Form No. 3324–972

Z150

Z–Master® with 52” Side Discharge Mower

Model No. 74178—210000001 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.

© The TORO Company — 2000
All Rights Reserved

Contents

Description	Page
Front Frame Assembly	4
Height of Cut Handle and Plates	6
Main Frame	7
Fuel System Assembly	8
Parking Brake System Assembly	9
Motion Control System Assembly	10
Hydraulic System Assembly	11
Pump, Idler and Belt Assembly	12
Engine and Clutch Assembly	13
Electrical System Assembly	14
52” Deck Assembly	15
52” Deck Spindle Assembly	16
Idler, Pulley/Lift Strut Chains Assembly	17
Crankshaft Assembly	18
Crankcase Assembly	19
Head/Valve/Breather Assembly	20
Ignition/Electrical Assembly	22
Blower Housing & Baffles Assembly	24
Starting System Assembly	26
Oil Pan/Lubrication Assembly	28
Fuel System Assembly	29
Engine Controls Assembly	31
Air Intake Assembly	32
Exhaust Assembly	33

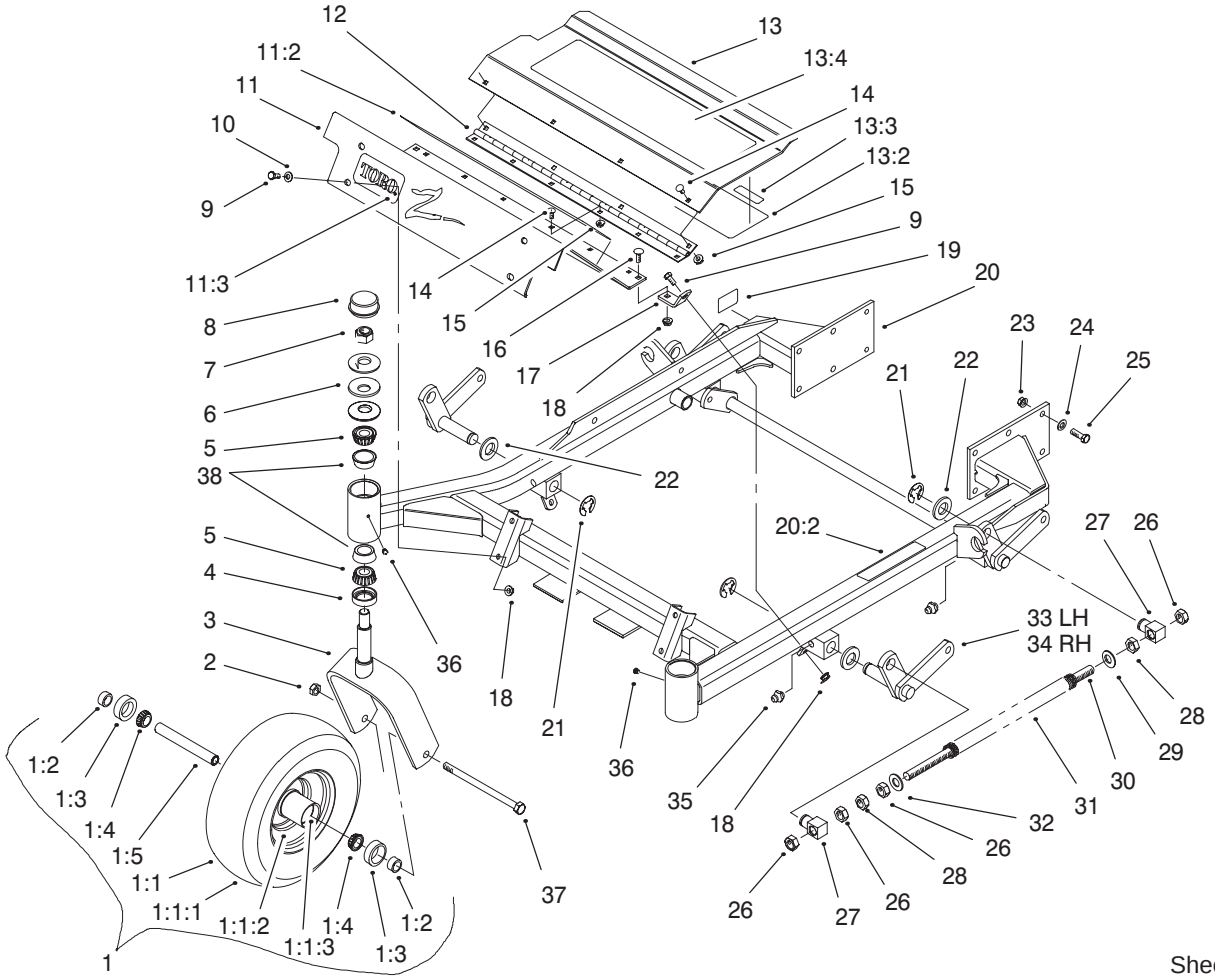
Accessories

Description	Model / Part No.
Recycler Kit	59225
Bahaia Mulch Kit	59227
High Sail Blades (3 required for improved bagging)	56–2390
Bagging System	79460
Grass Gobbler	30131
Striping Kit	30121
High Suspension Seat	74210
High Shield Kit	99–8922
Hitch Kit	99–8924

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
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

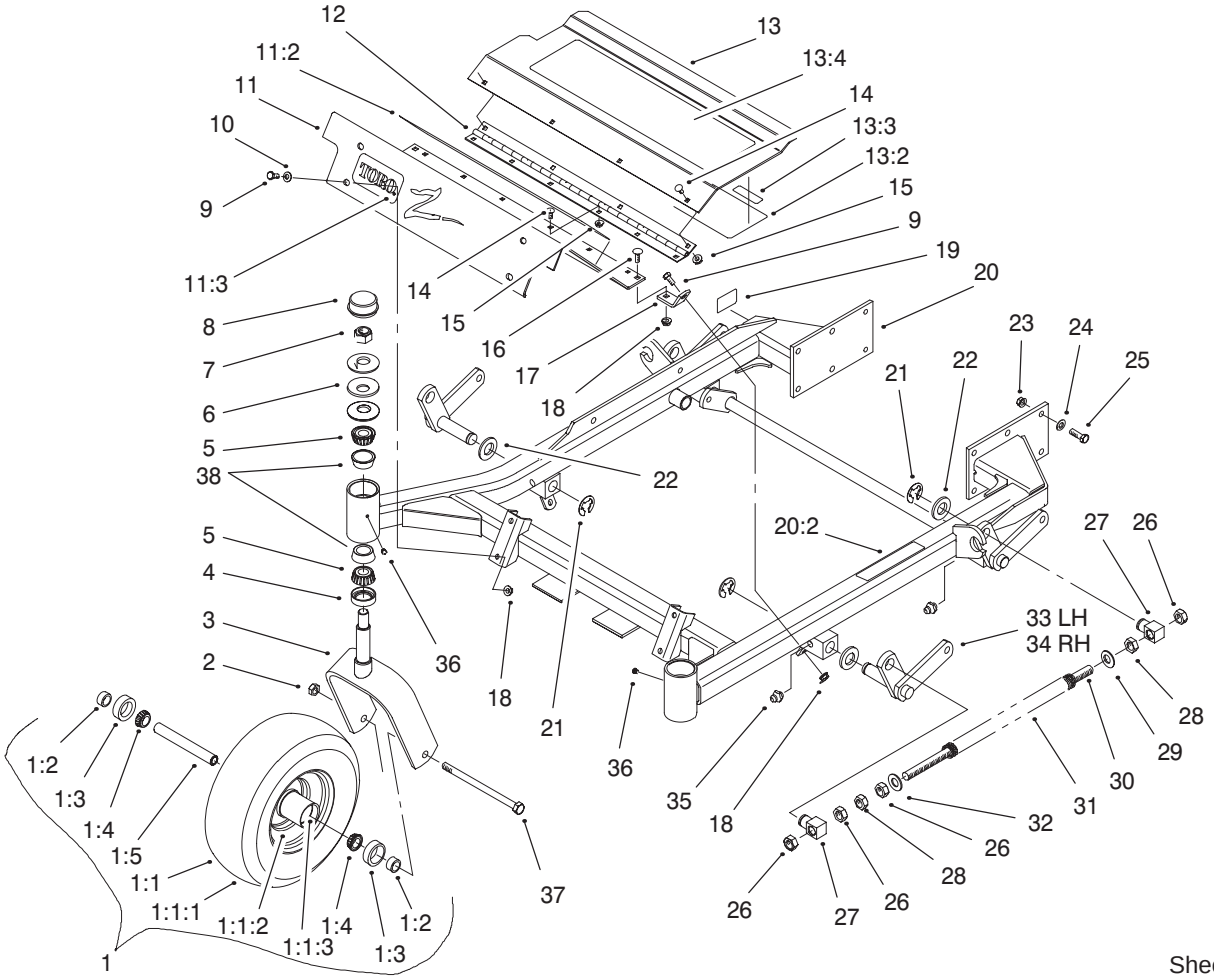


Sheet No.:2

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, Tapered
1:5	1–633579	1	Spacer,Front Caster
2	3296–45	2	Nut–Lock, NI
3	1–632511–01	2	Caster
4	1–543511	2	Seal–Grease
5	254–94	4	Bearing–Taper/Cone
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	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	88–1270	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–Flange, Lock
24	98–5975	12	Washer–Belleville
25	323–7	12	Screw–HH
26	3217–11	8	Nut–Hex
27	1–633441	4	Swivel–Deck Mount, Rear
28	3218–6	4	Nut–Jam
29	3256–7	2	Washer–Flat
30	1–653011	2	Rod,Deck Lift
31	1–653009	2	Spring,Compression
32	3256–27	2	Washer–Flat
33	99–3871–01	1	Lift Arm ASM – LH
34	99–3872–01	1	Lift Arm ASM – RH
35	302–19	4	Fitting–Grease
36	1–811010	2	Plug

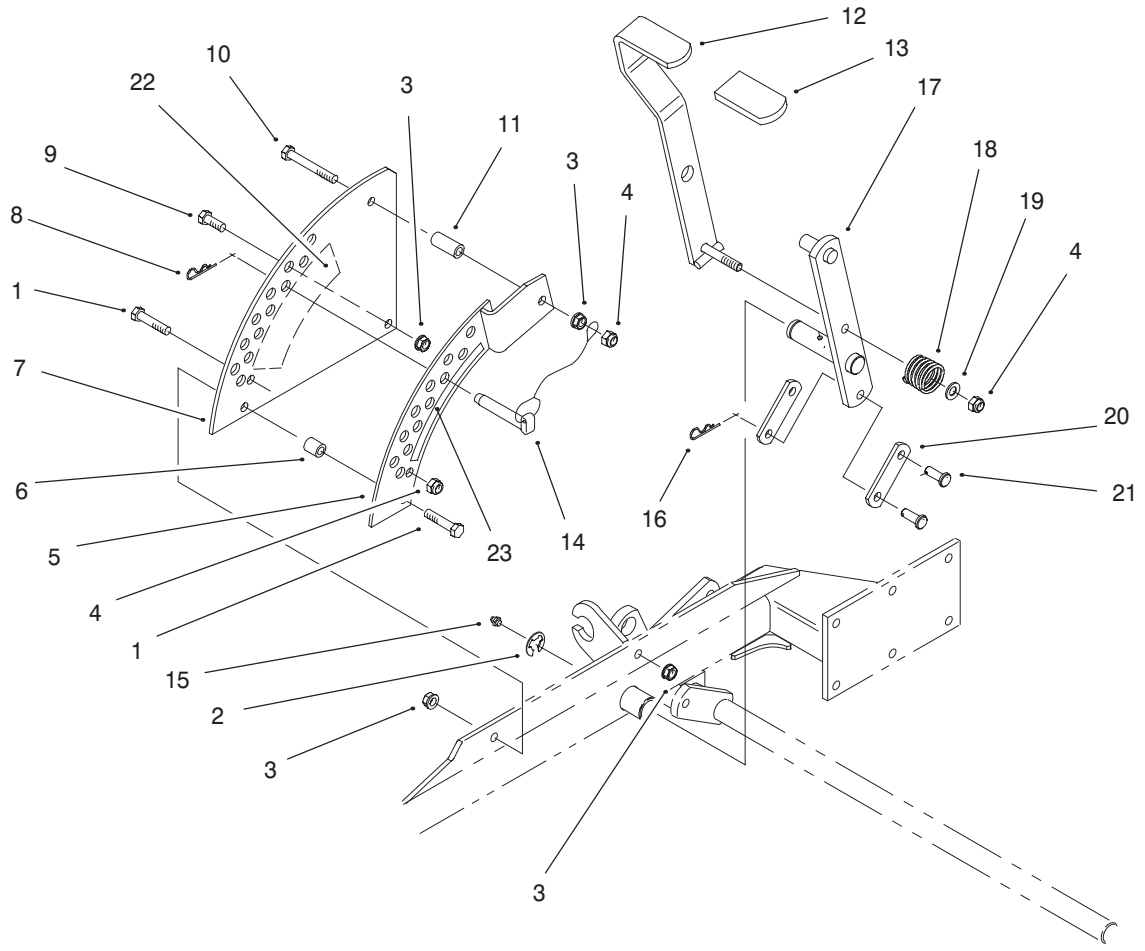


Sheet No.:2

Front Frame Assembly

Ref. No.	Part No.	Qty.	Description
37	325–36	2	Screw–HH
38	254–72	4	Bearing–Taper/Cup

Ref. No.	Part No.	Qty.	Description

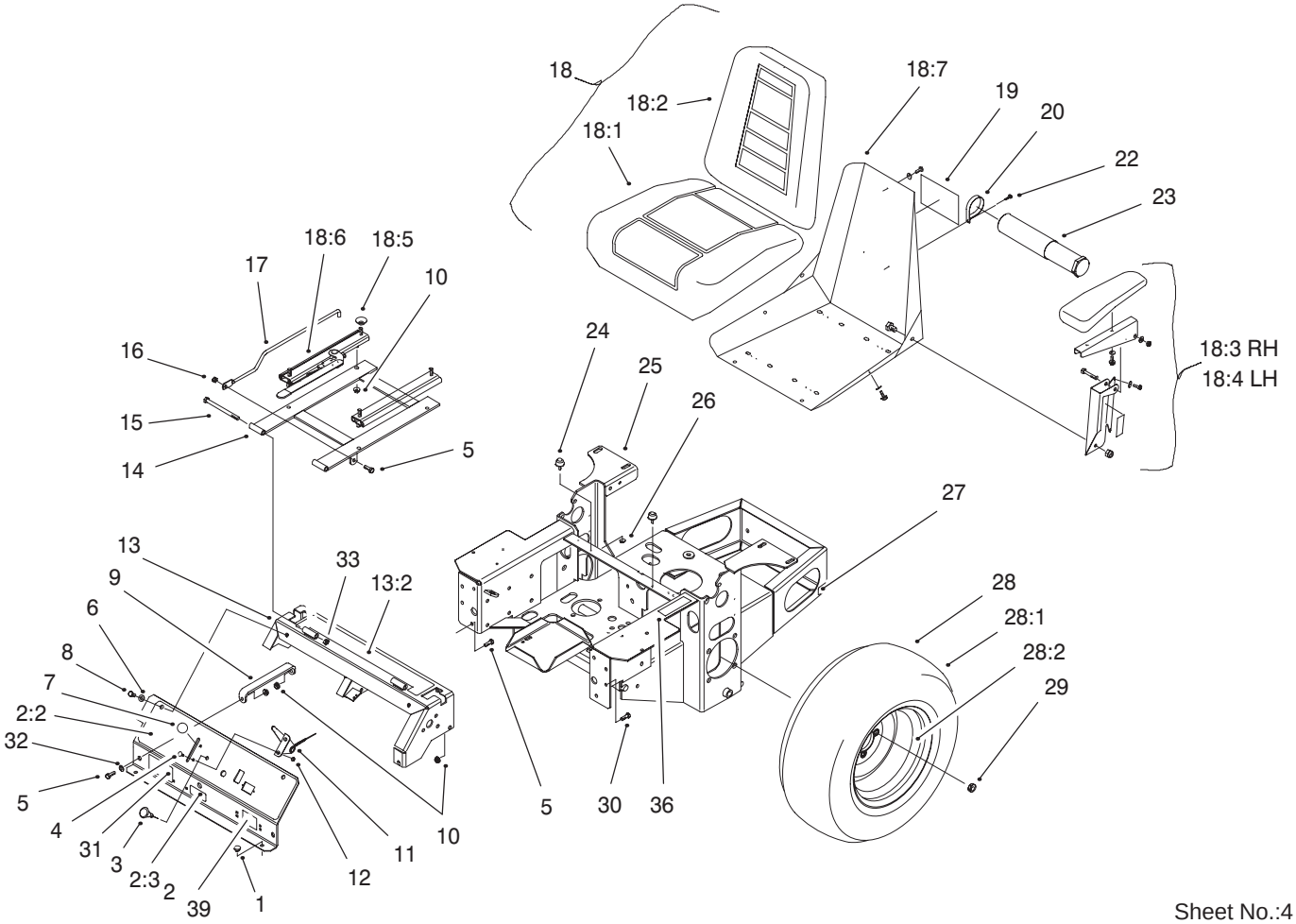


Sheet No.:3

Height of Cut Handle and Plates

Ref. No.	Part No.	Qty.	Description
1	323–9	2	Screw–HH
2	32151–103	1	Ring–Snap
3	3290–357	3	Nut–Flange, Lock
4	3296–39	3	Nut–Lock, NI
5	1–652235–01	1	Wld,Deck Lift Plate
6	1–633080	1	Bushing–Lever, Lift
7	1–653230–01	1	Plate–Deck Lift
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	1–652023–03	1	Wld,Lift Lever
13	1–633295	1	Grip–Lever, Lift
14	1–633097	1	Pin–Hitch w/Lanyard
15	302–19	1	Fitting–Grease
16	1–806003	2	Pin–Cotter, Hair
17	99–3922–03	1	Arm–Lift
18	1–633325	1	Spring–Compression
19	3256–24	1	Washer–Flat
20	1–633068	2	Arm–Lift, Deck
21	1–808284	2	Pin–Clevis
22	1–653140	1	Decal,Deck Height Outer
23	1–653147	1	Decal–Deck Height, Inner

Ref. No.	Part No.	Qty.	Description

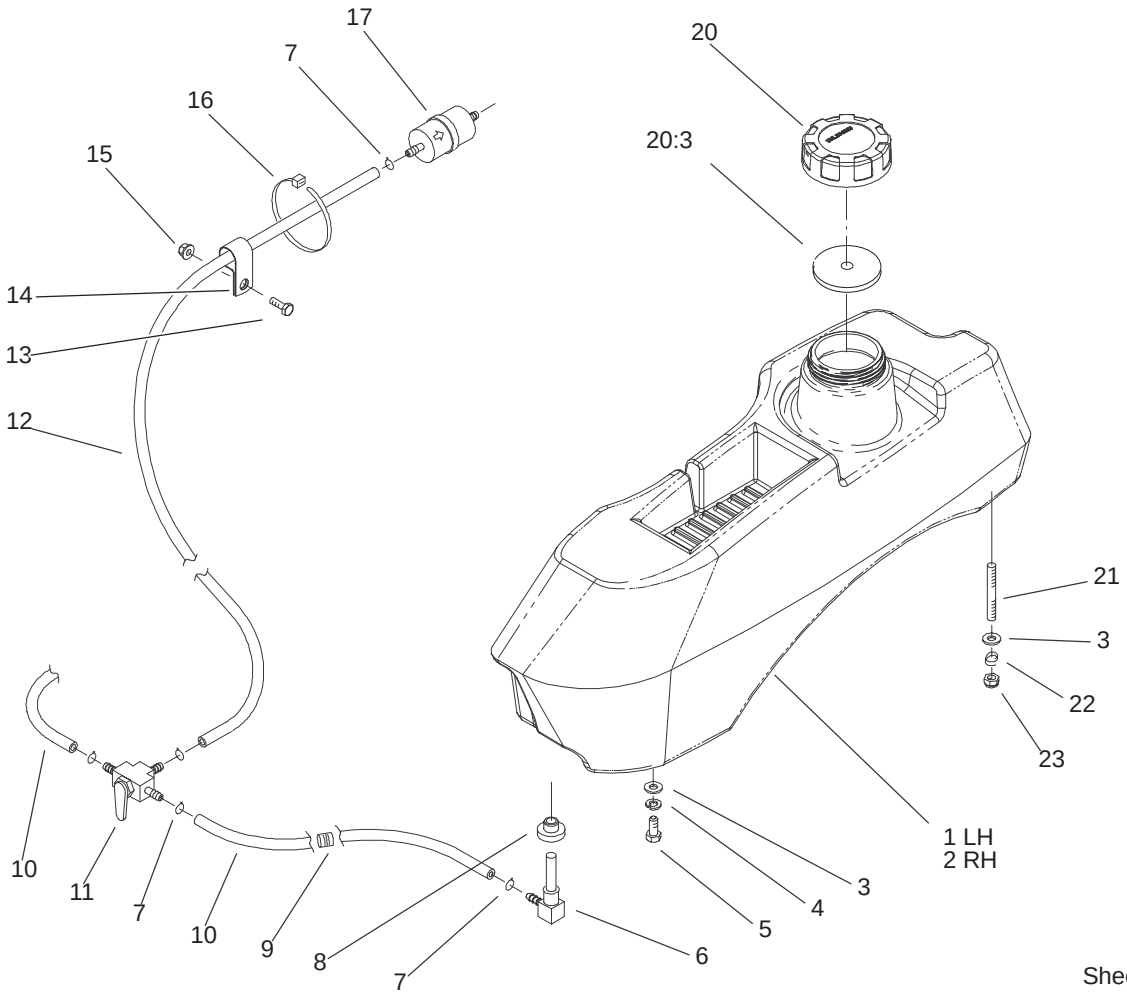


Sheet No.:4

Main Frame

Ref. No.	Part No.	Qty.	Description
1	1–513658	2	Bumper–Catcher, Grass
2	103–0724	1	Instrument Panel ASM
2:2	103–0167	1	Decal,Console
2:3	103–0262	1	Decal–Valve, Fuel
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	99–3933	1	Console ASM
13:2	103–0315	2	Decal–Console
14	1–632187–03	1	Frame – Seat
15	323–21	2	Screw–HH
16	3296–29	1	Nut–Lock
17	1–653495	1	Rod–Hold Up, 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
18:4	1–633711	1	Cushion–Armrest, LH

Ref. No.	Part No.	Qty.	Description
18:5	1–543401	4	Spacer–Track
18:6	1–643255	1	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	103–0712–03	1	Wld,Mainframe – Pntd
26	3296–42	2	Nut–Lock, NI
27	65–2690	2	Decal–Surface, Hot
28	1–653159	2	ASM,Wheel & Tire
28:1	1–653160	1	Tire
28:2	1–653161	1	Wheel, 12 X 7 *
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
36	1–603845	1	Decal,Drive Release
39	98–4387	1	Decal–Protection, Ear

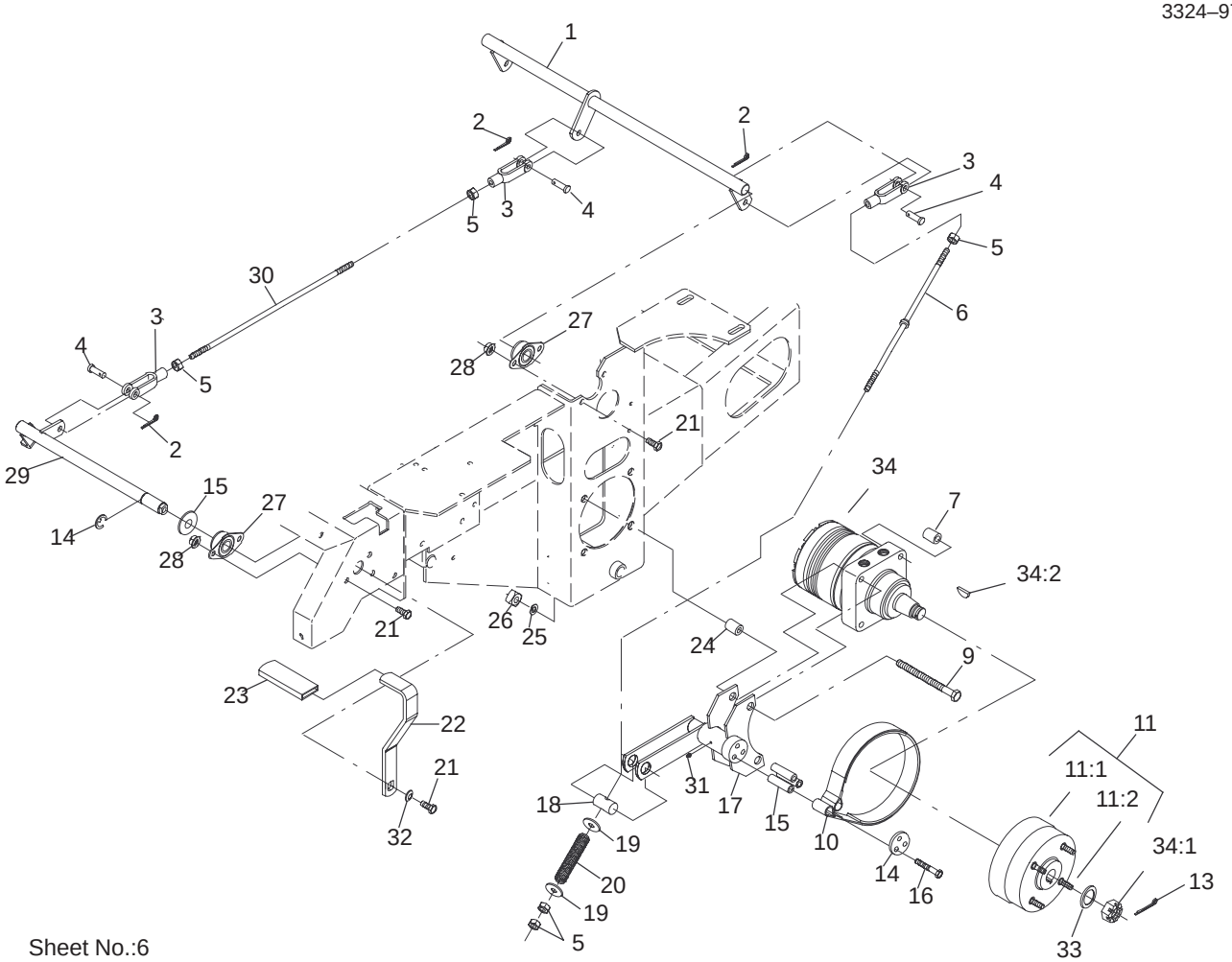


Sheet No.:5

Fuel System Assembly

Ref. No.	Part No.	Qty.	Description
1	104–5120	1	Tank – Fuel, LH
2	104–5121	1	Tank – Fuel, RH
3	3256–23	8	Washer–Flat
4	1–805005	4	Washer–Lock
5	322–3	4	Screw–HH
6	1–543277	2	Elbow–Tank, Fuel
7	1–303077	6	Clamp–Line, Fuel
8	1–513645	2	Bushing–Valve, Fuel
9	1–543296	2	Grommet,Fuel Line
10	1–543526	2	Hose,Fuel
11	1–633347	1	Valve–Fuel
12	103–0216	1	Hose–Fuel
13	321–4	1	Screw–HH
14	1–513762	1	Clip–Loom
15	3296–42	1	Nut–Lock, NI
16	1–303335	1	Tie–Plastic
17	2405002	1	Filter–Fuel
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



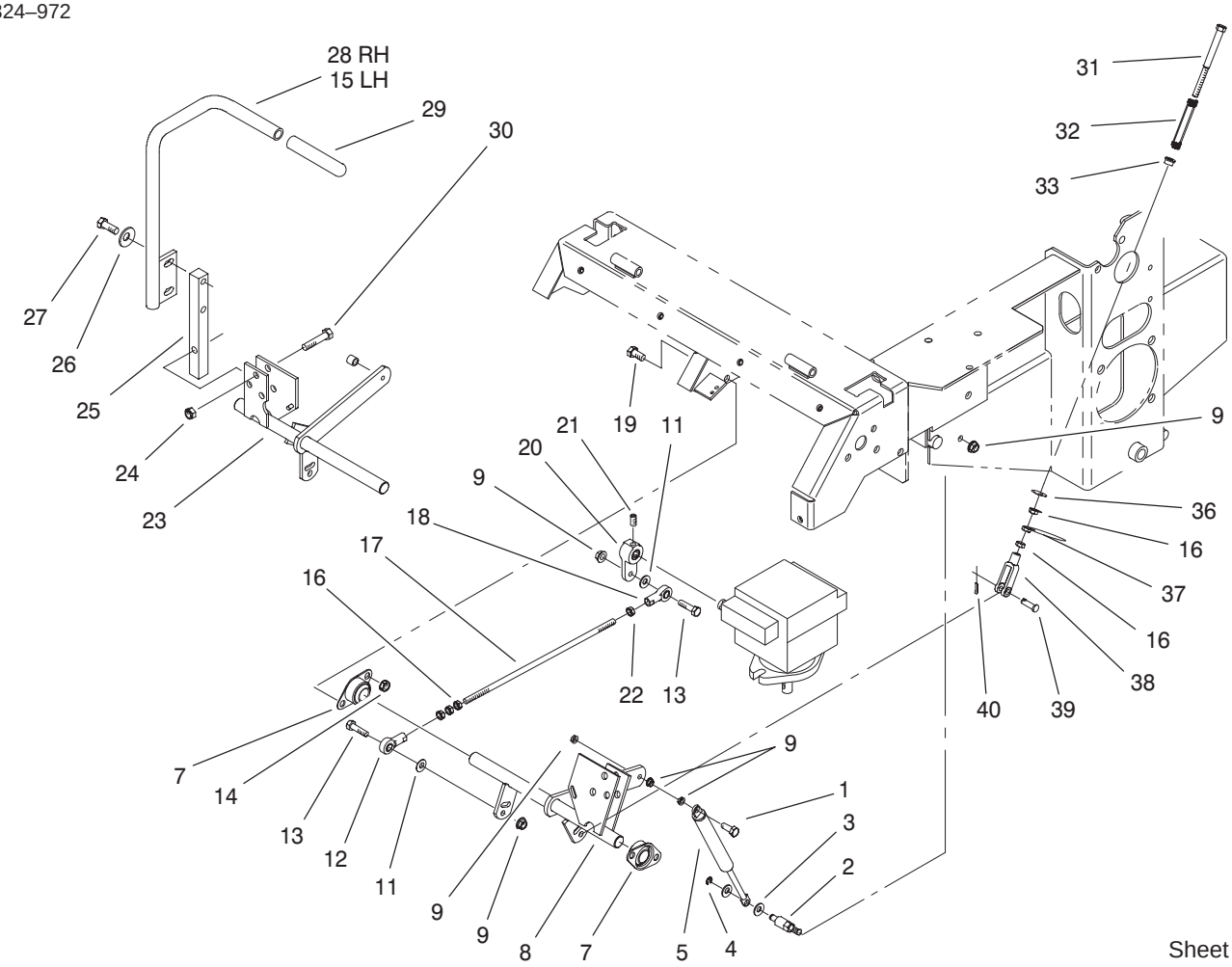
Sheet No.:6

Parking Brake System Assembly

Ref. No.	Part No.	Qty.	Description
1	1–652073–03	1	Wld,Park Brake Crank
2	3272–10	4	Pin–Cotter
3	1–633131	4	Yoke–Linkage, Brake
4	1–808285	4	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 w/Studs
11:1	103–0589	1	Hub–Wheel
11:2	1–633926	4	Stud–Heel
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,Park Brake
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

Ref. No.	Part No.	Qty.	Description
27	1–633102	4	Bearing–Flange, Side
28	3290–357	8	Nut–Flange, Lock
29	1–652085	1	Shaft – Parking Brake
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	1–000099	1	Kit–Seal
*34:99	1–000139	1	Kit–Bearing

* Not illustrated

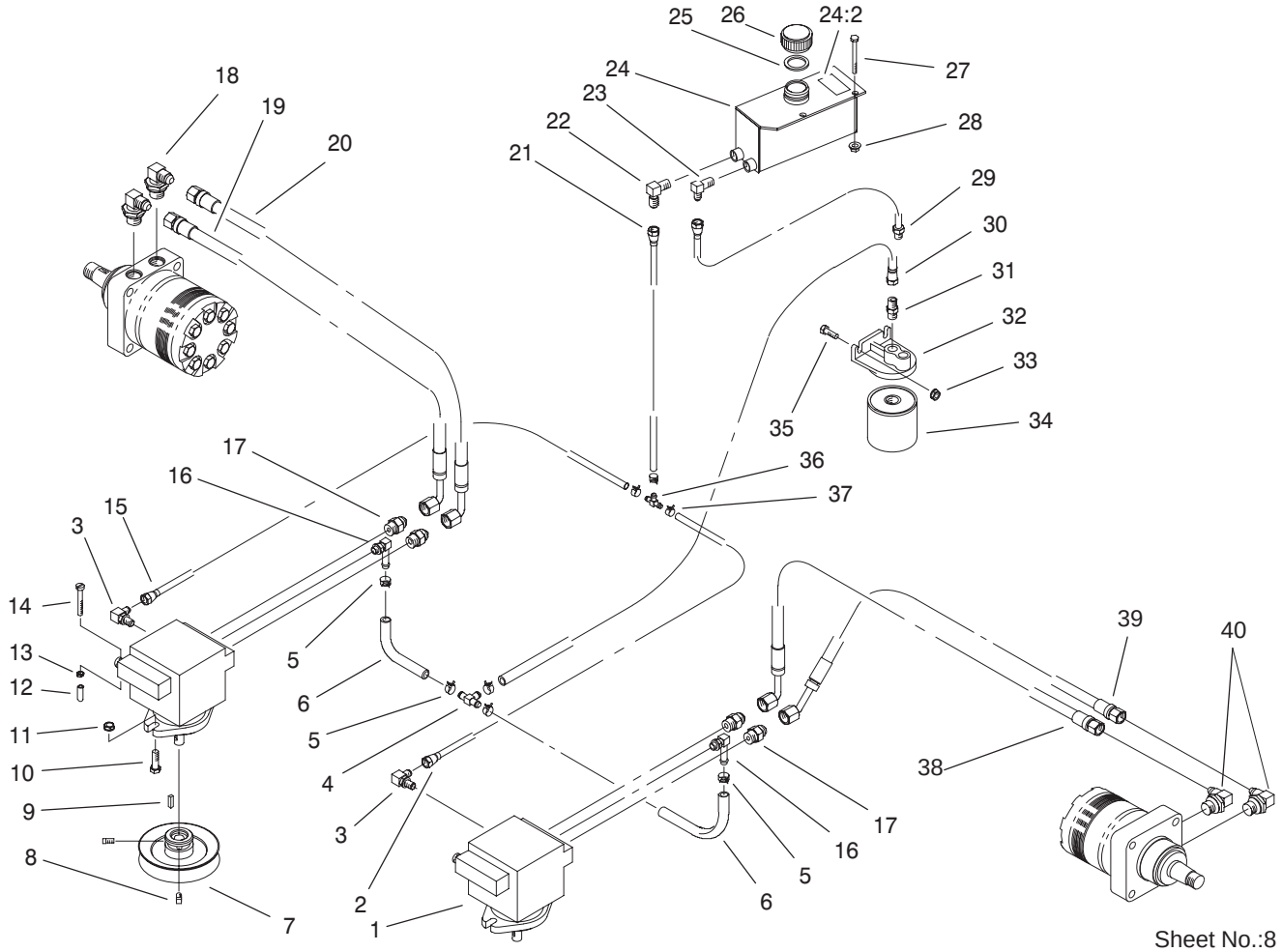


Sheet No.:7

Motion Control System Assembly

Ref. No.	Part No.	Qty.	Description
1	1–403180	2	Screw–HH
2	1–653316	2	Pin–Dampner
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	1–652467	1	Motion Control, LH
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–Flange, Lock
15	1–632191–03	1	Lever – Control, LH
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,Pump Control
21	1–803022	2	Screw
22	1–804524	2	Nut
23	1–652466	1	Motion Control, RH
24	3296–39	6	Nut–Lock, NI
25	1–633177	2	Arm,Control Shaft
26	98–5975	4	Washer–Belleville
27	323–6	4	Screw–HH
28	1–632193–03	1	Lever – Control, RH

Ref. No.	Part No.	Qty.	Description
29	1–633257	2	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, Nylon
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

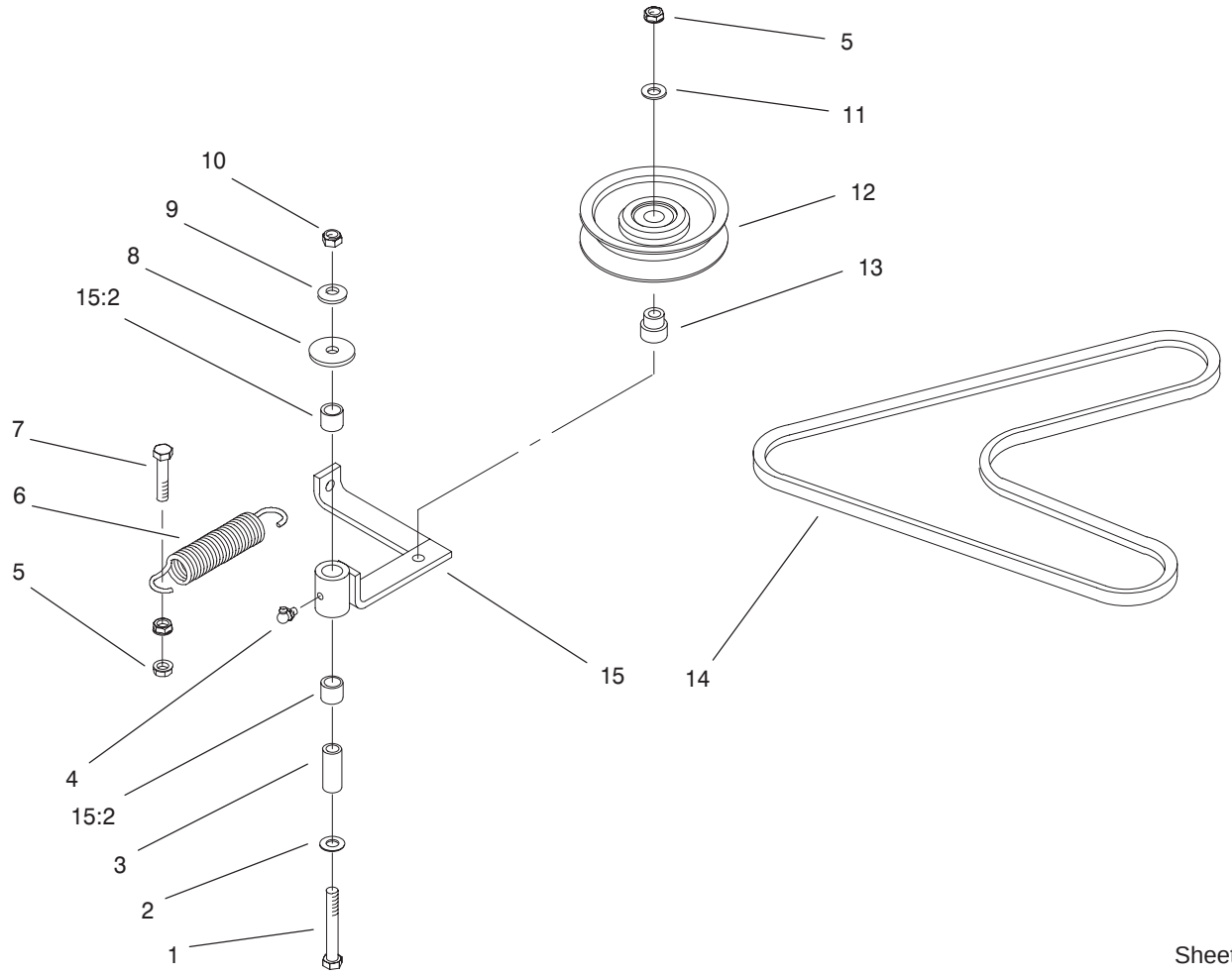


Sheet No.:8

Hydraulic System Assembly

Ref. No.	Part No.	Qty.	Description
1	1–603841	2	Pump–Hydraulic
2	1–632285	1	Hose ASM
3	1–513840	2	Fitting–90°
4	1–603721	1	Fitting–Tee, Hose
5	1–603827	5	Clamp–Hose
6	1–413273	2	Hose
7	1–653156	2	Sheave
8	1–803050	4	Screw–Set
9	1–807272	2	Key–Machine
10	323–7	4	Screw–HH
11	3290–357	4	Nut–Flange, Lock
12	1–613073	2	Grip,Dump Valve
13	3296–42	2	Nut–Lock, NI
14	1–801063	4	Screw
15	1–632286	1	Hose ASM
16	1–603989	2	Fitting
17	1–603990	4	Fitting–Straight
18	1–633605	2	Fitting,Connector
19	1–653186	1	Hose,Front
20	1–653187	1	Hose,RH Rear
21	1–654144	1	Hose
22	1–603987	1	Fitting–Elbow
23	1–603988	1	Fitting–Elbow
24	99–4625	1	Hydraulic Tank ASM
24:2	1–523552	1	Decal–Tank, Hydraulic
25	1–523103	1	Gasket–Cap, Tank

Ref. No.	Part No.	Qty.	Description
26	1–513167	1	Cap
27	321–15	2	Screw–HH
28	32128–33	2	Nut–HF
29	1–654320	1	Hose
30	1–654509	1	Hose
31	1–513510	1	Fitting,Straight
32	1–603720	1	Head–Filter
33	32128–20	2	Nut–HF
34	1–633750	1	Filter–Hydraulic
34	1–633752	1	Filter–Winter, Hydraulic
35	322–5	2	Screw–HH
36	1–603722	1	Fitting–Tee, Hose
37	1–603826	3	Clamp–Hose
38	1–653409	1	Hose,Hydraulic
39	1–653410	1	Hose,Hydraulic
40	1–633786	2	Fitting–90°

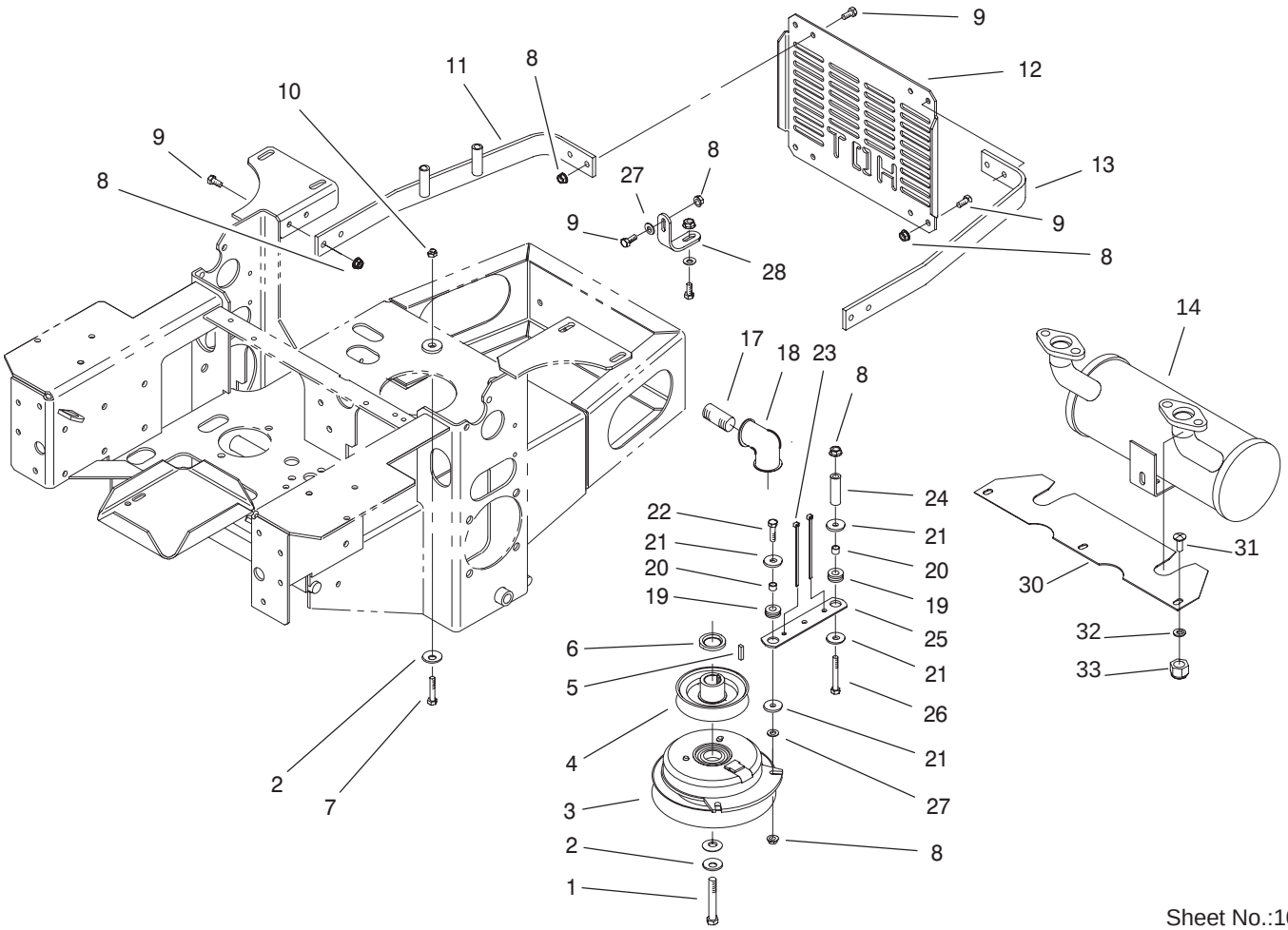


Sheet No.:9

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–Flange, Lock
6	1–603414	1	Spring–Extension
7	323–9	2	Screw–HH
8	1–213069	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 Toro
15	1–654143	1	Idler Arm
15:2	1–513034	2	Sleeve–Bearing

Ref. No.	Part No.	Qty.	Description



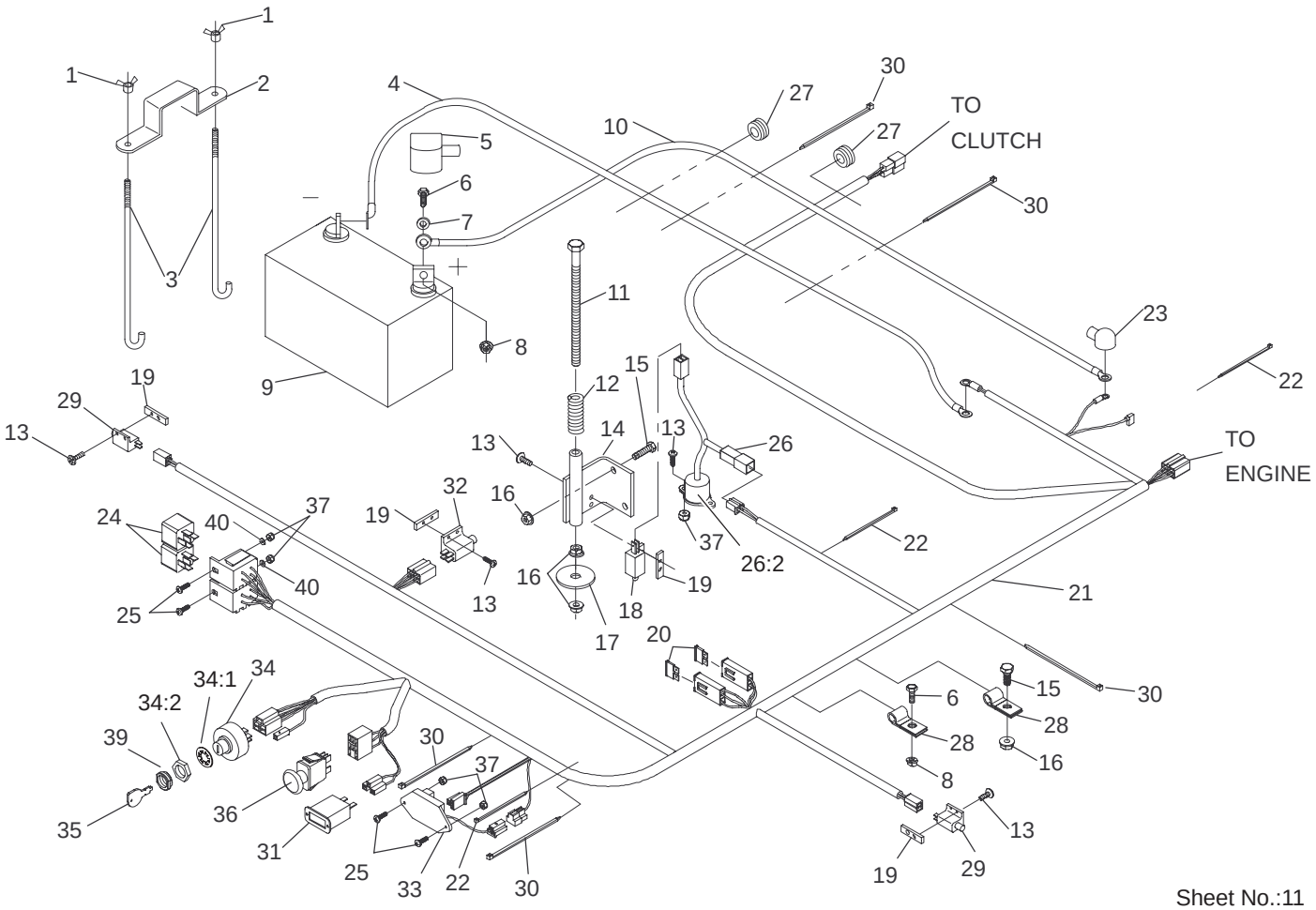
Sheet No.:10

Engine and Clutch Assembly

Ref. No.	Part No.	Qty.	Description
1	3212–10	1	Screw–HH
2	1–303334	4	Washer–Spring
3	1–653048	1	Clutch,Mag Stop
4	1–653035	1	Sheave,w/Hub
5	1–807259	1	Key
6	1–543214	1	Spacer–Crankshaft
7	322–9	4	Screw–HH
8	32128–20	16	Nut–HF
9	322–3	14	Screw–HH
10	32128–20	4	Nut–HF
11	1–652146–03	1	Strap–Guard, Engine
12	1–653095–03	1	Shield,Engine
13	1–653093–03	1	Strap,Engine Guard
14	1–653195	1	Muffler,18kc Vertical
17	1–543064	1	Nipple,Pipe
18	1–303428	1	Elbow–90°
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
27	3256–3	3	Washer–Flat

Ref. No.	Part No.	Qty.	Description
28	1–653196	1	Bracket,Muffler Support
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
☆99		1	Engine–Kohler, Cv20s Ps–6553

☆ Not serviced

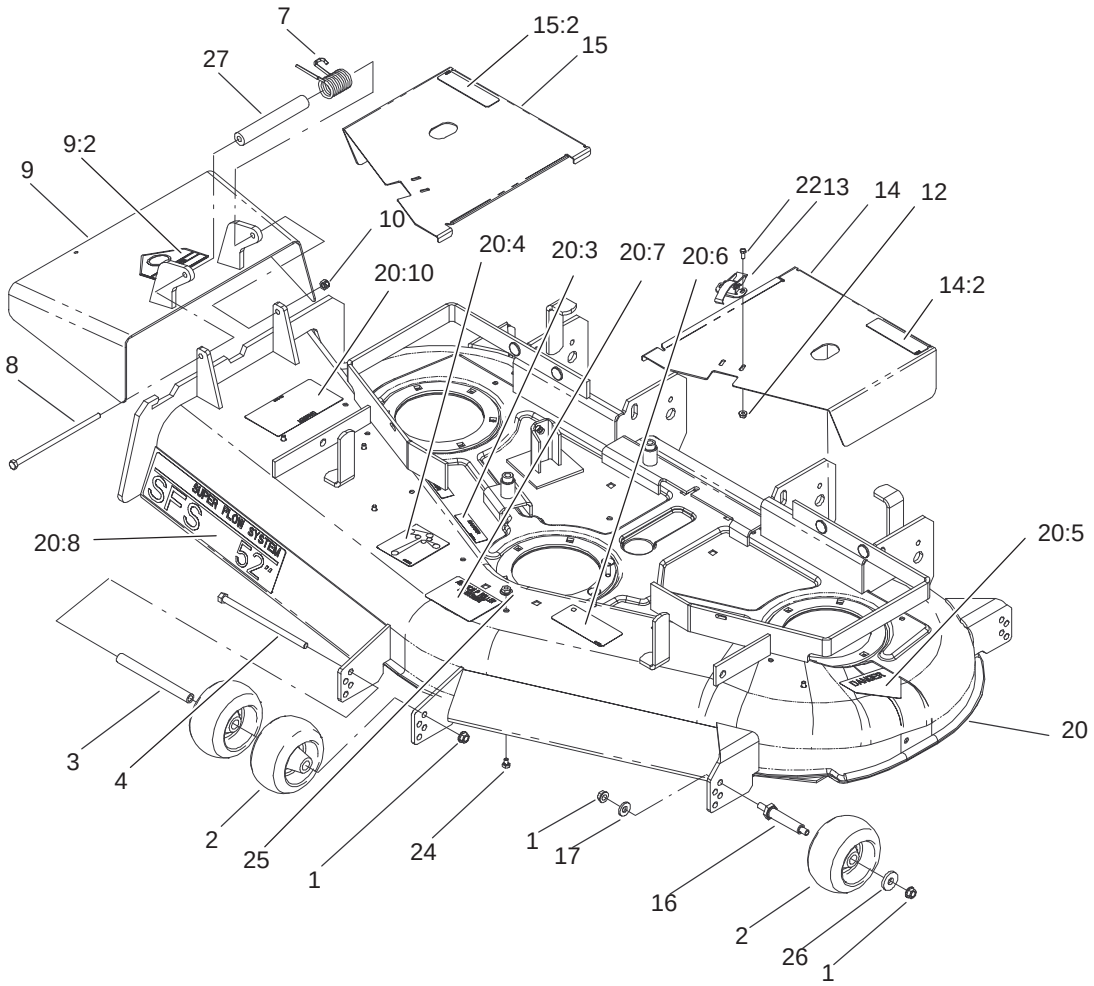


Sheet No.:11

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 (–)
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	1–603479	1	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	Wld,Seat Switch Bracket
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 Lhp Kc
22	1–303287	3	Tie–Plastic
23	1–543393	1	Insulator–Solenoid

Ref. No.	Part No.	Qty.	Description
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	5	Tie–Plastic
31	1–513374	1	Meter–Hours
32	1–633111	1	Switch
33	100–6186	1	Module–Delay, Seat
34	88–9830	1	Switch–Ignition
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	6	Nut–Lock
39	103–0499	1	Seal–Switch, Ignition
40	3256–14	2	Washer–Flat

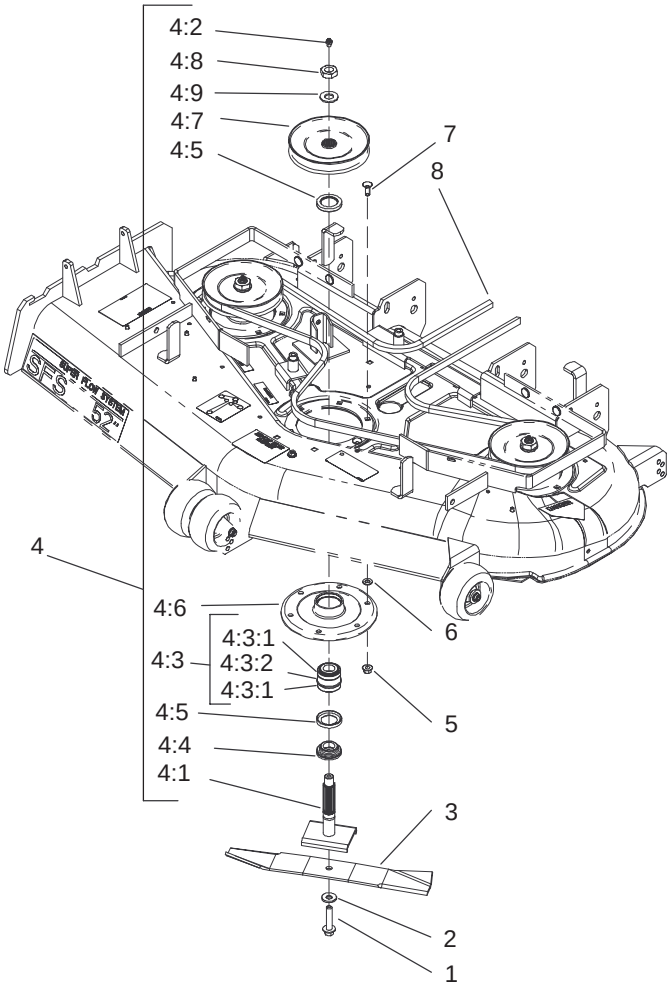


Sheet No.:14

52” Deck Assembly

Ref. No.	Part No.	Qty.	Description
1	3290–357	9	Nut–Flange, Lock
2	68–2730	6	Gage–Wheel
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	104–7753	1	Deflector ASM w/ Decals
9:2	54–9220	1	Decal–Danger
10	3296–29	1	Nut–Lock
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	104–7792	1	Deck ASM w/ Decals
20:3	98–5954	3	Decal–Missing, Cover
20:4	99–3943	1	Decal–Routing, Belt
20:5	43–8480	1	Decal–Danger
20:6	93–7818	1	Decal–Torque, Blade
20:7	98–3798	1	Decal–Wheel, Gage
20:8	98–5953	1	Decal–Sfs
20:10	66–1340	1	Decal–Danger

Ref. No.	Part No.	Qty.	Description
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	104–8555	1	Spacer–Deflector, Mounting

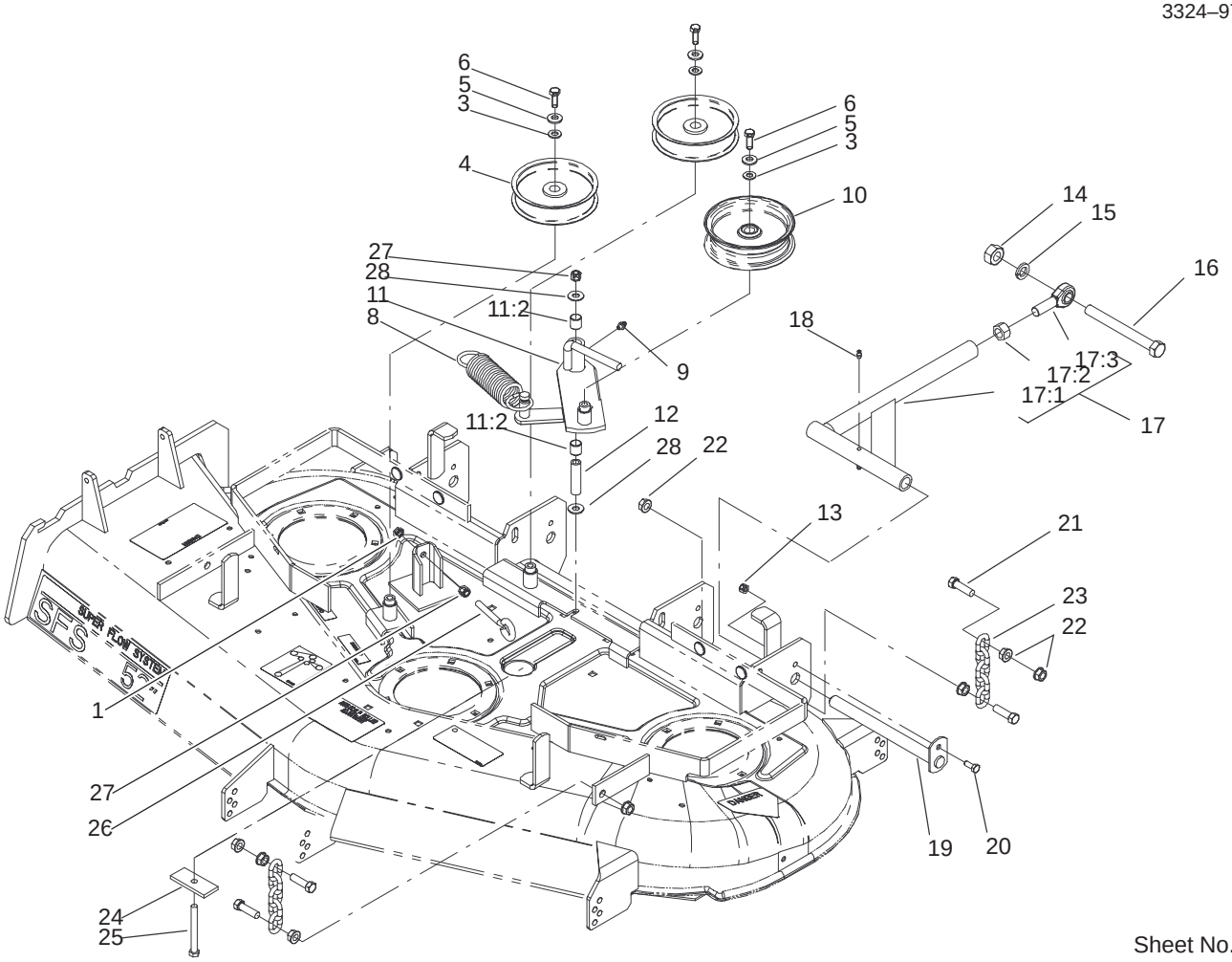


Sheet No.:15

52” 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
4:3:1	27–0960	1	Bearing ASM
4:3:2	27–5970	1	Spacer – Matched Set
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

Ref. No.	Part No.	Qty.	Description

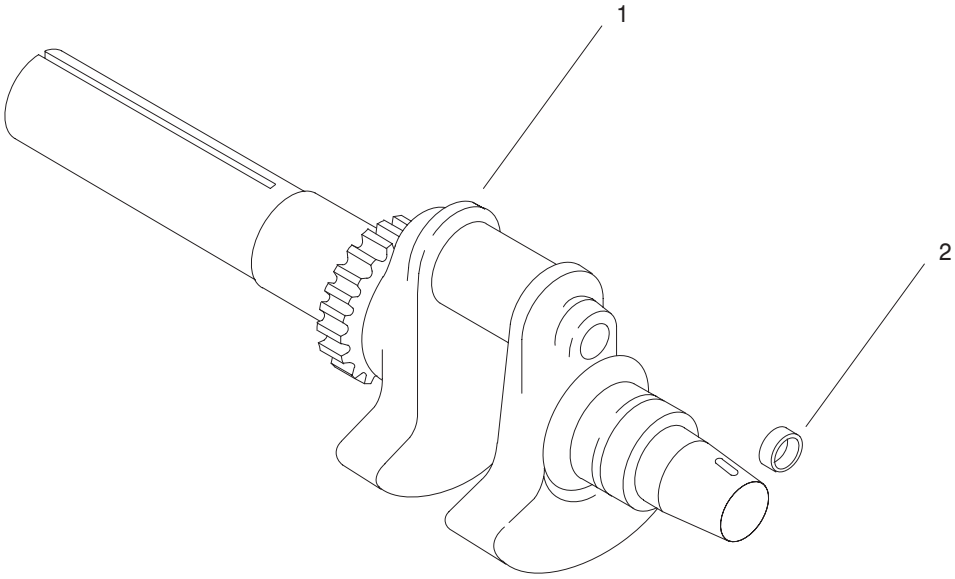


Sheet No.:16

Idler, Pulley/Lift Strut Chains 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 w/Bushings
11:2	1–513034	2	Sleeve–Bearing
12	1–603384	1	Bushing–Pivot, Idler
13	3296–29	2	Nut–Lock
14	3217–11	2	Nut–Hex
15	3253–8	2	Washer–Lock
16	1–800344	2	Screw
17	103–1081	2	ASM,Strut STD Long
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

Ref. No.	Part No.	Qty.	Description
24	99–3946–01	1	Plate–Retainer, Bolt
25	1–800805	1	Screw–HH
26	94–2547	1	Eyebolt
27	3296–39	2	Nut–Lock, NI
28	1–809107	2	Washer–hardened

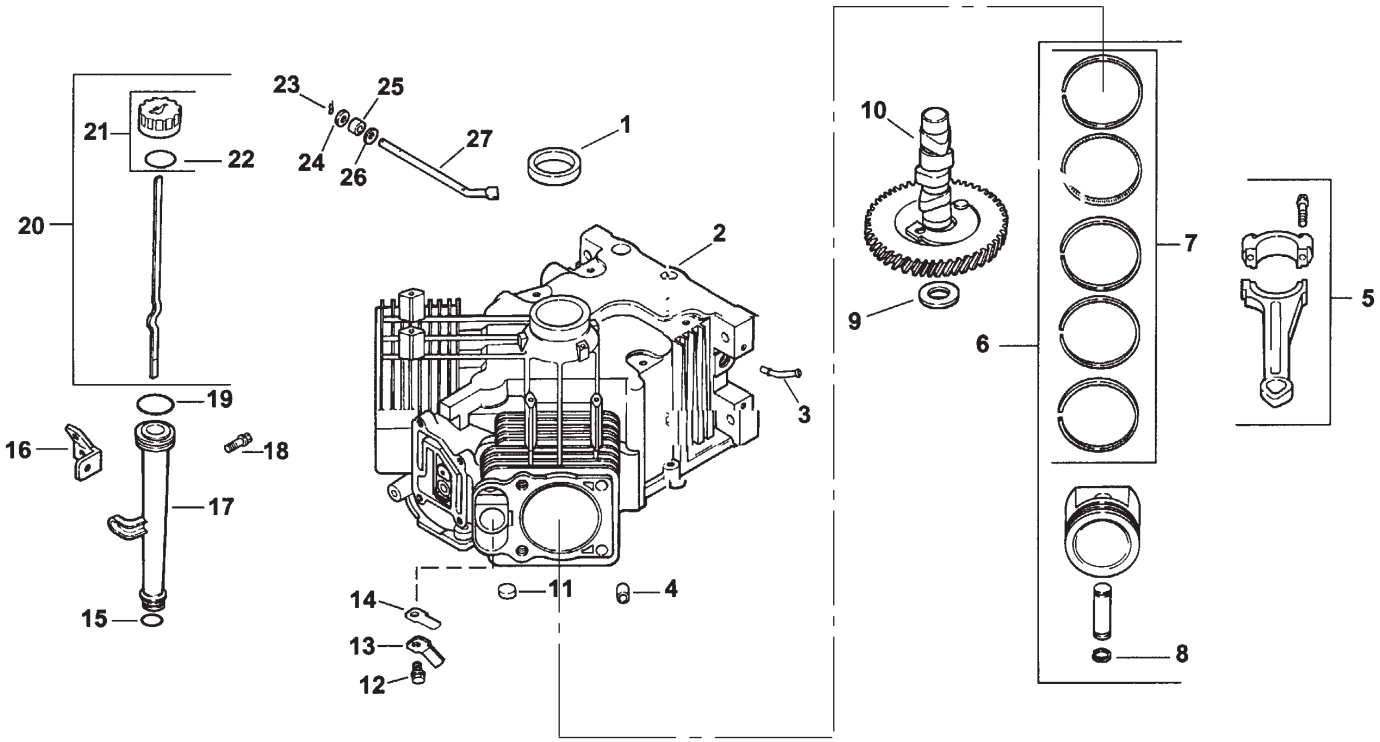


Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
1	24 014 32	2	Crankshaft
2	52 139 09	1	Plug, cap

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler



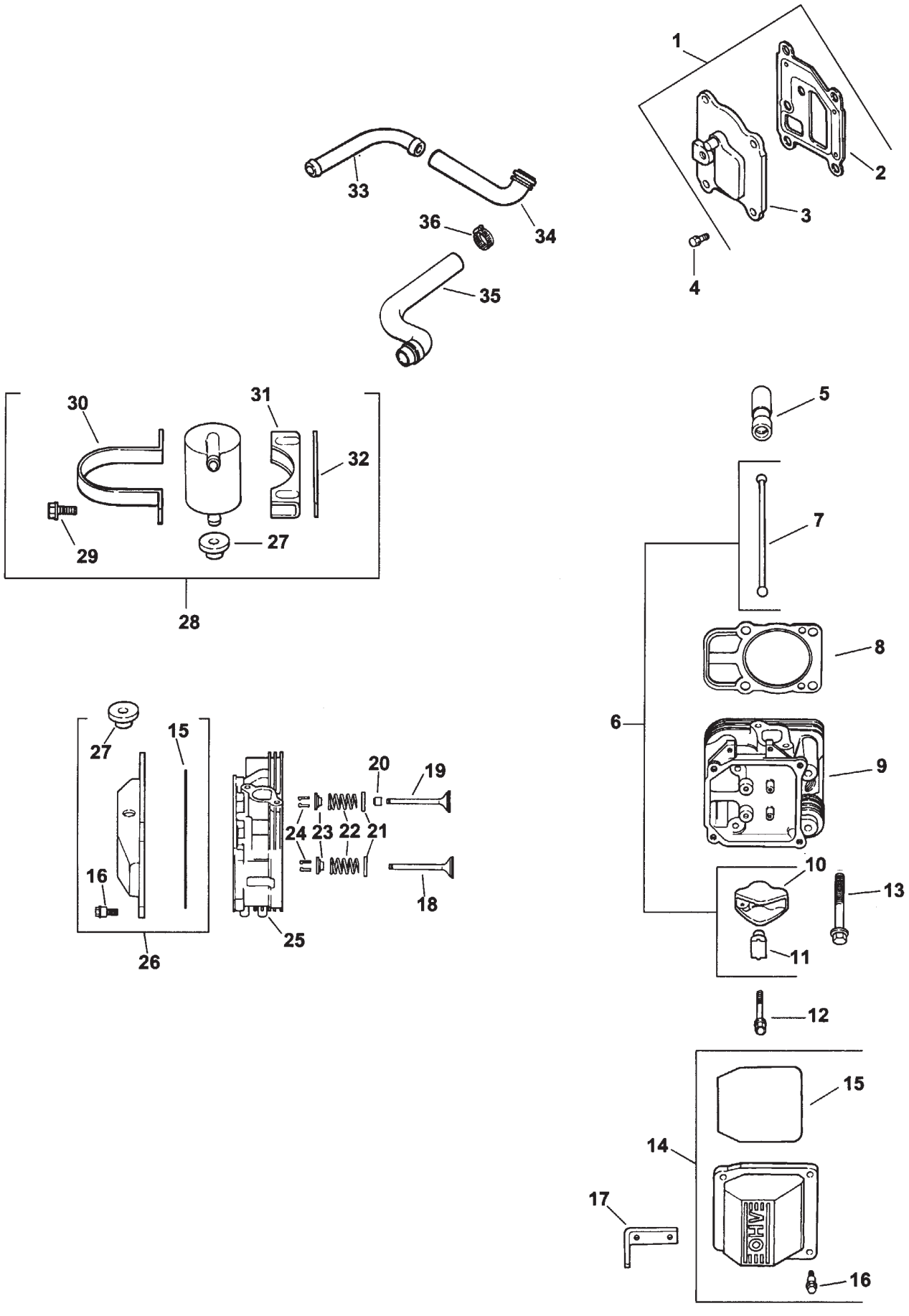
Crankcase Assembly

Ref. No.	Part No.	Qty.	Description
1	24 032 01	1	Seal, oil front
2	24 782 05	1	Cylinder Block
3	24 294 13	1	Fitting
4	12 380 17	6	Pin, dowel locating
5	24 067 13	2	Connecting Rod (Std.)
	24 067 14	2	Connecting Rod (.25)
6	24 874 01	2	Piston w/Ring Set Std. (Includes 7–8)
	24 874 02	2	Piston w/Ring Set (.25)
	24 874 03	2	Piston w/Ring Set (.50)
7	24 108 01	2	Ring Set (Std.)
	24 108 02	2	Ring Set (.25)
	24 108 03	2	Ring Set (.50)
8	24 018 01	4	Retainer, piston pin
9	12 422 09	A/R	Shim, camshaft red
	12 422 13	A/R	Shim, camshaft black
	12 422 07	A/R	Shim, camshaft white
	12 422 08	A/R	Shim, camshaft blue
	12 422 10	A/R	Shim, camshaft yellow
	12 422 11	A/R	Shim, camshaft green
	12 422 12	A/R	Shim, camshaft gray
10	24 012 10	1	Camshaft
11	52 139 09	1	Plug, cup
12	M–0545010	2	Screw, hex. flange
13	24 018 04	2	Retainer, reed
14	24 402 05	2	Reed, breather

Ref. No.	Part No.	Qty.	Description
15	12 153 01	1	O–Ring, lower oil fill
16	24 126 19	1	Bracket, oil fill tube
17	12 123 04	1	Tube, oil fill
18	M–0545016	1	Screw, hex. flange
19	12 153 02	1	O–Ring, upper oil fill
20	24 038 04	1	Dipstick assembly (Includes 21,22)
21	25 755 13	1	Kit, oil fill cap (Includes 22)
22	12 153 03	1	O–Ring, dipstick
23	12 380 04	1	Pin, hitch
24	M–0631005	1	Washer, plain 6 mm
25	12 032 01	1	Seal, gvrn. cross shaft
26	X–25–102	1	Washer, plain 1/4”
27	24 144 01	1	Shaft, governor cross

Obtain Parts From Kohler

Head/Valve/Breather Assembly



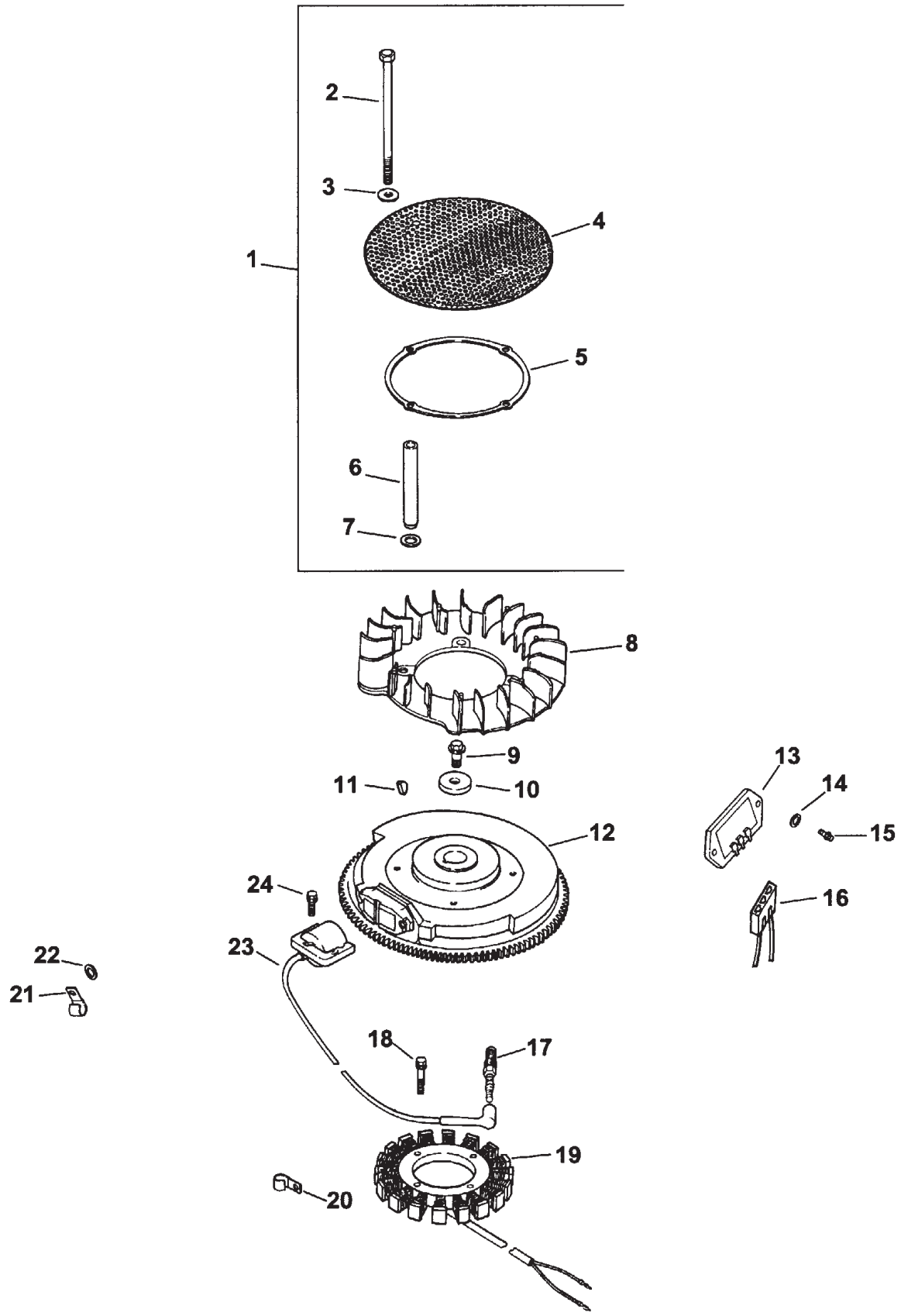
Head/Valve/Breather Assembly

Ref. No.	Part No.	Qty.	Description
1	24 033 03	1	Kit, breather cover w/gasket (Incl. 2,3)
2	24 041 23	1	Gasket, breather
3	24 096 59	1	Cover, breather
4	M–0645020	4	Screw, hex. flange
5	25 351 01	4	Lifter, valve
6	24 755 66	1	Kit, valve train (Includes 7,10,11)
7	24 411 05	4	Rod, push
8	24 041 08	2	Gasket, cylinder head
9	24 318 12	1	Head assembly, #2 cylinder
10	25 186 01	4	Arm, rocker
11	24 599 01	4	Pivot, rocker arm
12	M–0640034	4	Screw, hex. flange
13	12 086 16	8	Screw, hex. flange
14	24 755 74	1	Kit, valve cover – plain (Includes 15,16)
15	24 153 16	1	O–Ring
16	24 086 32	4	Screw, shoulder
17	24 445 01	1	Strap, lifting
18	24 016 01	2	Valve, exhaust (Std.)
	24 016 02	2	Valve, exhaust (.25)
19	24 017 01	2	Valve, intake (Std.)
	24 017 02	2	Valve, intake (.25)
20	24 032 05	2	Seal, valve stem
21	235011	4	Retainer, spring
22	24 089 02	4	Spring, valve
23	12 173 01	4	Cap, valve spring
24	12 755 03	4	Kit, retainer
25	24 318 11	1	Head assembly, #1 cylinder
26	24 755 76	1	Kit,valve cover breather(Incl. 15,16,27)
27	25 313 02	1	Grommet, rubber
28	24 755 57	1	Kit, breather separator (Includes 27,29–32)
29	M–0545016	2	Screw, hex. flange
30	24 445 02	1	Strap, breather
31	24 126 44	1	Bracket, breather separator
32	24 112 12	1	Spacer
33	24 294 06	1	Fitting
34	24 326 13	1	Hose, breather
35	24 326 14	1	Hose, breather
36	X–426–9	2	Clamp, hose 1/2”

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

Ignition/Electrical Assembly



Ignition/Electrical Assembly

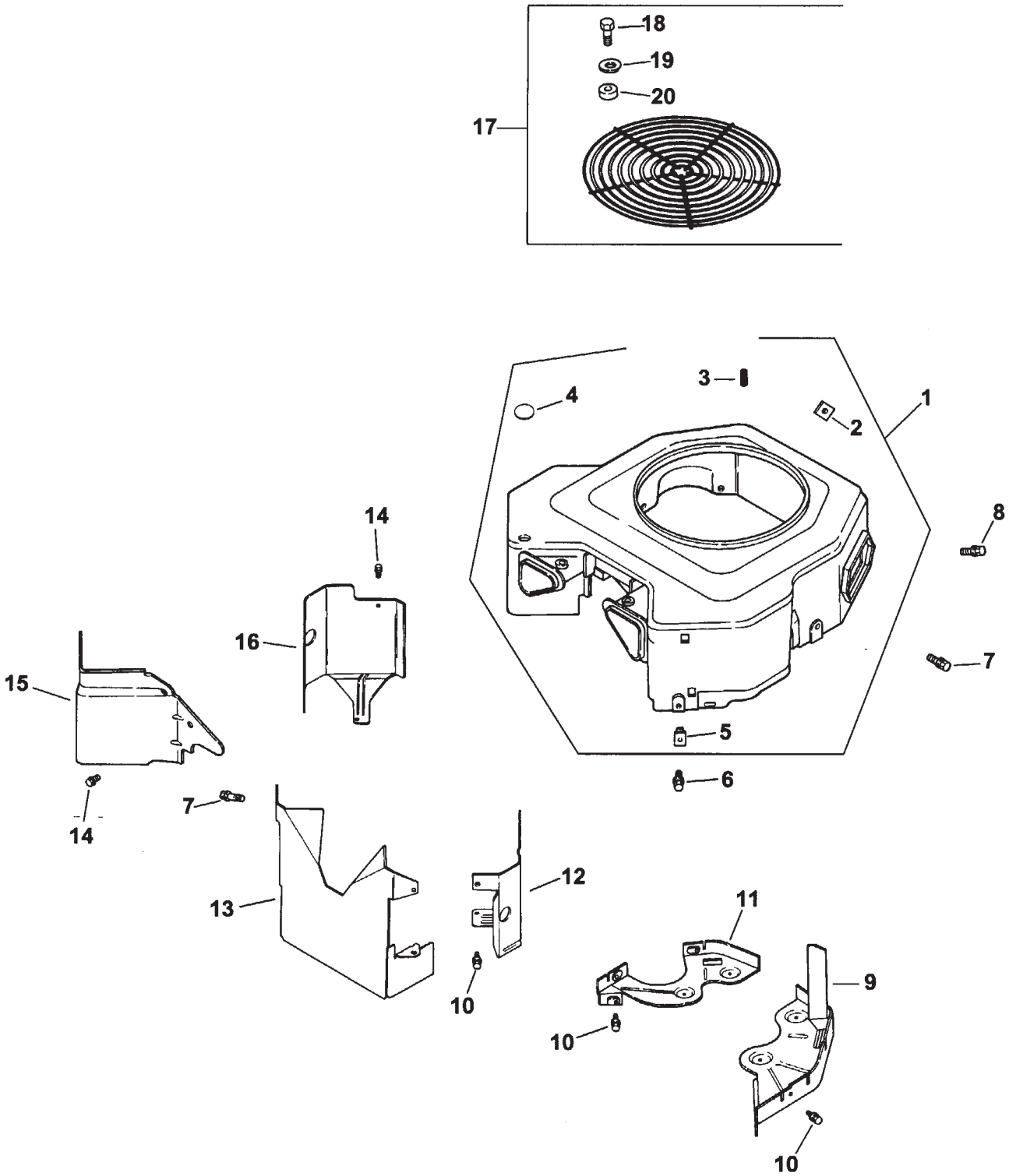
Ref. No.	Part No.	Qty.	Description
1	24 755 79	1	Kit, chopper screen (Includes 2–7)
2	M–0603100	4	Screw, hex. cap
3	X–25–53	4	Washer, plain 1/4”
4	24 162 25	1	Screen, grass
5	24 141 06	1	Ring, support
6	24 112 14	4	Spacer, grass screen
7	24 468 11	4	Washer, spring 10 mm
8	24 157 03	1	Fan
9	12 086 14	1	Screw, hex. flange
10	12 468 03	1	Washer, plain 3/8”
11	X–42–15	1	Key
12	24 025 04	1	Flywheel
13	25 403 03	1	Rectifier–regulator
14	X–25–92	2	Washer, plain 3/16”
15	24 086 18	2	Screw, phillips hd.
16	236602	1	Connector (3 contact)
17	12 132 06	2	Spark Plug
18	M–0548025	2	Screw, hex. cap
19	54 755 09	1	Kit, 15 amp stator (Includes Bracket, stator wire 24 126 71)
20	235173	1	Clip, cable
21	48 154 02	1	Clip, cable
22	X–25–63	1	Washer, plain 1/4”
23	24 584 01	2	Module, ignition
24	M–0545020	4	Screw, hex. flange
*	24 126 71	1	Bracket, stator wire
*	X–22–11	1	Washer, plain 1/4” (to ground rectifier–regulator)
*	25 086 43	1	Screw, set
*	24 176 07	1	Harness, wiring
*	25 518 28	1	Lead, black (rectifier–regulator 4” 18 gauge – insulated grip barrel eyelets)

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

* Not Illustrated

Blower Housing & Baffles Assembly



Blower Housing & Baffles Assembly

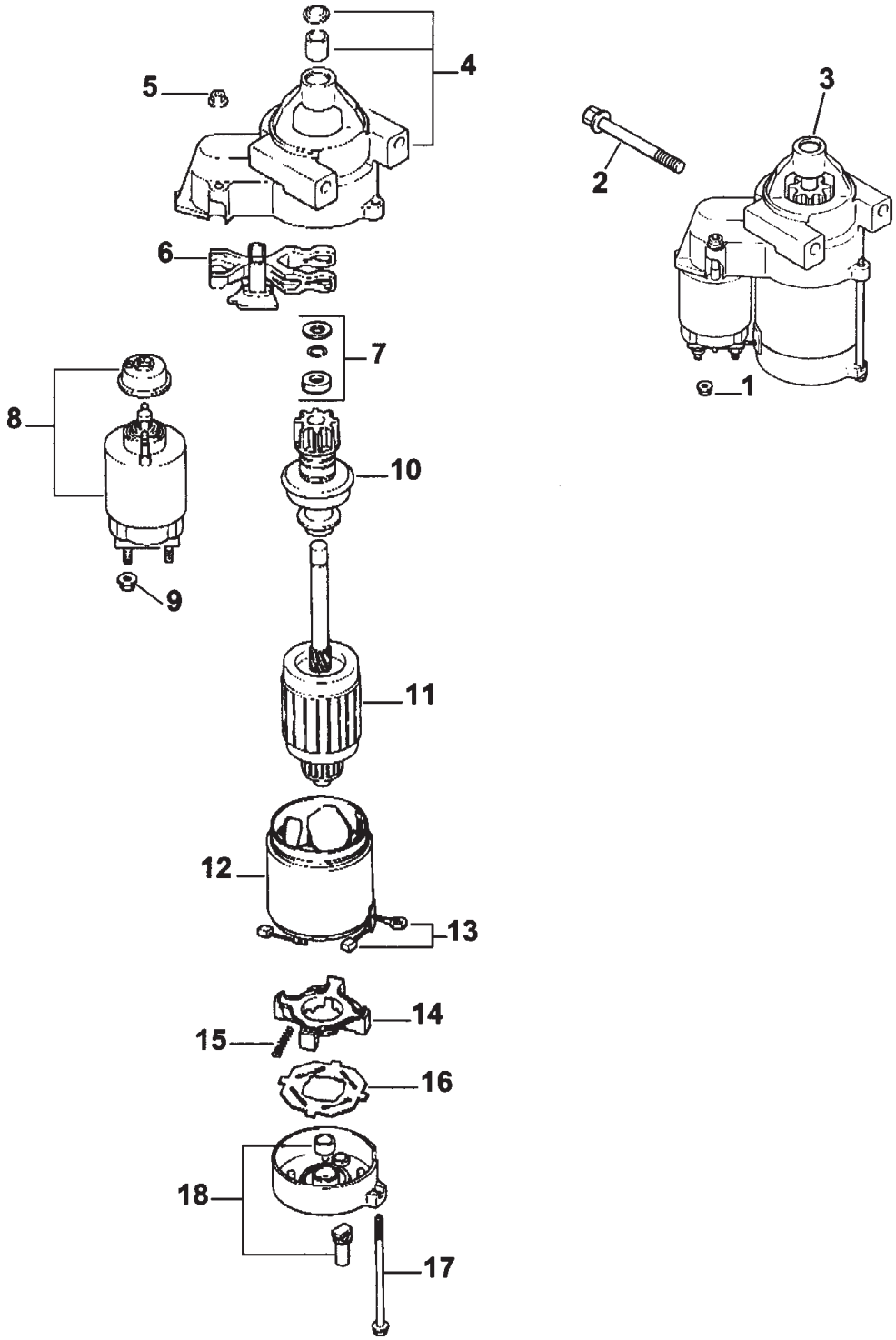
Ref. No.	Part No.	Qty.	Description
1	24 027 28	1	Housing, blower (Includes 2–5)
2	24 100 01	3	Nut, plastic
3	25 086 43	1	Screw, set
4	25 139 16	1	Plug, button 9/16”
5	24 100 02	2	Nut, plastic
6	M–0567020	4	Screw, hex. flange
7	M–0545016	3	Screw, hex. flange
8	M–0551016	1	Screw, hex. flange
9	24 146 02	1	Plate, backing # 2 side
10	M–0645016	6	Screw, hex. flange
11	24 146 08	1	Baffle, valley – #1 side
12	24 063 20	1	Baffle, cylinder barrel # 2 side
13	24 063 23	1	Baffle, valley – #1 side
14	M–0545010	2	Screw, hex. flange
15	24 063 14	1	Baffle, valley – #2 side
16	24 063 30	1	Baffle, cylinder barrel # 1 side
17	24 755 94	3	Kit, guard (Includes 18–20, Threaded insert [Qty. 3] 24 332 01)
18	24 086 39	3	Screw, pan hd.
19	24 468 10	3	Washer, flat 1/4”
20	24 112 09	3	Spacer
*	24 332 01	4	Insert, threaded
*	24 113 67	1	Decal, 20 HP

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

* Not Illustrated

Starting System Assembly

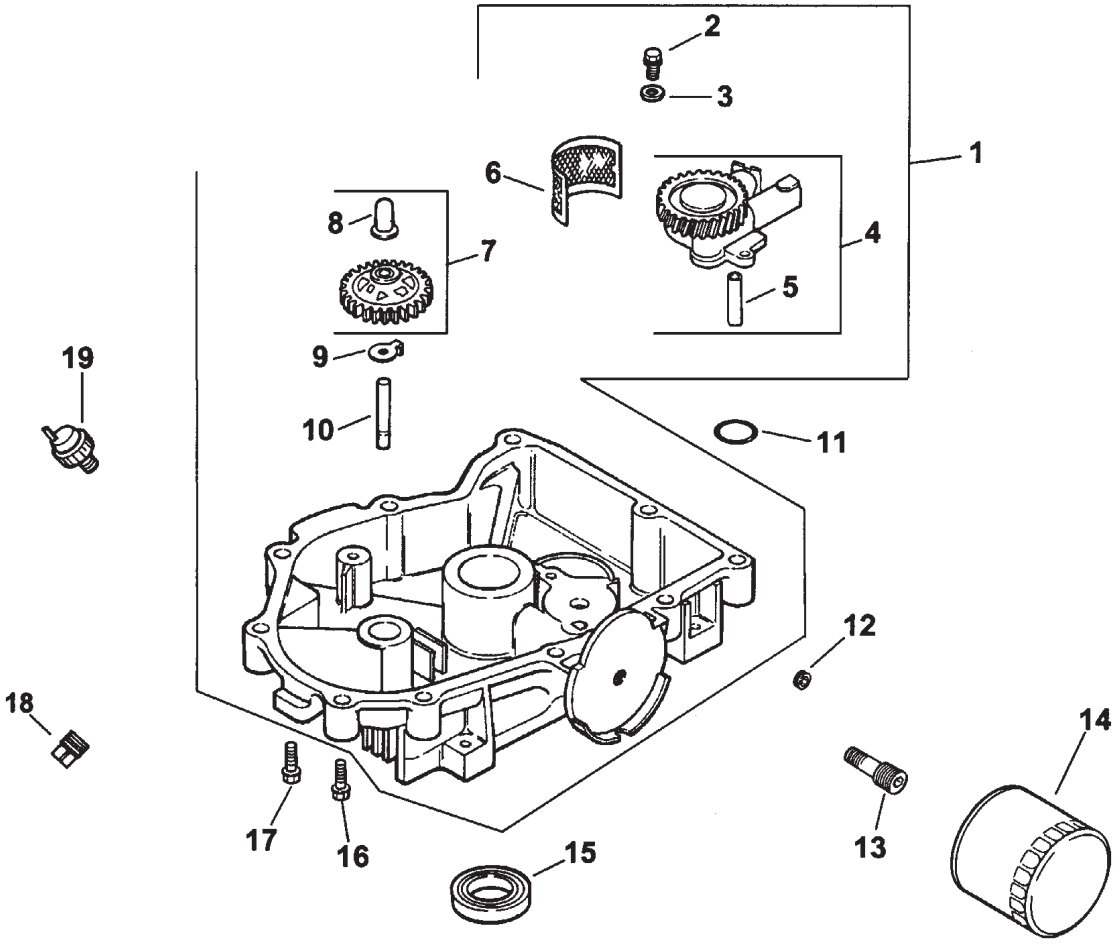


Starting System Assembly

Ref. No.	Part No.	Qty.	Description
1	M–0841080	1	Nut, hex. flange
2	M–0839080	2	Screw, hex. flange
3	12 098 03	1	Starter, solenoid shift (Includes 4–18)
4	12 081 02	1	Drive, end cap
5	52 100 10	2	Nut, starter
6	12 090 10	1	Lever, starter drive
7	24 755 84	1	Kit, starter repair
8	52 435 02	1	Solenoid
9	52 100 09	1	Nut, starter
10	12 239 01	1	Drive, pinion
11	12 170 03	1	Armature, starter
12	12 471 01	1	Frame
13	52 221 01	1	Kit, brush (Includes 15)
14	52 323 03	1	Holder, brush
15	52 089 09	4	Spring, brush
16	52 168 01	1	Insulator
17	52 211 05	2	Bolt, thru
18	12 301 01	1	Commutator, end cap

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

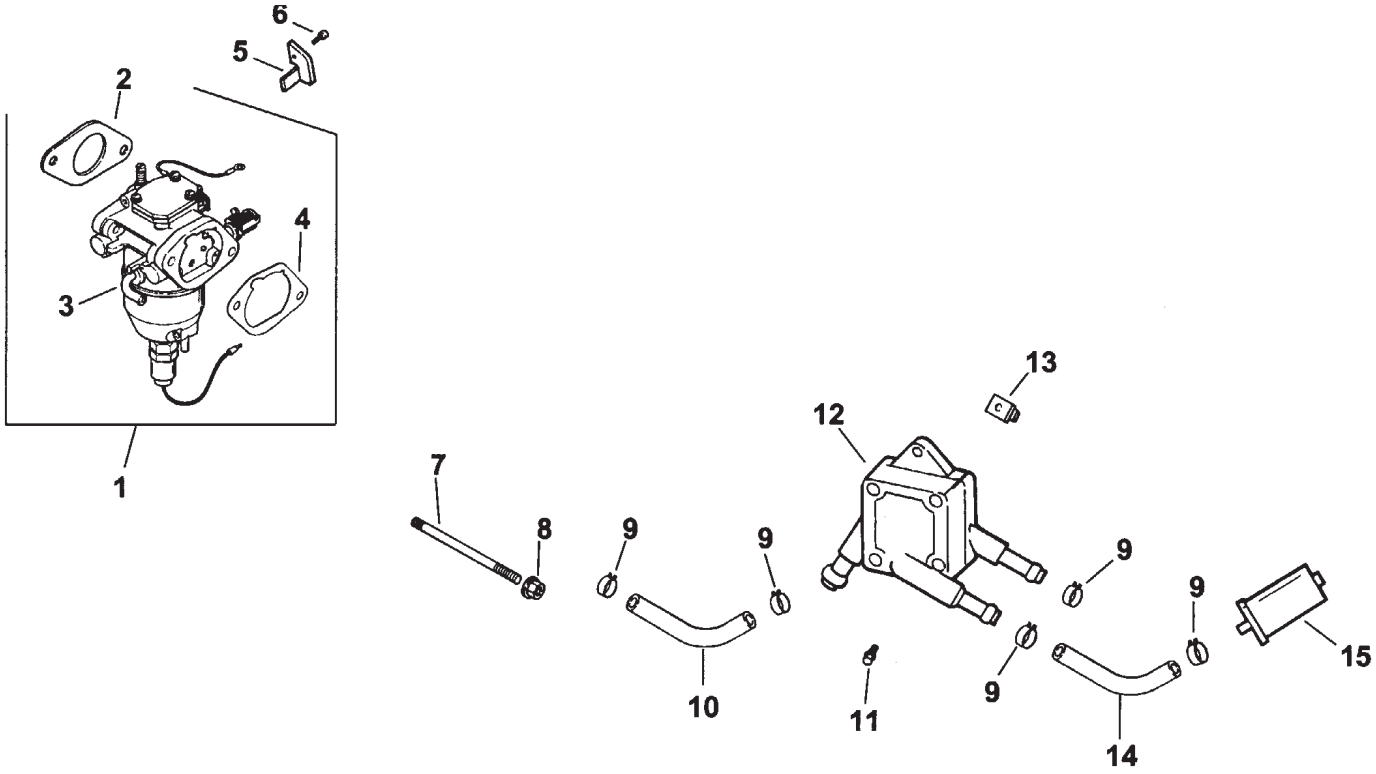


Oil Pan/Lubrication Assembly

Ref. No.	Part No.	Qty.	Description
1	24 199 07	1	Pan, oil assembly (Includes 2–10)
2	M–0645025	2	Screw, hex. flange
3	M–0631005	2	Washer, plain 6 mm
4	24 393 08	1	Oil pump assembly (Includes 5)
5	24 123 05	1	Tube, oil pickup
6	24 162 26	1	Screen, oil
7	24 043 12	1	Kit, governor gear w/pin (Includes 8)
8	12 380 01	1	Pin, gvrn. regulating
9	52 448 02	1	Tab, locking
10	12 144 02	1	Shaft, governor gear
11	24 153 08	1	O–Ring
12	X–75–32	1	Plug, hex. ctsk. 3/8”
13	24 136 01	1	Nipple, oil filter
14	52 050 02	1	Filter, oil
15	52 032 08	1	Seal, oil (PTO end)
16	24 086 17	1	Screw, hex. flange
17	24 086 16	9	Screw, hex. flange
18	X–75–10	1	Plug, hex. head 3/8”
19	24 099 03	1	Switch, oil pressure

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

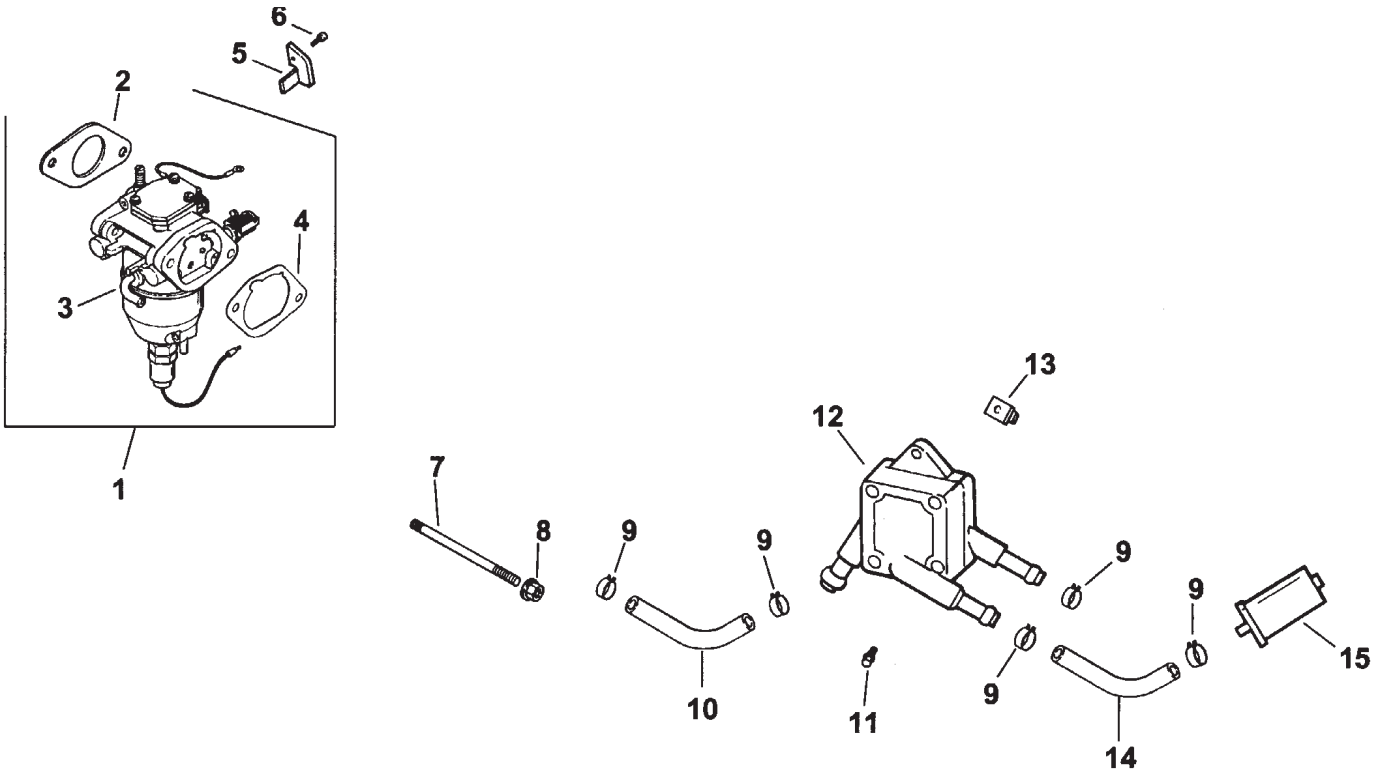


Fuel System Assembly

Ref. No.	Part No.	Qty.	Description
1	24 853 25	1	Kit, carburetor with gaskets (Includes 2–4)
2	24 041 15	1	Gasket, carburetor
3	24 053 25	1	Carburetor assembly (For information only not available separately) (Includes 24 757 18, 24 757 19, 24 757 20, 24 757 22)
4	24 041 14	1	Gasket, air cleaner
5	24 126 53	1	Bracket, throttle stop
6	M–0259005	1	Screw, pan hd.
7	M–0629095	2	Stud
8	M–0641060	2	Nut, hex. flange
9	X–426–9	6	Clamp, hose
10	24 353 03	2	Line, fuel 10–1/2”
11	24 086 12	2	Screw, hex. cap.
12	24 393 04	1	Pump, fuel – pulse
13	24 100 01	2	Nut, plastic
14	25 353 10	1	Line, fuel 9”
15	24 050 02	1	Filter, fuel
*	24 757 18		Kit, overhaul w/gaskets (Includes air cleaner base gasket, carburetor gasket, throttle adjusting screw, gasket, idle adjusting screw, float, float pin, float valve, float chamber gasket, throttle adjusting screw spring, idle adjusting screw spring, passage cover gasket)
*	24 757 19		Kit, choke repair w/gaskets (Includes air cleaner base gasket, carburetor gasket, valve set screw, choke valve, choke shaft filter, choke arm return spring, choke lever ring, choke collar, choke shaft assembly, choke lever assembly)
*	24 757 20		Kit, gasket (Includes air cleaner base gasket, carburetor gasket, float chamber gasket, passage cover gasket)

Obtain Parts From Kohler

* Not Illustrated

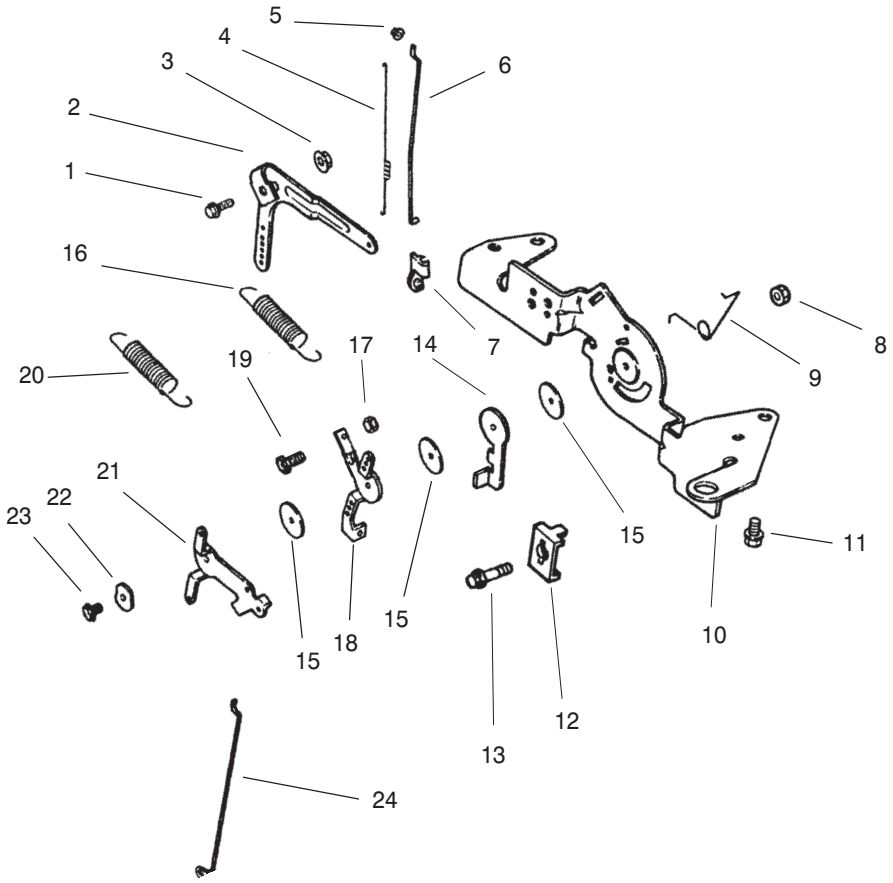


Fuel System Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
*	24 757 22		Kit, solenoid replacement w/gaskets (Includes air cleaner base gasket, carburetor gasket, solenoid gasket, chamber screw gasket, solenoid holder, solenoid valve)

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler
* Not Illustrated

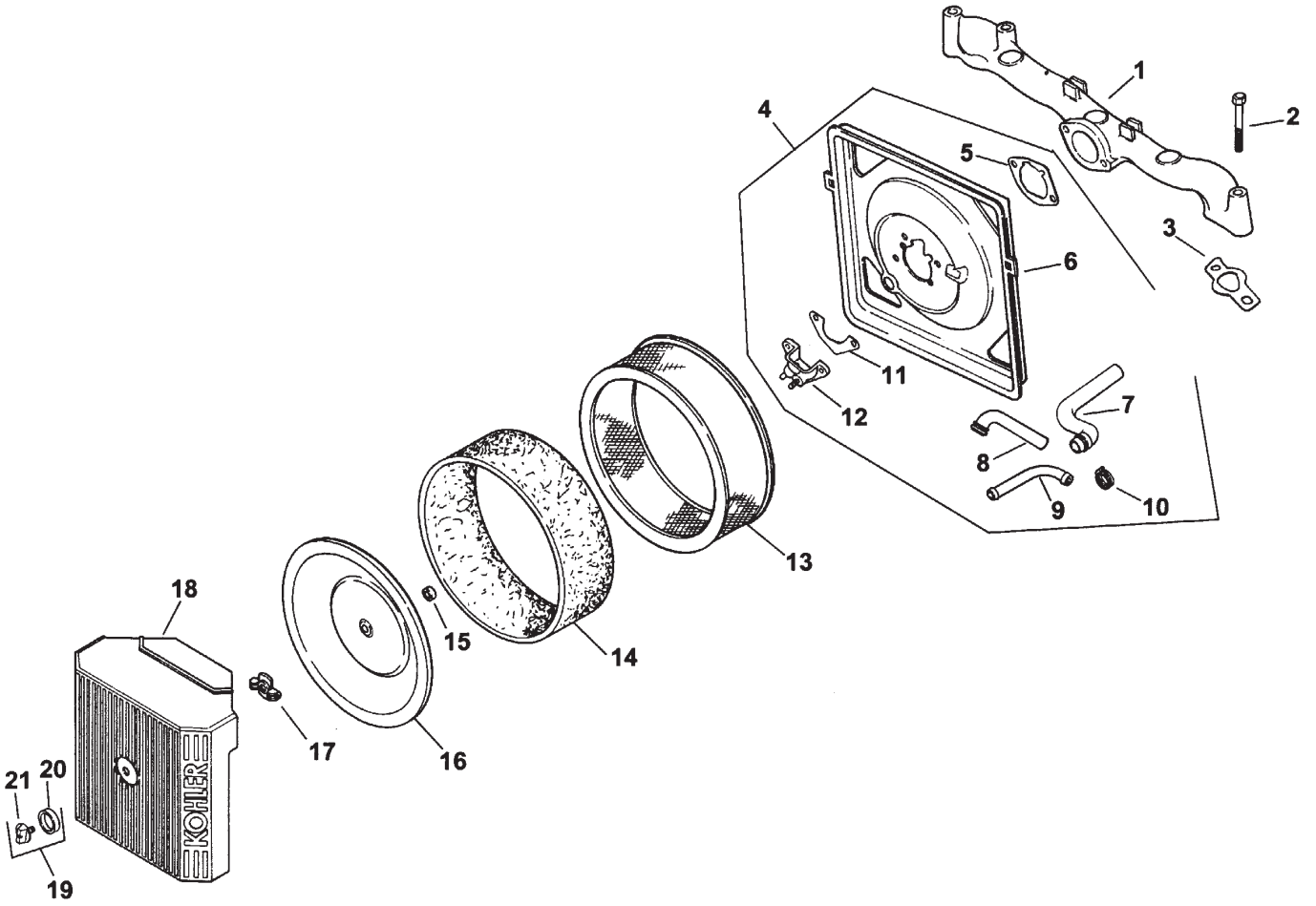


Engine Controls Assembly

Ref. No.	Part No.	Qty.	Description
1	SM–0642025	1	Screw, hex. flange
2	24 090 14	1	Lever, governor
3	M–0641060	1	Nut, hex. flange
4	24 089 01	1	Spring, linkage
5	25 158 08	1	Bushing, linkage retaining
6	24 079 04	1	Linkage, throttle
7	25 158 11	1	Bushing, throttle linkage
8	M–0547050	1	Nut, hex. lock
9	24 089 03	1	Spring, choke return
10	24 126 56	1	Bracket, control
11	M–0645016	4	Screw, hex. flange
12	12 237 01	2	Clamp, cable
13	M–0545016	3	Screw, hex. flange
14	24 090 07	1	Lever, throttle actuator
15	24 468 01	3	Washer, plain 5.5 mm
16	24 089 15	1	Spring, governor
17	M–0446030	1	Nut, hex.
18	24 090 03	1	Lever, throttle control
19	M–0545020	1	Screw, hex. flange
20	24 089 38	1	Spring, throttle limiter
21	24 090 05	1	Lever, choke
22	41 468 03	1	Washer, spring 1/4”
23	M–0403025	1	Screw, hex. cap
24	24 079 05	1	Linkage, choke

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler

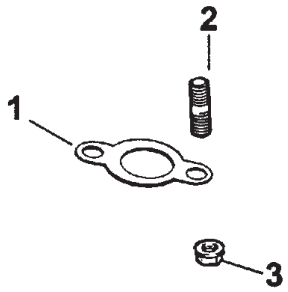


Air Intake Assembly

Ref. No.	Part No.	Qty.	Description
1	24 164 06	1	Manifold, intake
2	M–0651055	4	Screw, hex. flange
3	24 041 01	2	Gasket, intake manifold
4	24 755 86	1	Kit, air cleaner base (Includes 5–12)
5	24 041 14	1	Gasket, air cleaner base
6	24 094 19	1	Base, air cleaner
7	24 326 13	1	Hose, breather
8	24 326 14	1	Hose, breather
9	24 294 06	1	Fitting
10	X–426–9	2	Clamp, hose
11	24 041 13	1	Gasket, fuel spitback cup
12	24 109 10	1	Cup, fuel spitback
13	47 083 03	1	Element, air cleaner
14	24 083 02	1	Precleaner, element
15	24 032 03	1	Seal, breather
16	24 096 01	1	Cover, inner air cleaner
17	12 100 01	1	Wing Nut
18	24 096 24	1	Cover, air cleaner
19	54 755 01	1	Kit, knob with seal (Includes 20,21)
20	24 153 15	1	O–Ring
21	25 341 03	1	Knob, cover

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kohler



Exhaust Assembly

Ref. No.	Part No.	Qty.	Description
1	24 041 02	2	Gasket, exhaust
2	25 072 04	4	Stud
3	M–0841080	4	Nut, muffler mounting
	24 522 14	1	Short Block
	24 782 05	1	Miniblock
	24 755 03	1	Gasket Set

Ref. No.	Part No.	Qty.	Description

Obtain Parts From Kolher

Maintenance Record

Date								

Maintenance Record

Date								

TORO®