



Dingo[®] 322

Compact Utility Loader

Model No. 22305—220000201 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.

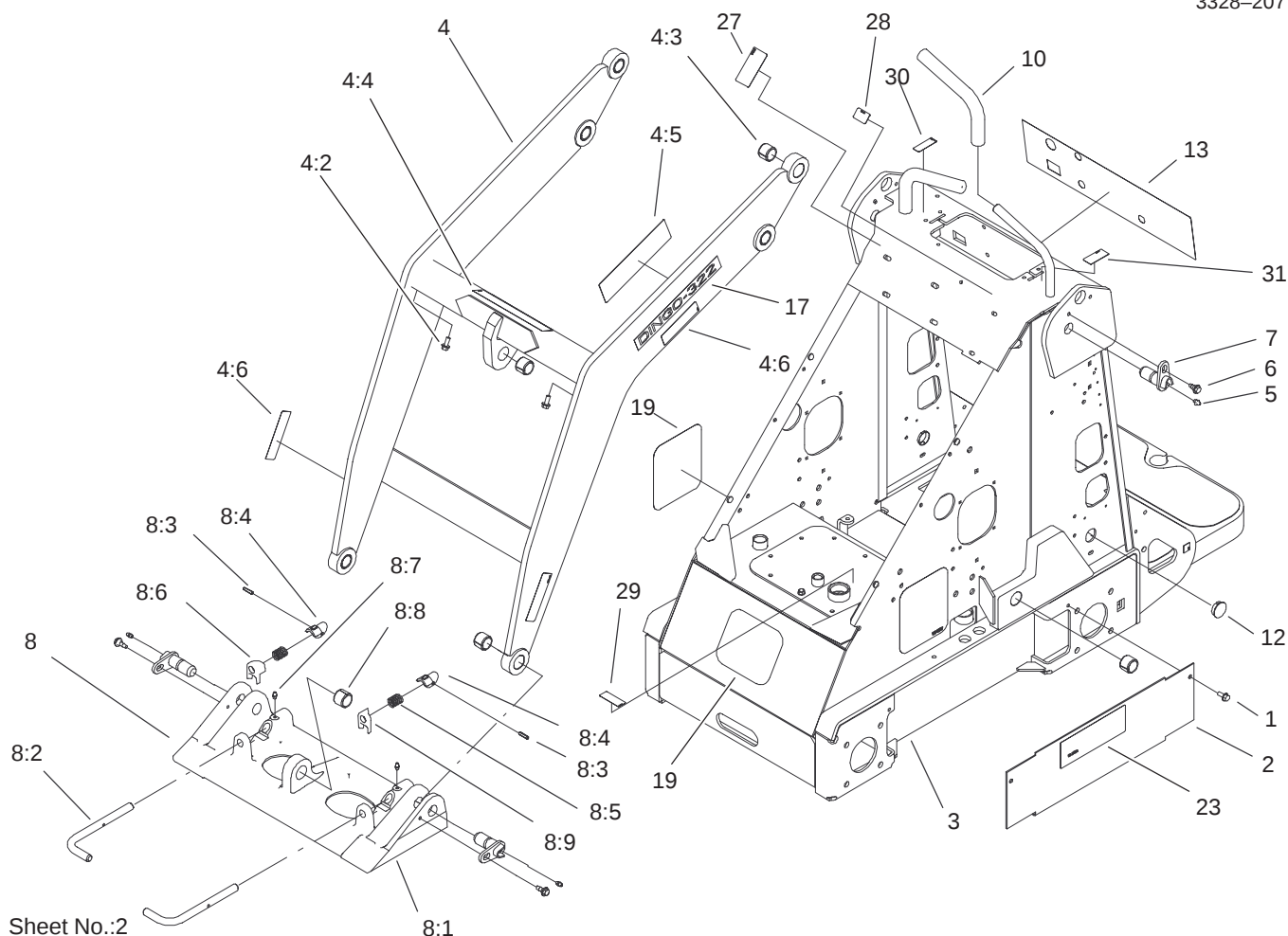
Contents

Description	Page	Description	Page
Frame and Loader Arm Assembly	3	Hydraulic Schematic	25
Frame Assembly No. 104–7416	4	Group 1 – Crankshaft Assembly	
Hood and Screen Assembly	5	Kohler CH22S–66559	26
Wheel and Motor Assembly	6	Group 2 – Crankcase Assembly	
Hydraulic Motor Assembly No. 99–3052	7	Kohler CH22S–66559	27
Engine and Pump Assembly	8	Group 3 – Oil Pan/Lubrication Assembly	
Fuel Tank and Air Filter Assembly	9	Kohler CH22S–66559	28
Air Cleaner Assembly No. 99–3160	10	Group 4 – Head/Valve/Breather Assembly	
Hydraulic Tank and Filter Assembly	11	Kohler CH22S–66559	29
Auxiliary Control Lever Assembly	12	Group 5 – Ignition/Electrical Assembly	
Hydraulic Valve Assembly	13	Kohler CH22S–66559	30
Hydraulic Auxiliary Valve No. 99–3077	14	Group 6 – Blower Housing and Baffle Assembly	
Hydraulic Valve Kit Assembly No. 104–4221 ..	15	Kohler CH22S–66559	31
Hydraulic Selector Valve Assembly No. 99–3072	16	Group 7 – Starter Assembly	
4–Spool Valve Assembly	17	Kohler CH22S–66559	32
4–Spool Hydraulic Valve Assembly No. 99–3070	18	Group 8 – Fuel System Assembly	
Hydraulic Motor Assembly	19	Kohler CH22S–66559	33
Counterbalance Valve Assembly No. 99–3040 ..	20	Group 9 – Engine Control Assembly	
Hydraulic Cylinder Installation Assembly	21	Kohler CH22S–66559	34
Hydraulic Cylinder Kit Assembly No. 100–4163	22	Group 10 – Air Intake/Filtration Assembly	
Electrical Component Assembly	23	Kohler CH22S–66559	35
Electrical Schematic	24	Group 11 – Exhaust Assembly	
		Kohler CH22S–66559	36

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

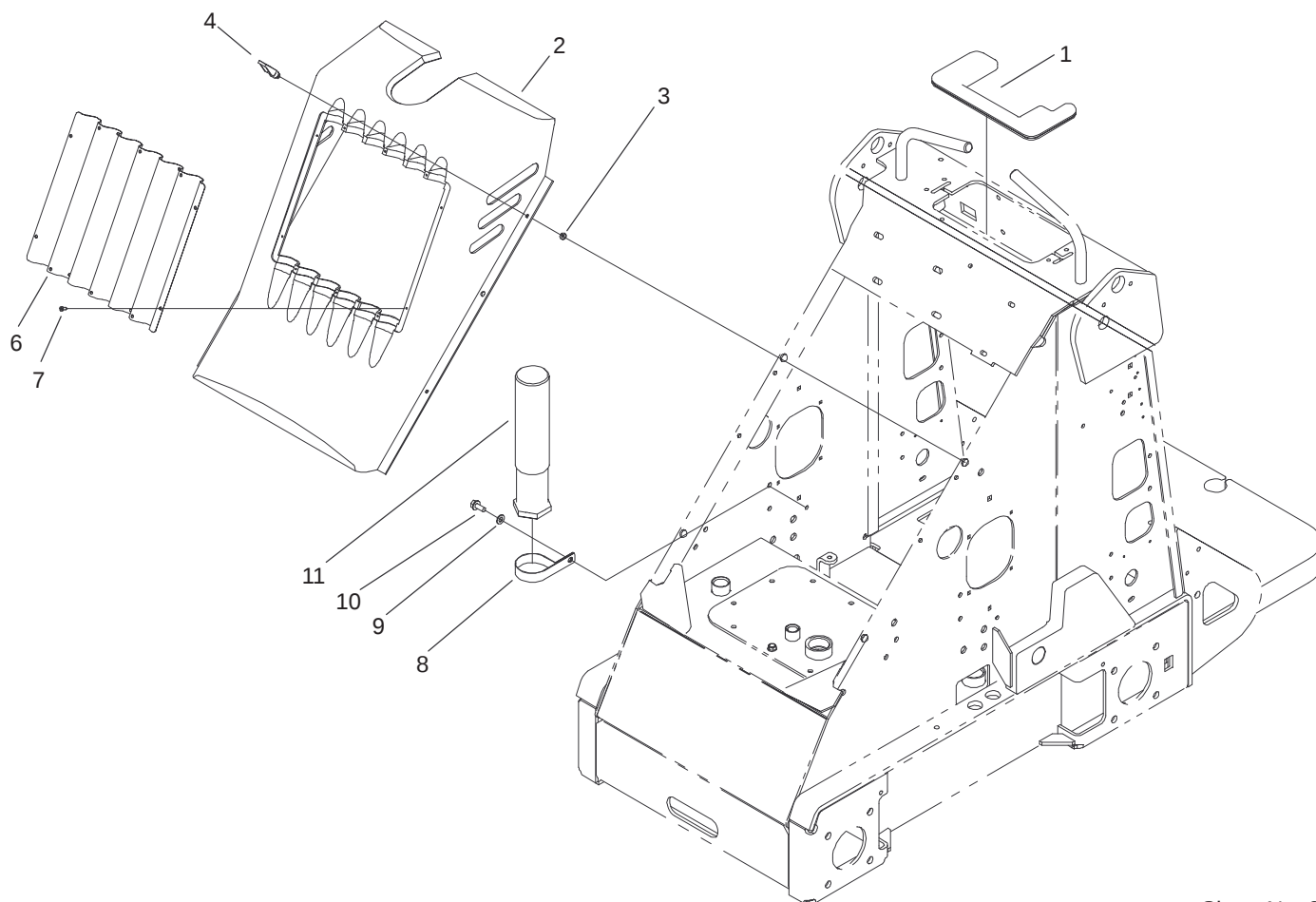


Sheet No.:2

Frame and Loader Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	32144-70	4	Screw-HH
2	99-3020-01	2	Cover-Hose
3	104-7416	1	Frame ASM
4	105-8366	1	Loader ASM
4:2	32144-70	2	Screw-HH
4:3	98-4871	7	Bushing-Tension
4:4	98-4682	1	Decal-Caution
4:5	98-9051	1	Decal-Danger
4:6	100-6141	4	Decal-Pinch
5	302-5	4	Fitting-Grease
6	99-5105	4	Bolt-Shoulder
7	99-1414	4	Pin-Pivot
8	105-8364	1	Quick Attach ASM
8:1	105-0245-03	1	Mount-Attach, Quick
8:2	105-8367	2	Pin-Locking
8:3	3285-1	2	Pin-Grooved
8:4	105-0246	2	Cam
8:5	98-4694	2	Spring-Compression
8:6	104-5909	1	Stop-RH
8:7	302-5	2	Fitting-Grease
8:8	98-4871	1	Bushing-Tension
8:9	104-5903	1	Stop-LH
10	98-4845	2	Grip-Cushion
12	94-1402	2	Plug-Hole
13	99-3157	1	Decal-Panel, Control
17	99-3166	2	Decal-Dingo 322

Ref. No.	Part No.	Qty.	Description
19	62-5550	3	Decal-Toro
23	99-3068	2	Decal-4-Paw
27	98-4677	1	Decal-Power, Auxiliary
28	98-8220	1	Decal-Limiter, Speed
29	105-8404	1	Decal-Oil, HYD
30	94-2551	1	Decal-Choke
31	98-8219	1	Decal-Throttle

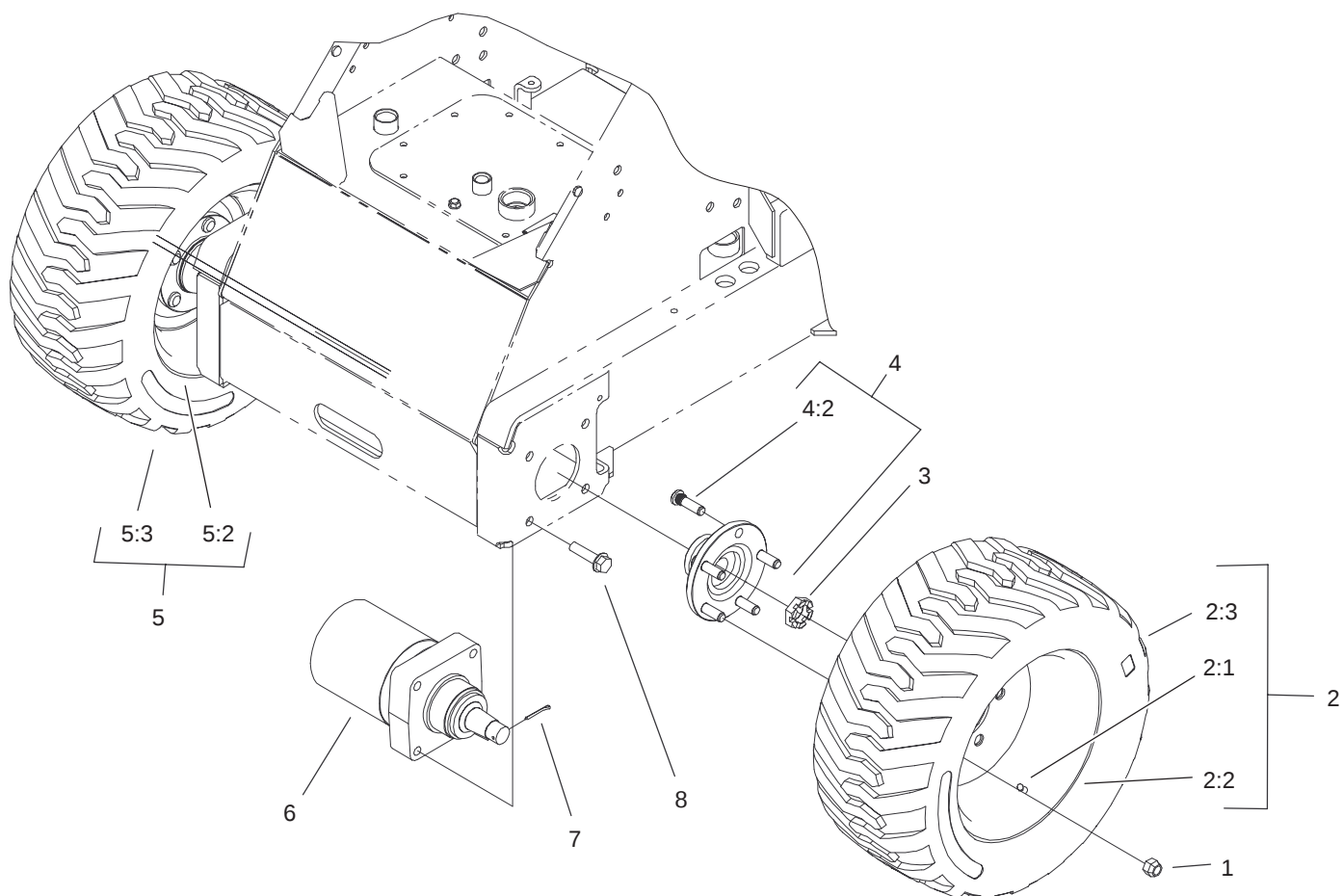


Sheet No.:3

Hood and Screen Assembly

Ref. No.	Part No.	Qty.	Description
1	99-3155	1	Cover-Valve
2	99-3164	1	Cover-Hood
3	99-3058	4	Washer
4	74-5950	4	Latch-Swell
6	99-3147-03	1	Grille-Screen
7	32144-111	10	Screw-PPH
8	2412-133	1	R-Clamp
9	3256-23	1	Washer-Flat
10	32144-70	1	Screw-HH
11	74-0720	1	Tube-Manual

Ref. No.	Part No.	Qty.	Description

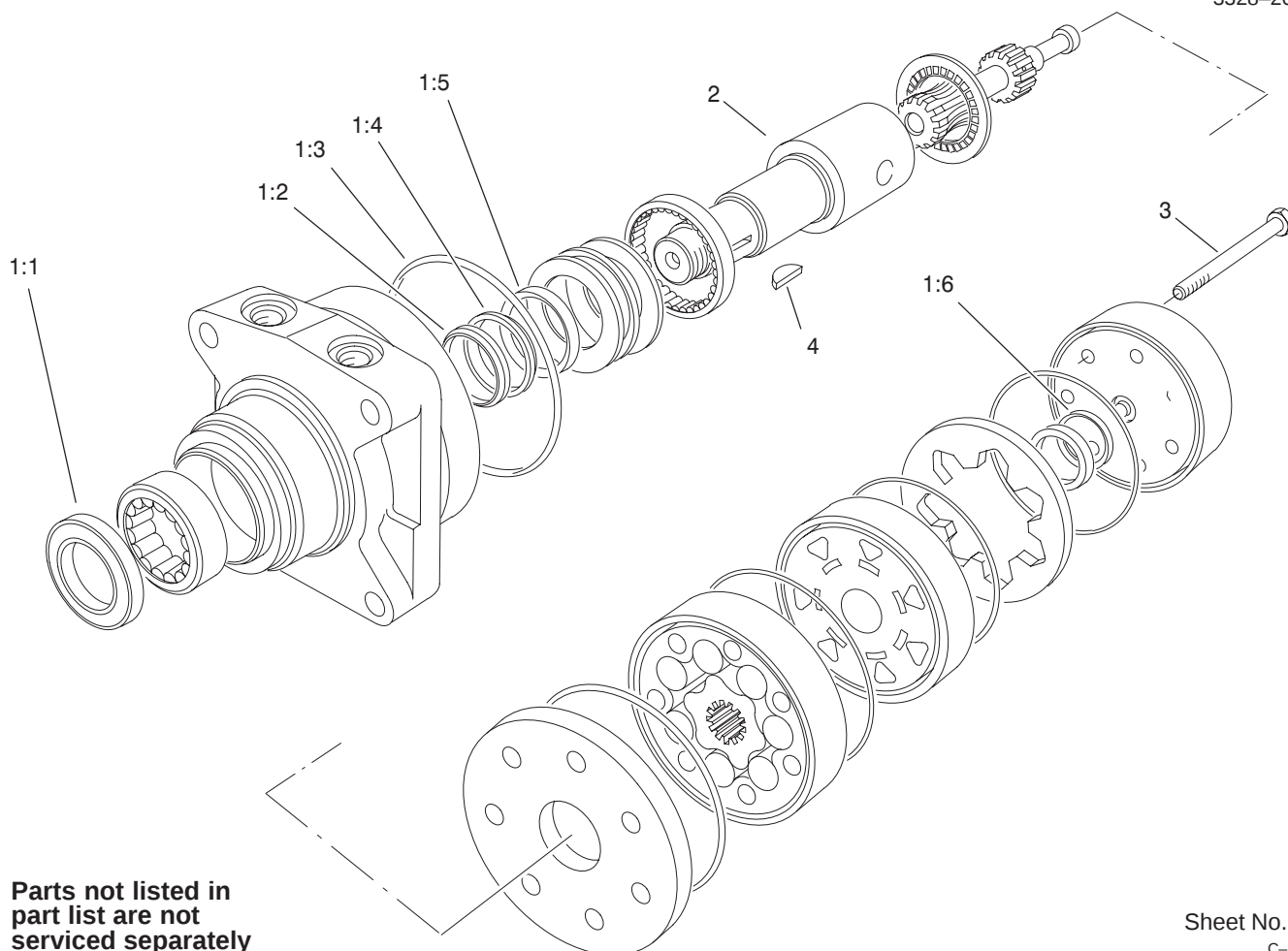


Sheet No.:4

Wheel and Motor Assembly

Ref. No.	Part No.	Qty.	Description
1	242-50	20	Nut-Lug
2	98-2747	2	LH Wheel And Tire ASM
2:1	232-27	1	Stem-Valve
2:2	98-2748	1	Wheel
2:3	98-2749	1	Tire-Loader Style
3	99-3139	4	Nut
4	99-3064	4	Hub ASM
4:2	10-6830	5	Stud-Type, Drive
5	99-1447	2	RH Wheel And Tire ASM
5:1	232-27	1	Stem-Valve
5:2	98-2748	1	Wheel
5:3	98-2749	1	Tire-Loader Style
6	99-3052	4	Hydraulic Motor ASM
7	99-3171	4	Pin-Cotter
8	3234-27	16	Screw-Flange

Ref. No.	Part No.	Qty.	Description



**Parts not listed in
part list are not
serviced separately**

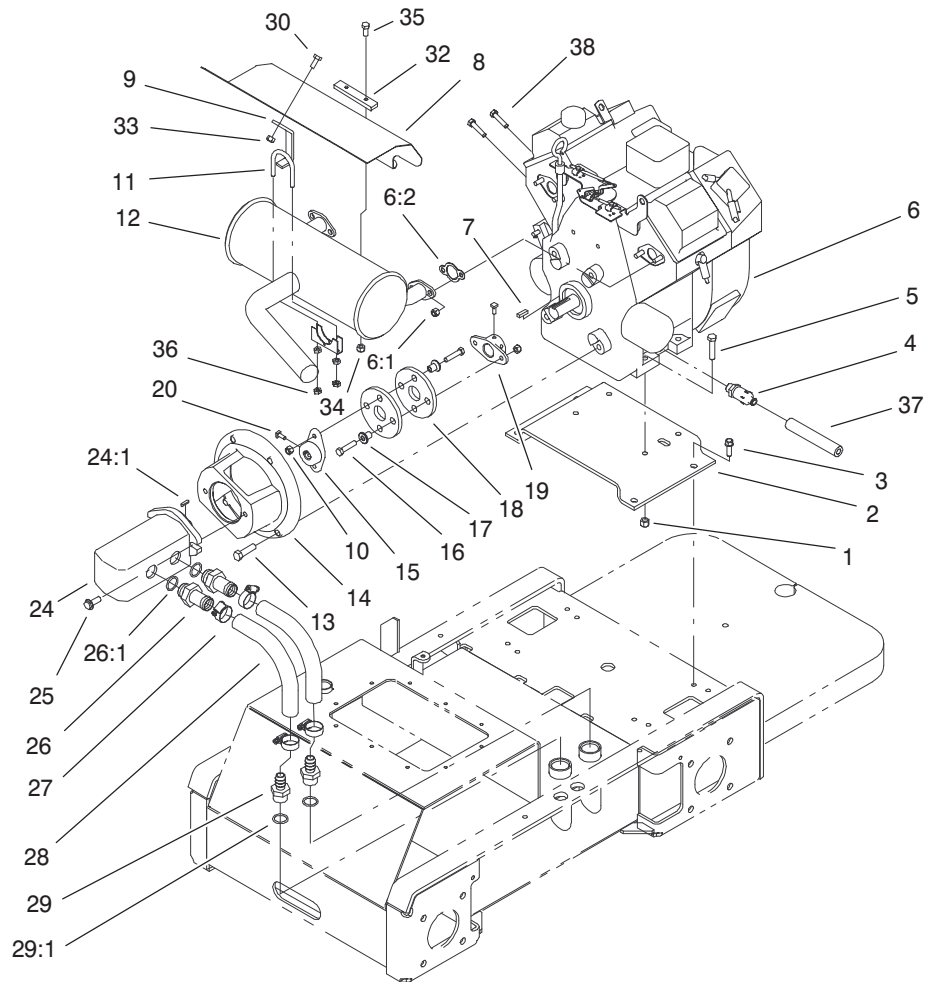
Sheet No.:A2
C-2980

Hydraulic Motor Assembly No. 99-3052

Ref. No.	Part No.	Qty.	Description
1	94-8178	1	Kit-Seal
☆1:1		1	Seal-Dirt And Water
☆1:2		1	Washer-Backup
☆1:3		5	Seal-Ring
☆1:4		1	Washer-Backup
☆1:5		1	Seal-Inner
☆1:6		1	Seal-Commutator
2	99-3090	1	Coupling-Shaft
3	99-3091	7	Screw-Cap, HH
4	3257-42	1	Key-Woodruff

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



Sheet No.:5

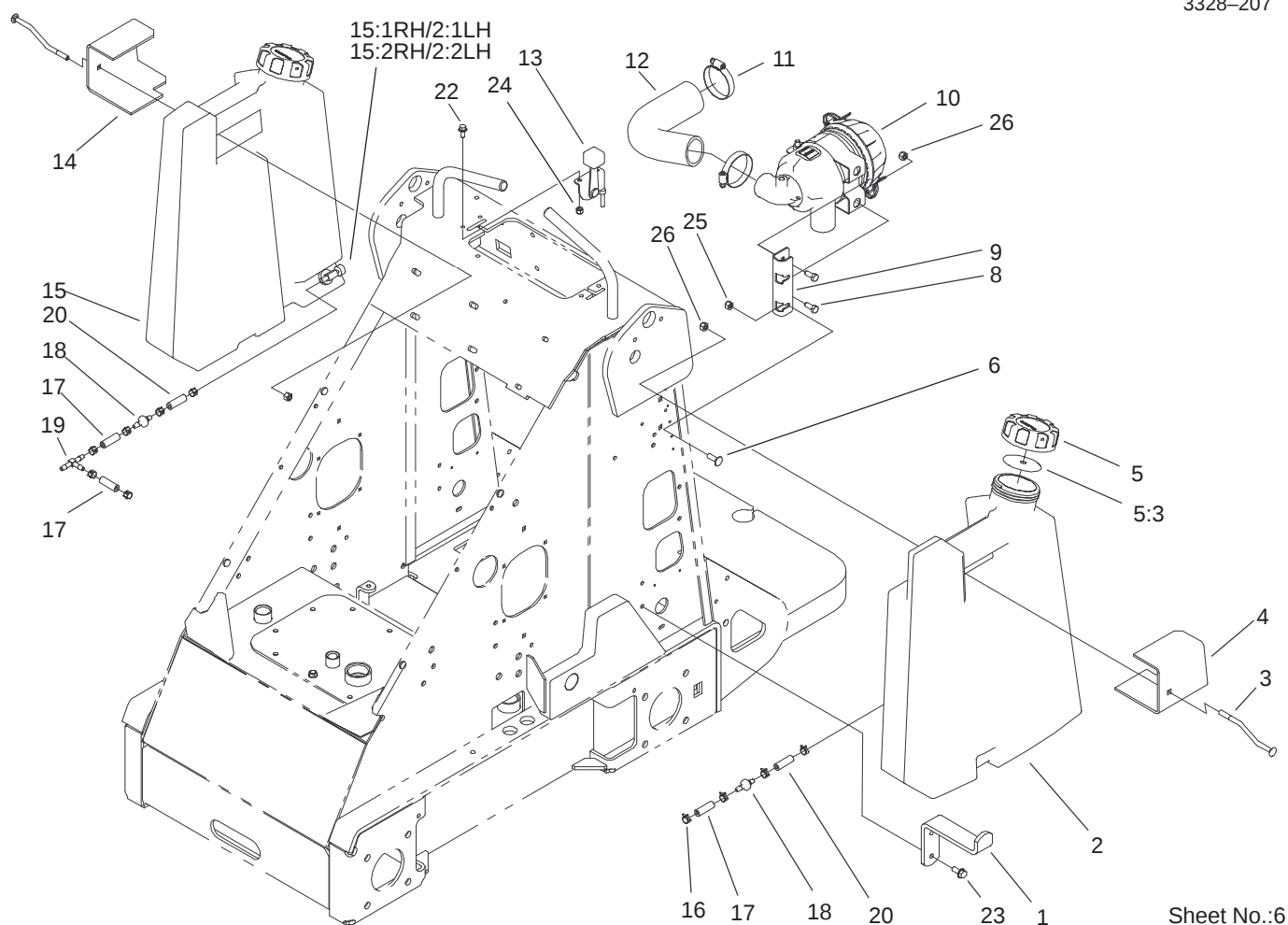
Engine and Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	3296-39	4	Nut-Lock, NI
2	98-4666-03	1	Mount-Engine
3	95-1726	4	Screw-Taptite W/Patch
4	92-6877	1	Valve-Drain, Oil
5	323-9	4	Screw-HH
☆6		1	Engine-Kohler Ch22s-66559
6:1	92-6780	4	Nut-HF
6:2	93-0350	2	Gasket-Exhaust
7	10-7070	1	Key-Square
8	99-3115-03	1	Shield-Muffler
9	99-3138	1	Support-Shield
10	3296-29	4	Nut-Lock, NI
11	2112-9	1	Clamp
12	100-1711	1	Muffler
13	324-6	4	Screw-HH
14	98-2751-03	1	Mount-Pump
15	98-4701	1	Hub-Pump
16	322-7	4	Screw-HH
17	71-4411	4	Spacer
18	44-2230	2	Coupling-Rubber
19	27-1960	1	Hub-Engine
20	3241-6	4	Screw-SQH
24	98-4702	1	Pump-Gear, Tandem
24:1	98-4700	1	Key-Square

Ref. No.	Part No.	Qty.	Description
*24:2	99-1353	1	Kit-Seal
25	66-9300	2	Screw-HF
26	99-3017	2	Fitting
26:1	237-81	1	O-Ring
27	2412-111	4	Clamp
28	99-3046	2	Hose-Suction, Formed
29	354-78	2	Connector-Hose
29:1	237-146	1	O-Ring
30	322-3	1	Screw-HH
32	99-3116-03	1	Spacer-Bar
33	32152-1	1	Nut-Lock, NI
34	32152-4	2	Nut-Conelock
35	3234-4	2	Screw-HHF
36	3218-2	2	Nut-Jam
37	98-4667	1	Hose-Drain, Oil
38	32144-18	2	Screw-HH

☆ Not serviced separately

* Not illustrated

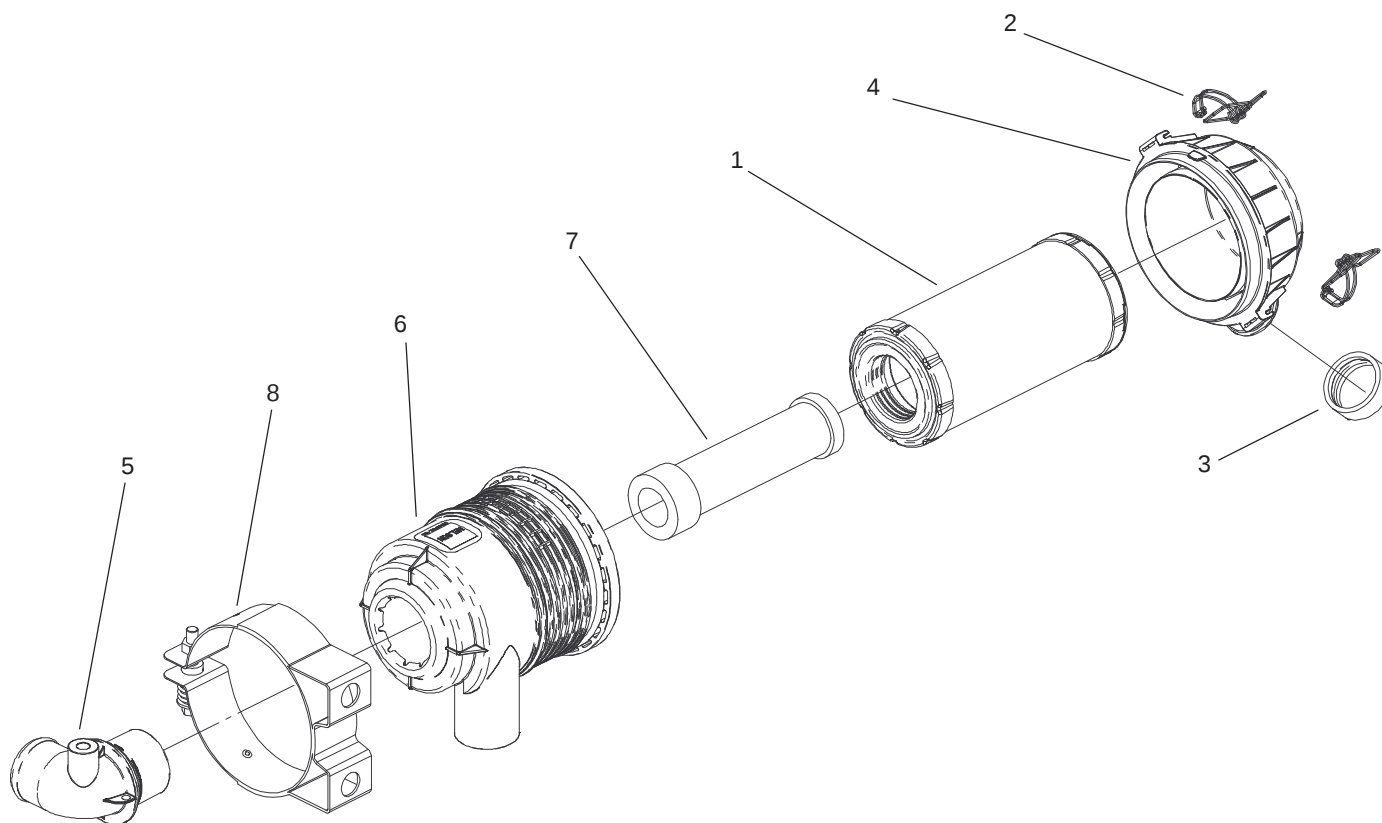


Sheet No.:6

Fuel Tank and Air Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	98-4656-03	2	Mount-Bottom, Tank
2	105-4051	1	LH Fuel Tank ASM
2:1	46-6560	1	Bushing
2:2	104048	1	Valve-Fuel
3	98-4657	2	Bolt-Mount
4	99-1444-03	1	Plate-Mount, Left
5	104-7418	2	Cap-Fuel, Gas
5:3	104-7420	1	Gasket-Vented
6	3230-2	2	Screw-CARR
8	322-3	2	Screw-HH
9	99-3080-03	1	Mount-Cleaner, Air
10	99-3160	1	Air Cleaner ASM
11	2412-42	2	Clamp-Hose
12	99-3148	1	Hose-Air
13	85-9310	2	Control-Choke / Throttle
14	98-4655-03	1	Plate-Mount
15	105-4052	1	RH Fuel Tank ASM
15:1	46-6560	1	Bushing
15:2	104048	1	Valve-Fuel
16	92-2379	10	Clamp-Hose
17	99-3185	3	Hose-Fuel
18	99-5000	2	Valve-Check, Fuel
19	99-5005	1	Fitting-Tee, Barbed
20	99-5101	2	Hose-Fuel
22	3234-33	4	Screw-HHF

Ref. No.	Part No.	Qty.	Description
23	32144-70	4	Screw-HH
24	3296-42	4	Nut-Lock, NI
25	32128-20	2	Nut-HF
26	3296-29	4	Nut-Lock, NI



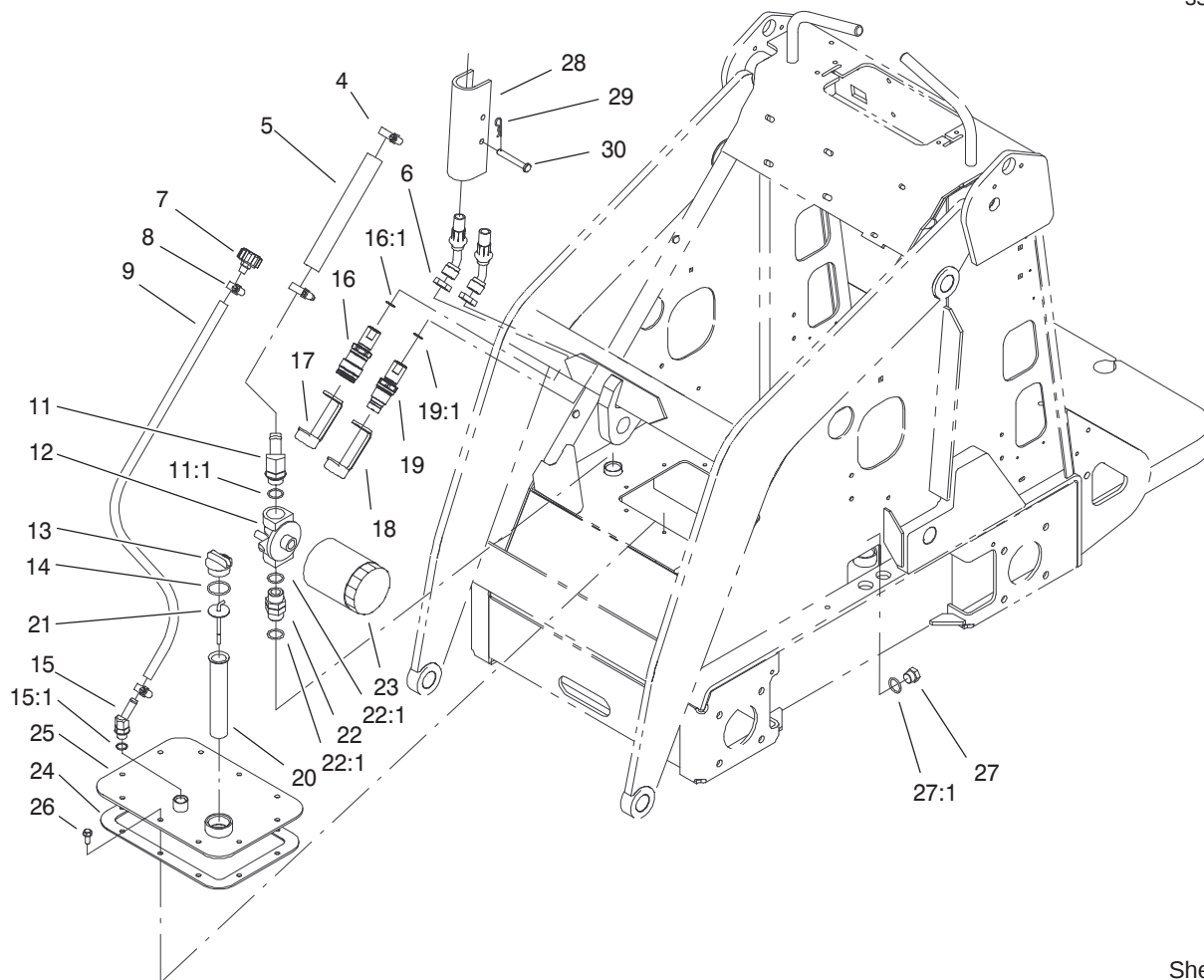
Sheet No.: A3

C-3006

Air Cleaner Assembly No. 99-3160

Ref. No.	Part No.	Qty.	Description
1	99-3173	1	Element-Filter, Air
2	99-3174	2	Clip-Cleaner, Air
3	99-3175	1	Valve-Ejector, Dust
4	99-3176	1	Cover-Air Cleaner
5	99-3183	1	Tube ASM
6	99-3184	1	Housing-Air Cleaner
7	99-3198	1	Filter-Safety
8	99-3197	1	Mounting Bracket ASM

Ref. No.	Part No.	Qty.	Description

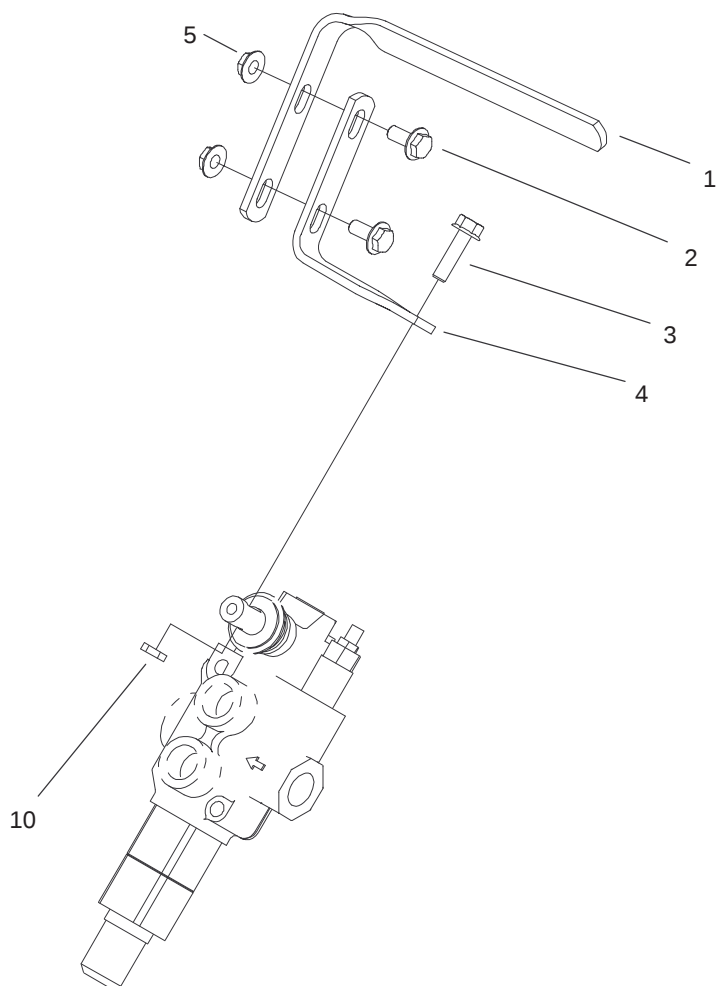


Sheet No.:7

Hydraulic Tank and Filter Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
4	2412-129	2	Clamp-Hose	22:1	237-81	2	O-Ring
5	98-2713	1	Hose-Suction, HYD	23	54-0110	1	Filter-Oil, Transmission
6	340-74	2	Locknut-Bulkhead	24	98-9927	1	Gasket-Cover
7	68-6150	1	Breather-Air	25	100-1713-01	1	Cover ASM
8	2412-36	2	Clamp-Hose	26	98-9940	10	Screw
9	98-2708	1	Hose-Vent	27	353-988	1	Plug-Hex, Hollow
11	354-127	1	Elbow-45°	27:1	237-79	1	O-Ring
11:1	237-81	1	O-Ring	28	98-4675-01	2	Lock-Cylinder
12	92-5821	1	Filter Head ASM	29	3290-467	2	Pin-Hair
13	93-7498	1	Plug-Plastic	30	283-52	2	Pin-Clevis
14	237-123	1	O-Ring				
15	354-126	1	Fitting-HYD, 45°				
15:1	237-79	1	O-Ring				
16	105-8394	1	Bulkhead Coupler ASM				
16:1	237-65	1	O-Ring				
*16:2	105-8396	1	Kit-Seal				
17	100-8816	1	Cap-Dust, Coupler				
18	100-8815	1	Cap-Dust, Nipple				
19	105-8395	1	Bulkhead Nipple ASM				
19:1	237-65	1	O-Ring				
*19:2	100-6120	1	Kit-Seal				
20	61-2790	1	Filter-Screen				
21	100-2097	1	Dipstick-Oil				
22	98-9906	1	Fitting-Thread, Straight				

* Not illustrated

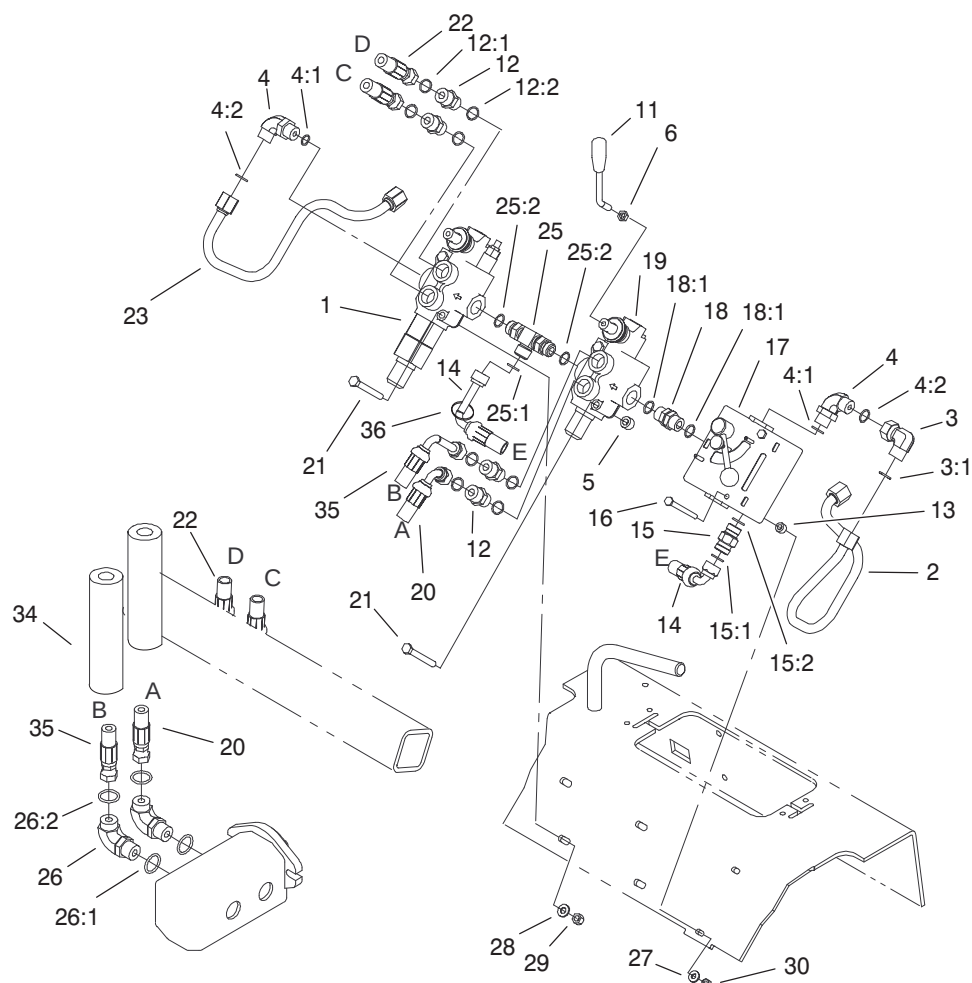


Sheet No.:8

Auxiliary Control Lever Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9090	1	Grip-Control
2	3234-5	2	Screw
3	33104-030	1	Screw-HHF
4	99-1376	1	Mount-Control
5	32128-44	2	Nut
10	42-9580	1	Nut-Hex

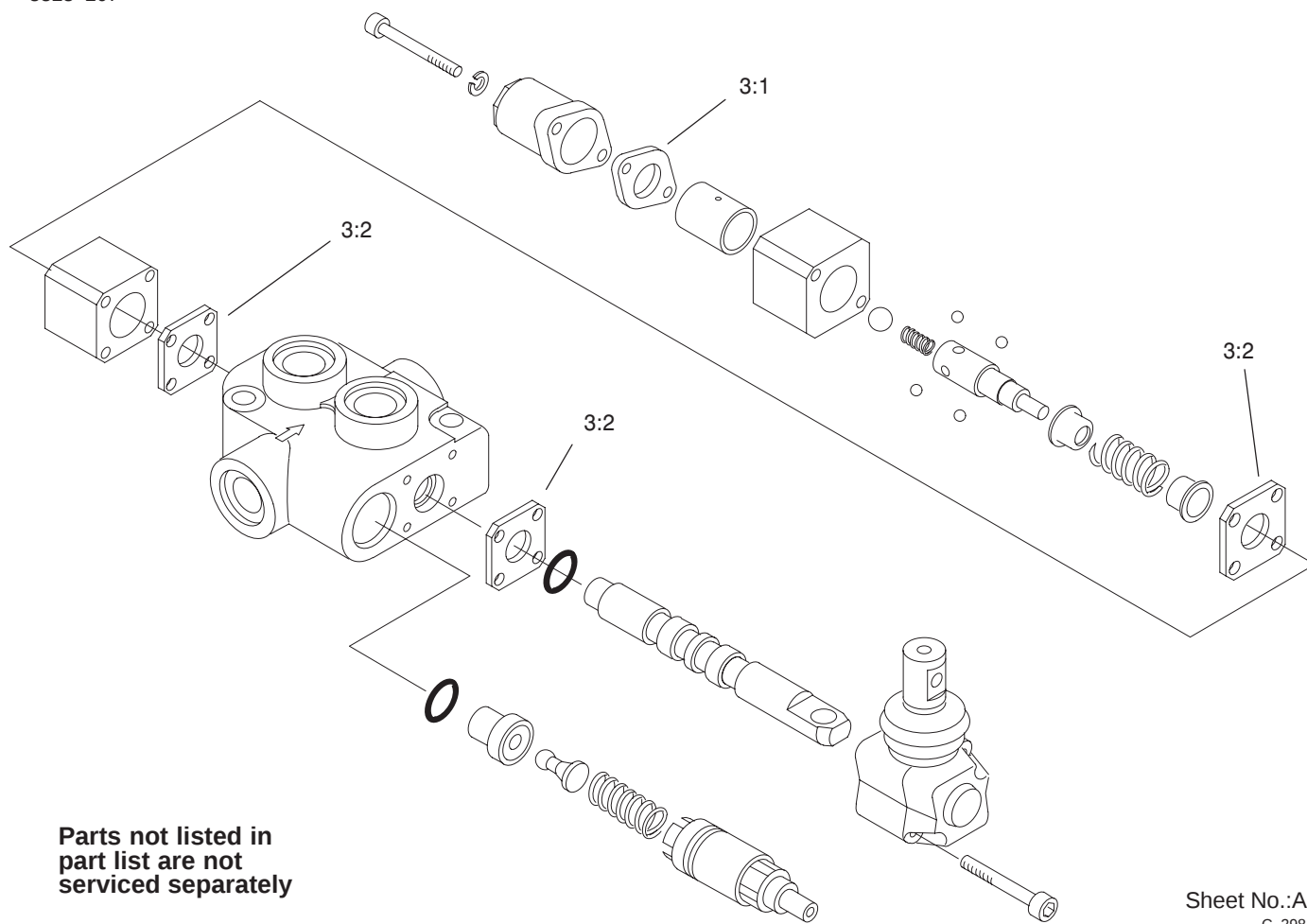
Ref. No.	Part No.	Qty.	Description



Sheet No.:9

Hydraulic Valve Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	99-3077	1	Valve-HYD, Auxiliary	22	100-8817	2	HYD Hose ASM
2	99-3030	1	HYD Tube ASM	23	98-4724	1	HYD Tube ASM
3	94-6031	1	Fitting-HYD	25	98-9079	1	Adapter-Tee, Adjustable
3:1	237-30	1	O-Ring	25:1	237-30	1	O-Ring
4	340-98	2	Fitting-HYD, 90°	25:2	237-79	2	O-Ring
4:1	237-79	1	O-Ring	26	340-105	2	Fitting-90°
4:2	237-30	1	O-Ring	26:1	237-80	1	O-Ring
5	98-4695	4	Spacer	26:2	237-30	1	O-Ring
6	42-9580	1	Nut-Hex	27	3256-22	2	Washer-Flat
11	98-4729	1	Lever-Valve	28	3256-23	4	Washer-Flat
12	340-4	4	Adapter	29	3296-29	4	Nut-Lock, NI
12:1	237-30	1	O-Ring	30	3296-42	2	Nut-Lock, NI
12:2	237-79	1	O-Ring	34	100-8818	2	Sleeve-Guard, Hose
13	98-4799	2	Tube-Spacer	35	99-3008	1	HYD Hose ASM
14	98-4744	1	Hose ASM	36	3290-379	9	Tie-Cable
15	98-4735	1	Valve-Check, HYD				
15:1	237-30	1	O-Ring				
15:2	237-79	1	O-Ring				
16	321-14	2	Screw-HH				
17	104-4221	1	Kit-Valve, HYD				
18	95-3209	1	Fitting-Thread, Straight				
18:1	237-79	2	O-Ring				
19	99-3072	1	Valve-Selector				
20	98-4747	1	HYD Hose ASM				
21	322-13	4	Screw-HH				

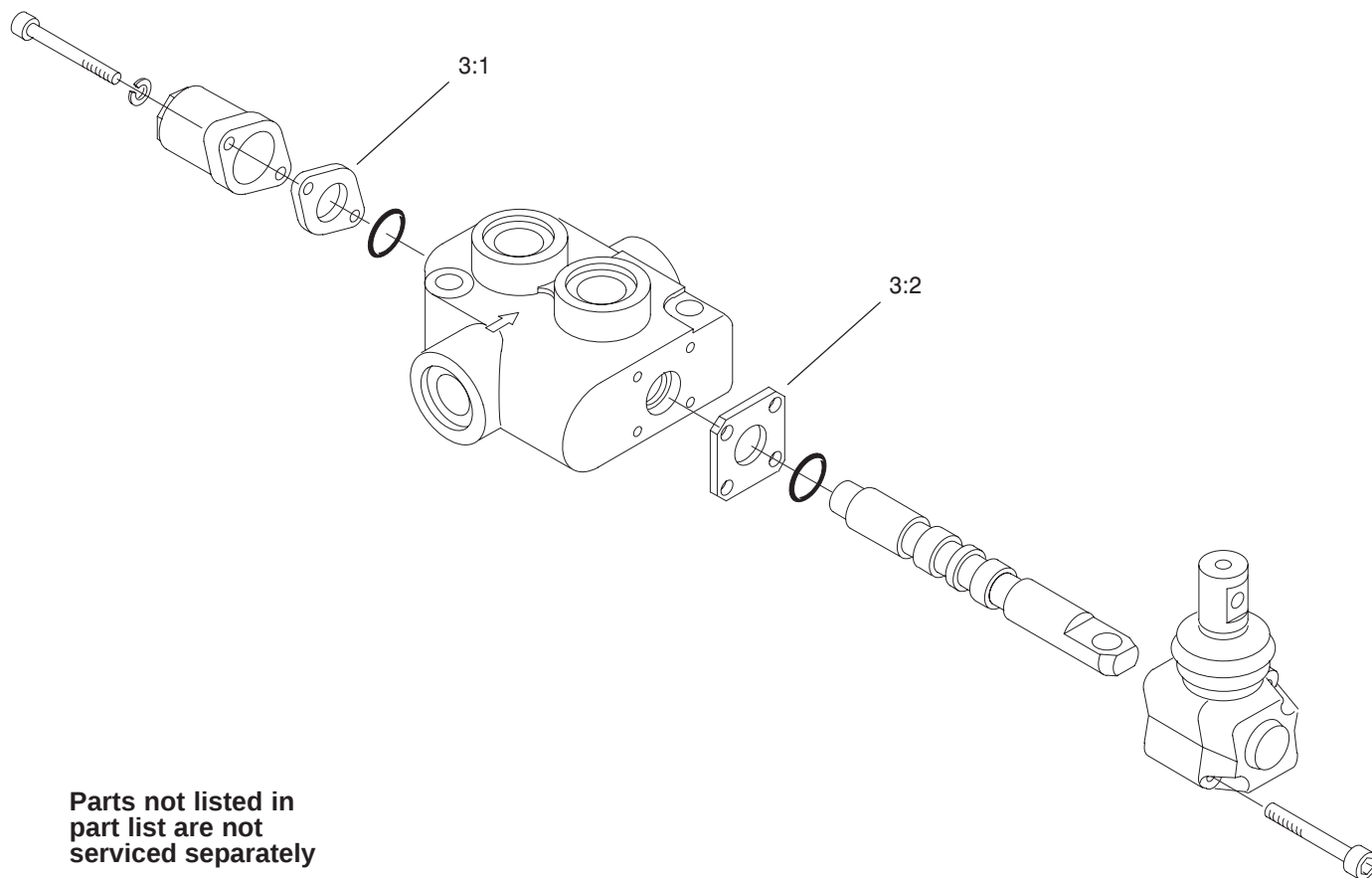


Sheet No.:A4
C-2981

Hydraulic Auxiliary Valve No. 99-3077

Ref. No.	Part No.	Qty.	Description
3	99-4391	1	Kit-Seal
3:1	99-3074	1	Gasket
3:2	99-3075	3	Gasket

Ref. No.	Part No.	Qty.	Description

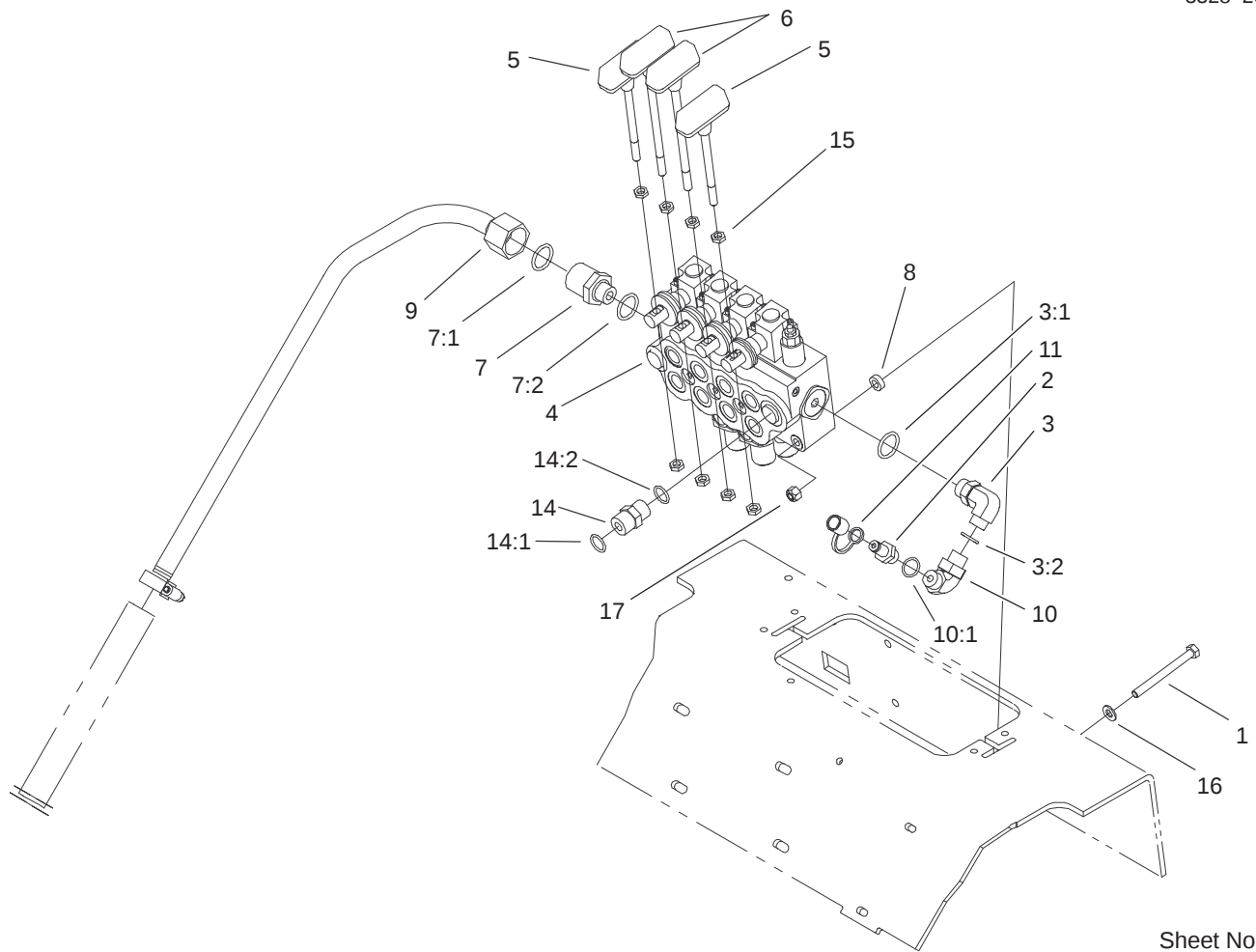


Sheet No.:A6
C-2983

Hydraulic Selector Valve Assembly No. 99-3072

Ref. No.	Part No.	Qty.	Description
3	99-4391	1	Kit-Seal
3:1	99-3074	1	Gasket
3:2	99-3075	3	Gasket

Ref. No.	Part No.	Qty.	Description



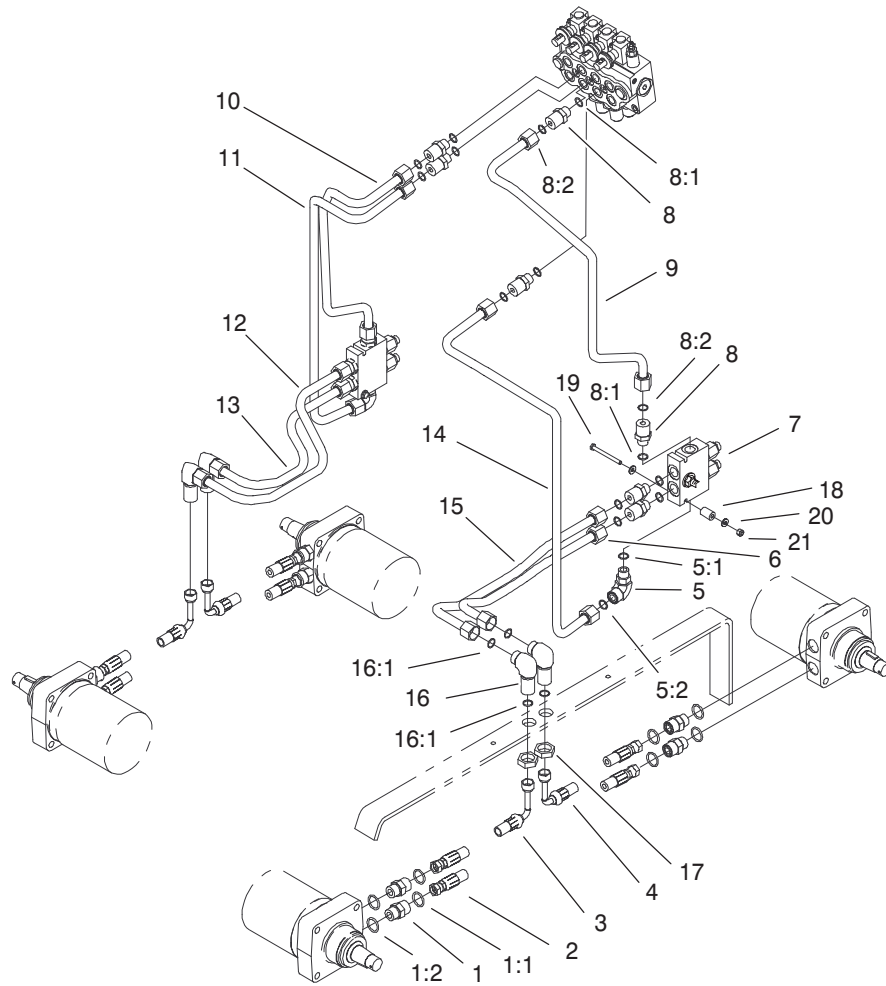
Sheet No.:10

4-Spool Valve Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	322-20	3	Screw-HH				
2	86-5480	1	Nipple-Test				
3	340-18	1	Fitting-HYD, 90°				
3:1	237-79	1	O-Ring				
3:2	237-22	1	O-Ring				
4	99-3070	1	Valve-HYD, 4-Spool				
5	98-4671	2	Cylinder Handle ASM				
6	98-4670	2	Drive Handle ASM				
7	98-9921	1	Fitting-Thread, Straight				
7:1	237-145	1	O-Ring				
7:2	237-79	1	O-Ring				
8	98-4695	3	Spacer				
9	99-3021	1	HYD Tube ASM				
10	340-159	1	Fitting-HYD, 90°				
10:1	237-22	2	O-Ring				
11	354-79	1	Cap-Dust, Yellow				
14	340-4	2	Adapter				
14:1	237-30	1	O-Ring				
14:2	237-79	1	O-Ring				
15	42-9580	8	Nut-Hex				
16	3256-23	3	Washer-Flat				
17	3296-29	3	Nut-Lock, NI				

Sheet No.:A7
C-2984

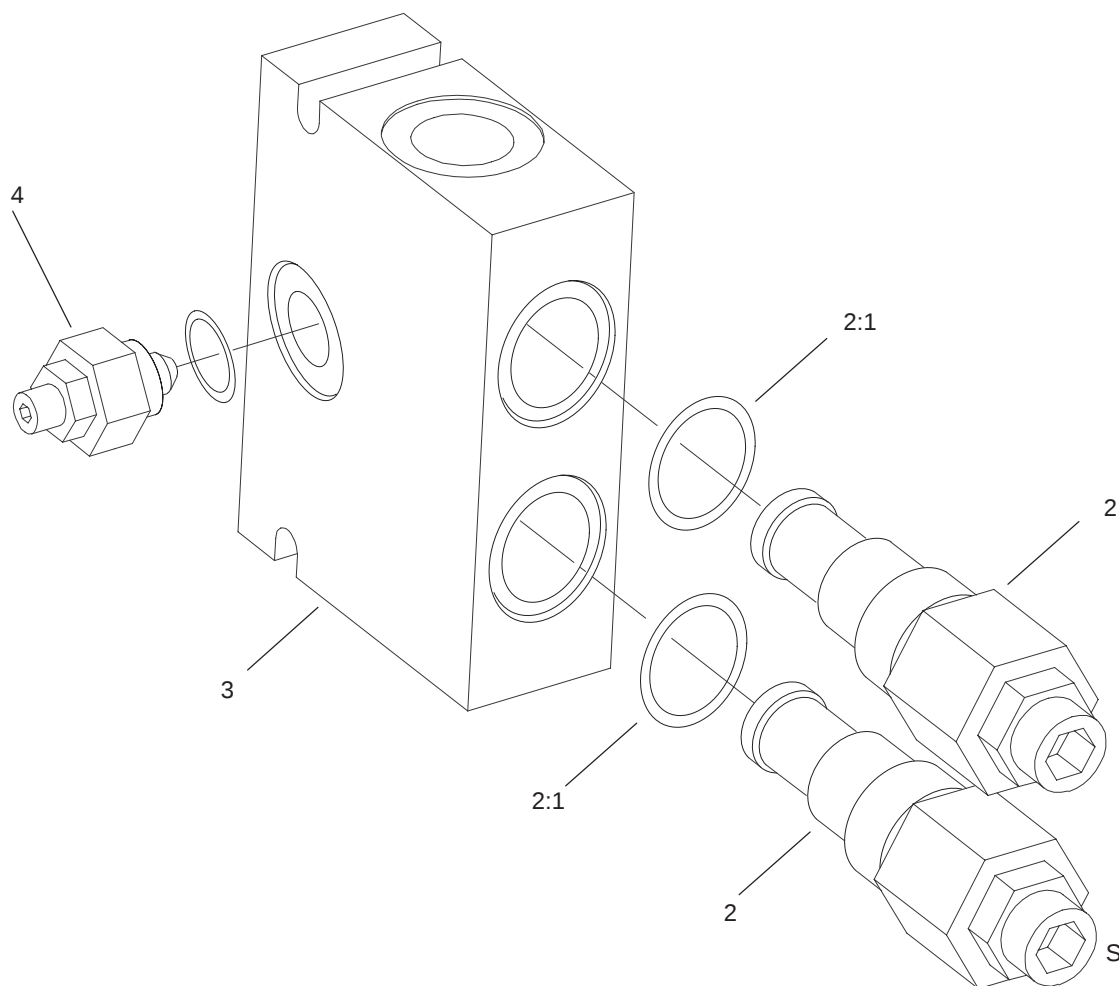
Ref. No.	Part No.	Qty.	Description



Sheet No.:12

Hydraulic Motor Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	340-7	8	Adapter	19	321-23	2	Screw-HH
1:1	237-65	1	O-Ring	20	3256-22	4	Washer-Flat
1:2	237-80	1	O-Ring	21	3296-42	2	Nut-Lock, NI
2	99-3012	2	HYD Hose ASM				
3	99-3010	2	HYD Hose ASM				
4	99-3011	2	HYD Hose ASM				
5	340-153	2	Fitting-HYD				
5:1	237-79	1	O-Ring				
5:2	237-151	1	O-Ring				
6	99-3022	1	HYD Tube ASM				
7	99-3040	2	Valve-Counterbalance				
8	340-155	10	Fitting-HYD				
8:1	237-79	1	O-Ring				
8:2	237-151	1	O-Ring				
9	99-3027	1	HYD Tube ASM				
10	99-3024	1	HYD Tube ASM				
11	99-3029	1	HYD Tube ASM				
12	99-3025	1	HYD Tube ASM				
13	99-3028	1	HYD Tube ASM				
14	99-3023	1	HYD Tube ASM				
15	99-3026	1	HYD Tube ASM				
16	340-72	4	Fitting-HYD, Bulkhead, 90°				
16:1	237-65	2	O-Ring				
17	340-74	4	Locknut-Bulkhead				
18	99-3057	2	Spacer-Valve				



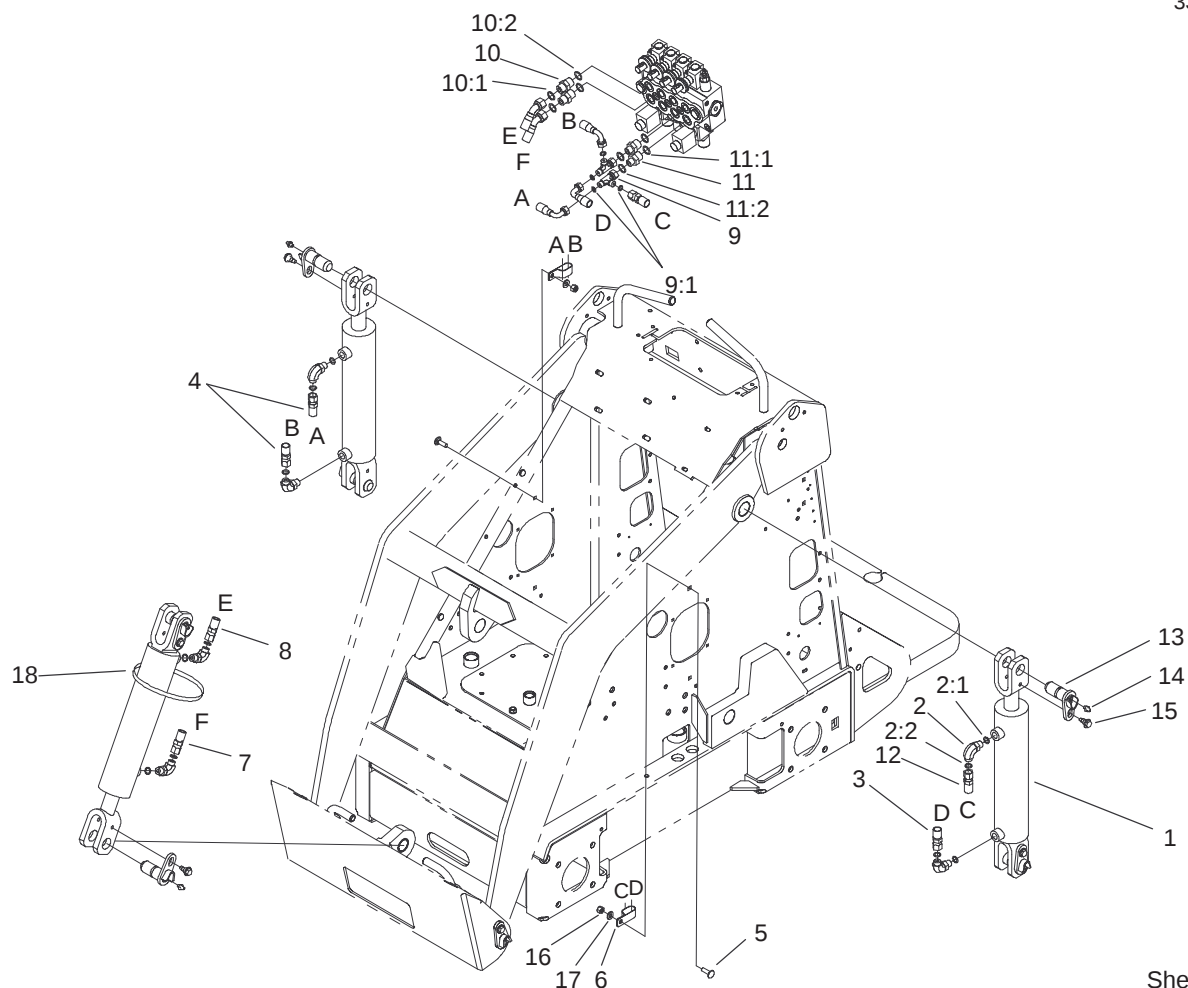
Sheet No.: A8
C-3005

Counterbalance Valve Assembly No. 99-3040

Ref. No.	Part No.	Qty.	Description
*1	105-4099	1	Kit-Seal
2	99-3271	2	Valve-Cartridge
2:1	98-2712	1	Kit-Seal
3	100-8864	1	Manifold ASM
4	100-8865	1	Needle Valve ASM

Ref. No.	Part No.	Qty.	Description

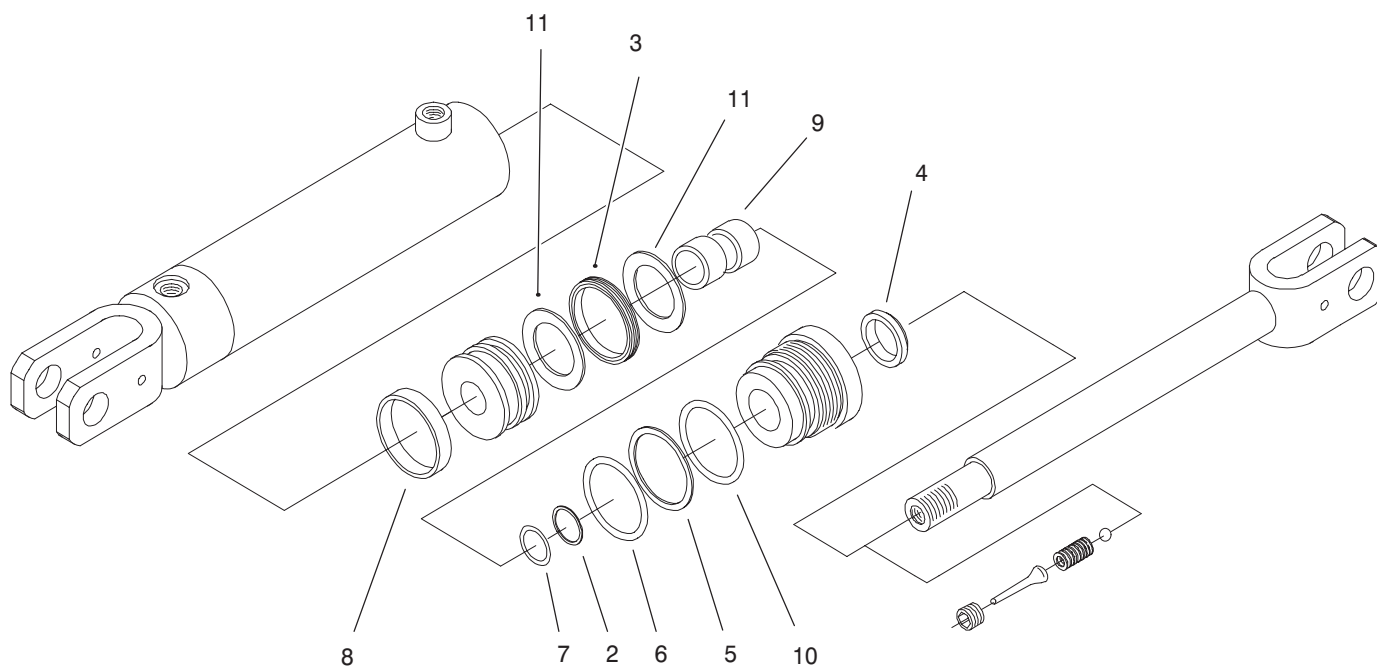
* Not illustrated



Sheet No.:13

Hydraulic Cylinder Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	100-4163	3	Kit-Cylinder
2	340-82	6	Adapter
2:1	237-42	1	O-Ring
2:2	237-21	1	O-Ring
3	98-4748	1	HYD Hose ASM
4	98-4725	2	HYD Hose ASM
5	3230-2	2	Screw-CARR
6	2412-137	2	Clamp-Tube
7	98-4726	1	Hose-HYD
8	98-4727	1	Hose-HYD
9	340-151	2	Fitting
9:1	237-75	3	O-Ring
10	340-3	2	Adapter
10:1	237-22	1	O-Ring
10:2	237-79	1	O-Ring
11	340-133	2	Adapter
11:1	237-79	1	O-Ring
11:2	237-21	1	O-Ring
12	99-3109	1	HYD Hose ASM
13	99-1414	6	Pin-Pivot
14	302-5	6	Fitting-Grease
15	99-5105	6	Bolt-Shoulder
16	3296-29	2	Nut-Lock, NI
17	3256-23	2	Washer-Flat
18	3334-945	1	Tie-Cable


$$1-\sqrt{2-11}$$

**Parts not listed in
part list are not
serviced separately**

Sheet No.:A9

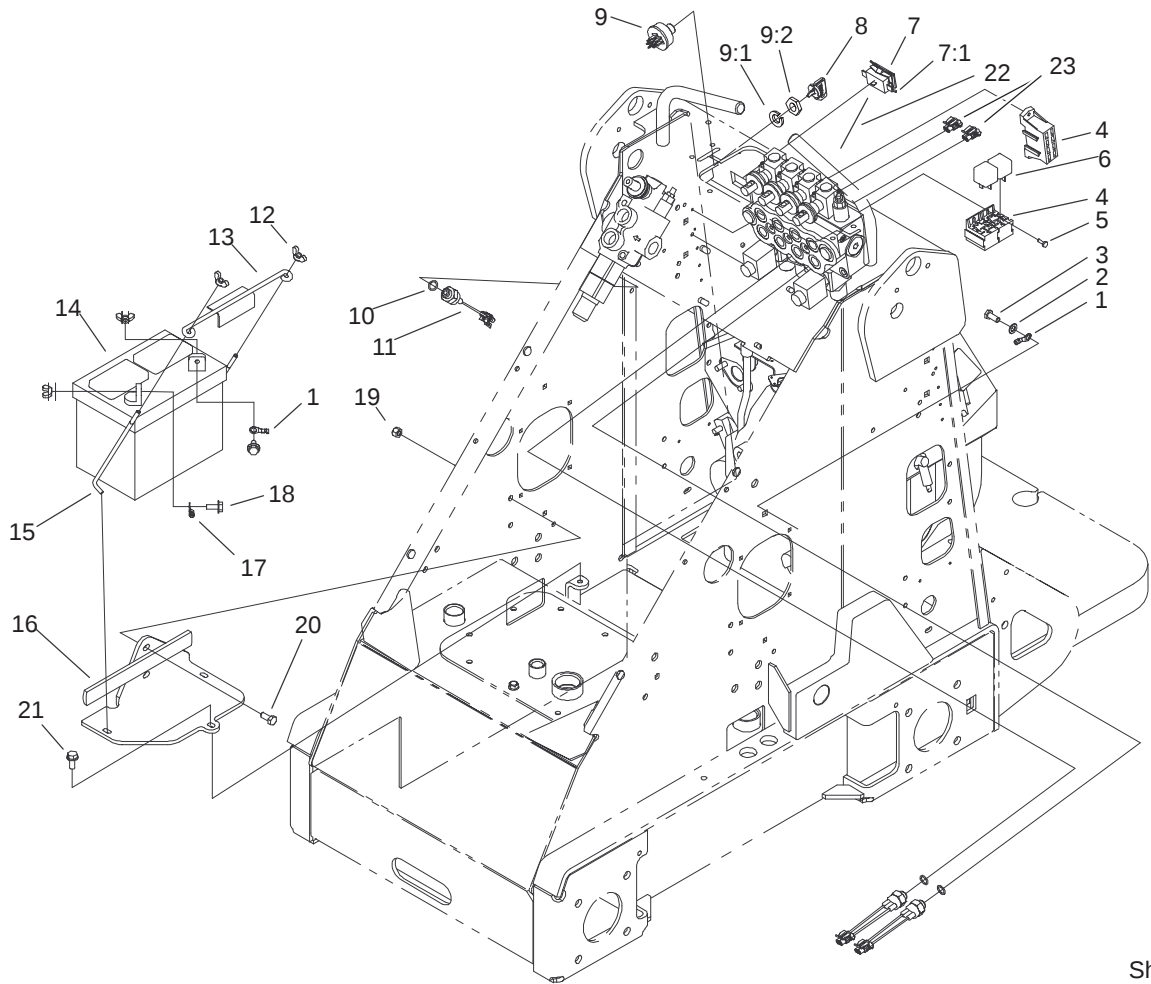
C-2985

Hydraulic Cylinder Kit Assembly No. 100-4163

Ref. No.	Part No.	Qty.	Description
☆1 1	99-3065	1 1	Cylinder-HYD Kit-Seal

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



Sheet No.:16

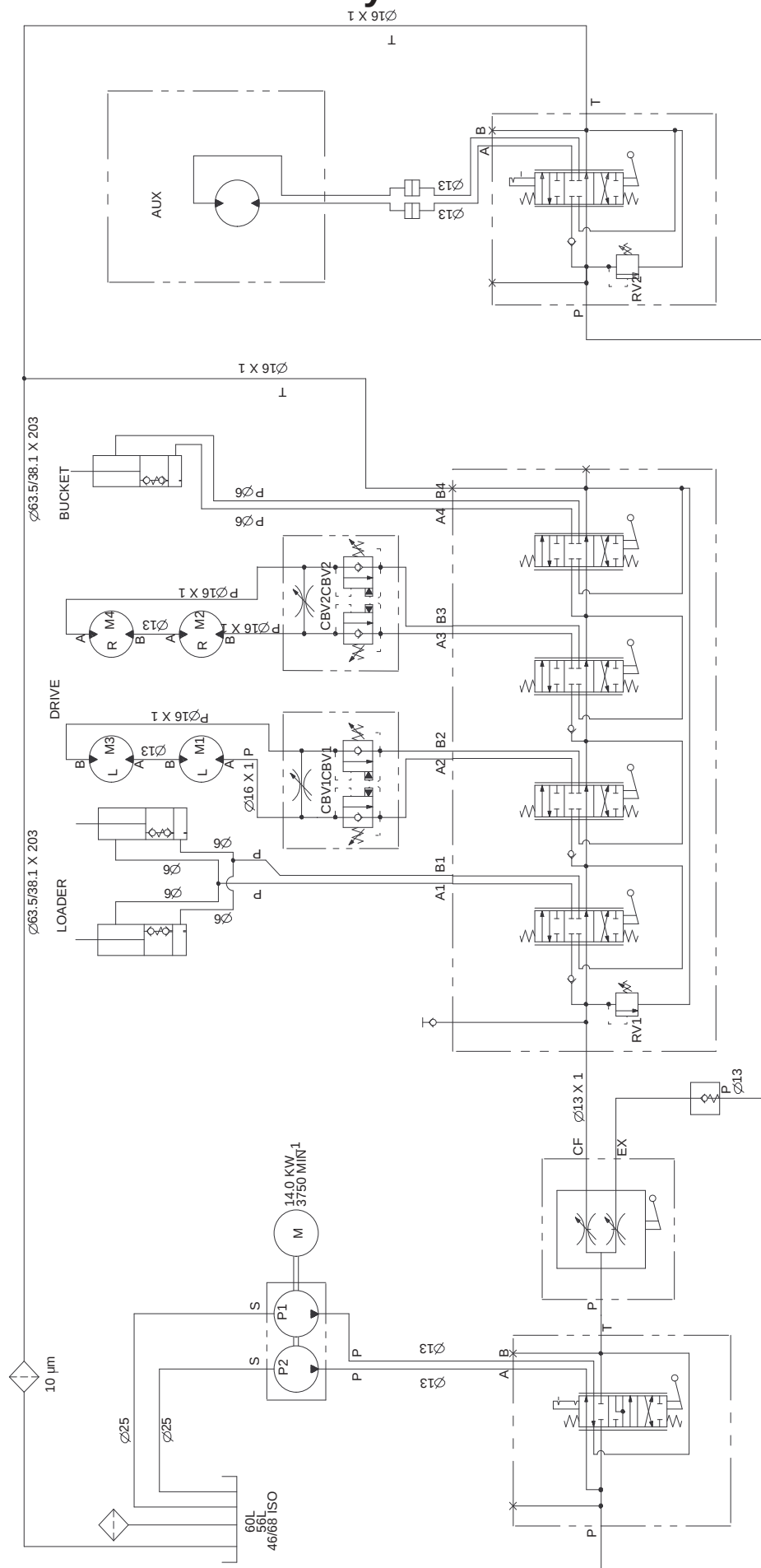
Electrical Component Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	111075	1	Wire ASM	23	99-1433	2	Connector-Female
2	3255-8	1	Washer-Lock	*99	3290-381	6	Tie-Cable
3	33114-020	3	Screw-HH				
4	104-7411	1	Harness-Wire				
5	32144-87	3	Screw-Forming, Thread				
6	98-7249	2	Relay				
7	104-7428	1	Hourmeter				
7:1	104-4234	1	Clip-Mounting				
8	63-8360	2	Key-Ignition				
9	111216	1	Ignition Switch ASM				
9:1	9201604	1	Washer-Lock, Internal				
9:2	101884	1	Nut				
10	237-42	3	O-Ring				
11	72-4310	3	Switch				
12	32103-22	4	Nut-Wing				
13	113010	1	Holddown-Battery				
14	94-1867	1	Battery				
15	99-5027	2	Retainer-Battery				
16	99-3060-03	1	Battery Mount ASM				
17	100-1712	1	Cable-Positive				
18	3234-4	2	Screw-HHF				
19	3296-29	2	Nut-Lock, NI				
20	322-4	2	Screw-HH				
21	32144-70	1	Screw-HH				
22	104-7408	1	Wire-Hourmeter				

* Not illustrated



Hydraulic Schematic



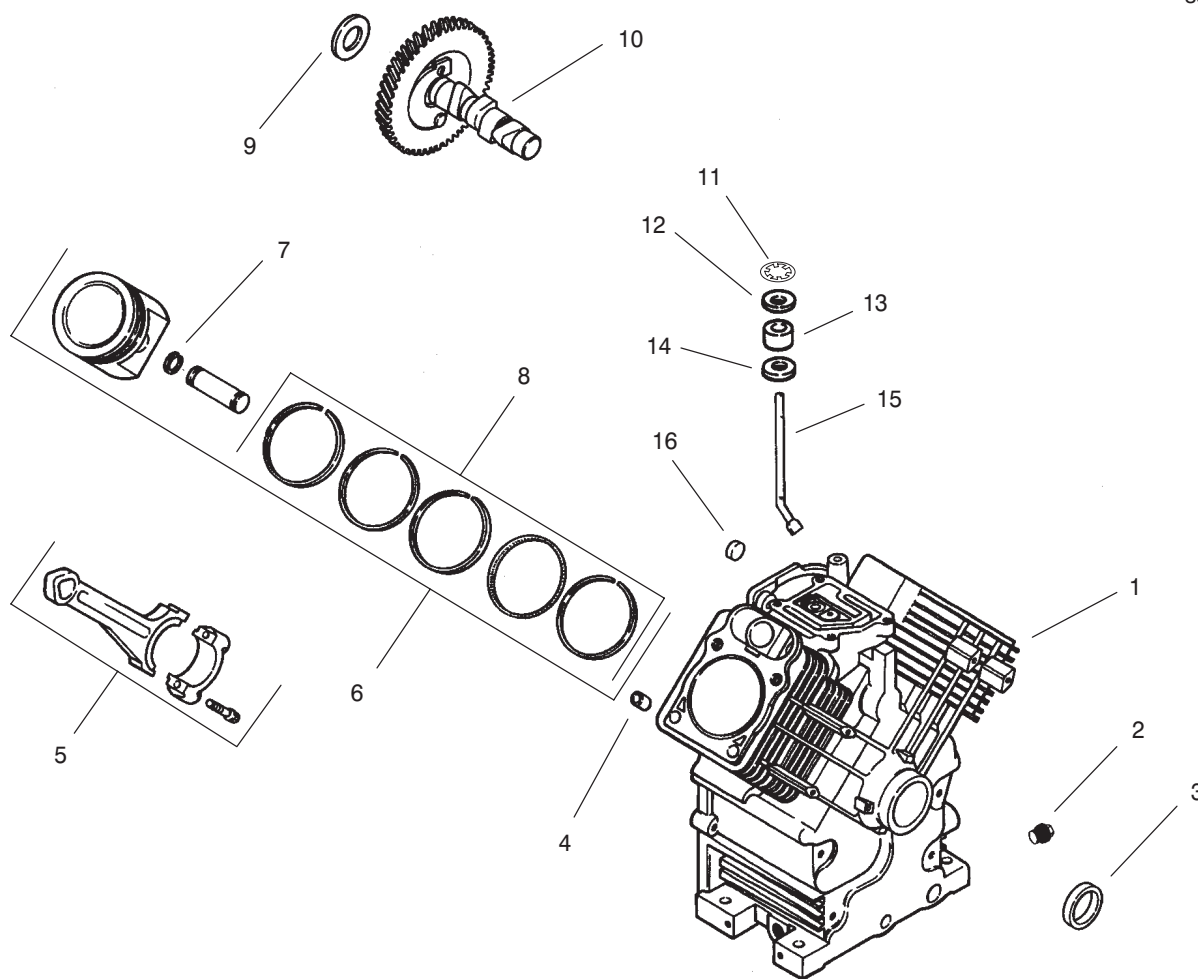
DISPLACEMENT AND PRESSURE CHART							
	COMPONENT/DISPLACEMENT		PRESSURE		FLOWRATE*		
	COMPONENT	CU IN/REV	CU CM/REV	PSI	BARS	GPM	LPM
1	0.65 CU IN	9 CC				3.4	31.8
2	0.24 CU IN	1 CC				3.7	34.0
3	1.1 M3	29.1 CU IN	476 CC				
4	2.2 M3	29.1 CU IN	476 CC				
5	3.3 M3	29.1 CU IN	476 CC	3000 PSI	207 BARS		
6	4.4 M3	29.1 CU IN	476 CC	3000 PSI	207 BARS		
7	5.5 M3	29.1 CU IN	476 CC	3000 PSI	207 BARS		
8	6.6 M3	29.1 CU IN	476 CC	1000 PSI	69 BARS		
9	7.7 M3	29.1 CU IN	476 CC				
10	8.8 M3	29.1 CU IN	476 CC				
11	9.9 M3	29.1 CU IN	476 CC				
12	11.0 M3	29.1 CU IN	476 CC				
13	12.1 M3	29.1 CU IN	476 CC				
14	13.2 M3	29.1 CU IN	476 CC				
15	14.3 M3	29.1 CU IN	476 CC				
16	15.4 M3	29.1 CU IN	476 CC				
17	16.5 M3	29.1 CU IN	476 CC				
18	17.6 M3	29.1 CU IN	476 CC				
19	18.7 M3	29.1 CU IN	476 CC				
20	19.8 M3	29.1 CU IN	476 CC				
21	20.9 M3	29.1 CU IN	476 CC				
22	22.0 M3	29.1 CU IN	476 CC				
23	23.1 M3	29.1 CU IN	476 CC				
24	24.2 M3	29.1 CU IN	476 CC				
25	25.3 M3	29.1 CU IN	476 CC				
26	26.4 M3	29.1 CU IN	476 CC				
27	27.5 M3	29.1 CU IN	476 CC				
28	28.6 M3	29.1 CU IN	476 CC				
29	29.7 M3	29.1 CU IN	476 CC				
30	30.8 M3	29.1 CU IN	476 CC				
31	31.9 M3	29.1 CU IN	476 CC				
32	33.0 M3	29.1 CU IN	476 CC				
33	34.1 M3	29.1 CU IN	476 CC				
34	35.2 M3	29.1 CU IN	476 CC				
35	36.3 M3	29.1 CU IN	476 CC				
36	37.4 M3	29.1 CU IN	476 CC				
37	38.5 M3	29.1 CU IN	476 CC				
38	39.6 M3	29.1 CU IN	476 CC				
39	40.7 M3	29.1 CU IN	476 CC				
40	41.8 M3	29.1 CU IN	476 CC				
41	42.9 M3	29.1 CU IN	476 CC				
42	44.0 M3	29.1 CU IN	476 CC				
43	45.1 M3	29.1 CU IN	476 CC				
44	46.2 M3	29.1 CU IN	476 CC				
45	47.3 M3	29.1 CU IN	476 CC				
46	48.4 M3	29.1 CU IN	476 CC				
47	49.5 M3	29.1 CU IN	476 CC				
48	50.6 M3	29.1 CU IN	476 CC				
49	51.7 M3	29.1 CU IN	476 CC				
50	52.8 M3	29.1 CU IN	476 CC				

*FLOWRATE CALCULATED AT 3600 RPM AND 98% EFFICIENCY.

Ref. No.	Part No.	Qty.	Description
1	24 014 90-S	1	Crankshaft (Includes 2)
2	52 139 09-S	1	Plug-Cup

Ref. No.	Part No.	Qty.	Description

26

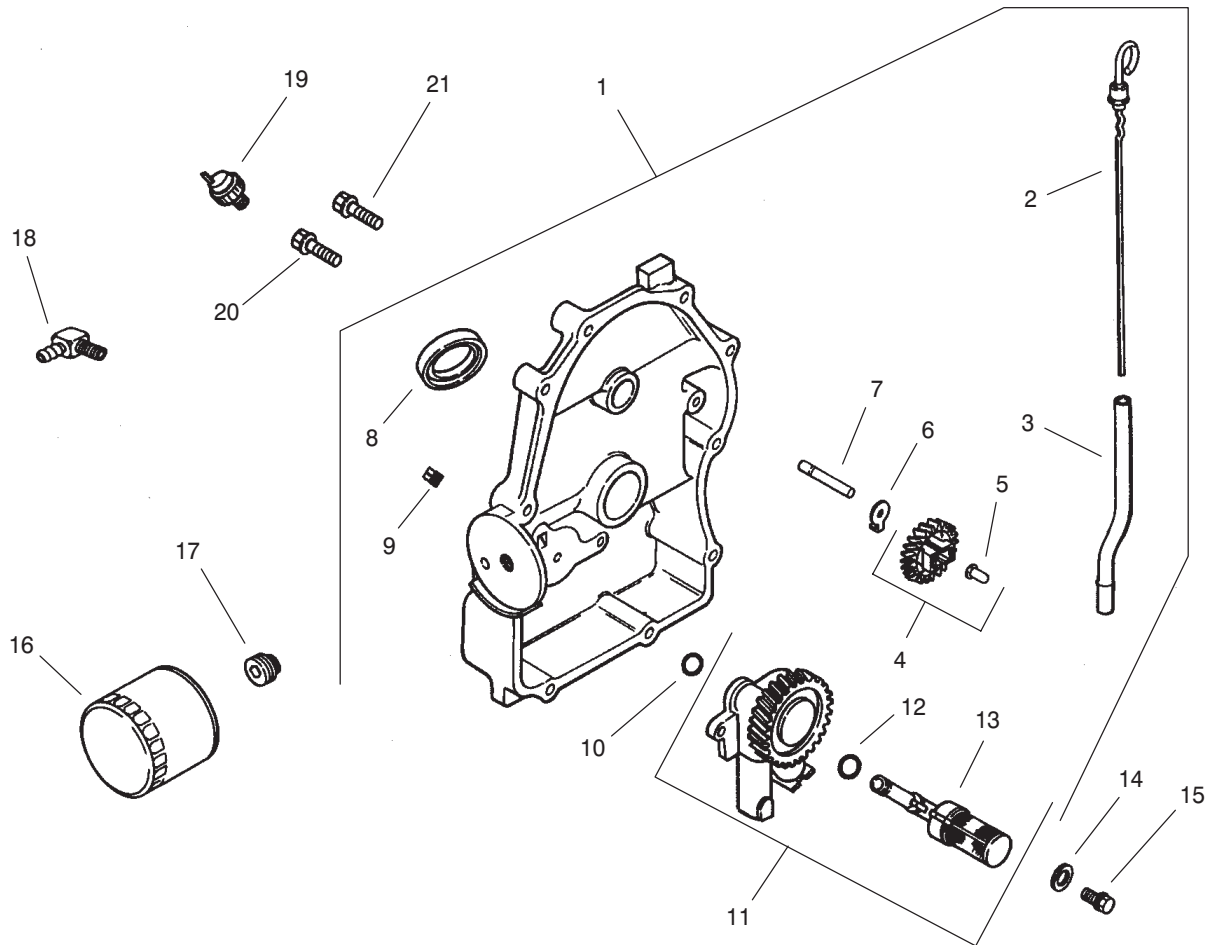


Group 2 – Crankcase Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1		1	Block-Cylinder (Use Miniblock 24 782 15)
2	52 139 02-S	2	Plug-Drain
3	24 032 01-S	1	Seal-Oil, Front
4	12 380 13-S	6	Pin-Dowel, Locating
5	24 067 13-S	2	Rod-Connecting (Std.)
	24 067 14-S	2	Rod-Connecting (.25)
6	24 874 01-S	2	Set-Piston w/Ring (Std.) (Includes 7, 8)
	24 874 14-S	2	Piston w/Ring (.08)
	24 874 18-S	2	Set-Piston w/Ring (.25)
	24 874 19-S	2	Set-Piston w/Ring (.50)
7	24 018 01-S	4	Retainer-Pin, Piston
8	24 108 11-S	2	Set-Ring (Std.)
	24 108 12-S	2	Set-Ring (.25)
	24 108 13-S	2	Set-Ring (.50)
9	12 422 09-S	A/R	Shim-Camshaft, Red
	12 422 13-S	A/R	Shim-Camshaft, Black
	12 422 07-S	A/R	Shim-Camshaft, White
	12 422 08-S	A/R	Shim-Camshaft, Blue

Ref. No.	Part No.	Qty.	Description
	12 422 10-S	A/R	Shim-Camshaft, Yellow
	12 422 11-S	A/R	Shim-Camshaft, Green
	12 422 12-S	A/R	Shim-Camshaft, Gray
10	24 012 05-S	1	Camshaft
11	24 018 09-S	1	Ring-Retainer
12	M-931010-S	1	Washer-Flat
13	28 032 09-S	1	Seal-Shaft, Governor Cross
14	24 468 15-S	1	Washer-Plain
15	24 144 33-S	1	Shaft-Cross, Governor
16	52 139 09-S	1	Plug-Cup

Obtain parts from Kohler

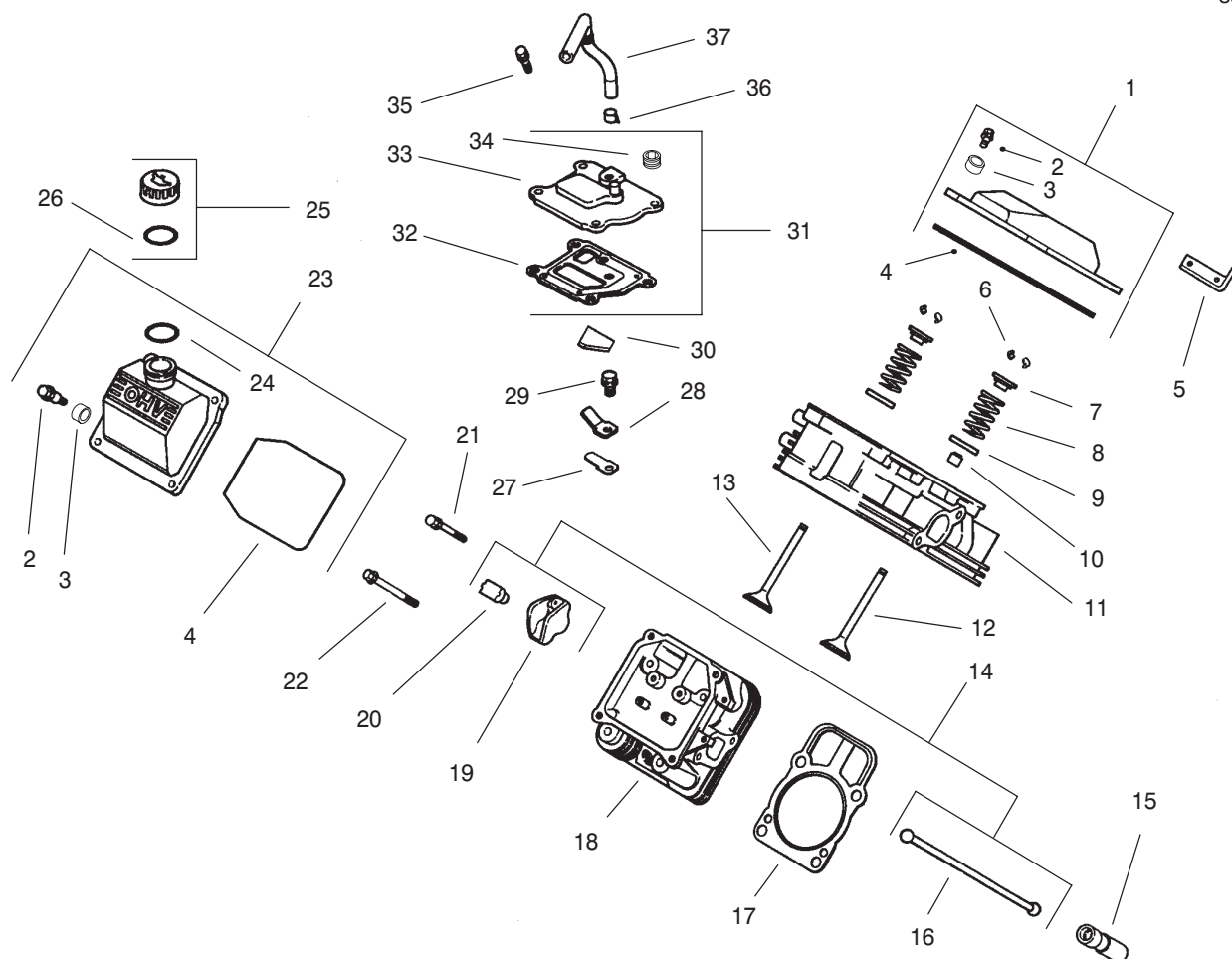


Group 3 – Oil Pan/Lubrication Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1	24 009 82-S	1	Closure Plate ASM (Includes 2-13)
2	24 038 10-S	1	Dipstick
3	24 123 16-S	1	Tube-Dipstick
4	24 043 12-S	1	Kit-Gear, Governor (Includes 5)
5	12 380 01-S	1	Pin-Regulating, Governor
6	52 448 02-S	1	Tab-Locking
7	12 144 02-S	1	Shaft-Gear, Governor
8	52 032 08-S	1	Seal-Oil (PTO end)
9	X-75-23	2	Plug-Pipe, 1/8"
10	24 153 08-S	1	O-Ring
11	24 393 10-S	1	Oil pump ASM (Includes 12,13)
12	24 153 01-S	1	O-Ring, Oil Pick-up
13	24 381 04-S	1	Pick-up, Oil
14	M-631005-S	2	Washer-Plain, 6 mm
15	M-645025-S	2	Screw-HF
16	52 050 02-S	1	Filter-Oil
17	24 136 01-S	1	Nipple-Filter, Oil
18	25 155 02-S	1	Connector
19	24 099 03-S	1	Switch-Pressure

Ref. No.	Part No.	Qty.	Description
20	24 086 16-S	9	Screw-HF
21	24 086 17-S	1	Screw-HF

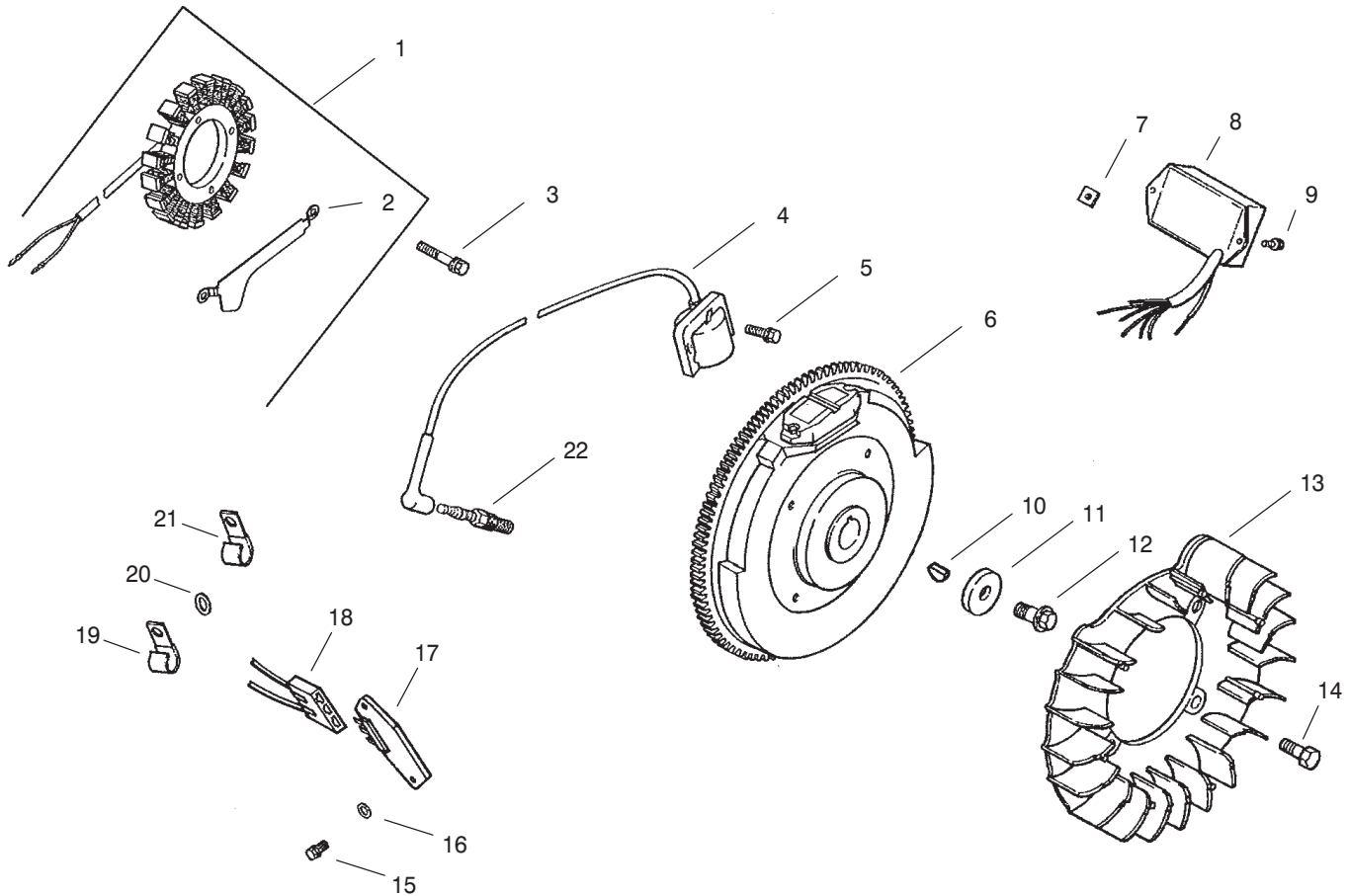
Obtain parts from Kohler



Group 4 – Head/Valve/Breather Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 755 74-S	1	Kit-Valve cover, Plain (Includes 3-4)	21	M-640034-S	4	Screw-HF
2	M-651030-S	4	Screw-Shoulder	22	12 086 16-S	8	Screw-HF
3	24 112 08-S	4	Spacer	23	24 755 75-S	1	Kit-Valve Cover, Oil Fill (Includes 2-4, 24)
4	24 153 16-S	1	O-Ring-Caover, Valve	24	24 153 09-S	1	O-Ring
5	24 445 01-S	1	Strap-Lifting	25	24 755 46-S	1	Kit-Cap, Oil Fill (Includes 26)
6	12 755 03-S	4	Kit-Retainer	26	12 153 03-S	1	O-Ring-Cap, Oil Fill
7	12 173 01-S	4	Cap-Spring, Valve	27	24 402 03-S	1	Reed- Breather
8	24 089 02-S	4	Spring-Valve	28	12 018 01-S	1	Retainer-Reed, Breather
9	235011-S	4	Retainer-Spring	29	M-545010-S	1	Screw-HF
10	24 032 05-S	2	Seal-Stem, Valve	30	24 050 01-S	1	Filter-Breather
11	24 318 09-S	1	#1 Cylinder Head ASM	31	24 033 01-S	1	Kit-Breather (Includes 32-34)
12	24 017 01-S	2	Valve-Intake (Std.)	32	24 041 23-S	1	Gasket-Breather
	24 017 02-S	2	Valve-Intake (.25)	33	24 096 58-S	1	Cover-Breather
13	24 016 01-S	2	Valve-Exhaust (Std.)	34	X-75-23-S	1	Plug-Pipe, Allen Head
	24 016 02-S	2	Valve-Exhaust (.25)	35	M-645020-S	4	Screw-HF
14	24 755 66-S	1	Kit-Train, Valve (Includes 16,19, 20)	36	25 237 08-S	2	Clamp-Hose
15	12 351 01-S	4	Lifter-Valve	37	24 326 31-S	1	Hose-Breather
16	24 411 05-S	4	Rod-Push				
17	24 041 08-S	2	Gasket-Head, Cylinder				
18	24 318 10-S	1	#2 Cylinder Head ASM				
19	25 186 01-S	4	Arm-Rocker				
20	24 599 01-S	4	Pivot-Arm, Rocker				

Obtain parts from Kohler



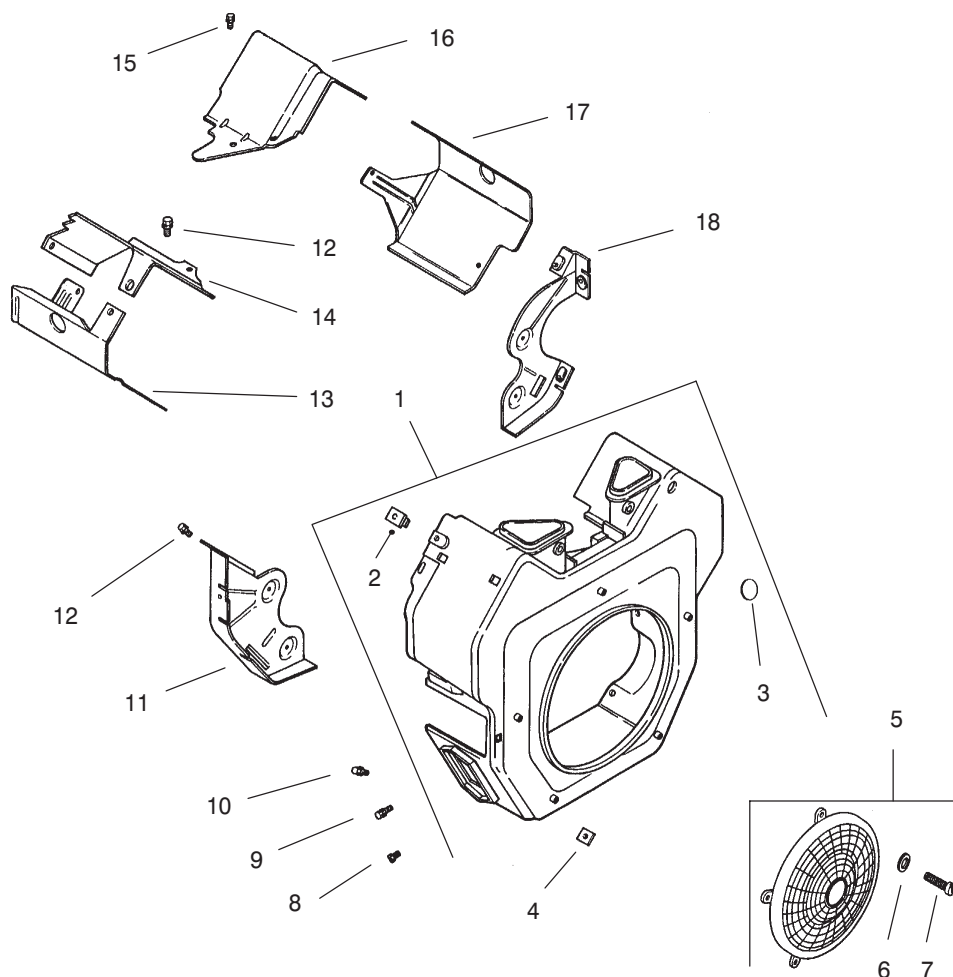
Group 5 – Ignition/Electrical Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1	54 755 09-S	1	Kit-Stator, 15 amp (Incl. 2)
2	24 126 71-S	1	Bracket-Wire, Stator
3	M-548025-S	2	Screw-Cap, Hex
4	24 584 15-S	2	Module-Ignition
5	M-561025-S	4	Screw-HSH
6	24 025 05-S	1	Flywheel
7	24 100 02-S	2	Nut-Plastic
8	24 584 09-S	1	Module-Advance, Speed
9	24 086 41-S	2	Screw
10	X-42-15-S	1	Key
11	12 468 03-S	1	Washer-Plain
12	12 086 14-S	1	Screw-HF
13	24 157 03-S	1	Fan

Ref. No.	Part No.	Qty.	Description
14	25 086 47-S	4	Bolt-Shoulder
15	24 086 18-S	2	Screw-Head, Phillips
16	X-25-92-S	2	Washer-Plain
17	25 403 03-S	1	Rectifier-Regulator
18	236602-S	1	Connector
19	47 154 01-S	1	Clip-Cable
20	X-25-63-S	1	Washer-Plain
21	48 154 02-S	1	Clip-Cable
22	12 132 06-S	2	Plug-Spark
*	25 518 12-S	1	Lead-Black, (4" – 18 gauge – insulated grip barrel eyelet terminals)
*	24 176 42-S	1	Harness-Wiring
*	X-22-11-S	1	Washer-Lock
*	25 454 03-S	1	Tie-Wire

Obtain parts from Kohler

* Not illustrated

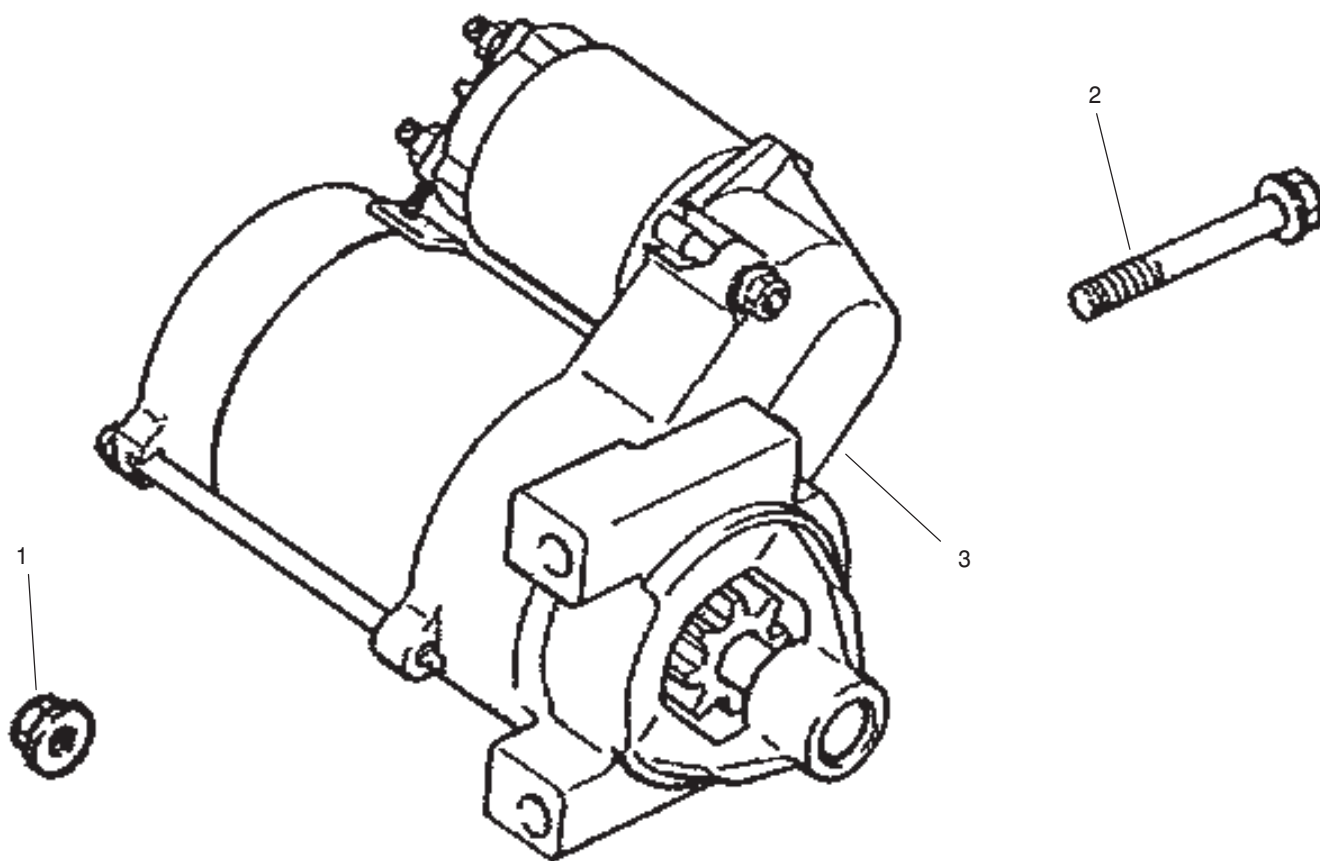


Group 6 – Blower Housing and Baffle Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 027 40-S	1	Housing-Blower (Includes 2-5)	*	24 332 01-S	5	Insert-Threaded
2	24 100 02-S	2	Nut-Plastic	*	24 113 18-S	1	Decal-Screen, Grass
3	25 139 16-S	1	Plug-Button	*	24 113 96-S	1	Decal-22HP
4	24 100 01-S	2	Nut-Plastic				
5	24 755 81-S	1	Kit-Guard, Fixed (Includes 6, 7, 24 332 01-S & 24 113 18-S)				
6	24 468 10-S	5	Washer-Plain				
7	24 086 35-S	5	Screw-Head, Pan				
8	M-551016-S	1	Screw-HF				
9	M-545016-S	5	Screw-HF				
10	M-545020-S	2	Screw-HF				
11	24 146 02-S	1	Plate-Backing, #2 Side				
12	M-645016-S	6	Screw-HF				
13	24 063 20-S	1	Baffle-Cylinder Barrel, #2 Side				
14	24 063 17-S	1	Baffle-Valley, #2 Side				
15	M-545010-S	2	Screw-HF				
16	24 063 24-S	1	Baffle-Valley, #1 Side				
17	24 063 58-S	1	Baffle-Cylinder Barrel, #1 Side				
18	24 146 20-S	1	Plate-Backing, #1 side				

Obtain parts from Kohler

* Not illustrated

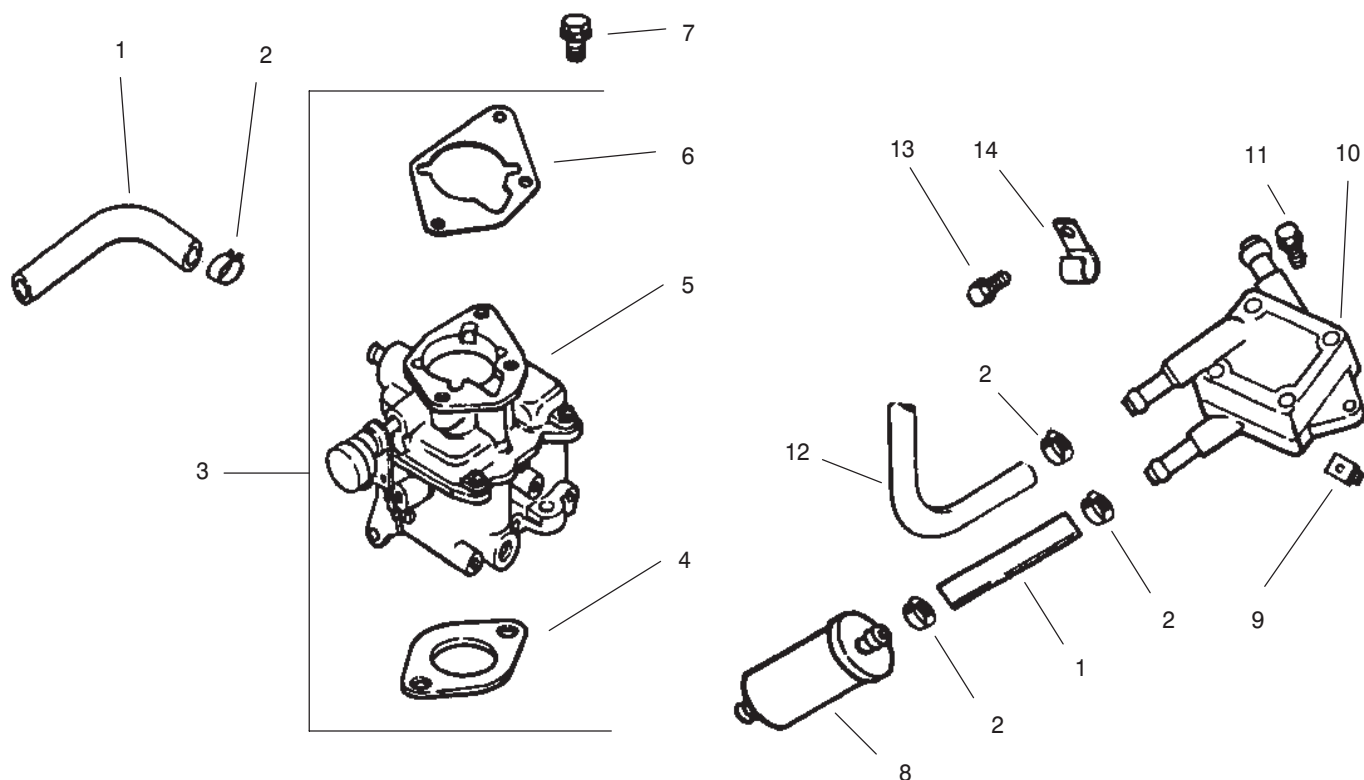


Group 7 – Starter Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1	M-841080-S	1	Nut-HF
2	M-839080-S	2	Screw-HF
3	25 098 08-S	1	Solenoid Shift Starter ASM

Ref. No.	Part No.	Qty.	Description

Obtain parts from Kohler



Group 8 – Fuel System Assembly Kohler CH22S-66559

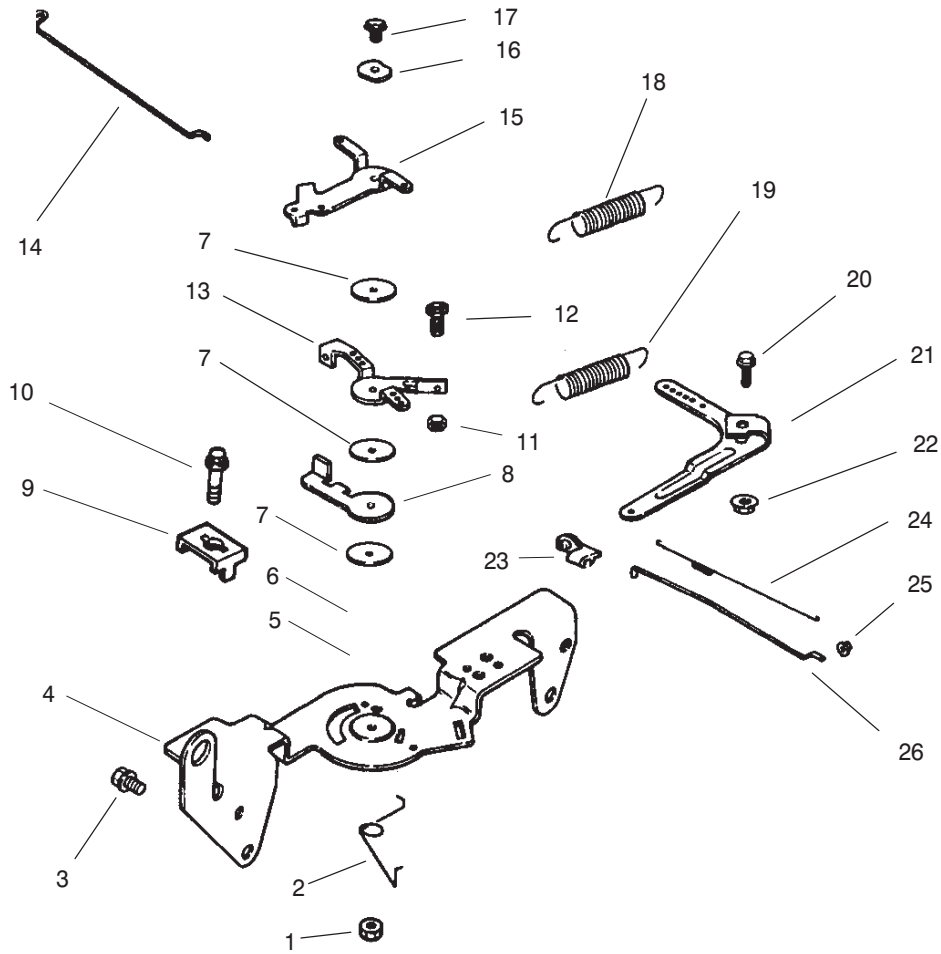
Ref. No.	Part No.	Qty.	Description
1	25 353 10-S	2	Line-Fuel, 9"
2	25 237 14-S	6	Clamp-Hose
3	24 853 32-S	1	Kit-Carburetor w/Gasket (Includes 4-6)
4	24 041 17-S	1	Gasket-Carburetor
†5	24 053 32-S	1	Carburetor ASM (Includes 25 757 01-S, 24 757 02-S, 24 757 03-S, & 24 757 07-S)
6	24 041 06-S	1	Gasket-Base, Air Cleaner
7	M-651030-S	2	Screw-HF
8	24 050 02-S	1	Filter-Fuel
9	24 100 01-S	2	Nut-Plastic
10	24 393 16-S	1	Pump-Fuel, Pulse
11	24 086 12-S	2	Screw
12	24 353 02-S	1	Line-Fuel, 15-1/2"
13	M-650012-S	1	Screw-HF
14	47 154 01-S	1	Clip-Cable
*	24 757 01-S	1	Kit-Soleniod
*	24 757 02-S	1	Kit-Float

Ref. No.	Part No.	Qty.	Description
*	24 757 03-S	1	Kit-Repair, Carburetor
*	24 757 07-S	1	Kit-Repair, Choke

Obtain parts from Kohler

* Not illustrated

† For information only; not available separately

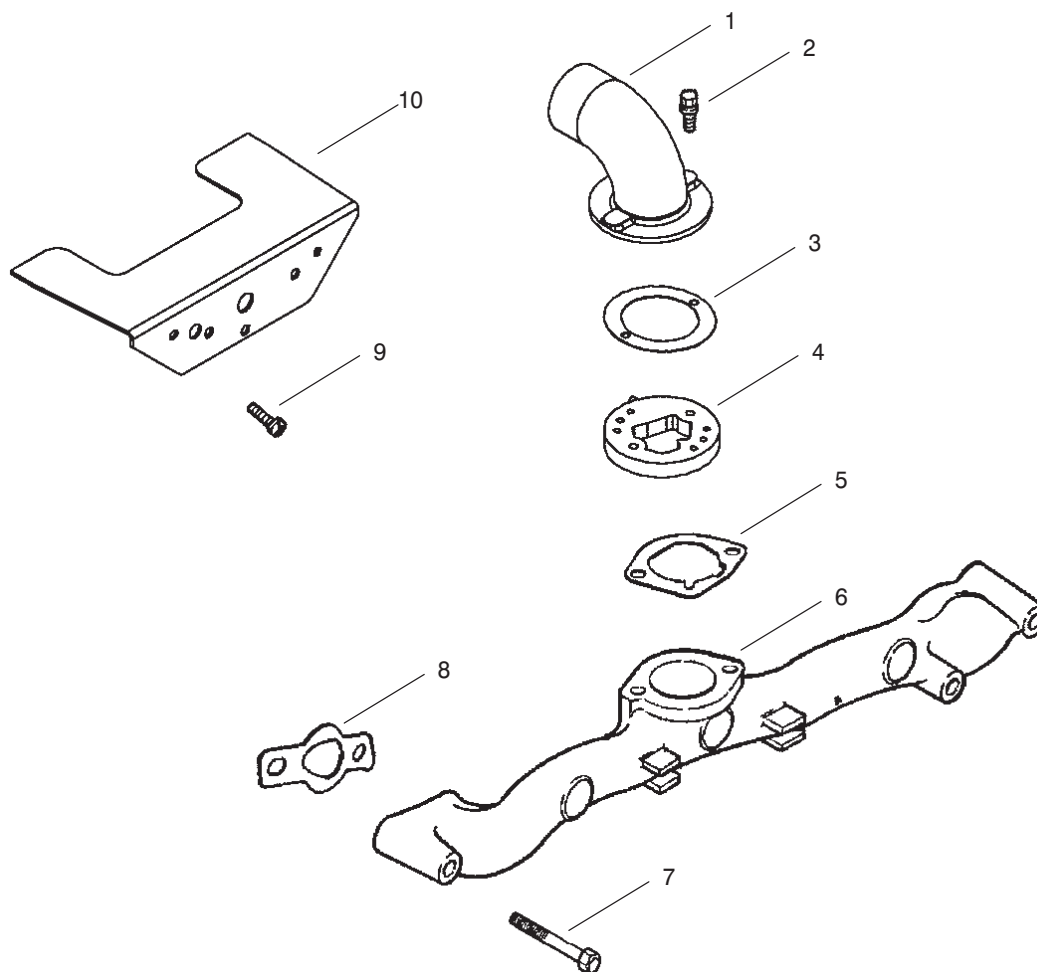


Group 9 – Engine Control Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1	M-547050-S	1	Nut-Lock, Hex
2	24 089 03-S	1	Spring-Return, Choke
3	M-645016-S	4	Screw-HF
4	24 126 56-S	1	Bracket-Control
5	X-20-1-S	1	Washer-Plain
6	M-541050-S	1	Nut-HF
7	24 468 01-S	3	Washer-Plain
8	24 090 07-S	1	Lever-Actuator, Throttle
9	12 237 01-S	2	Clamp-Cable
10	M-545016-S	2	Screw-HF
11	M-446030-S	1	Nut-Hex
12	M-401030-S	1	Screw
13	24 090 03-S	1	Lever-Control, Throttle
14	24 079 02-S	1	Linkage-Choke
15	24 090 05-S	1	Lever-Choke
16	41 468 03-S	1	Washer-Spring
17	M-545020-S	1	Screw-HF
18	24 089 51-S	1	Spring-Limiter, Throttle
19	24 089 46-S	1	Spring-Governor
20	24 211 03-S	1	Bolt-Head, Round
21	24 090 33-S	1	Lever-Governor
22	M-641060-S	1	Nut-HF
23	25 158 11-S	1	Bushing

Ref. No.	Part No.	Qty.	Description
24	24 089 01-S	1	Spring-Linkage
25	25 158 08-S	1	Bushing
26	24 079 01-S	1	Linkage-Throttle

Obtain parts from Kohler



Group 10 – Air Intake/Filtration Assembly Kohler CH22S-66559

Ref. No.	Part No.	Qty.	Description
1	24 029 21-S	1	Adapter-Air Cleaner, Adapter
2	M-639016-S	4	Screw-HF
3	24 041 34-S	1	Gasket-Adapter
4	24 029 26-S	1	Adapter ASM
5	24 041 06-S	1	Gasket-Base, Air Cleaner
6	24 164 14-S	1	Manifold-Intake
7	M-651055-S	4	Screw-HF
8	24 041 01-S	2	Gasket-Manifold, Intake
9	24 086 06-S	2	Screw-Head, Phillips
10	24 314 25-S	1	Shield-Debris
*	25 113 27-S	1	Decal-Cleaner, Air
*	24 146 25-S	1	Decal-22 HP

Obtain parts from Kohler

* Not illustrated

Maintenance Record

[illegible]

Maintenance Record

[illegible]

Maintenance Record

[illegible]

