

PARTS & ACCESSORY MANUAL

MODEL

EH90 / EH99 ENGINE

EH900DS0010 35 H.P. 1-7/16 HD AC

EH900DS0020 35 H.P. 1 7/16 STD.

EH900DS0030 35 H.P. 1 1/8 STD.

EH900DS0040 35 H.P. 1 1/8 HD AC

EH990DS0010 40 H.P. 1 7/16 HD AC

EH990DS0020 40 H.P. 1 7/16 STD.

EH990DS0030 40 H.P. 1 1/8 STD.

EH990SD0040 40 H.P. 1 1/8 HD AC

PUB-EP 2969

Rev . 4/1/14

905 Telser Rd. • Lake Zurich, IL 60047 • Phone: 847-540-7300 • Fax: 847-438-5012
e-mail: sales@subarupower.com • www.subarupower.com

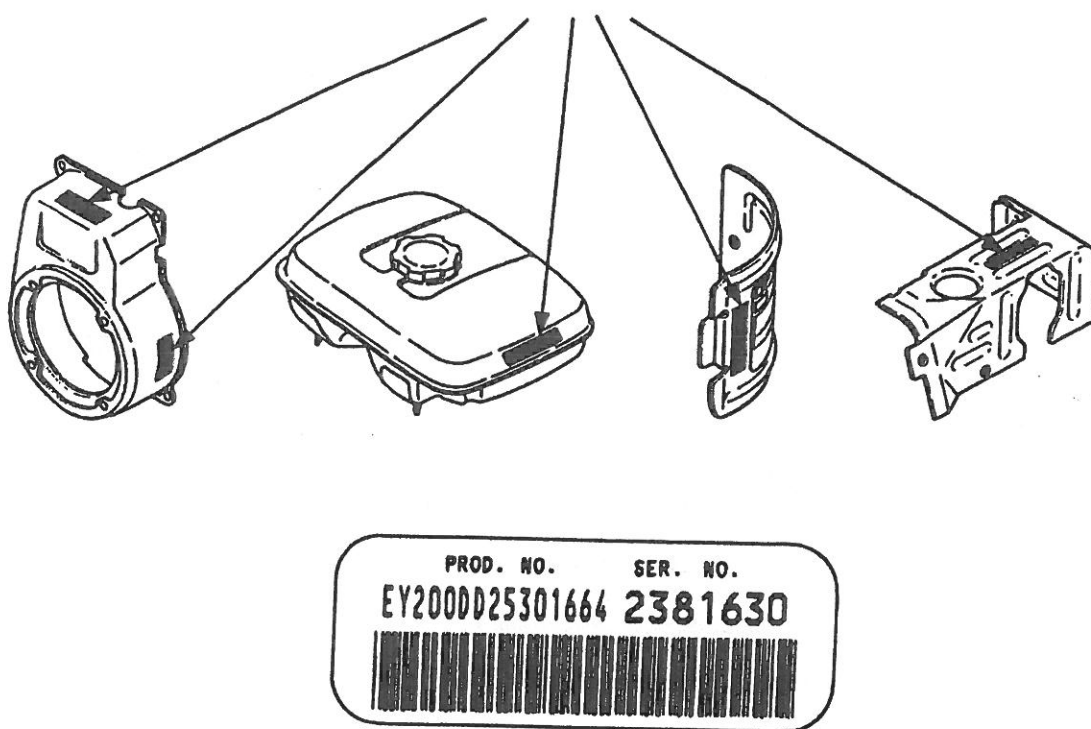
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HOW TO USE THIS MANUAL

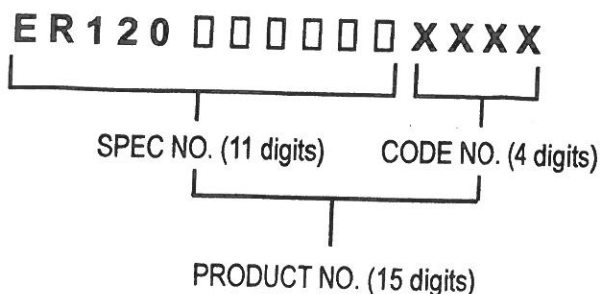
Robin engines are identified by **MODEL**, **SPECIFICATION**, and **CODE NUMBER**. For each model there may be many different versions called specifications. Each specification will be unique in some way. The difference may only be the paint color or it may have a different type of PTO or some other significant difference.

In order to identify the correct service part number, it is important to confirm the specification and code numbers for your engine. The specification and code number together are known as the **PRODUCT NUMBER**.

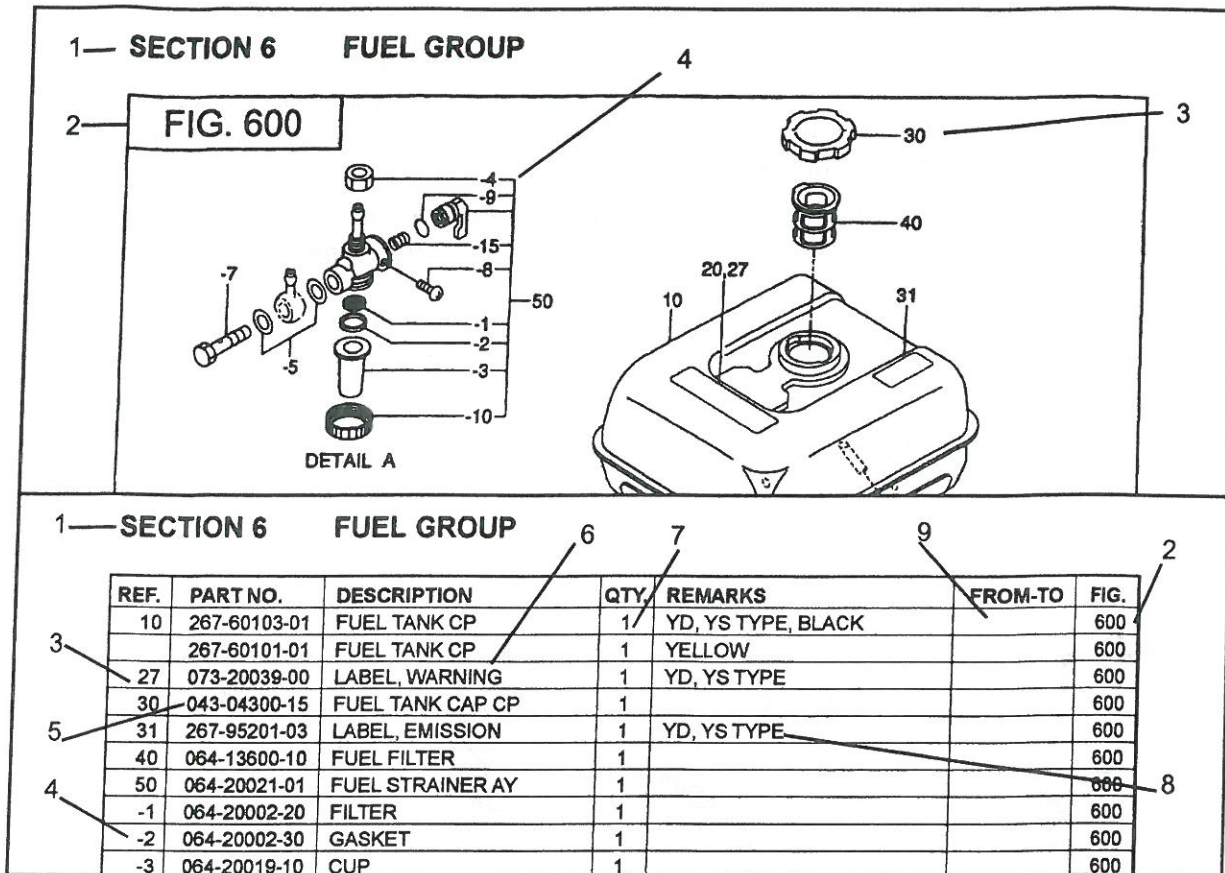
All Robin 4 cycle engines have a Product Number label similar to the label illustrated below.



The Product Number Label has a 15 digit alphanumeric string that consists of the **SPECIFICATION (SPEC)** number (11 digits) and the **CODE** number (4 digits). Please note the illustration below:



MANUAL LAYOUT



1. SECTION NAME Parts are broadly classified according to their functions. Refer to the Group Index (table of contents) for respective section name.
2. FIG. No. The FIG. number indexes the reference and part numbers to the illustration. Figure numbers that vary only in the tens place (i.e.: 700 and 710) are in a group of the same section (i.e.:Electrical Device Group).
3. REF. No. The Reference number identifies the part illustration with the corresponding part number in the part list.
4. SUBASSEMBLY SUBASSEMBLY parts of part assembly are listed below the assembly part. The subassembly part reference number is indicated by the number led by "-" such as "-1", "-2".
5. PART NUMBER It is the number assigned for sales unit. Use the PART No. when making an order.
6. DESCRIPTION It is designation of the part.
7. QTY. Quantity of each part used for each product.
8. REMARKS This gives a distinctive feature and/or a supplementary comment for the type, the specification, and the part concerned. It also shows part number(s) interchangeable for the part.
9. FROM-TO This section shows the CODE No. to indicate the history of progress in which improved parts have been introduced in the product. The FROM-TO CODE No. helps to identify PART No. being employed in the product concerned. See the examples below:

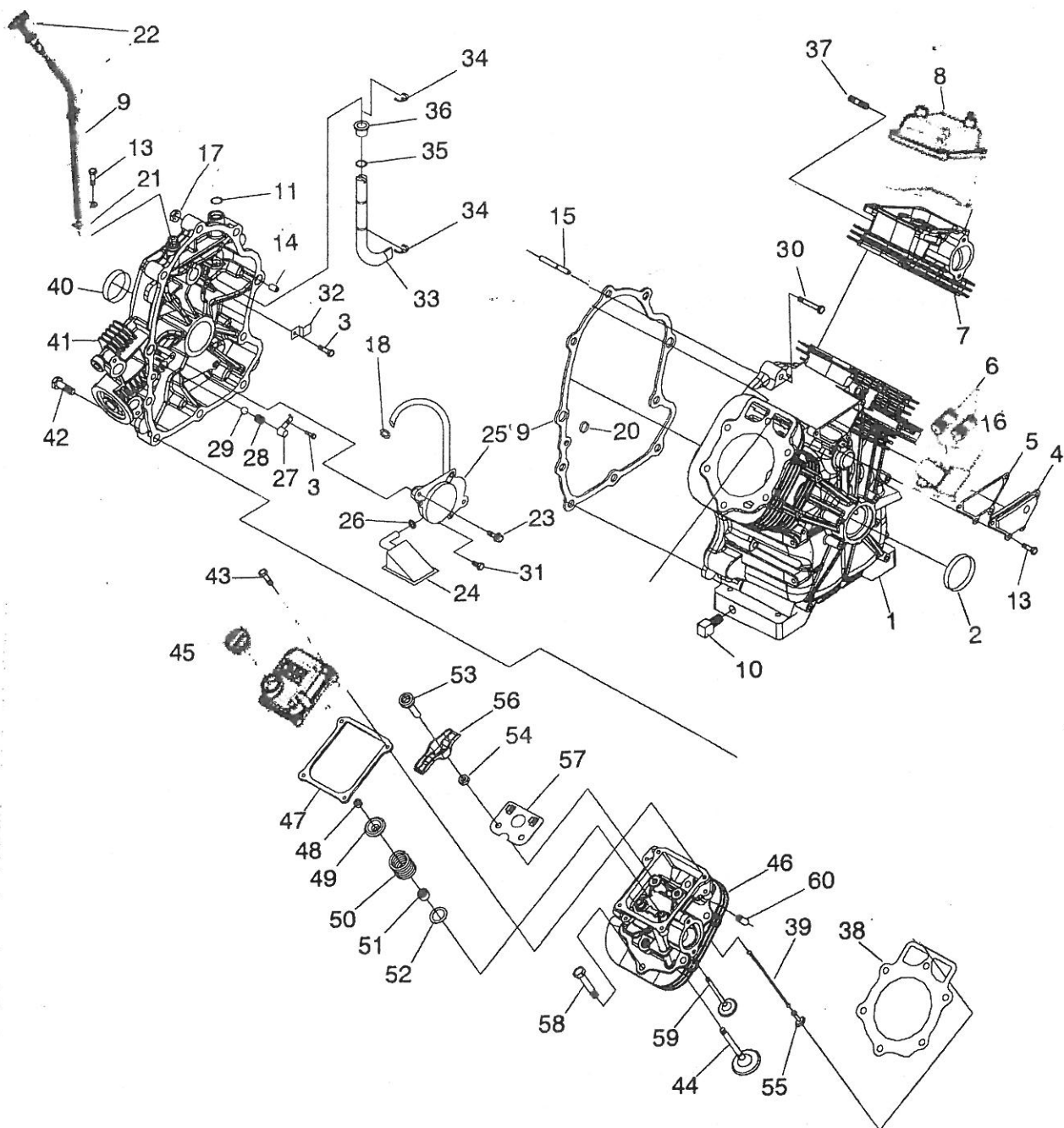
GROUP INDEX

GROUP NAME	Page
CRANKCASE GROUP	06
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COOLING & STARTING GROUP	18
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INDEX OF DESCRIPTION SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AY	ASSEMBLY	P=	PITCH (in mm)
CP	COMPLETE	P.T.O. (PTO)	POWER TAKE OFF
EX	EXPORT (from Japan)	REF.	REFERENCE
FIG.	FIGURE	R.H. (RH)	RIGHT HAND SIDE
FR.	FRONT	RR.	REAR
"	INCH	STD.	STANDARD
INCL.	INCLUDE	SW	SWITCH
~L	LITER	T=	THICKNESS (in mm)
L=	LENGTH (in. mm)	UN	UNIT
L.H. (LH)	LEFT-HAND SIDE	U.S.	UNDER SIZE
MECH.	MECHANICAL	~V	VOLTAGE
NO (NON)	NONE	~W	WATT
OPT.	OPTIONAL	W/	WITH
O.S.	OVER SIZE	W/O	WITHOUT

SECTION 1

CRANKCASE GROUP

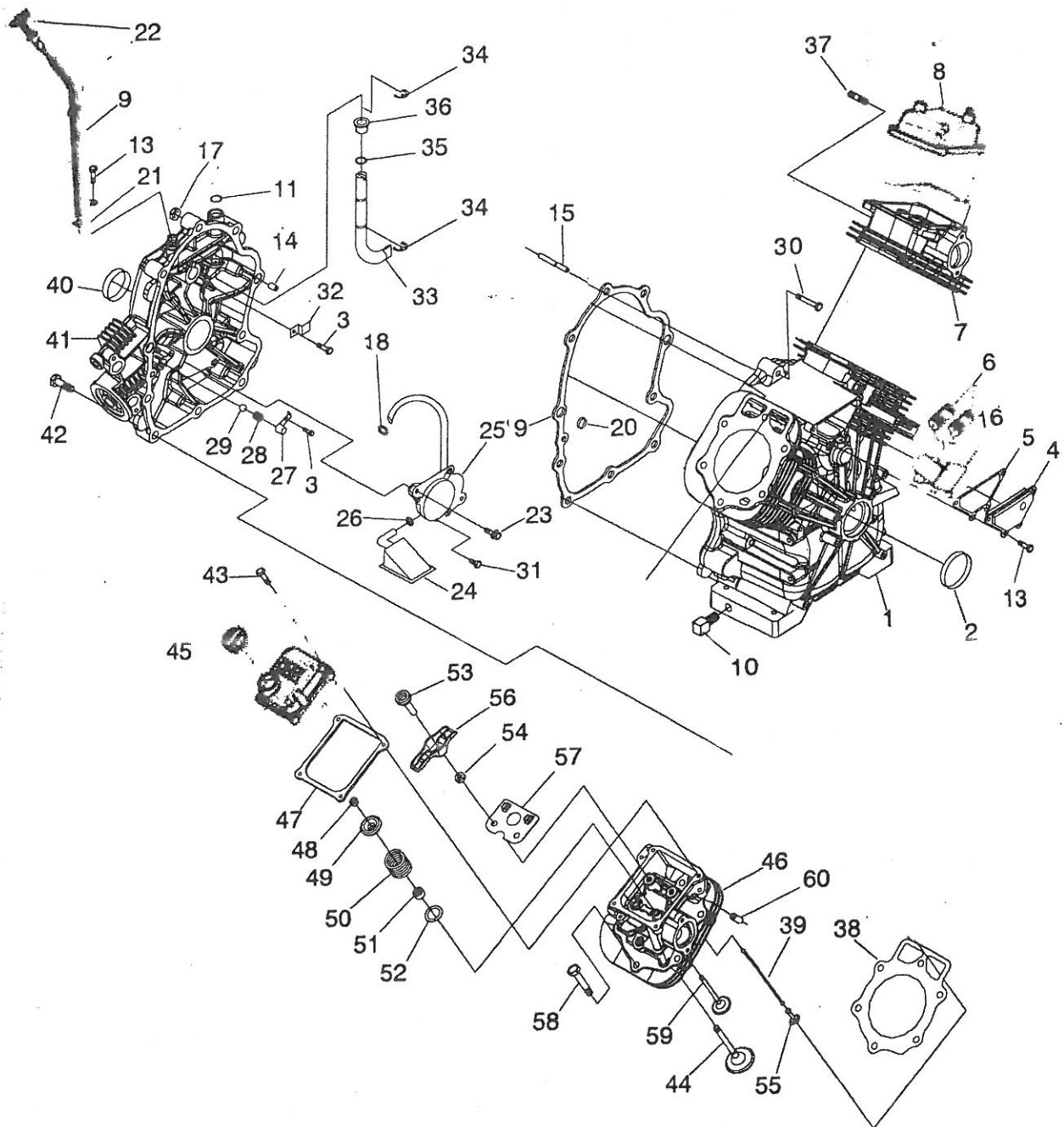


SECTION 1**CRANKCASE GROUP**

Ref	Part Number	Description	Qty	Remarks	Fig
1	22J-11854-80	CRANKCASE AY, WITH SLEEVE	1		100
2	22J-11153-40	SEAL, CRANKSHAFT	1		100
3	22J-11038-80	SCREW	3		100
4	22J-11910-00	BREATHER DUAL VALVE AY	1		100
5	22J-11300-50	GASKET, BREATHER COVER	1		100
6	22J-11332-20	SEPARATOR, OIL BREATHER	2		100
7	22J-11091-60	CYLINDER HEAD AY, 1	1		100
8	22J-11069-30	ROCKER COVER AY, W/PULSE BARB	1		100
9	22J-11927-20	TUBE,DIPSTICK	1		100
10	22J-11478-80	PLUG	1		100
11	22J-11299-30	SEAL, GOVERNOR SHAFT	1		100
12	22J-11272-30	ROCKER COVER, W/OIL FILL	1		100
13	22J-11614-70	SCREW	5		100
14	22J-11786-99	SLEEVE, DOWEL PIN	2		100
15	22J-11298-30	SHAFT, GOVERNOR	1		100
16	22J-11855-80	BREATHER DIVERTER	1		100
17	22J-11534-30	LOCKNUT	1		100
18	22J-11908-60	O-RING	1		100
19	22J-11297-70	GASKET, CRANK CASE	1		100
20	22J-11594-30	SEAL, OIL PASSAGE	1		100
21	22J-11302-70	O-RING 3/8 X 1/2	1		100
22	22J-11266-40	DIPSTICK AY	1		100
23	22J-11643-10	SCREW	2		100
24	22J-11609-80	SCREEN, OIL PICKUP	1		100
25	22J-11412-30	OIL PUMP AY, W/O O-RING	1		100
26	22J-11815-20	O-RING	1		100
27	22J-11301-11	COVER, OIL RELIEF	2		100
28	22J-11300-90	SPRING, OIL RELIEF	2		100
29	22J-11301-10	BALL, OIL RELIEF	2		100
30	22J-11048-60	SCREW	1		100
31	22J-11545-80	SCREW, PLASTITE HI-LOW	1		100
32	22J-11599-80	CLAMP, OIL TUBE	1		100
33	22J-11166-70	ARM, GOVERNOR	1		100
34	22J-11299-10	E-RING, GOVERNOR ARM	2		100
35	22J-11298-80	THRUST WASHER, GOVERNOR	1		100
36	22J-11299-20	BUSHING, GOVERNOR LEVER	1		100

SECTION 1

CRANKCASE GROUP

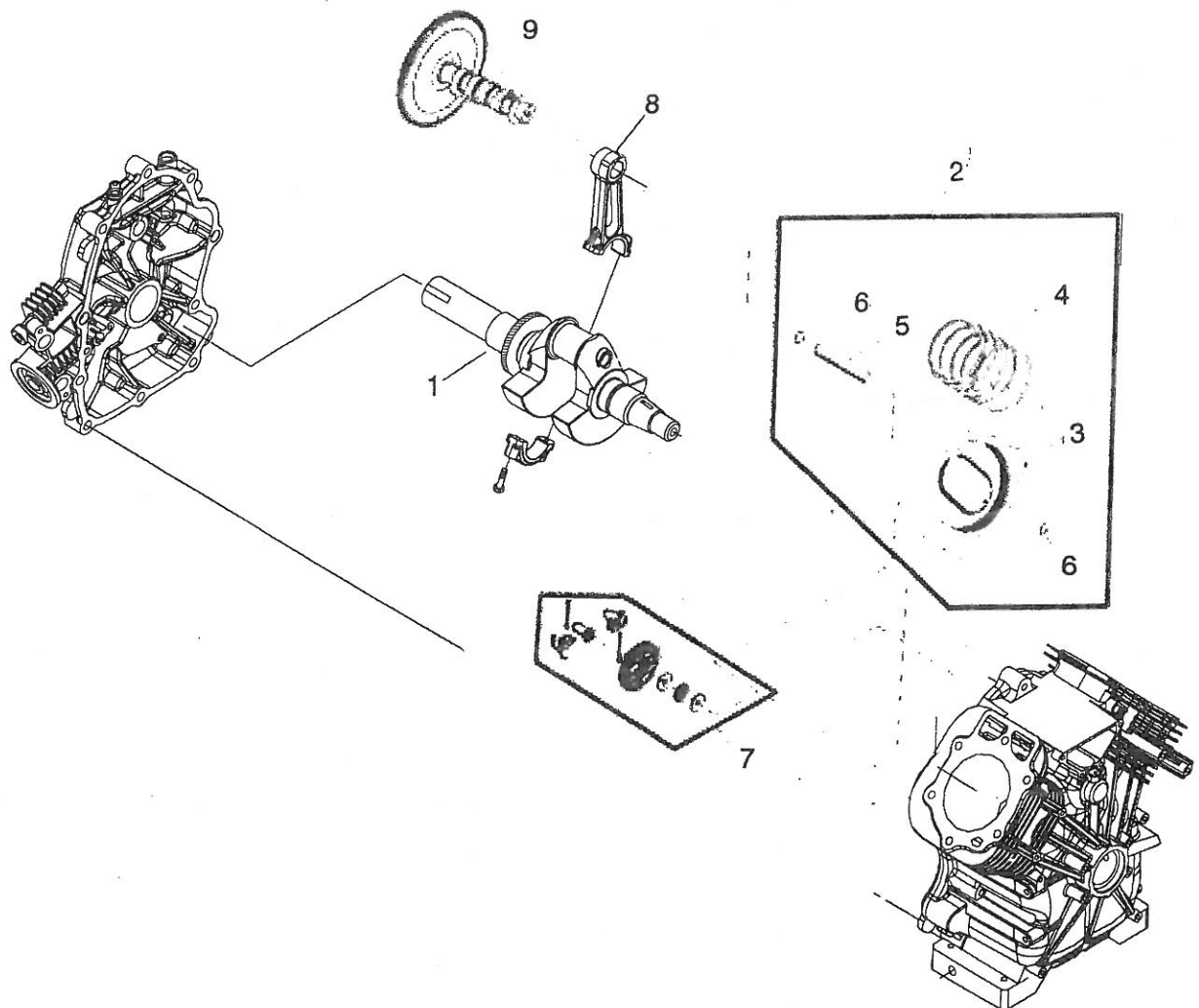


CRANKCASE GROUP

4/1/2014

SECTION 2

CRANKSHAFT GROUP

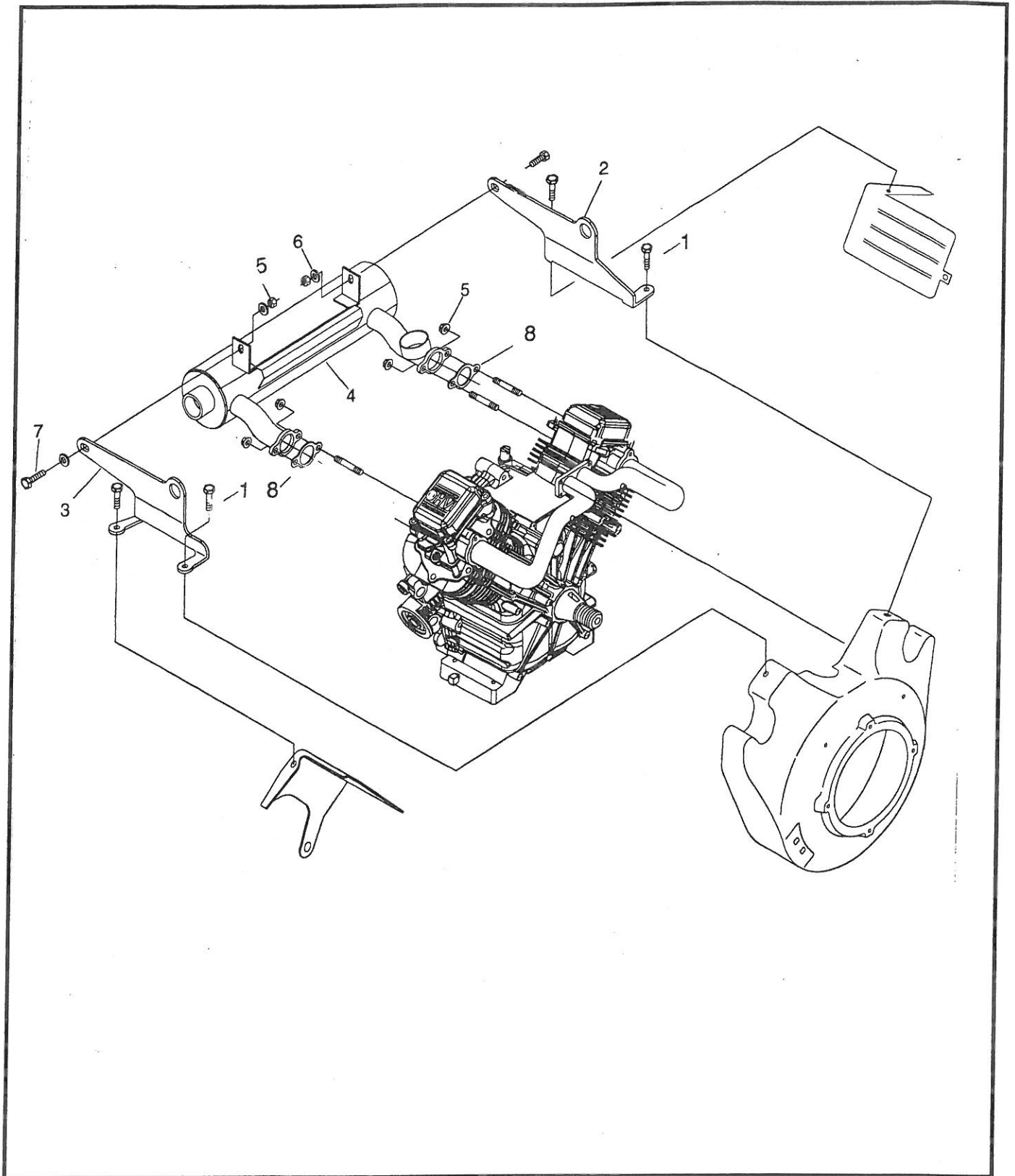


CRANKSHAFT GROUP

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SECTION 3

INTAKE & EXHAUST GROUP



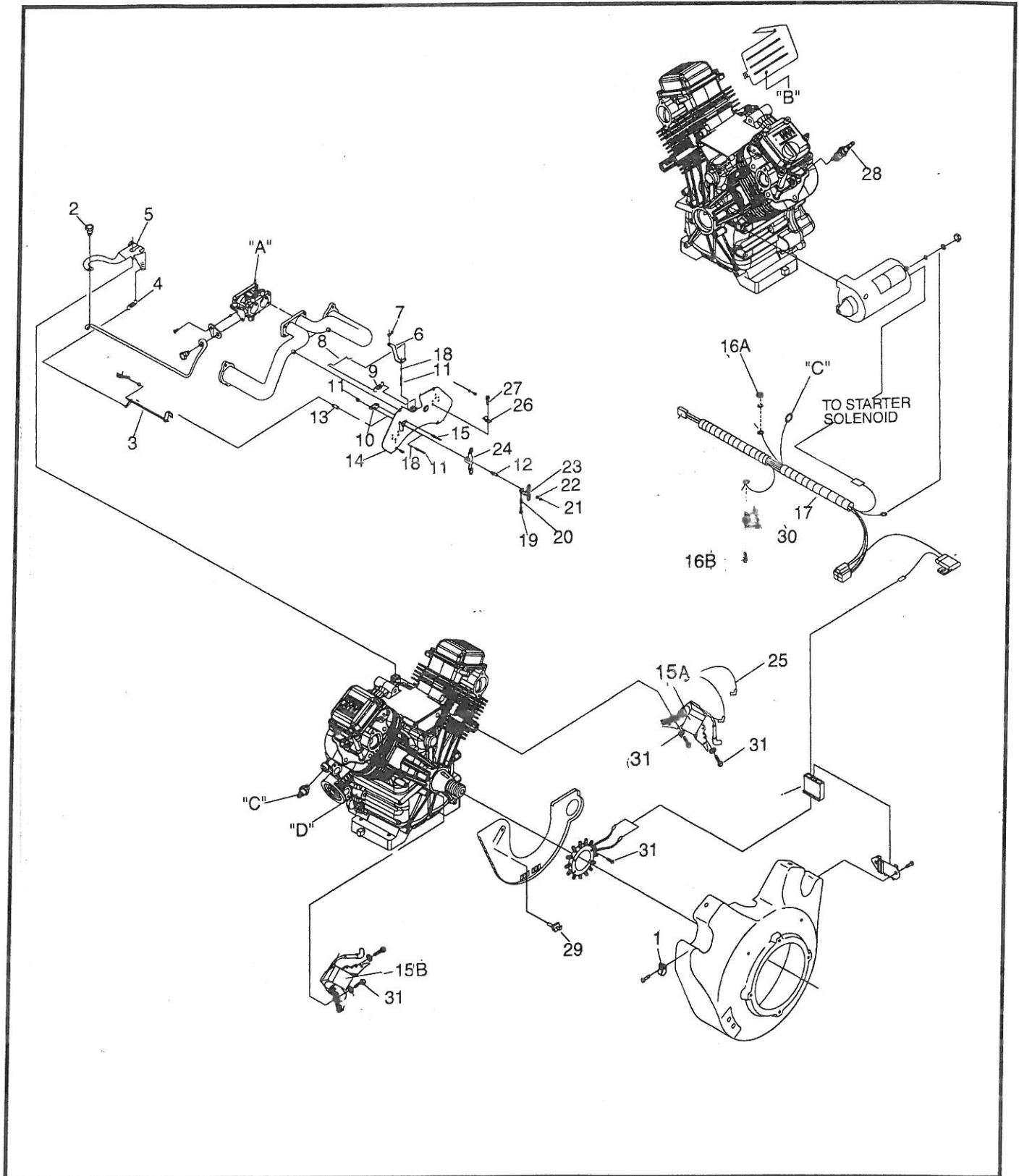
SECTION 3

INTAKE & EXHAUST GROUP

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SECTION 4

GOVERNOR GROUP



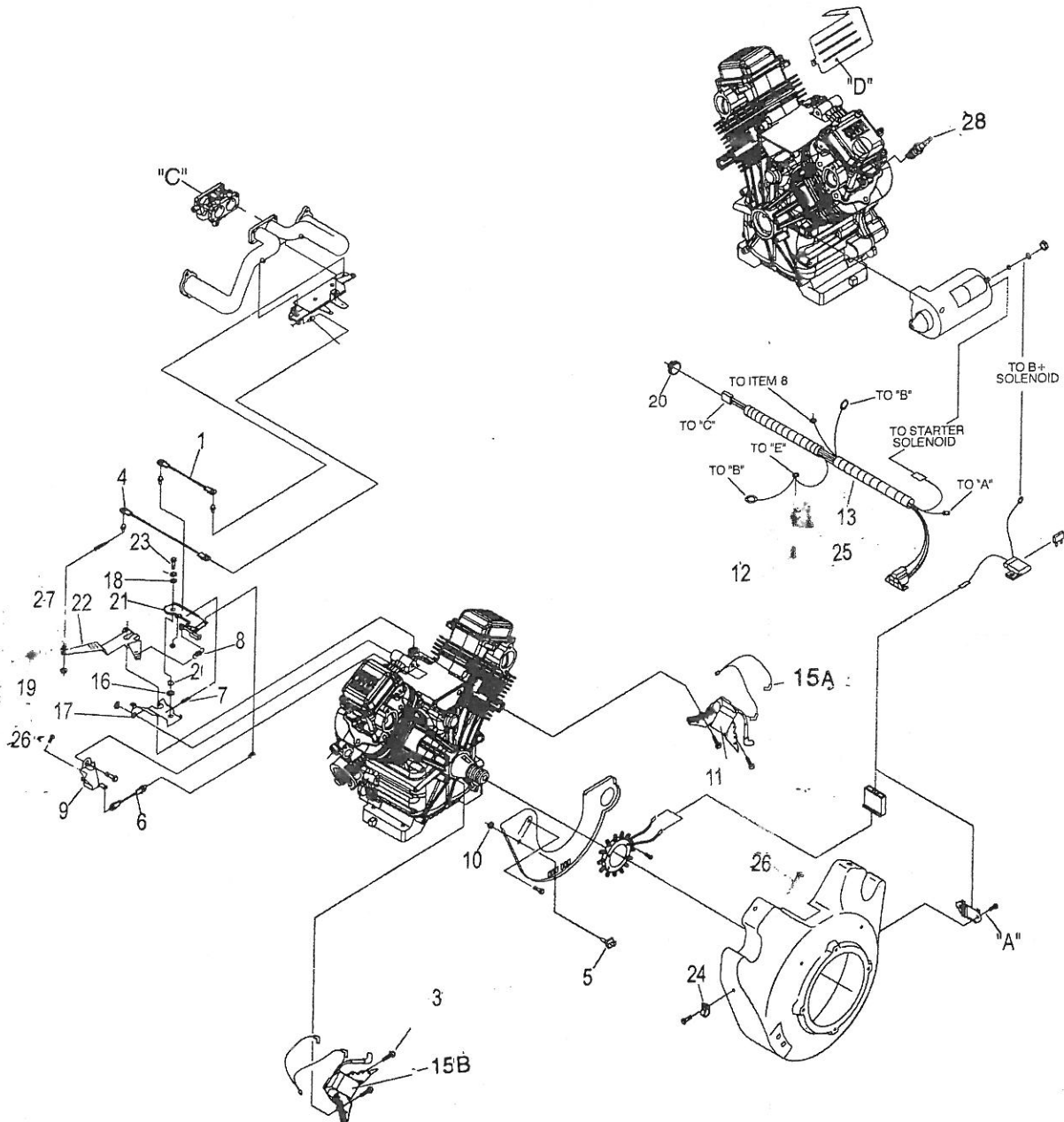
SECTION 4

GOVERNOR GROUP

Ref	Part Number	Description	Qty	Remarks	Fig
1	22J-42212-10	CLAMP-J VINYL COATED	2	DS0010	400
2	22J-42167-20	BOLT, GOVERNOR LINK SHOULDER	1	DS0010	400
3	22J-42913-70	ASSY, SPEED CONTROL ROD	1	DS0010	400
4	22J-42835-80	SPRING, GOVERNOR	1	DS0010	400
5	22J-42896-60	GOVERNOR LEVER AY	1	DS0010	400
6	22J-42904-60	BELLCRANK, CHOKE	1	DS0010	400
7	22J-42136-60	BUSHING, GOVERNOR ROD	1	DS0010	400
8	22J-42925-30	ROD,BELLCRANK TO CHOKE LEVER	1	DS0010	400
9	22J-42436-30	SPRING, CHOKE RETURN	1	DS0010	400
10	22J-42273-40	BELLCRANK, THROTTLE-CHOKE	1	DS0010	400
11	22J-42924-50	RIVET	3	DS0010	400
12	22J-42265-20	STUD, THROTTLE CONTROL	1	DS0010	400
13	22J-42265-10	BUSHING, THROTTLE CONTROL	1	DS0010	400
14	22J-42900-40	PANEL, CONTROL FACE PLATE	1	DS0010	400
15A	22J-43224-01	IGNITION COIL AY, CYLIINDER #1	1	DS0010	400
15B	22J-43224-02	IGNITION COIL AY, CYLIINDER #2	1	DS0010	400
16A	22J-42202-50	NUT, HEX LOCK	1	DS0010	400
16B	22J-42709-50	SCREW	2	DS0010	400
17	22J-42498-30	WIRING HARNESS	1	DS0010	400
18	22J-42741-70	BUSHING, SLEEVE	2	DS0010	400
19	22J-42986-10	SCREW	1	DS0010	400
20	22J-42375-10	SPRING, IDLE RETURN	1	DS0010	400
21	22J-42739-80	NUT, HEX LOCK (037398)	1	DS0010	400
22	22J-42436-20	WASHER, WAVE	1	DS0010	400
23	22J-42813-70	LEVER, THROTTLE	1	DS0010	400
24	22J-42835-70	LEVER, CHOKE	1	DS0010	400
25	22J-42117-70	ASSEMBLY, GROUND WIRE	1	DS0010	400
26	22J-42419-00	CLAMP, 3/16" COATED CABLE	6	DS0010	400
27	22J-54557-90	SCREW	6	DS0010	400
28	22J-42758-50	SPARK PLUG, CHAMPION (RC14YC4)	2	DS0010	400
29	22J-42499-70	CONNECTOR, GROUND WIRE	1	DS0010	400
30	22J-42409-00	THERMAL SWITCH	1	DS0010	400
31	22J-42311-10	SCREW	4	DS0010	400

SECTION 4

GOVERNOR GROUP



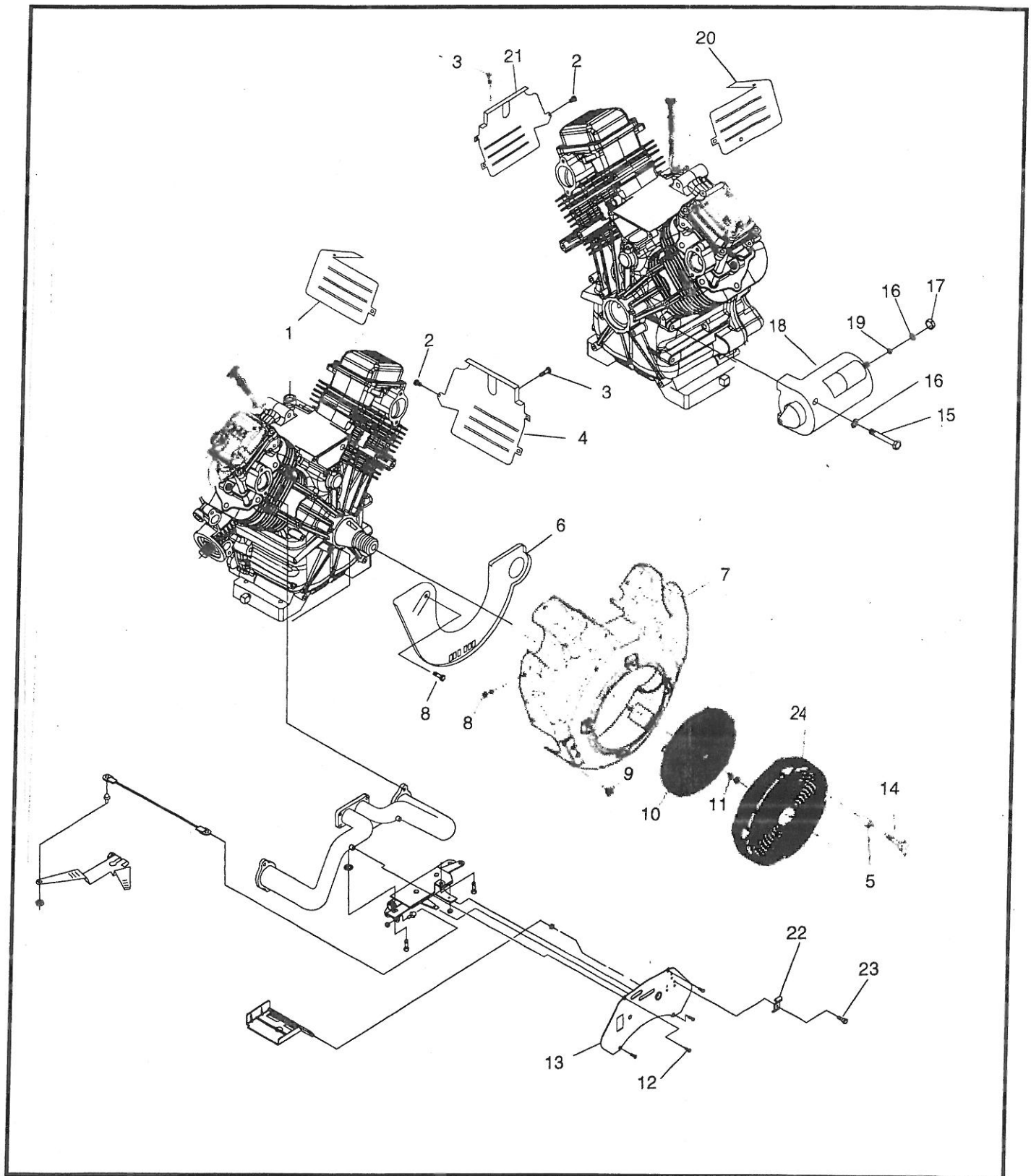
SECTION 4

GOVERNOR GROUP

	Part Number	Description	Qty	Remarks	Fig
1	22J-42154-30	IDLE ADJUSTMENT ROD AY	1	DS0020	400
2	22J-42778-20	WASHER, 3-WAVE	1	DS0020	400
3	22J-42311-10	SCREW	4	DS0020	400
4	22J-42260-50	GOVERNOR ROD AY	1	DS0020	400
5	22J-42499-70	GROUND WIRE CONNECTOR AY	1	DS0020	400
6	22J-42956-40	ROD, GOV ADJUSTMENT	1	DS0020	400
7	22J-42148-80	SPRING, EFFORT REDUCTION	1	DS0020	400
8	22J-42115-00	SPRING, GOVERNOR	1	DS0020	400
9	22J-42055-30	IDLE SPEED BRACKET AY, W/5.7 BALL	1	DS0020	400
10	22J-42202-50	NUT, HEX LOCK	1	DS0020	400
11	22J-77115-30	STATOR, OUTLINE W/LUGS	1	DS0020	400
12	22J-42709-50	SCREW	2	DS0020	400
13	22J-42498-30	WIRING HARNESS	1	DS0020	400
14	22J-42117-70	GROUNDING WIRE AY	1	DS0020	400
15A	22J-43224-01	IGNITION COIL AY, CYLINDER #1	1	DS0020	400
15B	22J-43224-02	IGNITION COIL AY, CYLINDER #2	1	DS0020	400
16	22J-42778-10	SHIM	1	DS0020	400
17	22J-42542-00	BRACKET, GOVERNOR ADJUST SUPPORT	1	DS0020	400
18	22J-42387-60	WASHER, FLAT	1	DS0020	400
19	22J-42634-20	BALL STUD,	1	DS0020	400
20	22J-42873-90	ZIP TIE	1	DS0020	400
21	22J-42968-30	IDLE SPEED ADJUST AY	1	DS0020	400
22	22J-42019-50	GOVERNOR LEVER AY	1	DS0020	400
23	22J-42426-80	SCREW	1	DS0020	400
24	22J-42212-10	CLIP-J VINYL COATED	2	DS0020	400
25	22J-42409-00	THERMAL SWITCH	1	DS0020	400
26	22J-42164-40	SCREW	2	DS0020	400
27	22J-42978-40	NUT HEX LOCK	1	DS0020	400
28	22J-42758-50	SPARK PLUG	2	DS0020	400

SECTION 5

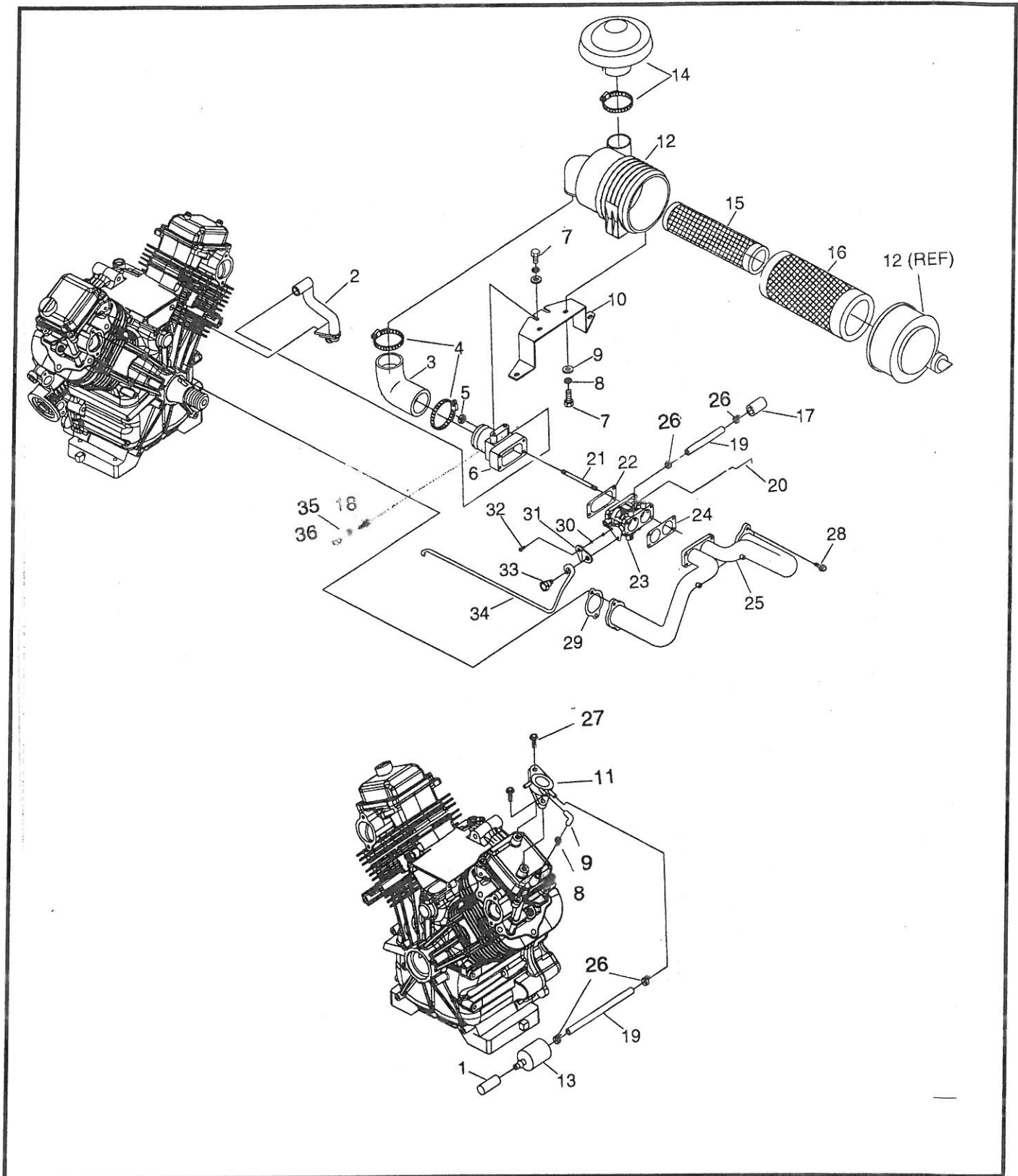
COOLING & STARTING GROUP



SECTION 5 COOLING & STARTING GROUP

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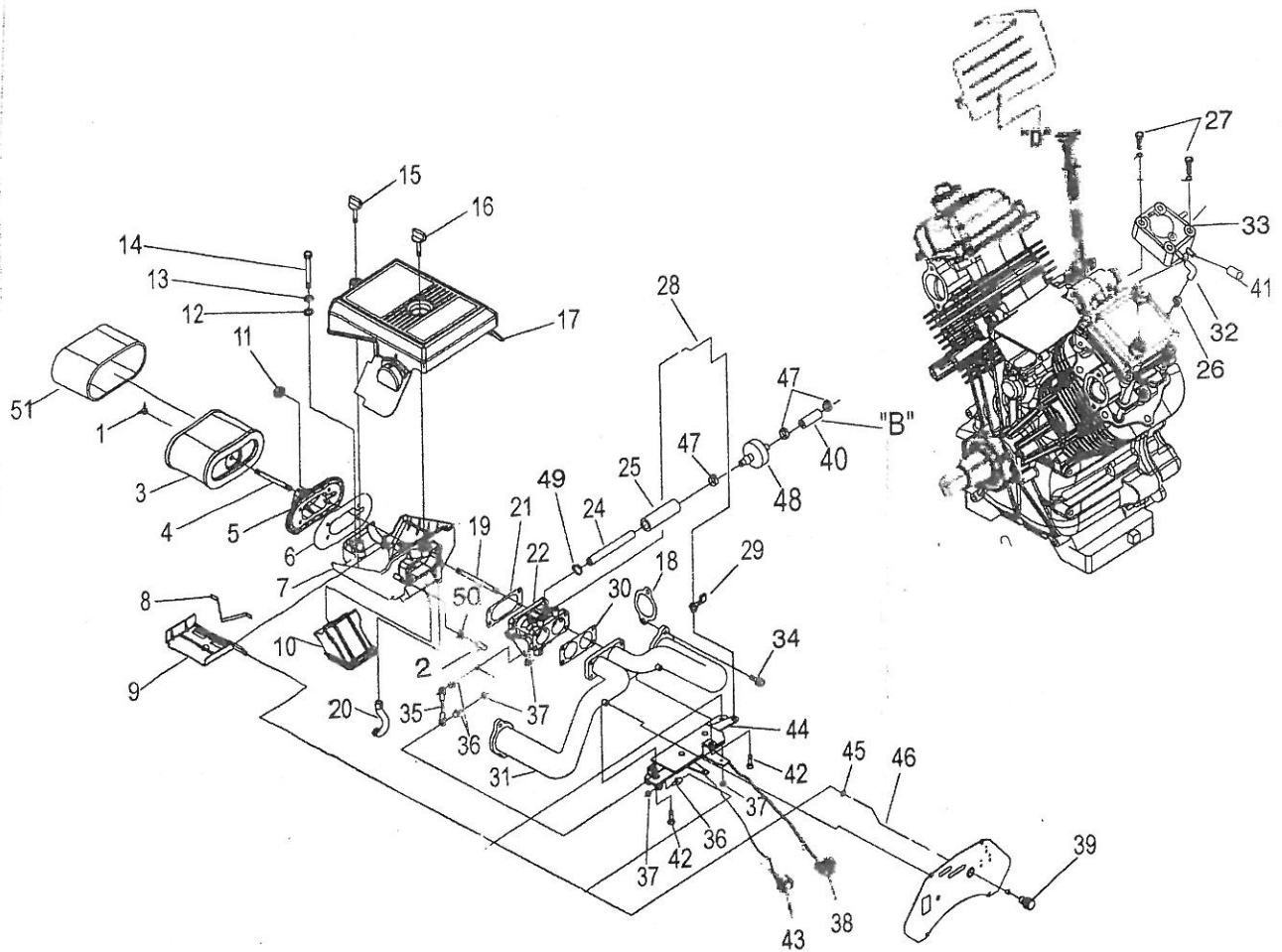
SECTION 6 FUEL LUBRICATION GROUP DONALDSON



SECTION 6 FUEL LUBRICANT GROUP DONALDSON

Ref	Part Number	Description	Qty	Remarks	Fig
2	22J-32642-40	BREATHER HOSE	1	DS0010	640
3	22J-32480-70	HOSE, AIR CLEANER CONNECTOR	1	DS0010	640
4	22J-32168-00	CLAMP, HOSE	2	DS0010	640
5	22J-32838-80	NUT, HEX FLANGE	4	DS0010	640
6	22J-32305-90	ADAPTOR, CARB TO AIRBOX	1	DS0010	640
7	22J-32950-70	SCREW	4	DS0010	640
8	22J-32803-10	CLAMP HOSE GREEN	1	DS0010	640
9	22J-62083-20	ELBOW, RUBBER 90 DEGREE GASOLINE	1	DS0010	640
10	22J-32283-60	BRACKET, AIR CLEANER SUPPORT	1	DS0010	640
11	22J-62626-30	PUMP, PULSE	1	DS0010	640
12	22J-32764-20	CLEANER, AIR W/M8 MOUNTING BASE	1	DS0010	640
13	22J-65631-30	FILTER,FUEL	1	DS0010	640
14	22J-32013-60	CAP,INLET DONALDSON	1	DS0010	640
15	263-32613-A1	FILTER, ELEMENT #2	1	DS0010	640
16	263-32612-A1	FILTER, ELEMENT #1	1	DS0010	640
17	22J-32440-90	SLEEVING, FLEXO	1	DS0010	640
18	22J-32009-60	BARBED STR	1	DS0010	640
19	22J-32917-60	HOSE	2	DS0010	640
20	22J-42996-00	ROD, CHOKE	1	DS0010	640
21	22J-62602-10	STUD	4	DS0010	640
22	22J-62402-60	GASKET, AIRBOX TO SPACER/CARB	1	DS0010	640
23	22J-62315-30	CARBURETOR W/BALL STUD - EH90	1	DS0010	640
23	22K-62314-90	CARBURETOR W/BALL STUD - EH99	1	DS0010	640
24	22J-62051-00	GASKET, MANIFOLD TO CARB	1	DS0010	640
25	22J-33889-30	MANIFOLD, INTAKE	1	DS0010	640
26	22J-62366-20	CLAMP, HOSE	4	DS0010	640
27	22J-62092-60	SCREW	2	DS0010	640
28	22J-33373-00	SCREW	4	DS0010	640
29	22J-32304-30	GASKET INTAKE PORT	2	DS0010	640
30	22J-62487-80	NUT HEX FLANGE	1	DS0010	640
31	22J-62669-90	BRACKET, THROTTLE (0E9271)	1	DS0010	540
32	22J-62693-30	SCREW	1	DS0010	640
33	22J-42167-20	BOLT, GOVERNOR LINK SHOULDER	1	DS0010	640
34	22J-42872-40	ROD, GOVERNOR	1	DS0010	640
35	22J-65803-10	CLAMP HOSE BAND	1	DS0010	640
36	22J-62337-90	CAP EVAP PORT	1	DS0010	640

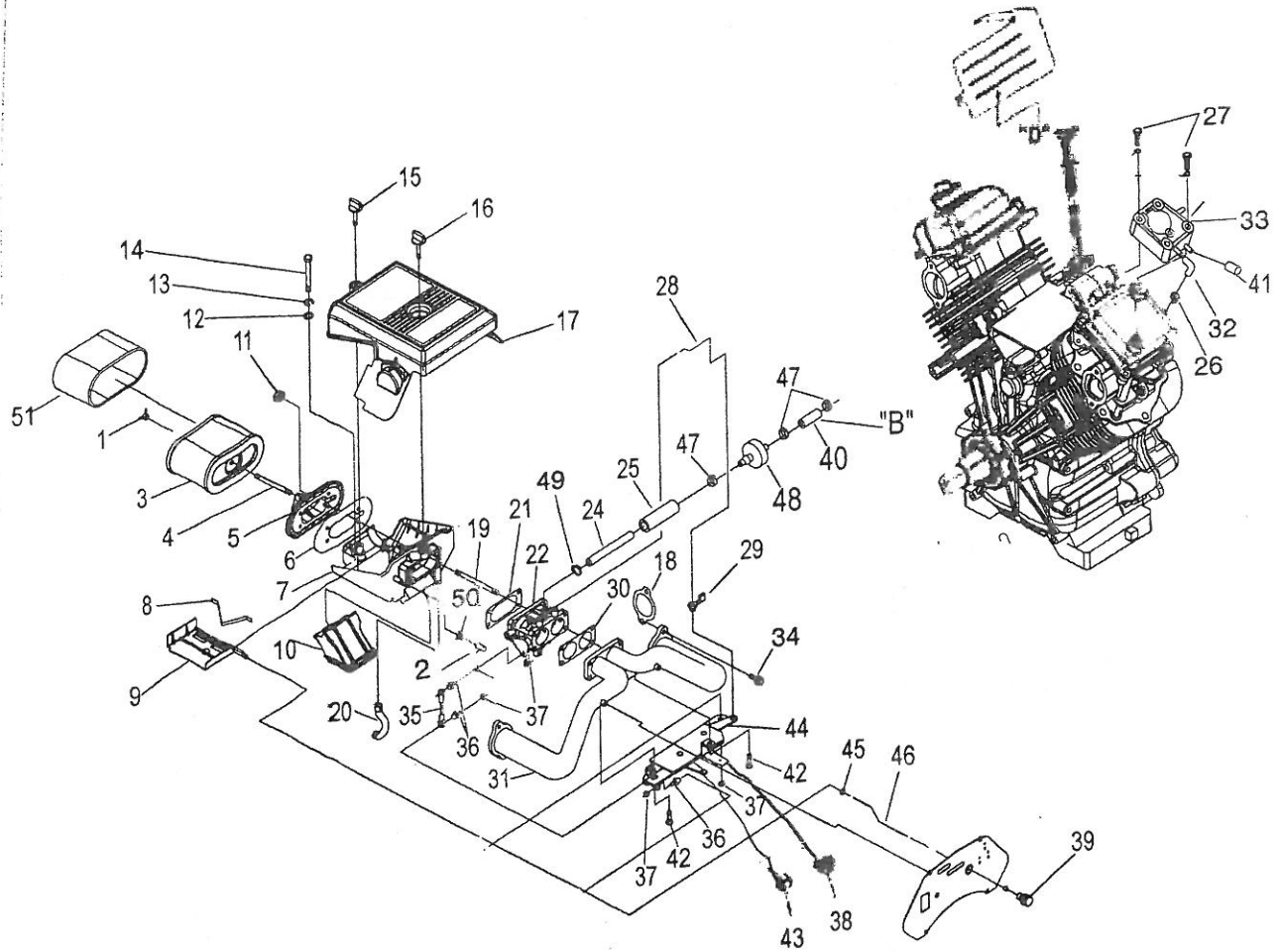
SECTION 6 FUEL LUBRICATION GROUP FLAT TOP



SECTION 6 FUEL LUBRICANT GROUP FLAT TOP

Ref	Part Number	Description	Qty	Remarks	Fig
1	22J-32659-20	WINGNUT, AIRBOX	1	DS0020	640
2	22J-62337-90	CAP EVAP PORT	1	DS0020	640
3	22J-32972-30	ELEMENT, AIR FILTER	1	DS0020	640
4	22J-32530-20	STUD, AIR FILTER	1	DS0020	640
5	22J-32418-30	ADAPTOR, SPIT BACK	1	DS0020	640
6	22J-32632-70	GASKET, SPIT BACK	1	DS0020	640
7	22J-32277-40	BASE, AIRBOX	1	DS0020	640
8	22J-32512-50	SPRING, WINTER/SUMMER VALVE	1	DS0020	640
9	22J-32293-00	VALVE, WINTER/SUMMER	1	DS0020	640
10	22J-32461-20	SNORKEL, AIR INTAKE	1	DS0020	640
11	22J-32838-80	NUT, HEX FLANGE	4	DS0020	640
12	22J-32247-30	WASHER, FLAT	1	DS0020	640
13	22J-32209-70	WASHER, LOCK	1	DS0020	640
14	22J-32972-10	SCREW	1	DS0020	640
15	22J-32382-00	KNOB,AIRBOX	1	DS0020	640
16	22J-32382-10	KNOB,AIRBOX	1	DS0020	640
17	22J-32277-50	COVER, AIRBOX	1	DS0020	640
18	22J-32304-30	GASKET, INTAKE PORT	2	DS0020	640
19	22J-62602-10	STUD	4	DS0020	640
20	22J-32909-30	HOSE, BREATHER	1	DS0020	640
21	22J-62402-60	GASKET, CARBURETOR TO AIRBOX	1	DS0020	640
22	22J-62333-20	CARBURETOR W/BALL STUD EH90	1	DS0020	640
22	22K-62333-10	CARBURETOR W/BALL STUD EH99	1	DS0020	640
24	22J-32917-60	HOSE	1	DS0020	640
25	22J-32440-90	SLEEVEING, FLEXO	1	DS0020	640
26	22J-32803-10	CLAMP, HOSE BAND GREEN	1	DS0020	640
27	22J-62092-60	SCREW	2	DS0020	640
28	22J-42996-00	ROD, CHOKE	1	DS0020	640
29	22J-42136-60	BUSHING, GOVERNOR ROD	1	DS0020	640
30	22J-62051-00	GASKET, MANIFOLD TO CARBURETOR	1	DS0020	640
31	22J-33889-30	INTAKE MANF	1	DS0020	640
32	22J-62083-20	ELBOW,RUBBER 90 DEGREE PULSE	1	DS0020	640
33	22J-62626-30	PUMP,IMPULSE	1	DS0020	640
34	22J-33373-00	SCREW	4	DS0020	640
35	22J-42145-10	ROD, THROTTLE	1	DS0020	640
36	22J-42634-20	BALL STUD	3	DS0020	640

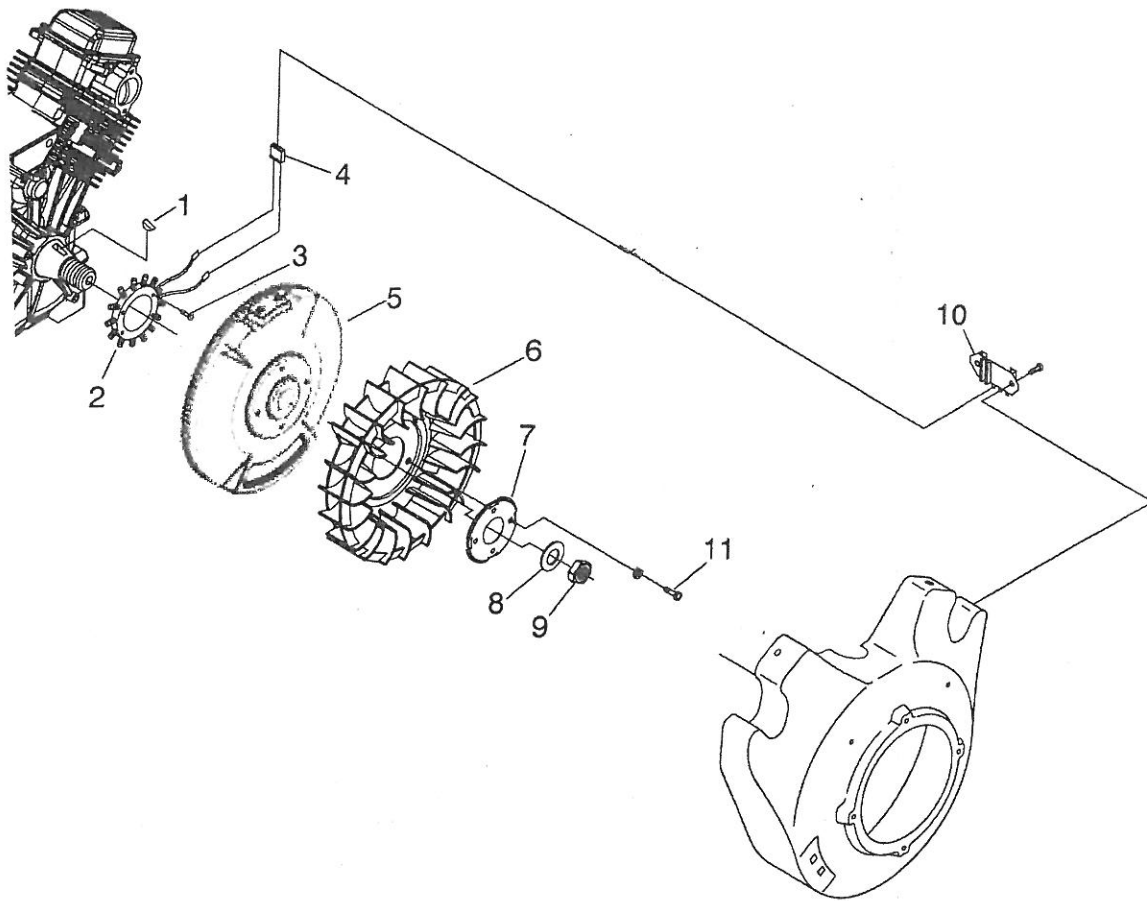
SECTION 6 FUEL LUBRICATION GROUP FLAT TOP



SECTION 6 FUEL LUBRICANT GROUP FLAT TOP

[illegible]

FIG. 700

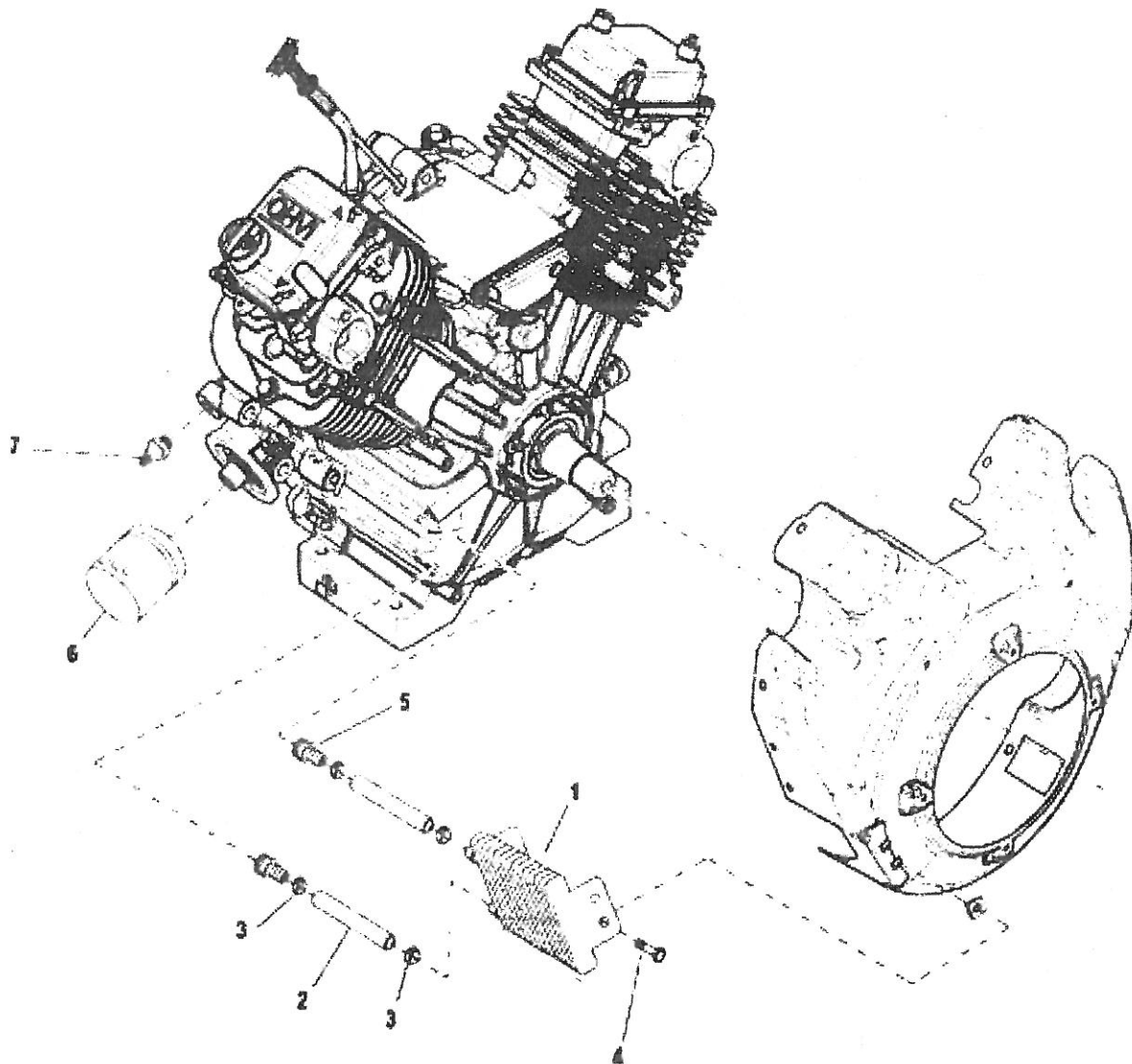


ELECTRIC DEVICE GROUP

4/1/2014

SECTION 7 ELECTRIC DEVICE GROUP OIL COOLER

FIG. 720



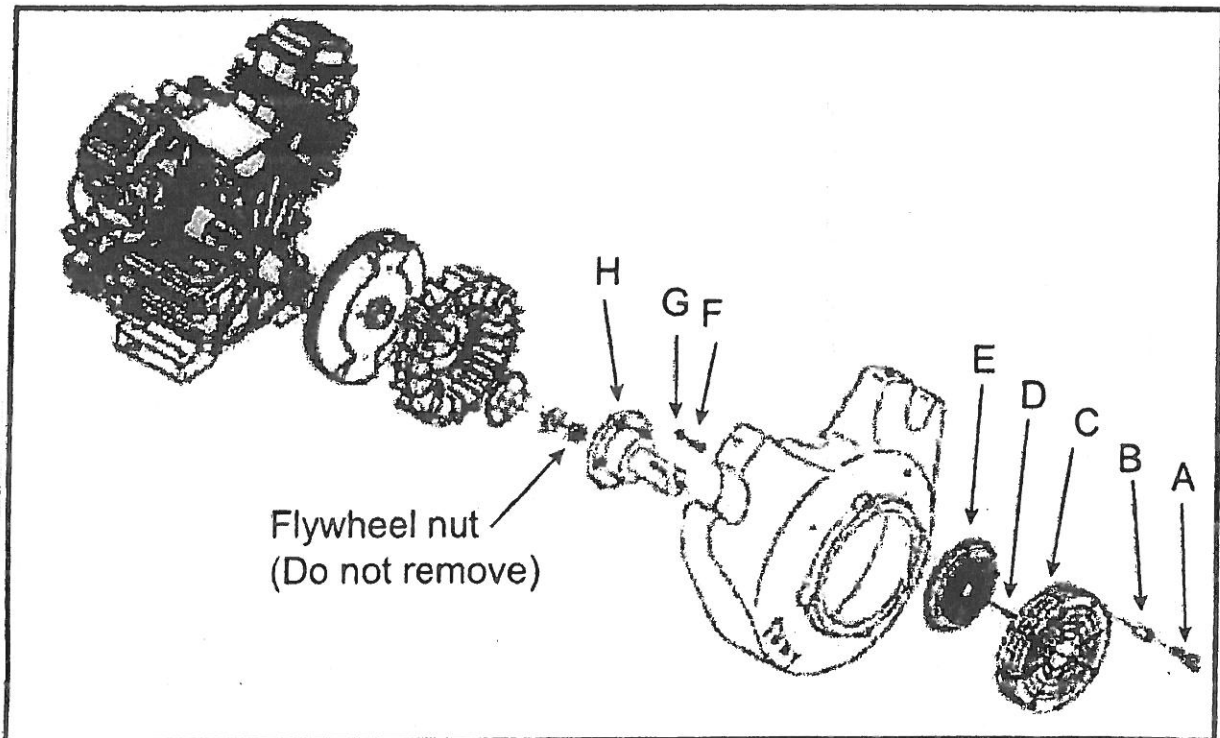
SECTION 7 ELECTRIC DEVICE GROUP OIL COOLER

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SECTION 8

ACCESSORIES

FRONT PTO KIT 99657750



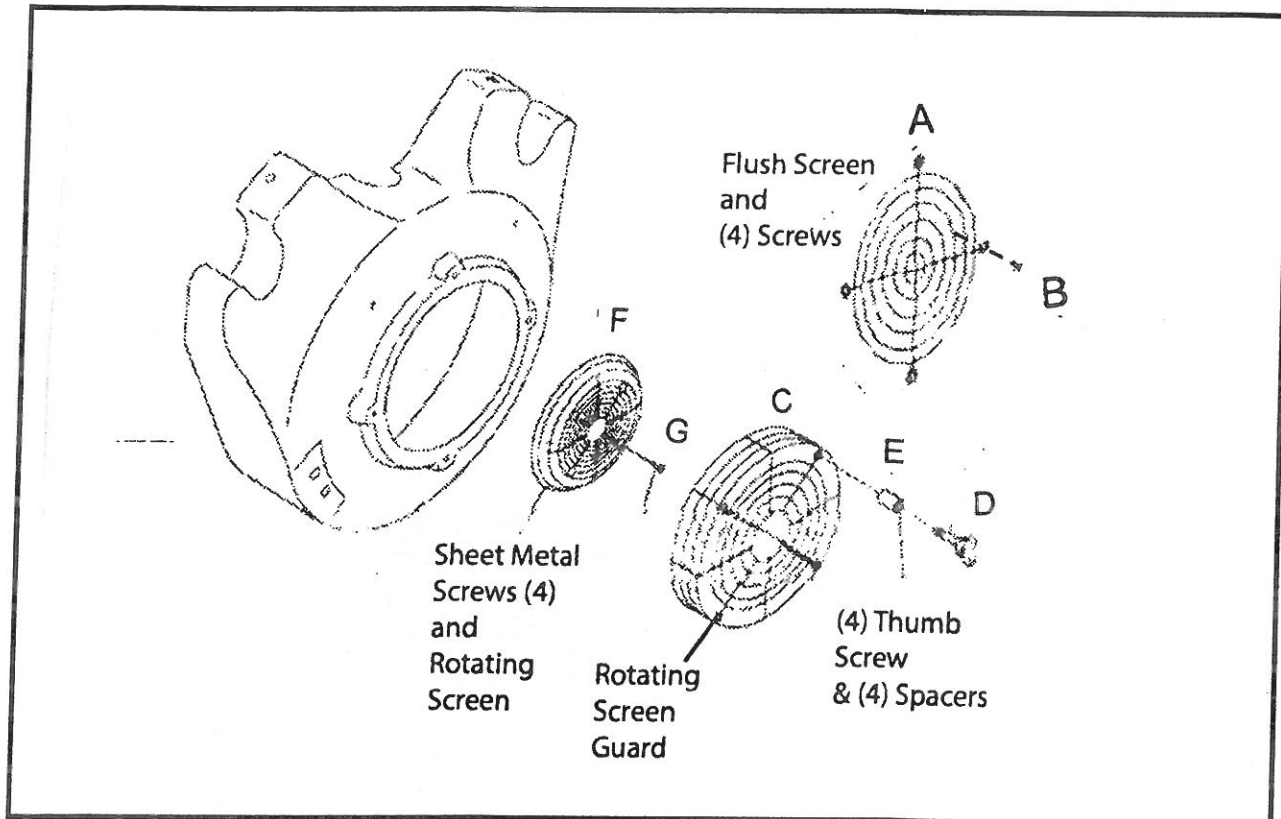
Item	Part Number	Description	Qty	Status
A	22J-54381-40	KNOB (ROTATING SCREEN)	4	EXISTING PART
B	22J-54314-60	SPACER	4	EXISTING PART
C	22J-54781-50	ROTATING SCREEN GUARD	1	INCLUDED IN KIT
D	22J-54711-50	SCREW	4	EXISTING PART
E	22J-54968-40	ROTATING SCREEN	1	EXISTING PART
F	22J-54982-10	SCREW M8 1.25 X 30	4	INCLUDED IN KIT
G	22J-54411-80	WASHER M8	4	INCLUDED IN KIT
H	22J-22938-10	SHAFT	1	INCLUDED IN KIT

SECTION 8

ACCESSORIES

FLUSH MOUNT SCREEN KIT

99657730

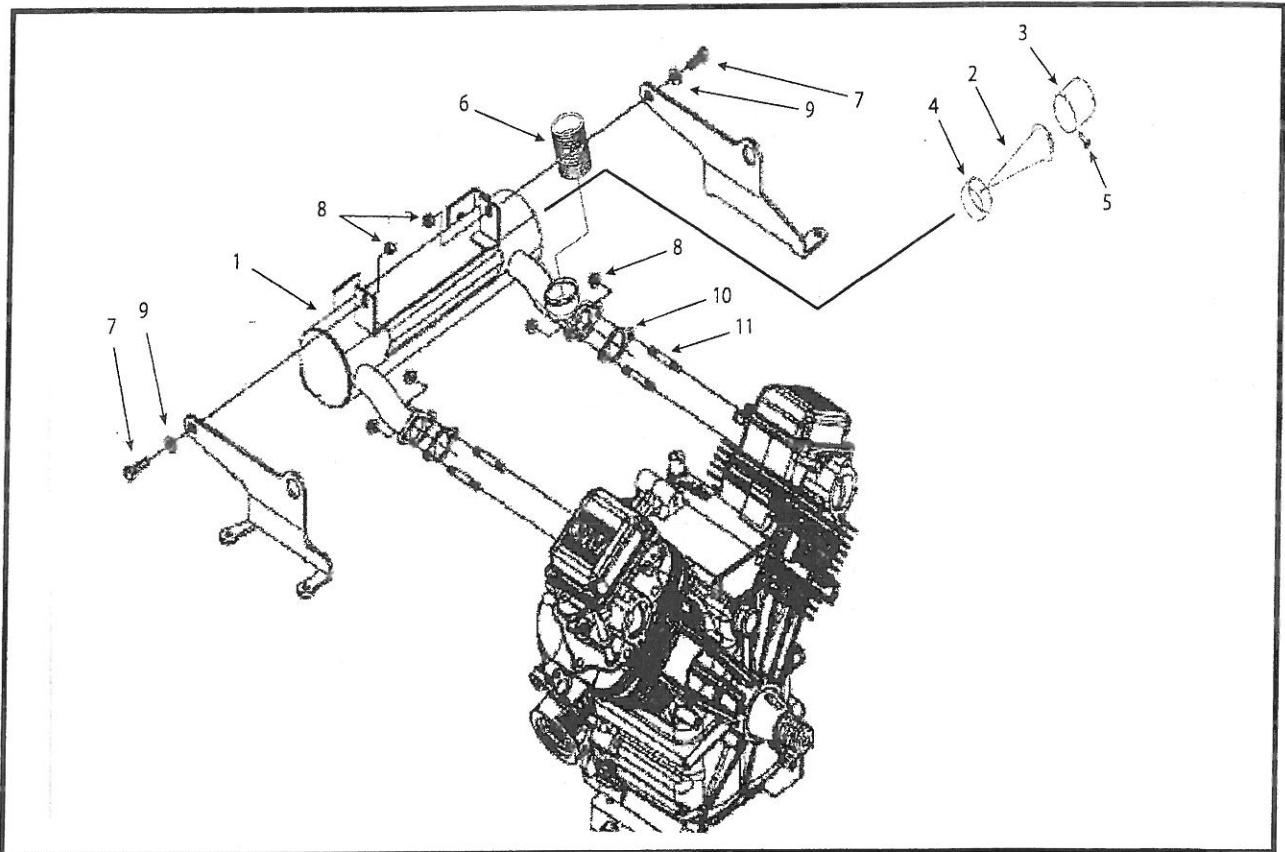


Item	Part Number	Description	Qty	Status
A	22J-54113-10	FAN GUARD	1	INCLUDED IN KIT
B	22J-54575-60	SCREW	4	INCLUDED IN KIT
C	22J-54781-50	ROTATING SCREEN GUARD	1	EXISTING PART
D	22J-54381-40	KNOB (ROTATING SCREEN)	4	EXISTING PART
E	22J-54314-60	SPACER	4	EXISTING PART
F	22J-54968-40	ROTATING SCREEN	1	EXISTING PART
G	22J-54711-50	SCREW	4	EXISTING PART

SECTION 8

ACCESSORIES

MUFFLER KIT LEFT HAND STARTER SIDE DISCHARGE 99657710

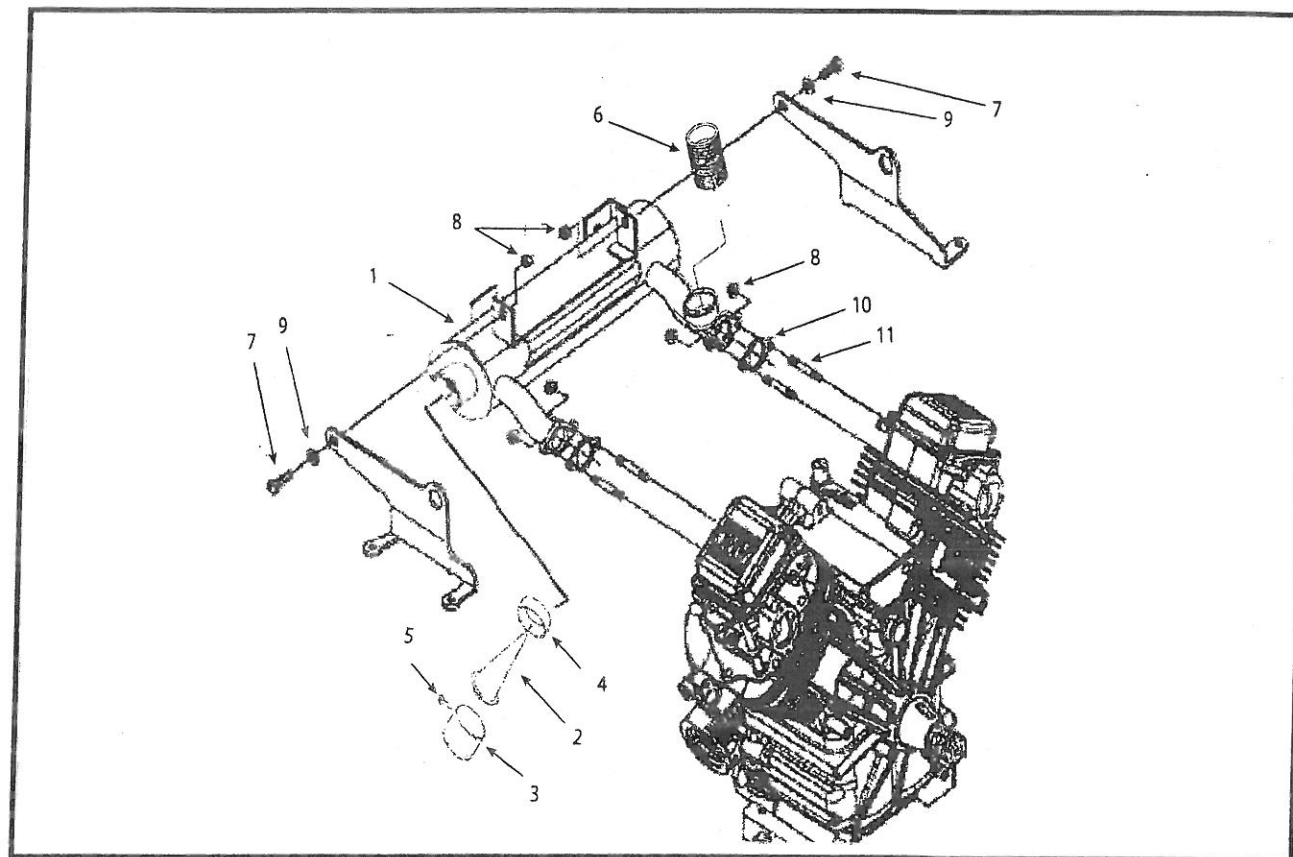


Item	Part Number	Description	Qty	Status
1	22J-99363-80	MUFFLER CP LH OUTLET	1	INCLUDED IN KIT
2	22J-99513-30	SPARK ARRESTOR SCREEN	1	INCLUDED IN KIT
3	22J-99513-3A	SPARK ARRESTOR RETAINER	1	INCLUDED IN KIT
4	22J-99533-90	SPARK ARRESTOR SPACER	1	INCLUDED IN KIT
5	22J-99929-40	RETAINER SCREW	1	INCLUDED IN KIT
6	22J-99614-30	HEAT RISER TUBE	1	INCLUDED IN KIT
7	22J-33925-30	SCREW	2	EXISTING PART
8	22J-33046-20	NUT INC TOOTH WASHER	6	EXISTING PART
9	22J-33214-50	FLAT WASHER	2	EXISTING PART
10	22J-33413-80	MANIFOLD GASKET	2	EXISTING PART

SECTION 8

ACCESSORIES

MUFFLER KIT RIGHT HAND OIL FILTER SIDE DISCHARGE 99657700



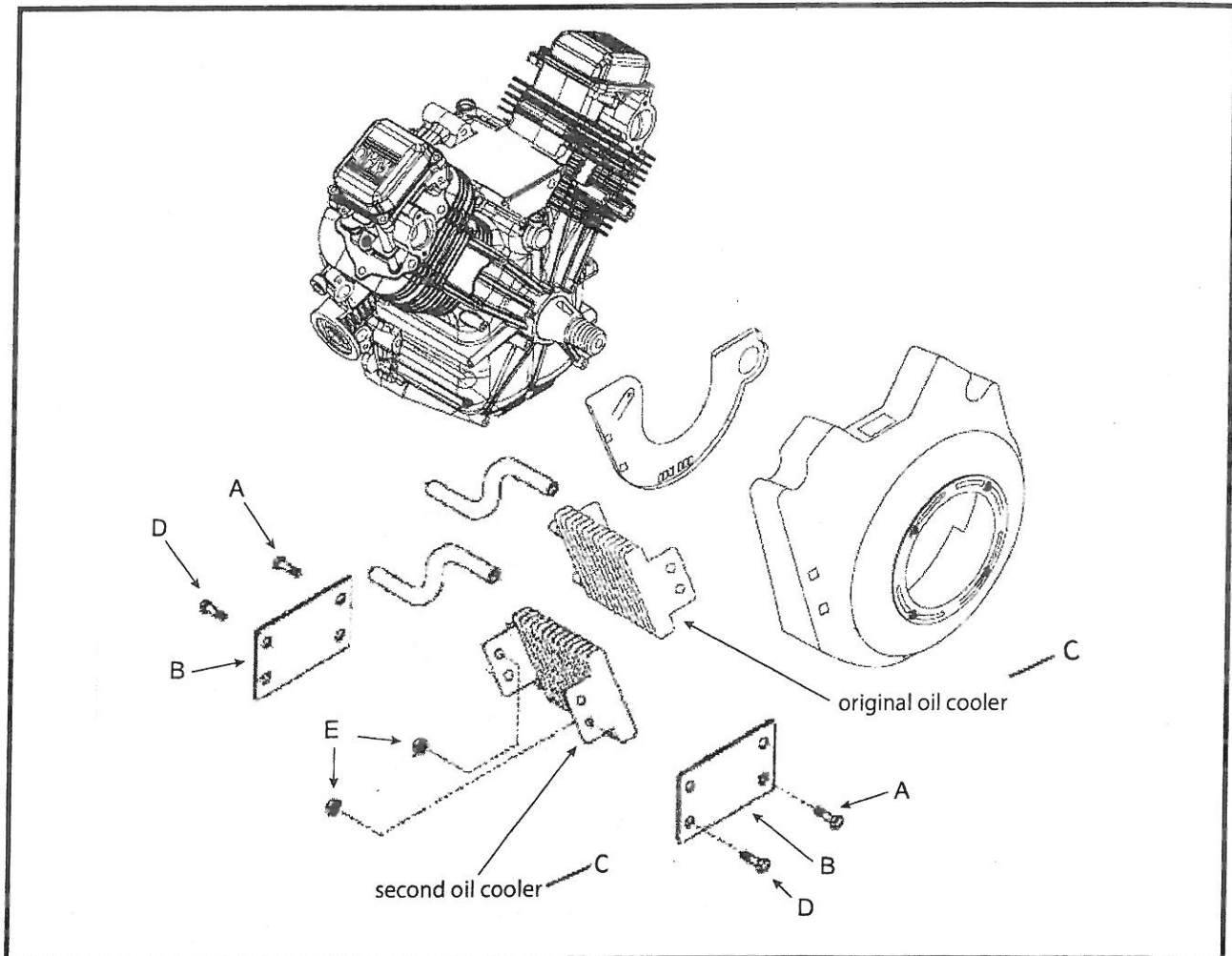
Item	Part Number	Description	Qty	Status
1	22J-99363-80	MUFFLER CP RH OUTLET	1	INCLUDED IN KIT
2	22J-99513-30	SPARK ARRESTOR SCREEN	1	INCLUDED IN KIT
3	22J-99513-3A	SPARK ARRESTOR RETAINER	1	INCLUDED IN KIT
4	22J-99533-90	SPARK ARRESTOR SPACER	1	INCLUDED IN KIT
5	22J-99929-40	RETAINER SCREW	1	INCLUDED IN KIT
6	22J-99614-30	HEAT RISER TUBE	1	INCLUDED IN KIT
7	22J-33925-30	SCREW	2	EXISTING PART
8	22J-33046-20	NUT INC TOOTH WASHER	6	EXISTING PART
9	22J-33214-50	FLAT WASHER	2	EXISTING PART
10	22J-33413-80	MANIFOLD GASKET	2	EXISTING PART

SECTION 8

ACCESSORIES

DUAL OIL COOLER

99657740



Item	Part Number	Description	Qty	Status
A	22J-65976-40	SCREW	4	EXISTING PART
B	22J-65495-20	PLATE	2	INCLUDED IN KIT
C	22J-65950-60	OIL COOLER #1 & #2	1	#1 EXISTING #2 KIT
D	22J-65311-60	SCREW	4	INCLUDED IN KIT
E	22J-32838-80	NUT	4	INCLUDED IN KIT

