Form No. 3329–903

Z148

Z Master® with 44in SFS Side Discharge Mower

Model No. 74199—230000001 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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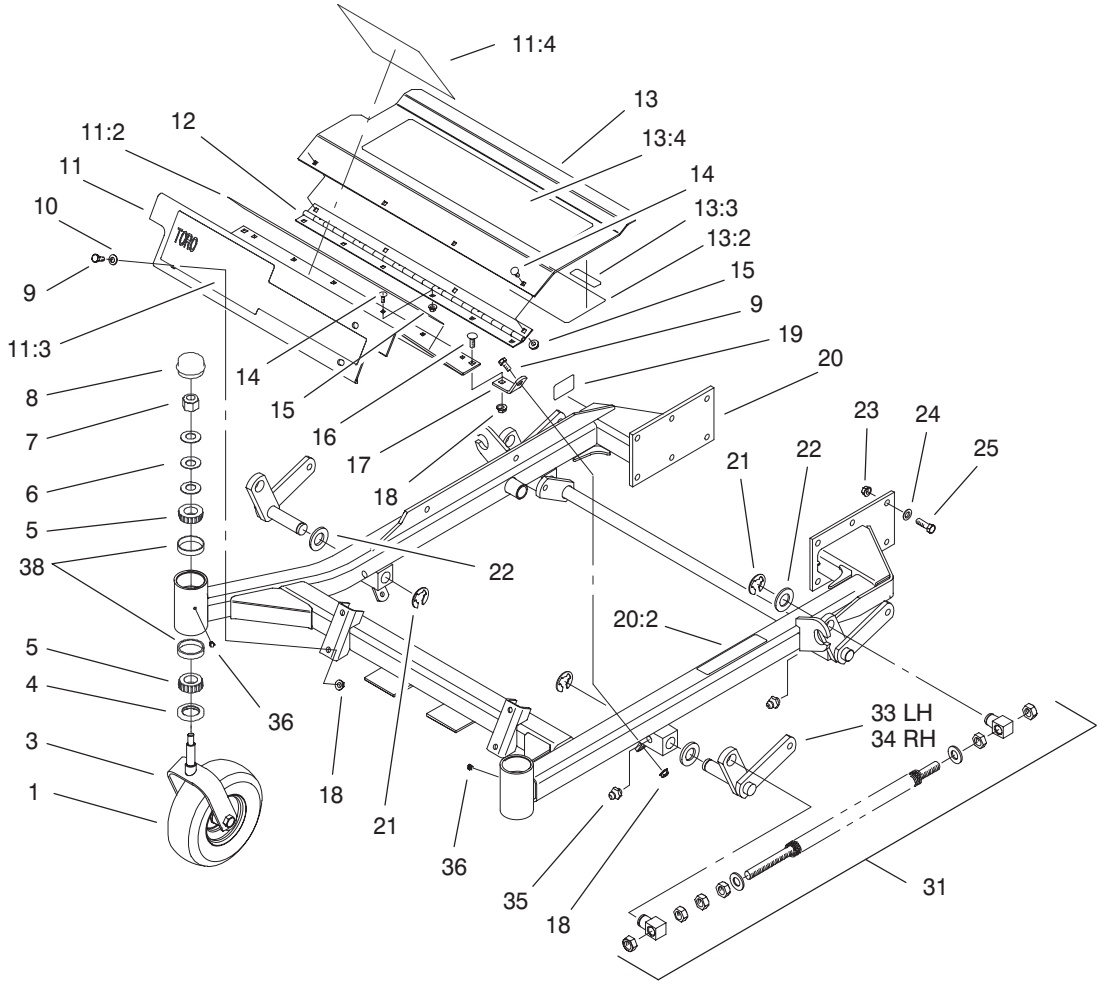
Accessories

Description	Model / Part No.
Atomic Blade	104–1300
Striping Kit	106–3370
Recycler Kit	59220
Z Recycler Kit	57226
High Sail Blade	55–4940–03
DFS Bagger	78490
DFS Bagger Finishing Kit	78492
Twin Bagger Kit	78455
Twin Bagger Finishing Kit	78508
Steel Grass Catcher	30107
Z Stand Kit	105–1621
Hitch Kit	99–8924
Filter Minder	99–4664
Suspension Seat	99–8522
ROPS	TORO Dealer

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

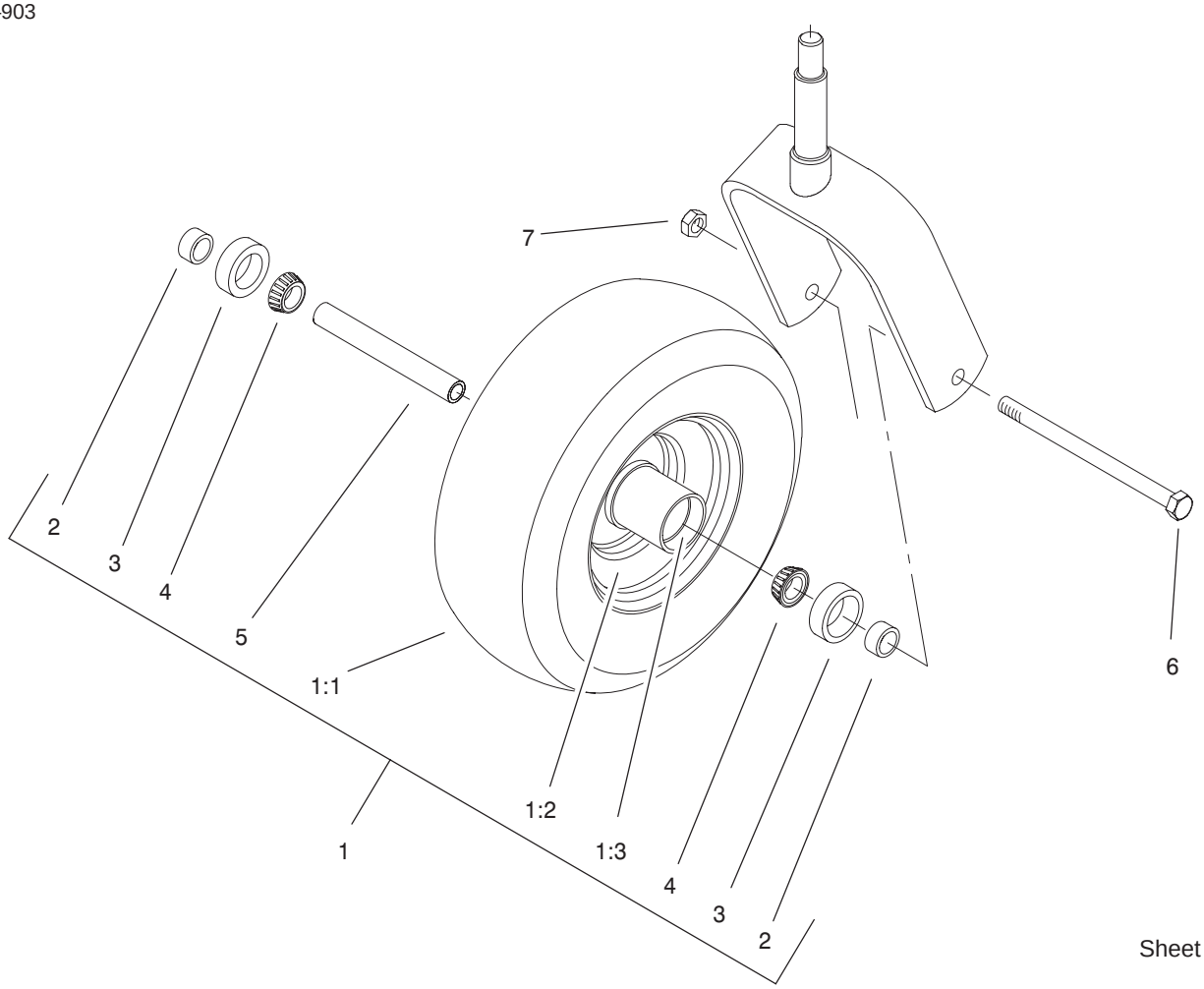


Sheet No.:2

Front Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	1–634662	2	Caster Wheel ASM
3	1–632511–01	2	Caster
4	1–543511	2	Seal–Grease
5	254–94	4	Bearing–Cone, Taper
6	1–633508	6	Washer–Bellville
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	106–6588	1	Floorpan ASM
11:2	1–633553	1	Pad–Antiskid
11:3	1–633737	1	Decal
11:4	106–6571	1	Decal–Danger, Slope
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
13:4	1–633553	1	Pad–Antiskid
14	3229–10	10	Screw–CARR
15	32128–33	10	Nut–HF
16	3230–1	2	Bolt–CARR
17	99–3870–01	2	Bracket–Floorpan
18	32128–20	8	Nut–HF
19	105–2625	1	Decal–STD, Safety
20	106–6581	1	Front Frame W/Decal
20:2	1–633818	1	Decal–Warning

Ref. No.	Part No.	Qty.	Description
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
33	99–3871–01	1	LH Lift Arm ASM
34	99–3872–01	1	RH Lift Arm ASM
35	302–19	4	Fitting–Grease
36	1–811010	2	Plug
38	254–72	4	Bearing–Cup, Tapered

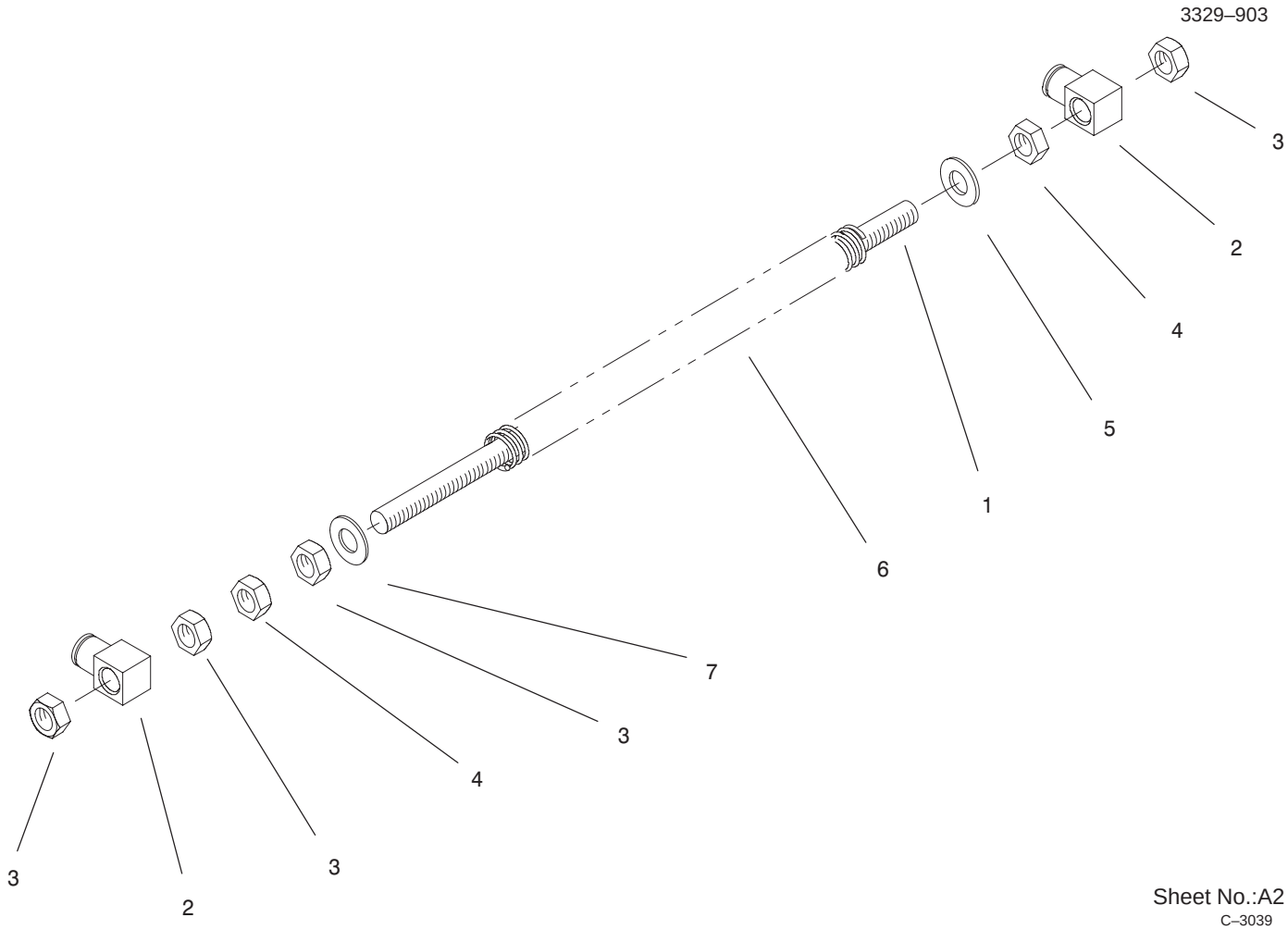


Sheet No.:A1
C–3038

Caster Wheel Assembly No. 1–634662

Ref. No.	Part No.	Qty.	Description
1	1–633582	1	Wheel And Tire ASM
1:1	1–633002	1	Tire
1:2	1–633583	1	Wheel
1:3	1–633584	2	Bearing–Cup
2	1–633581	2	Spacer–Bearing
3	1–633580	2	Seal–Bearing
4	1–633585	2	Bearing–Cone, Taper
5	1–633579	1	Spacer–Caster, Front
6	325–36	1	Screw–HH
7	3296–45	1	Nut–Lock, NI

Ref. No.	Part No.	Qty.	Description

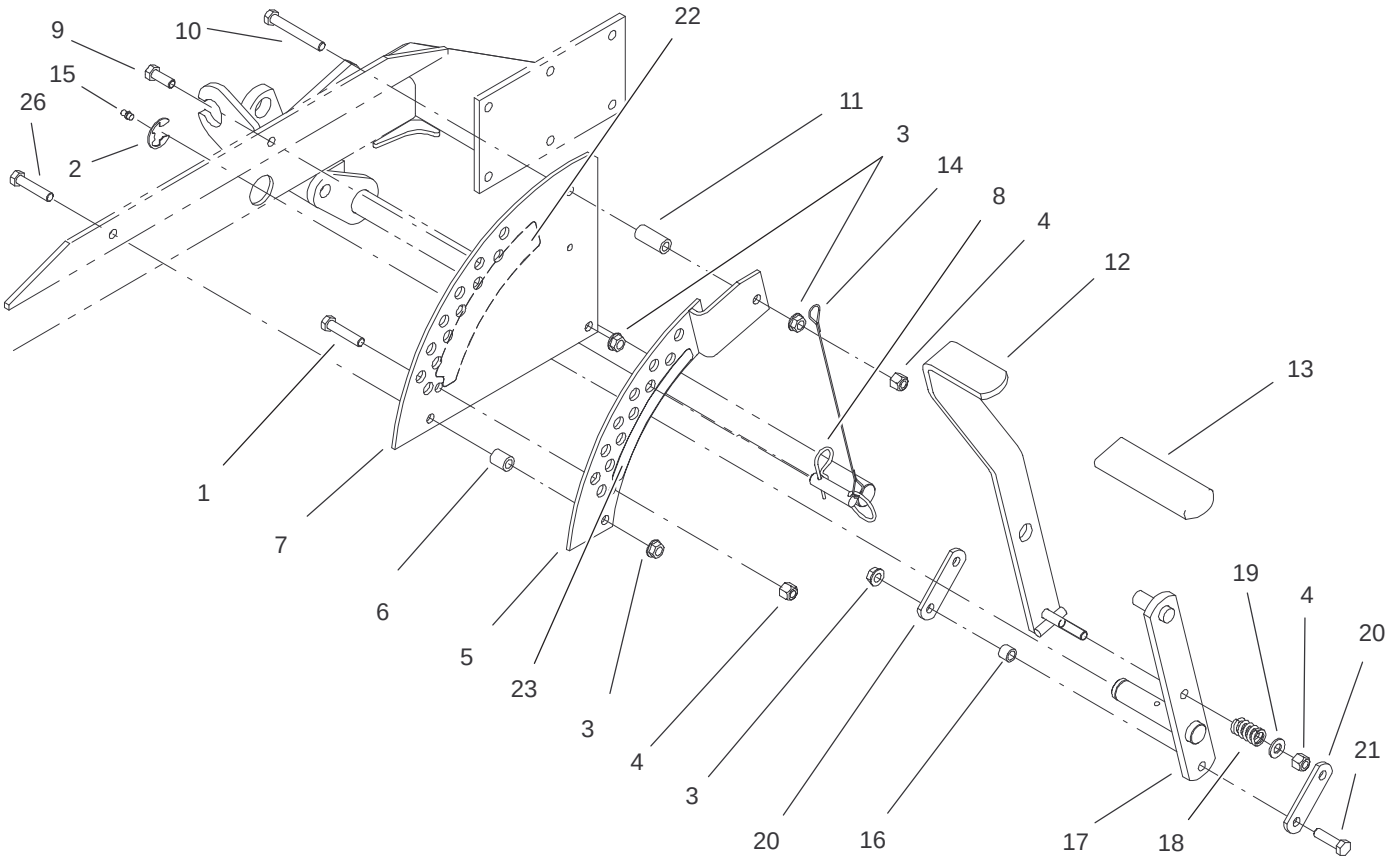


Sheet No.:A2
C–3039

Front Spring Assembly No. 103–1987

Ref. No.	Part No.	Qty.	Description
1	1–653011	1	Rod–Lift, Deck
2	1–633441	2	Swivel–Deck Mount, Rear
3	3217–11	4	Nut–Hex
4	3218–6	2	Nut–Jam
5	1–805517	1	Washer
6	1–653009	1	Spring–Compression
7	3256–27	1	Washer–Flat

Ref. No.	Part No.	Qty.	Description

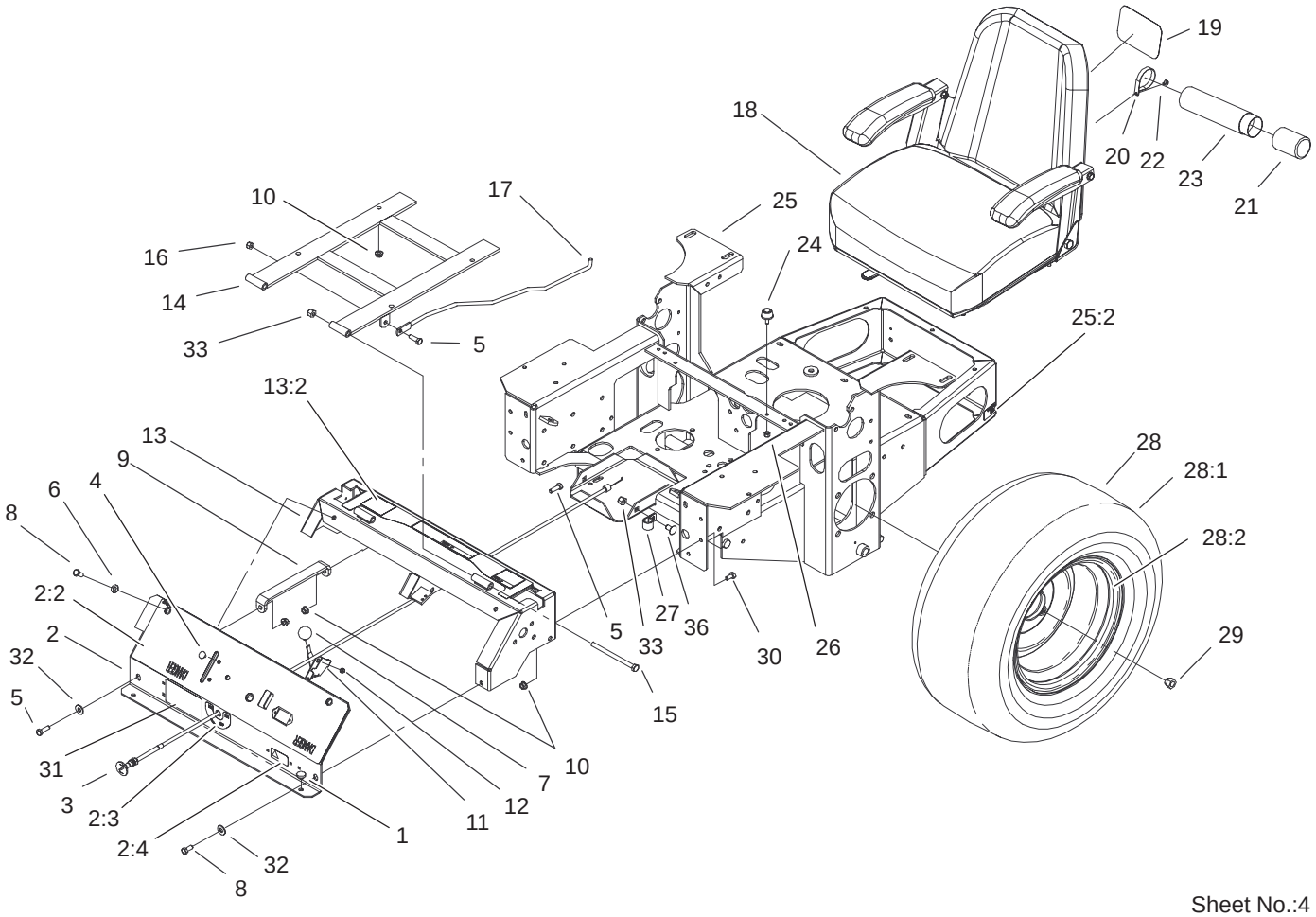


Sheet No.:3

Height of Cut Assembly

Ref. No.	Part No.	Qty.	Description
1	323–9	1	Screw–HH
2	32151–103	1	Ring–Snap
3	3290–357	5	Nut–HHF
4	3296–39	3	Nut–Lock, NI
5	1–652235–01	1	Plate–Lift, Deck
6	1–633080	1	Bushing–Lever, Lift
7	1–653230–01	1	Plate–Lift, Deck
8	1–806005	1	Pin–Hair
9	323–6	1	Screw–HH
10	323–13	1	Screw–HH
11	1–633082	1	Bushing–Lever, Lift
12	103–2078–03	1	Handle–Lift
13	1–633295	1	Grip–Lever, Lift
14	1–633097	1	Pin–Hitch W/Lanyard
15	302–19	1	Fitting–Grease
16	103–1918	2	Bushing
17	106–6598–03	1	Lift Arm ASM
18	1–633325	1	Spring–Compression
19	3256–24	1	Washer–Flat
20	1–633068	2	Arm–Lift, Deck
21	323–29	2	Screw–HH
22	1–653140	1	Decal–Deck Height, Outer
23	1–653147	1	Decal–Deck Height, Inner
26	323–8	1	Screw–HH

Ref. No.	Part No.	Qty.	Description

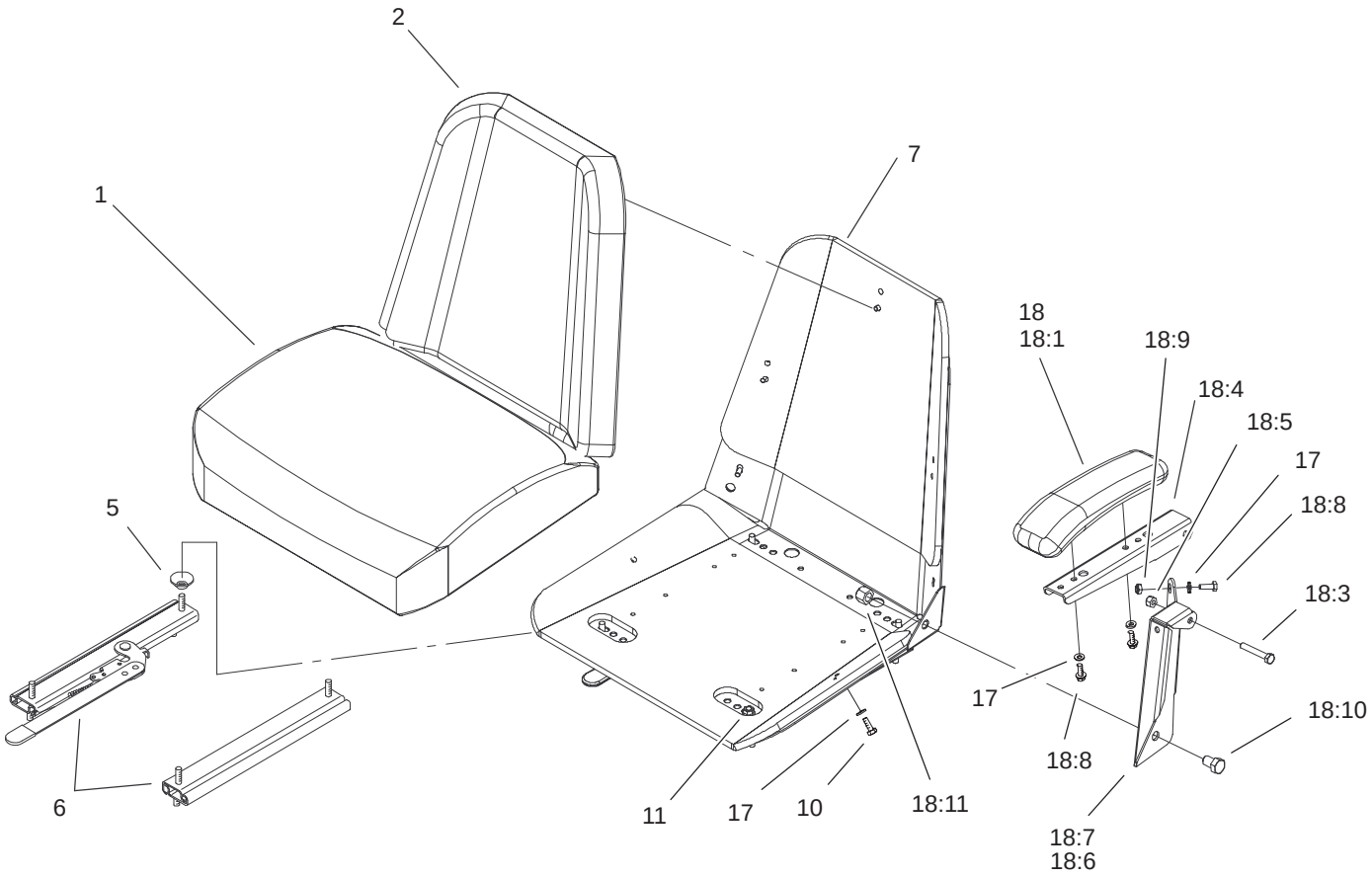


Sheet No.:4

Main Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	1–513658	2	Bumper–Catcher, Grass
2	106–6589	1	Console ASM
2:2	106–6586	1	Decal–Panel, Control
2:3	103–0262	1	Decal–Valve, Fuel
2:4	98–4387	1	Decal–Protection, Ear
3	103–4090	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
8	322–3	3	Screw–HH
9	1–653089–03	1	Bracket
10	32128–20	12	Nut–HF
11	106–9952	1	Cable–Throttle
12	3296–2	2	Nut–Lock
13	105–6123	1	Console Frame ASM
13:2	103–1997	1	Decal–Console, Top
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	106–9964	1	Seat ASM
19	99–4693	1	Decal–Logo, Toro
20	2412–120	2	R–Clamp
21	104–7048	1	Cap–Housing

Ref. No.	Part No.	Qty.	Description
22	32104–76	2	Screw
23	104–7050	1	Housing–Manual
24	1–523420	2	Bumper
25	105–3649	1	Main Frame ASM
25:2	65–2690	2	Decal–Surface, Hot
26	3296–42	2	Nut–Lock, NI
27	1–633396	1	Clip–Loom
28	1–653010	2	Wheel And Tire ASM
28:1	1–653160	1	Tire
28:2	1–653158	1	Wheel
29	242–50	8	Nut–Lug
30	322–2	6	Screw–HH
31	99–4604	1	Decal
32	3256–3	2	Washer–Flat
33	3296–39	3	Nut–Lock, NI
36	3231–21	1	Screw–CARR



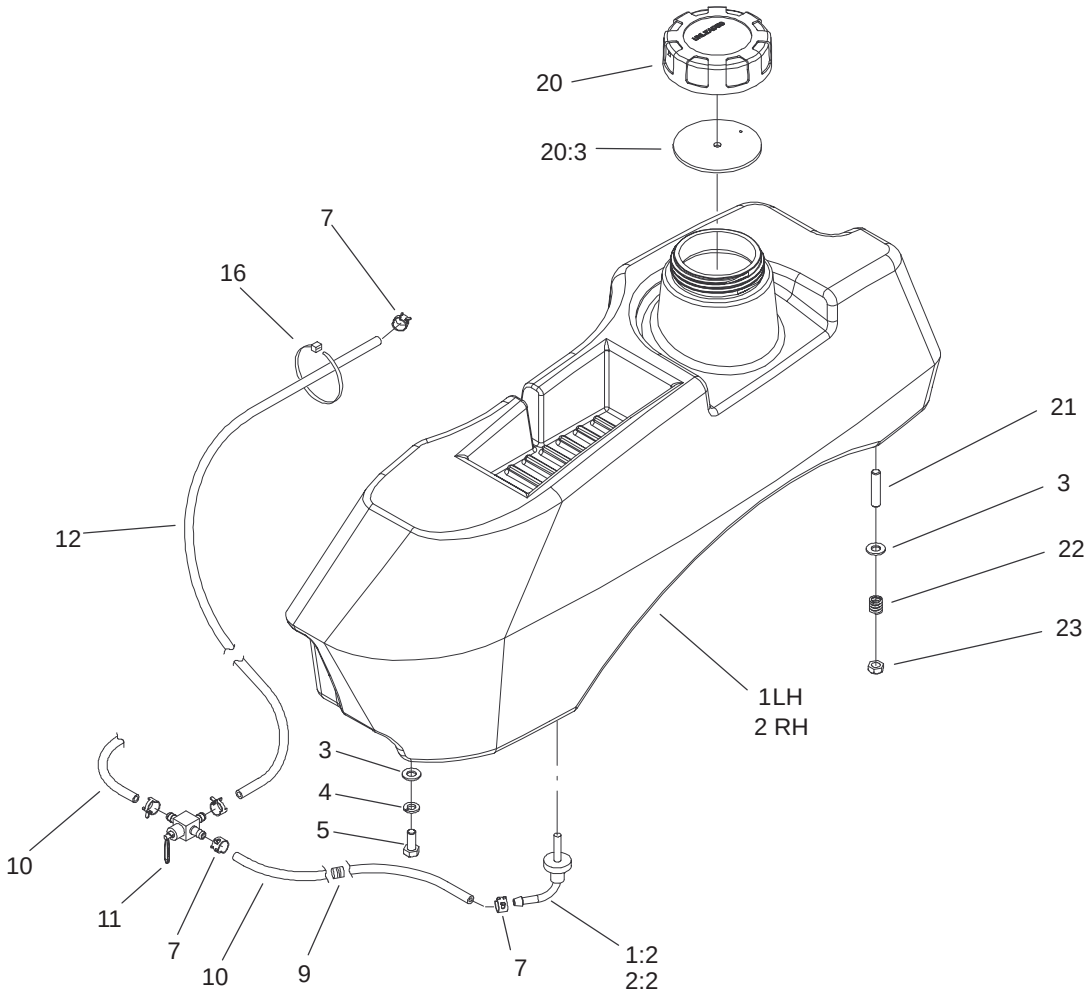
Sheet No.:A3
C–3037

Seat Assembly No. 106–9964

Ref. No.	Part No.	Qty.	Description
1	103–0290	1	Cushion–Seat, Bottom
2	104–7754	1	Cushion–Seat, Back
5	1–543401	4	Spacer–Track
6	1–643255	1	Track–Seat
7	1–633859	1	Frame–Seat
10	321–4	5	Screw–HH
11	32128–20	4	Nut–HF
17	3256–22	5	Washer–Flat
18	105–3620	1	Armrest Kit
18:1	1–633710	2	Cushion–Armrest
18:3	322–10	2	Screw–HH
18:4	105–3623	2	Channel, Armrest
18:5	32153–3	2	Nut–Lock
*18:6	105–3621	1	Bracket–Armrest, RH
18:7	105–3622	1	Bracket–Armrest, LH
18:8	321–30	6	Screw–HH
18:9	3296–42	2	Nut–Lock, NI
18:10	325–2	2	Screw–HH
18:11	32153–5	2	Nut–Lock

Ref. No.	Part No.	Qty.	Description

* Not illustrated

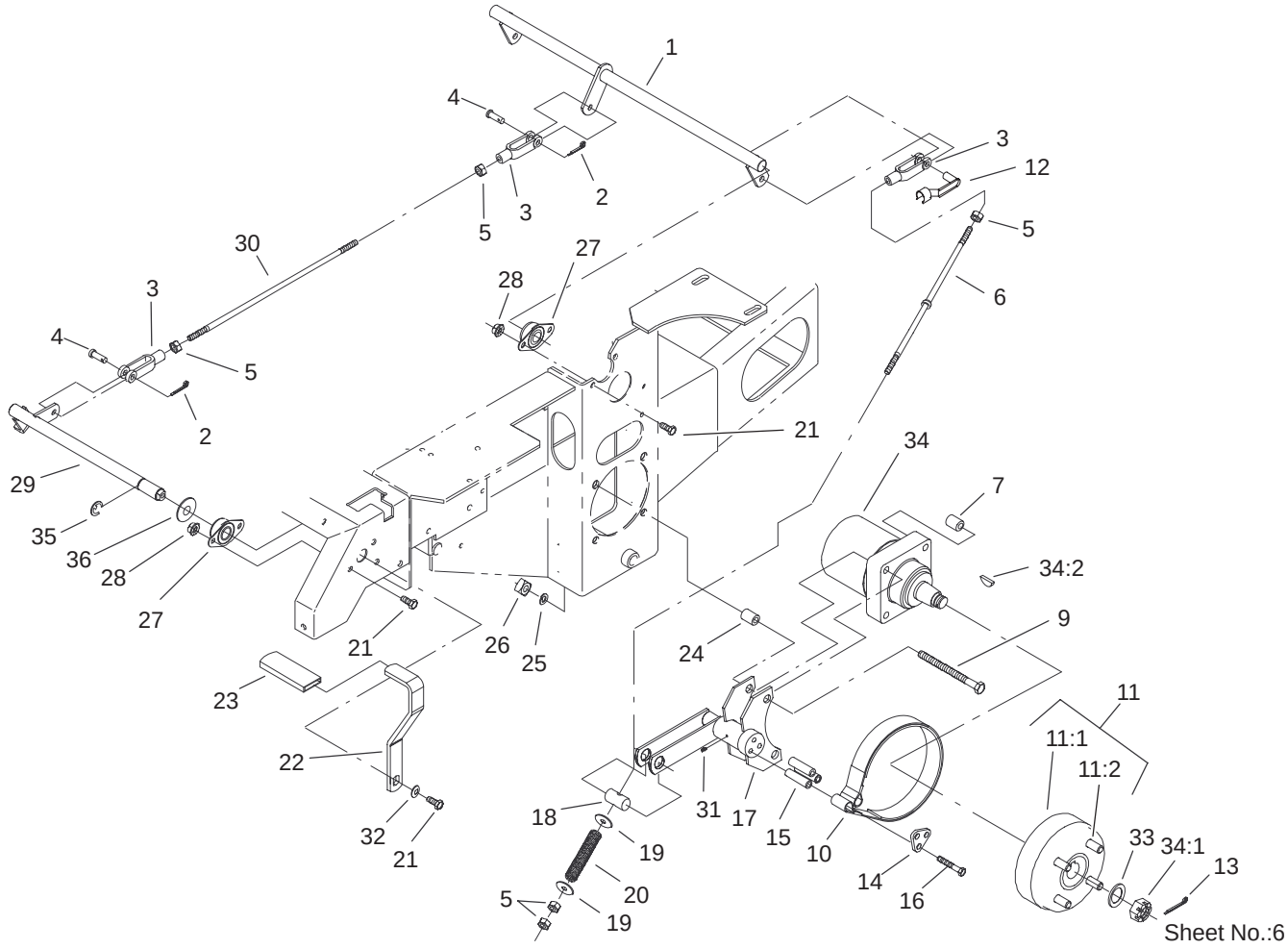


Sheet No.:5

Fuel System Assembly

Ref. No.	Part No.	Qty.	Description
1	106–9976	1	ASM, Tank–Fuel LH
1:2	103–2605	1	Fitting–Fuel, Bulkhead
2	106–9975	1	ASM, Tank–Fuel RH
2:2	103–2605	1	Fitting–Fuel, Bulkhead
3	3256–23	8	Washer–Flat
4	1–805005	4	Washer–Lock
5	322–3	4	Screw–HH
7	1–303077	6	Clamp
9	1–543296	2	Grommet
10	1–543526	2	Hose–Fuel
11	1–633347	1	Valve–Fuel
12	103–4250	1	Hose,Fuel
16	1–303335	1	Tie–Plastic
20	88–3980	2	Gas Cap ASM
20:3	88–4010	1	Gasket–Cap, Gas
21	1–633023	4	Stud
22	1–633349	4	Spring–Tank, Fuel
23	3296–47	4	Nut–Lock, NI

Ref. No.	Part No.	Qty.	Description

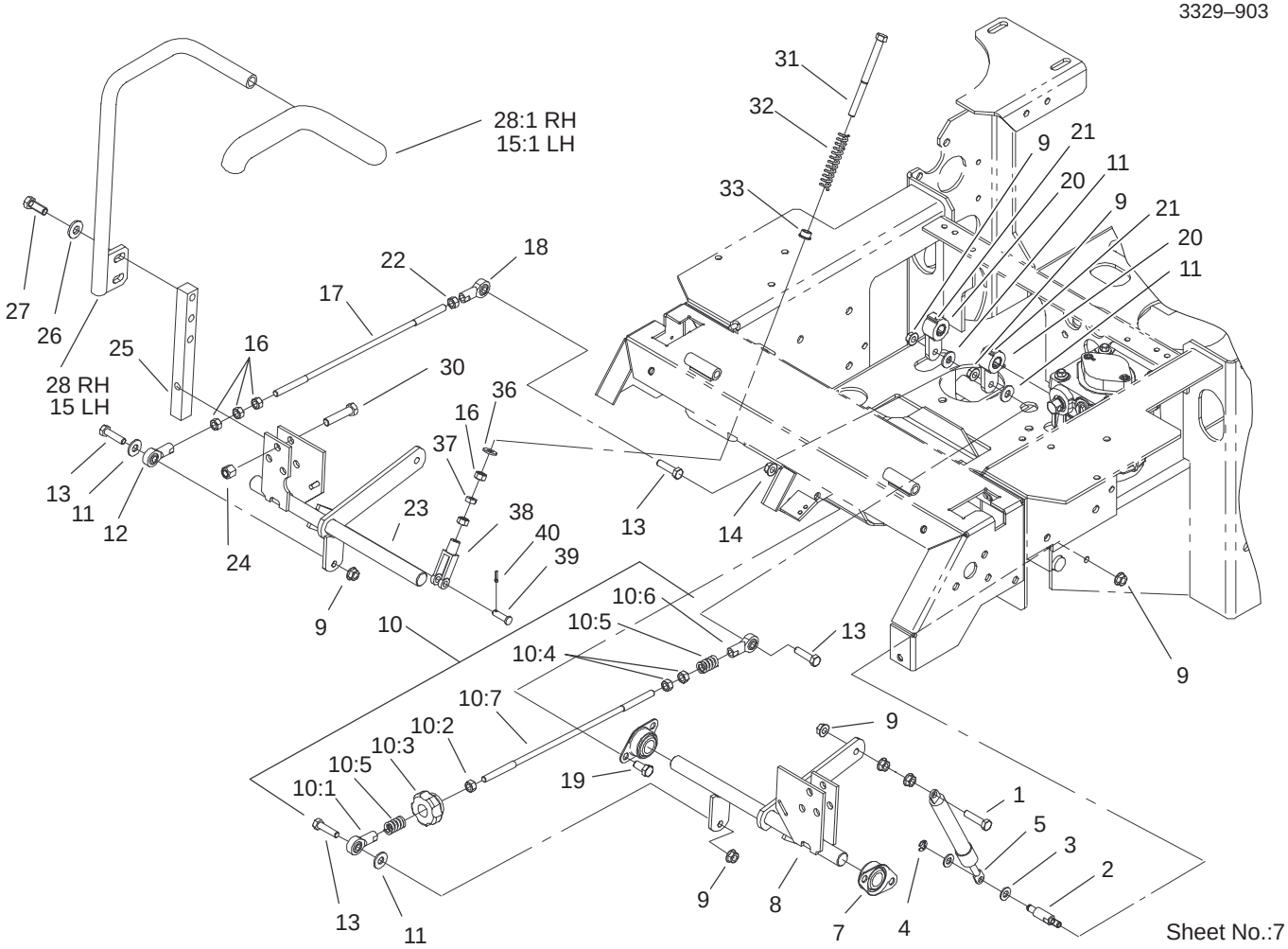


Parking Brake System Assembly

Ref. No.	Part No.	Qty.	Description
1	1–652073–03	1	Crank–Brake, Park
2	3272–10	2	Pin–Cotter
3	1–633131	4	Yoke–Linkage, Brake
4	1–808285	2	Pin–Clevis
5	3219–3	8	Nut–HH
6	103–0356	2	Rod–Brake
7	1–653068	4	Spacer–Wheel
9	325–13	8	Screw–HH
10	103–0355	2	Band–Brake
11	103–0590	2	Hub–Wheel
11:1	103–0589	1	Hub–Wheel
11:2	1–633926	4	Stud–Wheel
12	103–2399	2	Pin–Spring, Clevis
13	1–806800	2	Pin–Cotter
14	103–0374	2	Retainer–Band, Brake
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

Ref. No.	Part No.	Qty.	Description
26	103–0131	8	Nut–Square
27	1–633102	4	Bearing–Flange, Side
28	3290–357	8	Nut–HHF
29	103–3116	1	Shaft–Brake, Parking
30	1–653061	1	Linkage–Handle, Brake
31	1481	2	Fitting–Grease
32	98–5975	1	Washer–Belleville
33	1–523157	2	Washer–Spacer
34	1–523328	2	Motor–Wheel
34:1	1–809036	1	Nut–HH
34:2	3257–42	1	Key–Woodruff
*34:99	103–2748	1	Drive Link Kit
*34:99	1–000139	1	Bearing Kit
*34:99	1–000099	1	Seal Kit
35	32151–48	1	E–Ring
36	3256–28	1	Washer–Flat

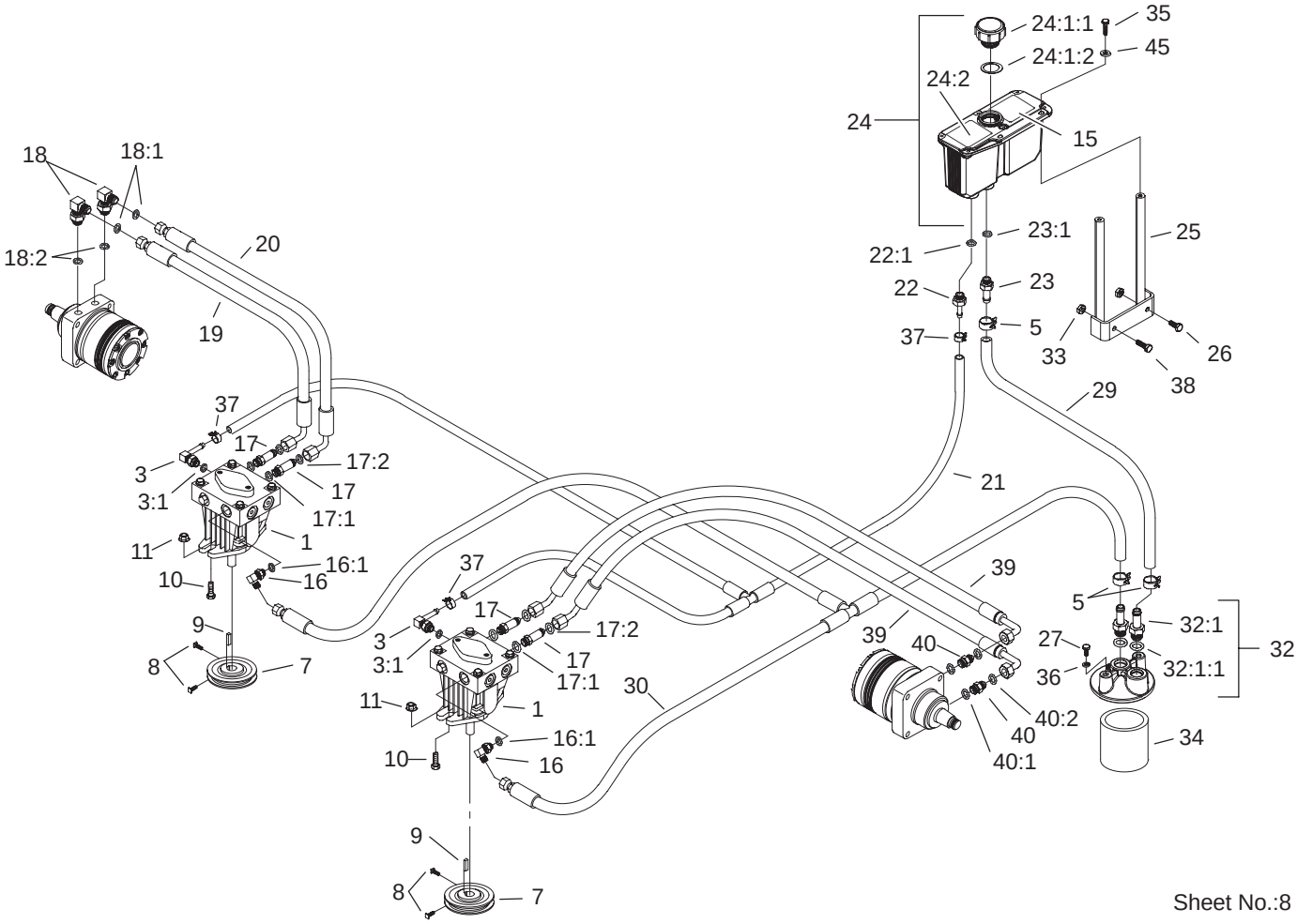
* Not illustrated



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	103–2913	2	Damper–Control, Motion
7	1–633102	4	Bearing–Flange, Side
8	103–2199	1	LH Motion Control ASM
9	32128–20	12	Nut–HF
10	103–3063	1	Tracking Rod ASM
10:1	1–543017	1	Balljoint–RH
10:2	3219–2	1	Nut–Hex
10:3	103–3060	1	Knob–Tracking
10:4	1–804524	2	Nut
10:5	1–323245	2	Spring–Compression
10:6	1–633152	1	Balljoint–Thread, LH
10:7	103–3066	1	Link–Rod, Tracking
11	3256–3	4	Washer–Flat
12	1–543017	1	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	7	Nut–Hex
17	103–3066	1	Link–Rod, Tracking

Ref. No.	Part No.	Qty.	Description
18	1–633152	1	Balljoint–Thread, LH
19	323–4	8	Screw–HH
20	103–3717	2	Arm–Control, Pump
21	1–803022	2	Screw–Set
22	1–804524	1	Nut
23	103–2200	1	RH Motion Control ASM
24	3296–39	6	Nut–Lock, NI
25	103–0407	2	Arm–Shaft, Control
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



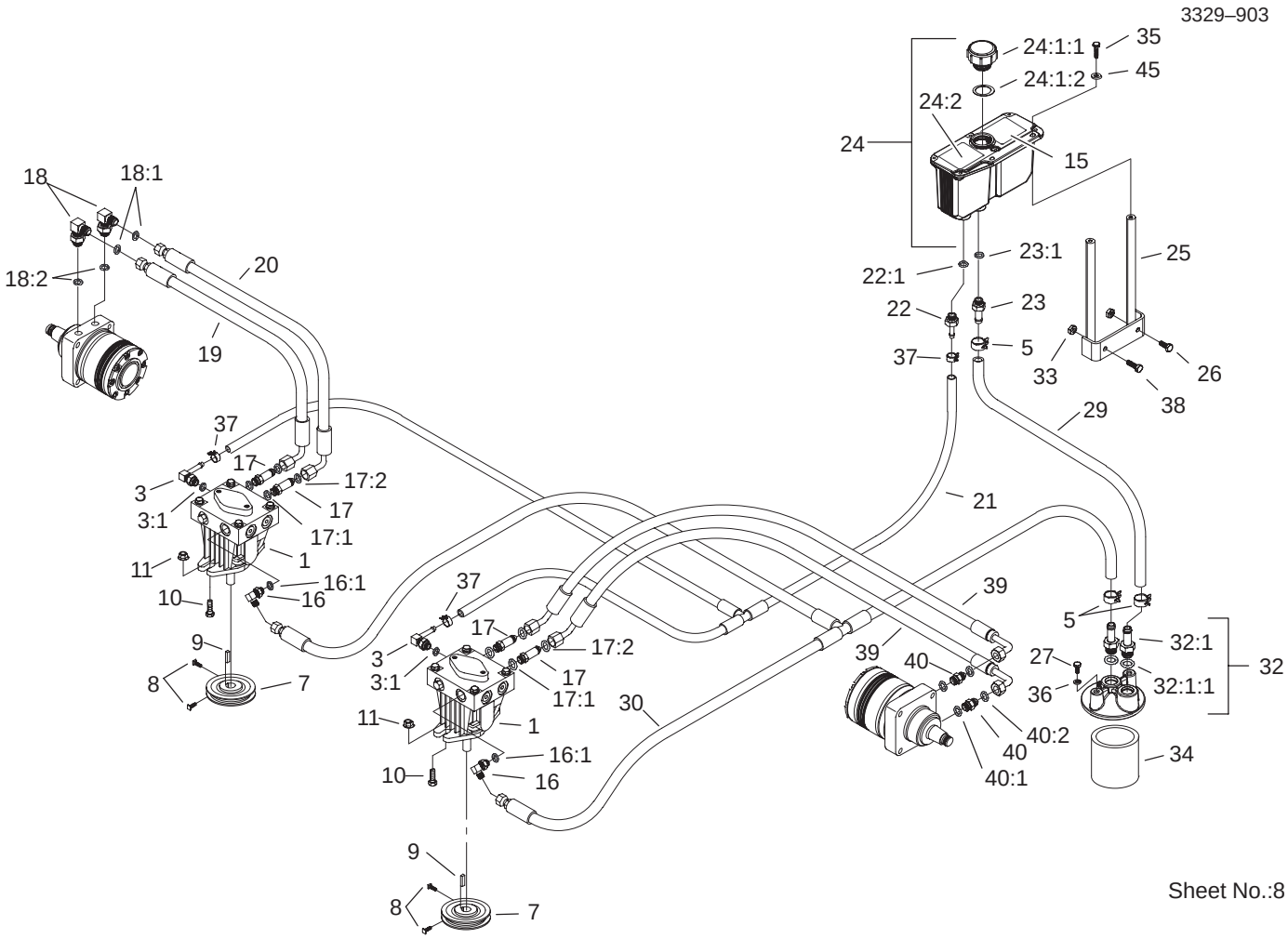
Sheet No.:8

Hydraulic System Assembly

Ref. No.	Part No.	Qty.	Description
1	103–1942	2	Pump–HYD
*1:1	105–6184	1	Seal Overhaul Kit
*1:2	105–6185	1	Plate–Valve
*1:8	103–2664	1	Input Shaft Kit
*1:9	94–6922	1	Bearing–Thrust
*1:10	103–2666	1	Cylinder Block Kit
*1:14	106–2053	1	Shock Valve Kit
3	103–1799	2	Elbow–90°
3:1	237–42	1	O–Ring
5	103–1988	3	Clamp–Hose
7	1–653156	2	Sheave
8	1–803050	4	Screw–Set
9	1–807272	2	Key
10	323–7	4	Screw–HH
11	3290–357	4	Nut–HHF
15	103–2644	1	Decal–Exhaust
16	103–1802	2	Fitting–HYD, 90°
16:1	237–42	1	O–Ring
17	103–1940	4	Adapter–HYD, Straight
17:1	237–79	1	O–Ring
17:2	1–603992	1	O–Ring
18	1–633605	2	Fitting–HYD, 90°
18:1	1–603992	1	O–Ring
18:2	237–80	1	O–Ring
19	1–653186	1	Hose–Front
20	1–653187	1	Hose–RH, Rear

Ref. No.	Part No.	Qty.	Description
21	103–2357	1	HYD Hose ASM
22	103–1801	1	Adapter–Straight
22:1	237–42	1	O–Ring
23	103–1912	1	Adapter–Straight
23:1	237–42	1	O–Ring
24	103–1947	1	HYD Reservoir ASM
☆24:1		1	Reservoir–HYD
24:1:1	103–1948	1	Cap–Reservoir, HYD
24:1:2	103–1949	1	Gasket–Cap
24:2	1–523552	1	Decal–Tank, HYD
25	103–3071–03	1	Stand–Reservoir
26	322–3	1	Screw–HH
27	321–3	2	Screw–HH
29	103–3077	1	HYD Hose ASM
30	103–2930	1	HYD Hose ASM
32	103–2889	1	Filter Head ASM
32:1	103–1912	2	Adapter–Straight
32:1:1	237–42	1	O–Ring
33	32128–20	2	Nut–HF
34	1–633750	1	Filter–HYD
34	1–633752	1	Filter–HYD, Winter
35	321–6	2	Screw–HH
36	1–805004	2	Washer–Lock
37	103–1716	3	Clamp–Hose
38	322–5	1	Screw–HH
39	103–3809	2	Hose–LH

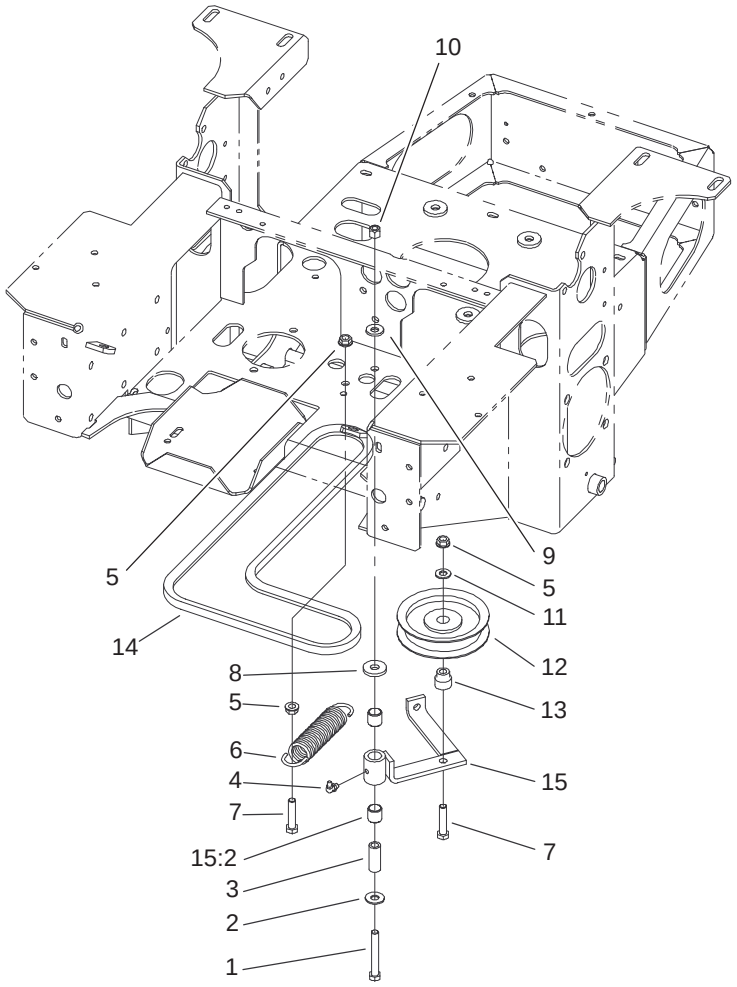
* Not illustrated
☆ Not serviced separately



Hydraulic System Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
40	1–603991	2	Fitting–Straight
40:1	237–80	1	O–Ring
40:2	1–603992	1	O–Ring
45	3256–22	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

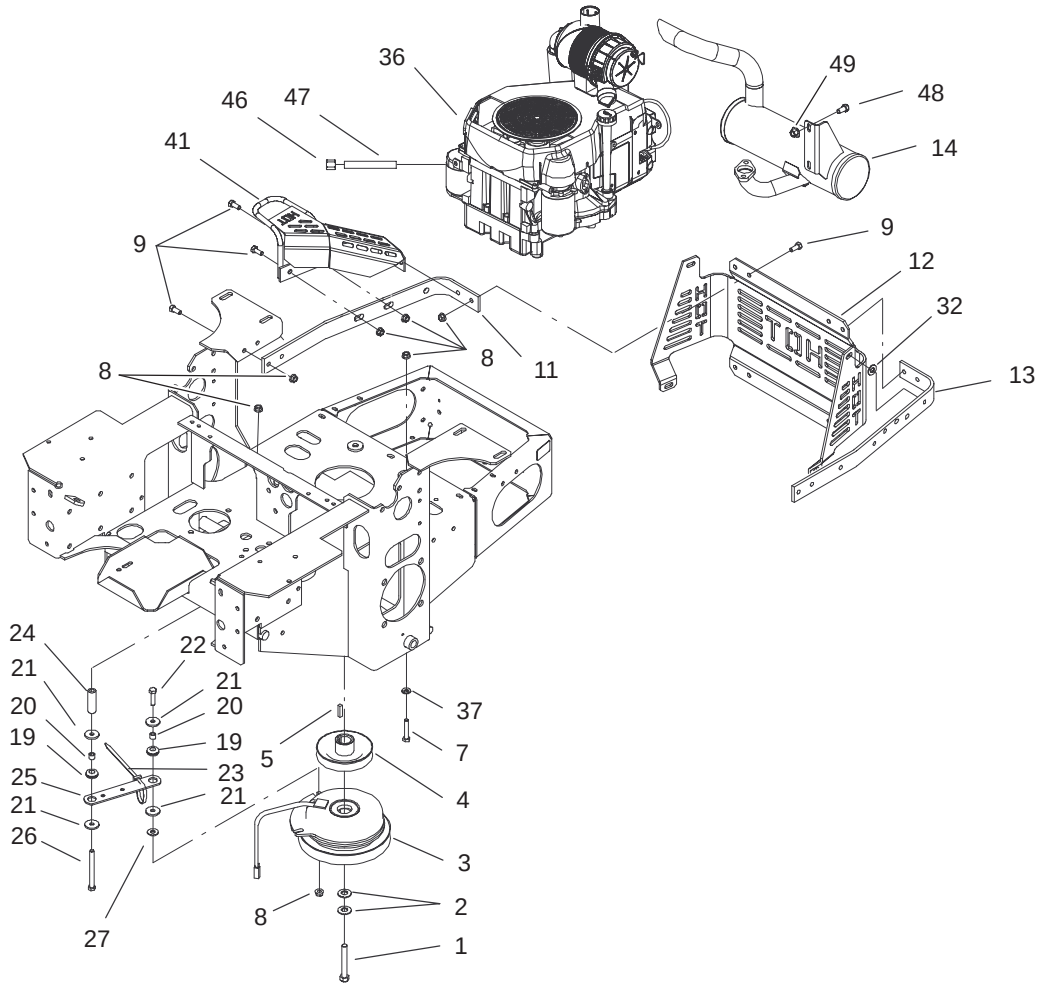


Sheet No.:9

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	63–8410	1	Washer
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



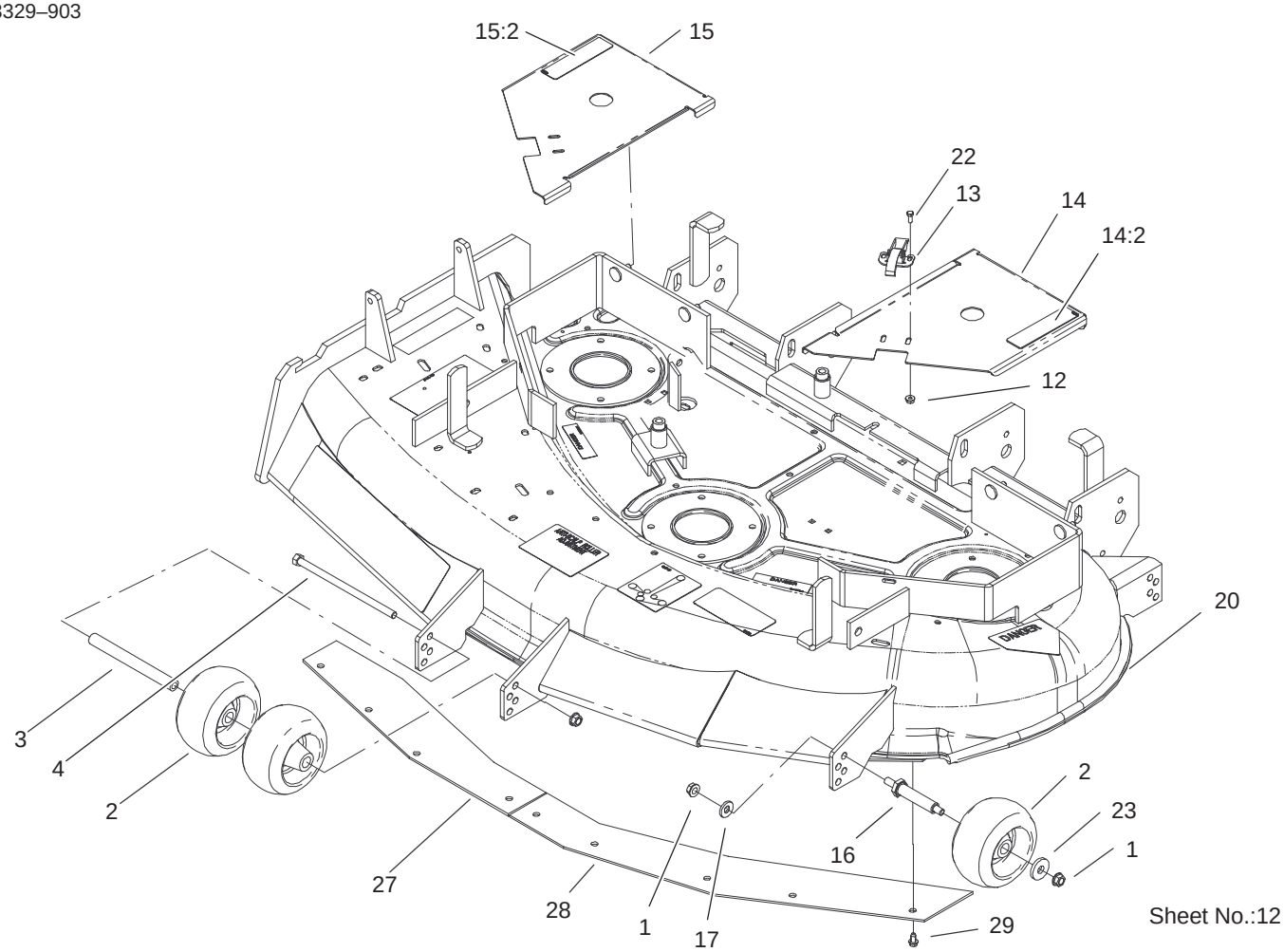
Sheet No.:10

Engine and Clutch Assembly

Ref. No.	Part No.	Qty.	Description
1	3212–10	1	Screw–HH
2	1–603610	2	Washer–Spring
3	103–0690	1	Clutch
4	1–653035	1	Sheave W/Hub
5	1–807259	1	Key
7	33114–025	4	Screw–HH
8	32128–20	27	Nut–HF
9	322–3	21	Screw–HH
11	103–3078–03	1	Strap–Guard, Engine RH
12	103–3219–03	1	Guard–Rear
13	103–3164–03	1	Strap–Guard, Engine LH
14	106–9965	1	Muffler
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	103–2614	1	Spacer
25	1–633543–03	1	Strap–Clutch, Brake
26	322–22	1	Screw–HH
27	3256–3	3	Washer–Flat
32	3256–23	4	Washer–Flat
☆36		1	Engine–Kohler, Cv493s–27520

Ref. No.	Part No.	Qty.	Description
37	1–303334	2	Washer–Spring
41	103–3218–03	1	Guard–Tailpipe
46	288–10	1	Cap–Pipe
47	289–19	1	Nipple
48	322–3	2	Screw–HH
49	32128–20	2	Nut–Flange

☆ Not serviced separately

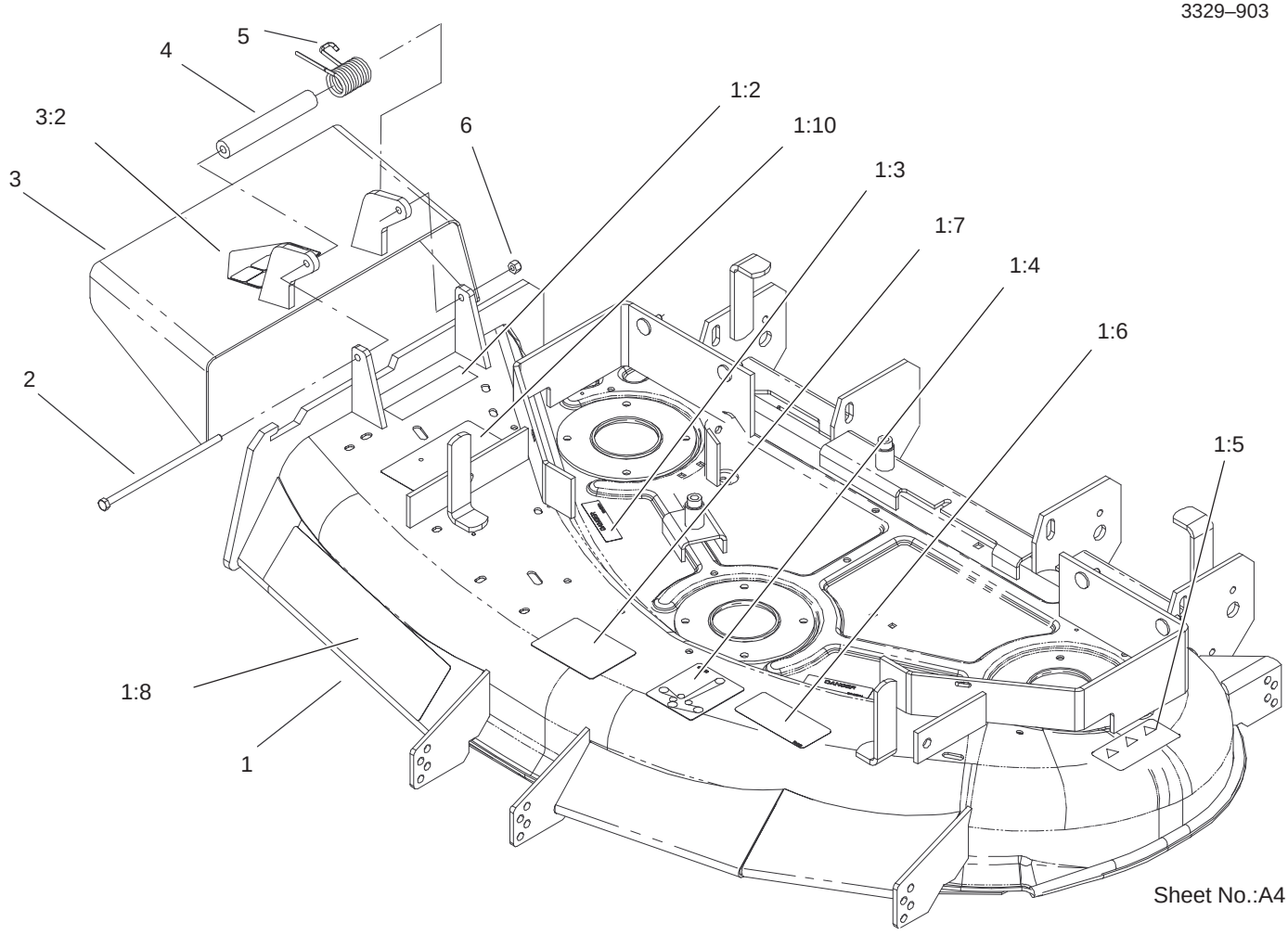


Sheet No.:12

Deck and Wheel Gage Assembly

Ref. No.	Part No.	Qty.	Description
1	3290–357	7	Nut–HHF
2	68–2730	5	Wheel–Gage
3	98–5967	1	Spacer
4	323–28	1	Screw–HH
12	32128–17	4	Nut–Lock, Flange
13	249–21	2	Clamp–Slotted
14	99–3928	1	LH Cover ASM
14:2	67–5360	1	Decal–Danger
15	99–3929	1	RH Cover ASM
15:2	67–5360	1	Decal–Danger
16	99–2842	3	Spacer
17	98–5975	3	Washer–Belleville
20	106–5884	1	Deck ASM
22	3290–321	4	Screw–HWH
23	1–373034	3	Washer
27	100–3257–03	1	Plate–Blowout, RH
28	100–3258–03	1	Plate–Blowout, LH
29	12–3270	9	Screw

Ref. No.	Part No.	Qty.	Description

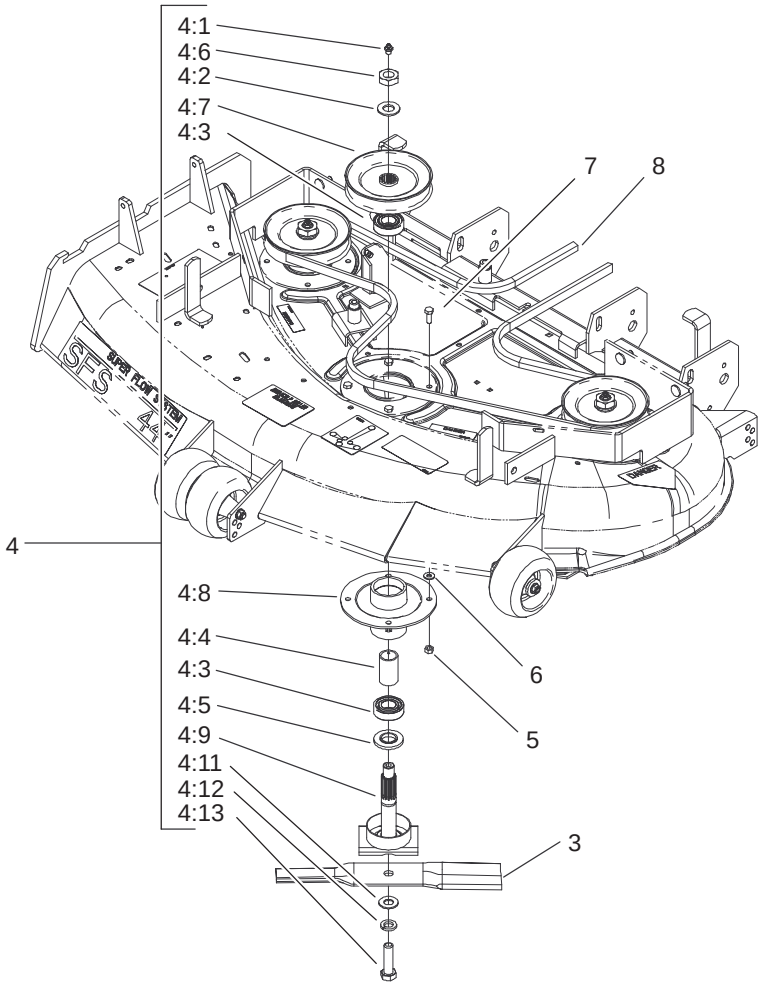


Sheet No.:A4

Deck Assembly No. 106–6565

Ref. No.	Part No.	Qty.	Description
1	106–5883	1	Deck ASM
1:2	104–8569	1	Decal–Warning
1:3	98–5954	3	Decal–Missing, Cover
1:4	99–3943	1	Decal–Routing, Belt
1:5	43–8480	1	Decal–Danger
1:6	93–7818	1	Decal–Torque, Blade Bolt
1:7	98–3798	1	Decal–Wheel, Gage
1:8	98–8028	1	Decal
1:10	66–1340	1	Decal–Danger
2	322–50	1	Screw–HH
3	105–4625	1	Deflector ASM
3:2	93–1122	1	Decal–Danger
4	105–4622	1	Spacer
5	104–8554	1	Spring–Torsion
6	3296–29	1	Nut–Lock, NI

Ref. No.	Part No.	Qty.	Description

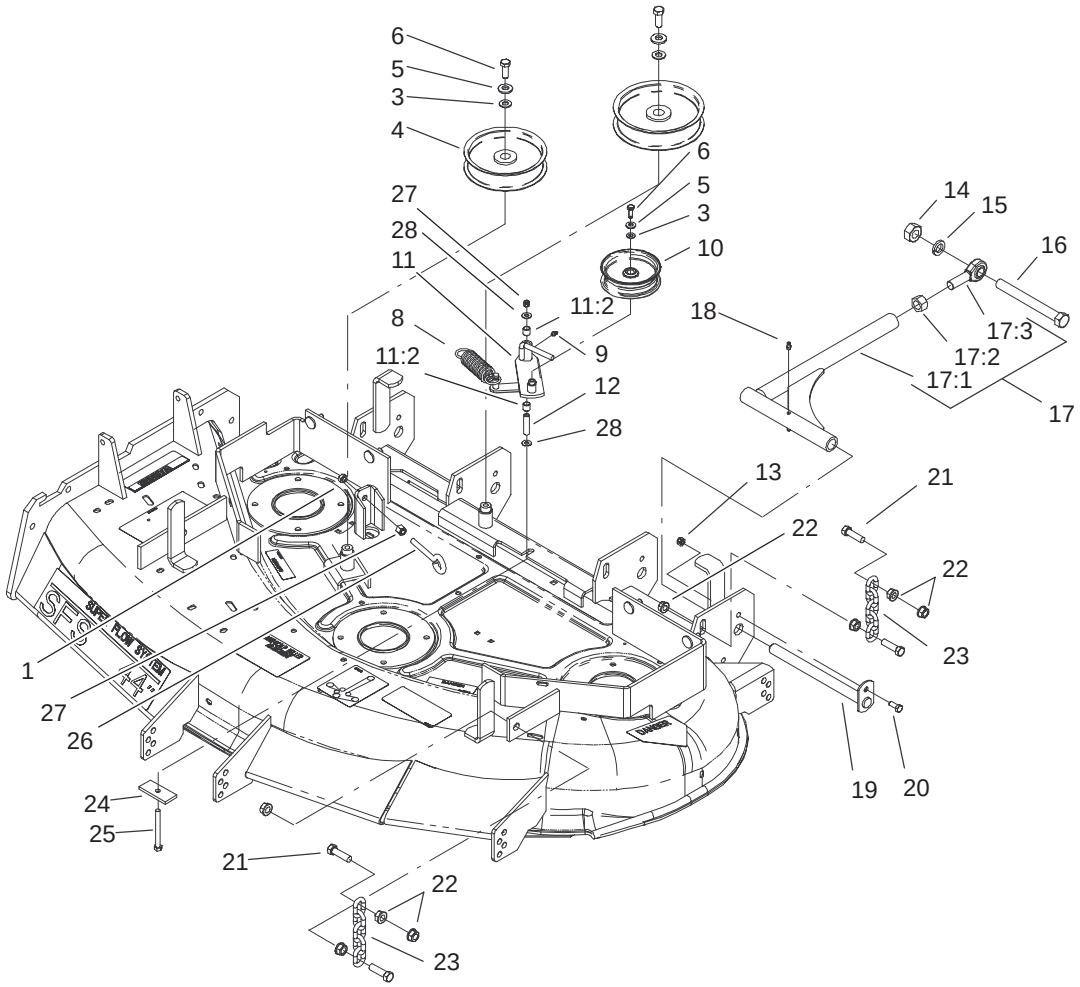


Sheet No.:13

Deck Spindle Assembly

Ref. No.	Part No.	Qty.	Description
3	54–0010	3	Blade
4	100–3977	3	Spindle Housing ASM
4:1	302–2	1	Fitting–Grease
4:2	7–4150	1	Washer
4:3	251–257	2	Bearing–Ball
4:4	67–7580	1	Spacer–Bearing
4:5	67–7570	1	Spacer–Spindle
4:6	32146–20	1	Nut–Jam
4:7	100–3975	1	Pulley And Hub ASM
4:8	67–7590	1	Housing–Spindle
4:9	100–3974	1	Spindle Shaft ASM
4:11	3256–27	1	Washer–Flat
4:12	3253–8	1	Washer–Lock
4:13	51–4060	1	Screw–Blade
5	32152–1	12	Nut–Lock, NI
6	3256–2	4	Washer–Flat
7	322–4	12	Screw–HH
8	99–4647	1	V–Belt–Drive, Deck

Ref. No.	Part No.	Qty.	Description

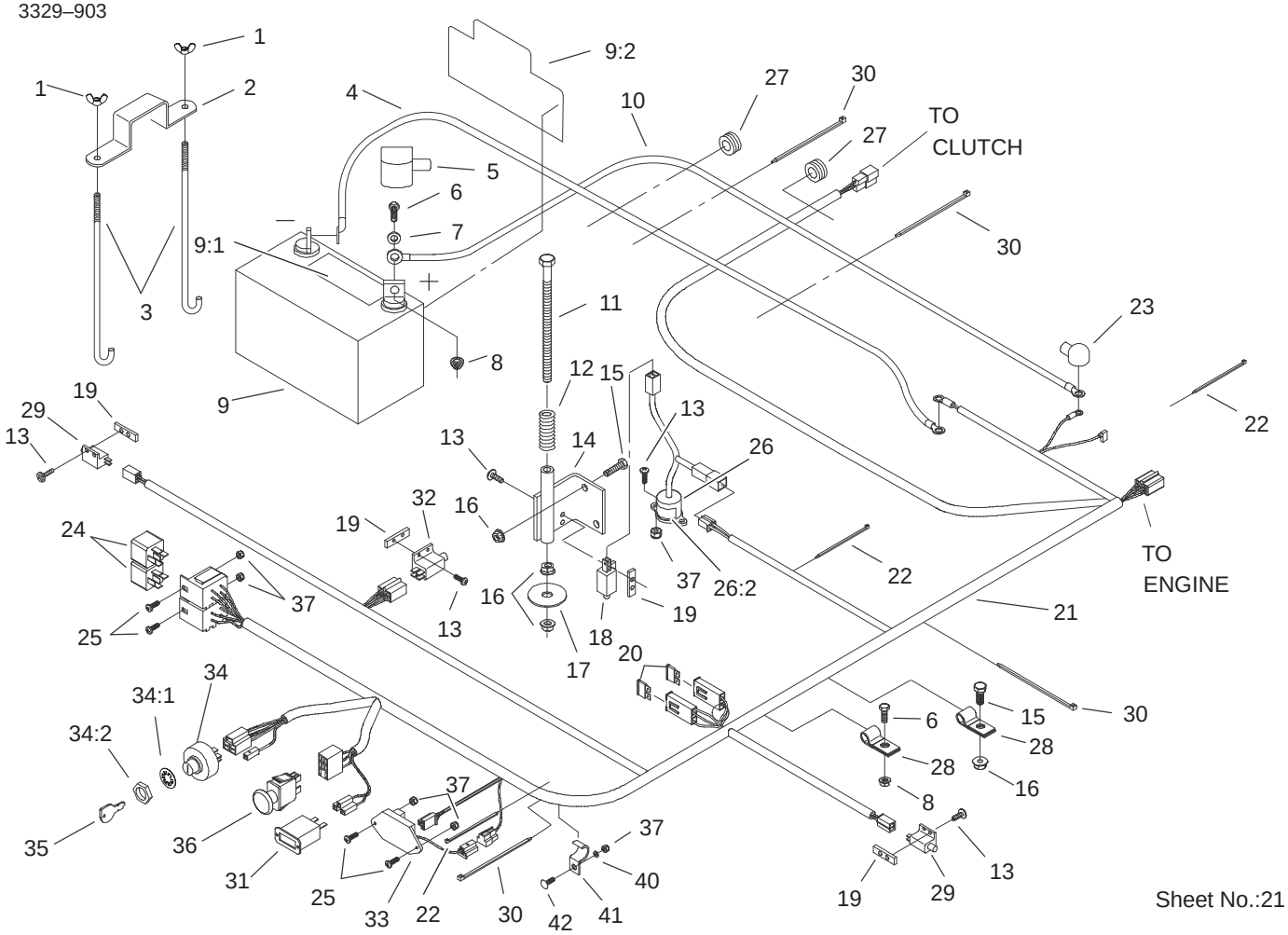


Sheet No.:16
C–3040

Idler, Pulley/Lift Strut, 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	105–6992	1	Spring
9	302–40	1	Fitting–Grease
10	99–8912	1	Pulley–Idler, Flat
11	99–8914	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
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
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

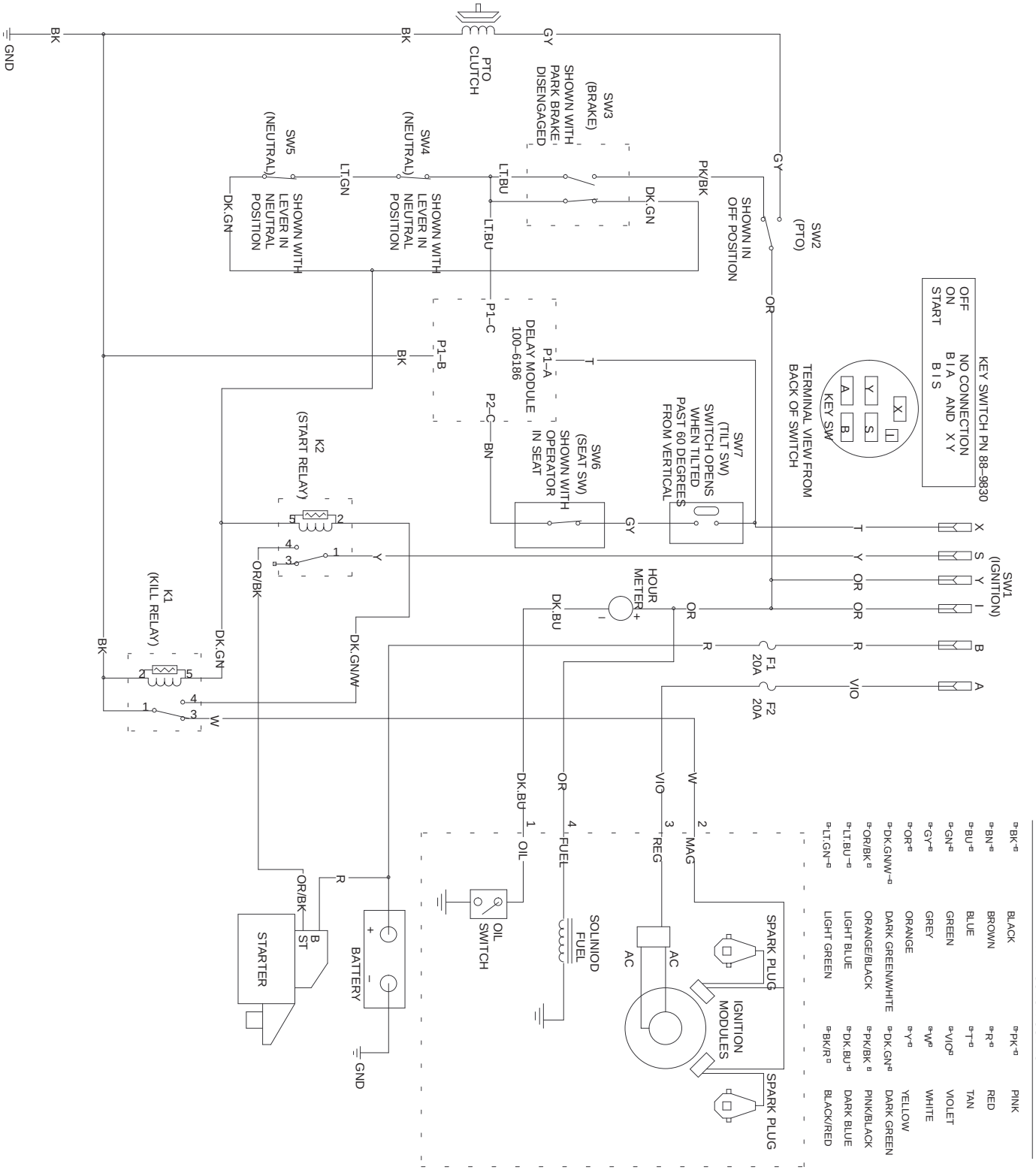


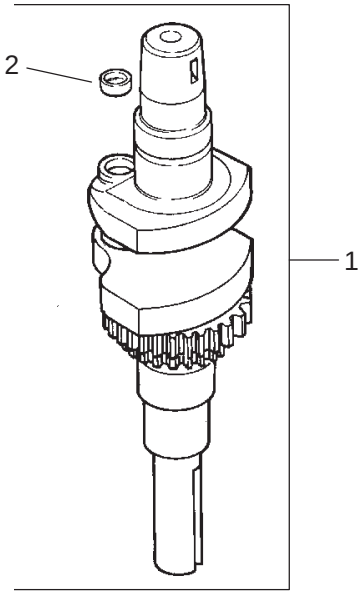
Electrical System Assembly

Ref. No.	Part No.	Qty.	Description
1	1–543792	2	Wingnut
2	1–633652–03	1	Strap–Holddown
3	1–633651	2	Bolt–Holddown
4	1–543767	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
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	106–7487	1	Harness – Wire
22	1–303287	2	Tie–Plastic

Ref. No.	Part No.	Qty.	Description
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–Tooth
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

Electrical Schematic





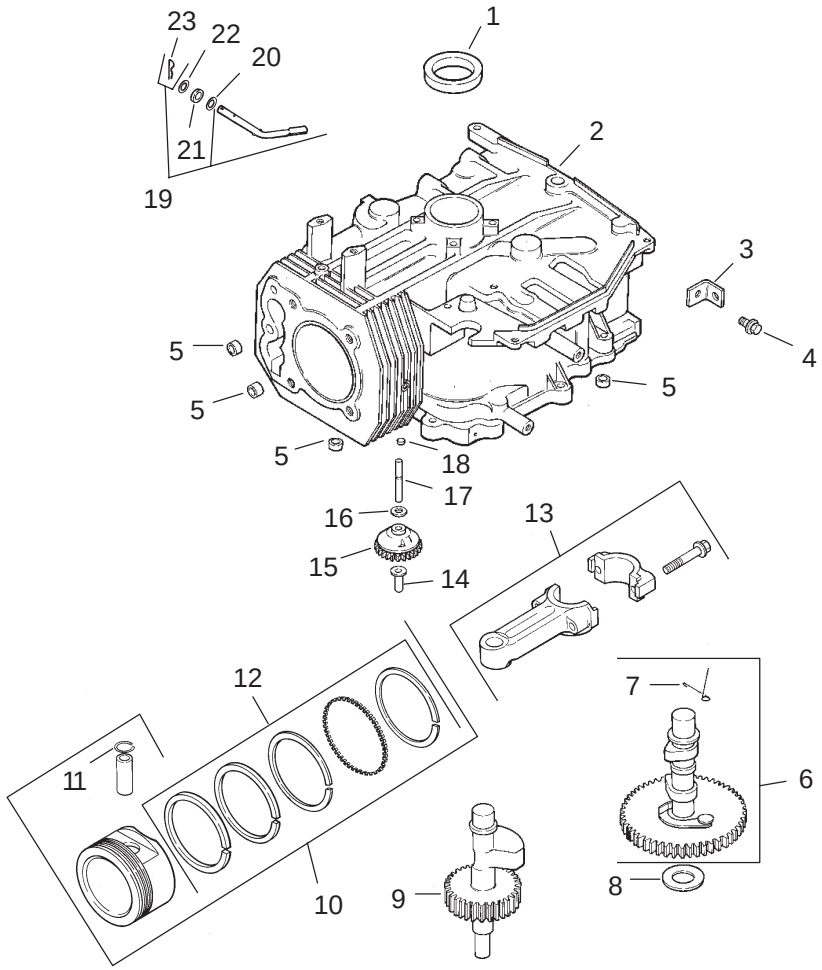
Crankshaft Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	12 014 57–S	2	Crankshaft (Includes 2)
2	25 139 27–S	1	Plug, cup

Ref. No.	Part No.	Qty.	Description

* Not illustrated

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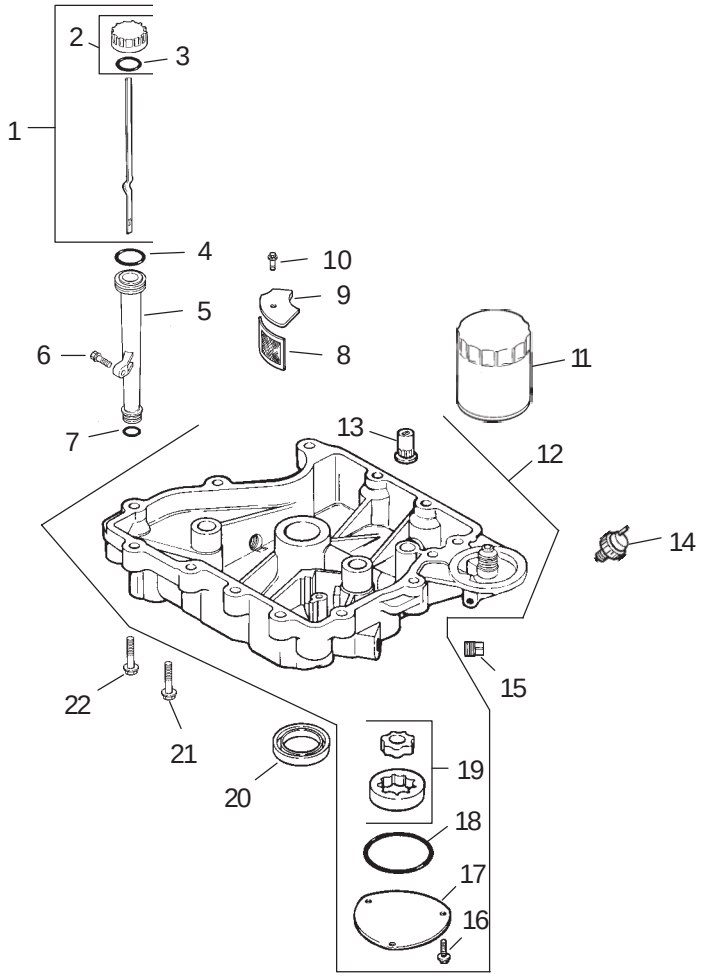
Crankcase Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	12 032 03–S	1	Seal, front oil
2		1	Crankcase (Use: Short Block 12 522 51)
3	12 445 02–S	1	Strap, lifting
4	M–839025–S	1	Screw, hex. flange M8x1.25x25
5	24 380 13–S	4	Pin, locating
6	12 010 30–S	7	Camshaft assembly (Includes 7)
7	12 089 31–S	1	Spring, actuating
8	12 422 08–S	1	Shim, camshaft – blue
*	12 422 09–S	1	Shim, camshaft – red
*	12 422 10–S	1	Shim, camshaft – yellow
*	12 422 11–S	1	Shim, camshaft – green
*	12 422 12–S	1	Shim, camshaft – gray
*	12 422 13–S	1	Shim, camshaft – black
*	12 422 07–S	1	Shim, camshaft – white
9	12 144 28–S	1	Shaft, balance
10	12 874 07–S	1	Piston w/Ring Set (Std.) (Includes 11, 12)
*	12 874 11–S	1	Piston w/Ring Set (.08)
*	12 874 08–S	1	Piston w/Ring Set (.25)

Ref. No.	Part No.	Qty.	Description
*	12 874 09–S	1	Piston w/Ring Set (.50)
11	12 018 02–S	2	Retainer, piston pin (2)
12	12 108 07–S	1	Ring Set (Std. & .08)
*	12 108 08–S	1	Ring Set (.25)
*	12 108 09–S	1	Ring Set (.50)
13	12 067 11–S	1	Connecting Rod (Std.)
*	12 067 12–S	1	Connecting Rod (.25)
14	12 380 01–S	1	Pin, governor regulating
15	12 043 05–S	1	Gear, governor
16	M–631005–S	1	Washer, plain 6 mm
17	12 144 02–S	1	Shaft, governor gear
18	52 139 09–S	1	Plug, cup
19	12 755 64–S	1	Kit, governor cross shaft w/clip (Incl. 23)
20	X–25–102–S	1	Washer, plain 1/4
21	12 032 01–S	1	Seal, governor cross shaft
22	M–631015–S	1	Washer, plain 6 mm
23	12 154 05–S	1	Clip, hitch pin

* Not illustrated

Obtain parts from your local Kohler dealer



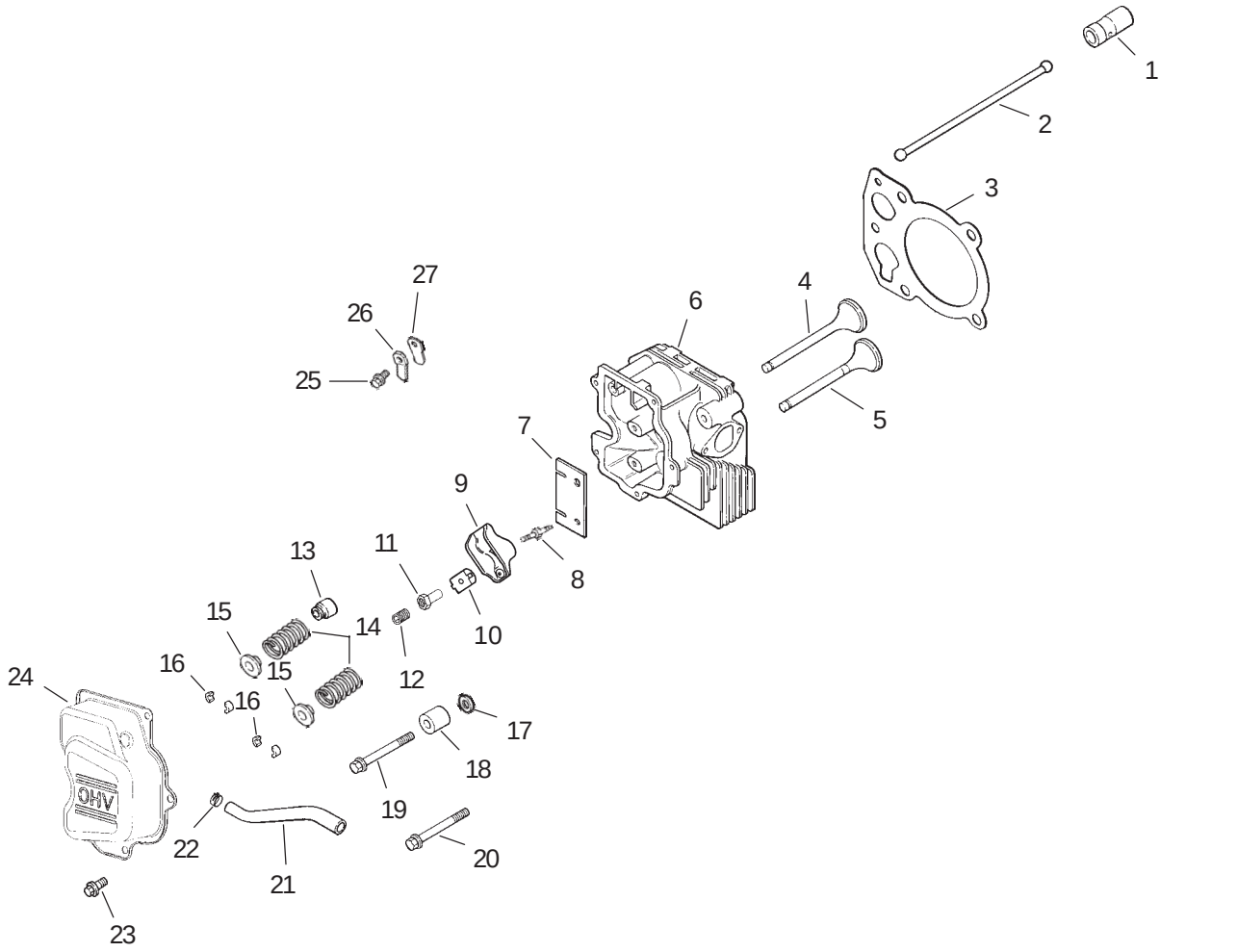
Oil Pan and Lubrication Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	12 038 01–S	1	Dipstick (Includes 2, 3)
2	25 755 13–S	1	Kit, oil fill cap (Incl. 3)
3	25 153 02–S	1	O–Ring, oil fill cap
4	12 153 02–S	1	O–Ring, upper oil fill tube
5	12 123 04–S	1	Tube, oil fill
6	M–545020–S	1	Screw, hex. flange M5x0.8x20
7	12 153 01–S	1	O–Ring, lower oil fill tube
8	25 162 07–S	1	Screen, oil pickup
9	12 096 03–S	1	Cover, oil pickup screen
10	M–545016–S	1	Screw, hex. flange M5x0.8x16
11	52 050 02–S	1	Filter, oil
12	12 199 50–S	1	Pan assembly, oil (Includes 13,16–19)
13	25 462 09–S	1	Valve, oil pressure relief
14	24 099 03–S	1	Switch, pressure
15	25 139 57–S	1	Plug, sq. hd. solid 3/8
16	M–545016–S	1	Screw, hex. flange M5x0.8x16

Ref. No.	Part No.	Qty.	Description
17	12 096 34–S	1	Cover, oil pump
18	12 153 06–S	1	O–Ring, oil pump cover
19	12 393 01–S	1	Pump assembly, oil
20	12 032 03–S	1	Seal, oil (P.T.O. end)
21	24 086 16–S	11	Screw, hex. flange M8x1.25x45 (11)
22	24 086 17–S	1	Screw, hex. flange M8x1.25x45

* Not illustrated

Obtain parts from your local Kohler dealer



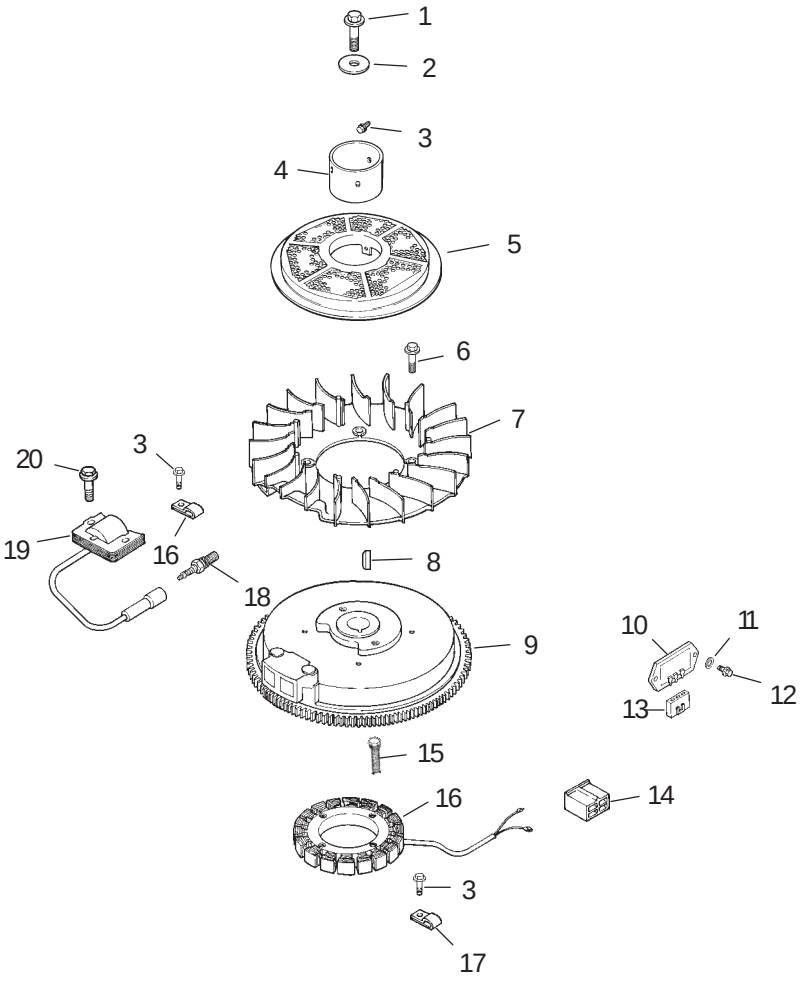
Head / Valve / Breather Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	25 351 01–S	2	Lifter, valve
2	12 411 03–S	2	Rod, push
3	12 041 10–S	1	Gasket, cylinder head
4	12 017 01–S	1	Valve, intake (Std.)
*	12 017 02–S	1	Valve, intake (.25)
5	12 016 01–S	1	Valve, exhaust (Std.)
*	12 016 02–S	1	Valve, exhaust (.25)
6	12 318 36–S	1	Head, cylinder
7	12 146 22–S	1	Plate, guide
8	25 072 12–S	2	Stud, rocker
9	25 186 01–S	2	Arm, rocker
10	12 599 03–S	2	Pivot, rocker arm
11	12 112 16–S	2	Nut, hex.
12	25 086 112–S	2	Screw, set (AVT)
13	66 032 05–S	2	Seal, valve stem
14	12 089 34–S	2	Spring, valve
15	12 173 01–S	2	Cap, valve spring
16	12 755 03–S	2	Kit, retainer
17	12 468 05–S	1	Washer, plain 13/32
18	12 112 16–S	1	Spacer
19	M–645025–S	2	Screw, hex. flange M6x1.0x25
20	M–645016–S	1	Screw, hex. flange M6x1.0x16

Ref. No.	Part No.	Qty.	Description
21	12 326 18–S	1	Hose, breather
22	25 237 14–S	2	Clamp, hose
23	20 086 02–S	4	Screw, hex. flange M10x1.5x81
24	12 096 47–S	1	Cover, valve
25	M–545010–S	1	Screw, hex. flange M5x0.8x10
26	12 018 01–S	1	Retainer, breather reed
27	12 402 02–S	1	Reed, breather
*	12 041 01–S	2	Gasket, carburetor
*	12 041 02–S	1	Gasket, air cleaner base
*	12 041 03–S	1	Gasket, exhaust manifold

* Not illustrated

Obtain parts from your local Kohler dealer

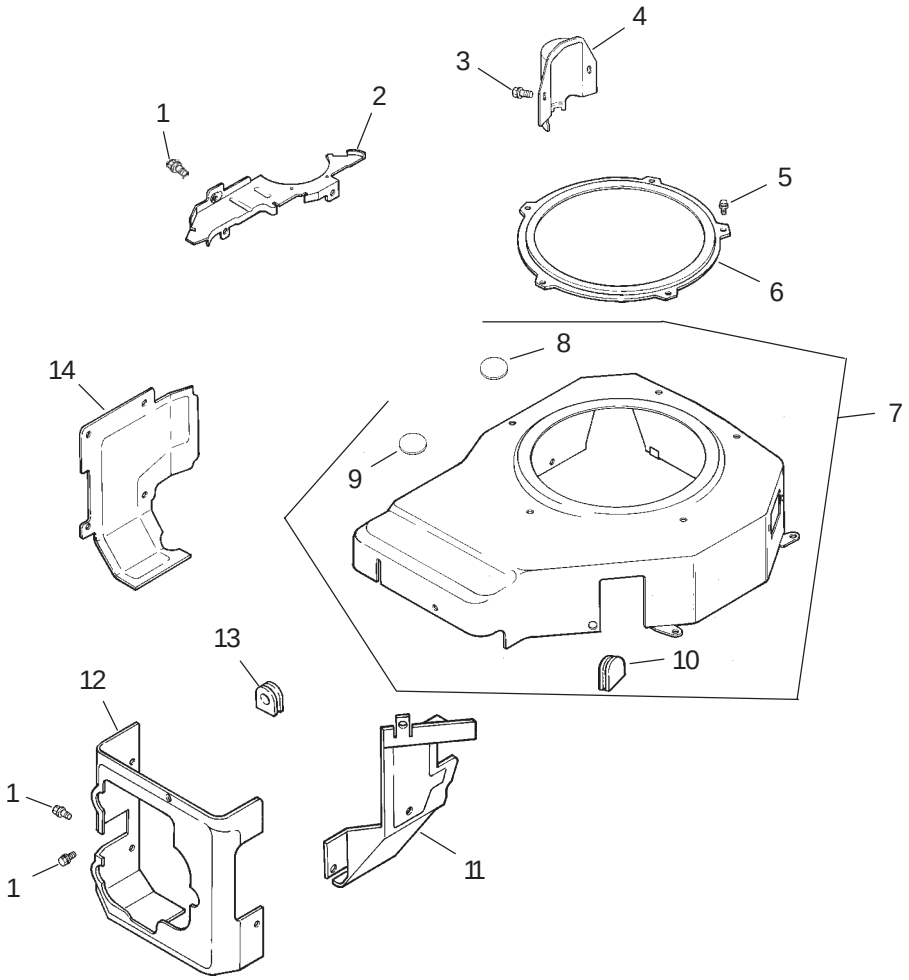


Ignition / Electrical Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	12 086 14–S	1	Screw, hex. flange M10x1.5x46
2	12 468 03–S	1	Washer, plain 3/8
3	M–545010–S	5	Screw, hex. flange M5x0.8x10
4	12 109 03–S	1	Cup, screen mounting
5	12 162 09–S	1	Screen, grass
6	25 086 47–S	4	Bolt, shoulder M6x1.0x16
7	12 157 03–S	1	Fan
8	X–42–15–S	1	Key
9	12 025 53–S	1	Flywheel
10	41 403 09–S	1	Rectifier–regulator
11	X–22–11–S	1	Washer, lock 1/4
12	M–639016–S	2	Screw, hex. flange M6x1.0x16
13	236602–S	1	Connector, rectifier–regulator (3 contact)
14	41 155 02–S	1	Connector (5 contact)
15	M–548025–S	2	Screw, hex. cap M5x0.8x25
16	237878–S	1	Kit, stator (Includes Terminal 25 452 01–S)
17	X–728–1–S	2	Clip
18	12 132 06–S	1	Spark Plug
19	12 584 04–S	1	Module, ignition
20	M–545020–S	2	Screw, hex. flange M5x0.8x20
*	25 452 01–S	1	Terminal
*	X–25–5–S	1	Washer, steel
*	25 518 05–S	1	Lead, black, rectifier to connector (5 – 14 gauge – uninsulated push on tab terminals)
*	12 518 01–S	1	Lead, white, ground to kill (19 – 18 gauge – fully insulated push on tab and uninsulated push on tab terminals)
*	24 518 12–S	1	Lead, black (6 – 12 gauge – insulated grip barrel eyelet terminals)

* Not illustrated

Obtain parts from your local Kohler dealer



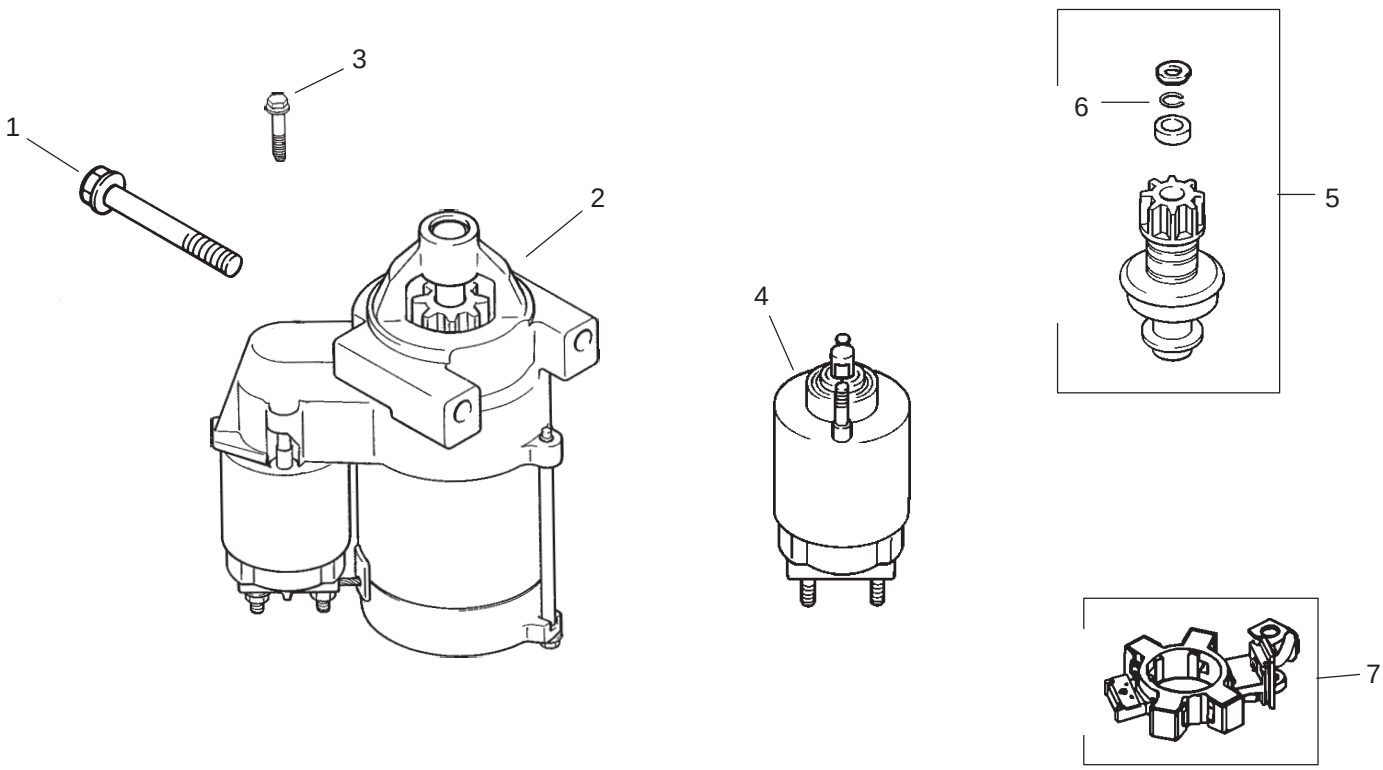
Blower Housing and Baffle Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	M–545010–S	9	Screw, hex. flange M5x0.8x10
2	12 146 07–S	1	Plate, blower housing
3	M–550010–S	11	Screw, hex. flange M5x0.8x10
4	12 096 33–S	1	Cover, starter
5	12 314 07–S	1	Guard, stylized
6	12 314 10–S	1	Guard, grass screen
7	12 027 71–S	1	Housing, blower (Includes 8–10)
8	25 139 17–S	1	Plug, button 1/2
9	25 139 16–S	1	Plug, button 9/16
10	12 313 05–S	2	Grommet
11	12 063 18–S	1	Baffle, intake side
12	12 063 20–S	1	Baffle, cylinder head
13	12 313 03–S	1	Grommet, spark plug
14	12 063 19–S	1	Baffle, cylinder
*	25 113 24–S	1	Decal, grass screen
*	24 113 94–S	1	Decal, 18 HP

Ref. No.	Part No.	Qty.	Description

* Not illustrated

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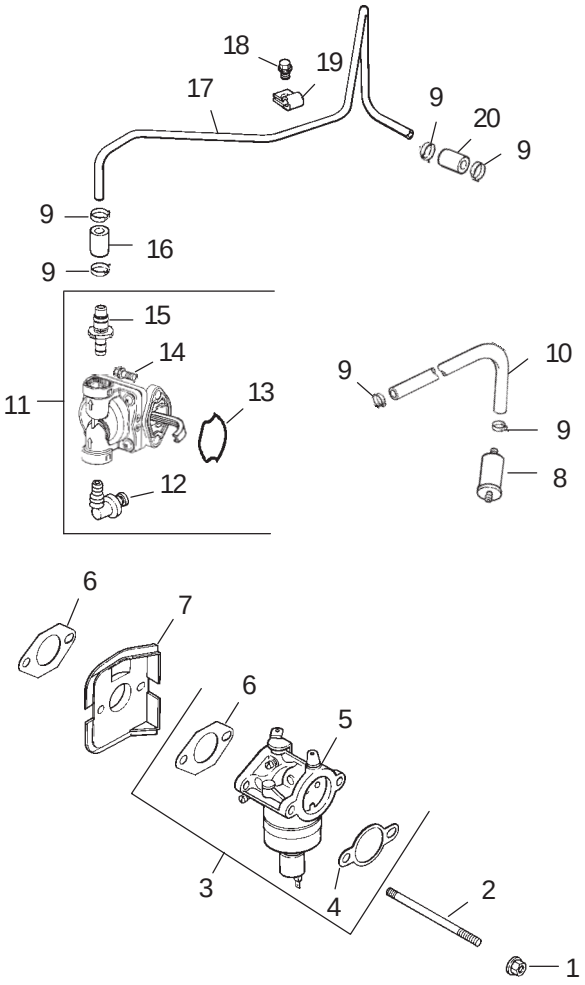
Starter System Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	M–839080–S	2	Screw, hex. flange M8x1.25x80
2	25 098 09–S	1	Starter assembly (Includes 3–8)
3	25 086 113–S	3	Screw, external torx hd.
4	25 435 05–S	1	Kit, solenoid (Incl. 3)
5	25 755 33–S	1	Kit, pinion drive (Incl. 6)
6	25 141 05–S	1	Ring
7	25 221 01–S	1	Kit, brush

Ref. No.	Part No.	Qty.	Description

* Not illustrated

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Fuel System Assembly
Kohler CV493S–27520

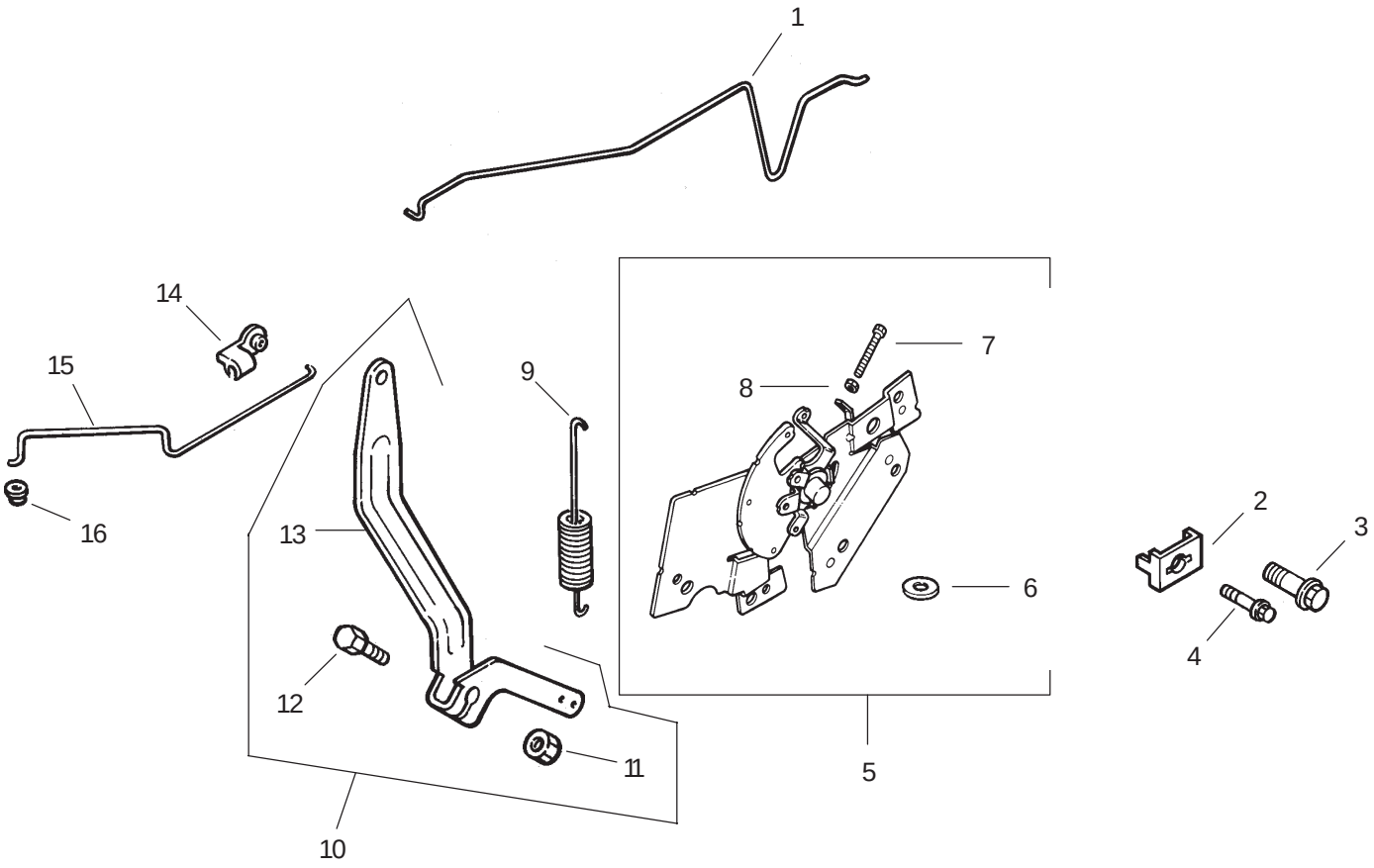
Ref. No.	Part No.	Qty.	Description
1	M–641060–S	2	Nut, hex. flange
2	M–629116–S	2	Stud M6x1.0x116
3	12 853 147–S	1	Kit, carburetor w/gaskets (Includes 4, 5, 6 qty. 1, Tie 12 454 03–S, and Terminal 25 452 20–S)
4	12 041 02–S	1	Gasket, air cleaner
5	12 053 147	1	Carburetor assembly (For information only not available separately) (Service with kits: 12 757 02–S, 12 757 03–S, 12 757 33–S, 12 757 36–S, & 12 757 37–S)
6	12 041 01–S	2	Gasket, carburetor
7	12 265 06–S	1	Deflector, heat
8	25 050 08–S	1	Filter, fuel
9	25 237 14–S	6	Clamp, fuel line
10	24 393 11–S	1	Line, fuel
11	12 559 02–S	1	Kit, fuel pump (Includes 12–15)

Ref. No.	Part No.	Qty.	Description
12	12 294 13–S	1	Fitting, connector 90
13	25 153 04–S	1	O–Ring, fuel pump
14	M–645020–S	2	Screw, hex. flange
15	24 294 09–S	1	Fitting, connector – straight
16	12 353 01–S	1	Line, fuel 1–1/4
17	12 123 19–S	1	Line, fuel – metal
18	M–545010–S	1	Screw, hex. flange M5x0.8x10
19	12 154 01–S	1	Clamp, fuel line
20	41 353 18–S	1	Line fuel 2–1/2
*	12 757 02–S	1	Kit, float
*	12 757 03–S	1	Kit, carburetor repair
*	12 757 33–S	1	Kit, solenoid repair
*	12 757 36–S	1	Kit, throttle shaft
*	12 757 37–S	1	Kit, bowl replacement
		1	Lead, red (18 gauge, – 20 insulated socket and uninsulated push on tab terminals)
*	12 454 03–S	3	Tie, wire
☆*	M–561010–S	1	Screw, thread forming M5x0.8x10
☆*	X–22–11–S	1	Washer, lock 1/4

* Not illustrated

☆ Used to attach carburetor ground lead to carburetor baffle.

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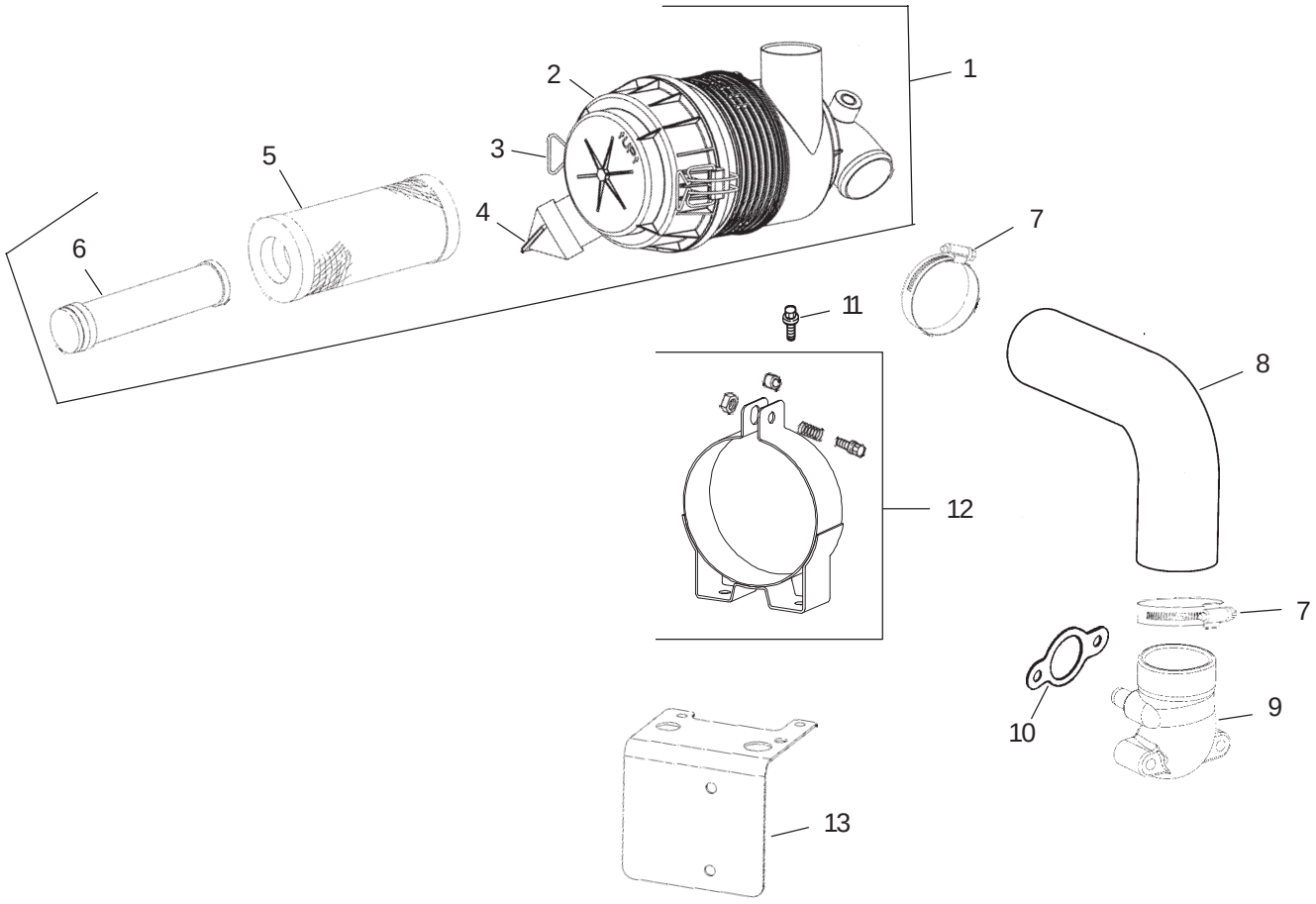
Engine Controls Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	12 079 11–S	1	Linkage, choke
2	12 237 01–S	2	Clamp, cable
3	M–545016–S	2	Screw, hex. flange M5x0.8x16
4	M–664020–S	2	Screw, lobed socket M6x1.0x20
5	12 536 02–S	1	Control, speed assembly (Incl. 6–8)
6	230293–S	1	Spacer, shim
7	M–401030–S	1	Screw, hex. flange
8	M–446030–S	1	Nut, hex.
9	52 089 07–S	1	Spring, governor
10	12 755 83–S	1	Kit, governor lever (Includes 11–13)
11	12 100 07–S	1	Nut, hex. flange M6x1.0
12	52 211 04–S	1	Screw, hex. flange M6x1.0x25
13	12 090 28–S	1	Lever, governor
14	25 158 11–S	1	Bushing, linkage retaining
15	12 079 10–S	1	Linkage, throttle
16	25 158 08–S	1	Bushing, linkage retaining

Ref. No.	Part No.	Qty.	Description

* Not illustrated

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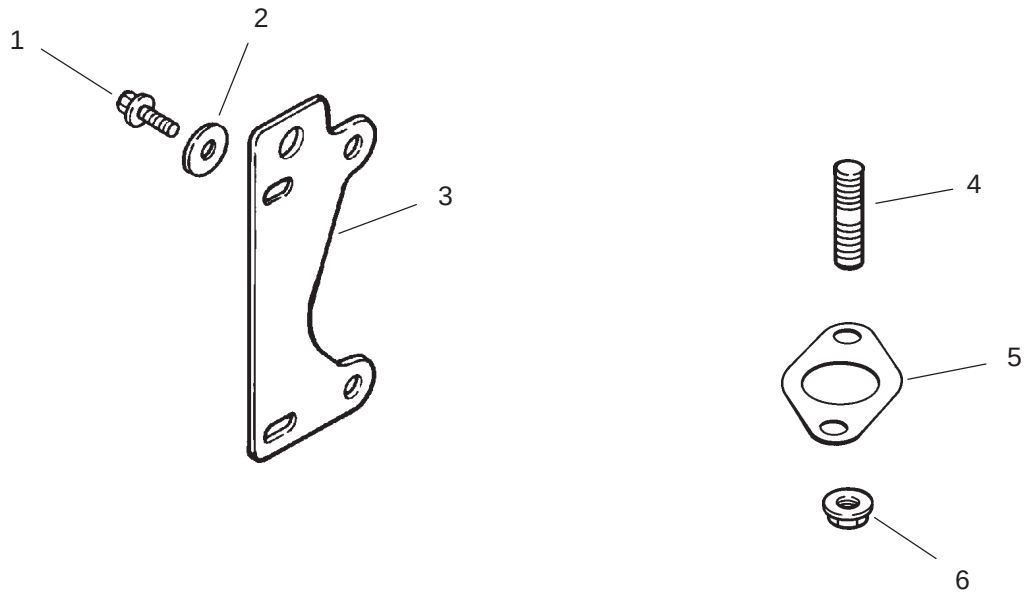
Air Intake / Filtration Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	25 048 06–S	1	Cleaner assembly, air (Includes 2–6)
2	25 096 05–S	1	Cover assembly, plastic air cleaner
3	25 154 05–S	2	Clip
4	24 462 07–S	1	Valve, dust ejector
5	25 083 02–S	1	Element, air – primary
6	25 083 03–S	1	Element, air – safety
7	24 237 02–S	2	Clamp, hose
8	12 326 23–S	1	Hose, air cleaner
9	12 054 06–S	1	Elbow assembly
10	12 041 02–S	1	Gasket, air cleaner
11	M–851016–S	2	Screw, hex. flange
12	12 126 94–S	1	Bracket assembly, air cleaner support
13	25 126 01–S	1	Bracket, air cleaner
*	12 158 03–S	1	Bushing, ignition wire
*	12 113 04–S	1	Decal, air cleaner

Ref. No.	Part No.	Qty.	Description

* Not illustrated

Obtain parts from your local Kohler dealer



Exhaust Assembly
Kohler CV493S–27520

Ref. No.	Part No.	Qty.	Description
1	M–645025–S	2	Screw, hex. flange M6x1.0x25
2	12 112 20–S	2	Spacer
3	12 126 71–S	1	Bracket, muffler
4	25 072 04–S	2	Stud M8x1.25x33
5	12 041 03–S	1	Gasket, exhaust manifold
6	M–841080–S	2	Nut, hex. flange M8x1.25
*	12 522 51	1	Short Block
*	12 755 93–S	1	Gasket Set

Ref. No.	Part No.	Qty.	Description

* Not illustrated

Obtain parts from your local Kohler dealer

Maintenance Record

Date								

Maintenance Record

Date								

Maintenance Record

Date								


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