Form No. 3328–295

Reelmaster® 2000–D

Traction Unit

Model No. 03428—220000001 and Up

Parts Catalog

Ordering Replacement Parts

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

Understanding Reference Numbers

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

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

Service Assembly Reference Numbers

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

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

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

Reference Numbers Indicating Quantity

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

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

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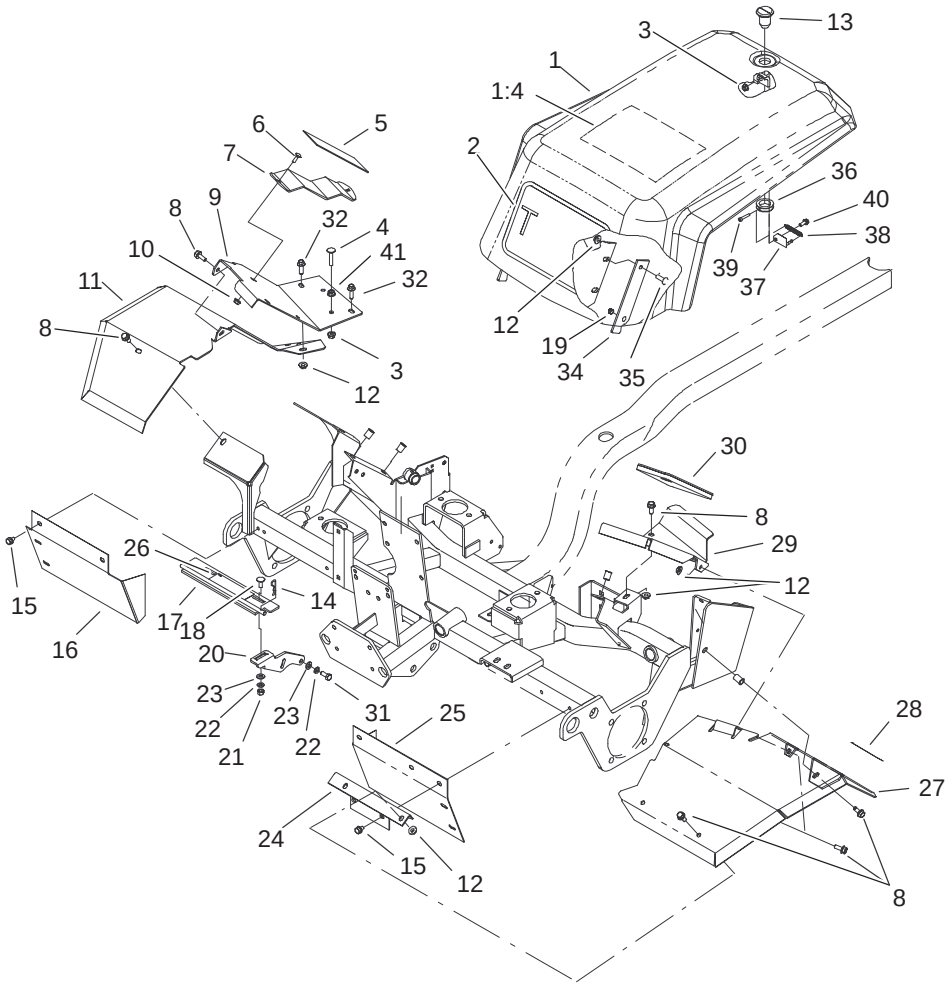
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Part Description Abbreviations

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

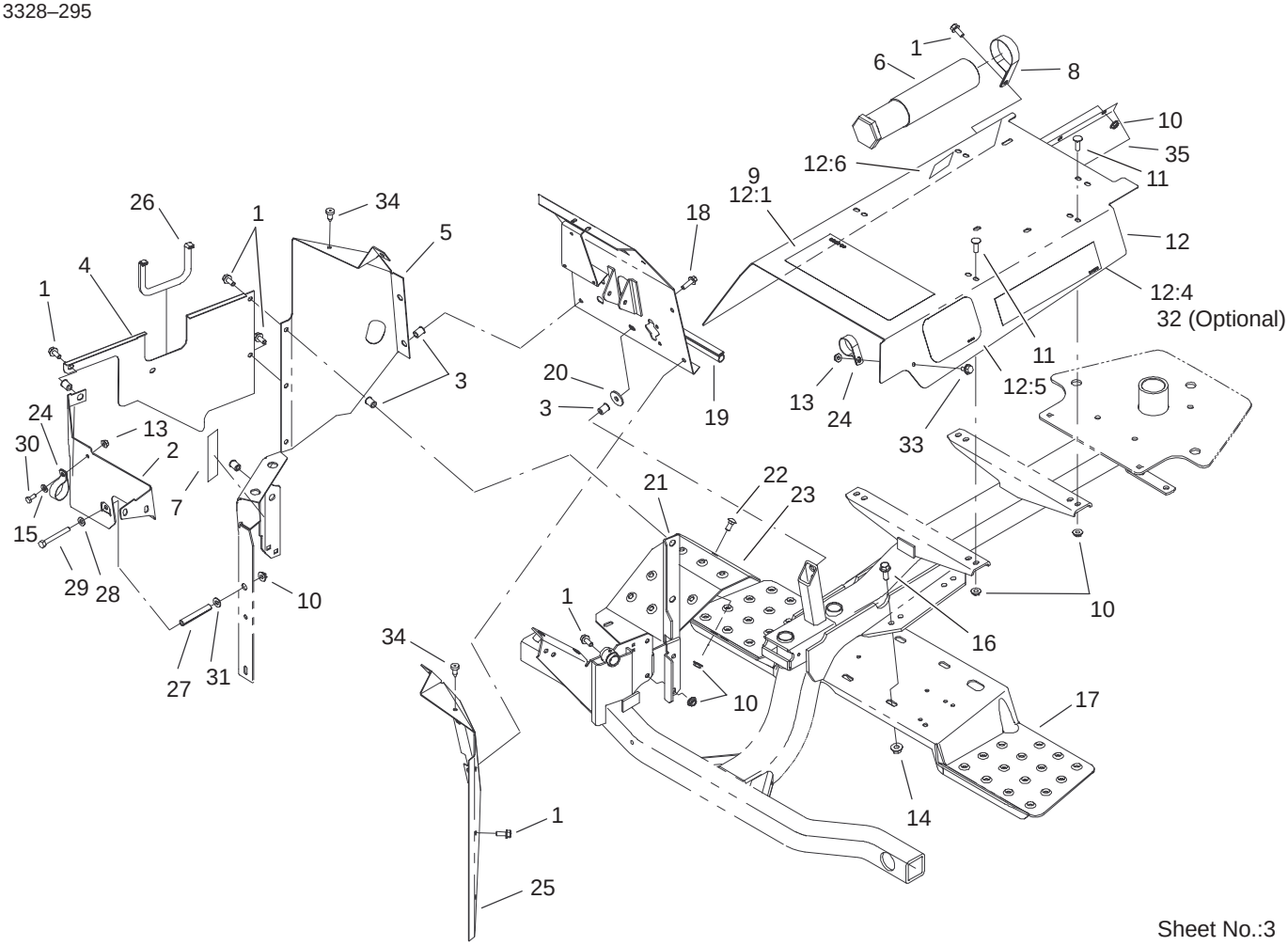


Sheet No.:2

Hood Assembly

Ref. No.	Part No.	Qty.	Description
1	104–3987	1	Hood ASM
1:4	104–3990	1	Decal
2	66–1210	1	Decal–Logo, Toro
3	32128–20	2	Nut–HF
4	3230–27	1	Screw–CARR
5	76–2260	1	Pad–Footrest
6	3229–1	2	Screw–CARR
7	76–2200–03	1	Footrest–Pedal, Tract
8	3234–5	10	Screw
9	93–6779–03	1	Footrest–RH
10	32128–33	3	Nut–HF
11	93–6778–01	1	Fender–RH
12	32128–44	16	Nut
13	104–4074	1	Stud–Latch
14	3290–467	1	Pin–Hair
15	32104–82	5	Screw–HHF
16	104–4062–01	1	Shield–Front, RH
17	93–6780–03	1	Hinge
18	3230–2	2	Screw–CARR
19	256–320	2	Bushing–Nylon
20	93–6742–03	2	Bracket–Hood, Pivot
21	3217–6	2	Nut–Hex
22	3253–4	6	Washer–Lock
23	3256–23	6	Washer–Flat
24	83–8510–01	1	Bracket–Fender, Left

Ref. No.	Part No.	Qty.	Description
25	83–9800–01	1	Grass Shield–Front, LH
26	94–5056	1	Decal–Instructions
27	93–6776–01	1	Fender–LH
28	93–7267	1	Decal–Brake
29	83–9710–03	1	Footrest–Pedal, Tract
30	83–9840	1	Pad–Foot
31	322–3	4	Screw–HH
32	3234–17	4	Screw–HHF
34	104–3968–03	2	Bracket–Hood
35	3234–17	4	Screw–HHF
36	104–4078	1	Collar–Latch
37	104–4079	1	Bracket–Spring
38	104–4080	1	Spring–Extension
39	32105–12	1	Screw
40	3234–33	1	Screw–HHF
41	3218–2	1	Nut–Jam

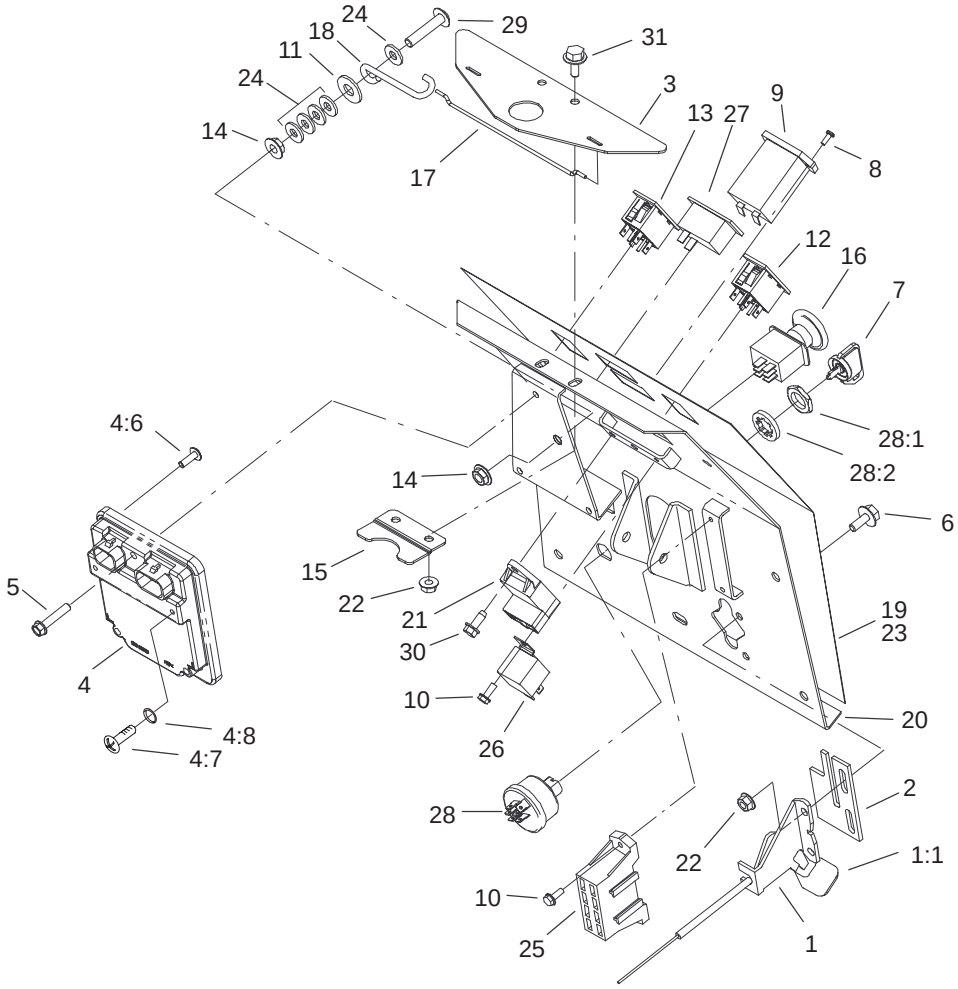


Sheet No.:3

Skirt and Body Panel Assembly

Ref. No.	Part No.	Qty.	Description
1	3234–5	16	Screw
2	104–3865–03	1	Panel–Front, RH
3	32148–7	8	Insert–Nut
4	104–4063–03	1	Front Panel ASM
5	104–3932–03	1	Panel–Rear, Right
6	74–0720	1	Tube–Manual
7	93–7273	1	Decal–Danger
8	2412–133	2	R–Clamp
9	93–7271	1	Decal–Warning
10	32128–44	13	Nut
11	3230–2	4	Screw–CARR
12	104–3916	1	Skirt ASM
12:1	83–9550	1	Decal–Warning
12:4	104–3988	2	Decal
12:5	104–3989	2	Decal–Logo, Toro
12:6	105–4674	1	Decal–Noise, Ce
13	32128–33	2	Nut–HF
14	32128–43	4	Nut–Flange
15	3256–22	1	Washer–Flat
16	3234–11	4	Screw–HHF
17	93–6868–03	1	Step–Foot
18	3234–17	1	Screw–HHF
19	76–6471	1	Strip–Seal, Firewall
20	62–7170	1	Spacer–Rubber
21	104–4009–03	1	Angle–Right
22	3230–1	1	Screw–CARR

Ref. No.	Part No.	Qty.	Description
23	93–6938–03	1	Shield–Footrest
24	2412–74	2	R–Clamp
25	93–6732–03	1	Panel–Rear, Left
26	104–4060	1	Trim
27	93–6908	1	Spacer–Split
28	3256–23	1	Washer–Flat
29	322–23	1	Screw–HH
30	321–3	1	Screw–HH
31	87–8640	1	Washer–Flat
32	104–4014	1	Decal–Sport, Reelmaster
33	3234–21	1	Screw–Cap
34	237–37	2	Grommet
35	104–4086–01	1	Shield–Muffler



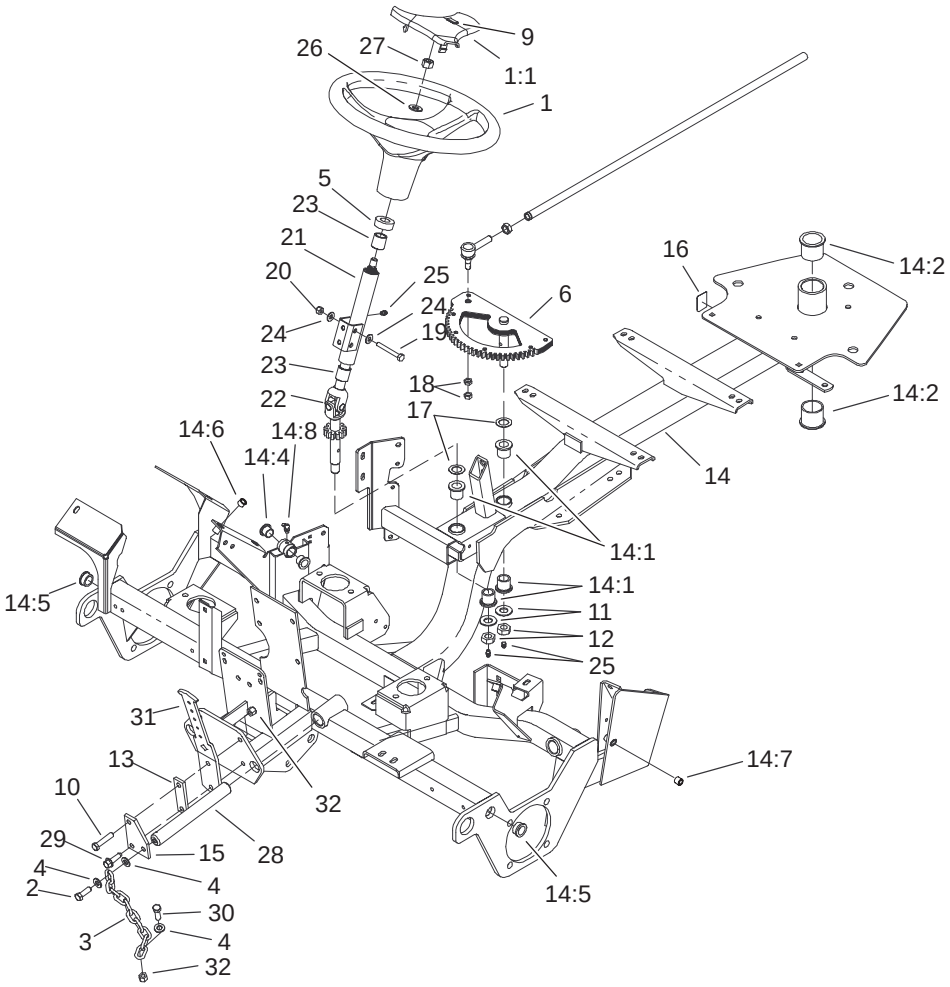
Sheet No.:4

Instrument Panel Assembly

Ref. No.	Part No.	Qty.	Description
1	104–3967	1	Cable–Control, Throttle
1:1	66–0120	1	Knob
2	93–6743	1	Stop–Throttle
3	104–4075–03	1	Plate–Latch
4	105–8505	1	Control Module ASM
☆4:6		7	Screw–PPH
☆4:7		2	Screw–PPH
☆4:8		2	O–Ring
5	32144–110	3	Screw–HWH
6	3234–4	2	Screw–HHF
7	63–8360	2	Key–Ignition
8	32144–18	2	Screw–HH
9	75–6820	1	Hourmeter
10	32144–1	3	Screw–Taptite
11	3256–4	1	Washer–Flat
12	100–8070	1	Lamp–Warning
13	100–8071	1	Lamp–Warning
14	32128–44	2	Nut
15	104–4076–03	1	Plate–Spring, Keeper
16	93–9998	1	Switch–PTO
17	104–4077	1	Wire–Form
18	94–5973	1	Hook
19	104–3991	1	Decal–Panel, Instrument
20	104–3864–03	1	Panel–Instrument

Ref. No.	Part No.	Qty.	Description
21	99–9666	1	Module
22	32128–33	4	Nut–HF
23	104–3994	1	Decal–Instrument Panel, Ce
24	3256–2	5	Washer–Flat
25	104–3910	1	Harness–Wire
*25:1	218–578	1	Fuse–10 Amp
*25:2	109355	1	Fuse–15 Amp
*25:3	104–4022	1	Resistor–75 Ohm
26	99–7435	1	Relay–Power
27	104–4071	1	Light–Indicator, Amber
28	104–2541	1	Switch–Key
28:1	218–461	1	Nut–HH
28:2	3254–5	1	Washer–Lock, Internal
29	322–41	1	Screw–HH
30	32144–10	1	Screw–HWH
31	3234–13	2	Screw–HHF

☆ Not serviced separately
* Not illustrated

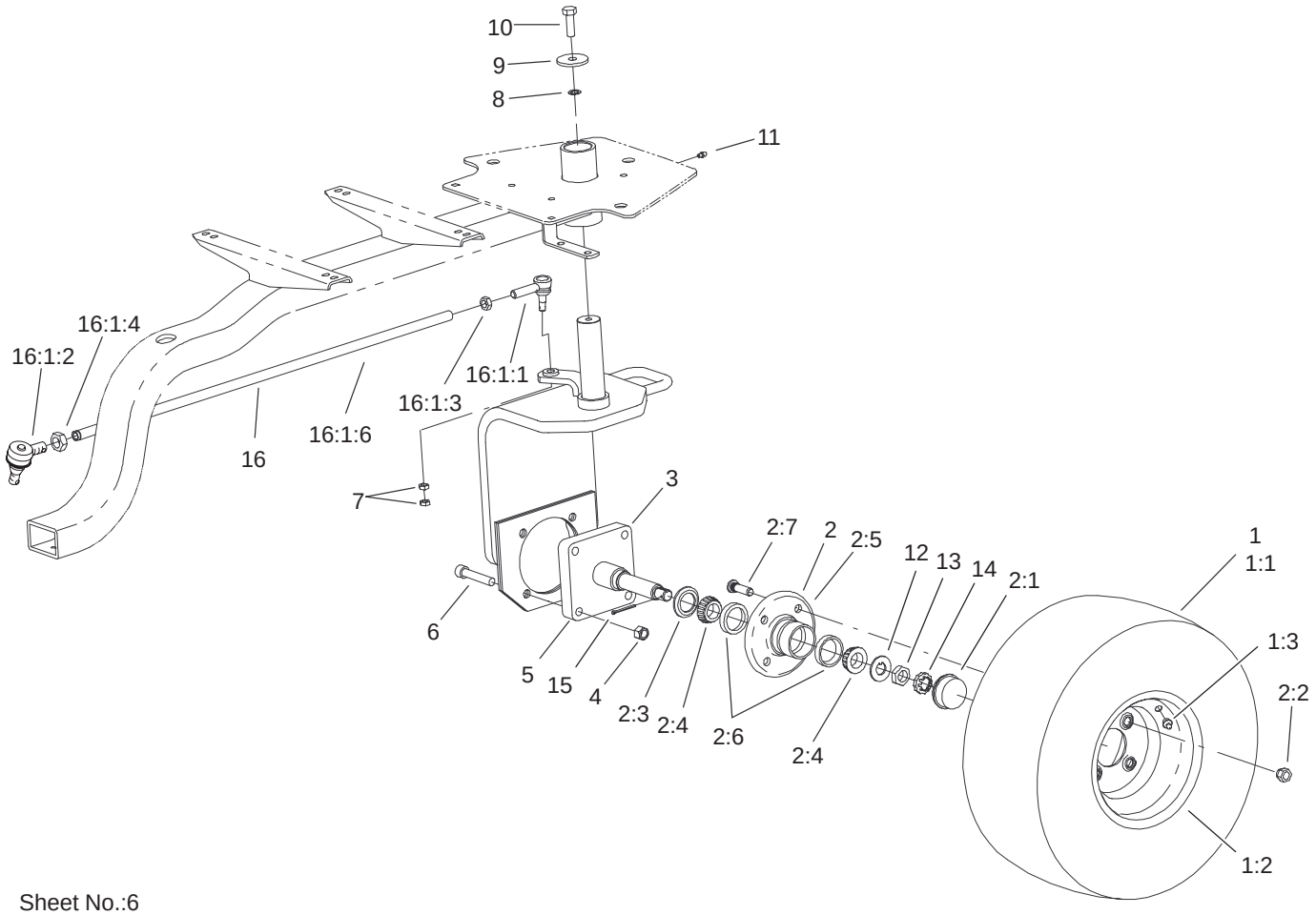


Sheet No.:5

Steering Assembly

Ref. No.	Part No.	Qty.	Description
1	98–1471	1	Wheel–Steering
1:1	98–1468	1	Cover–Wheel, Steering
2	323–18	2	Screw–HH
3	93–6738	2	Chain
4	3256–24	6	Washer–Flat
5	21–9260	1	Cover–Dust
6	93–6768–03	1	Gear–Sector
9	98–1459	1	Decal–Toro
10	323–9	2	Screw–HH
11	3256–27	2	Washer–Flat
12	3296–33	2	Nut–Lock, NI
13	98–3445	2	Spacer
14	104–3913	1	Frame ASM
14:1	92–3162	4	Bushing
14:2	256–245	2	Bushing–Flange
14:4	75–2160	2	Bushing
14:5	256–247	2	Bushing–Flange
14:6	32148–7	4	Insert–Nut
14:7	32148–8	1	Insert–Threaded
14:8	302–60	1	Fitting–Grease
15	98–3446	2	Plate–Reinforcement
16	93–7252	1	Decal–International
17	3–6498	6	Washer–Thrust
18	3220–3	2	Nut–Jam
19	322–12	1	Screw–HH

Ref. No.	Part No.	Qty.	Description
20	3296–29	1	Nut–Lock, NI
21	93–6769–03	1	Column–Steering
22	94–5969	1	Shaft And Gear–Steering
23	256–27	2	Bushing
24	87–8640	2	Washer–Flat
25	302–5	3	Fitting–Grease
26	3256–26	1	Washer–Flat
27	3296–25	1	Nut–Lock, NI
28	92–1812	2	Shaft–Pivot, Lift
29	32144–109	2	Screw
30	323–7	2	Screw–HH
31	92–1818–01	2	Arm–Spring, Tension
32	3296–39	4	Nut–Lock, NI



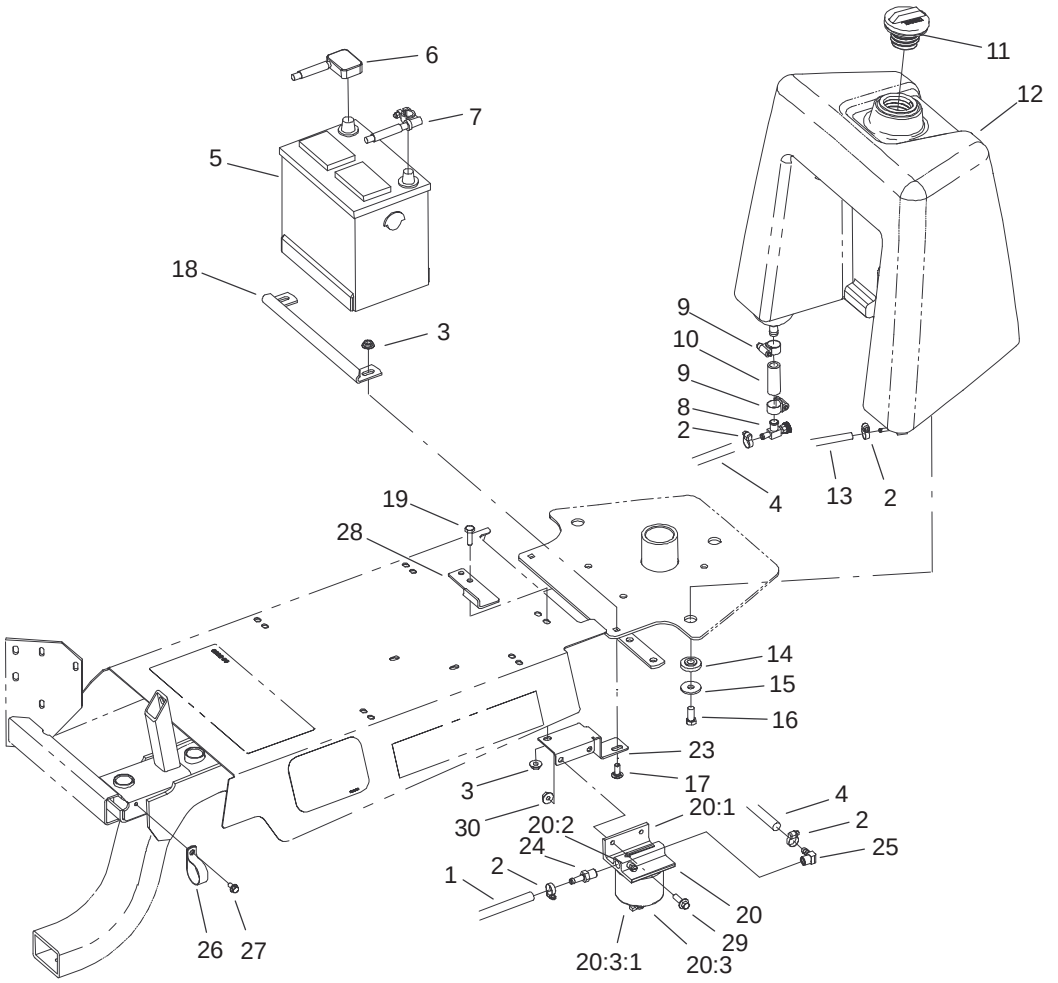
Sheet No.:6

Castor Fork Assembly

Ref. No.	Part No.	Qty.	Description
☆1		1	Tire & Wheel ASM
1:1	94–5028	1	Tire
1:2	93–6881	1	Rim ASM
1:3	232–27	1	Stem–Valve
2		1	Hub ASM
2:1	241–119	1	Cap–Dust
2:2	242–50	4	Nut–Lug
2:3	253–129	1	Seal
2:4	254–94	2	Bearing–Cone, Taper
2:5	80–6580	1	Hub
2:6	254–72	2	Bearing–Cup, Tapered
2:7	10–6830	4	Stud–Type, Drive
3	104–3966–03	1	2wd Hub ASM
4	3296–23	4	Nut–Lock, NI
5	93–6782–01	1	Fork–Wheel, Rear
6	3274–93	4	Screw–HSH
7	3220–3	2	Nut–Jam
8	3255–2	1	Washer–Lock/Ext
9	75–7730	1	Washer–Thrust
10	325–6	1	Screw–HH
11	302–5	1	Fitting–Grease
12	93–0309	1	Washer–Tab
13	3220–7	1	Nut–Jam
14	93–0307	1	Nut–Lock, Retainer
15	3272–13	1	Pin–Cotter
☆16		1	Steering Tube ASM

Ref. No.	Part No.	Qty.	Description
16:1:1	21–0141	1	RH Ball Joint ASM
16:1:2	21–0151	1	LH Ball Joint ASM
16:1:3	3220–12	1	Nut–HJ,LH Thread
16:1:4	3220–5	1	Nut–Jam
16:1:6	61–2070–03	1	Tube–Steering

☆ Not serviced separately

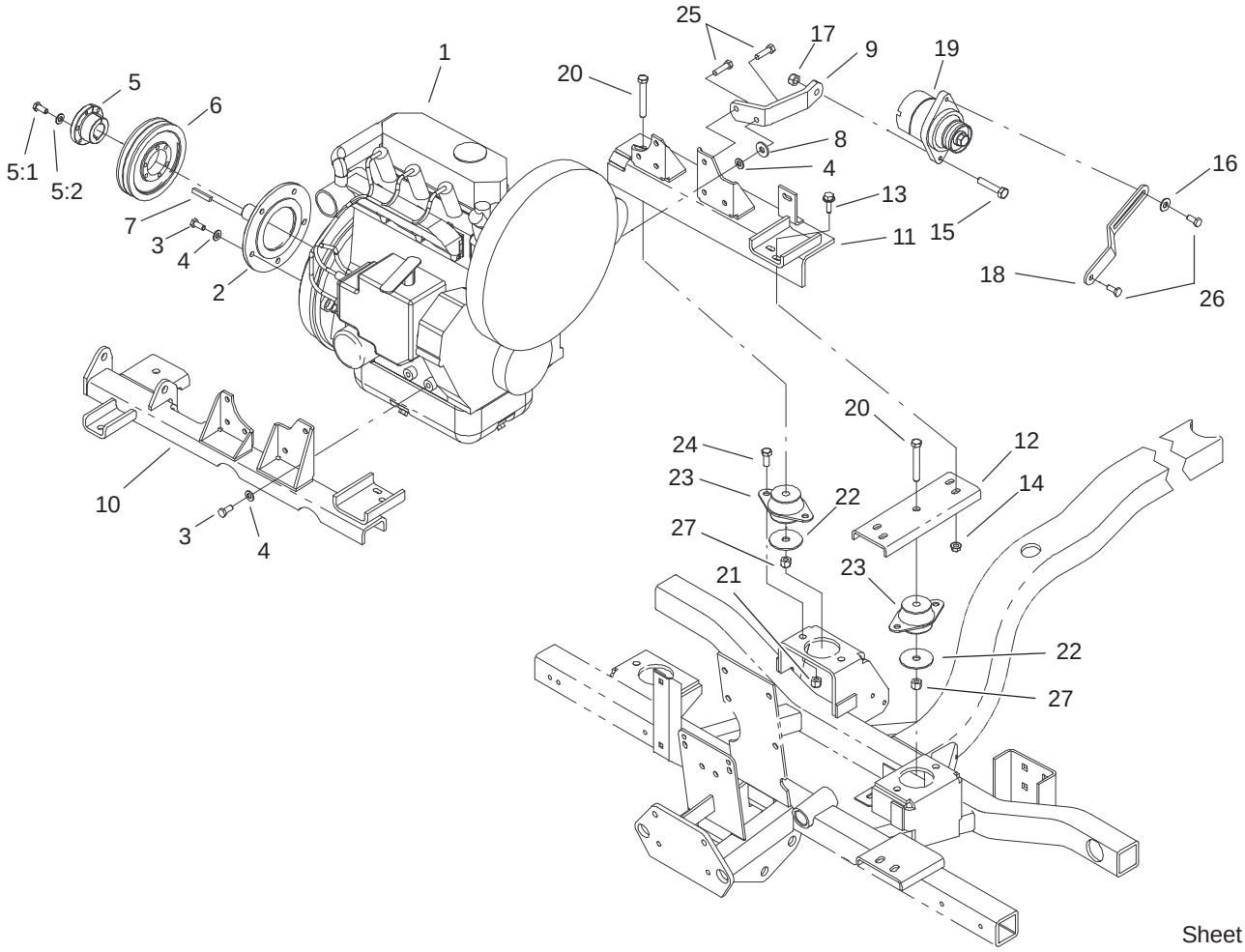


Sheet No.:7

Fuel Tank and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	93–5483	1	Hose–Fuel
2	2412–108	4	Clamp–Worm
3	32128–44	4	Nut
4	27–5370	1	Hose–Fuel
5	104–9979	1	Battery (Dry)
6	104–4061	1	Cable–Battery, Pos
7	94–5980	1	Cable–Battery, Neg
8	56–2520	1	Fitting–Shut Off, Fuel
9	2412–36	2	Clamp–Hose
10	56–2230	1	Hose–Fuel
11	93–3102	1	Cap–Fuel
12	83–8720	1	Tank–Fuel
13	104–4070	1	Hose–Fuel
14	240–11	3	Grommet–Mount, Tank
15	63–8410	3	Washer
16	323–5	3	Screw–HH
17	3230–1	2	Screw–CARR
18	83–9240	1	Bracket–Battery
19	322–5	2	Screw–HH
20	63–7650	1	Separator–Filter/Water
20:1	63–8280	1	Head ASM
20:2	63–8290	1	Vent–Air
20:3	63–8300	1	Element–Spin–On
20:3:1	63–8310	1	Valve–Drain
23	104–3947–01	1	Bracket–Filter, Fuel

Ref. No.	Part No.	Qty.	Description
24	353–783	1	Fitting
25	353–781	1	Fitting
26	2412–74	1	R–Clamp
27	32144–4	1	Screw–HWH
28	104–4028–01	1	Bracket–Stop
29	3234–4	2	Screw–HHF
30	32128–33	2	Nut–HF

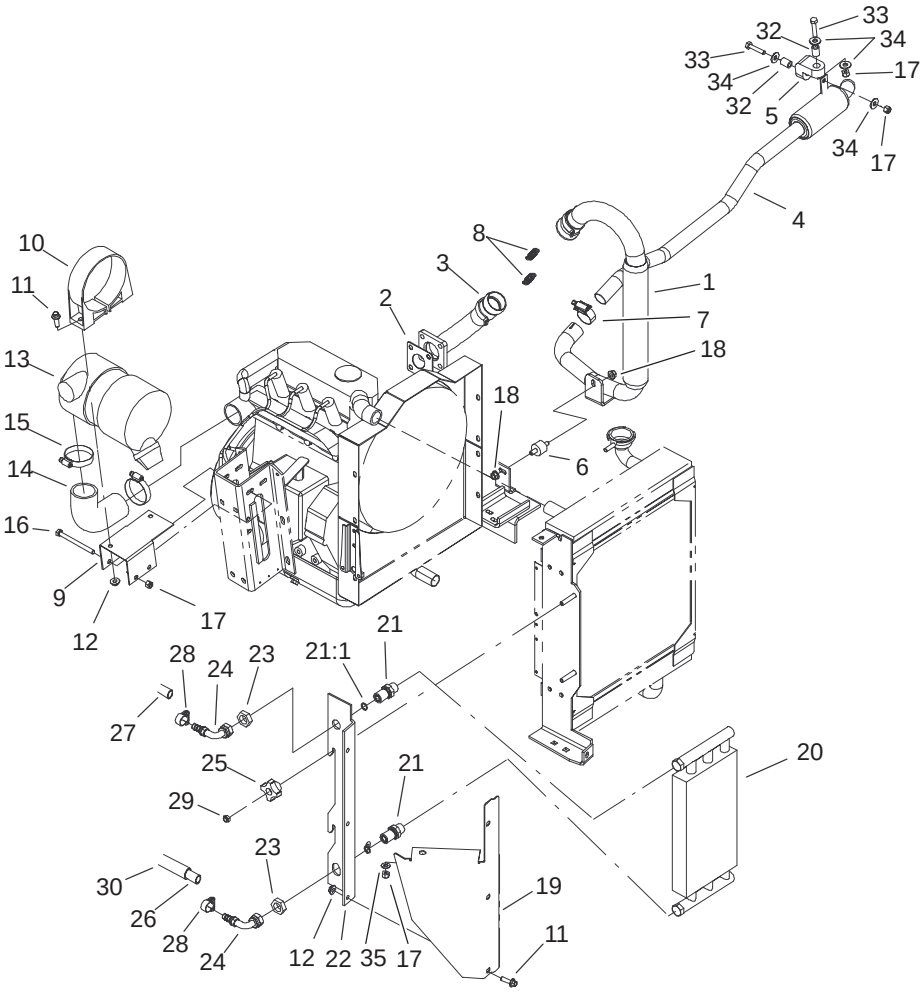


Sheet No.:8

Engine Assembly

Ref. No.	Part No.	Qty.	Description
1	104–3855	1	Engine–B/S, Diahatsu
2	104–3860–03	1	Shaft–Stub, Flywheel
3	33114–020	16	Screw–HH
4	3256–23	17	Washer–Flat
5	61–3340	1	Bushing
5:1	100–4208	3	Screw–HH
5:2	100–4209	3	Washer–Lock/Sp
6	100–4207	1	Sheave
7	67–7490	1	Key
8	80–6990	1	Washer–Hardened
9	93–2445	1	Bracket–Alternator, Upper
10	104–3869–03	1	Frame–Engine, Front
11	104–3868–03	1	Frame–Engine, Rear
12	104–3870–03	1	Channel–Engine
13	3234–29	4	Screw–HHF
14	32128–20	4	Nut–HF
15	33115–050	1	Screw–HH
16	3256–3	1	Washer–Flat
17	33025–00	1	Nut–Lock
18	93–2446	1	Bracket–Alternator, Lower
19	99–9209	1	Alternator
20	324–11	3	Screw–HH
21	3296–39	6	Nut–Lock, NI
22	87–5100	3	Washer–Snubbing

Ref. No.	Part No.	Qty.	Description
23	53–9681	3	Mount–Engine
24	323–5	6	Screw–HH
25	33114–030	2	Screw–HH
26	33114–020	2	Screw–HH
27	3296–48	3	Nut–Lock NI

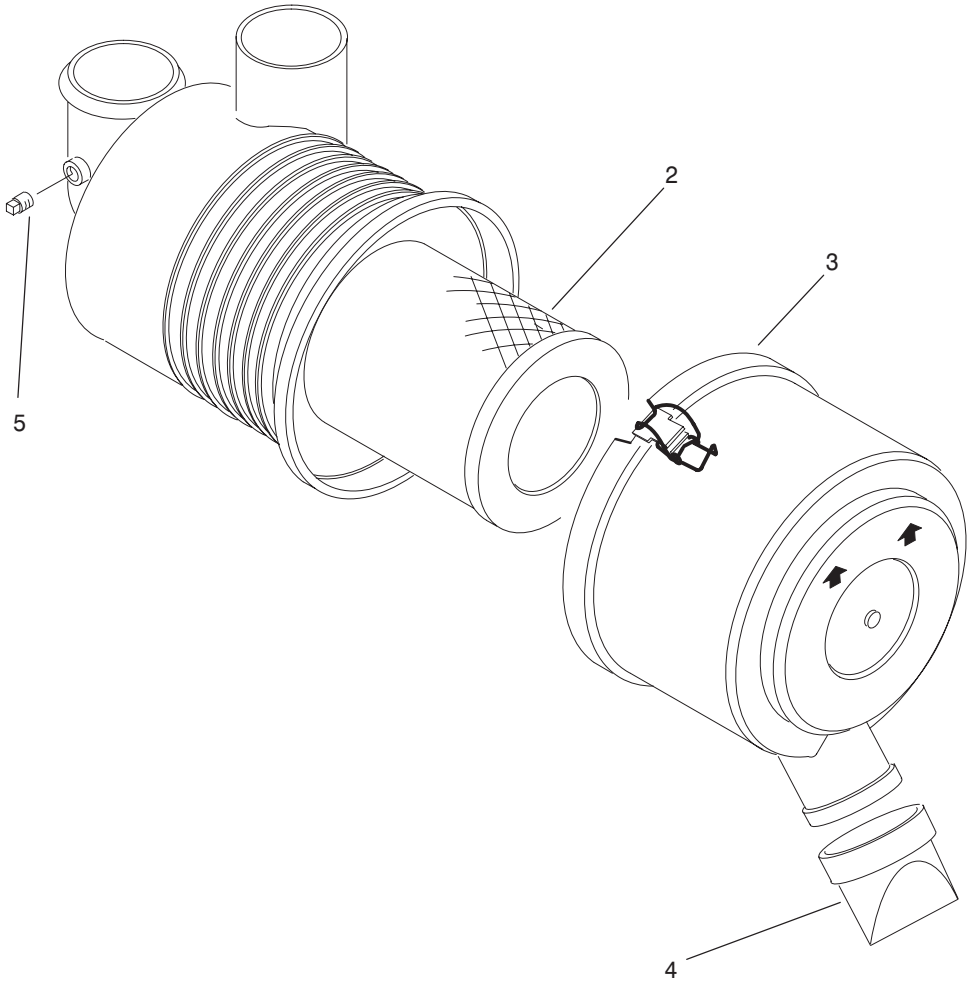


Sheet No.:9

Muffler, Air Cleaner and Oil Cooler Assembly

Ref. No.	Part No.	Qty.	Description
1	104–4034	1	Muffler
2	99–9179	1	Gasket–Exhaust
3	104–4035	1	Header–Muffler
4	104–4036	1	Tailpipe
5	95–5622	1	Hanger–Rubber
6	104–4038	1	Isolator–Rubber
7	104–4090	1	Clamp–Muffler
8	104–6478	2	Spring–Coupler, Exhaust
9	104–3884–03	1	Bracket–Cleaner, Air
10	95–5806	1	Bracket–Mounting
11	3234–17	5	Screw–HHF
12	32128–44	5	Nut
13	93–2190	1	Air Cleaner ASM
14	104–3908	1	Hose–Intake, Air
15	2412–92	2	Clamp–Hose
16	322–23	2	Screw–HH
17	3296–29	5	Nut–Lock, NI
18	33004–00	2	Nut–HF
19	83–8210–03	1	Panel–Front, Left
20	93–6932	1	Cooler–Oil
21	83–7970	2	Connector
21:1	237–30	1	O–Ring
22	88–6730–03	1	Bracket–Screen, Front
23	340–127	2	Nut–Bulkhead
24	93–6803	2	Fitting–90°

Ref. No.	Part No.	Qty.	Description
25	93–7159	2	Handle–Knob
26	104–4004	1	Hose
27	93–6805	1	Hose
28	2412–36	2	Clamp–Hose
29	32153–3	2	Nut–Lock
30	93–6933	1	Sleeve–Protective
32	93–5023	2	Spacer
33	322–7	2	Screw–HH
34	3256–3	4	Washer–Flat
35	3256–23	1	Washer–Flat

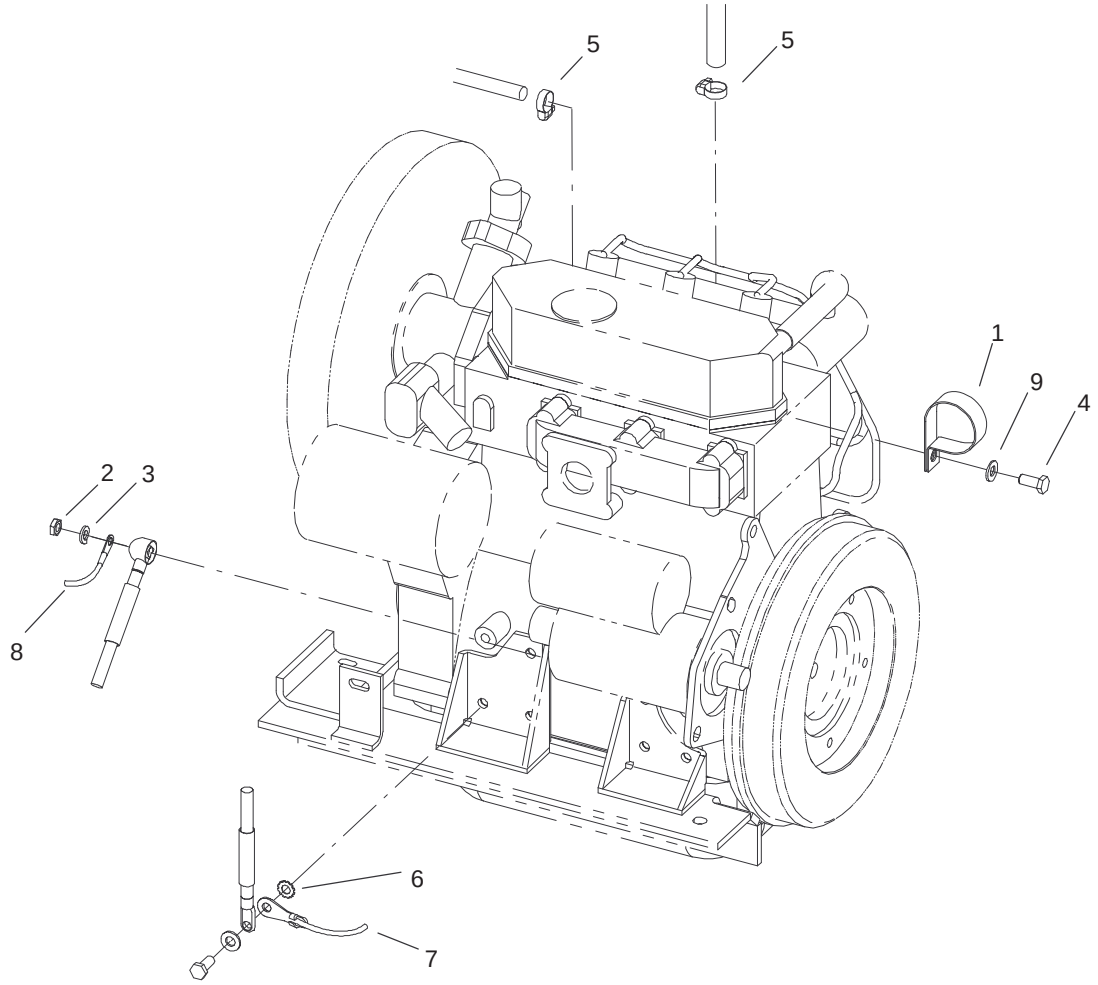


Sheet No.:A2
T–3711

Air Cleaner Assembly No. 93–2190

Ref. No.	Part No.	Qty.	Description
2	93–2195	1	Filter
3	94–3652	1	Cover ASM
4	94–1414	1	Valve–Vacuator
5	285–17	1	Plug–Pipe

Ref. No.	Part No.	Qty.	Description



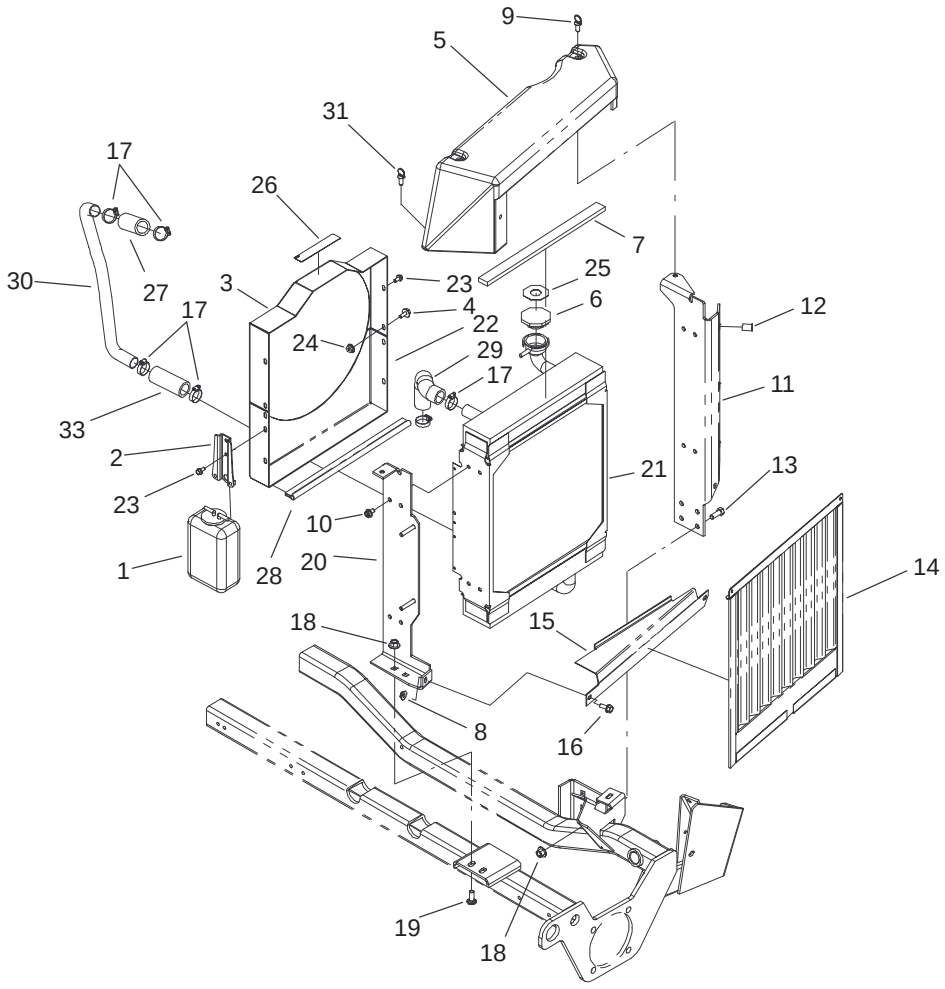
Sheet No.:10

Engine Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	2412–96	2	Clamp–R
2	57–6390	1	Nut–Jam
3	42–9850	1	Washer–Lock, Spring
4	33114–016	2	Screw–HH
5	2412–108	2	Clamp–Worm
6	3255–8	1	Washer–Lock
7	104–3986	1	Harness–Wire, Engine
*7:1	100–4918	1	Diode
8	99–3441	1	Harness–Wire, Fusible Link
9	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

* Not illustrated

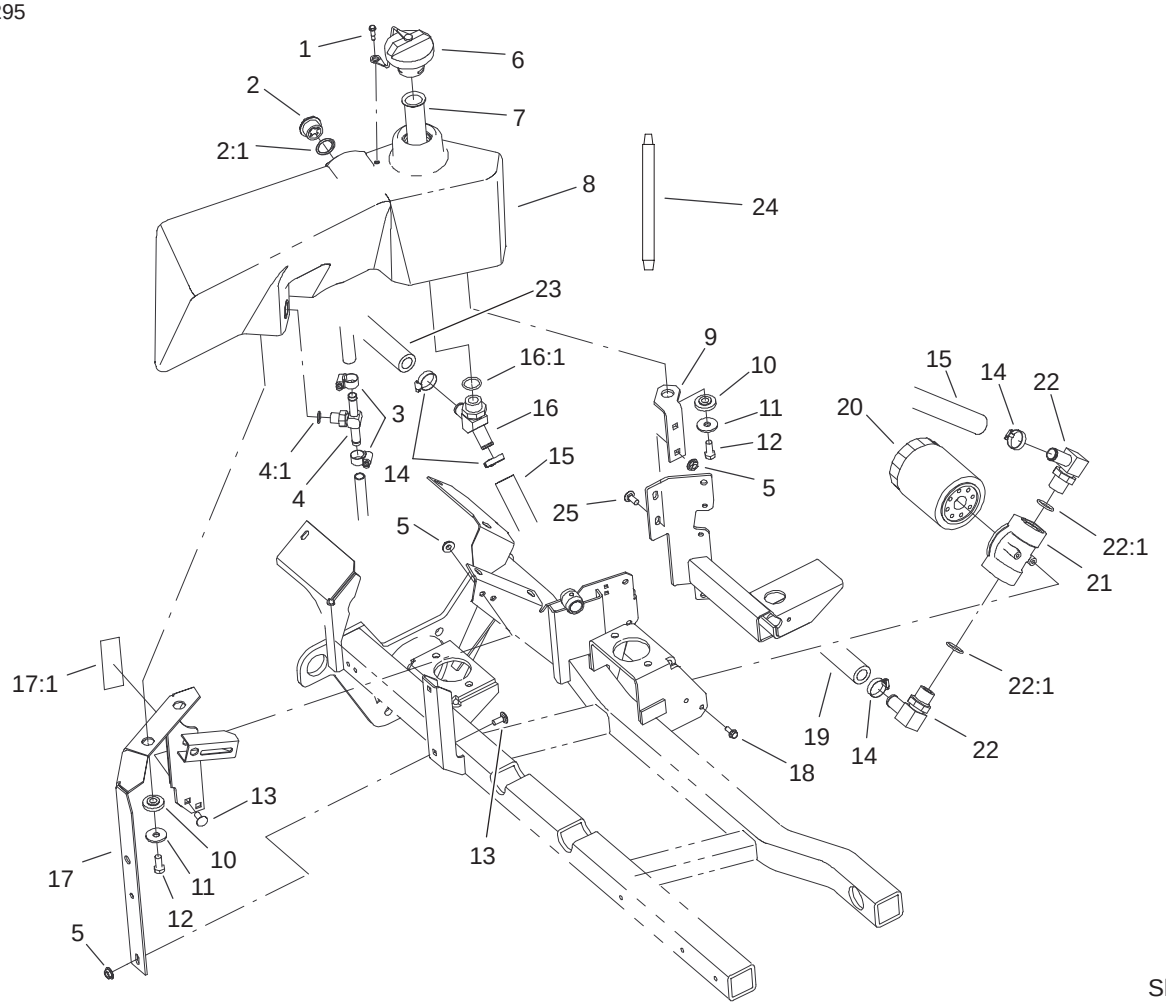


Sheet No.:11

Radiator Assembly

Ref. No.	Part No.	Qty.	Description
1	104–3930	1	Tank–Radiator, Surge
2	104–3931	1	Mounting–Tank, Surge
3	104–3944–03	1	Shroud–Radiator, Top
4	3234–4	2	Screw–HHF
5	83–8040	1	Cover–Left
6	66–3240	1	Cap–Radiator
7	83–9030	1	Foam–Top
8	32128–44	3	Nut
9	104–4000	2	Screw–Thumb
10	3234–28	8	Screw–HHF
11	104–4006–03	1	Rear Radiator Bracket ASM
12	32148–8	3	Insert–Threaded
13	323–6	4	Screw–HH
14	83–8150–03	1	Screen ASM
15	83–8070–03	1	Shield–Radiator, Bottom
16	3234–5	2	Screw
17	2412–34	6	Clamp–Hose
18	32128–43	6	Nut–Flange
19	3231–22	2	Screw–CARR
20	104–4008–03	1	Front Radiator Bracket ASM
21	104–3861	1	Radiator ASM
22	104–3945–03	1	Shroud–Radiator, Bottom

Ref. No.	Part No.	Qty.	Description
23	32104–116	7	Screw
24	32128–33	2	Nut–HF
25	93–7840	1	Decal–Cap, Radiator
26	93–7272	1	Decal–Warning
27	104–3912	1	Hose–Radiator
28	104–4029	2	Seal–Bulb
29	104–3911	1	Hose–Radiator, Top
30	104–3914–03	1	Tube–Radiator
31	3234–17	1	Screw–HHF
33	104–4068	1	Hose–Radiator

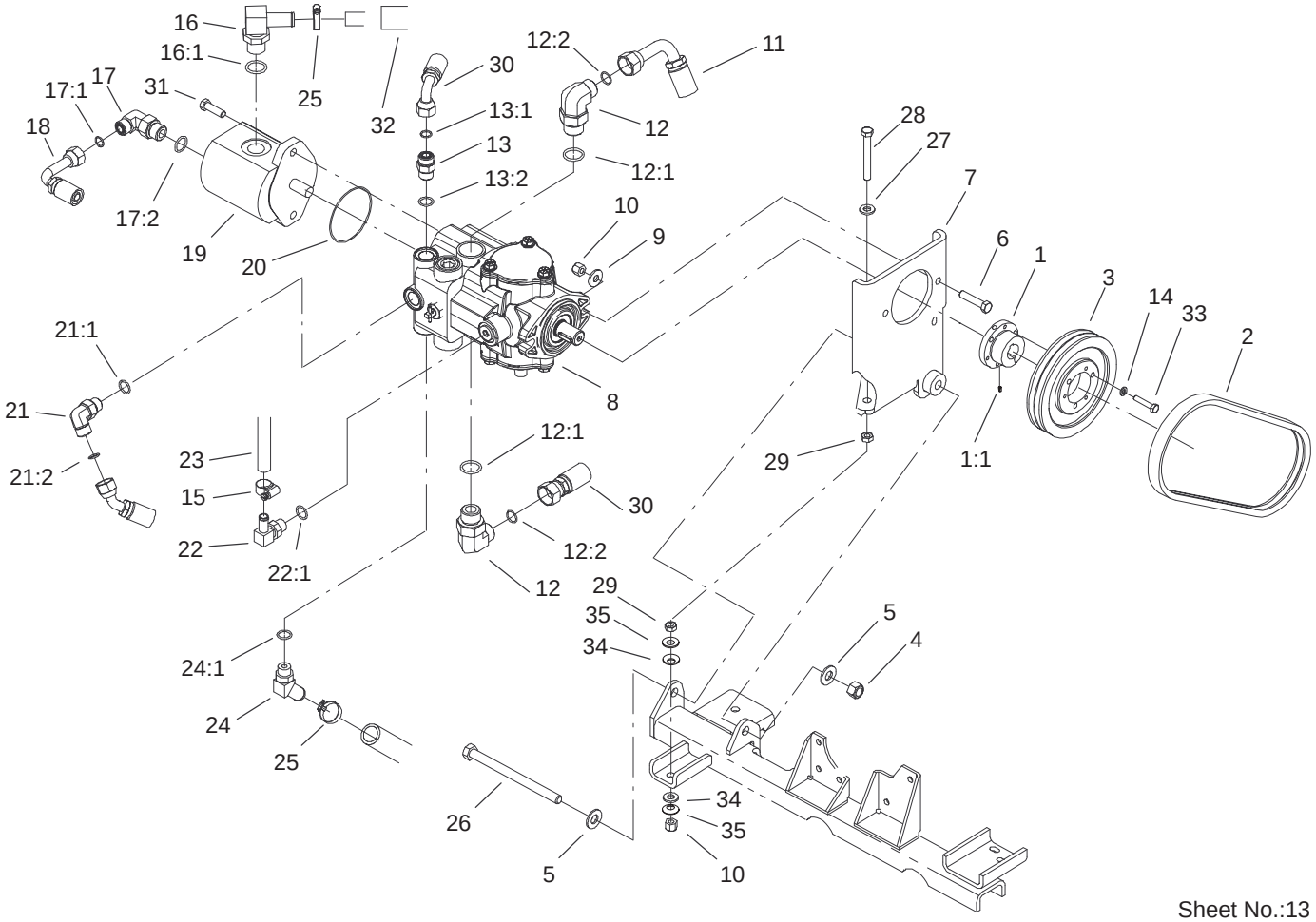


Sheet No.:12

Hydraulic Tank and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	57–5420	1	Screw–Shoulder
2	69–1170	1	Glass–Sight
2:1	237–81	1	O–Ring
3	2412–36	2	Clamp–Hose
4	104–3963	1	Fitting–Tee
4:1	237–65	1	O–Ring
5	32128–44	6	Nut
6	93–7160	1	Cap–Oil, HYD
7	61–2790	1	Filter–Screen
8	93–6811	1	Tank–HYD
9	83–9920	1	Bracket–Tank, HYD
10	240–11	3	Grommet–Mount, Tank
11	63–8410	3	Washer
12	323–5	3	Screw–HH
13	3230–23	4	Screw–CARR
14	2412–34	4	Clamp–Hose
15	104–4089	1	Hose–Suction
16	93–6794	1	Fitting–45°
16:1	237–81	1	O–Ring
17	104–3980	1	U–Bracket ASM
17:1	67–5360	1	Decal–Danger
18	3234–33	2	Screw–HHF
19	104–4011	1	Hose–Suction
20	54–0110	1	Filter–Oil, Transmission

Ref. No.	Part No.	Qty.	Description
21	68–8990	1	Filter Head ASM
22	353–987	2	Fitting–HYD, 90°
22:1	237–81	1	O–Ring
23	93–6857	1	Hose–Suction
24	88–9220	1	Plug–Reservior
25	3234–5	2	Screw

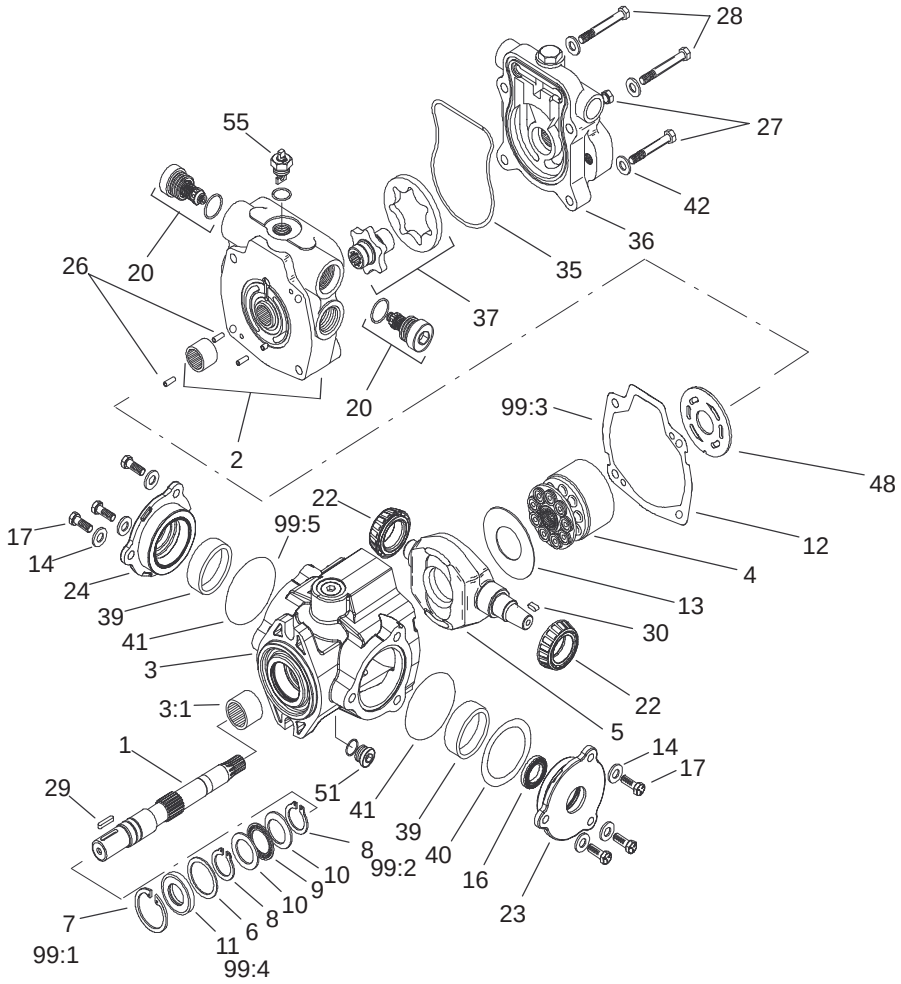


Sheet No.:13

Hydraulic Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	93–6842	1	Bushing–Lock, Taper
1:1	3245–36	1	Screw–HSH
2	93–6840	1	V–Belt
3	93–6841	1	Pulley
4	3296–23	1	Nut–Lock, NI
5	87–7270	2	Washer–Thrust
6	323–9	2	Screw–HH
7	104–3898–03	1	Pump Support ASM
8	104–3874	1	Pump–Piston, HYD
9	80–6990	2	Washer–Hardened
10	3296–39	3	Nut–Lock, NI
11	104–3999	1	Hose ASM
12	340–139	2	Fitting–HYD, 90°
12:1	237–81	1	O–Ring
12:2	237–65	1	O–Ring
13	340–4	1	Adapter
13:1	237–30	1	O–Ring
13:2	237–79	1	O–Ring
14	3253–3	3	Washer–Lock
15	2412–36	1	Clamp–Hose
16	353–987	1	Fitting–HYD, 90°
16:1	237–81	1	O–Ring
17	340–105	1	Fitting–90°
17:1	237–80	1	O–Ring
17:2	237–30	1	O–Ring
18	104–4003	1	Hose ASM

Ref. No.	Part No.	Qty.	Description
19	99–6131	1	Pump–Drive, Reel
20	353–949	1	O–Ring
21	340–98	1	Fitting–HYD, 90°
21:1	237–79	1	O–Ring
21:2	237–30	1	O–Ring
22	93–6795	1	Fitting–90°
22:1	237–79	1	O–Ring
23	104–4059	1	Hose–Return
24	93–6848	1	Fitting–HYD
24:1	237–79	1	O–Ring
25	2412–34	2	Clamp–Hose
26	325–33	1	Screw–HH
27	100–4852	1	Washer–Hardened
28	323–49	1	Bolt–TAP
29	3217–7	2	Nut–Hex
30	104–3998	1	Hose ASM
31	323–7	2	Screw–HH
32	94–3688	1	Sleeve–Protective
33	321–13	3	Screw–HH
34	104–4067	2	Washer
35	104–4066	2	Washer

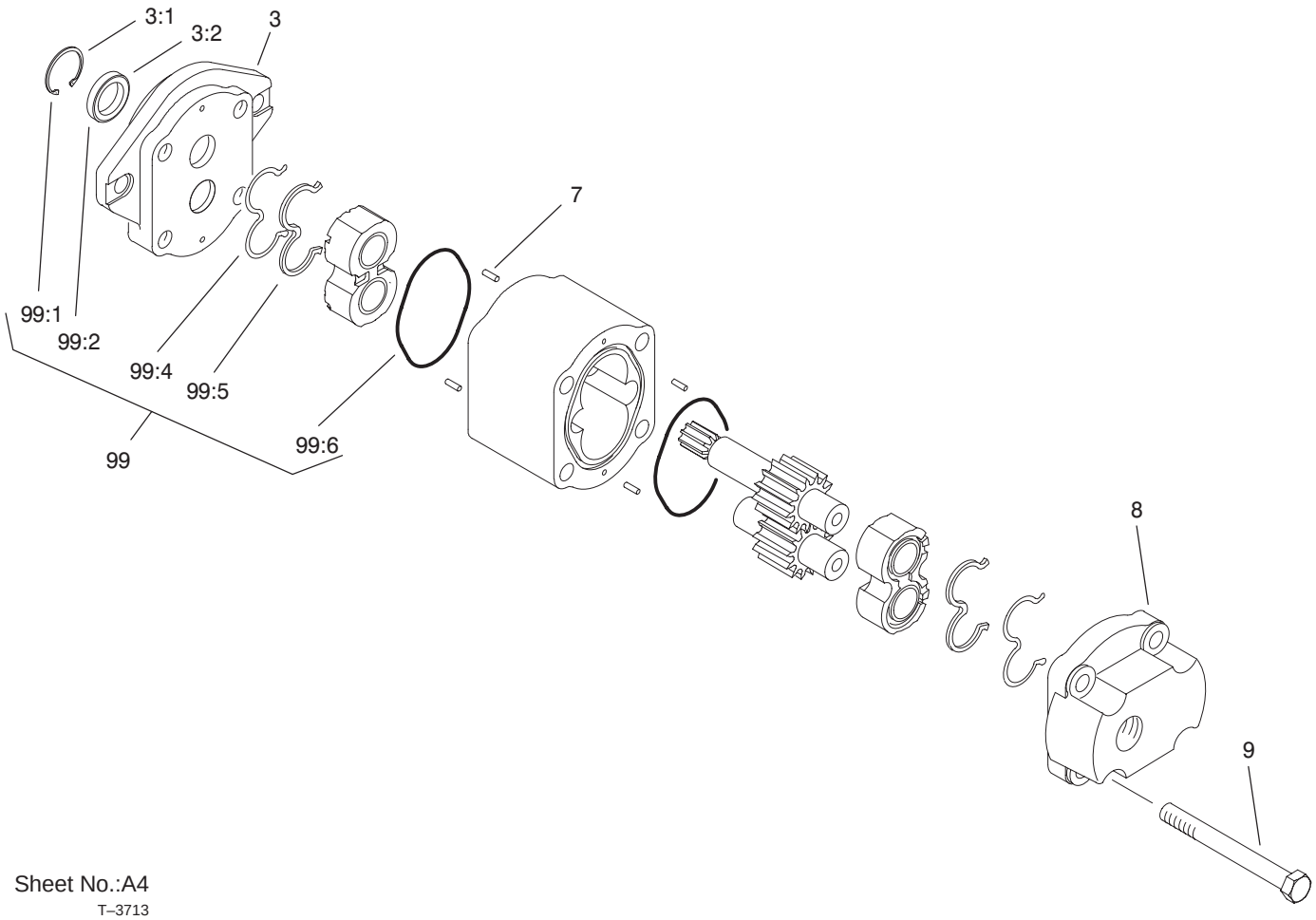


Sheet No.:A3

Hydraulic Piston Pump Assembly No. 104–3874

Ref. No.	Part No.	Qty.	Description
1	94–3642	1	Shaft–Drive
2	104–4047	1	Endcover
3	100–3176	1	Housing ASM
3:1	94–6363	1	Bearing
4	76–6070	1	Rotating Kit
5	100–3175	1	Camplate
6	33–3720	1	Washer
7	93–6390	1	Ring–Snap
8	32151–29	2	Ring–Retaining
9	252–66	1	Bearing–Thrust
10	252–71	2	Washer–Thrust
11	104–4861	1	Seal–Shaft
12	33–4930	1	Gasket–Housing
13	98–4635	1	Insert–Plate, Cam
14	105–9762	6	Washer
16	76–6190	1	Seal–Shaft
17	98–4640	6	Screw–Cap
20	105–3812	2	Valve–Check
22	98–4639	2	Bearing–Cone
23	98–4645	1	Plate–Cover
24	98–4644	1	Plate–Cover
26	76–6150	2	Pin–Dowel
27	104–4042	2	Screw–Cap
28	104–4043	2	Screw–Cap
29	94–3645	1	Key
30	94–3646	1	Key

Ref. No.	Part No.	Qty.	Description
35	104–4044	1	O–Ring
36	104–4045	1	Charge Pump Adapter ASM
37	94–3648	1	Gerotor & Coupler ASM
39	104–4046	2	Bearing–Cup
40	100–3182	2	Shim Kit
41	100–3179	2	O–Ring
42	104–4048	4	Washer
48	104–4049	1	Plate–Valve
51	74–9280	1	Plug ASM
55	105–3811	1	Valve–Bypass
99	104–4868	1	Seal Repair Kit
99:1	32151–13	1	Ring–Retaining
99:2	32151–29	1	Ring–Retaining
99:3	33–4930	1	Gasket–Housing
99:4	104–4861	1	Seal–Shaft
99:5	100–3179	1	O–Ring



Sheet No.:A4
T–3713

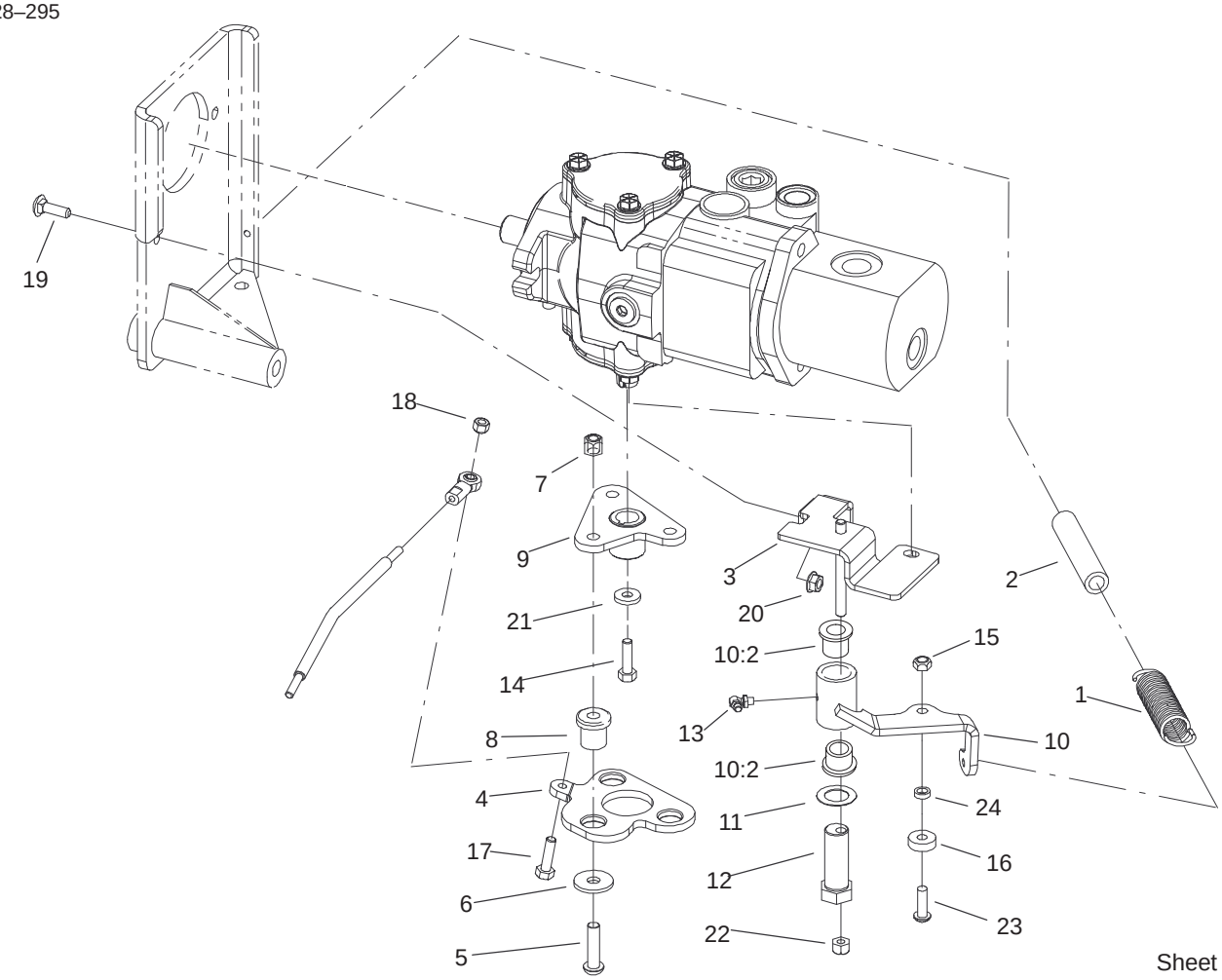
Reel Drive Pump Assembly No. 99–6131

Ref. No.	Part No.	Qty.	Description
3	94–3624	1	Flange Kit
☆3:1		1	Ring–Retaining
☆3:2		2	Seal–Shaft
7	94–3625	4	Pin–Dowel
8	94–3626	1	Cover–End
9	94–3639	4	Screw–HH
99	99–6132	1	Seal Kit
☆99:1		1	Ring–Retaining
☆99:2		2	Seal–Shaft
☆99:4		2	Seal–E
☆99:5		2	Ring–Backup
☆99:6		2	O–Ring

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

3328–295

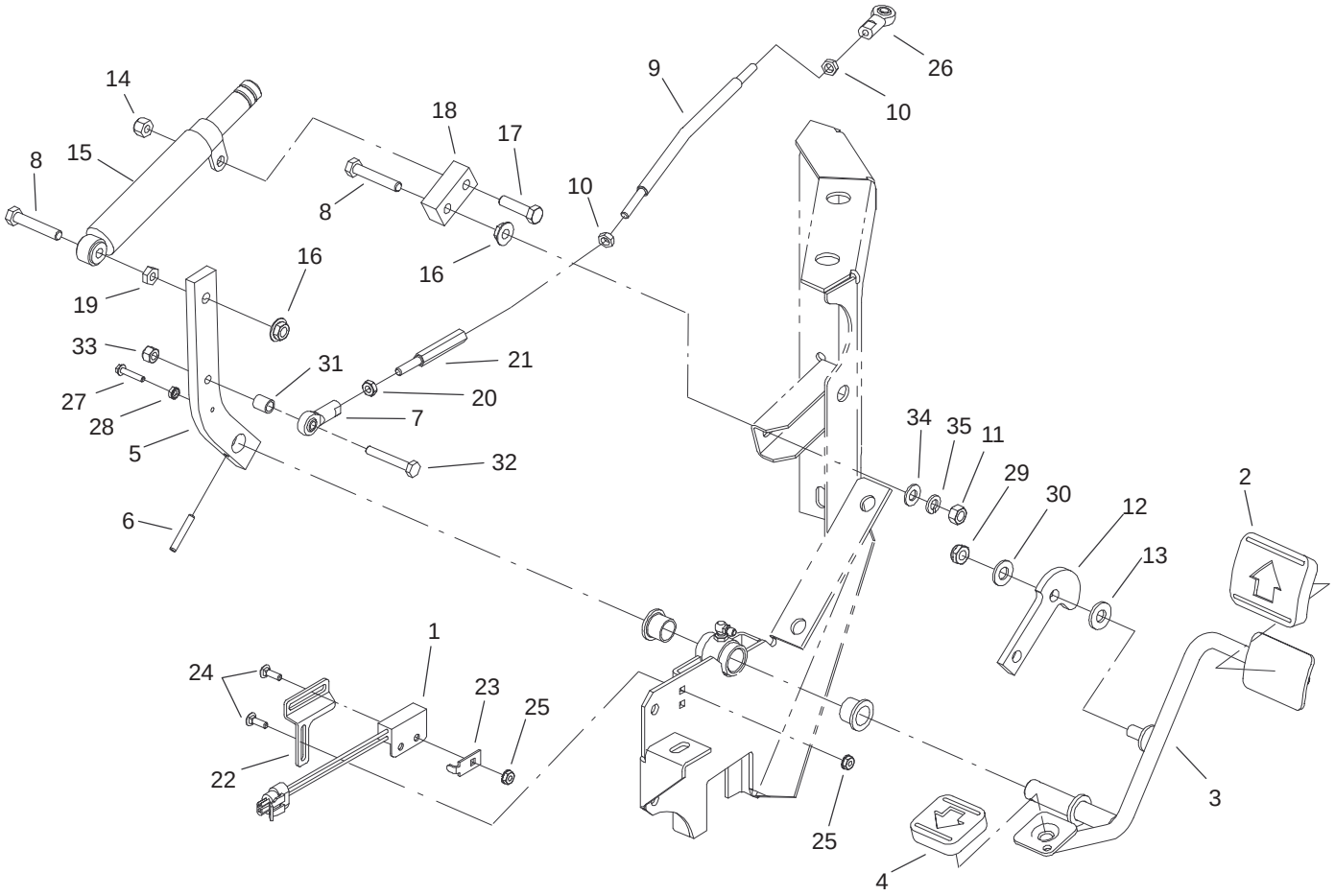


Sheet No.:14

Pump Mount Assembly

Ref. No.	Part No.	Qty.	Description
1	94–1369	1	Spring–Extension
2	99–3556	1	Hose
3	104–3918–03	1	Bracket ASM
4	104–3917–03	1	Lever–Pump
5	95–3857	3	Screw–Head, Button
6	2844	3	Washer
7	3296–39	3	Nut–Lock, NI
8	63–9750	3	Mount
9	99–3598–03	1	Hub ASM
10	104–0422	1	Neutral Arm ASM
10:2	256–113	2	Bushing–Flange
11	3–6498	1	Washer–Thrust
12	76–8640	1	Stud–Traction
13	302–60	1	Fitting–Grease
14	3210–6	1	Screw–HH
15	3296–47	1	Nut–Lock, NI
16	251–259	1	Bearing
17	321–6	1	Screw–HH
18	3296–42	1	Nut–Lock, NI
19	3230–22	1	Screw–CARR
20	32128–20	1	Nut–HF
21	88–7200	1	Washer–Flat
22	3296–29	1	Nut–Lock, NI
23	3274–104	1	Screw–HSBH
24	100–4817	1	Spacer–Bearing

Ref. No.	Part No.	Qty.	Description

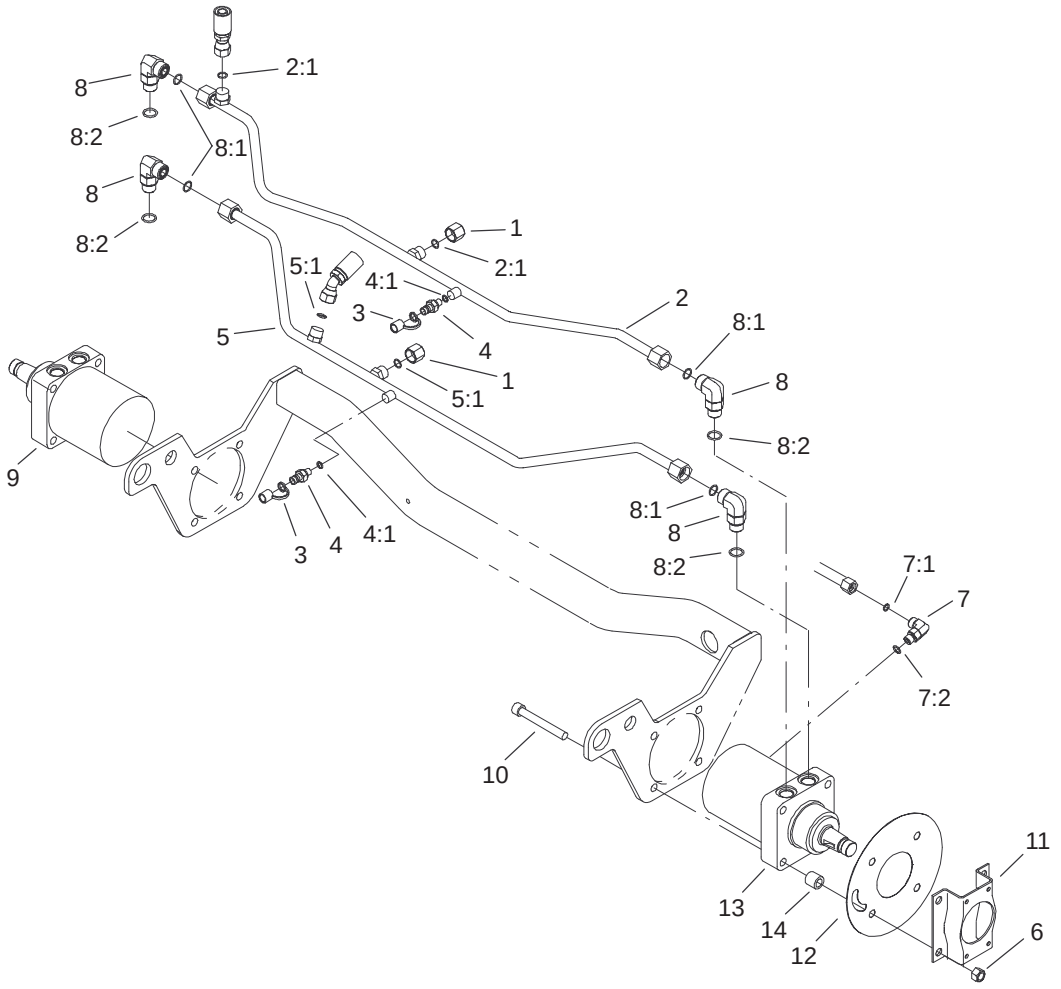


Sheet No.:15

Traction Control Assembly

Ref. No.	Part No.	Qty.	Description
1	105–0023	1	Switch–Proximity
2	74–9100	1	Pad–Pedal, Forward
3	104–3938–03	1	Traction Pedal ASM
4	74–9110	1	Pad–Pedal, Reverse
5	104–3939	1	Arm–Traction
6	32121–6	1	Pin–Roll
7	104–4013	1	Joint–Ball, LH
8	322–9	2	Screw–HH
9	104–3977	1	Rod–Control, Pump
10	3220–1	2	Nut–Jam
11	3217–6	1	Nut–Hex
12	74–6110	1	Stop–Traction
13	66–2920	1	Washer–Friction
14	3296–29	1	Nut–Lock, NI
15	76–8870	1	Lever Damper ASM
16	32128–44	2	Nut
17	322–6	1	Screw–HH
18	76–9760	1	Damper–Pivot
19	3218–2	1	Nut–Jam
20	104–3941	1	Nut–Jam
21	104–3978	1	Nut–Rod
22	104–3979	1	Bracket–Switch
23	100–4872	1	Plate–Switch, Neutral
24	3229–34	3	Bolt–CARR
25	32149–7	3	Nut–Keps
26	2411–41	1	Joint–Ball, Superior

Ref. No.	Part No.	Qty.	Description
27	32105–29	1	Screw–SHWH
28	32149–9	1	Nut
29	3296–59	1	Nut–Lock, NI
30	3256–24	1	Washer–Flat
31	93–6859	1	Spacer
32	321–10	1	Screw–HH
33	3296–42	1	Nut–Lock, NI
34	3256–23	1	Washer–Flat
35	3253–4	1	Washer–Lock

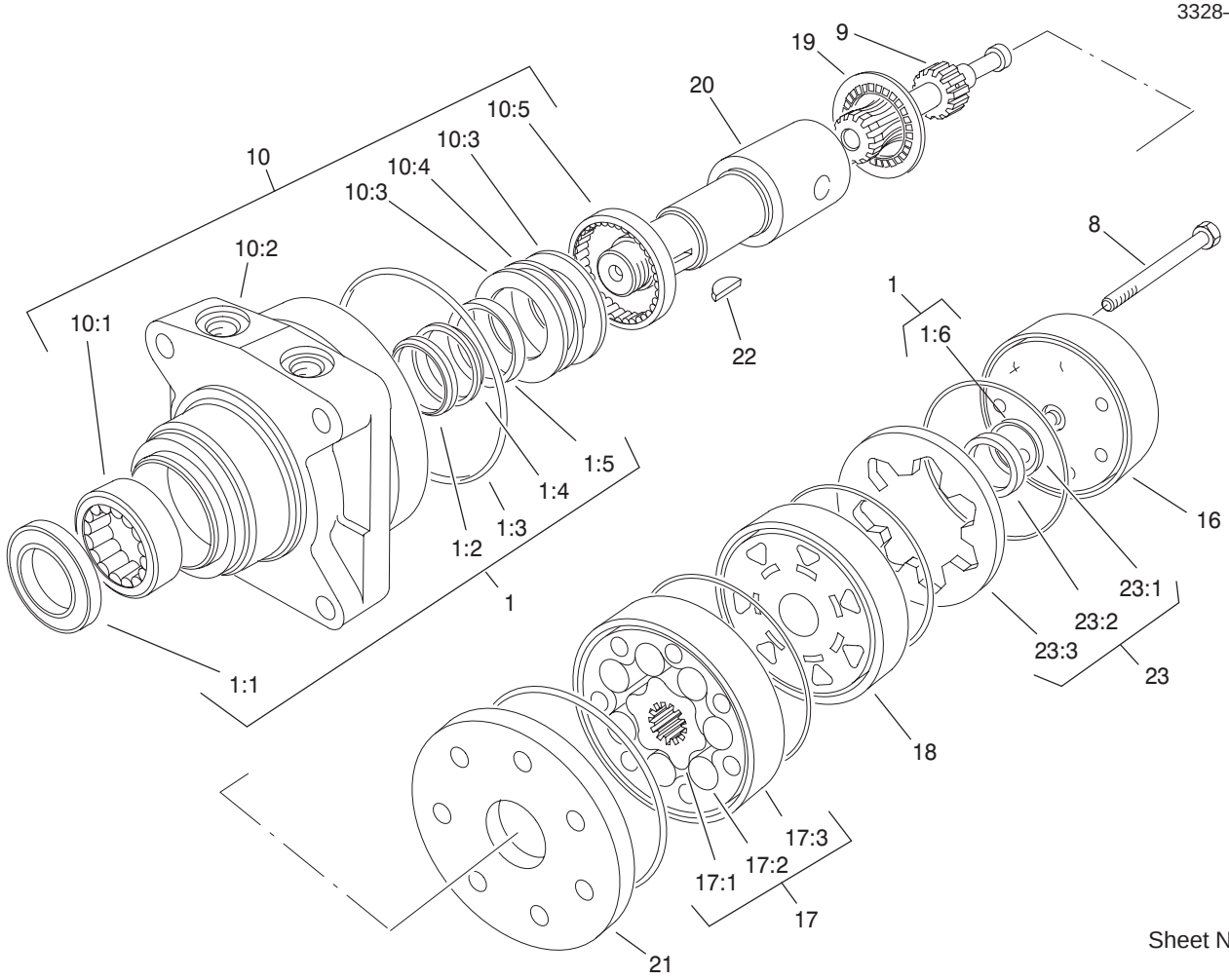


Sheet No.:16

Hydraulic Motor Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	340–152	2	Cap–HYD
2	104–3984	1	Front Tube ASM
2:1	237–30	2	O–Ring
3	354–79	2	Cap–Dust, Yellow
4	354–77	2	Fitting–Quick
4:1	237–78	1	O–Ring
5	104–3983	1	Rear Tube ASM
5:1	237–30	2	O–Ring
6	3296–23	8	Nut–Lock, NI
7	340–77	1	Fitting–HYD, 90°
7:1	237–22	1	O–Ring
7:2	237–42	1	O–Ring
8	340–17	4	Fitting–HYD, 90°
8:1	237–65	1	O–Ring
8:2	237–80	1	O–Ring
9	75–9990	1	HYD Motor ASM
10	3274–99	8	Screw–HSH
11	84–2000–03	2	Bracket–Brake
12	93–6905–03	2	Shield–Wheel
13	93–6888	1	Motor–Wheel
14	94–5135	8	Spacer

Ref. No.	Part No.	Qty.	Description



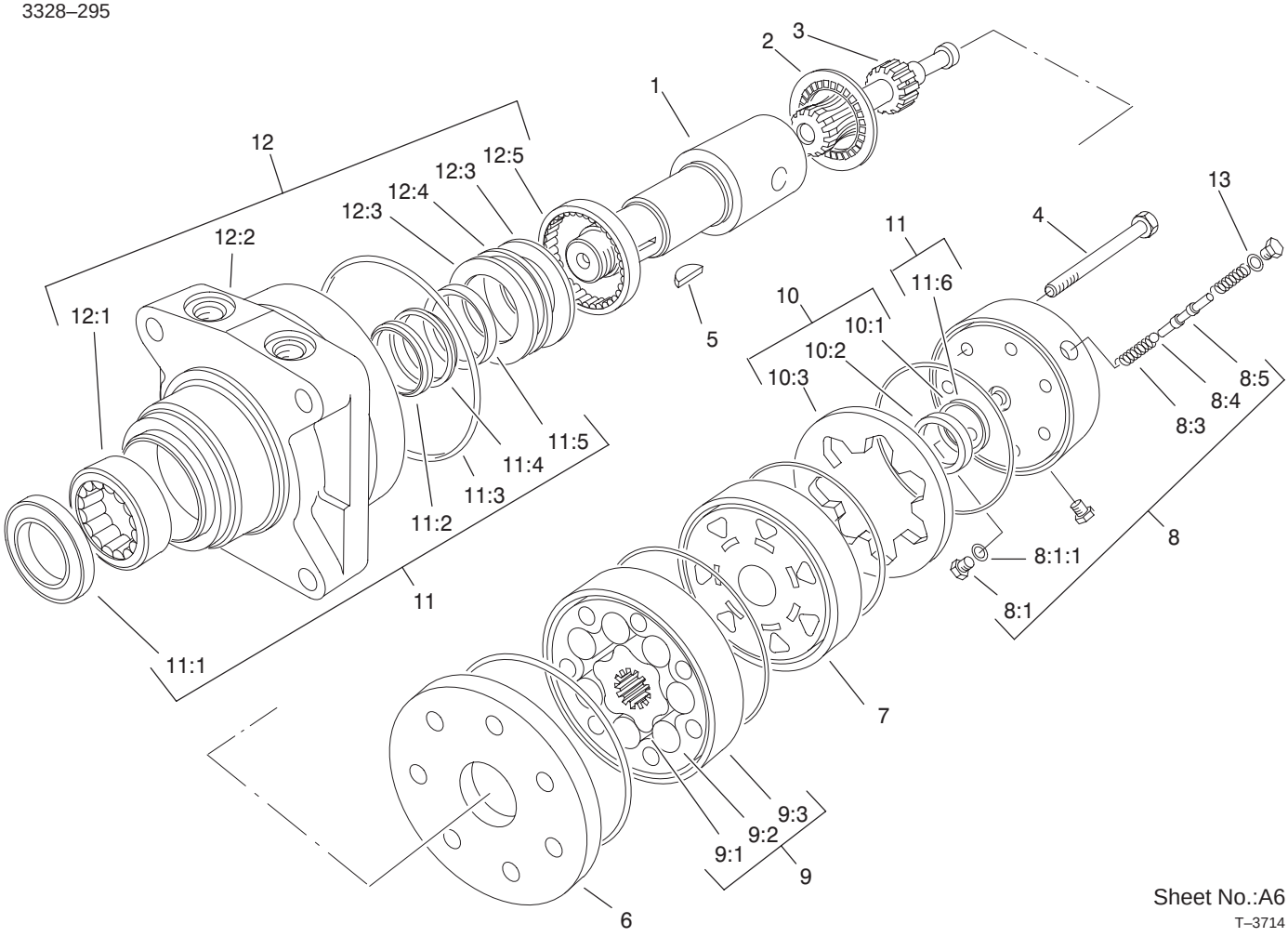
Sheet No.:A5
T–3824

Hydraulic Motor Assembly No. 75–9990

Ref. No.	Part No.	Qty.	Description
1	76–0800	1	Seal Kit
☆1:1		1	Seal–Dirt & Water
☆1:2		1	Washer–Back–Up
☆1:3		5	Ring–Seal
☆1:4		1	Washer–Back–Up
☆1:5		1	Seal–Inner
☆1:6		1	Seal–Commutator
8	76–1010	7	Screw
9	76–0960	1	Link–Drive
10	76–0810	1	Housing ASM
☆10:1		1	Bearing
☆10:2		1	Housing
☆10:3		2	Washer–Thrust
☆10:4		1	Bearing–Thrust
☆10:5		1	Bearing
16	76–0940	1	End Cover ASM
17	76–0970	1	Set–Rotor
☆17:1		1	Rotor
☆17:2		7	Vane
☆17:3		1	Stator
18	76–0840	1	Manifold
19	76–0850	1	Bearing–Thrust
20	76–0860	1	Shaft–Coupling
21	76–0870	1	Plate–Wear
22	3257–42	1	Key–Woodruff
23	76–0880	1	Commutator ASM

Ref. No.	Part No.	Qty.	Description
☆23:1		1	Seal–Commutator
☆23:2		1	Commutator
☆23:3		1	Ring–Commutator

☆ Not serviced separately

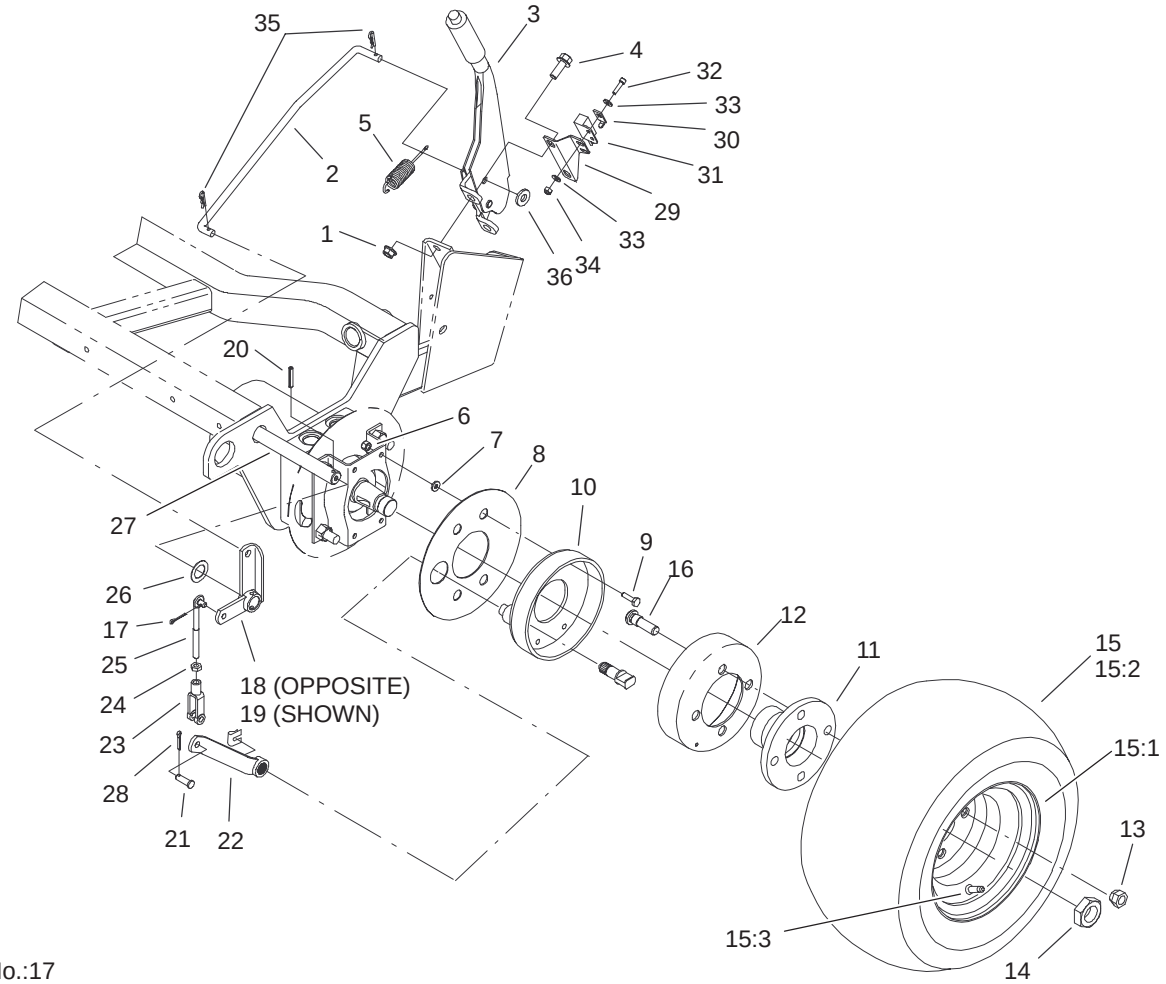


Sheet No.:A6
T–3714

Wheel Motor Assembly No. 93–6888

Ref. No.	Part No.	Qty.	Description
1	76–0860	1	Shaft–Coupling
2	76–0850	1	Bearing–Thrust
3	76–0960	1	Link–Drive
4	94–3662	7	Screw–Cap, HH
5	3257–42	1	Key–Woodruff
6	76–0870	2	Plate–Wear
7	76–0840	1	Manifold
8	76–0890	1	End Cover ASM
8:1	353–990	2	Plug
8:1:1	237–78	1	O–Ring
☆8:3		2	Spring
☆8:4		1	Ball
☆8:5		1	Valve–Shuttle
9	76–0970	1	Set–Rotor
☆9:1		1	Rotor
☆9:2		7	Vane
☆9:3		1	Stator
10	76–0880	1	Commutator ASM
☆10:1		1	Seal–Commutator
☆10:2		1	Commutator
☆10:3		1	Ring–Commutator
11	76–0800	1	Seal Kit
☆11:1		1	Seal–Dirt & Water
☆11:2		1	Washer–Back–Up
☆11:3		5	Ring–Seal
☆11:4		1	Washer–Back–Up
☆11:5		1	Seal–Inner
☆11:6		1	Seal–Commutator
12	76–0810	1	Housing ASM
☆12:1		1	Bearing
☆12:2		1	Housing
☆12:3		2	Washer–Thrust
☆12:4		1	Bearing–Thrust
☆12:5		1	Bearing
13	237–78	2	O–Ring

☆ Not serviced separately



Sheet No.:17

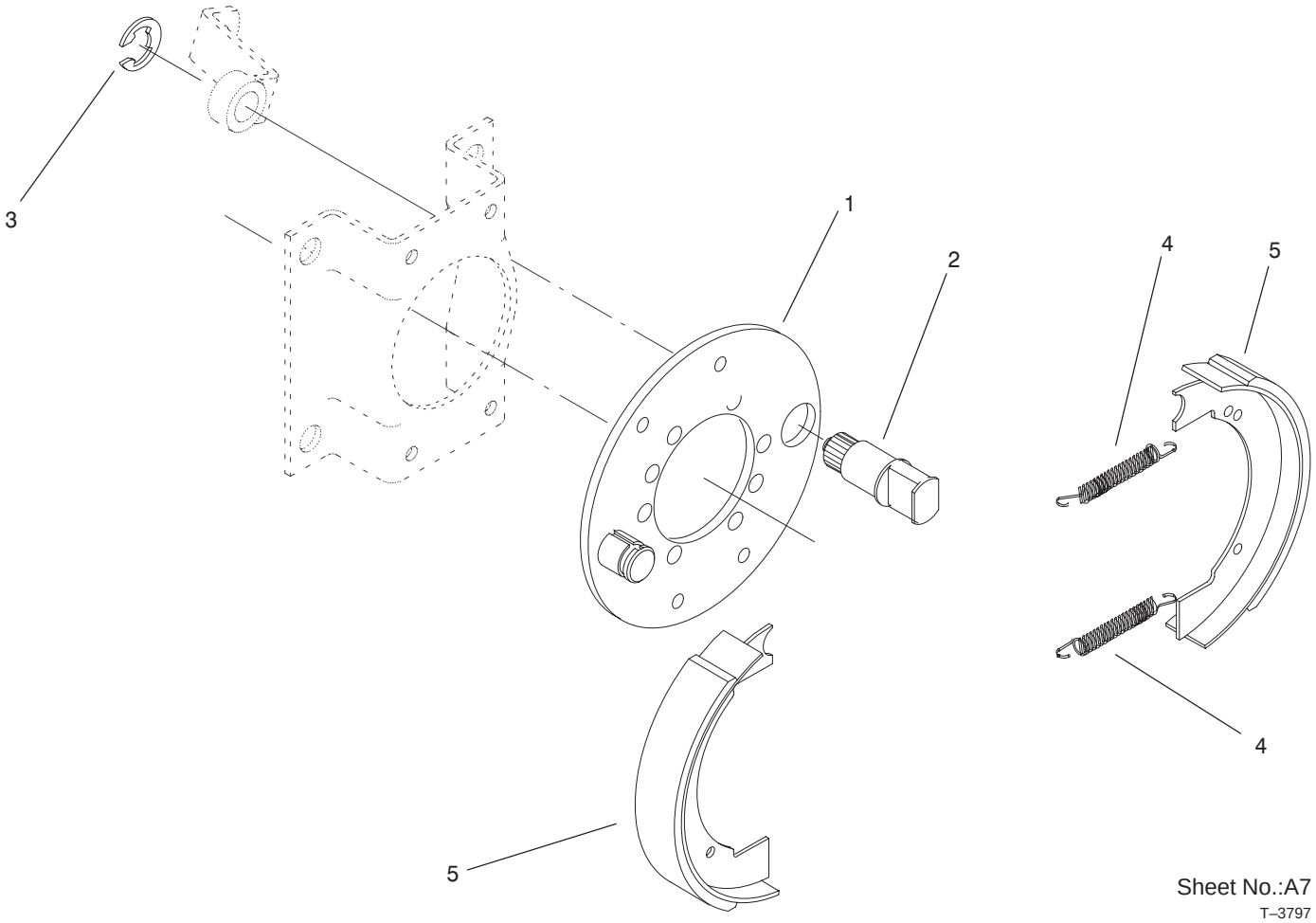
Front Wheel and Brake Assembly

Ref. No.	Part No.	Qty.	Description
1	3290–357	2	Nut–HHF
2	104–3907	1	Rod–Brake
3	104–3903	1	Lever–Brake, Parking
4	3234–11	2	Screw–HHF
5	104–4010	1	Spring–Extension
6	3296–42	8	Nut–Lock
7	3256–16	8	Washer–Flat
8	83–9340	2	Shield–Brake, Grass
9	321–5	8	Screw–HH
10	104–7705	2	Brake ASM
11	93–6838–03	2	Hub–Wheel
12	10–6850	2	Drum–Brake
13	242–50	8	Nut–Lug
14	26–3790	2	Nut–Lock
☆15		2	Front Tire/Wheel ASM
15:1	93–6881	1	Rim ASM
15:2	99–4506	1	Tire–Mate, Turf
15:3	232–27	1	Stem–Valve
16	85–6540	8	Stud–Drive
17	3272–6	2	Pin–Cotter
18	83–9310	1	RH Brake Lever ASM
19	104–3928	1	LH Brake Lever ASM
20	32121–6	2	Pin–Roll
21	283–1	2	Pin–Yoke
22	93–6850	2	Lever–Brake
23	282–2	2	Yoke

Ref. No.	Part No.	Qty.	Description
24	3220–2	2	Nut
25	84–1990	2	Rod–Adjusting
26	3–6498	2	Washer–Thrust
27	83–9330	1	Shaft–Brake
28	3272–10	2	Pin–Cotter
29	104–4052–03	1	Bracket–Switch, Brake
30	100–4872	1	Plate–Switch, Neutral
31	100–1270	1	Switch–Proximity
32	3274–14	1	Screw–HSH
33	3256–14	2	Washer–Flat
34	3296–2	1	Nut–Lock
35	3290–307	2	Pin–Hair
36	3256–24	1	Washer–Flat

☆ Not serviced separately

3328–295



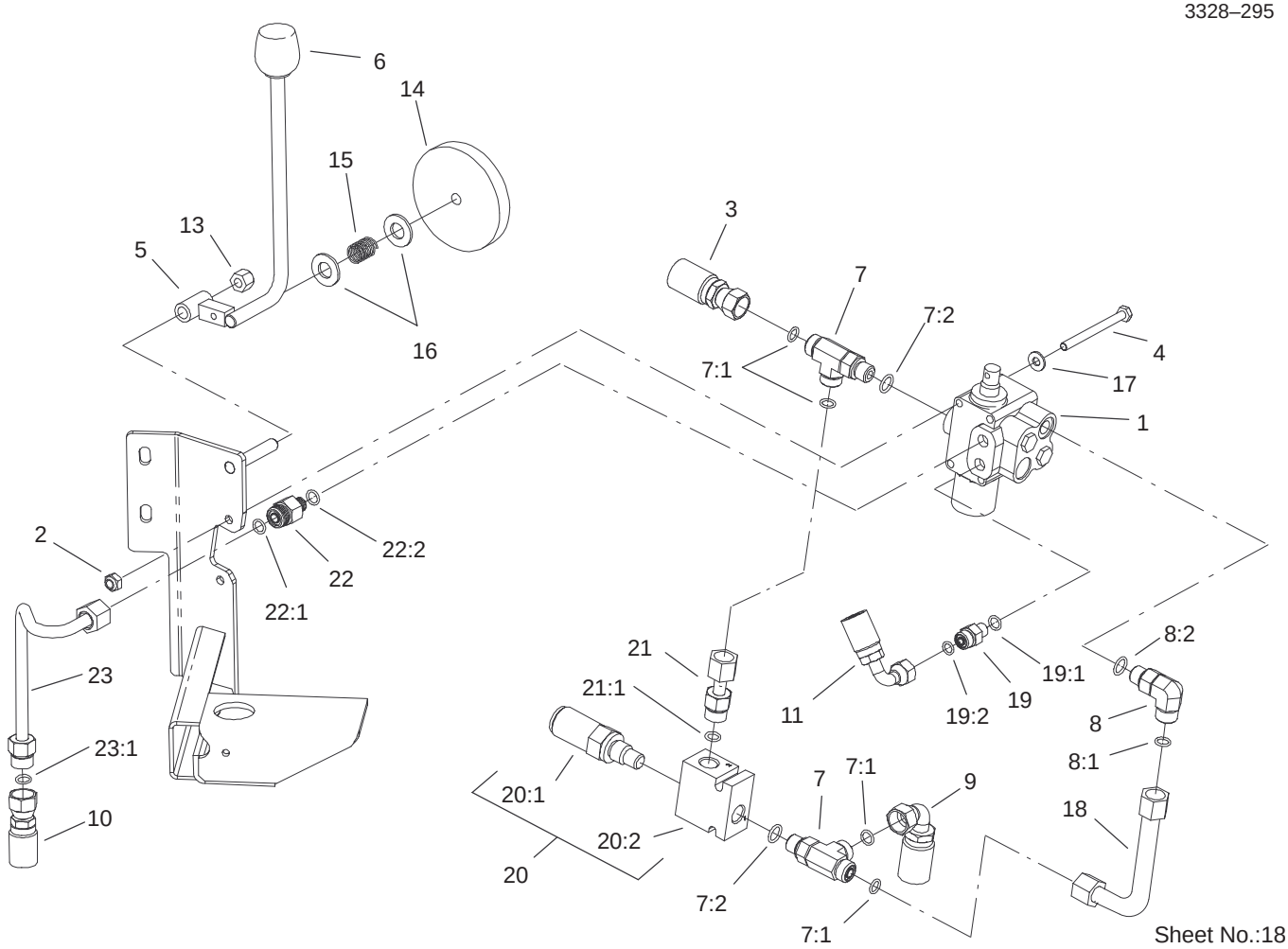
Sheet No.:A7

T–3797

Brake Assembly No. 104–7705

Ref. No.	Part No.	Qty.	Description
1	70–9870	1	Plate–Backing
2	104–7707	1	Shaft–Cam, Brake
3	104–7706	1	E–Ring, Bowed
4	70–9880	2	Spring–Return
5	70–9840	2	Shoe–Brake

Ref. No.	Part No.	Qty.	Description

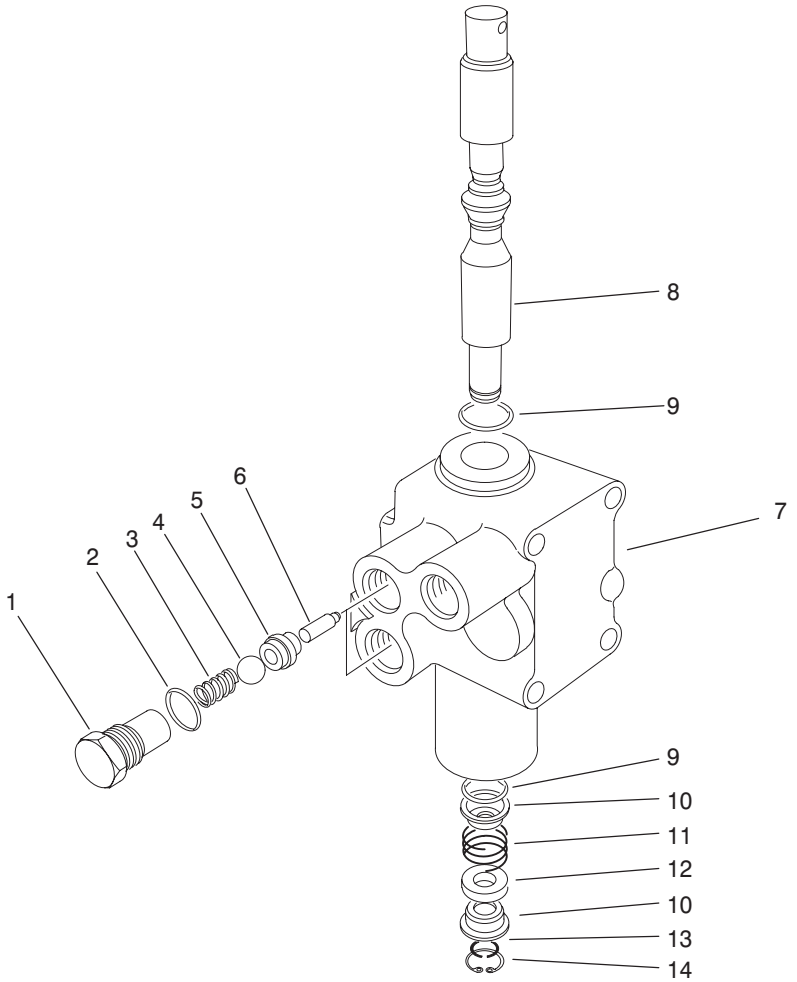


Sheet No.:18

Hydraulic Valve Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	43–1950	1	Valve–Control, HYD
2	3296–16	2	Nut–Lock, NI
3	104–4081	1	Hose ASM
4	321–23	2	Screw–HH
5	85–5160–03	1	Lever–Valve
6	233–37	1	Knob
7	340–86	2	Fitting–Tee, HYD
7:1	237–22	2	O–Ring
7:2	237–42	1	O–Ring
8	340–77	1	Fitting–HYD, 90°
8:1	237–22	1	O–Ring
8:2	237–42	1	O–Ring
9	104–4082	1	Hose ASM
10	104–4001	1	Hose ASM
11	104–4083	1	Hose ASM
13	3296–39	1	Nut–Lock, NI
14	94–5119	1	Sponge
15	65–9940	1	Spring
16	3256–26	2	Washer–Flat
17	3256–22	2	Washer–Flat
18	93–6922	1	HYD Tube ASM
19	340–92	1	Fitting–HYD, Straight
19:1	237–78	1	O–Ring
19:2	237–21	1	O–Ring
20	93–6921	1	Valve–Relief
20:1	94–3607	1	Cartridge–Valve, Relief

Ref. No.	Part No.	Qty.	Description
20:2	94–3608	1	Body–Valve, Relief
21	93–6923	1	HYD Tube ASM
21:1	237–42	1	O–Ring
22	340–88	1	Adapter
22:1	237–22	1	O–Ring
22:2	237–78	1	O–Ring
23	104–4085	1	HYD Tube ASM
23:1	237–22	1	O–Ring



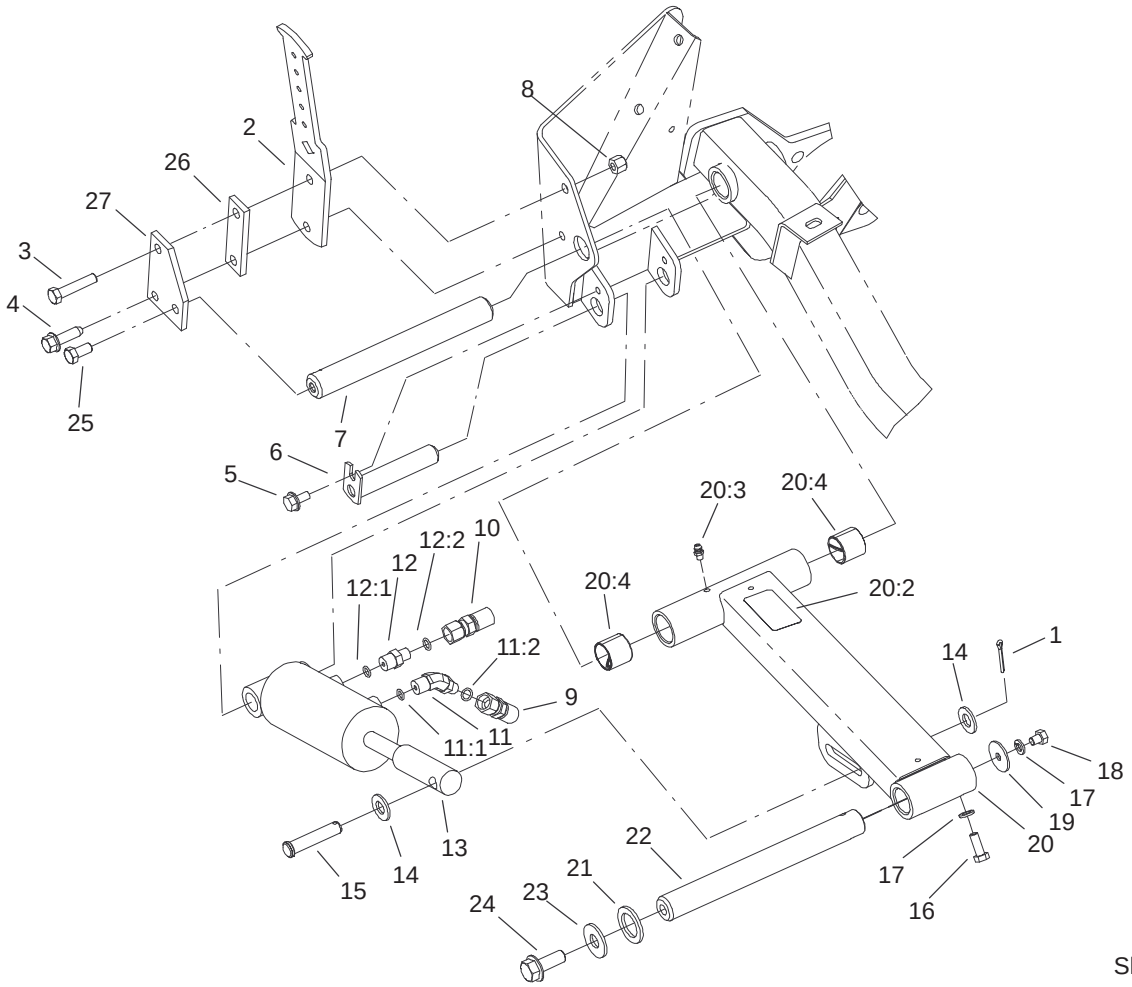
Sheet No.:A8
T–3720

Hydraulic Control Valve No. 43–1950

Ref. No.	Part No.	Qty.	Description
1	22–8330	2	Plug
2	237–42	2	O–Ring
3	22–8340	2	Spring
4	22–8350	2	Ball
5	22–8370	2	Seat–Valve
6	22–8360	2	Pin
☆7		1	Body
8	22–8420	1	Spool
9	22–8500	2	O–Ring
10	22–8380	2	Retainer
11	22–8410	1	Spring
12	23–3030	1	Spacer
13	22–8480	1	Ring–Snap
14	22–8490	1	Ring–Snap

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

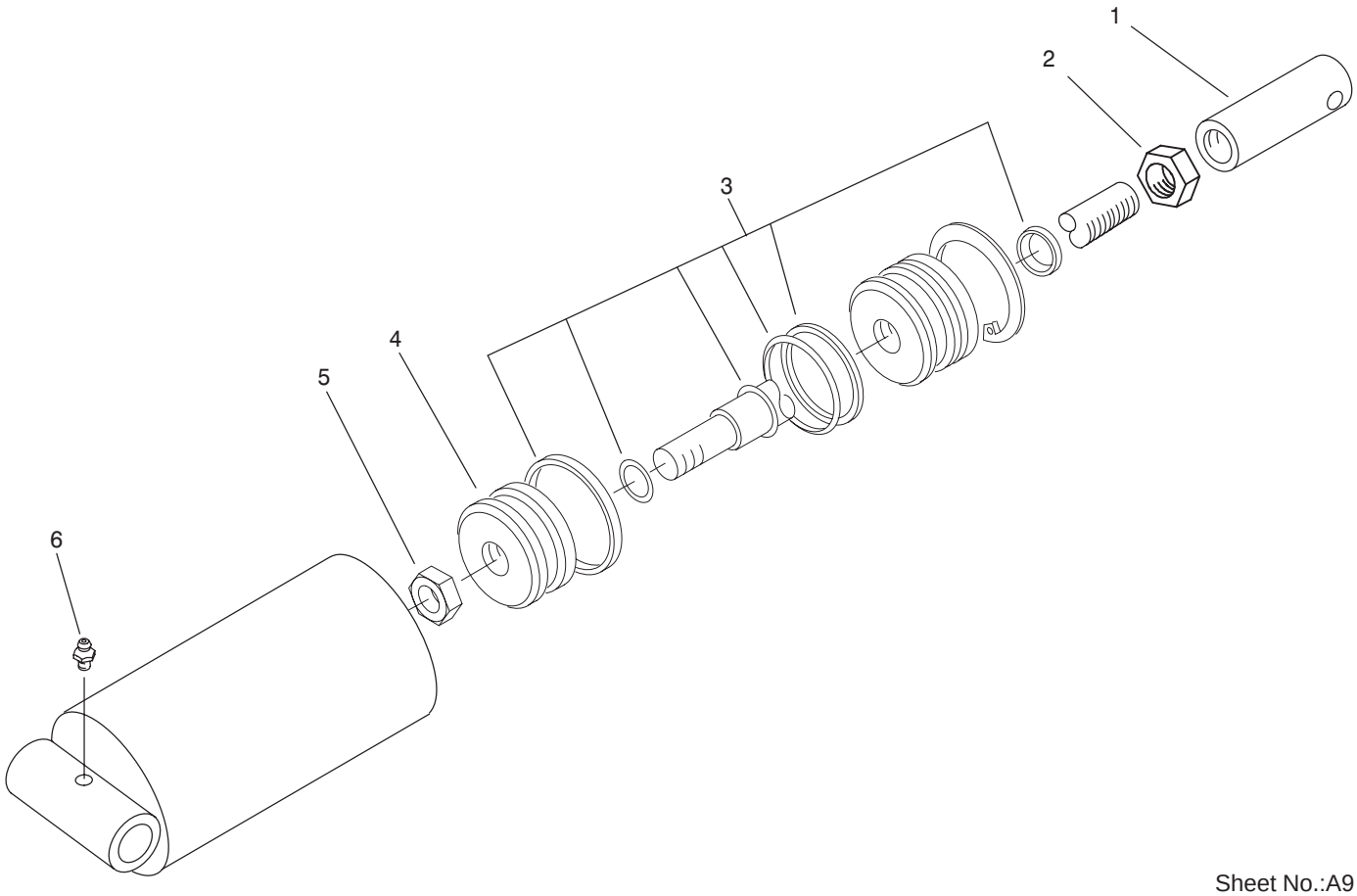


Sheet No.:19

Rear Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	3272–11	1	Pin–Cotter
2	92–1818–01	1	Arm–Spring, Tension
3	323–9	1	Screw–HH
4	32144–109	1	Screw
5	32144–14	1	Screw–HWH
6	93–6893	1	Pin–Pivot, Ram
7	92–1812	1	Shaft–Pivot, Lift
8	3296–39	1	Nut–Lock, NI
9	104–4002	1	Hose ASM
10	94–5008	1	Hose ASM
11	340–103	1	Fitting–HYD, 45°
11:1	237–78	1	O–Ring
11:2	237–21	1	O–Ring
12	340–92	1	Fitting–HYD, Straight
12:1	237–78	1	O–Ring
12:2	237–21	1	O–Ring
13	93–6869	1	HYD Cylinder ASM
14	3256–26	2	Washer–Flat
15	93–6926	1	Pin–Clevis
16	322–4	1	Screw–HH
17	3253–4	2	Washer–Lock
18	322–26	1	Screw–HH
19	3256–57	1	Washer–Flat
20	94–3635	1	Center Lift Arm ASM
20:2	93–6696	1	Decal–Spring, Loaded
20:3	302–5	1	Fitting–Grease

Ref. No.	Part No.	Qty.	Description
20:4	3–0348	2	Bushing
21	256–115	1	Washer–Thrust
22	99–2338	1	Shaft–Pivot
23	3256–6	1	Washer–Flat
24	3234–32	1	Screw–HHF
25	323–4	1	Screw–HH
26	98–3445	1	Spacer
27	98–3446	1	Plate–Reinforcement



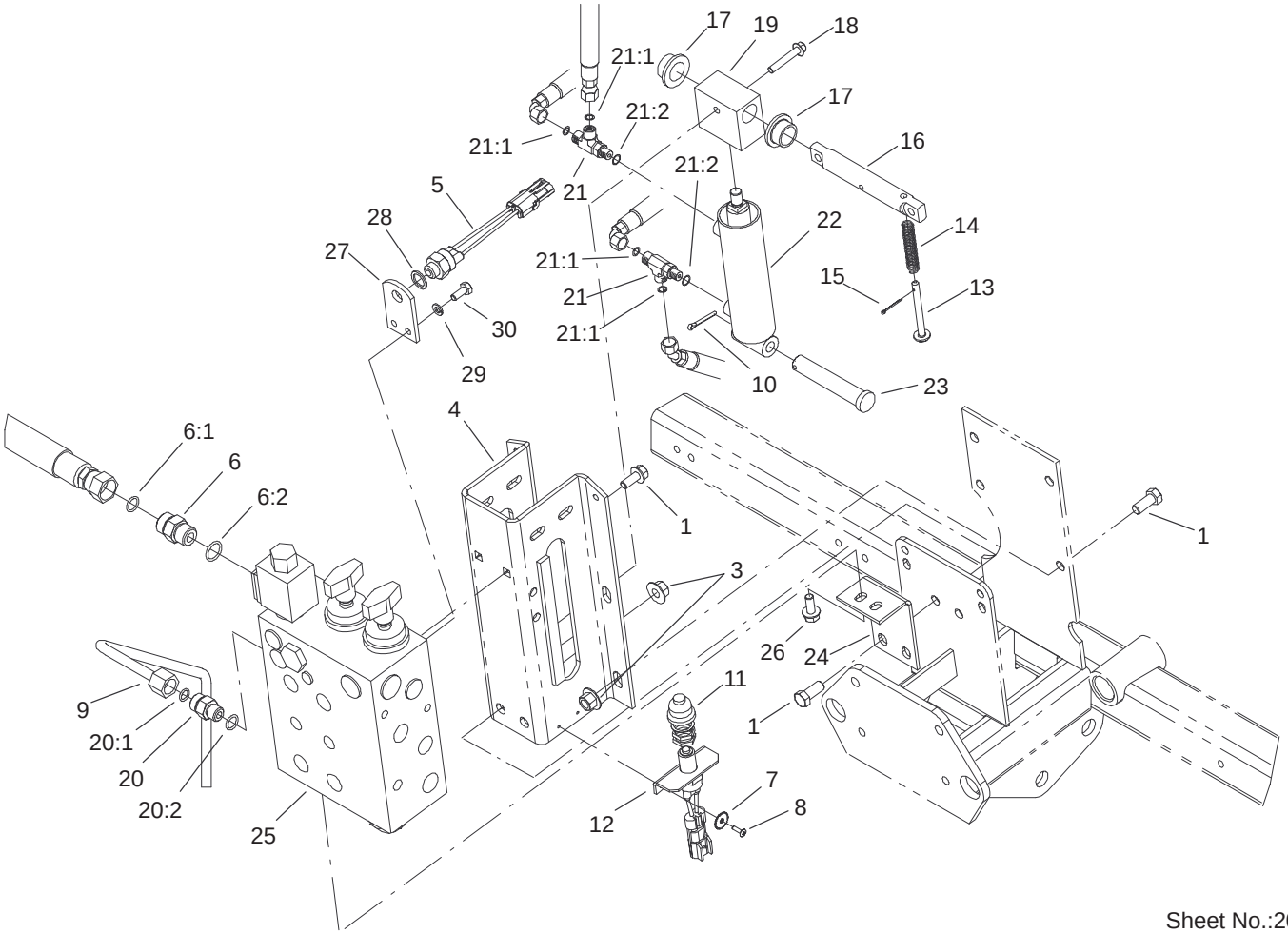
Sheet No.:A9
T–3715

Hydraulic Cylinder Assembly No. 93–6869

Ref. No.	Part No.	Qty.	Description
1	94–3617	1	Clevis–Cylinder
2	32152–10	1	Locknut
3	94–3619	1	Seal Kit
☆4		1	Piston
☆5		1	Nut–Lock
6	302–58	1	Fitting–Grease

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

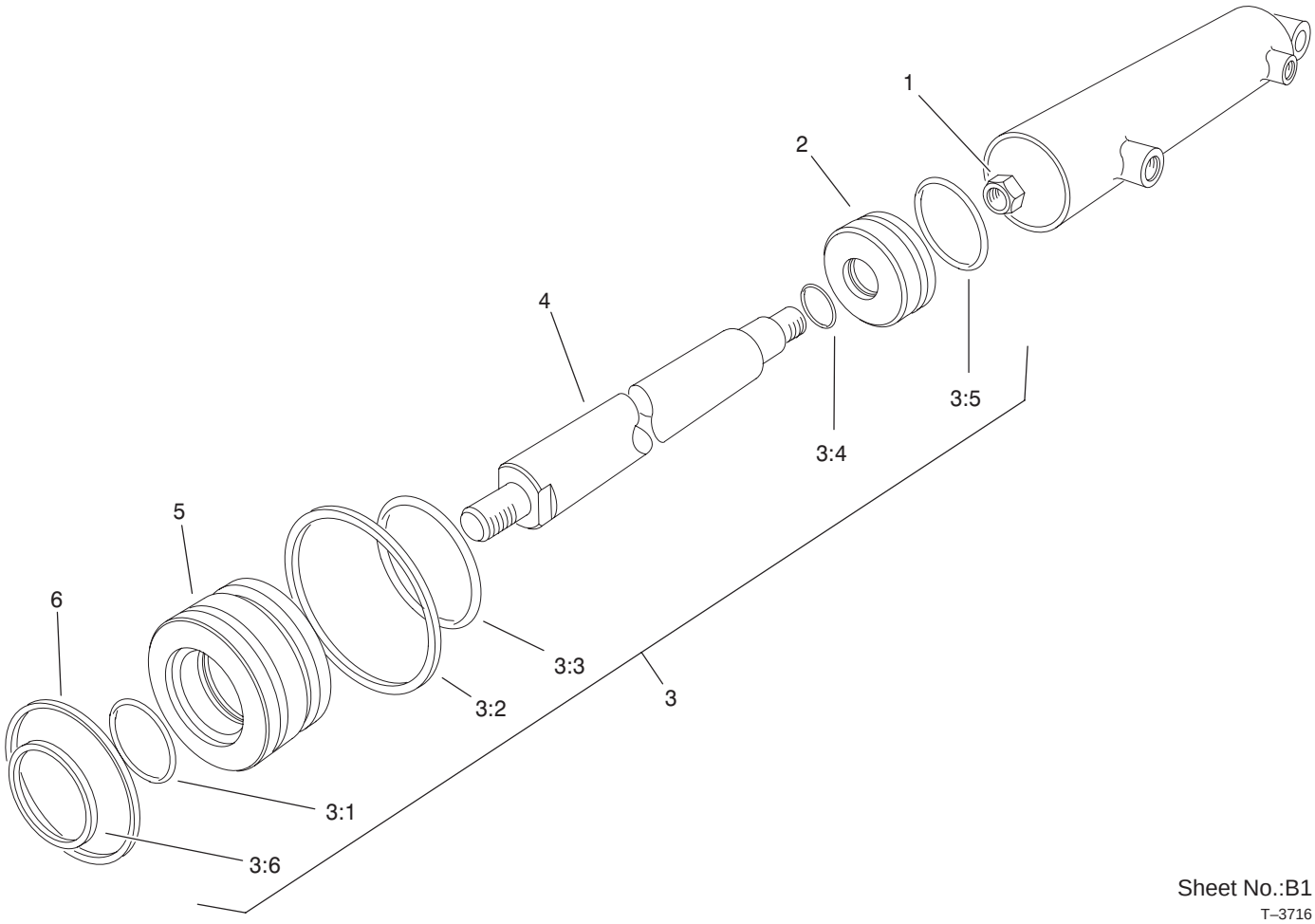


Sheet No.:20

Rear Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	3234–25	6	Bolt–HF
3	32128–43	6	Nut–Flange
4	104–3946–03	1	Cylinder Support ASM
5	72–4320	1	Switch
6	340–4	1	Adapter
6:1	237–30	1	O–Ring
6:2	237–79	1	O–Ring
7	3254–9	2	Washer–Lock/Int
8	3249–3	2	Screw
9	104–4050	1	HYD Tube ASM
10	3272–11	1	Pin–Cotter
11	94–3429	1	Switch–Ball
12	94–3424	1	Bracket–Mount, Switch
13	94–5010	1	Pin–Actuator, Switch
14	94–5011	1	Spring–Compression
15	3272–4	1	Pin–Cotter
16	72–4190	1	Pin–Guide, Cylinder
17	84–8440	2	Bushing
18	321–43	1	Capscrew
19	61–2450	1	Hub–Lift
20	340–2	1	Fitting–HYD, Straight
20:1	237–22	1	O–Ring
20:2	237–42	1	O–Ring
21	340–86	2	Fitting–Tee, HYD
21:1	237–22	2	O–Ring

Ref. No.	Part No.	Qty.	Description
21:2	237–42	1	O–Ring
22	94–5031	1	Cylinder–Lift, HYD
23	283–78	1	Pin–Clevis
24	93–6733–03	1	Bracket–Mount, Valve
25	104–3995	1	Manifold Block ASM
26	3234–5	3	Screw
27	98–8199	1	Bracket–Switch
28	3256–76	1	Washer–Flat
29	3253–3	2	Washer–Lock
30	329–3	2	Screw–HH



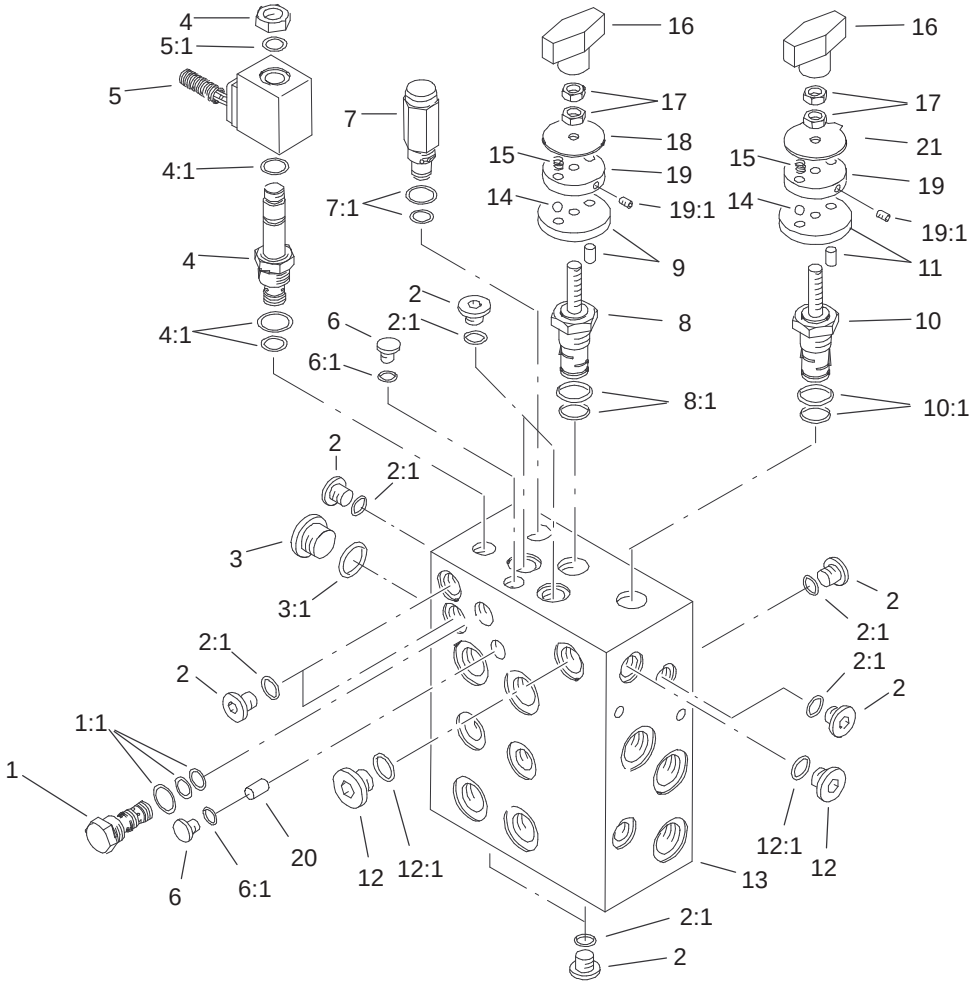
Sheet No.:B1
T–3716

Hydraulic Lift Cylinder Assembly No. 94–5031

Ref. No.	Part No.	Qty.	Description
☆1		1	Nut–Lock
☆2		1	Piston
3	94–3614	1	Seal Kit
☆3:1		1	O–Ring
☆3:2		1	Washer–Backup
☆3:3		1	O–Ring
☆3:4		1	O–Ring
☆3:5		1	Uniring
☆3:6		1	Seal–Dust
☆4		1	Shaft
☆5		1	Head
6	94–3612	1	Ring–Retaining

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



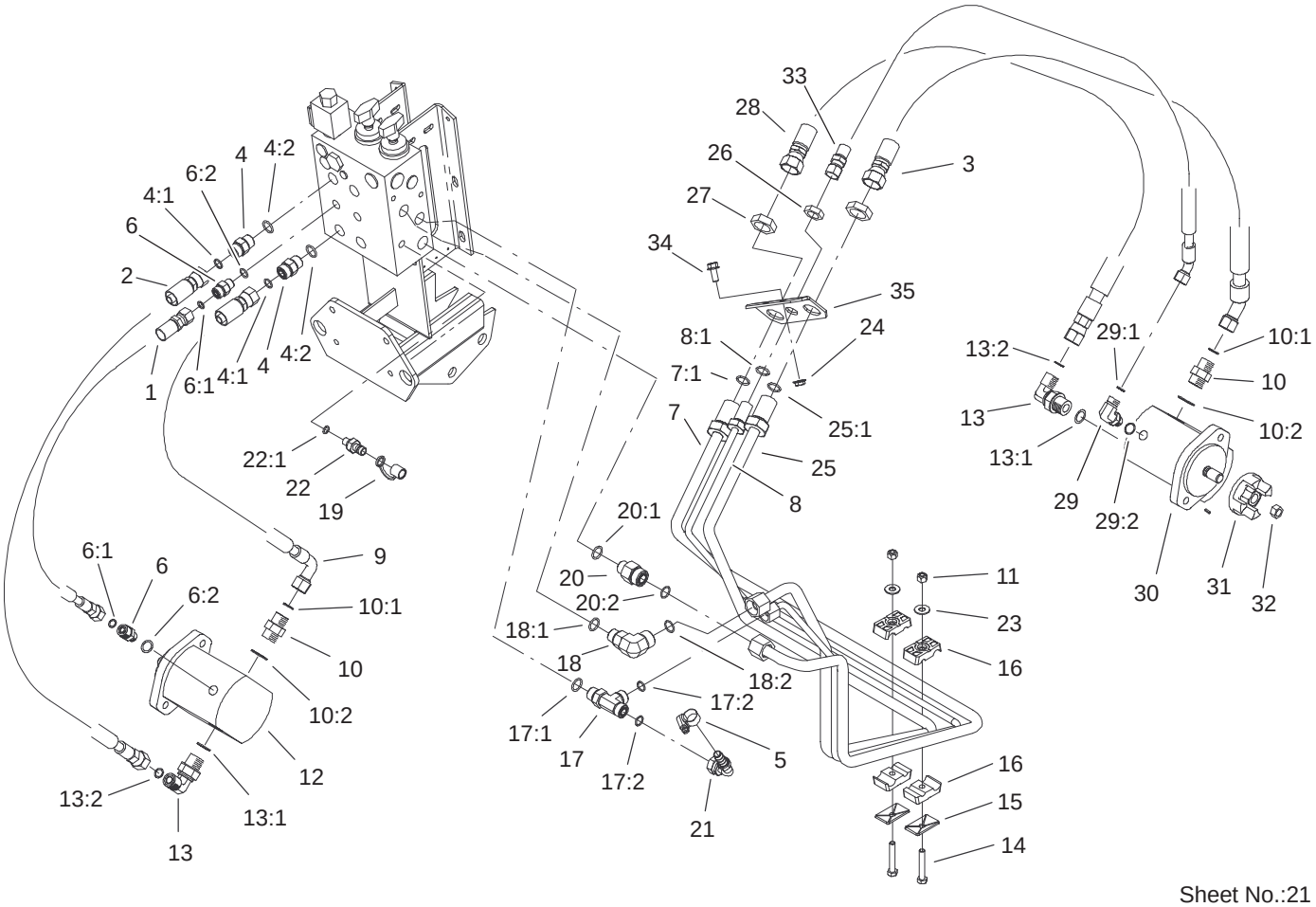
Sheet No.:B2

Manifold Block Assembly No. 104–3995

Ref. No.	Part No.	Qty.	Description
1	95–5634	1	Cartridge–Logic, Spool
1:1	95–5641	1	Seal Kit
2	353–990	8	Plug
2:1	237–78	1	O–Ring
3	353–988	1	Plug–Hex, Hollow
3:1	237–79	1	O–Ring
4	93–7494	1	Cartridge
4:1	75–2080	1	Seal Kit
5	83–2010	1	Coil–Valve
5:1	94–5438	2	Seal–Solenoid
6	353–991	2	Plug–Hex, Hollow
6:1	237–156	1	O–Ring
7	94–3655	1	Valve–Relief
7:1	75–2080	1	Seal Kit
8	94–3659	1	Control–Flow, Rotary
8:1	75–2080	1	Seal Kit
9	94–5025	1	Plate–Locating
10	94–3657	1	Spool ASM
10:1	94–3661	1	4–Way Seal Kit
11	94–5021	1	Plate–Locating
12	353–989	3	Plug–Hex, Hollow
12:1	237–42	1	O–Ring
☆13		1	Body–Manifold
14	255–13	4	Ball–Steel, Stainless
15	94–5027	4	Spring
16	94–5020	2	Knob ASM

Ref. No.	Part No.	Qty.	Description
17	3218–1	4	Nut–Jam
18	94–5026	1	Plate–Indicator
19	94–5023	2	Plate–Detent
19:1	3245–36	1	Screw–HSH
20	75–2070	1	Plug–Orifice
21	99–3543	1	Plate–Indicator

☆ Not serviced separately

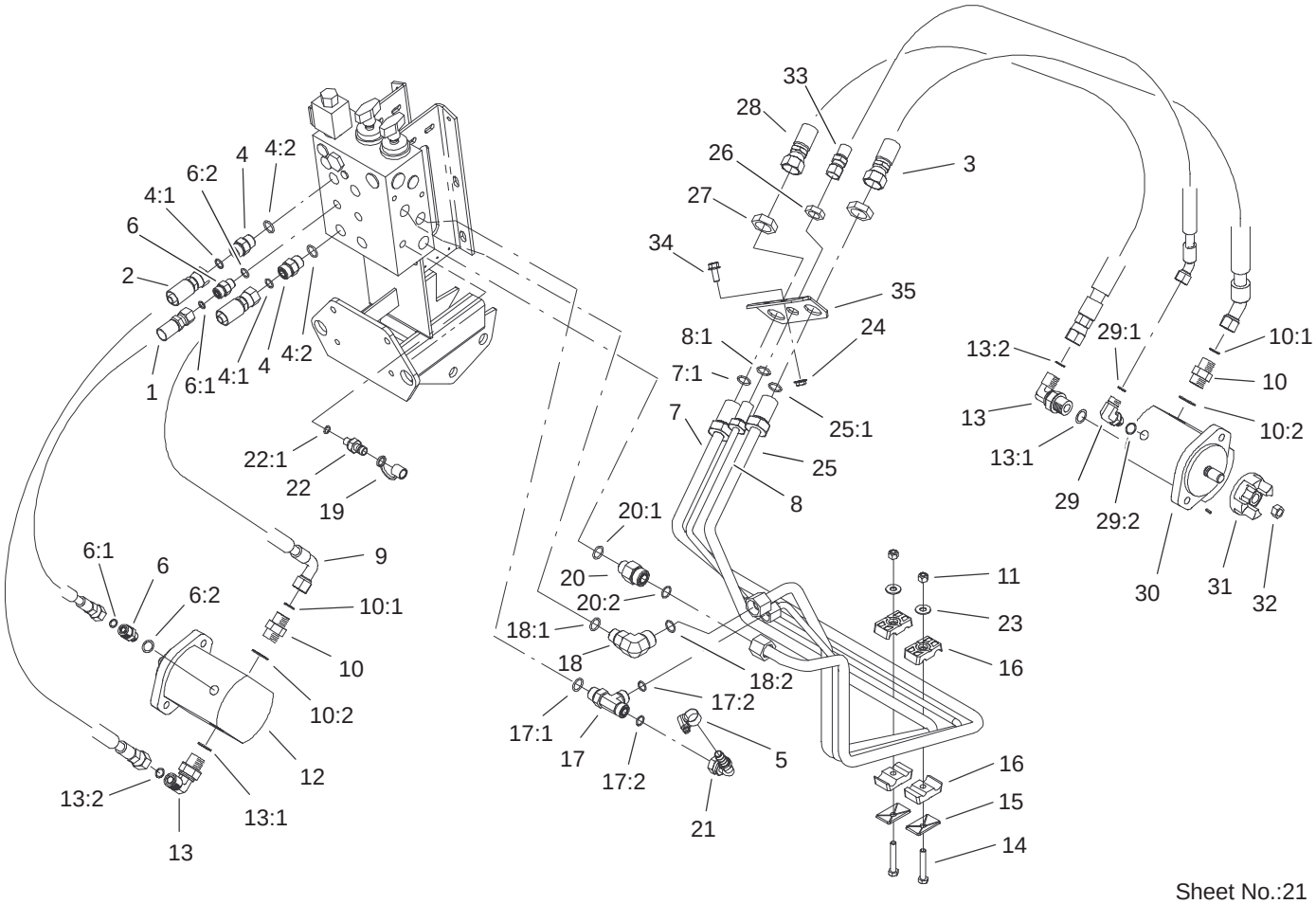


Sheet No.:21

Reel Motor Assembly

Ref. No.	Part No.	Qty.	Description
1	94–5986	2	Hose ASM
2	94–5987	2	Hose ASM
3	94–5129	1	Hose ASM
4	340–4	4	Adapter
4:1	237–30	1	O–Ring
4:2	237–79	1	O–Ring
5	2412–36	1	Clamp–Hose
6	340–2	4	Fitting–HYD, Straight
6:1	237–22	1	O–Ring
6:2	237–42	1	O–Ring
7	104–3950	1	Tube ASM
7:1	237–65	1	O–Ring
8	104–3951	1	Tube ASM
8:1	237–30	1	O–Ring
9	94–5985	2	Hose ASM
10	340–6	3	Fitting–HYD, Straight
10:1	237–30	1	O–Ring
10:2	237–80	1	O–Ring
11	3296–29	2	Nut–Lock, NI
12	93–6972	2	Motor–Gear
13	340–105	3	Fitting–90°
13:1	237–80	1	O–Ring
13:2	237–30	1	O–Ring
14	322–10	2	Screw–HH
15	69–9760	2	Coverplate
16	56–7970	4	Clamp–Tube

Ref. No.	Part No.	Qty.	Description
17	340–109	1	Fitting–HYD, Tee
17:1	237–79	1	O–Ring
17:2	237–30	2	O–Ring
18	340–153	1	Fitting–HYD
18:1	237–79	1	O–Ring
18:2	237–151	1	O–Ring
19	354–79	1	Cap–Dust, Yellow
20	340–155	1	Fitting–HYD
20:1	237–79	1	O–Ring
20:2	237–151	1	O–Ring
21	93–6803	1	Fitting–90°
22	354–77	1	Fitting–Quick
22:1	237–78	1	O–Ring
23	3256–3	2	Washer–Flat
24	32128–44	2	Nut
25	104–3949	1	Tube ASM
25:1	237–65	1	O–Ring
26	340–70	1	Nut–Lock
27	340–74	2	Locknut–Bulkhead
28	93–6790	1	Hose–HYD
29	340–77	1	Fitting–HYD, 90°
29:1	237–22	1	O–Ring
29:2	237–42	1	O–Ring
30	93–6975	1	Motor–Gear
31	93–8823	3	Coupler–Motor, Reel
32	32128–48	3	Nut–HHF

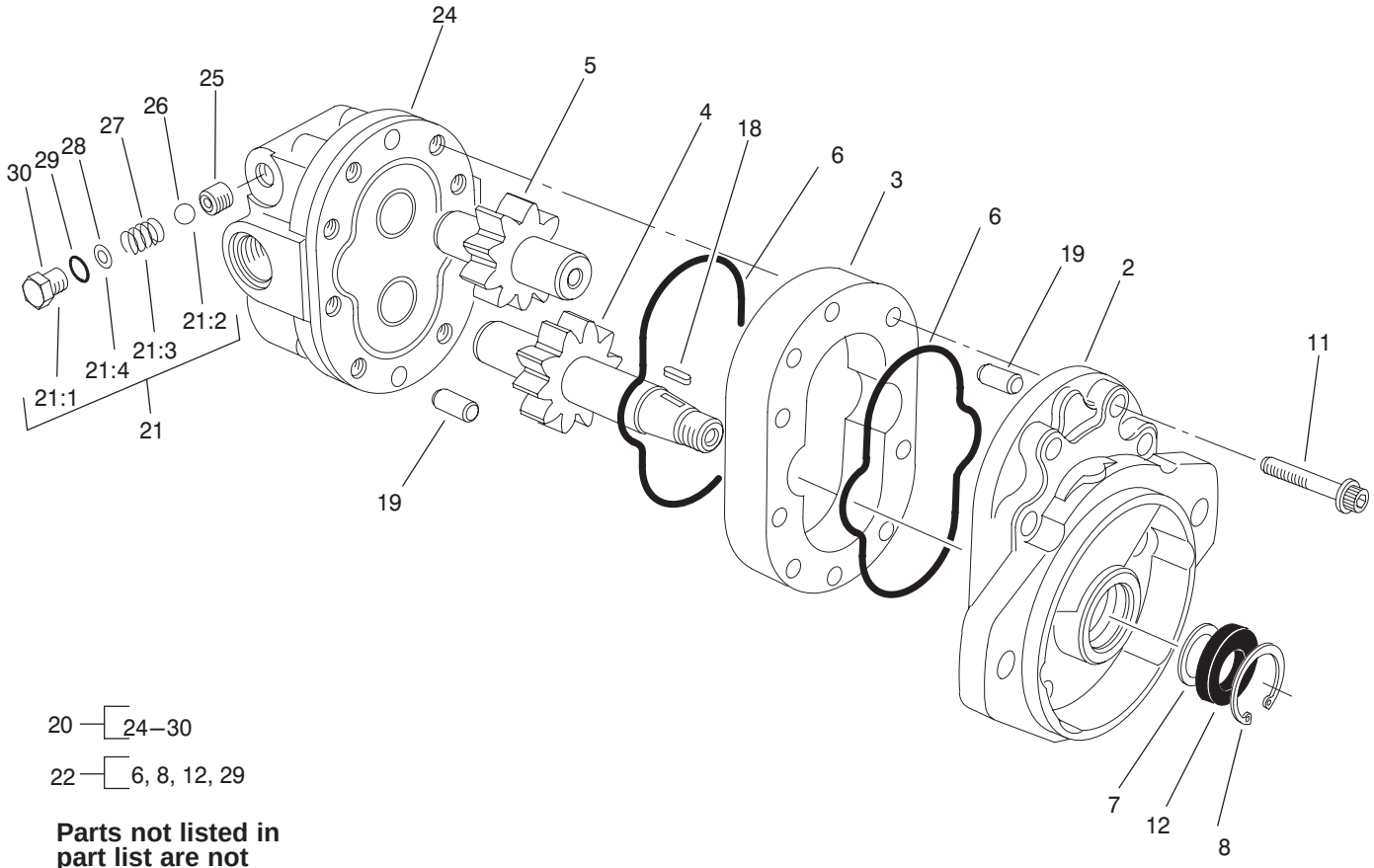


Sheet No.:21

Reel Motor Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
33	93–6789	1	Hose–HYD
34	3234–5	2	Screw
35	93–6796–01	1	Bracket–Bulkhead

Ref. No.	Part No.	Qty.	Description



20 — 24–30

22 — 6, 8, 12, 29

Parts not listed in part list are not serviced separately

Sheet No.:B3

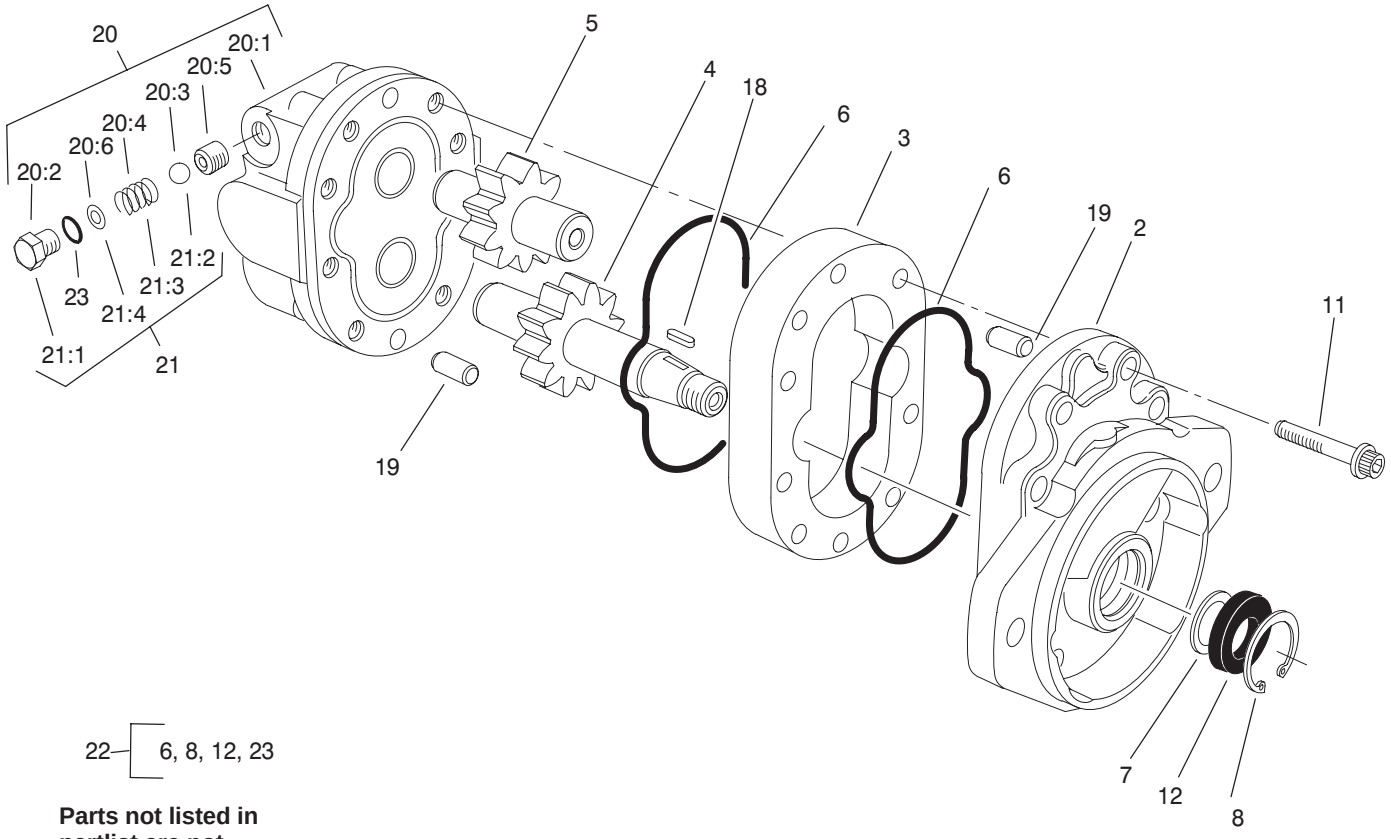
T–3718

Gear Motor Assembly No. 93–6972

Ref. No.	Part No.	Qty.	Description
2	66–5730	1	Front Plate ASM
3	94–3603	1	Motor Body ASM
4	94–3602	1	Drive Gear ASM
5	94–3601	1	Idler Gear ASM
6	59–8420	2	Ring
7	60–5890	1	Washer
8	59–8320	1	Ring–Retaining
11	94–3600	8	Capscrew
12	66–5710	1	Seal–Shaft
18	94–3606	1	Key
19	42–2010	2	Pin–Dowel
20	94–3604	1	Backplate ASM
21	92–9260	1	Relief Valve Kit
☆21:1		2	Plug
☆21:2		2	Ball
☆21:3		2	Spring
☆21:4		2	Shim
22	93–1413	1	Seal Kit

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



Parts not listed in partlist are not serviced separately.

Sheet No.:B4

T–3569

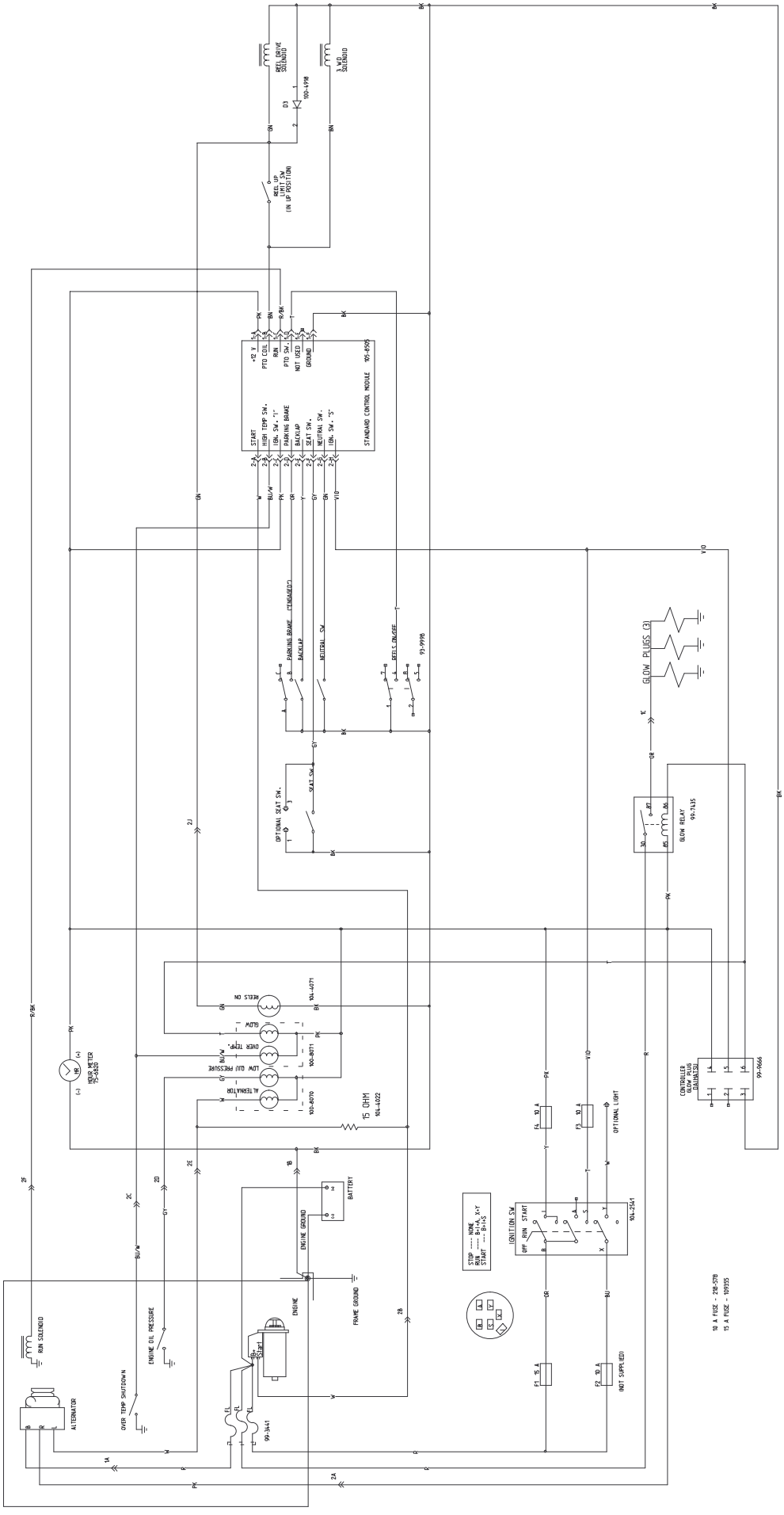
Gear Motor Assembly No. 93–6975

Ref. No.	Part No.	Qty.	Description
2	66–5730	1	Front Plate ASM
3	94–3603	1	Motor Body ASM
4	94–3602	1	Drive Gear ASM
5	94–3601	1	Idler Gear ASM
6	59–8420	2	Ring
7	60–5890	1	Washer
8	59–8320	1	Ring–Retaining
11	94–3600	8	Capscrew
12	66–5710	1	Seal–Shaft
18	94–3606	1	Key
19	42–2010	2	Pin–Dowel
20	94–3605	1	Backplate ASM
☆20:1		1	Backplate
☆20:2		2	Plug
☆20:3		2	Ball
☆20:4		2	Spring
☆20:5		2	Seat
☆20:6		2	Shim
21	92–9260	1	Relief Valve Kit
☆21:1		2	Plug
☆21:2		2	Ball
☆21:3		2	Spring
☆21:4		2	Shim
22	93–1413	1	Seal Kit

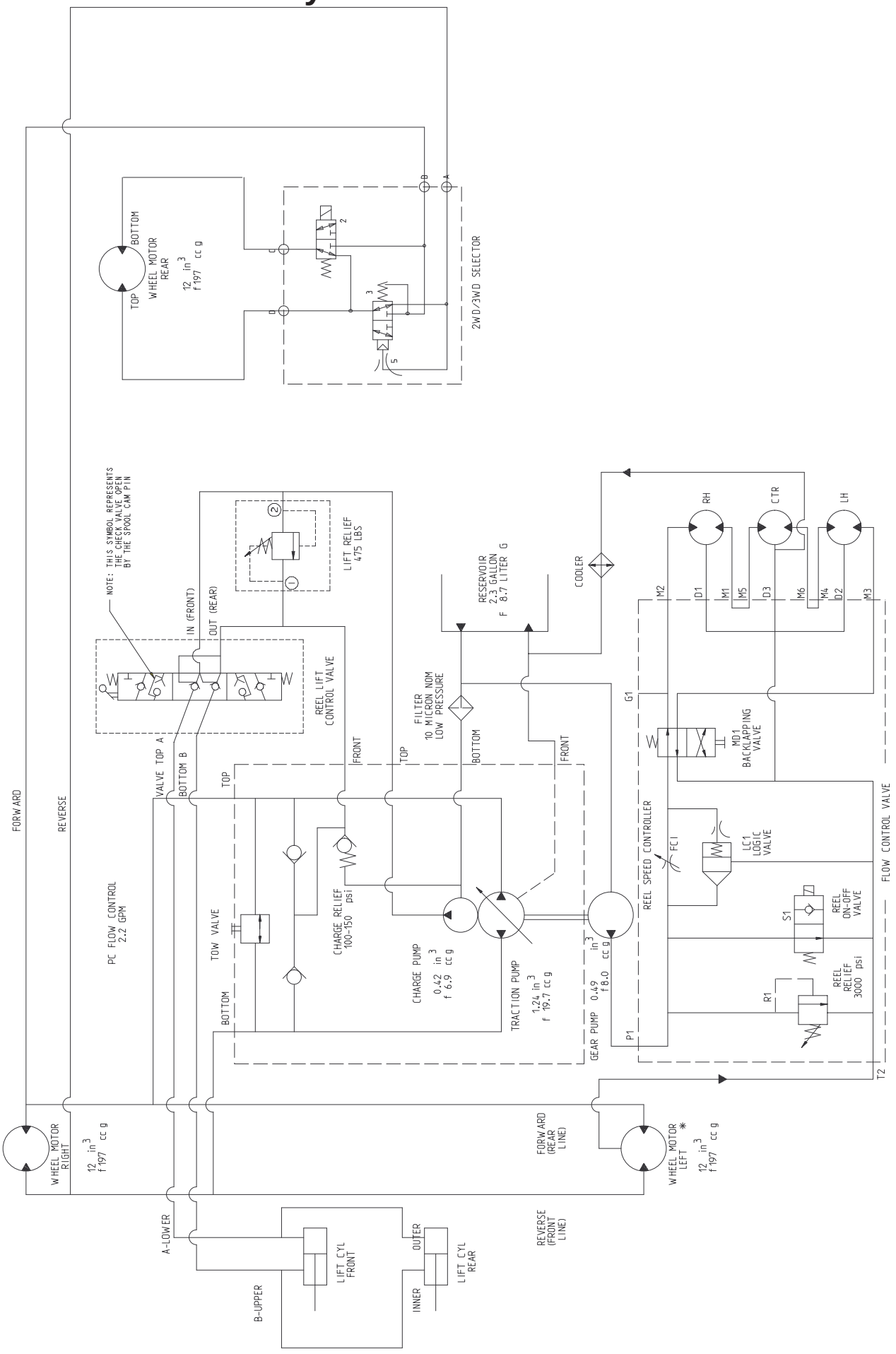
Ref. No.	Part No.	Qty.	Description

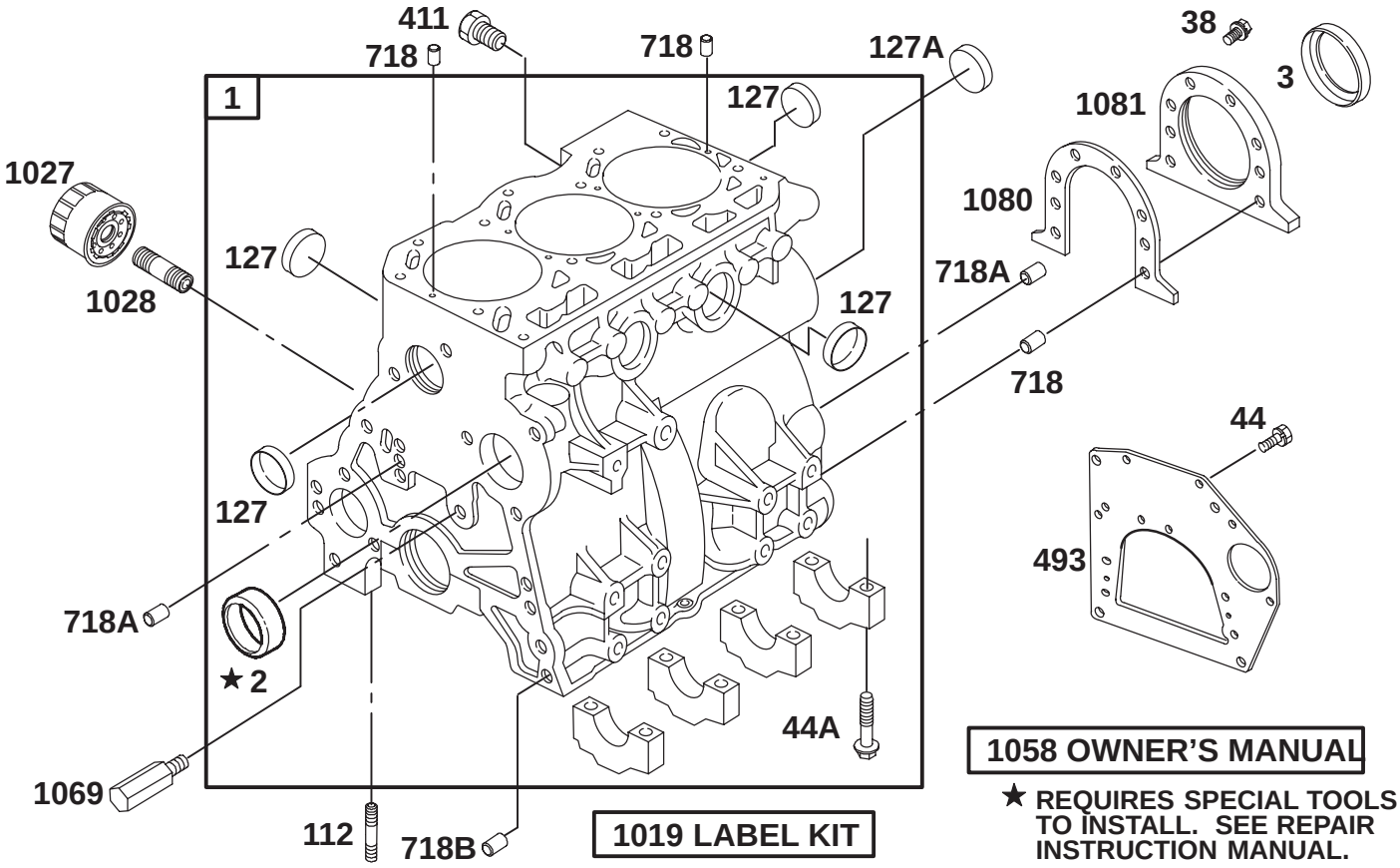
☆ Not serviced separately

Electrical Schematic



Hydraulic Schematic



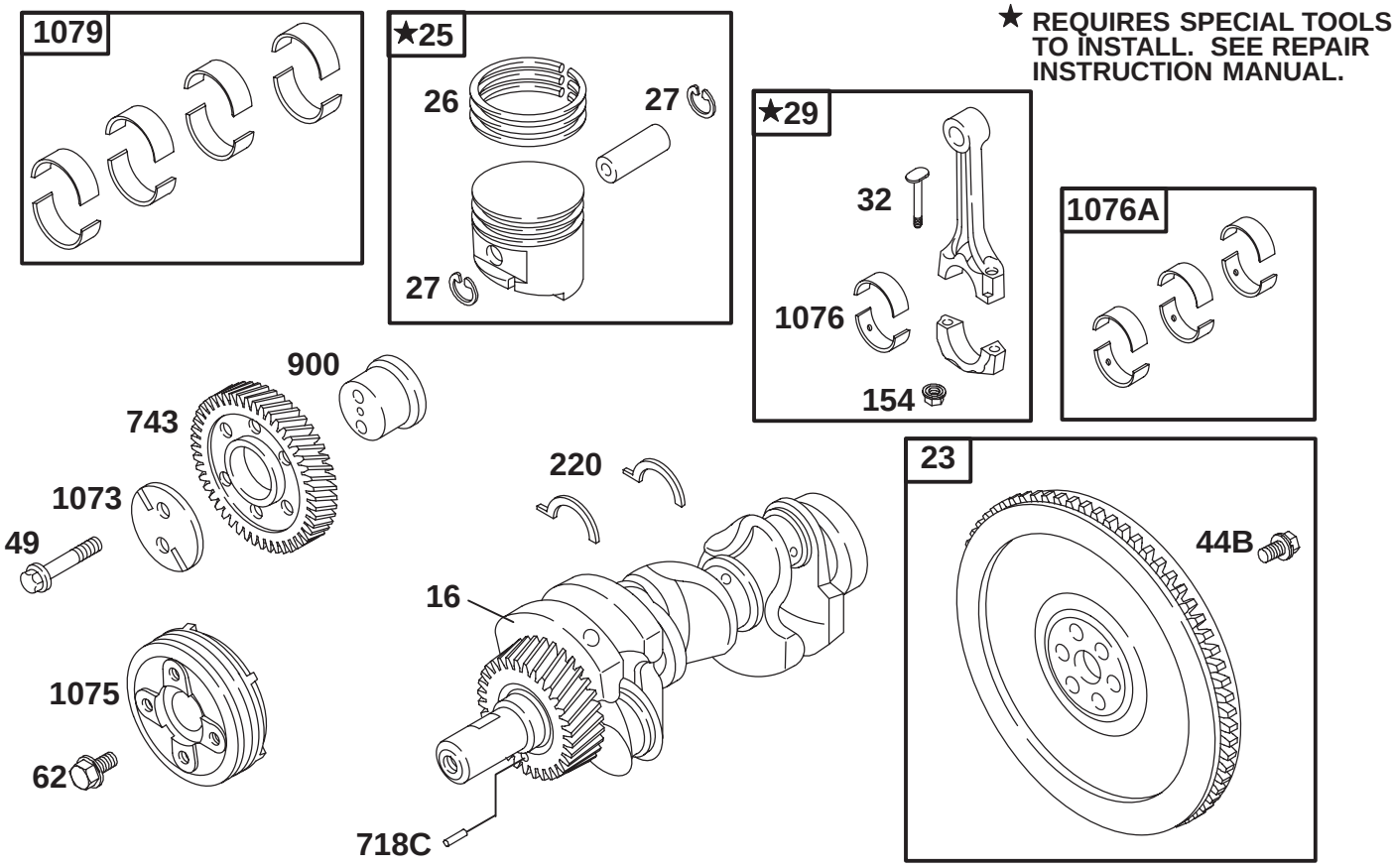


Sheet No.:3

Cylinder Assembly

Ref. No.	Part No.	Qty.	Description
01	100–6401	1	Cylinder ASM
02	99–9002	1	Bushing
03	99–9003	1	Seal–Oil
1019	99–9015	1	Label Kit
1027	99–9017	1	Filter–Oil
1028	99–9018	1	Adapter–Filter, Oil
1058	99–9602	1	Manual–Owner's
1069	99–9020	1	Nozzle–Oil
1080	99–9021	1	Gasket–Retainer
1081	99–9022	1	Retainer–Seal
112	99–9007	1	Stud–Metric
127	99–9008	7	Plug–Welch
127A	99–9010	1	Plug–Welch
38	99–9004	6	Screw–Hex
411	99–9601	1	Plug (Cylinder Block)
44	99–9005	3	Screw–Hex
44A	99–9006	8	Screw–Hex
493	99–9011	1	Bracket–Mounting
718	99–9012	4	Pin–Locating
718A	99–9013	3	Pin–Locating
718B	99–9014	2	Pin–Locating

Ref. No.	Part No.	Qty.	Description



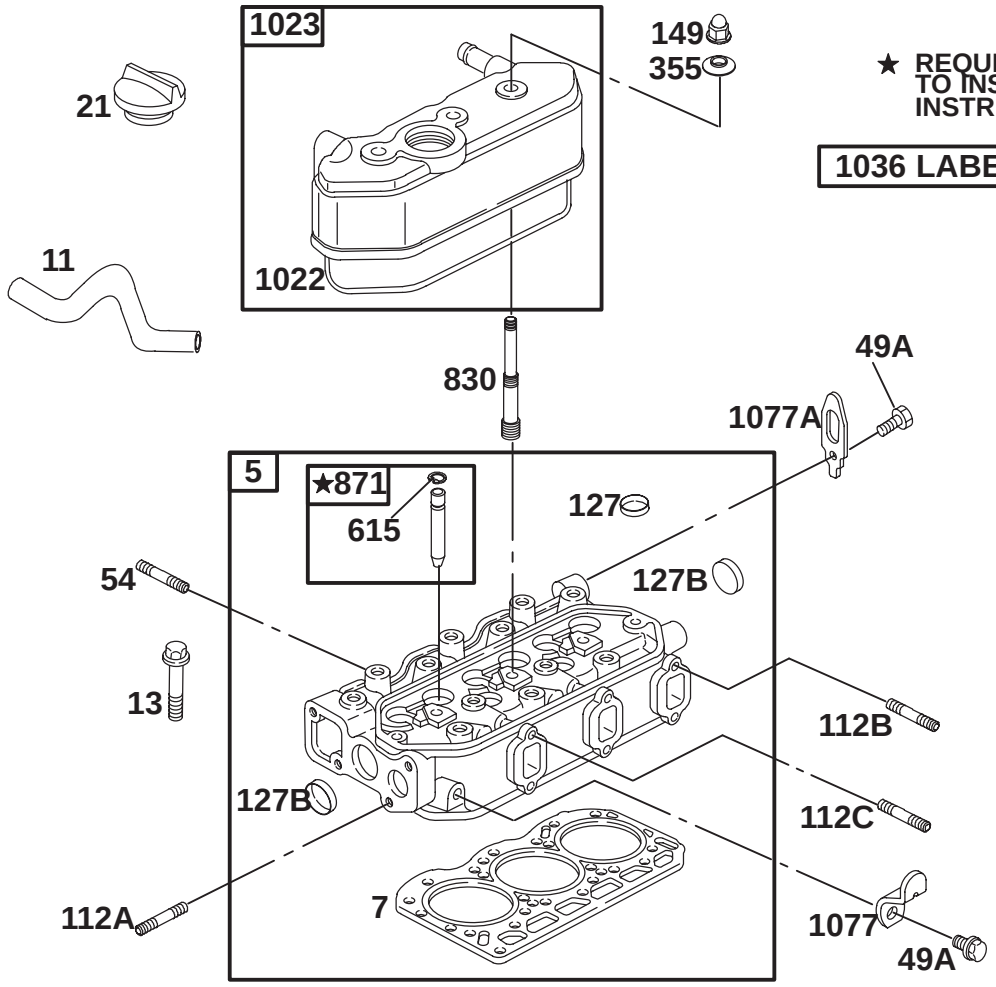
★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

Sheet No.:4

Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
1073	99–9040	1	Plate–Gear, Idler
1075	99–9692	1	Pully–Crankshaft
1076	99–9042	1	Bearing–Rod
1076A	99–9044	3	Bearing Set–Rod, .010 Undersize
1076A	99–9043	3	Bearing Set–Rod
1079	99–9045	1	Bearing Set–Main
1079	99–9046	1	Bearing Set–Main, .010 Undersize
154	99–9034	6	Nut–Hex
16	99–9252	1	Crankshaft
220	99–9035	1	Washer–Thrust
220	99–9036	1	Washer–Thrust, .005in Oversize
23	99–9267	1	Flywheel
25	99–9268	3	Piston ASM
25	99–9605	3	Piston ASM
26	99–9269	3	Set–Ring
26	99–9606	3	Set–Ring
27	99–9607	6	Lock–Pin, Piston
29	99–9608	3	Rod–Connecting
32	99–9030	6	Screw–Rod, Connecting
44B	99–9031	6	Screw–Hex
49	99–9032	2	Screw–Hex
62	99–9033	1	Screw–Hex

Ref. No.	Part No.	Qty.	Description
718C	99–9037	1	Pin–Locating
743	99–9609	1	Gear–Drive
900	99–9039	1	Shaft–Gear



★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

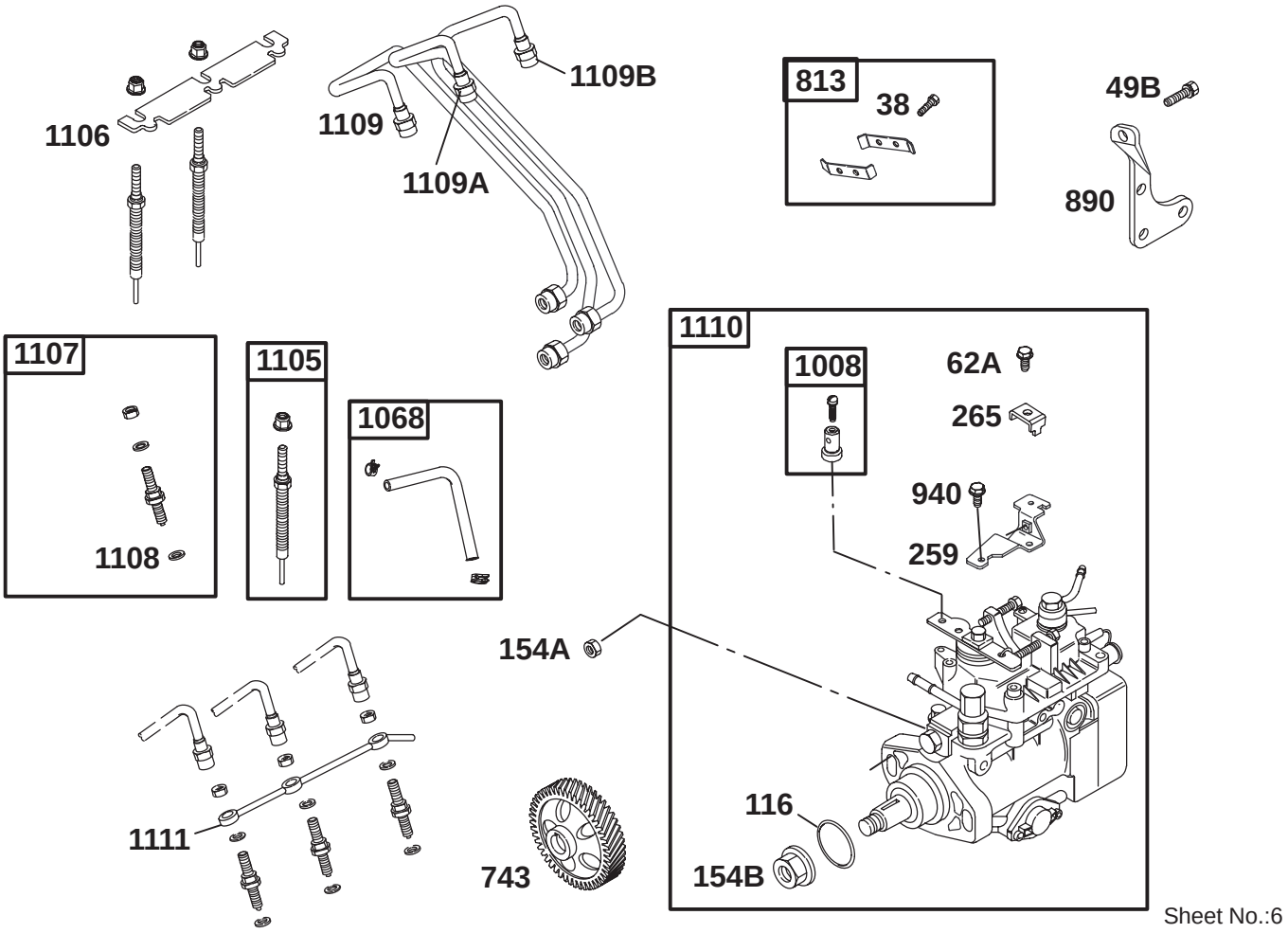
1036 LABEL KIT–EMISSION

Sheet No.:5

Cylinder Head Assembly

Ref. No.	Part No.	Qty.	Description
05	99–9611	1	Head–Cylinder
07	99–9612	1	Gasket–Head, Cylinder
1022	99–9073	1	Gasket–Cover, Rocker
1023	100–6402	1	Cover–Rocker
1036	99–9615	1	Emission Label Kit
1077	99–9076	1	Bracket–Lifting
1077A	99–9077	1	Bracket–Lifting
11	104–7743	1	Tube–Breather
112A	99–9057	2	Stud–Metric
112B	99–9058	5	Stud–Metric
112C	99–9059	1	Stud–Metric
127	99–9008	2	Plug–Welch
127B	99–9060	2	Plug–Welch
13	99–9614	14	Screw–Metric
149	99–9061	3	Nut–Hex, Metric
21	99–9052	1	Cap–Fill, Oil
355	99–9063	3	Washer–Seal
49A	99–9054	2	Screw–Hex, 8mm
54	99–9055	2	Stud–Metric
615	99–9067	6	Retainer
830	99–9101	3	Stud–Arm, Rocker
871	99–9070	6	Bushing–Guide

Ref. No.	Part No.	Qty.	Description

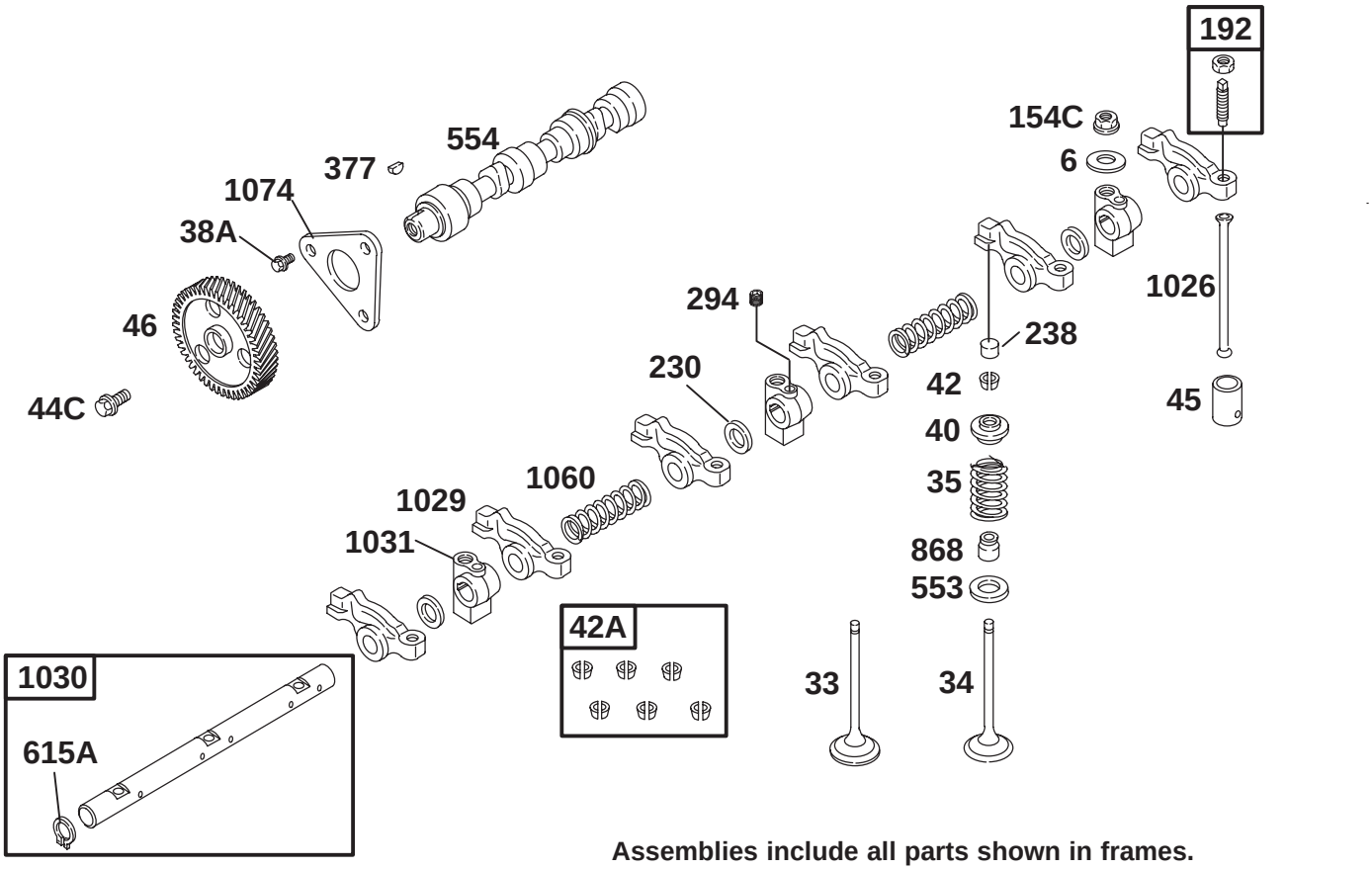


Sheet No.:6

Injection Assembly

Ref. No.	Part No.	Qty.	Description
1008	99–9628	1	Clamp–Swivel
1068	99–9629	1	Hose/Clamp ASM
1105	99–9630	3	Plug–Glow
1106	99–9631	1	Strap–Plug, Glow
1107	99–9632	3	Nozzle–Injector
1108	99–9633	3	Seat–Injector
1109	99–9690	1	Pipe–Injector, #1
1109A	99–9634	1	Pipe–Injector, #2
1109B	99–9635	1	Pipe–Injector, #3
1110	104–3970	1	Pump–Injection
1111	99–9637	1	Pipe–Return, Fuel
116	99–9618	1	O–Ring
154A	99–9619	2	Nut–Hex, Metric
154B	99–9620	1	Nut–Hex, Metric
259	99–9621	1	Bracket–Clamp, Casing
265	99–9622	1	Clamp–Casing
38	99–9004	2	Screw–Hex
49B	99–9616	4	Screw–Hex, 8mm
62A	100–6403	1	Screw–Metric
743	99–9624	1	Gear–Drive
813	99–9625	1	Clamp
890	99–9626	1	Bracket–Support
940	100–6410	2	Screw–Hex

Ref. No.	Part No.	Qty.	Description



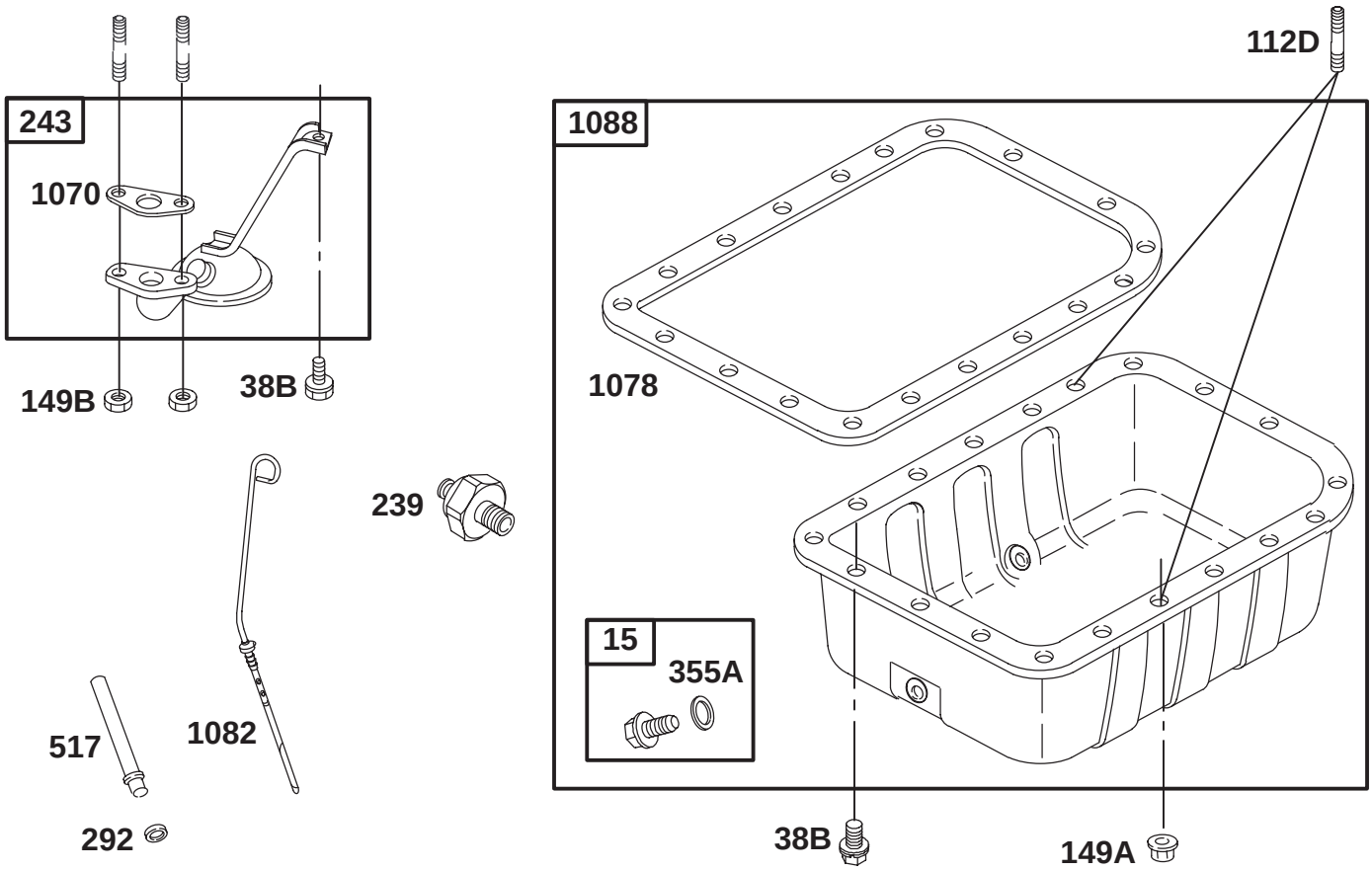
Assemblies include all parts shown in frames.

Sheet No.:7

Rocker Arm Assembly

Ref. No.	Part No.	Qty.	Description
06	99–9079	3	Washer–Flat
1026	99–9103	6	Rod–Push
1029	99–9104	1	Arm–Rocker
1030	99–9106	1	Shaft–Arm, Rocker
1031	99–9107	3	Support–Arm, Rocker
1060	99–9108	2	Spring–Shaft, Rocker
1074	99–9109	1	Retainer–Camshaft
154C	99–9091	3	Nut–Hex, Metric
192	99–9092	6	Adjuster–Arm, Rocker
230	99–9093	3	Washer–Spacer
238	99–9094	6	Cap–Valve
294	99–9090	1	Screw–Metric
33	99–9638	3	Valve–Exhaust
34	99–9639	3	Valve–Intake
35	99–9640	6	Spring–Valve
377	99–9642	1	Key–Timing
38A	99–9083	3	Screw–Hex, 6mm
40	99–9084	6	Retainer–Valve
42	99–9086	1	Keeper–Valve
42A	99–9087	6	Keeper–Valve (Set Of Six)
44C	99–9085	1	Screw–Metric
45	99–9088	6	Tappet–Valve
46	99–9641	1	Gear–Cam
553	99–9096	6	Seat–Spring, Valve
554	99–9097	1	Shaft–Cam

Ref. No.	Part No.	Qty.	Description
615A	99–9099	2	Retainer
868	99–9643	6	Seal–Valve

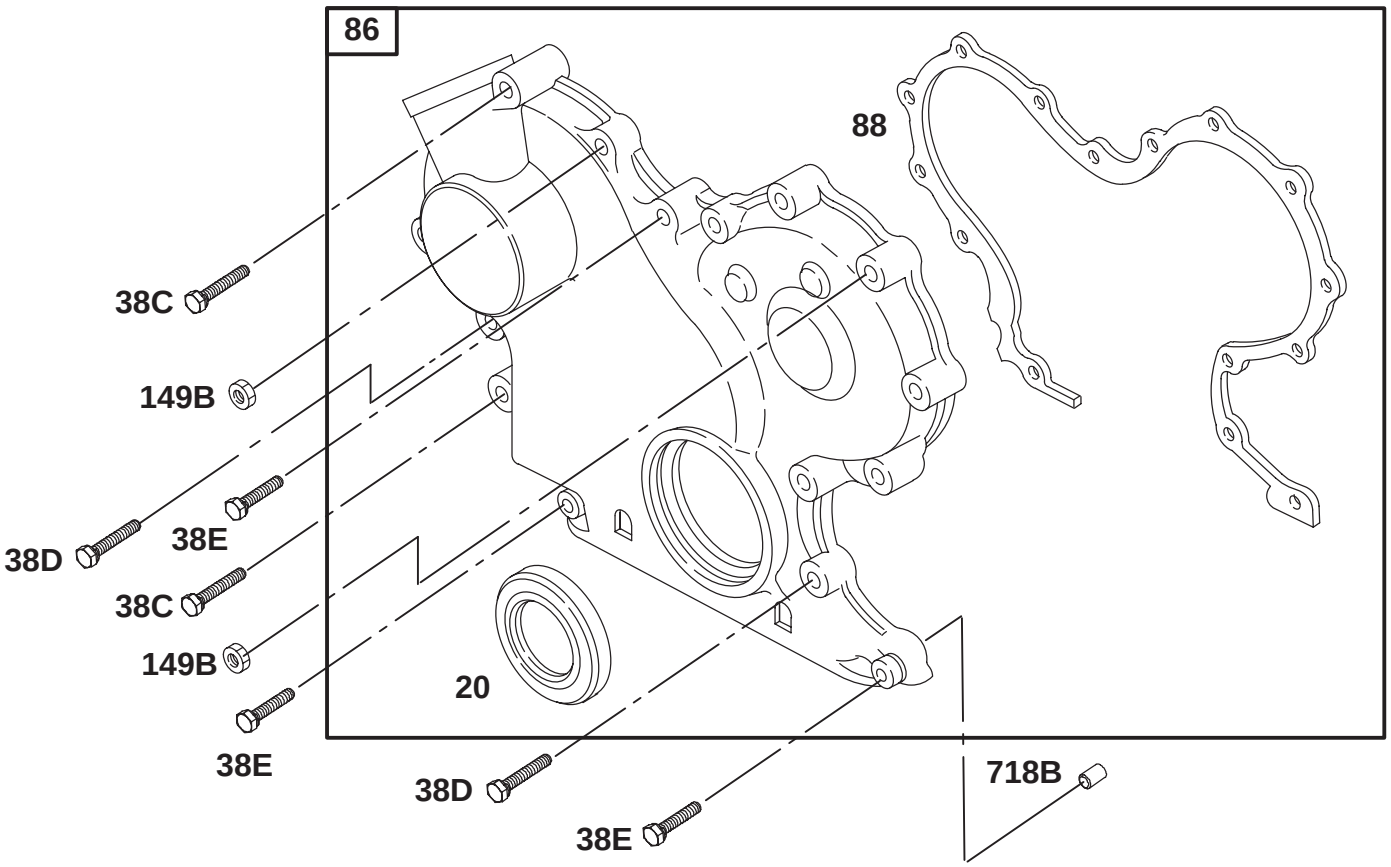


Sheet No.:8

Oil Pan Assembly

Ref. No.	Part No.	Qty.	Description
1070	99–9120	1	Gasket–Strainer, Oil
1078	99–9121	1	Gasket–Pan, Oil
1082	99–9272	1	Dipstick
1088	99–9649	1	Pan–Oil
112D	99–9112	2	Stud–Metric
149A	99–9113	2	Nut–Hex, Metric
149B	99–9114	2	Nut–Hex, Metric
15	99–9644	2	Plug–Drain, Oil
239	99–9115	1	Switch–Pressure, Oil
243	99–9116	1	Screen–Pump, Oil
292	99–9265	1	O–Ring (Dipstick)
355A	99–9645	1	Washer–Seal
38B	99–9111	18	Screw–Hex, 6mm
517	99–9271	1	Collar–Tube, Dipstick

Ref. No.	Part No.	Qty.	Description

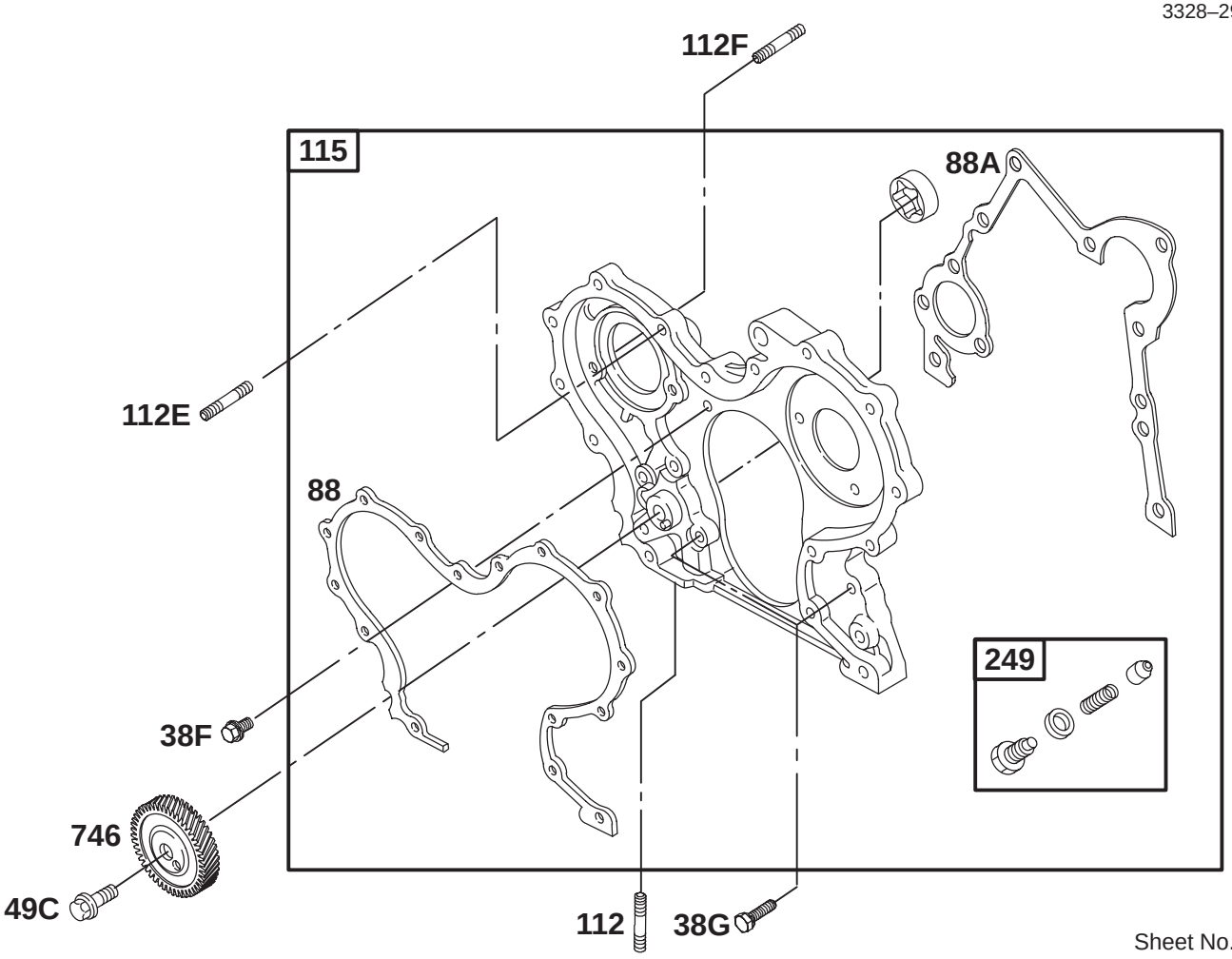


Sheet No.:9

Cover Assembly

Ref. No.	Part No.	Qty.	Description
149B	99–9114	2	Nut–Hex, Metric
20	99–9126	1	Seal–Oil
38C	99–9651	2	Screw–Hex, 6mm
38D	99–9128	9	Screw–Hex, 6mm
38E	99–9129	3	Screw–Hex, 6mm
718B	99–9014	1	Pin–Locating
86	99–9652	1	Gear Cover ASM
88	99–9653	1	Gasket–Cover, Gear

Ref. No.	Part No.	Qty.	Description

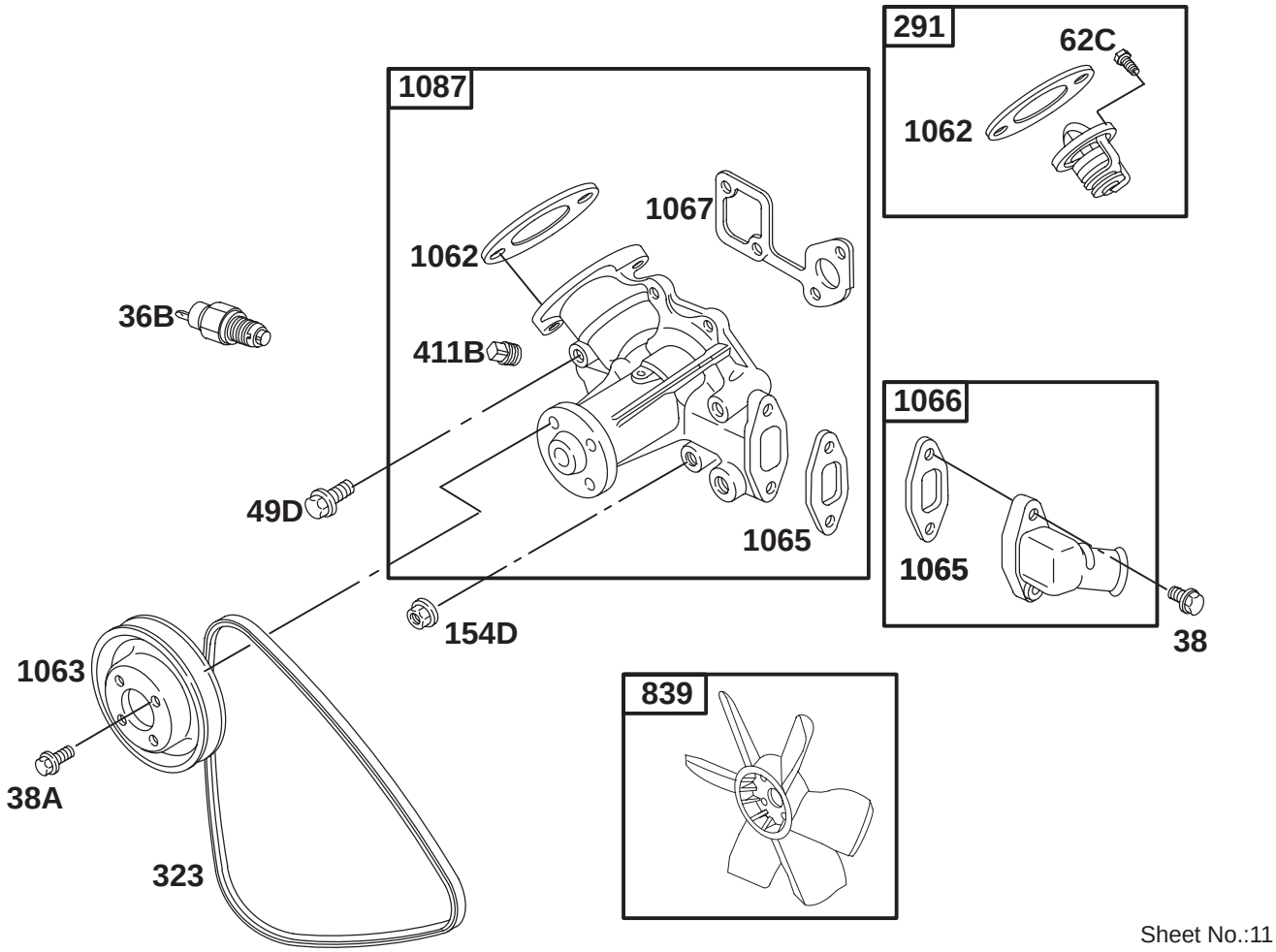


Sheet No.:10

Gear Housing Assembly

Ref. No.	Part No.	Qty.	Description
112	99–9007	1	Stud–Metric
112E	99–9137	2	Stud–Metric
112F	99–9654	2	Stud–Metric
115	99–9655	1	Housing–Gear
249	99–9142	1	Valve–Relief, Oil
38F	99–9134	1	Screw–Hex, 6mm
38G	99–9133	4	Screw–Hex, 6mm
49C	99–9135	1	Screw–Hex, 8mm
746	99–9656	1	Gear–Drive
88	99–9653	1	Gasket–Cover, Gear
88A	99–9136	1	Gasket–Cover, Gear

Ref. No.	Part No.	Qty.	Description

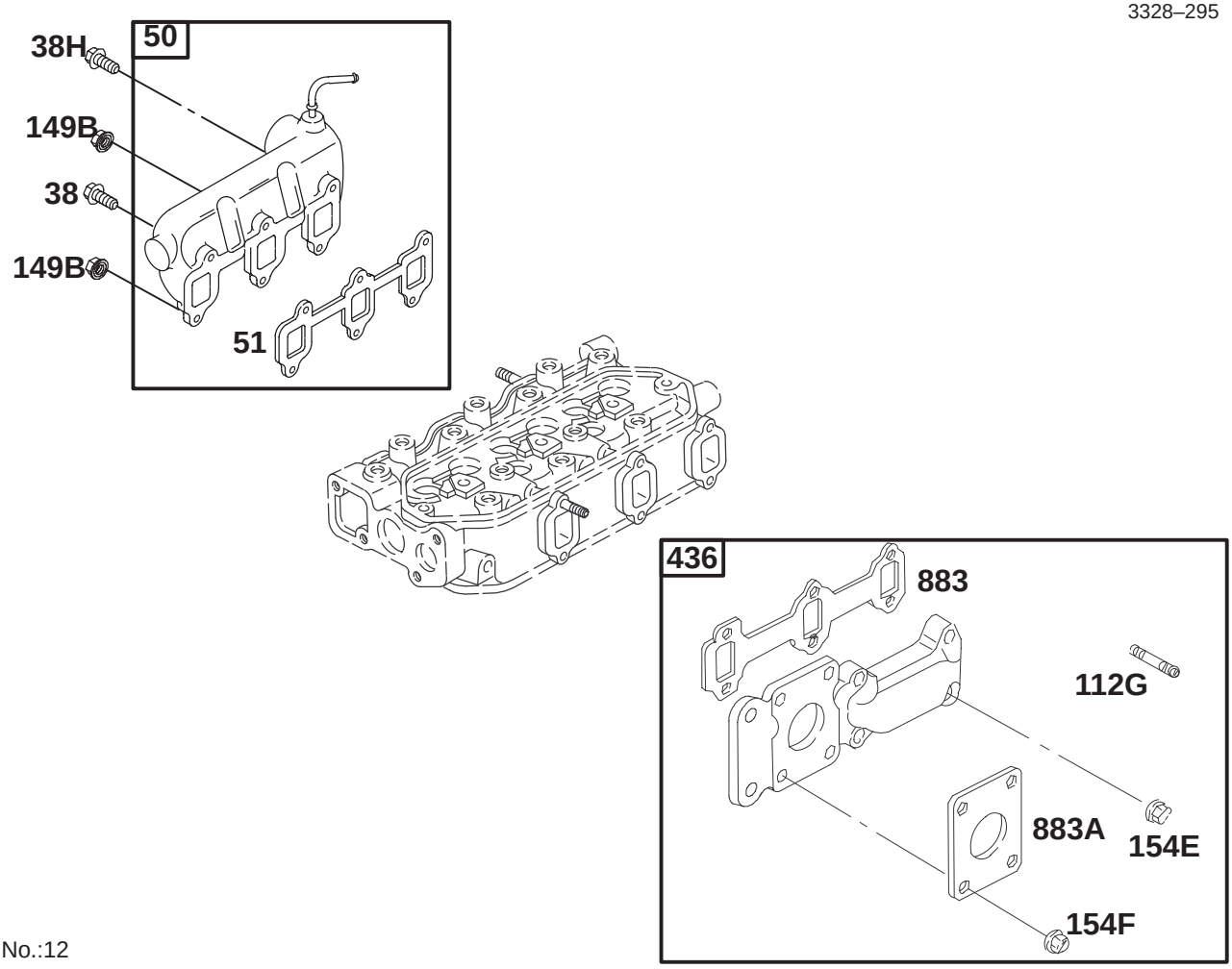


Sheet No.:11

Water Pump Assembly

Ref. No.	Part No.	Qty.	Description
1062	99–9163	1	Gasket–Outlet
1063	99–9164	1	Pulley–Pump
1065	99–9166	1	Gasket–Housing, Inlet
1066	99–9167	1	Housing–Inlet
1067	99–9168	1	Gasket–Pump, Water
1087	105–3832	1	Pump–Water
154D	99–9153	1	Nut–Hex, Metric
291	99–9155	1	Thermostat
323	99–8153	1	Belt–V
36B	99–9157	1	Switch–Temp., Water
38	99–9004	2	Screw–Hex
38A	99–9111	4	Screw–Hex, 6mm
411B	99–9159	1	Plug
49D	99–9151	2	Screw–Hex, 8mm
62C	99–9152	1	Screw–Metric
839	104–3969	1	Fan–Engine,320mm

Ref. No.	Part No.	Qty.	Description

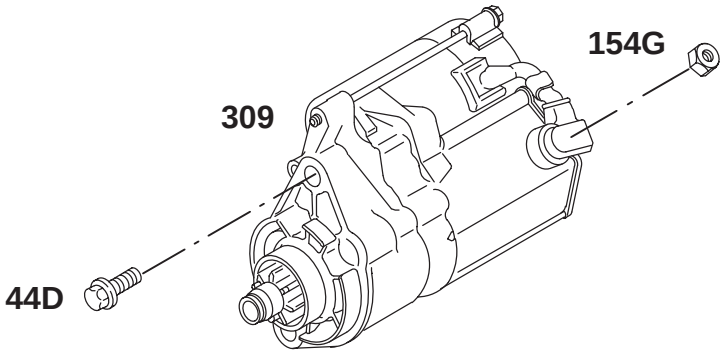


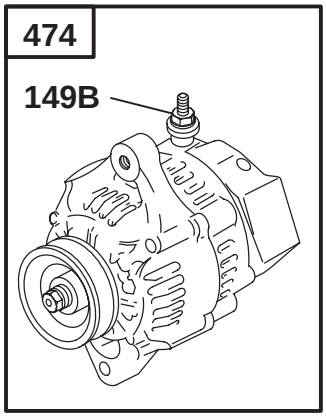
Sheet No.:12

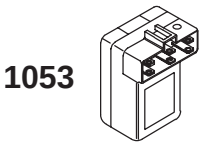
Manifold Assembly

Ref. No.	Part No.	Qty.	Description
112G	100–6407	4	Stud–Manifold, Exhaust
149B	99–9114	2	Nut–Hex, Metric
154E	99–9175	6	Nut–Hex, Metric
154F	99–9176	4	Nut–Hex
38	99–9004	1	Screw–Hex
38H	99–9660	3	Screw–Hex, 6mm
436	99–9177	1	Manifold–Exhaust
50	99–9661	1	Manifold–Intake
51	99–9662	1	Gasket–Intake
883	99–9178	1	Gasket–Exhaust
883A	99–9179	1	Gasket–Exhaust

Ref. No.	Part No.	Qty.	Description





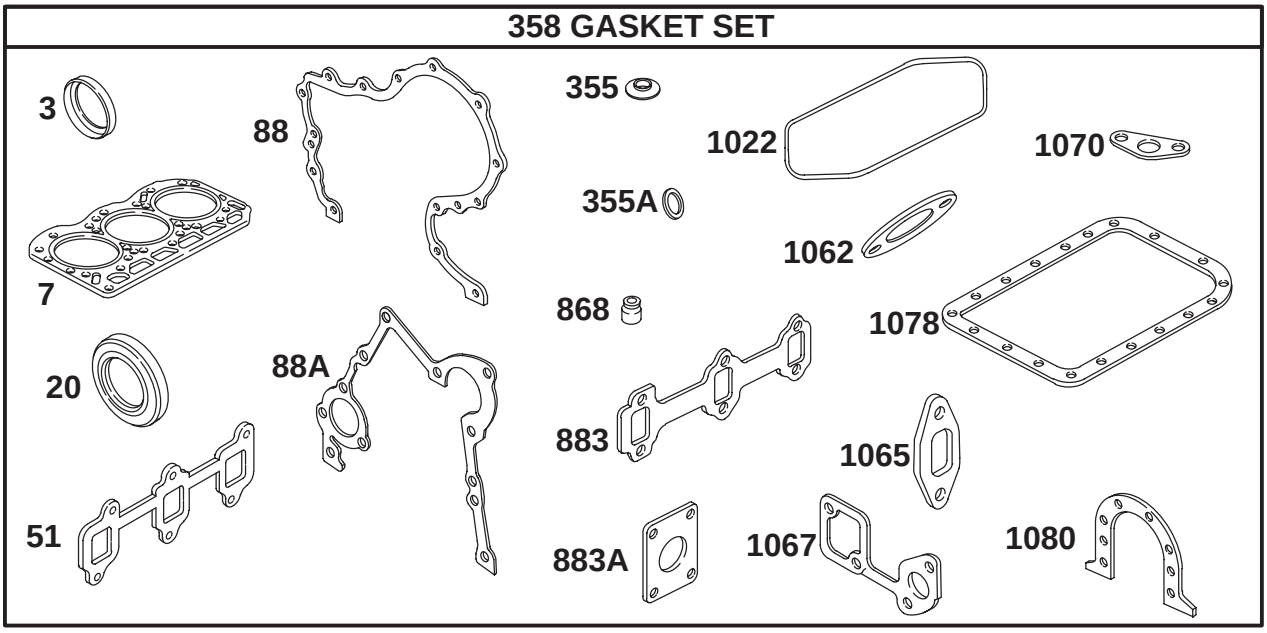


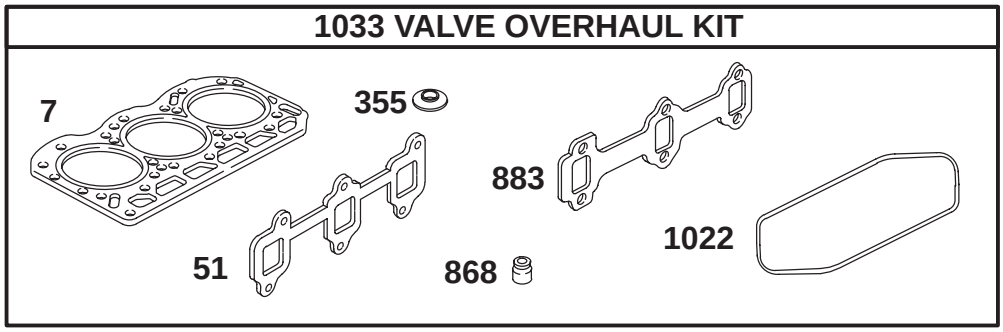
Sheet No.:13

Alternator Assembly

Ref. No.	Part No.	Qty.	Description
1053	99–9666	1	Module
149B	99–9114	1	Nut–Hex, Metric
154G	99–9206	1	Nut–Hex, Metric
309	104–7716	1	Motor–Starter
44D	99–9201	2	Screw–Hex, 10mm
474	99–9209	1	Alternator

Ref. No.	Part No.	Qty.	Description





Sheet No.:14

Gasket and Valve Overhaul Kit

Ref. No.	Part No.	Qty.	Description
03	99–9003	1	Seal–Oil
07	99–9612	1	Gasket–Head, Cylinder
1022	99–9073	1	Gasket–Cover, Rocker
1033	99–9668	1	Valve Overhaul Kit
1062	99–9163	1	Gasket–Outlet
1065	99–9166	1	Gasket–Housing, Inlet
1067	99–9168	1	Gasket–Pump, Water
1070	99–9120	1	Gasket–Strainer, Oil
1078	99–9121	1	Gasket–Pan, Oil
1080	99–9021	1	Gasket–Retainer
20	99–9126	1	Seal–Oil
355	99–9063	1	Washer–Seal
355A	99–9645	1	Washer–Seal
358	99–9667	1	Gasket–Set
51	99–9662	1	Gasket–Intake
868	99–9643	6	Seal–Valve
88	99–9653	1	Gasket–Cover, Gear
883	99–9178	1	Gasket–Exhaust
883A	99–9179	1	Gasket–Exhaust
88A	99–9136	1	Gasket–Cover, Gear

Ref. No.	Part No.	Qty.	Description

Maintenance Record

Date								

Maintenance Record

Date								


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