

CHAIN SAW

UT10184,R
UT10400,R
UT10439,R
UT10452,2,4
UT10531
UT10547
UT10554
UT10555

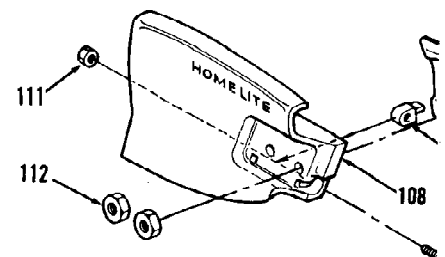
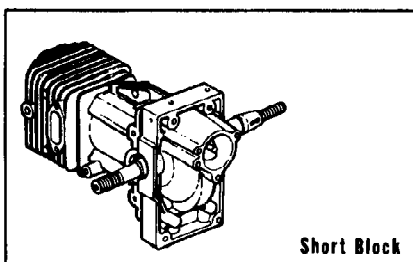
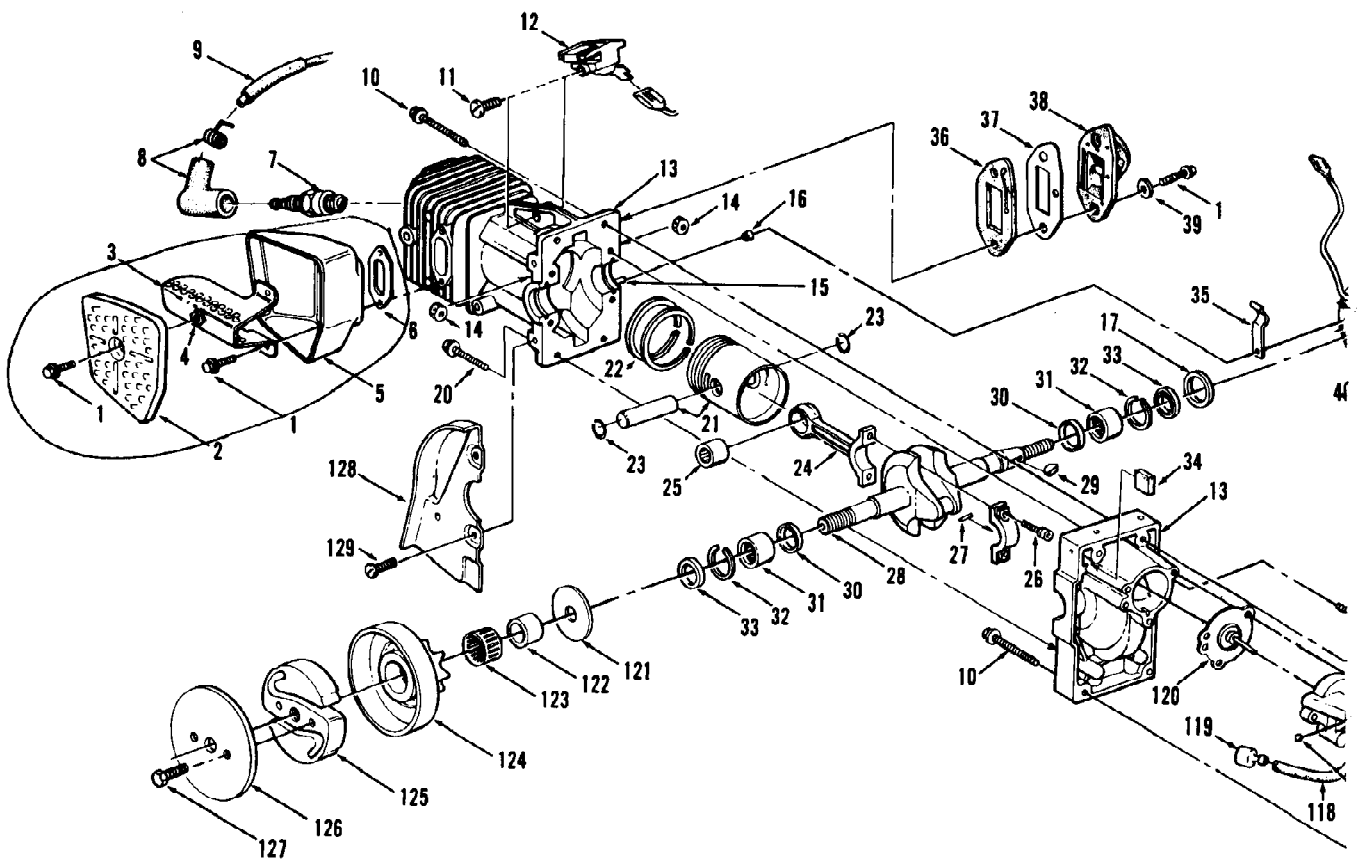
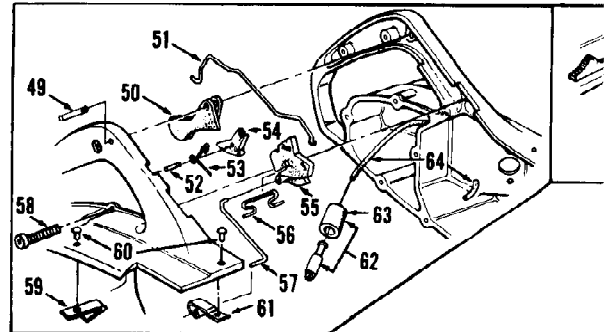
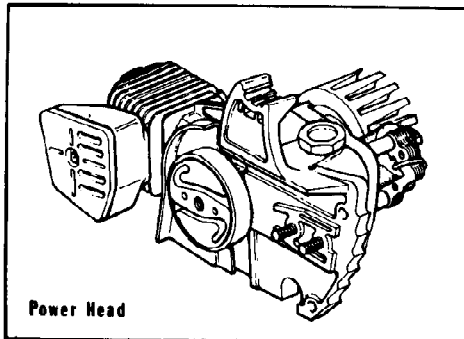


PARTS LIST

PRICE .35

PART NO. 24535
REVISION 1

PRINTED IN U.S.A.



This diagram is an exploded view of a mechanical device, possibly a vacuum cleaner or a similar suction-based appliance. The main components and their assembly points are indicated by numbered callouts:

- Motor and Drive Assembly:** Includes the motor (45), fan (46), and various gears and shafts (19, 41, 42, 43, 44, 47).
- Body and Housing:** The main body (48) houses the motor and fan. It includes a top cover (77) and a filter (78).
- Filter and Air Flow Components:** The filter (78) is connected to a duct (79) and a hose (92). The hose is secured with clamps (82, 83) and a bracket (84).
- Fasteners and Connectors:** Numerous screws, bolts, and washers are shown, such as 68, 69, 70, 71, 72, 73, 74, 75, 76, 80, 81, 85, 86, 87, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117.
- Inset Diagram:** A small inset in the top left corner shows a detail of the motor area with components 65, 66, and 67.

No.	Description	Part No.	Qty.	No.	Description	Part No.	Qty.
1	SCREW-hex washer hd., 8-32 x 1/2	80983	7	65	DEFLECTOR-air	68534	1
2	CAP-muffler (diffuser type)	68956-1	1	66	BUSHING-flanged	68560	2
	CAP-muffler - accessory - louver type	68547-1	1	67	SCREW-hex washer hd., 10-32 x 2	82224	2
	WC ARRESTOR-spark (accessory-not shown)	A-68666-1	1	68	CAP-fuel filler	A-69500	1
3	BAFFLER-muffler	A-68564	1		Includes:		
	Includes:			69	FILTER-filler cap	69454	1
4	NUT-clinch, 8 x 32	81224	1	70	VALVE-check	69451	1
5	BODY-muffler	68545-1	1	71	GASKET-fuel filler cap (note 4)	69501	1
6	GASKET-muffler	68542	1	72	CHAIN-bead	69502	1
7	SPARK PLUG	68616-S	1	73	SCREW-pan hd., 6 x 1/4 Plastite	82256	1
8	TERMINAL-high tension lead	A-55373-A	1	74	RETAINER-filler cap (note 4)	69503	1
9	SLEEVE-wire (fiberglass)	68625	1	75	BUTTON-choke	68551	1
10	SCREW-hex washer hd., 8-32 x 1-1/4	82194	4	*76	SCREW-Sems hex hd., slotted, 10-24 x 5/8	69335-A	4
11	SCREW-pan hd., Plastite, 6 x 3/8	82215	2	77	ELEMENT-air filter	68532	1
12	TERMINAL & INSULATION	A-69341	1	78	COVER-air filter	68631-A	1
	SHORT BLOCK	A-68624-C	1	79	SCREW-filter cover retaining	68535	1
	Includes:			80	SCREW-hex washer hd.	80983	3
13	CYLINDER & CRANKCASE (note 1)	A-68643-C	1		STARTER-complete	A-68611-A	1
	Includes:				Includes:		
14	NUT-hex centerlock, 8-32	81223	4	81	HOUSING-starter	A-68523-A	1
15	PIN-dowel	64309	1	*82	INSERT-starting rope	68837-A	1
16	SEAL-post	69445	1	*83	GRIP-starting rope	64155-B	1
*17	SEAL	69973	1	84	SPRING-rewind	65107	1
18	SCREW-Sems hex hd., 8-32 x 1	88021	4	85	RETAINER-rewind spring	68612	1
19	POINTS-breaker (note 2)	A-69483	1	86	PULLEY-starter	A-68645	1
20	SCREW-hex washer hd., 8-32 x 3/4	82248	2	87	ROPE-starter, #4 (42" in length)	68528	1
21	PISTON & PIN	A-68642	1	88	SPACER-carburetor	68537	1
	Includes:			89	CARBURETOR-Walbro HDC 20	A-69957	1
22	RING-piston	68508	2	90	SPRING-choke	68584-A	1
23	RING-retaining	64813	2	91	ROD-choke	68552	1
24	ROD-connecting	A-68518	1	92	HANDLE BAR	A-68599-1	1
	Includes:			93	SCREW-hex washer hd.	82218	3
25	BEARING-needle	68512	1	94	COIL-ignition	A-68649	1
*26	SCREW-cap hex socket hd.	69919	2		Includes:		
27	BEARING-needle (set 18)	A-68511	1	95	LEAD-hi tension	68629	1
28	CRANKSHAFT	68507-1	1		RETAINER-coil (not shown)	68257	1
29	KEY-woodruff	65126	1	96	SCREW-hex washer hd.	82248	2
30	BEARING-thrust	68509	2	97	CORE-coil	A-68648	1
31	BEARING-roller	68513	2		Includes:		
32	RING-retaining	68514	2		RETAINER-coil (not shown)	68257	1
33	SEAL-shaft	68519	2	98	CONDENSER	68543	1
34	COVER-vent	68990	1	99	BLOCK-junction	68613	1
35	CLAMP-hi-tension lead	68623	1	100	CAP-oil filler	A-68557	1
36	GASKET-intake	68484	1		Includes:		
37	COVER-pulse	68671	1	101	GASKET-oil filler cap	68533	1
*38	MANIFOLD-intake	A-68520-1	1	*102	TANK-oil (note 6)	A-68609-2A	1
39	WASHER-flat, 7/16 x 3/16 x 1/16	84103	2		Includes:		
40	BOX-breaker (note 2)	A-69533	1	103	BALL-stainless steel	55217	1
	Includes:			104	BOLT-guide bar, 5/16	58753	2
	SEAL-post (index #16)	69445	1	105	NUT-hex centerlock, 10-24	81208	1
	SEAL (index #17)	69973	1	*106	PLATE-guide bar (inner)	67300-A	1
41	SCREW-pan hd., Plastite, 6 x 3/8	82215	1	*107	PLATE-guide bar (outer)	67299-A	1
42	TERMINAL-ground	68591	1	108	COVER-drivecase	A-68614-1	1
43	SCREW-pan hd., 6-32 x 3/8	80571	3		Includes:		
44	COVER-breaker box	A-68592	1	109	PIN-guide bar adjusting	65112-1	1
	Includes:			110	SCREW-guide bar adjusting	65175-A	1
45	SEAL-breaker box cover	68618-A	1	111	NUT-hex centerlock, 10-32	81206	1
46	ROTOR	68530	1	112	NUT-hex, 5/16-18	81196	2
47	NUT-rotor (left hand thread)	A-68610	1	*113	GASKET-oil tank	68589-B	1
*48	ENGINE COVER	A-68644-1	1	114	SCREW-oiler spring	68619	1
	Includes:			115	SPRING-check valve	68570	1
49	PIN-trigger	68548	1	116	BALL-check valve	60051	2
50	TRIGGER-throttle	68549	1	117	PUMP-automatic oil (note 7)	A-69363	1
51	ROD-throttle	68550	1	118	LINE-oil pick-up	68561	1
52	PIN-trigger latch	68641	1	119	FILTER-oil	A-68593	1
53	SPRING-throttle latch	68626	1	*120	PLUNGER-oil pump (note 7)	A-68583-B	1
54	LATCH-throttle	68635	1	121	WASHER-thrust	65064	1
55	BUTTON-stop switch	68580	1	122	RACE-inner	65746-A	1
56	SPRING-switch	68581	1	123	BEARING-roller	64124	1
57	LINK-grounding switch	68576	1	124	SPROCKET & DRUM	A-65033	1
58	SCREW-fil. hd., 8-32 x 5/8	82146	8	*	CLUTCH & PLATE	A-69953	1
59	CLAMP-hi tension lead	68639	1		Includes:		
60	RIVET-tubular (steel)	85061	2	125	CLUTCH	68362-1A	1
61	CONTACT	68577	1	126	PLATE-clutch	69915	1
*62	FILTER-fuel	A-69923	1	127	SCREW-hex hd., 10-24 x 1/2, stainless steel	82286	2
	Includes:					68596	1
63	ELEMENT-felt filter (note 3)	64083-1	1	128	SHIELD-sawdust	82195	3
64	LINE-fuel pick-up	68562	1	129	SCREW-pan hd., Taptite, 8-32 x 5/16		

* Denotes new parts

ALWAYS FURNISH MODEL AND SERIAL NUMBER WHEN ORDERING PARTS.

A-69957 HDC-20

No.	Description	Part No.	Qty.
1	SCREW-fuel pump cover	67374	1
2	COVER-fuel pump	67361	1
3	GASKET-fuel pump	†67368	1
4	DIAPHRAGM-fuel pump	†67370	1
* 5	STOP-throttle (see note)	68958	1
6	SCREW-valve	†67372	3
7	SHAFT-choke	68632	1
* 8	NEEDLE-idle adjustment (see note)	68959	1
9	SPRING-needle adjustment (idle)	12199	1
10	NEEDLE-mixture adjustment	†68637	2
11	SPRING-needle adjustment	†67377	2
12	SCREEN-fuel inlet	†64243	1
*13	VALVE-throttle (see note)	68961	1
14	SPRING-throttle return	†67376	1
15	SHAFT-throttle	68636	1
16	VALVE-choke	67365	1
17	BALL-choke valve	†60051	1
18	SPRING-choke friction	†64238	1
19	SCREEN-check valve	†67381	1
20	RING-screen retaining	†67360	1
21	GASKET-circuit plate	†67367-A	1
22	NEEDLE-inlet	†64229	1
23	SPRING-metering lever	†12249	1
24	LEVER-metering	†67383	1
25	PLATE-circuit	67382	1
26	SCREW-circuit plate	67375	2
27	GASKET-metering diaphragm	†64231	1
28	DIAPHRAGM-metering	†67371	1
29	COVER-metering diaphragm	64224	1
30	SCREW-metering cover	64689	4
*31	REPAIR KIT (see note)	68960	1
32	GASKET SET	†67369-A	1
	REPAIR KIT-check valve	65386	1

* Denotes new parts
† Indicates contents of Repair Kit #68960
‡ Indicates contents of Gasket Set #67369-A

ACCESSORIES

ARRESTOR-spark	A-68666-1
CAP-muffler - louver type	68547-1
*DECAL SET	A-69048-A
Includes: (four)	
"CHAIN OIL", "ON-OFF", "Starting Instructions", and "150 Automatic"	
GREASE-all temp multi purpose	24551
KIT-hand guard	A-69472
Includes:	
LOCKWASHER-internal	83025
SCREW-slotted hex hd., trimmed, 10-24 x 5/8	82249
SPACER	69474
WASHER-cupped spring	69475
KIT-spiked bumper	A-68655
Includes:	
2 NUTS-centerlock hex., 10-32	81206
2 SCREWS-10-32 x 1/2	80648
ROPE-starting, #4 size, 250 ft. reel	68848

PAINT

Paint-black, 12 oz. spray can	22772
Paint-red, 12 oz. spray can	23475
CASE-carrying	A-68936

NOTE: SLEEVE-68617 to be used only on units prior to s/n 42411583

TOOLS

GAGE-feeler (.015 pink plastic)	22486
LOCTITE	23488-B
PLUG-installation bearing	23756
PULLER-magneto rotor	A-24544
Includes:	
4 NUTS-hex centerlock, 10-32	81206
4 SCREWS-hex hd. spinlock, 10-32 x 1-3/8	82162
4 WASHERS-flat, #10	84003-1
SCREWDRIVER	24541
SHIM-(.0125 black plastic)	24306
SPACER-plug	24548
WRENCH-socket	68651
WRENCH-spanner (clutch)	A-23696-A
Includes:	
PN-clutch spanner	23717-A

NOTE 1 - On cylinder and crankcase A-68643, A-68643-A, and A-68643-B built prior to s/n 42411583, see Branch Service Memo #912CS and Dealer Service Memo #600 for conversion to new design to eliminate use of bumper sleeve 68617 and vent passage.

NOTE 2 - Units prior to s/n 30271001 use: breaker points A-68646 breaker box A-68647

NOTE 3 - Use with washer 64182 only in fuel pick-up A-63920

NOTE 4 - With fuel filler cap A-65283-B use: gasket 68961 and retainer 68751

NOTE 5 - Units prior to s/n 23080585 use: screw 82216

NOTE 6 - Units prior to s/n 13350722 use: oil tank A-68609-A

NOTE 7 - Units with oil pump A-68583 and A-68583-A require 2 gaskets 68650-A

Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.
12199	Spring-needle	1	68513	Bearing-roller	2	A-68645	Pulley-starter	1
12249	Spring-metering lever	1	68514	Ring-retaining	2	A-68648	Core-coil	1
22486	Gage-feeler	1	A-68518	Rod-connecting	1	A-68649	Coil-ignition	1
22772	Paint-black	1	68519	Seal-shaft	2	68651	Wrench-socket	1
23475	Paint-red	1	*A-68520-1	Manifold-intake	1	A-68655	Kit-spiked bumper	1
23488-B	Loctite	1	A-68523-A	Housing-starter	1	A-68666-1	Arrestor-spark	1
A-23696-A	Wrench-spanner	1	68528	Rope-starter #4	1	68671	Cover-pulse	1
23756	Plug-installation	1	68530	Rotor	1	*68837-A	Insert-starting rope	1
23717-A	Pin-clutch spanner	1	68531-A	Cover-air filter	1	68848	Rope-starting	1
24306	Shim	1	68532	Element-air filter	1	A-68936	Case-carrying	1
24541	Screwdriver	1	68533	Gasket-oil filler cap	1	68956-1	Cap-muffler	1
A-24544	Puller-magneto rotor	1	68534	Deflector-air	1	68990	Cover-vent	1
24548	Spacer-plug	1	68535	Screw-filter cover	1	*A-69048-A	Decal Set	1
24551	Grease	1	68537	Spacer-carburetor	1	A-69341	Terminal & Insulation	1
55217	Ball-stainless steel	1	68542	Gasket-muffler	1	A-69363	Pump-automatic oil	1
A-55373-A	Terminal-high tension	1	68543	Condenser	1	69445	Seal-post	1
58753	Bolt-5/16	2	68545-1	Body-muffler	1	69451	Valve-check	1
60051	Ball-check valve	3	68547-1	Cap-muffler	1	69454	Filter-filler cap	1
64083-1	Element-felt filter	1	68548	Pin-trigger	1	A-69472	Kit-hand guard	1
64124	Bearing-roller	1	68549	Trigger-throttle	1	69474	Spacer	1
*64155-B	Grip-starting rope	1	68550	Rod-throttle	1	69475	Washer-cupped spring	1
64224	Cover-metering	1	68551	Button-choke	1	A-69483	Points-breaker	1
64229	Needle-inlet	1	68581	Spring-switch	1	A-69500	Cap-fuel filler	1
64231	Gasket-metering	1	68584-A	Spring-choke	1	69501	Gasket-fuel filler	1
64238	Spring-choke	1	68552	Rod-choke	1	69502	Chain-bead	1
64243	Screen-fuel inlet	1	A-68557	Cap-oil filler	1	69503	Retainer-filler cap	1
64309	Pin-dowel	1	68560	Bushing-flanged	2	A-69533	Box-breaker	1
64689	Screw-metering cover	4	68561	Line-oil pick-up	1	69915	Plate-clutch	1
64813	Ring-retaining	2	68562	Line-fuel pick-up	1	A-69923	Filter-fuel	1
A-65033	Sprocket & Drum	1	A-68564	Baffle-muffler	1	*A-69953	Clutch & Plate	1
65064	Washer-thrust	1	68570	Spring-check valve	1	A-69957	Carburetor-Walbro	1
65107	Spring-rewind	1	68576	Link-grounding	1	*69958	Stop-throttle	1
65112-1	Pin-guide bar	1	68577	Contact	1	*69959	Needle-idle adjustment	1
65126	Key-woodruff	1	68580	Button-stop switch	1	*69960	Repair Kit	1
65175-A	Screw-guide bar	1	*A-68583-B	Plunger-oil pump	1	*69961	Valve-throttle	1
65386	Repair Kit	1	*68589-B	Gasket-oil tank	1	*69973	Seal	1
65746-A	Race-inner	1	68591	Terminal-ground	1	FASTENING PARTS		
*67299-A	Plate-guide bar	1	A-68592	Cover-breaker box	1	*69335-A	10-24 x 5/8	4
*67300-A	Plate-guide bar	1	A-68593	Filter-oil	1	*69919	Screw-cap socket hd.	2
67360	Ring-screen retaining	1	68596	Shield-saw dust	1	80571	6-32 x 3/8	3
67361	Cover-fuel pump	1	A-68599-1	Handle Bar	1	80648	10-32 x 1/2	2
67365	Valve-choke	1	*A-68609-2A	Tank-oil	1	80983	8-32 x 1/2	10
67367-A	Gasket-circuit plate	1	A-68610	Nut-rotor	1	81196	Nut-5/16-18	2
67368	Gasket-fuel pump	1	A-68611-A	Starter-complete	1	81206	Nut-10-32	7
67369-A	Gasket Set	1	68612	Retainer-rewind	1	81208	Nut-10-24	1
67370	Diaphragm-fuel pump	1	68613	Block-junction	1	81223	Nut-8-32	4
67371	Diaphragm-metering	1	A-68614-1	Cover-drivecase	1	81224	Nut-8-32	1
67372	Screw-valve	3	68616-S	Spark Plug	1	82146	8-32 x 5/8	8
67374	Screw-fuel pump	1	68618-A	Seal-breaker box	1	82162	10-32 x 1-3/8	4
67375	Screw-circuit plate	2	68619	Screw-oiler spring	1	82194	8-32 x 1-1/4	4
67376	Spring-throttle	1	68623	Clamp-hi tension	1	82195	8-32 x 5/16	3
67377	Spring-needle adj.	2	A-68624-C	Short Block	1	82215	6 x 3/8	3
67381	Screen-check valve	1	68625	Sleeve-wire	1	82218	Screw-hex washer hd.	3
67382	Plate-circuit	1	68626	Spring-throttle latch	1	82224	10-32 x 2	2
67383	Lever-metering	1	68629	Lead-hi tension	1	82248	8-32 x 3/4	4
68257	Retainer-coil	1	68632	Shaft-choke	1	82249	10-24 x 5/8	1
68362-1A	Clutch	1	68635	Latch-throttle	1	82256	6 x 1/4	1
68464	Gasket-intake	1	68636	Shaft-throttle	1	82286	10-24 x 1/2	2
68507-1	Crankshaft	1	68637	Needle-mixture	2	83025	Washer-lock	1
68508	Ring-piston	2	68639	Clamp-hi tension lead	1	84003-1	Washer-#10	4
68509	Bearing-thrust	2	68641	Pin-trigger latch	1	84103	7/16 x 3/16 x 1/16	2
A-68511	Bearing-needle	1	A-68642	Piston & Pin	1	85061	Rivet-tubular	2
68512	Bearing-needle	1	A-68643-C	Cylinder & Crankcase	1	88021	8-32 x 1	4
			A-68644-1	Engine Cover	1			

* Denotes new parts

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