



Z-Master

Z320 OFZ Traction Unit

Model No. 74180 – 890318 & Up

Parts Catalog

ORDERING REPLACEMENT PARTS

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

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Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

Important Format Explanations

This catalog uses special formats to convey information in illustrations and parts lists. Specifically, one format is used in conjunction with service assemblies and another with quantities associated with reference numbers.

Service Assemblies

Parts within service assemblies have reference numbers in the form $X:Y$. X is the reference number of the service assembly and Y is a sequential number unique to each part within the service assembly.

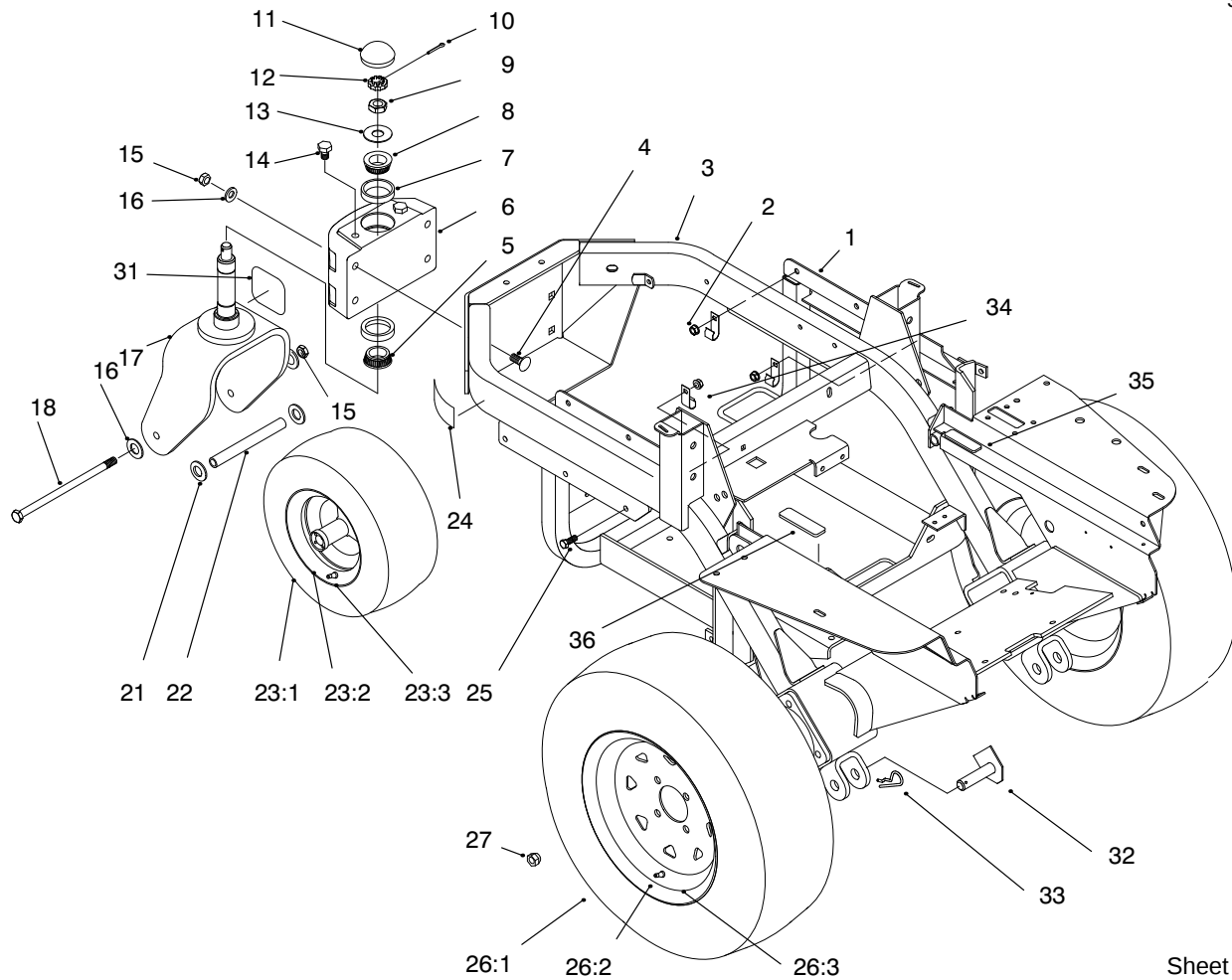
For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part individually.

Reference numbers of this type appear in part lists and as callouts in illustrations.

Reference Numbers with Quantities

Illustrations may have a quantity in parentheses next to a reference number, in the form $X (Y)$. X is the reference number. Y in parentheses is the quantity of the part identified by the reference number.

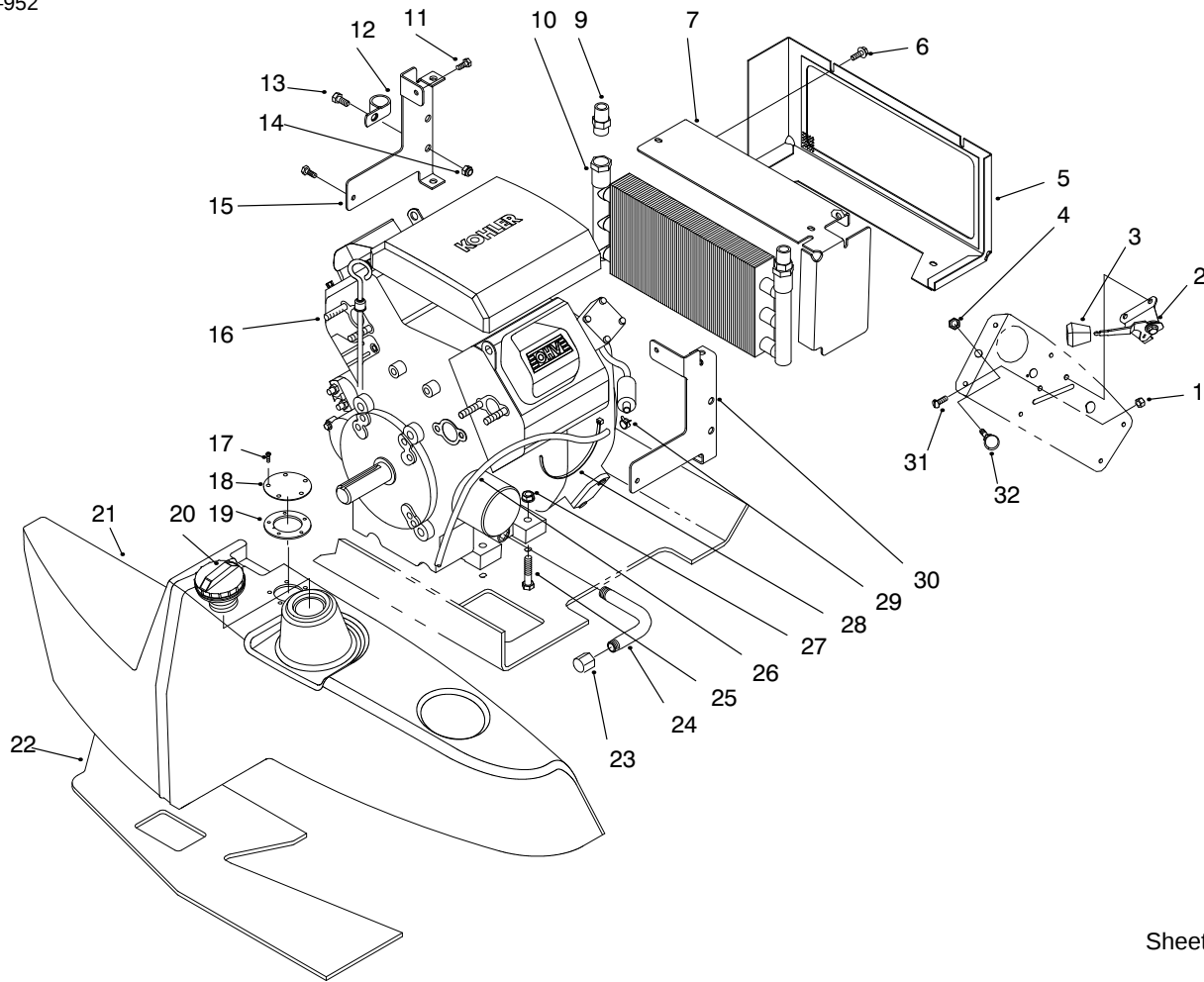
For example, the illustration callout 4 (2) indicates that two parts are used in that instance.



Sheet No.: 2

Frame & Wheels

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	94-4618-03	1	Support-Engine	24	93-9198	1	Decal-Warning
2	3296-39	6	Nut-Lock	25	323-6	6	Screw-HH
3	94-9598	1	Frame ASM	26:1	94-9387	2	Tire
4	3233-27	4	Screw-CARR	26:2	232-27	2	Valve Stem
5	254-70	1	Bearing w/Cone & Seal	26:3	94-9386	2	Wheel
6	94-9489-01	1	Housing-Spindle	27	242-50	8	Nut-Lug
7	254-61	2	Cup-Bearing	31	95-1956	1	Decal-Z320
8	254-62	1	Cone-Bearing	32	94-4755	2	Pivot Pin ASM
9	3220-7	1	Nut-Jam	33	3290-343	2	Pin-Cotter
10	3272-17	1	Pin-Cotter	34	8830	1	Retainer-"J"
11	94-4665	1	Dustcap	35	52-5260	2	Rubber Pad
12	93-0307	1	Nut-Lock	36	98-4361	1	Decal-Warning
13	3256-8	1	Washer-Flat				
14	325-2	2	Screw				
15	3296-23	5	Nut-Lock				
16	3256-26	6	Washer-Flat				
17	94-4647-01	1	Castor Fork				
18	325-24	1	Screw-HH				
19	98-4383	1	Decal-Patent Numbers				
21	3256-39	2	Washer-Flat				
22	94-4753	1	Tube-Spacer				
23:1	94-9384	1	Tire				
23:2	98-4351	1	Wheel ASM				
23:3	232-27	1	Valve Stem				

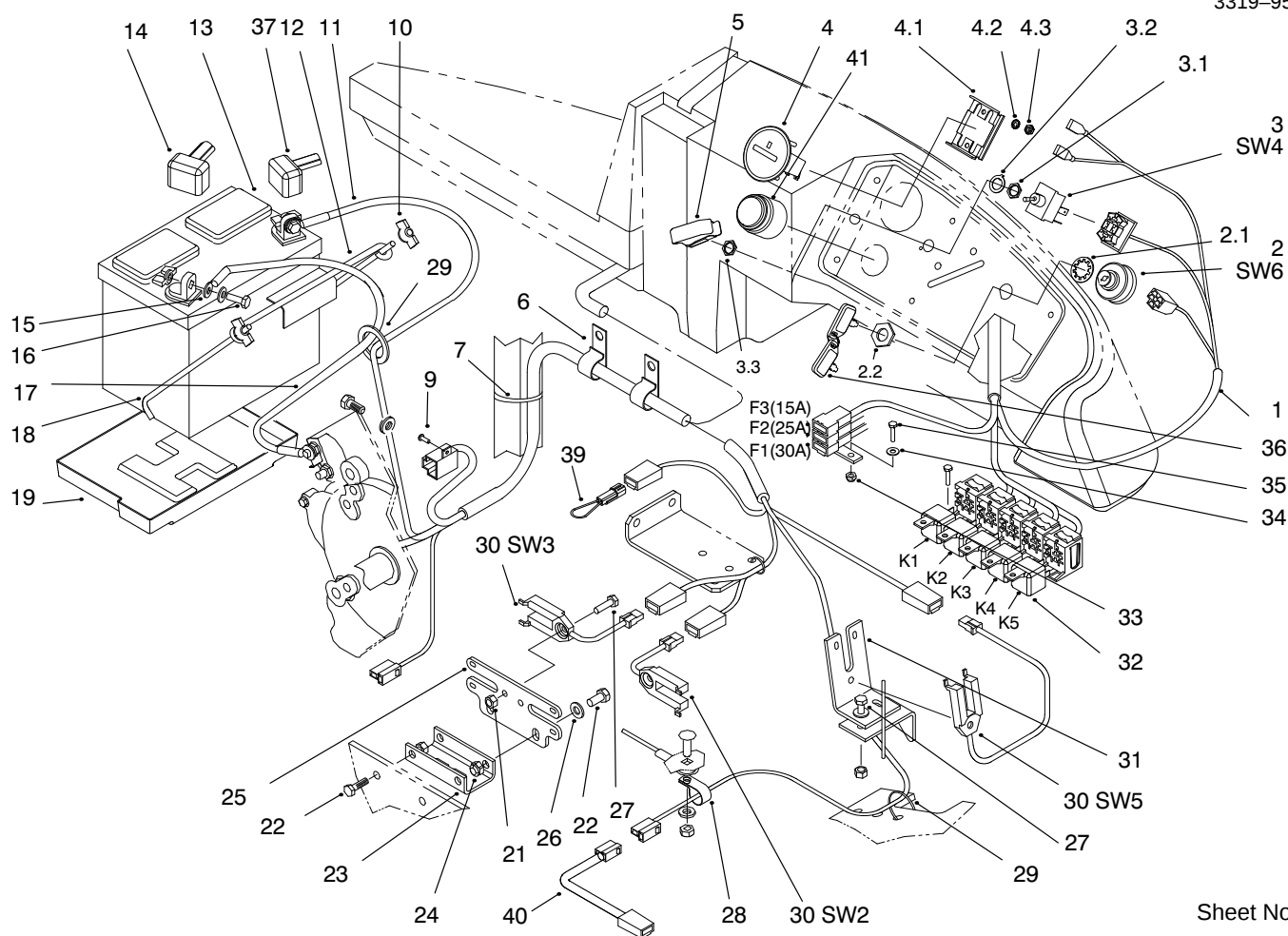


Sheet No.: 3

Engine & Fuel Tank

Ref. No.	Part No.	Qty.	Description
1	3296-42	2	Nut-Lock
2	98-4350	1	Control-Throttle
3	66-0120	1	Knob
4	3220-3	1	Nut-Hex Jam
5	94-9556-03	1	Cooler Shroud ASM
6	3234-4	6	Screw-HH
7	98-1969-03	1	Cooler Shroud ASM
9	93-5107	2	Fitting-Adapter
10	24-0760	1	Exchanger-Heat
11	32144-10	2	Screw-HH
12	2412-39	4	R-Clamp
13	322-3	4	Screw-HH
14	3296-29	4	Nut-Lock
15	98-1972-03	1	Bracket-Rear
16	94-9461	1	Engine Kohler Ch20
17	3250-29	5	Screw
18	94-9597-03	1	Cover-Fuel Tank Opening
19	62-7650	1	Gasket
20	93-3101	1	Gas Cap
21	94-9553	1	Fuel Tank ASM
22	98-1319	1	Foam-Tank
23	288-4	1	Cap-Pipe
24	94-9499	1	Tube-Oil Drain
25	323-9	4	Screw-HH
26	94-9502	1	Hose-Gas

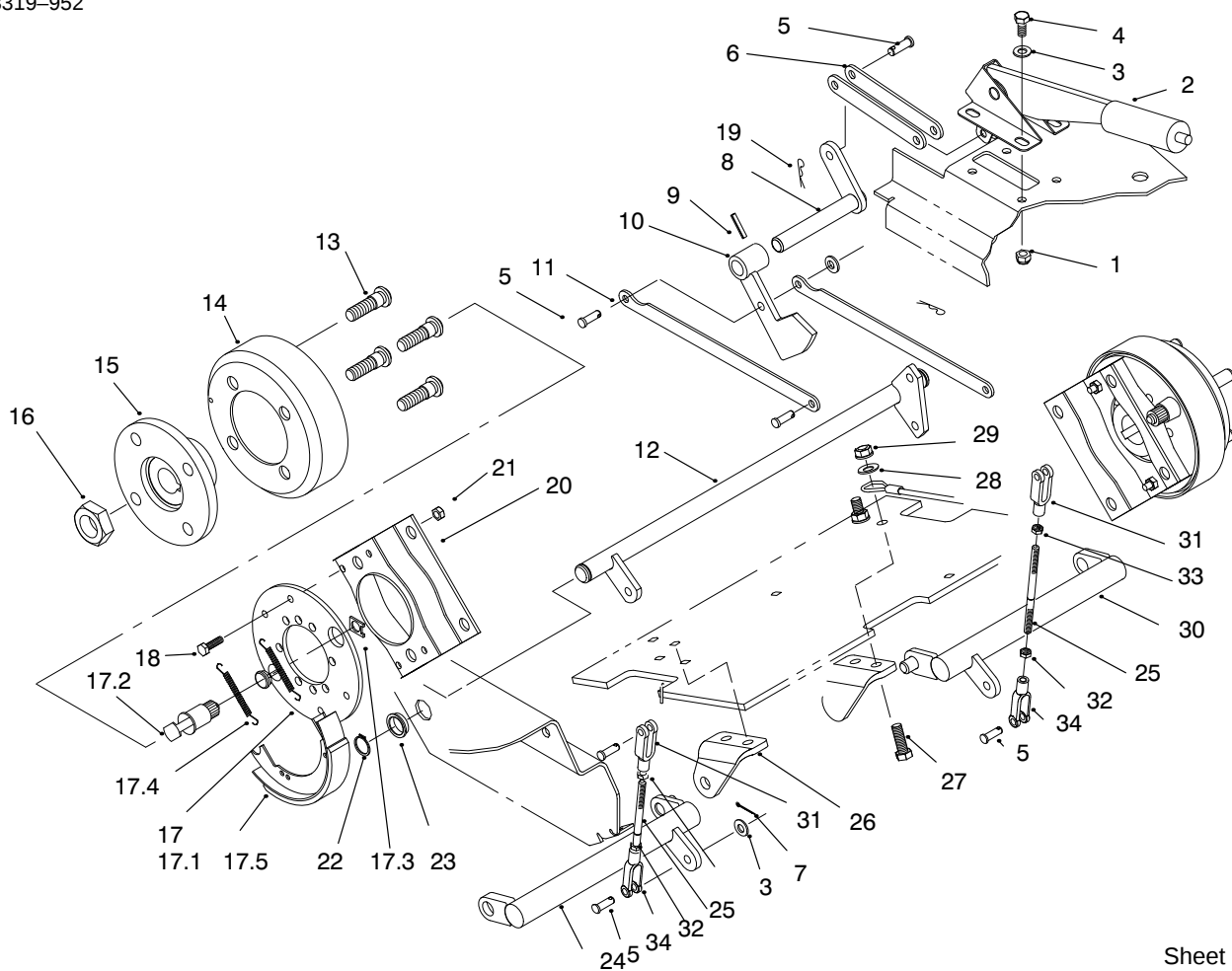
Ref. No.	Part No.	Qty.	Description
27	3296-39	4	Nut-Lock
28	3290-378	A/R	Tie-Cable
29	2412-98	2	Clamp-Hose
30	98-1971-03	1	Bracket-Front
31	3258-166	2	Screw
32	98-1956	1	Control-Push Pull



Sheet No.: 4

Electrical System

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-3317	1	Harness-Wire	19	106948	1	Tray-Battery
2	111216	1	Switch-Ignition	21	3296-42	5	Nut-Lock
2:1	101884	2	Nut-Hex	22	322-3	4	Screw-HH
2:2	9201604	1	Washer-Lock	23	94-4797-03	1	Channel-Mount Switch
3	92-9811	1	Switch-Toggle	24	3296-29	4	Nut-Lock
3:1	105805	1	Nut	25	94-9460	1	Plate-Switch Mount
3:2	102950	1	Washer	26	3256-23	2	Washer-Flat
3:3	113179	1	Nut	27	321-4	5	Screw-HH
4	78-0020	1	Hourmeter	28	2412-93	1	R-Clamp
4:1	78-3320	1	Clamp-Hour Meter	29	3290-378	A/R	Tie-Cable
4:2	3255-25	2	Washer-Lock	30	98-1324	3	Switch-Interrupter
4:3	3217-27	2	Nut-HH	31	94-4696	1	Angle-Mount
5	113050	1	Cover-Switch	32	116397	5	Relay
6	94-9580	2	Clamp-J	33	3296-2	3	Nut Lock
7	3290-379	A/R	Tie-Cable	34	3256-14	3	Washer-Flat
9	32144-74	2	Screw	35	32105-13	3	Screw-HH
10	32103-22	4	Nut-Wing	36	62-7770	2	Key-Ignition
11	92-6287	1	Wire-Ground	39	98-1982	1	Jumper
12	113010	1	Hold Down	40	98-4373	1	Harness-Adapter
13	94-1867	1	Battery				
13	94-6666	1	ASM-Battery/Decal				
14	28-8080	1	Boot-Terminal				
15	3256-22	4	Washer-Flat				
16	321-4	2	Screw-HH				
17	28-3893	1	ASM-Wire				
18	94-6146	2	Retainer-Battery				

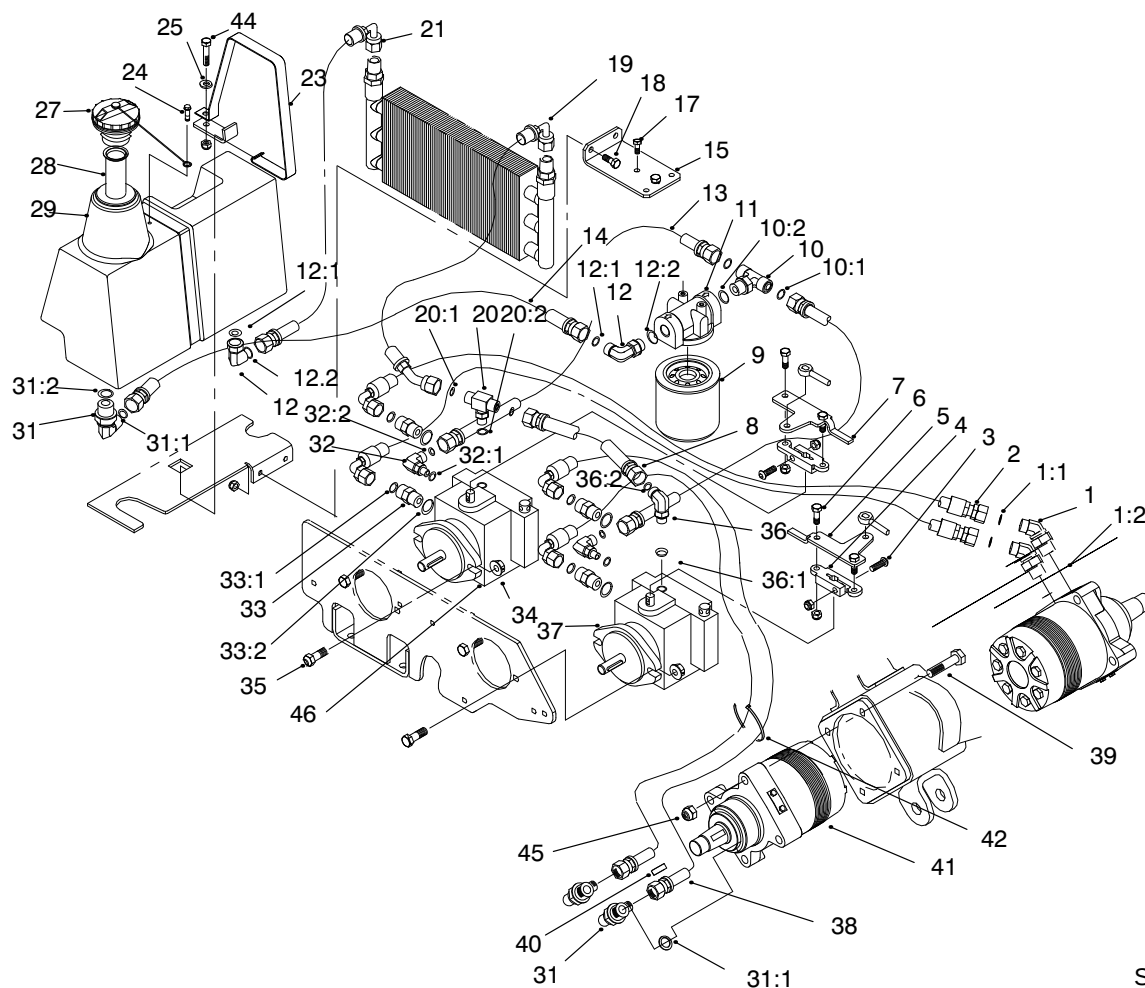


Sheet No.: 5

Parking Brake

Ref. No.	Part No.	Qty.	Description
1	3296-29	4	Nut-Lock
2	94-4602	1	Lever-Brake
3	3256-23	4	Washer-Flat
4	322-3	4	Screw-HH
5	283-1	8	Pin-Clevis
6	98-1992	2	Link-Brake
7	3272-10	2	Pin-Cotter
8	98-1990	1	Transfer Shaft ASM
9	32121-93	1	Pin-Spiral
10	98-1994	1	Brake Hub ASM
11	98-1991	2	Link-Connect
12	98-1988	1	Torsion Shaft ASM
13	85-6540	8	Stud
14	10-6850	2	Drum Brake
15	10-6870	2	Hub-Wheel
16	26-3790	2	Nut-Lock
17	71-1500	2	Brake ASM
17.1	70-9870	2	Plate-Backing
17.2	70-9860	2	Cam Shaft
17.4	70-9880	4	Spring-Return
17.5	70-9840	4	Brake Shoe
18	321-4	8	Screw-HH
19	3290-307	6	Pin-Cotter
20	84-2000	2	Bracket-Brake
21	3296-42	8	Nut-Lock
22	32120-72	2	Ring-Retaining

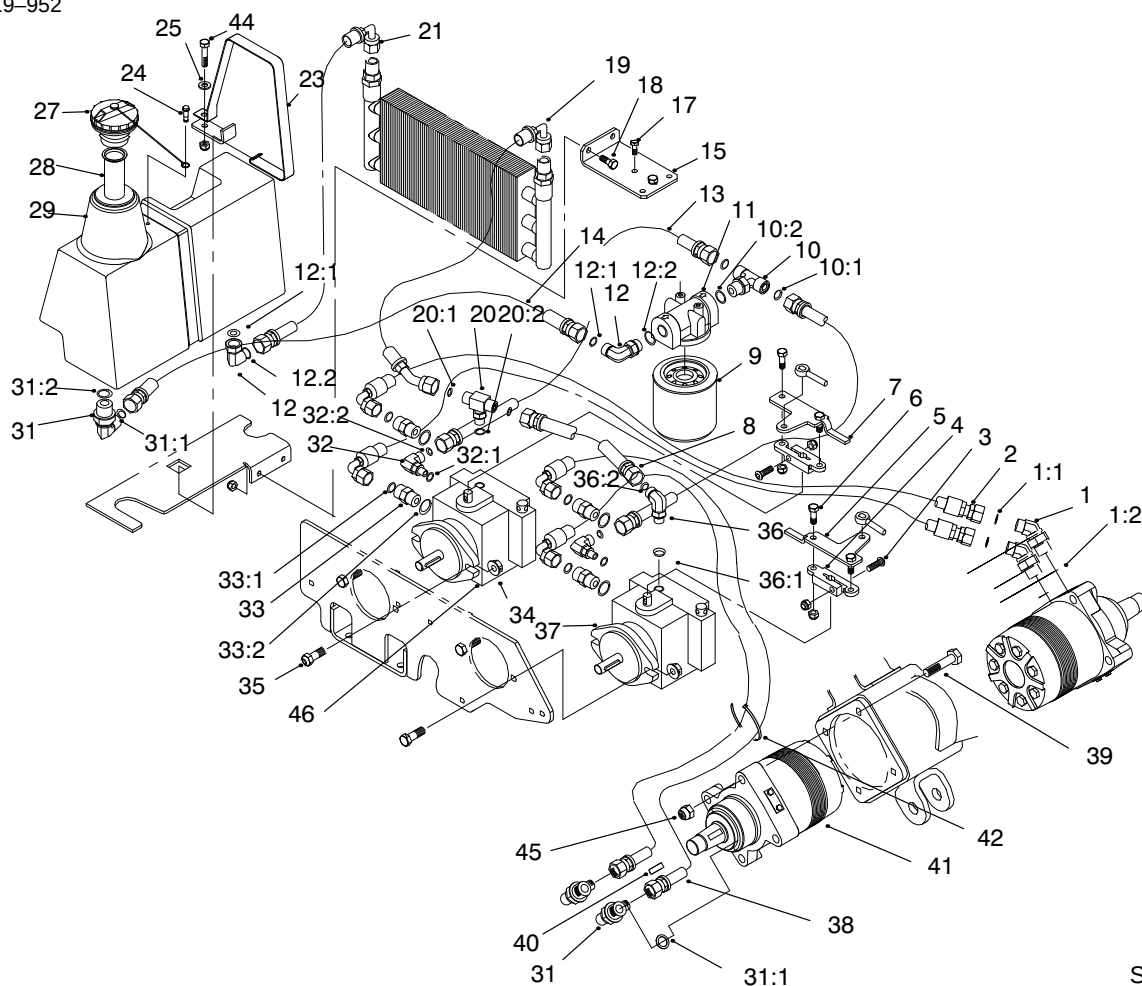
Ref. No.	Part No.	Qty.	Description
23	106950	2	Bushing
24	98-1998	1	RH Brake Lever ASM
25	98-1996	2	Rod-Brake
26	94-9573-01	2	Mount-Lever
27	323-18	4	Screw-HH
28	3256-24	1	Washer-Flat
29	3296-39	4	Nut-Lock
30	98-1997	1	LH Brake Lever ASM
31	282-2	2	Pin-Clevis
32	3220-20	2	Nut-Hex Jam
33	3220-2	2	Nut-Jam
34	98-4367	2	Clevis-Adjustable



Sheet No.: 6

Hydraulic System

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	340-89	2	Fitting-Hydraulic	20:2	237-42	1	O-Ring
1:1	237-30	2	O-Ring	21	94-4709	1	Hose ASM-Hyd
1:2	237-80	2	O-Ring	23	94-4642-03	1	Strap-Hydraulic Tank
2	94-4714	2	Hose ASM-Hyd	24	3290-126	1	Screw-Hfh
3	3274-83	2	Screw-HSH	25	3256-23	1	Washer-Flat
4	94-4678	2	Arm-Pump Control	26	3296-29	9	Nut-Lock
5	94-4701-03	1	Plate-Control	27	93-4365	1	Oil Cap
6	322-5	4	Screw-HH	28	92-1705	1	Screen-Filter
7	94-4702-03	1	Plate-Control	29	94-4700	1	Tank-Hydraulic
8	94-4712	1	Hose ASM-Hyd	31	340-105	3	Fitting-Elbow
9	67-8110	1	Filter-Oil	31:1	237-30	3	O-Ring
10	340-157	1	Fitting-Hydraulic	31:2	237-80	3	O-Ring
10:1	237-30	1	O-Ring	32	340-97	2	Fitting-Hydraulic
10:2	237-79	1	O-Ring	32:1	237-22	2	O-Ring
11	86-9080	1	Head-Filter	32:2	237-78	2	O-Ring
12	340-98	2	Fitting-Hydraulic	33	340-4	4	Fitting-Hydraulic
12:1	237-30	2	O-Ring	33:1	237-30	4	O-Ring
12:2	237-79	2	O-Ring	33:2	237-79	4	O-Ring
13	98-4384	2	Hose ASM - Hyd	34	32128-42	4	Nut-Hex Flange
14	94-4710	1	Hose ASM-Hyd	35	324-5	4	Screw-HH
15	94-9525-03	1	Angle-Mount	36	340-77	1	Fitting-Hydraulic
17	3234-4	2	Screw-HH	36:1	237-22	1	O-Ring
18	322-4	2	Screw-HH	36:2	237-42	1	O-Ring
19	94-4713	1	Hose ASM-Hyd	37	98-4375	1	Pump-Hydraulic
20	340-94	1	Tee	38	94-4705	2	Hose ASM
20:1	237-22	2	O-Ring	39	3274-93	8	Screw-HSH

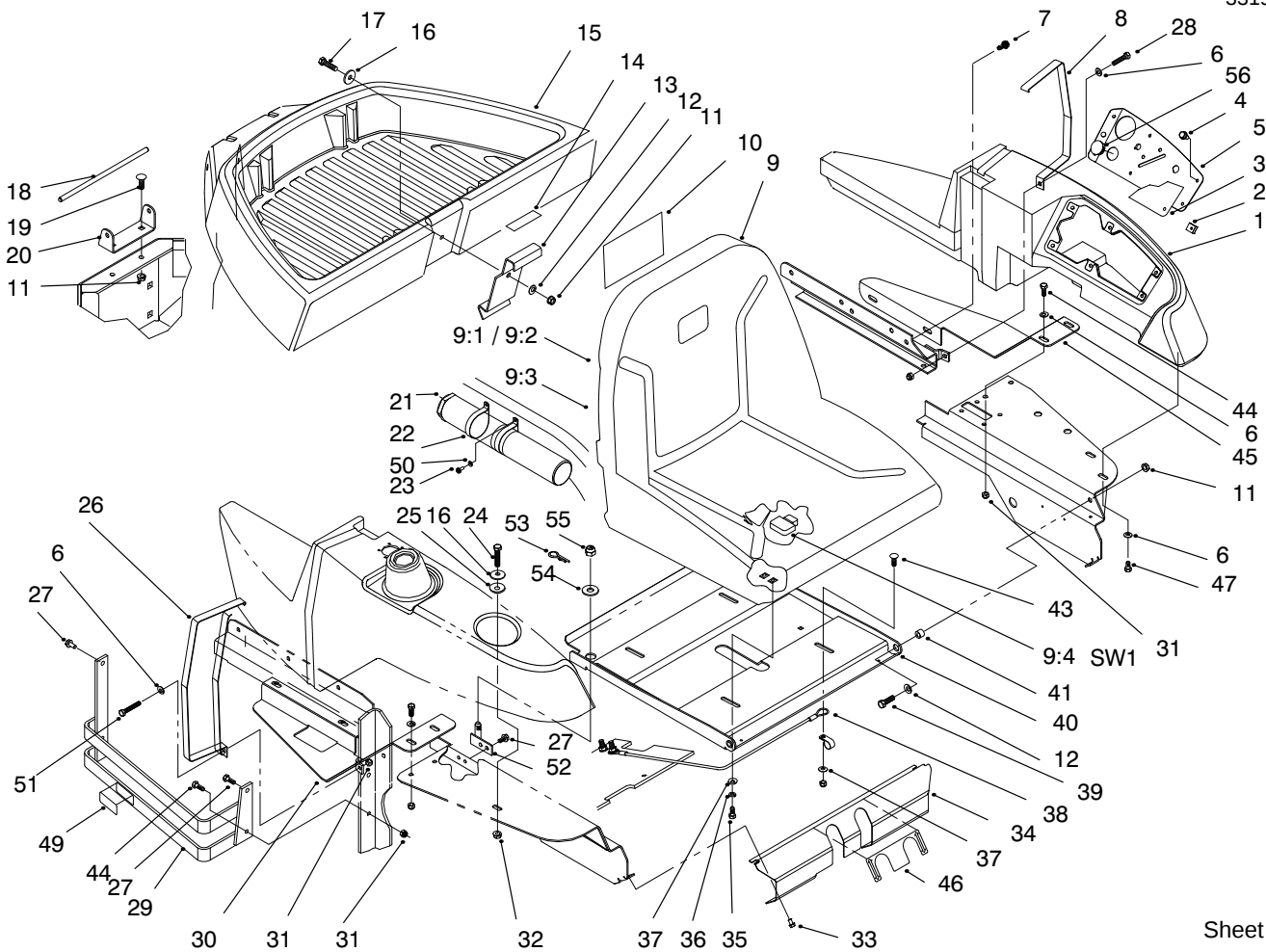


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Hydraulic System

Ref. No.	Part No.	Qty.	Description
40	3257-42	2	Key-Woodruff
41	94-4640	2	Motor-Hyd Wheel
42	3290-378	A/R	Tie-Cable
44	322-10	1	Screw-HH
45	3296-23	8	Nut-Lock
45	76-0800	2	Seal Kit-Wheel Motor
46	98-4374	1	Pump-Hydraulic

Ref. No.	Part No.	Qty.	Description



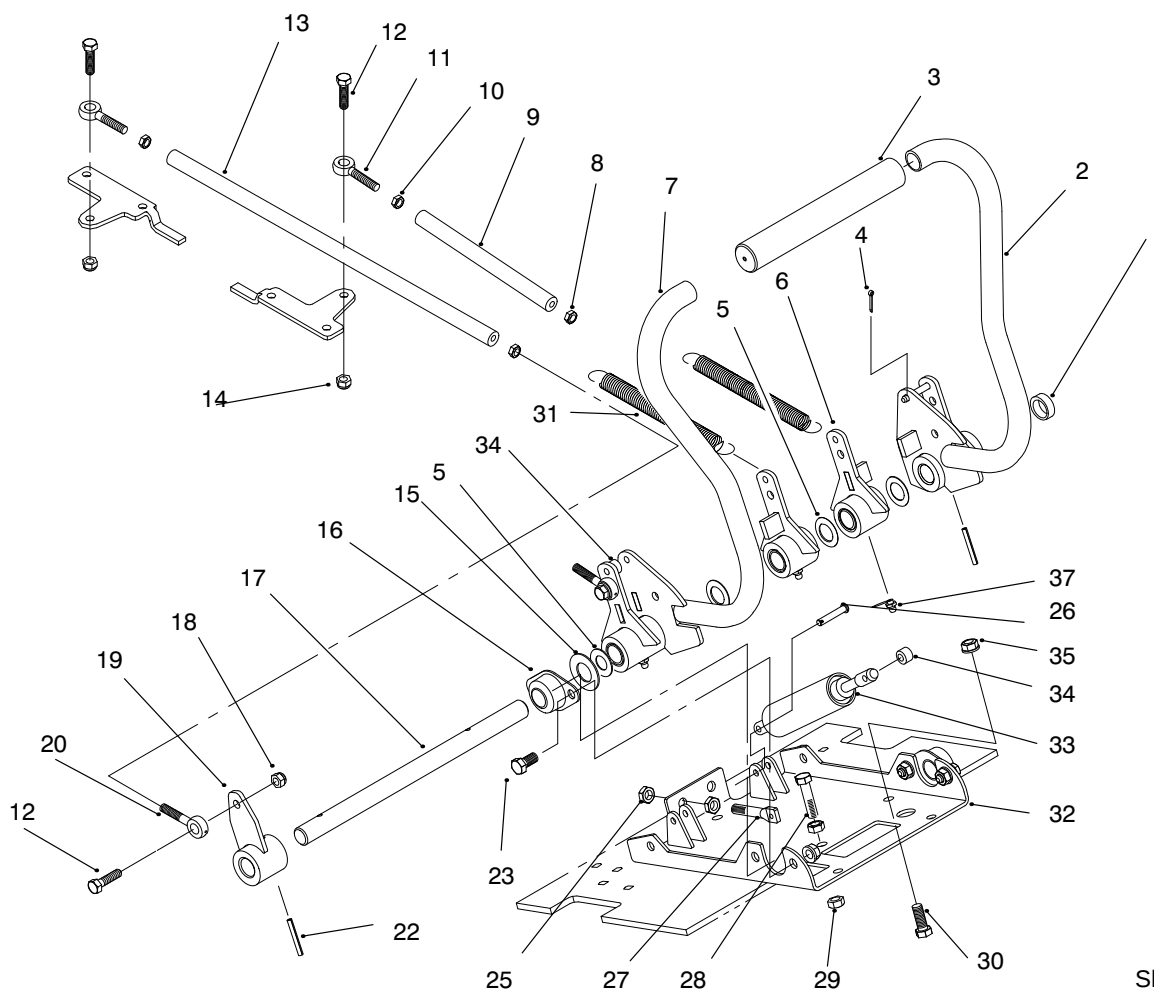
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Seat And Fenders

Ref. No.	Part No.	Qty.	Description
1	94-4698	1	Console
2	95-1962	6	Clip
3	98-4357	1	Decal-Instrument
4	32144-124	6	Screw-PPH
5	98-1999-03	1	Panel-Instrument
6	3256-23	8	Washer-Flat
7	32144-11	4	Screw-TAP
8	94-9488-03	1	Strap-Console
9	92-6280	1	Seat ASM
9:1	92-6534	1	Shell-Seat
9:2	92-6533	1	Kit-Replacement Cushion
9:3	351-78	1	Edging
9:4	92-6282	1	Seat-Switch
*9:5	321-3	2	Screw-HH
*9:6	351-80	1	Edging Clip
10	93-7340	1	Decal-Toro
11	3296-39	5	Nut-Lock
12	3256-24	3	Washer-Flat
13	94-4672-03	1	Latch
14	98-1306	1	Decal-No Riders
15	94-4699	1	Box-Utility
16	63-8410	2	Washer-Flat
17	323-8	1	Screw-HH
18	94-9496	1	Pin-Pivot
19	3231-2	2	Screw-CARR

Ref. No.	Part No.	Qty.	Description
20	94-4721-03	1	Hinge
21	74-0720	1	Tube-Manual
22	2412-120	2	Clamp-R
23	3269-8	2	Rivet
24	323-9	1	Screw-HH
25	240-11	1	Grommet
26	94-4799-03	1	Strap-Fuel Tank
27	32144-14	4	Screw-HWH
28	322-10	1	Screw-HH
29	98-1953-03	1	Bumper ASM
29	98-1995	1	Bumper
30	94-4798-01	1	Plate-Tank Support
31	3296-29	9	Nut-Lock
32	3290-357	1	Nut-Lock Flange
33	32144-4	4	Screw-TAP
34	94-9491-01	1	Plate-Cover
35	322-3	4	Screw-HH
36	3253-4	4	Washer-Lock
37	3256-2	5	Washer-Flat
38	98-4371	1	Cable-Seat
39	323-7	2	Screw-HH
40	94-9529-01	1	Plate-Seat
41	52-2480	2	Spacer
43	3230-2	1	Screw-CARR
44	322-4	6	Screw-HH

* Not Illustrated

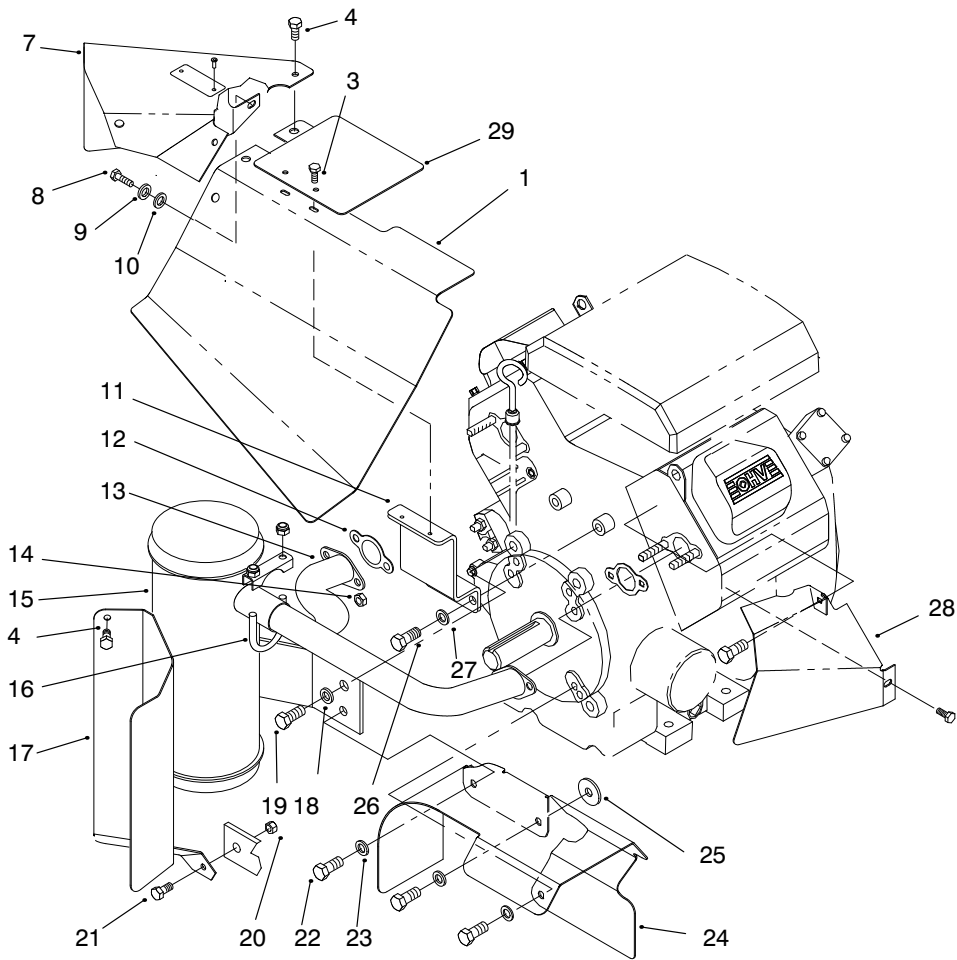


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Steering Controls

Ref. No.	Part No.	Qty.	Description
1	94-9524	1	Spacer-Control
2	94-9517-03	1	Handle-Control LH
3	94-9490	2	Grip-Cushion
4	3272-4	4	Pin-Cotter
5	9202574	A/R	Washer-Flat
6	94-9552	2	Center Control ASM
7	94-9551	1	Handle-Control RH
8	3220-20	2	Nut-Hex Jam
9	94-4717	1	Rod-Control
10	3220-2	2	Nut-Jam
11	2411-52	2	Rod-End RH
12	322-5	4	Screw-HH
13	94-4718	1	Rod-Control
14	3296-29	2	Nut-Lock
15	3256-39	1	Washer-Flat
16	27-2320	2	Bearing
17	94-9515	1	Shaft-Control
18	3296-47	2	Nut-Lock
19	94-9594-03	1	Hub-Control
20	2411-53	2	Rod-End LH
22	32121-103	2	Pin-Spring
23	323-4	4	Screw-HH
25	3218-3	4	Nut-HJ
26	283-66	4	Pin-Clevis
27	113697	2	Eye Bolt
28	323-8	2	Screw-HH

Ref. No.	Part No.	Qty.	Description
29	3217-7	4	Nut-Lock
30	323-6	3	Screw-HH
31	98-1322	2	Spring-Extension
32	94-9591-03	1	Mount-Channel
33	94-9596	2	Damper-Control
34	94-9593	2	Spacer-Damper
35	3296-39	7	Nut-Lock
37	302-5	3	Fitting-Grease

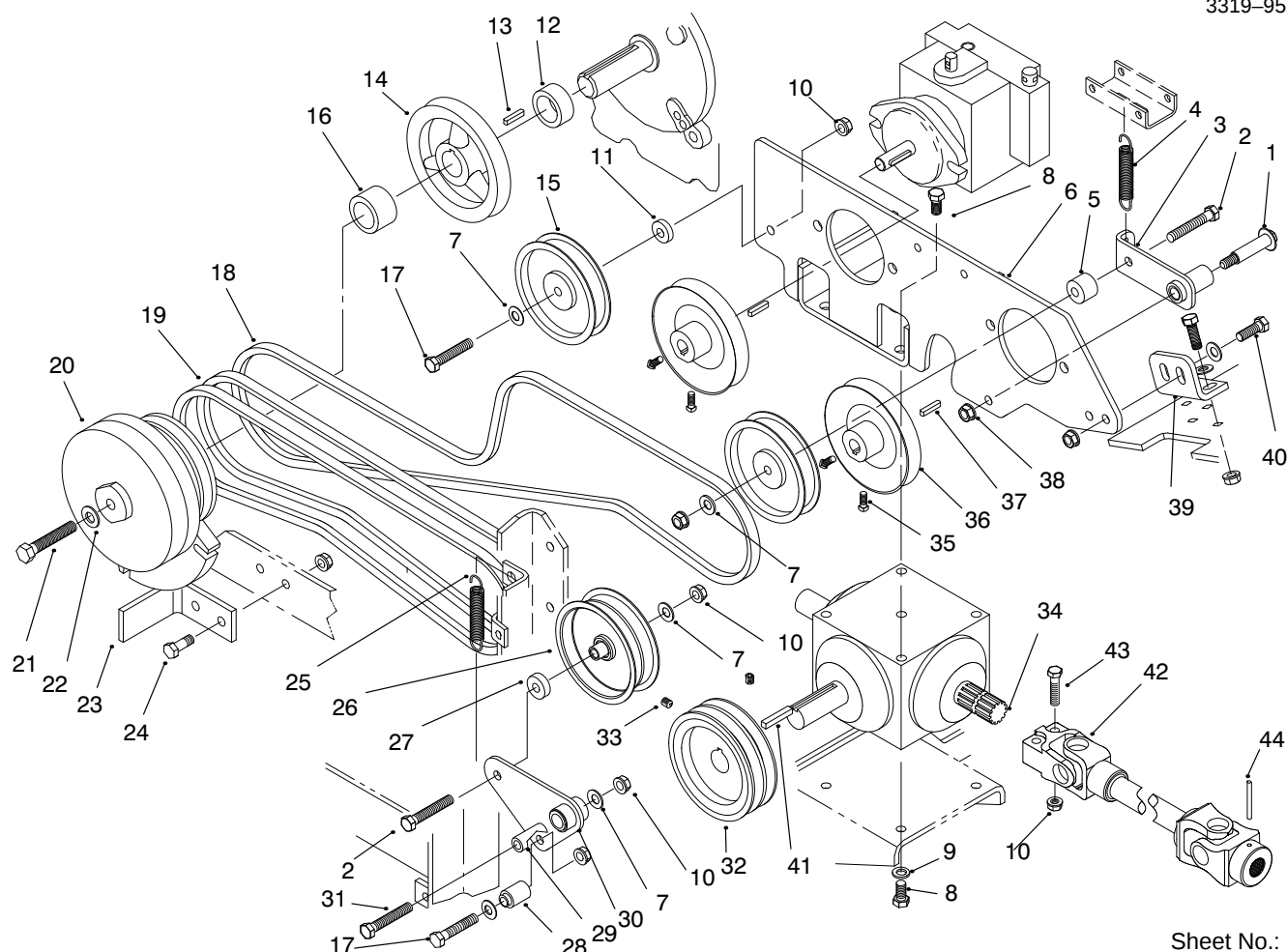


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Heat Shields And Exhaust

Ref. No.	Part No.	Qty.	Description
1	98-1967	1	Top Heat Baffle ASM
3	12-5450	2	Screw-Thread Forming
4	3234-4	4	Screw-HH
7	98-1968	1	Rear Heat Baffle ASM
8	42-9430	1	Bolt w/Washer
9	48-8020	1	Washer-Lock
10	33093-00	1	Washer-Flat M6
11	94-9561-03	1	Bracket-Manifold Shield
12	93-0350	2	Gasket-Exhaust
13	94-9494	1	Manifold
14	92-6780	4	Nut-HHF
15	94-9495	1	Muffler
16	2112-11	1	Clamp-Muffler
17	98-1329	1	Baffle-Heat
18	3253-6	1	Washer-Lock
19	324-4	1	Screw-HH
20	3296-42	1	Nut-Lock
21	321-4	1	Screw-HH
22	323-5	3	Screw-HH
23	3253-5	3	Washer-Lock
24	98-1326	1	Baffle-Heat
25	2844	1	Washer-Flat
26	33114-020	2	Screw-HH
27	42-9850	2	Washer-Lock

Ref. No.	Part No.	Qty.	Description
28	98-1349	1	Baffle-Heat
29	98-1979	1	Panel-Access



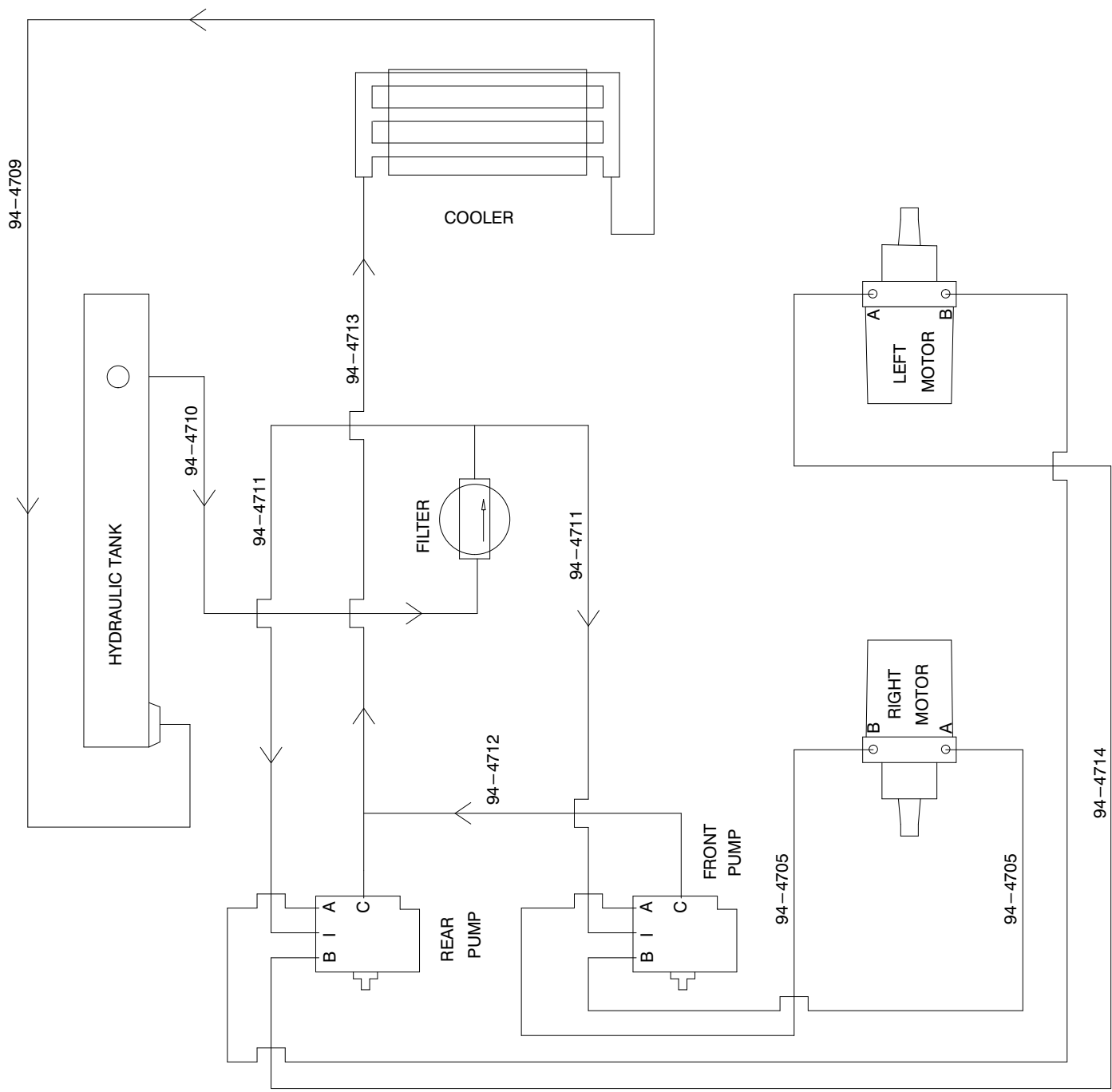
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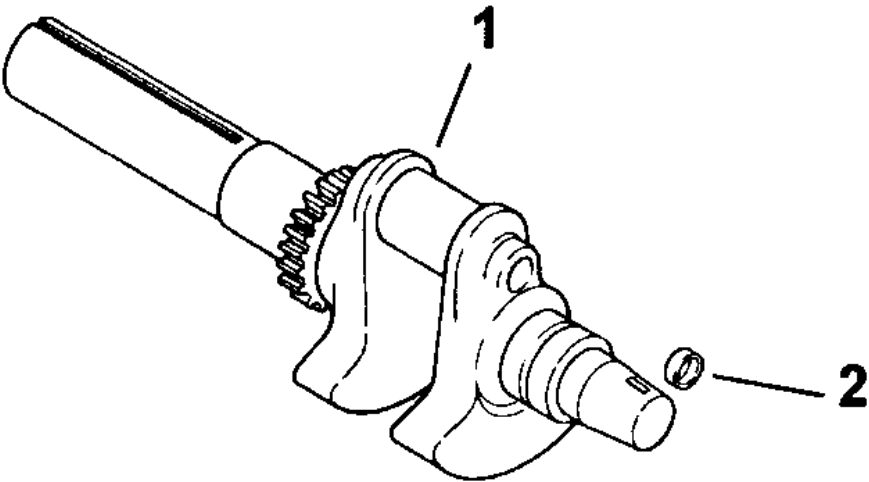
Drive Systems

Ref. No.	Part No.	Qty.	Description
1	27-6230	1	Bolt-Wheel
2	323-11	2	Screw
3	95-1950	1	Arm ASM
4	94-9599	1	Spring-Extension
5	94-4792	1	Spacer-Idler Arm
6	94-4658-03	1	Pump-Mount
7	3256-24	5	Washer-Flat
8	3234-1	8	Screw-HHF
10	3296-39	13	Nut-Lock
11	9202204	1	Washer
12	94-4688	1	Spacer-Engine Shaft
13	5-0698	1	Key
14	94-4628	1	Engine-Pulley
15	93-1622	2	Pulley-Idler
16	94-4689	1	Spacer-Engine Shaft
17	323-10	2	Screw-HH
18	94-4607	1	Belt-Pump Drive
19	94-4608	1	Belt-PTO
20	94-4632	1	Clutch ASM
21	3212-10	1	Screw
22	3256-25	1	Washer-Flat
23	98-1301-03	1	Stop-Clutch
24	323-6	2	Screw-HH
25	88-6460	1	Spring - Extension
26	66-4210	1	Pulley-Idler
27	94-4685	1	Spacer-Idler

Ref. No.	Part No.	Qty.	Description
28	95-1967	1	Spacer-Spring
29	114511	1	Spacer
30	95-1968	1	Idler Arm ASM
31	323-31	1	Screw-Hhcs
32	94-4629	1	Clutch-Pulley
33	3246-3	2	Screw-HSH
34	94-4641	1	Gearbox-PTO Drive
35	3241-5	4	Set Screw
36	80-8170	2	Pulley-Pump
37	80-6090	2	Key-Square
38	3296-6	1	Nut-Lock
39	94-4787-03	1	Mount-Plate
40	3234-11	4	Screw-HHF
41	67-7490	1	Key
42	94-4722	1	Shaft-Drive
43	323-19	2	Screw-HH
44	32121-48	1	Pin-Roll

Hydraulic Schematic

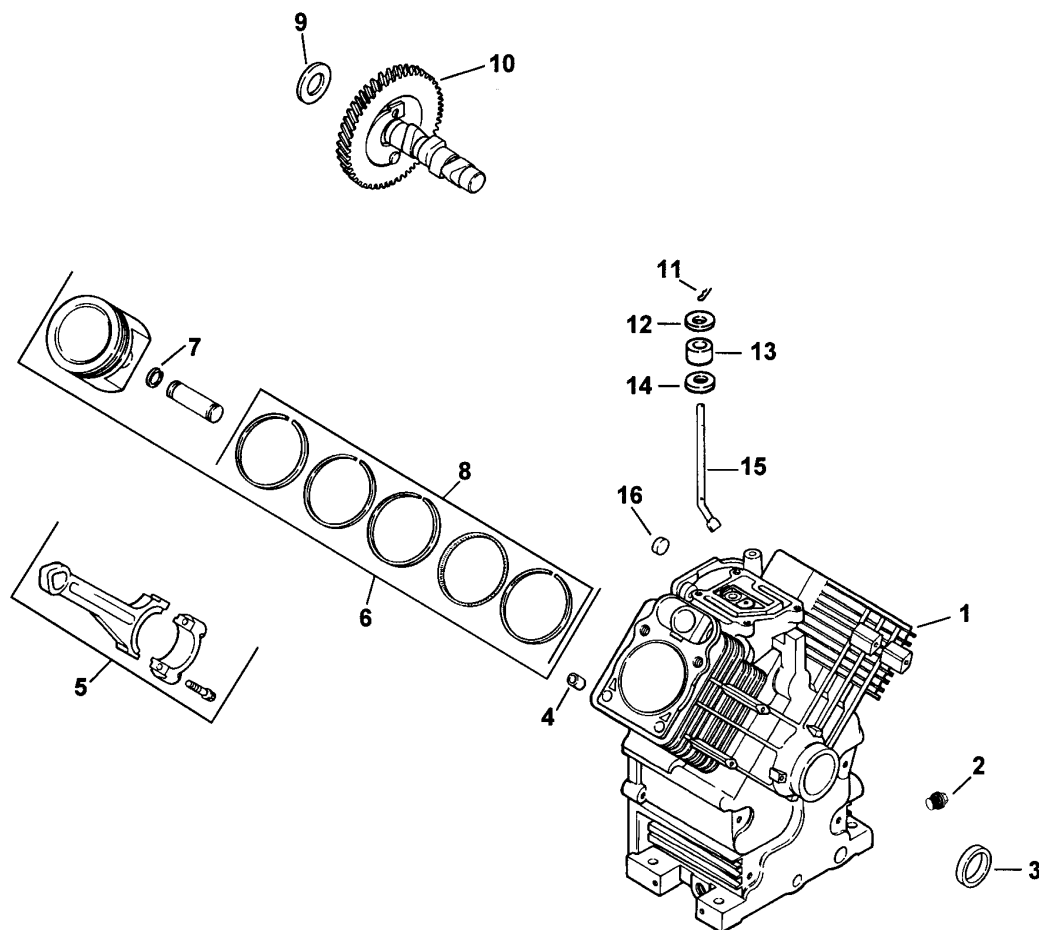




Crankshaft

Ref. No.	Description	Part No.
1.	Crankshaft (Incl. 2)	24 014 72
2.	Plug, cup	52 139 09

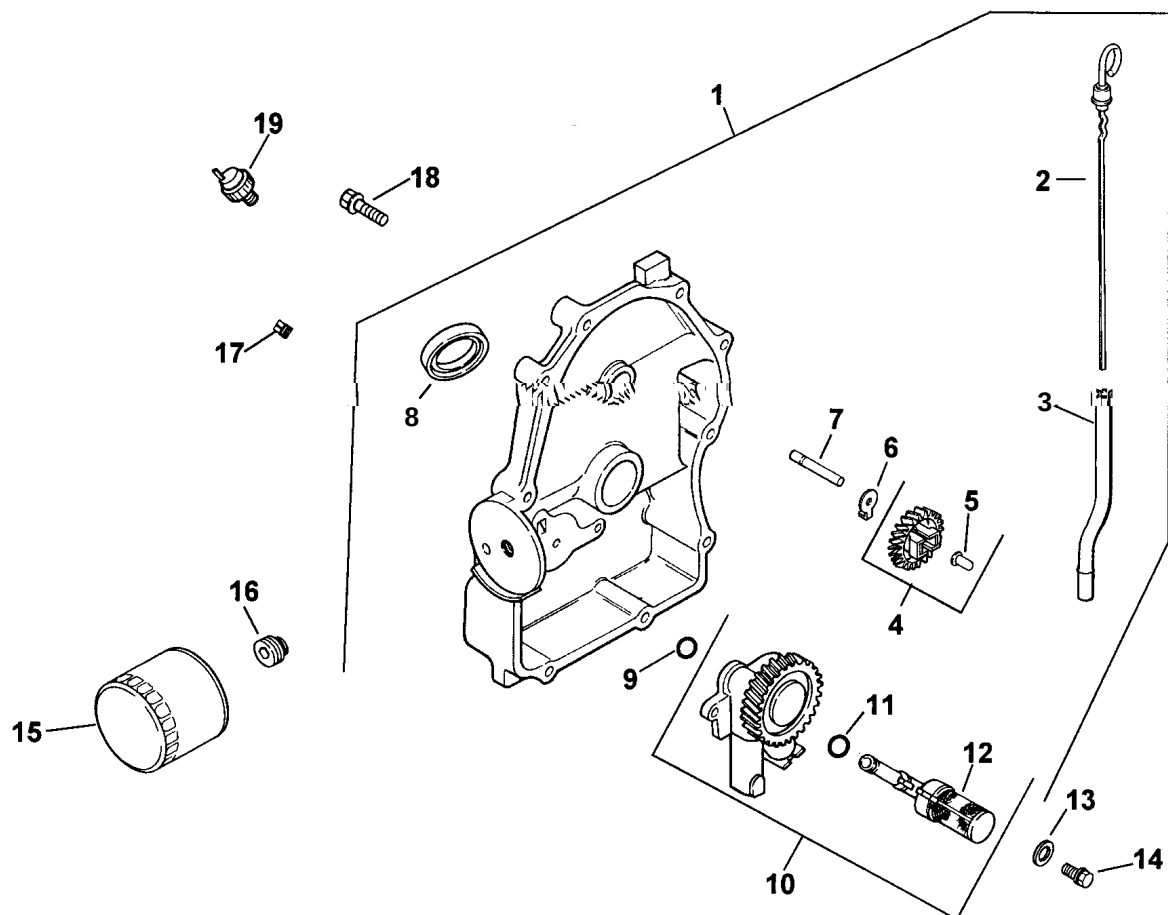
Ref. No.	Description	Part No.



Crankcase

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
1.	Cylinder Block (USE: Miniblock	24 782 01	15.	Shaft, governor cross	24 144 01
2.	Plug, hex. head 3/8 (2)	X-75-10	16.	Plug, cup	52 139 09
3.	Seal, oil front	24 032 01			
4.	Pin, dowel locating (6)	12 380 17			
5.	Connecting Rod (Std.) (2)	24 067 09			
	Connecting Rod (.25) (2)	24 067 10			
6.	Piston w/Ring Set (Std.) (2)	24 874 01			
	Piston w/Ring Set (.25) (2)	24 874 02			
	Piston w/Ring Set (.50) (2)	24 874 03			
7.	Retainer, piston pin (4)	24 018 01			
8.	Ring Set (Std.) (2)	24 108 01			
	Ring Set (.25) (2)	24 108 02			
	Ring Set (.50) (2)	24 108 03			
9.	Shim, camshaft (A.R.) red	12 422 09			
	Shim, camshaft (A.R.) black	12 422 13			
	Shim, camshaft (A.R.) white	12 422 07			
	Shim, camshaft (A.R.) blue	12 422 08			
	Shim, camshaft - yellow	12 422 10			
	Shim, camshaft (A.R.) green	12 422 11			
	Shim, camshaft (A.R.) gray	12 422 12			
10.	Camshaft	24 012 05			
11.	Pin, hitch	12 380 04			
12.	Washer, flat	M-0631005			
13.	Seal, governor cross shaft	12 032 01			
14.	Washer, plain 1/4	X-25-102			

Kohler Engine CH20S 64582
Obtain Parts From Kohler

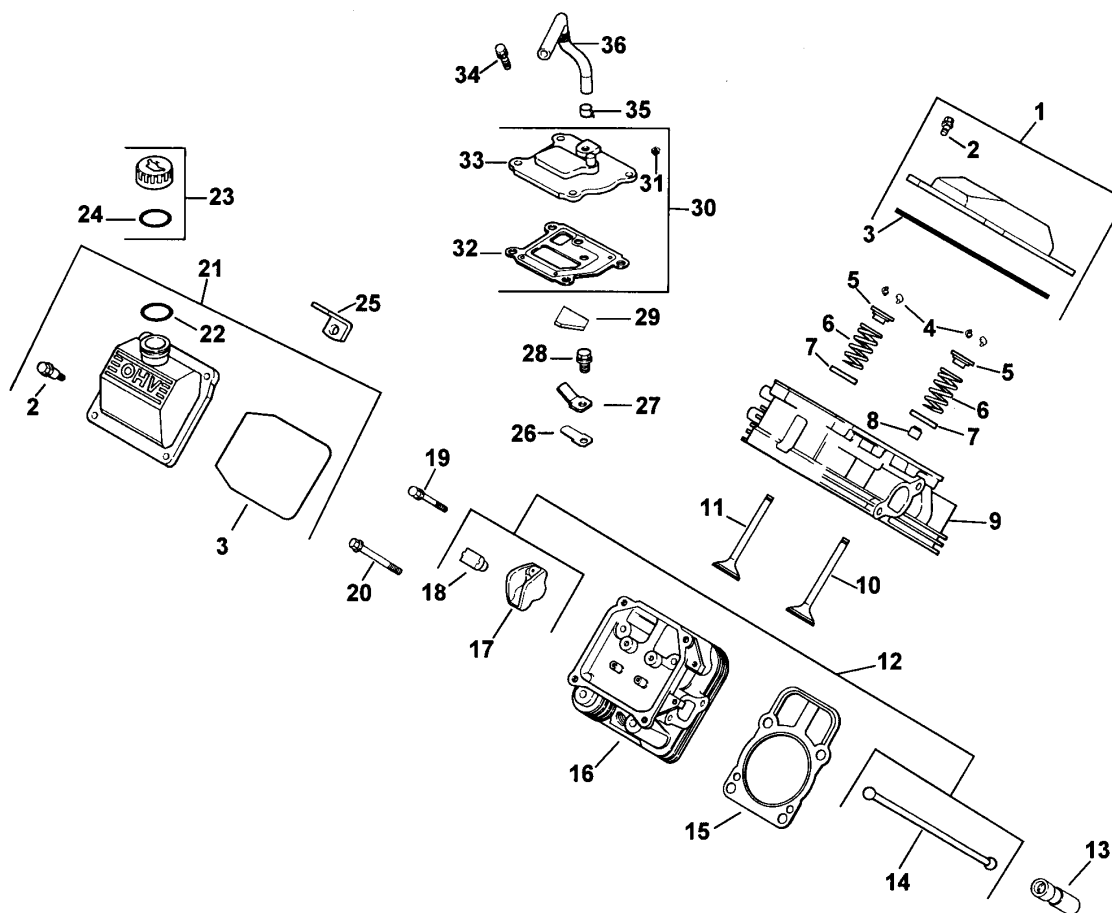


Oil Pan / Lubrication

Ref. No.	Description	Part No.
1.	Plate, closure Asm (Inc 2–12)	24 009 82
2.	Dipstick	24 038 06
3.	Tube, dipstick	24 123 08
4.	Kit, governor gear (Includes 5)	24 043 12
5.	Pin, governor regulating	12 380 01
6.	Tab, locking	52 448 02
7.	Shaft, governor gear	12 144 02
8.	Seal, oil (PTO end)	52 032 08
9.	O–Ring	24 153 08
10.	Oil pump Asm (Incl. 11–12)	24 393 10
11.	O–Ring, oil pick–up	24 153 01
12.	Pick–up, oil	24 381 04
13.	Washer, plain 6mm (2)	M–0631005
14.	Screw, hex. flange M6x1.0x25 (2)	M–0645025
15.	Filter, oil	12 050 01
16.	Nipple, oil filter	24 136 01
17.	Plug, pipe 1/8"	X–75–23
18.	Screw, hex. flange M8x1.25x45 (10)	24 086 16
19.	Switch, pressure	52 099 06
	Decal, oil sentry	25 113 05

Ref. No.	Description	Part No.

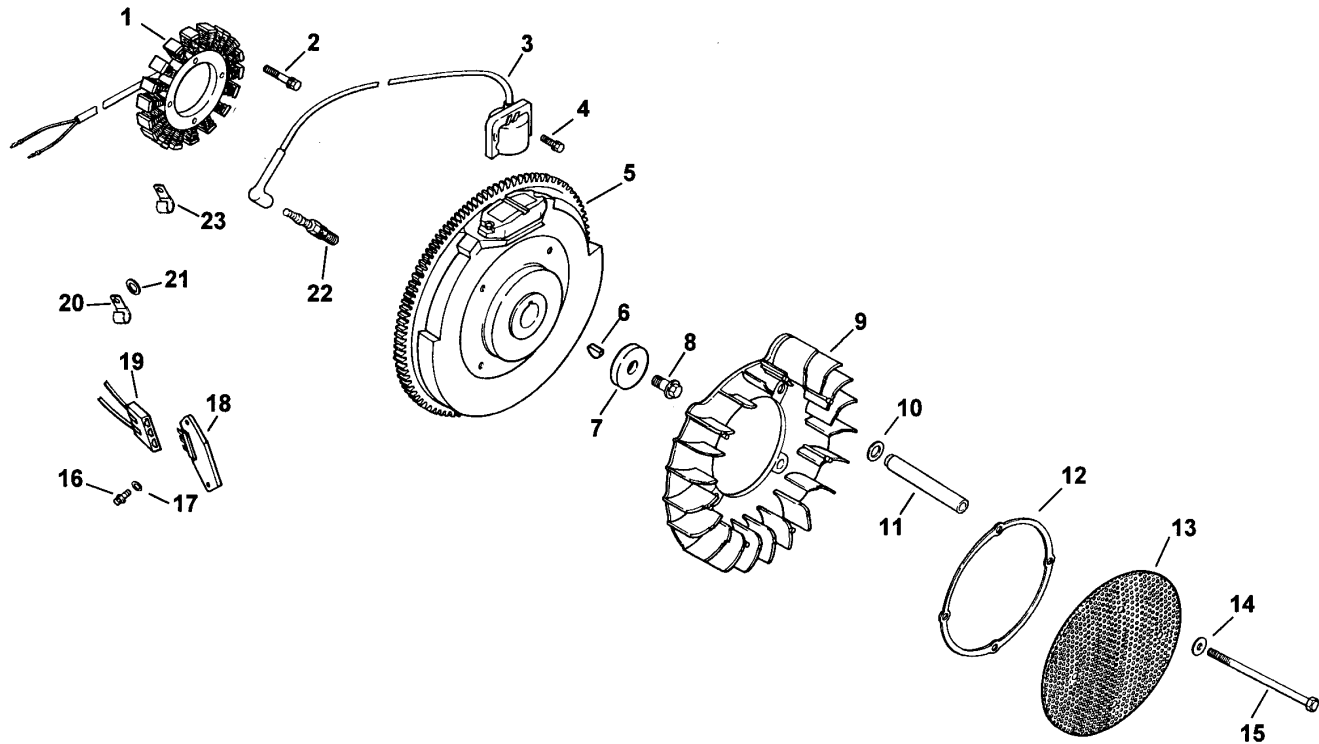
Kohler Engine CH20S 64582 Obtain Parts From Kohler



Head / Valve / Breather

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
1.	Kit, valve cover – plain (Incl. 2-3)	24 755 74	21.	Kit, valve cover – oil fill (Incl. 2,3,22)	24 755 75
2.	Screw, shoulder (4)	24 086 32	22.	O-Ring	24 153 09
3.	O-Ring, valve cover	24 153 16	23.	Kit, oil fill cap (Incl. 24)	24 755 46
4.	Kit, retainer (4)	12 755 03	24.	O-Ring, oil fill cap	24 153 03
5.	Cap, valve spring (4)	12 173 01	25.	Strap, lifting	24 445 01
6.	Spring, valve (4)	24 089 02	26.	Reed, breather	24 402 03
7.	Retainer, spring (4)	235011	27.	Retainer, breather reed	12 018 01
8.	Seal, valve stem (2)	24 032 05	28.	Screw, hex. flange M5x0.8x10	M-0545010
9.	Head Asm, #1 cylinder	24 318 09	29.	Filter, breather	24 050 01
10.	Valve, intake (Std.) (2)	24 017 01	30.	Kit, breather (Incl. 31-33)	24 033 01
	Valve, intake (.25) (2)	24 017 02	31.	Plug, allen head 1/8 pipe	X-75-23
11.	Valve, exhaust (Std.) (2)	24 016 01	32.	Gasket, breather	24 041 23
	Valve, exhaust (.25) (2)	24 016 02	33.	Cover, breather	24 096 02
12.	Kit, valve train (Incl. 14,17,18)	24 755 66	34.	Screw, hex. flange M6x1.0x20 (4)	M-0645020
13.	Lifter, valve (4)	12 351 02	35.	Clamp, breather	X-426-9
14.	Rod, push (4)	24 411 05	36.	Hose, breather	24 326 06
15.	Gasket, cylinder head (2)	24 041 08			
16.	Head Asm, #2 cylinder	24 318 10			
17.	Arm, rocker (4)	25 186 01			
18.	Pivot, rocker arm (4)	24 599 01			
19.	Screw, hex. flange M6x1.0x34 (4)	M-0640034			
20.	Screw, hex. flange M10x1.5x90 (8)	12 086 16			

Kohler Engine CH20S 64582
Obtain Parts From Kohler

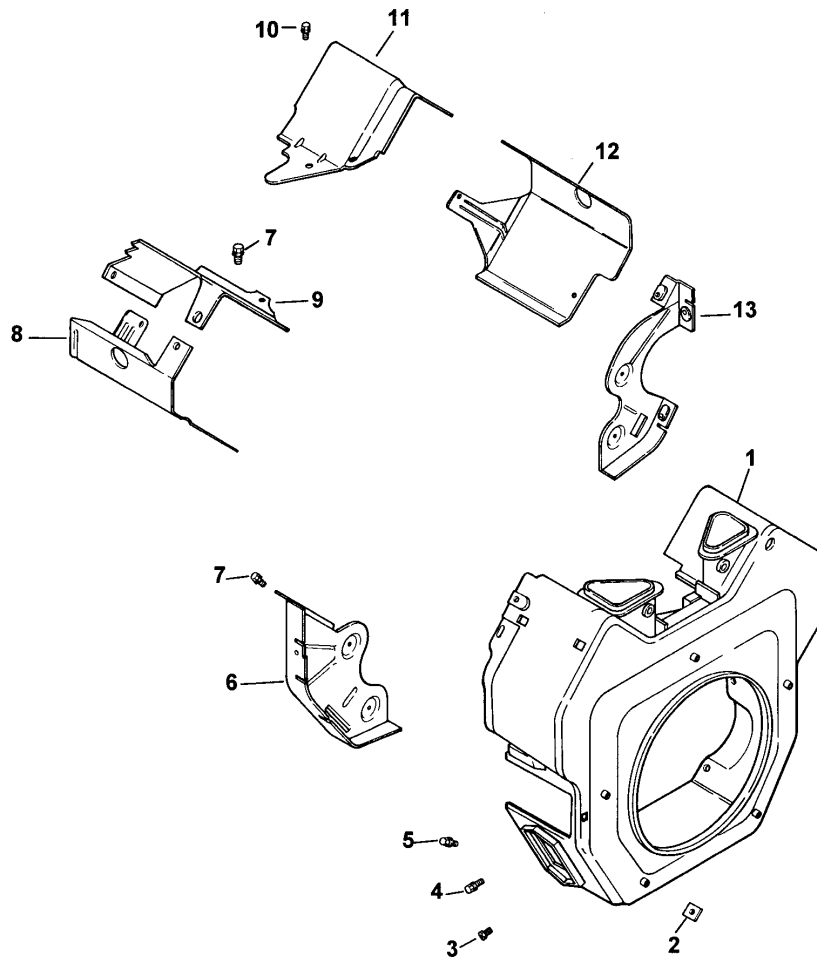


Ignition / Electrical

Ref. No.	Description	Part No.
1.	Stator – 15 amp	24 085 03
2.	Screw, hex. cap M5x0.8x25 (2)	M-0548025
3.	Module, ignition (2)	24 584 01
4.	Screw, hex. flange (4)	M-0545020
5.	Flywheel	24 025 01
6.	Key	X-42-15
7.	Washer, plain 3/8	12 468 03
8.	Screw, hex. flange M10x1.5x46	12 086 14
9.	Fan	24 157 03
10.	Washer, spring 10 mm (4)	24 468 11
11.	Spacer, grass screen (4)	24 112 14
12.	Ring, support	24 141 06
13.	Screen, grass	24 162 25
14.	Washer, plain (4)	X-25-53
15.	Screw, hex. cap M6x1.0x100 (4)	M-0603100

Ref. No.	Description	Part No.
16.	Screw, phillips hd. 1 1-16x7/8 (2)	24 086 18
17.	Washer, plain 3/16 (2)	X-25-92
18.	Rectifier-regulator 15 amp	25 403 03
19.	Connector	236602
20.	Clip, cable	235173
21.	Washer, plain 1/4	X-25-63
22.	Spark Plug (2)	12 132 02
23.	Clip, cable	48 154 02
	Lead, black, (4" – 18 gauge – insulated grip barrel eyelet terminals)	25 518 28
	Harness, wiring	24 176 40
	Bracket, stator wire	24 126 71
	Screw, set (adjusts grass scraper blade)	25 086 43
	Washer, plain ground	X-25-63

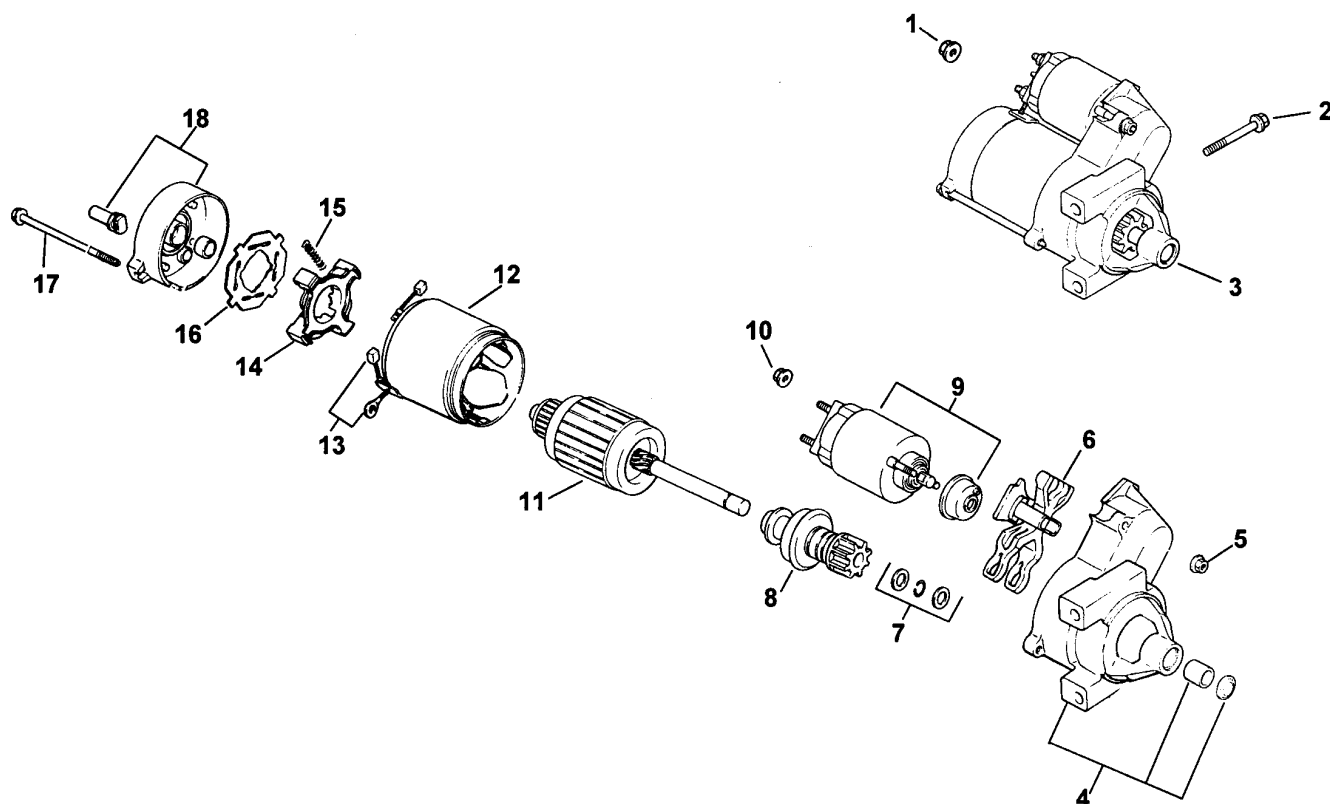
Kohler Engine CH20S 64582
Obtain Parts From Kohler



Blower Housing And Baffles

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
1.	Housing, blower	54 027 03			
2.	Nut, plastic (2)	24 100 01			
3.	Screw, hex. flange M5x0.8x16	M-0551016			
4.	Screw, hex. flange (5) M5x0.8x16	M-0545016			
5.	Screw, hex. flange (2) M5x0.8x20	M-0545020			
6.	Plate, backing - #2 side	24 146 02			
7.	Screw, hex. flange M6x1.0x16 (6)	M-0645016			
8.	Baffle, cyl. barrel - #2 side	24 063 20			
9.	Baffle, valley - #2 side	24 063 17			
10.	Screw, hex. flange M5x0.8x10 (2)	M-0545010			
11.	Baffle, valley - #1 side	24 063 24			
12.	Baffle, cyl. barrel - #1 side	24 063 30			
13.	Plate, backing - #1 side	24 146 08			
	Decal, HP	24 113 12			

Kohler Engine CH20S 64582
Obtain Parts From Kohler

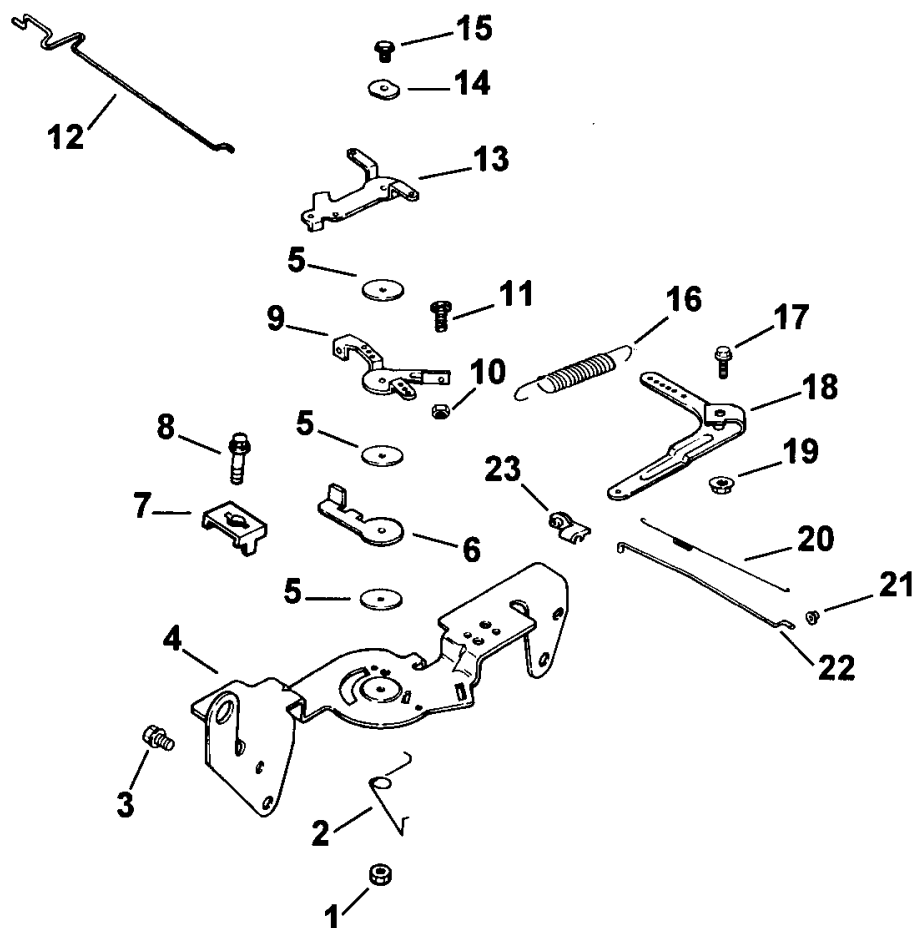


Starter System

Ref. No.	Description	Part No.
1.	Nut, hex flange M8x1.25	M-0841080
2.	Screw, hex. flange M8x1.25x80 (2)	M-0839080
3.	Starter, solenoid shift Asm (Incl. 4-18)	24 098 01
4.	Drive, end cap	24 081 04
5.	Nut, starter (2)	52 100 10
6.	Lever, starter drive	12 090 10
7.	Kit, starter repair	24 755 84
8.	Drive, pinion	12 239 01
9.	Solenoid	52 435 02
10.	Nut, starter	52 100 09
11.	Armature, starter	12 170 04
12.	Frame	12 471 01
13.	Kit, brush & spring (Incl. 15)	52 221 01
14.	Holder, brush	52 323 03
15.	Spring, brush (4)	52 089 09
16.	Insulator	52 168 01
17.	Bolt, thru (2)	52 211 05
18.	Commutator, end cap	24 301 01

Ref. No.	Description	Part No.

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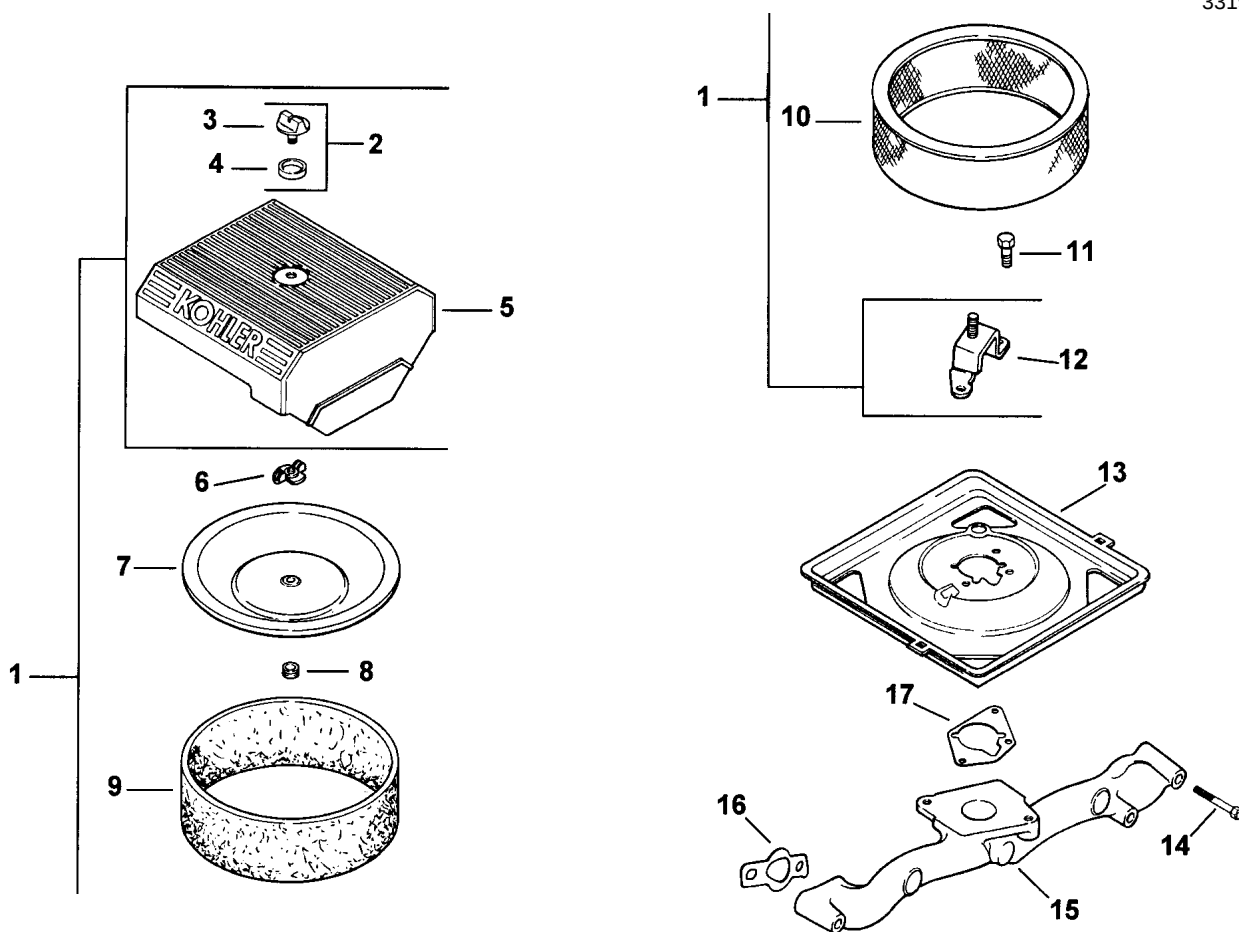


Engine Controls

Ref. No.	Description	Part No.
1.	Nut, hex. lock M5x0.8	M-0547050
2.	Spring, choke return	24 089 03
3.	Screw, hex. flange M6x1.0x16	(4) M-0645016
4.	Bracket, control	24 126 56
5.	Washer, plain 5.5mm (3)	24 468 01
6.	Lever, throttle actuator	24 090 07
7.	Clamp, cable (2)	12 237 01
8.	Screw, hex. flange M5x0.8x16	M-0545016
9.	Lever, throttle control	24 090 03
10.	Nut, hex M4x0.7	M-0446030
11.	Screw, hex. cap M4x0.7x30	M-0401030
12.	Linkage, choke	24 079 02
13.	Lever, choke	24 090 05
14.	Washer, spring 1/4	41 468 03
15.	Screw, hex. flange M5x0.8x20	M-0545020
16.	Spring, governor	24 089 18
17.	Screw, hex. flange M6x1.0x25	SM-064205
18.	Lever, governor	24 090 14
19.	Nut, hex. flange M6x1.0	M-0641060
20.	Spring, linkage	24 089 01
21.	Bushing, linkage retaining	25 158 08
22.	Linkage, throttle	24 079 01
23.	Bushing, linkage retaining	25 158 11

Ref. No.	Description	Part No.

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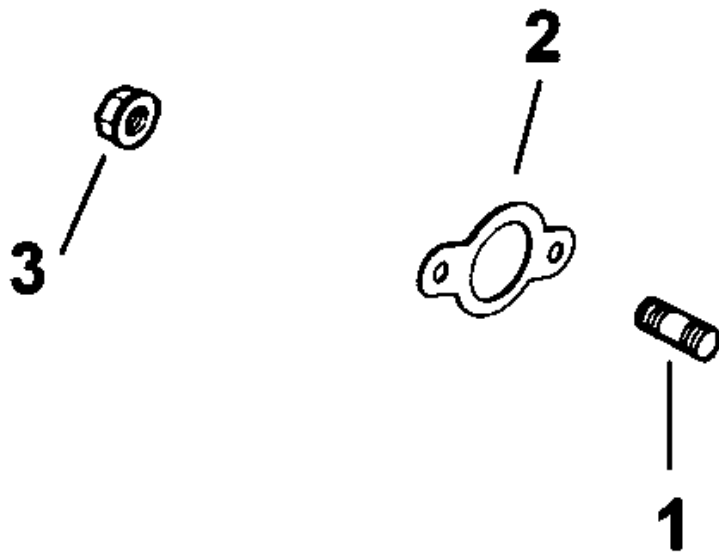


Air Intake / Filtration

Ref. No.	Description	Part No.
1.	Kit, air cleaner cover (Incl. 2–5, 12)	24 743 05
2.	Kit, knob with seal (Incl. 3–4)	54 755 01
3.	Knob, cover	25 341 03
4.	Seal, air cleaner cover knob	24 153 15
5.	Cover, air cleaner	24 096 24
6.	Wing Nut	12 100 01
7.	Cover, inner air cleaner	24 096 01
8.	Seal, inner air cleaner	24 032 03
9.	Precleaner, element	24 083 02
10.	Element, air cleaner	47 083 03
11.	Screw, hex. flange M6x1.0x16 (3)	M–0639016
12.	Bracket, air cleaner base	24 126 21
13.	Base, air cleaner	24 094 03
14.	Screw, hex. flange M6x1.0x55 (4)	M–0651055
15.	Manifold, intake	24 164 14
16.	Gasket, intake manifold (2)	24 041 01
17.	Gasket, air cleaner base	24 041 06

Ref. No.	Description	Part No.

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Exhaust

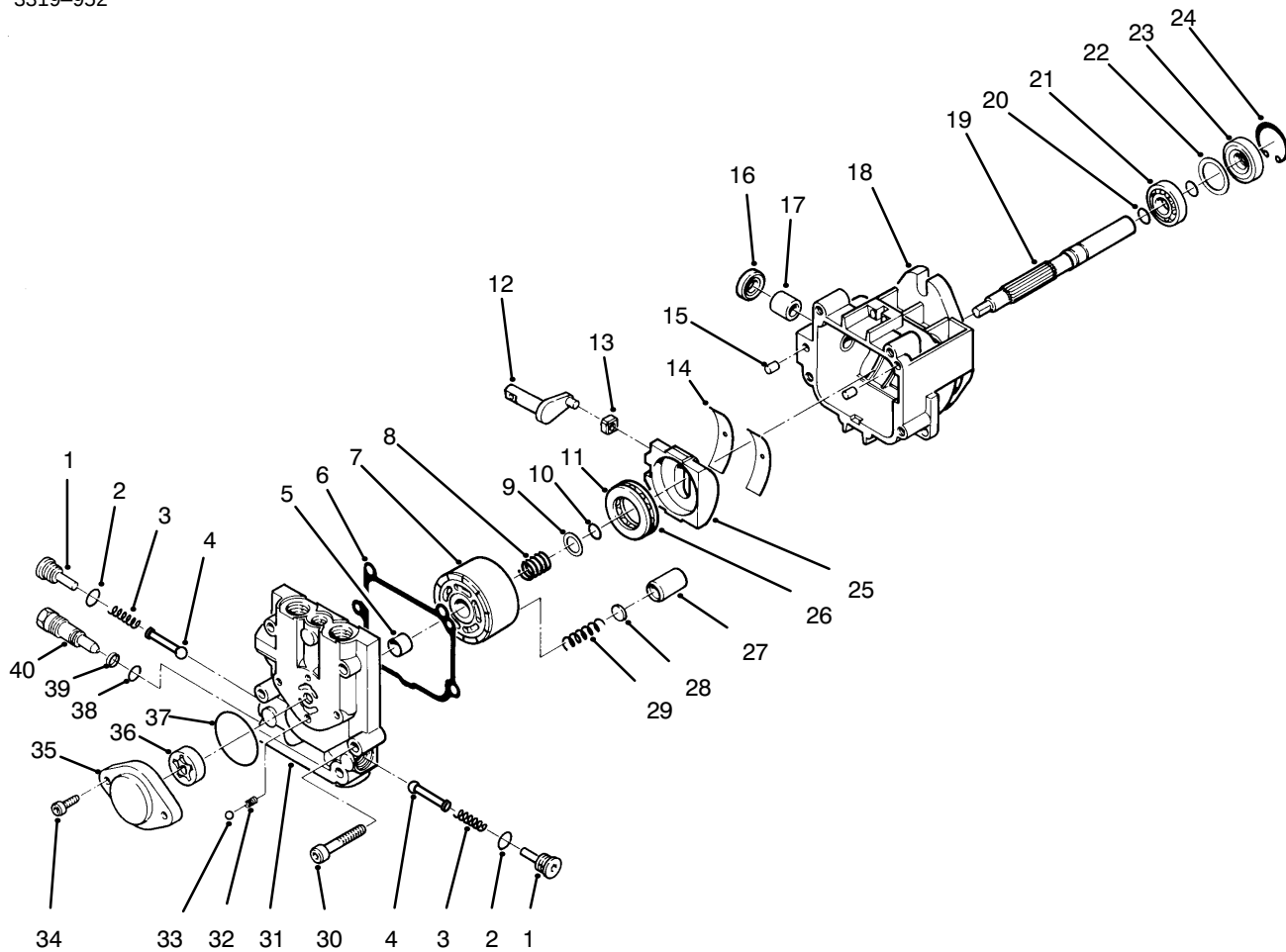
Ref. No.	Description	Part No.
1.	Stud M8x1.25x33 (4)	M-0829033
2.	Gasket, exhaust (2)	24 041 02
3.	Nut, hex. flange M8x1.25 (4)	M-0841080
	Miniblock	24 782 01
	Gasket Set	24 755 03

Ref. No.	Description	Part No.

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Gear Box Assembly No. 94-4641

Ref. No.	Part No.	Qty.	Description



T-1236

Hydraulic Pump Assembly No. 98-1957

Ref. No.	Part No.	Qty.	Description
1	80-6120	1	Check Valve Kit (Incl. Ref. #2-4)
2		2	Seal - O-Ring
3		2	Spring
4		2	Poppet
5		1	Journal - Bearing
6		1	Gasket - End Cap
7		1	Cylinder Block Kit (Incl. Ref. #8-10 & 27-29)
8		1	Spring
9		1	Washer
10		1	Ring - Retaining
11		1	Plate - Thrust
12		1	Arm - Trunnion
13		1	Guide - Slot
14		2	Cradle - Bearing
15		2	Pin
16		1	Seal - Lip
17		1	Journal - Bearing
18		1	Housing - Assembly (Incl. Ref. #16 & 17)
19		1	Shaft
20		2	Ring - Retaining
21		1	Bearing - Ball
22		1	Spacer

Ref. No.	Part No.	Qty.	Description
23		1	Seal - Lip
24		1	Ring - Retaining
25		1	Swashplate Assembly
26		1	Roller - Thrust
27		5	Piston
28		5	Washer - Thrust
29		5	Spring - Piston
30		4	Screw
31		1	End Cap Assembly (Incl. Ref. #5)
32		1	Ball
33		1	Spring
34		2	Screw
35		1	Housing - Charge Pump
36		1	Gerotor Assembly
37		1	Seal - O-Ring
38		1	Seal - O-Ring
39		1	Ring - Back-Up
40		1	Valve - Bypass
*	80-6110	1	Charge Relief Valve Kit (Incl. Ref. #32-33)
*	80-6130	1	Overhaul Seal Kit (Incl. Ref. #6, 10, 16, 20, 23 & 37-39)

*Not Illustrated

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102950	3	3:2	1	Washer
105805	3	3:1	1	Nut
106948	3	19	1	Tray—Battery
106950	4	23	2	Bushing
111216	3	2	1	Switch—Ignition
113010	3	12	1	Hold Down
113050	3	5	1	Cover—Switch
113179	3	3:3	1	Nut
113697	9	27	2	Eye Bolt
114511	11	29	1	Spacer
116397	3	32	5	Relay
9201604	3	2:2	1	Washer—Lock
9202204	11	11	1	Washer
9202574	9	5	A/R	Washer—Flat
5-0698	11	13	1	Key
10-6850	4	14	2	Drum Brake
10-6870	4	15	2	Hub—Wheel
12-5450	10	3	2	Screw—Thread Forming
24-0760	2	10	1	Exchanger—Heat
26-3790	4	16	2	Nut—Lock
27-2320	9	16	2	Bearing
27-6230	11	1	1	Bolt—Wheel
28-3893	3	17	1	ASM—Wire
28-8080	3	14	1	Boot—Terminal
42-9430	10	8	1	Bolt w/Washer
42-9850	10	27	2	Washer—Lock
48-8020	10	9	1	Washer—Lock
52-2480	7	41	2	Spacer
52-5260	1	35	2	Rubber Pad
62-7650	2	19	1	Gasket
62-7770	3	36	2	Key—Ignition
63-8410	7	16	2	Washer—Flat
66-0120	2	3	1	Knob
66-4210	11	26	1	Pulley—Idler
67-7490	11	41	1	Key
67-8110	5	9	1	Filter—Oil
70-9840	4	17:5	4	Brake Shoe
70-9860	4	17:2	2	Cam Shaft
70-9870	4	17:1	2	Plate—Backing
70-9880	4	17:4	4	Spring—Return
71-1500	4	17	2	Brake ASM
74-0720	7	21	1	Tube—Manual
76-0800	6	45	2	Seal Kit—Wheel Motor
78-0020	3	4	1	Hourmeter
78-3320	3	4:1	1	Clamp—Hour Meter
80-6090	11	37	2	Key—Square
80-8170	11	36	2	Pulley—Pump
84-2000	4	20	2	Bracket—Brake
85-6540	4	13	8	Stud
86-9080	5	11	1	Head—Filter
88-6460	11	25	1	Spring—Extension
92-1705	5	28	1	Screen—Filter
92-6280	7	9	1	Seat ASM
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92-6534	7	9:1	1	Shell—Seat
92-6780	10	14	4	Nut—HHF
92-9811	3	3	1	Switch—Toggle
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*Not Illustrated

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93-3101	2	20	1	Gas Cap
93-4365	5	27	1	Oil Cap
93-5107	2	9	2	Fitting-Adapter
93-7340	7	10	1	Decal-Toro
93-9198	1	24	1	Decal-Warning
93-9198	8	49	1	Decal-Warning
94-1867	3	13	1	Battery
94-4602	4	2	1	Lever-Brake
94-4607	11	18	1	Belt-Pump Drive
94-4608	11	19	1	Belt-PTO
94-4618-03	1	1	1	Support-Engine
94-4628	11	14	1	Engine-Pulley
94-4629	11	32	1	Clutch-Pulley
94-4632	11	20	1	Clutch ASM
94-4635-01	8	45	1	Plate-, Console Support
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94-4641	11	34	1	Gearbox-PTO Drive
94-4642-03	5	23	1	Strap-Hydraulic Tank
94-4647-01	1	17	1	Castor Fork
94-4658-03	11	6	1	Pump-Mount
94-4665	1	11	1	Dustcap
94-4672-03	7	13	1	Latch
94-4678	5	4	2	Arm-Pump Control
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94-4698	7	1	1	Console
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94-4700	5	29	1	Tank-Hydraulic
94-4701-03	5	5	1	Plate-Control
94-4702-03	5	7	1	Plate-Control
94-4705	5	38	2	Hose ASM
94-4709	5	21	1	Hose ASM-Hyd
94-4710	5	14	1	Hose ASM-Hyd
94-4712	5	8	1	Hose ASM-Hyd
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94-4792	11	5	1	Spacer-Idler Arm
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94-9386	1	26:3	2	Wheel
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94-9490	9	3	2	Grip-Cushion
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*Not Illustrated

Toro Part Number Index (cont.)

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94-9517-03	9	2	1	Handle-Control LH
94-9524	9	1	1	Spacer-Control
94-9525-03	5	15	1	Angle-Mount
94-9529-01	7	40	1	Plate-Seat
94-9551	9	7	1	Handle-Control RH
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94-9561-03	10	11	1	Bracket-Manifold Shield
94-9573-01	4	26	2	Mount-Lever
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94-9591-03	9	32	1	Mount-Channel
94-9593	9	34	2	Spacer-Damper
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95-1950	11	3	1	Arm ASM
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98-1306	7	14	1	Decal-No Riders
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98-1968	10	7	1	Rear Heat Baffle ASM
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98-1985	8	52	1	Latch-ASM
98-1988	4	12	1	Torsion Shaft ASM
98-1990	4	8	1	Transfer Shaft ASM
98-1991	4	11	2	Link-Connect
98-1992	4	6	2	Link-Brake
98-1994	4	10	1	Brake Hub ASM
98-1995	7	29	1	Bumper
98-1996	4	25	2	Rod-Brake
98-1997	4	30	1	LH Brake Lever ASM
98-1998	4	24	1	RH Brake Lever ASM
98-1999-03	7	5	1	Panel-Instrument
98-3317	3	1	1	Harness-Wire
98-4350	2	2	1	Control-Throttle
98-4351	1	23:2	1	Wheel ASM
98-4357	7	3	1	Decal-Instrument
98-4361	1	36	1	Decal-Warning
98-4367	4	34	2	Clevis-Adjustable

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98-4375	5	37	1	Pump-Hydraulic
98-4383	1	19	1	Decal-Patent Numbers
98-4384	5	13	2	Hose ASM - Hyd
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237-22	5	32:1	2	O-Ring
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237-30	5	1:1	2	O-Ring
237-30	5	10:1	1	O-Ring
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237-30	5	31:1	3	O-Ring
237-30	5	33:1	4	O-Ring
237-42	5	20:2	1	O-Ring
237-42	5	36:2	1	O-Ring
237-78	5	32:2	2	O-Ring
237-79	5	10:2	1	O-Ring
237-79	5	12:2	2	O-Ring
237-79	5	33:2	4	O-Ring
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237-80	5	31:2	3	O-Ring
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242-50	1	27	8	Nut-Lug
2411-52	9	11	2	Rod-End RH
2411-53	9	20	2	Rod-End LH
2412-39	2	12	4	R-Clamp
2412-93	3	28	1	R-Clamp
2412-98	2	29	2	Clamp-Hose
2412-120	7	22	2	Clamp-R
254-61	1	7	2	Cup-Bearing
254-62	1	8	1	Cone-Bearing
254-70	1	5	1	Bearing w/Cone & Seal
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283-1	4	5	8	Pin-Clevis
283-66	9	26	4	Pin-Clevis
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302-5	9	37	3	Fitting-Grease
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321-4	3	27	5	Screw-HH
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322-11	8	51	1	Screw-HH
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323-5	10	22	3	Screw-HH
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*Not Illustrated

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323-9	2	25	4	Screw-HH
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3256-8	1	13	1	Washer-Flat
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3256-21	8	50	2	Washer-Flat
3256-22	3	15	4	Washer-Flat
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3256-24	7	12	3	Washer-Flat
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340-94	5	20	1	Tee
340-97	5	32	2	Fitting-Hydraulic
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MAINTENANCE RECORD

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MAINTENANCE RECORD

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PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit, which is not reflected in your manual, see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

COUNTRIES OTHER THAN THE UNITED STATES OR CANADA

Customers who have purchased TORO products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province or state. If for any reason you are dissatisfied with your Distributor's

service or have difficulty obtaining guarantee information, contact the TORO importer. If all other remedies fail, you may contact us at The Toro Company.

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