:3		1	O–Ring
6:2	3220–4	1	Nut–Jam
7	105–7340	1	Coil ASM
8	353–991	5	Plug–Hex, Hollow
8:1	237–156	1	O–Ring
9	353–990	1	Plug
9:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description
10	353–988	1	Plug–Hex, Hollow
10:1	237–79	1	O–Ring
11	3246–17	1	Setscrew–HSH
12	95–5644	2	Seal Kit
13	95–5645	2	Seal Kit

☆ Not serviced separately

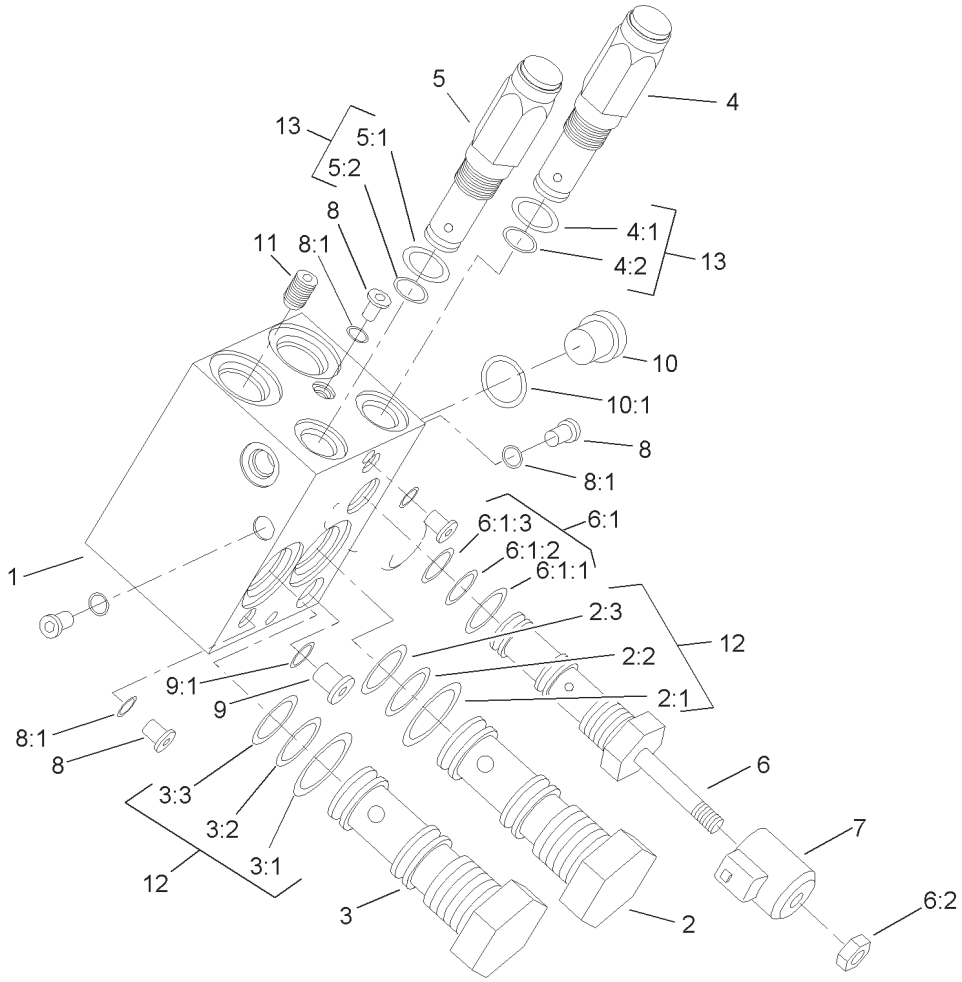


Sheet No.:A8

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



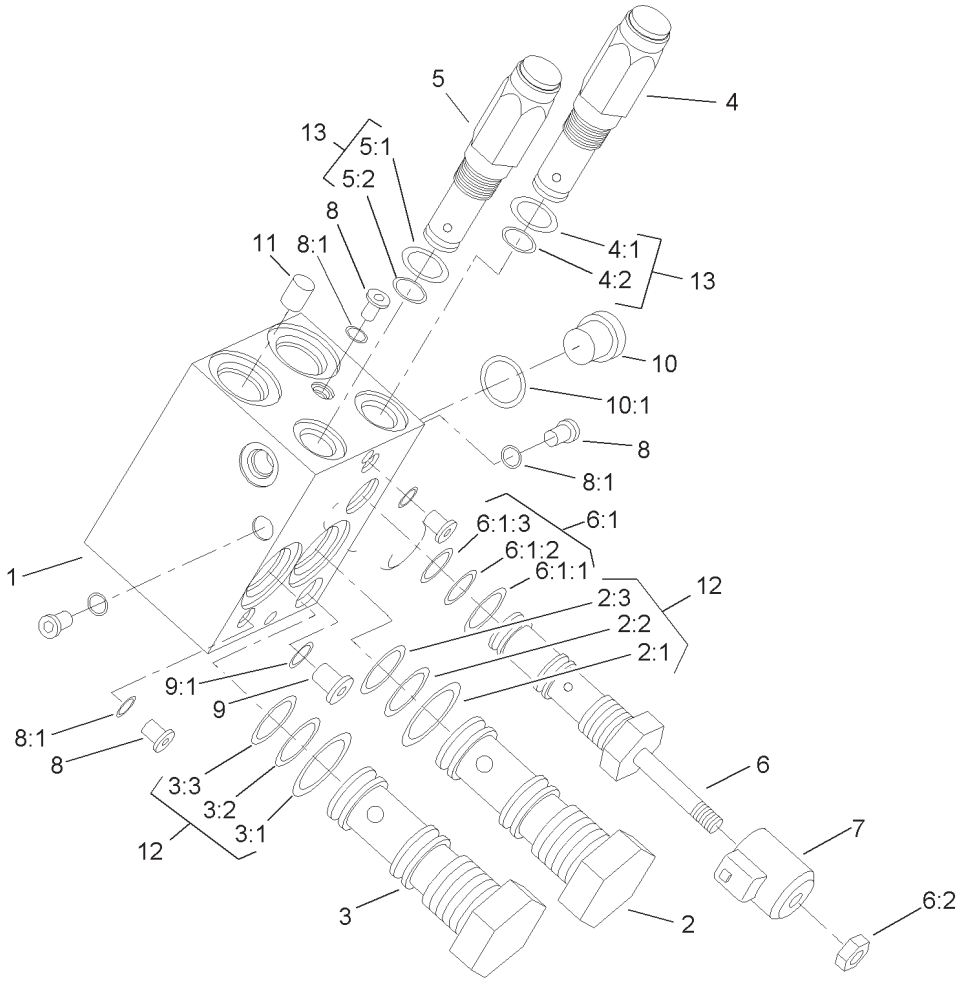
Sheet No.:A9

Power Take Off Manifold Assembly No. 100–3055

Ref. No.	Part No.	Qty.	Description
☆1		1	Body
2	104–4297	1	Cartridge–Spool Logic
☆2:1		1	O–Ring
☆2:2		1	O–Ring
☆2:3		1	O–Ring
3	104–4298	1	Cartridge–Spool Logic
☆3:1		1	O–Ring
☆3:2		1	O–Ring
☆3:3		1	O–Ring
4	95–5635	1	Valve–Relief
☆4:1		1	O–Ring
☆4:2		1	O–Ring
5	104–4273	1	Cartridge–Relief, Pilot
☆5:1		1	O–Ring
☆5:2		1	O–Ring
6	95–5638	1	Valve–Solenoid
6:1	95–5917	1	Seal Kit
☆6:1:1		1	O–Ring
☆6:1:2		1	O–Ring
☆6:1:3		1	O–Ring
6:2	3220–4	1	Nut–Jam
7	105–7340	1	Coil ASM
8	353–991	5	Plug–Hex, Hollow
8:1	237–156	1	O–Ring
9	353–990	1	Plug
9:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description
10	353–988	1	Plug–Hex, Hollow
10:1	237–79	1	O–Ring
11	104–4276	1	Plug–Orifice
12	95–5644	2	Seal Kit
13	95–5645	2	Seal Kit

☆ Not serviced separately



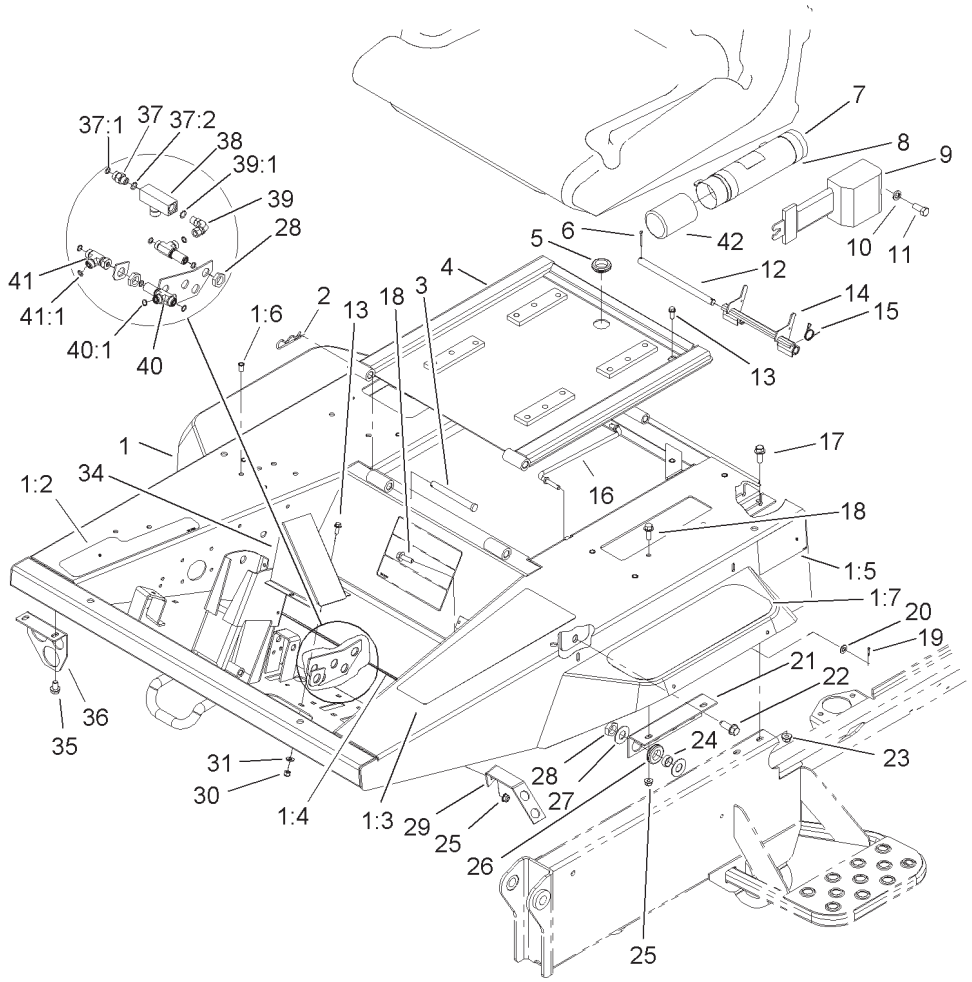
Sheet No.:B1

Power Take Off Manifold Assembly No. 105–4562

Ref. No.	Part No.	Qty.	Description
☆1		1	Body
2	104–4297	1	Cartridge–Spool Logic
☆2:1		1	O–Ring
☆2:2		1	O–Ring
☆2:3		1	O–Ring
3	104–4298	1	Cartridge–Spool Logic
☆3:1		1	O–Ring
☆3:2		1	O–Ring
☆3:3		1	O–Ring
4	105–4564	1	Valve–Relief
☆4:1		1	O–Ring
☆4:2		1	O–Ring
5	104–4273	1	Cartridge–Relief, Pilot
☆5:1		1	O–Ring
☆5:2		1	O–Ring
6	95–5638	1	Valve–Solenoid
6:1	95–5917	1	Seal Kit
☆6:1:1		1	O–Ring
☆6:1:2		1	O–Ring
☆6:1:3		1	O–Ring
6:2	3220–4	1	Nut–Jam
7	105–7340	1	Coil ASM
8	353–991	5	Plug–Hex, Hollow
8:1	237–156	1	O–Ring
9	353–990	1	Plug
9:1	237–78	1	O–Ring

Ref. No.	Part No.	Qty.	Description
10	353–988	1	Plug–Hex, Hollow
10:1	237–79	1	O–Ring
11	104–4276	1	Plug–Orifice
12	95–5644	2	Seal Kit
13	95–5645	2	Seal Kit

☆ Not serviced separately

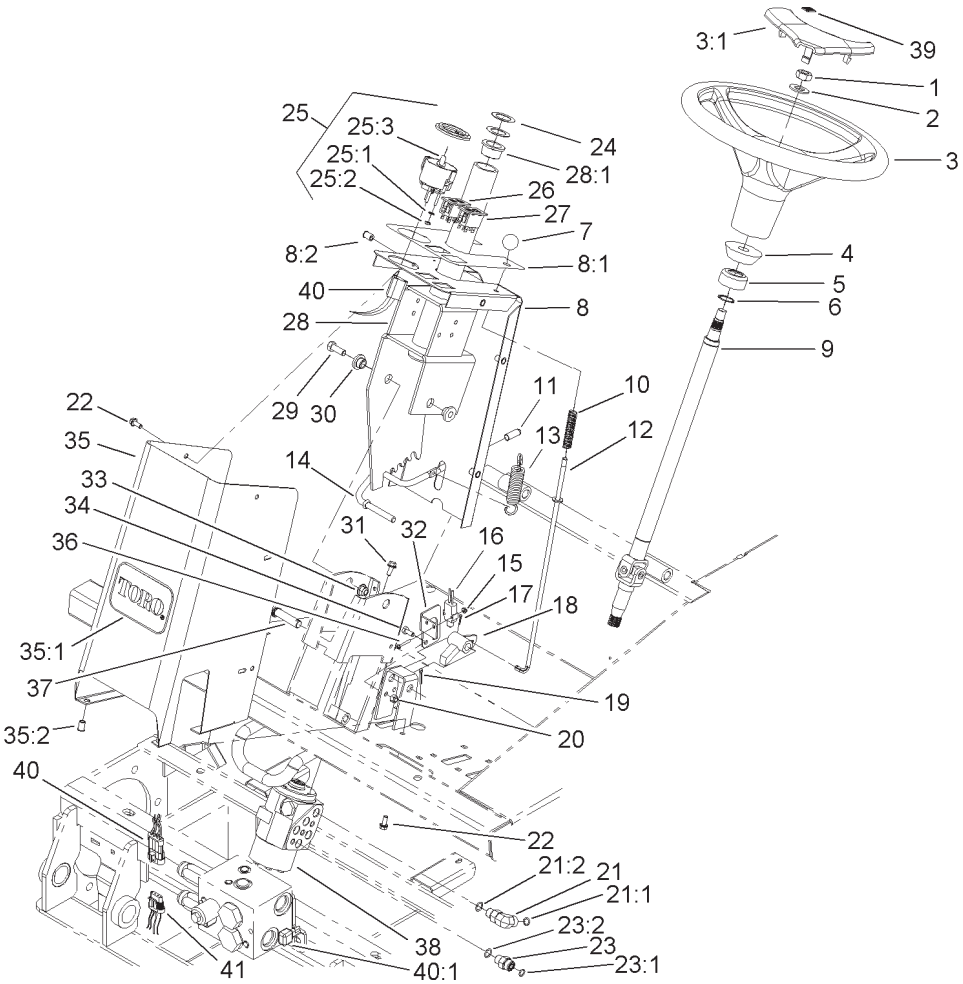


Sheet No.:5

Platform and Seat Base Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7350	1	Platform ASM
1:2	104–3599	1	Decal–Pedal, Traction
1:3	93–5507	1	Abrasive–Platform
1:4	93–5349	2	Abrasive–Floor
1:5	94–8099	2	Decal–4wd
1:6	32148–6	14	Insert–Nut
1:7	105–7375	1	Abrasive–Platform
2	3290–355	2	Pin–Hair
3	93–5343	2	Pin–Clevis
4	100–3060–03	1	Seat Plate ASM
5	240–5	1	Grommet
6	3272–11	2	Pin–Cotter
7	104–7050	1	Housing–Manual
8	2412–133	2	R–Clamp
9	100–4928	1	Belt–Seat
10	3253–6	2	Washer–Lock
11	3212–4	2	Screw–HH
12	93–5366	1	Shaft–Latch
13	3234–4	3	Screw–HHF
14	93–5363	1	Latch ASM
15	93–5367	1	Spring–Torsion
16	93–5338	1	Rod–Prop
17	3234–42	2	Screw–HHF
18	3234–29	3	Screw–HHF
19	3272–5	2	Pin–Cotter
20	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description
21	100–3149–03	1	Bracket–Bulkhead
22	32144–67	2	Screw
23	104–8301	2	Nut–Flange, NI
24	69–8970	4	Spacer
25	104–8300	3	Nut–Flange, NI
26	240–4	4	Grommet–Rubber
27	69–8940	8	Washer
28	340–70	6	Nut–Lock
29	100–5500–03	1	Support
30	3296–42	2	Nut–Lock, NI
31	3256–22	2	Washer–Flat
34	100–3045–01	1	Cover–Tubes
35	32144–14	4	Screw–HWH
36	105–7489–01	1	Bracket–Bulkhead, RH
36	105–7373–01	1	Bracket–Bulkhead, LH
37	340–2	1	Fitting–HYD, Straight
37:1	237–22	1	O–Ring
37:2	237–42	1	O–Ring
38	98–9742	1	Valve–Control, Flow
39	340–110	1	Fitting–Swivel, 90°
39:1	237–42	1	O–Ring
40	340–68	2	Fitting–Tee, Bulkhead
40:1	237–22	3	O–Ring
41	340–115	1	Fitting–Tee
41:1	237–22	2	O–Ring
42	104–7048	1	Cap–Housing

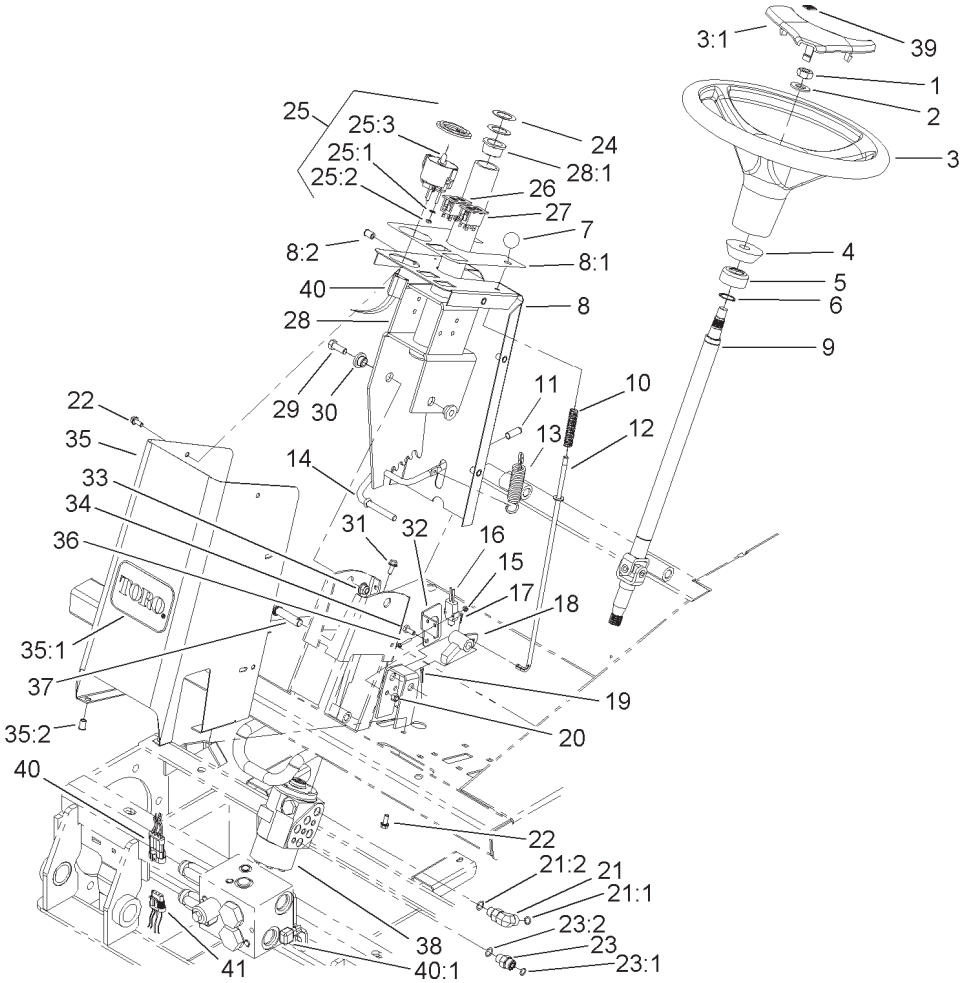


Sheet No.:6

Steering Tower Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5590	1	Nut–Hex
2	3256–27	1	Washer–Flat
3	98–1471	1	Wheel–Steering
3:1	98–1468	1	Cover–Wheel, Steering
4	93–5429	1	Collar–Foam
5	93–5439	1	Seal–Steering
6	32151–29	2	Ring–Retaining
7	93–5312	1	Knob
8	104–2274	1	Tower Cover ASM
8:1	104–2277	1	Decal–Tower
8:2	32148–6	6	Insert–Nut
9	93–5428	1	Steering Shaft ASM
10	71–8310	1	Spring–Compression
11	93–5446	1	Cap–Vinyl
12	104–8308	1	Rod ASM
13	93–5985	1	Spring–Extension
14	93–5989	1	Rod–Tilt
15	3296–9	2	Nut–Lock, NI
16	99–3410	1	Switch
17	3272–5	1	Pin–Cotter
18	93–5276–03	1	Brake Pawl ASM
19	3272–10	1	Pin–Cotter
20	3296–42	2	Nut–Lock, NI
21	340–77	1	Fitting–HYD, 90°
21:1	237–22	1	O–Ring

Ref. No.	Part No.	Qty.	Description
21:2	237–42	1	O–Ring
22	3234–33	10	Screw–HHF
23	340–2	4	Fitting–HYD, Straight
23:1	237–22	1	O–Ring
23:2	237–42	1	O–Ring
24	256–260	4	Washer–Thrust
25	98–9308	1	Gauge–Temperature
25:1	3254–1	3	Washer–Lock, Int
25:2	3217–27	3	Nut–Hex
25:3	105–9265	1	Bulb And Lamp ASM
26	100–8070	1	Lamp–Warning
27	100–8071	1	Lamp–Warning
28	104–8332	1	Steering Column ASM
28:1	256–132	2	Bushing–Flange
29	323–6	2	Screw–HH
30	93–5988	2	Hub–Pivot
31	33103–016	4	Screw–HHF
32	104–0128	1	Bracket–Switch
33	104–8301	2	Nut–Flange, NI
34	321–3	2	Screw–HH
35	100–3038	1	Steering Tower ASM
35:1	67–1300	1	Decal
35:2	32148–6	4	Insert–Nut
36	3250–35	2	Screw–PPH
37	283–5	1	Pin–Clevis
38	104–2213	1	Valve–Steering



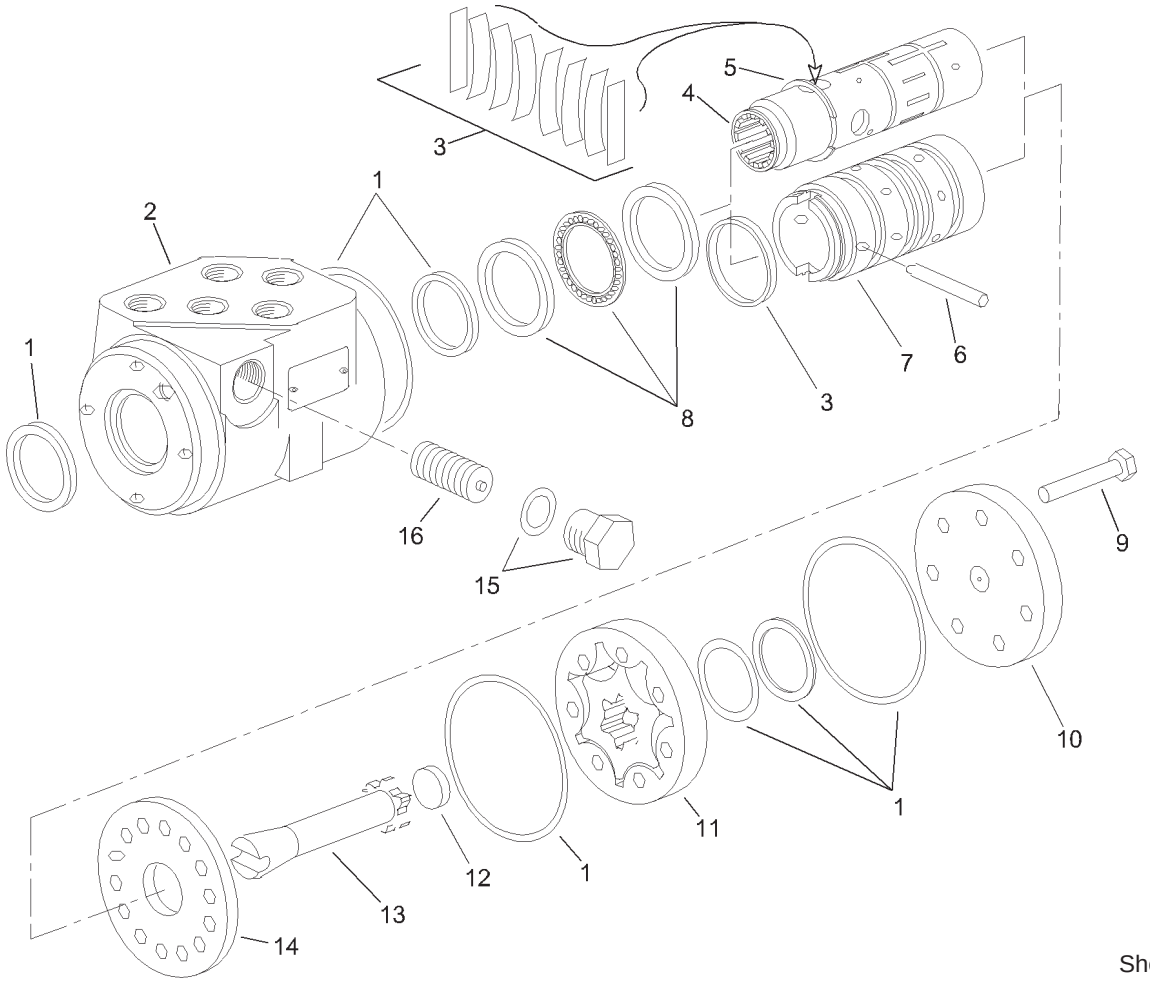
Sheet No.:6

Steering Tower Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
39	98–1459	1	Decal
40	105–7476	1	Harness–Wire, Front
40:1	100–4918	1	Diode
41	106–7160	1	Harness–Wire, Jumper
*41:1	100–4918	1	Diode

Ref. No.	Part No.	Qty.	Description

* Not illustrated



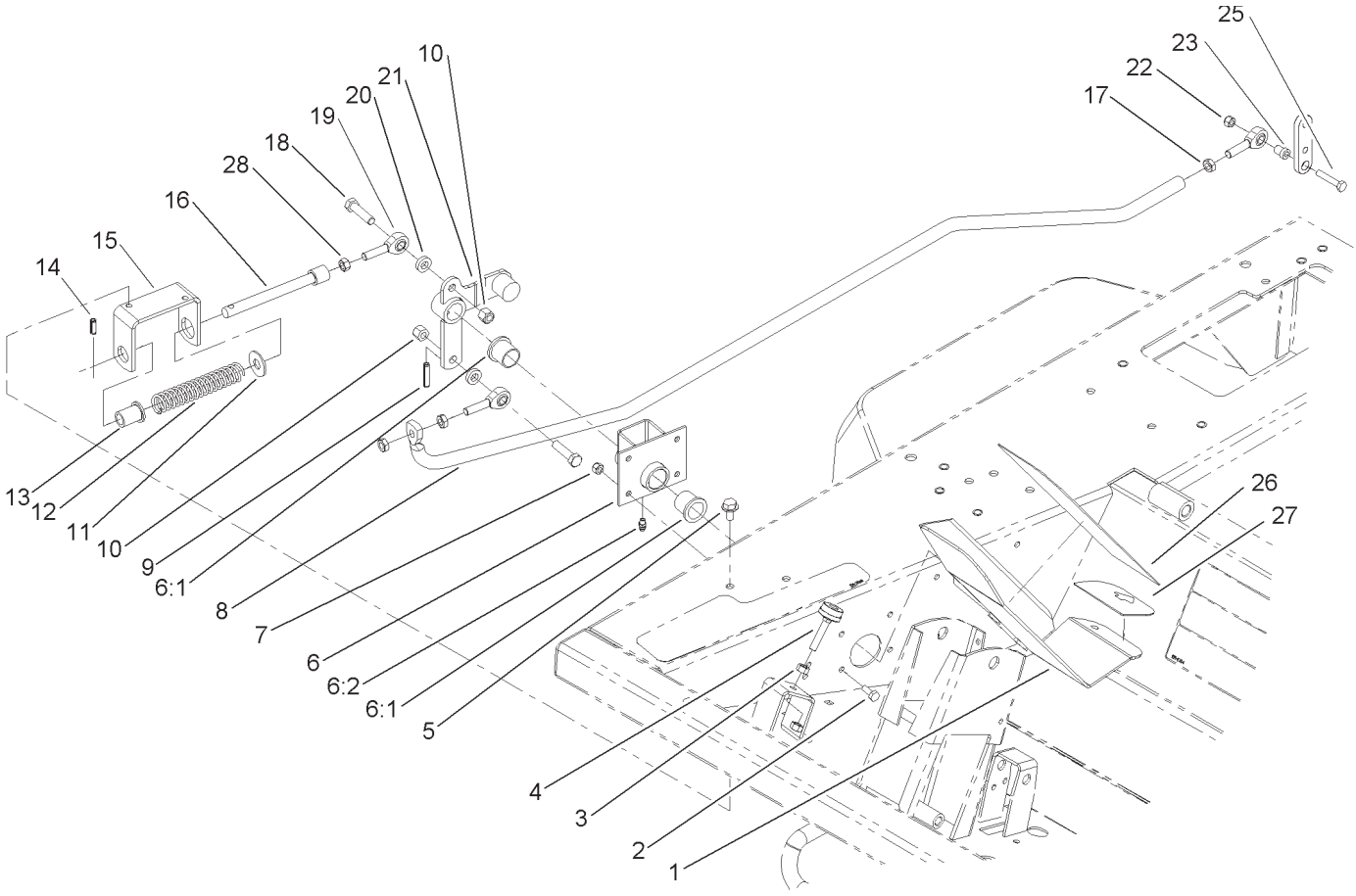
Sheet No.:B2

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

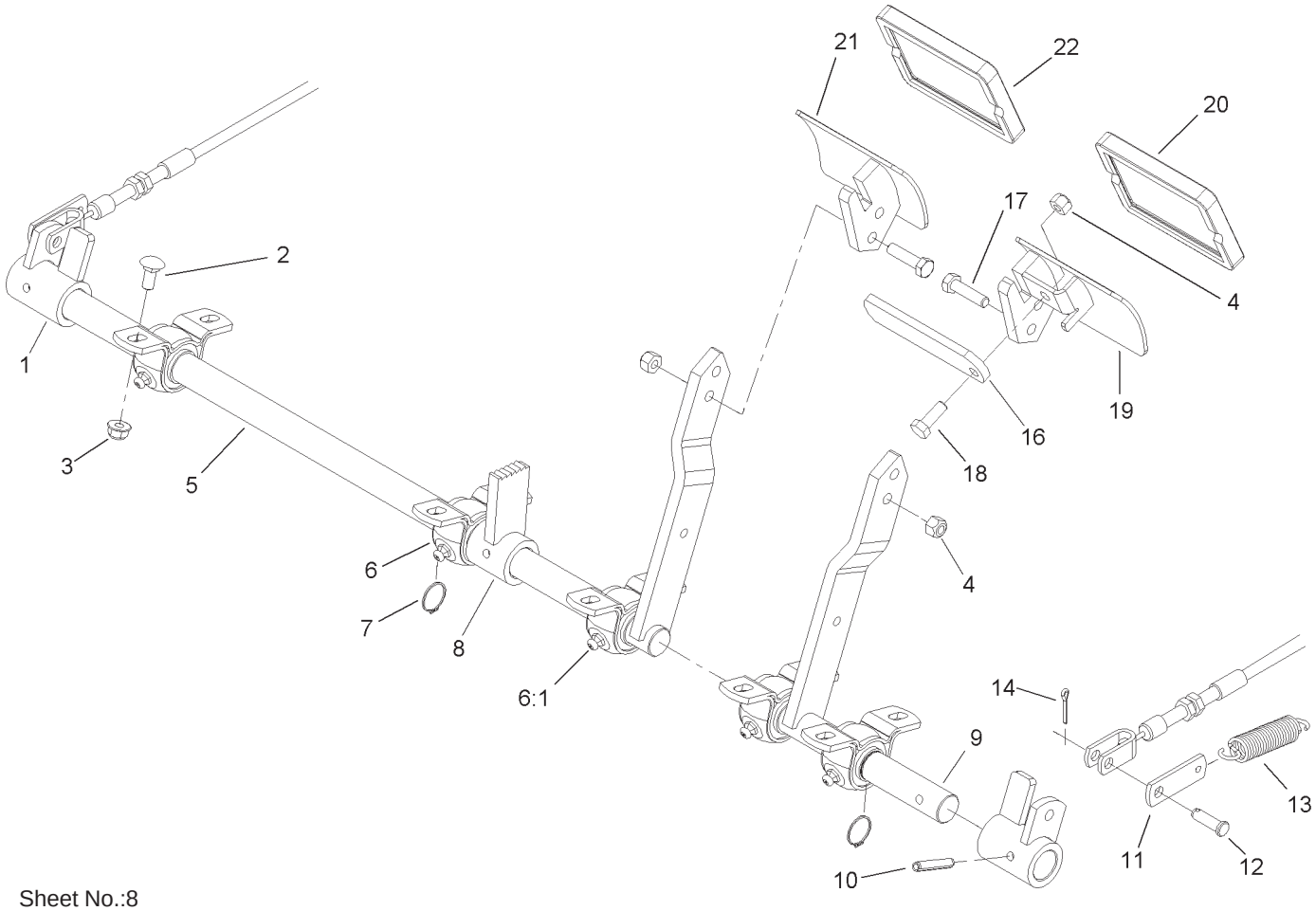


Sheet No.:7

Traction Pedal and Linkage Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5133–01	1	Traction Pedal ASM
2	321–4	4	Screw–HH
3	3217–6	2	Nut–Hex
4	32141–36	1	Screw–Adjustment, Level
5	32144–14	2	Screw–HWH
6	104–3565	1	Pedal Bracket ASM
6:1	256–10	2	Bushing–Flange
6:2	302–5	1	Fitting–Grease
7	3296–42	4	Nut–Lock, NI
8	100–3136–03	1	Rod–Traction
9	32121–9	1	Pin–Spring
10	3296–39	2	Nut–Lock, NI
11	3256–5	1	Washer–Flat
12	84–9100	1	Spring
13	92–7610	1	Retainer–Spring
14	32121–11	1	Pin–Roll
15	100–3137–03	1	Bracket–Spring
16	92–7609	1	Shaft–Spring
17	3220–3	3	Nut–Jam
18	323–8	2	Screw–HH
19	2411–36	3	Bearing–End, Rod
20	80–7730	2	Spacer
21	100–3138	1	Lever–Traction
22	3296–42	1	Nut–Lock, NI
23	104–7517	1	Spacer

Ref. No.	Part No.	Qty.	Description
25	321–9	1	Screw–HH
26	93–5347	1	Abrasive–Pedal
27	93–5368	1	Abrasive–Pedal
28	3219–3	1	Nut–HH

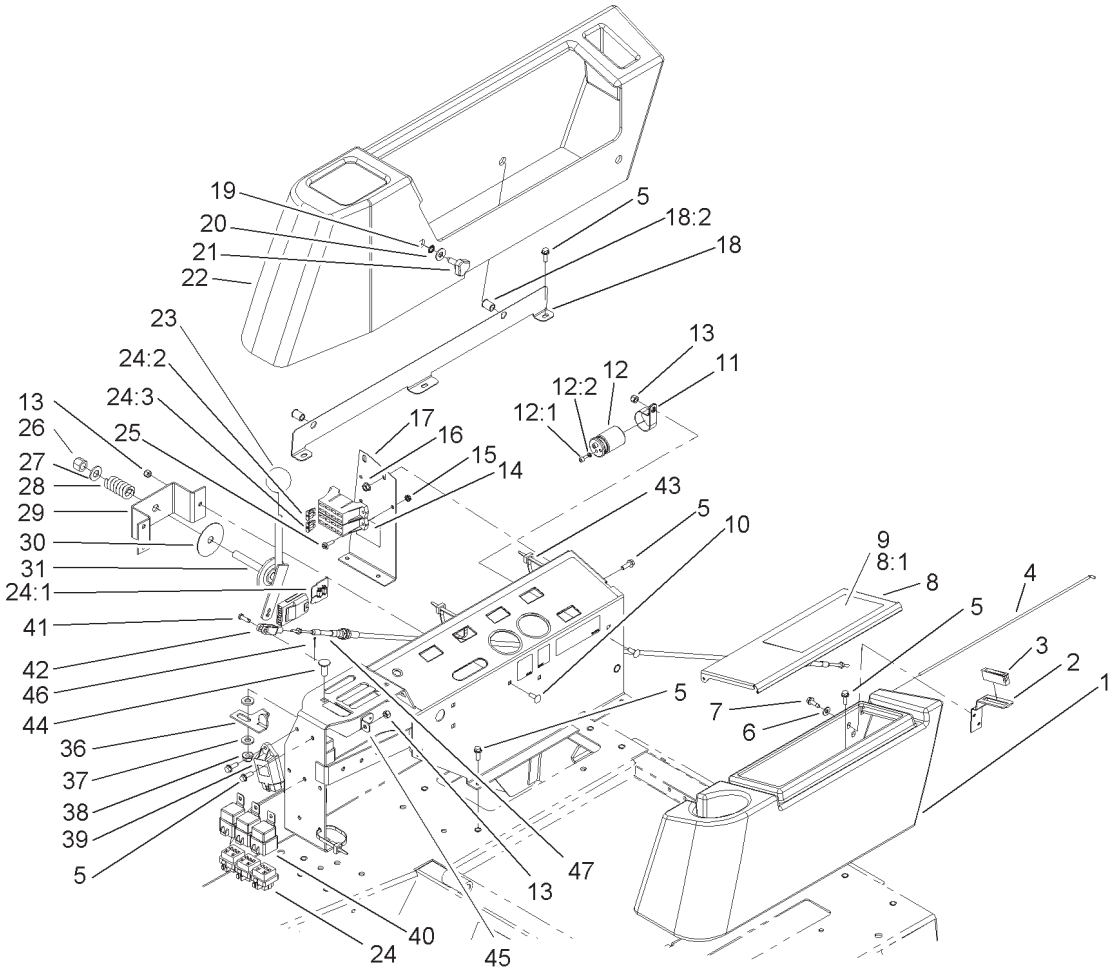


Sheet No.:8

Brake Pedal and Linkage Assembly

Ref. No.	Part No.	Qty.	Description
1	100–3002–03	2	Brake Lever ASM
2	3230–20	10	Screw–CARR
3	104–8300	10	Nut–Flange, NI
4	3296–29	5	Nut–Lock, NI
5	100–3000–03	1	RH Brake Arm ASM
6	93–4849	5	Bearing–Block, Pillow
6:1	302–5	1	Fitting–Grease
7	32151–83	3	Ring–Snap
8	93–5475–03	1	Brake Latch ASM
9	100–2997–03	1	LH Brake Arm ASM
10	32121–15	3	Pin–Roll
11	100–5540	2	Strap–Brake
12	283–61	2	Pin–Yoke
13	93–5262	2	Spring–Extension
14	3272–6	2	Pin–Cotter
16	93–5568	1	Arm–Lock
17	322–6	4	Screw–HH
18	322–4	1	Screw–HH
19	105–4553–03	1	LH Pedal ASM
20	27–7570	1	Pad–Turn, Left
21	105–4554–03	1	RH Pedal ASM
22	27–7580	1	Pad–Turn, Right

Ref. No.	Part No.	Qty.	Description

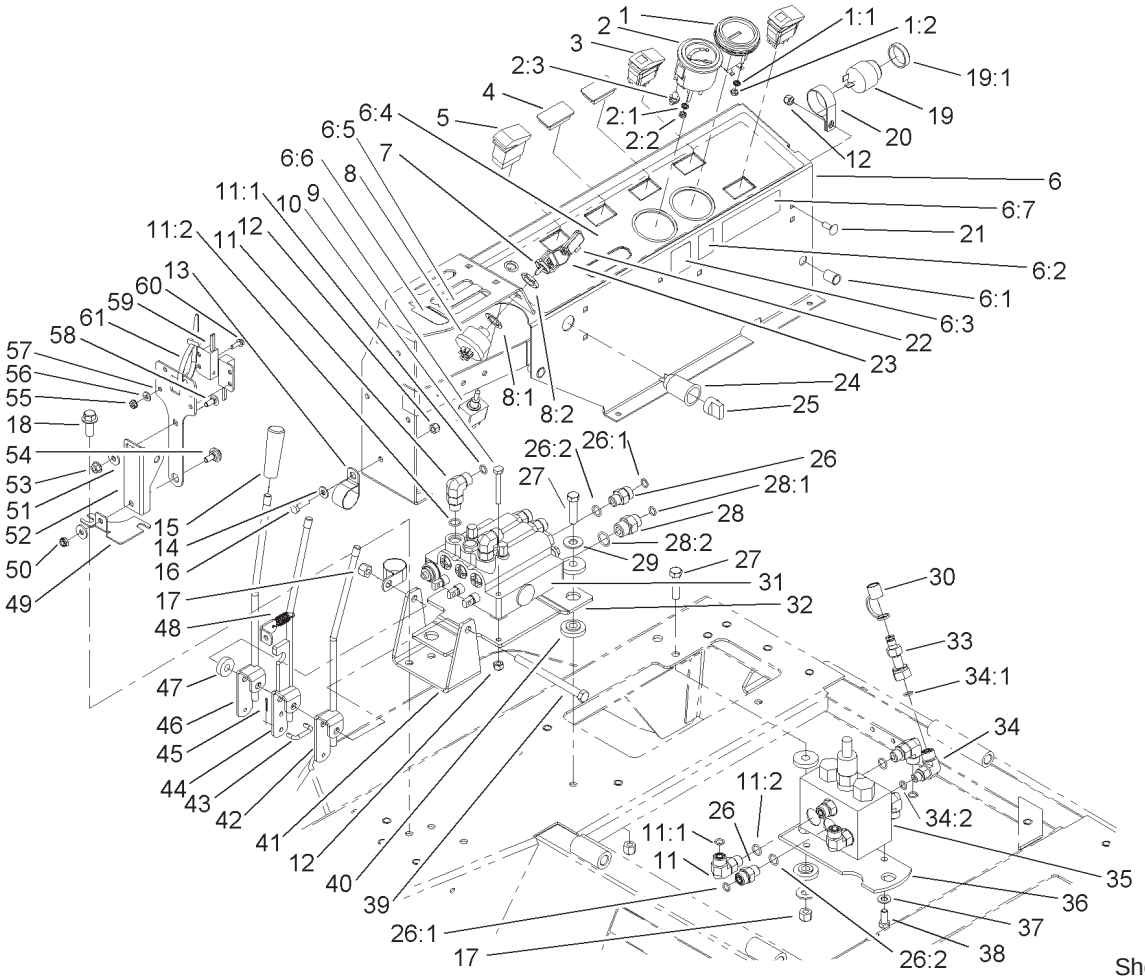


Sheet No.:9

Tool Box Assembly

Ref. No.	Part No.	Qty.	Description
1	104–7515	1	Housing–Box, Tool
2	104–7545	1	Bracket–Latch
3	58–4250	1	Catch–Magnetic
4	104–7548	1	Rod–Hinge
5	3234–4	20	Screw–HHF
6	3256–22	2	Washer–Flat
7	32104–95	2	Screw–HWH
8	104–8321	1	Tool Box Cover ASM
8:1	106–6756	1	Decal–Warning
9	106–6752	1	Decal–Warning (Ce)
10	3229–1	5	Screw–CARR
11	2412–74	2	R–Clamp
12	37–2690	2	Capacitor
12:1	3252–18	2	Screw
12:2	3254–1	2	Washer–Lock, Int
13	3296–42	10	Nut–Lock, NI
14	104–8323	1	Decal–Fuses
15	32149–7	2	Nut–Keps
16	32128–33	2	Nut–HF
17	105–0785–03	1	Support–Panel, Control
18	105–0780	1	Console Support ASM
18:2	32148–9	2	Insert–Nut
19	32151–72	4	Ring–Retaining
20	3256–3	4	Washer–Flat
21	95–9648	4	Knob

Ref. No.	Part No.	Qty.	Description
22	104–7514	1	Housing–Console
23	233–48	1	Knob
24	105–7474	1	Harness–Wire, Console
24:1	110928	1	Fuse–5 Amp
24:2	218–578	4	Fuse–10 Amp
24:3	92–3188	1	Diode–Board, Circuit
25	32105–13	2	Screw–SHH
26	3296–23	1	Nut–Lock, NI
27	3256–26	1	Washer–Flat
28	3–8596	1	Spring–Compression
29	104–7539–03	1	Bracket–Pivot
30	3–2858	1	Disc–Friction
31	104–7538	1	Throttle Lever ASM
36	104–7543	1	Stop–Lever, Lift
37	66–2920	2	Washer–Friction
38	104–8301	1	Nut–Flange, NI
39	98–7611	1	Controller–Glow
40	99–7430	7	Relay
41	283–67	1	Pin–Clevis
42	282–28	1	Clevis–Adjustable
43	3290–378	5	Tie–Cable
44	3231–22	1	Screw–CARR
45	106–7164	1	Bracket–Spring
46	3272–1	1	Pin–Cotter
47	104–7547	1	Cable–Throttle

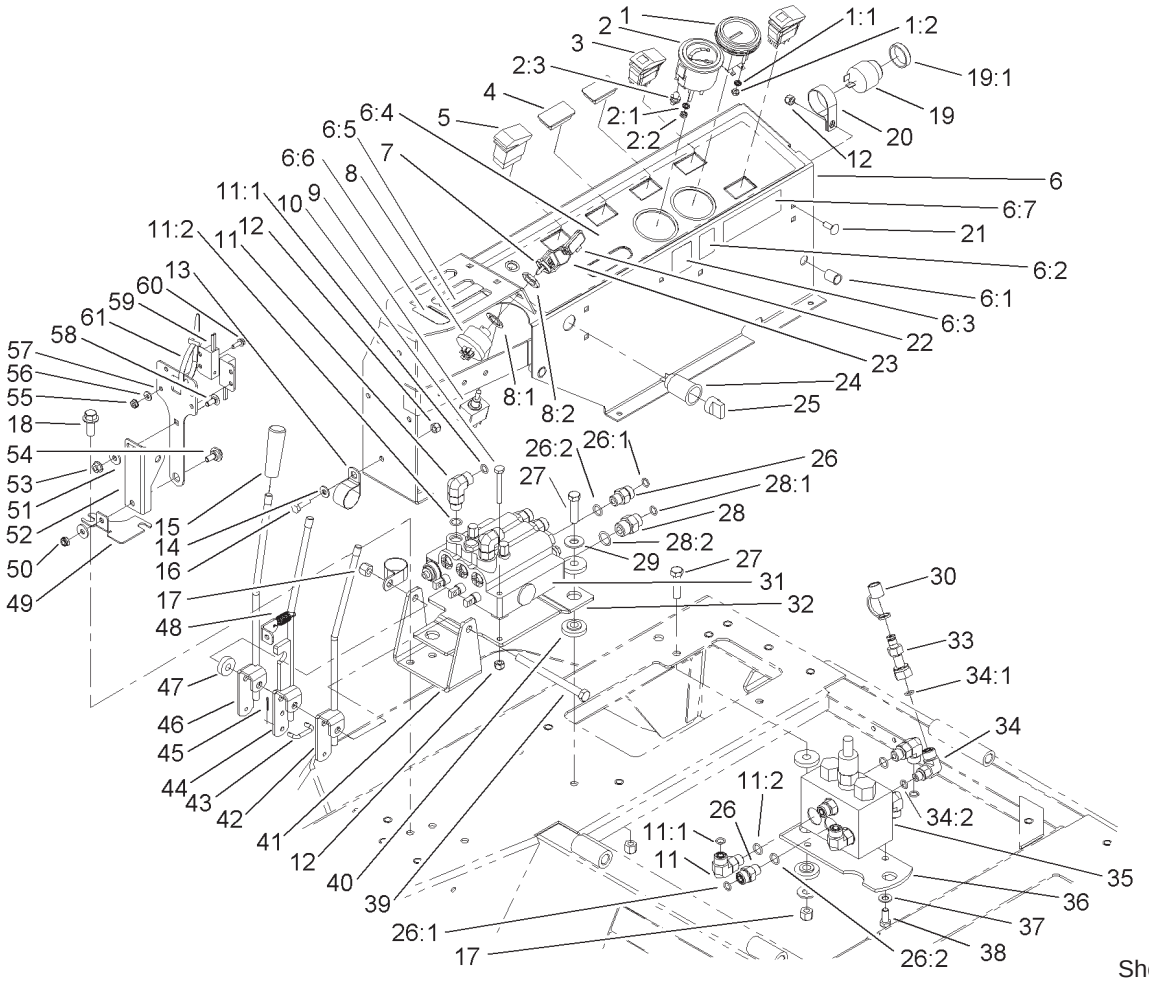


Sheet No.:10

Control Console Assembly

Ref. No.	Part No.	Qty.	Description
1	66–2950	1	Gauge–Hourmeter
1:1	3255–20	2	Washer–Lock
1:2	3217–25	2	Nut–Hex
2	98–9339	1	Gauge–Fuel
2:1	3254–1	3	Washer–Lock, Int
2:2	3217–27	3	Nut–Hex
2:3	105–9265	1	Bulb And Lamp ASM
3	100–8072	2	Switch
4	99–7420	2	Plug–Hole
5	95–8999	1	Switch
6	106–6751	1	Control Panel ASM
6:1	32148–9	2	Insert–Nut
6:2	93–7252	1	Decal
6:3	105–4674	1	Decal–Noise, Ce
6:4	106–2046	1	Decal–Panel, Control
6:5	104–8324	1	Decal–Lift
6:6	104–8325	1	Decal–Lock
6:7	104–0131	1	Decal–Ansi
7	63–8360	1	Key–Ignition
8	88–9830	1	Key Switch ASM
8:1	3254–5	1	Washer–Tooth
8:2	218–461	1	Nut–HH
9	93–5270	1	Switch–PTO
10	321–11	2	Screw–HH
11	340–77	6	Fitting–HYD, 90°
11:1	237–22	1	O–Ring

Ref. No.	Part No.	Qty.	Description
11:2	237–42	1	O–Ring
12	3296–42	4	Nut–Lock, NI
13	2412–126	2	R–Clamp
14	3256–22	1	Washer–Flat
15	233–39	3	Knob–Control
16	321–5	1	Screw–HH
17	3296–39	8	Nut–Lock, NI
18	3234–42	2	Screw–HHF
19	80–9330	1	Alarm–Audio
19:1	104–5107	1	Nut–Plastic, Knurled
20	2412–74	1	R–Clamp
21	3229–1	1	Screw–CARR
22	99–8970	1	Key–Latch, Hood
23	98–9321	1	Ring–Key
24	99–7411	1	Point–Power
25	99–7416	1	Cap
26	340–2	5	Fitting–HYD, Straight
26:1	237–22	1	O–Ring
26:2	237–42	1	O–Ring
27	323–8	5	Screw–HH
28	340–3	1	Adapter
28:1	237–22	1	O–Ring
28:2	237–79	1	O–Ring
29	3256–4	5	Washer–Flat
30	354–79	1	Cap–Dust
31	69–1780	1	Control Valve ASM

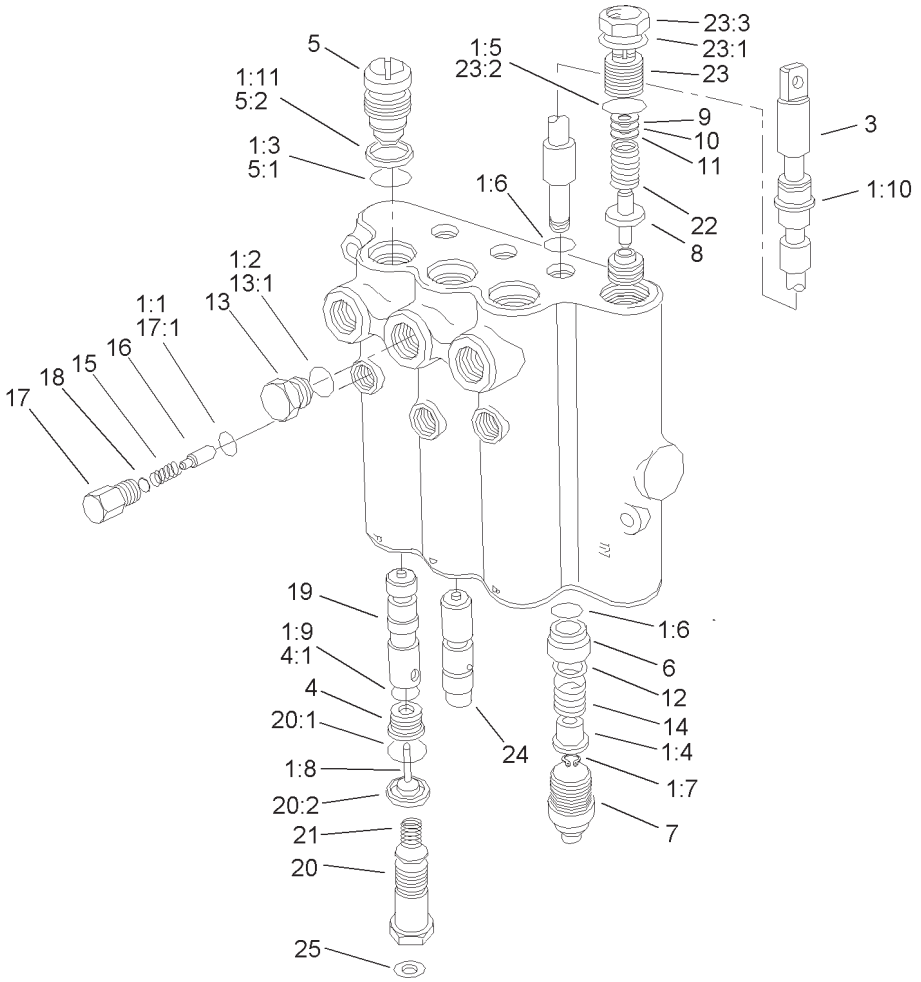


Sheet No.:10

Control Console Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
32	105–0789–03	1	Bracket–Valve
33	86–5480	1	Nipple–Test
34	340–97	1	Fitting–HYD, 90°
34:1	237–22	1	O–Ring
34:2	237–78	1	O–Ring
35	104–0788	1	Valve ASM
36	104–2231–03	1	Plate–Valve
37	3256–23	2	Washer–Flat
38	322–3	2	Screw–HH
39	323–38	1	Screw–HH
40	240–11	10	Bushing – Flange
41	105–0788–03	1	Bracket–Pivot
42	100–3123	1	LH Lever ASM
43	69–9140	3	Link–Lever, Valve
44	106–7161	1	Lever ASM
45	3272–1	6	Pin–Cotter
46	100–3121	1	RH Lever ASM
47	62–6660	1	Spacer
48	105–3938	1	Spring–Extension
49	107–0187	1	Plate–Tab
50	3296–56	1	Nut–Lock, NI
51	3256–78	2	Washer–Flat
52	107–0186	1	Bracket–Lever
53	32128–33	1	Nut–HF
54	95–1870	1	Screw–Shoulder
55	32149–7	4	Nut–Keps

Ref. No.	Part No.	Qty.	Description
56	3256–14	4	Washer–Flat
57	107–0185	1	Plate–Switch
58	3229–11	1	Screw–CARR
59	100–1270	2	Switch–Proximity
60	32105–2	4	Screw–SHWH
61	3290–378	1	Tie–Cable



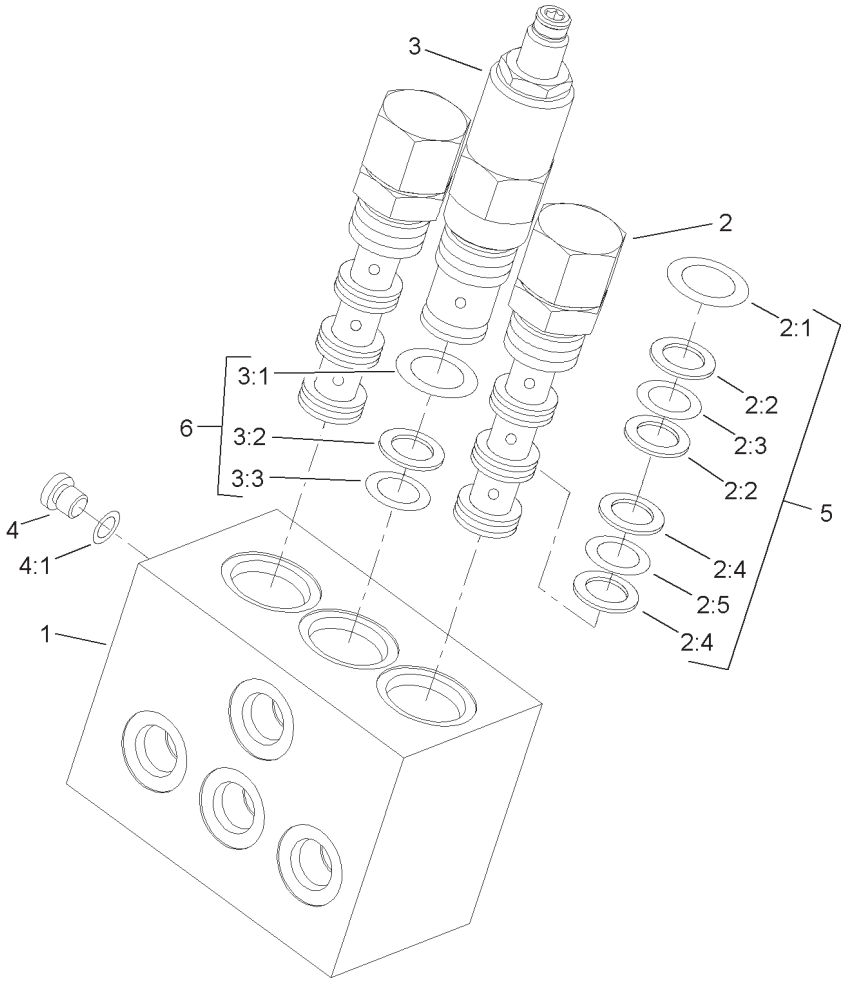
Sheet No.:B3

Control Valve Assembly No. 69–1780

Ref. No.	Part No.	Qty.	Description
1	60–3780	1	Seal Kit
1:1	58–6790	3	O–Ring
1:2	58–6720	3	O–Ring
1:3	60–5720	6	O–Ring
1:4	58–6310	6	Spacer
1:5	58–6750	1	O–Ring
1:6	58–6450	6	O–Ring
1:7	58–6460	3	Ring
1:8	58–6290	3	Poppet
1:9	58–6340	3	O–Ring
1:10	58–6320	3	Wiper
1:11	58–6370	1	Washer
☆3		1	Spool
4	58–6330	3	Seat
4:1	58–6340	1	O–Ring
5	58–6350	3	Plug
5:1	60–5720	1	O–Ring
5:2	58–6370	1	Washer
6	58–6400	3	Bushing
7	58–6420	3	Cap
8	92–2568	1	Poppet
9	58–6470	1	Washer
10	58–6480	1	Washer
11	58–6490	1	Washer
12	65–2770	3	Washer
13	58–6710	1	Plug

Ref. No.	Part No.	Qty.	Description
13:1	58–6720	1	O–Ring
14	58–6730	3	Spring
15	58–6760	3	Spring
16	58–6770	3	Plunger
17	58–6780	3	Plug
17:1	58–6790	1	O–Ring
18	60–6450	1	Disc
19	84–6420	2	Plunger
20	69–1800	3	Plug ASM
20:1	58–6360	1	O–Ring
20:2	58–6370	1	Washer
21	69–1810	3	Spring
22	106–0267	1	Spring
23	69–1830	1	Plug ASM
☆23:1		1	Washer
23:2	58–6750	1	O–Ring
☆23:3		1	Nut–Lock
24	69–1840	1	Plunger
25	105–4565	2	Plate–Orifice

☆ Not serviced separately



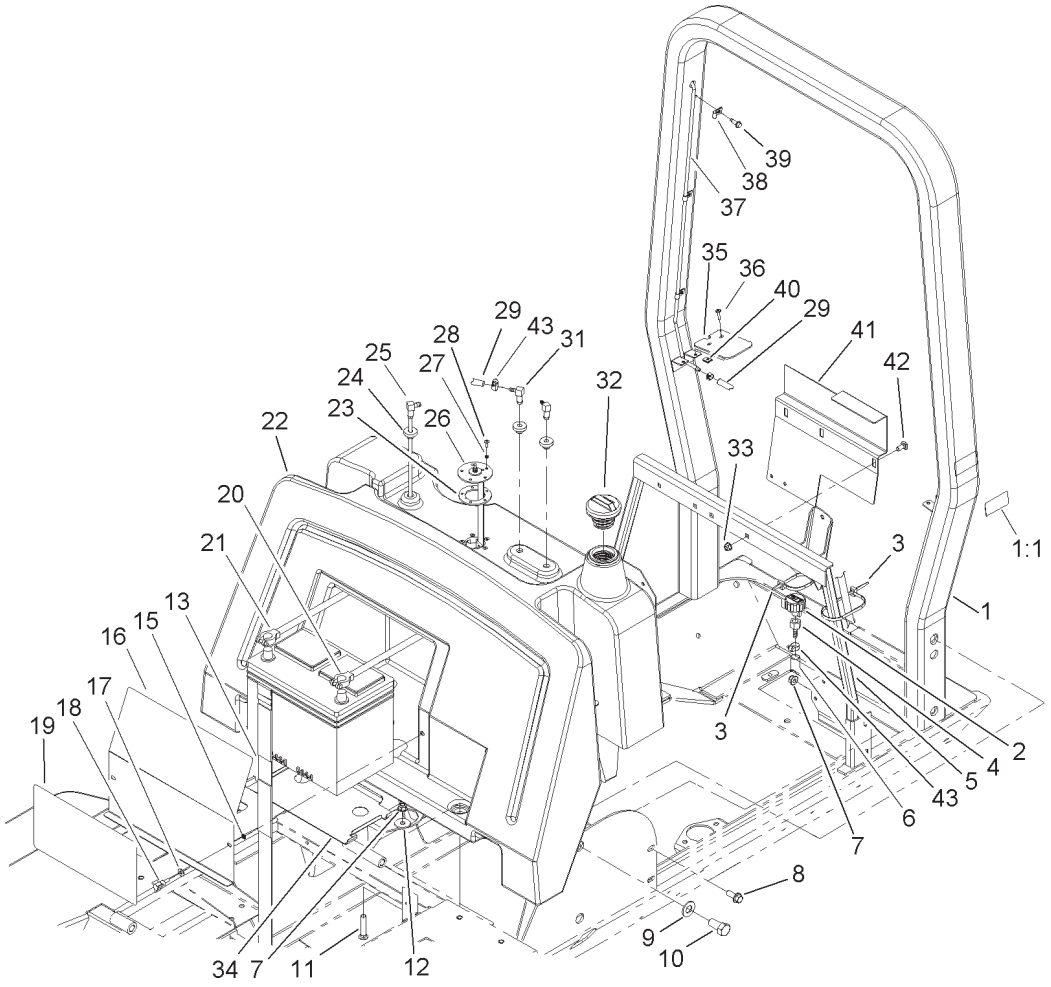
Sheet No.:B4

Valve Assembly No. 104–0788

Ref. No.	Part No.	Qty.	Description
☆1		1	Manifold
2	104–4295	2	Valve–Pilot
3	104–4296	1	Valve–Relief
4	353–991	1	Plug–Hex, Hollow
4:1	237–156	1	O–Ring
5	99–5502	2	Seal Kit
6	99–5503	1	Seal Kit

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

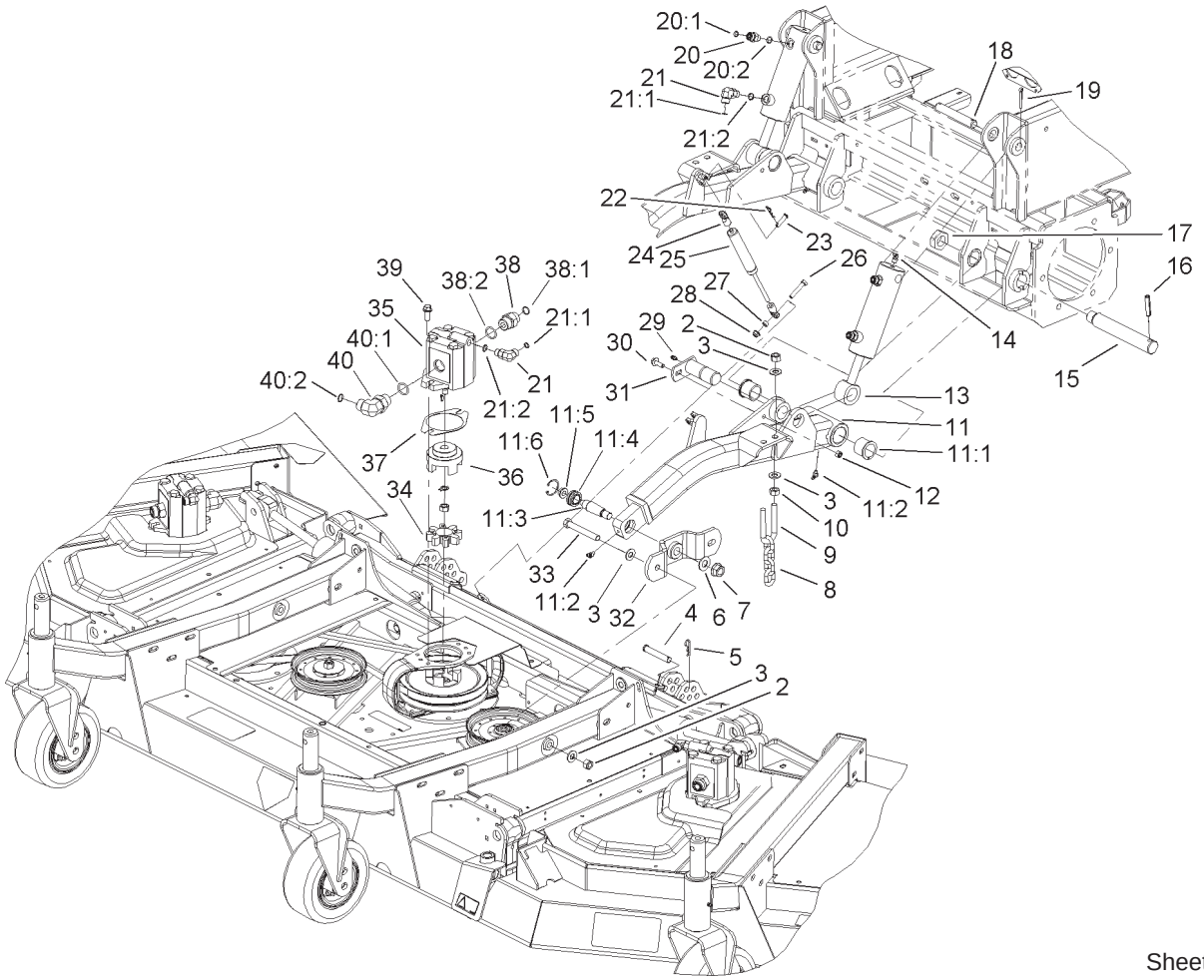


Sheet No.:11

Fuel Tank, Battery and Roll Over Protection System Assembly

Ref. No.	Part No.	Qty.	Description
1	105–2849	1	Rops ASM
1:1	105–2834	1	Decal–Rops
2	68–6150	1	Breather
3	3290–378	2	Tie–Cable
4	354–95	1	Fitting–Female, Barbed
5	104–0714–03	1	Tank Support ASM
6	95–4274	1	Hose–Fuel
7	104–8301	6	Nut–Flange, NI
8	3234–42	4	Screw–HHF
9	3256–27	4	Washer–Flat
10	327–3	4	Screw–HH
11	3231–6	2	Screw–CARR
12	63–8410	2	Washer
13	94–1445	1	Strap–Battery
15	32151–106	2	Ring–Retaining
16	104–0717–03	1	Cover–Battery
17	3256–22	2	Washer–Flat
18	233–70	2	Knob–3 Star
19	105–7358	1	Decal–Service
20	104–0761	1	Cable–Negative
21	104–0760	1	Cable–Positive
22	100–8119	1	Tank–Fuel
23	62–7650	1	Gasket

Ref. No.	Part No.	Qty.	Description
24	46–6560	3	Bushing
25	104–0701	1	Pipe–Stand
26	104–0700	1	Sender–Fuel
27	3253–15	5	Washer–Lock/Sp
28	32122–24	5	Screw–Pth
29	47–2986	1	Hose–Fuel
31	104–5228	2	Elbow–90°
32	93–3102	1	Cap–Fuel
33	104–8300	2	Nut–Flange, NI
34	105–0774–03	1	Plate–Battery
35	104–8319	2	Cover–Tank
36	3250–13	4	Screw–PPH
37	104–0718	1	Tube–Vent
38	2412–72	3	Clip–Closed, Insulated
39	32104–95	3	Screw–HWH
40	3290–191	4	Nut–Speed
41	104–2286–03	1	Bracket–Tank, Fuel
42	3230–1	2	Bolt–CARR
43	2412–108	3	Clamp–Worm

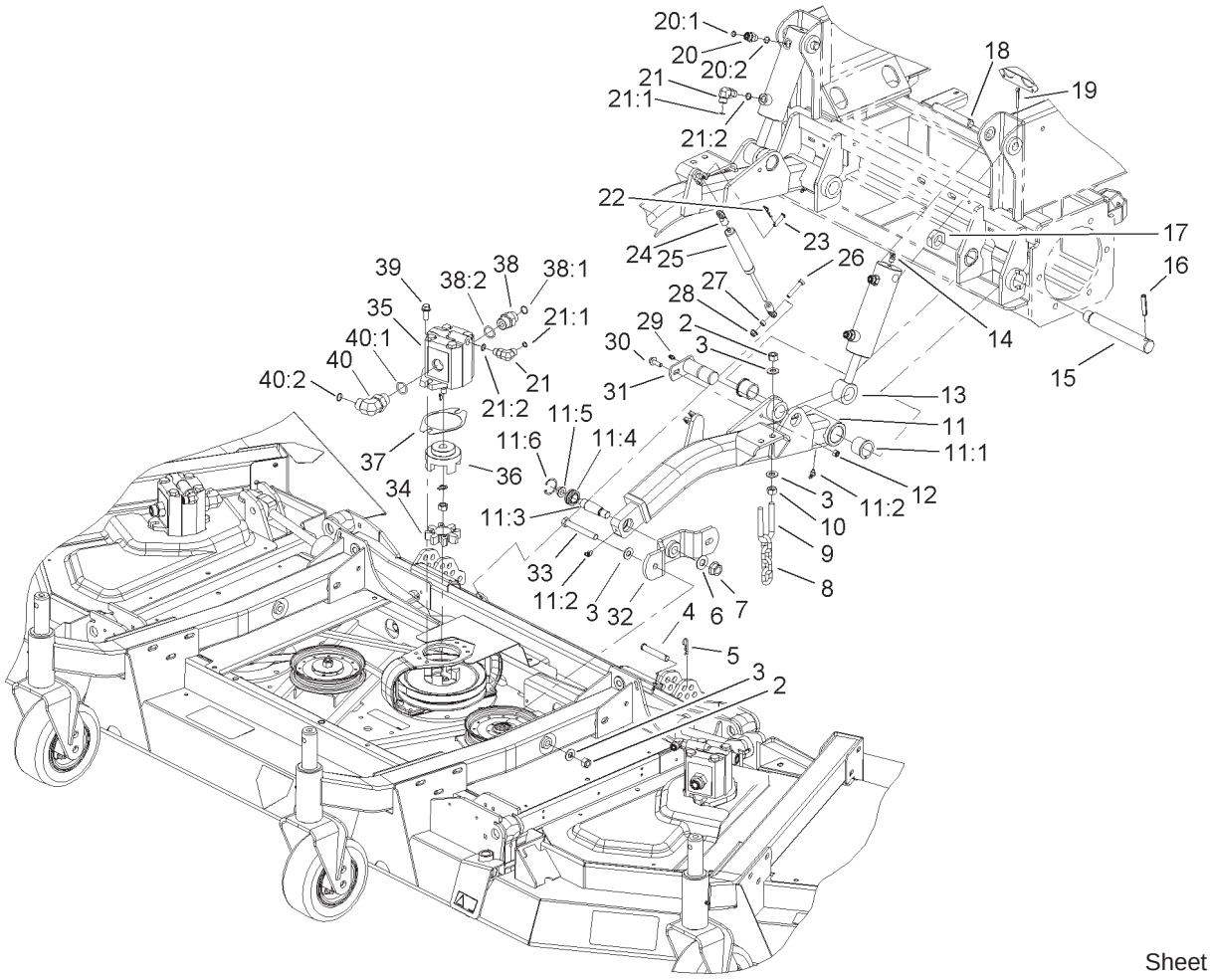


Sheet No.:12

Front Deck Lift Arm and Cylinder Assembly

Ref. No.	Part No.	Qty.	Description
2	3296–25	8	Nut–Lock, NI
3	3256–26	16	Washer–Flat
4	283–55	2	Pin–Clevis
5	3290–467	2	Pin–Hair
6	86–1440	2	Washer–Flat
7	3296–41	2	Nut–Lock, NI
8	95–6231	2	Chain–HOC
9	104–0108	2	U–Bolt
10	3217–9	4	Nut–Hex
11	105–7345	1	RH Arm ASM
11	105–7346	1	LH Arm ASM
11:1	104–0015	2	Bushing–Flange
11:2	302–11	2	Fitting–Lube, 45°
11:3	105–7468	1	Stud–Tapered
11:4	105–7441	1	Bearing–Spherical
11:5	32128–42	1	Nut–HF
11:6	32151–34	1	Ring–Retaining
12	3296–29	2	Nut–Lock, NI
13	107–0162	2	Cylinder–Hydraulic
14	302–33	2	Fitting–Grease
15	100–3017	2	Pin–Arm, Lift
16	32121–110	2	Pin–Roll, Slotted
17	3296–49	2	Nut–Lock, NI
18	105–7456	2	Pin–Pivot
19	3272–23	4	Pin–Cotter
20	340–2	3	Fitting–HYD, Straight

Ref. No.	Part No.	Qty.	Description
20:1	237–22	1	O–Ring
20:2	237–42	1	O–Ring
21	340–77	4	Fitting–HYD, 90°
21:1	237–22	1	O–Ring
21:2	237–42	1	O–Ring
22	3290–467	2	Pin–Hair
23	283–6	2	Pin–Clevis
24	104–8331	4	End–Rod, Spherical
25	105–3249	2	Damper
26	322–9	2	Screw–HH
27	92–6998	2	Spacer–Yoke, Right
28	104–8300	2	Nut–Flange, NI
29	302–5	2	Fitting–Grease
30	3234–29	2	Screw–HHF
31	105–7325	2	Pin ASM
32	106–4336–01	2	Hub Support ASM
33	325–17	4	Screw–HH
34	104–3542	3	Spider
35	99–5489	3	Motor–Gear
36	104–3541	3	Hub–Spider
37	100–5638	3	Shim–A Mount
38	340–8	3	Adapter
38:1	237–65	1	O–Ring
38:2	237–81	1	O–Ring
39	3234–42	6	Screw–HHF
40	340–139	3	Fitting–HYD, 90°

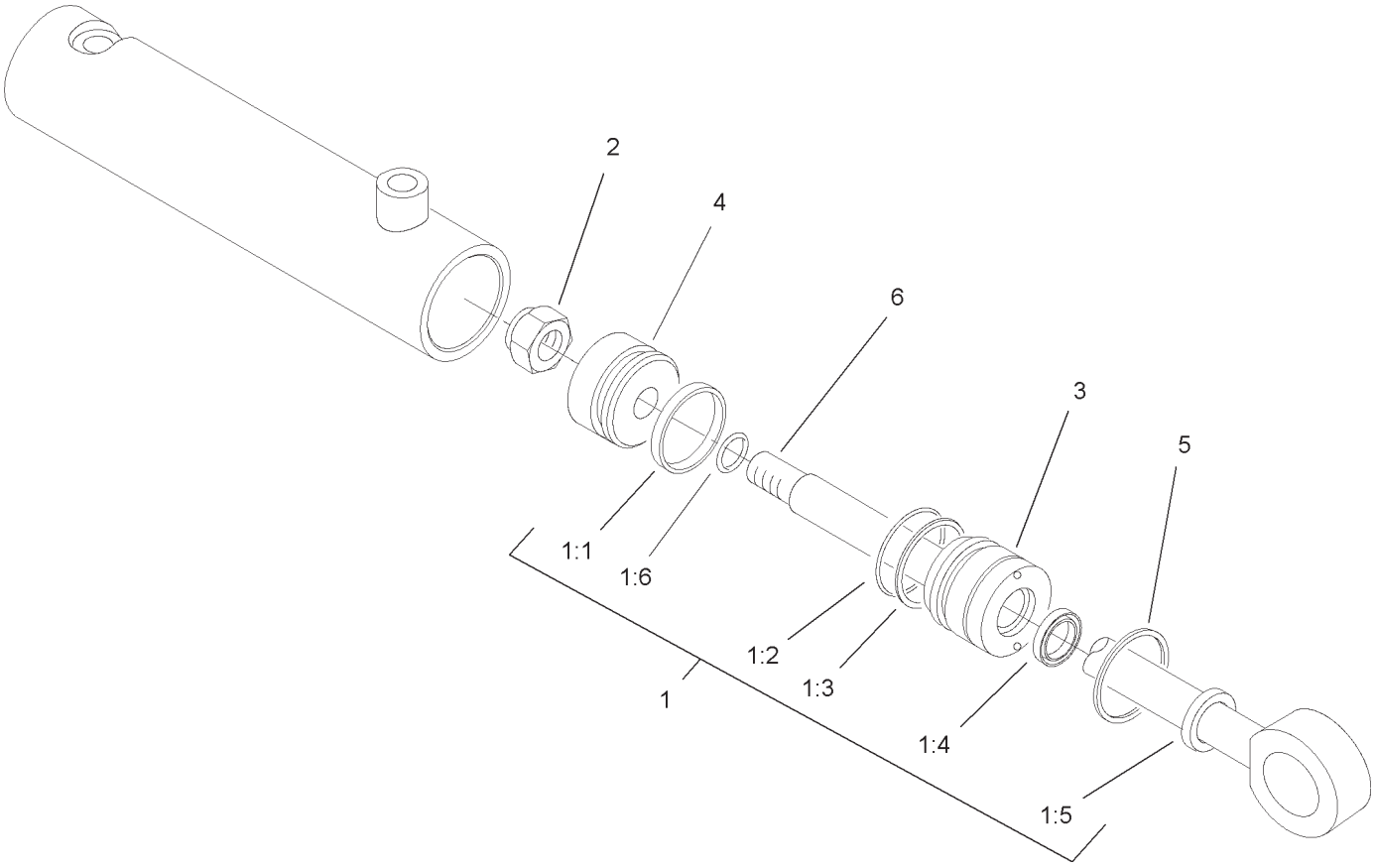


Sheet No.:12

Front Deck Lift Arm and Cylinder Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
40:1	237–81	1	O–Ring
40:2	237–65	1	O–Ring

Ref. No.	Part No.	Qty.	Description



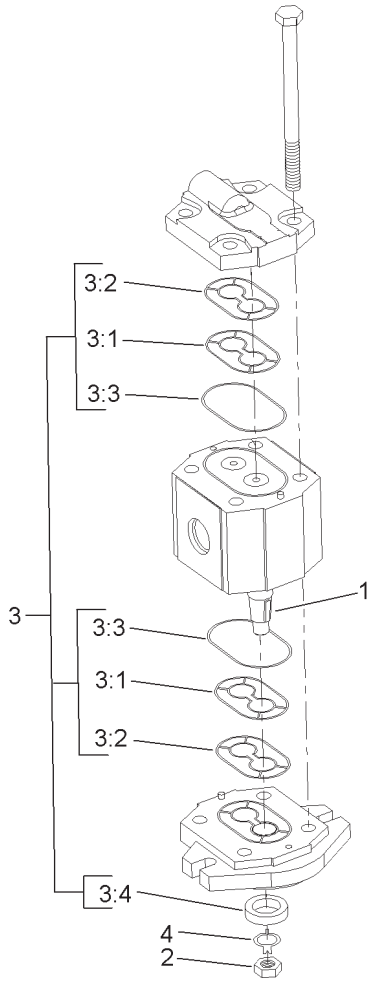
Sheet No.:B8

Hydraulic Lift Cylinder Assembly No. 107–0162

Ref. No.	Part No.	Qty.	Description
1	107–1559	1	Seal Kit
☆1:1		1	T–Seal
☆1:2		1	O–Ring
☆1:3		1	Backup
☆1:4		1	Rod Seal
☆1:5		1	Dust Seal
☆1:6		1	O–Ring
☆2		1	Nut
☆3		1	Head
☆4		1	Piston
☆5		1	Ring–Retaining
☆6		1	Shaft W/Clevis

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



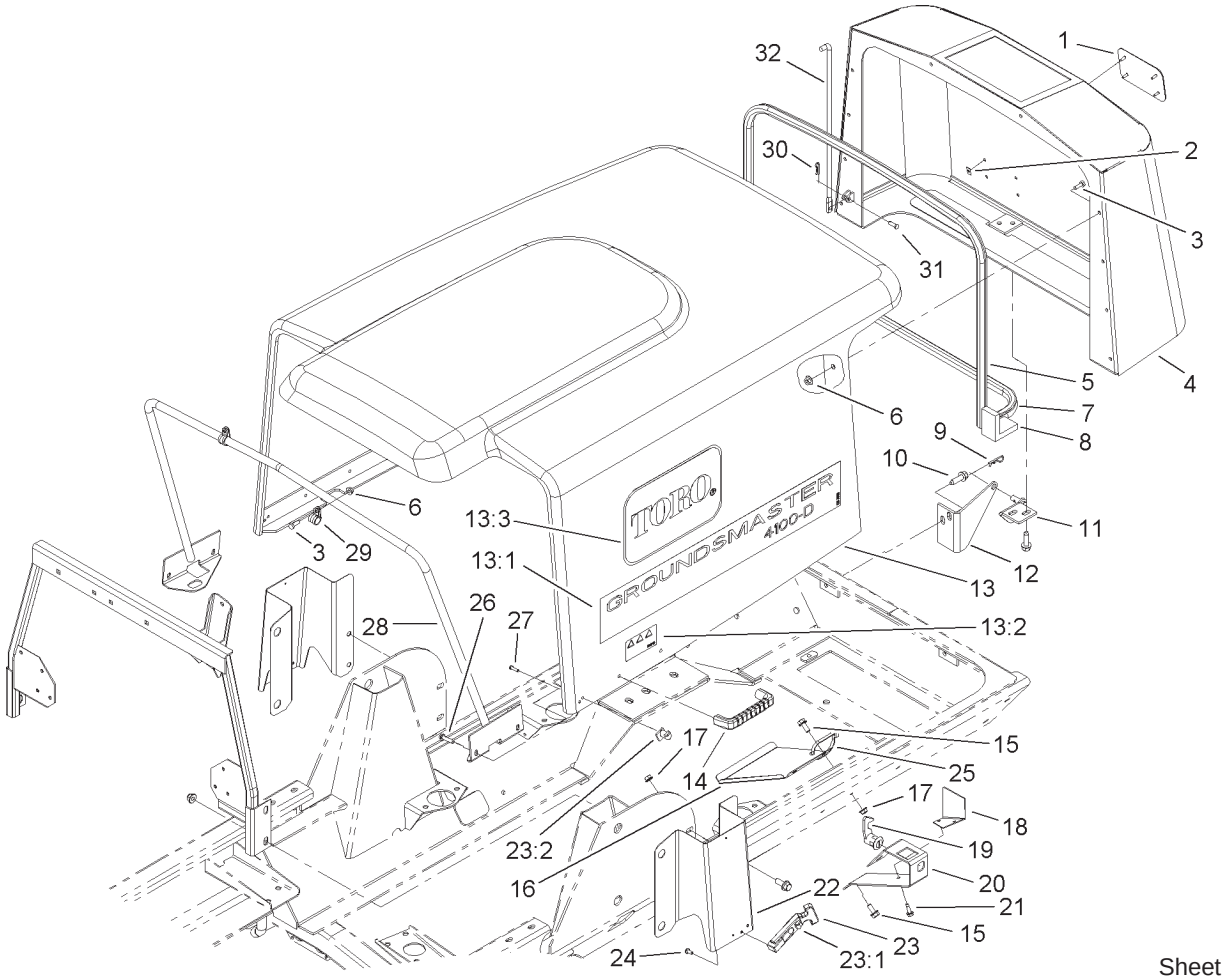
Sheet No.:B9

Gear Motor Assembly No. 99–5489

Ref. No.	Part No.	Qty.	Description
1	3257–3	1	Key–Woodruff
2	3277–1	1	Nut–Hex
3	104–4284	1	Seal Kit
☆3:1		2	Anti–Ext Ring
☆3:2		2	Seal
☆3:3		2	O–Ring
☆3:4		1	Seal–Lip, Shaft
4	104–4283	1	Washer–Tab

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

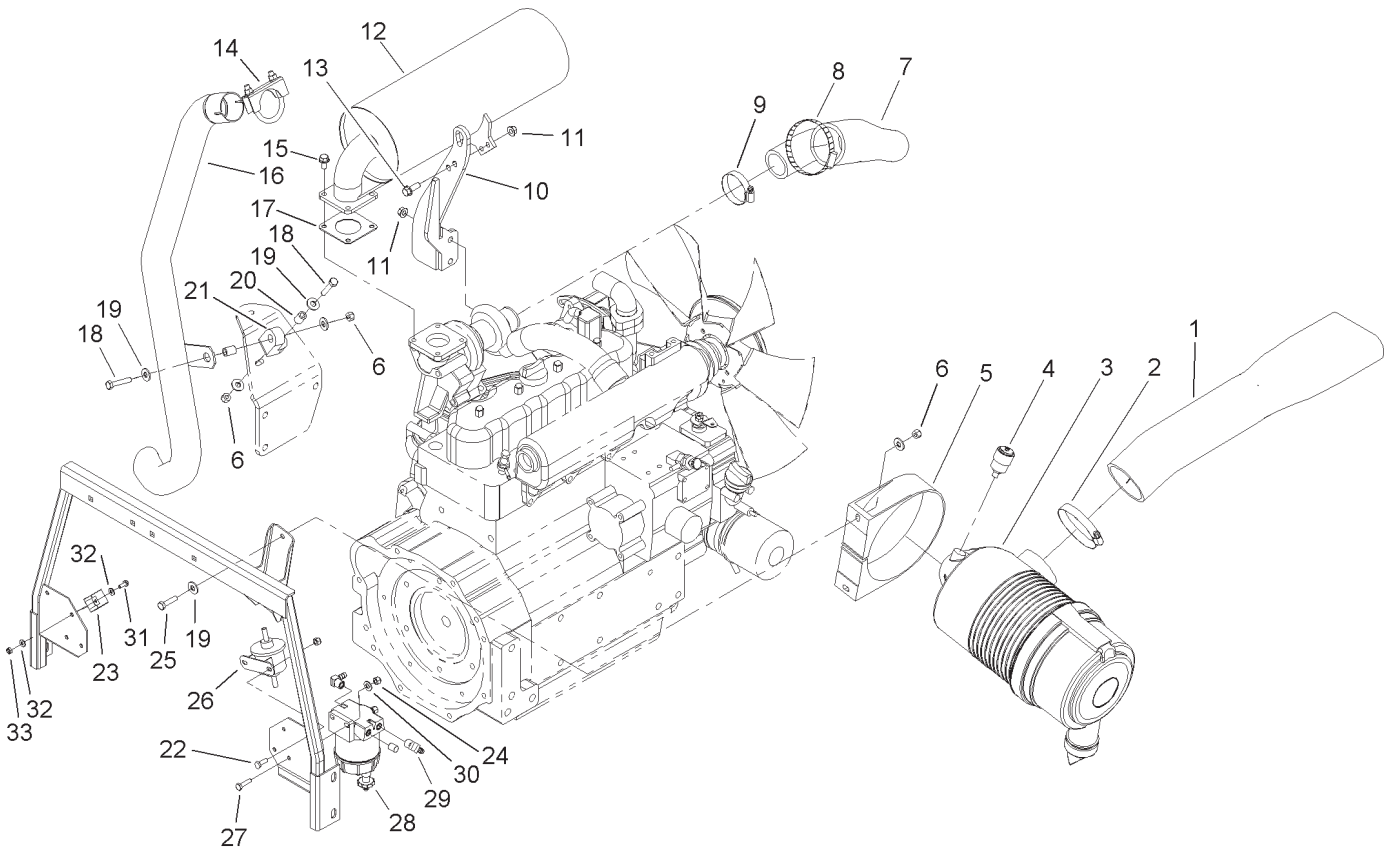


Sheet No.:15

Hood Assembly

Ref. No.	Part No.	Qty.	Description
1	93–6028	1	Plate–Logo, Toro
2	94–2638	4	Nut–Tinnerman
3	321–4	12	Screw–HH
4	100–5506–03	1	Screen ASM
5	104–2225	1	Seal–Bulb
6	32128–33	12	Nut–HF
7	104–3590	1	Seal–Bulb
8	104–3580	2	Seal–Corner, Screen
9	3290–467	2	Pin–Hair
10	32144–109	8	Screw
11	104–3589	2	Screen Pivot ASM
12	104–3588–03	2	Pivot–Screen
13	105–7359	1	Hood ASM
13:1	105–7360	2	Decal–Hood
13:2	106–6754	1	Decal–Danger
13:3	66–1210	2	Decal
14	65–5100	2	Handle–Door
15	3234–5	4	Screw
16	104–3560–03	1	Deflector–Filter, Oil
17	32128–20	4	Nut–HF
18	105–4531	1	Cover–Latch
19	98–5398	1	Latch
20	104–3591–03	1	Bracket–Latch, Hood
21	32104–95	2	Screw–HWH
22	105–7466–03	1	Bracket–Latch, RH
22	105–7467–03	1	Bracket–Latch, LH

Ref. No.	Part No.	Qty.	Description
23	94–5626	2	Latch–Draw, Flexible
23:1	100–5806	1	Handle–Latch
23:2	100–5807	1	Keeper–Latch
24	32144–1	4	Screw–Taptite
25	3290–378	1	Tie–Cable
26	46–8092	4	Screw–Plastite
27	32104–4	2	Screw
28	104–3505–03	1	Hood Support ASM
29	2412–134	2	R–Clamp
30	3290–307	1	Pin–Hair
31	283–67	1	Pin–Clevis
32	104–8313	1	Rod–Hood



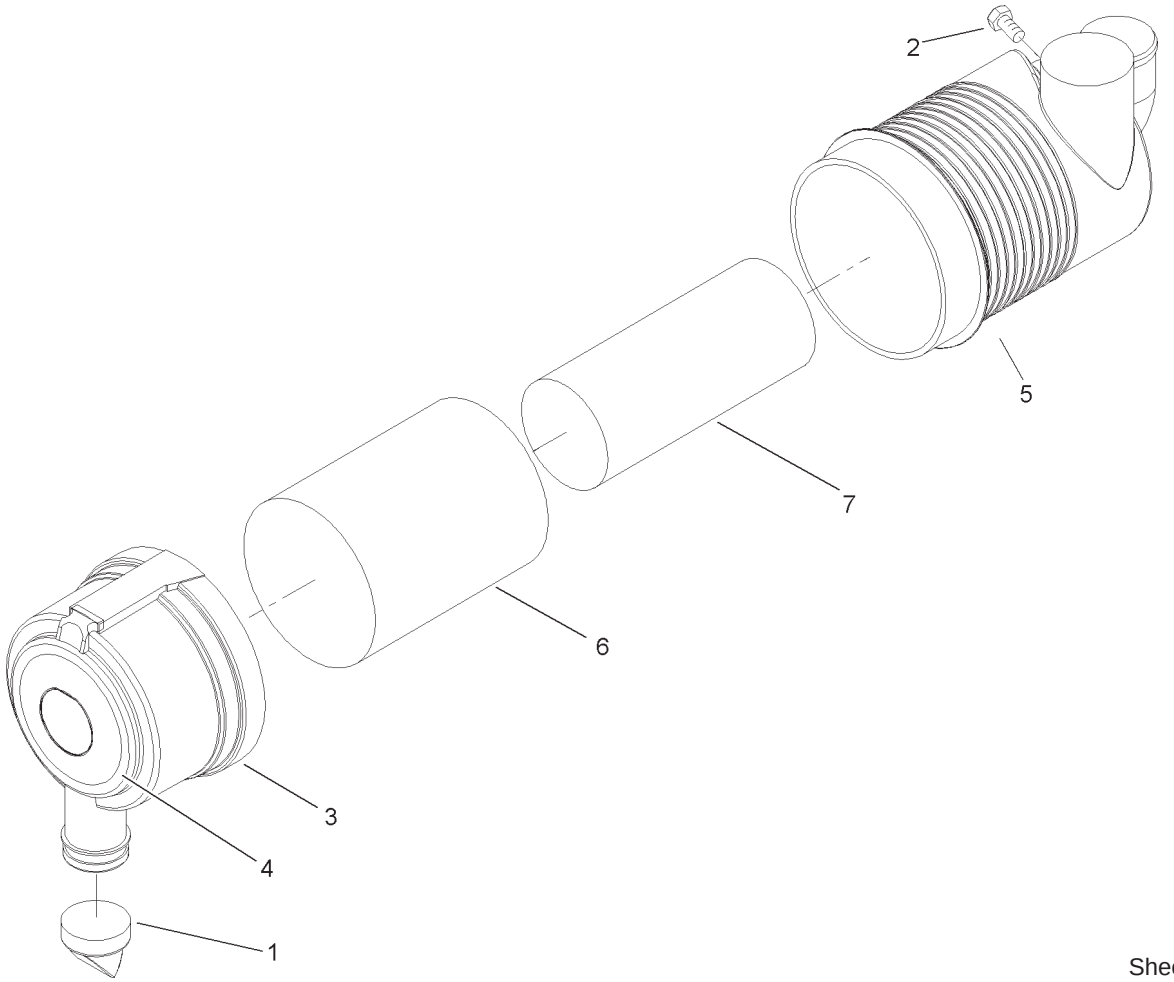
Sheet No.:16

Air Cleaner and Muffler Assembly

Ref. No.	Part No.	Qty.	Description
1	100–5550	1	Hose–Cleaner, Air
2	2412–125	1	Clamp–Hose
3	99–5410	1	Cleaner–Air
4	104–3563	1	Indicator
*4:1	94–1416	1	Indicator Adapter ASM
5	99–5414	1	Strap–Cleaner, Air
6	3296–29	4	Nut–Lock, NI
7	99–5415	1	Hose–Cleaner, Air
8	2412–110	1	Clamp–Hose
9	2412–92	1	Clamp–Hose
10	99–5421–03	1	Bracket–Mounting
11	33004–00	4	Nut–HF
12	99–5424	1	Muffler–Turbo
13	33104–025	2	Screw–HHF
14	18–2130	1	Clamp
15	33104–016	4	Screw–HHF
16	100–5610	1	Pipe–Exhaust
17	100–9333	1	Gasket–Muffler
18	322–9	2	Screw–HH
19	3256–3	8	Washer–Flat
20	93–5023	2	Spacer
21	95–5622	1	Hanger–Rubber
22	321–6	2	Screw–HH
23	99–7435	1	Relay–Power
24	3296–42	4	Nut–Lock, NI
25	322–6	2	Screw–HH

Ref. No.	Part No.	Qty.	Description
26	107–0122	1	Pump–Fuel, Electric
27	321–4	2	Screw–HH
28	98–9305	1	Water/Fuel Filter ASM
29	353–781	2	Fitting–Elbow
30	3256–22	2	Washer–Flat
31	32105–2	1	Screw–SHWH
32	3256–14	2	Washer–Flat
33	3296–2	1	Nut–Lock

* Not illustrated



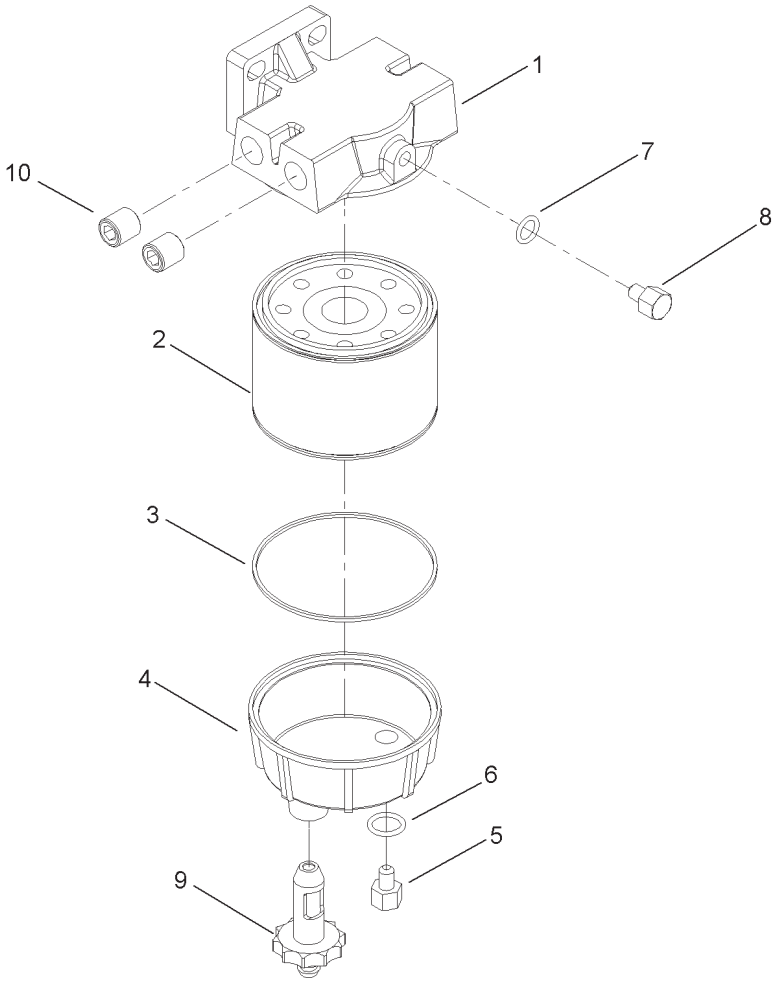
Sheet No.:C1

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

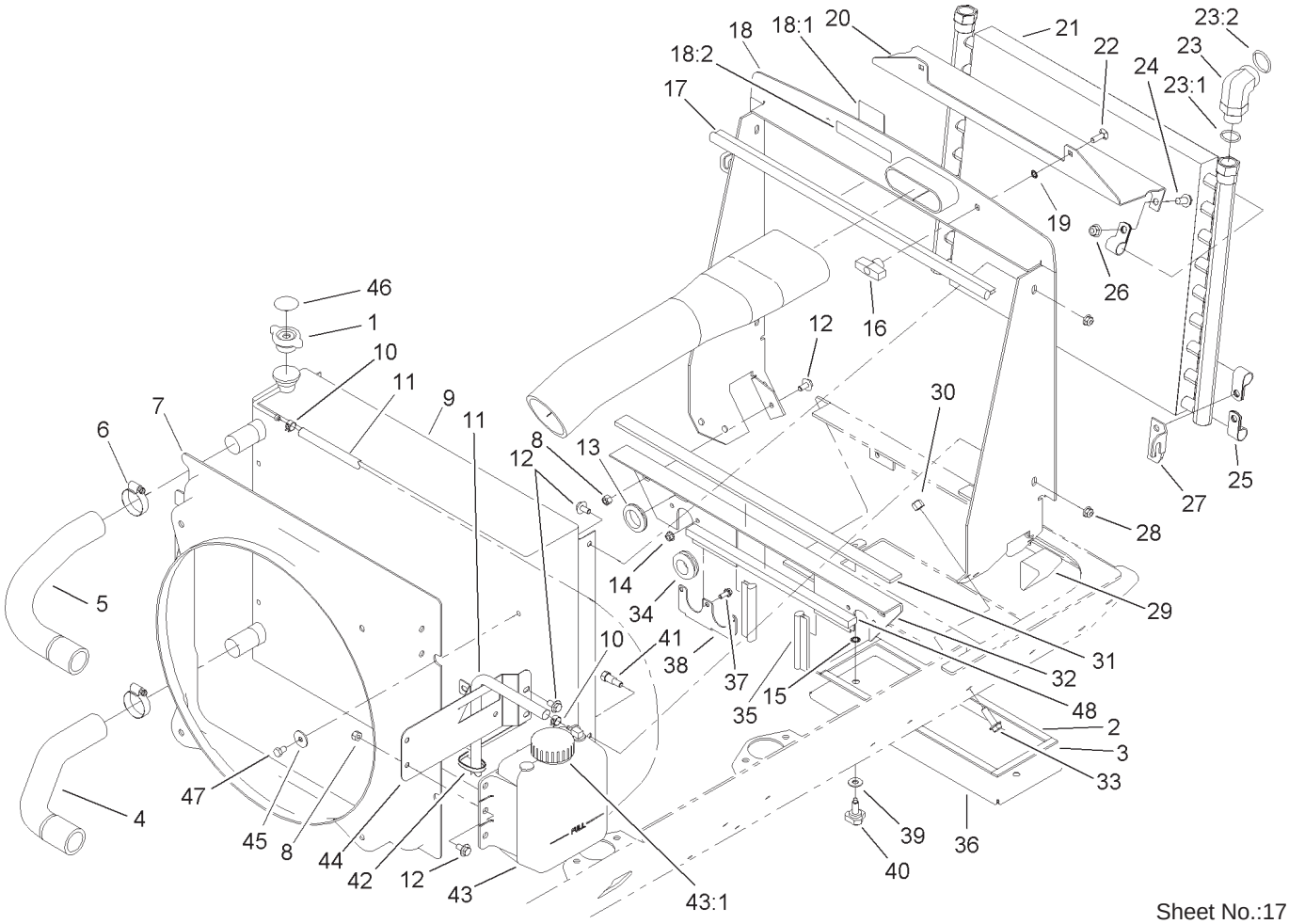


Sheet No.:C2

Water/Fuel Filter Assembly No. 98–9305

Ref. No.	Part No.	Qty.	Description
1	98–9772	1	Head–Filter
2	98–9764	1	Element
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
10	285–22	2	Plug–Pipe

Ref. No.	Part No.	Qty.	Description

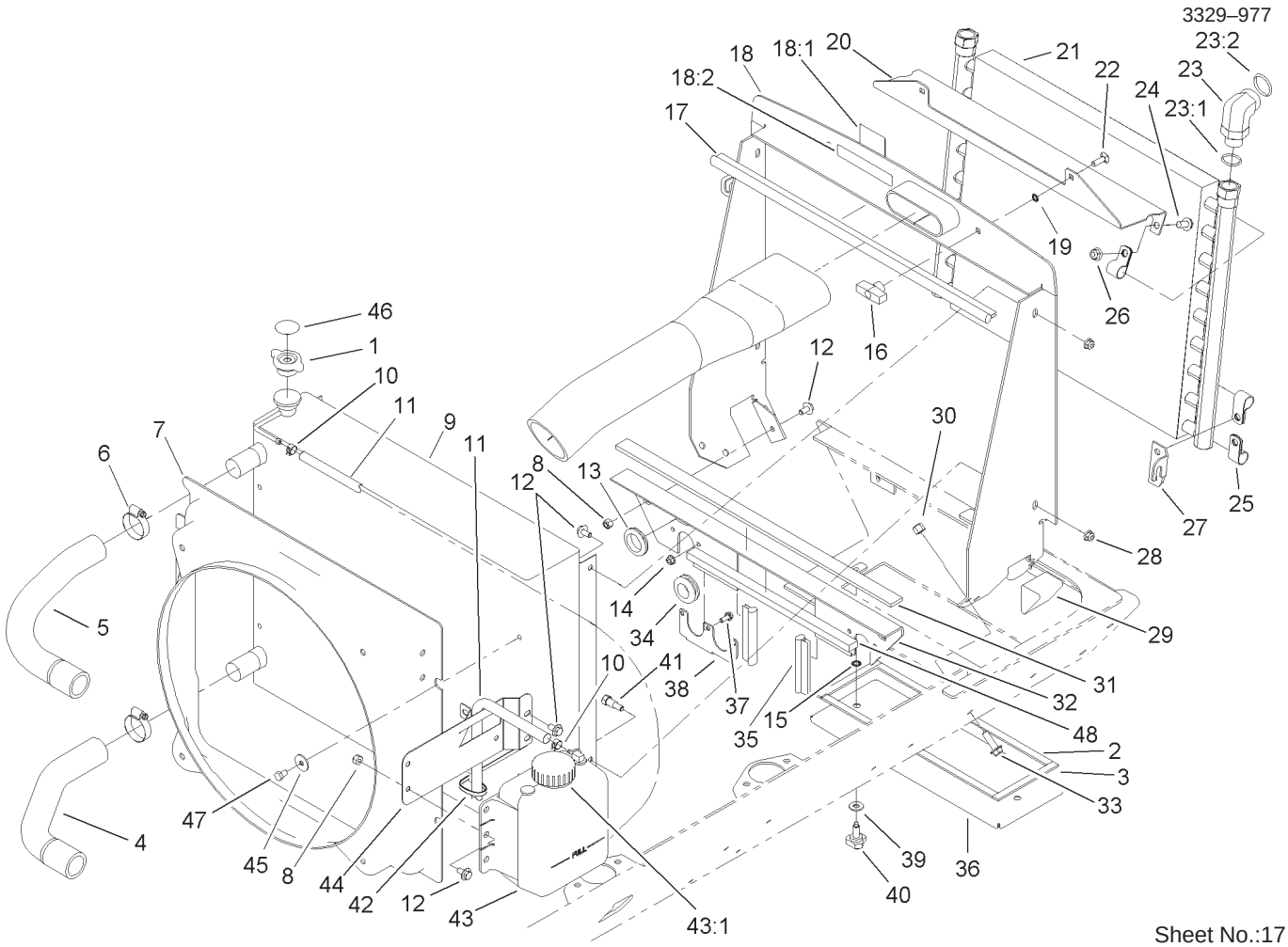


Sheet No.:17

Radiator and Oil Cooler Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5957	1	Cap–Radiator
2	105–0777	2	Strip–Foam
3	105–0778	2	Strip–Foam
4	100–5546	1	Hose–Radiator, Lower
5	100–5547	1	Hose–Radiator
6	2412–111	4	Clamp
7	99–5428	1	Shroud–Radiator
8	3296–29	5	Nut–Lock, NI
9	99–5426	1	Radiator
10	92–2379	3	Clamp–Hose
11	71–3370	2	Hose
12	3234–7	10	Screw–HHF
13	240–3	1	Grommet–Rubber
14	32128–33	4	Nut–HF
15	32151–72	2	Ring–Retaining
16	98–7134	2	Knob–Handle
17	104–2223	1	Seal–Bulb
18	105–0757	1	Radiator Support ASM
18:1	93–7275	1	Decal–Fluid, Starting
18:2	93–7272	3	Decal–Warning
19	104–8310	2	Ring–Retaining
20	104–7522–03	1	Bracket–Cooler, Oil
21	99–5495	1	Cooler–Oil
22	3230–22	2	Screw–CARR
23	104–3796	2	Fitting–HYD, 90°
23:1	237–81	1	O–Ring

Ref. No.	Part No.	Qty.	Description
23:2	340–65	1	O–Ring
24	3234–1	6	Screw–HHF
25	2412–81	6	Clamp–R
26	104–8301	6	Nut–Flange, NI
27	100–3078–03	1	Bracket–Cooler, LH
27	100–3077–03	1	Bracket–Cooler, RH
28	104–8300	4	Nut–Flange, NI
29	93–5954	2	Foam–Plug
30	3296–39	4	Nut–Lock, NI
31	104–2226	1	Strip–Foam
32	99–5517–03	1	Support–Lower
33	3234–24	4	Screw–HHF
34	104–2224	2	Seal–Bulb
35	237–165	2	Grommet
36	104–2287–03	1	Cover–Frame
37	3234–33	4	Screw–HHF
38	106–6773–03	2	Plate
39	3256–3	2	Washer–Flat
40	95–9648	2	Knob
41	28–0540	2	Bolt–Shoulder
42	3290–378	1	Tie–Cable
43	104–2276	1	Reservior–Coolant
43:1	87–7050	1	Cap–Reservoir
44	100–5505–03	1	Bracket–Tank
45	3256–82	4	Washer–Flat
46	106–6755	1	Decal–Cap, Radiator

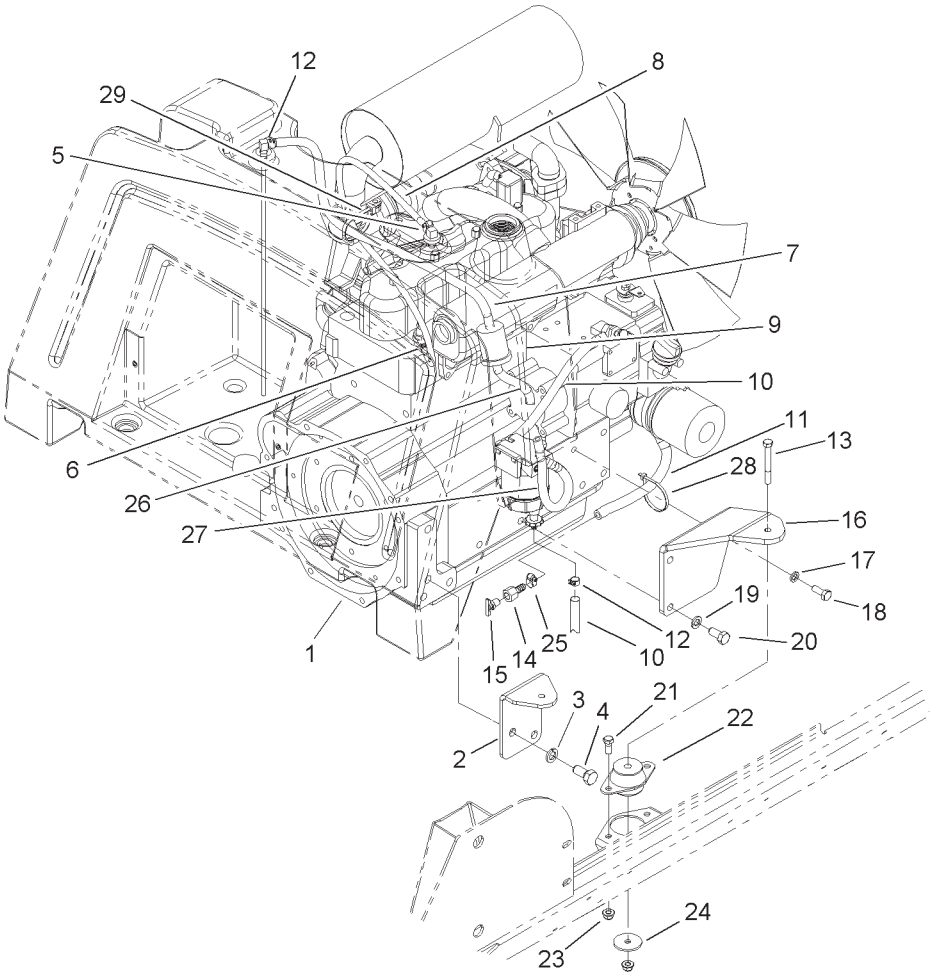


Sheet No.:17

Radiator and Oil Cooler Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
47	322–1	4	Screw–HH
48	95–4231	1	Foam–Seal, Side Screen

Ref. No.	Part No.	Qty.	Description

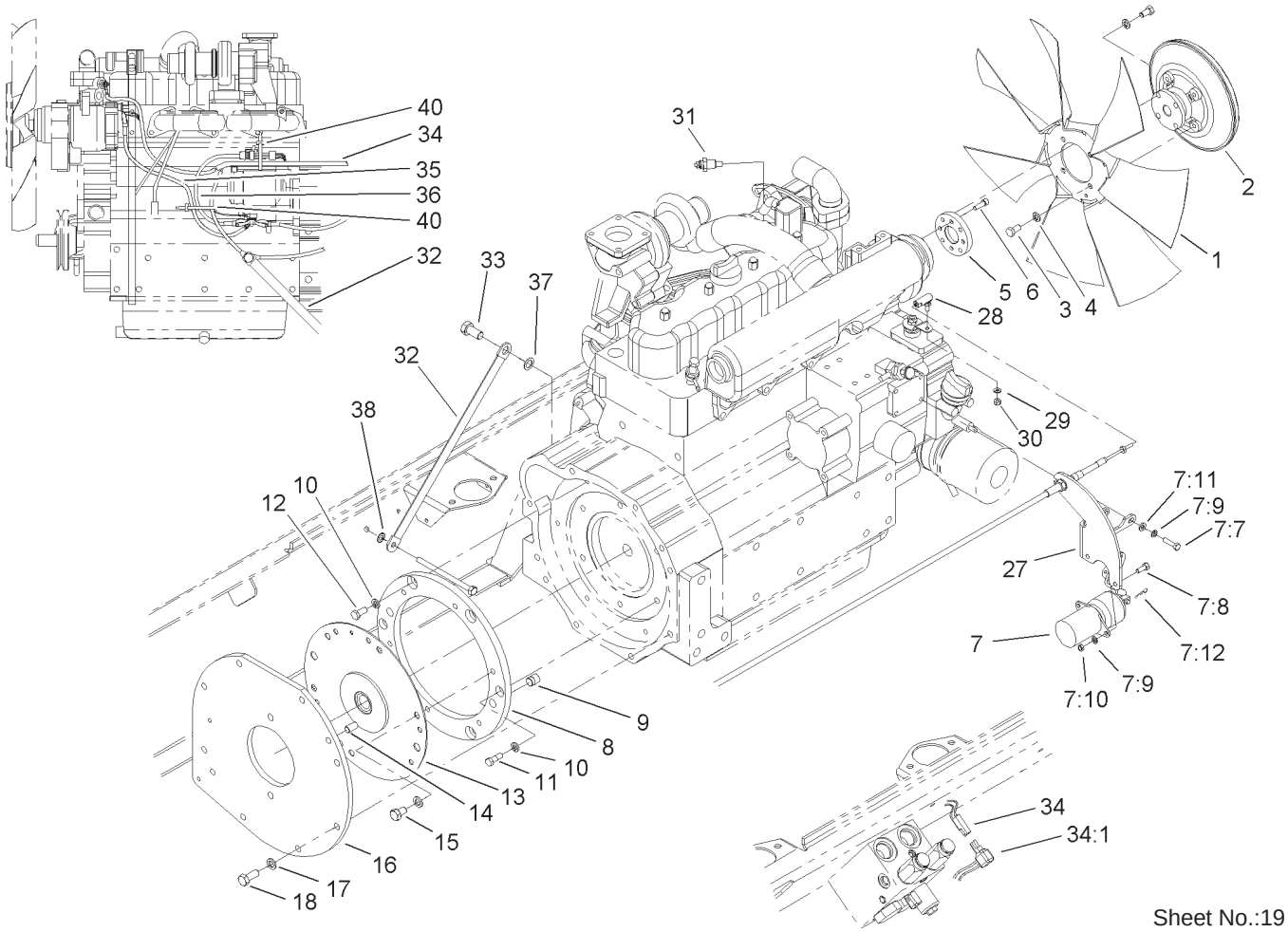


Sheet No.:18

Engine and Mount Assembly

Ref. No.	Part No.	Qty.	Description
1	99–5413	1	Engine–Turbo, Kubota
2	100–3147–03	1	Mount–Engine, LH
2	100–3148–03	1	Mount–Engine, RH
3	43–5950	4	Washer–Lock, Spring
4	43–3210	4	Screw–HH
5	2412–108	1	Clamp–Worm
6	2412–80	1	Clamp–Line, Fuel
7	63–7630	1	Hose–Fuel
8	75–4706	1	Hose–Fuel
9	98–7612	1	Filter–Fuel
10	19–3250	2	Hose–Fuel
11	99–7376	1	Hose–Breather
12	92–2379	9	Clamp–Hose
13	323–14	4	Screw–HH
14	354–94	1	Fitting–Female, Barbed
15	93–5528	1	Fitting–Cock, Drain
16	106–2048–03	1	Mount–Engine, RH
16	106–2049–03	1	Mount–Engine, LH
17	48–9590	1	Washer–Lock
18	43–0090	1	Screw–HH
19	48–8070	5	Washer–Lock
20	42–9250	5	Bolt
21	323–5	8	Screw–HH
22	53–9682	4	Support–Engine, Rubber

Ref. No.	Part No.	Qty.	Description
23	104–8301	12	Nut–Flange, NI
24	63–7400	4	Washer–Rebound
25	2412–108	2	Clamp–Worm
26	27–5350	1	Hose–Fuel
27	63–9640	1	Hose
28	3290–379	1	Tie–Cable
29	3290–378	1	Tie–Cable

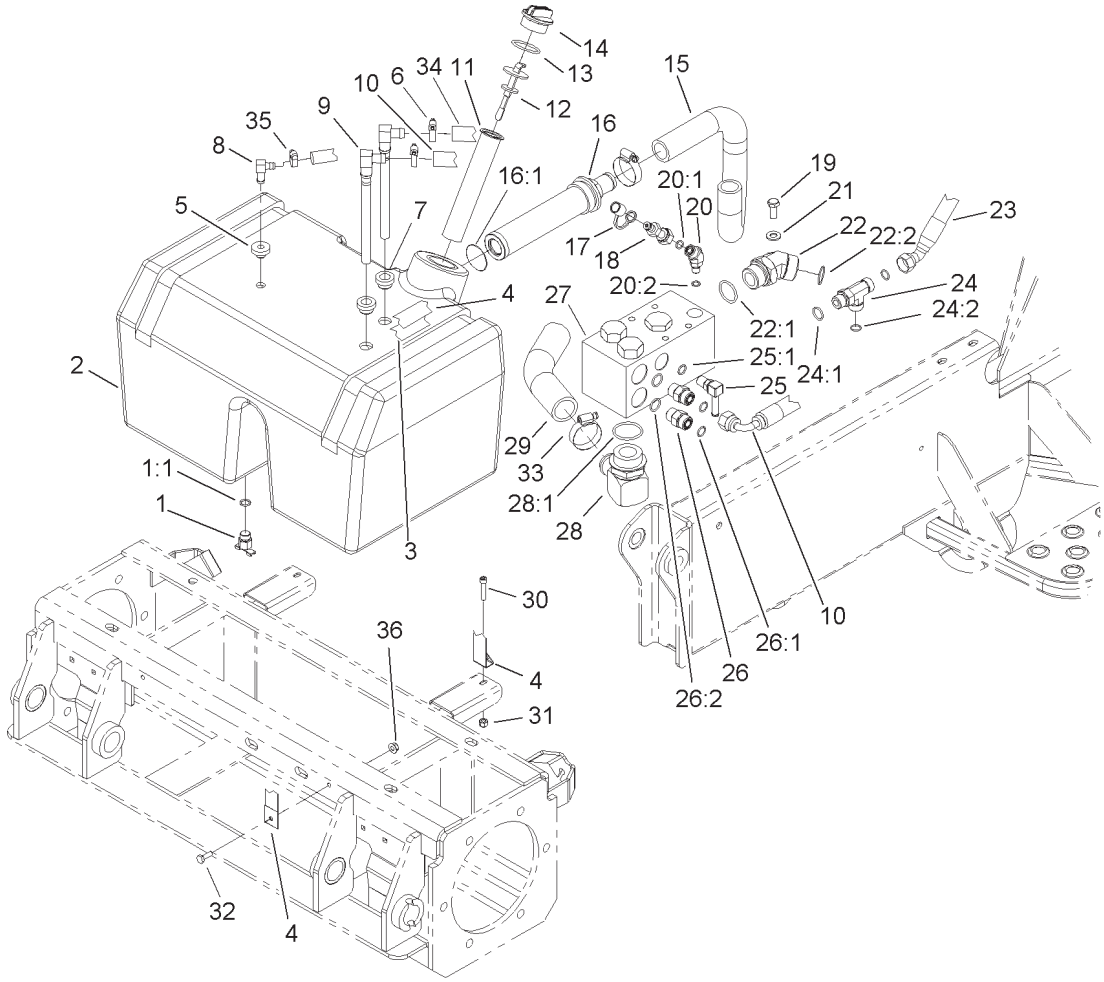


Sheet No.:19

Fan Drive and Flywheel Assembly

Ref. No.	Part No.	Qty.	Description
1	105–0750	1	Fan
2	104–2212	1	Clutch–Fan
3	322–2	8	Screw–HH
4	3253–4	8	Washer–Lock
5	100–3066	1	Adapter–Fan
6	52–6290	4	Screw–HSH
7	98–3817	1	Solenoid Kit
7:7	33113–025	3	Screw–HH
7:8	33113–016	2	Screw–HH
7:9	48–8020	5	Washer–Spring
7:10	33013–00	2	Nut–Hex
7:11	33093–00	3	Washer–Flat
7:12	3272–2	1	Pin–Cotter
8	100–5633	1	Spacer–Coupling
9	58–3590	2	Dowel
10	3253–4	6	Washer–Lock
11	100–5634	2	Bolt–Shoulder
12	33114–020	4	Screw–HH
13	92–1753	1	Coupling–Spring
14	98–1212	2	Pin–Plate, Pump
15	70–8470	6	Screw–HH
16	100–5632–03	1	Plate–Adapter
17	48–9590	14	Washer–Lock
18	43–0090	8	Screw–HH
27	104–7540–03	1	Support–Cable
28	2411–38	1	Joint–Ball

Ref. No.	Part No.	Qty.	Description
29	3256–51	1	Washer–Flat
30	3296–21	1	Nut–Lock, NI
31	98–9346	1	Sender–Temperature
32	18–2770	1	Cable–Ground
33	42–9250	1	Bolt
34	105–7475	1	Harness–Wire, Rear
34:1	100–4918	3	Diode
35	100–5552	1	Harness–Wire
36	99–3441	1	Harness–Wire, Fusible Link
37	3255–2	1	Washer–Lock/Ext
38	3255–8	1	Washer–Lock
40	3290–378	2	Tie–Cable

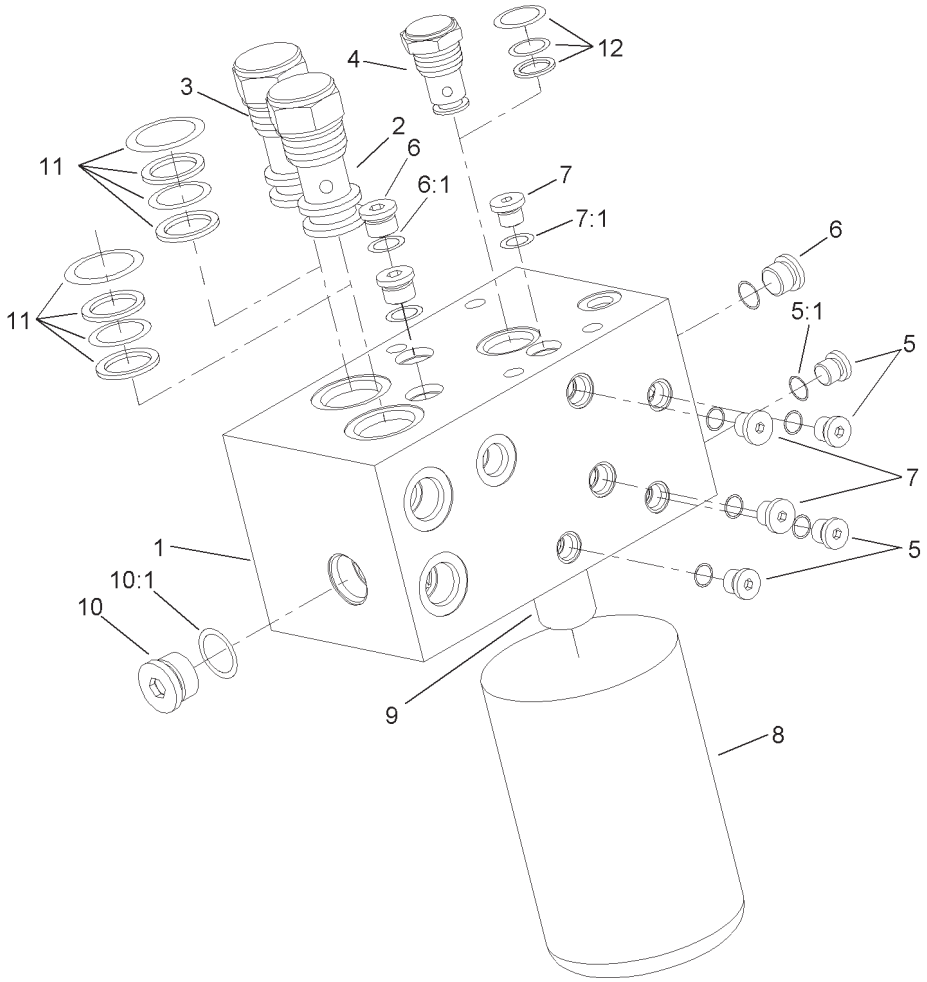


Sheet No.:20

Hydraulic Reservoir and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	104–8334	1	Petcock
1:1	237–42	1	O–Ring
2	104–0703	1	Reservoir–HYD
3	93–5273	2	Strap–Felt
4	104–0794	2	Strap
5	46–6560	1	Bushing
6	2412–36	2	Clamp–Hose
7	104–0790	2	Bushing
8	46–6550	1	Fitting–HYD, 90°
9	104–0791	2	Pipe–Stand
10	100–5522	1	Hose ASM
11	61–2790	1	Filter–Screen
12	105–2812	1	Dipstick ASM
13	94–8166	1	O–Ring
14	93–7498	1	Plug–Plastic
15	100–5528	1	Hose–Suction
16	104–7546	1	Strainer–Tank
16:1	340–136	1	O–Ring
17	354–79	1	Cap–Dust
18	86–5480	1	Nipple–Test
19	323–5	3	Screw–HH
20	340–54	1	Elbow–45°
20:1	237–22	1	O–Ring
20:2	237–78	1	O–Ring
21	3256–24	3	Washer–Flat
22	104–3509	1	Fitting–HYD, 45°

Ref. No.	Part No.	Qty.	Description
22:1	237–146	1	O–Ring
22:2	340–65	1	O–Ring
23	100–5521	1	Hose ASM
24	340–109	1	Fitting–HYD, Tee
24:1	237–79	1	O–Ring
24:2	237–30	2	O–Ring
25	354–135	1	Fitting–HYD, 90°
25:1	237–42	1	O–Ring
26	340–4	2	Fitting–HYD, Sraight
26:1	237–30	1	O–Ring
26:2	237–79	1	O–Ring
27	100–5558	1	Manifold–Filter
28	92–7526	1	Fitting–HYD, 90°
28:1	237–101	1	O–Ring
29	104–0728	1	Hose–Filter
30	3274–51	2	Screw–HSH
31	3296–42	2	Nut–Lock, NI
32	321–4	2	Screw–HH
33	2412–111	2	Clamp
34	100–5592	1	Hose
35	2412–108	1	Clamp–Worm
36	32128–33	2	Nut–HF



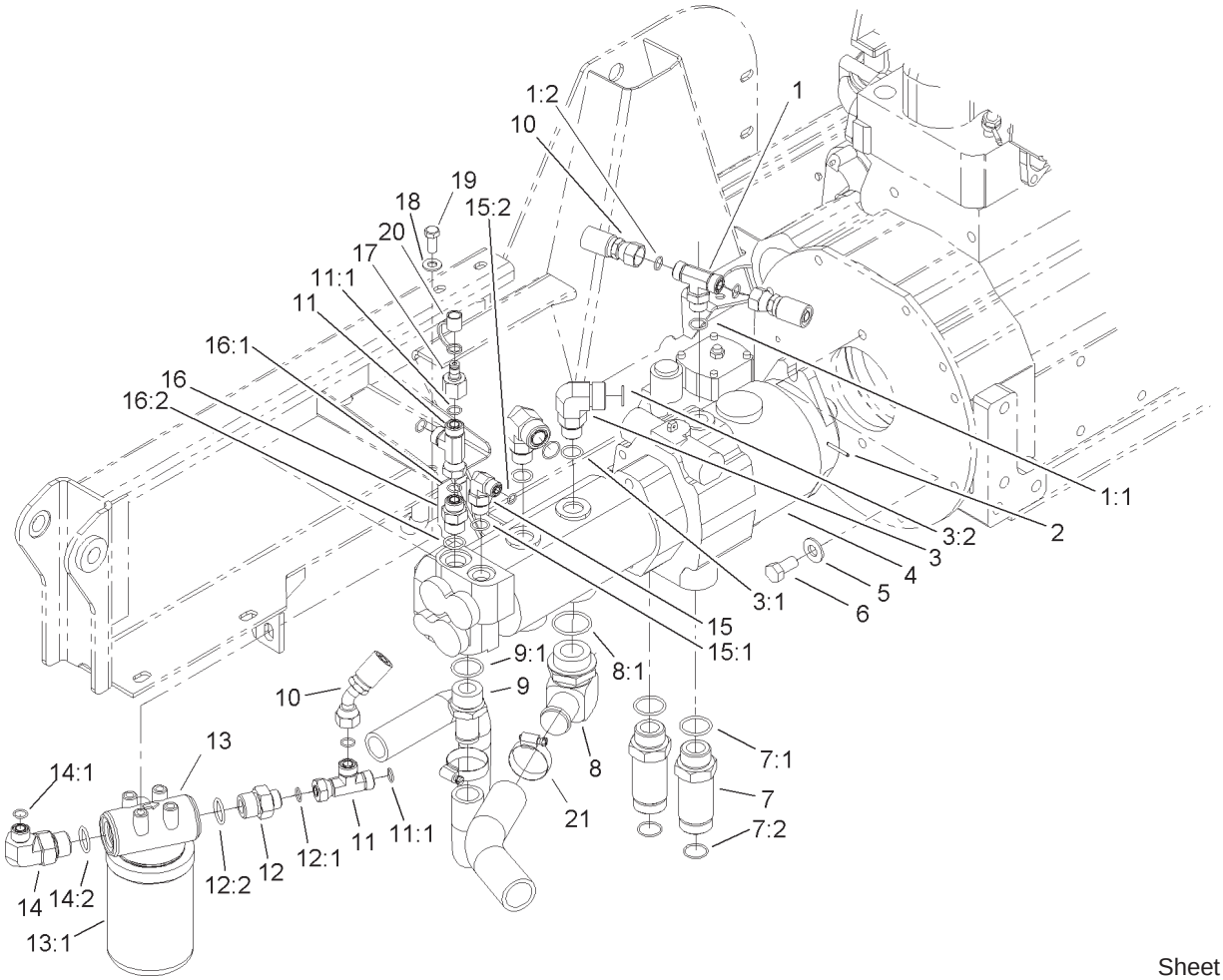
Sheet No.:C3

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	3	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

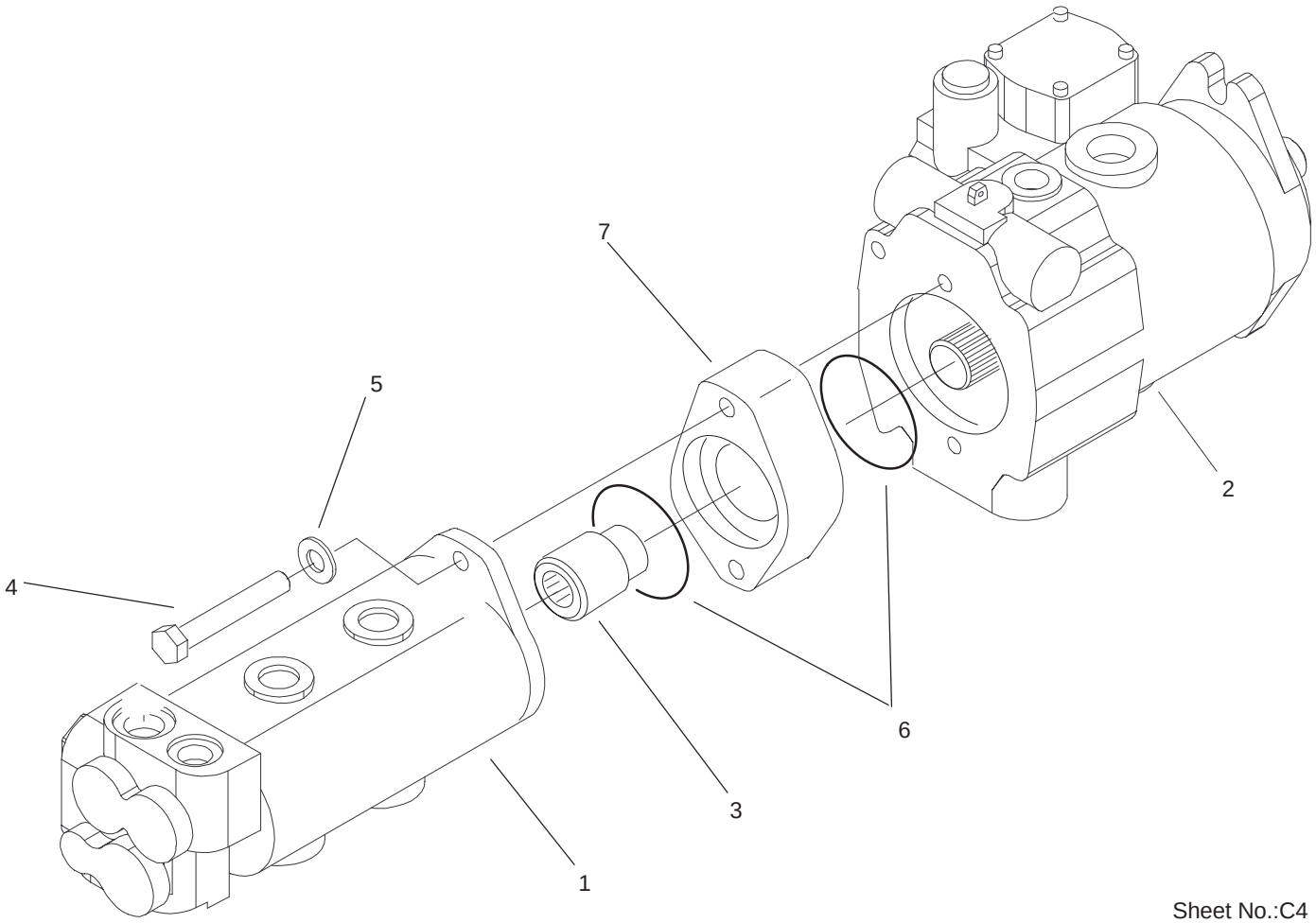


Sheet No.:21

Pump and Filter Installation 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	32121–77	1	Pin–Roll
3	340–16	2	Fitting–HYD, 90
3:1	237–80	1	O–Ring
3:2	237–58	1	O–Ring
4	105–7377	1	Pump ASM
5	87–7270	2	Washer–Thrust
6	3213–1	2	Screw–HH
7	100–5565	2	Fitting–HYD
7:1	237–146	1	O–Ring
7:2	340–65	1	O–Ring
8	92–7526	1	Fitting–HYD, 90°
8:1	237–101	1	O–Ring
9	354–78	1	Connector–Hose
9:1	237–146	1	O–Ring
10	100–5521	1	Hose ASM
11	340–104	2	Tee–Fitting
11:1	237–30	2	O–Ring
12	100–4240	1	Fitting–Adapter
12:1	237–30	1	O–Ring
12:2	237–81	1	O–Ring
13	93–2242	1	Oil Filter ASM
13:1	75–1310	1	Element–Filter
14	340–131	1	Fitting–Elbow, 90

Ref. No.	Part No.	Qty.	Description
14:1	237–30	1	O–Ring
14:2	237–81	1	O–Ring
15	340–18	1	Fitting–HYD, 90°
15:1	237–79	1	O–Ring
15:2	237–22	1	O–Ring
16	340–6	1	Fitting–HYD, Straight
16:1	237–30	1	O–Ring
16:2	237–80	1	O–Ring
17	100–5616	1	Fitting–HYD
18	3256–24	2	Washer–Flat
19	323–5	2	Screw–HH
20	354–79	1	Cap–Dust
21	2412–111	2	Clamp

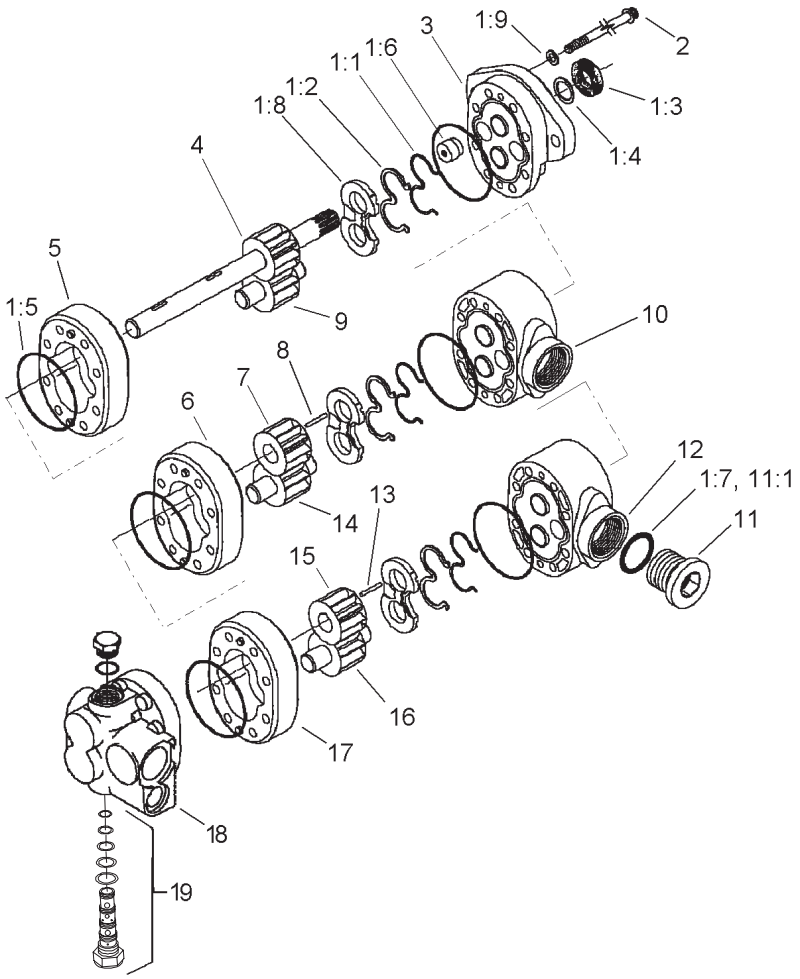


Sheet No.:C4

Pump Assembly No. 105–7377

Ref. No.	Part No.	Qty.	Description
1	105–7378	1	Gear Pump ASM
2	105–4567	1	Pump–Piston
3	74–9030	1	Coupler
4	323–32	2	Screw–HH
5	60–3540	2	Washer
6	60–3520	2	O–Ring
7	105–2869	1	Spacer

Ref. No.	Part No.	Qty.	Description



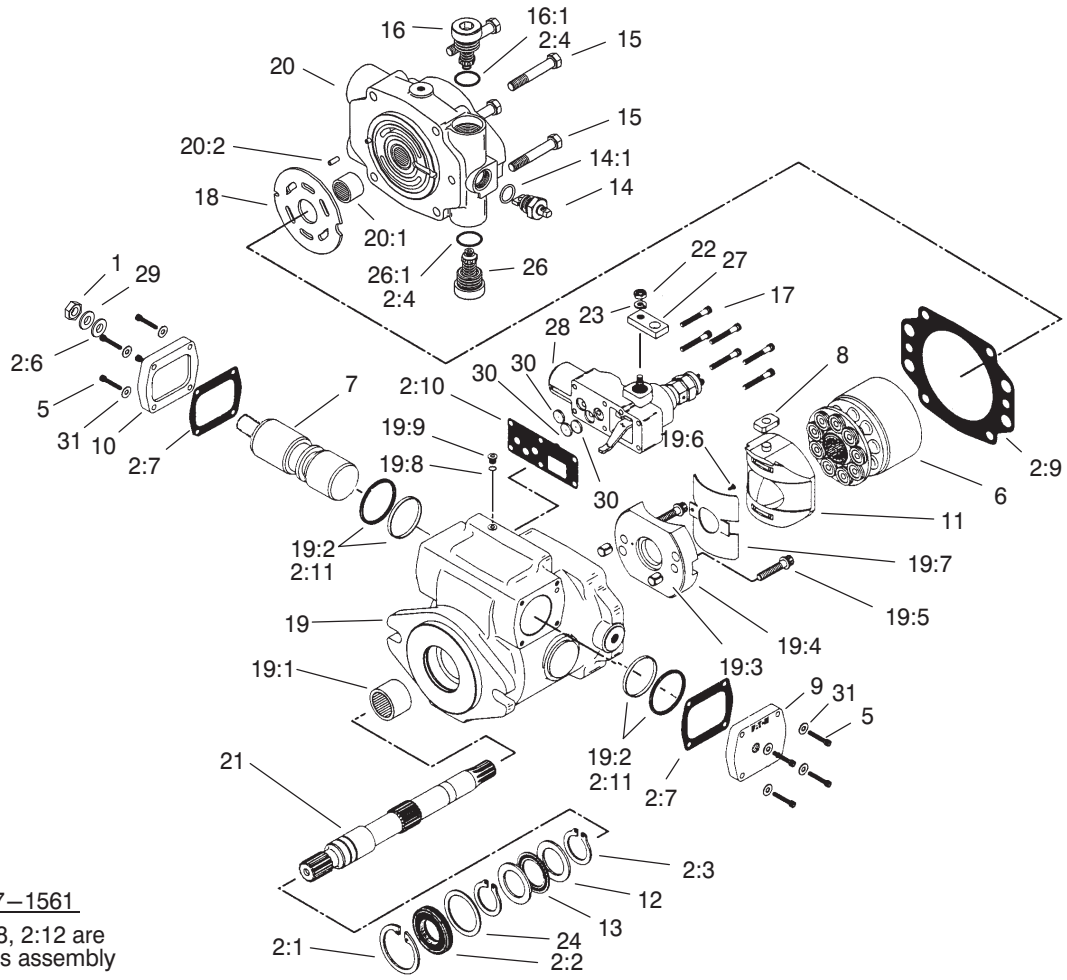
Sheet No.:C5

Gear Pump Assembly No. 105–7378

Ref. No.	Part No.	Qty.	Description
1	105–2868	1	Seal Kit
☆1:1		3	Gasket–Back Up
☆1:2		3	Seal–Balance
1:3	49–2640	1	Seal–Shaft
1:4	60–5890	1	Washer
☆1:5		6	O–Ring
☆1:6		1	Plug
☆1:7		1	O–Ring
☆1:8		3	Plate–Wear
☆1:9		4	Washer
2	106–6872	8	Screw–Cap
☆3		1	Front Plate ASM
☆4		1	Drive Gear ASM
☆5		1	Body
☆6		1	Body
☆7		1	Gear
☆8		1	Key
☆9		1	Gear–Idler
☆10		1	Plate–Adaptor
11	94–3013	1	Plug
☆11:1		1	O–Ring
☆12		1	Plate–Adaptor
☆13		1	Key
☆14		1	Gear–Idler
☆15		1	Gear
☆16		1	Gear–Idler

Ref. No.	Part No.	Qty.	Description
☆17		1	Body
☆18		1	Backplate ASM
19	105–2870	1	Valve–Proportional

☆ Not serviced separately



Seal Kit 107–1561

items 2:5, 2:8, 2:12 are not used in this assembly

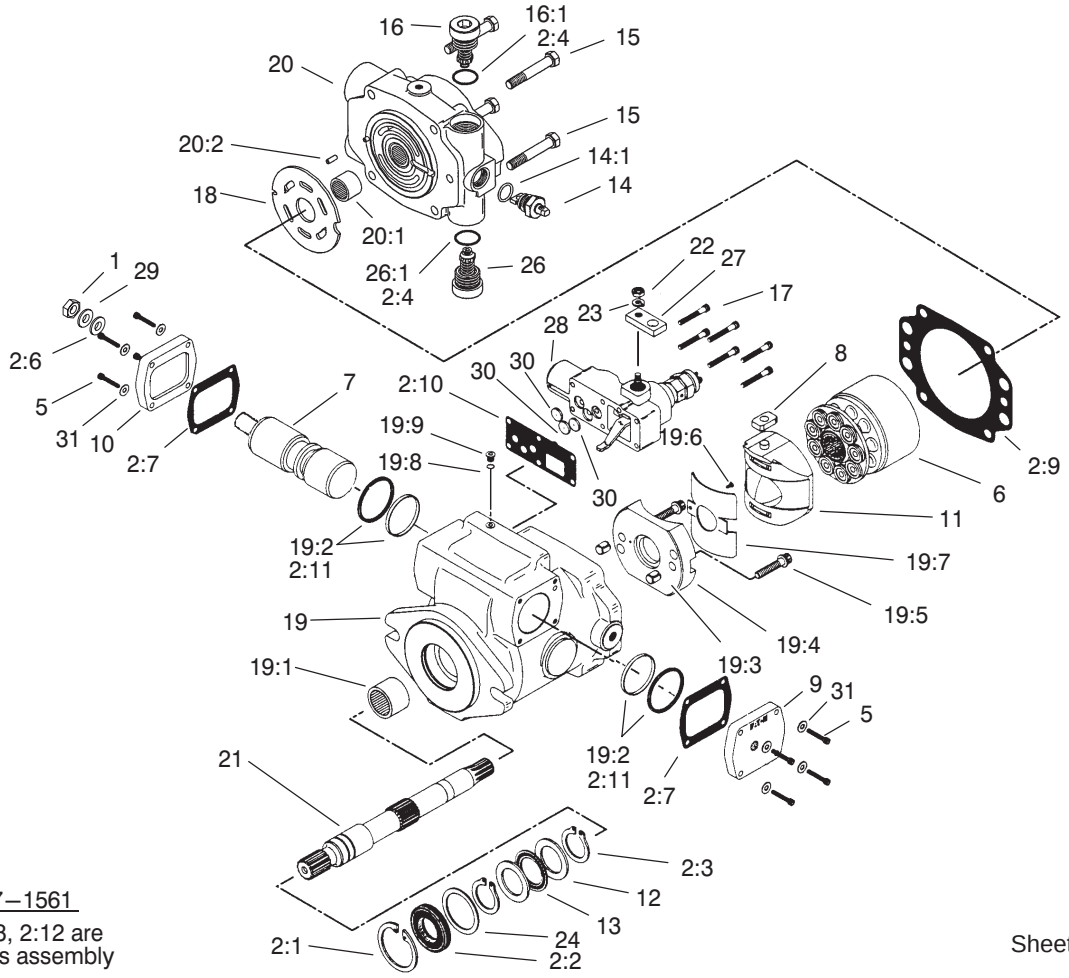
Sheet No.:C6

Piston Pump Assembly No. 105–4567

Ref. No.	Part No.	Qty.	Description
1	3220–2	1	Nut
2	107–1561	1	Seal Kit
2:1	60–6260	1	Ring
2:2	105–3331	1	Seal–Shaft
2:3	76–7000	2	Ring–Retaining
☆2:4		2	O–Ring
2:5	93–6314	2	O Ring
2:6	94–3027	1	Washer–Seal
2:7	93–6339	2	Gasket
2:8	93–6376	1	O Ring
2:9	105–2900	1	Gasket–Housing
2:10	105–2901	1	Gasket–Housing, Control
☆2:11		2	Seal ASM
2:12	74–9380	1	O–Ring
5	3274–81	8	Screw–HSH
6	93–6322	1	Rotating Kit
7	105–4572	1	Servo Piston ASM
8	94–3032	1	Follower–Piston
9	94–3033	1	Plate–Cover
10	94–3034	1	Plate–Cover
11	94–3026	1	Camplate ASM
12	76–6950	2	Race–Thrust
13	76–6960	1	Bearing–Thrust
14	105–2864	1	Valve–Bypass
☆14:1		1	O–Ring

Ref. No.	Part No.	Qty.	Description
15	323–45	4	Screw–HH
16	105–2857	1	Valve–Relief
☆16:1		1	O–Ring
17	3274–59	6	Screw–HSH
18	94–3022	1	Plate–Valve
19	105–2859	1	Housing ASM
☆19:1		1	Bearing
☆19:2		2	Seal
☆19:3		2	Dowel–Bushing
☆19:4		1	Cradle ASM
☆19:5		2	Screw
☆19:6		1	Screw
☆19:7		1	Bushing
☆19:8		1	O–Ring
☆19:9		1	Plug
20	105–2860	1	Backplate ASM
☆20:1		1	Bearing
☆20:2		1	Pin–Roll
21	105–2861	1	Shaft–Drive
22	3217–5	1	Nut–Hex
23	3253–3	1	Washer–Lock
24	94–3007	1	Washer
26	105–2858	1	Valve–Relief
☆26:1		1	O–Ring
27	105–2862	1	Arm–Control
28	93–6306	1	Control ASM

☆ Not serviced separately



Seal Kit 107–1561

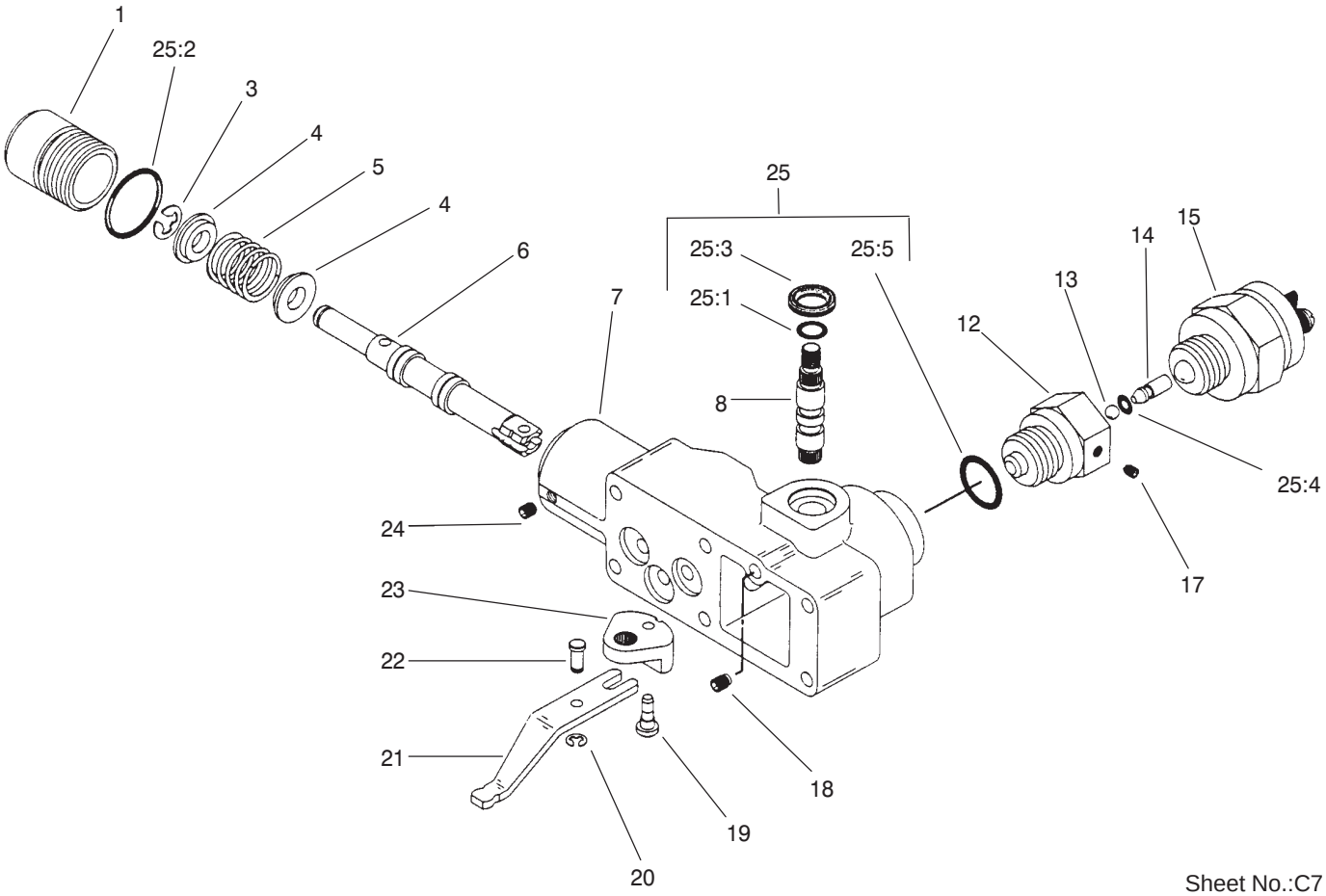
items 2:5, 2:8, 2:12 are not used in this assembly

Sheet No.:C6

Piston Pump Assembly No. 105–4567 (Continued)

Ref. No.	Part No.	Qty.	Description
29	94–3030	1	Washer
30	105–2863	3	Orifice
31	3256–77	8	Washer–Flat

Ref. No.	Part No.	Qty.	Description



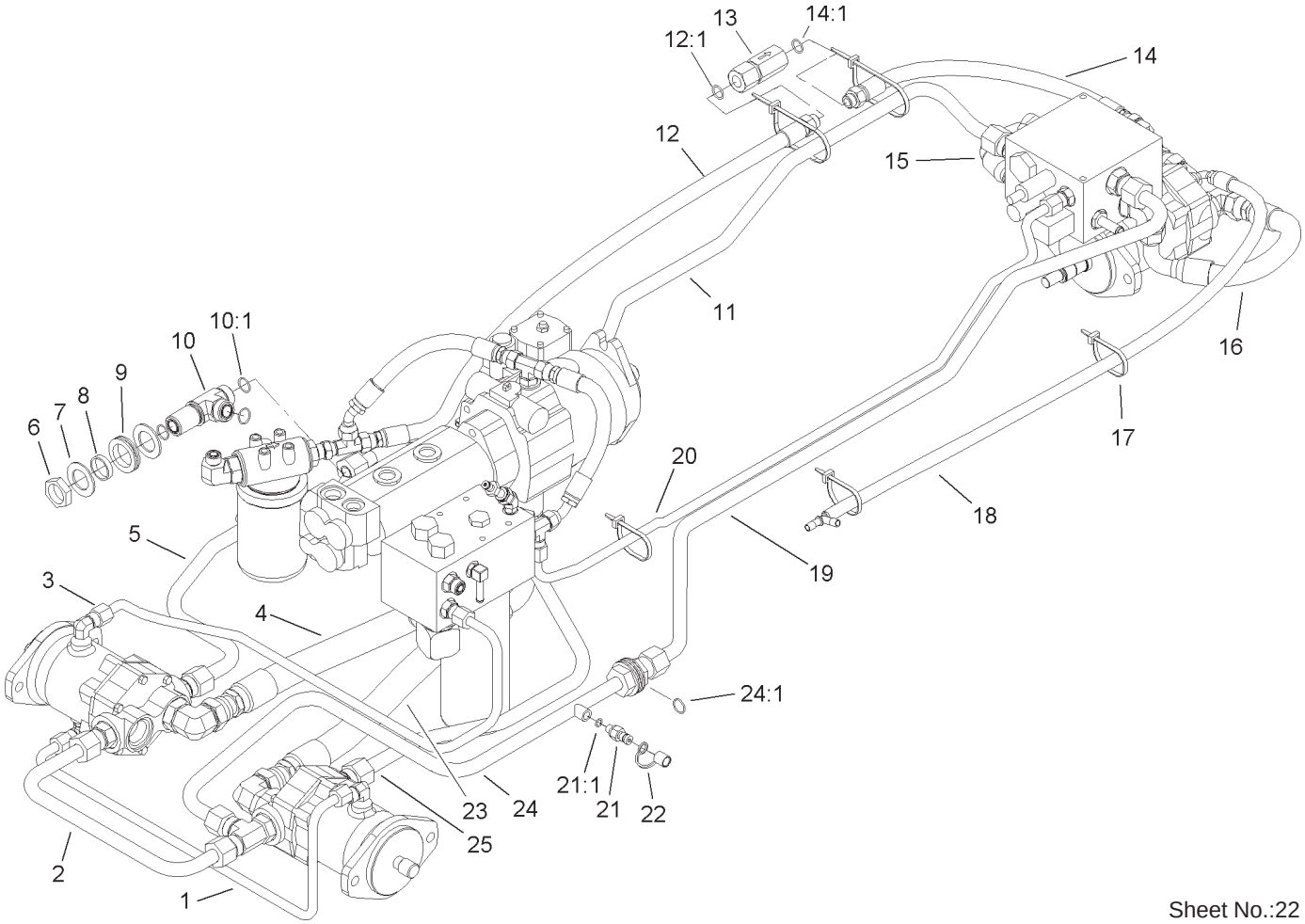
Sheet No.:C7
T–2119

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

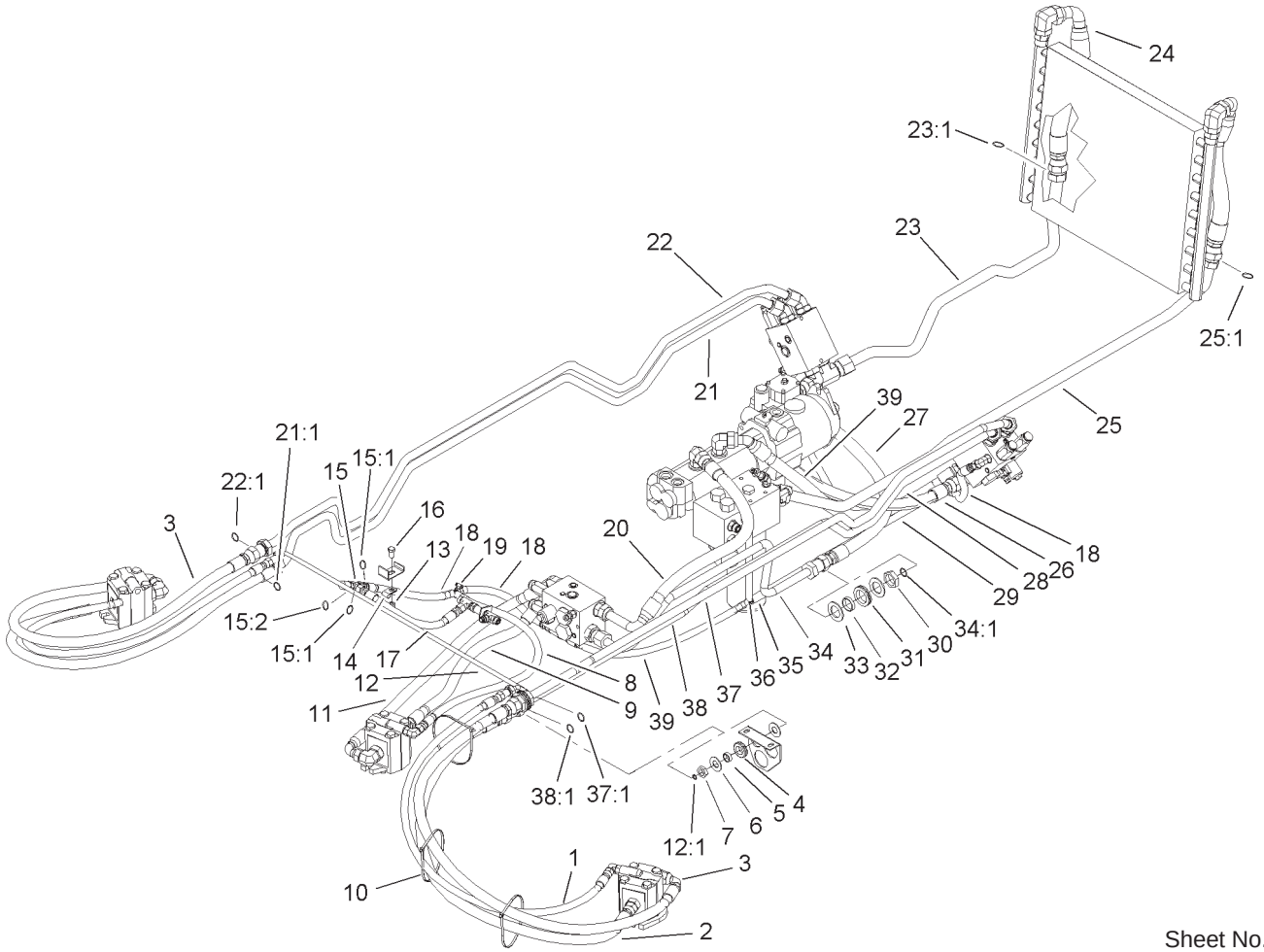


Sheet No.:22

Hydraulic Plumbing Assembly

Ref. No.	Part No.	Qty.	Description
1	100–3095	1	Tube–HYD, Drain & Motors
2	100–5574	1	Tube–HYD, Motor Front
3	104–0793	1	Tube–HYD, Drain Motor & Filter
4	100–5525	1	Hose ASM
5	104–3581	1	Tube–HYD, RH Motor
6	340–126	2	Nut–Bulkhead
7	69–8910	4	Washer
8	69–8900	2	Spacer
9	240–7	2	Grommet–Rubber
10	104–3558	1	Fitting–Bulkhead
10:1	237–58	3	O–Ring
11	100–5571	1	Tube–HYD, RH Rear Traction
12	104–2237	1	Hose ASM
12:1	237–79	1	O–Ring
13	100–5600	1	Valve–Check
14	100–5617	1	Hose ASM
14:1	237–79	1	O–Ring
15	104–3502	1	Hose ASM
16	100–5579	1	Hose ASM
17	3290–378	7	Tie–Cable
18	100–5614	1	Hose ASM

Ref. No.	Part No.	Qty.	Description
19	100–5572	1	Tube–HYD, LH Rear Traction
20	105–4508	1	Tube–HYD, LH Charge
21	354–77	2	Fitting–Quick
21:1	237–78	1	O–Ring
22	354–79	2	Cap–Dust
23	100–5524	1	Hose ASM
24	100–5573	1	Tube–HYD, LH Front Motor
24:1	237–58	1	O–Ring
25	104–3582	1	Tube–HYD, LH Motor

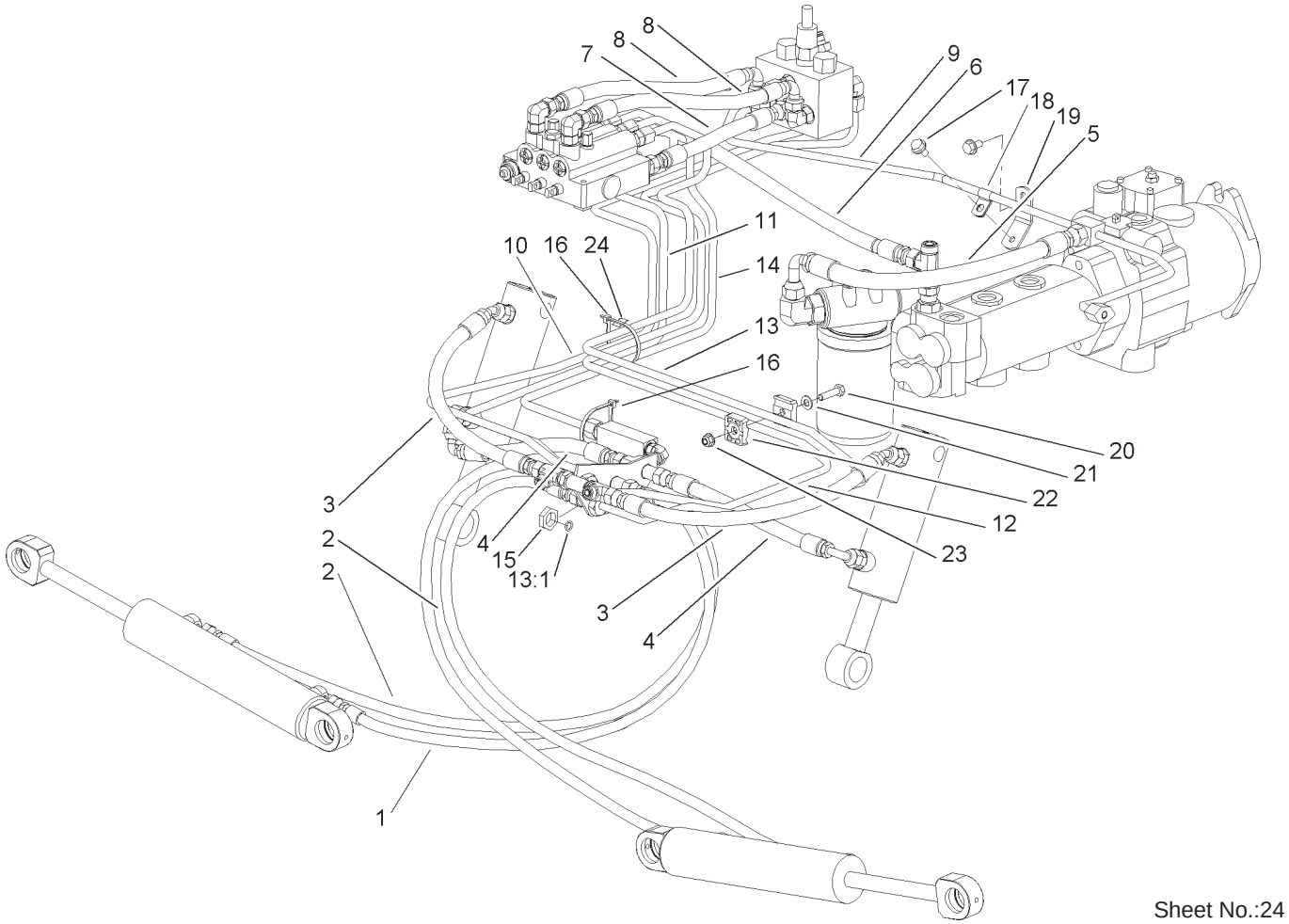


Sheet No.:23

Power Take Off Hydraulic Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7462	2	Hose ASM
2	105–7460	2	Hose ASM
3	105–7461	2	Hose ASM
4	240–4	2	Grommet–Rubber
5	69–8970	2	Spacer
6	69–8940	4	Washer
7	340–70	2	Nut–Lock
8	106–7208	1	Hose ASM
9	105–7459	1	Hose ASM
10	3290–379	9	Tie–Cable
11	98–7404	1	Hose ASM
12	105–7374	1	Tube–HYD
12:1	237–22	2	O–Ring
13	3296–39	1	Nut–Lock, NI
14	2412–113	1	Clamp
15	340–86	1	Fitting–HYD, Tee
15:1	237–22	2	O–Ring
15:2	237–42	1	O–Ring
16	323–4	1	Screw–HH
17	92–7833	1	Hose ASM
18	100–5641	3	Hose ASM
19	2412–36	12	Clamp–Hose
20	95–0961	1	Hose ASM
21	105–7366	1	Tube–HYD
21:1	237–58	1	O–Ring
22	105–7365	1	Tube–HYD

Ref. No.	Part No.	Qty.	Description
22:1	237–58	1	O–Ring
23	104–0796	1	Tube–HYD, RH Cooler
23:1	340–65	1	O–Ring
24	100–5568	2	Hose ASM
25	104–0797	1	Tube–HYD, LH Cooler
25:1	340–65	1	O–Ring
26	100–5645	1	Hose ASM
27	104–2235	1	Hose ASM
28	104–2264	1	Hose ASM
29	100–5649	2	Hose
30	340–126	5	Nut–Bulkhead
31	240–7	5	Grommet–Rubber
32	69–8900	5	Spacer
33	69–8910	10	Washer
34	104–0795	1	Tube–HYD, Front PTO
34:1	237–58	1	O–Ring
35	100–5607	1	Hose
36	354–107	4	Fitting–HYD, Tee
37	105–7363	1	Tube–HYD
37:1	237–58	1	O–Ring
38	105–7364	1	Tube–HYD
38:1	237–58	1	O–Ring
39	100–5570	2	Hose ASM



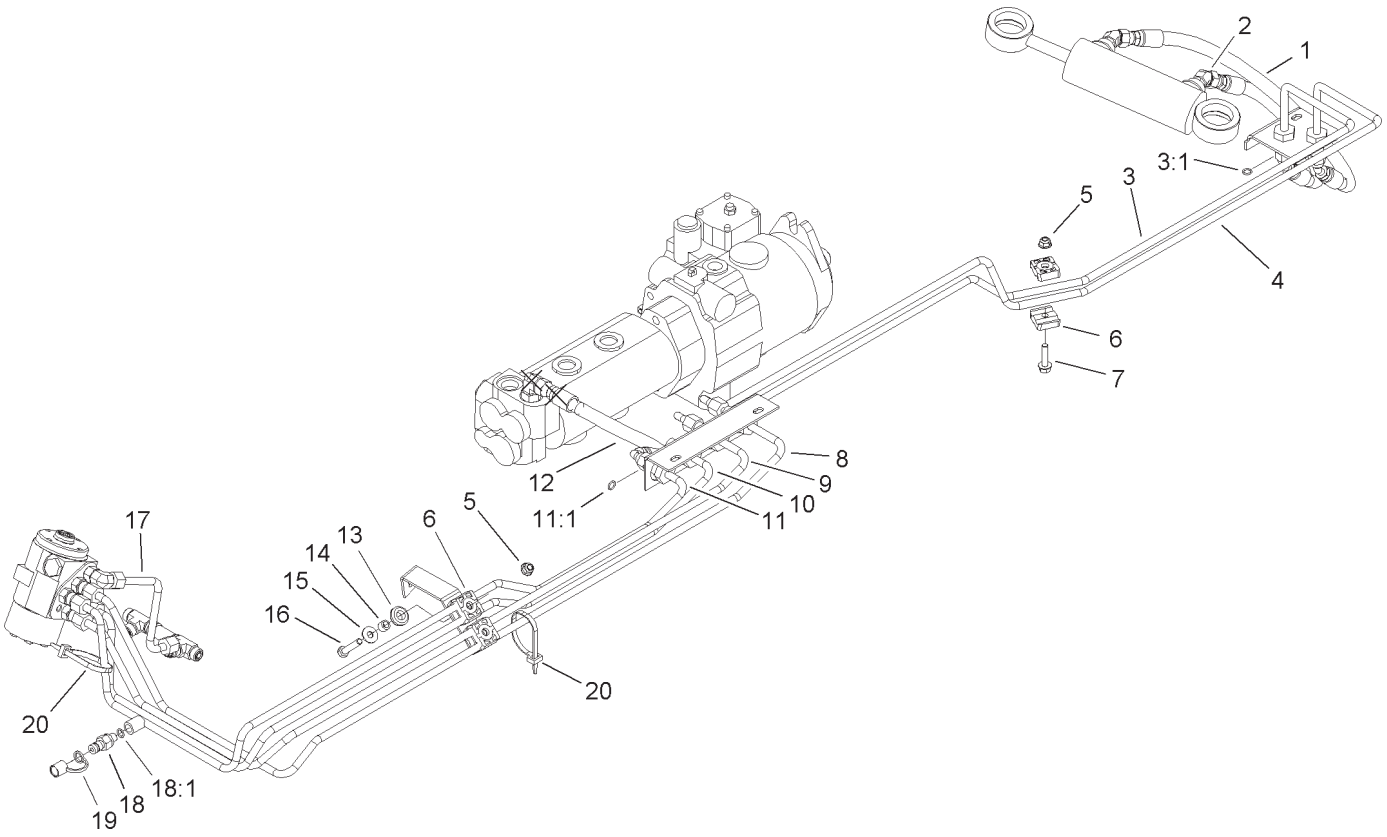
Sheet No.:24

Lift Arm Hydraulic Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7464	2	Hose ASM
2	105–7463	2	Hose ASM
3	92–7595	2	Hose ASM
4	104–2234	2	Hose ASM
5	83–9600	1	Hose ASM
6	104–2239	1	Hose ASM
*6:1	237–79	1	O–Ring
7	100–5589	1	Hose ASM
8	104–2240	2	Hose ASM
9	100–3089	1	Tube–HYD, Charge
10	105–7367	1	Tube–HYD
*10:1	237–22	1	O–Ring
11	105–7368	1	Tube–HYD
*11:1	237–22	1	O–Ring
12	105–7369	1	Tube–HYD
*12:1	237–22	1	O–Ring
13	105–7370	1	Tube–HYD
13:1	237–22	1	O–Ring
14	105–7371	1	Tube–HYD
15	340–70	4	Nut–Lock
16	3290–379	4	Tie–Cable
17	32144–14	2	Screw–HWH
18	2412–113	1	Clamp
19	107–0172	1	Angle–Support
20	322–6	1	Screw–HH
21	3256–23	1	Washer–Flat

Ref. No.	Part No.	Qty.	Description
22	56–7973	2	Clamp–Tube
23	104–8300	1	Nut–Flange, NI
24	92–2992	1	Foam–Strap

* Not illustrated



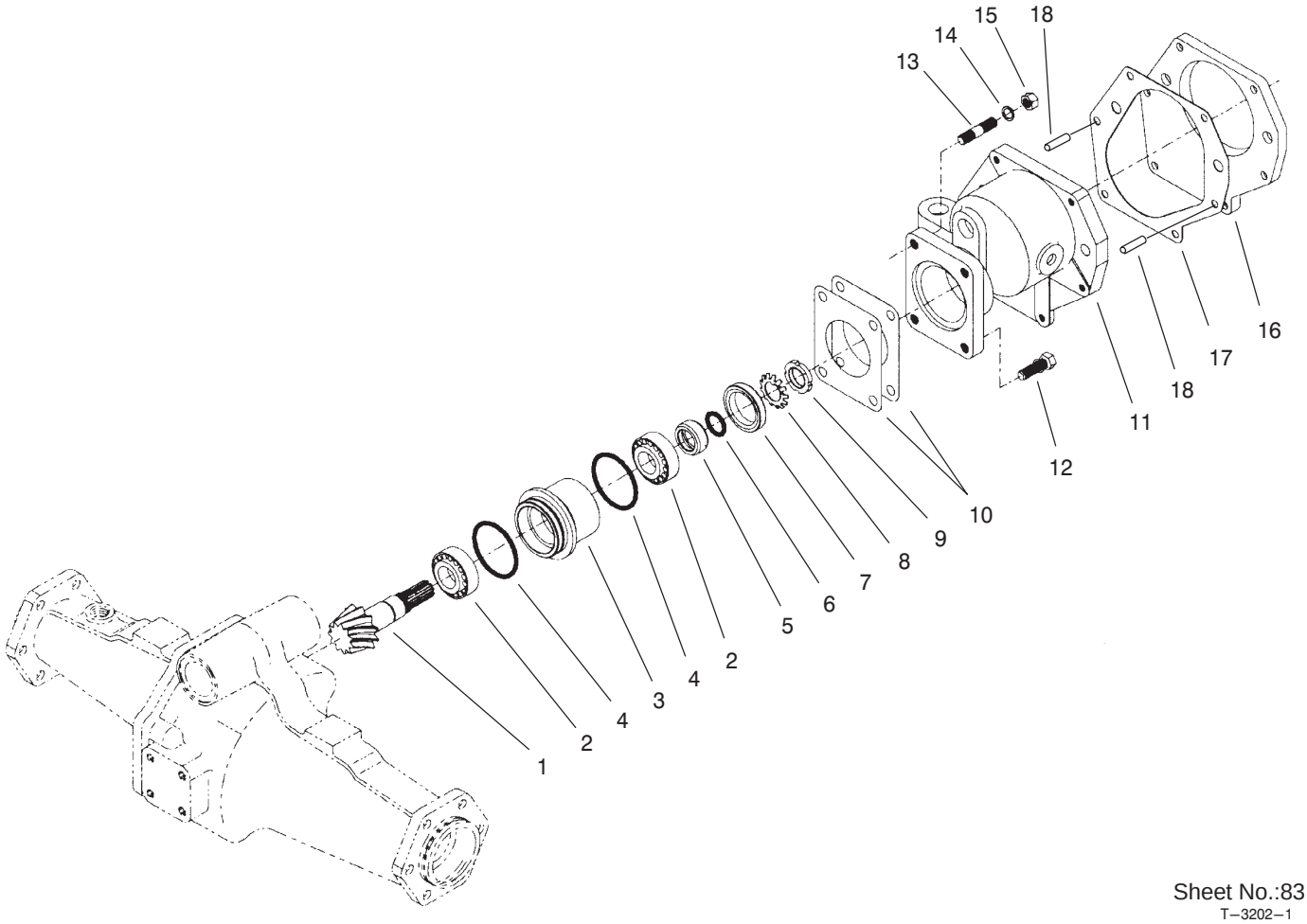
Sheet No.:25

Steering Hydraulic Assembly

Ref. No.	Part No.	Qty.	Description
1	92–7538	1	Hose ASM
2	92–7539	1	Hose ASM
3	100–5576	1	Tube–HYD, RH Rear Steering
3:1	237–22	1	O–Ring
4	100–5575	1	Tube–HYD, LH Rear Steering
*4:1	237–22	1	O–Ring
5	104–8300	3	Nut–Flange, NI
6	56–7973	6	Clamp–Tube
7	3234–36	1	Screw–HHF
8	100–3091	1	Tube–HYD, LH Front Steering
*8:1	237–22	1	O–Ring
9	100–3092	1	Tube–HYD, RH Front Steering
*9:1	237–22	1	O–Ring
10	100–3093	1	Tube–HYD, Beyond Power Steering
*10:1	237–22	1	O–Ring
11	100–3090	1	Tube–HYD, Pressure Steering
11:1	237–22	1	O–Ring
12	69–5440	1	Hose ASM
13	93–5108	2	Grommet–Rubber
14	93–5109	2	Spacer

Ref. No.	Part No.	Qty.	Description
15	3256–71	2	Washer–Flat
16	322–8	2	Screw–HH
17	100–5588	1	Tube–HYD, Steer & Drain
18	354–77	1	Fitting–Quick
18:1	237–78	1	O–Ring
19	354–79	1	Cap–Dust
20	3290–378	2	Tie–Cable

* Not illustrated

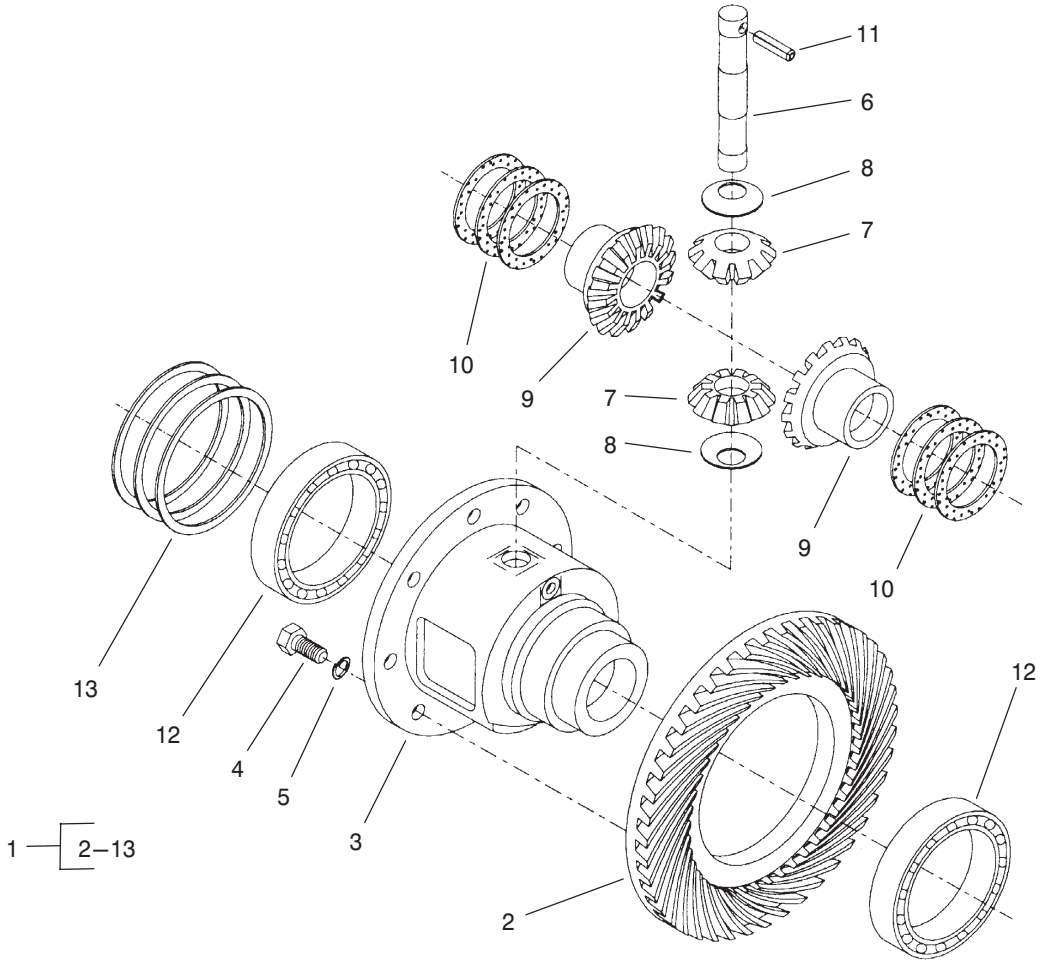


Sheet No.:83
T–3202–1

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

Ref. No.	Part No.	Qty.	Description
1	100–2555	1	Ring And Pinion Matched Set
2	99–7570	2	Bearing–Roller, Taper
3	95–7534	1	Case–Bearing
4	99–7571	2	O–Ring
5	99–7572	1	Collar–Seal, Oil
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



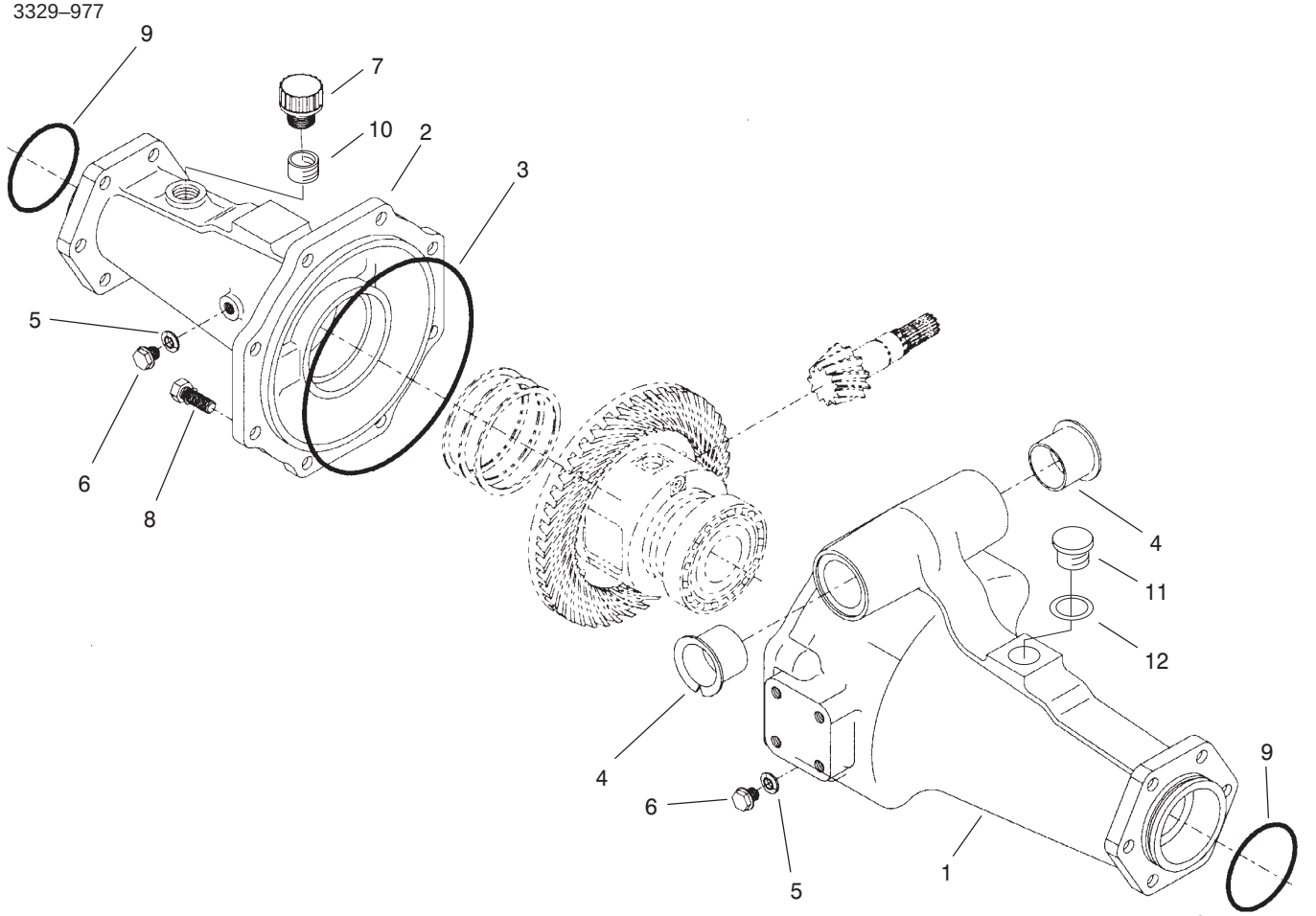
Sheet No.:84

T–3203–1

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

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



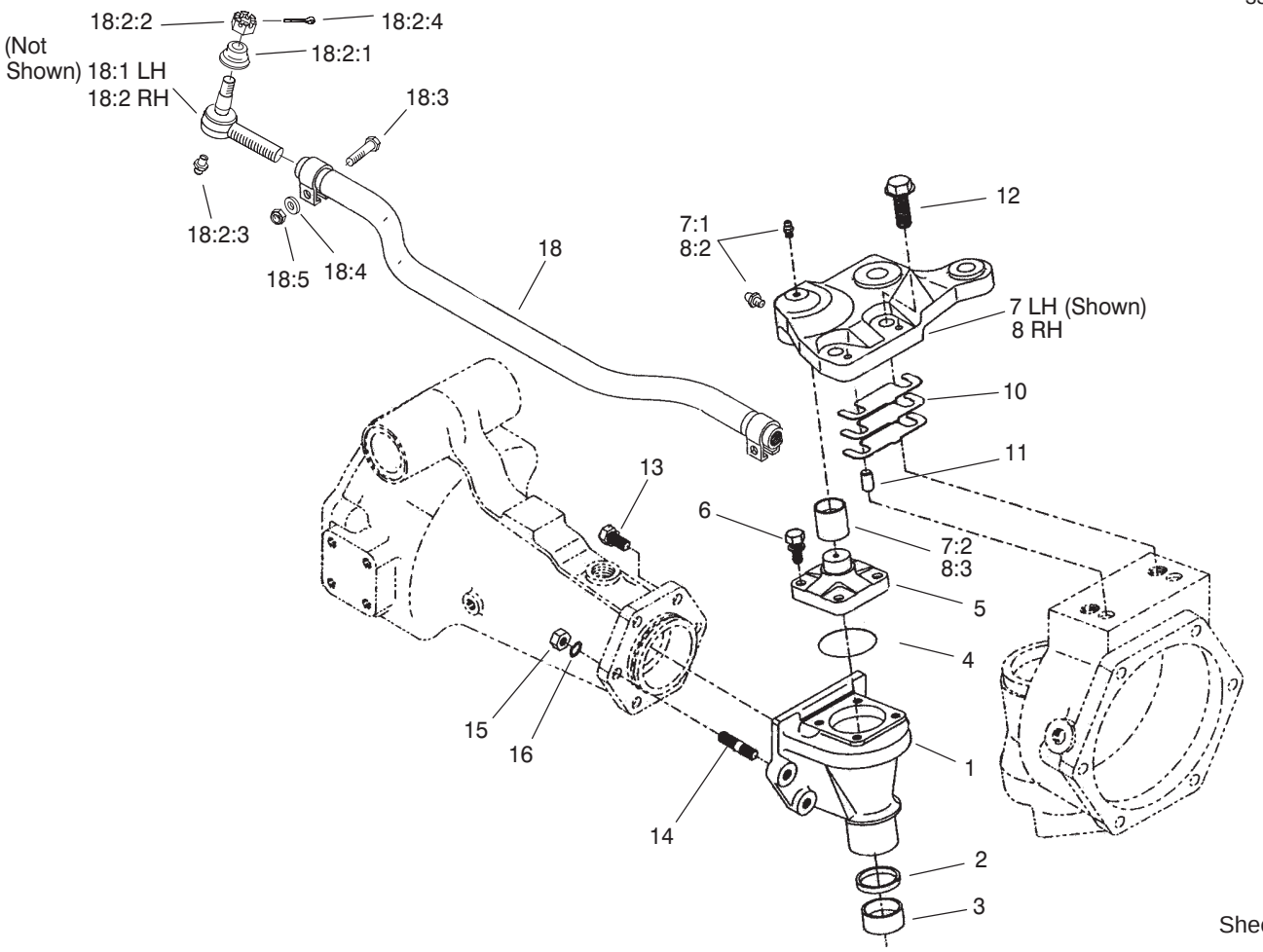
Sheet No.:85

T–3204–1

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

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



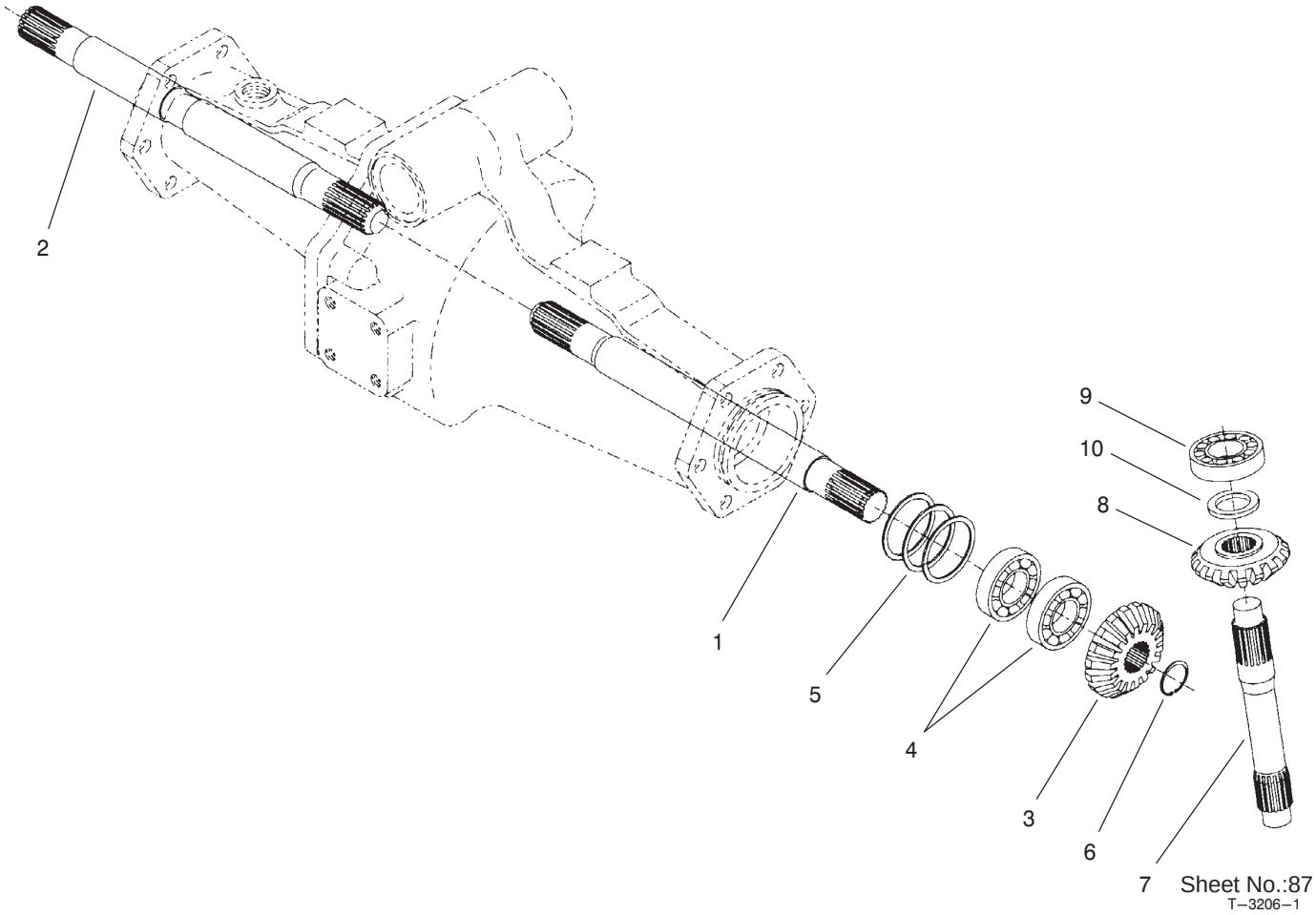
Sheet No.:86
T–3503

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

Ref. No.	Part No.	Qty.	Description
1	95–7538	2	Case–Gear, Bevel
2	100–2557	2	Seal–Oil
3	104–2378	2	Bushing
4	104–2372	2	O–Ring
5	104–2373	2	Knuckle
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
*18:1:1	100–3853	1	Cover–Dust

Ref. No.	Part No.	Qty.	Description
*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

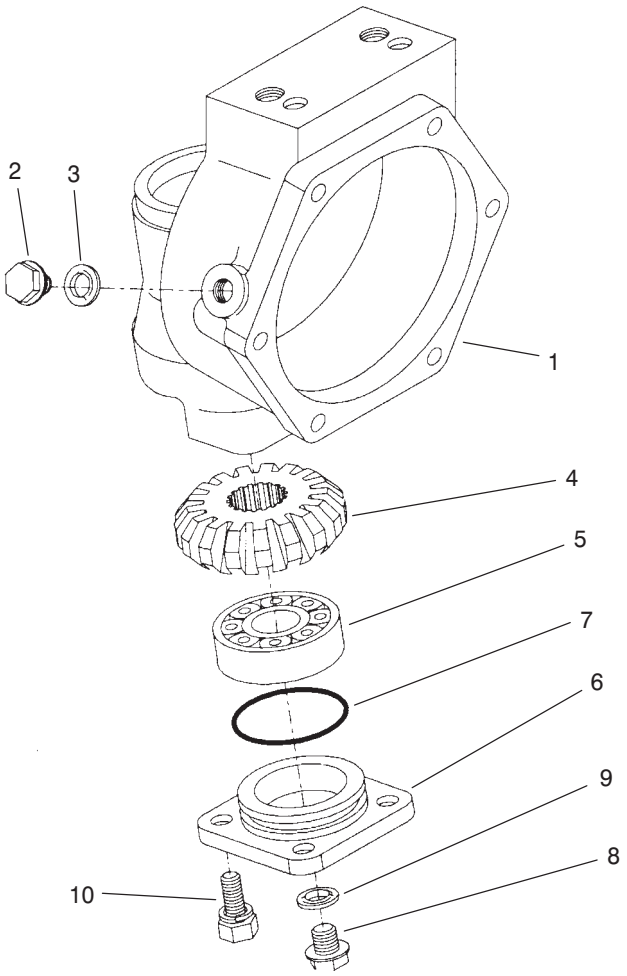
* Not illustrated



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

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–Bevel, 15 Tooth
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–Gear, Bevel
8	95–7519	2	Gear–Bevel, 17 Tooth
9	99–7532	2	Bearing–Roller, Taper
10	99–7558	2	Collar

Ref. No.	Part No.	Qty.	Description

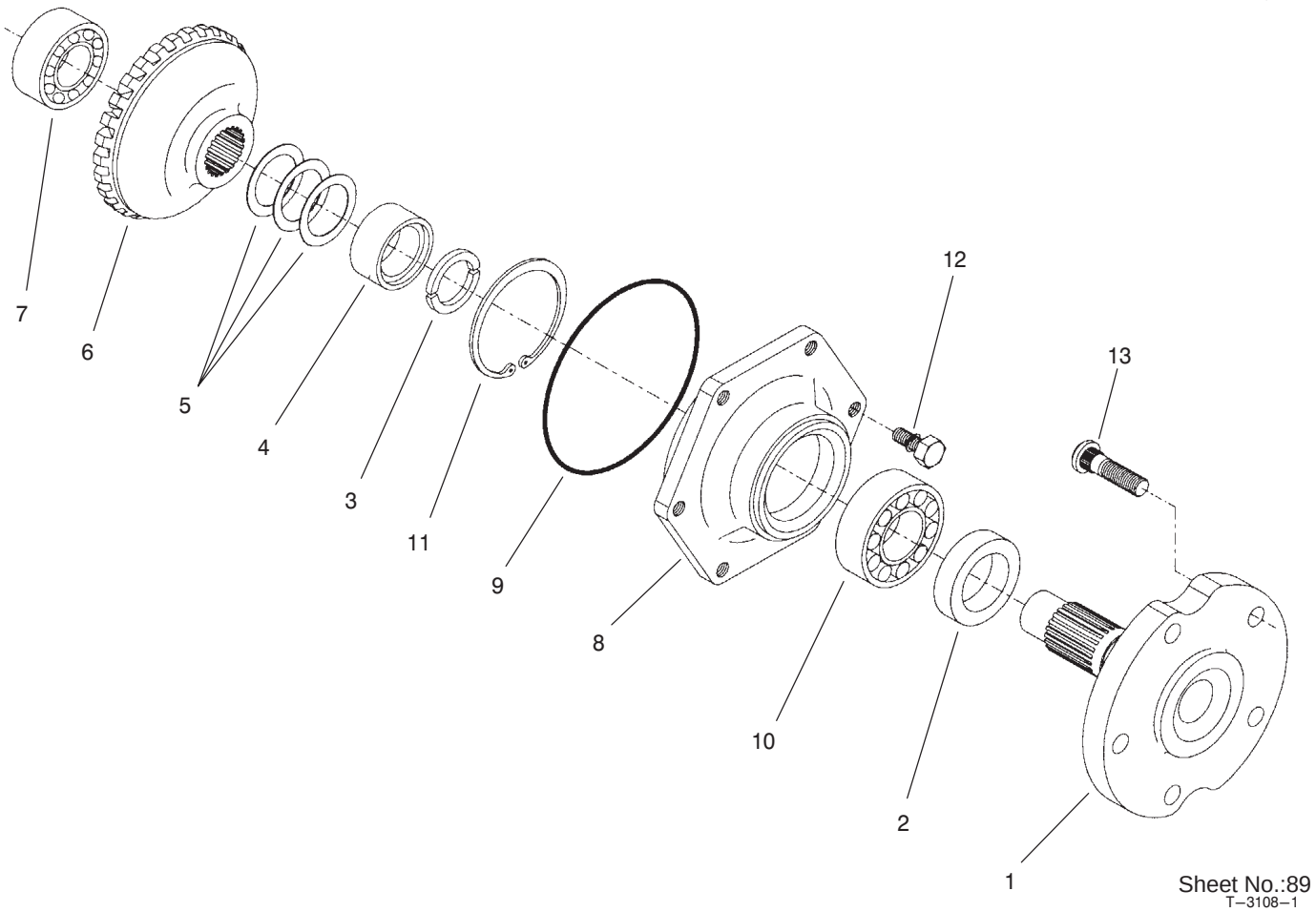


Sheet No.:88
T–3207–1

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

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–Bevel, 17 Tooth
5	99–7532	2	Bearing–Roller, Taper
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

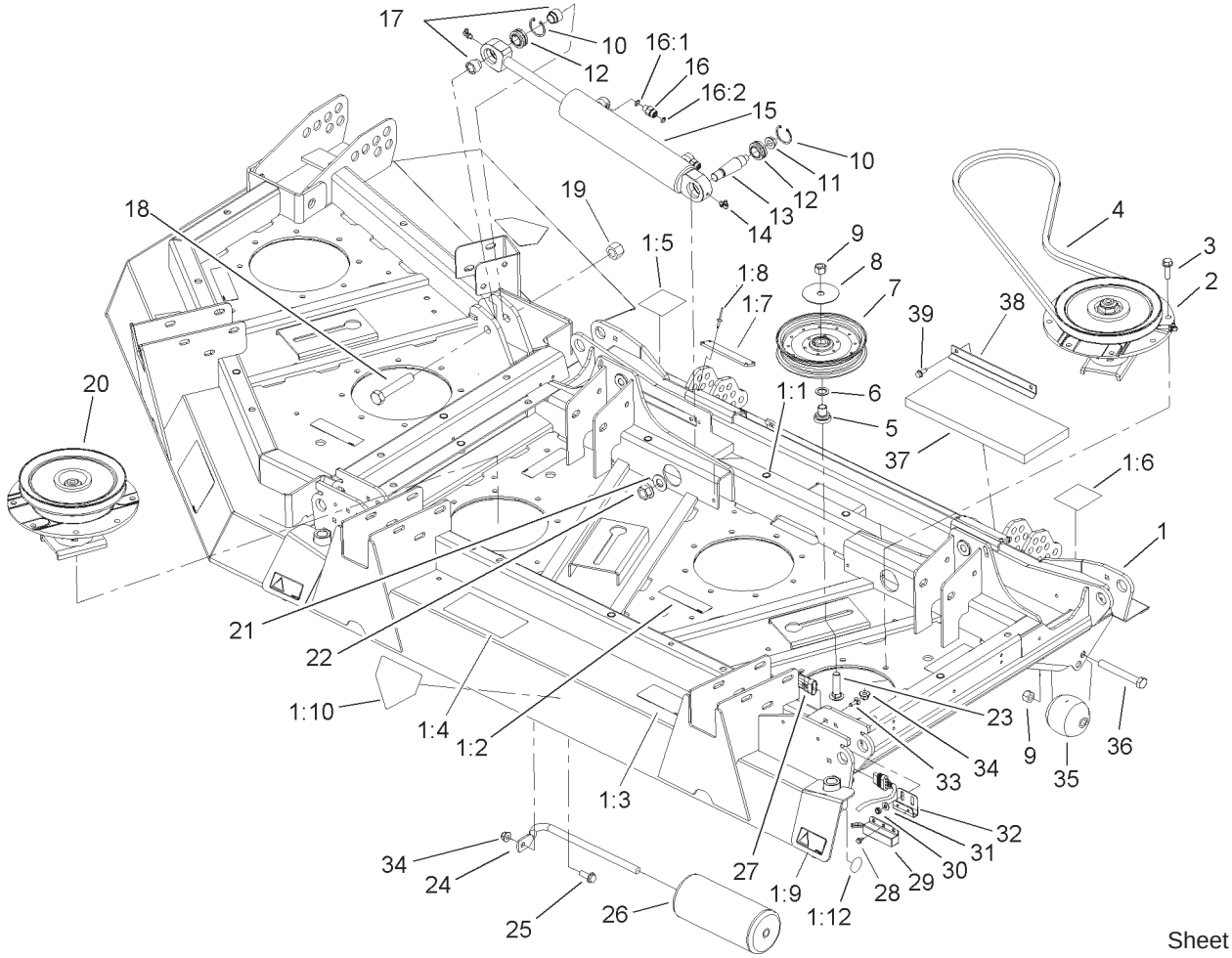


Sheet No.:89
T–3108–1

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

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–Bevel, 29 Tooth
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

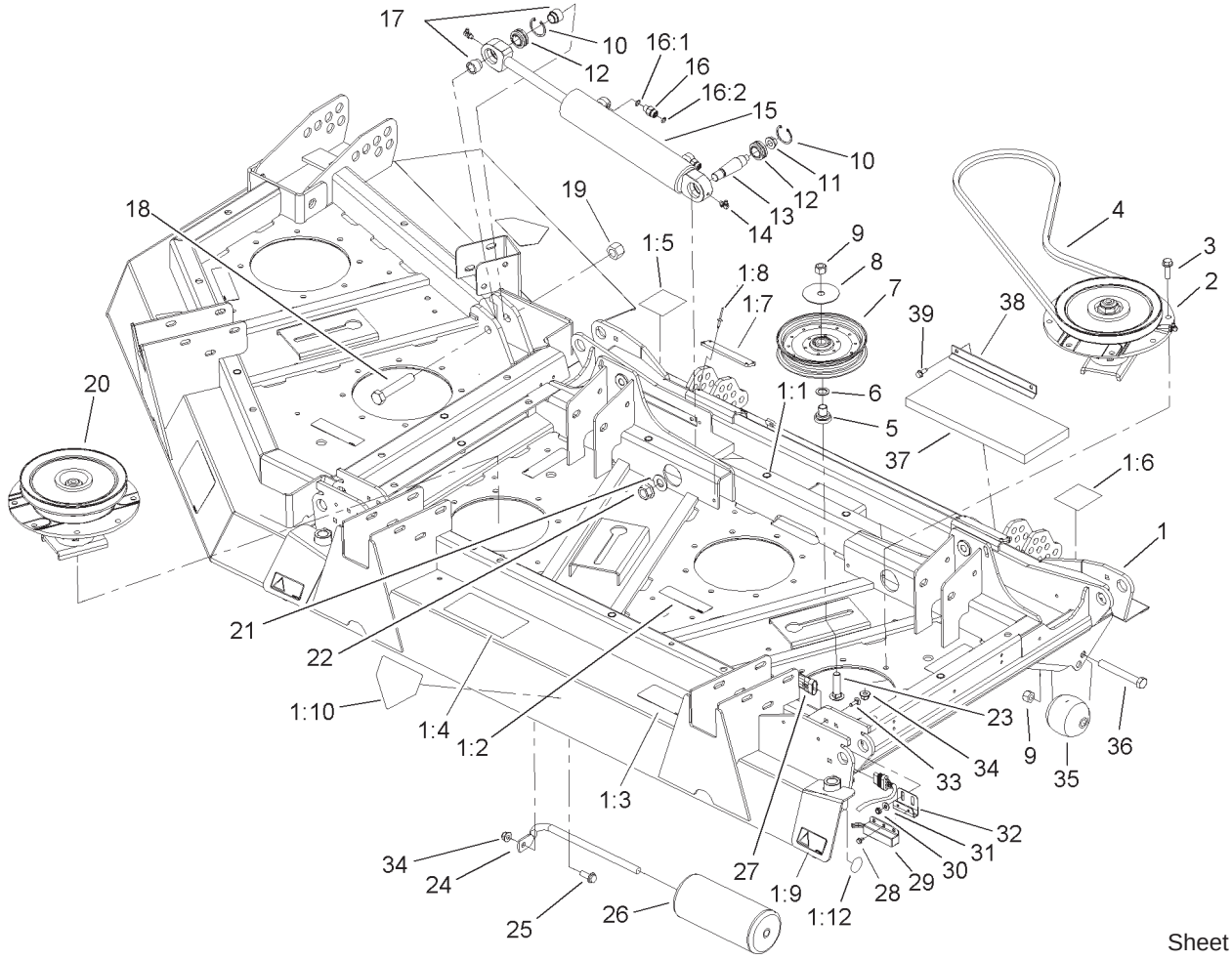


Sheet No.:2

Center Deck Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7351	1	Center Deck ASM
1:1	32148–9	9	Insert–Nut
1:2	100–6578	3	Decal–Danger
1:3	93–7818	1	Decal–Torque, Blade Bolt
1:4	100–5622	1	Decal–HOC
1:5	106–4250	1	Decal–HOC, RH
1:6	106–4251	1	Decal–HOC, LH
1:7	105–0786	2	Pad–Plastic
1:8	3269–24	8	Rivet
1:9	93–6674	2	Decal–Warning
1:10	43–8480	1	Decal–Danger
1:10	106–6753	1	Decal–Danger
1:12	58–6520	2	Decal–Grease
2	104–3532	3	Low Driven Spindle ASM
3	3234–24	44	Screw–HHF
4	105–7438	4	V–Belt
5	100–2984	4	Spacer–Idler
6	3256–69	4	Washer–Flat
7	99–5493	4	Pulley–Idler
8	100–3102	4	Washer–Flat
9	3296–25	6	Nut–Lock, NI
10	32151–34	4	Ring–Retaining
11	32128–42	2	Nut–HF
12	105–7441	4	Bearing–Spherical

Ref. No.	Part No.	Qty.	Description
13	105–7468	2	Stud–Tapered
14	302–60	4	Fitting–Grease
15	105–7342	2	Cylinder–HYD, Lift
16	340–92	4	Fitting–HYD, Straight
16:1	237–78	1	O–Ring
16:2	237–21	1	O–Ring
17	105–7443	4	Spacer–Pilot
18	327–14	2	Screw–HH
19	3296–53	2	Nut–Lock, NI
20	104–3531	1	High Driven Spindle ASM
21	3256–27	2	Washer–Flat
22	3296–41	2	Nut–Lock, NI
23	3233–4	4	Screw–CARR
24	68–6840	1	Shaft–Roller
25	3234–11	1	Screw–HHF
26	68–6710	1	Roller
27	105–7473	1	Harness–Wire, Deck
28	104–2065	4	Screw–HWH
29	104–0758	2	Sensor–Ferrous
30	3296–56	4	Nut–Lock, NI
31	3256–22	4	Washer–Flat
32	106–4264	2	Bracket–Switch
33	3229–1	4	Screw–CARR
34	104–8301	45	Nut–Flange, NI
35	29–4820	2	Roller

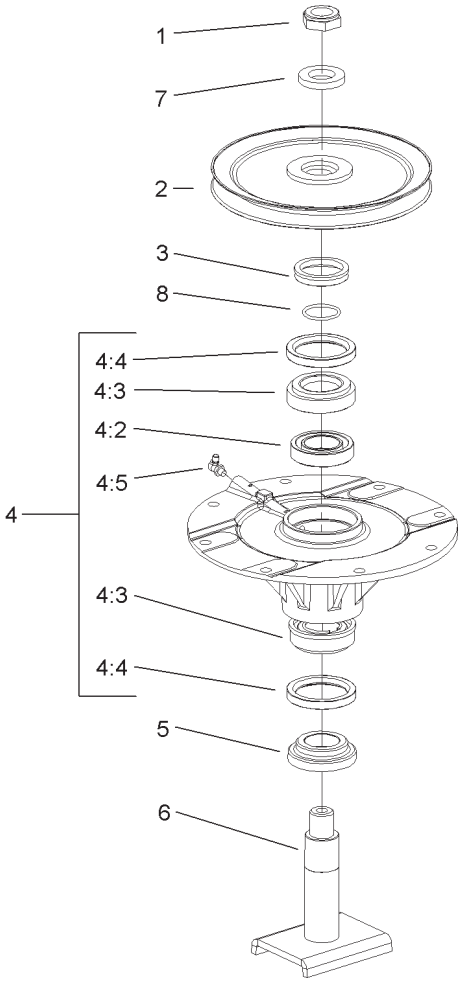


Sheet No.:2

Center Deck Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
36	325–17	2	Screw–HH
37	106–7179	2	Pad–Foam
38	106–7227	4	Support–Pad
39	32104–95	8	Screw–HWH

Ref. No.	Part No.	Qty.	Description

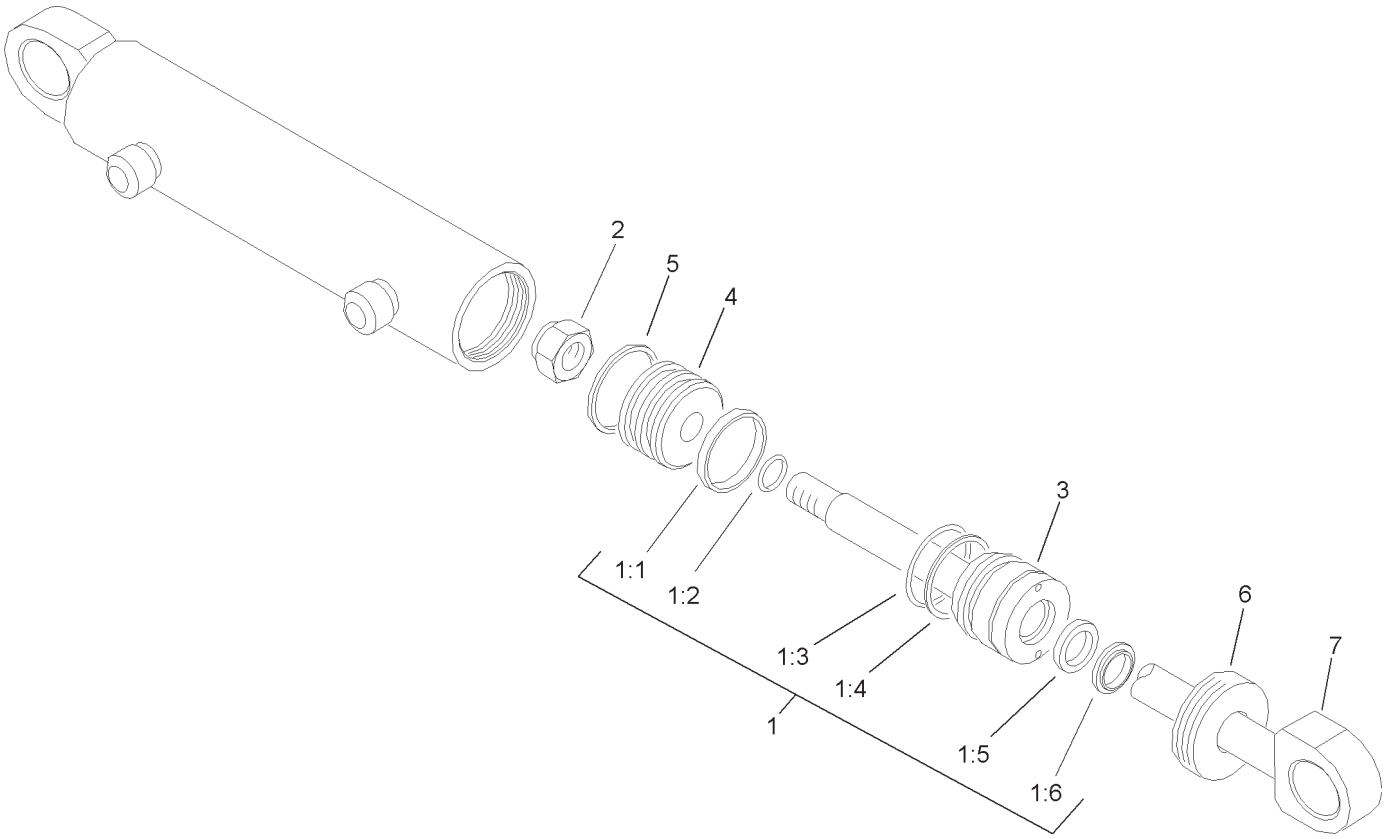


Sheet No.:A1

Low Driven Spindle Assembly No. 104–3532

Ref. No.	Part No.	Qty.	Description
1	3296–60	1	Nut–Lock, NI
2	104–3546	1	Pulley–Driven, Low
3	104–3564	1	Seal–V Ring
4	104–3552	1	Spindle Housing ASM
4:2	104–3549	1	Spacer Set–Bearing
4:3	26–1830	1	Bearing ASM
4:4	253–154	2	Seal–Oil
4:5	302–60	1	Fitting–Grease
5	92–9800	1	Spacer–Shaft, Spindle
6	104–3554	1	Spindle Shaft ASM
7	104–8322	1	Washer–Hardened
8	106–7159	1	O–Ring

Ref. No.	Part No.	Qty.	Description



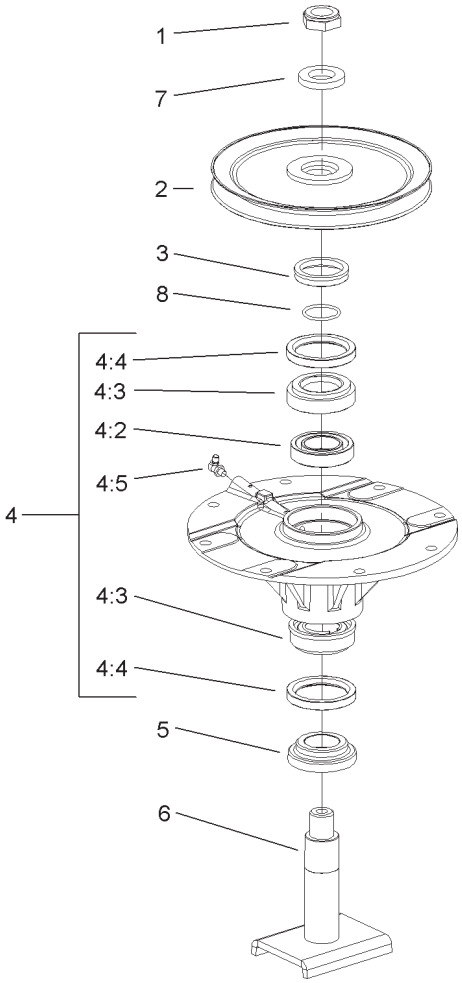
Sheet No.:A2

Hydraulic Lift Cylinder Assembly No. 105–7342

Ref. No.	Part No.	Qty.	Description
1	106–6883	1	Seal Kit
☆1:1		1	T–Seal
☆1:2		1	O–Ring
☆1:3		1	O–Ring
☆1:4		1	Backup
☆1:5		1	Rod Seal
☆1:6		1	Dust Seal
☆2		1	Nut
☆3		1	Head
☆4		1	Piston
☆5		1	Ring–Steel
☆6		1	Collar
☆7		1	Shaft W/Clevis

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

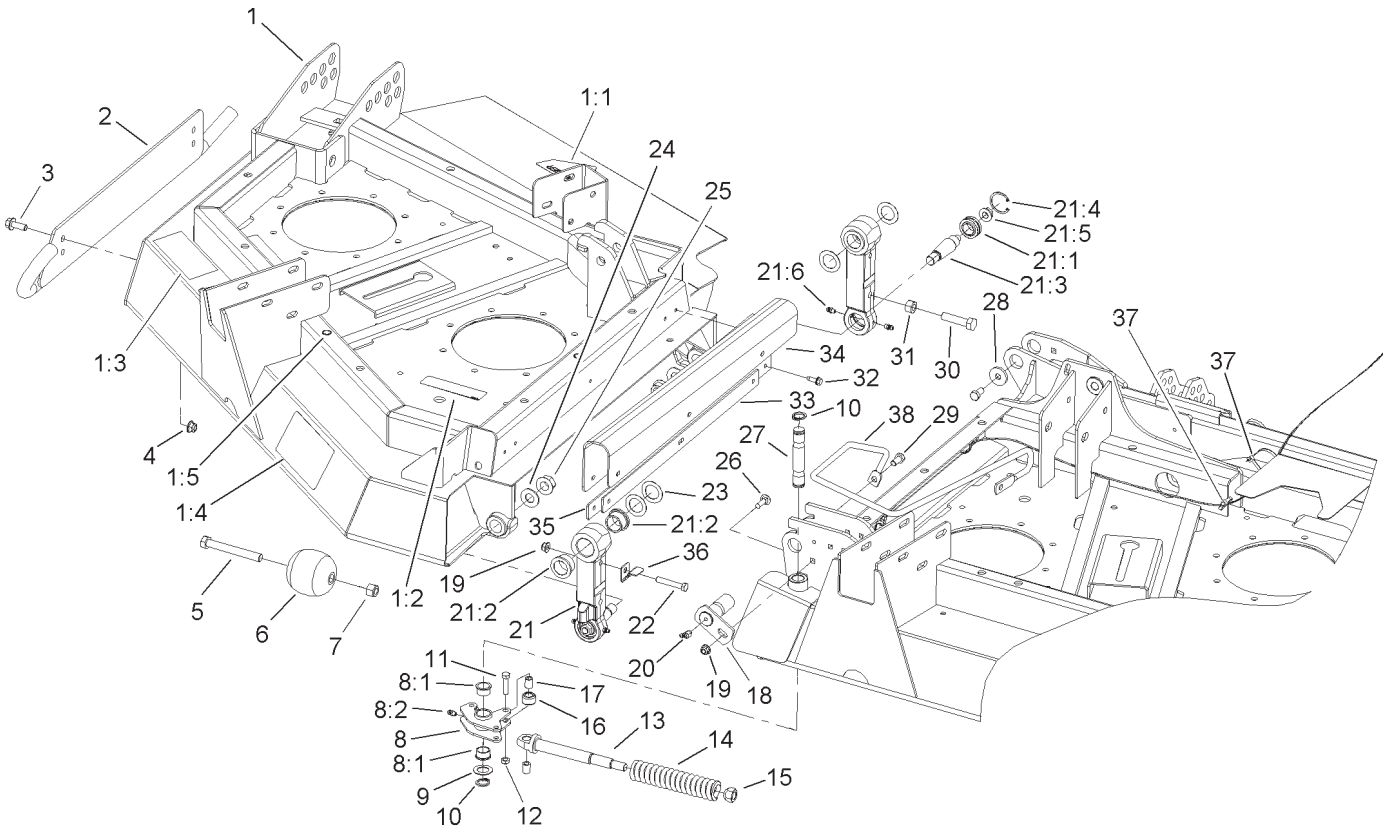


Sheet No.:A3

High Driven Spindle Assembly No. 104–3531

Ref. No.	Part No.	Qty.	Description
1	3296–60	1	Nut–Lock, NI
2	104–3548	1	Pulley–Driven, High
3	104–3564	1	Seal–V Ring
4	104–3552	1	Spindle Housing ASM
4:2	104–3549	1	Spacer Set–Bearing
4:3	26–1830	1	Bearing ASM
4:4	253–154	2	Seal–Oil
4:5	302–60	1	Fitting–Grease
5	92–9800	1	Spacer–Shaft, Spindle
6	104–3554	1	Spindle Shaft ASM
7	104–8322	1	Washer–Hardened
8	106–7159	1	O–Ring

Ref. No.	Part No.	Qty.	Description

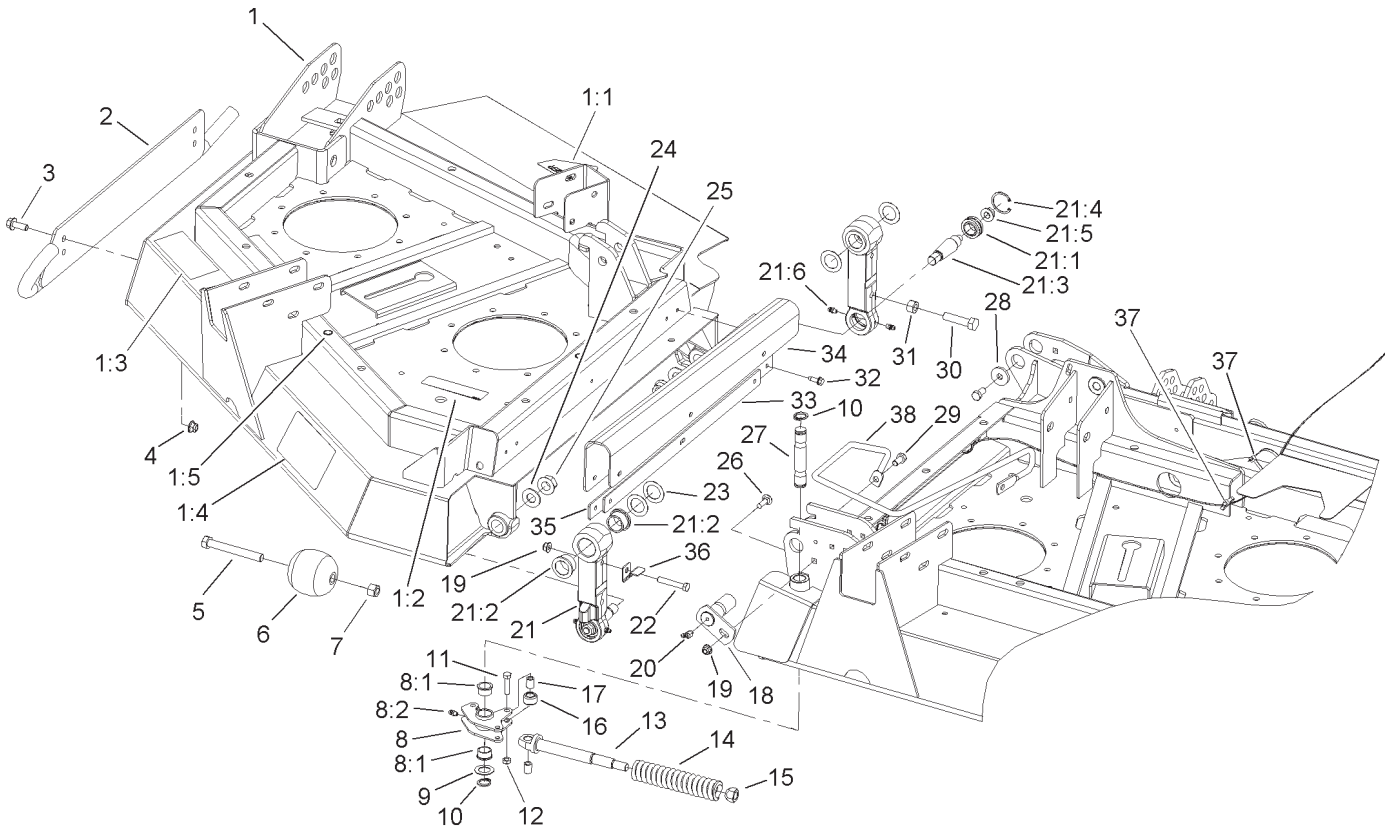


Sheet No.:3

Break Away Link Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7352	1	RH Deck ASM
1	105–7353	1	LH Deck ASM
1:1	106–6753	1	Decal–Danger
1:1	43–8480	1	Decal–Danger
1:2	100–6578	2	Decal–Danger
1:3	93–7818	1	Decal–Torque, Blade Bolt
1:4	100–5622	1	Decal–HOC
1:5	32148–9	4	Insert–Nut
2	105–7437–01	1	LH Skid ASM
2	105–7430–01	1	RH Skid ASM
3	3234–42	4	Screw–HHF
4	104–8301	4	Nut–Flange, NI
5	325–17	2	Screw–HH
6	29–4820	2	Roller
7	3296–25	2	Nut–Lock, NI
8	105–7469	2	Latch ASM
8:1	256–252	2	Bearing–Flange
8:2	302–5	1	Fitting–Grease
9	1278	2	Washer
10	32120–93	4	Ring–Retaining
11	322–6	6	Screw–HH
12	3296–47	6	Nut–Lock, NI
13	106–4317	2	Support–Spring
14	86–2560	2	Spring–Comp
15	242–50	2	Nut–Lug

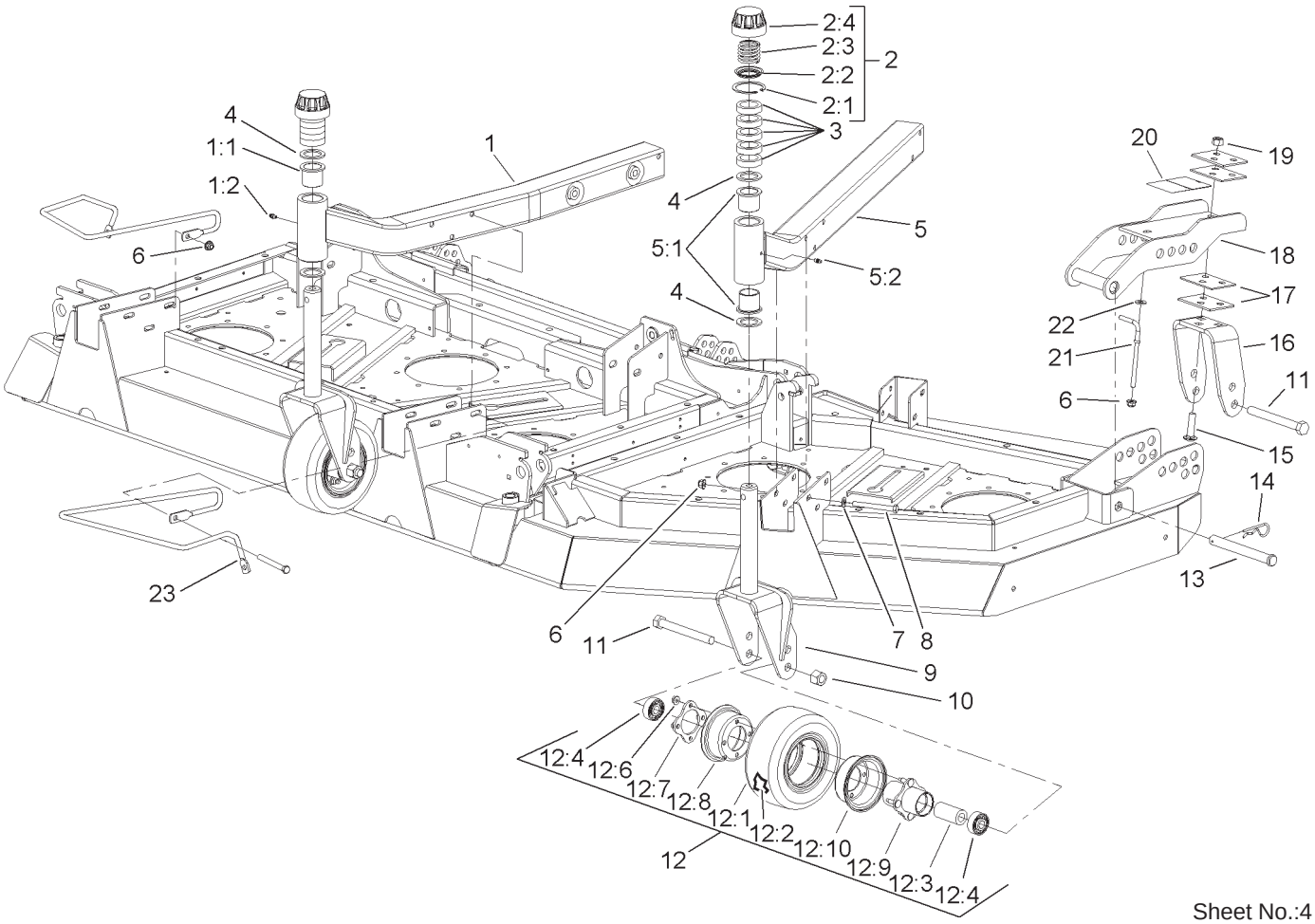
Ref. No.	Part No.	Qty.	Description
16	86–2120	4	Roller–Lock
17	86–2090	6	Bushing
18	106–7171	4	Pin Pivot ASM
19	104–8300	6	Nut–Flange, NI
20	302–11	4	Fitting–Lube, 45°
21	105–7440	4	Link ASM
21:1	105–7441	1	Bearing–Spherical
21:2	94–7574	2	Bushing–Flanged
21:3	105–7468	1	Stud–Tapered
21:4	32151–34	1	Ring–Retaining
21:5	32128–42	1	Nut–HF
21:6	302–5	2	Fitting–Grease
22	322–10	2	Screw–HH
23	256–260	8	Washer–Thrust
24	3256–27	4	Washer–Flat
25	3296–41	4	Nut–Lock, NI
26	3230–2	4	Bolt–CARR
27	105–7482	2	Pin–Latch
28	53–6380	2	Washer–Flat
29	323–4	4	Screw–HH
30	325–8	2	Screw–HH
31	3217–9	2	Nut–Hex
32	32104–95	12	Screw–HWH
33	107–0170–03	2	Strap–Wing
34	106–4334	2	Shield–Flex
35	107–0171–03	2	Strap–Shield



Break Away Link Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
36	107–0166	2	Tab–Switch
37	3290–379	4	Tie–Cable
38	107–0182	1	Guide–Hose, RH

Ref. No.	Part No.	Qty.	Description

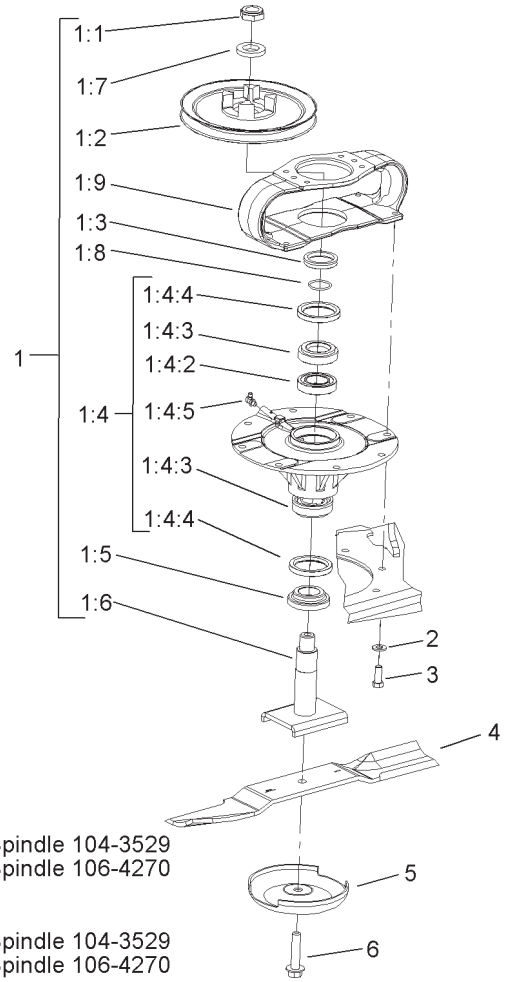


Sheet No.:4

Castor Fork Assembly

Ref. No.	Part No.	Qty.	Description
1	105–7414	2	Center Castor Arm ASM
1:1	104–8340	2	Bushing
1:2	302–5	1	Fitting–Grease
2	92–9727	4	HOC Cap ASM
2:1	92–5581	1	Ring–Retaining
2:2	92–5583	1	Washer–Cap
2:3	92–9726	1	Spring–Compression
2:4	92–8861	1	Cap–HOC
3	69–1510	20	Spacer–Castor
4	69–6860	8	Washer–Thrust
5	105–7429	2	Side Castor Arm ASM
5:1	104–8340	2	Bushing
5:2	302–5	1	Fitting–Grease
6	104–8301	22	Nut–Flange, NI
7	3256–24	18	Washer–Flat
8	323–15	20	Screw–HH
9	92–7750–01	4	Fork–Castor
10	3296–53	6	Nut–Lock, NI
11	327–24	6	Screw–HH
12	93–9938	6	8in Wheel ASM
12:1	93–9939	1	Tire
12:2	68–8950	1	Tube–Inner (W/Valve)
12:3	93–4241	1	Spacer–Bearing, Inner
12:4	93–4237	2	Bearing
12:6	32128–16	4	Nut–HHF

Ref. No.	Part No.	Qty.	Description
12:7	93–4242	1	Plate
12:8	93–4239	1	Rim–Wheel, Half
12:9	93–5980	1	Hub
12:10	95–2741	1	Rim–Wheel, Half
13	100–5569	4	Pin–Clevis
14	3290–343	4	Pin–Hair
15	3233–4	6	Screw–CARR
16	105–7457–01	2	Fork–Rear
17	104–7524	8	Shim
18	104–7529–01	2	Castor Bracket ASM
19	3296–25	6	Nut–Lock, NI
20	100–5623	1	Decal–HOC
20	104–3579	1	Decal–HOC
21	106–2047	2	Rod–Tension
22	3256–3	2	Washer–Flat
23	107–0183	1	Guide–Hose, LH



Note
Item 1:2:
104-3545 is used on Spindle 104-3529
106-4269 is used on Spindle 106-4270

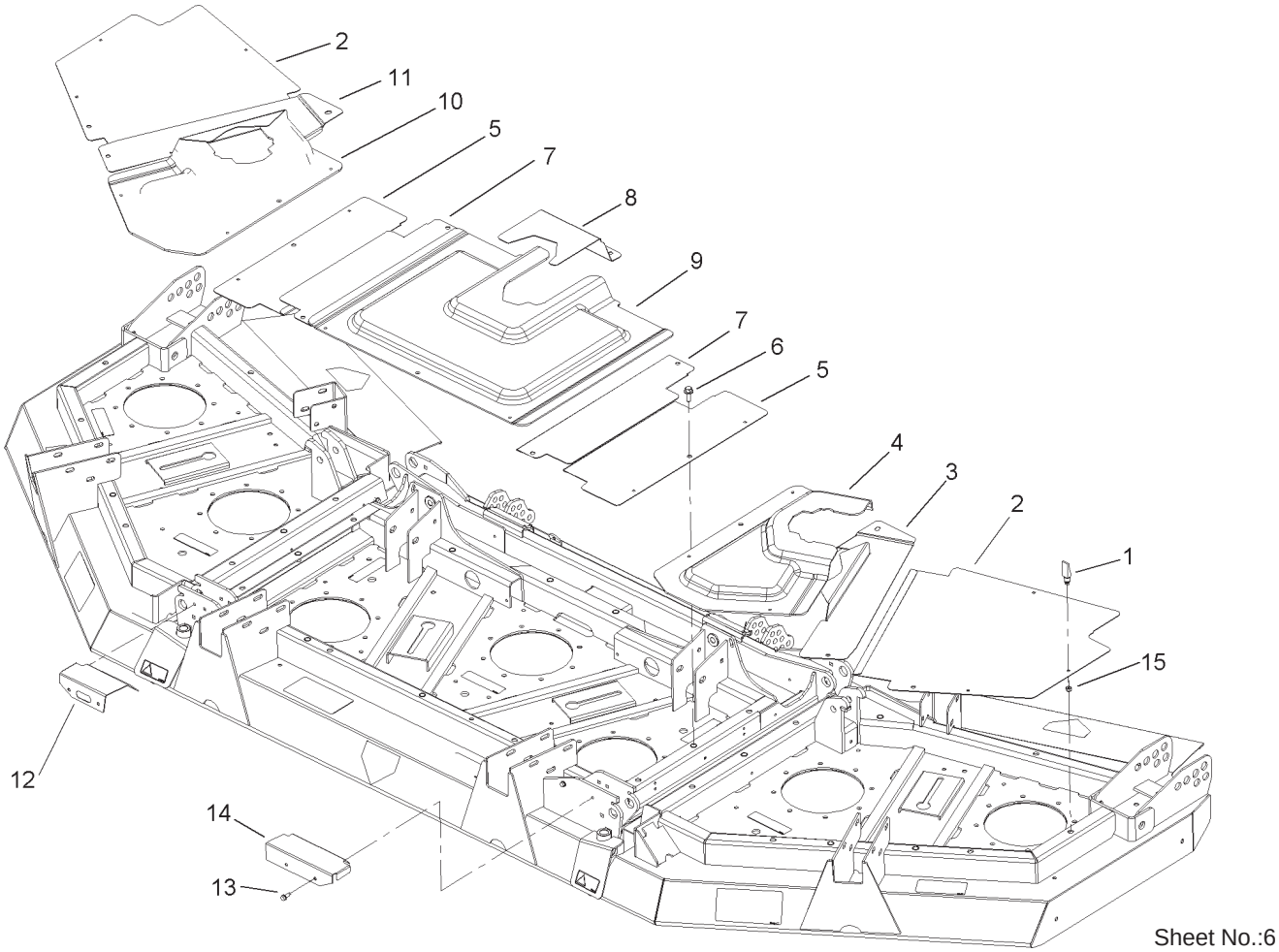
Item 1:9
104-3544 is used on Spindle 104-3529
106-4268 is used on Spindle 106-4270

Sheet No.:5

Spindle Assembly

Ref. No.	Part No.	Qty.	Description
1	106–4270	1	Double Drive Spindle ASM
1	104–3529	2	Driving Spindle ASM
1:1	3296–60	1	Nut–Lock, NI
1:2	104–3545	1	Pulley–Driving
1:2	106–4269	1	Pulley–Drive, Double
1:3	104–3564	1	Seal–V Ring
1:4	104–3552	1	Spindle Housing ASM
1:4:2	104–3549	1	Spacer Set–Bearing
1:4:3	26–1830	1	Bearing ASM
1:4:4	253–154	2	Seal–Oil
1:4:5	302–60	1	Fitting–Grease
1:5	92–9800	1	Spacer–Shaft, Spindle
1:6	104–3554	1	Spindle Shaft ASM
1:7	104–8322	1	Washer–Hardened
1:8	106–7159	1	O–Ring
1:9	104–3544	1	Mount–Motor, Drive
1:9	106–4268	1	Mount–Motor, Drive
2	3256–24	12	Washer–Flat
3	323–6	12	Screw–HH
4	106–7166–03	7	Blade–Combination
5	72–9361	7	Cup–Scalp, Anti
6	92–5816	7	Bolt–Blade

Ref. No.	Part No.	Qty.	Description

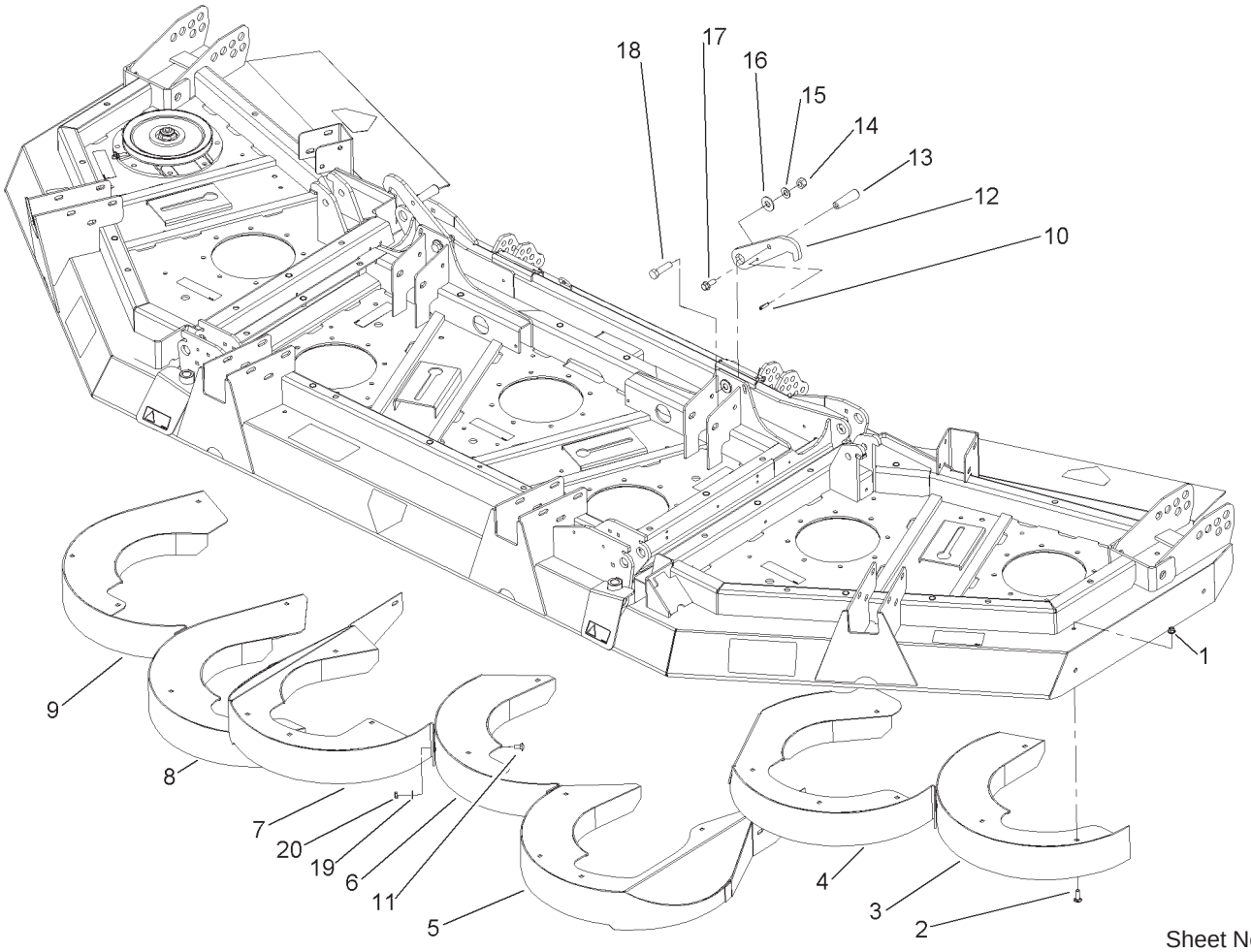


Sheet No.:6

Deck Cover Assembly

Ref. No.	Part No.	Qty.	Description
1	74–5950	18	Latch–Swell
2	106–4256–03	2	Cover–Outer, Wing
3	106–4258–03	1	Cover–Inner, LH
4	106–4260	1	Cover–Mount, LH
5	106–4252–03	2	Cover–Outer, Center
6	3234–42	17	Screw–HHF
7	106–4255–03	2	Cover–Inner, Center
8	106–4253–03	1	Cover–Rear, Center
9	106–4254	1	Cover–Front, Center
10	106–4259	1	Cover–Mount, RH
11	106–4257–03	1	Cover–Inner, RH
12	106–7173–01	1	Shield–RH
13	32104–95	4	Screw–HWH
14	106–7174–01	1	Shield–LH
15	1–804254	18	Nut

Ref. No.	Part No.	Qty.	Description



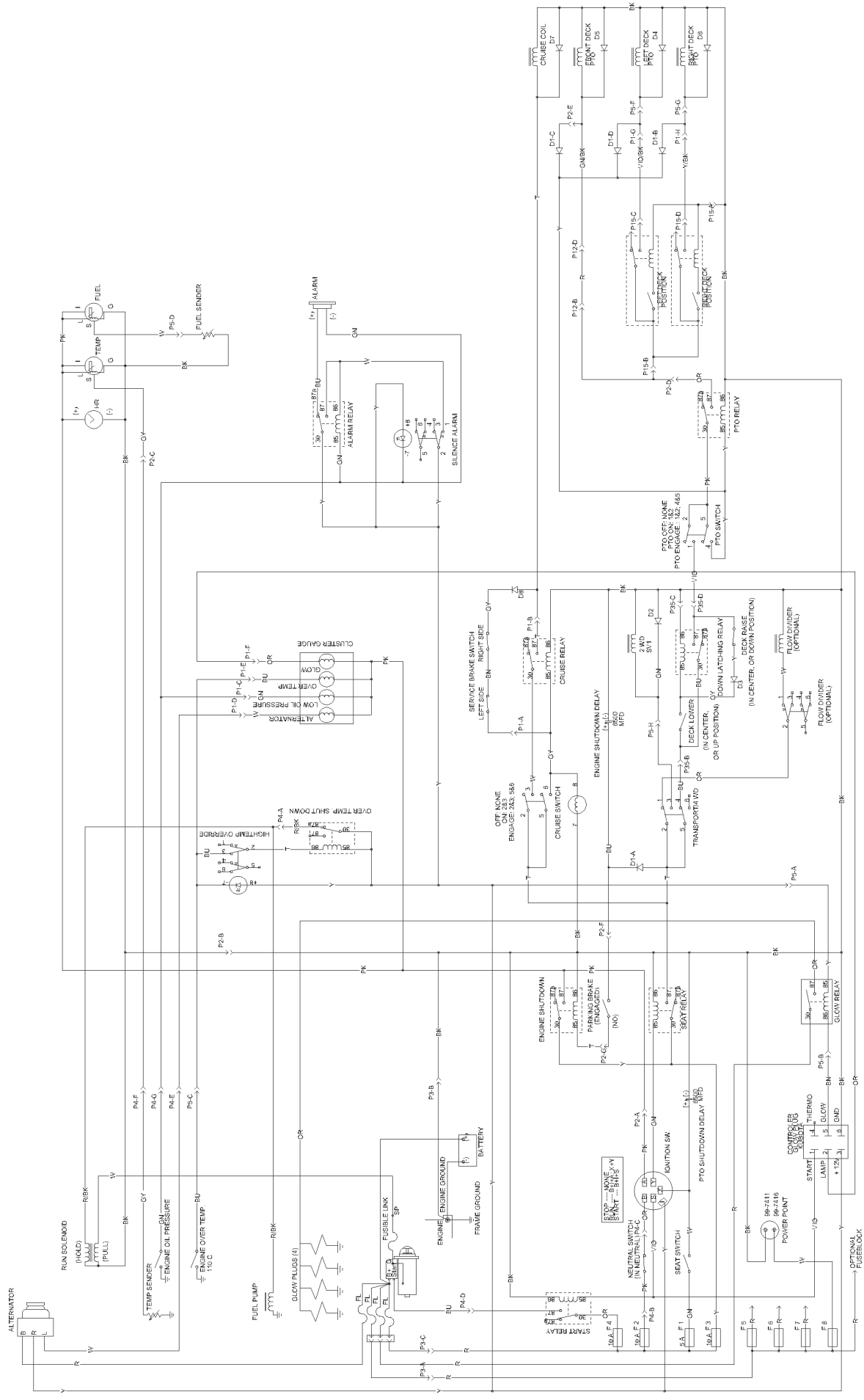
Sheet No.:7

Rear Discharge Baffle Assembly

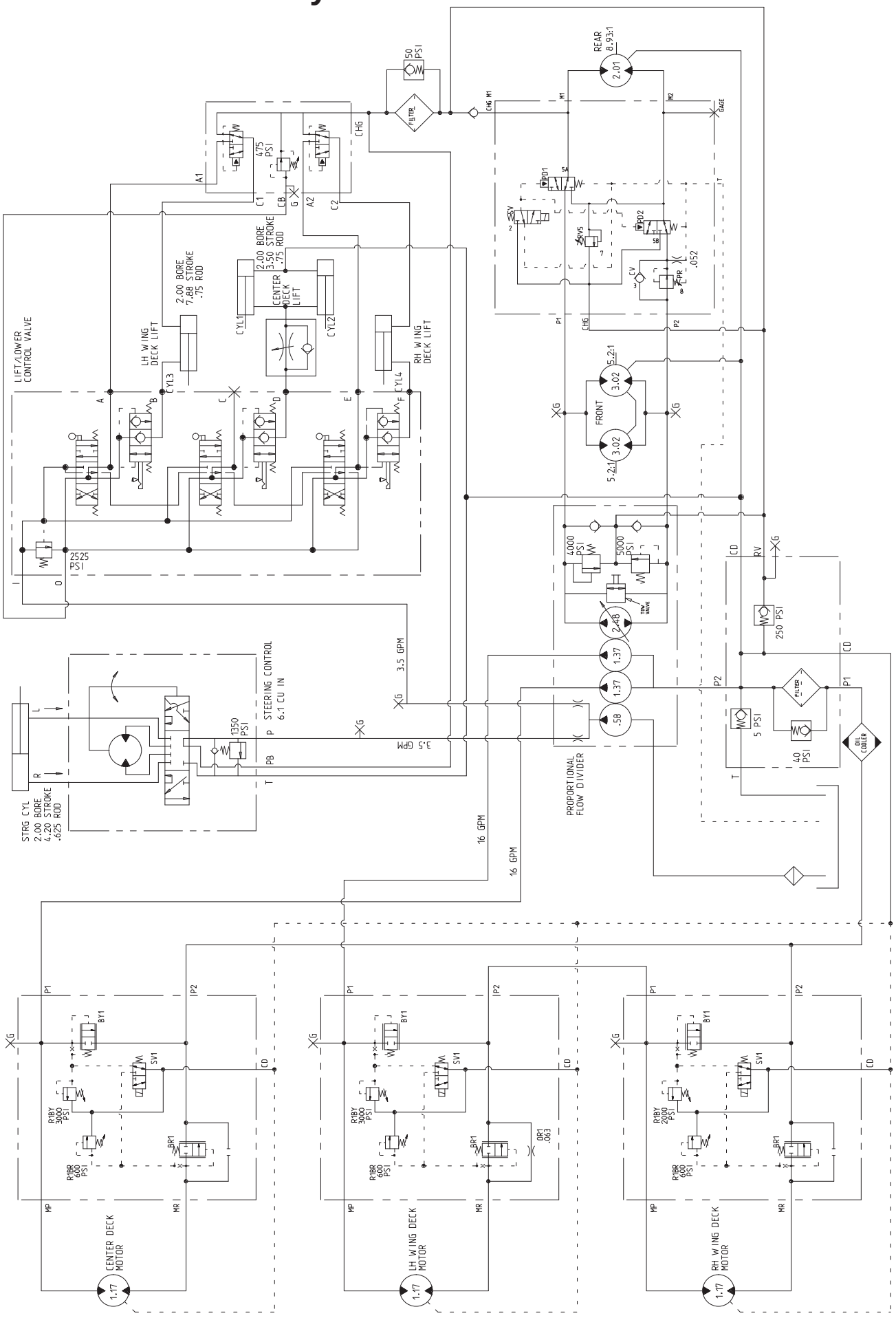
Ref. No.	Part No.	Qty.	Description
1	104–8300	21	Nut–Flange, NI
2	3230–22	21	Screw–CARR
3	106–4308–01	1	LH Out Chamber ASM
4	106–4304–01	1	LH Inside Chamber ASM
5	106–4291–01	1	LH Center Chamber ASM
6	106–4294–01	1	Center Chamber ASM
7	106–4286–01	1	RH Center Chamber ASM
8	106–4298–01	1	RH Inside Chamber ASM
9	106–4301–01	1	RH Out Chamber ASM
10	32121–24	2	Pin–Spring
11	3230–18	4	Screw–CARR
12	106–4340–01	2	Latch–Wing
13	233–39	2	Knob–Control
14	3296–25	2	Nut–Lock, NI
15	3290–483	2	Washer–Conical
16	3256–6	2	Washer–Flat
17	3234–11	2	Screw–HHF
18	325–8	2	Screw–HH
19	3256–23	4	Washer–Flat
20	3296–47	4	Nut–Lock, NI

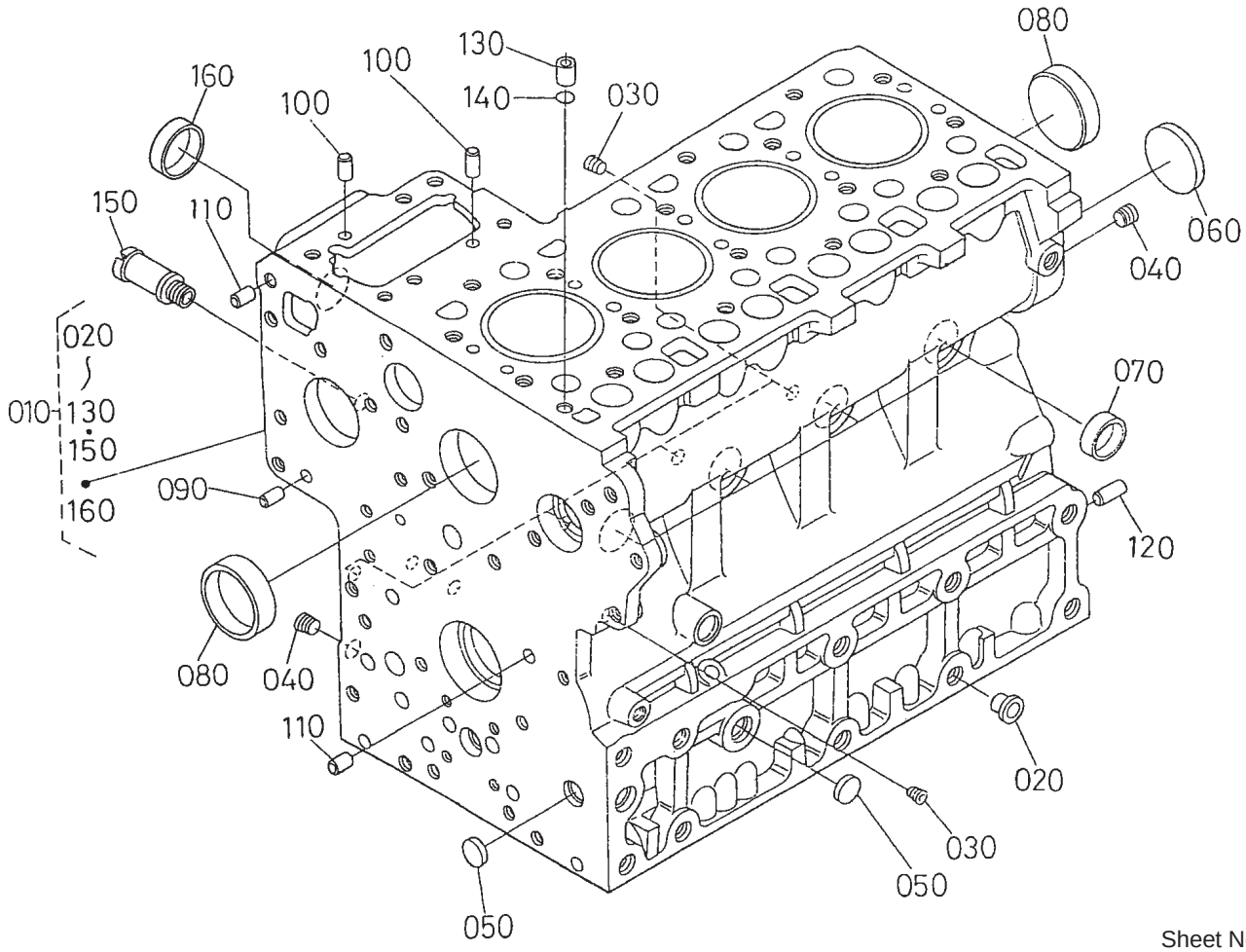
Ref. No.	Part No.	Qty.	Description

Electrical Schematic



Hydraulic Schematic



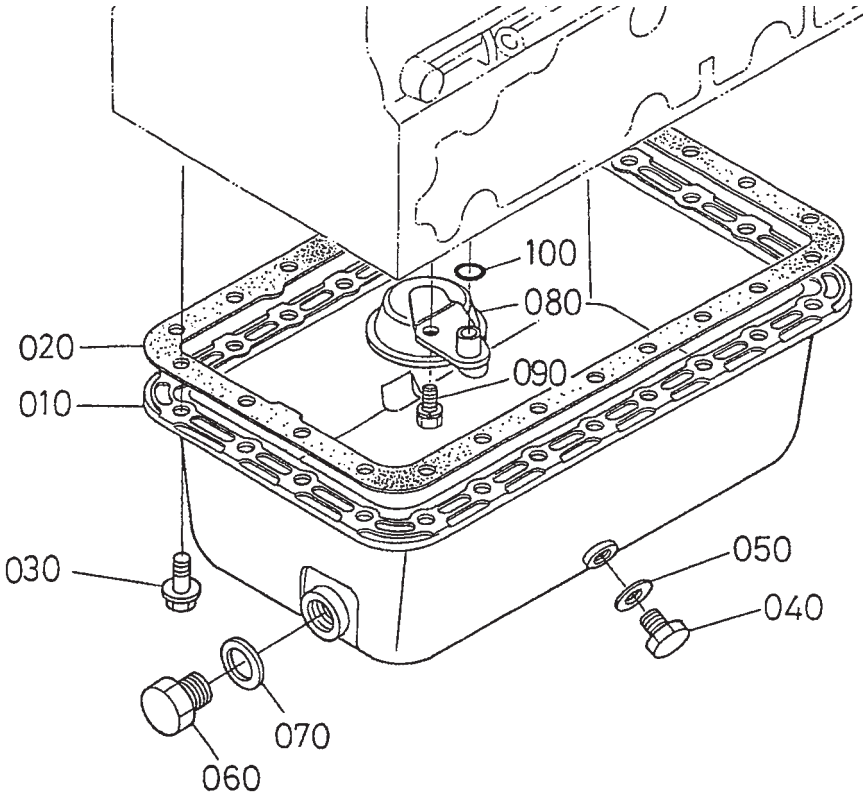


Sheet No.:40

Crankcase Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9150	1	Crankcase
20	98–7486	2	Plug
30	98–7487	6	Plug
40	107–0107	2	Plug
50	98–7489	3	Plug
60	98–7490	1	Plug
70	98–7500	6	Cap–Sealing
80	98–7501	2	Cap–Sealing
90	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

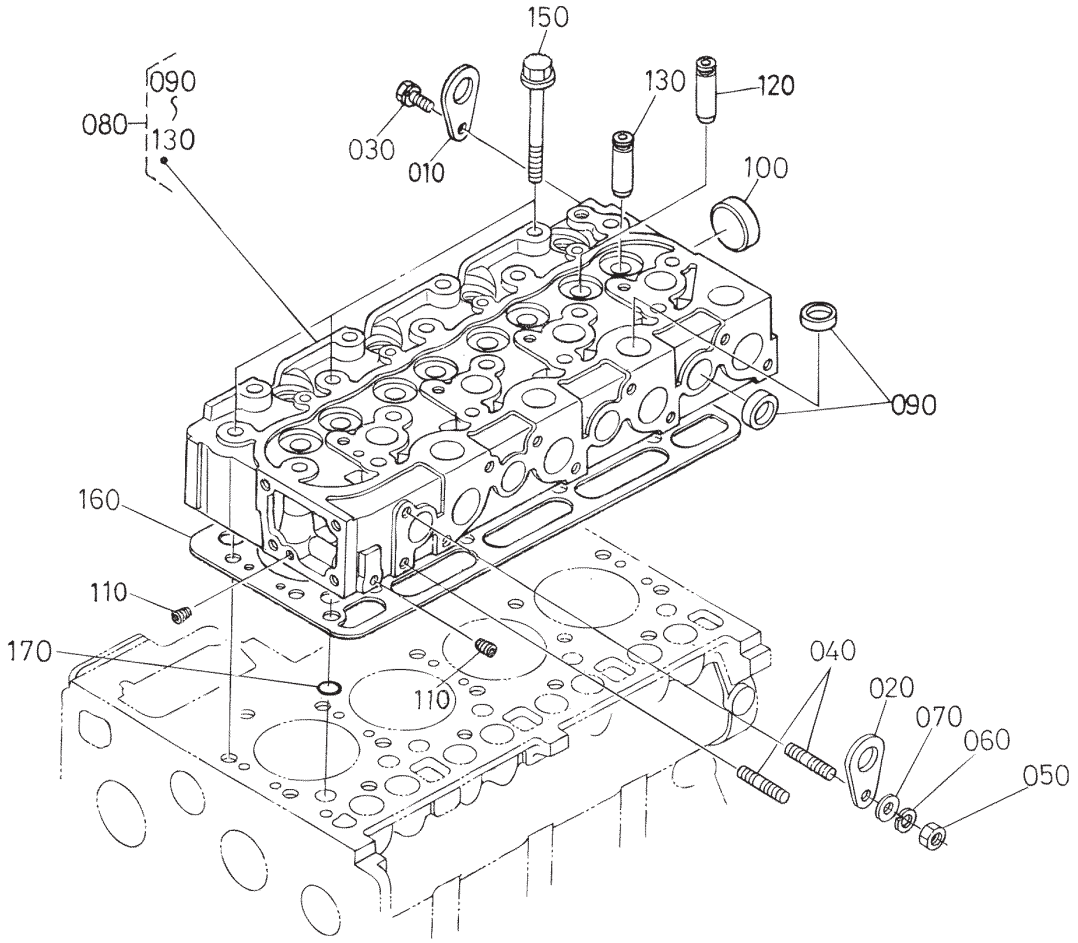


Sheet No.:41

Oil Pan Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7520	1	Pan–Oil
20	98–7521	1	Gasket
30	98–7522	24	Bolt–Flange
40	98–9386	1	Plug
50	98–7524	1	Gasket
60	98–7529	1	Plug–Drain
70	98–7528	1	O–Ring
80	98–7525	1	Filter–Oil
90	100–9192	1	Bolt
100	107–0101	1	O–Ring

Ref. No.	Part No.	Qty.	Description

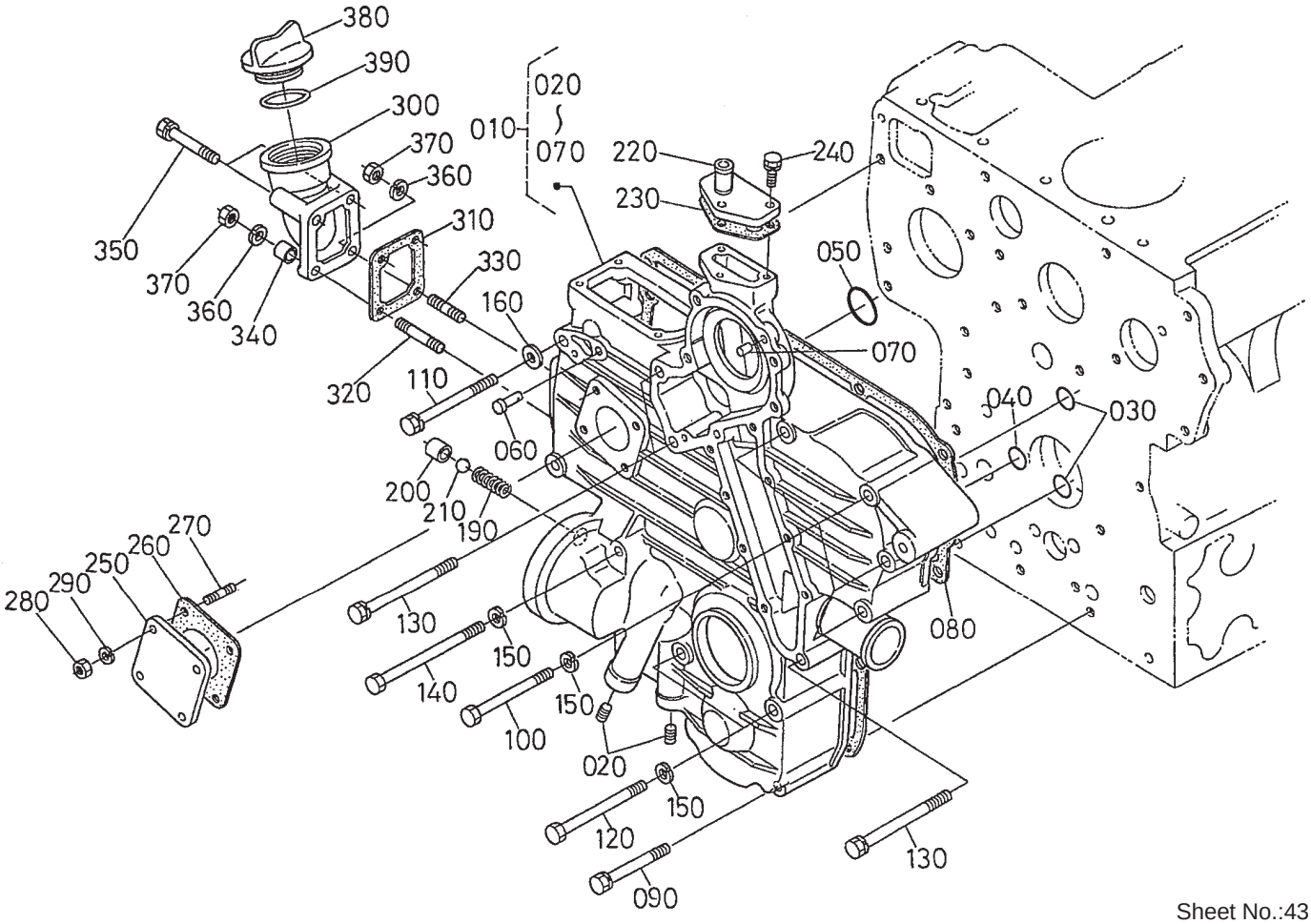


Sheet No.:42

Cylinder Head Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7530	1	Hook–Engine
20	98–7531	1	Hook–Engine
30	100–9192	1	Bolt
40	98–7533	2	Stud
50	100–1559	1	Nut–Manifold, Exhaust
60	105–2893	1	Washer–Spring
70	98–7536	1	Washer–Plain
80	100–9159	1	Head–Cylinder
90	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

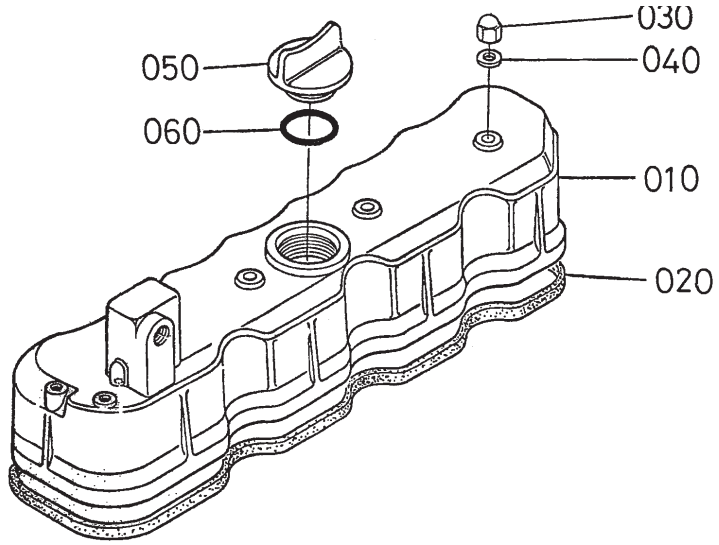


Sheet No.:43

Gear Case Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9161	1	Gearcase ASM
20	107–0108	2	Plug
30	107–0104	2	O–Ring
40	107–0105	1	O–Ring
50	107–0106	1	O–Ring
60	98–7550	1	Pin–Spring, Start
70	98–7504	2	Pin–Straight
80	98–7552	1	Packing–Case, Gear
90	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	105–2893	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	107–0102	1	O–Ring

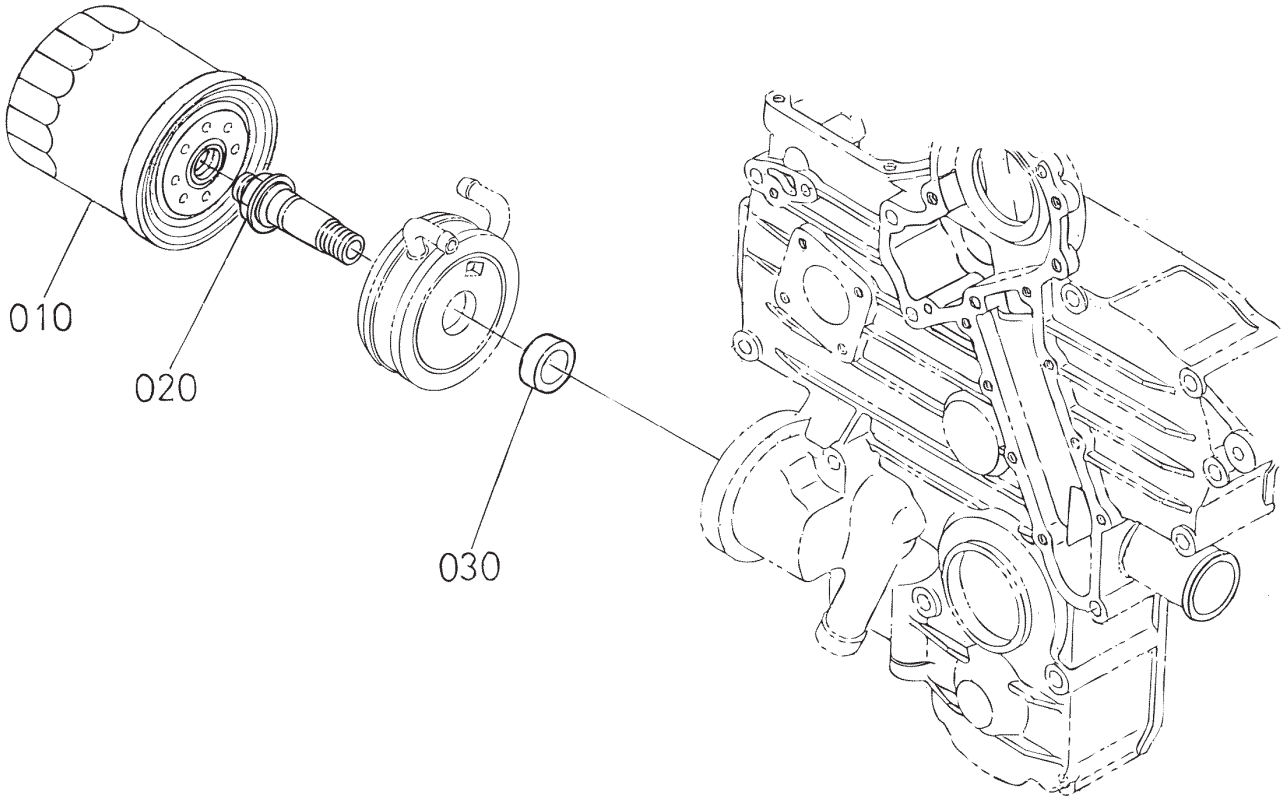


Sheet No.:44

Head Cover Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7425	1	Cover–Head, Cylinder
20	98–7426	1	Gasket–Cover, Head
30	98–7427	4	Nut–Cap
40	98–7428	4	Gasket
50	98–7429	1	Plug–Filter, Oil
60	107–0102	1	O–Ring

Ref. No.	Part No.	Qty.	Description

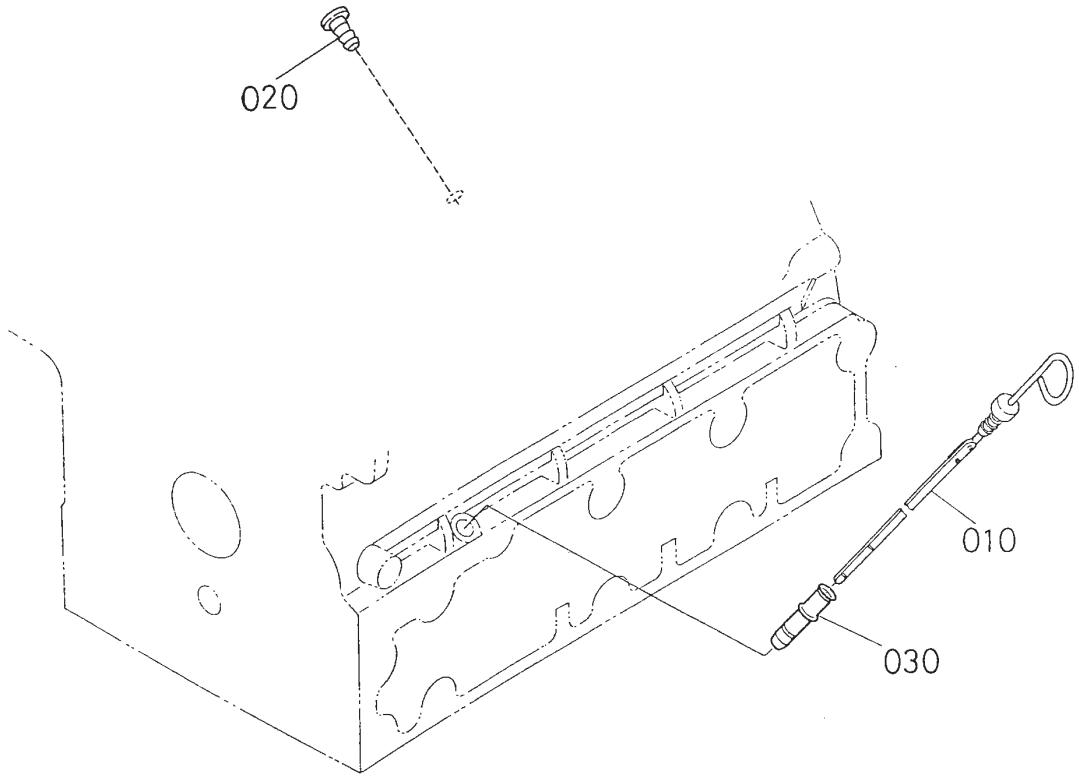


Sheet No.:45

Oil Filter Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7431	1	Cartridge–Filter, Oil
20	100–9166	1	Connector
30	100–9167	1	Collar

Ref. No.	Part No.	Qty.	Description

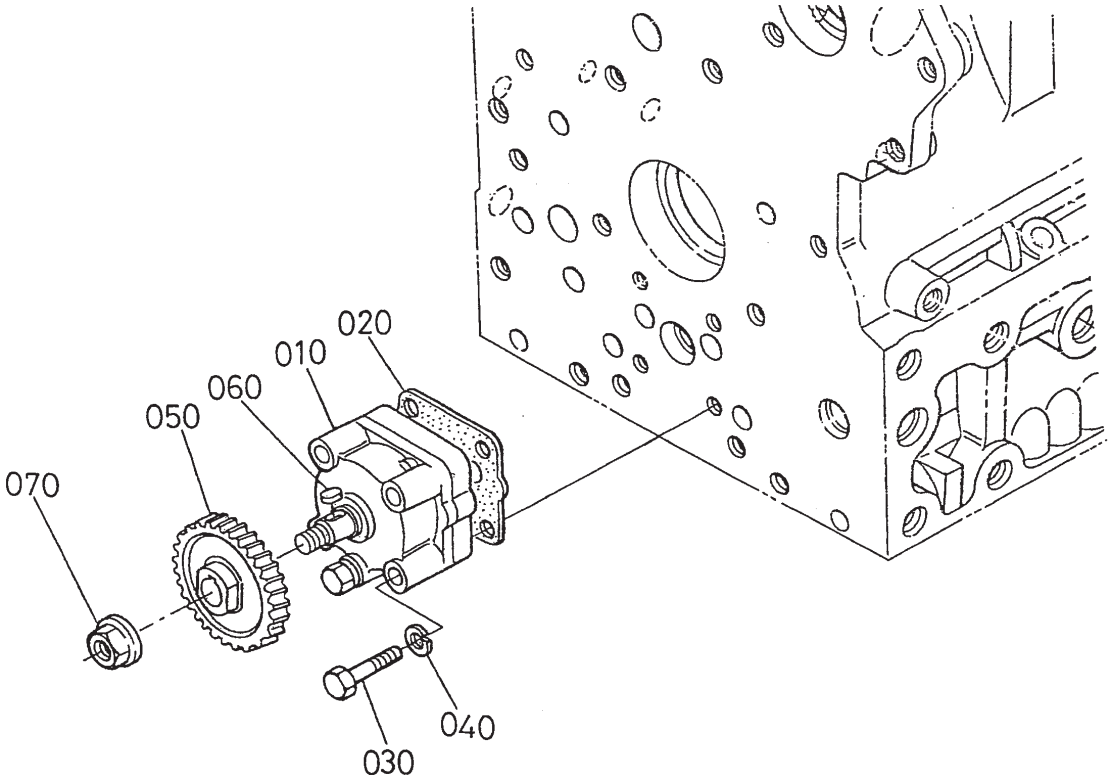


Sheet No.:46

Dipstick and Guide Assembly

Ref. No.	Part No.	Qty.	Description
10	105–4579	1	Gauge–Oil
20	100–9169	1	Plug–Gauge, Oil
30	105–4580	1	Guide

Ref. No.	Part No.	Qty.	Description

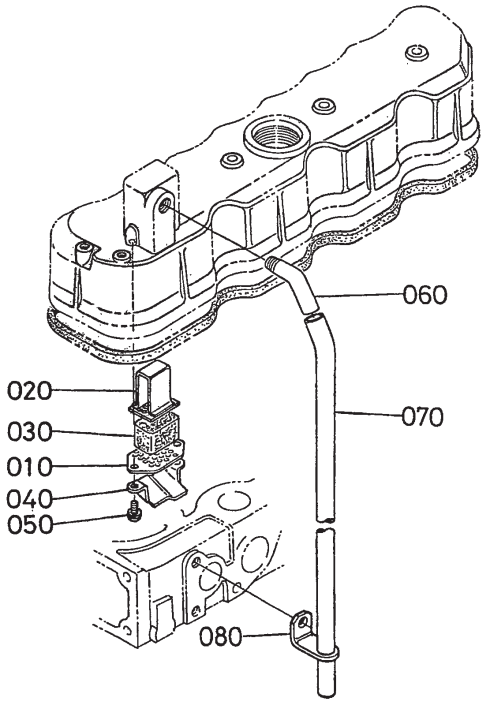


Sheet No.:47

Oil Pump Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9170	1	Oil Pump ASM
20	98–7513	1	Gasket–Pump, Oil
30	98–7514	4	Bolt
40	98–7699	4	Washer–Spring
50	98–7516	1	Gear–Drive, Oil Pump
60	98–7517	1	Key–Feather
70	98–7518	1	Nut–Flange

Ref. No.	Part No.	Qty.	Description

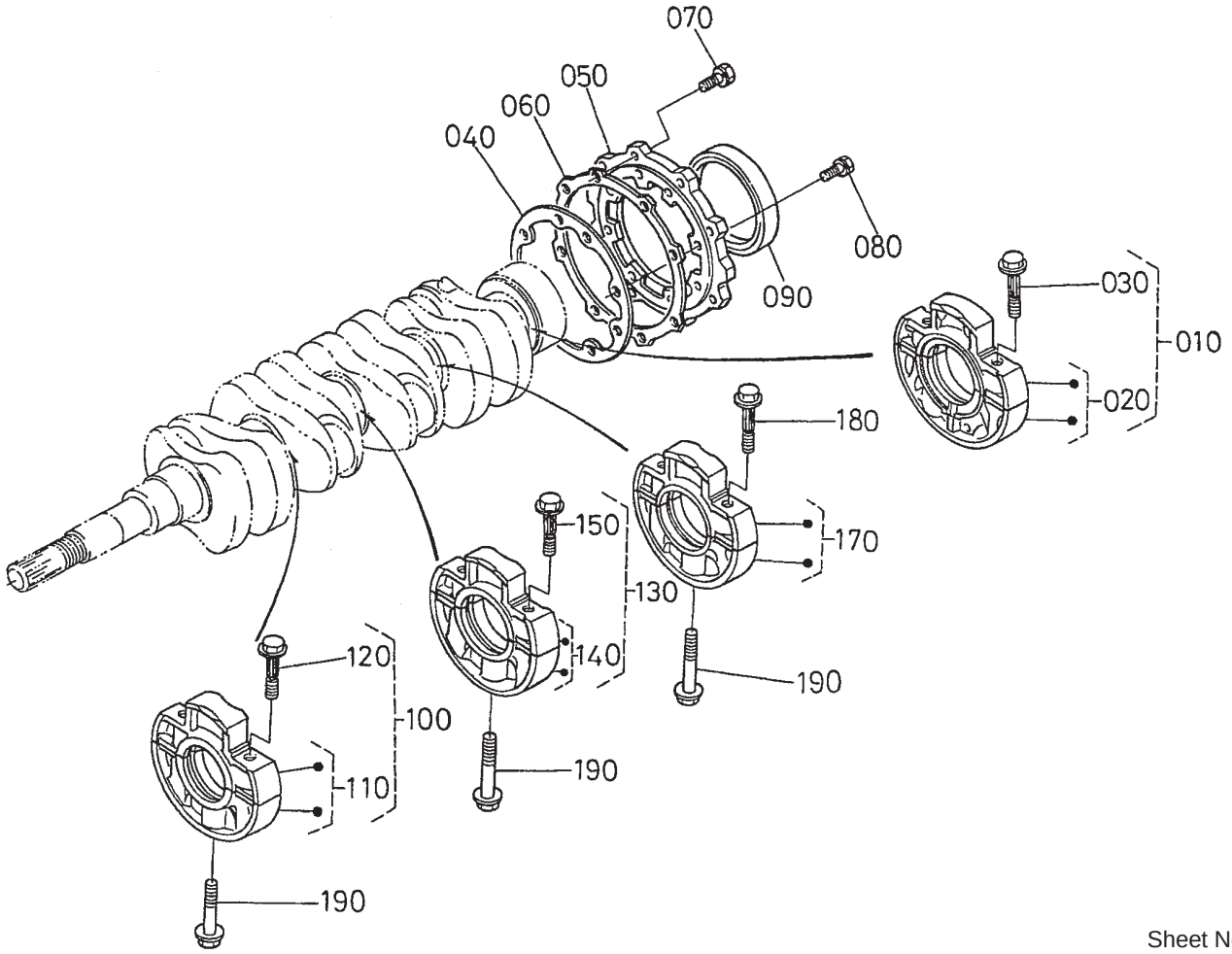


Sheet No.:48

Breather Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7417	1	Plate–Element
20	98–7418	1	Plate–Element
30	98–7419	1	Element–Breather
40	98–7420	1	Shield–Breather, Oil
50	98–7421	2	Screw–W/Washer
60	98–7422	1	Joint–Pipe, Breather
70	98–7423	1	Pipe–Breather
80	98–7424	1	Clamp–Pipe

Ref. No.	Part No.	Qty.	Description

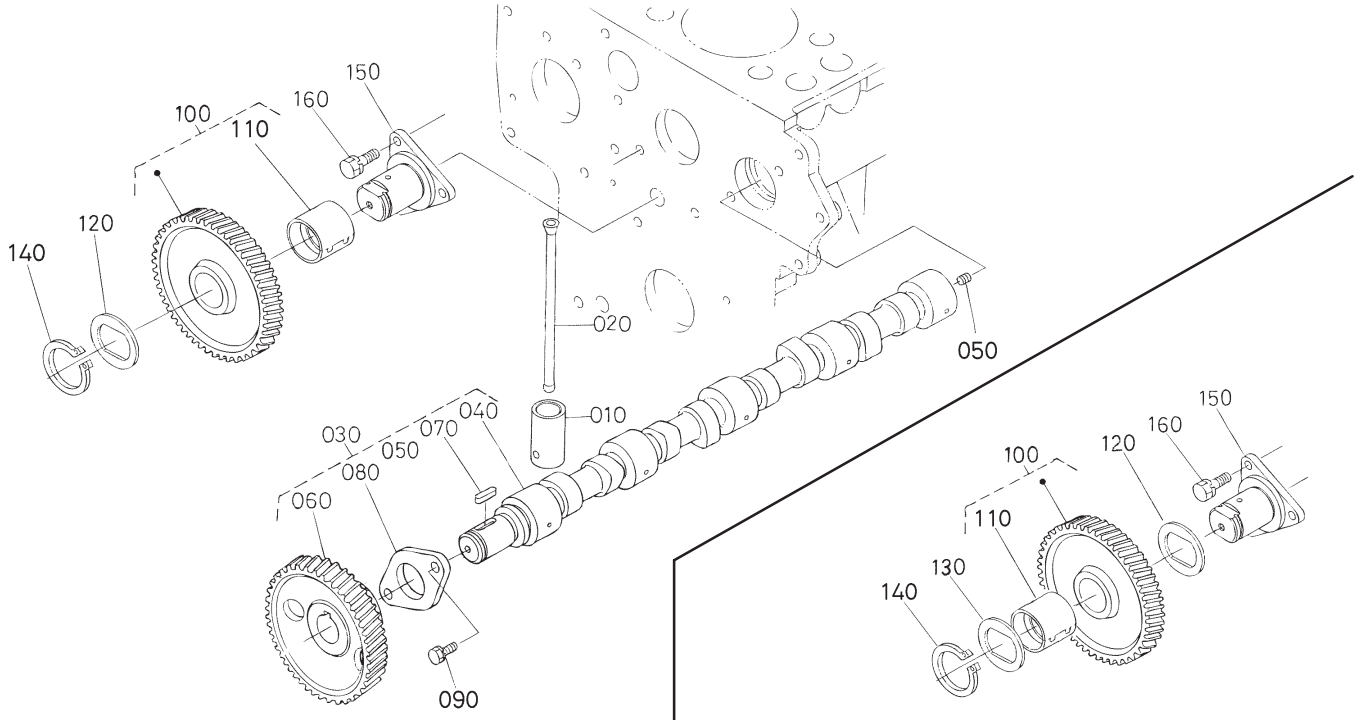


Sheet No.:49

Main Bearing Case

Ref. No.	Part No.	Qty.	Description
10	100–9172	1	Wheel Bearing Case ASM
20	100–9173	1	Bearing Case ASM
30	98–7434	2	Bolt–Case, Bearing
40	98–7435	1	Gasket–Case, Bearing
50	98–7436	1	Cover–Case, Bearing
60	98–7437	1	Gasket–Case Cover, Bearing
70	98–7438	8	Bolt
80	98–7439	8	Bolt
90	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



Ref. No.	Part No.	Engine Serial #
100	107–0109	(2A0001 or newer)
110	107–0110	(1Y0001 or newer)
120	107–0111	(1Y0001 or newer)
140	107–0112	(1Y0001 or newer)
150	107–0113	(1Y0001 or newer)

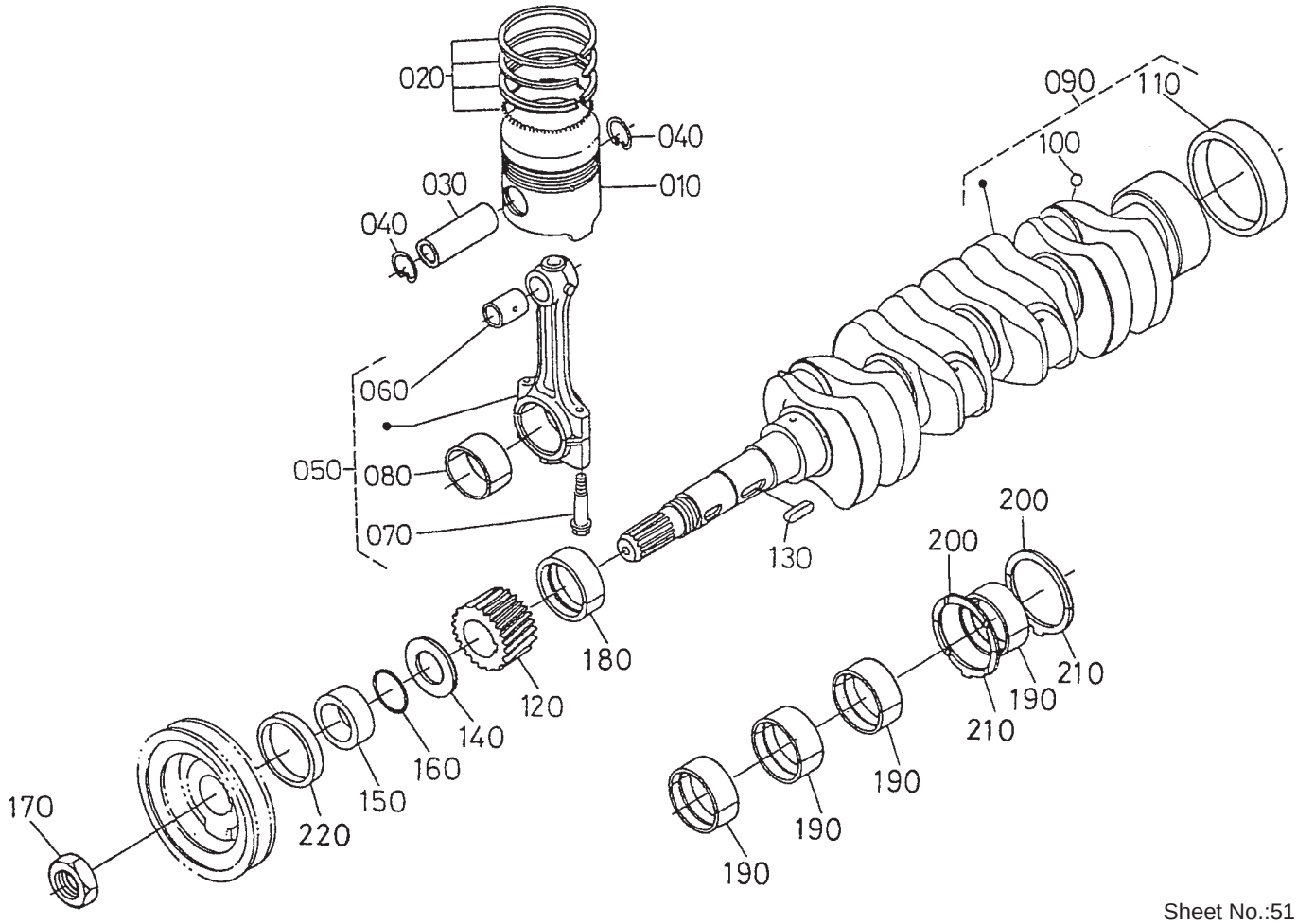
Ref. No.	Part No.	Engine Serial #
100	98–7454	(1W1377 or earlier)
110	98–7455	(1W1377 or earlier)
120	98–7456	(1W1377 or earlier)
140	98–7458	(1W1377 or earlier)
150	98–7459	(1W1377 or earlier)

Sheet No.:50

Camshaft and Idler Gear Shaft Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7445	8	Tappet
20	98–7446	8	Rod–Push
30	100–9179	1	Camshaft ASM
40	100–9180	1	Camshaft
50	98–7449	1	Screw–Set
60	98–7450	1	Gear–Camshaft
70	98–7451	1	Key–Feather
80	98–7452	1	Stopper–Camshaft
90	98–7453	2	Bolt
100	98–7454	1	Gear–Idler, Complete
100	107–0109	1	Gear–Idler, Complete
110	98–7455	1	Bushing–Gear, Idler
110	107–0110	1	Bushing–Idler Gear
120	98–7456	1	Collar
120	107–0111	1	Collar
130	98–7457	1	Collar
140	98–7458	1	Clip–Cir., External
140	107–0112	1	Clip–Cir., External
150	98–7459	1	Shaft–Gear, Idler
150	107–0113	1	Shaft–Gear, Idler
160	98–7453	3	Bolt

Ref. No.	Part No.	Qty.	Description

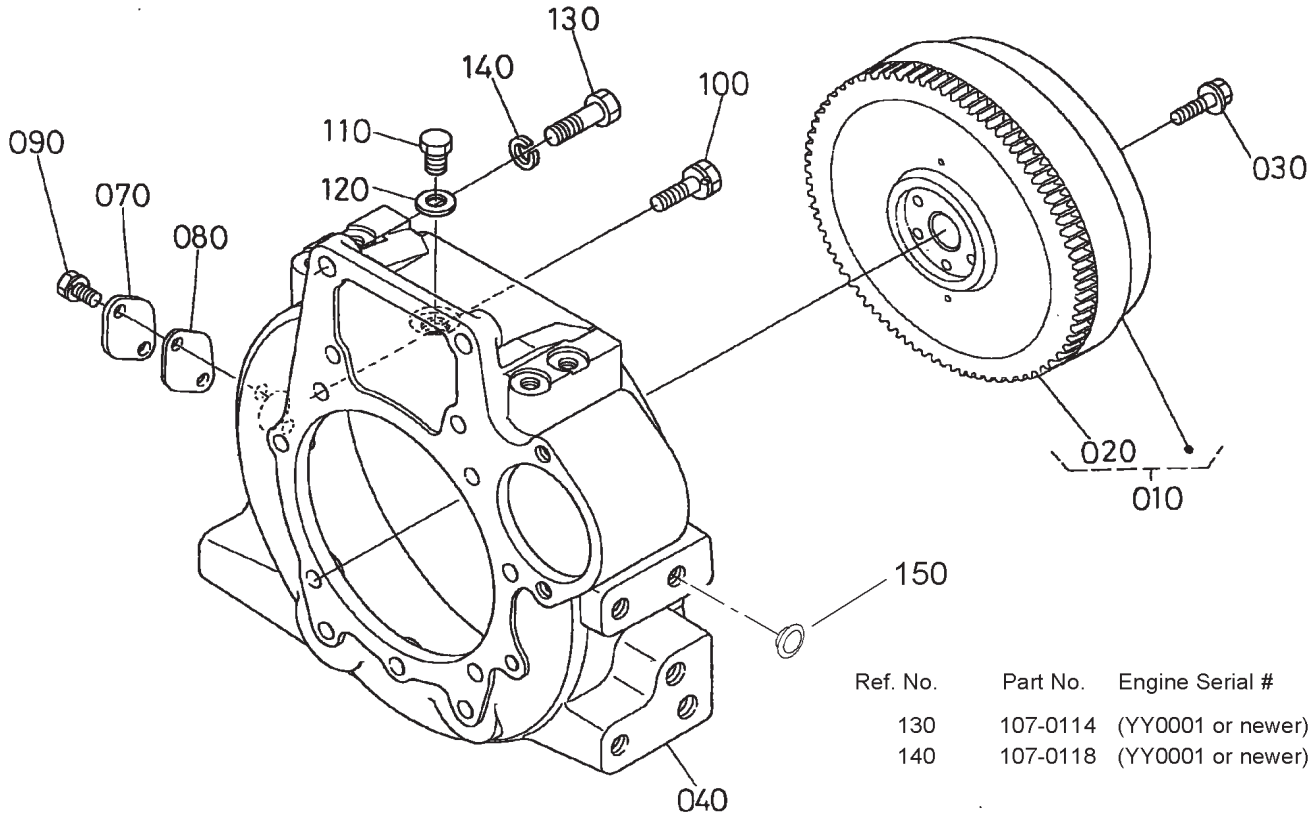


Sheet No.:51

Piston and Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
10	99–5435	1	Piston (.50mm)
10	100–9181	4	Piston–STD
20	100–9182	4	Piston Ring ASM (STD)
20	99–5436	1	Piston Ring ASM (0.50mm)
30	98–7464	4	Pin–Piston
40	98–7465	8	Clip–Pin, Piston
50	98–7466	4	Connecting Rod ASM
60	98–7467	4	Bushing–Pin, Piston
70	98–7468	8	Bolt–Rod, Connecting
80	98–7470	4	Metal–Crankpin (–0.20mm)
80	98–7471	4	Metal–Crankpin (–0.40mm)
80	98–7469	4	Metal–Crankpin (STD)
90	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	98–7481	1	Metal–Crankshaft (STD)
180	98–7482	1	Metal–Crankshaft (–0.20mm)
180	98–7483	1	Metal–Crankshaft (–0.40mm)
190	98–7484	4	Metal–Crankshaft (STD)
190	99–6862	4	Metal–Crankshaft (–0.20mm)
190	99–6863	4	Metal–Crankshaft (–0.40mm)
200	99–6864	2	Metal–Side (STD)
200	98–9414	2	Bearing–Thrust (0.2mm)
200	98–9415	2	Bearing–Thrust (0.4mm)
210	99–6867	2	Metal–Side (STD)
210	98–9689	2	Bearing–Thrust (0.2mm)
210	99–6869	2	Metal–Side, O/S (0.4mm)
220	98–7480	1	Seal–Oil



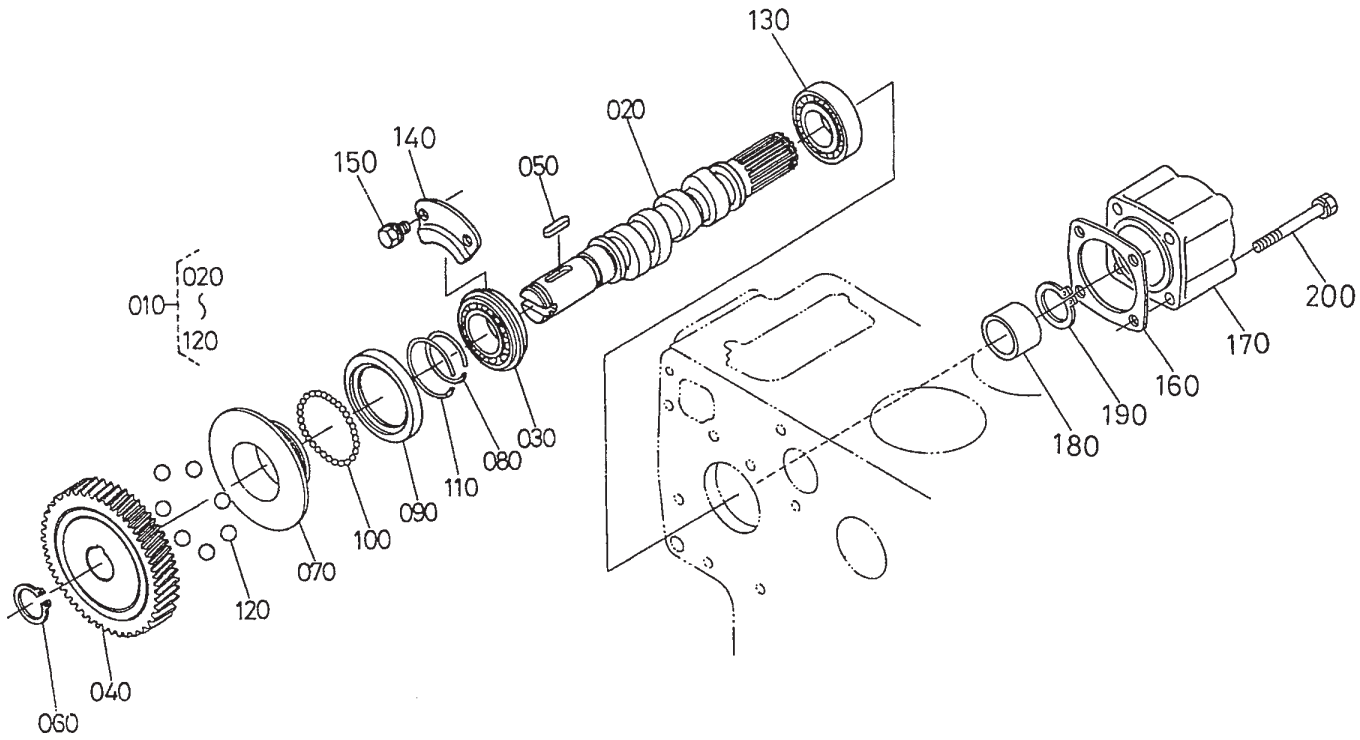
Ref. No.	Part No.	Engine Serial #
130	107-0114	(YY0001 or newer)
140	107-0118	(YY0001 or newer)

Sheet No.:52

Flywheel Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7532	1	Flywheel
20	98–7560	1	Gear–Ring
30	98–7573	6	Bolt–Flywheel
40	98–7559	1	Housing–Flywheel
70	98–7883	1	Cover
80	98–7886	1	Gasket
90	105–4577	2	Bolt
100	98–7885	11	Bolt
110	98–7546	1	Plug
120	100–9194	1	Washer–Plain
130	107–0114	2	Bolt
140	107–0118	2	Washer–Spring
150	93–5992	2	Plug

Ref. No.	Part No.	Qty.	Description

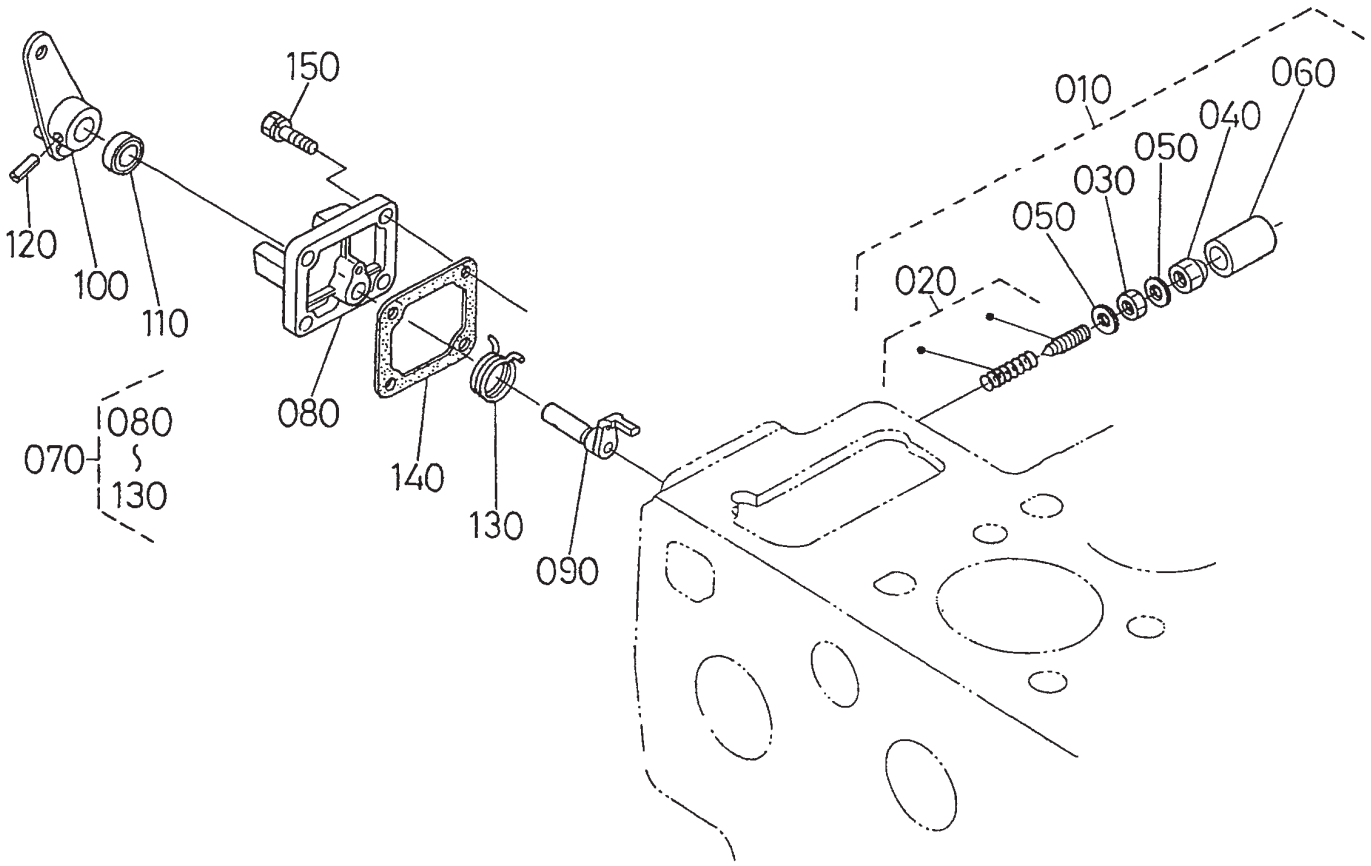


Sheet No.:53

Fuel Camshaft and Governor Shaft Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7551	1	Fuel Camshaft ASM
20	98–7508	1	Camshaft–Fuel
30	98–7595	1	Bearing–Ball
40	98–7574	1	Gear–Pump, Injection
50	98–7575	1	Key–Feather
60	98–7576	1	Clip–Cir., External
70	98–7577	1	Sleeve–Governor
80	98–7578	1	Clip–Cir., Governor Sleeve
90	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

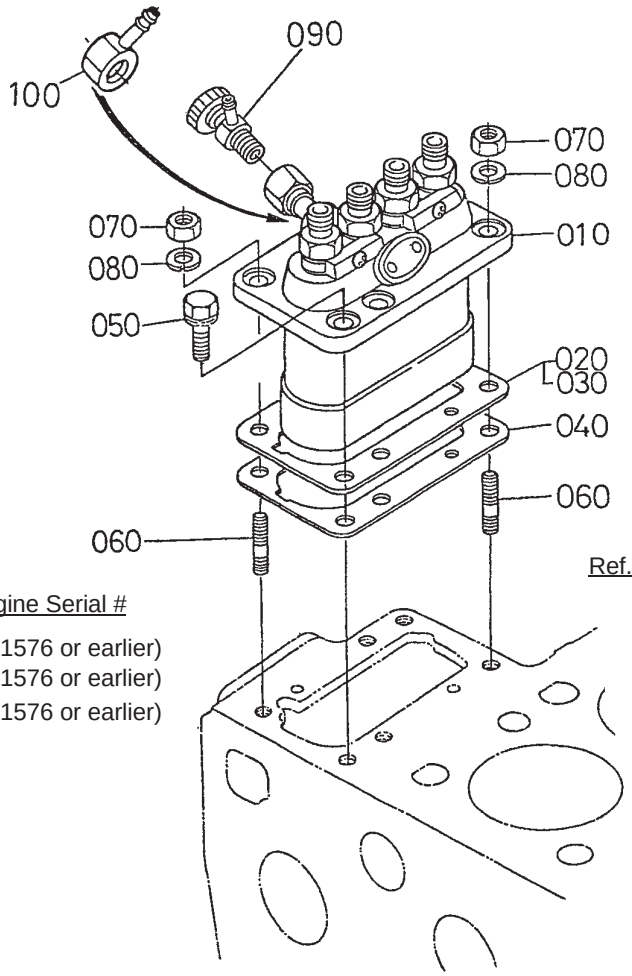


Sheet No.:54

Engine Stop Lever Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7591	1	I/D Appartus ASM
20	98–7592	1	Adjusting Bolt ASM
30	98–7593	1	Nut
40	98–7594	1	Nut–Cap
50	98–7428	2	Gasket
60	98–7596	1	Cap
70	100–9198	1	Eng Stop Lever ASM
80	98–7598	1	Cover–Pump, Injection
90	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



Ref. No.	Part No.	Engine Serial #
020	98–7607	(2G1576 or earlier)
030	98–7608	(2G1576 or earlier)
040	98–7609	(2G1576 or earlier)

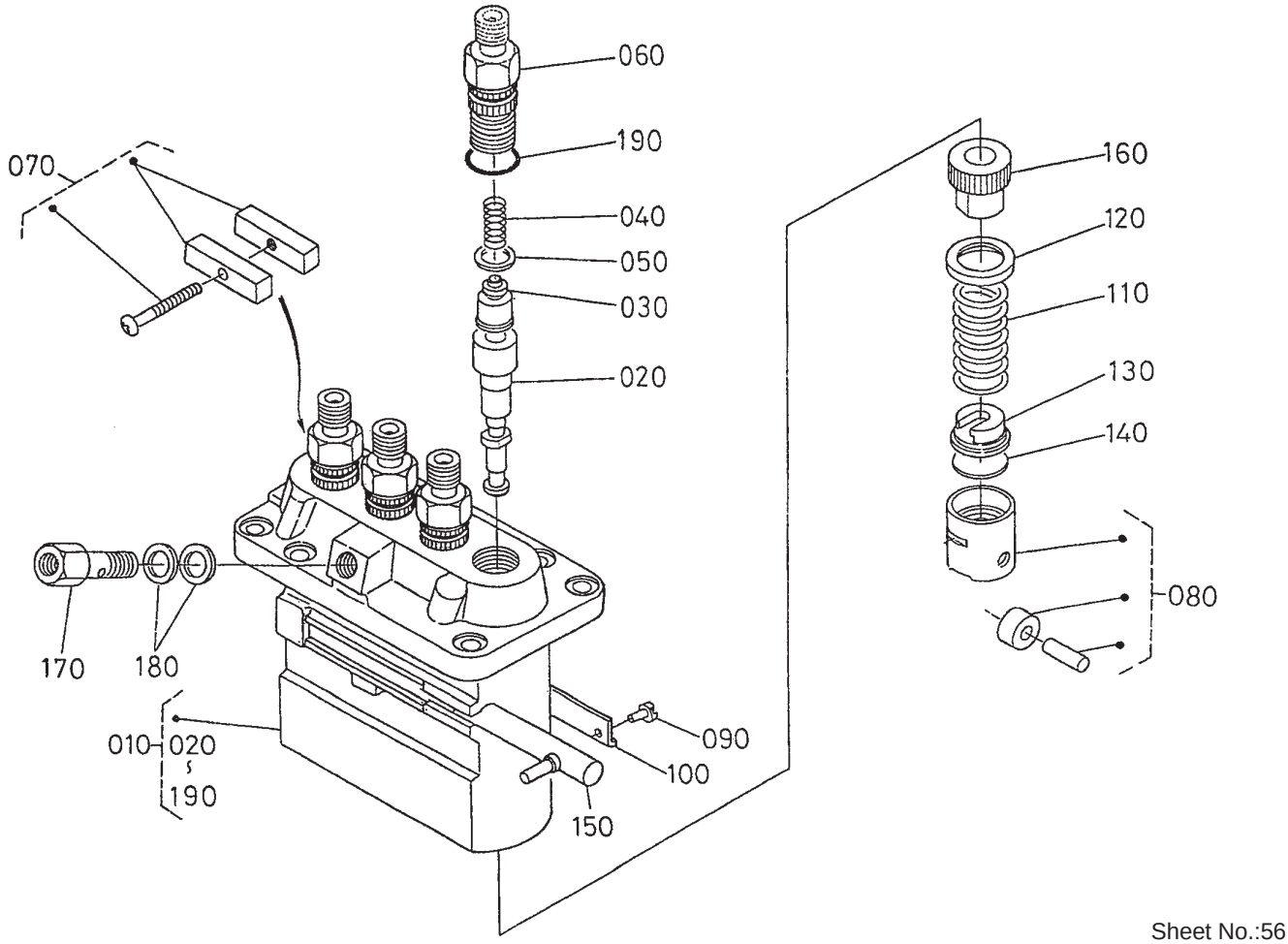
Ref. No.	Part No.	Engine Serial #
020	107–0146	(2J0001 or newer)
030	107–0147	(2J0001 or newer)
040	107–0148	(2J0001 or newer)

Sheet No.:55

Injection Pump Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9201	1	Injection Pump ASM
20	107–0146	1	Shim
20	98–7607	1	Shim
30	107–0147	1	Shim
30	98–7608	1	Shim
40	107–0148	1	Shim
40	98–7609	1	Shim–Pump, Injection
50	98–7610	4	Bolt
60	100–1558	2	Stud–Manifold, Exhaust
70	98–7534	2	Nut
80	105–2893	2	Washer–Spring
90	100–9202	1	Jet Start Cock ASM
100	98–7617	1	Joint

Ref. No.	Part No.	Qty.	Description

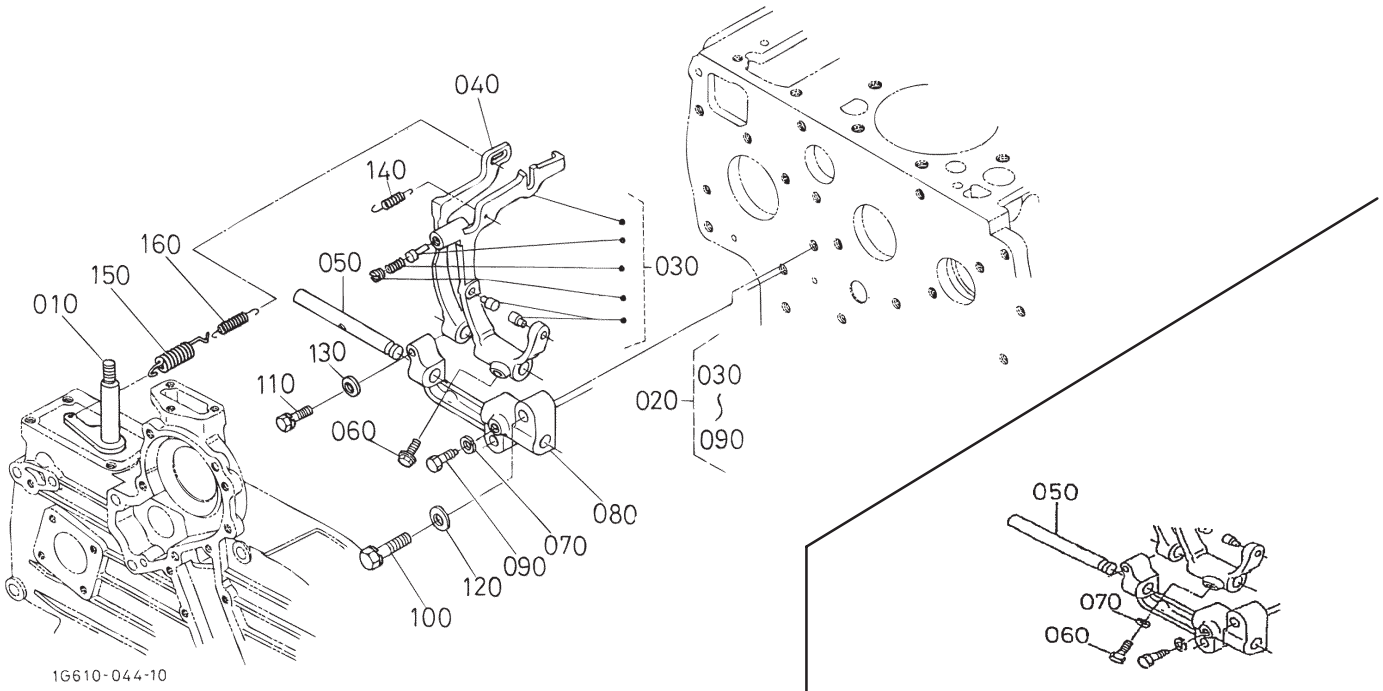


Sheet No.:56

Injection Pump Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9201	1	Injection Pump ASM
20	98–7619	4	Plunger–Pump
30	98–7620	4	Valve–Delivery
40	98–7621	4	Spring–Valve, Delivery
50	98–7622	4	Gasket–Valve, Delivery
60	98–7623	4	Holder–Valve, Delivery
70	98–7624	2	Lock Plate ASM
80	98–7625	4	Tappet ASM
90	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



Ref. No.	Part No.	Engine Serial #
050	107–0120	(2C0001 or newer)
060	107–0116	(2C0001 or newer)
070	98–7699	(2C0001 or newer) (Qty. 1)

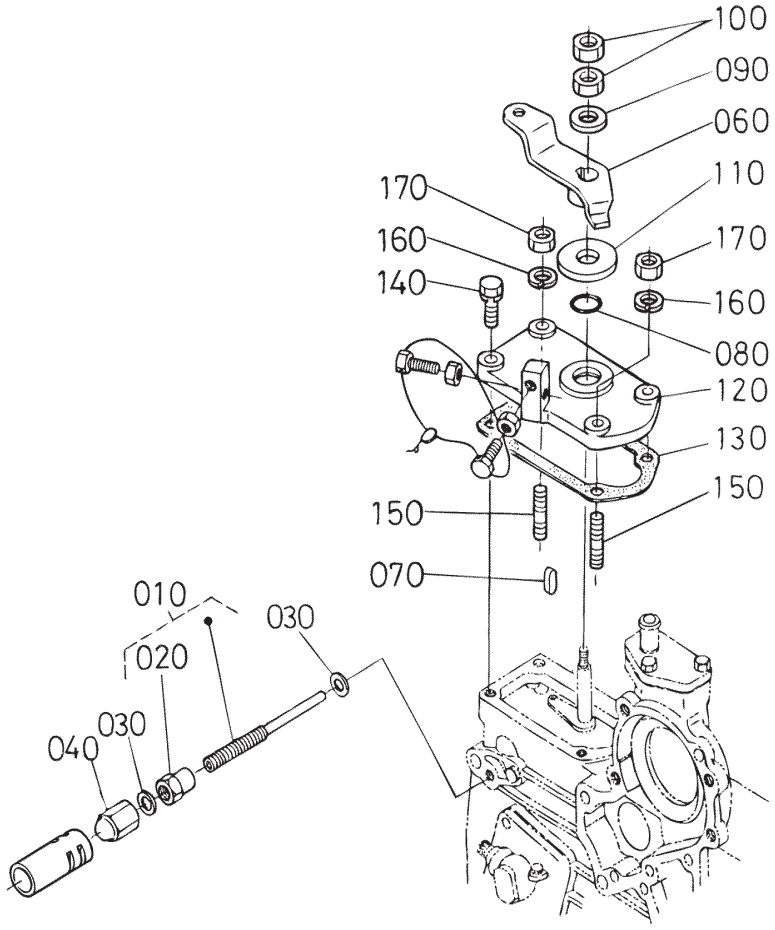
Ref. No.	Part No.	Engine Serial #
050	98–7640	(2A1266 or earlier)
060	98–7641	(2A1266 or earlier)
070	98–7699	(2A1266 or earlier) (Qty. 2)

Sheet No.:57

Governor Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7638	1	Lever–Governor
20	100–9204	1	Lever–Fork
30	100–9205	1	Lever–Fork
40	100–9206	1	Lever–Fork
50	107–0120	1	Shaft–Lever, Fork
50	98–7640	1	Shaft–Lever, Fork
60	107–0116	1	Bolt–Flange
60	98–7641	1	Bolt–Shaft, Lever
70	98–7699	1	Washer–Spring
70	98–7699	2	Washer–Spring
80	98–7643	1	Holder–Lever, Fork
90	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

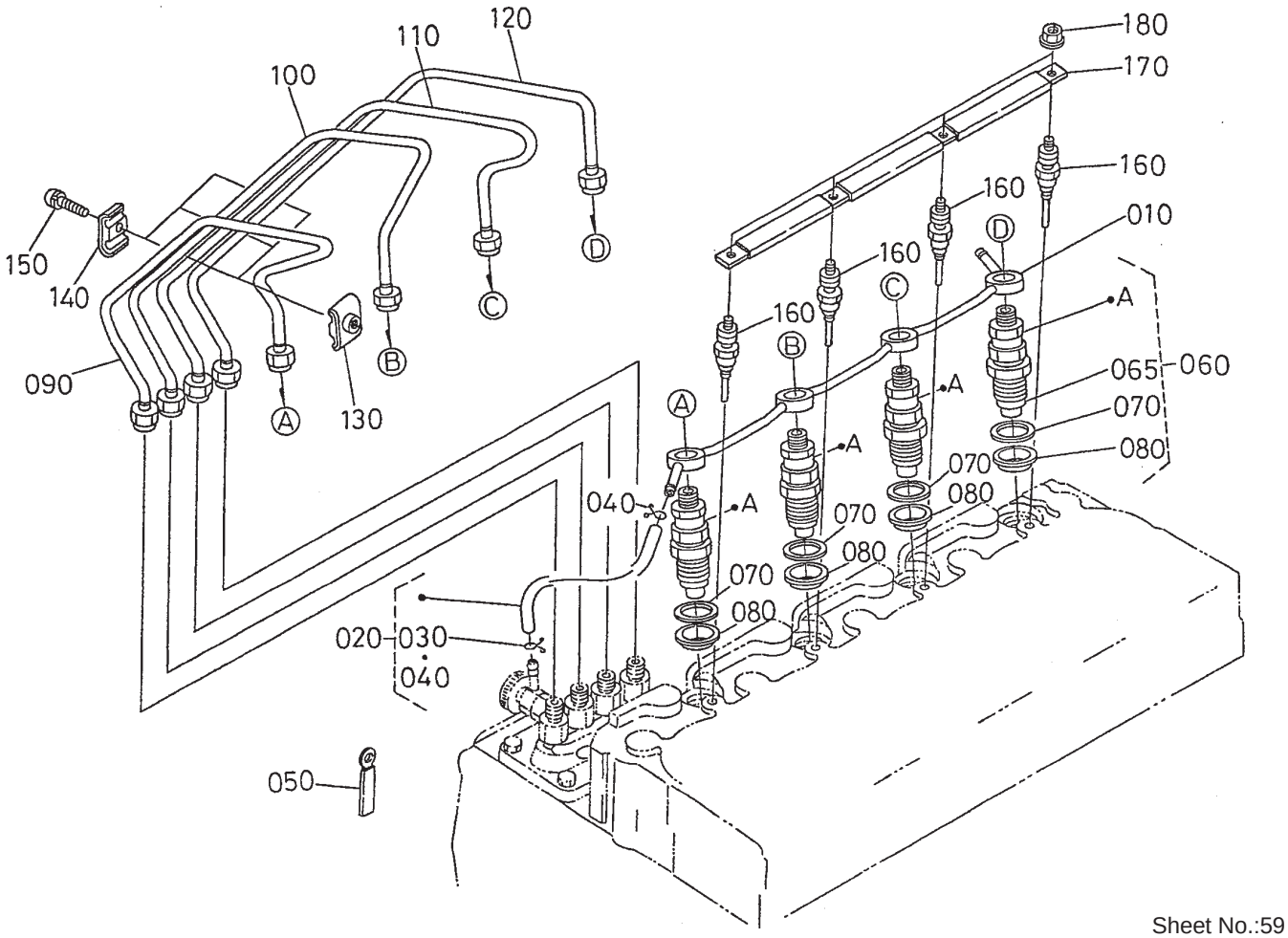


Sheet No.:58

Speed Control Plate Assembly

Ref. No.	Part No.	Qty.	Description
10	107–0132	1	Adjustable Bolt ASM
20	98–7653	1	Nut
30	98–7654	2	Gasket
40	98–7655	1	Nut–Cap
60	98–7657	1	Lever–Control, Speed
70	98–7658	1	Key–Feather
80	107–0103	1	O–Ring
90	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

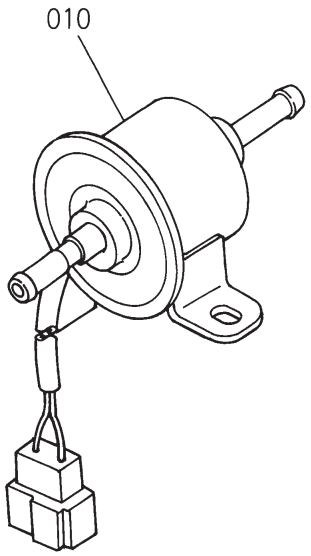


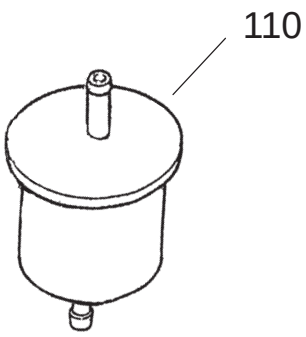
Sheet No.:59

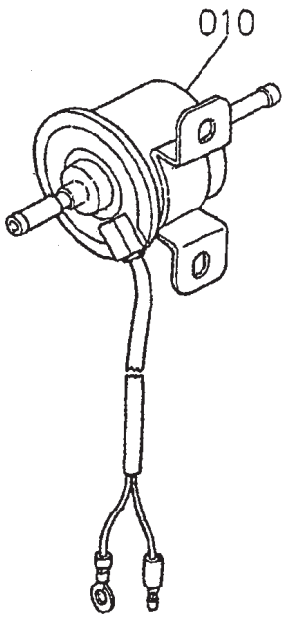
Nozzle Holder and Glow Plug Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9213	1	Overflow Pipe ASM
20	98–7670	1	Overflow Pipe ASM
30	98–7671	1	Clip–Pipe
40	98–7672	1	Clip–Pipe
50	98–7673	1	Clamp–Cord
60	100–9214	1	Nozzle Holder Kit
65	100–9215	4	Piece–Nozzle
70	98–7676	4	Gasket
80	98–7677	4	Seal
90	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







Ref. No.	Part No.	Engine Serial #
010	107–0122	(2S0001 or newer)

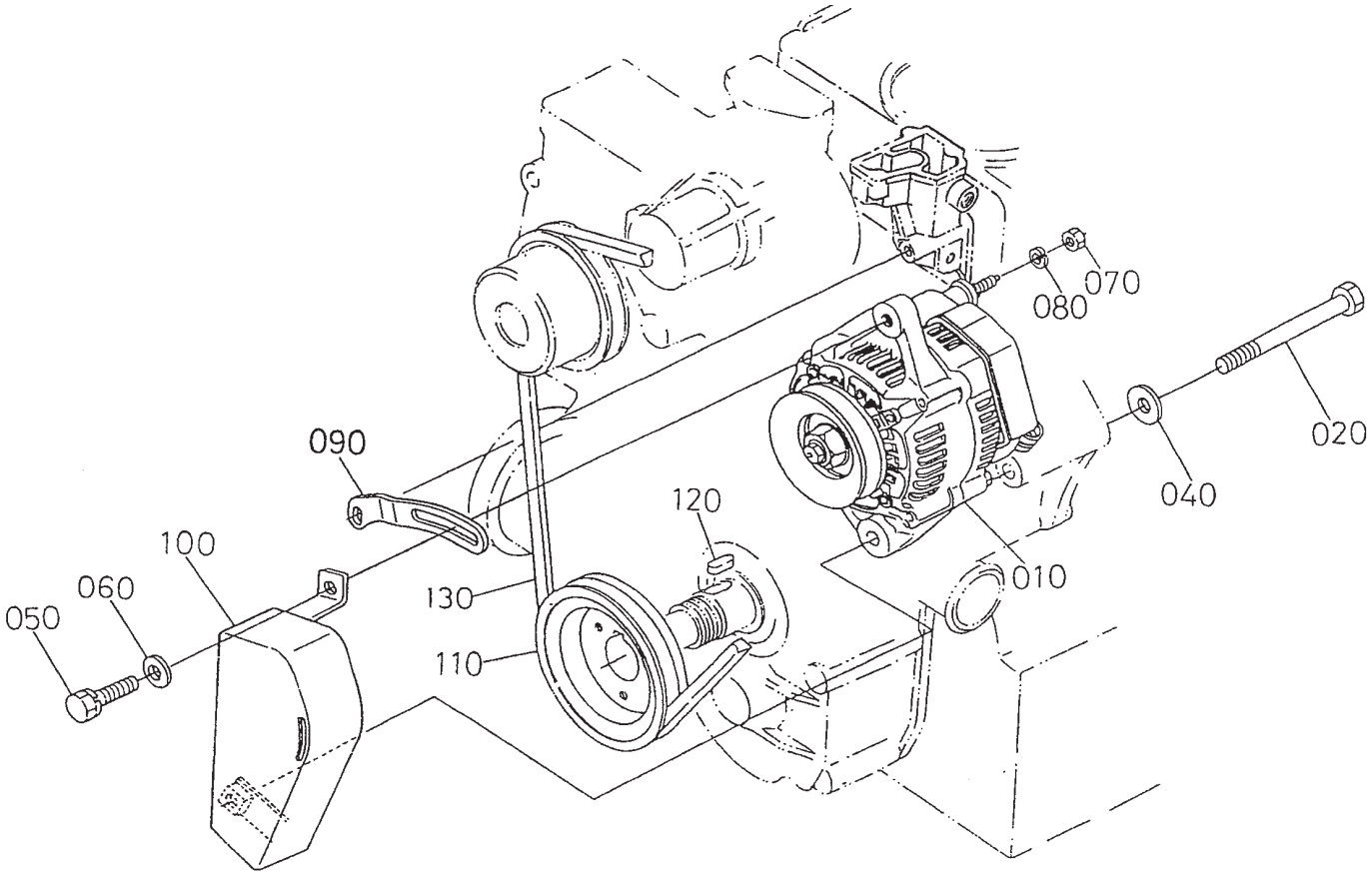
Ref. No.	Part No.	Engine Serial #
010	99–3464	(1U1056 or earlier)

Sheet No.:60

Fuel Filter and Fuel Pump

Ref. No.	Part No.	Qty.	Description
10	99–3464	1	Pump–Fuel
10	107–0122	1	Pump–Fuel
110	98–7612	1	Filter–Fuel

Ref. No.	Part No.	Qty.	Description

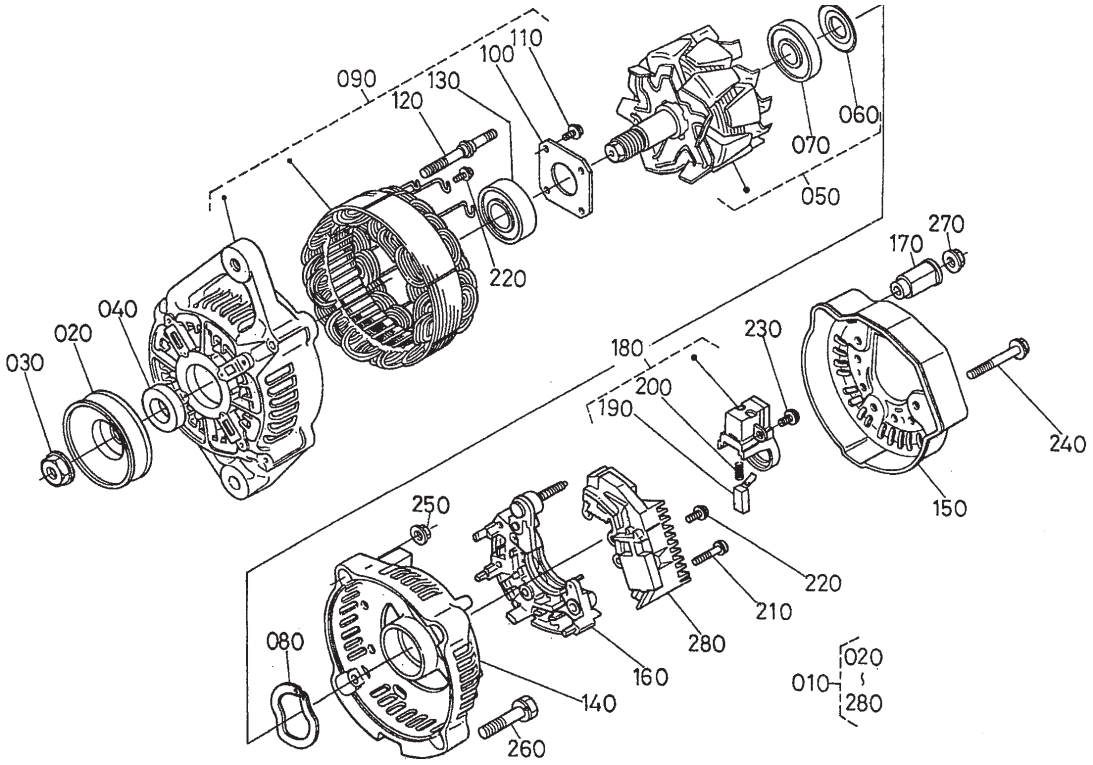


Sheet No.:61

Alternator and Pulley Assembly

Ref. No.	Part No.	Qty.	Description
10	107–0145	1	Alternator ASM
20	98–7695	1	Bolt
40	98–9366	1	Washer–Plain
50	98–7697	1	Bolt
60	100–9233	1	Washer–Plain
70	98–7572	1	Nut
80	98–7699	1	Washer–Spring
90	105–2872	1	Bracket–Alternator
100	98–7701	1	Cover–Belt
110	106–2044	1	Pulley–Drive, Fan
120	98–7451	1	Key–Feather
130	98–7705	1	V–Belt

Ref. No.	Part No.	Qty.	Description



Ref. No.	Part No.	Engine Serial #
090	98–7714	(1Q1216 or earlier)
150	98–7720	(1Q1216 or earlier)
180	98–7723	(1Q1216 or earlier)

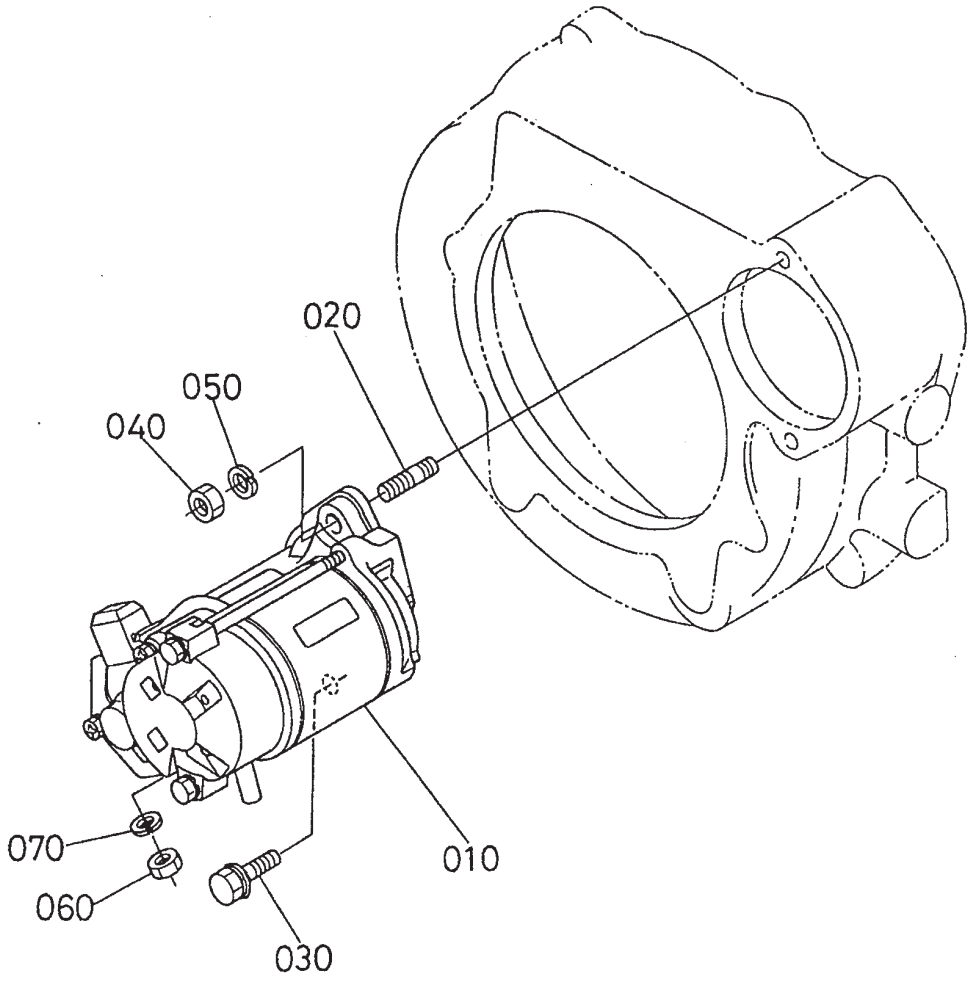
Ref. No.	Part No.	Engine Serial #
090	107–0139	(1S0001 or newer)
150	107–0140	(1S0001 or newer)
180	107–0141	(1S0001 or newer)

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Alternator Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
10	107–0145	1	Alternator ASM
20	98–7707	1	Pulley–Alternator
30	98–7708	1	Nut
40	98–7709	1	Collar
50	107–0136	1	Rotor
60	98–7711	1	Cover–Bearing
70	107–0138	1	Bearing–Ball
80	98–7713	1	Washer–Thrust
90	107–0139	1	Drive End Frame ASM
90	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	107–0137	1	Bearing–Ball
140	98–7719	1	Frame–End
150	98–7720	1	Cover–End
150	107–0140	1	Cover–End
160	98–7721	1	Rectifier ASM
170	98–7722	1	Bushing–Insulation
180	98–7723	1	Holder–Brush
180	107–0141	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

Ref. No.	Part No.	Qty.	Description
240	98–7729	3	Bolt
250	98–7730	2	Nut
260	98–7731	2	Bolt
270	98–7732	1	Nut
280	98–7733	1	Regulator ASM

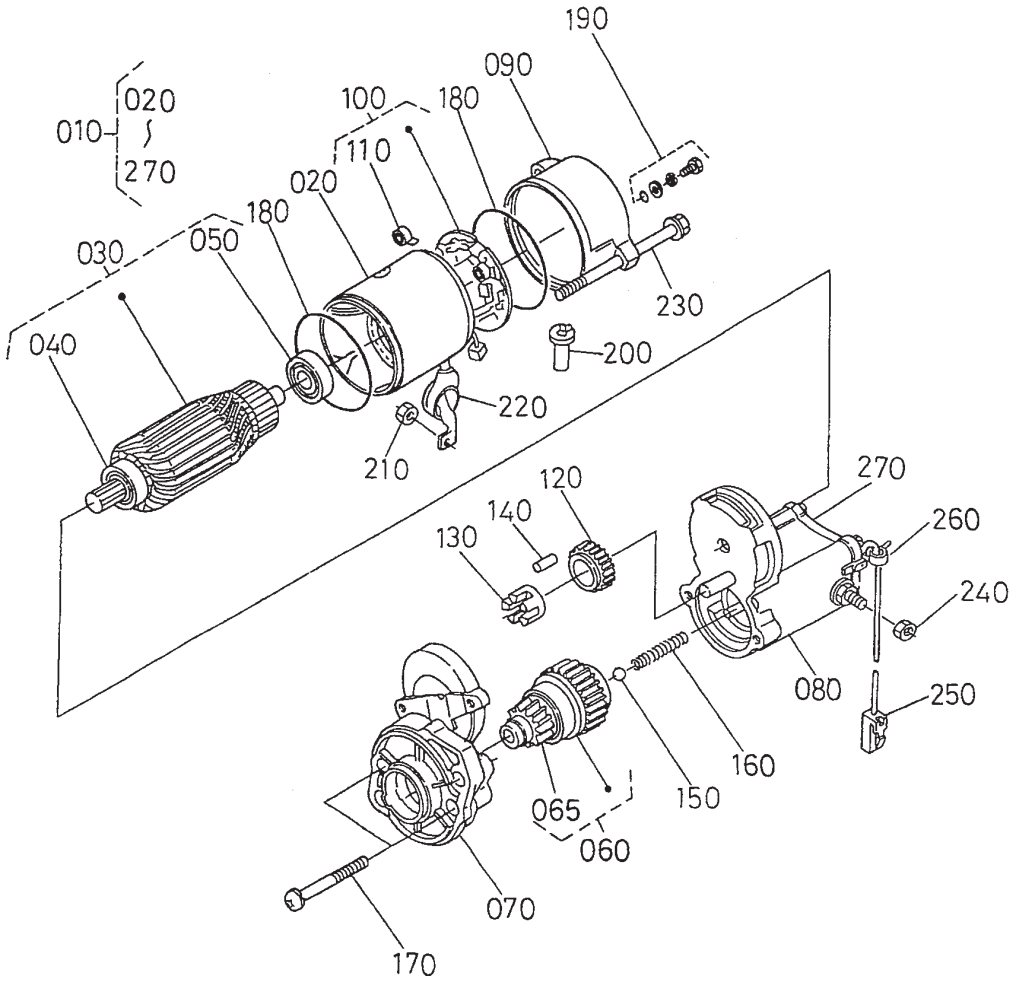


Sheet No.:63

Starter Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9237	1	Starter ASM
20	98–7735	1	Stud
30	98–7736	1	Bolt
40	98–7737	1	Nut
50	98–7738	1	Washer–Spring
60	98–7739	1	Nut
70	105–2893	1	Washer–Spring

Ref. No.	Part No.	Qty.	Description

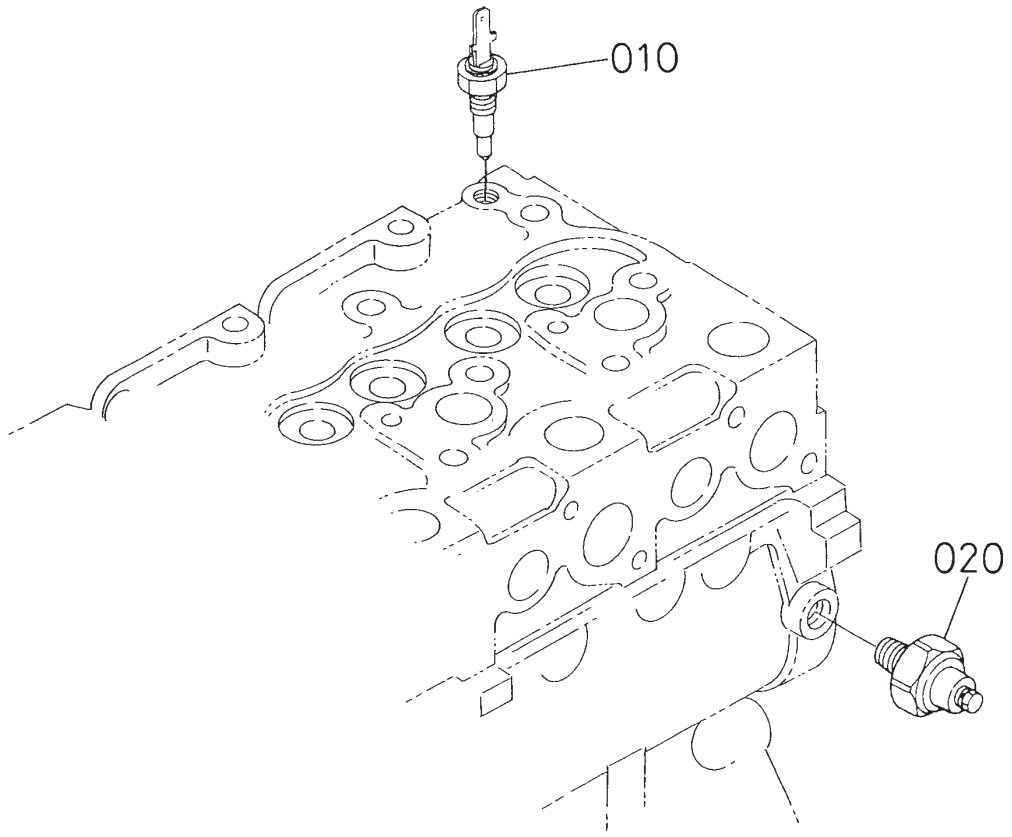


Sheet No.:64

Starter Component Parts Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9237	1	Starter ASM
20	104–8608	1	Yoke ASM
30	98–7742	1	Armature ASM
40	98–7744	1	Bearing
50	98–7743	1	Bearing
60	98–7745	1	Clutch–Running, Over
65	105–2887	1	Pinion–Bevel
70	98–7746	1	Frame–End, Drive
80	100–9239	1	Magentic Switch ASM
90	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
250	98–9711	1	Cord–Solenoid, Stop

Ref. No.	Part No.	Qty.	Description
260	98–9712	1	Band–Cover
270	105–2886	1	Cover ASM

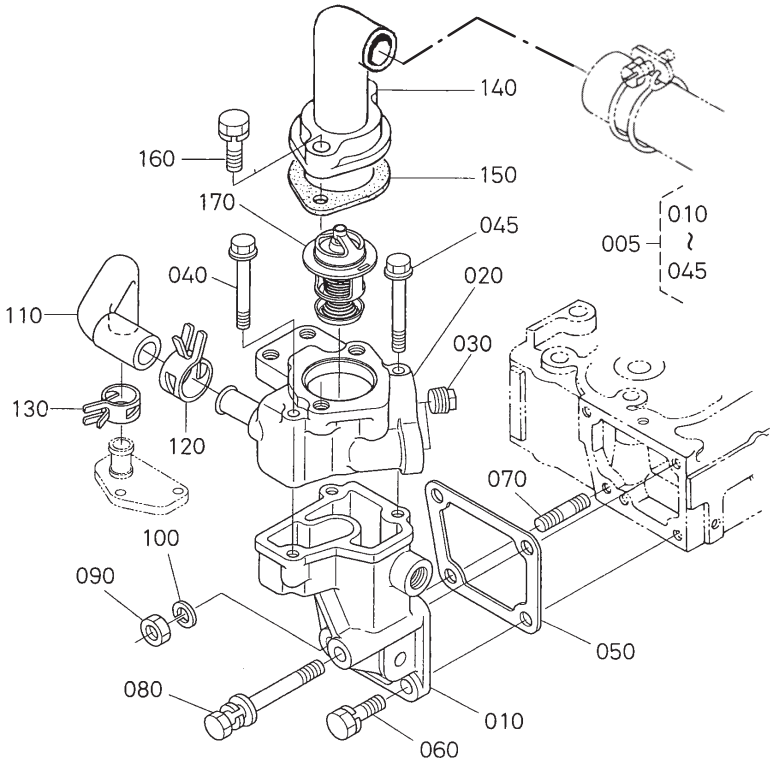


Sheet No.:65

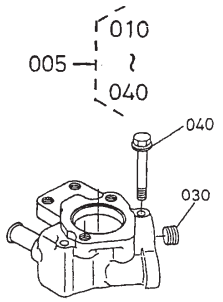
Oil Switch / Thermometer and Plug Assembly

Ref. No.	Part No.	Qty.	Description
10	99–3582	1	Thermoswitch
20	98–7764	1	Switch–Oil

Ref. No.	Part No.	Qty.	Description



Ref. No.	Part No.	Engine Serial #
020	107–0144	(1N0001 or newer)
040	105–2875	(1E0001 or newer) (Qty. 2)
045	107–0117	(1E0001 or newer)
080	107–0115	(1U0001 or newer)



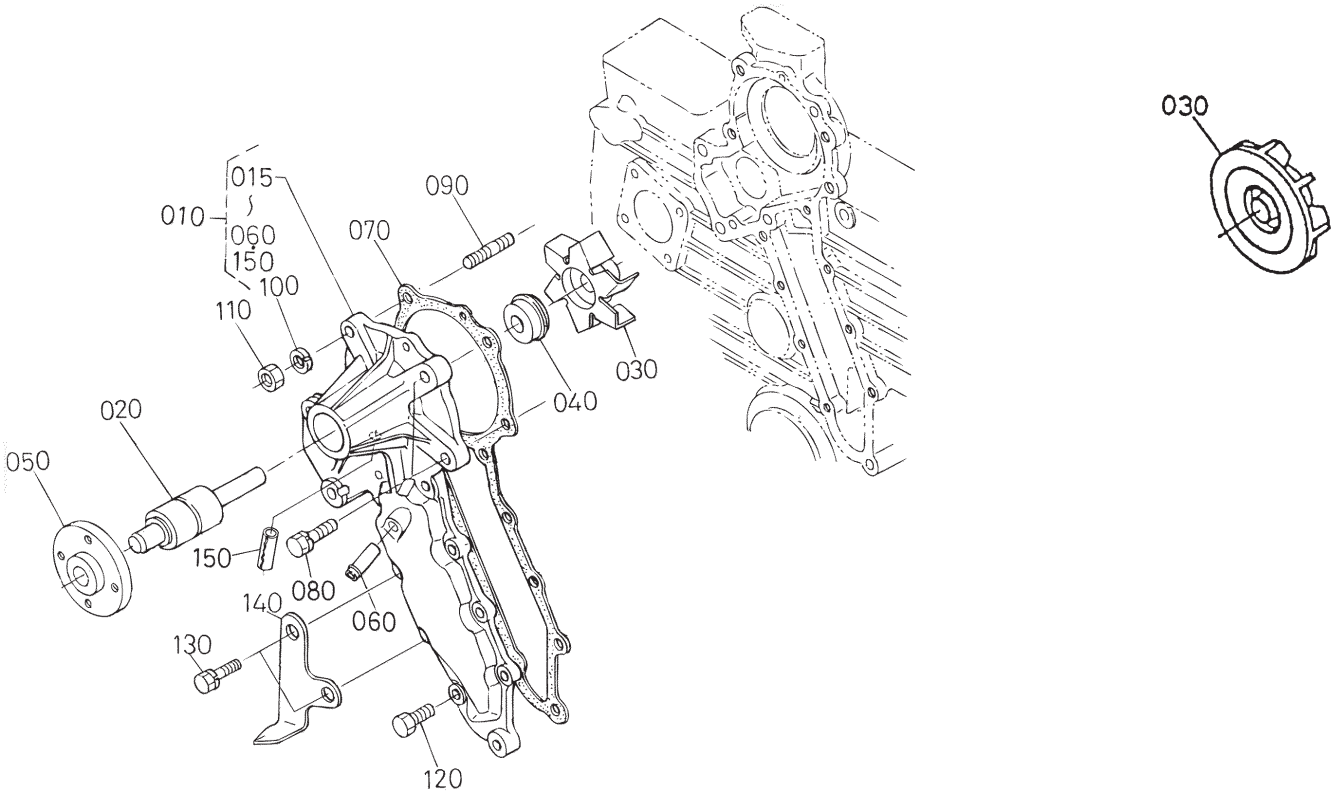
Ref. No.	Part No.	Engine Serial #
040	105–2875	(1C1478 or earlier) (Qty. 3)

Sheet No.:66

Water Flange and Thermostat Assembly

Ref. No.	Part No.	Qty.	Description
5	105–4578	1	Water Flange ASM
10	107–0143	1	Flange–Water
20	107–0144	1	Flange–Water
30	105–2874	2	Plug
40	105–2875	2	Bolt–Flange
40	105–2875	3	Bolt–Flange
45	107–0117	1	Bolt–Flange
50	105–2876	1	Gasket–Flange, Water
60	98–7610	2	Bolt
70	100–1558	1	Stud–Manifold, Exhaust
80	107–0115	1	Bolt
90	98–7534	1	Nut
100	105–2893	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



Ref. No.	Part No.	Engine Serial #
010	107–0129	(2S0001 or newer)
030	107–0130	(1Y0001 or newer)
150	107–0131	(2S0001 or newer)

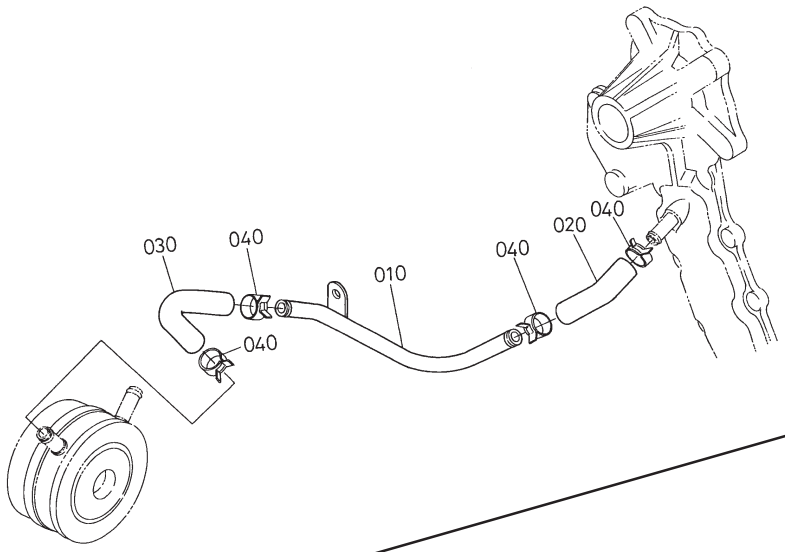
Ref. No.	Part No.	Engine Serial #
010	100–9245	(1W1377 or earlier)
030	98–7781	(1W1377 or earlier)

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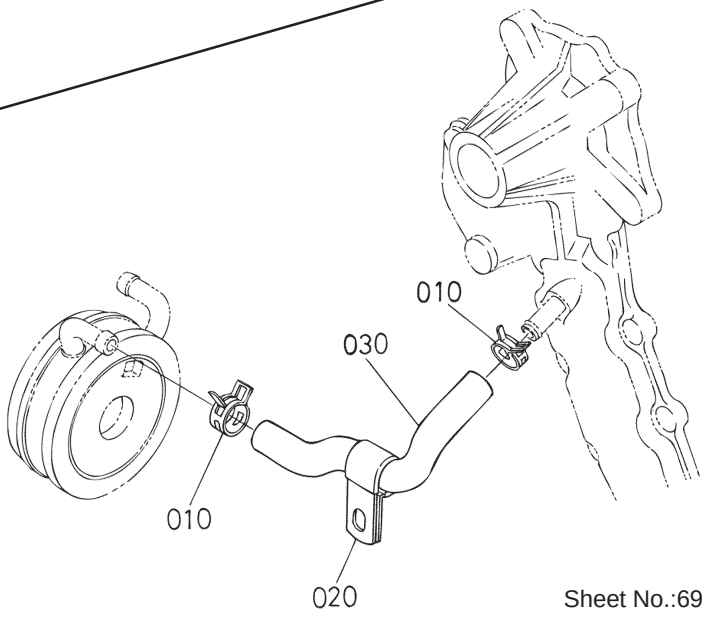
Water Pump Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9245	1	Water Pump ASM
10	107–0129	1	Water Pump ASM
15	105–2885	1	Body–Pump, Water
20	98–7780	1	Bearing–Ball
30	107–0130	1	Impeller–Pump, Water
30	98–7781	1	Impeller–Pump, Water
40	105–2882	1	Mechanical Seal ASM
50	98–7783	1	Flange–Pump, Water
60	98–9580	1	Pipe–Return, Water
70	98–7784	1	Gasket–Pump, Water
80	98–7439	2	Bolt
90	98–7786	2	Stud
100	105–2893	2	Washer–Spring
110	98–7534	2	Nut
120	98–7605	6	Bolt
130	98–7568	2	Bolt
140	100–9246	1	Indicator–Timing
150	107–0131	1	Pin–Spring

Ref. No.	Part No.	Qty.	Description



Ref. No.	Part No.	Engine Serial #
010	100–9278	(2Q1204 or earlier)
020	100–9279	(2Q1204 or earlier)
030	100–9280	(2Q1204 or earlier)
040	98–9579	(2Q1204 or earlier) (Qty. 4)



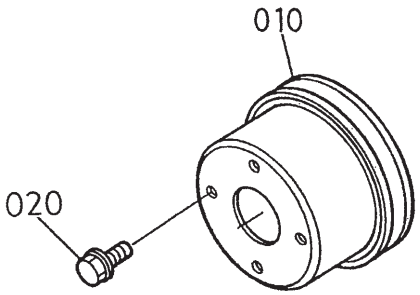
Ref. No.	Part No.	Engine Serial #
010	98–9579	(2S0001 or newer) (Qty. 2)
020	107–0123	(2S0001 or newer)
030	107–0124	(2S0001 or newer)

Sheet No.:69

Water Pipe Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9278	1	Pipe–Water
10	98–9579	2	Band–Pipe
20	100–9279	1	Pipe–Water
20	107–0123	1	Clamp–Cord
30	100–9280	1	Pipe–Cooler, Oil
30	107–0124	1	Pipe–Cooler, Oil
40	98–9579	4	Band–Pipe

Ref. No.	Part No.	Qty.	Description

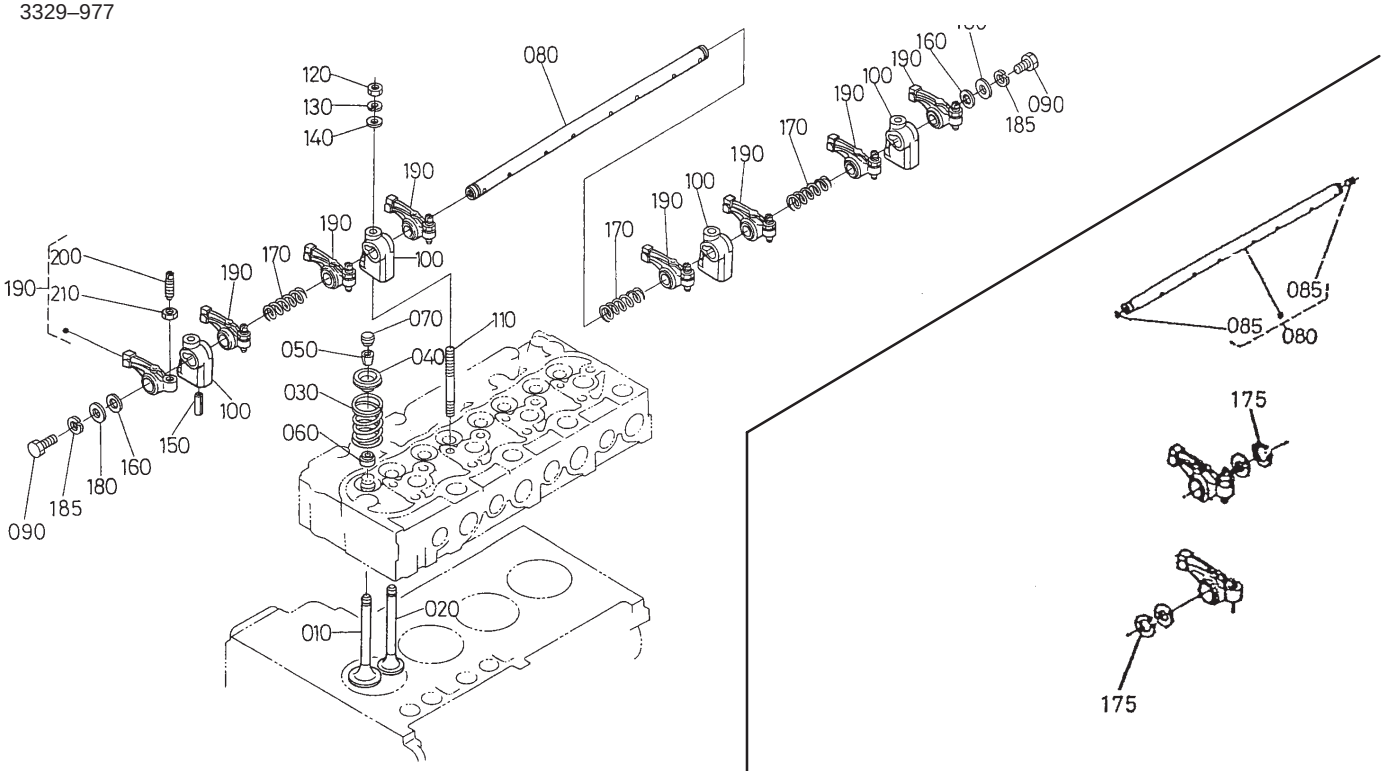


Sheet No.:70

Fan Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7702	1	Pulley–Fan
20	99–8363	4	Bolt–Flange

Ref. No.	Part No.	Qty.	Description



Ref. No.	Part No.	Engine Serial #
080	107–0134	(2A0001 or newer)
090	98–7884	(2A0001 or newer)
180	98–7698	(2A0001 or newer)
185	105–2893	(2A0001 or newer) (Qty. 2)

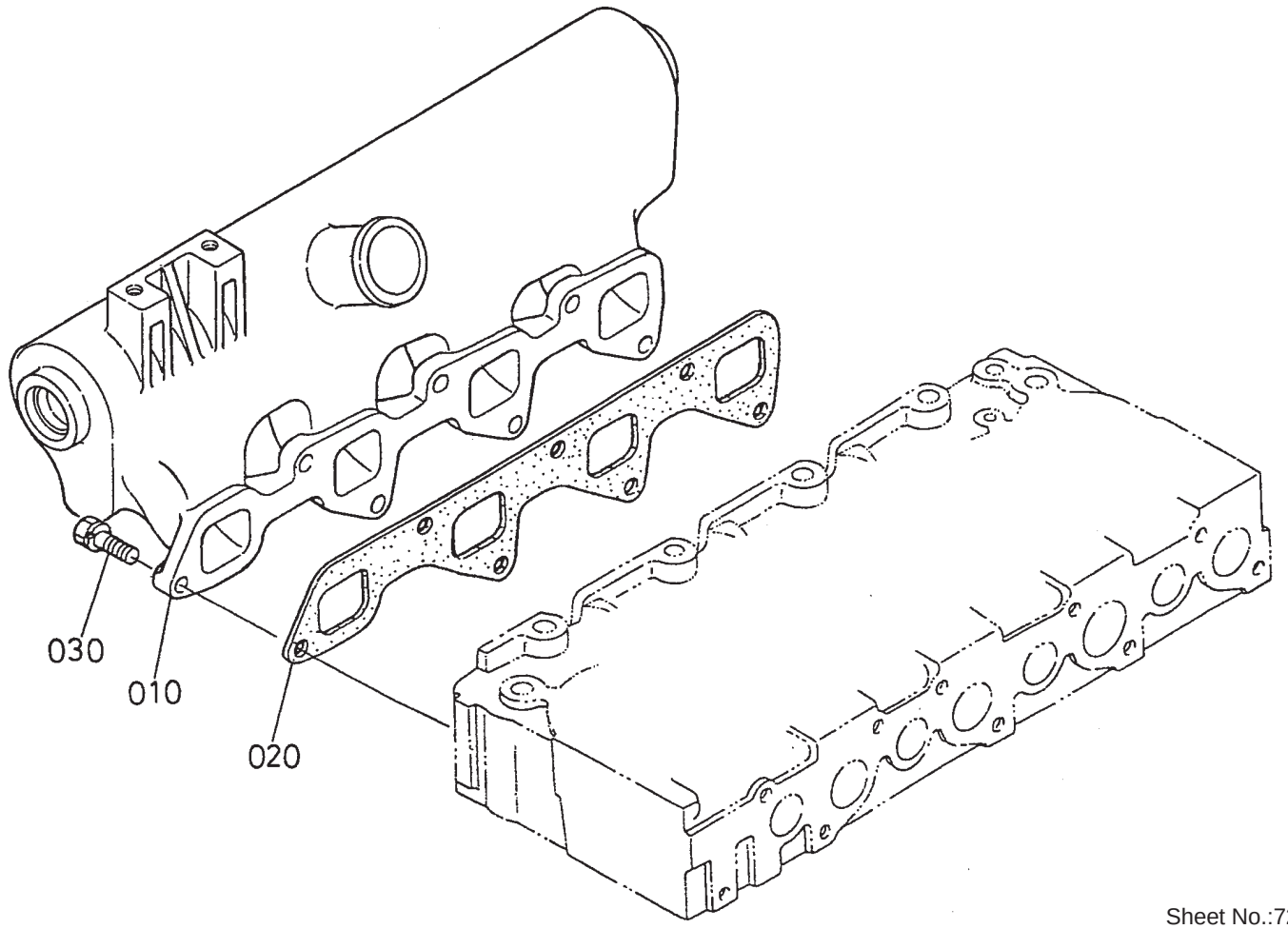
Ref. No.	Part No.	Engine Serial #
080	98–7798	(1Y1240 or earlier)
085	107–0135	(1Y1240 or earlier)
175	98–7808	(1Y1240 or earlier)

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Valve and Rocker Arm Assembly

Ref. No.	Part No.	Qty.	Description
10	98–7791	4	Valve–Inlet
20	100–9281	4	Valve–Exhaust
30	98–7793	8	Spring–Valve
40	98–7794	8	Retainer–Spring, Valve
50	98–7795	8	Collet–Spring, Valve
60	98–7796	8	Seal–Stem, Valve
70	98–7797	8	Cap–Valve
80	107–0134	1	Shaft–Arm, Rocker
80	98–7798	1	Rocker Arm Shaft ASM
85	107–0135	2	Screw–Set
90	98–7884	2	Bolt
100	98–7800	4	Bracket–Arm, Rocker
110	98–7801	4	Stud
120	98–7534	4	Nut
130	105–2893	4	Washer–Spring
140	98–7536	4	Washer–Plain
150	98–7805	1	Pin–Spring
160	98–7806	2	Washer
170	98–7807	3	Spring–Arm, Rocker
175	98–7808	2	Clip–Cir., External
180	98–7698	2	Washer–Plain
185	105–2893	2	Washer–Spring
190	98–7809	8	Rocker Arm ASM
200	98–7810	8	Screw–Adjusting
210	98–7811	8	Nut

Ref. No.	Part No.	Qty.	Description

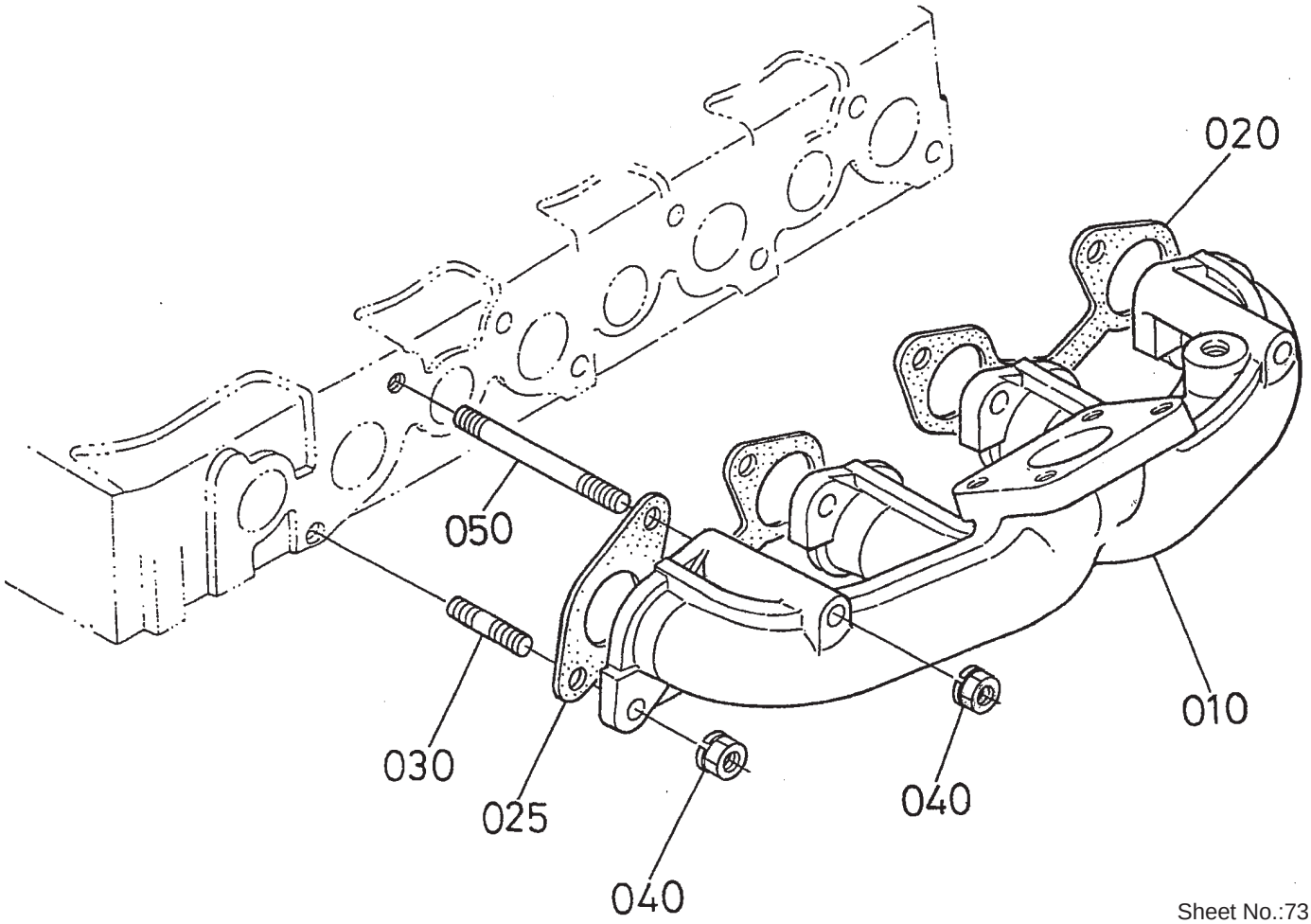


Sheet No.:72

Inlet Manifold Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9283	1	Inlet–Manifold
20	100–9284	1	Gasket–In Manifold
30	98–7610	7	Bolt

Ref. No.	Part No.	Qty.	Description

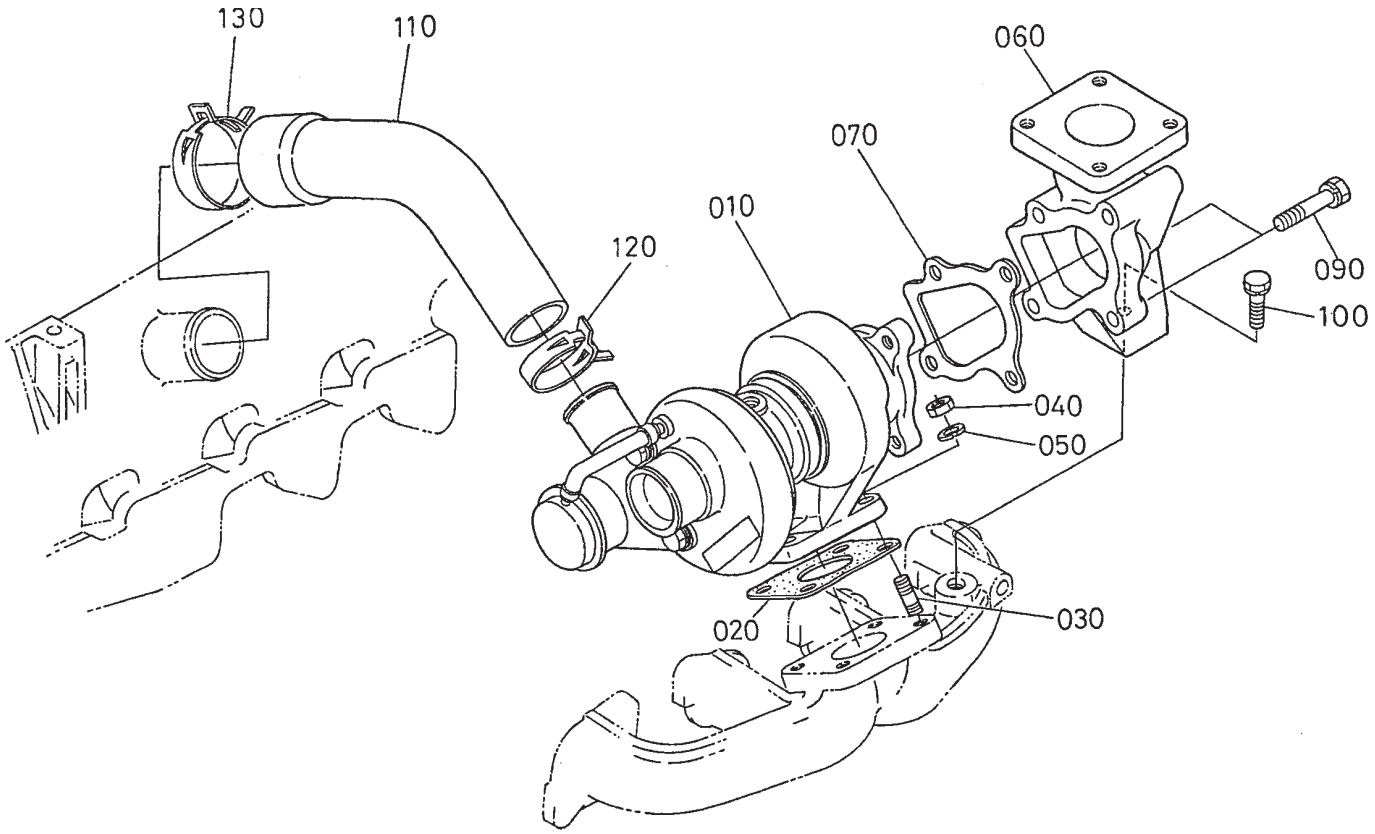


Sheet No.:73

Exhaust Manifold Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9285	1	Manifold–Exhaust
20	98–7802	1	Gasket
25	98–7803	1	Gasket
30	98–7533	6	Stud
40	100–9288	8	Nut
50	100–9289	2	Stud

Ref. No.	Part No.	Qty.	Description

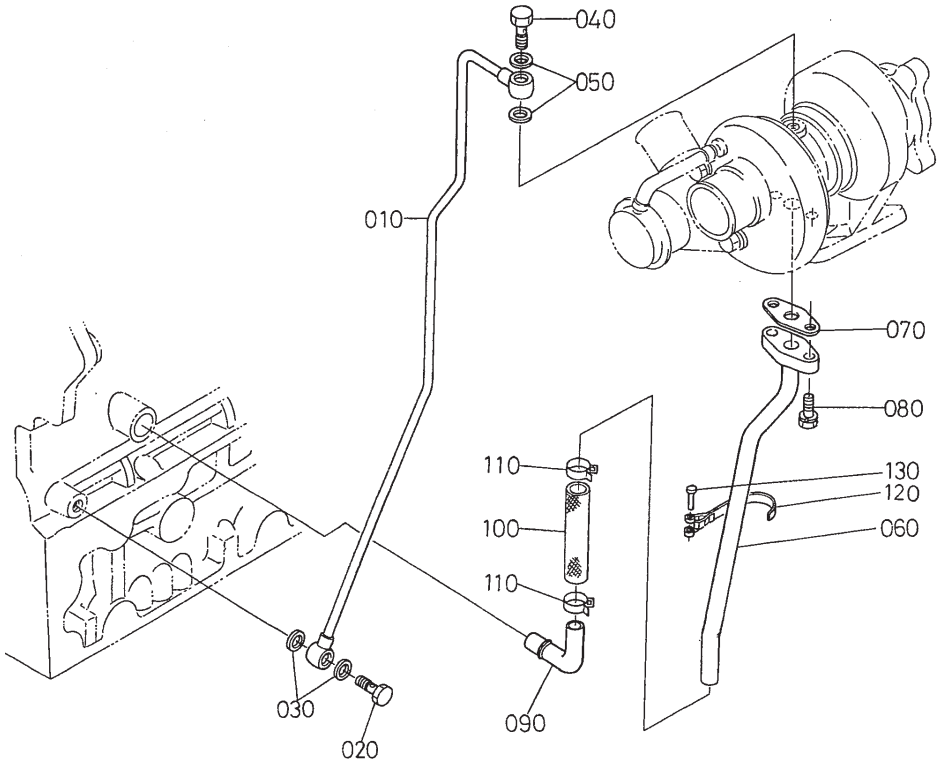


Sheet No.:74

Turbo Charger Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9313	1	Turbo Changer ASM
20	100–9314	1	Gasket
30	99–8341	4	Stud
40	98–7534	4	Nut
50	105–2893	4	Washer–Spring
60	100–9315	1	Flange–Muffler
70	100–9316	1	Gasket
90	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



Ref. No.	Part No.	Engine Serial #
010	100–9320	(1U1056 or earlier)
060	100–9322	(1U1056 or earlier)
180	98–7568	(1G1576 or earlier)

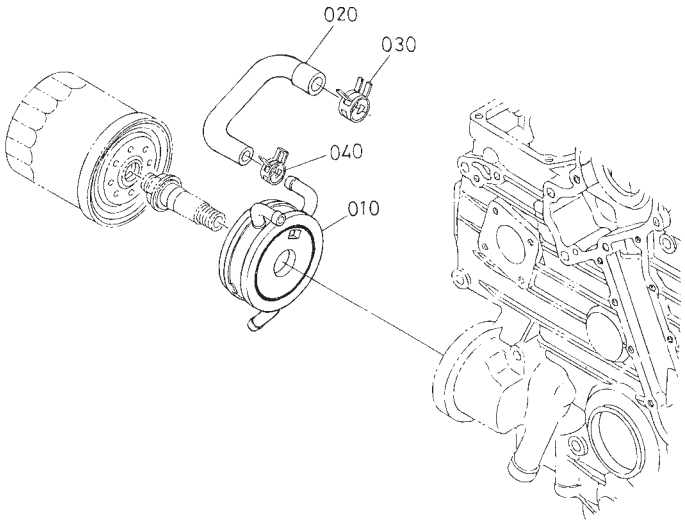
Ref. No.	Part No.	Engine Serial #
010	107–0127	(1W0001 or newer)
060	107–0128	(1W0001 or newer)
180	98–7605	(2J0001 or newer)

Sheet No.:75

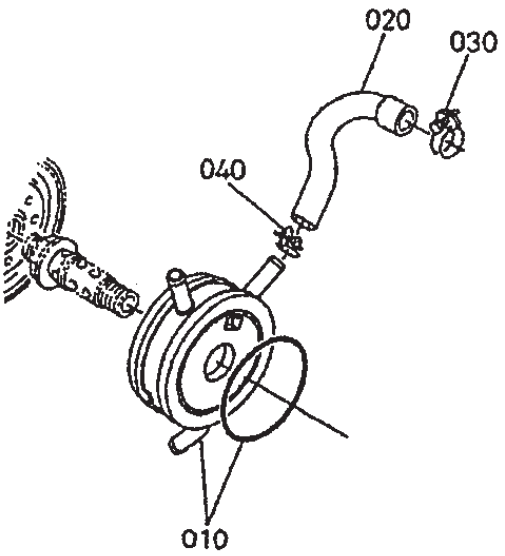
Oil Pipe (Turbo Charger) Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9320	1	Pipe–Oil
10	107–0127	1	Pipe–Oil, Complete
20	100–9321	1	Bolt–Joint, Eye
30	98–7428	2	Gasket
40	98–9418	1	Bolt–Joint, Eye
50	99–8346	2	Gasket
60	107–0128	1	Pipe–Oil, Complete
60	100–9322	1	Pipe–Oil
70	98–9435	1	Gasket–Oil Return, Turbo
80	98–7605	2	Bolt
80	98–7568	2	Bolt
90	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



Ref. No.	Part No.	Engine Serial #
010	107–0125	(2S0001 or newer)
020	107–0126	(2S0001 or newer)
030	105–2879	(2S0001 or newer)
040	98–9579	(2S0001 or newer)



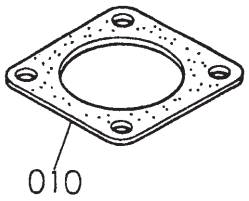
Ref. No.	Part No.	Engine Serial #
010	100–9325	(2Q1204 or earlier)
020	100–9326	(2Q1204 or earlier)
030	98–7774	(2Q1204 or earlier)
040	100–9327	(2Q1204 or earlier)

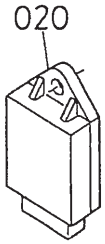
Sheet No.:76

Oil Cooler Assembly

Ref. No.	Part No.	Qty.	Description
10	100–9325	1	Oil Cooler ASM
10	107–0125	1	Oil Cooler ASM
20	100–9326	1	Hose–Cooler, Oil
20	107–0126	1	Hose–Cooler, Oil
30	98–7774	1	Band–Pipe
30	105–2879	1	Clamp–Hose
40	100–9327	1	Band–Pipe
40	98–9579	1	Band–Pipe

Ref. No.	Part No.	Qty.	Description



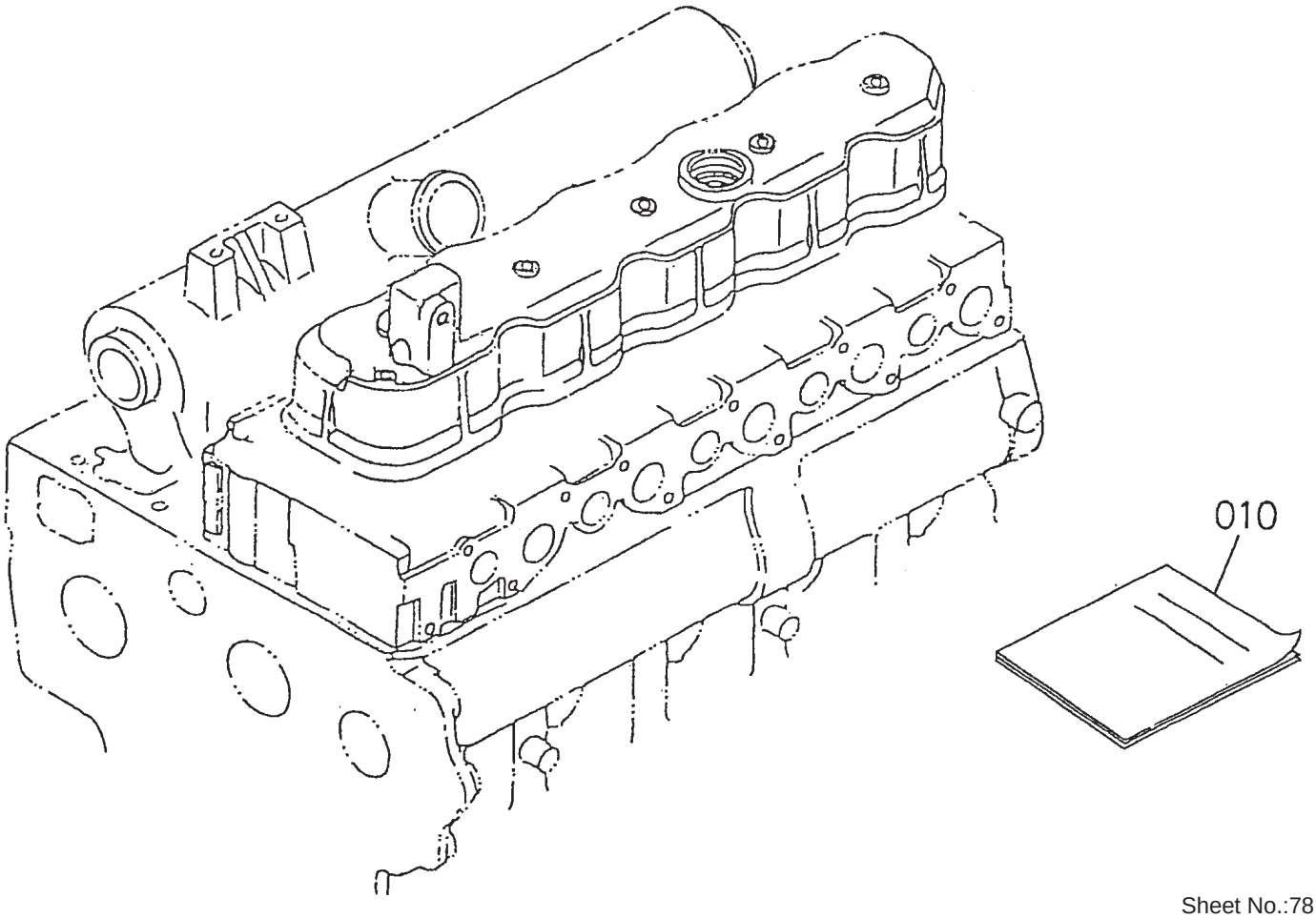


Sheet No.:77

Muffler Gasket and Glow Controller

Ref. No.	Part No.	Qty.	Description
10	100–9333	1	Gasket–Muffler
20	98–7611	1	Controller–Glow

Ref. No.	Part No.	Qty.	Description

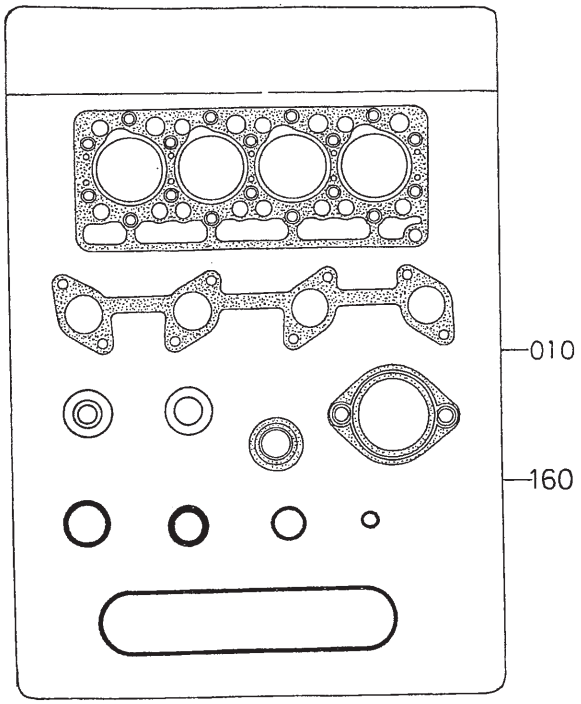


Sheet No.:78

Engine Operator’s Manual

Ref. No.	Part No.	Qty.	Description
10	100–9335	1	Manual–Instruction

Ref. No.	Part No.	Qty.	Description



Sheet No.:79

Gasket Kit

Ref. No.	Part No.	Qty.	Description
10	100–9337	1	Upper Gasket Kit
160	98–7888	1	Lower Gasket Kit

Ref. No.	Part No.	Qty.	Description

Maintenance Record

Date								

Maintenance Record

Date								

Maintenance Record

Date								


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