



Z150

Z-Master[®] with 52" Side Discharge Mower

Model No. 74178—220000313 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
Front Frame Assembly	4	Group 3 – Oil Pan/Lubrication Assembly	
Height of Cut Assembly	6	Kohler CV20S–PS65585	23
Main Frame Assembly	7	Group 4 – Head/Valve/Breather Assembly	
Fuel System Assembly	8	Kohler CV20S–PS65585	24
Parking Brake System Assembly	9	Group 5 – Ignition/Charging Assembly	
Motion Control System Assembly	10	Kohler CV20S–PS65585	26
Hydraulic System Assembly	11	Group 6 – Blower Housing Assembly	
Pump, Idler and Belt Assembly	13	Kohler CV20S–PS65585	27
Engine and Clutch Assembly	14	Group 7 – Starter Assembly	
Electrical System Assembly	15	Kohler CV20S–PS65585	28
Deck Assembly	16	Group 8 – Fuel System Assembly	
Deck Spindle Assembly	17	Kohler CV20S–PS65585	29
Idler, Pulley/Lift Strut and Chain Assembly	18	Group 9 – Engine Control Assembly	
Electrical Schematic	19	Kohler CV20S–PS65585	30
Group 1 – Crankshaft Assembly		Group 10 – Air Intake/Filtration Assembly	
Kohler CV20S–PS65585	20	Kohler CV20S–PS65585	31
Group 2 – Crankcase Assembly		Group 11 – Exhaust Assembly	
Kohler CV20S–PS65585	21	Kohler CV20S–PS65585	32
Group 2 – Crankcase Assembly (Continued)			
Kohler CV20S–PS65585	22		

Accessories

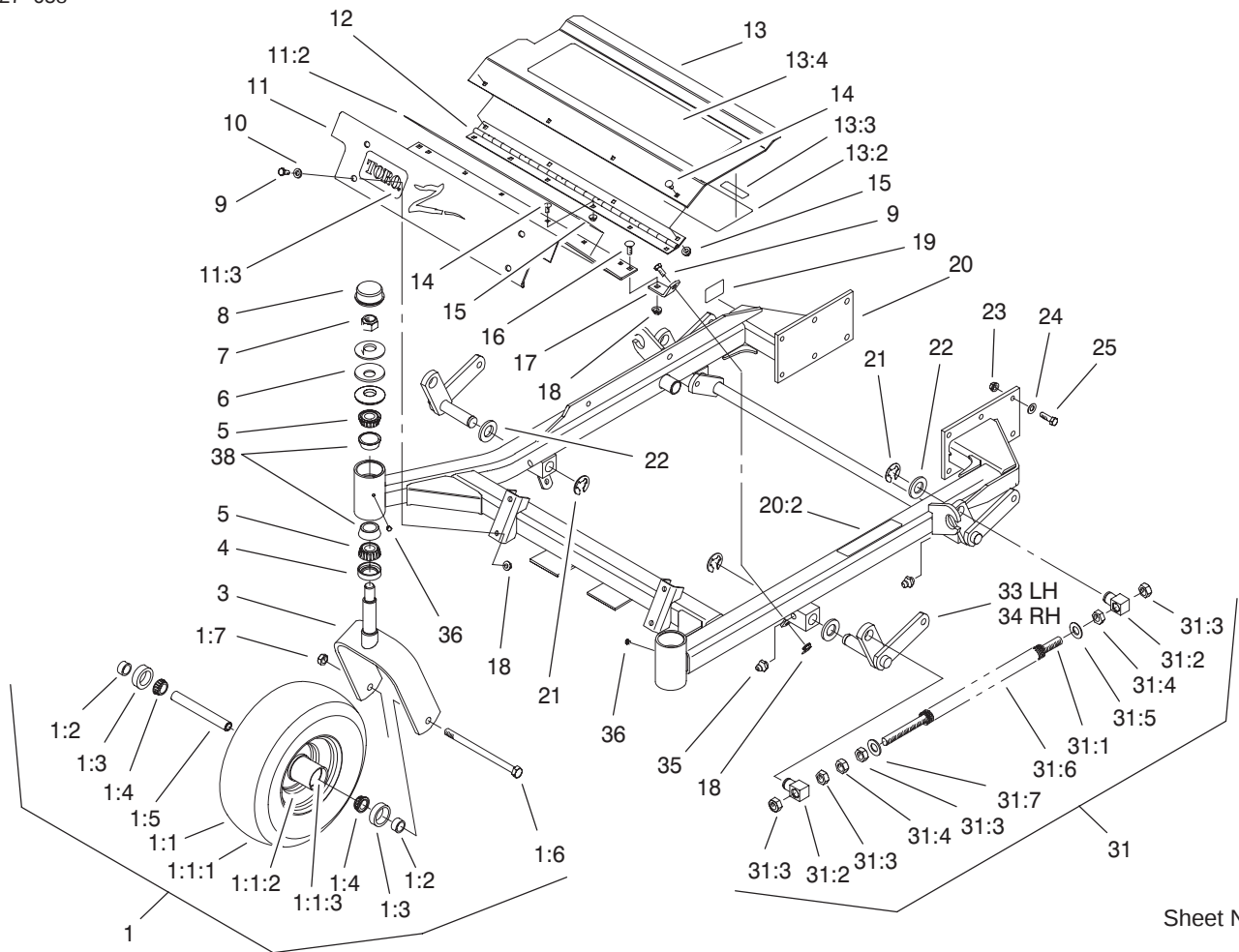
Description	Model / Part No.	Description	Model / Part No.
Recycler Kit	59225	Steel Bagger	30107
Bahaia Mulch Kit	59227	Striping Kit	30121
High Sail Blades		High Suspension Seat	99–8522
(3 required for improved bagging)	56–2390	Z–Stand Kit	105–1621
Atomic Blades		Hitch Kit	99–8924
(3 required for improved mulching)	104–1301		

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

Abbreviation	Meaning
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

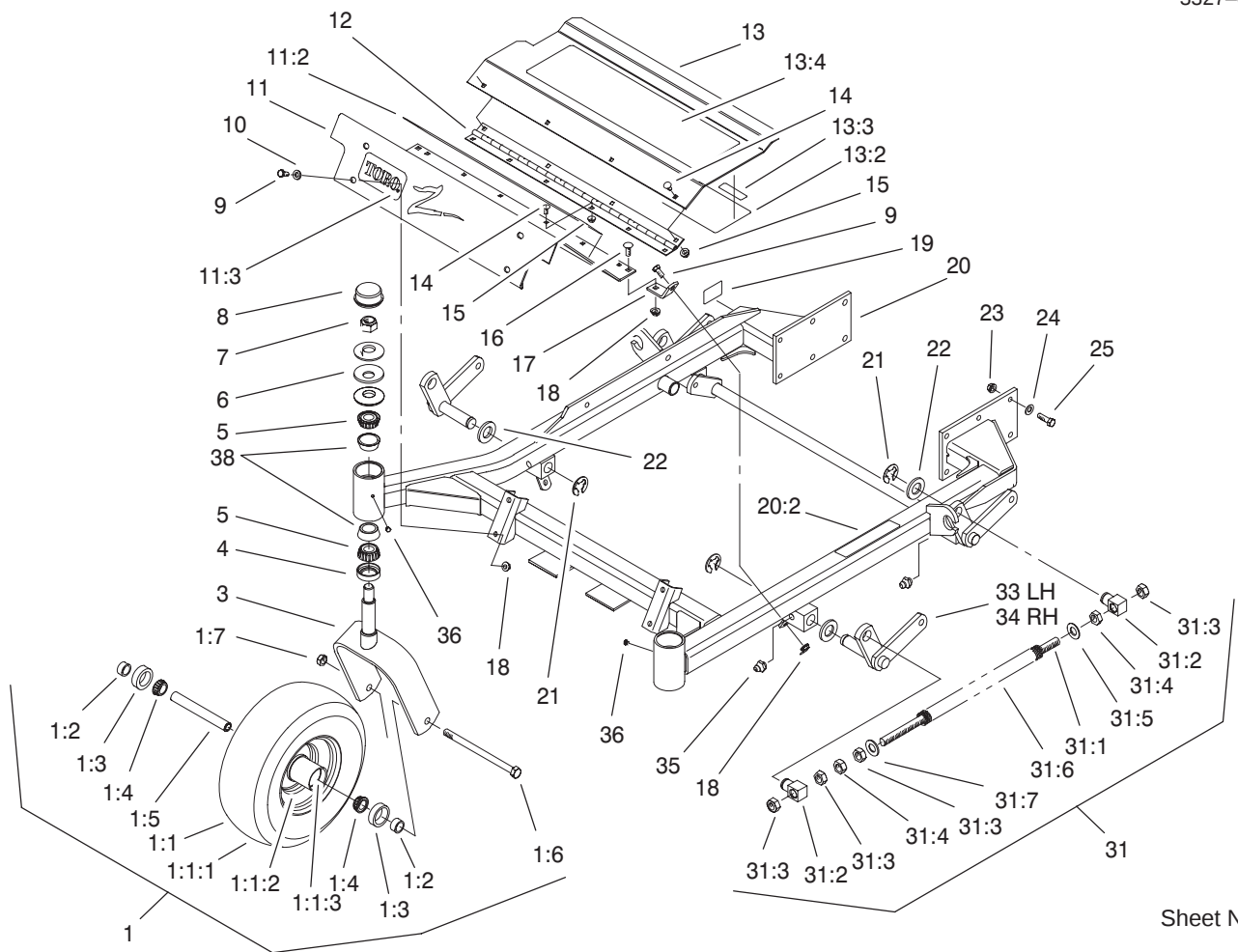


Sheet No.: 2

Front Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	1-634662	2	Caster Wheel ASM
1:1	1-633582	1	Wheel & Tire ASM
1:1:1	1-633002	1	Tire
1:1:2	1-633583	1	Wheel
1:1:3	1-633584	2	Bearing-Cup
1:2	1-633581	2	Spacer-Bearing
1:3	1-633580	2	Seal-Bearing
1:4	1-633585	2	Bearing-Cone, Taper
1:5	1-633579	1	Spacer-Caster, Front
1:6	325-36	1	Screw-HH
1:7	3296-45	1	Nut-Lock, NI
3	1-632511-01	2	Caster
4	1-543511	2	Seal-Grease
5	254-94	4	Bearing-Cone, Taper
6	1-633508	6	Washer-Belleville
7	3296-51	2	Nut-Lock, NI
8	1-543513	2	Cap-Grease
9	322-3	6	Screw-HH
10	3256-23	4	Washer-Flat
11	99-3940	1	Floorpan-Front
11:2	1-633553	1	Pad-Antiskid
11:3	1-633737	1	Decal-Z-Master
12	1-653049	1	Hinge-Floorpan
13	99-3930	1	Footrest ASM
13:2	99-3924	1	Decal-Service
13:3	98-5954	1	Decal-Missing, Cover

Ref. No.	Part No.	Qty.	Description
13:4	1-633553	1	Pad-Antiskid
14	3229-10	10	Screw-CARR
15	32128-33	10	Nut-HF
16	3230-1	2	Screw-CARR
17	99-3870-01	2	Bracket-Floorpan
18	32128-20	8	Nut-HF
19	105-2625	1	Decal-Safety STD
20	99-3931	1	Front Frame ASM
20:2	1-633818	1	Decal-Warning
21	32151-103	6	Ring-Snap
22	3256-29	6	Washer-Flat
23	3290-357	12	Nut-HHF
24	98-5975	12	Washer-Belleville
25	323-7	12	Screw-HH
31	103-1987	2	Front Spring ASM
31:1	1-653011	1	Rod-Lift, Deck
31:2	1-633441	2	Swivel-Deck Mount, Rear
31:3	3217-11	4	Nut-Hex
31:4	3218-6	2	Nut-Jam
31:5	1-805517	1	Washer
31:6	1-653009	1	Spring-Compression
31:7	3256-27	1	Washer-Flat
33	99-3871-01	1	LH Lift Arm ASM
34	99-3872-01	1	RH Lift Arm ASM
35	302-19	4	Fitting-Grease

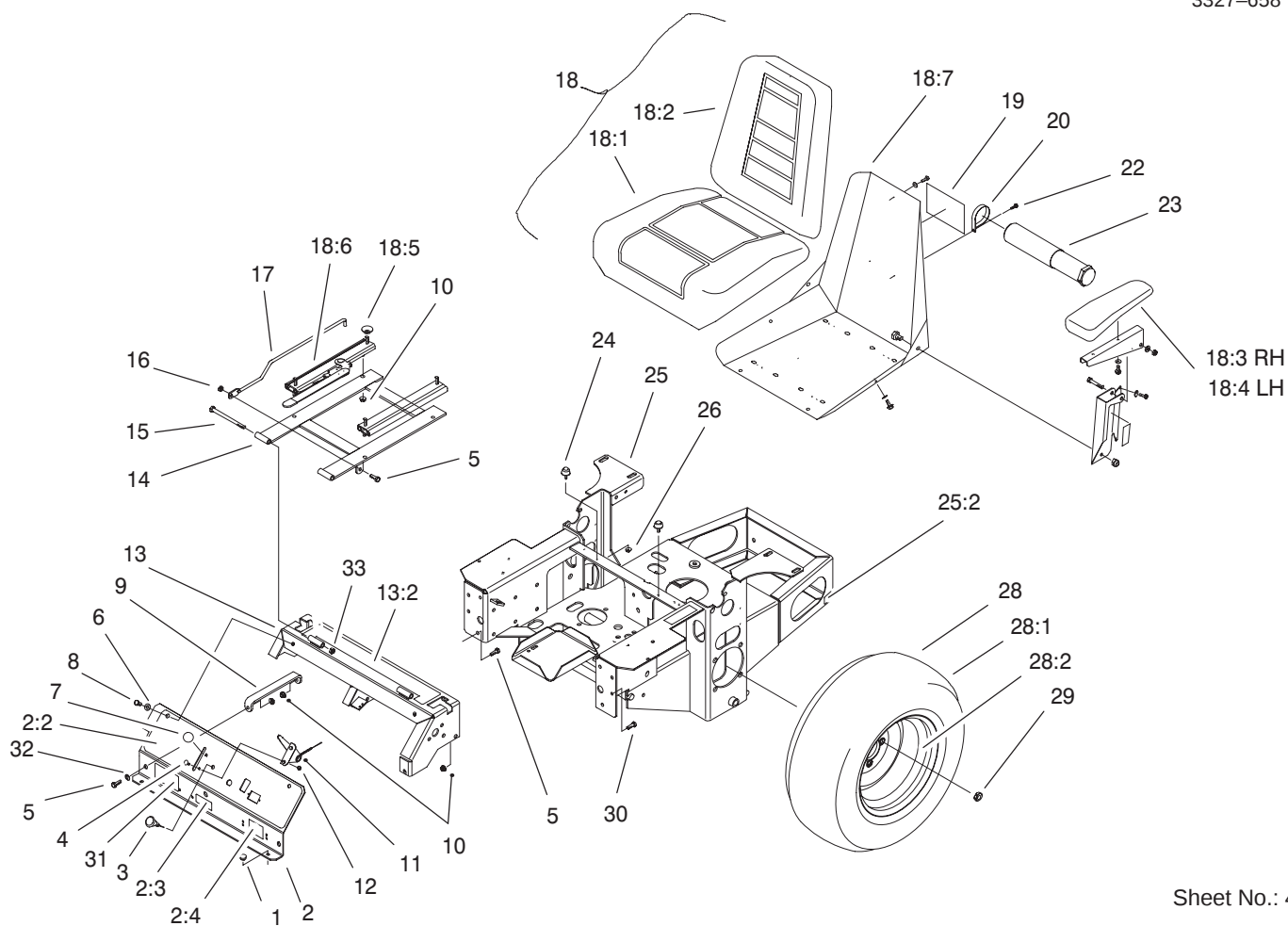


Sheet No.: 2

Front Frame Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
36	1-811010	2	Plug
38	254-72	4	Bearing-Cup, Tapered

Ref. No.	Part No.	Qty.	Description

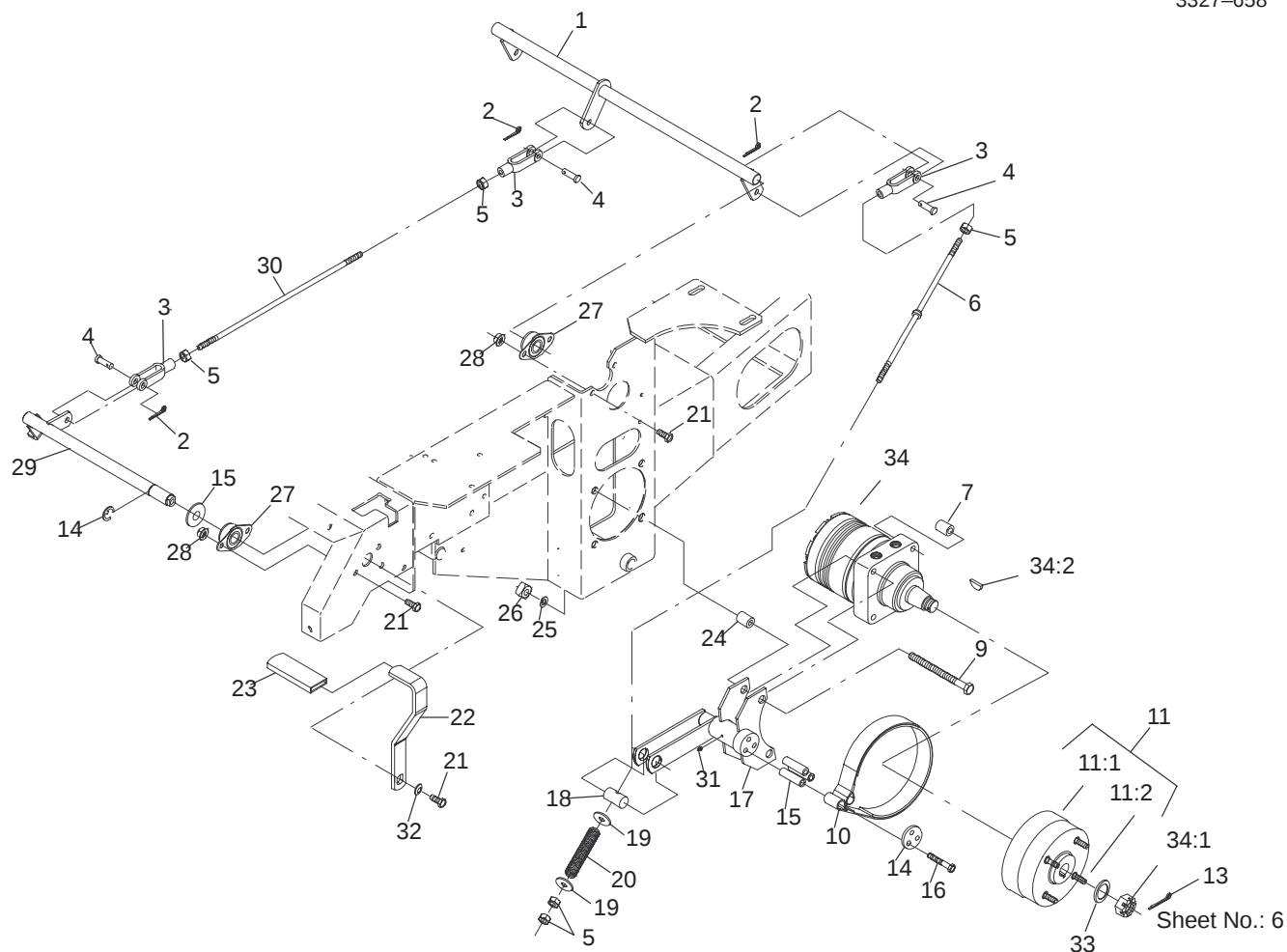


Sheet No.: 4

Main Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	1-513658	2	Bumper-Catcher, Grass
2	99-3932	1	Control Panel ASM
2:2	99-3942	1	Decal-Panel, Control
2:3	103-0262	1	Decal-Valve, Fuel
2:4	98-4387	1	Decal-Protection, Ear
3	1-603336	1	Control-Choke
4	1-807513	2	Bolt-CARR
5	322-5	3	Screw-HH
6	3256-23	2	Washer-Flat
7	1-513592	1	Knob-Ball, Red
8	322-3	3	Screw-HH
9	1-653089-03	1	Bracket
10	32128-20	12	Nut-HF
11	1-633696	1	Cable-Throttle
12	3296-2	2	Nut-Lock
13	105-6123	1	Console ASM
13:2	103-1997	1	Decal-Top Console
14	1-632187-03	1	Frame-Seat
15	323-39	2	Screw-HH
16	3296-29	1	Nut-Lock, NI
17	103-1731	1	Rod-Retainer, Seat
18	1-633705	1	Seat W/Tracks
18:1	103-0290	1	Cushion-Bottom, Seat
18:2	104-7754	1	Cushion-Back, Seat
18:3	1-633710	1	Cushion-Armrest, RH

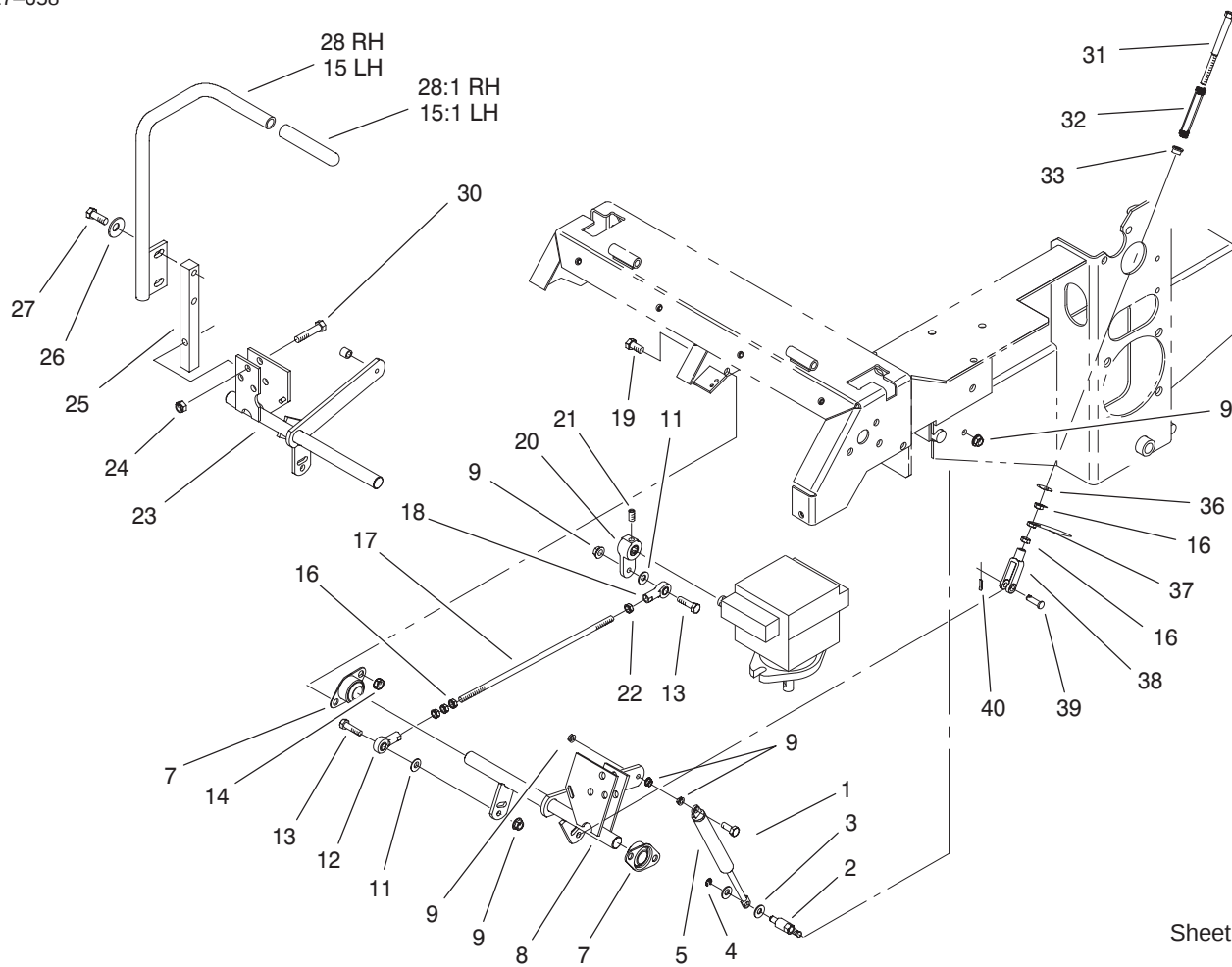
Ref. No.	Part No.	Qty.	Description
18:4	1-633711	1	Cushion-Armrest, LH
18:5	1-543401	4	Spacer-Track
18:6	1-643255	1	Grp-Track, Seat
18:7	1-633859	1	Frame-Seat
19	99-4693	1	Decal-Toro
20	2412-120	2	R-Clamp
22	32104-76	2	Screw
23	74-0720	1	Tube-Manual
24	1-523420	2	Bumper
25	105-6121	1	Main Frame ASM
25:2	65-2690	2	Decal-Surface, Hot
26	3296-42	2	Nut-Lock, NI
28	1-653159	2	ASM, Wheel & Tire
28:1	1-653160	1	Tire
28:2	1-653161	1	Wheel
29	242-50	8	Nut-Lug
30	322-2	6	Screw-HH
31	99-4604	1	Decal-Z150
32	3256-3	2	Washer-Flat
33	3296-39	2	Nut-Lock, NI



Parking Brake System Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	1-652073-03	1	Crank-Brake, Park	27	1-633102	4	Bearing-Flange, Side
2	3272-10	4	Pin-Cotter	28	3290-357	8	Nut-HHF
3	1-633131	4	Yoke-Linkage, Brake	29	1-652085	1	Shaft-Brake, Parking
4	1-808285	4	Pin-Clevis	30	1-653061	1	Linkage-Handle, Brake
5	3219-3	8	Nut-HH	31	1481	2	Fitting-Grease
6	103-0356	2	Rod-Brake	32	98-5975	1	Washer-Belleville
7	1-653068	4	Spacer-Wheel	33	1-523157	2	Washer-Spacer
9	325-13	8	Screw-HH	34	1-523328	2	Motor-Wheel
10	103-0355	2	Band-Brake	34:1	1-809036	1	Nut-HH
11	103-0590	2	Hub-Wheel W/Studs	34:2	3257-42	1	Key-Woodruff
11:1	103-0589	1	Hub-Wheel	*34:99	1-000099	1	Kit-Seal
11:2	1-633926	4	Stud-Wheel	*34:99	1-000139	1	Kit-Bearing
13	1-806800	2	Pin-Cotter	35	32151-48	1	E-Ring
14	103-0374	2	Retainer-Band, Brake	36	3256-28	1	Washer-Flat
15	103-0384	6	Spacer				
16	322-9	6	Screw-HH				
17	103-0352-03	2	Bracket-Brake				
18	1-633144	2	Pin-Trunion				
19	3256-4	4	Washer-Flat				
20	1-633454	2	Spring-Brake				
21	323-4	9	Screw-HH				
22	1-653074-03	1	Handle-Brake, Park				
23	1-633268	1	Grip-Lever, Brake				
24	1-653069	4	Spacer-Wheel				
25	3253-7	8	Washer-Lock				
26	103-0131	8	Nut-Square				

* Not illustrated

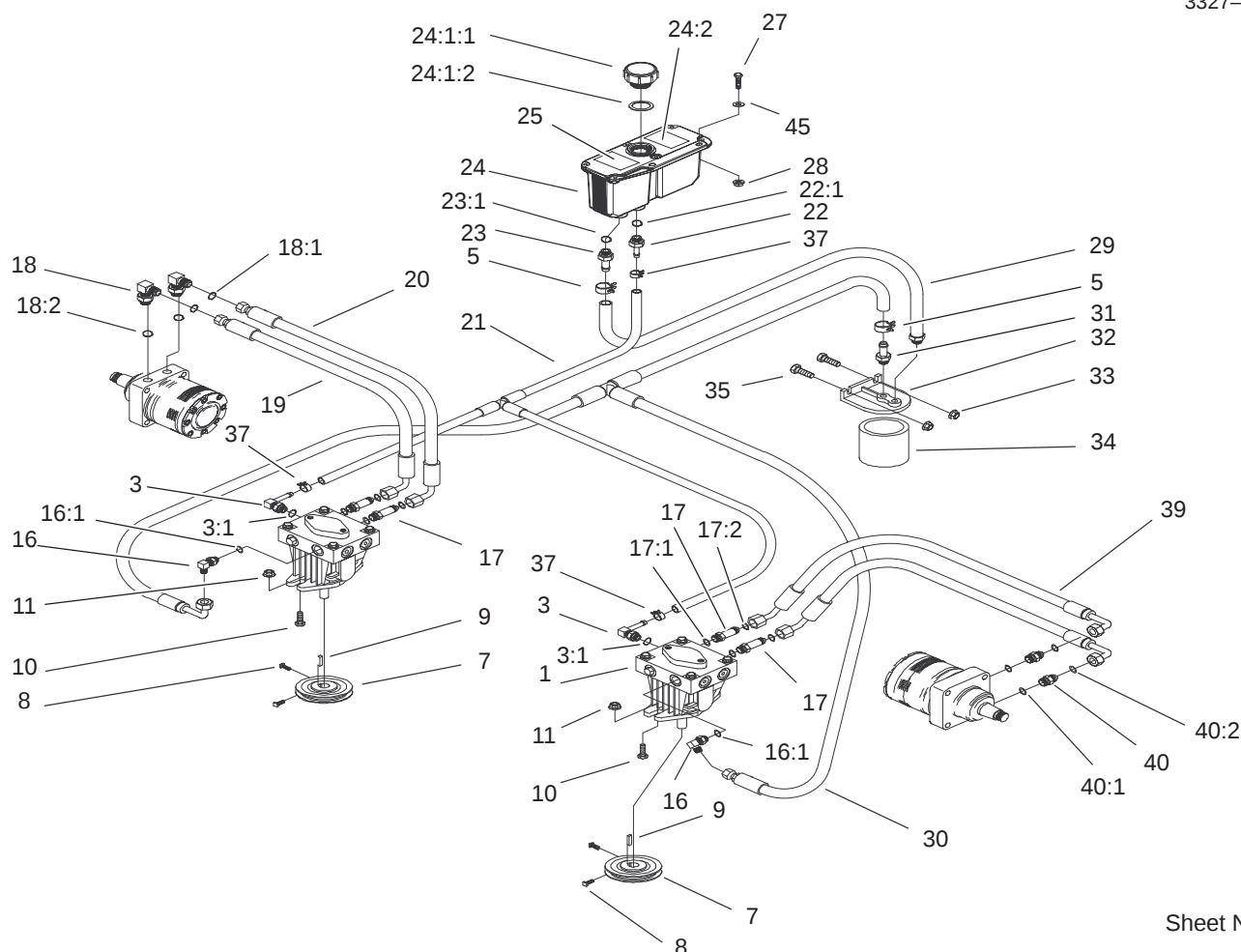


Sheet No.: 7

Motion Control System Assembly

Ref. No.	Part No.	Qty.	Description
1	1-403180	2	Screw-HH
2	1-653316	2	Pin-Damper
3	3256-23	4	Washer-Flat
4	32120-35	2	E-Ring
5	1-523027	2	Damper-Control
7	1-633102	4	Bearing-Flange, Side
8	103-2199	1	LH Motion Control ASM
9	32128-20	12	Nut-HF
11	3256-3	4	Washer-Flat
12	1-543017	2	Balljoint-RH
13	322-6	4	Screw-HH
14	3290-357	8	Nut-HHF
15	103-0631	1	LH Lever ASM
15:1	1-633257	1	Grip-Control, Motion
16	3219-2	10	Nut-Hex
17	1-653046	2	Linkage-Pump/Lever
18	1-633152	2	Balljoint-Thread, LH
19	323-4	8	Screw-HH
20	1-653092	2	Arm-Control, Pump
21	1-803022	2	Screw
22	1-804524	2	Nut
23	103-2200	1	RH Motion Control ASM
24	3296-39	6	Nut-Lock, NI
25	103-0407	2	Arm-Shaft, Control

Ref. No.	Part No.	Qty.	Description
26	98-5975	4	Washer-Belleville
27	323-6	4	Screw-HH
28	103-0632	1	RH Lever ASM
28:1	1-633257	1	Grip-Control, Motion
30	323-9	6	Screw-HH
31	1-603737	2	Bolt-Return, Neutral
32	1-603807	2	Spring-Return, Neutral
33	1-603735	2	Bushing-Flanged
36	3256-2	2	Washer-Flat
37	3220-2	2	Nut
38	1-303105	2	Yoke-Adjustable
39	1-808280	2	Pin-Clevis
40	3272-5	2	Pin-Cotter



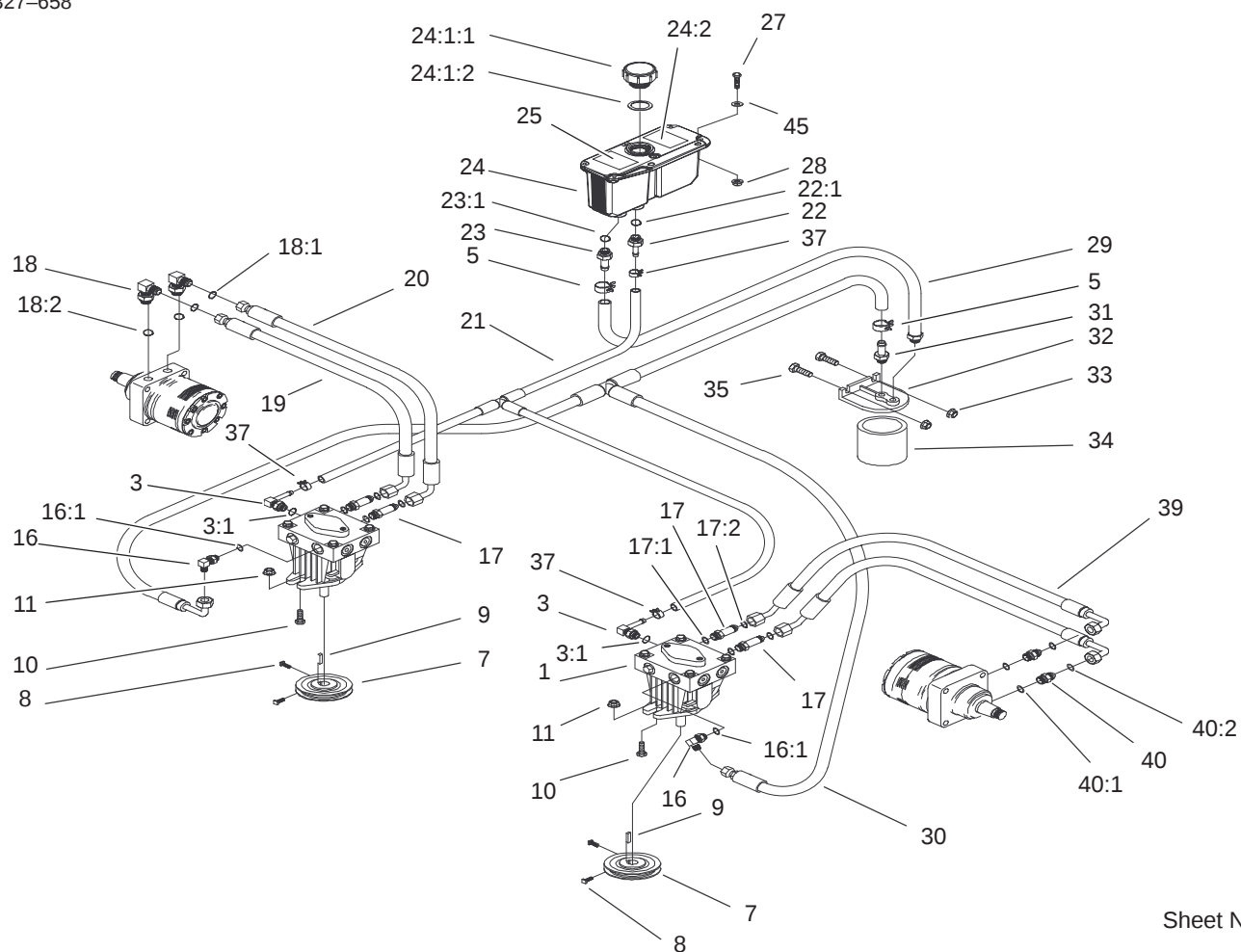
Sheet No.: 8

Hydraulic System Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	103-1942	2	Pump-Hydraulic	22:1	237-42	1	O-Ring
*1:1	105-6184	1	Kit – Overhaul, Seal	23	103-1912	1	Adapter, Straight
*1:2	105-6185	1	Plate – Valve	23:1	237-42	1	O-Ring
*1:8	103-2664	1	Kit, Input Shaft 10a	24	103-1947	1	HYD Reservoir ASM
*1:9	103-2665	1	Kit, Thrust Bearing 10a	☆24:1		1	HYD Reservoir ASM
*1:10	103-2666	1	Kit, Cylinder Block 10a	24:1:1	103-1948	1	Cap, Hydraulic Reservoir
3	103-1799	2	Elbow-90°	24:1:2	103-1949	1	Gasket-Cap
3:1	237-42	1	O-Ring	24:2	1-523552	1	Decal-Tank, Hydraulic
5	103-1988	2	Clamp-Hose	25	103-2644	1	Decal-System, Exhaust
7	1-653156	2	Sheave	27	321-14	2	Screw-HH
8	1-803050	4	Screw-Set	28	32128-33	2	Nut-HF
9	1-807272	2	Key-Machine	29	103-1805	1	HYD Hose ASM
10	323-7	4	Screw-HH	30	103-1803	1	HYD Hose ASM
11	3290-357	4	Nut-HHF	31	103-1804	1	Adapter-Straight
16	103-1802	2	Elbow-90°	32	1-603720	1	Head-Filter
16:1	237-42	1	O-Ring	33	32128-20	2	Nut-HF
17	103-1940	4	Adapter, Straight	34	1-633750	1	Filter-HYD
17:1	237-79	1	O-Ring	34	1-633752	1	Filter-HYD, Winter
17:2	1-603992	1	O-Ring	35	322-5	2	Screw-HH
18	1-633605	2	Fitting-Connector	37	103-1716	3	Clamp-Hose
18:1	1-603992	1	O-Ring	39	103-1680	2	Hose-LH
18:2	237-80	1	O-Ring	40	1-603991	2	Fitting-Straight
19	1-653186	1	Hose, Front	40:1	237-80	1	O-Ring
20	1-653187	1	Hose, RH Rear	40:2	1-603992	1	O-Ring
21	103-1800	1	HYD Hose ASM				
22	103-1801	1	Adapter-Straight				

* Not illustrated

☆ Not serviced separately

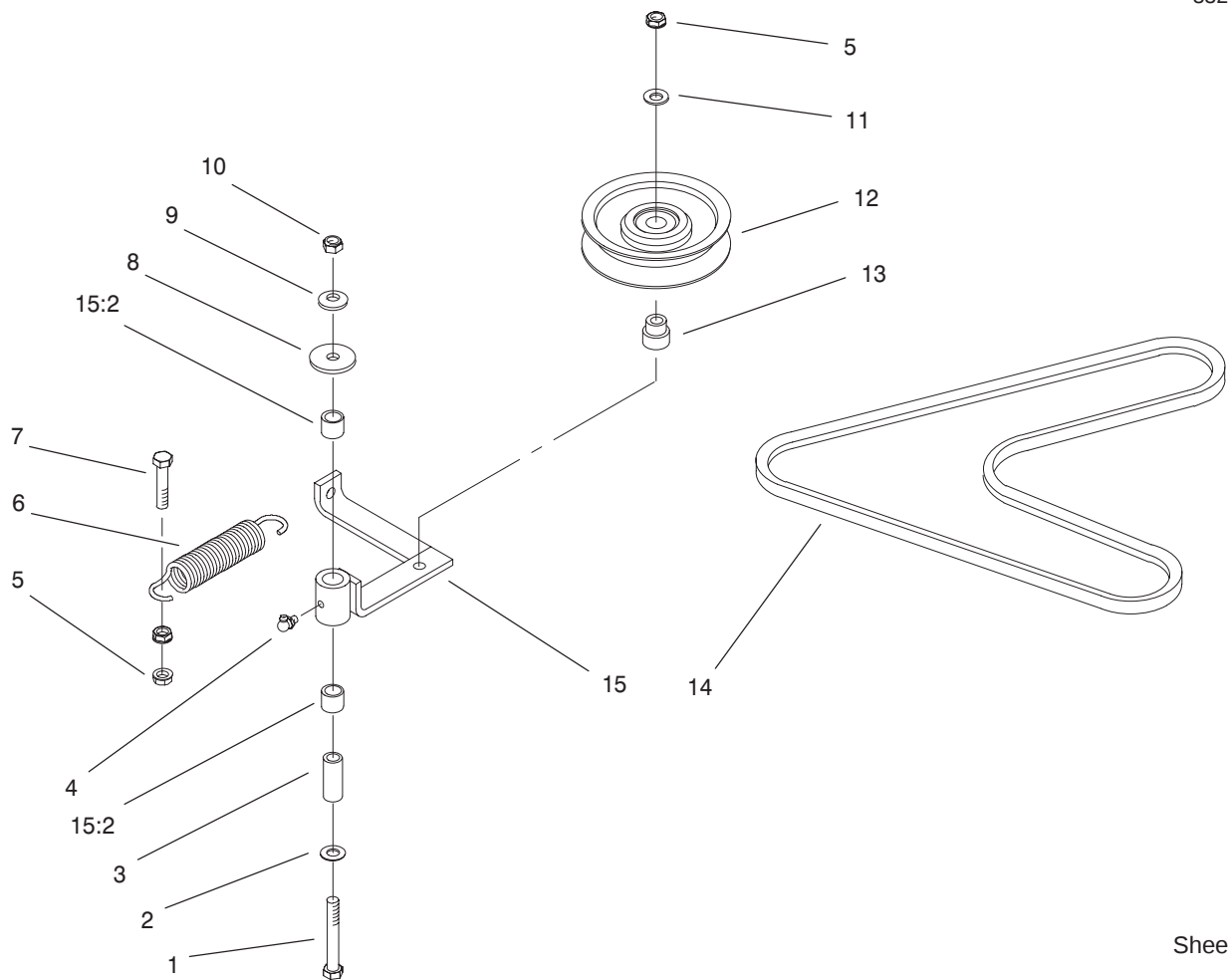


Sheet No.: 8

Hydraulic System Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
45	3256-22	2	Washer-Flat

Ref. No.	Part No.	Qty.	Description

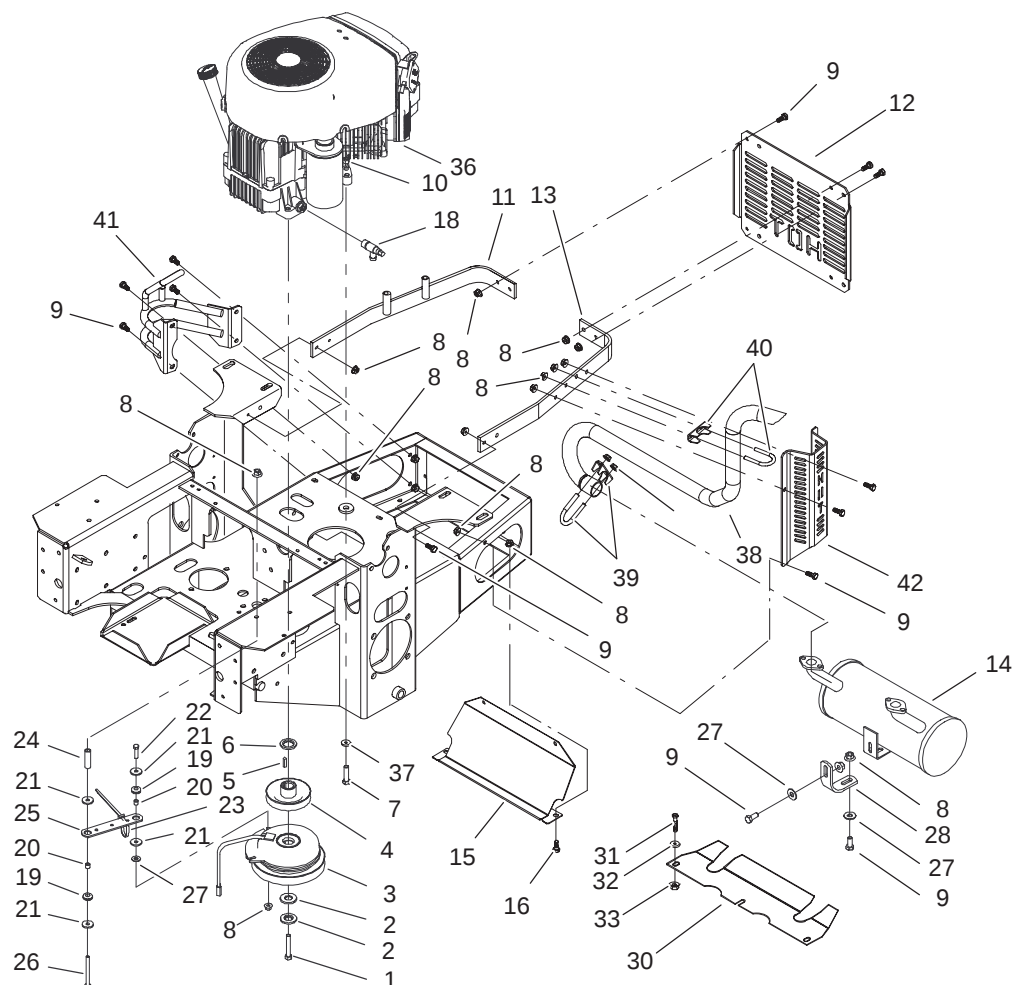


Sheet No.: 9

Pump, Idler and Belt Assembly

Ref. No.	Part No.	Qty.	Description
1	323-13	1	Screw-HH
2	3256-4	1	Washer-Flat
3	1-603044	1	Bushing
4	302-40	1	Fitting-Grease
5	3290-357	3	Nut-HHF
6	103-1767	1	Spring-Extension
7	323-9	2	Screw-HH
8	1-373034	1	Washer-Swivel
9	98-5975	1	Washer-Belleville
10	3296-39	1	Nut-Lock, NI
11	3256-24	1	Washer-Flat
12	1-603843	1	Pulley-Idler
13	1-603496	1	Bushing-Idler
14	1-653283	1	Belt-Pump
15	1-654143	1	Idler Arm
15:2	1-513034	2	Sleeve-Bearing

Ref. No.	Part No.	Qty.	Description



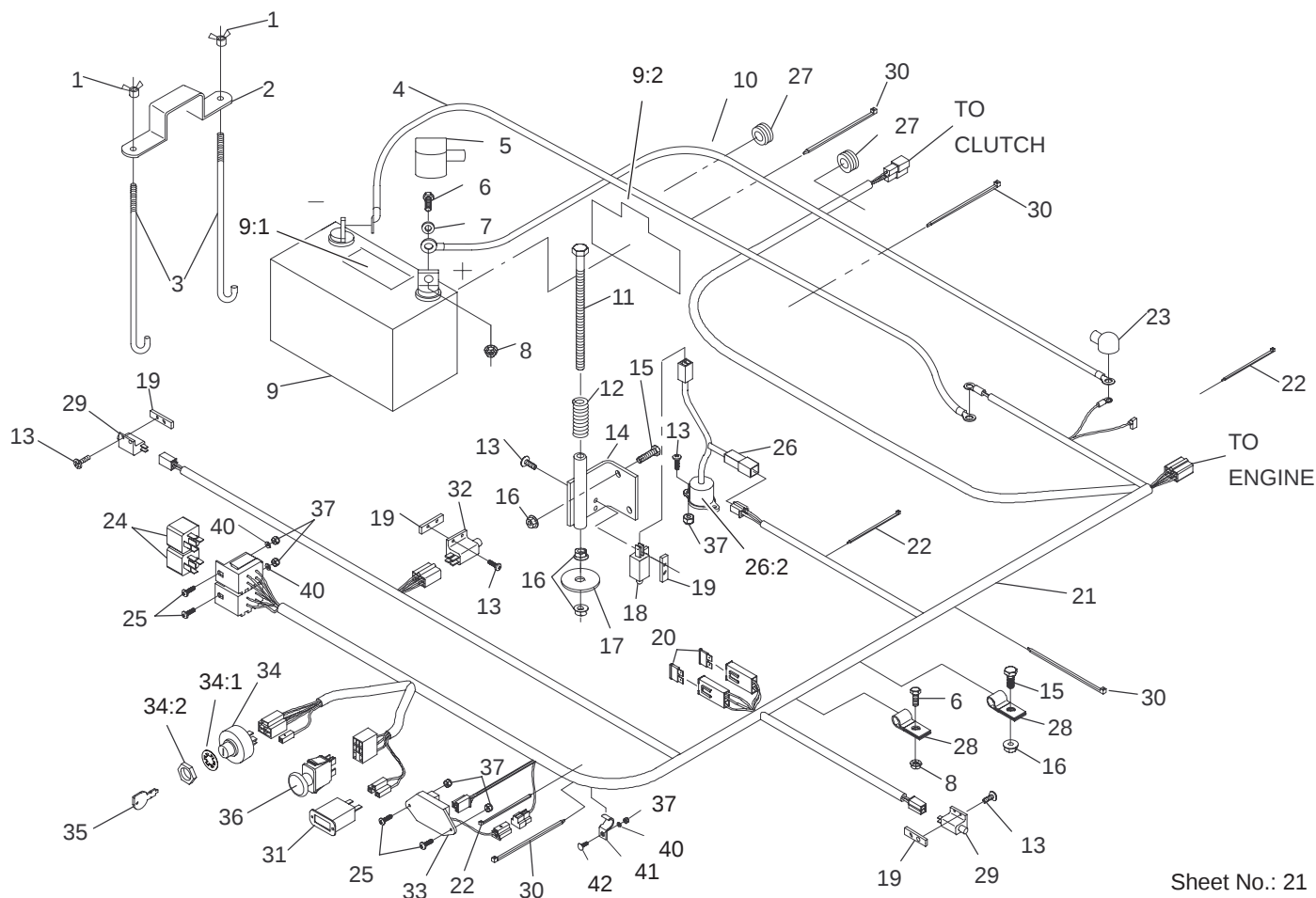
Sheet No.: 10

Engine and Clutch Assembly

Ref. No.	Part No.	Qty.	Description
1	3212-10	1	Screw-HH
2	1-603610	2	Washer-Spring
3	1-653048	1	Clutch-Stop
4	1-653035	1	Sheave W/Hub
5	1-807259	1	Key
6	103-2308	1	Spacer-Crankshaft
7	322-9	4	Screw-HH
8	32128-20	27	Nut-HF
9	322-3	21	Screw-HH
10	32128-20	4	Nut-HF
11	1-652146-03	1	Strap-Guard, Engine
12	1-653095-03	1	Shield-Engine
13	103-2751-03	1	Strap,Eng Guard LH Exhaust
14	103-1323	1	Muffler
15	103-2560-03	1	Shield-Heat
16	322-2	4	Screw-HH
18	103-1963	1	Valve,Oil Drain 3/8 Npt
19	1-633630	2	Grommet-Brake
20	1-633545	2	Spacer-Grommet
21	1-613235	4	Washer
22	322-6	1	Screw-HH
23	1-303335	2	Tie-Plastic
24	1-523406	1	Bushing-Mount, Seat
25	1-633543-03	1	Strap-Clutch, Brake
26	322-22	1	Screw-HH

Ref. No.	Part No.	Qty.	Description
27	3256-3	3	Washer-Flat
28	1-653196	1	Bracket-Support, Muffler
30	1-653539-03	1	Shield,Heat
31	3230-1	3	Screw-CARR
32	3256-23	3	Washer-Flat
33	3296-29	3	Nut-Lock, NI
★36		1	Engine, Kohler Cv20s
37	1-303334	2	Washer-Spring
38	103-2599	1	Wld,Tailpipe
39	103-2630	1	Clamp,1.25"
40	103-2631	1	Clamp,1.125"
41	103-2564-03	1	RH Exhaust Guard ASM
42	103-2566-03	1	LH Exhaust Guard ASM
44	1-643312	1	Clip-Loom

★ Not serviced separately

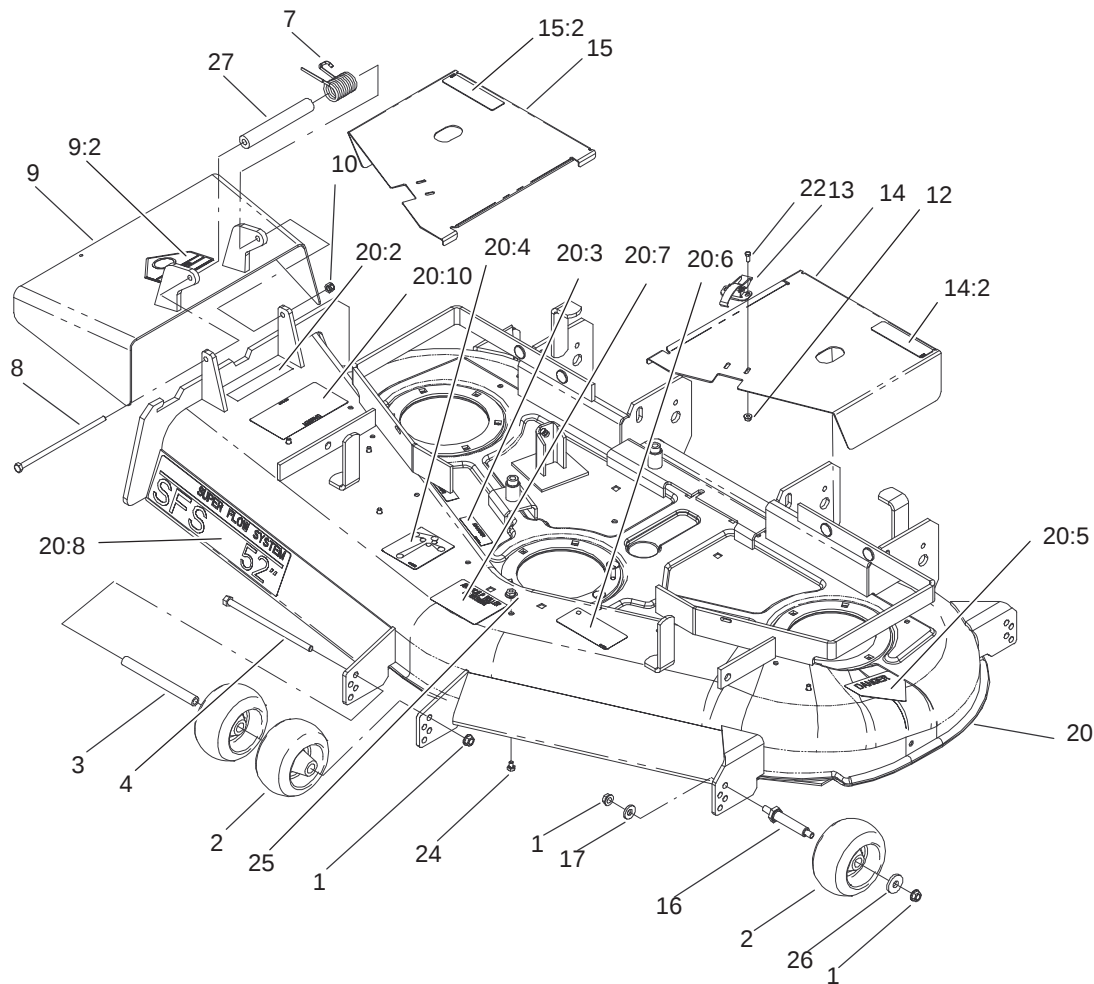


Sheet No.: 21

Electrical System Assembly

Ref. No.	Part No.	Qty.	Description
1	1-543792	2	Wingnut
2	1-633652-03	1	Strap-Holddown, Battery
3	1-633651	2	Bolt-Holddown
4	103-0705	1	Cable-Ground, Negative
5	1-543391	1	Insulator-Battery
6	321-4	3	Screw-HH
7	3256-2	2	Washer-Flat
8	32128-33	3	Nut-HF
9	105-1692	1	Battery - 230 Cca
9:1	104-4163	1	Decal-Battery
9:2	104-4164	1	Decal-Battery
10	1-523281	1	Wire-Starter
11	1-800282	1	Screw-HH
12	1-523415	1	Spring-Switch, Seat
13	3290-500	10	Screw-PPH
14	1-652072-03	1	Bracket-Switch, Seat
15	322-3	3	Screw-HH
16	32128-20	5	Nut-HF
17	1-653036	1	Washer
18	1-513152	1	Switch-Closed, Normally
19	1-633181	4	Plate-Tapped
20	1-816001	2	Fuse-Type, Blade
21	103-0595	1	Harness-Wire

Ref. No.	Part No.	Qty.	Description
22	1-303287	2	Tie-Plastic
23	1-543393	1	Insulator-Solenoid
24	1-643275	2	Relay
25	1-807513	4	Bolt-CARR
26	1-644427	1	Tilt Switch ASM
26:2	1-643401	1	Decal-Switch, Mercury
27	1-543286	2	Grommet
28	1-633396	2	Clip-Loom
29	1-513051	2	Switch-Open, Normally
30	1-303335	4	Tie-Plastic
31	1-513374	1	Meter-Hour
32	1-633111	1	Switch
33	100-6186	1	Module-Delay, Seat
34	88-9830	1	Key Switch ASM
34:1	3254-5	1	Washer-Lock, Internal
34:2	218-461	1	Nut-HH
35	63-8360	2	Key-Ignition
36	1-633673	1	Switch-Delta
37	3296-2	7	Nut-Lock
40	3256-14	1	Washer-Flat
41	103-1193	1	Clip-Half, Loom
42	1-807533	1	Bolt-CARR



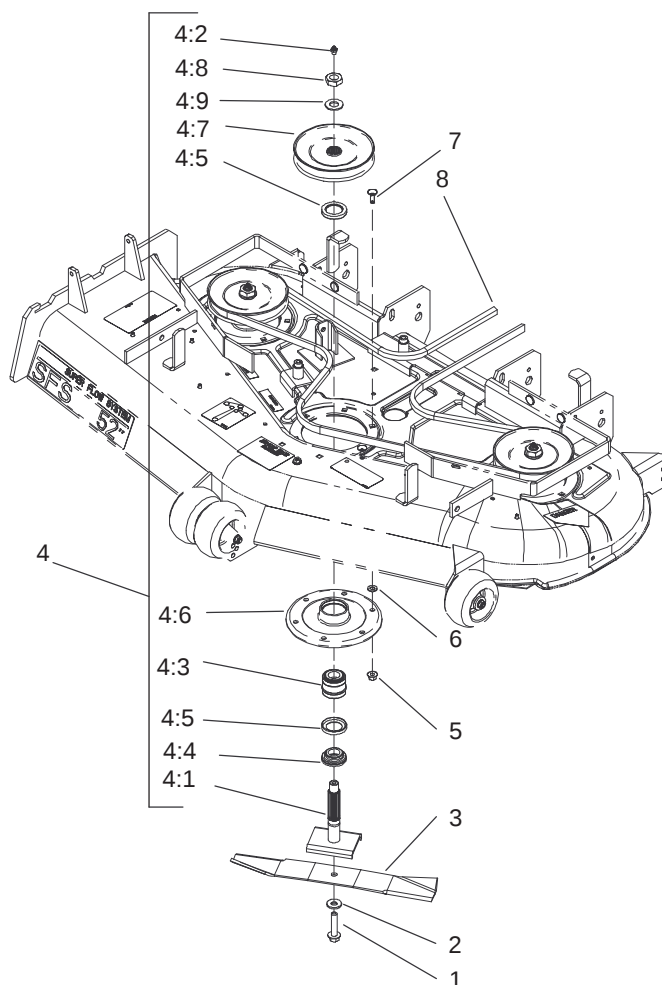
Sheet No.: 14

Deck Assembly

Ref. No.	Part No.	Qty.	Description
1	3290-357	9	Nut-HHF
2	68-2730	6	Wheel-Gage
3	98-5967	1	Spacer-Wheel
4	323-28	1	Screw-HH
7	104-8554	1	Spring-Torsion
8	322-50	1	Screw-Cap
9	105-4623	1	Deflector ASM
9:2	54-9220	1	Decal-Danger
10	3296-29	1	Nut-Lock, NI
12	32128-17	4	Nut-Lock, Flange
13	249-21	2	Clamp-Slotted
14	99-3896	1	LH Cover ASM
14:2	67-5360	1	Decal-Danger
15	99-3895	1	RH Cover ASM
15:2	67-5360	1	Decal-Danger
16	99-2842	4	Spacer-Wheel
17	98-5975	4	Washer-Belleville
20	105-1695	1	Deck Service ASM (52, 100 Series)
☆20		1	Deck ASM W/ Decals
20:2	104-8569	1	Decal-Warning, Deflector
20:3	98-5954	3	Decal-Missing, Cover
20:4	99-3943	1	Decal-Routing, Belt
20:5	43-8480	1	Decal-Danger

Ref. No.	Part No.	Qty.	Description
20:6	93-7818	1	Decal-Torque, Blade Bolt
20:7	98-3798	1	Decal-Wheel, Gage
20:8	98-5953	1	Decal-Sfs
20:10	66-1340	1	Decal-Danger
22	3290-321	4	Screw-HWH
24	321-1	6	Screw-HH
25	32128-33	6	Nut-HF
26	1-373034	4	Washer-Swivel
27	105-4622	1	Spacer - Mounting, Deflector

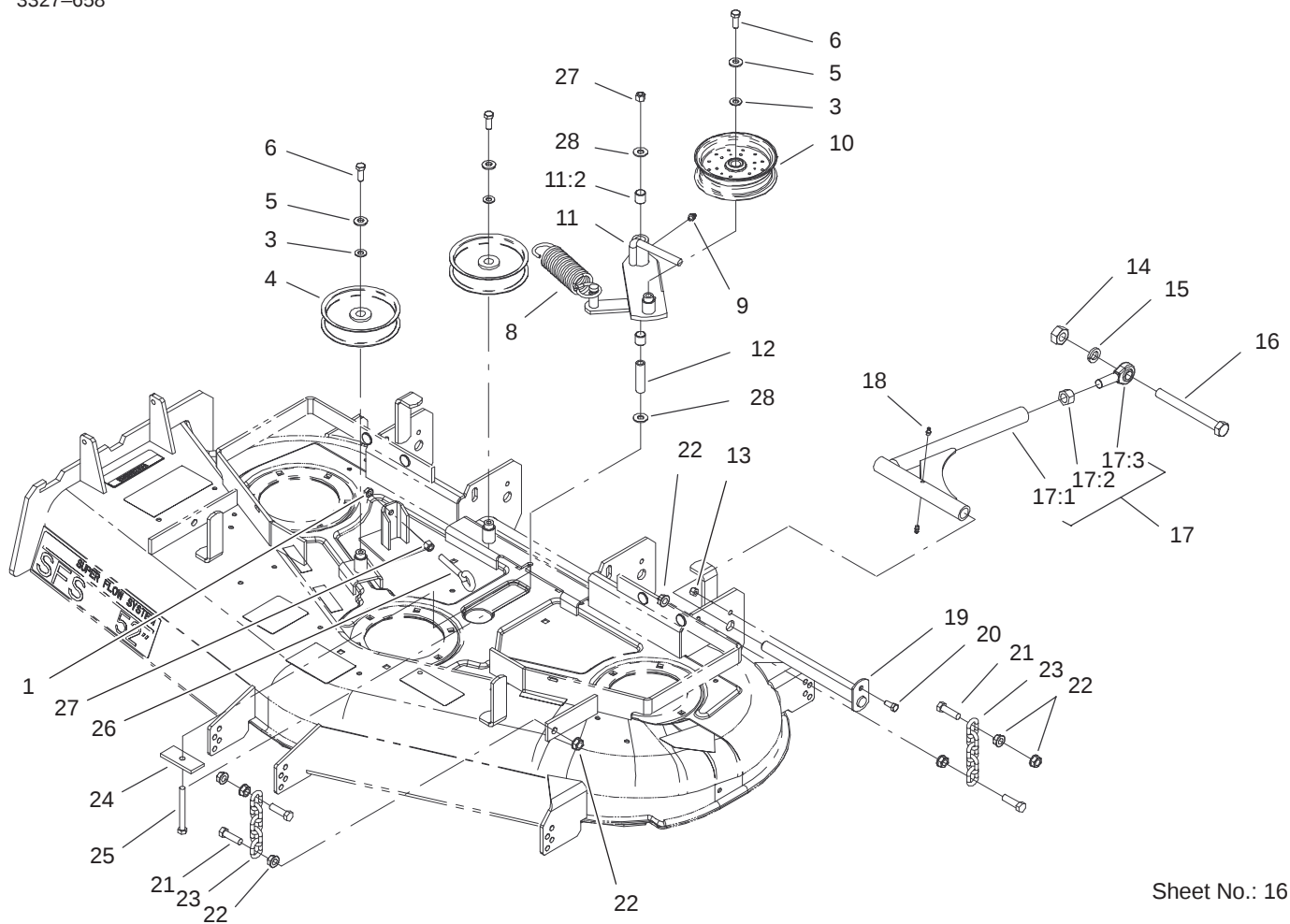
☆ Not serviced separately



Sheet No.: 15

Deck Spindle Assembly

Ref. No.	Part No.	Qty.	Description
1	92-5816	3	Bolt-Blade
2	1-513435	3	Washer-Spring
3	56-2390	3	Blade
4	100-3976	3	Spindle Housing ASM
4:1	100-3972	1	Spindle Shaft ASM
4:2	302-2	1	Fitting-Grease
4:3	46-8530	1	Bearing ASM
4:4	27-0950	1	Spacer-Bearing, Spindle
4:5	253-139	2	Seal-Oil
4:6	61-4160	1	Housing-Spindle
4:7	100-3970	1	Pulley And Hub ASM
4:8	32146-20	1	Nut-Jam
4:9	7-4150	1	Washer-Pinion
5	32128-21	18	Nut-HF
6	3256-24	6	Washer-Flat
7	3231-22	18	Screw-CARR
8	99-3904	1	Belt-Deck



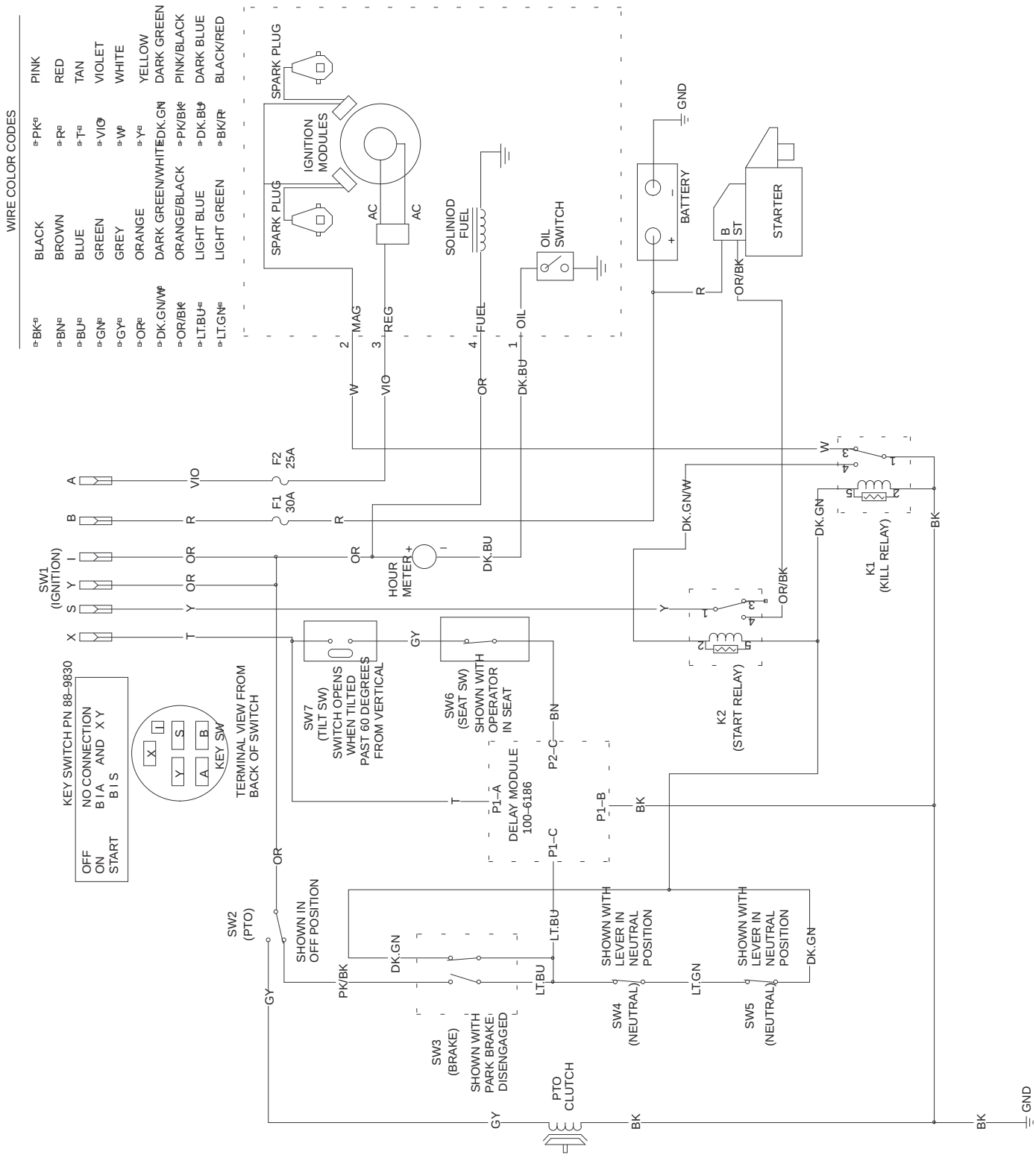
Sheet No.: 16

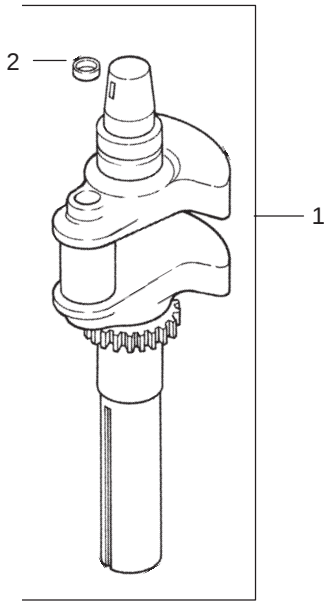
Idler, Pulley/Lift Strut and Chain Assembly

Ref. No.	Part No.	Qty.	Description
1	3217-7	1	Nut-Hex
3	3256-24	3	Washer-Flat
4	1-613098	2	Pulley-Idler
5	98-5975	3	Washer-Belleville
6	323-6	3	Screw-HH
8	1-633151	1	Spring-Extension
9	302-40	1	Fitting-Grease
10	1-413099	1	Pulley-Idler
11	99-3879	1	Idler Arm ASM
11:2	1-513034	2	Sleeve-Bearing
12	1-603384	1	Bushing-Pivot, Idler
13	3296-29	2	Nut-Lock, NI
14	3217-11	2	Nut-Hex
15	3253-8	2	Washer-Lock
16	1-800344	2	Screw
17	103-1081	2	Strut ASM
17:1	103-1072-01	1	Strut-Deck
17:2	3219-6	1	Nut-Hex
17:3	1-633029	1	Balljoint-Spherical
18	302-19	4	Fitting-Grease
19	1-632199-01	2	Pin-Strut, Deck
20	322-3	2	Screw-HH
21	1-800811	8	Screw-Cap, HH
22	32128-37	16	Nut-HF
23	1-633447	4	Chain-Lift, Deck
24	99-3946-01	1	Plate-Retainer, Bolt

Ref. No.	Part No.	Qty.	Description
25	1-800805	1	Screw-HH
26	94-2547	1	Bolt-Eye
27	3296-39	2	Nut-Lock, NI
28	1-809107	2	Washer-Hardened

Electrical Schematic

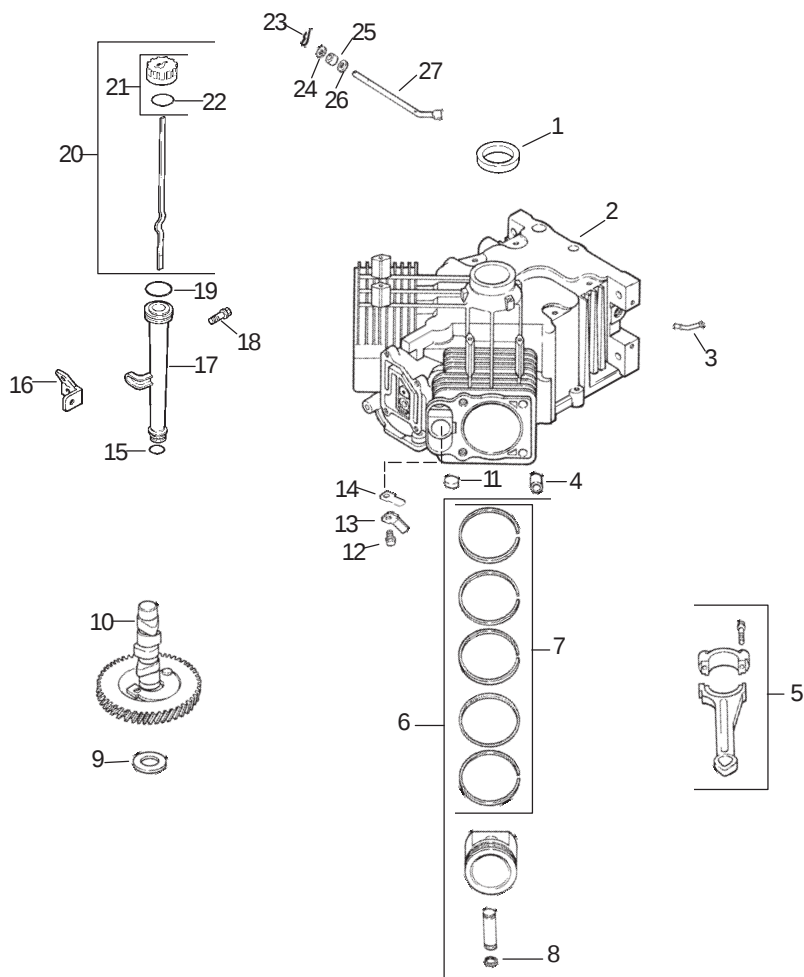




Group 1 – Crankshaft Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
1	24 014 32-S	1	Crankshaft (Includes 2)
2	52 139 09-S	1	Plug, cup

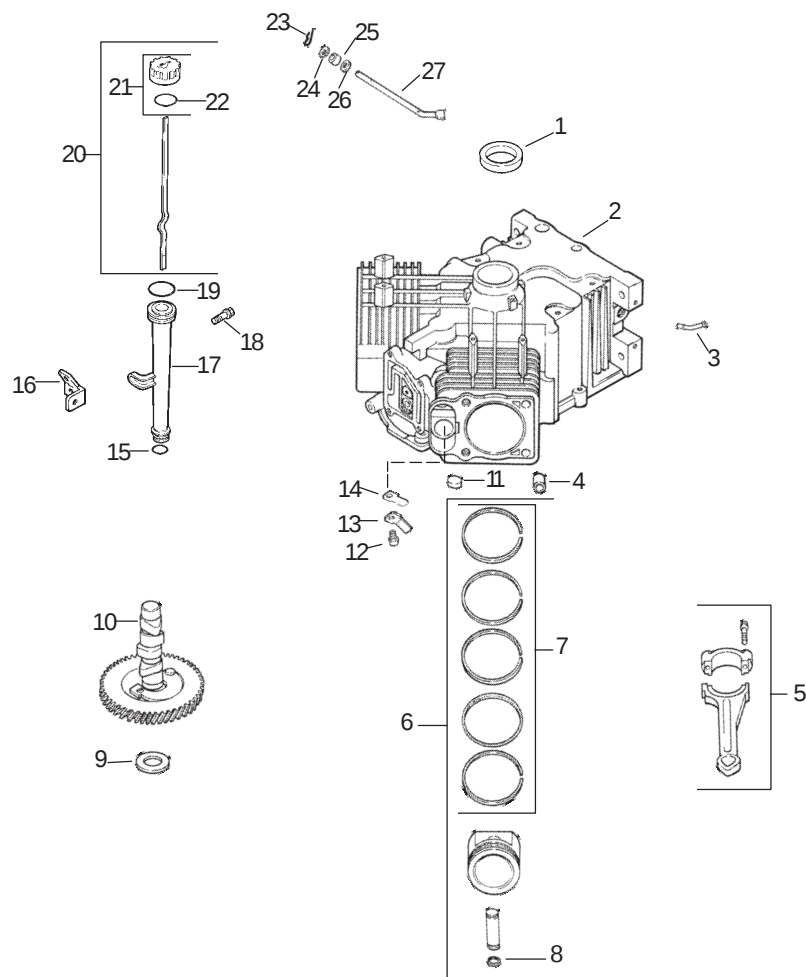
Ref. No.	Part No.	Qty.	Description



Group 2 – Crankcase Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 032 01-S	1	Seal, oil front	10	12 422 12-S	1	Shim, camshaft (A.R.)
2	N/A	1	Crankcase (Service with Miniblock 24 782 24)	11	24 012 10-S	1	Camshaft (Includes 11,12)
3	24 294 13-S	1	Fitting	12	52 139 09-S	1	Plug, cup
4	24 380 13-S	6	Pin, dowel locating	13	M-545010-S	2	Screw, hex. flange M5x0.8x10
5	24 067 13-S	2	Connecting Rod (Std.)	14	24 018 04-S	2	Retainer, reed
6	24 067 14-S	2	Connecting Rod (.25)	15	24 402 05-S	2	Reed, breather
7	24 874 17-S	2	Piston w/Ring Set (Std.) (Includes 7,8)	16	12 153 01-S	1	O-Ring, lower oil fill tube
8	24 874 18-S	2	Piston w/Ring Set (.25)	17	24 126 19-S	1	Bracket, oil fill tube
9	24 874 19-S	2	Piston w/Ring Set (.50)	18	12 123 04-S	1	Tube, oil fill
	24 874 14-S	2	Piston w/Ring Set (.08)	19	M-545016-S	1	Screw, hex. flange M5x0.8x16
	24 108 11-S	2	Ring Set (Std.)	20	12 153 02-S	1	O-Ring, upper oil fill tube
	24 108 12-S	2	Ring Set (.25)	21	24 038 04-S	1	Dipstick assembly (Includes 21,22)
	24 108 13-S	2	Ring Set (.50)	22	25 755 13-S	1	Kit, oil fill cap (Includes 22)
	24 018 01-S	4	Retainer, piston pin	23	12 153 03-S	1	O-Ring, dipstick
	12 422 09-S	1	Shim, camshaft (A.R.)	24	24 018 09-S	1	Ring, retainer
	12 422 13-S	1	Shim, camshaft (A.R.)		M-931010-S	1	Washer, plain 9 mm
	12 422 07-S	1	Shim, camshaft (A.R.)				
	12 422 08-S	1	Shim, camshaft (A.R.)				
	12 422 10-S	1	Shim, camshaft				
	12 422 11-S	1	Shim, camshaft (A.R.)				

Obtain Parts From Kohler



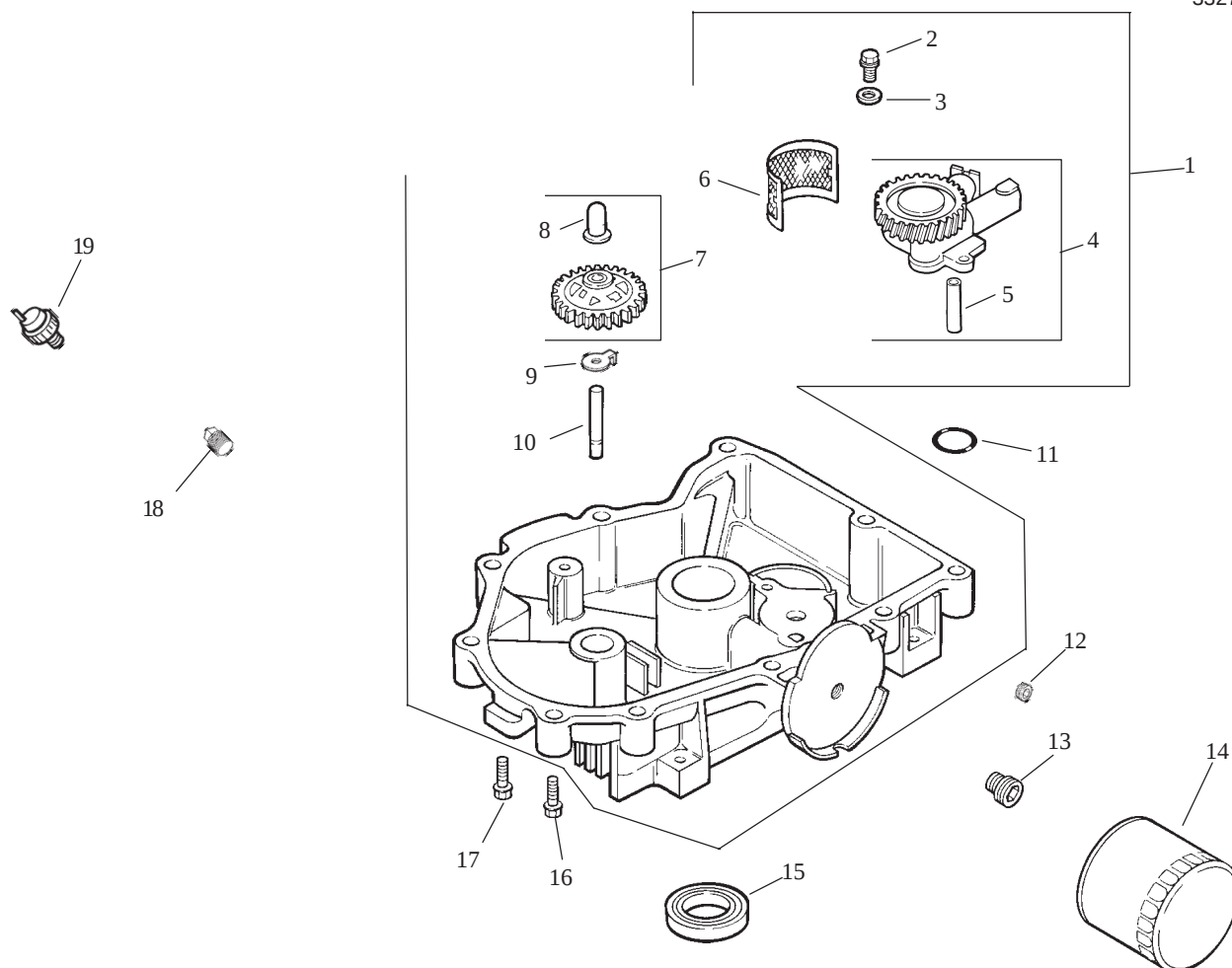
Group 2 – Crankcase Assembly (Continued)

Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
25	28 032 09-S	1	Seal, governor cross shaft
26	24 468 15-S	1	Washer, plain 1/4"
27	24 144 33-S	1	Shaft, governor cross

Ref. No.	Part No.	Qty.	Description

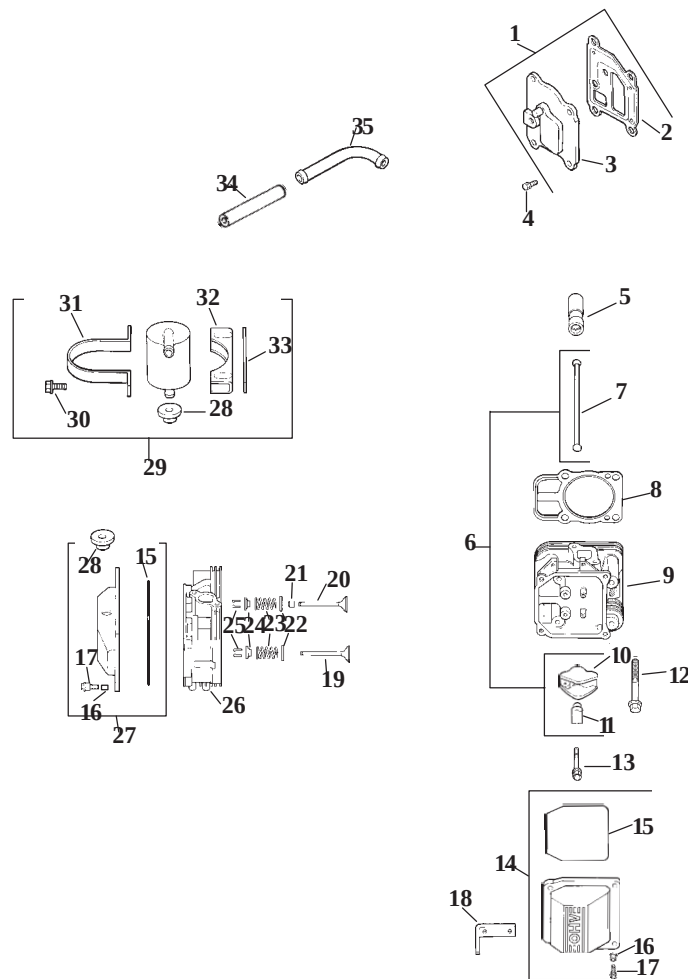
Obtain Parts From Kohler



Group 3 – Oil Pan/Lubrication Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 199 07-S	1	Pan, oil assembly (Includes 2-10)	18	25 139 57-S	1	M8x1.25x45 Plug, pipe
2	M-645025-S	2	Screw, hex. flange M6x1.0x25	19	24 099 03-S	1	3/8" .T.F. sq. hd. Switch, pressure
3	M-631005-S	2	Washer, plain 6 mm				
4	24 393 08-S	1	Oil pump assembly (Includes 5)				
5	24 123 05-S	1	Tube, oil pickup				
6	24 162 26-S	1	Screen, oil				
7	24 043 12-S	1	Kit, governor gear w/pin (Includes 8)				
8	12 380 01-S	1	Pin, governor regulating				
9	52 448 02-S	1	Tab, locking				
10	12 144 02-S	1	Shaft, governor gear				
11	24 153 08-S	1	O-Ring				
12	25 139 62-S	1	Plug, hex. ctsk. 3/8"				
13	24 136 01-S	1	Nipple, oil filter				
14	52 050 02-S	1	Filter, oil				
15	52 032 08-S	1	Seal, oil (PTO end)				
16	24 086 17-S	1	Screw, hex. flange M8x1.25x45				
17	24 086 16-S	9	Screw, hex. flange				

Obtain Parts From Kohler

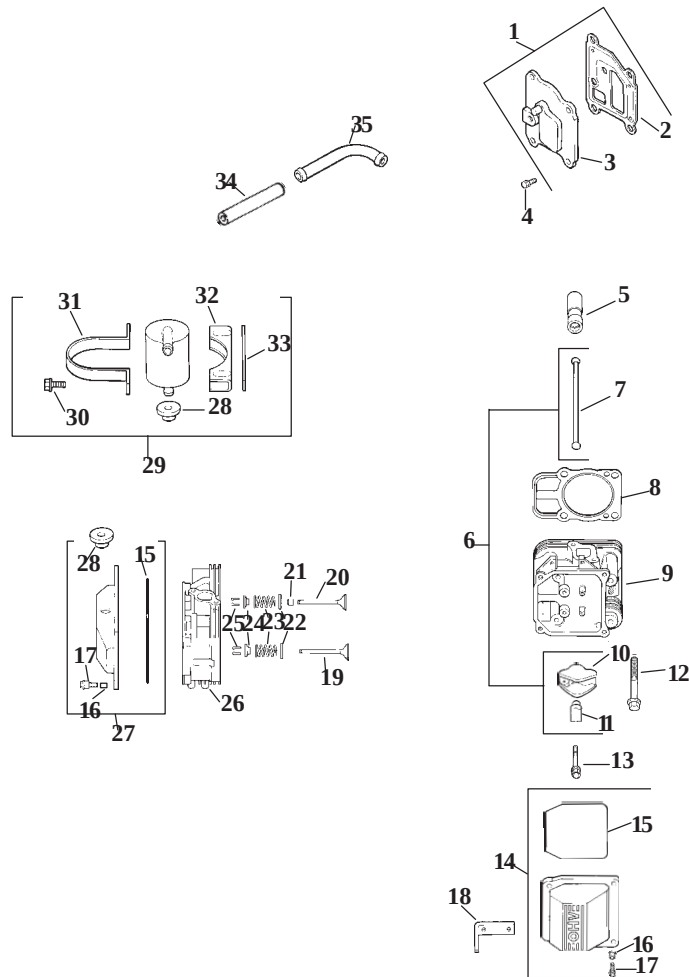


Group 4 – Head/Valve/Breather Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
1	24 033 03-S	1	Kit, breather cover w/gasket (Includes 2,3)
2	24 041 23-S	1	Gasket, breather
3	24 096 59-S	1	Cover, breather
4	M-645020-S	4	Screw, hex. flange M6x1.0x20
5	25 351 01-S	4	Lifter, valve
6	24 755 66-S	1	Kit, valve train (Includes 8,11,12)
7	24 411 05-S	4	Rod, push
8	24 041 08-S	2	Gasket, cylinder head
9	24 318 12-S	1	Head assembly, #2 cylinder
10	25 186 01-S	4	Arm, rocker
11	24 599 01-S	4	Pivot, rocker arm
12	12 086 16-S	8	Screw, hex. flange M10x1.5x90
13	M-640034-S	4	Screw, hex. flange M6x1.0x34
14	24 755 75-S	1	Kit, valve cover plain (Includes 15-17)
15	24 153 16-S	1	O-Ring
16	24 112 08-S	4	Spacer
17	M-651030-S	4	Screw, hex. flange

Ref. No.	Part No.	Qty.	Description
18	24 445 01-S	1	Strap, lifting
19	24 016 01-S	2	Valve, exhaust (Std.)
	24 016 02-S	2	Valve, exhaust (.25)
20	24 017 01-S	2	Valve, intake (Std.)
	24 017 02-S	2	Valve, intake (.25)
20	24 032 05-S	2	Seal, valve stem
22	235011-S	4	Retainer, spring
23	24 089 02-S	4	Spring, valve
24	12 173 01-S	4	Cap, valve spring
25	12 755 03-S	4	Kit, retainer
26	24 318 11-S	1	Head assembly, #1 cylinder
27	24 755 76-S	1	Kit, valve cover-breather (Includes 15-17,28)
28	25 313 02-S	1	Grommet, rubber
29	24 755 57-S	1	Kit, breather separator (Includes 30,32-35)
30	M-545016-S	2	Screw, hex. flange M5x0.8x16
31	24 445 02-S	1	Strap, breather
32	24 126 44-S	1	Bracket, breather separator

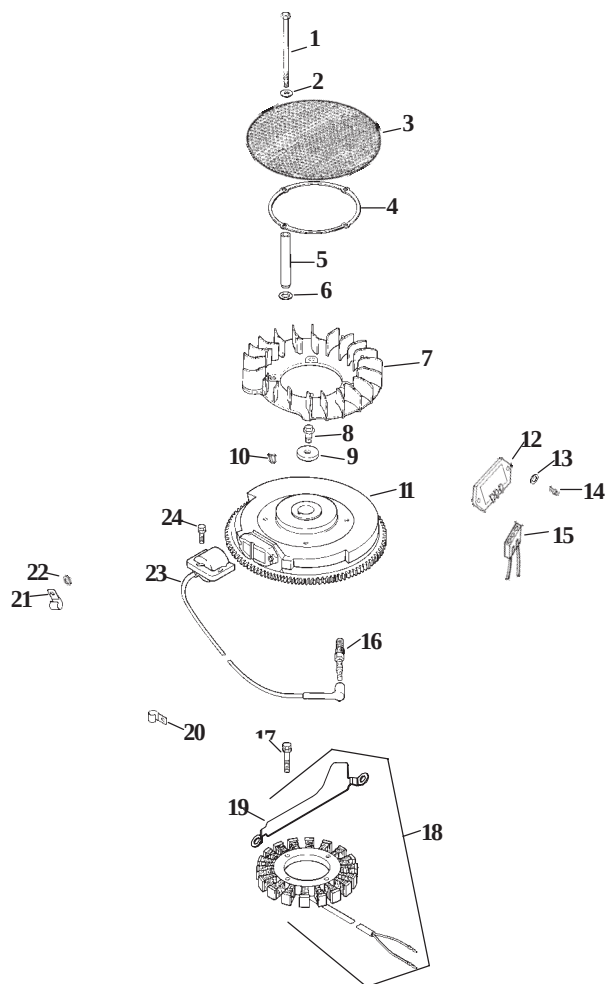
Obtain Parts From Kohler



Group 4 – Head/Valve/Breather Assembly (Continued)
Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
33	24 112 12-S	1	Spacer
34	24 294 01-S	1	Fitting
35	24 326 54-S	1	Hose, breather

Obtain Parts From Kohler



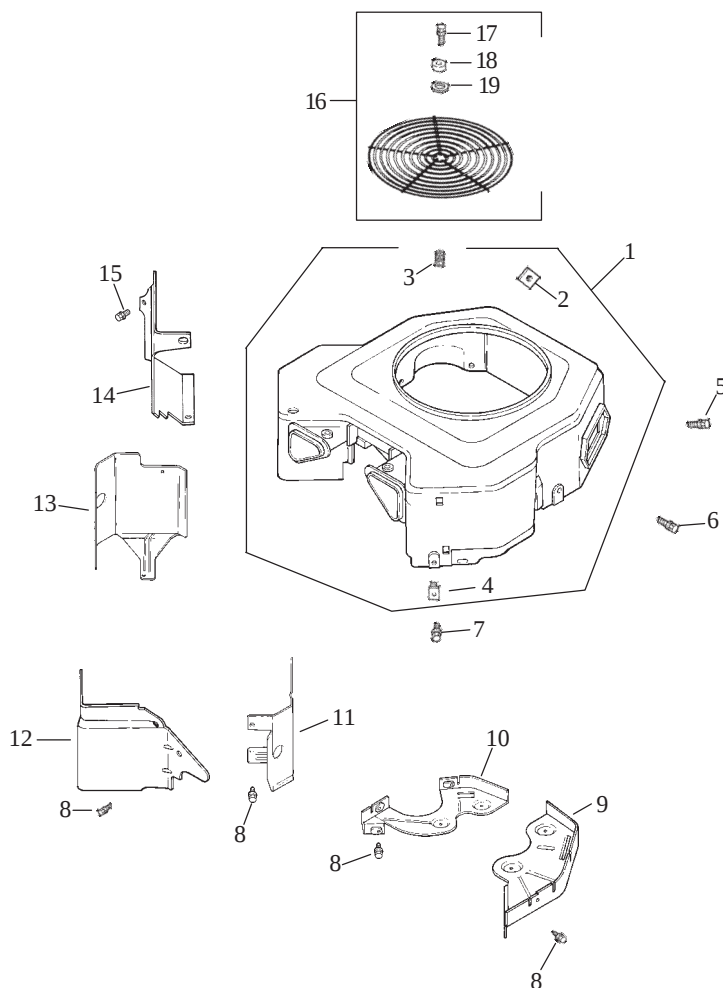
Group 5 – Ignition/Charging Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
1	24 755 79-S	1	Kit, chopper screen (Includes 2-7, and 41 037 10-S)
2	M-603100-S	4	Screw, hex. hd. M6x1.0x100
3	X-25-53-S	4	Washer, plain 1/4
4	24 162 25-S	1	Screen, grass
5	24 141 06-S	1	Ring, support
6	24 112 04-S	4	Spacer, grass screen
7	24 468 11-S	1	Screw, set
8	24 157 03-S	1	Fan
9	12 086 14-S	1	Screw, hex. flange M10x1.5x46
10	12 468 03-S	1	Washer, plain 3/8"
11	X-42-15-S	1	Key
12	24 025 04-S	1	Flywheel
13	25 403 03-S	1	Rectifier-regulator
14	X-25-92-S	2	Washer, plain 3/16"
15	24 086 18-S	2	Screw, phillips hd. 11-16x7/8
16	236602-S	1	Connector (3 contact)
17	12 132 02-S	2	Spark Plug
18	M-548025-S	2	Screw, hex. cap M5x0.8x25

Ref. No.	Part No.	Qty.	Description
19	54 755 09-S	1	Kit, 15 amp stator (Includes 20)
20	24 126 71-S	1	Bracket, stator wire
21	235173-S	1	Clip, cable
22	48 154 02-S	1	Clip, cable
23	X-25-63-S	1	Washer, plain 1/4"
24	24 584 01-S	2	Module, ignition
25	M-545020-S	4	Screw, hex. flange M5x0.8x20
*	X-22-11-S	1	Washer, lock 1/4" (to ground rectifier-regulator)
*			
*	24 176 07-S	1	Harness, wiring
*	24 518 12-S	1	Lead, black (rectifier-regulator 5"-12 gauge – insulated grip barrel eyelets)
*	24 113 18-S	1	Decal, grass screen
*	25 454 03-S	3	Tie, wire

* Not Illustrated

Obtain Parts From Kohler



Group 6 – Blower Housing Assembly Kohler CV20S-PS65585

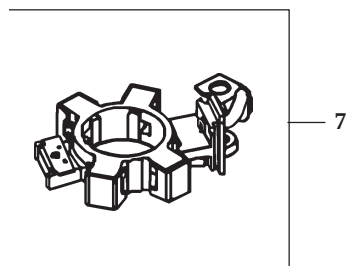
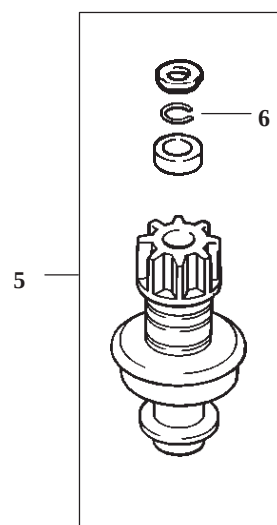
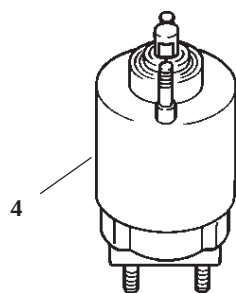
Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 027 119-S	1	Housing, blower (Includes 2-4 & 24 332 01-S)	15	M-545010-S	2	Screw, hex. flange M5x0.8x10
2	24 100 01-S	2	Nut, plastic	16	24 755 94-S	1	Kit, guard (Includes 17-19 & 24 332 01-S)
3	25 086 43-S	1	Screw, set	17	24 086 39-S	3	Screw, pan hd. M5x0.8x15
4	24 100 02-S	2	Nut, plastic	18	24 112 09-S	3	Spacer
7	M-545020-S	4	Screw, hex. flange M5x0.8x20	19	24 468 10-S	3	Washer, plain 1/4"
8	M-545016-S	3	Screw, hex. flange M5x0.8x16		*24 332 01-S	3	Insert, threaded
5	M-551016-S	1	Screw, hex. flange M5x0.8x16		*24 113 95-S	1	Decal, 20 HP
8	M-645016-S	6	Screw, hex. flange M6x1.0x16				
9	24 146 16-S	1	Plate, backing – # 2 side				
10	24 146 20-S	1	Plate, backing – # 1 side				
11	24 063 20-S	1	Baffle, cylinder barrel #2 side				
12	24 063 14-S	1	Baffle, valley – #2 side				
13	24 063 58-S	1	Baffle, cylinder barrel– # 1 side				
14	24 063 23-S	1	Baffle, valley – #1 side				

* Not Illustrated

Obtain Parts From Kohler



3

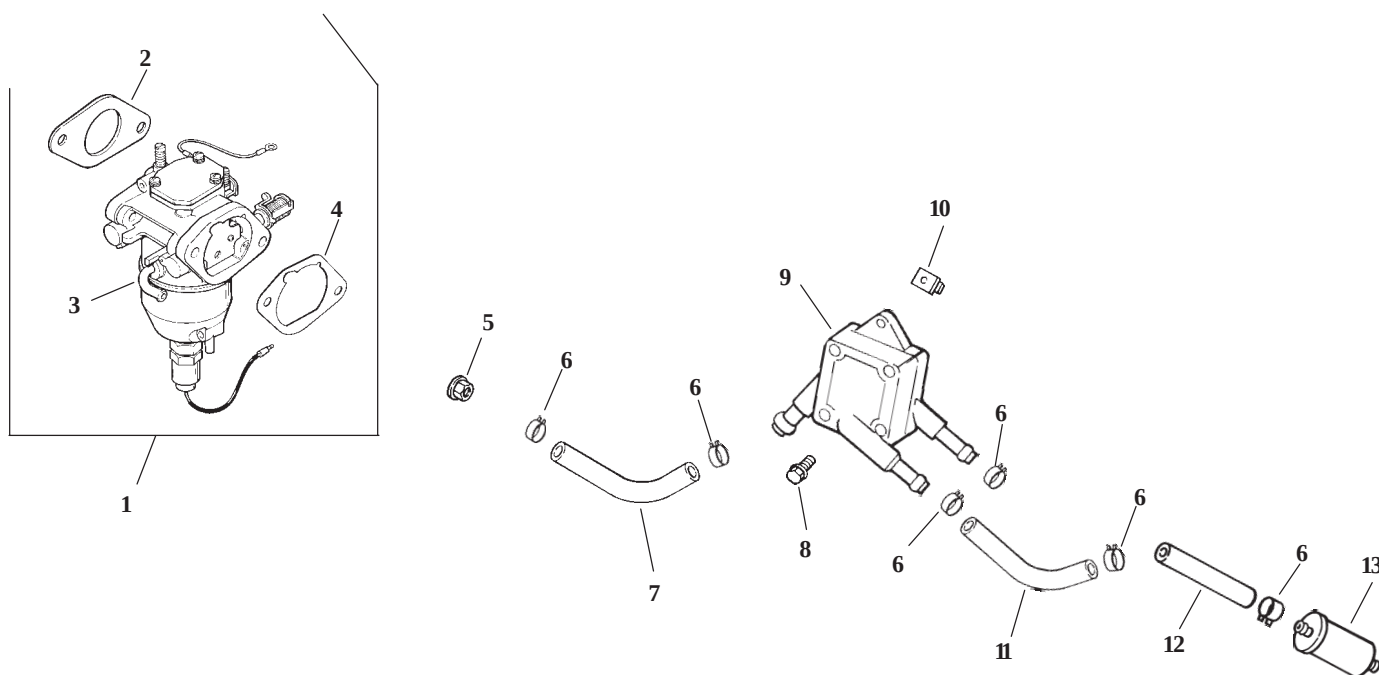


Group 7 – Starter Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
1	M-839080-S	2	Screw, hex. flange M8x1.25x80
2	25 098 08-S	1	Starter, solenoid shift (Includes 3-7)
3	M-841080-S	1	Nut, hex. flange M8x1.25
4	25 435 04-S	1	Solenoid
5	25 755 33-S	1	Kit, drive (Includes 6)
6	25 141 05-S	1	Ring
7	25 221 01-S	1	Kit, brush

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

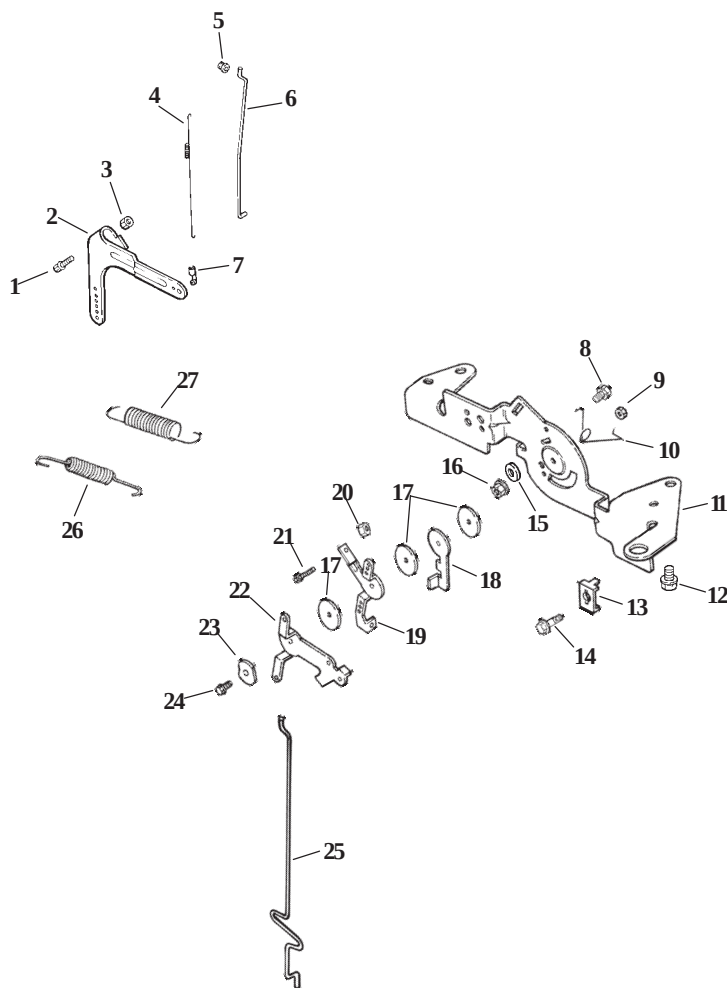


Group 8 – Fuel System Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	24 853 17-S	1	Kit, carburetor w/gaskets (Includes 2-4)	12	25 353 03-S	1	Line, fuel 12-1/3"
2	24 041 15-S	1	Gasket, carburetor	13	24 050 02-S	1	Filter, fuel
3	24 053 17	1	Carburetor assembly (For information only not available separately) (Service with kits 24 757 18-S, 24 757 19-S, 24 757 20-S, & 24 757 22-S)	*	24 757 18-S	1	Kit, overhaul w/gaskets
4	24 041 14-S	1	Gasket, air cleaner base	*	24 757 19-S	1	Kit, choke repair w/gaskets
5	M-641060-S	2	Nut, hex. flange M6x0.8	*	24 757 20-S	1	Kit, gasket w/gaskets
6	X-426-9-S	6	Clamp, hose	*	24 757 22-S	1	Kit, solenoid replacement w/gaskets
7	24 353 33-S	1	Line, fuel				
8	24 086 12-S	2	Screw, hex. cap M6x1.7x18				
9	24 393 16-S	1	Pump, fuel				
10	24 100 01-S	2	Nut, plastic				
11	24 353 03-S	1	Line, fuel 10-5/8"				

* Not Illustrated

Obtain Parts From Kohler

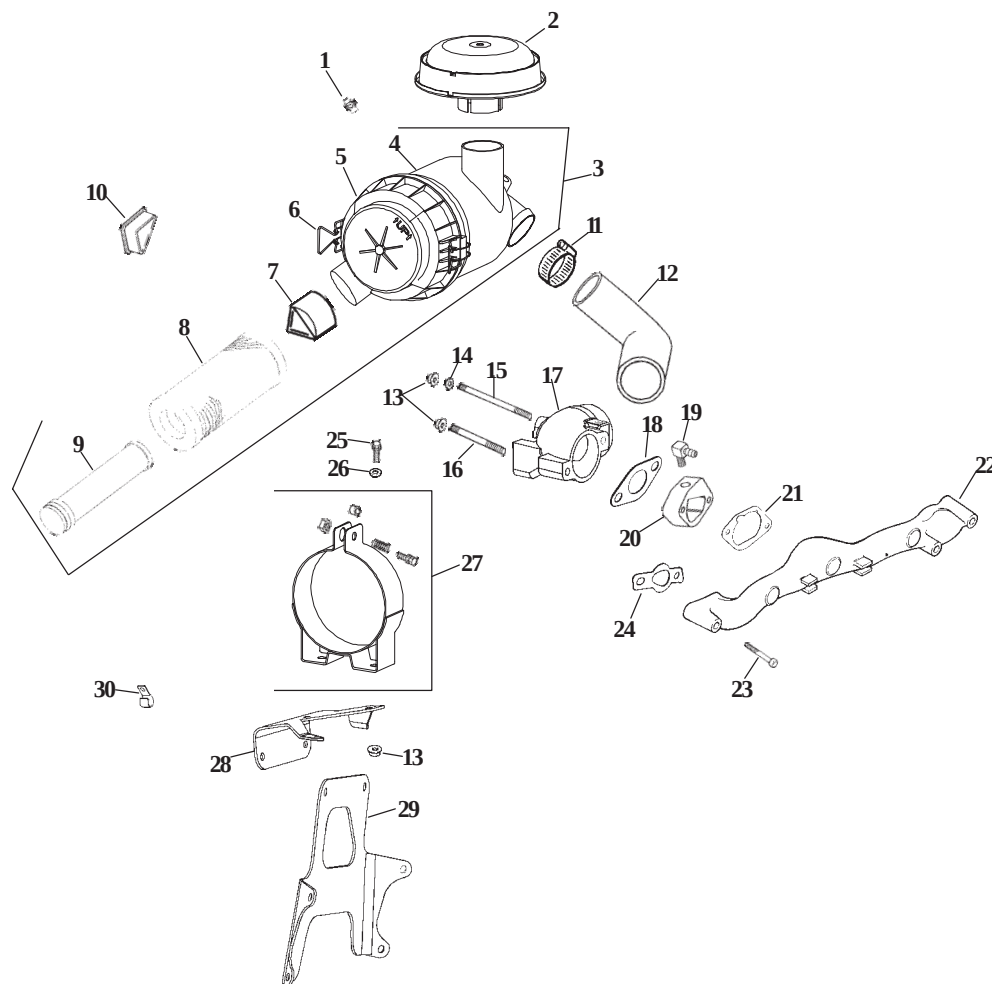


Group 9 – Engine Control Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description
1	24 211 03-S	1	Bolt, rd. hd. sq. neck M6x1.0x25
2	24 090 33-S	1	Lever, governor
3	M-641060-S	1	Nut, hex. flange M6x1.0
4	24 089 01-S	1	Spring, linkage
5	25 158 08-S	1	Bushing, linkage retaining
6	24 079 04-S	1	Linkage, throttle
7	25 158 11-S	2	Bushing, throttle linkage
11	24 126 59-S	1	Bracket, control
12	M-645016-S	4	Screw, hex. flange M6x1.0x16
13	12 237 01-S	2	Clamp, cable
14	M-545016-S	2	Screw, hex. flange M5x0.8x16
15	24 090 07-S	1	Lever, throttle control
16	X-20-1-S	1	Washer, lock
17	M-541050-S	1	Nut, hex. flange M5x0.8
18	24 468 01-S	3	Washer
19	24 089 46-S	1	Spring, governor
20	M-446030-S	1	Nut, hex. M4x0.7

Ref. No.	Part No.	Qty.	Description
21	24 090 03-S	1	Lever, throttle control
22	M-403025-S	1	Screw, hex. flange
23	24 089 51-S	1	Spring, throttle limiter
24	24 090 05-S	1	Lever, choke
26	41 468 03-S	1	Washer, wave
27	24 079 05-S	1	Linkage, choke

Obtain Parts From Kohler

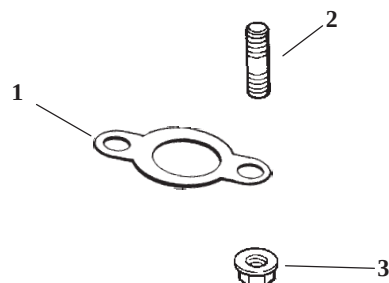


Group 10 – Air Intake/Filtration Assembly Kohler CV20S-PS65585

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	25 139 20-S	1	Plug, pipe	17	24 029 43-S	1	Adapter, elbow
2	25 324 02-S	1	Hood, air cleaner	18	24 041 44-S	1	Gasket, air cleaner adapter
3	25 048 07-S	1	Assembly, air cleaner (Includes 4-9)	19	25 155 38-S	1	Connector, hose
4	25 081 01-S	1	Housing, heavy duty air cleaner	20	24 029 44-S	1	Adapter, breather fitting
5	25 096 06-S	1	Cover assembly, plastic air cleaner	21	24 041 14-S	1	Gasket, air cleaner base
6	25 154 05-S	2	Clip	22	24 164 06-S	1	Manifold, intake
7	24 462 07-S	1	Valve, dust ejector	23	25 086 84-S	4	Screw, hex. flange M6x1.0x55
8	25 083 01-S	1	Element, air cleaner primary	24	24 041 01-S	2	Gasket, intake manifold
9	25 083 04-S	1	Element, air cleaner safety	25	M-639016-S	2	Screw, hex. flange M6x1.0x16
10	24 096 17-S	2	Cover, blower housing	26	X-25-73-S	2	Washer, plain 1/4
11	25 237 07-S	2	Clamp, hose	27	25 126 02-S	1	Bracket, air cleaner
12	24 326 53-S	1	Hose, air cleaner	28	24 126 104-S	1	Bracket, air cleaner mounting
13	M-647060-S	4	Nut, hex. lock M6x1.0x60	29	24 126 105-S	1	Bracket, main support
14	25 468 01-S	1	Washer, copper 1/4	30	47 154 01-S	1	Clip, cable
15	24 072 10-S	1	Stud M6x1.0x180		*25 454 04-S	1	Tie, wire
16	M-629140-S	1	Stud, carburetor M6x1.0x40				

* Not Illustrated

Obtain Parts From Kohler



Group 11 – Exhaust Assembly Kohler CV20S–PS65585

Ref. No.	Part No.	Qty.	Description
1	24 041 02-S	2	Gasket, exhaust
2	25 072 04-S	4	Stud, M8x1.25x33 (4)
3	M-841080-S	4	Nut, hex. flange M8x1.25
	24 522 233	1	Short Block
	24 782 24	1	Miniblock
	24 755 107-S	1	Gasket Set

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

Maintenance Record

[illegible]

Maintenance Record

[illegible]

Maintenance Record

[illegible]

