



# Groundsmaster<sup>®</sup> 4100-D

## Traction Unit

Model No. 30411—230000201 and Up

## Parts Catalog

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### 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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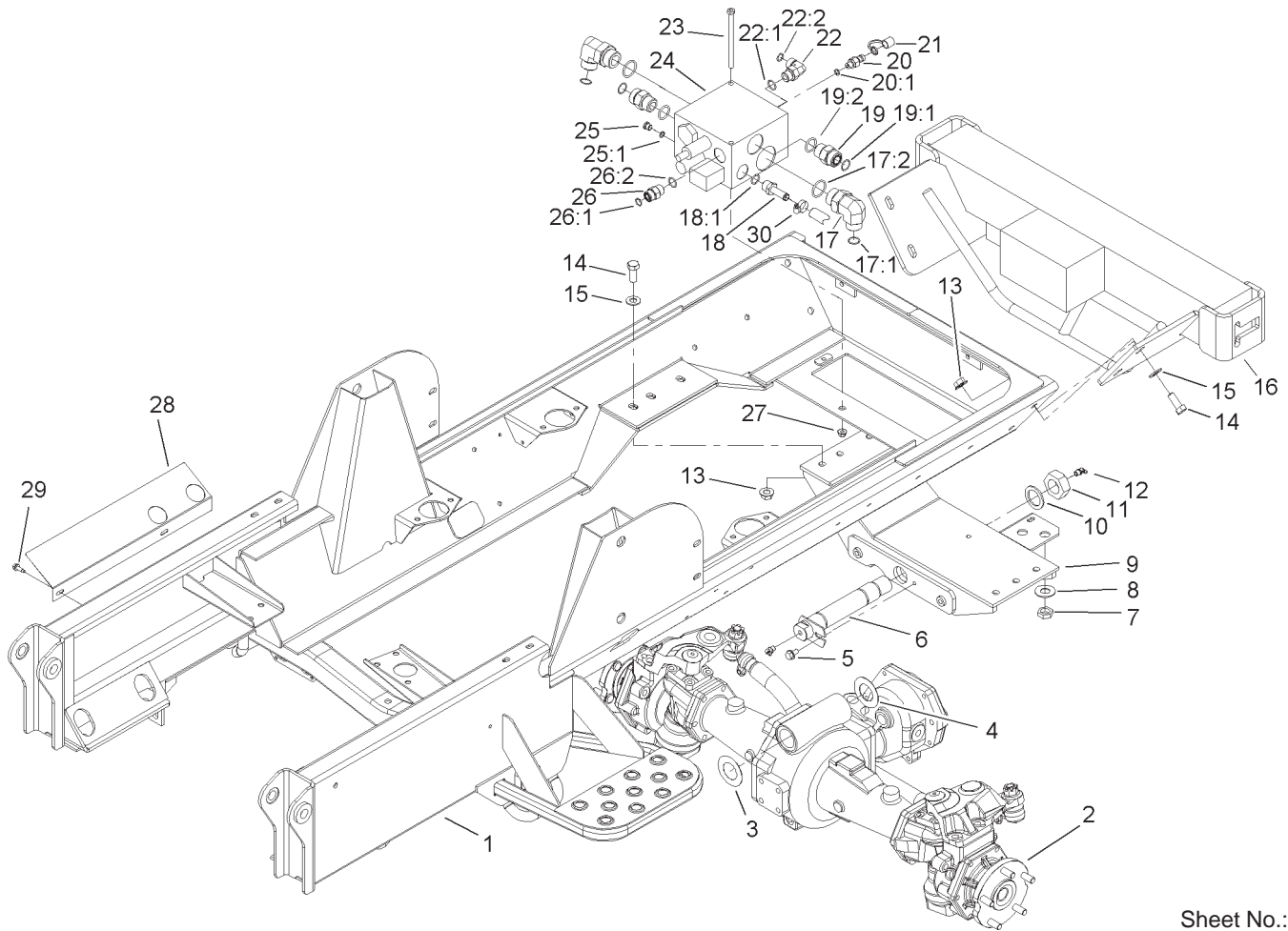
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## Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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



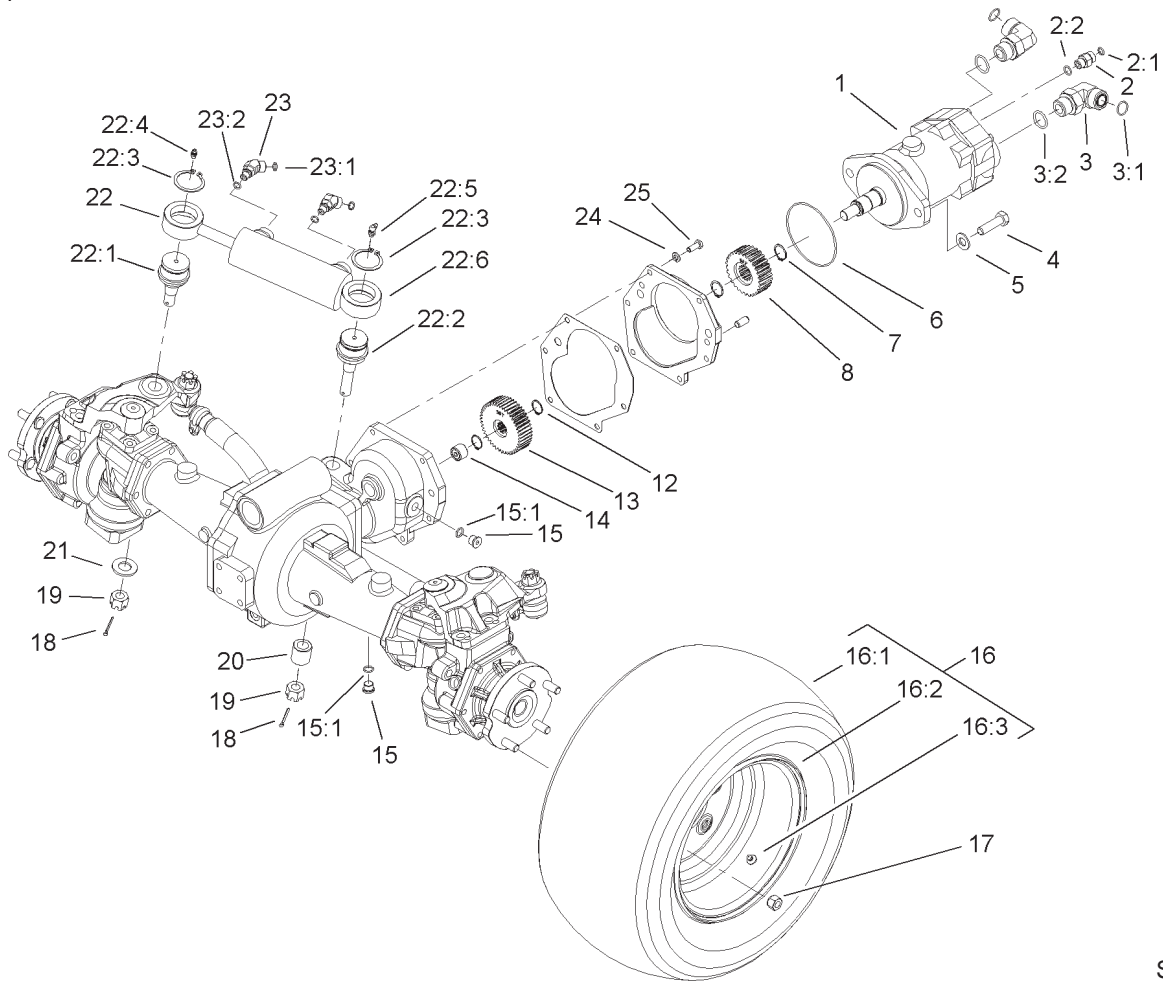
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## Frame and Bumper Assembly

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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## Rear Axle and Tire Assembly

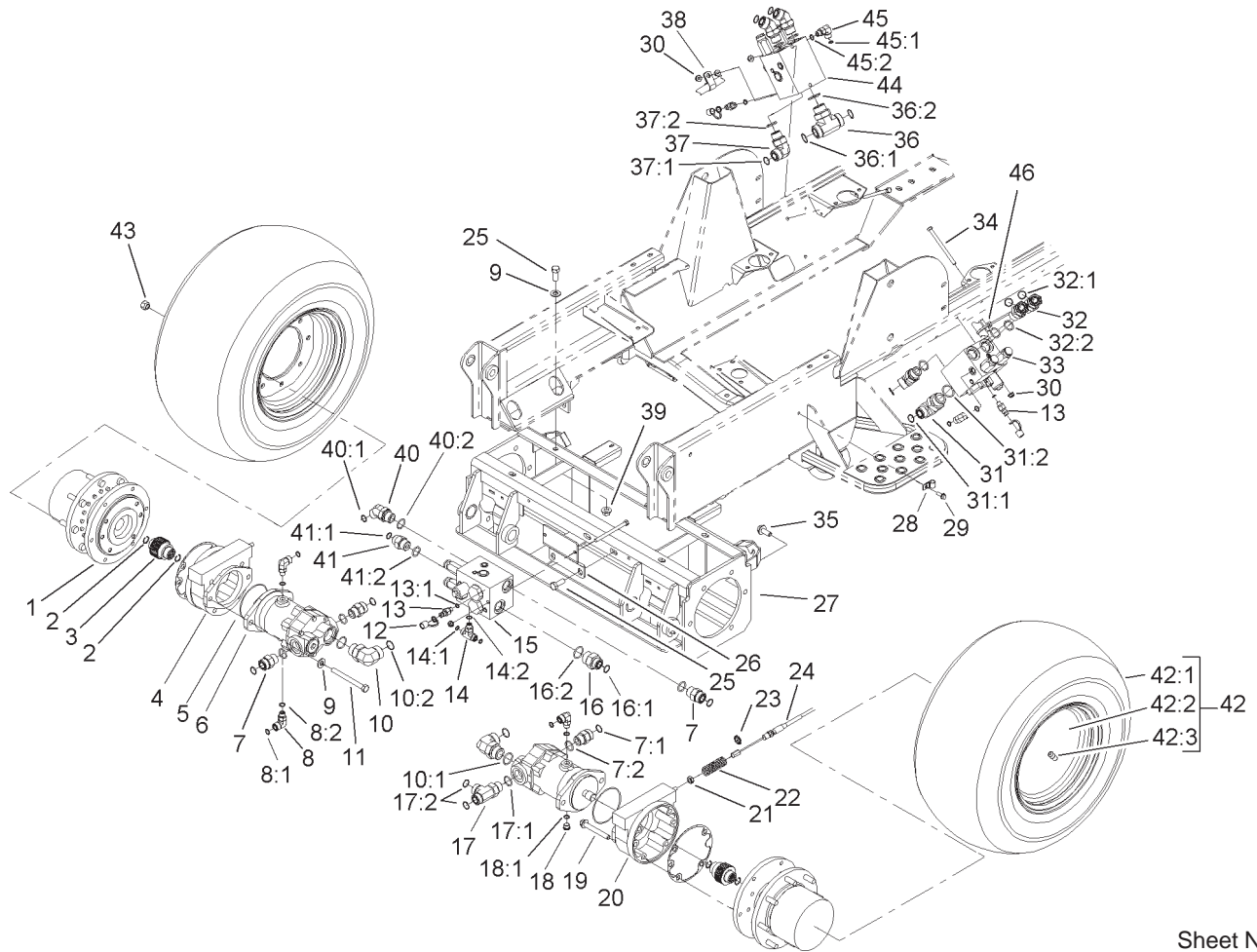
Ref. No.	Part No.	Qty.	Description
1	104-0764	1	Motor-Piston
2	340-2	1	Fitting-HYD, Straight
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	340-142	2	Fitting-HYD, 90°
3:1	237-58	1	O-Ring
3:2	237-81	1	O-Ring
4	325-7	2	Screw-HH
5	3256-26	2	Washer-Flat
6	237-166	1	O-Ring
7	32120-76	2	Ring-Snap, Ext
8	105-7447	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



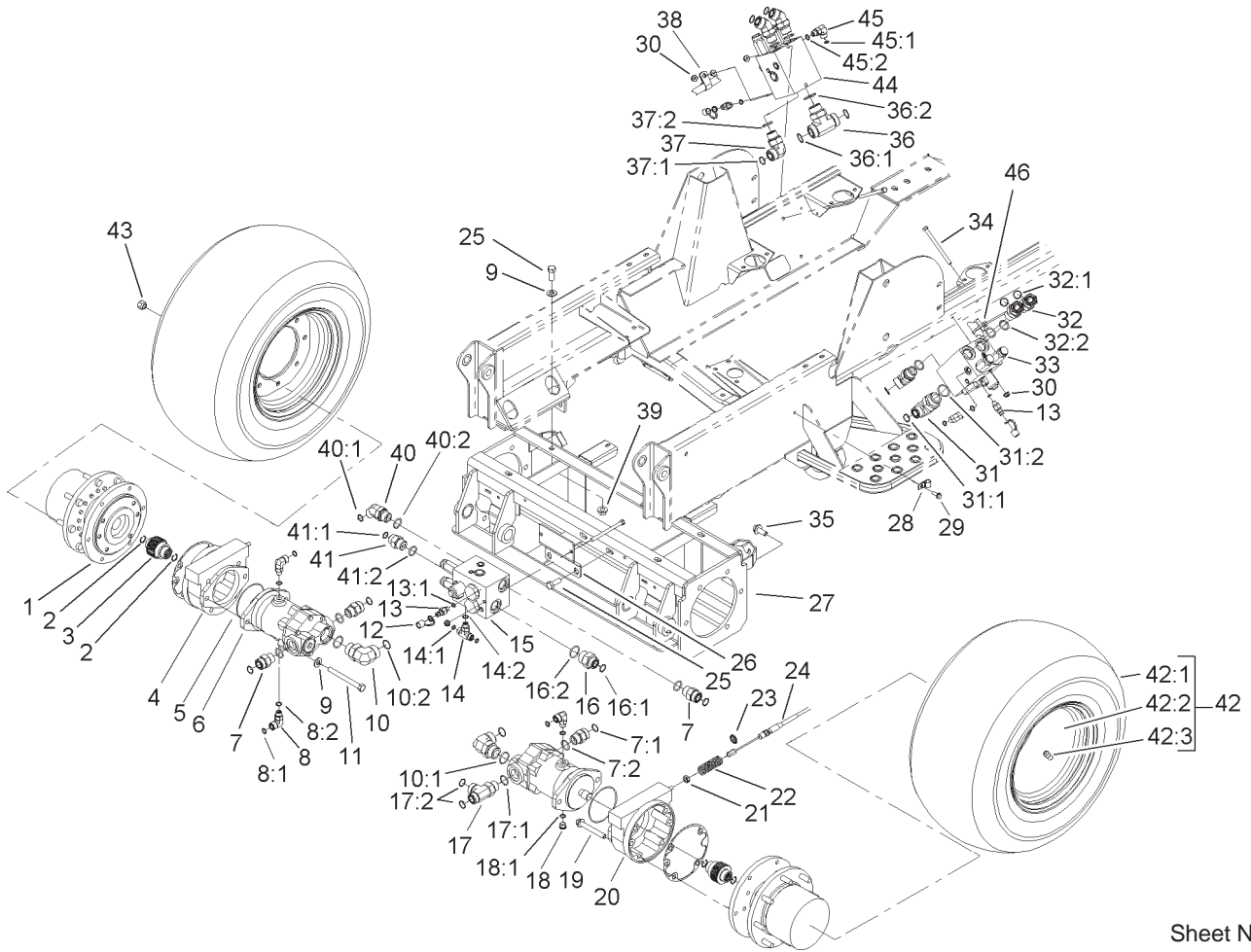




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## Front Frame Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	105-4588-03	2	Planetary ASM	16	340-91	1	Adapter
2	93-7972	4	Ring-Retaining, Internal	16:1	237-58	1	O-Ring
3	100-3046	2	Shaft-Brake, Splined	16:2	237-146	1	O-Ring
4	100-3069	1	Brake ASM	17	340-148	1	Fitting-Tee
5	237-166	2	O-Ring	17:1	237-81	1	O-Ring
6	105-7376	2	Front Piston Motor ASM	17:2	237-58	2	O-Ring
7	340-9	4	Fitting-HYD, Straight	18	353-989	1	Plug-Hex, Hollow
7:1	237-58	1	O-Ring	18:1	237-42	1	O-Ring
7:2	237-81	1	O-Ring	19	33106-090	8	Screw-HHF
8	340-99	3	Fitting-HYD-90	20	100-3070	1	Brake ASM
8:1	237-30	1	O-Ring	21	3218-4	2	Nut-Jam
8:2	237-42	1	O-Ring	22	94-3088	2	Spring-Compression
9	3256-26	10	Washer-Flat	23	94-3050	2	Plate-Spring
10	340-129	2	Fitting-HYD, 90°	24	99-5501	2	Brake Cable ASM
10:1	237-146	1	O-Ring	25	325-6	6	Screw-HH
10:2	340-65	1	O-Ring	26	104-0746-03	1	Bracket-Manifold
11	33116-120	4	Screw-HH	27	105-7491-03	1	Front Frame ASM
12	354-79	3	Cap-Dust	28	2412-93	2	Clamp-R
13	354-77	3	Fitting-Quick	29	32144-11	2	Screw-TAP
13:1	237-78	1	O-Ring	30	104-8300	7	Nut-Flange, NI
14	340-94	1	Adapter	31	340-15	1	Fitting-HYD, 90°
14:1	237-22	2	O-Ring	31:1	237-58	1	O-Ring
14:2	237-42	1	O-Ring	31:2	237-146	1	O-Ring
15	106-2039	1	PTO Manifold ASM	32	100-5530	5	Fitting-HYD, 45°
				32:1	237-58	1	O-Ring
				32:2	237-81	1	O-Ring



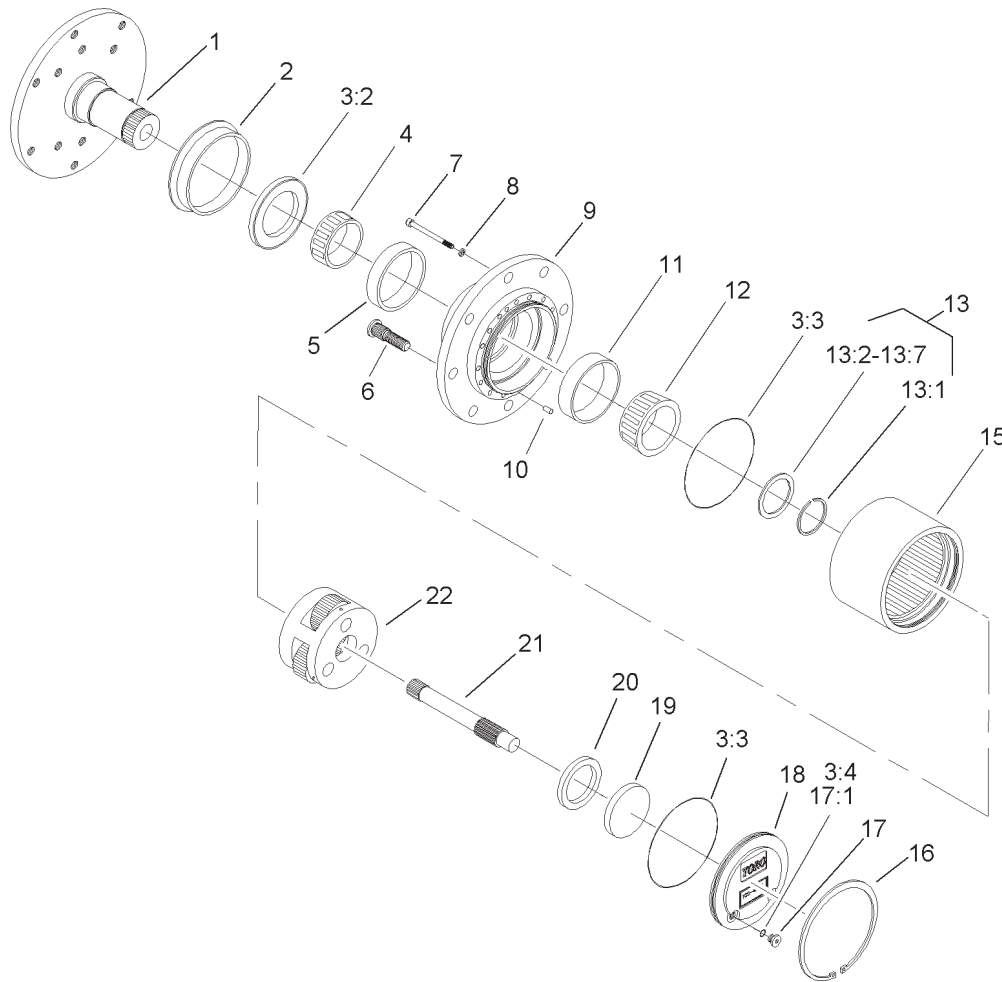
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### Front Frame Assembly (Continued)

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



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## Planetary Assembly No. 105-4588-03

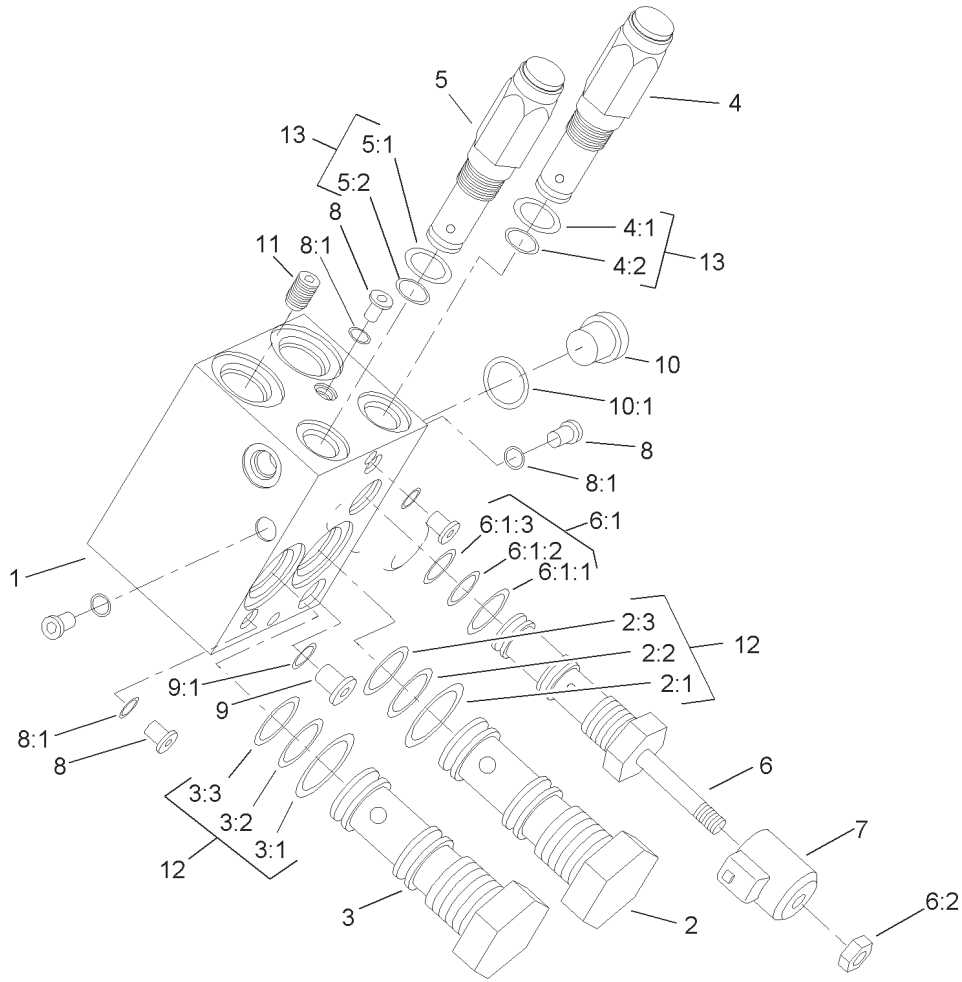
Ref. No.	Part No.	Qty.	Description
☆1		1	Spindle
2	105-8122	1	Seal-Boot
3	105-8137	1	Seal Kit
☆3:2		1	Seal-Oil
☆3:3		2	O Ring-End Cap
3:4	237-78	2	O-Ring
4	105-8120	1	Bearing-Cone
5	105-8119	1	Bearing-Cup
6	105-8124	8	Stud-Wheel
7	105-8125	16	Bolt-Head, Socket
8	3253-18	16	Washer-Lock/Sp
☆9		1	Housing
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 Plug
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







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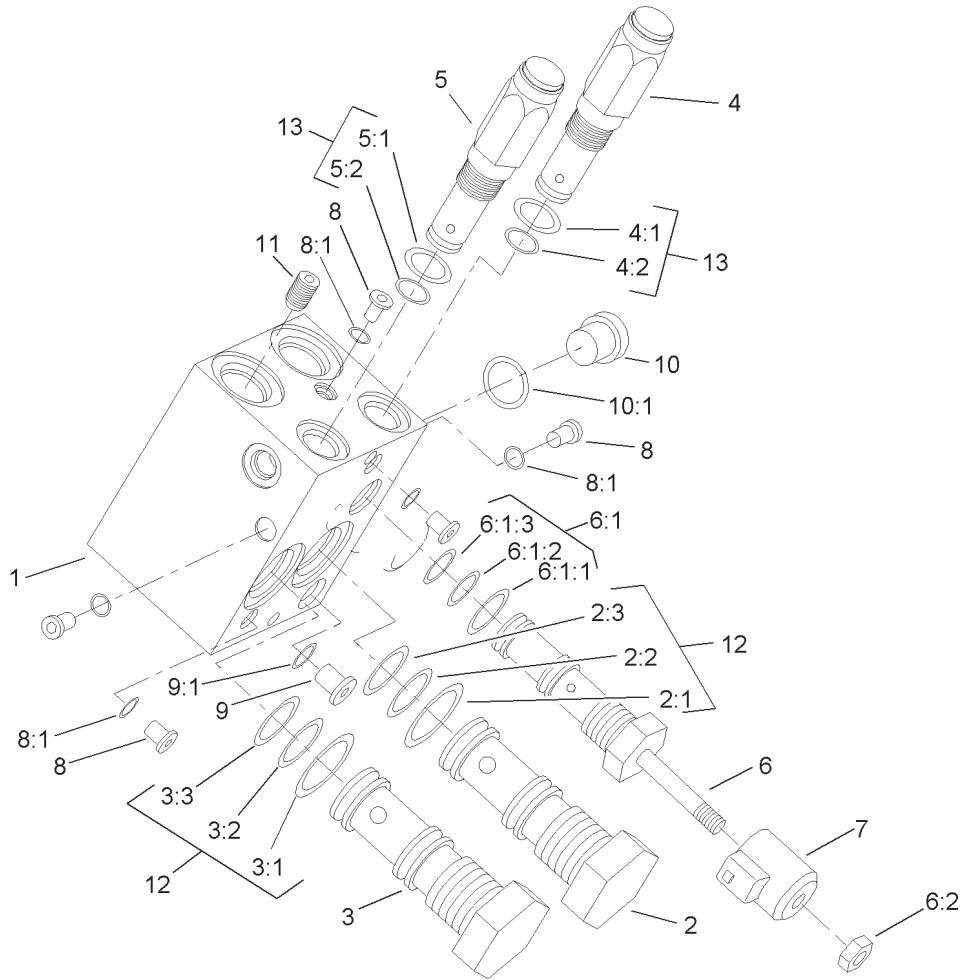
## Power Take Off Manifold Assembly No. 106-2039

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





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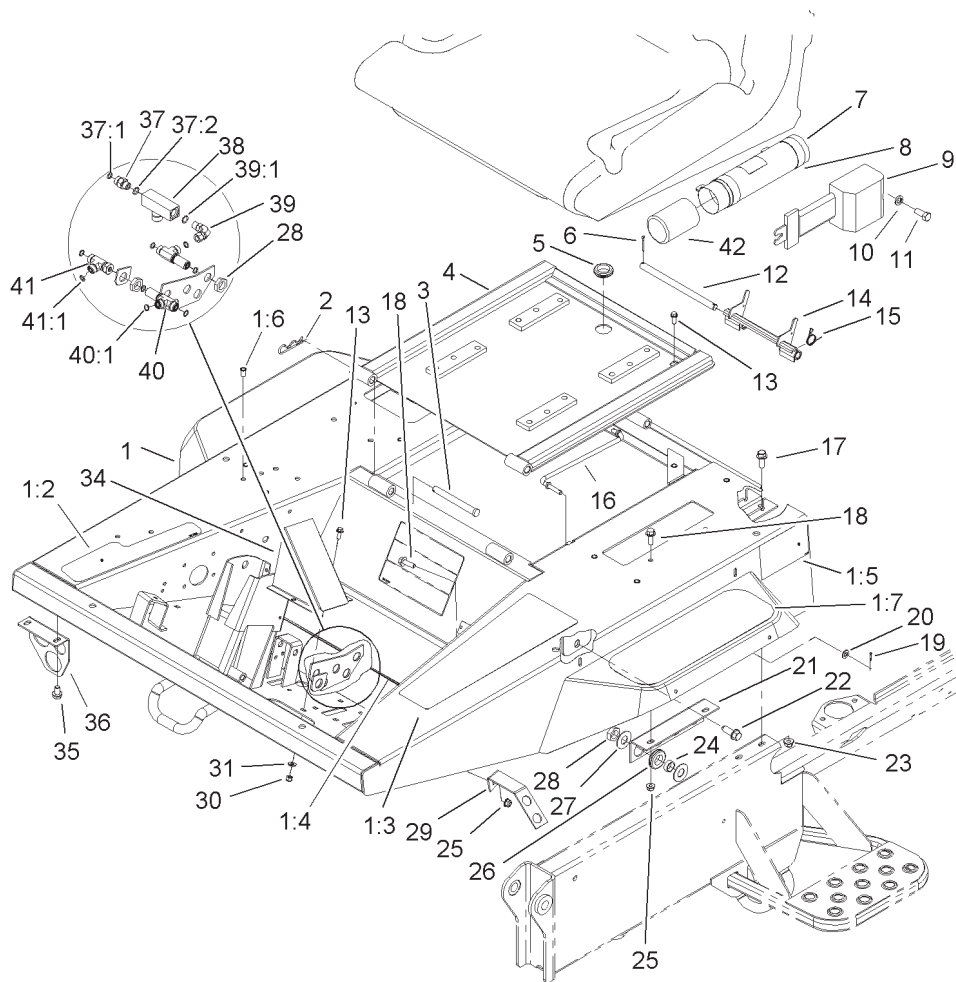
## Power Take Off Manifold Assembly No. 100-3055

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



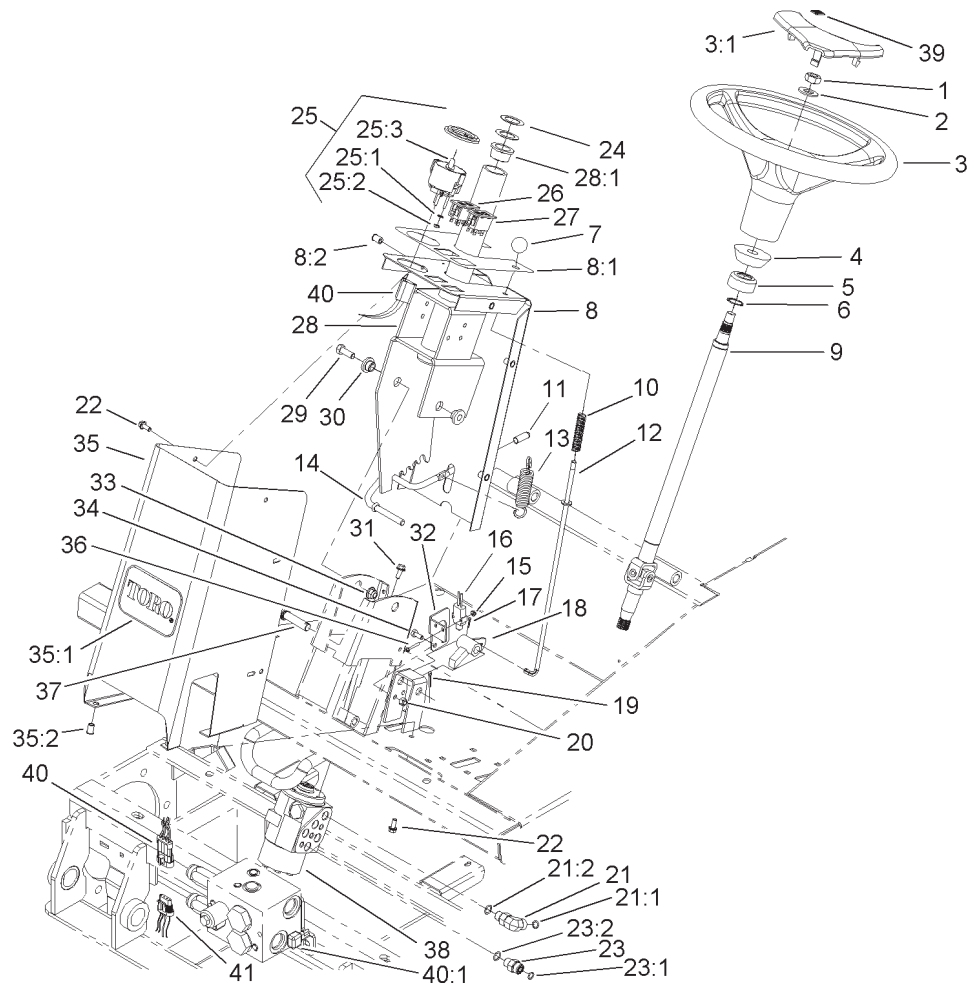


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## Platform and Seat Base Assembly

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



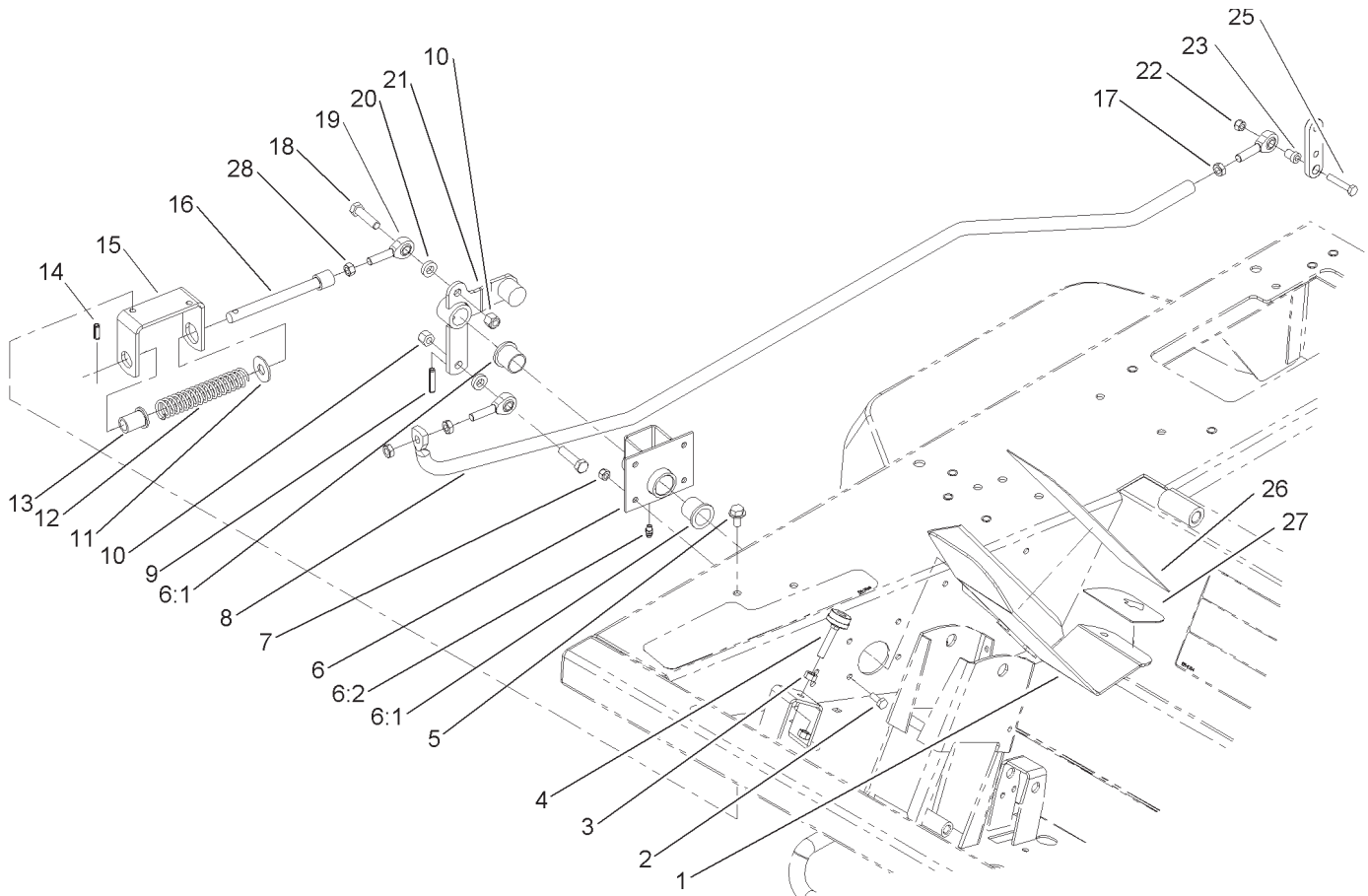
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## Steering Tower Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	93-5590	1	Nut-Hex	21:2	237-42	1	O-Ring
2	3256-27	1	Washer-Flat	22	3234-33	10	Screw-HHF
3	98-1471	1	Wheel-Steering	23	340-2	4	Fitting-HYD, Straight
3:1	98-1468	1	Cover-Wheel, Steering	23:1	237-22	1	O-Ring
4	93-5429	1	Collar-Foam	23:2	237-42	1	O-Ring
5	93-5439	1	Seal-Steering	24	256-260	4	Washer-Thrust
6	32151-29	2	Ring-Retaining	25	98-9308	1	Gauge-Temperature
7	93-5312	1	Knob	25:1	3254-1	3	Washer-Lock, Int
8	104-2274	1	Tower Cover ASM	25:2	3217-27	3	Nut-Hex
8:1	104-2277	1	Decal-Tower	25:3	105-9265	1	Bulb And Lamp ASM
8:2	32148-6	6	Insert-Nut	26	100-8070	1	Lamp-Warning
9	93-5428	1	Steering Shaft ASM	27	100-8071	1	Lamp-Warning
10	71-8310	1	Spring-Compression	28	104-8332	1	Steering Column ASM
11	93-5446	1	Cap-Vinyl	28:1	256-132	2	Bushing-Flange
12	104-8308	1	Rod ASM	29	323-6	2	Screw-HH
13	93-5985	1	Spring-Extension	30	93-5988	2	Hub-Pivot
14	93-5989	1	Rod-Tilt	31	33103-016	4	Screw-HHF
15	3296-9	2	Nut-Lock, NI	32	104-0128	1	Bracket-Switch
16	99-3410	1	Switch	33	104-8301	2	Nut-Flange, NI
17	3272-5	1	Pin-Cotter	34	321-3	2	Screw-HH
18	93-5276-03	1	Brake Pawl ASM	35	100-3038	1	Steering Tower ASM
19	3272-10	1	Pin-Cotter	35:1	67-1300	1	Decal
20	3296-42	2	Nut-Lock, NI	35:2	32148-6	4	Insert-Nut
21	340-77	1	Fitting-HYD, 90°	36	3250-35	2	Screw-PPH
21:1	237-22	1	O-Ring	37	283-5	1	Pin-Clevis
				38	104-2213	1	Valve-Steering







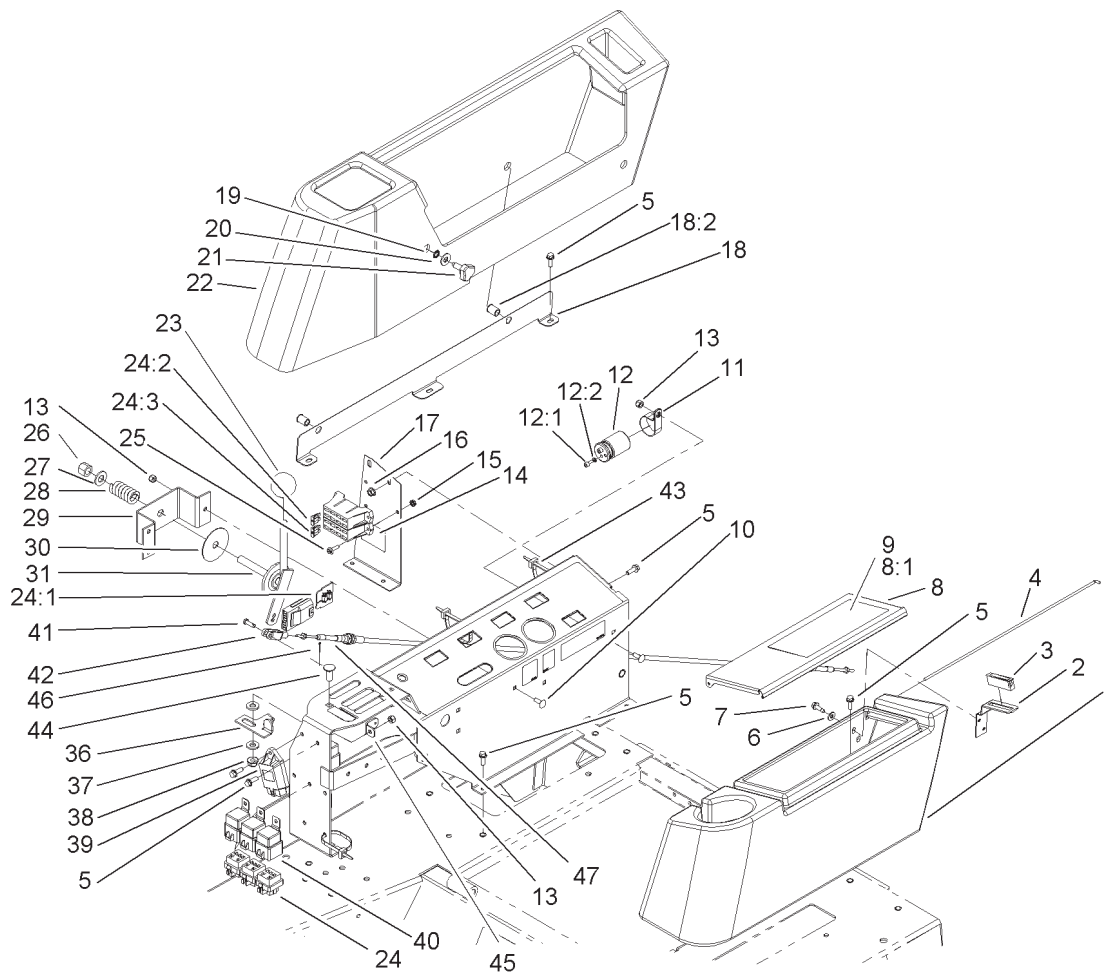
Sheet No.:7

## 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



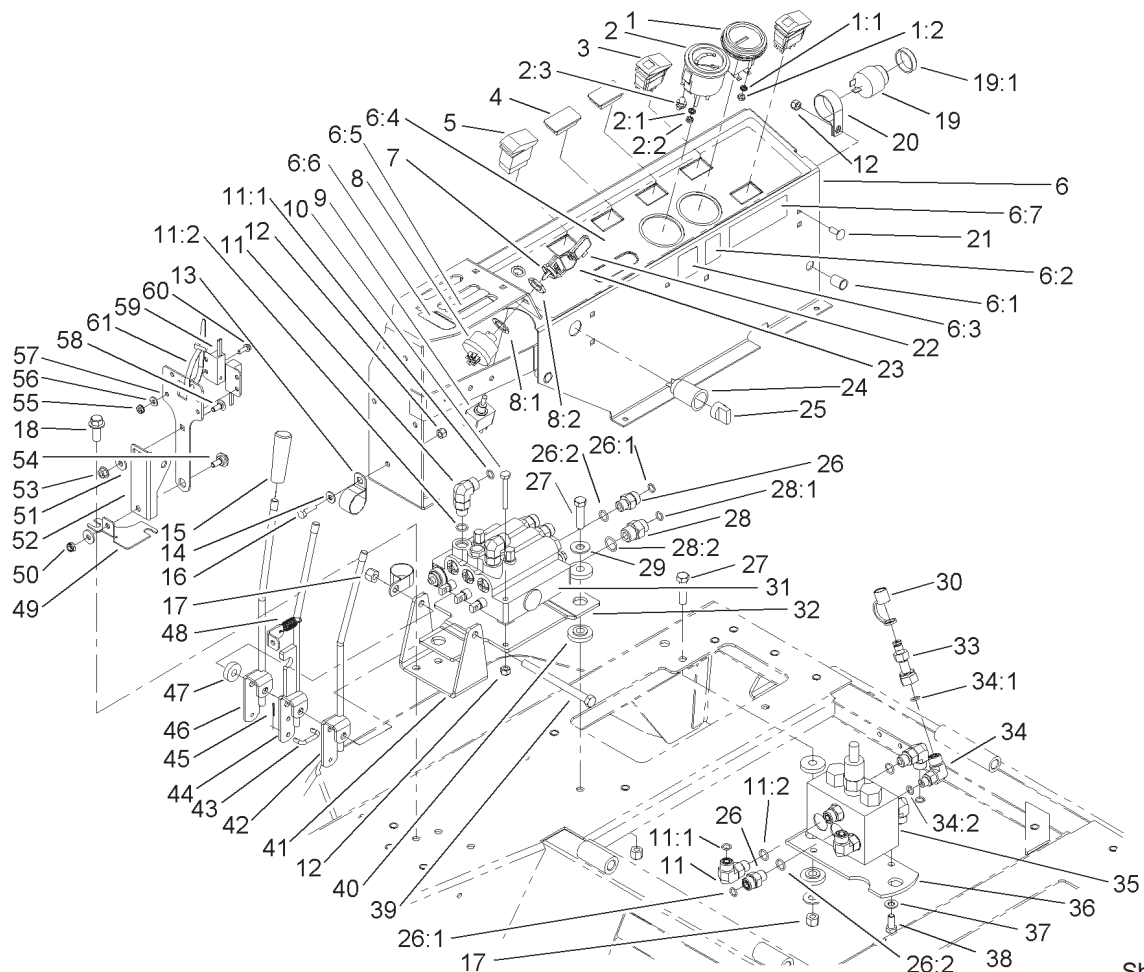


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## Tool Box Assembly

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

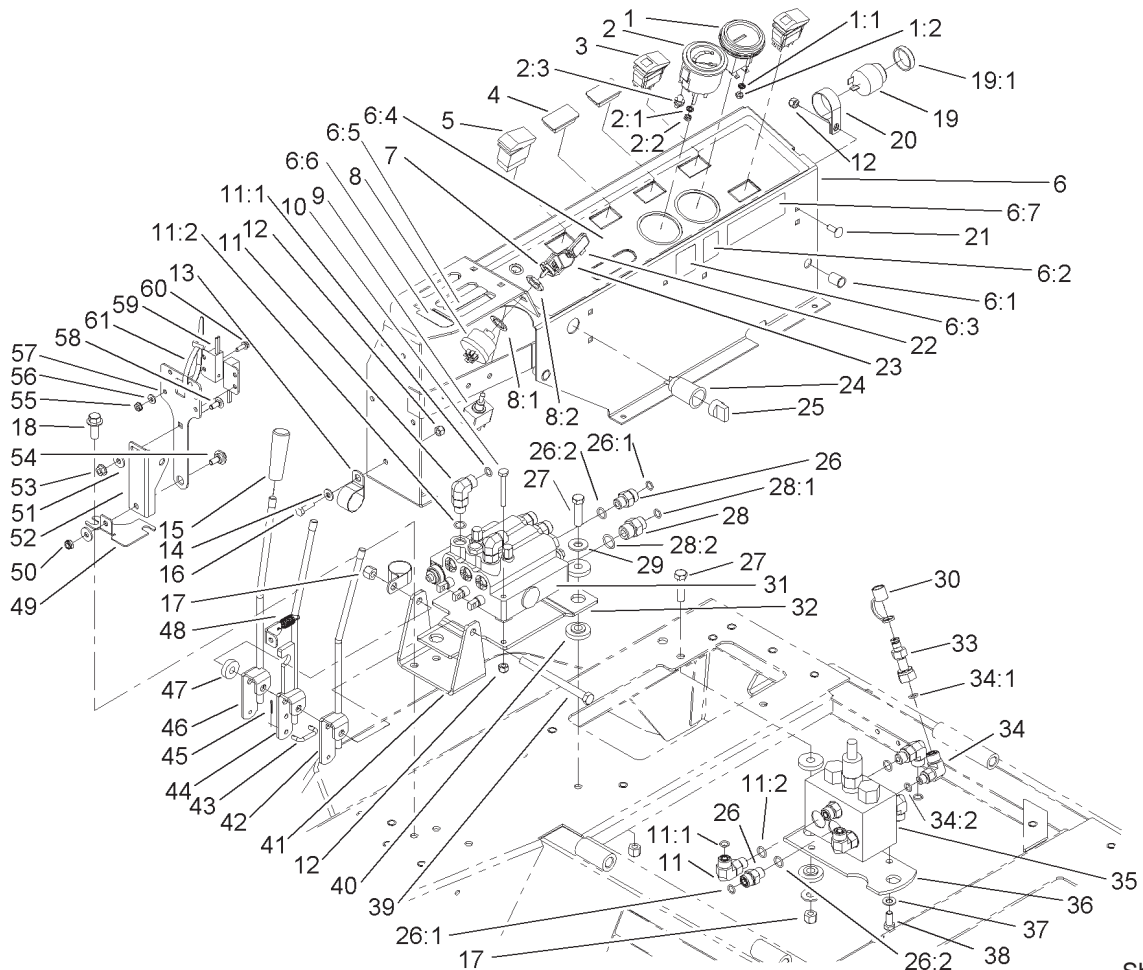


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## Control Console Assembly

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

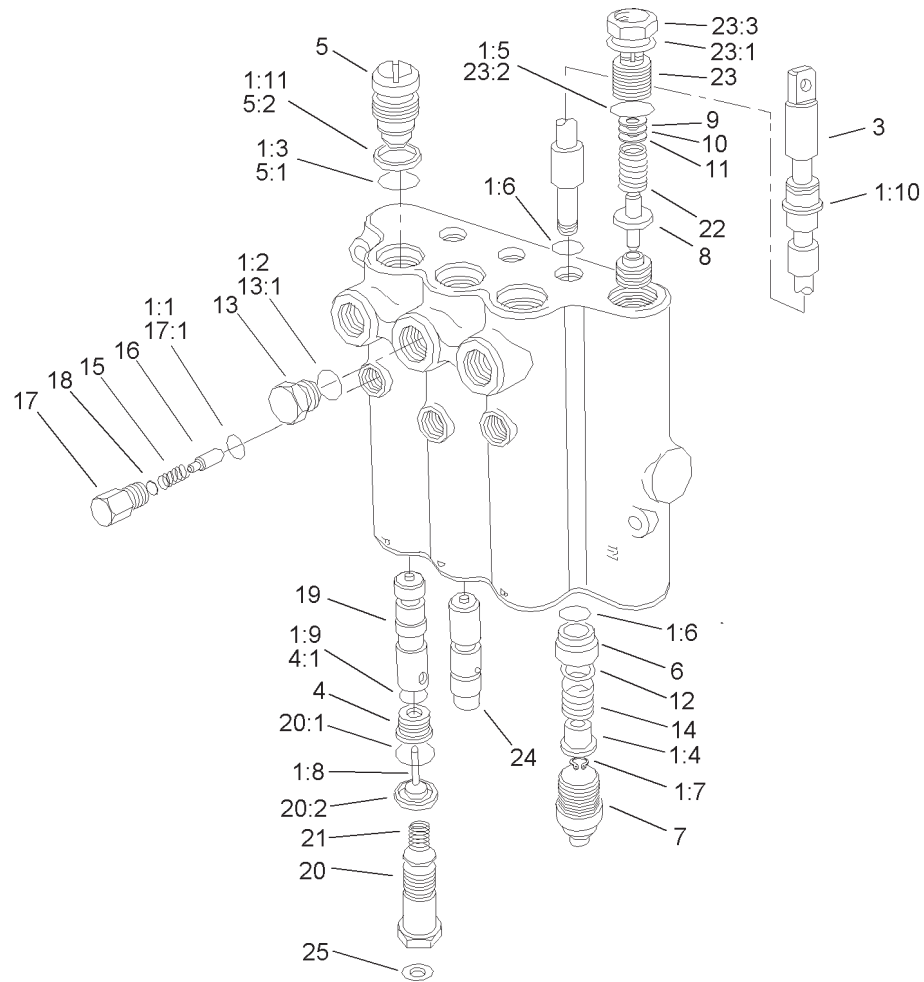


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## Control Console Assembly (Continued)

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



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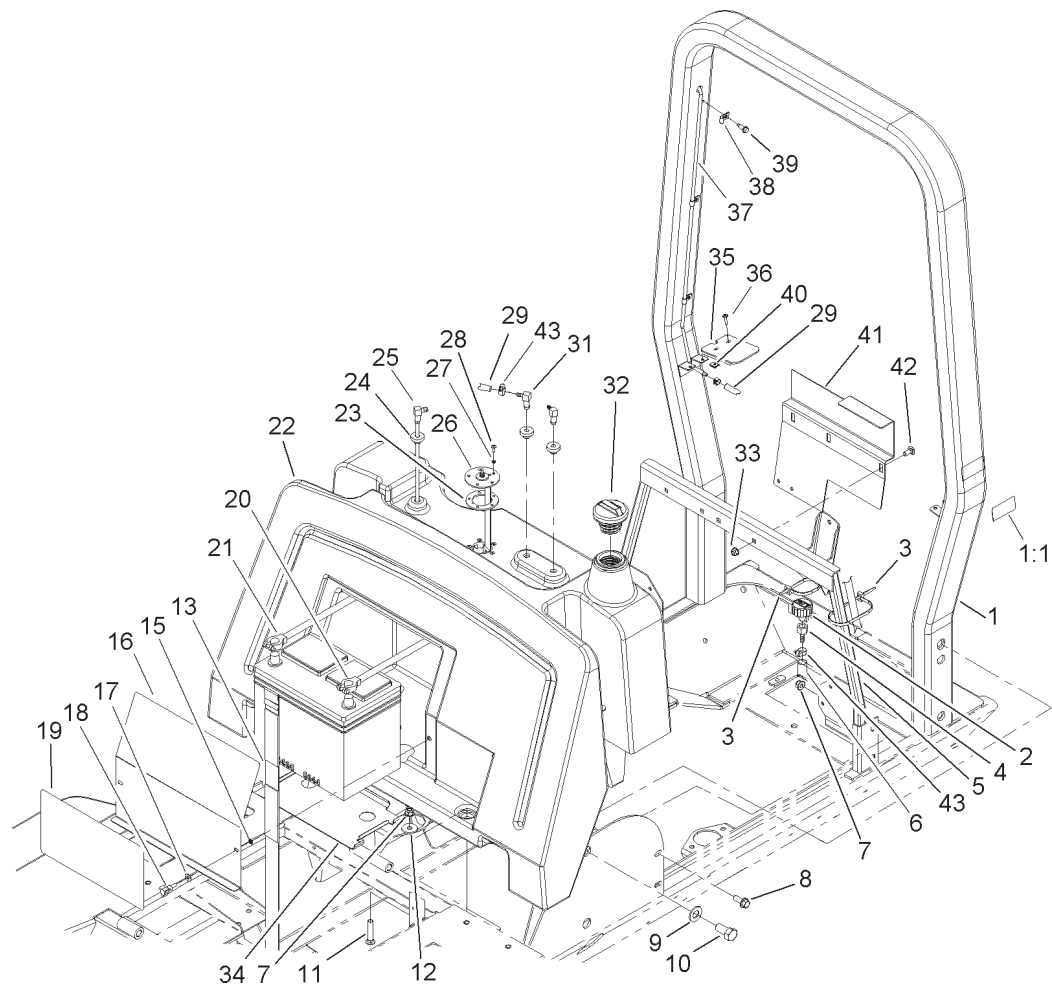
## Control Valve Assembly No. 69-1780

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

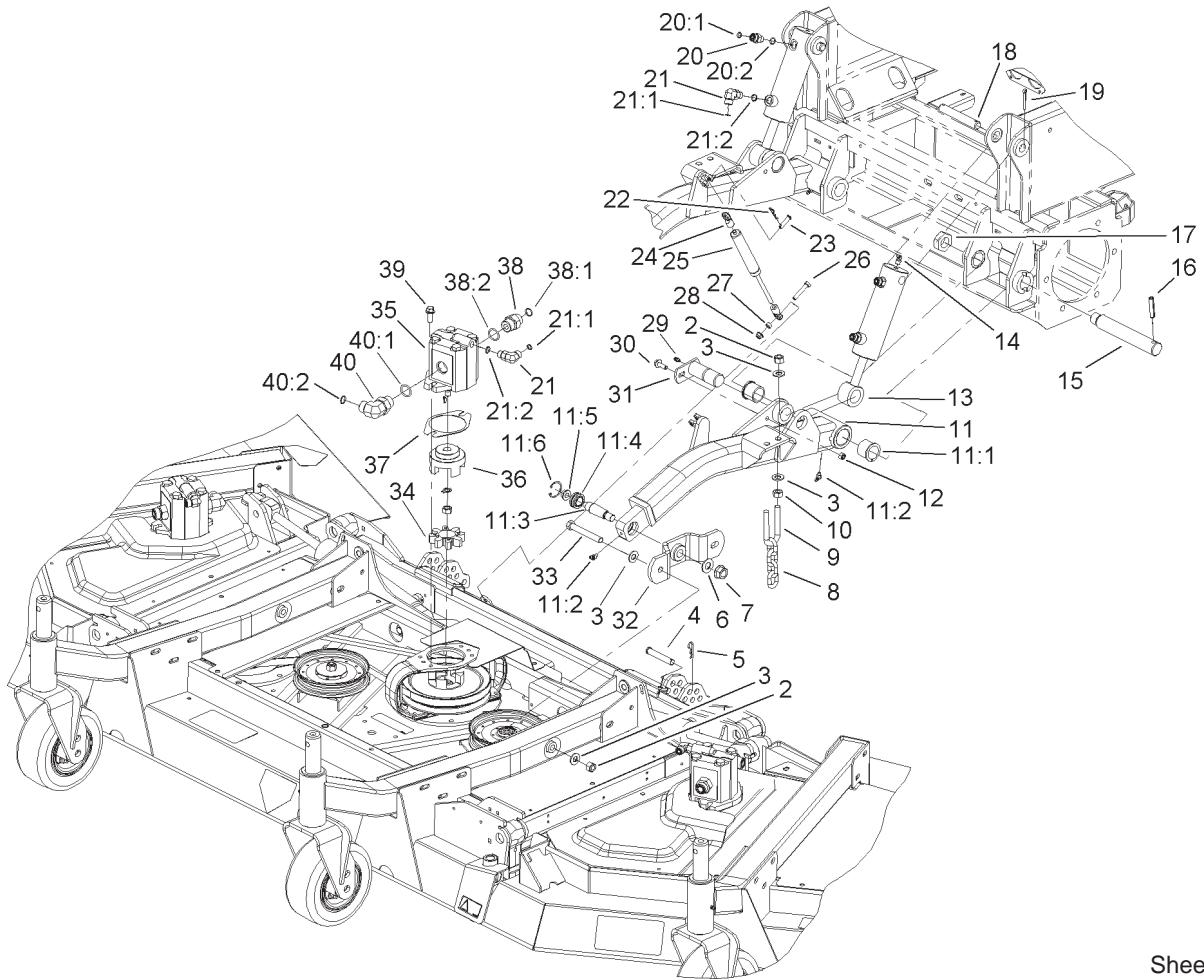




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## Fuel Tank, Battery and Roll Over Protection System Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	105-2849	1	Rops ASM	24	46-6560	3	Bushing
1:1	105-2834	1	Decal-Rops	25	104-0701	1	Pipe-Stand
2	68-6150	1	Breather	26	104-0700	1	Sender-Fuel
3	3290-378	2	Tie-Cable	27	3253-15	5	Washer-Lock/Sp
4	354-95	1	Fitting-Female, Barbed	28	32122-24	5	Screw-Pth
5	104-0714-03	1	Tank Support ASM	29	47-2986	1	Hose-Fuel
6	95-4274	1	Hose-Fuel	31	104-5228	2	Elbow-90°
7	104-8301	6	Nut-Flange, NI	32	93-3102	1	Cap-Fuel
8	3234-42	4	Screw-HHF	33	104-8300	2	Nut-Flange, NI
9	3256-27	4	Washer-Flat	34	105-0774-03	1	Plate-Battery
10	327-3	4	Screw-HH	35	104-8319	2	Cover-Tank
11	3231-6	2	Screw-CARR	36	3250-13	4	Screw-PPH
12	63-8410	2	Washer	37	104-0718	1	Tube-Vent
13	94-1445	1	Strap-Battery	38	2412-72	3	Clip-Closed, Insulated
15	32151-106	2	Ring-Retaining	39	32104-95	3	Screw-HWH
16	104-0717-03	1	Cover-Battery	40	3290-191	4	Nut-Speed
17	3256-22	2	Washer-Flat	41	104-2286-03	1	Bracket-Tank, Fuel
18	233-70	2	Knob-3 Star	42	3230-1	2	Bolt-CARR
19	105-7358	1	Decal-Service	43	2412-108	3	Clamp-Worm
20	104-0761	1	Cable-Negative				
21	104-0760	1	Cable-Positive				
22	100-8119	1	Tank-Fuel				
23	62-7650	1	Gasket				



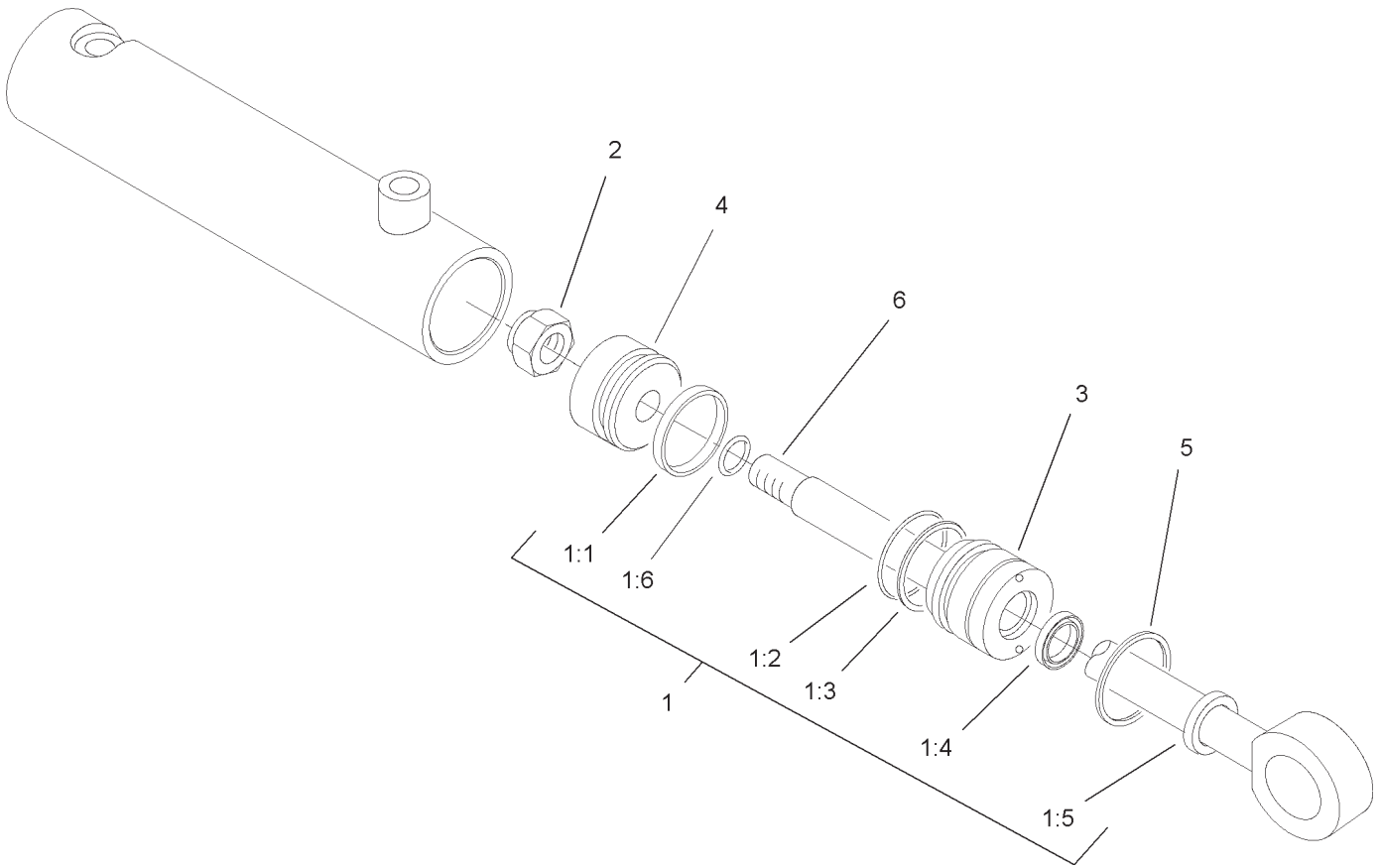
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## Front Deck Lift Arm and Cylinder Assembly

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.:B8

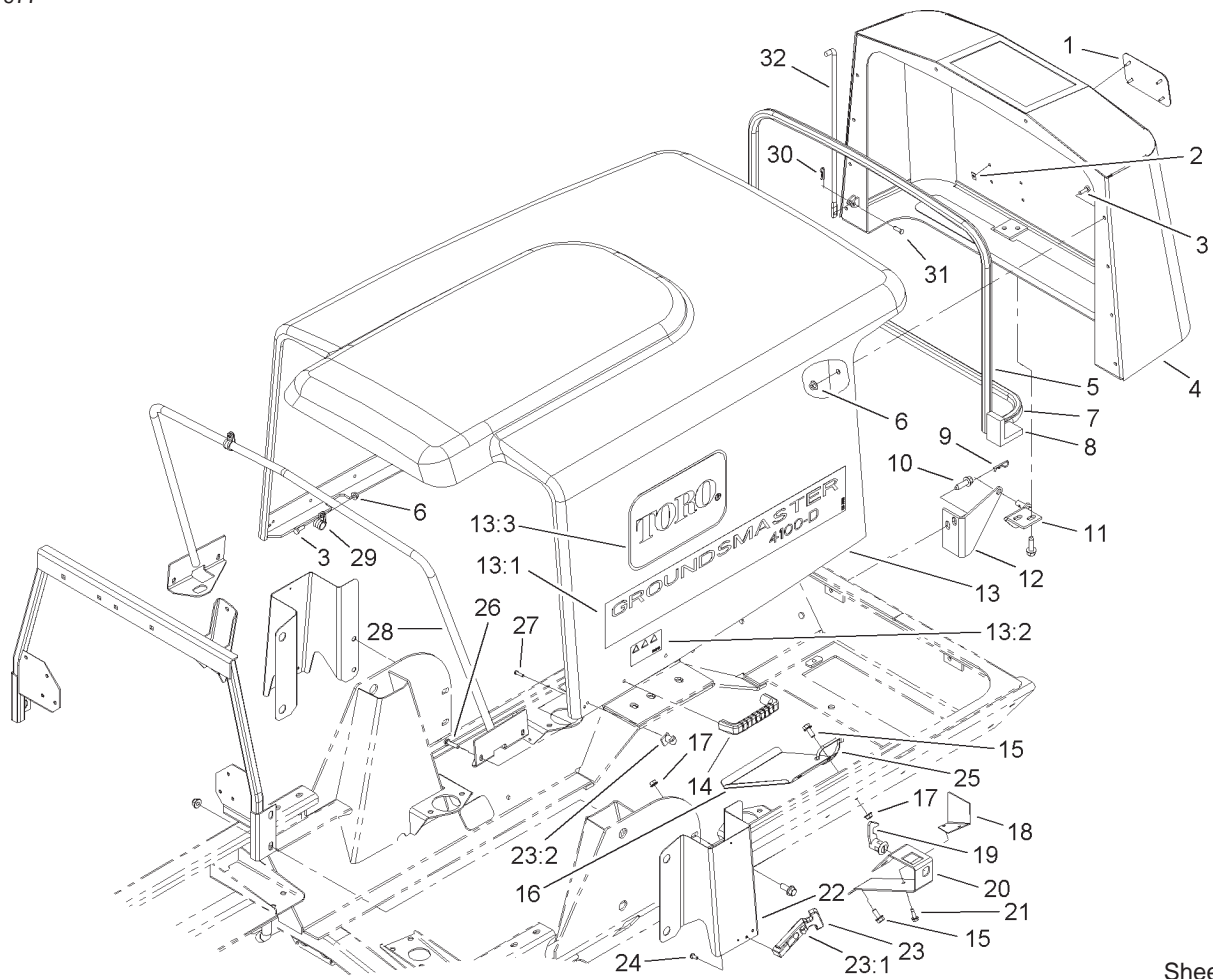
## Hydraulic Lift Cylinder Assembly No. 107-0162

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



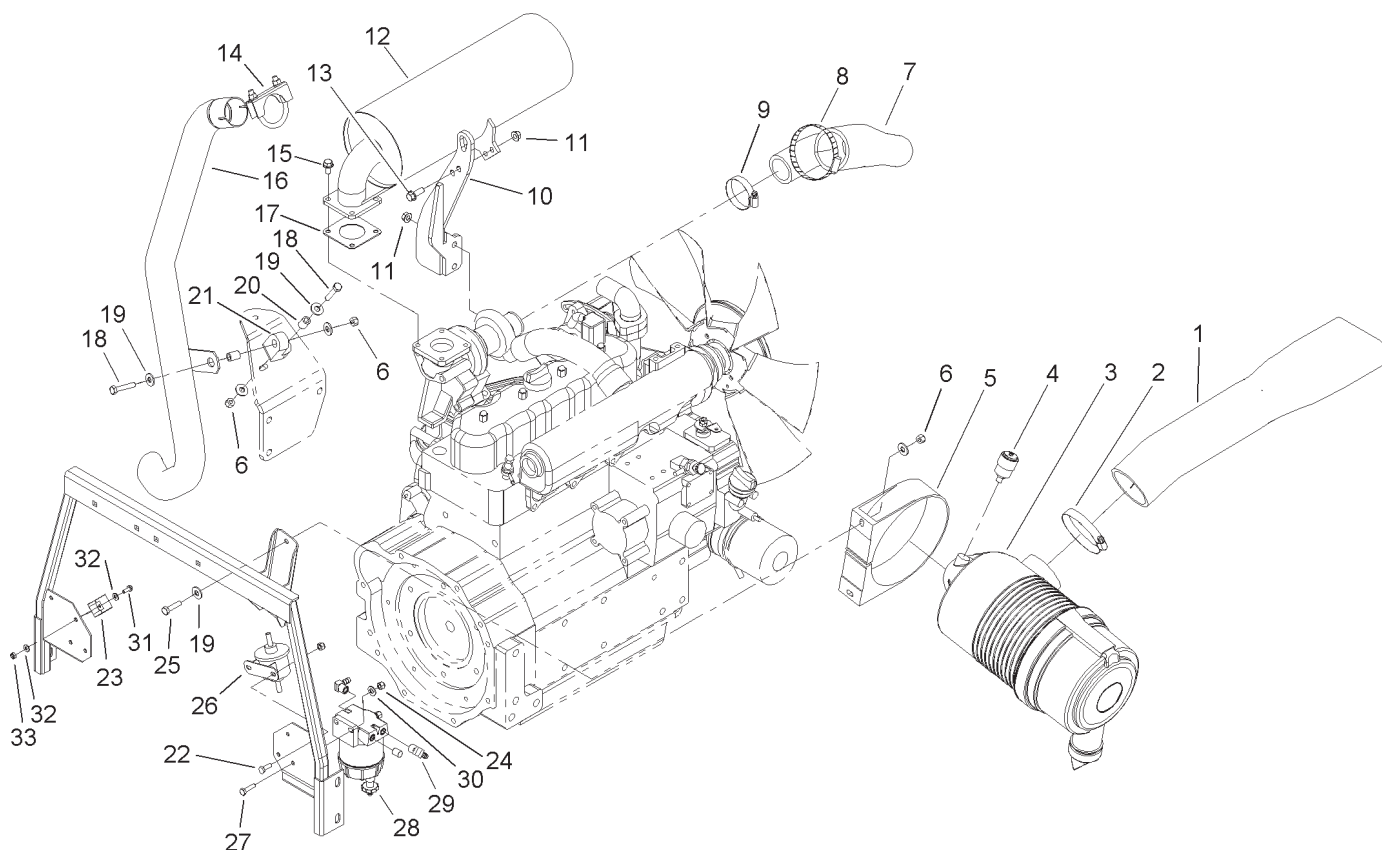


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## Hood Assembly

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

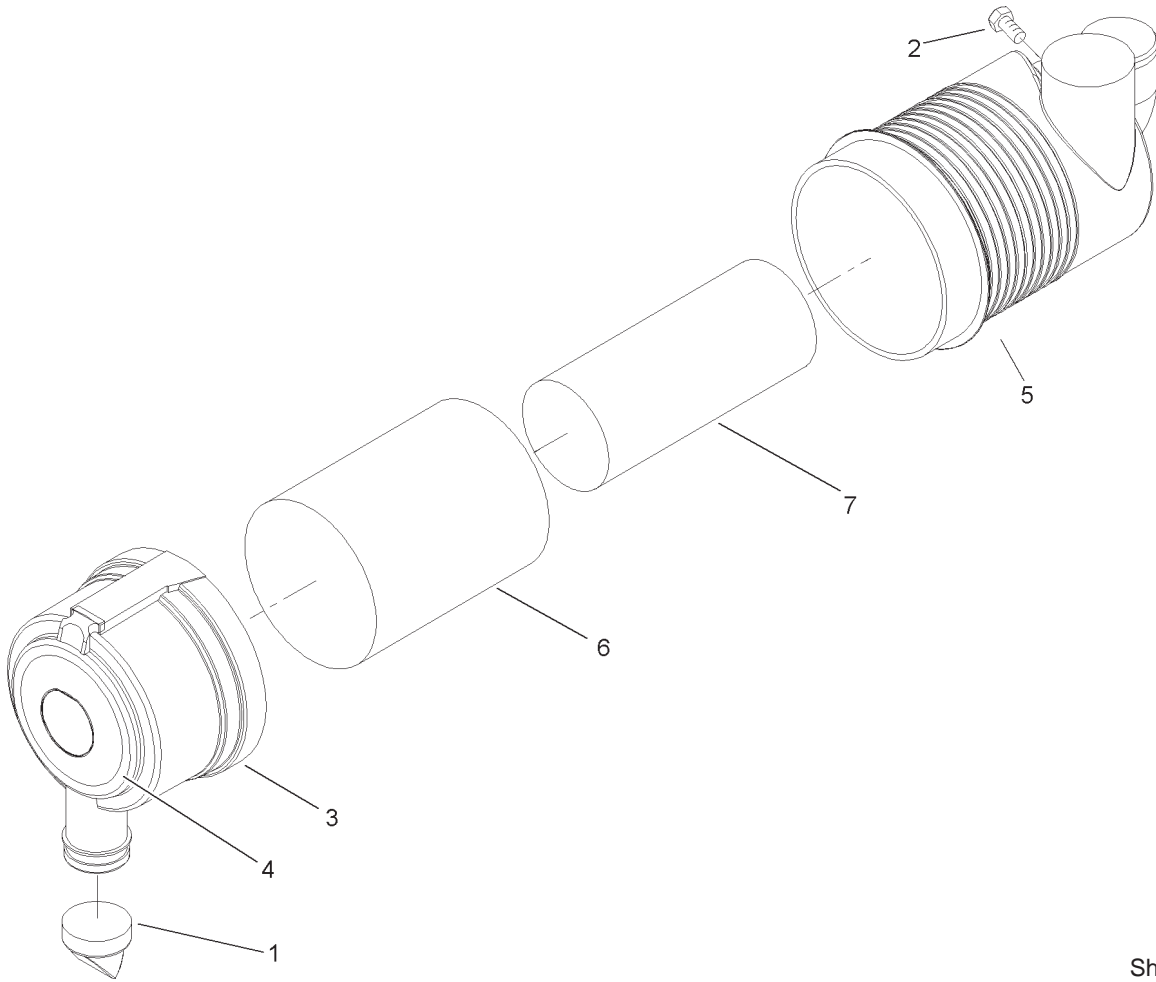


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## Air Cleaner and Muffler Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	100-5550	1	Hose-Cleaner, Air	26	107-0122	1	Pump-Fuel, Electric
2	2412-125	1	Clamp-Hose	27	321-4	2	Screw-HH
3	99-5410	1	Cleaner-Air	28	98-9305	1	Water/Fuel Filter ASM
4	104-3563	1	Indicator	29	353-781	2	Fitting-Elbow
*4:1	94-1416	1	Indicator Adapter ASM	30	3256-22	2	Washer-Flat
5	99-5414	1	Strap-Cleaner, Air	31	32105-2	1	Screw-SHWH
6	3296-29	4	Nut-Lock, NI	32	3256-14	2	Washer-Flat
7	99-5415	1	Hose-Cleaner, Air	33	3296-2	1	Nut-Lock
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				

\* Not illustrated



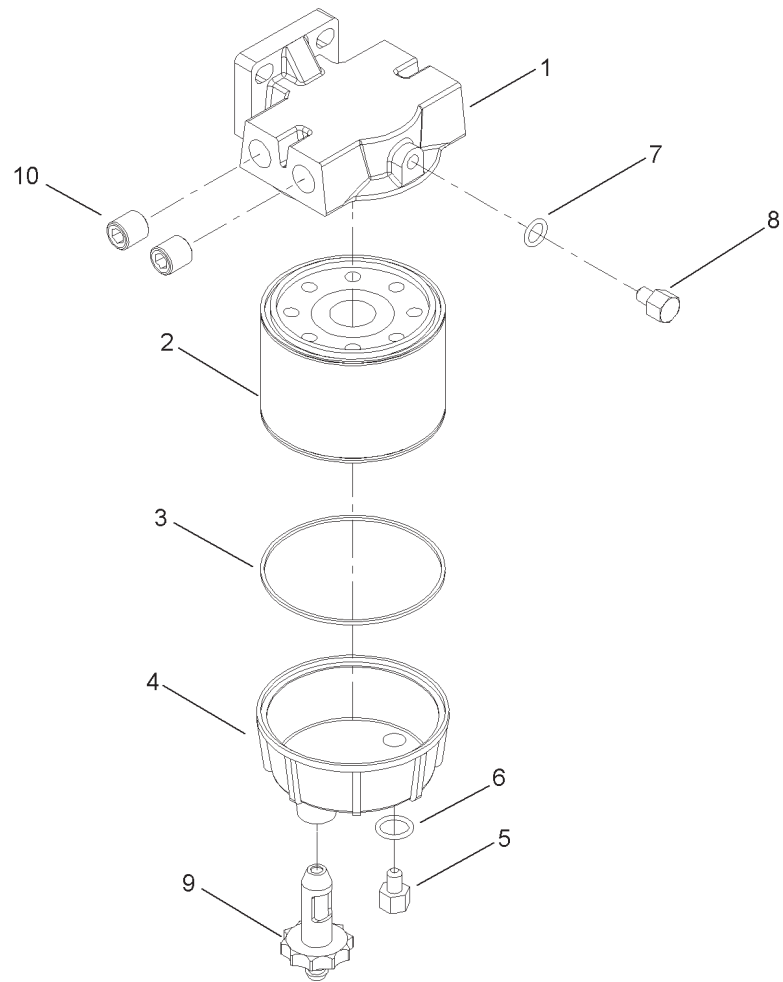
Sheet No.:C1

### 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

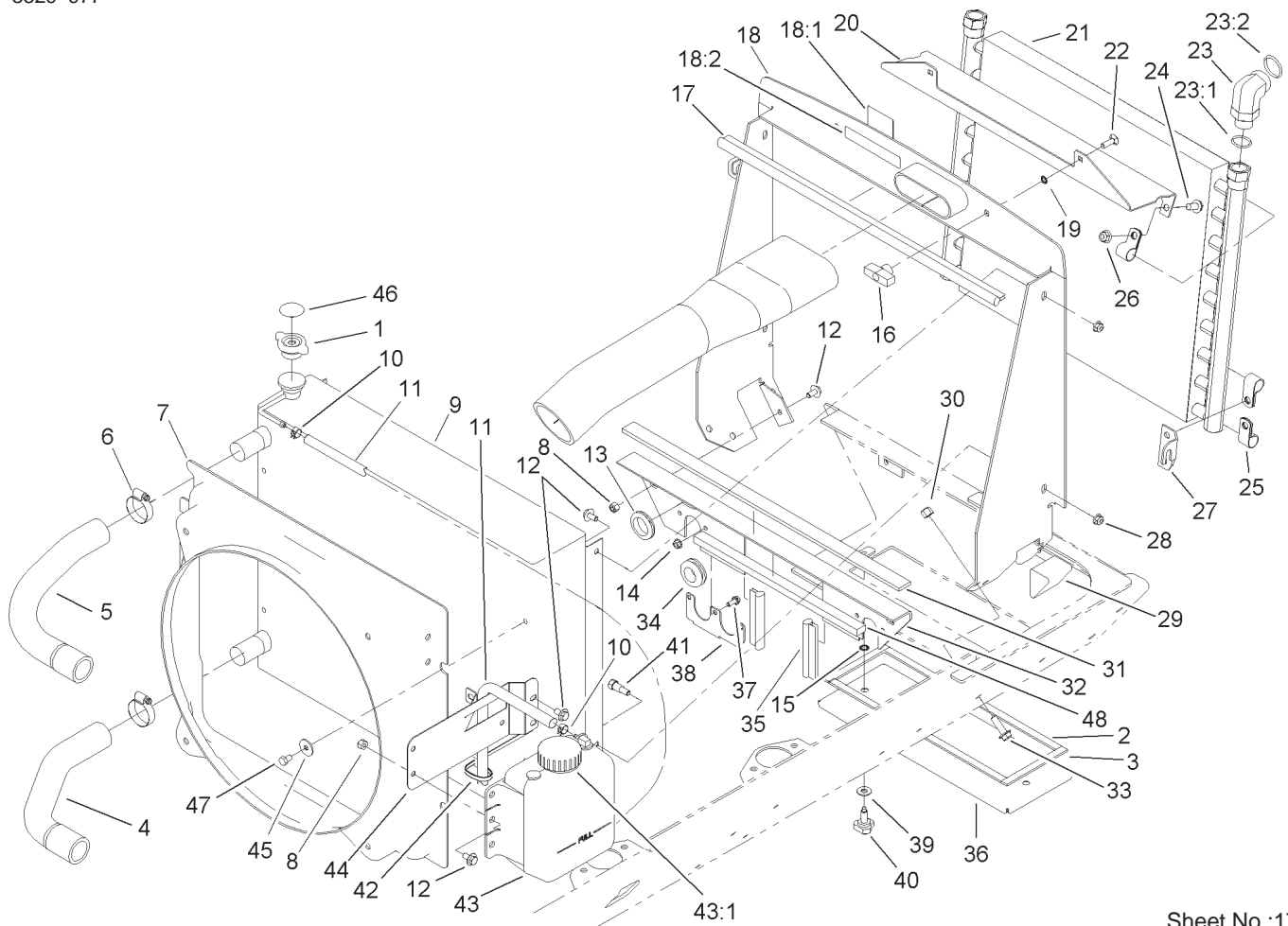


Sheet No.:C2

## 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

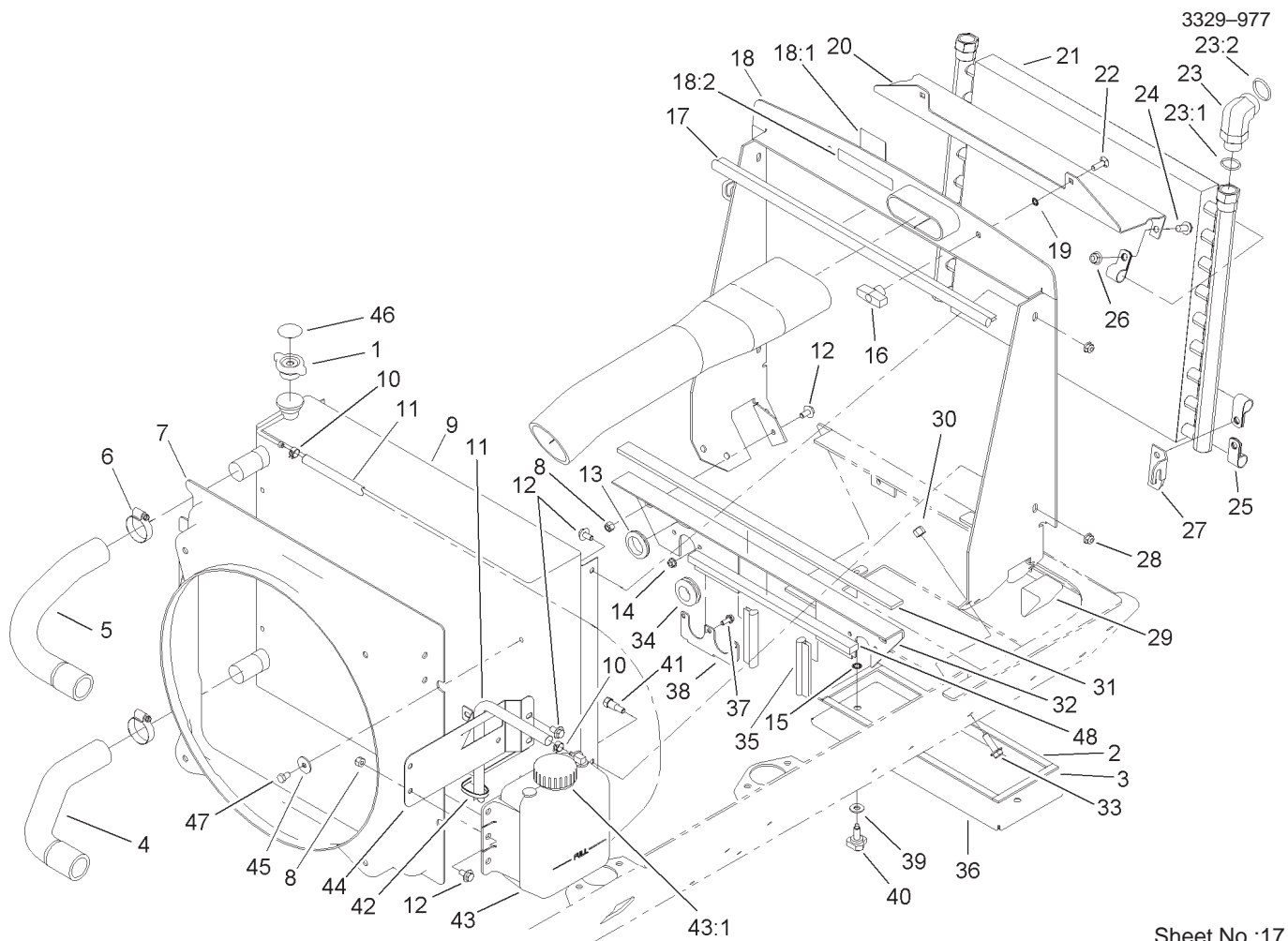


Sheet No.:17

## 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	Reservoir-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

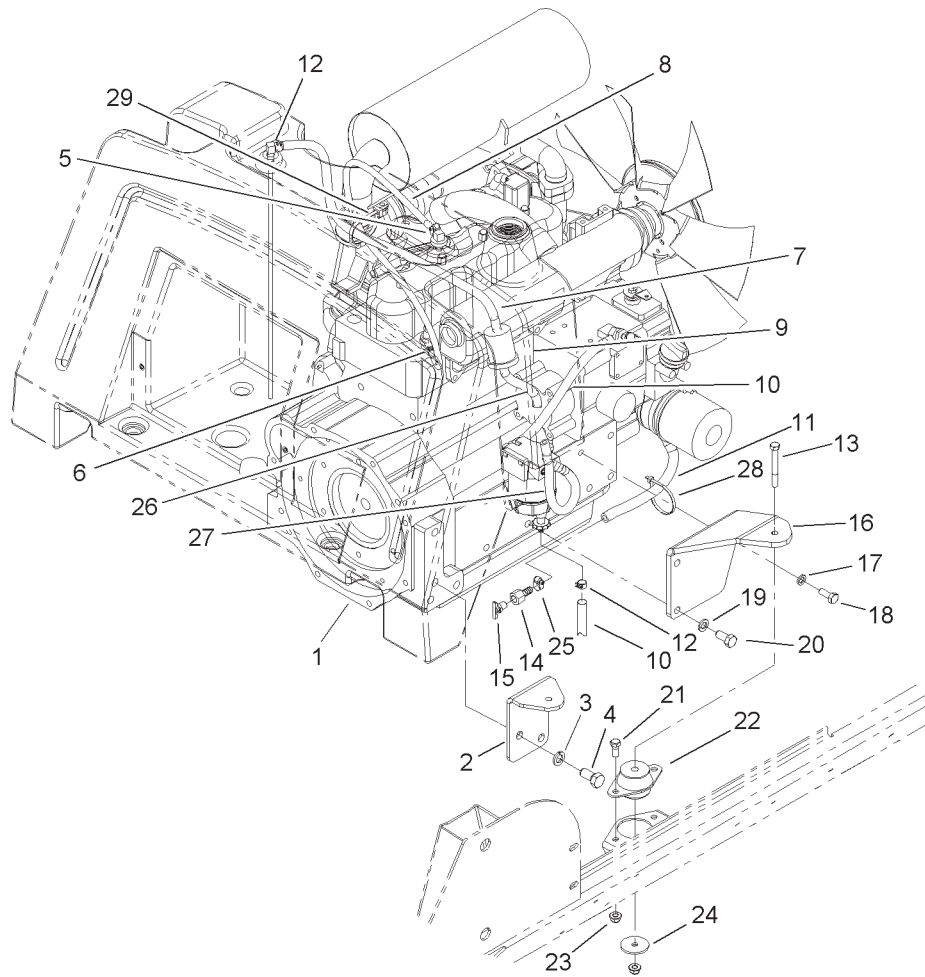


Sheet No.:17

## 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

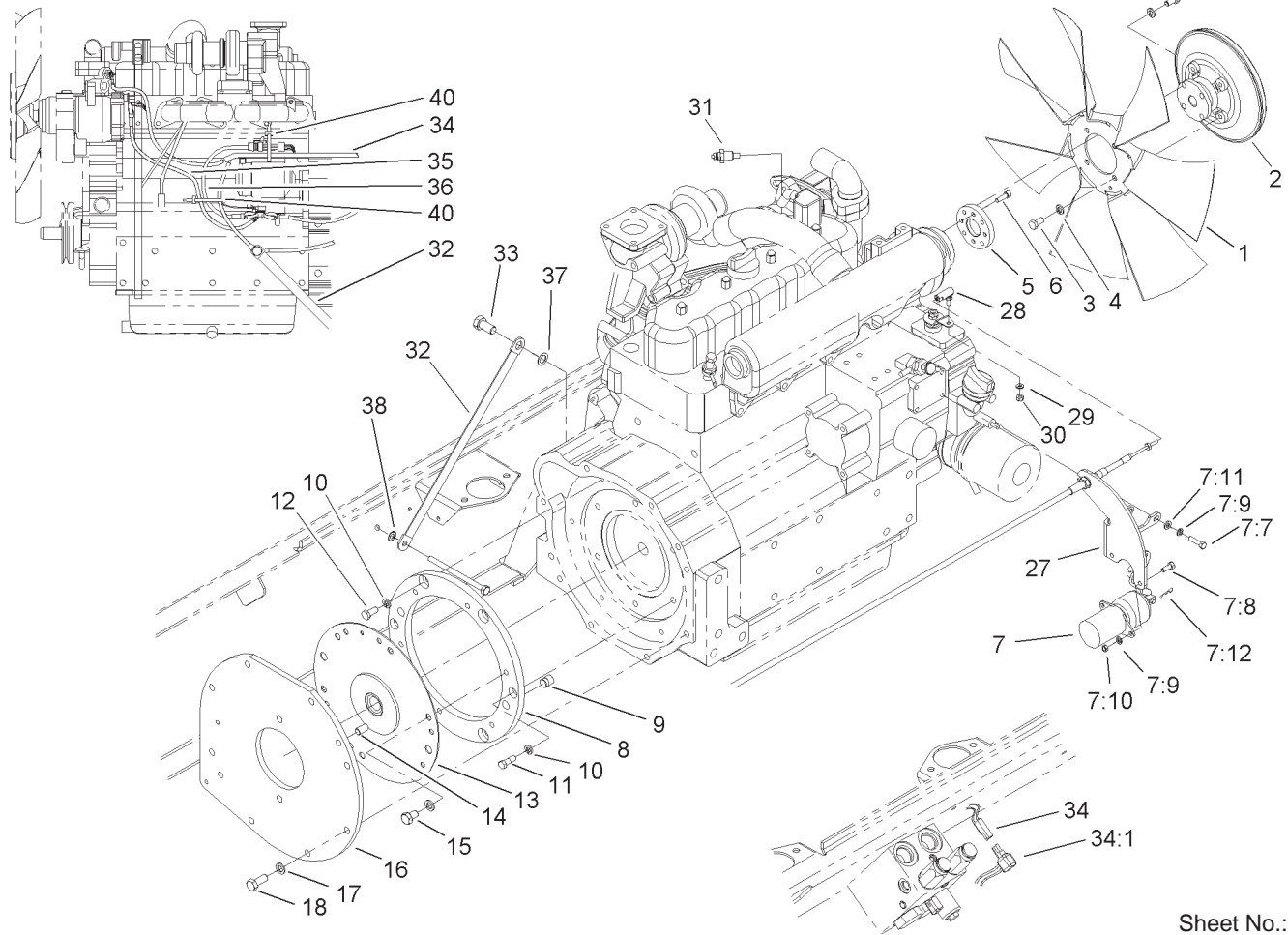


Sheet No.:18

## 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

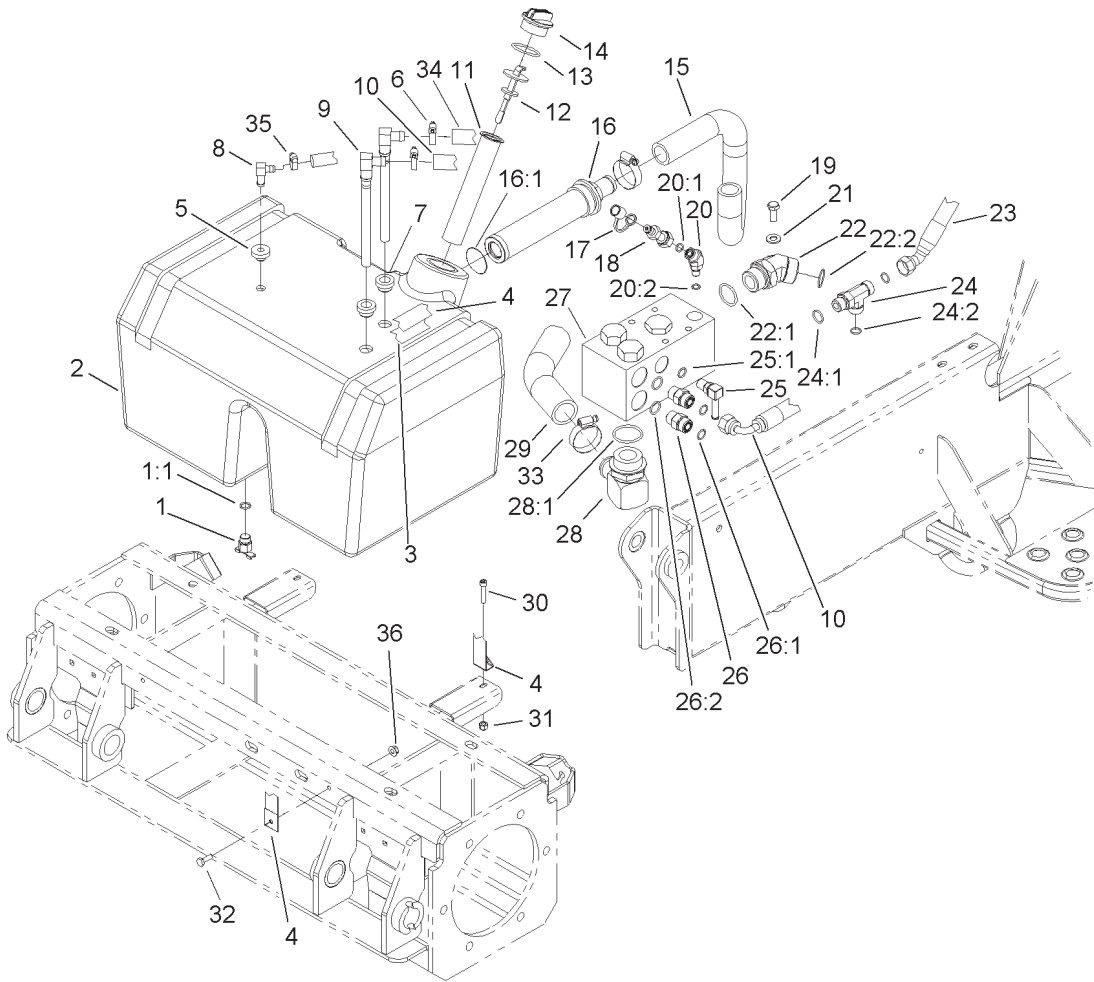


Sheet No.:19

## 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



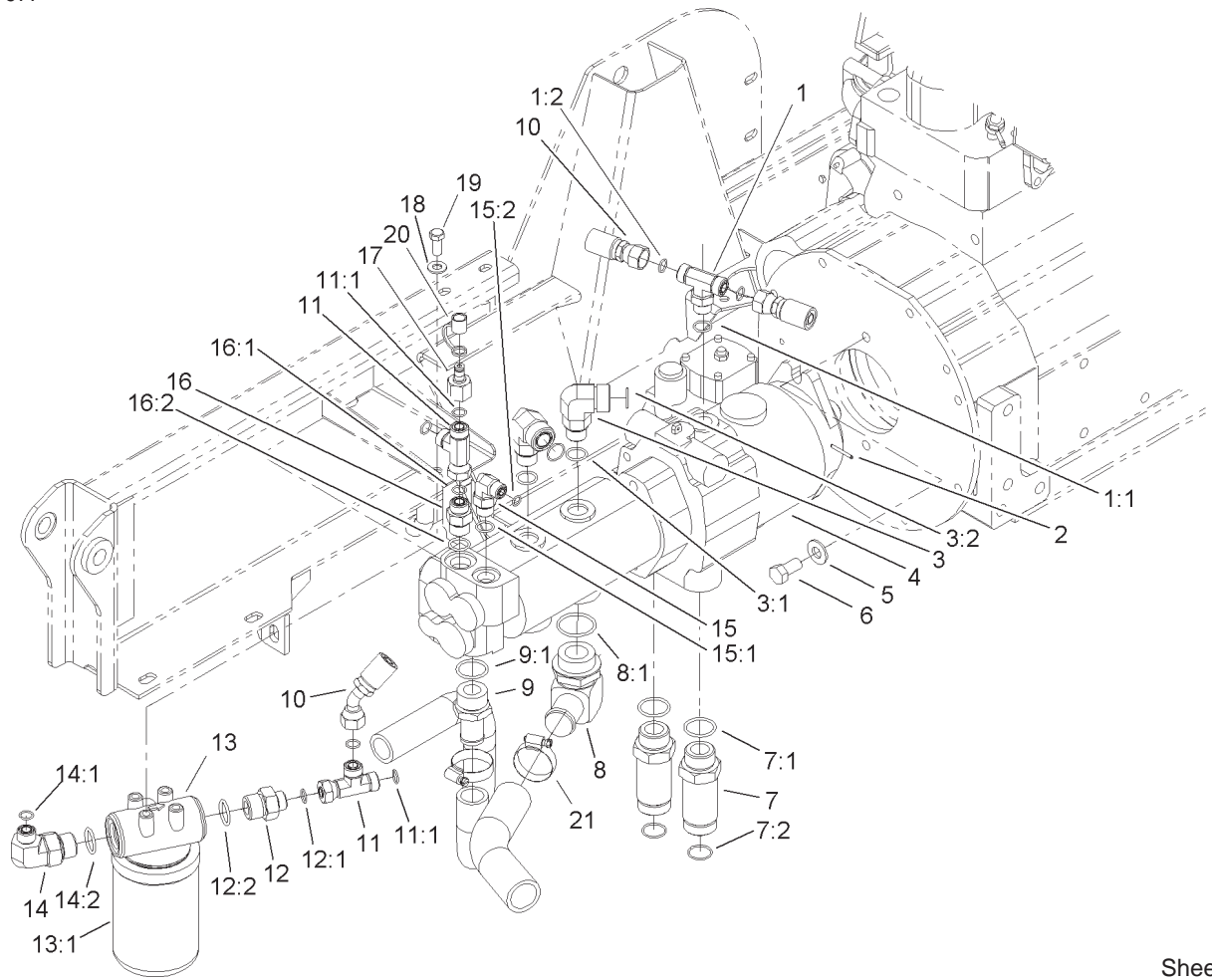
Sheet No.:20

## 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



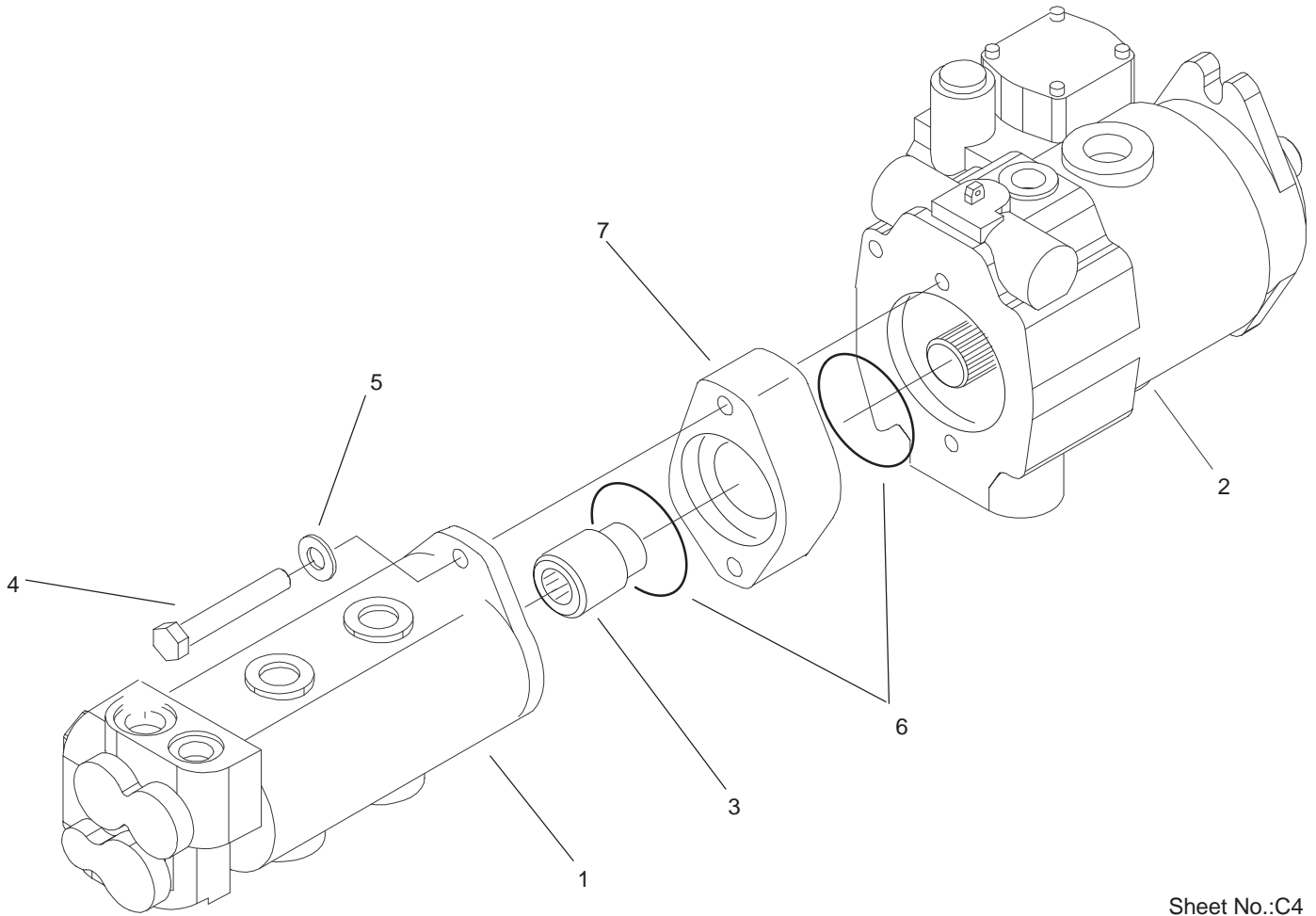


Sheet No.:21

## 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

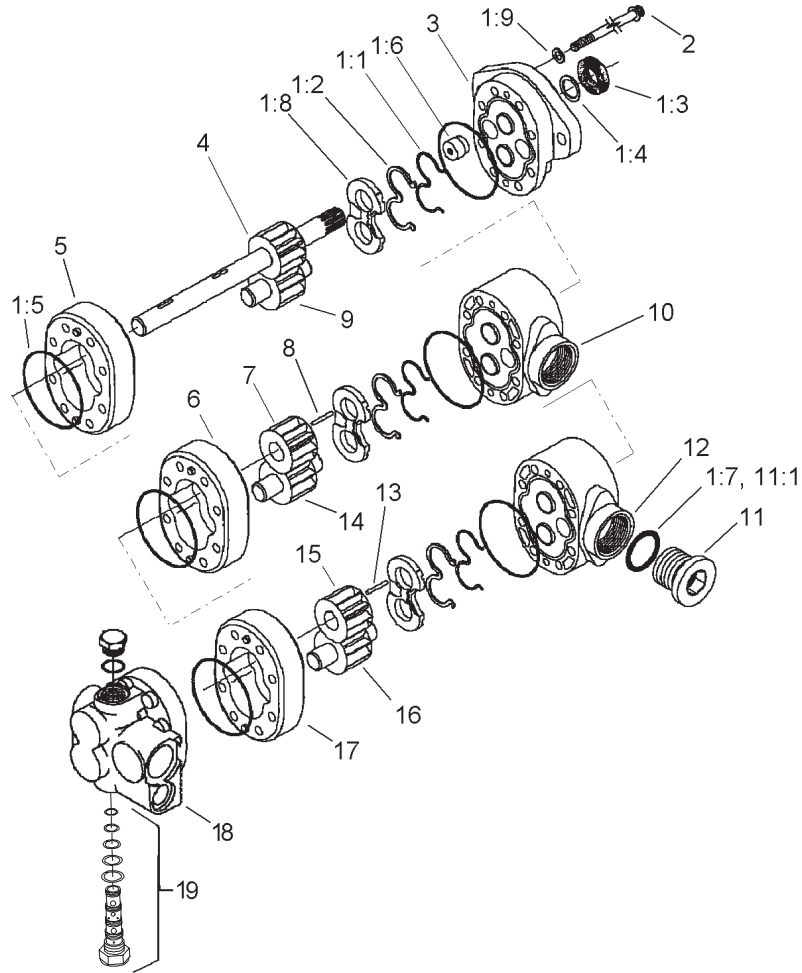


Sheet No.:C4

### 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



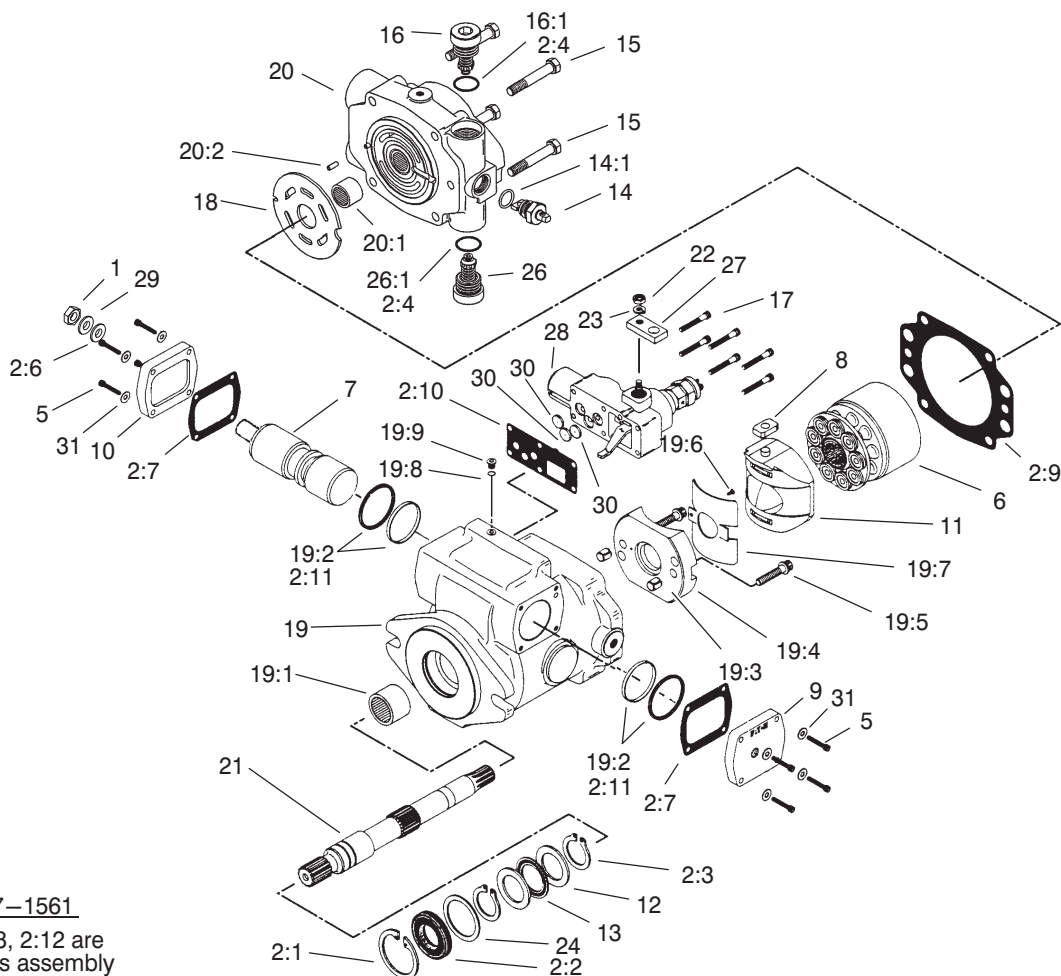
Sheet No.:C5

## 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

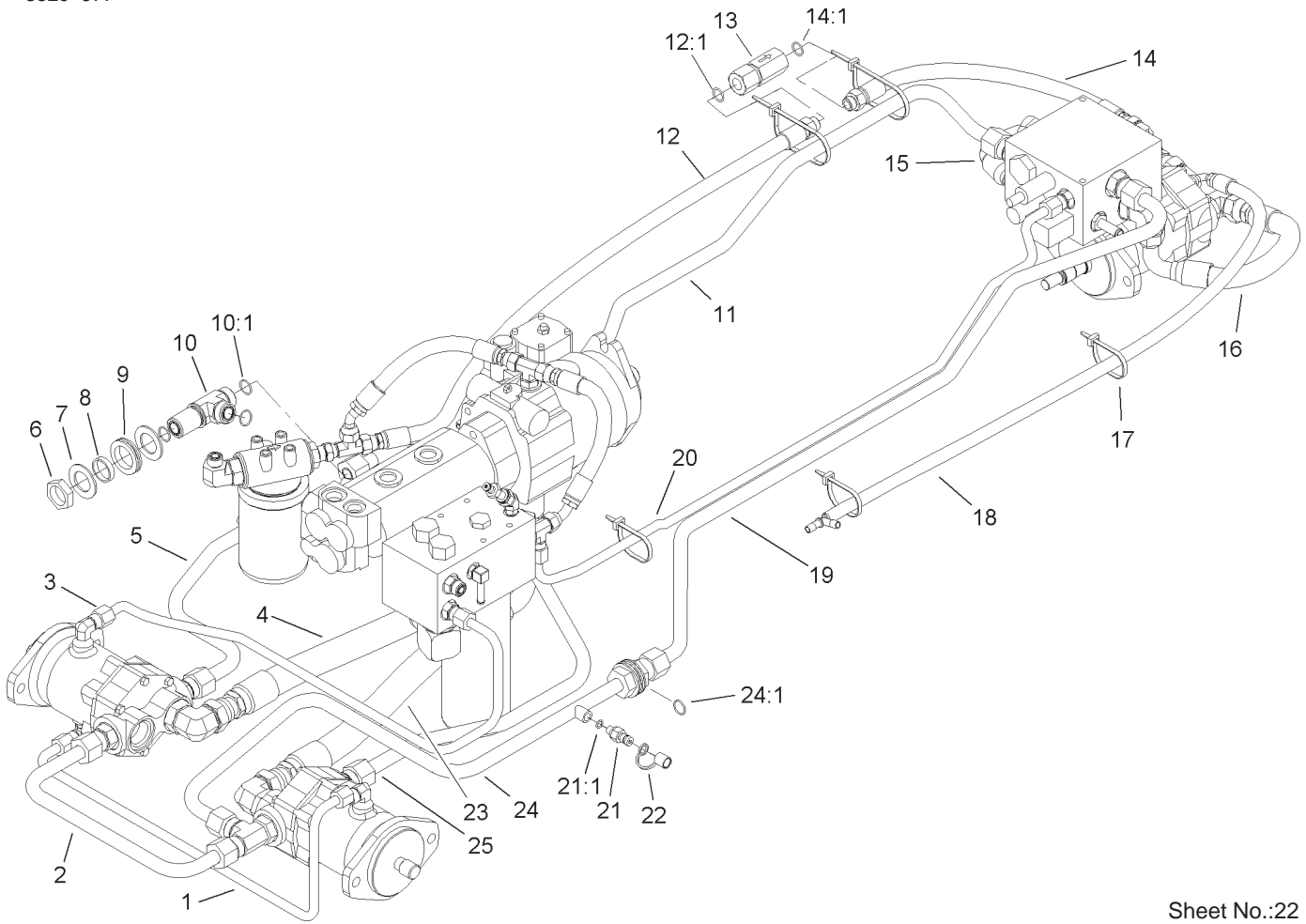
Ref. No.	Part No.	Qty.	Description
1	3220-2	1	Nut
2	107-1561	1	Seal Kit
2:1	60-6260	1	Ring
2:2	105-3331	1	Seal-Shaft
2:3	76-7000	2	Ring-Retaining
☆2:4		2	O-Ring
2:5	93-6314	2	O Ring
2:6	94-3027	1	Washer-Seal
2:7	93-6339	2	Gasket
2:8	93-6376	1	O Ring
2:9	105-2900	1	Gasket-Housing
2:10	105-2901	1	Gasket-Housing, 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





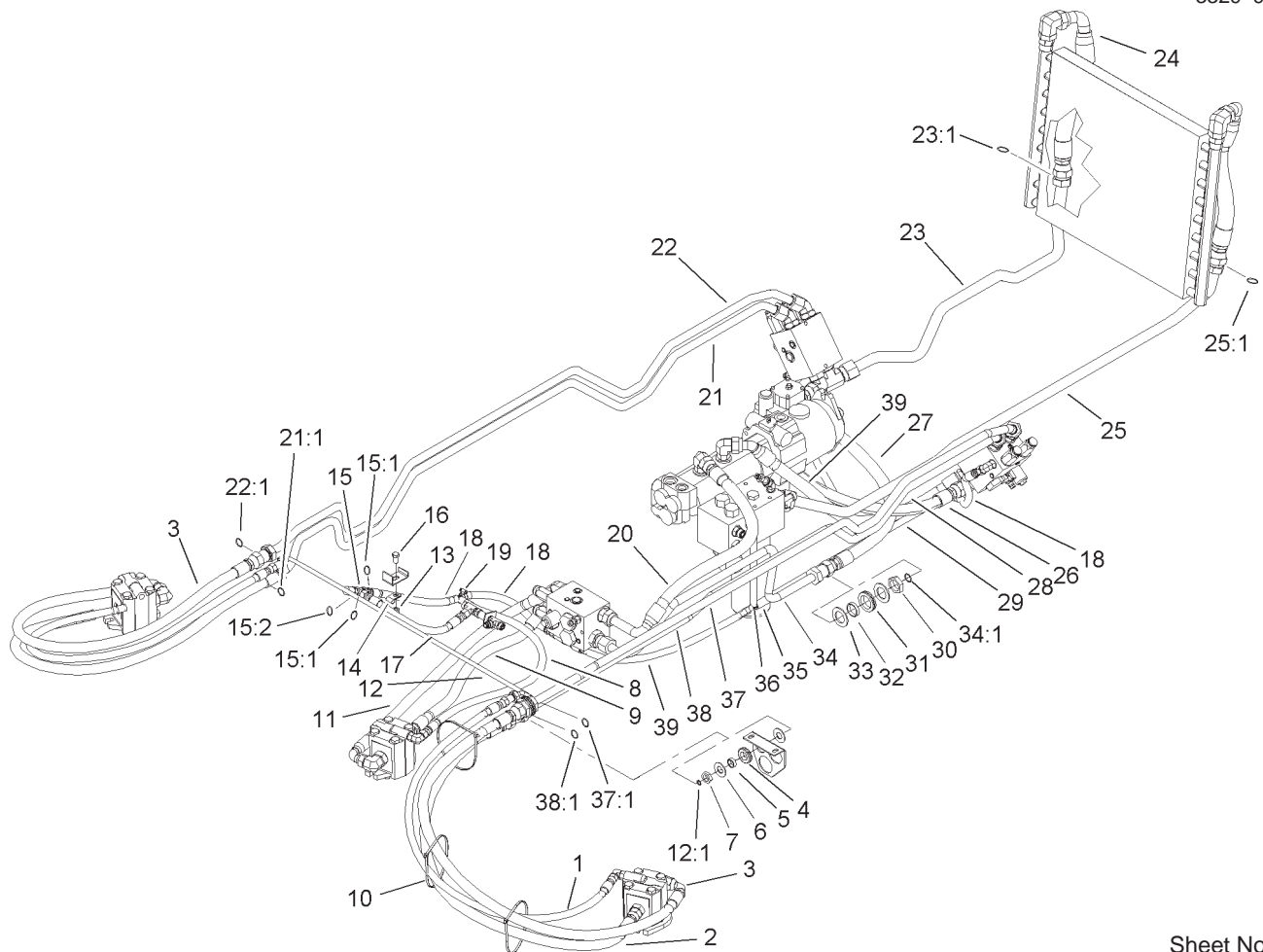


Sheet No.:22

## 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

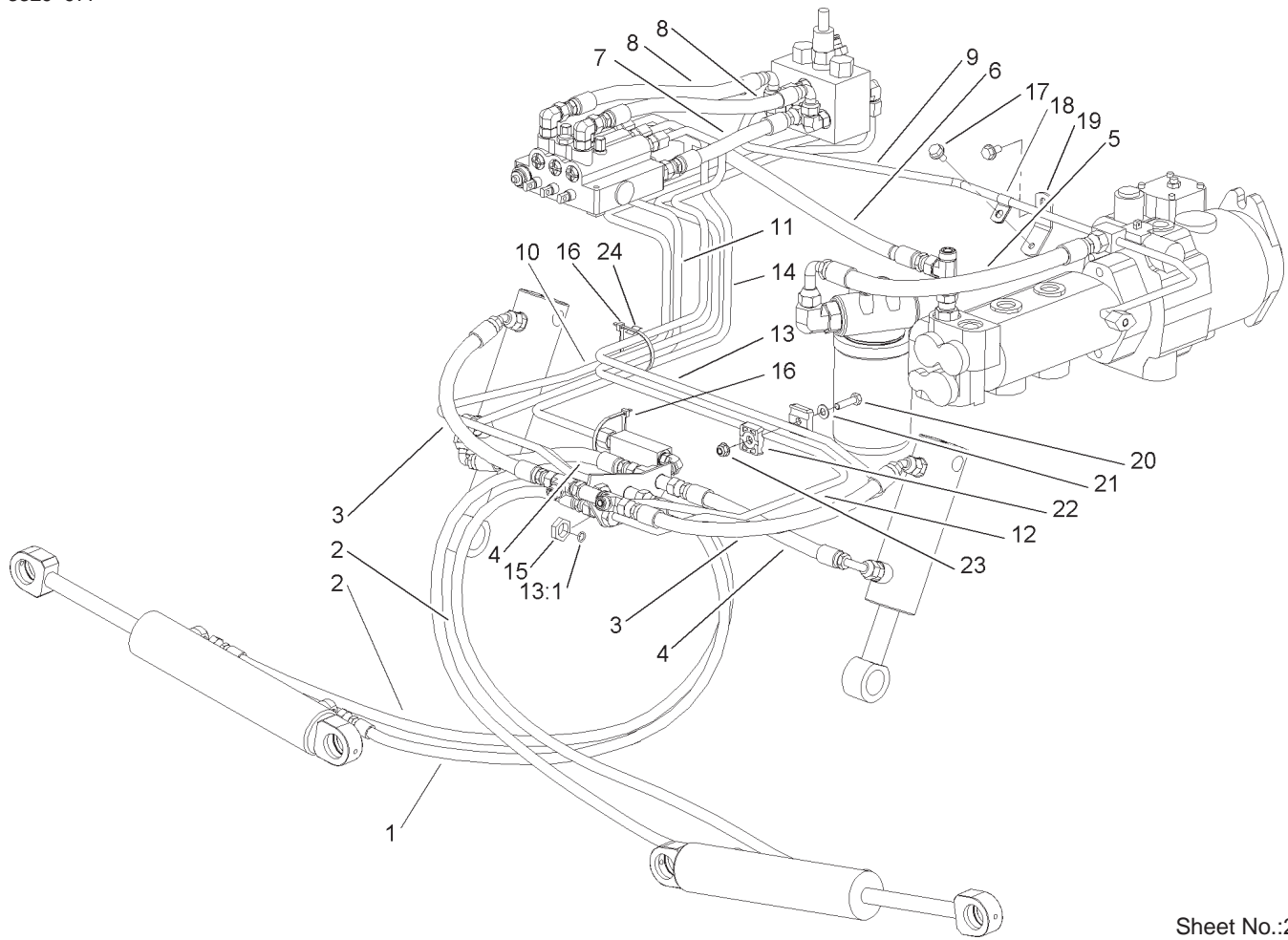


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## Power Take Off Hydraulic Assembly

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



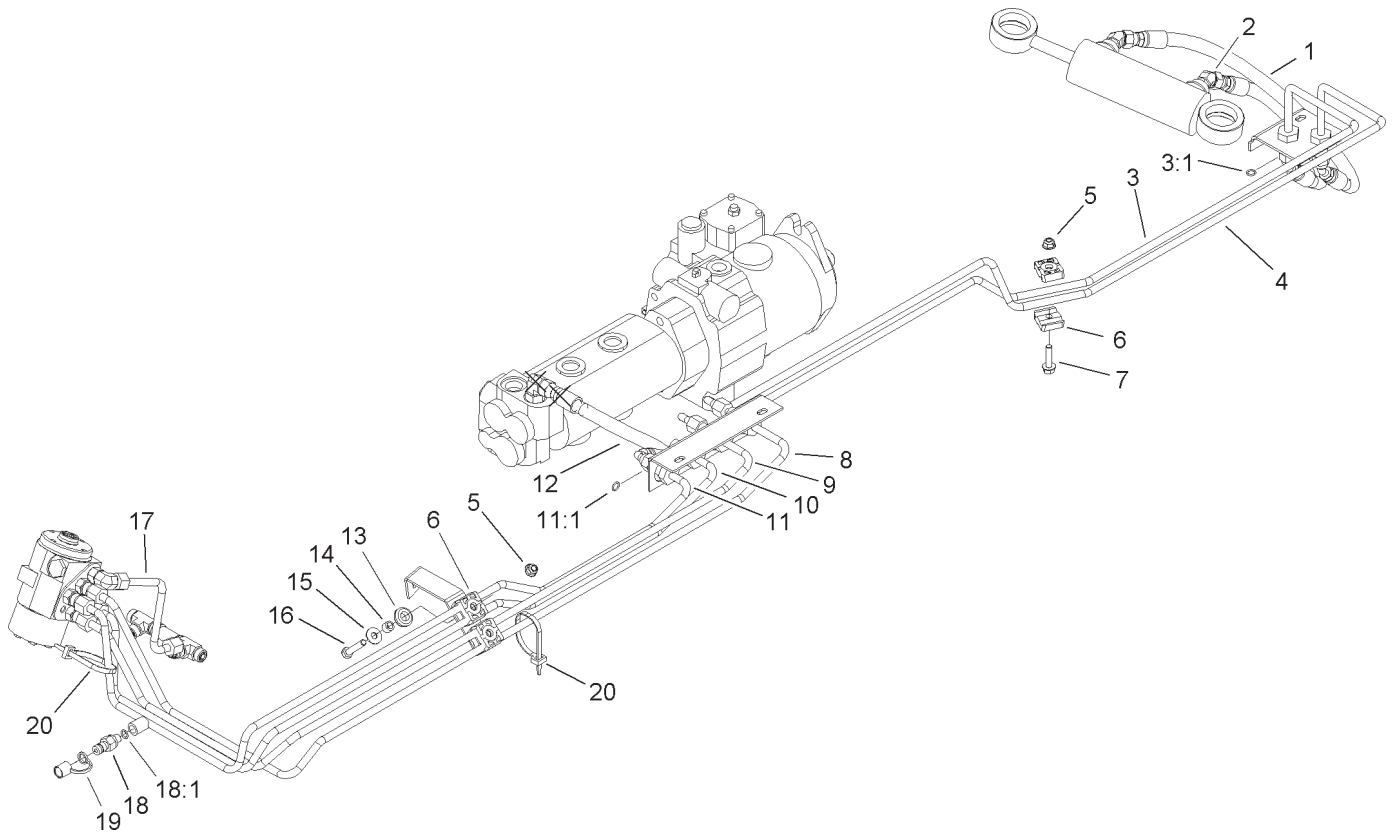
Sheet No.:24

## 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



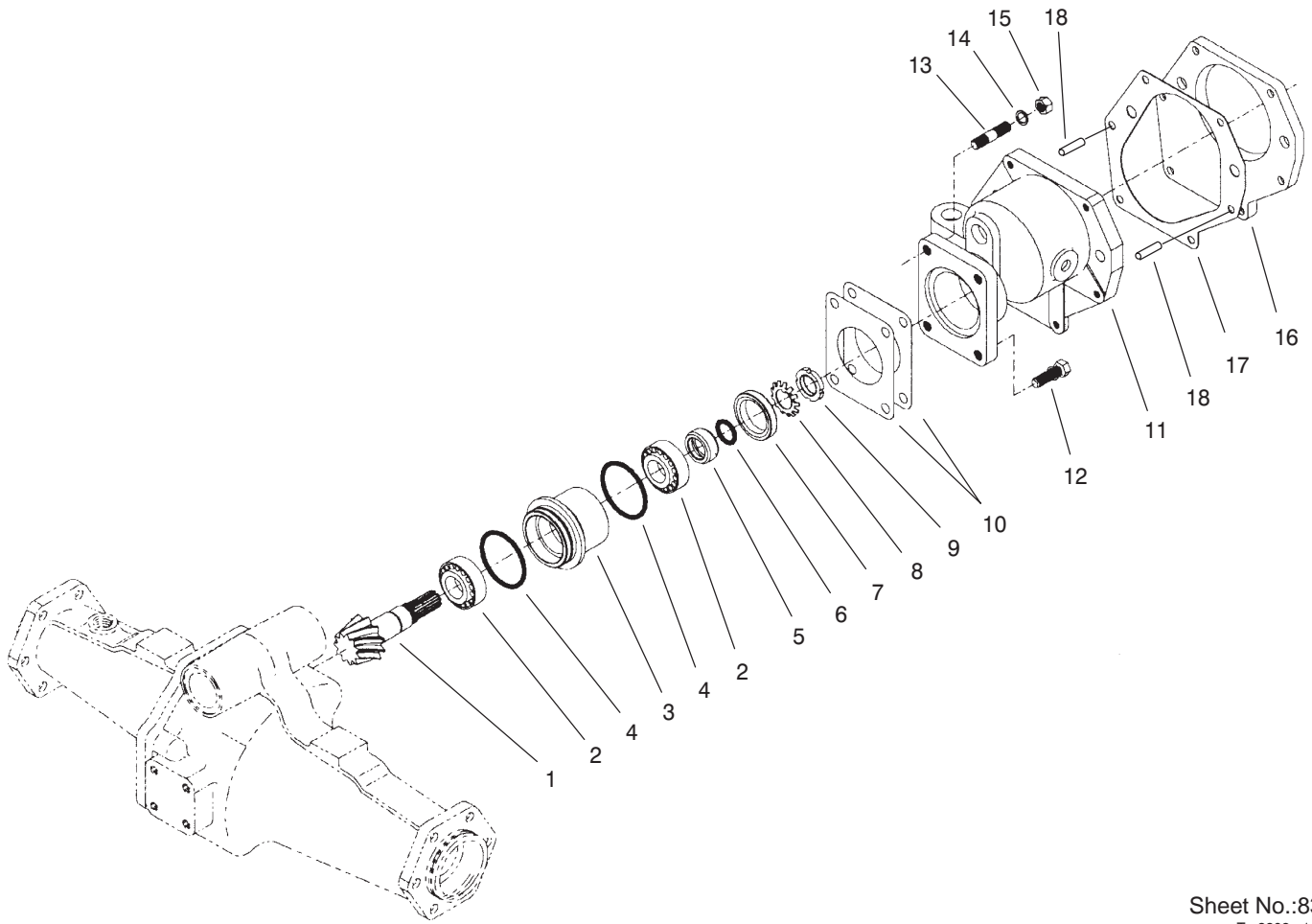
Sheet No.:25

## 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

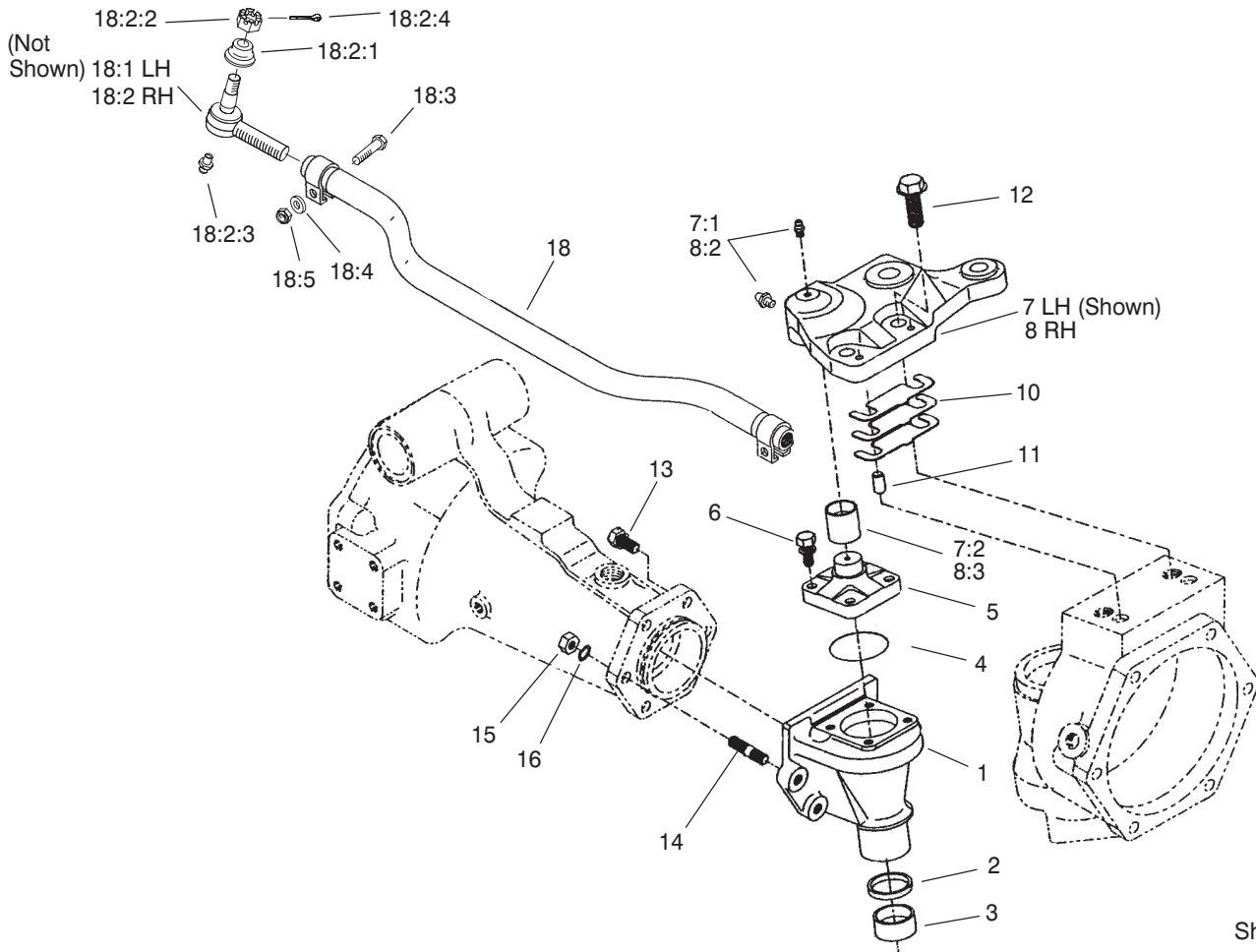
## Bevel Pinion Shaft Assembly Rear Axle Assembly No. 100-3784

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







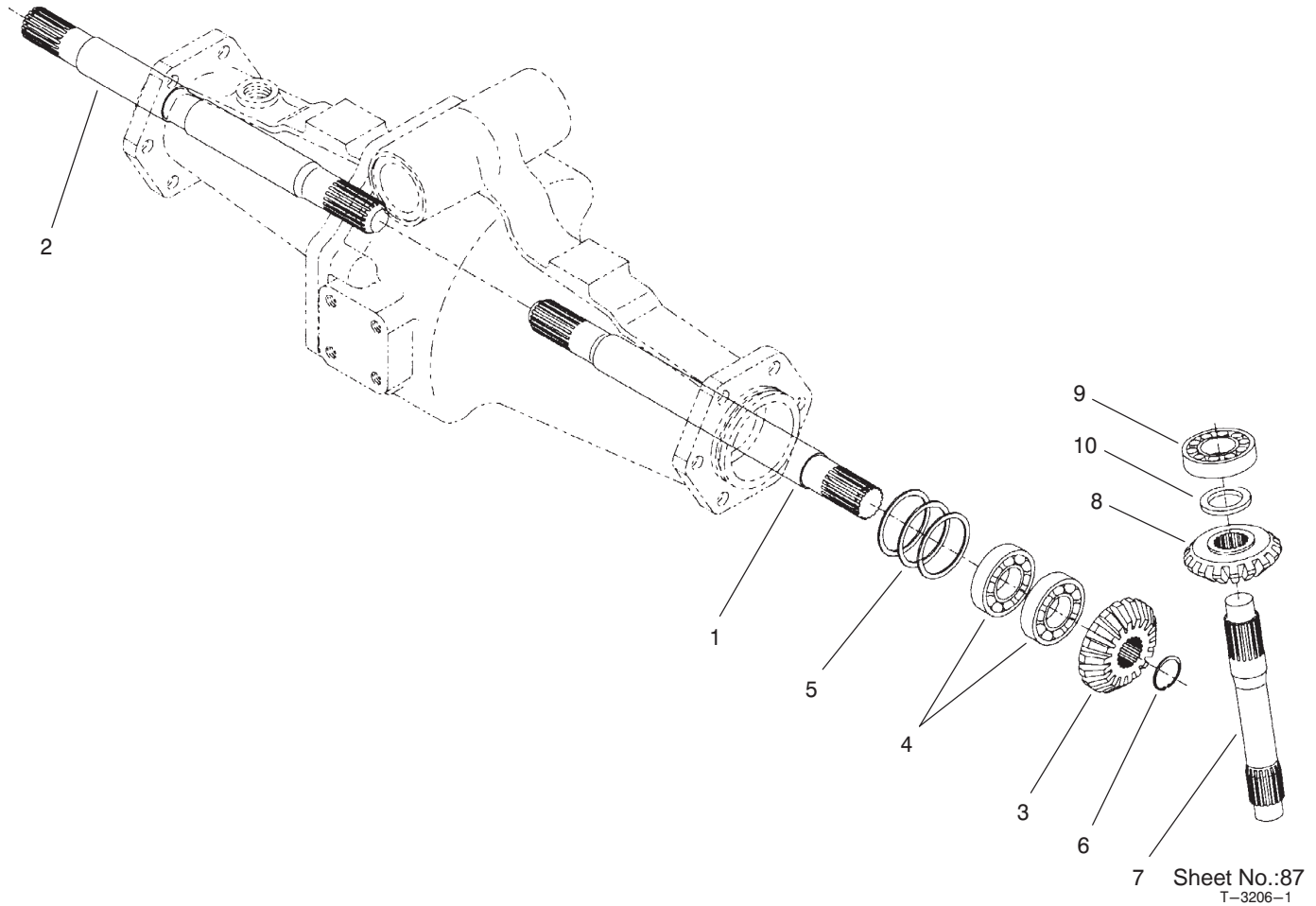
Sheet No.:86  
T-3503

## 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

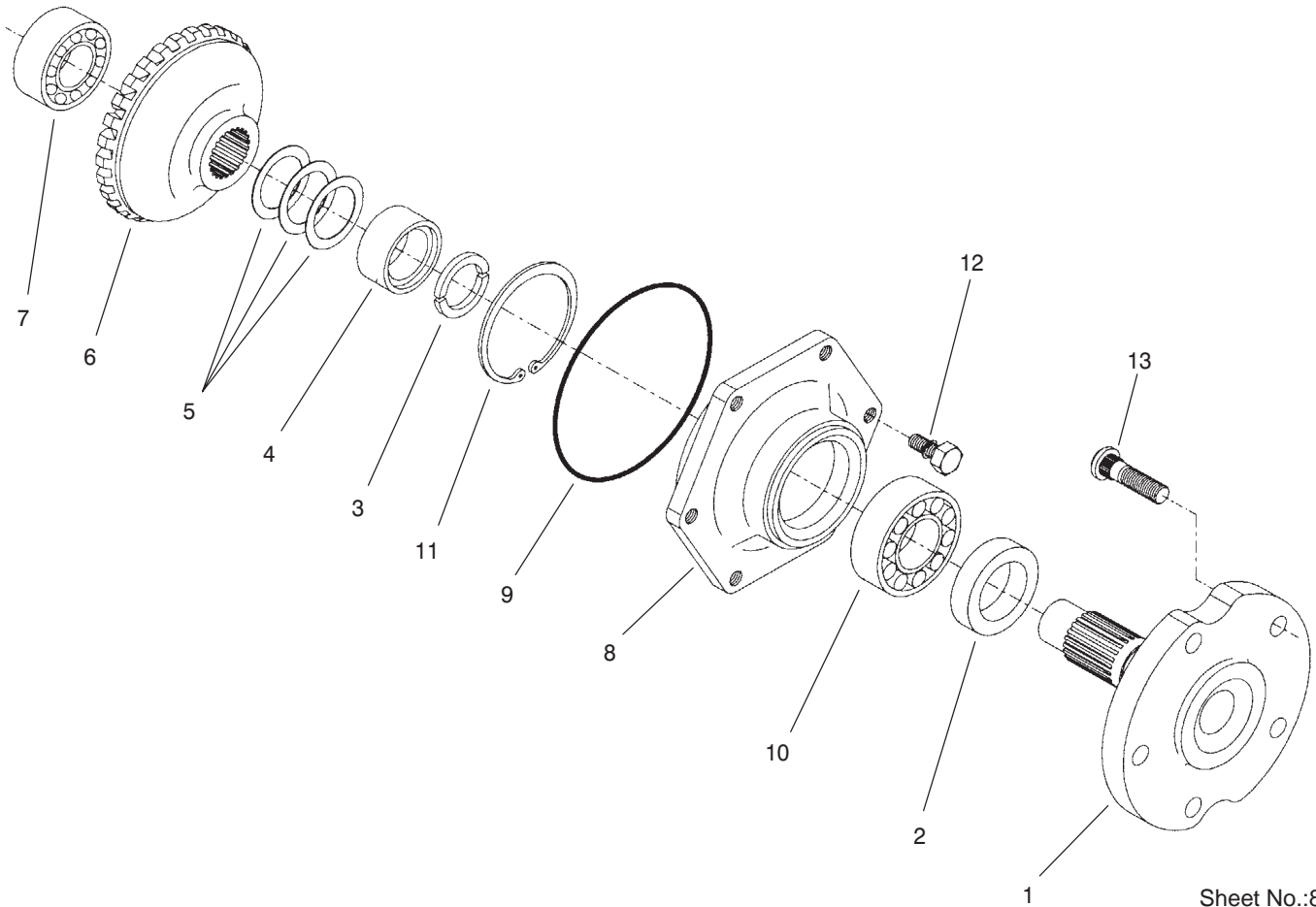


## Bevel Gear Shaft Assembly Rear Axle Assembly No. 100-3784 (Continued)

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



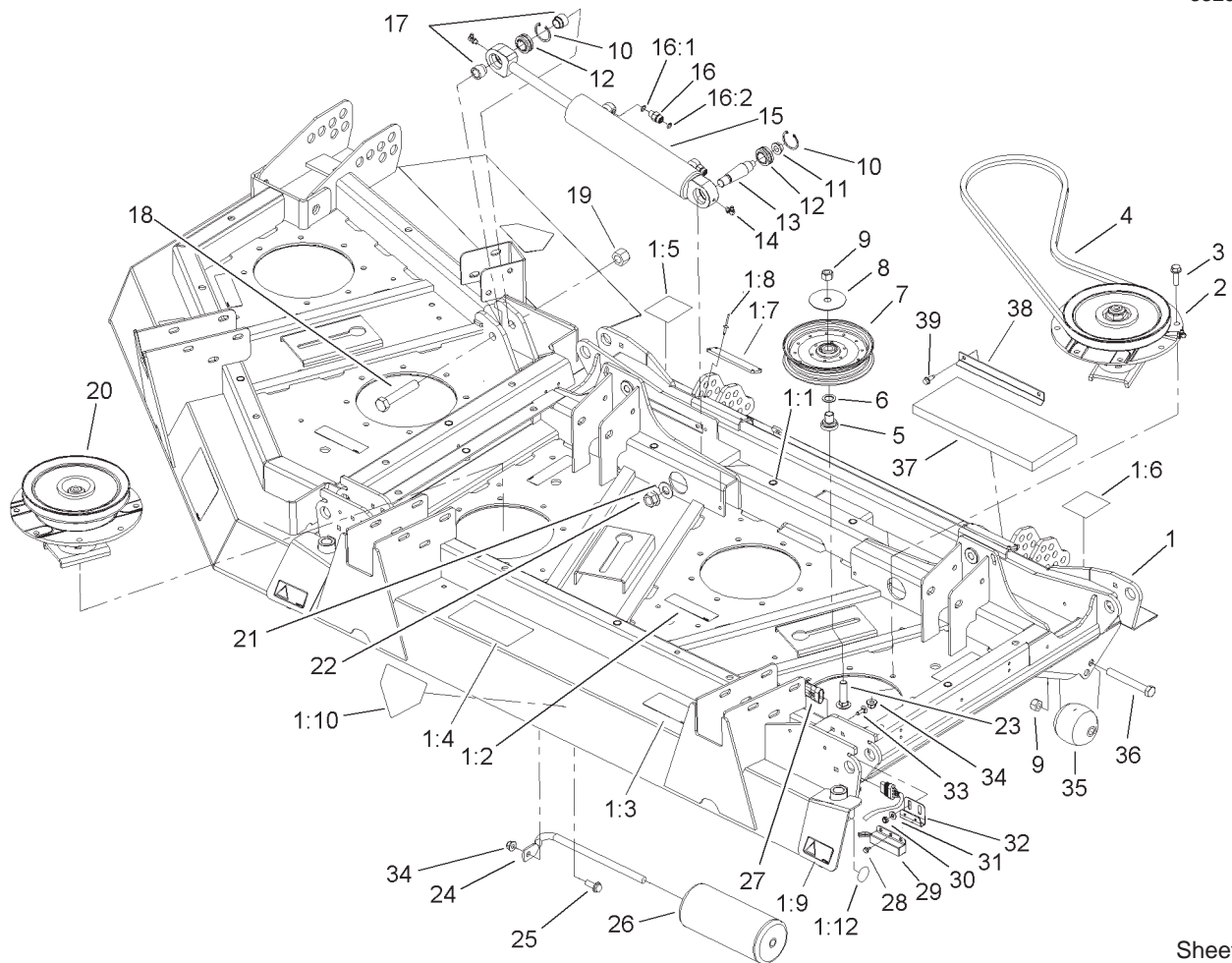


Sheet No.:89  
T-3108-1

## 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



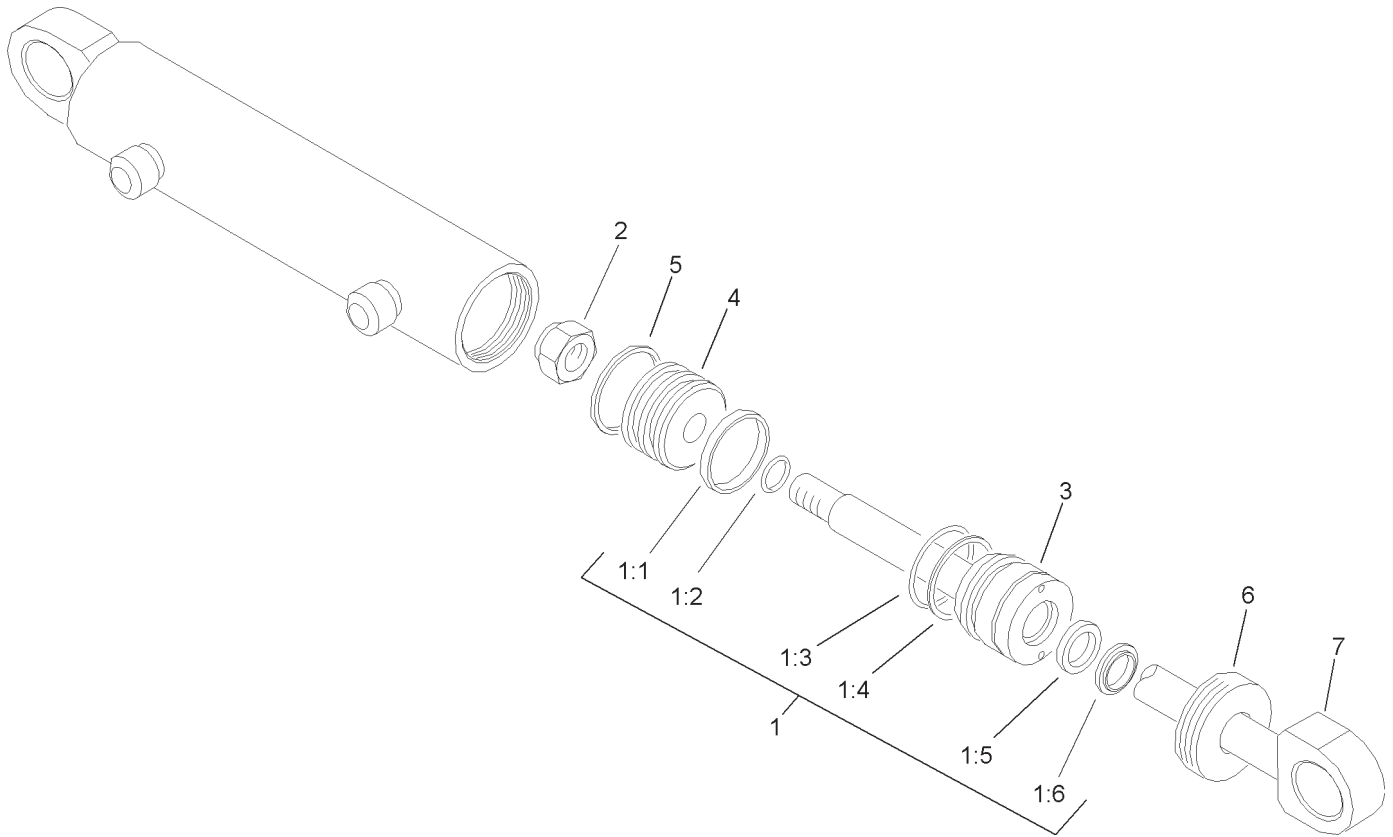
Sheet No.:2

## Center Deck Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	105-7351	1	Center Deck ASM	13	105-7468	2	Stud-Tapered
1:1	32148-9	9	Insert-Nut	14	302-60	4	Fitting-Grease
1:2	100-6578	3	Decal-Danger	15	105-7342	2	Cylinder-HYD, Lift
1:3	93-7818	1	Decal-Torque, Blade Bolt	16	340-92	4	Fitting-HYD, Straight
1:4	100-5622	1	Decal-HOC	16:1	237-78	1	O-Ring
1:5	106-4250	1	Decal-HOC, RH	16:2	237-21	1	O-Ring
1:6	106-4251	1	Decal-HOC, LH	17	105-7443	4	Spacer-Pilot
1:7	105-0786	2	Pad-Plastic	18	327-14	2	Screw-HH
1:8	3269-24	8	Rivet	19	3296-53	2	Nut-Lock, NI
1:9	93-6674	2	Decal-Warning	20	104-3531	1	High Driven Spindle ASM
1:10	43-8480	1	Decal-Danger	21	3256-27	2	Washer-Flat
1:10	106-6753	1	Decal-Danger	22	3296-41	2	Nut-Lock, NI
1:12	58-6520	2	Decal-Grease	23	3233-4	4	Screw-CARR
2	104-3532	3	Low Driven Spindle ASM	24	68-6840	1	Shaft-Roller
3	3234-24	44	Screw-HHF	25	3234-11	1	Screw-HHF
4	105-7438	4	V-Belt	26	68-6710	1	Roller
5	100-2984	4	Spacer-Idler	27	105-7473	1	Harness-Wire, Deck
6	3256-69	4	Washer-Flat	28	104-2065	4	Screw-HWH
7	99-5493	4	Pulley-Idler	29	104-0758	2	Sensor-Ferrous
8	100-3102	4	Washer-Flat	30	3296-56	4	Nut-Lock, NI
9	3296-25	6	Nut-Lock, NI	31	3256-22	4	Washer-Flat
10	32151-34	4	Ring-Retaining	32	106-4264	2	Bracket-Switch
11	32128-42	2	Nut-HF	33	3229-1	4	Screw-CARR
12	105-7441	4	Bearing-Spherical	34	104-8301	45	Nut-Flange, NI
				35	29-4820	2	Roller







Sheet No.:A2

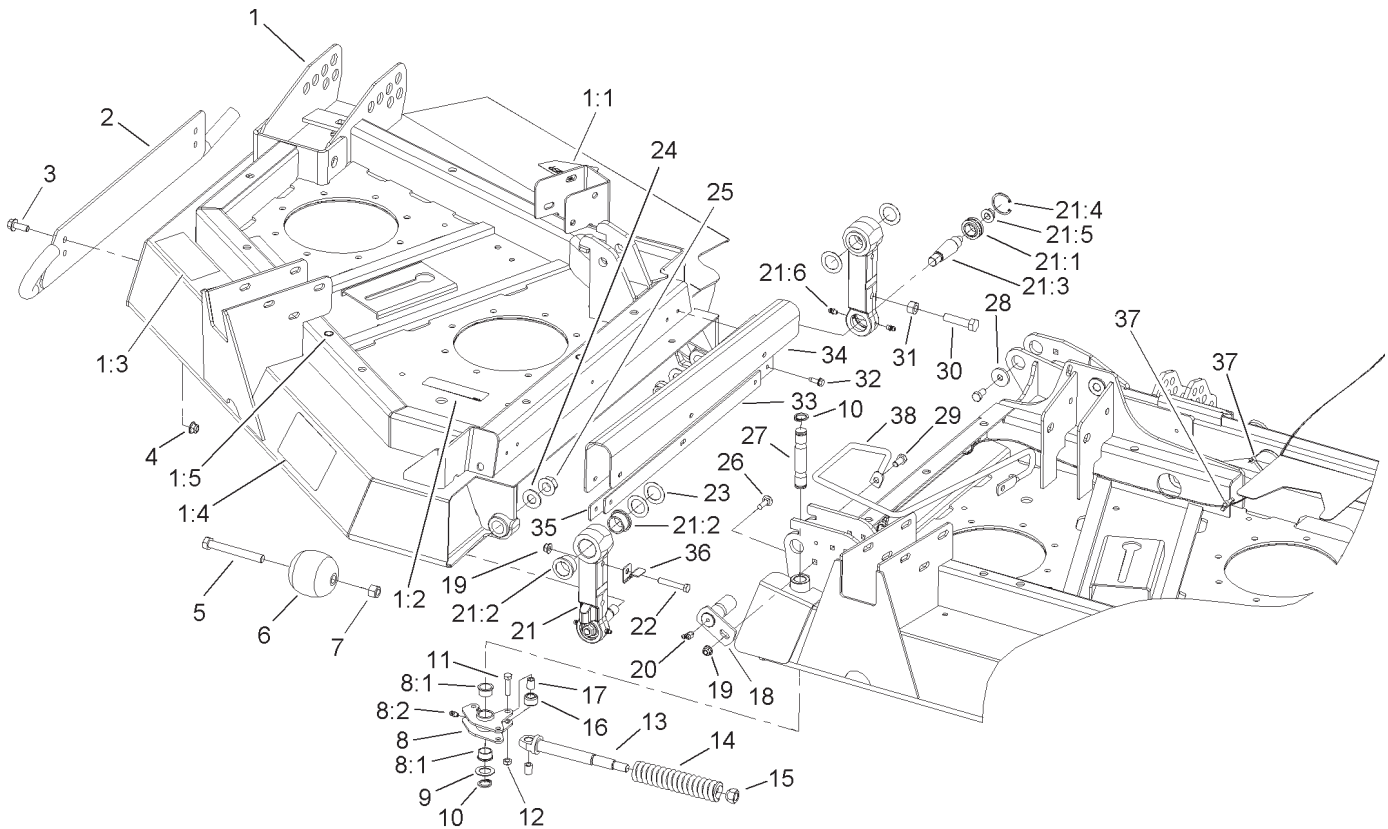
## Hydraulic Lift Cylinder Assembly No. 105-7342

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





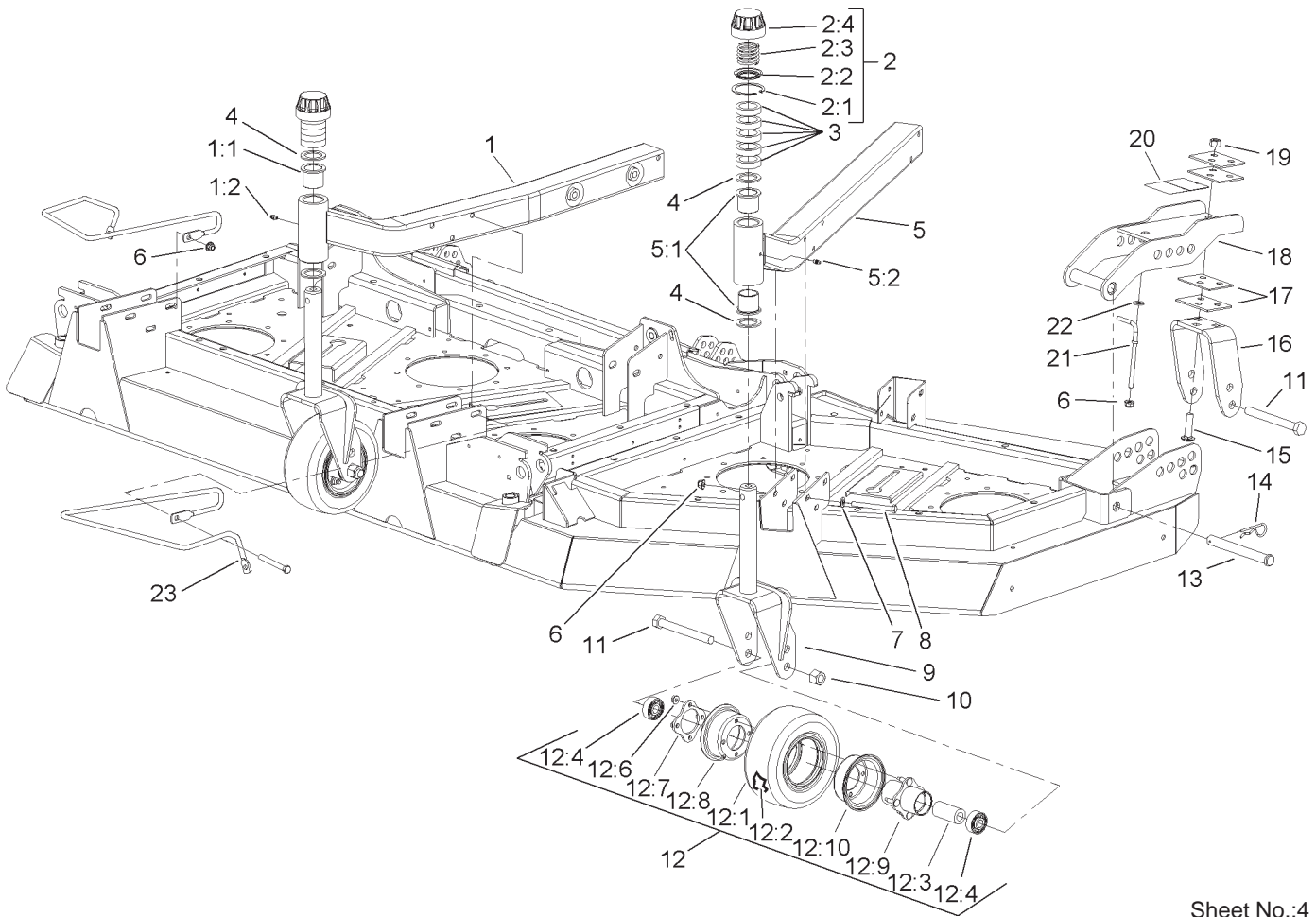
Sheet No.:3

## 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





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

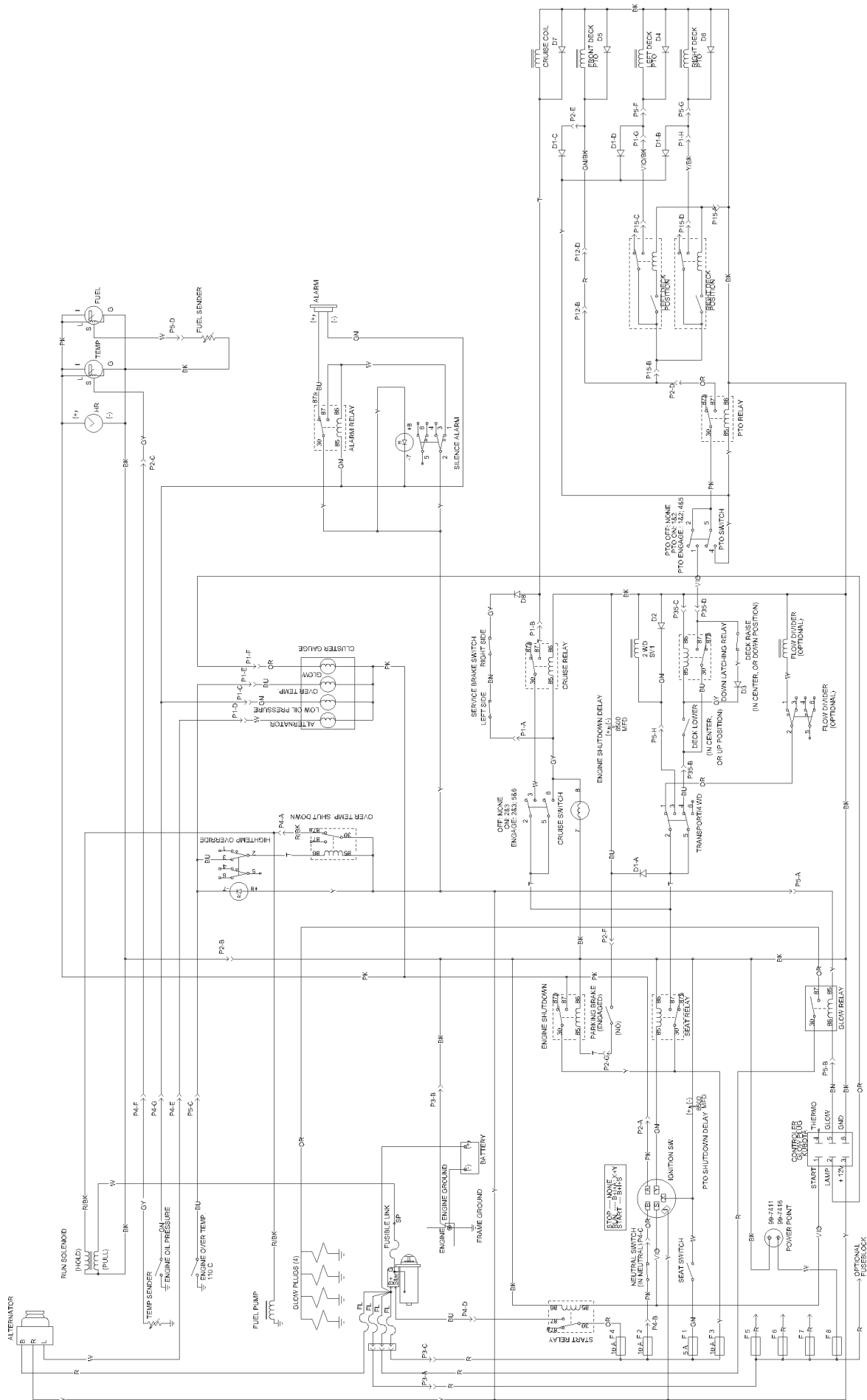
Ref. No.	Part No.	Qty.	Description
12:7	93-4242	1	Plate
12:8	93-4239	1	Rim-Wheel, Half
12:9	93-5980	1	Hub
12:10	95-2741	1	Rim-Wheel, Half
13	100-5569	4	Pin-Clevis
14	3290-343	4	Pin-Hair
15	3233-4	6	Screw-CARR
16	105-7457-01	2	Fork-Rear
17	104-7524	8	Shim
18	104-7529-01	2	Castor Bracket ASM
19	3296-25	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



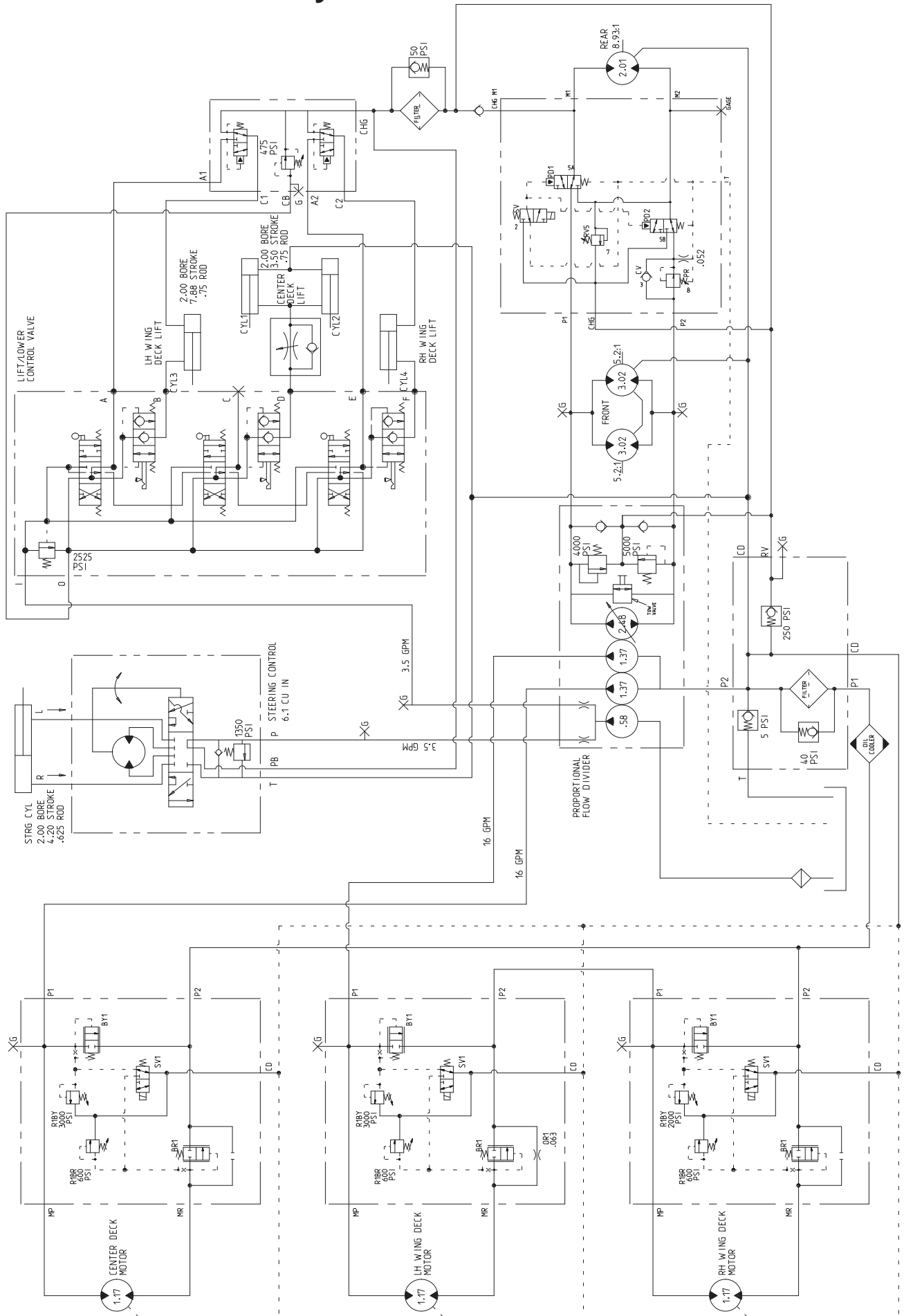




# Electrical Schematic



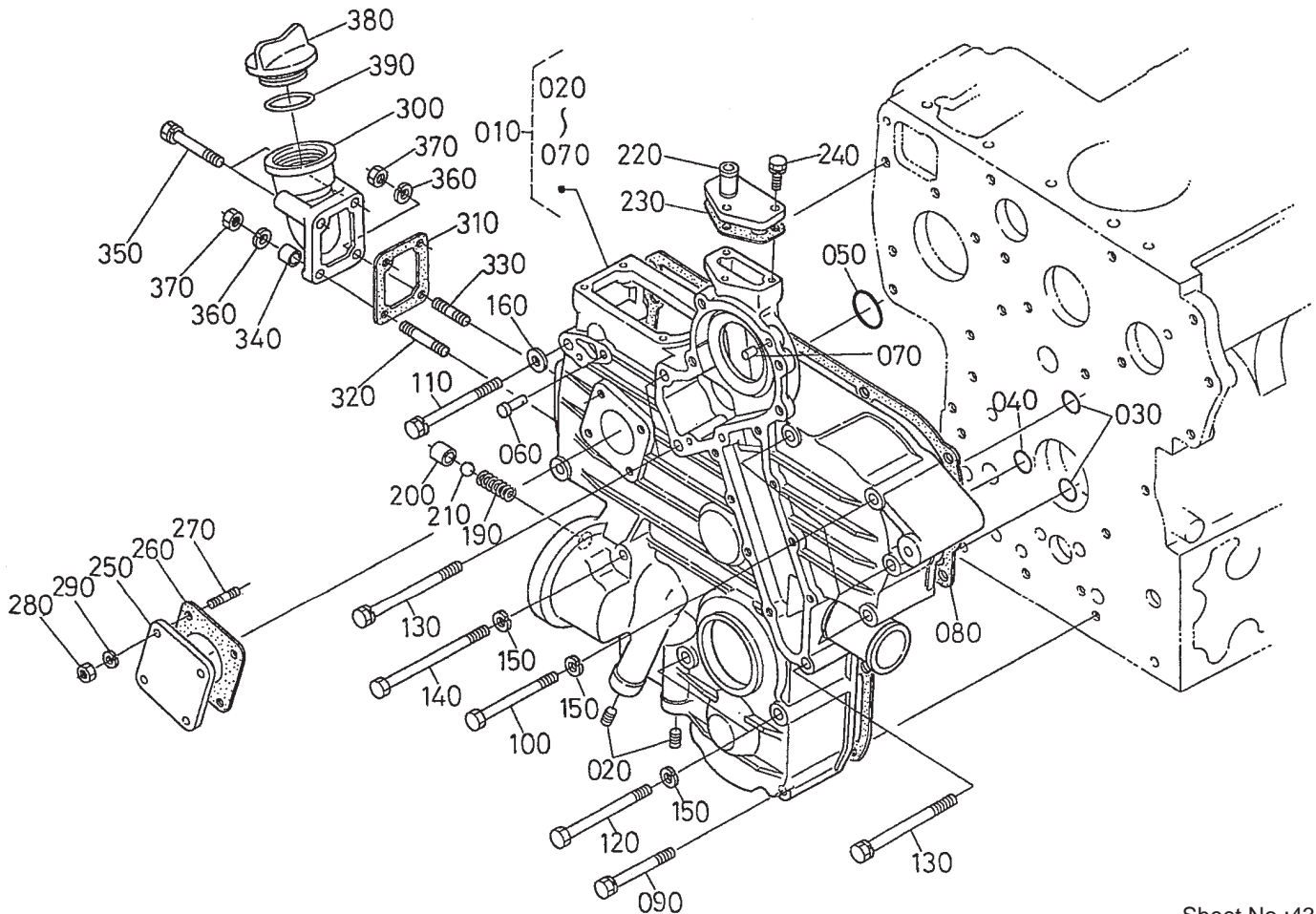
# Hydraulic Schematic











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





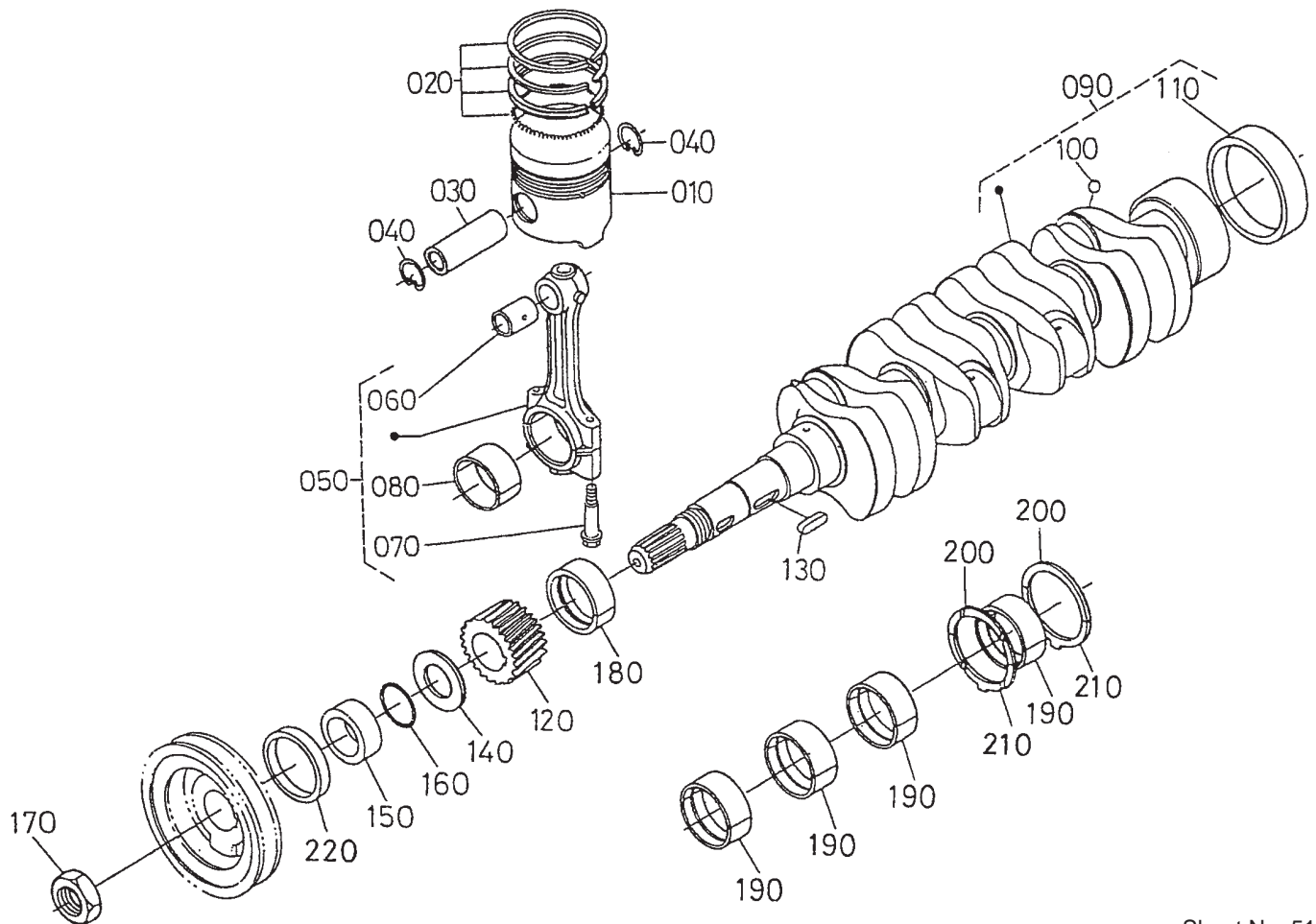












Sheet No.:51

## 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-Crankshaft
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







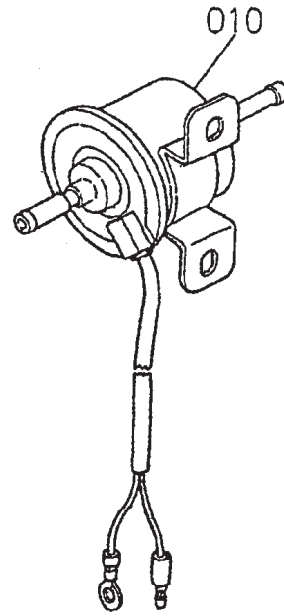
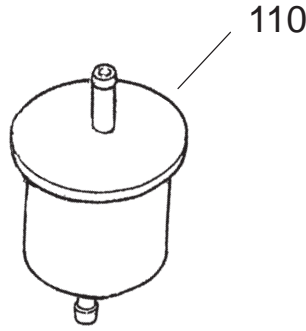
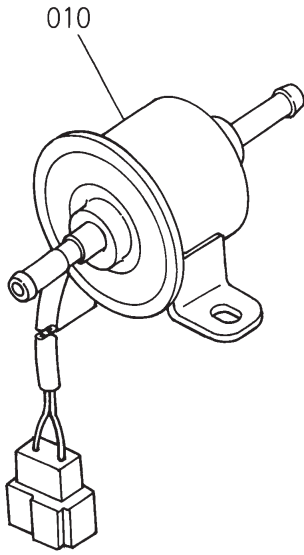












Ref. No.    Part No.    Engine Serial #  
 010        107-0122 (2S0001 or newer)

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

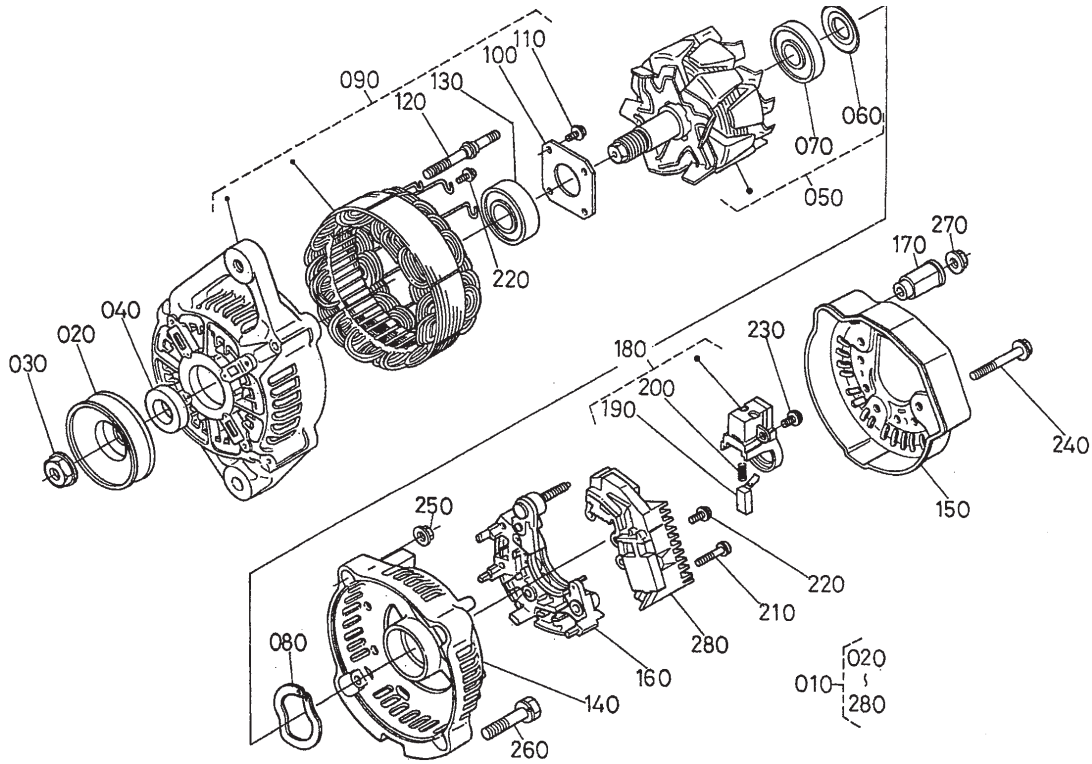
Sheet No.:60

## 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





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)

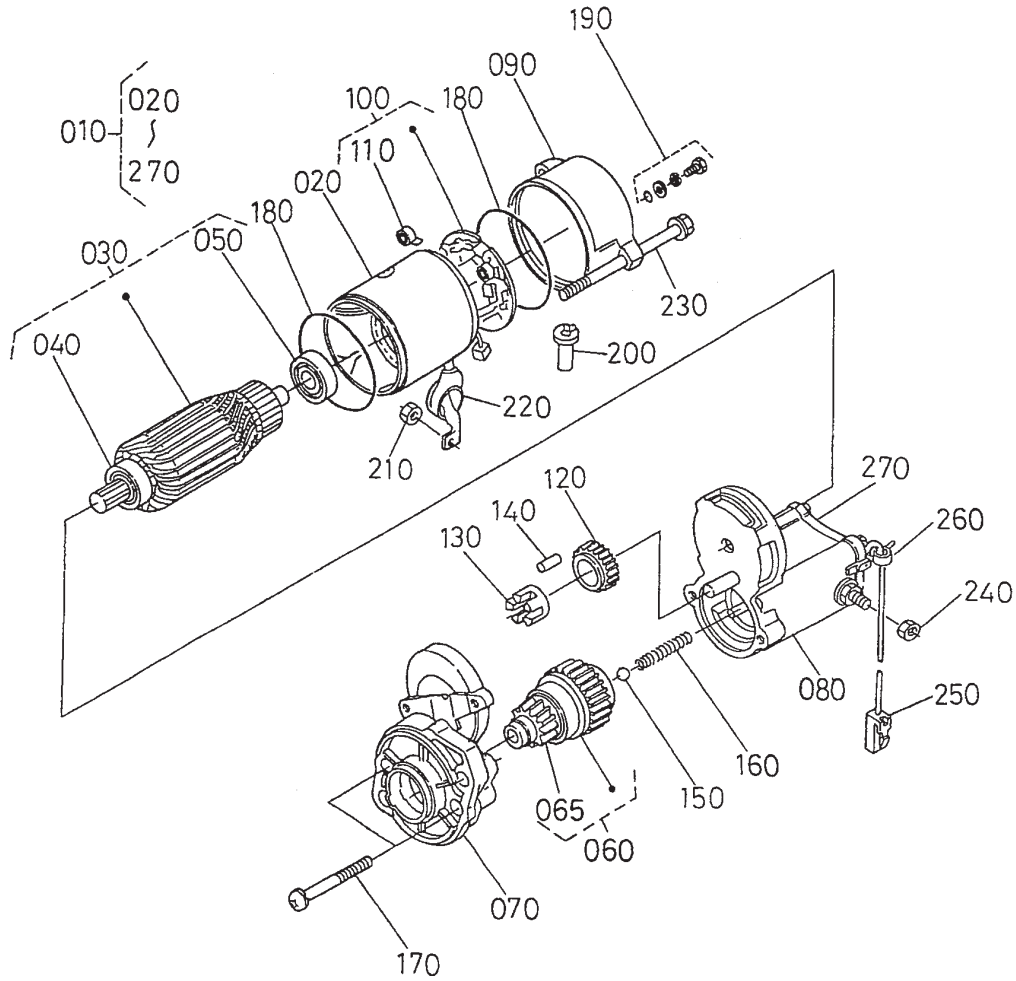
Sheet No.:62

## 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





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## 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	Magnetic 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













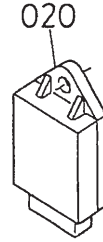
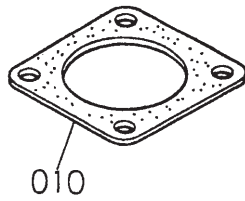










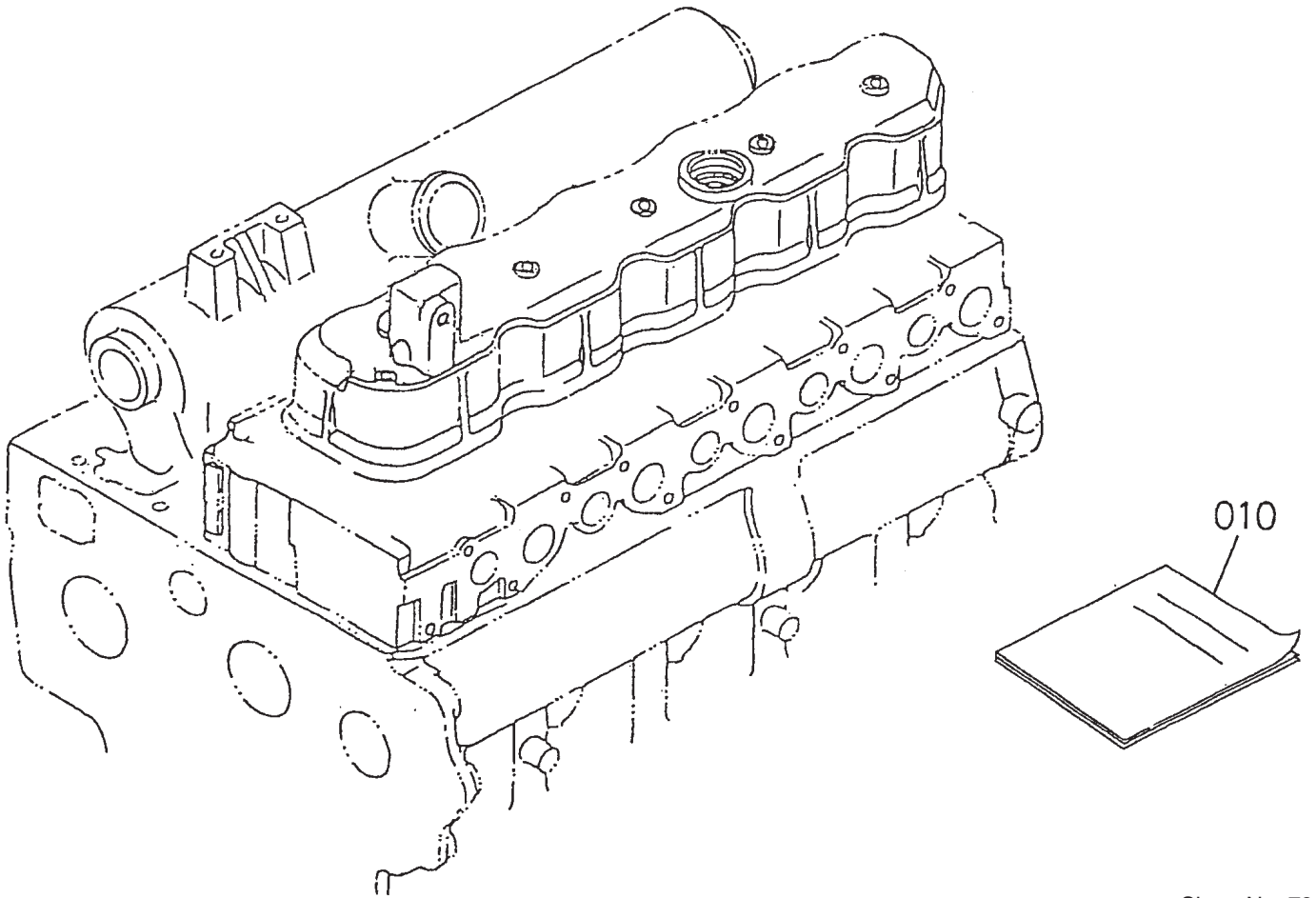


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## Muffler Gasket and Glow Controller

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

Ref. No.	Part No.	Qty.	Description
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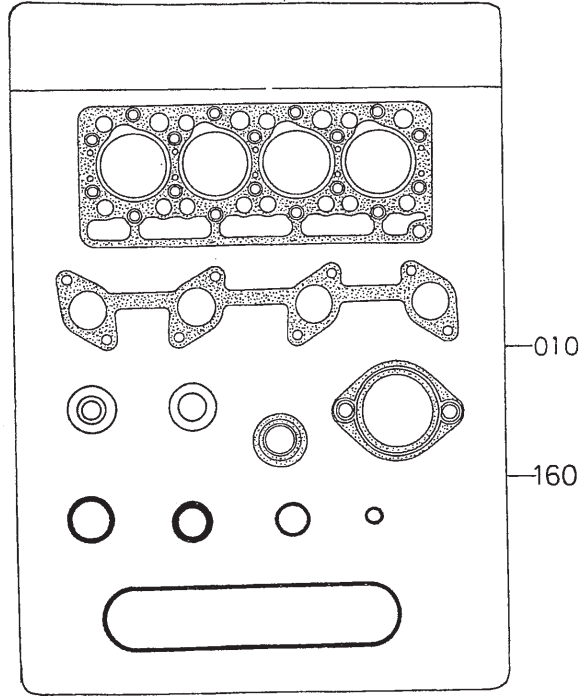


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### Engine Operator's Manual

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
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