



Z153

Z–Master[®] with 52in SFS Side Discharge Mower

Model No. 74198—230005001 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
Front Frame Assembly	4
Caster Wheel Assembly No. 1–634662	5
Front Spring Assembly No. 103–1987	6
Height of Cut Assembly	7
Main Frame Assembly	8
Seat Assembly No. 1–633705	9
Fuel System Assembly	10
Parking Brake System Assembly	11
Motion Control System Assembly	12
Hydraulic System Assembly	13
Pump, Idler and Belt Assembly	15
Engine and Clutch Assembly	16
Deck Assembly	17
Deck Spindle Assembly	18
Idler, Pulley/Lift Strut, Chain Assembly	19
Electrical System Assembly	20
Electrical Schematic	21
Piston and Crankshaft Assembly Kawasaki FH680V–AS21	22

Description	Page
Cylinder and Crankcase Assembly Kawasaki FH680V–AS21	23
Valve/Camshaft Assembly Kawasaki FH680V–AS21	24
Cooling Equipment Assembly Kawasaki FH680V–AS21	25
Electric Equipment Assembly Kawasaki FH680V–AS21	26
Control Equipment Assembly Kawasaki FH680V–AS21	27
Carburetor Assembly Kawasaki FH680V–AS21	28
Lubrication Equipment Assembly Kawasaki FH680V–AS21	29
Air Filter and Muffler Assembly Kawasaki FH680V–AS21	30
Fuel Tank/Fuel Valve Assembly Kawasaki FH680V–AS21	31
Starter Assembly Kawasaki FH680V–AS21 ...	32
Label Assembly Kawasaki FH680V–AS21	33

Accessories

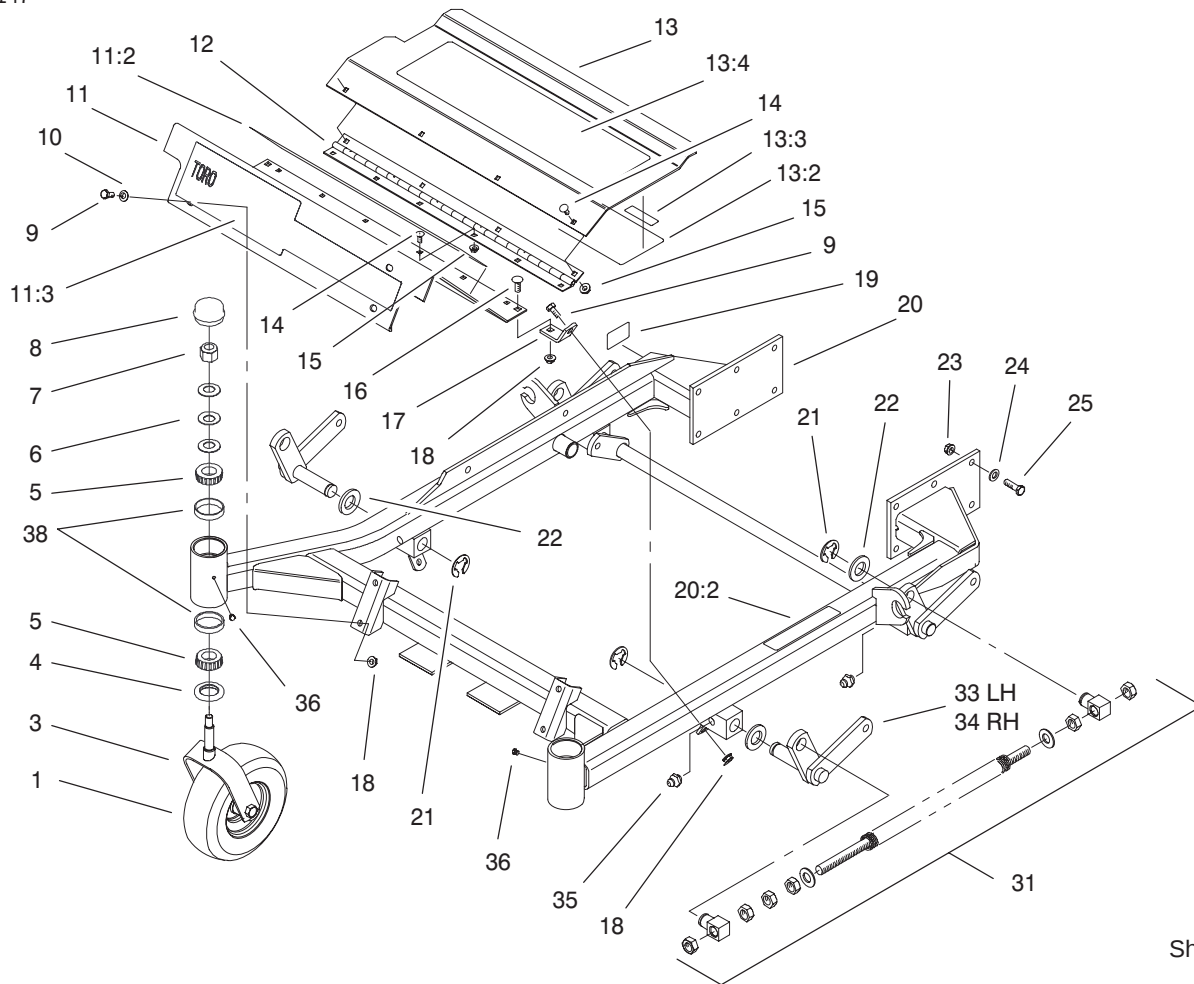
Description	Model / Part No.
Recycler Kit	59225
Bahaia Mulch Kit	59227
High Sail Blades (3 required for improved bagging)	56–2390
Atomic Blades (3 required for improved mulching)	104–1301

Description	Model / Part No.
Steel Bagger	30107
Striping Kit	30121
High Suspension Seat	99–8522
Z–Stand Kit	105–1621
Hitch Kit	99–8924

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

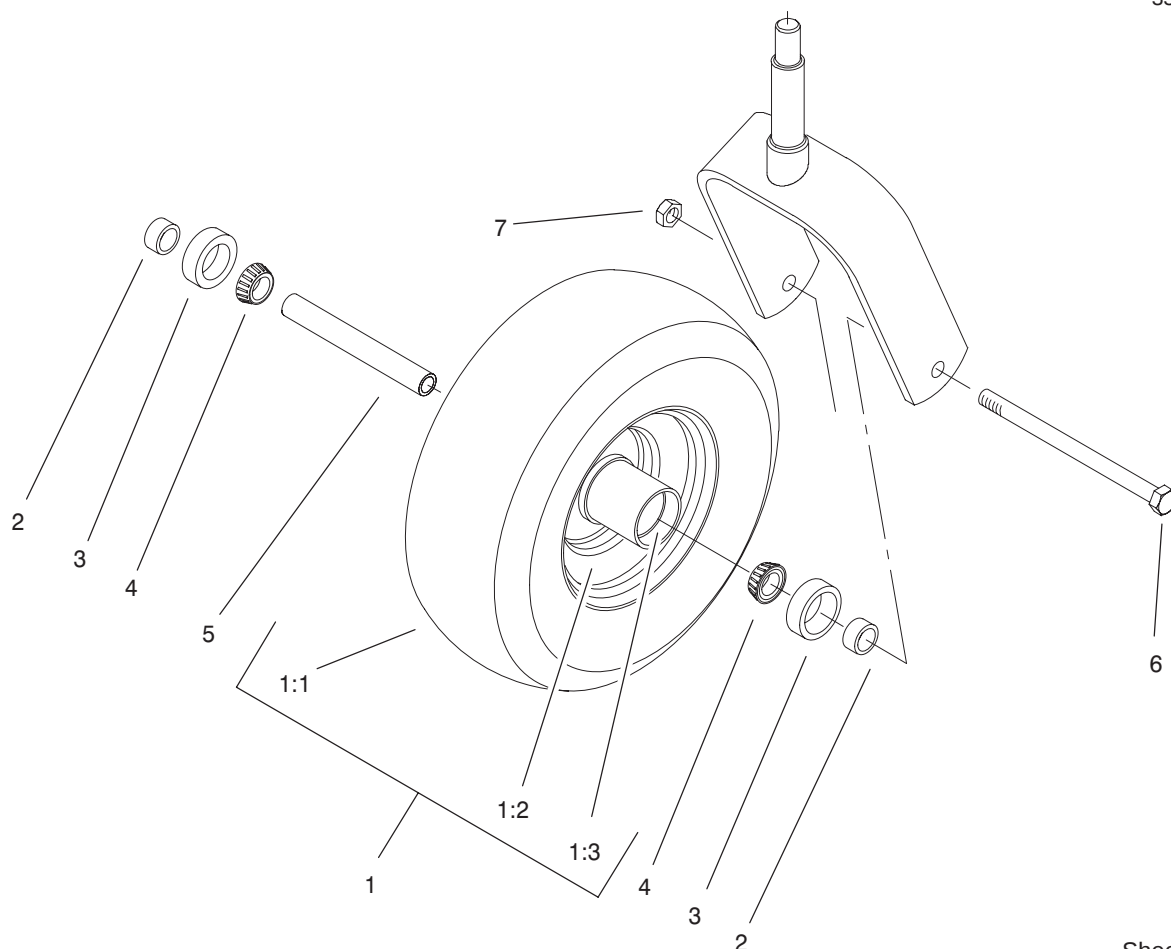


Sheet No.:2

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	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
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-Safety STD
20	99-3931	1	Front Frame ASM
20:2	1-633818	1	Decal-Warning
21	32151-103	6	Ring-Snap

Ref. No.	Part No.	Qty.	Description
22	3256-29	6	Washer-Flat
23	3290-357	12	Nut-HHF
24	98-5975	12	Washer-Bellville
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

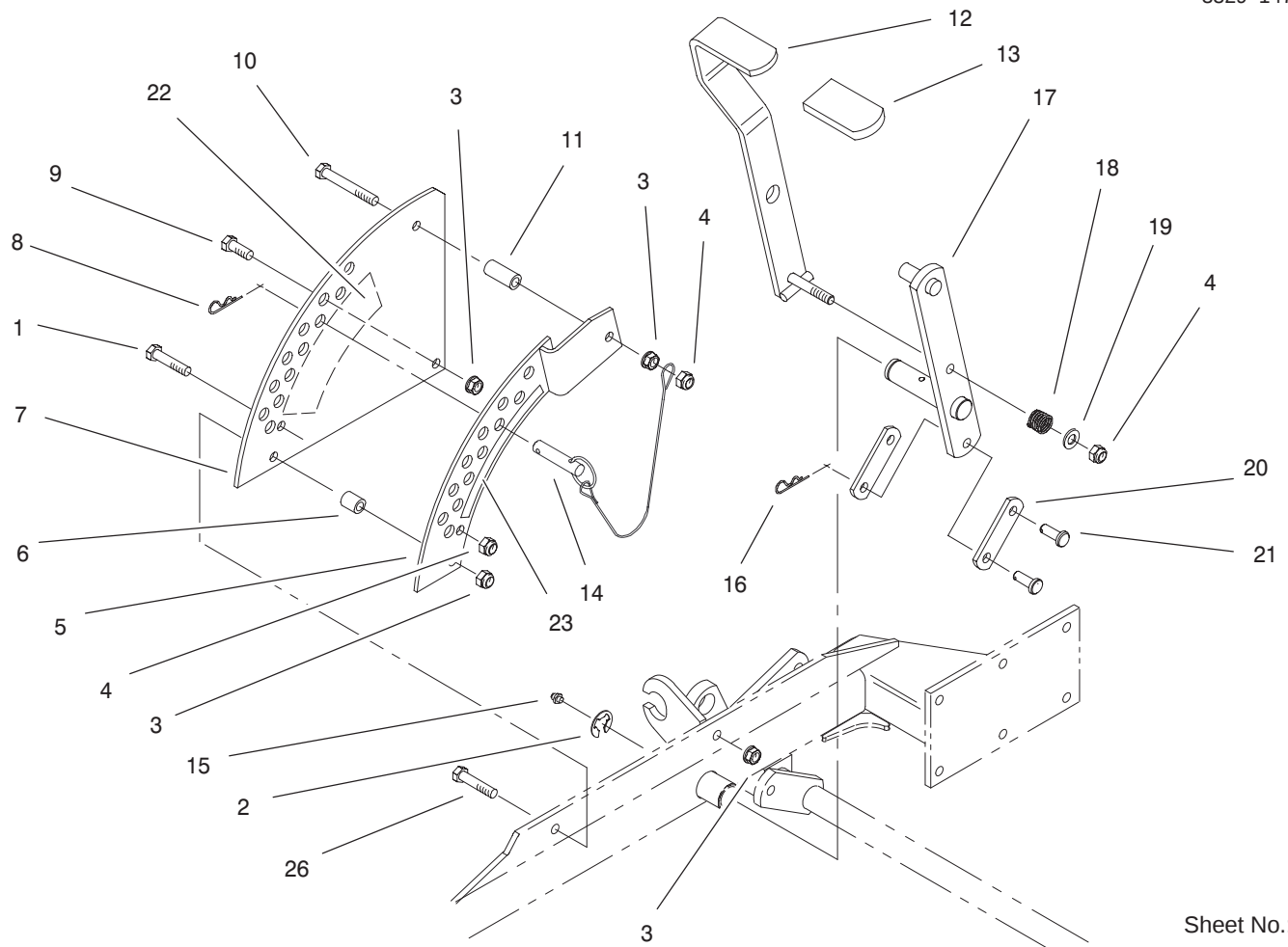


Sheet No.:A1
C-3038

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

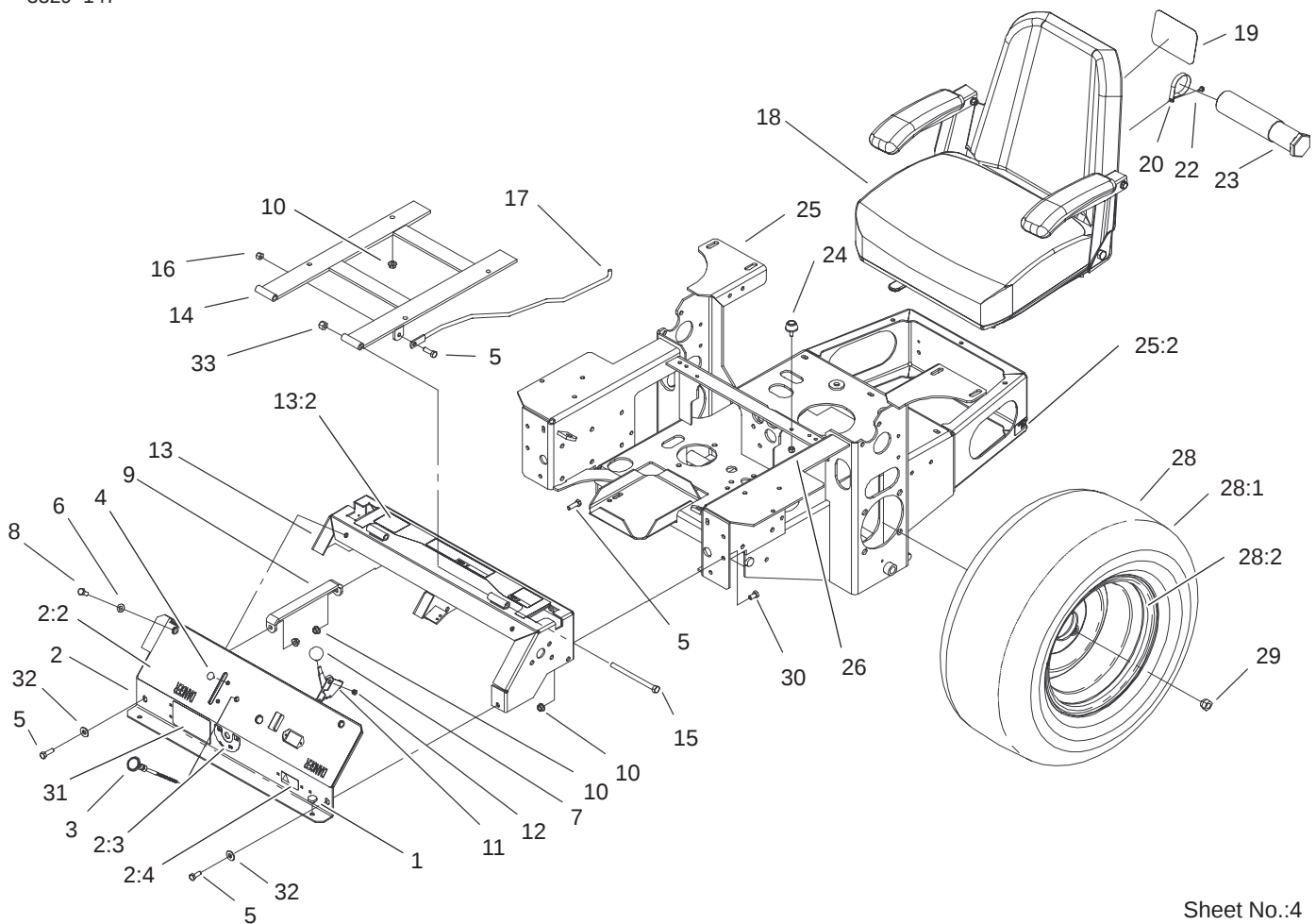


Sheet No.:3

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	3	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	1-806003	2	Pin-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
26	323-8	1	Screw-HH

Ref. No.	Part No.	Qty.	Description

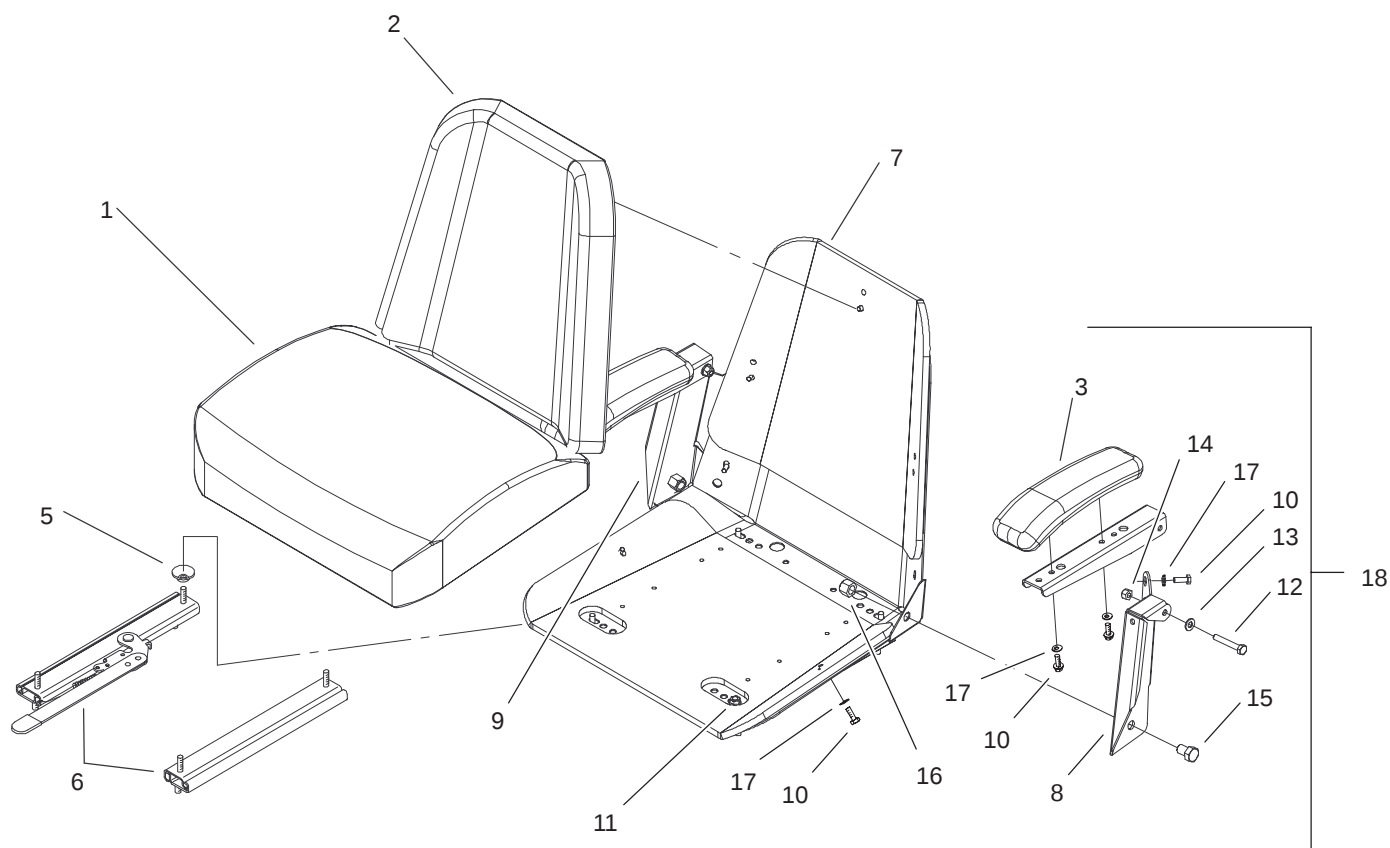


Sheet No.:4

Main Frame Assembly

Ref. No.	Part No.	Qty.	Description
1	1-513658	2	Bumper-Catcher, Grass
2	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
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-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	1-633705	1	Seat ASM
19	99-4693	1	Decal-Toro
20	2412-120	2	R-Clamp
22	32104-76	2	Screw

Ref. No.	Part No.	Qty.	Description
23	74-0720	1	Tube-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
28	1-653159	2	Wheel And Tire ASM
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	100-3969	1	Decal-Z153
32	3256-3	2	Washer-Flat
33	3296-39	2	Nut-Lock, NI



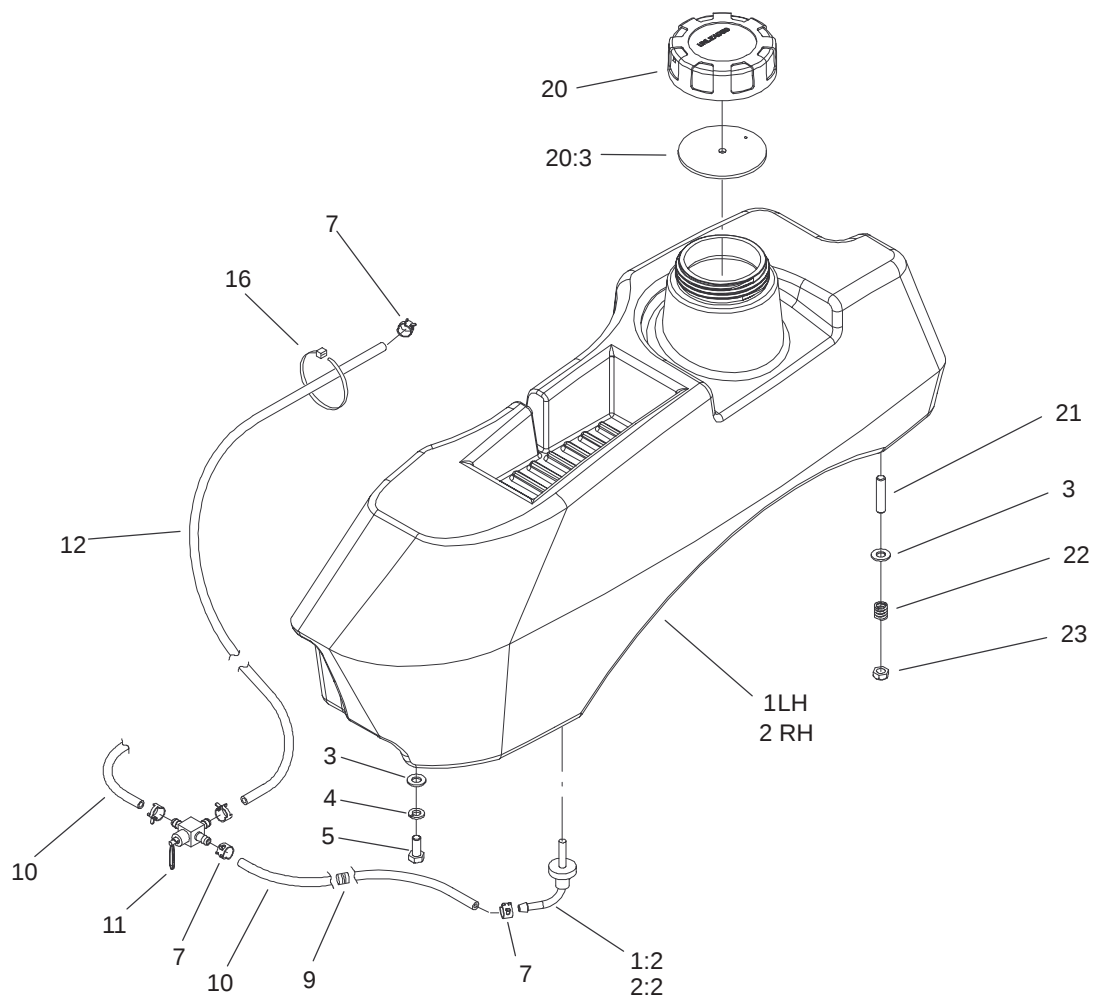
Sheet No.:A3

C-3037

Seat Assembly No. 1-633705

Ref. No.	Part No.	Qty.	Description
1	103-3521	1	Cushion,Seat Bottom
2	104-7754	1	Cushion-Seat, Back
3	1-633710	2	Cushion-Armrest
5	1-543401	4	Spacer-Track
6	1-643255	1	Track-Seat
7	1-633859	1	Frame-Seat
8	105-3622	1	Bracket-Armrest, LH
9	105-3621	1	Bracket-Armrest, RH
10	321-4	11	Screw-HH
11	32128-20	4	Nut-HF
12	322-10	2	Screw-HH
13	3256-23	4	Washer-Flat
14	3296-29	2	Nut-Lock, NI
15	325-2	2	Screw-HH
16	3296-23	2	Nut-Lock, NI
17	3256-22	11	Washer-Flat
18	105-3620	1	Armrest Kit

Ref. No.	Part No.	Qty.	Description

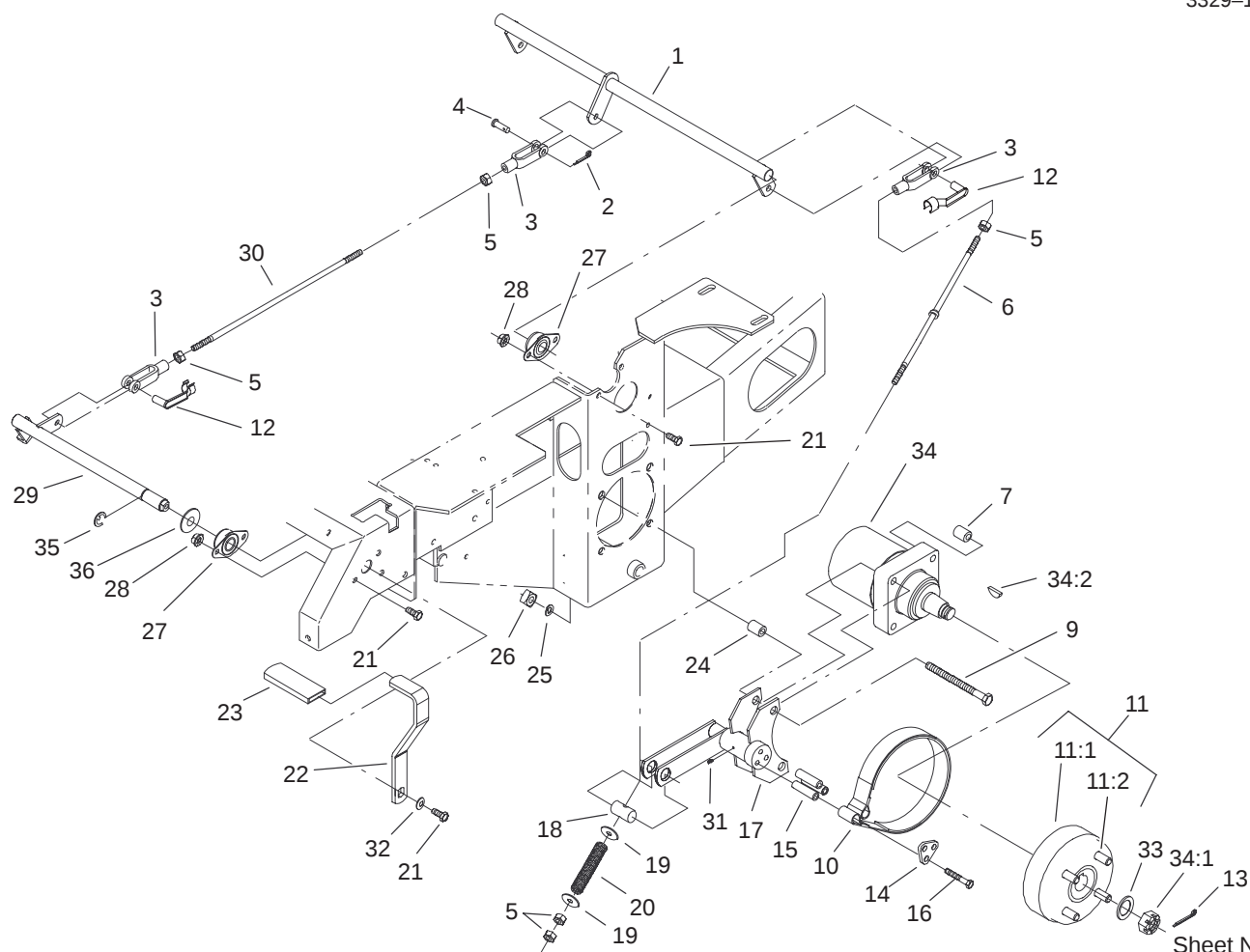


Sheet No.:5

Fuel System Assembly

Ref. No.	Part No.	Qty.	Description
1	105-3625	1	LH Fuel Tank ASM
1:2	103-2605	1	Fitting-Fuel, Bulkhead
2	105-3624	1	RH Fuel Tank ASM
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-Line, Fuel
9	1-543296	2	Grommet-Line, Fuel
10	1-543526	2	Hose-Fuel
11	1-633347	1	Valve-Fuel
12	103-0216	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

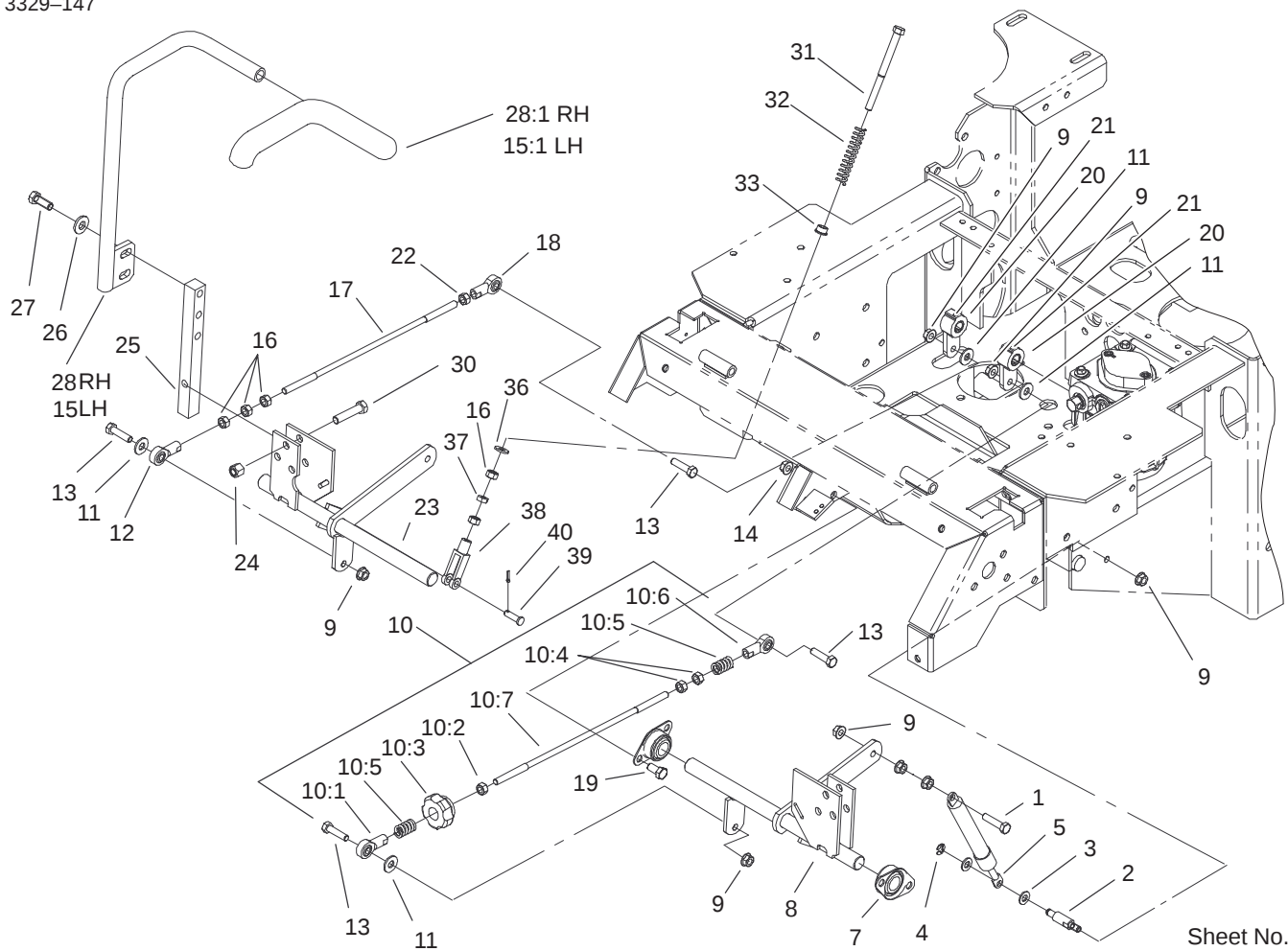


Sheet No.:6

Parking Brake System Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	1-652073-03	1	Crank-Brake, Park	26	103-0131	8	Nut-Square
2	3272-10	1	Pin-Cotter	27	1-633102	4	Bearing-Flange, Side
3	1-633131	4	Yoke-Linkage, Brake	28	3290-357	8	Nut-HHF
4	1-808285	1	Pin-Clevis	29	103-3116	1	Shaft-Brake, Parking
5	3219-3	8	Nut-HH	30	1-653061	1	Linkage-Handle, Brake
6	103-0356	2	Rod-Brake	31	1481	2	Fitting-Grease
7	1-653068	4	Spacer-Wheel	32	98-5975	1	Washer-Belleville
9	325-13	8	Screw-HH	33	1-523157	2	Washer-Spacer
10	103-0355	2	Band-Brake	34	1-523328	2	Motor-Wheel
11	103-0590	2	Hub-Wheel	34:1	1-809036	1	Nut-HH
11:1	103-0589	1	Hub-Wheel	34:2	3257-42	1	Key-Woodruff
11:2	1-633926	4	Stud-Wheel	*34:99	103-2748	1	Drive Link Kit
12	103-2399	3	Pin-Spring, Clevis	*34:99	1-000139	1	Bearing Kit
13	1-806800	2	Pin-Cotter	*34:99	1-000099	1	Seal Kit
14	103-0374	2	Retainer-Band, Brake	35	32151-48	1	E-Ring
15	103-0384	6	Spacer	36	3256-28	1	Washer-Flat
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				

* Not illustrated

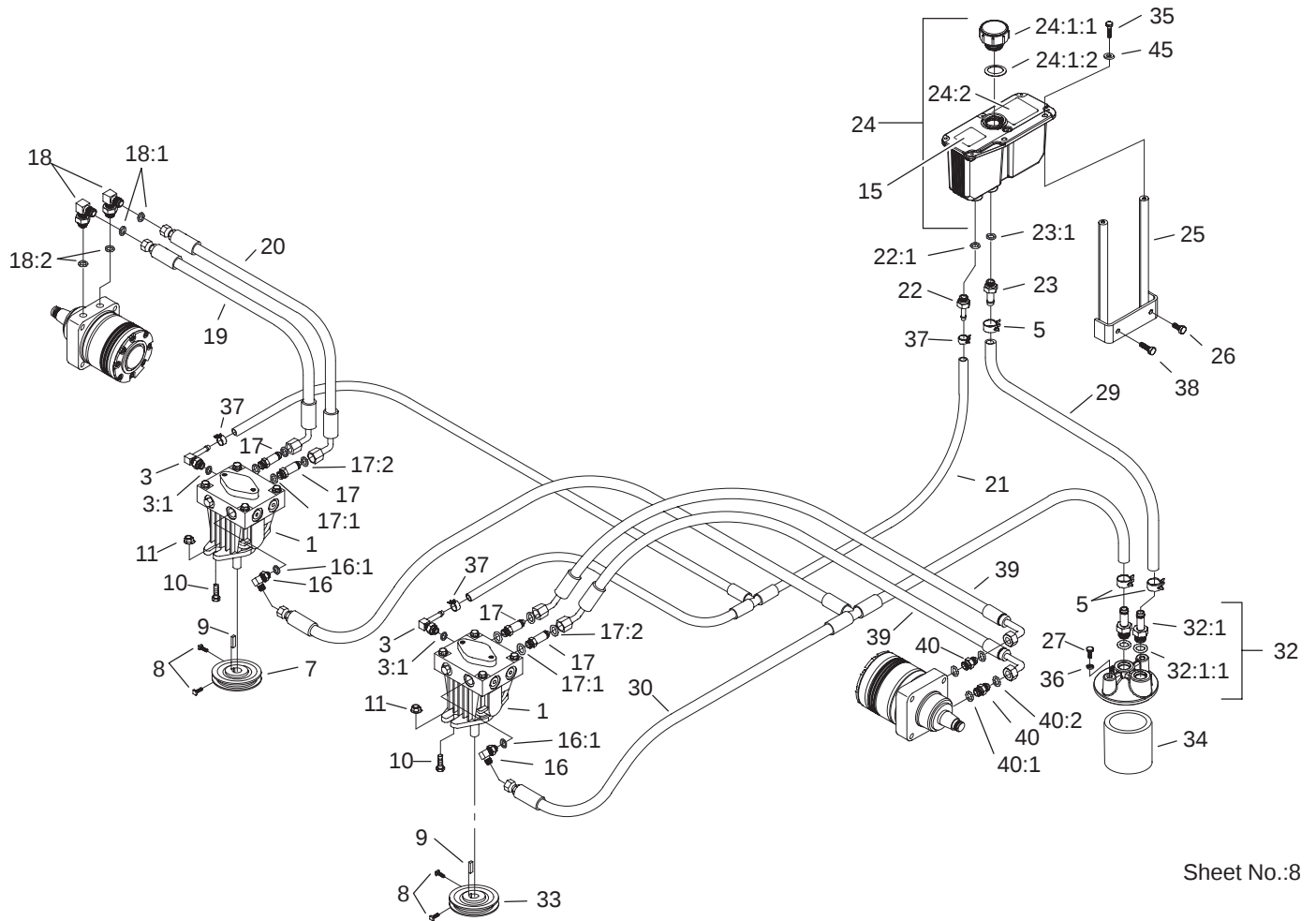


Sheet No.:7

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	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	1-653046	1	Linkage-Pump/Lever

Ref. No.	Part No.	Qty.	Description
18	1-633152	1	Balljoint-Thread, LH
19	323-4	8	Screw-HH
20	1-653092	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

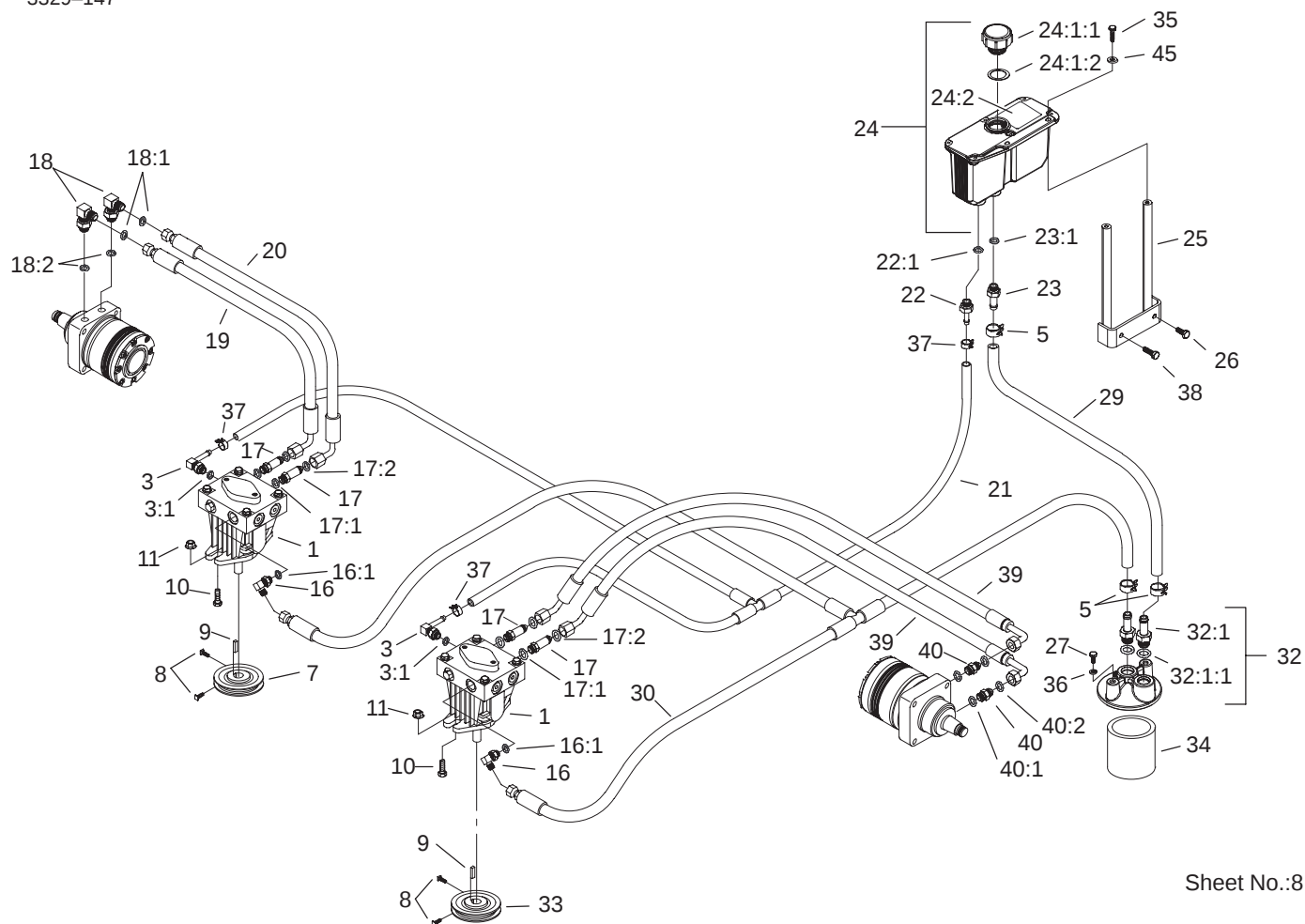
Hydraulic System Assembly

Ref. No.	Part No.	Qty.	Description
1	103-1942	2	Pump-Hydraulic
*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	103-2665	1	Thrust Bearing Kit
*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	1-413010	2	Sheave W/Hub
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	Elbow-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	Hydraulic 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	Hydraulic Hose ASM
30	103-2930	1	Hydraulic 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
37	103-1716	3	Clamp-Hose
39	103-1680	2	Hose-LH
40	1-603991	2	Fitting-Straight
40:1	237-80	1	O-Ring

* Not illustrated

★ Not serviced separately

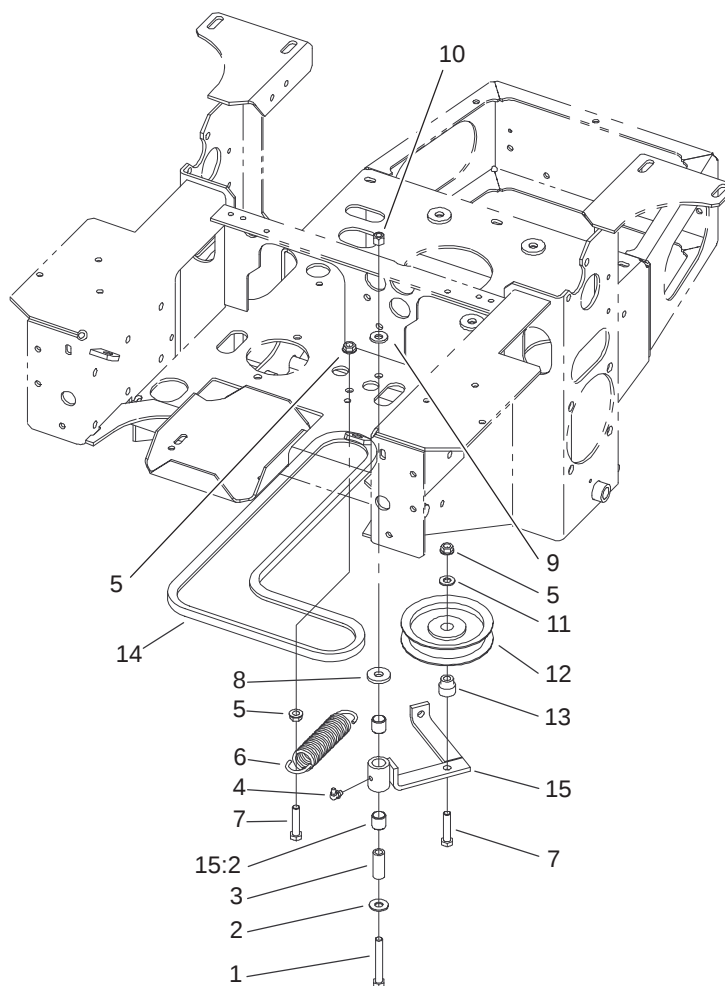


Sheet No.:8

Hydraulic System Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
40:2 45	1-603992 3256-22	1 2	O-Ring Washer-Flat

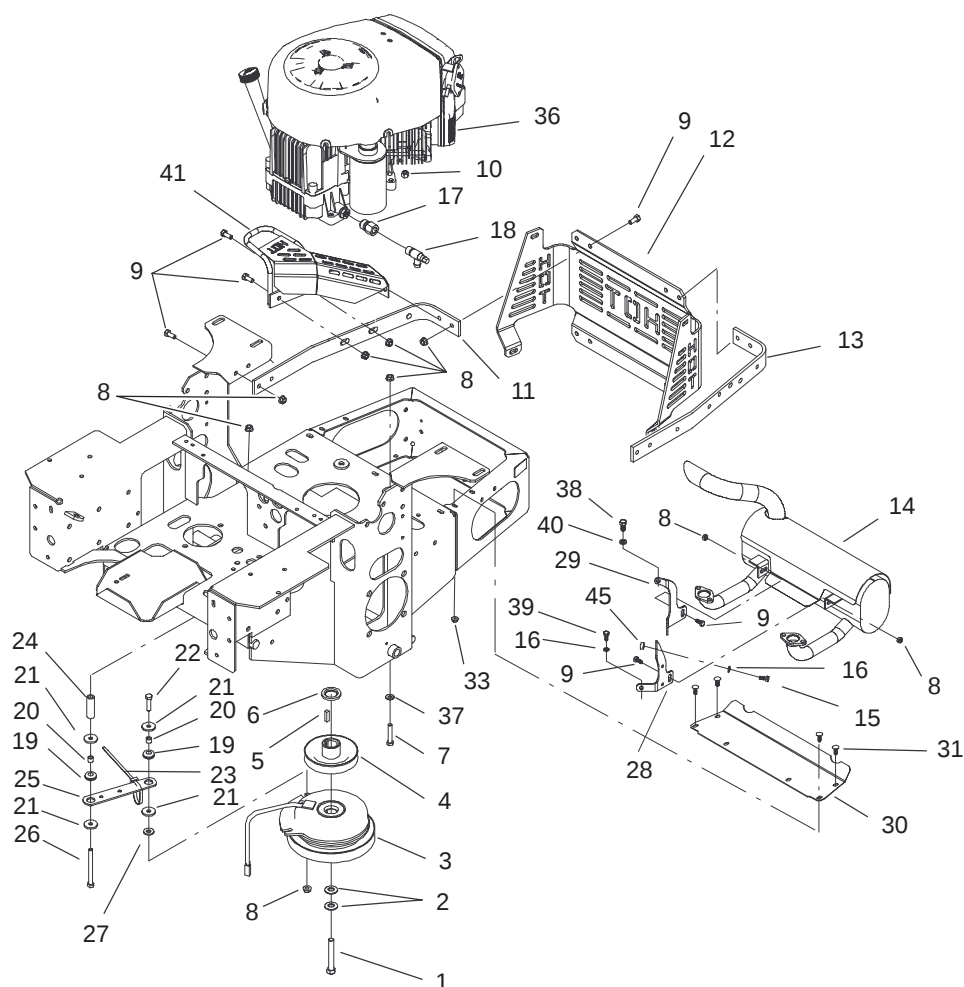
Ref. No.	Part No.	Qty.	Description



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	1-653580	1	Belt-Pump
15	1-654143	1	Idler Arm
15:2	1-513034	2	Sleeve-Bearing



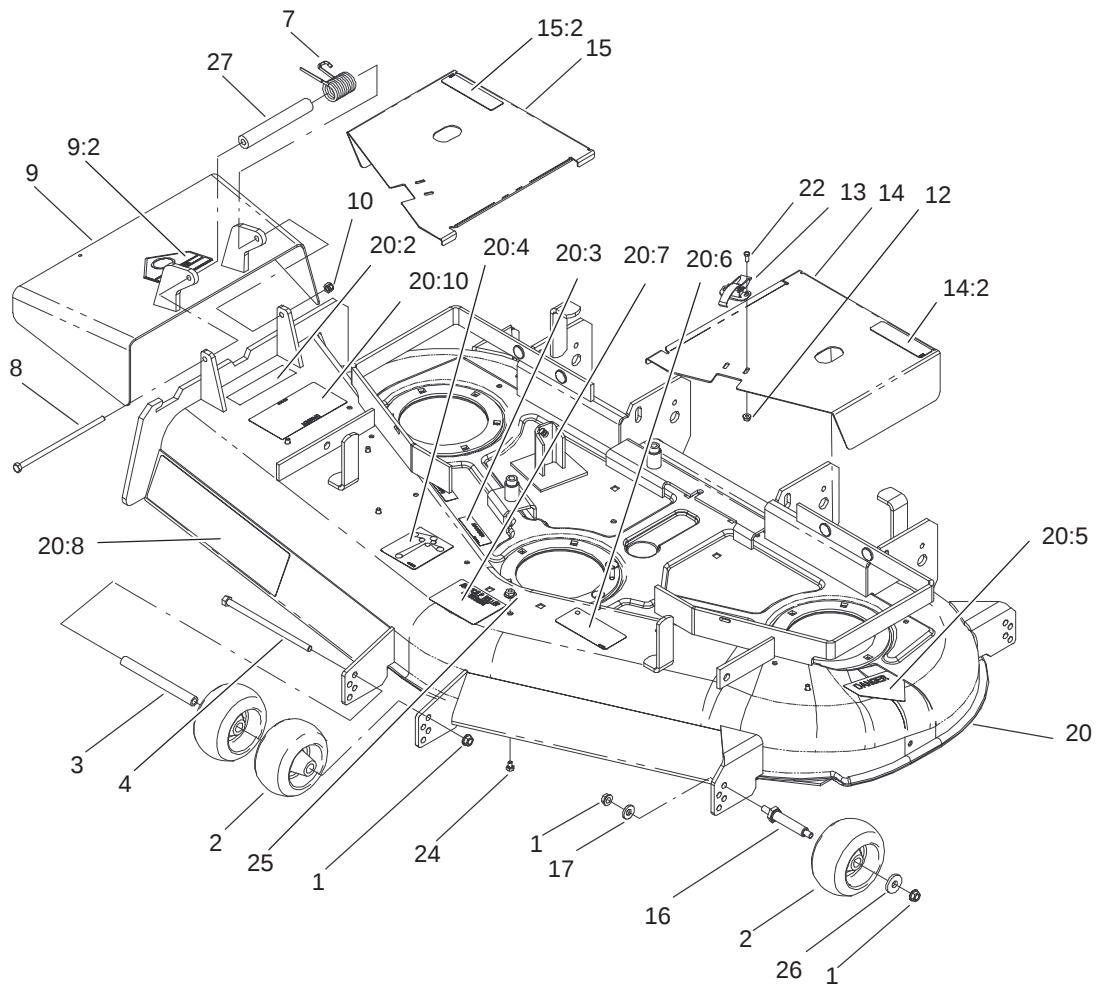
Sheet No.:10

Engine and Clutch Assembly

Ref. No.	Part No.	Qty.	Description
1	3212-12	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
6	103-2308	1	Spacer-Crankshaft
7	322-9	4	Screw-HH
8	32128-20	29	Nut-HF
9	322-3	23	Screw-HH
10	3296-29	4	Nut-Lock, NI
11	103-3078-03	1	Strap-Guard, Engine RH
12	103-3219-03	1	Guard-Rear, Lhp
13	103-3164-03	1	Strap-Guard, Engine LH
14	103-2761	1	Muffler
15	33113-025	1	Screw-HH
16	1-805004	3	Washer-Lock
17	103-1966	1	Adapter
18	103-1965	1	Valve-Drain, Oil
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

Ref. No.	Part No.	Qty.	Description
25	1-633543-03	1	Strap-Clutch, Brake
26	322-22	1	Screw-HH
27	3256-3	3	Washer-Flat
28	103-2993-03	1	Bracket-Muffler, LH
29	103-2994-03	1	Bracket-Muffler, RH
30	103-2740-03	1	Deflector-Short
31	3229-10	4	Screw-CARR
32	3256-23	4	Washer-Flat
33	32128-33	4	Nut-HF
☆36		1	Engine-Kawasaki, Fh680v
37	1-303334	2	Washer-Spring
38	33114-020	1	Screw-HH
39	33113-016	2	Screw-HH
40	1-805005	1	Washer-Lock
41	103-3218-03	1	Guard-Tailpipe
45	103-3096	1	Spacer

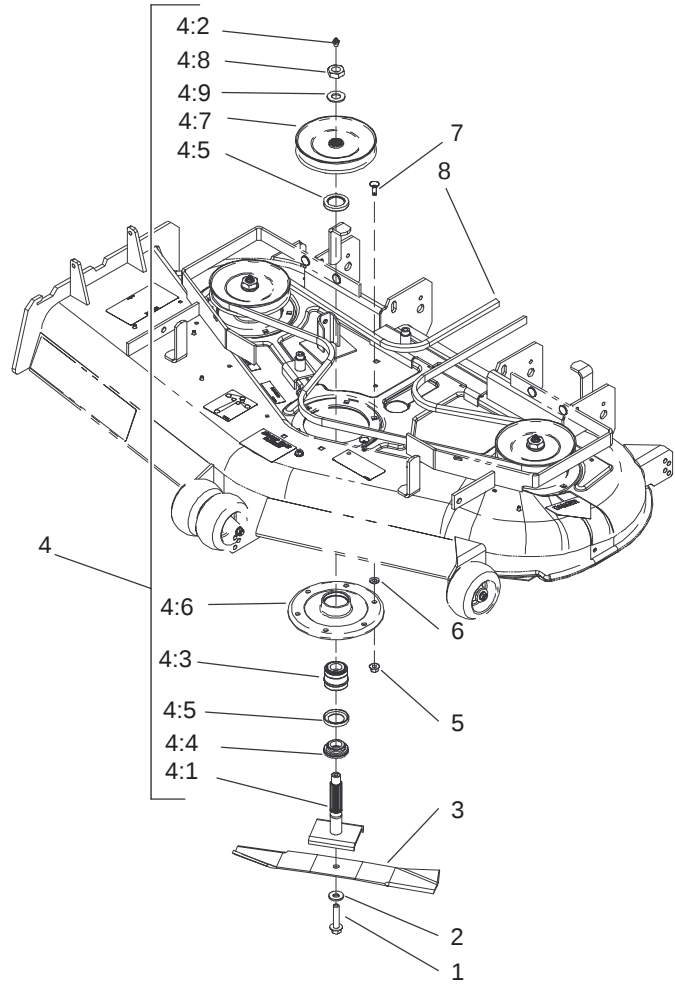
☆ Not serviced separately



Sheet No.:14

Deck Assembly

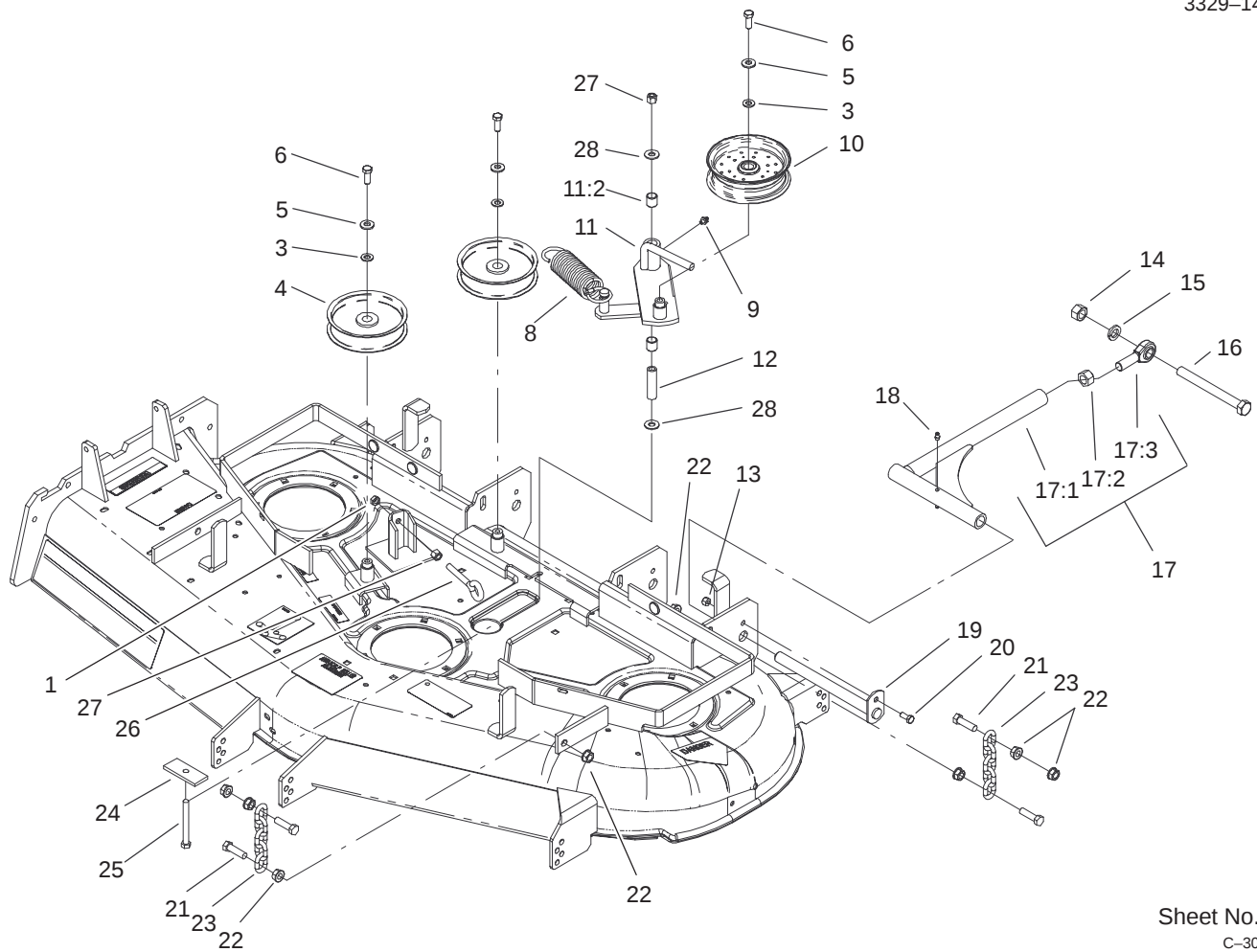
Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	3290-357	9	Nut-HHF	20:8	98-5953	1	Decal-Sfs
2	68-2730	6	Wheel-Gage	20:10	66-1340	1	Decal-Danger
3	98-5967	1	Spacer	22	3290-321	4	Screw-HWH
4	323-28	1	Screw-HH	24	321-1	6	Screw-HH
7	104-8554	1	Spring-Torsion	25	32128-33	6	Nut-HF
8	322-50	1	Screw-HH	26	1-373034	4	Washer
9	105-4623	1	Deflector ASM	27	105-4622	1	Spacer
9:2	93-1122	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				
17	98-5975	4	Washer-Belleville				
20		1	Z100/52" Deck ASM W/Decals				
20:2	104-8569	1	Decal-Warning				
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 Bolt				
20:7	98-3798	1	Decal-Wheel, Gage				



Sheet No.:15

Deck Spindle Assembly

Ref. No.	Part No.	Qty.	Description	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				
4:5	253-139	2	Seal-Oil				
4:6	61-4160	1	Housing				
4:7	100-3970	1	Pulley And Hub ASM				
4:8	32146-20	1	Nut-Jam				
4:9	7-4150	1	Washer				
5	32128-21	18	Nut-HF				
6	3256-24	6	Washer-Flat				
7	3231-22	18	Screw-CARR				
8	99-3904	1	Belt-Deck				

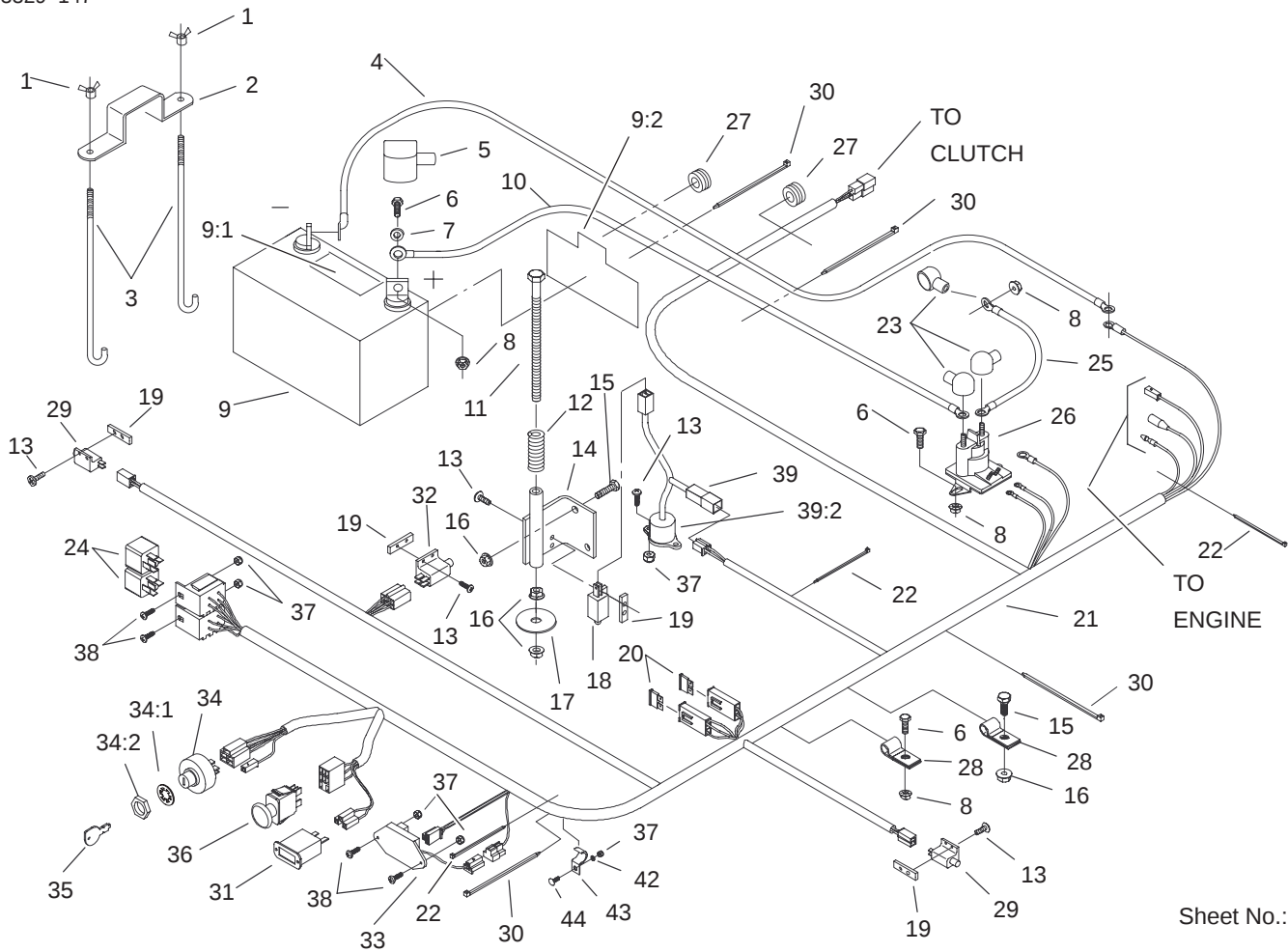


Sheet No.:16

C-3040

Idler, Pulley/Lift Strut, Chain Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	3217-7	1	Nut-Hex	25	1-800805	1	Screw-HH
3	3256-24	3	Washer-Flat	26	94-2547	1	Bolt-Eye
4	1-613098	2	Pulley-Idler	27	3296-39	2	Nut-Lock, NI
5	98-5975	3	Washer-Belleville	28	1-809107	2	Washer-Hardened
6	323-6	3	Screw-HH				
8	103-3330	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				

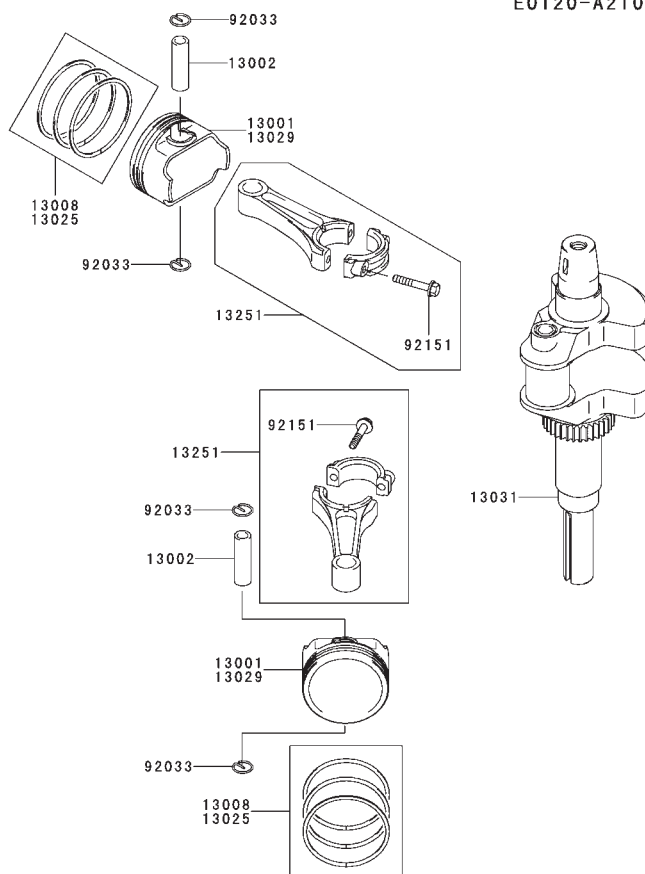


Sheet No.:19

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	103-0705	1	Cable-Ground, Negative
5	1-543391	1	Insulator-Battery
6	321-4	5	Screw-HH
7	3256-2	2	Washer-Flat
8	32128-33	6	Nut-HF
9	105-1692	1	Battery
9:1	104-4163	1	Decal-Battery
9:2	104-4164	1	Decal-Battery
10	103-0707	1	Cable-Battery, Positive
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	103-0623	1	Harness-Wire

Ref. No.	Part No.	Qty.	Description
22	1-303287	3	Tie-Plastic
23	1-543393	3	Insulator-Solenoid
24	1-643275	2	Relay
25	1-633306	1	Wire-Starter
26	1-513075	1	Switch-Solenoid
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
38	1-807513	4	Bolt-CARR
39	1-644427	1	Tilt Switch ASM
39:2	1-643401	1	Decal-Switch, Mercury
42	3256-14	1	Washer-Flat
43	103-1193	1	Clip-Half, Loom
44	1-807533	1	Bolt-CARR



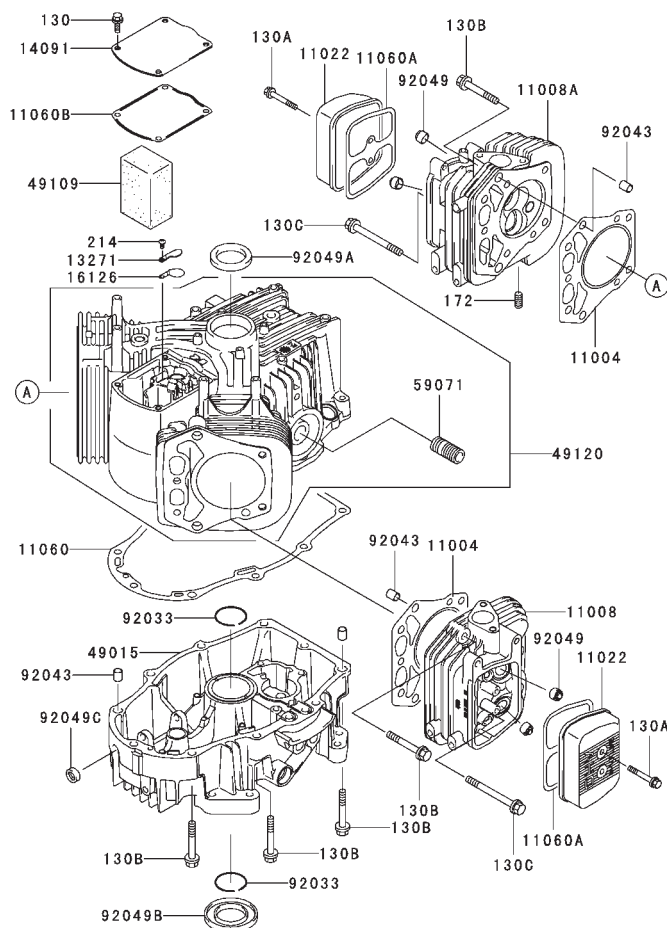
Piston/Crankshaft Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
13001	13001-7007	2	Piston-Engine
13002	13002-7001	2	Pin-Piston
13008	13008-6058	2	Ring-Set-Piston
13025	13025-7002	A/R	Ring-Set, Piston L,0.50
13029	13029-7003	A/R	Piston-Engine L,0.50
13031	13031-7023	1	Crankshaft-Comp
13251	13251-7005	2	Rod-Assy-Connecting
92033	92033-7005	4	Ring-Snap
92151	92151-7017	4	Bolt

Ref. No.	Part No.	Qty.	Description

Obtain Parts from Kawasaki

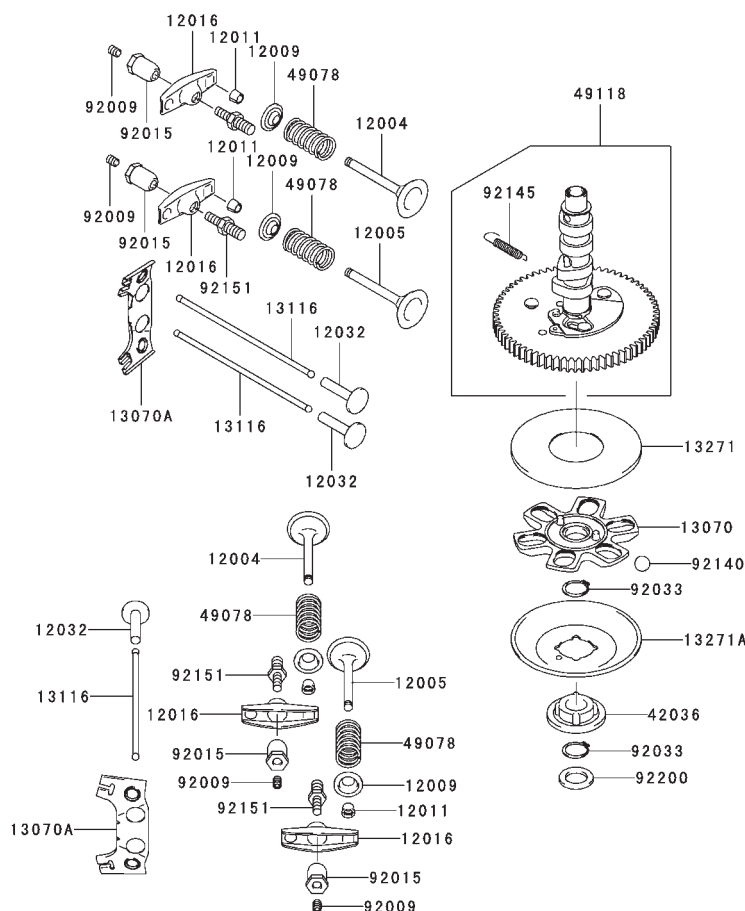
E0110-A395A



Cylinder/Crankcase Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
11004	11004-7006	2	Gasket-Head	130C	130T0875	2	Bolt-Flanged
11008	11008-7012	1	Head-Comp-Cylinder	172	172G0818	4	Bolt-Stud
11008A	11008-7013	1	Head-Comp-Cylinder	214	214B0408	1	Screw-Pan
			No. 1				
11022	11022-7002	2	Case-Rocker				
11060	11060-7012	1	Gasket, Crankcase				
			Cover				
11060A	11060-7013	2	Gasket, Rocker Case				
11060B	11060-7014	1	Gasket, Breather				
13271	13271-7006	1	Plate				
14091	14091-7004	1	Cover				
16126	16126-7001	1	Valve				
49015	49015-6225	1	Cover-Crankcase				
49109	49109-7003	1	Element-Breather				
49120	49120-7019	1	Crankcase-Comp				
59071	59071-2079	1	Joint				
92033	92033-7004	2	Ring-Snap				
92043	92043-7001	6	Pin				
92049	92049-7001	4	Seal-Oil				
92049A	92049-7002	1	Seal-Oil				
92049B	92049-7004	1	Seal-Oil				
92049C	92049-7005	1	Seal-Oil				
130	130B0612	4	Bolt-Flanged				
130A	130B0640	4	Bolt-Flanged				
130B	130T0850	18	Bolt-Flanged				

Obtain Parts from Kawasaki



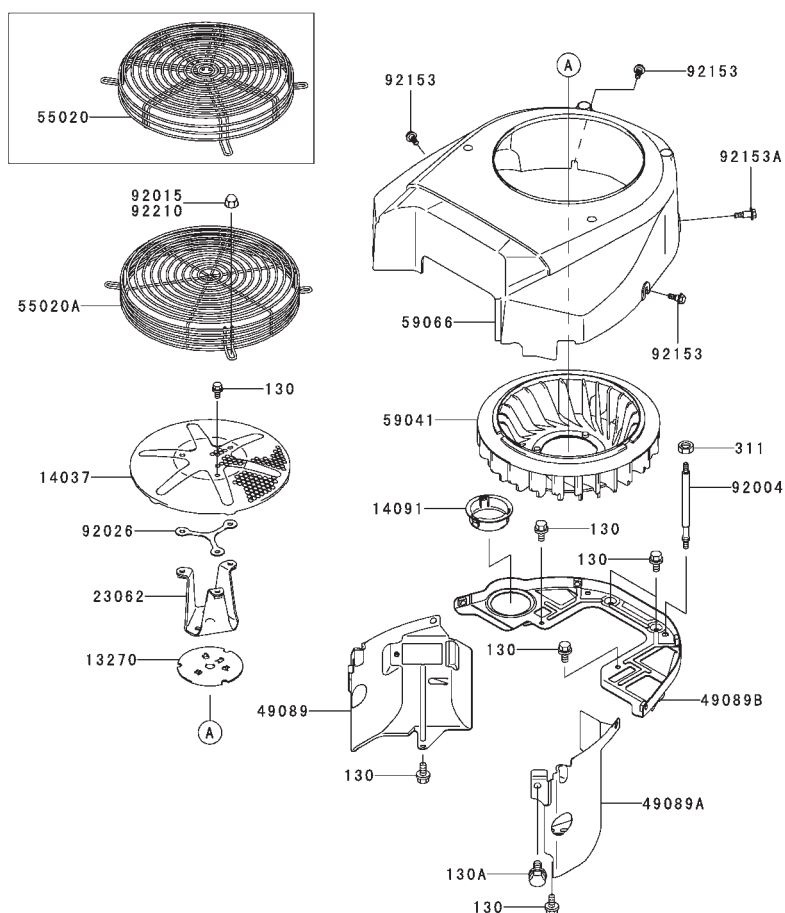
Valve/Camshaft Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
12004	12004-7002	2	Valve-Intake
12005	12005-7002	2	Valve-Exhaust
12009	12009-7001	4	Retainer-Valve Spring
12011	12011-2056	8	Collet
12016	12016-7006	4	Arm-Rocker
12032	12032-7001	4	Tappet
13070	13070-7004	1	Guide
13070A	13070-7007	2	Guide
13116	13116-7002	4	Rod-Push
13271	13270-7007	1	Plate
13271A	13271-7021	1	Plate-Governor
42036	42036-7001	1	Sleeve
49078	49078-7002	4	Spring-Engine Valve
49118	49118-7007	1	Camshaft-Comp
92009	92009-2341	4	Screw
92015	92015-2253	4	Nut
92033	92033-7001	2	Ring-Snap
92140	92140-7002	6	Ball
92145	92145-7001	1	Spring
92151	92151-7019	4	Bolt
92200	92200-7001	1	Washer

Ref. No.	Part No.	Qty.	Description

Obtain Parts from Kawasaki

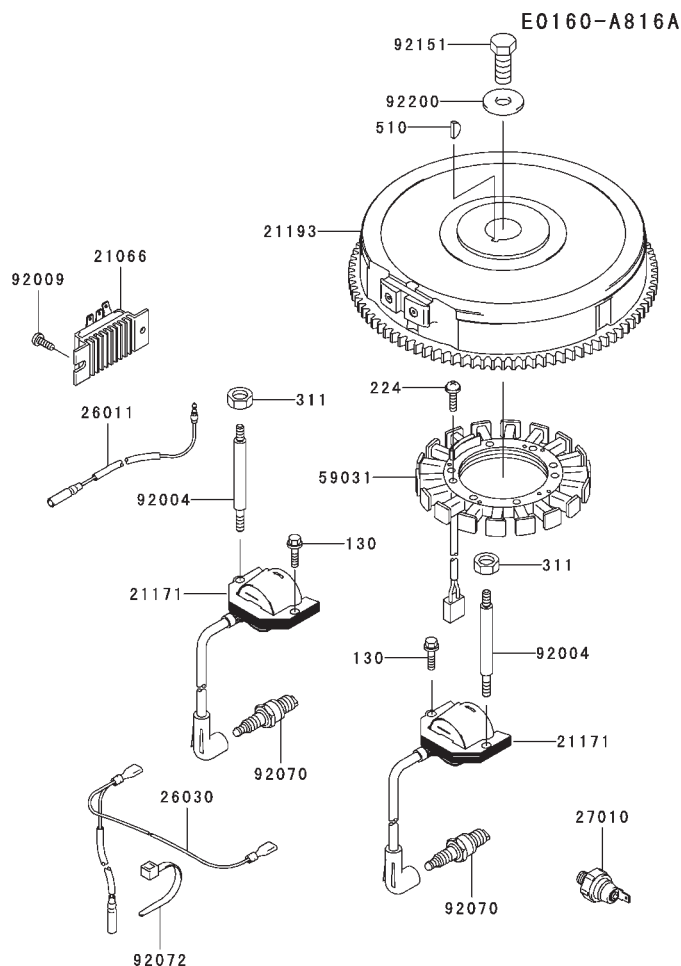
E0150-A486A



Cooling Equipment Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
13270	13270-7007	1	Plate
14037	14037-7008-9H	1	Screen
14091	14091-7002	1	Cover
23062	23062-7005	1	Bracket-Comp
49089	49089-7004	1	Shroud-Engine
49089A	49089-7005	1	Shroud-Engine
49089B	49089-7030	1	Shroud-Engine
55020	55020-7002	1	Guard
55020A	55020-7007	1	Guard
59041	59041-7003	1	Fan
59066	59066-7004	1	Housing-Fan
92004	92004-7006	2	Stud
92015	92015-1170	4	Nut
92026	92026-7007	AR	Spacer
92153	92153-7007	3	Bolt
92153A	92153-7008	1	Bolt
92210	92210-0003	4	Nut
130	130B0612	9	Bolt-Flanged
130A	130B0816	1	Bolt-Flanged
311	311B0600	2	Nut-Hex

Obtain Parts from Kawasaki



Electric Equipment Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
21066	21066-7006	1	Regulator-Voltage
21171	21171-7007	2	Coil-Assy-Ignition
21193	21193-7019	1	Flywheel-Assy
26011	26011-7008	1	Wire-Lead
26030	26030-7002	1	Harness
27010	27010-7001	1	Switch
59031	59031-7001	1	Coil-Charging
92004	92004-7009	2	Stud
92009	92009-2308	1	Screw
92070	92070-7004	2	Plug-Spark,BPR4ES (NGK), Solid
92072	92072-7003	2	Band
92151	92151-2097	1	Bolt, 12x30
92200	92200-7002	1	Washer
130	130B0620	2	Bolt-Flanged
224	224B0520	4	Screw-Pan-WP-Cros
311	311B0600	2	Nut-Hex
510	510A5100	1	Key-Woodruff

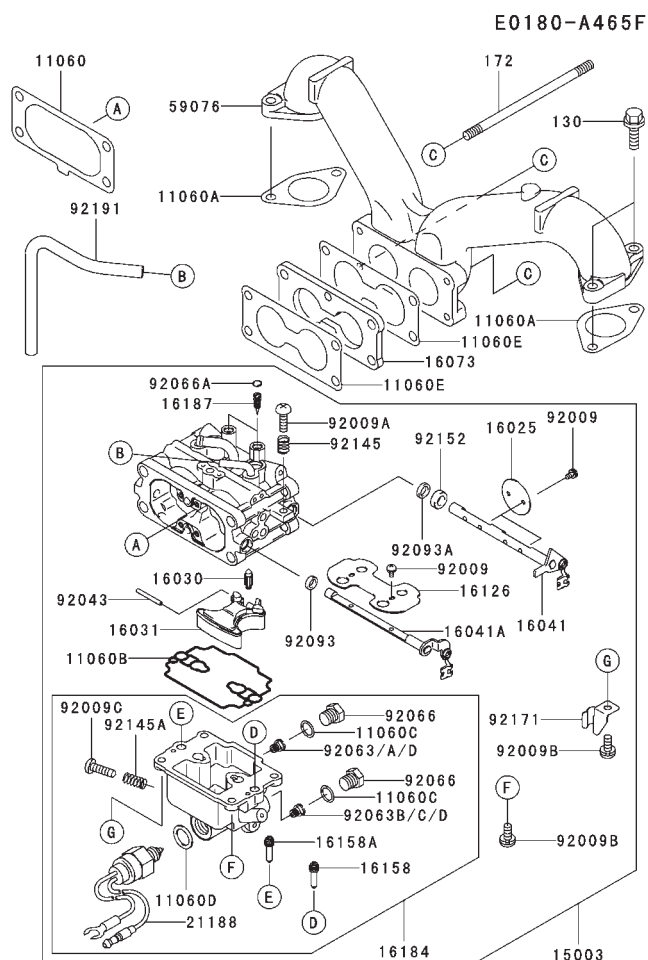
Ref. No.	Part No.	Qty.	Description

Obtain Parts from Kawasaki



Ref. No.	Part No.	Qty.	Description
1105 1	11051-7008	1	Bracket
13107	13107-7013	1	Shaft
13271	13271-7018	1	Plate
16169	16169-7006	1	Link-Choke
16171	16171-7004	1	Link
39129	39129-7004	1	Spring-Governor
49103	49103-7004	1	Arm-Governor
49113	49113-7017	1	Panel-Comp-Control
92145	92145-7004	1	Spring
92145A	92145-7005	1	Spring
92145B	92145-7009	1	Spring
92150	92150-2182	2	Bolt, 5x18
92151	92151-7014	1	Bolt, 5x30
92153	92153-7005	1	Bolt
92170	92170-7001	2	Clamp
130	130B0612	2	Bolt-Flanged
214	214B0408	2	Screw-Pan
214A	214B0412	1	Screw-Pan
214B	214B0510	1	Screw-Pan
311	311B0600	1	Nut-Hex
411	411B0600	1	Washer-Plain

27

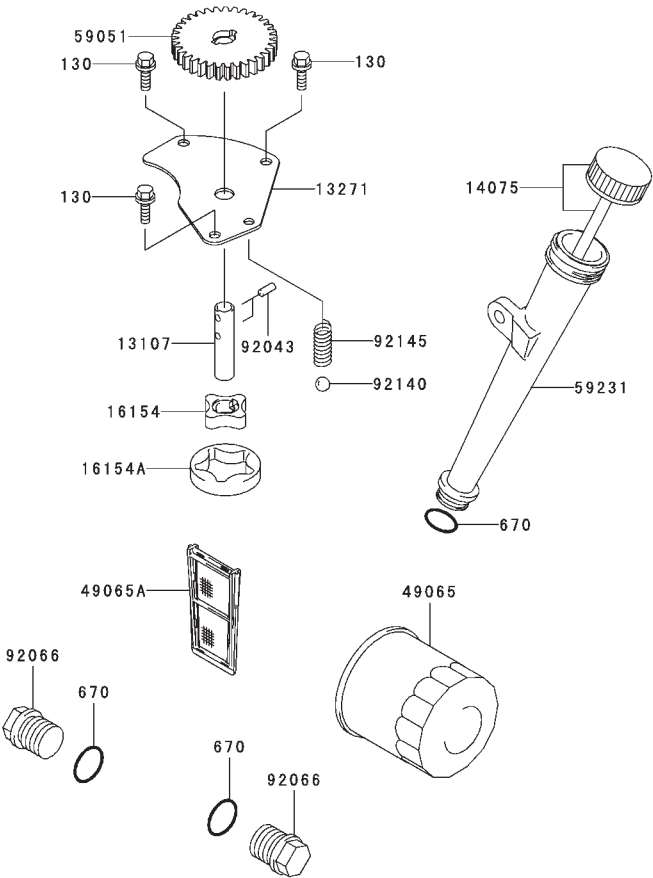


Carburetor Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
11060	11060-7009	1	Gasket, Air Filter
11060A	11060-7011	2	Gasket, Manifold
11060B	11060-7018	1	Gasket, Float Chamber
11060C	11060-7019	2	Gasket, Main Plug
11060D	11060-7020	1	Gasket, Solenoid
11060E	11060-7024	2	Gasket, Carburetor
15003	15003-7073	1	Carburetor-Assy
16025	16025-7003	2	Valve-Throttle
16030	16030-7002	1	Valve-Float
16031	16031-7001	1	Float
16041	16041-7004	1	Shaft-Carburetor
16041A	16041-7007	1	Shaft-Carburetor, Choke
16073	16073-7005	1	Insulator
16126	16126-7004	1	Valve, Choke
16158	16158-7007	1	Jet-Slow, #44
16158A	16158-7008	1	Jet-Slow, #42
16184	16184-7010	1	Chamber-Assy-Float
16187	16187-7002	2	Needle-Jet
21188	21188-7001	1	Solenoid
59076	59076-7002	1	Manifold-Intake
92009	92009-7003	6	Screw
92009A	92009-7004	1	Screw
92009B	92009-7005	4	Screw
92009C	92009-7006	1	Screw, Drain
92043	92043-7004	1	Pin-Float

Ref. No.	Part No.	Qty.	Description
92063	92063-7017	1	Jet-Main, #133
92063A	92063-7018	1	Jet-Main, #130
92063B	92063-7019	1	Jet-Main, #139
92063C	92063-7020	1	Jet-Main, #134
92063D	92063-7038	2	Jet-Main, #114
92066	92066-7008	2	Plug, Main Jet
92066A	92066-7009	2	Plug, Expansion
92093	92093-7001	1	Seal, D=5.9
92093A	92093-7002	1	Seal, D=6.9
92145	92145-7010	1	Spring
92145A	92145-7011	1	Spring
92152	92152-7001	1	Collar
92171	92171-7001	1	Clamp
92191	92191-7023	1	Tube
130	130B0620	4	Bolt-Flanged
172	172G06105	2	Bolt-Stud

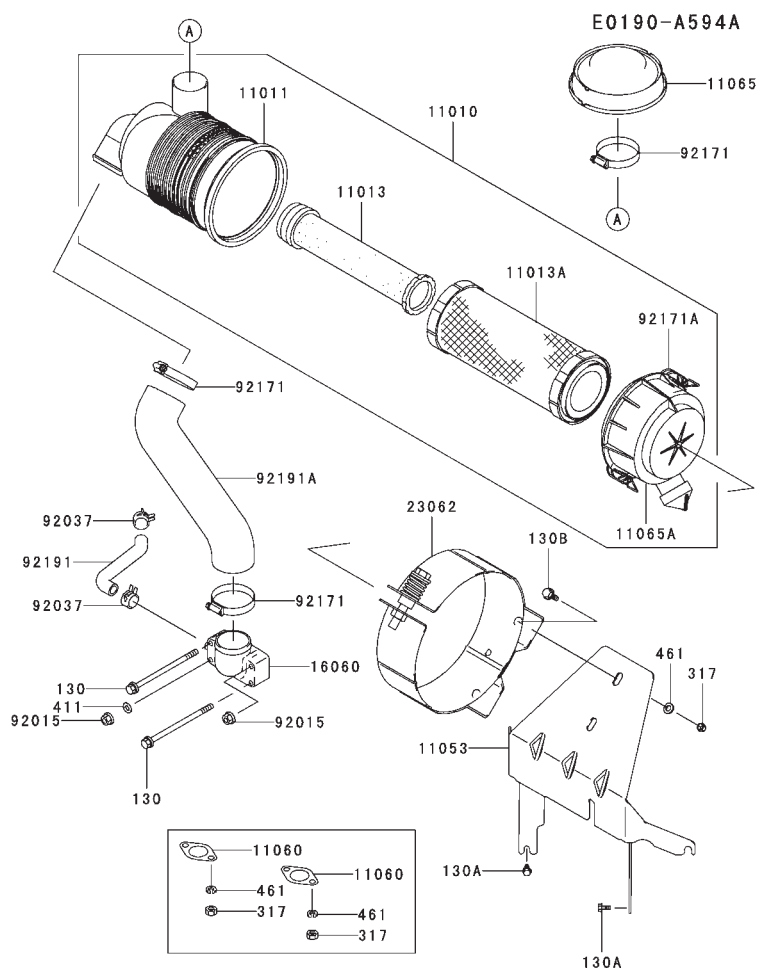
Obtain Parts from Kawasaki



**Lubrication Equipment Assembly
Kawasaki FH680V-AS21**

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
13107	13107-7009	1	Shaft				
13271	13271-7005	1	Plate				
14075	14075-7008	1	Cap-Assy				
16154	16154-2053	1	Rotor-Pump, In				
16154A	16154-2054	1	Rotor-Pump, Out				
49065	49065-2078	1	Filter-Oil				
49065A	49065-7003	1	Filter-Oil				
59051	59051-7011	1	Gear-Spur				
59231	59231-7002	1	Filler				
92043	92043-7006	2	Pin				
92066	92066-7003	2	Plug				
92140	92140-7003	1	Ball				
92145	92145-7002	1	Spring				
130	130B0612	3	Bolt-Flanged				
670	670D2016	3	O-Ring				

Obtain Parts from Kawasaki

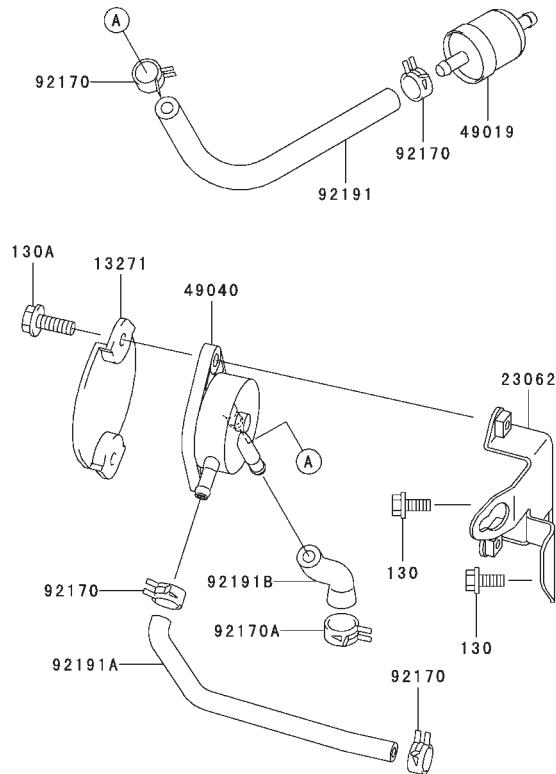


Air Filter and Muffler Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
11010	11010-7004	1	Filter-Assy-Air
11011	11011-7014	1	Case-Air Filter
11013	11013-7019	1	Element-Air Filter
11013A	11013-7020	1	Element-Air Filter
11060	11060-7016	2	Gasket, Muffler
11065	11065-7006	1	Cap
11065A	11065-7008	1	Cap
16060	16060-7005	1	Pipe-Intake
92015	92015-1193	2	Nut
92037	92037-2079	2	Clamp
92171	92171-7007	3	Clamp
92171A	92171-7009	2	Clamp
92191	92191-7006	1	Tube
92191A	92191-7028	1	Tube
130	130B06105	2	Bolt-Flanged
130A	130B0612	2	Bolt-Flanged
130B	130B0816	2	Bolt-Flanged
317	317R0800	6	Nut-Hex-Small
411	411B0600	1	Washer-Plain
461	461F0800	6	Washer-Spring

Ref. No.	Part No.	Qty.	Description

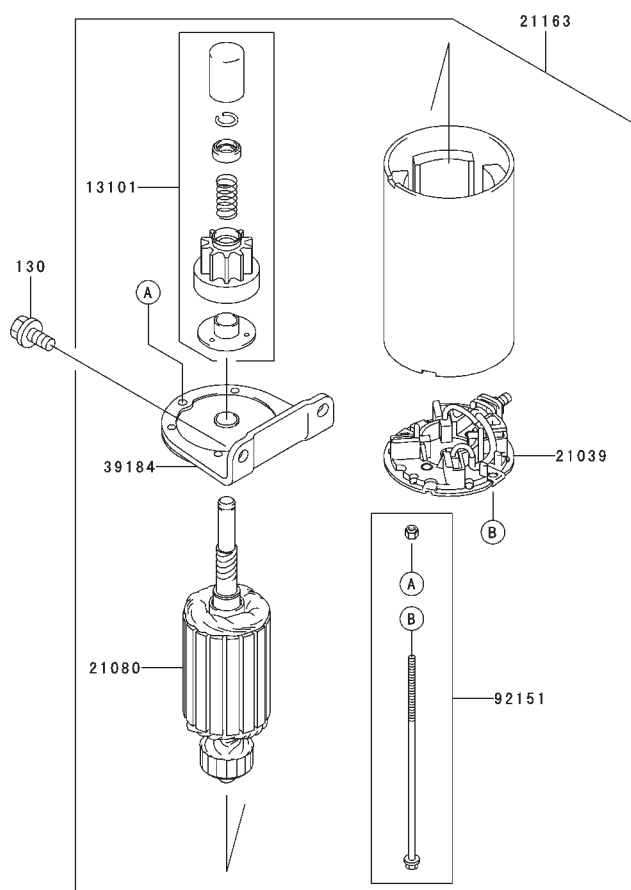
Obtain Parts from Kawasaki



Fuel Tank/Fuel Valve Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
13271	13271-7004	1	Plate				
23062	23062-7004-9H	1	Bracket-Comp				
49019	49019-7001	1	Filter-Fuel				
49040	49040-7001	1	Pump-Fuel				
92170	92170-2088	4	Clamp				
92170A	92170-7003	1	Clamp				
92191	92191-7003	1	Tube				
92191A	92191-7017	1	Tube				
92191B	92191-7027	1	Tube				
130	130B0616	2	Bolt-Flanged				
130A	130B0620	2	Bolt-Flanged				

Obtain Parts from Kawasaki

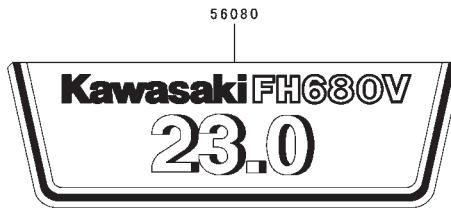


Starter Assembly Kawasaki FH680V-AS21

Ref. No.	Part No.	Qty.	Description
13101	13101-7001	1	Gear-Assy
21039	21039-7001	1	Brush
21080	21080-7001	1	Armature
21163	21163-7001	1	Starter-Electric
39184	39184-7001	1	Bracket-Assy
92151	92151-7013	1	Bolt
130	130B0816	2	Bolt-Flanged

Ref. No.	Part No.	Qty.	Description

Obtain Parts from Kawasaki



Ref. No.	Part No.	Qty.	Description
56033	56033-7002	1	Label-Manual
56080	56080-7009	1	Label-Brand

33

Maintenance Record

[illegible]

Maintenance Record

[illegible]

