

PARTS MANUAL

Models

EH650DC0150

ENGINES

For

American Sport Works

PUB-EP
Rev. 02/09

Robin America, Inc.

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

© Copyright 2009 Robin America, Inc.

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.

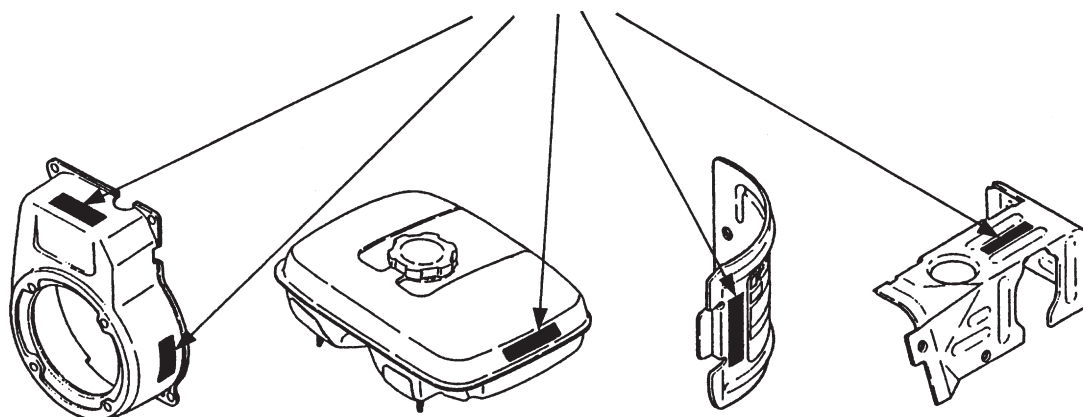
In order to identify the correct service part number, it is important to confirm the specification and code numbers for your engine. The specification and code number together are known as the PRODUCT NUMBER.

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

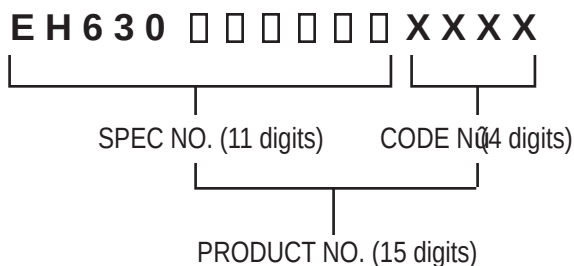
PRODUCT NUMBER LABEL



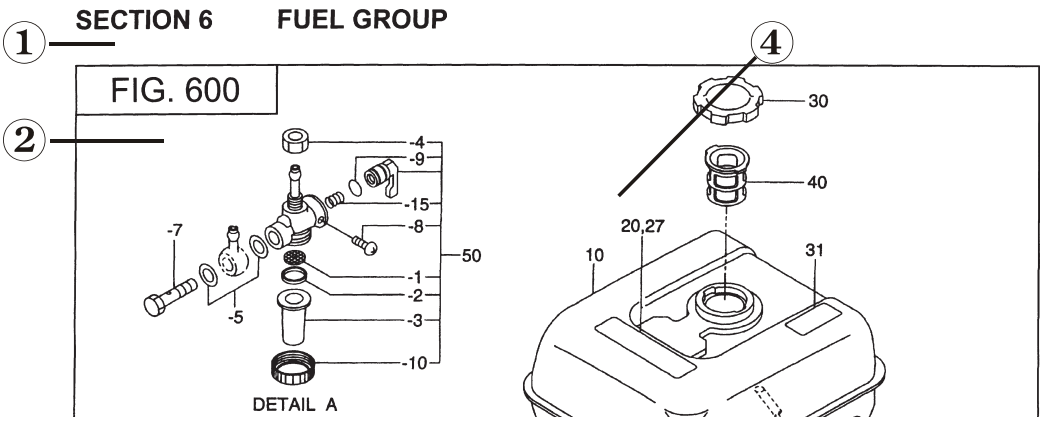
PRODUCT NUMBER LABEL LOCATIONS



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



SECTION 6 FUEL GROUP					
REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	
10	267-60103-01	FUEL TANK CP	1	YD, YS TYPE, BLACK	
	267-60101-01	FUEL TANK CP	1	YELLOW	
27	073-20039-00	LABEL WARNING	1	YD, YS TYPE	

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:

- The part is used in the product irrespective of CODE No.
2101- The part is used in the products with CODE No. of 2101 and after this number.
- 2100 The part is used in the products with CODE No. of 2100 and before this number.

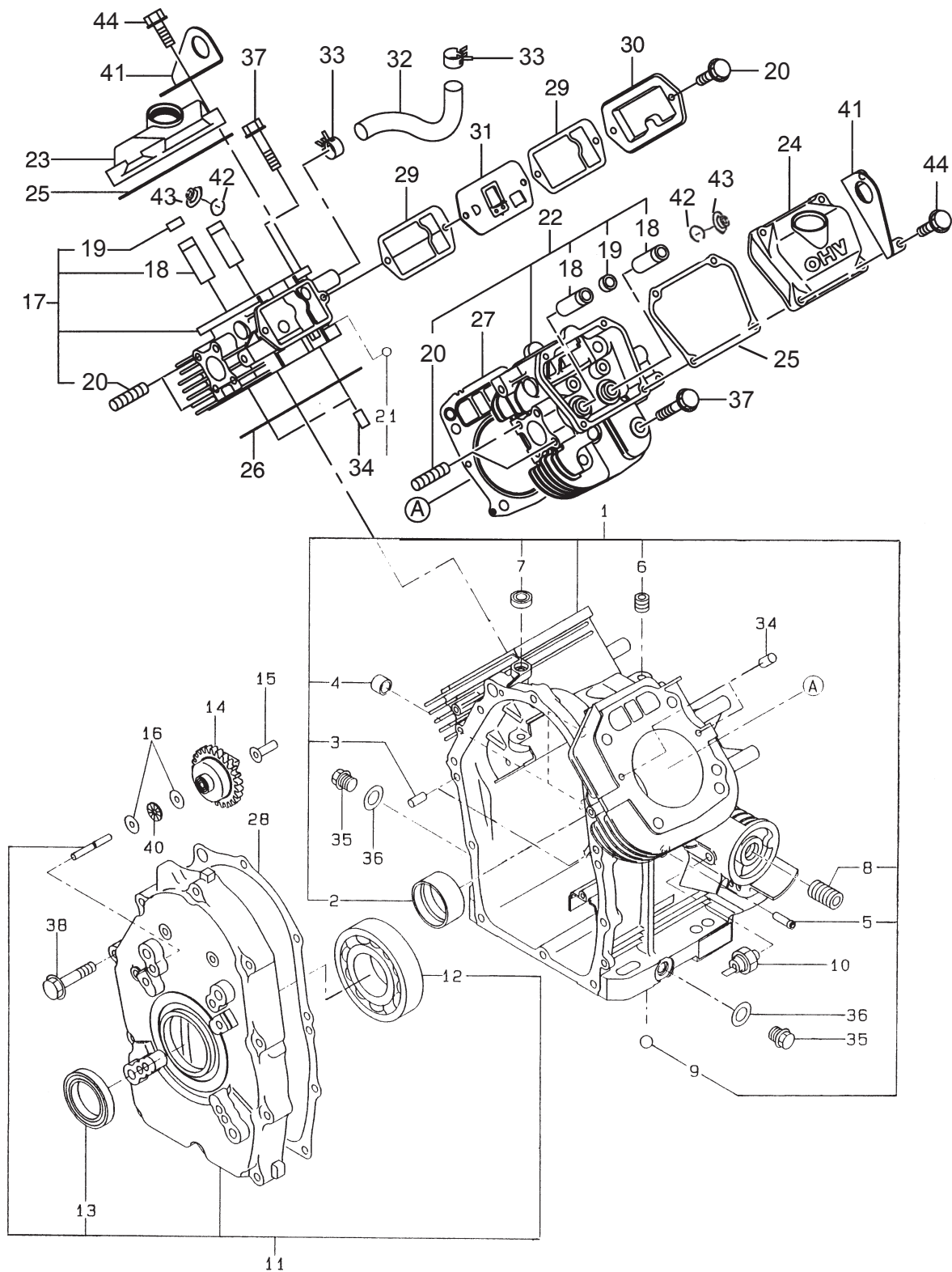
GROUP INDEX

Group Name	Page
CRANKCASE GROUP	6
CRANKSHAFT GROUP	8
INTAKE and EXHAUST GROUP.....	10
GOVERNOR GROUP	12
COOLING and STARTING GROUP	14
FUEL, LUBRICANT GROUP	16
CARBURETOR GROUP	18
ELECTRIC DEVICE GROUP	20
STARTING MOTOR GROUP	22

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

FIG. 100

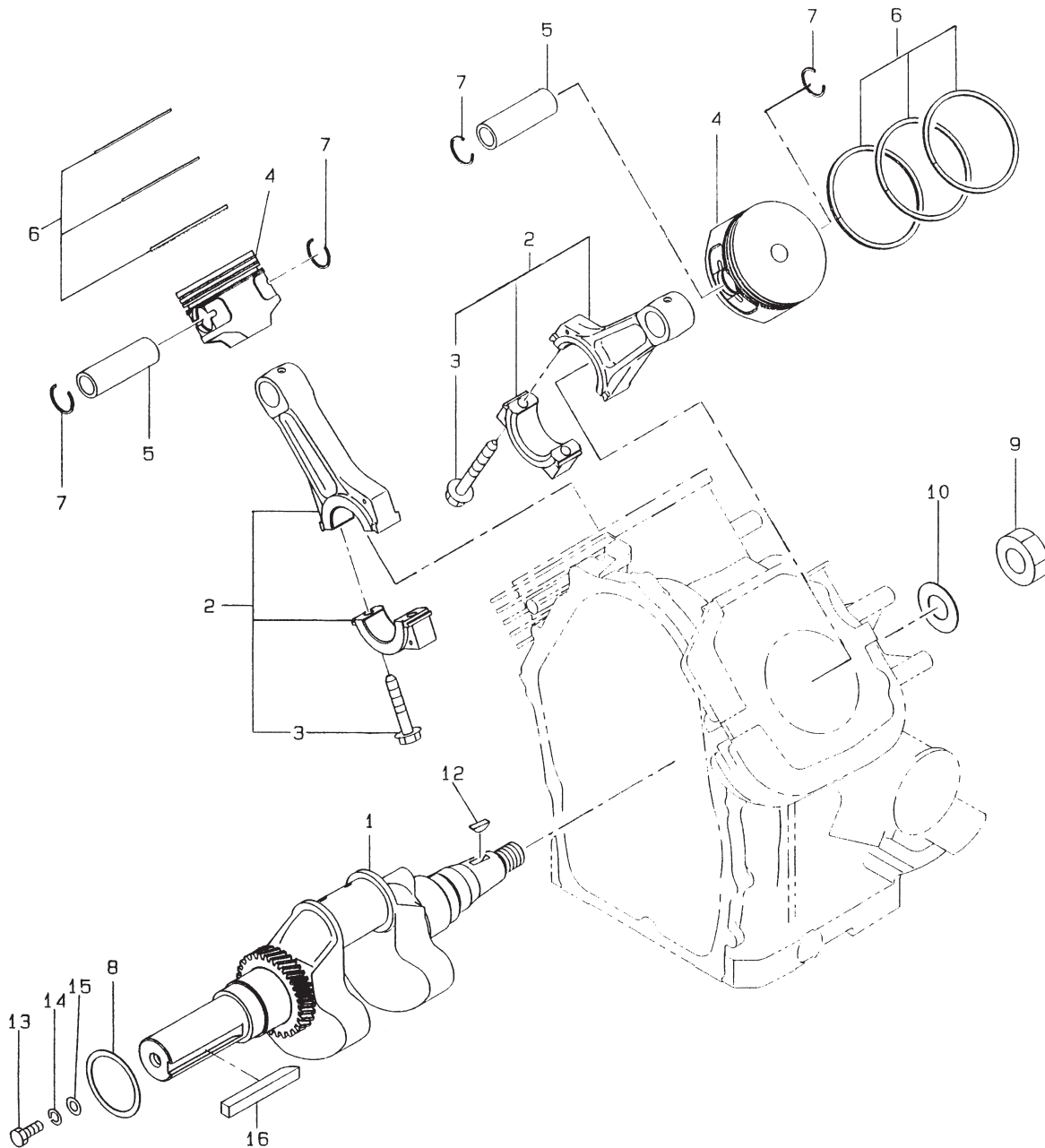


SECTION 1 CRANKCASE GROUP

REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	FROM-TO	FIG.
1	263-10111-B1	CRANKCASE CP	1			100
2	263-15802-03	MAIN BEARING CP	1			100
3	X31-00800-80	DOWEL PIN	2			100
4	263-55601-03	PIPE	2			100
5	159-65401-03	PIPE, PULSE	1			100
6	263-15911-A1	BLIND PLUG	1			100
7	044-00800-10	OIL SEAL	1			100
8	263-15901-03	UNION	1			100
9	045-01200-10	STEEL BALL	1			100
10	263-76102-H1	SWITCH, OIL PRESSURE	1			100
11	263-11002-D1	MAIN BEARING COVER CP	1			100
12	X60-04500-10	BALL BEARING	1			100
13	044-04200-30	OIL SEAL	1			100
14	263-45001-C1	GOVERNOR GEAR CP	1			100
15	277-41901-03	GOVERNOR SLEEVE	1			100
16	263-46214-A3	WASHER	2			100
17	263-13211-A1	CYLINDER HEAD 1, CP	1			100
18	263-14202-03	VALVE GUIDE	4			100
19	132-07AA0-50	SEAL, INTAKE VALVE	2			100
20	010-50802-90	STUD	8			100
21	X45-00600-10	STEEL BALL	2			100
22	263-13311-A1	CYLINDER HEAD 2, CP	1			100
23	263-15501-A3	ROCKER COVER CP	1			100
24	280-15501-A3	ROCKER COVER CP	1			100
25	263-16101-A3	GASKET, ROCKER COVER	2			100
26	263-15021-21	GASKET 1, CYLINDER HEAD	1			100
27	263-15121-11	GASKET 2, CYLINDER HEAD	1			100
28	263-16002-A3	GASKET, MAIN BEARING COVER	1			100
29	263-16006-03	GASKET, BREATHER PLATE	2			100
30	263-14301-03	BREATHER COVER	1			100
31	280-14401-A1	BREATHER PLATE, CP	1			100
32	263-18003-03	RUBBER PIPE	1			100
33	263-68512-A3	HOSE CLAMP	2			100
34	X31-00600-20	DOWEL PIN	4			100
35	X40-11400-30	PLUG	2			100
36	021-11400-20	GASKET, OIL DRAIN	2			100
37	X11-01000-70	FLANGE BOLT	8			100
38	X11-00802-20	FLANGE BOLT	10			100
39	X11-00600-20	FLANGE BOLT	2			100
40	263-46215-A3	THRUST BEARING	1			100
41	280-19001-A3	HOOK	2			100
42	056-51000-50	CLIP	2			100
43	263-35341-03	RETAINER PLATE	2			100
44	X11-00601-01	FLANGE BOLT	8			100

SECTION 2 CRANKSHAFT GROUP

FIG. 200

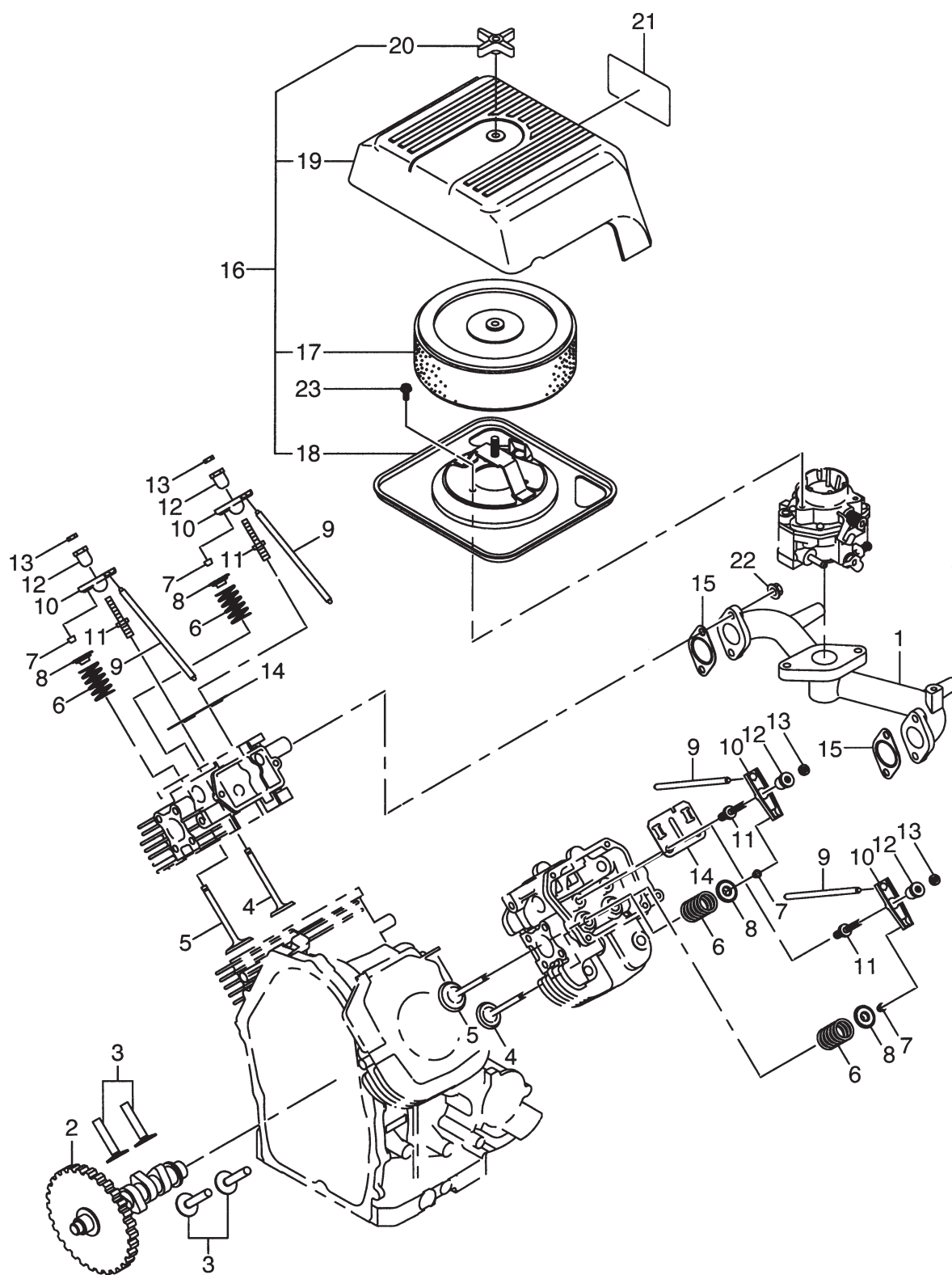


SECTION 2 CRANKSHAFT GROUP

[illegible]

SECTION 3 INTAKE and EXHAUST GROUP

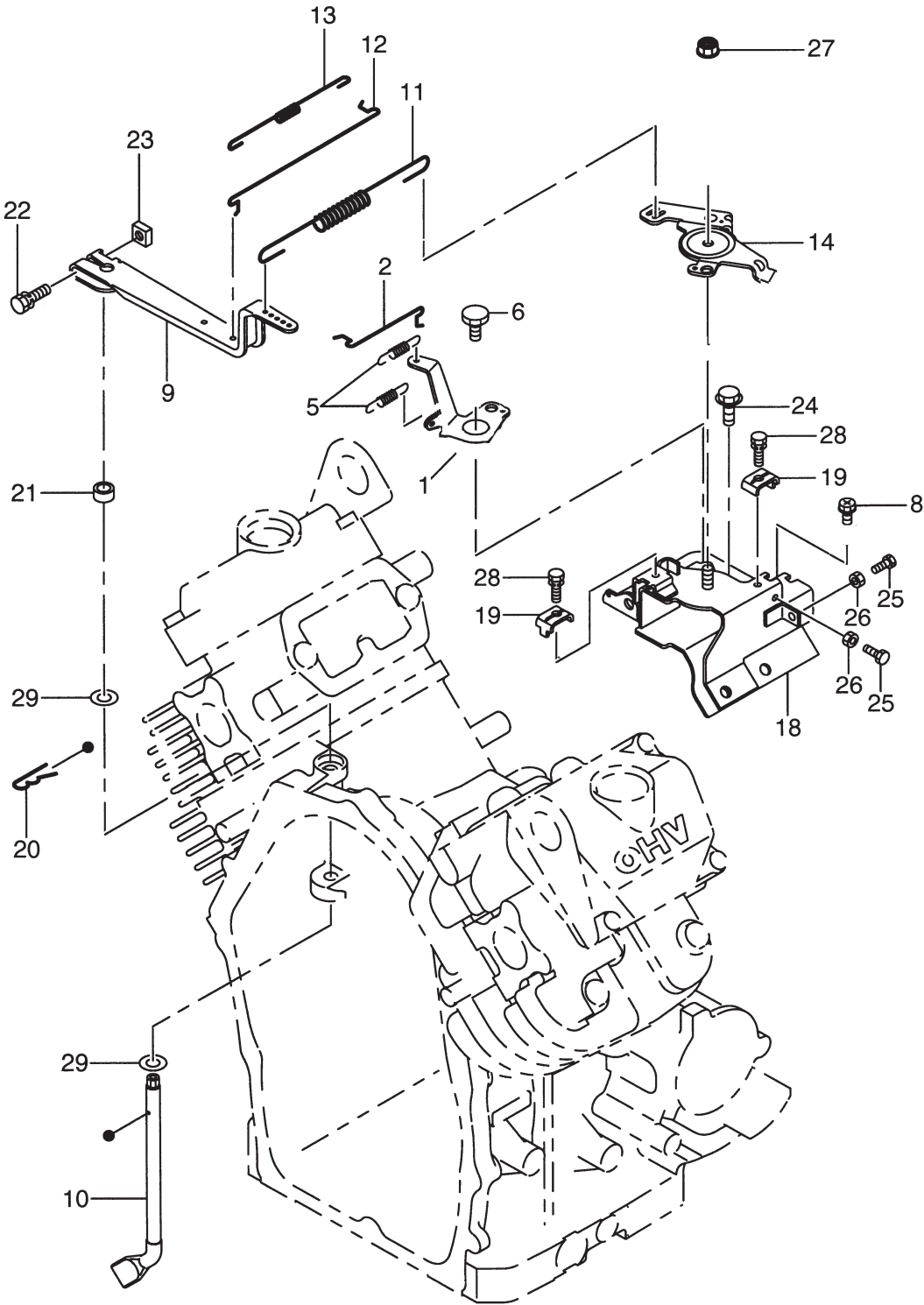
FIG. 300



SECTION 3 INTAKE and EXHAUST GROUP

[illegible]

FIG. 400

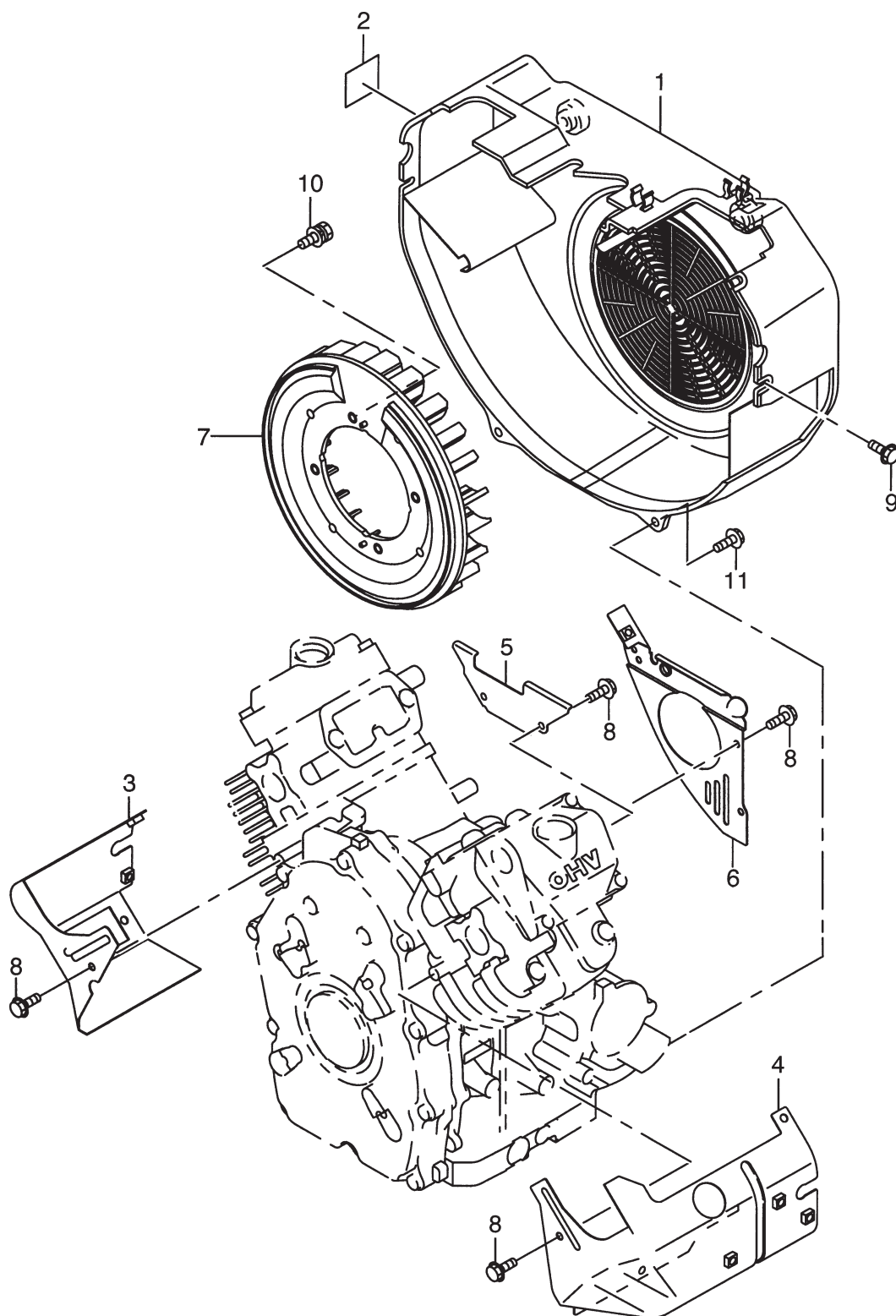


SECTION 4 GOVERNOR GROUP

[illegible]

SECTION 5 COOLING and STARTING GROUP

FIG. 500

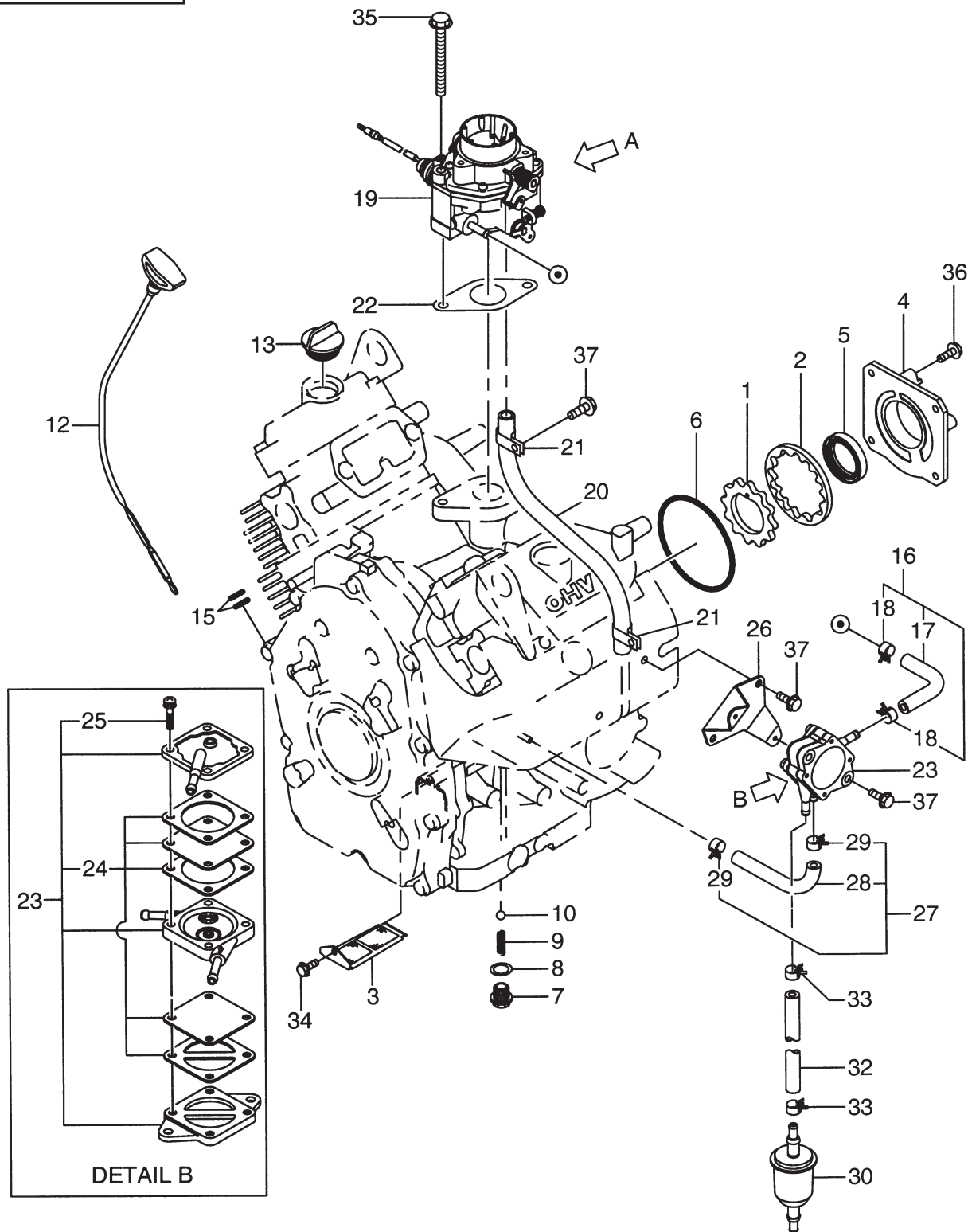


SECTION 5 COOLING and STARTING GROUP

[illegible]

SECTION 6 FUEL and LUBRICATION GROUP

FIG. 600

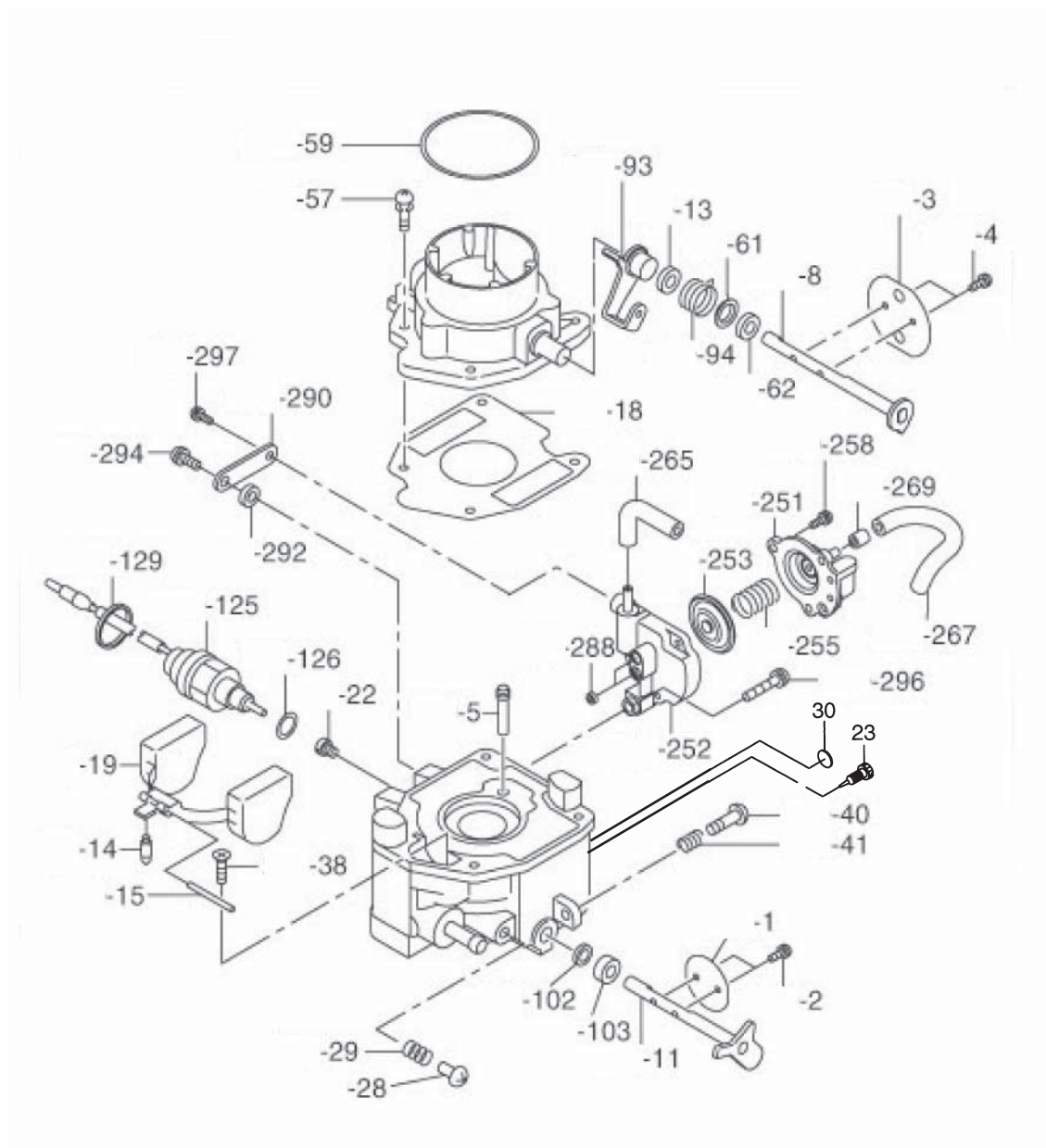


SECTION 6 FUEL and LUBRICATION GROUP

[illegible]

SECTION 6 CARBURETOR GROUP

FIG. 640

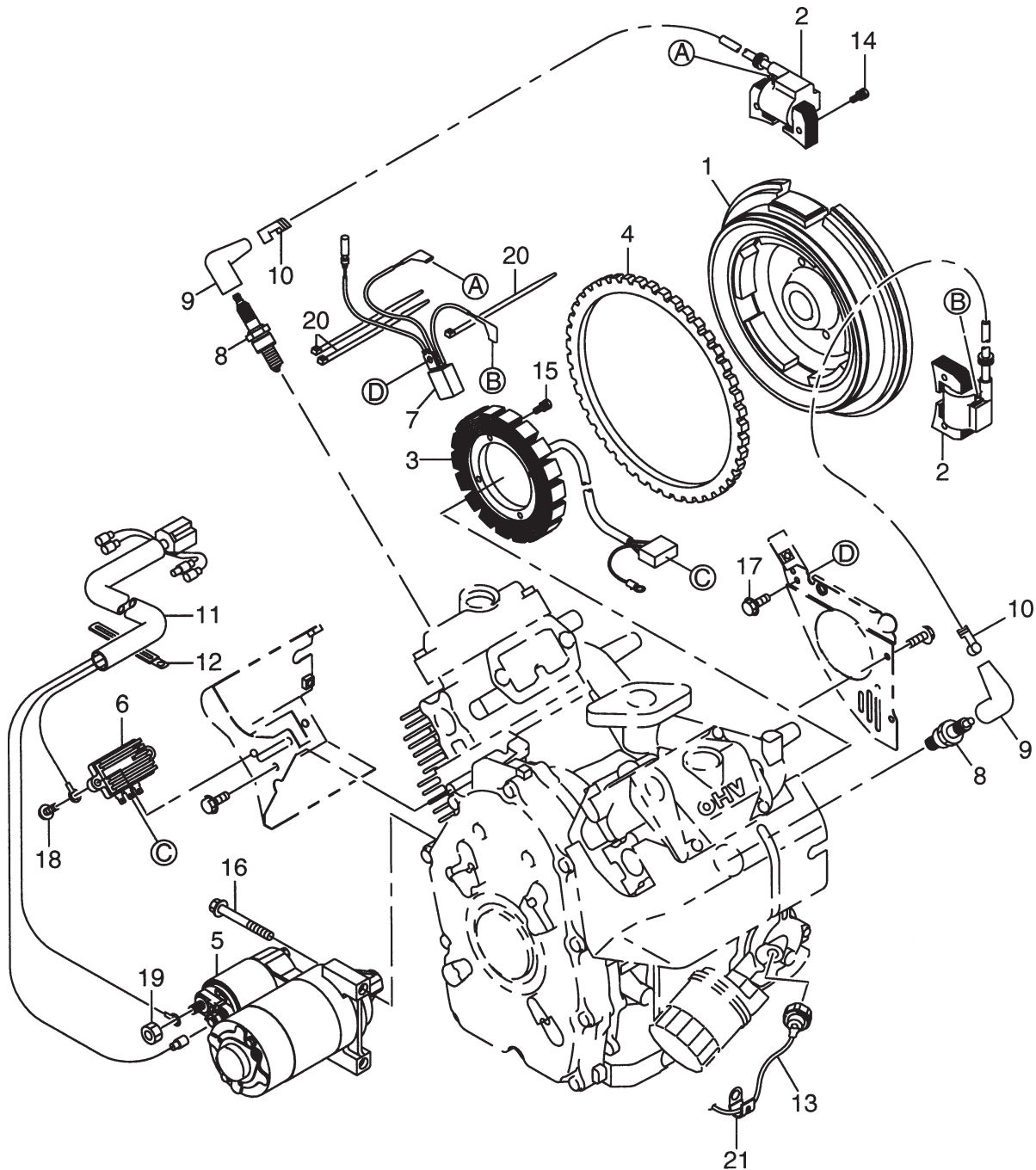


SECTION 6 CARBURETOR GROUP

REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	FROM-TO	FIG.
19	263-62392-00	CARBURETORY AY	1			640
-1	263-62535-08	VALVE, THROTTLE	1			640
-2	261-62352-08	SCREW, VALVE SET	2			640
-3	263-62528-08	VALVE, CHOKE	1			640
-4	258-62555-08	SCREW SET (VALVE)	2			640
-5	263-62423-08	JET, SLOW (#50)	1			640
-8	263-62520-08	SHAFT ASSY, CHOKE	1			640
-11	263-62530-08	SHAFT ASSY, THROTTLE	1			640
-13	258-62551-08	RING (CHOKE LEVER)	1			640
-14	263-62507-08	VALVE, FLOAT	1			640
-15	258-62515-08	FLOAT PIN	1			640
-18	280-62545-08	GASKET, AIR HORN	1			640
-19	280-62505-08	FLOAT	1			640
-22	263-62400-08	JET, MAIN	1			640
-23	263-62452-08	NEEDLE, IDLE, ADJUST	1			640
-28	215-62353-08	SCREW, DRAIN	1			640
-29	215-62446-08	SPRING, DRAIN	1			640
-30	261-62358-08	PLUG, EXPANSION	1			640
-38	258-62556-08	SCREW SET (FLOAT PIN)	1			640
-40	263-62451-08	SCREW, THRO. ADJUST	1			640
-41	258-62445-08	SPRING (ADJUST SCREW)	1			640
-57	258-62450-08	SCREW SET (AIR HORN)	4			640
-59	263-62560-08	O-RING, AIR HORN	1			640
-61	280-62551-08	COLLAR, CHOKE	1			640
-62	258-62554-08	FILTER (CHOKE SHAFT)	1			640
-93	263-62524-08	LEVER ASSY, CHOKE	1			640
-94	263-62445-08	SPRING, CHOKE	1			640
-102	226-62580-08	FILTER, AIR	1			640
-103	258-62570-08	COLLAR (THRO. SHAFT)	1			640
-125	263-62556-08	VALVE CP, (SOLENOID)	1			640
-126	258-62546-08	GASKET, MAIN PASSAGE	1			640
-129	258-62566-08	CLAMP (SOLENOID) WIRE	1			640
-251	280-62359-08	COVER AY, PUMP	1			640
-252	280-62361-08	BODY AY, PUMP	1			640
-253	280-62358-08	DIAPHRAGM AY, PUMP	1			640
-255	280-62320-08	SPRING, PUMP DIAPH	1			640
-258	263-62585-08	SCREW, WITH WASHER	3			640
-265	280-62356-08	PIPE, CONNECTOR	1			640
-267	280-62357-08	HOSE, RUBBER (85MM)	1			640
-269	280-62450-08	JET, ECONOMIZER BLEED	1			640
-288	280-62355-08	U RING	2			640
-290	280-62589-08	HOLDER, PUMP BODY	1			640
-292	280-62588-08	SPACER	1			640
-294	247-69969-08	SCREW, COVER SET	1			640
-296	280-62587-08	SCREW, BODY SET	1			640
-297	263-62585-08	SCREW, WITH WASHER	1			640

SECTION 9 ELECTRIC DEVICE GROUP

FIG. 910

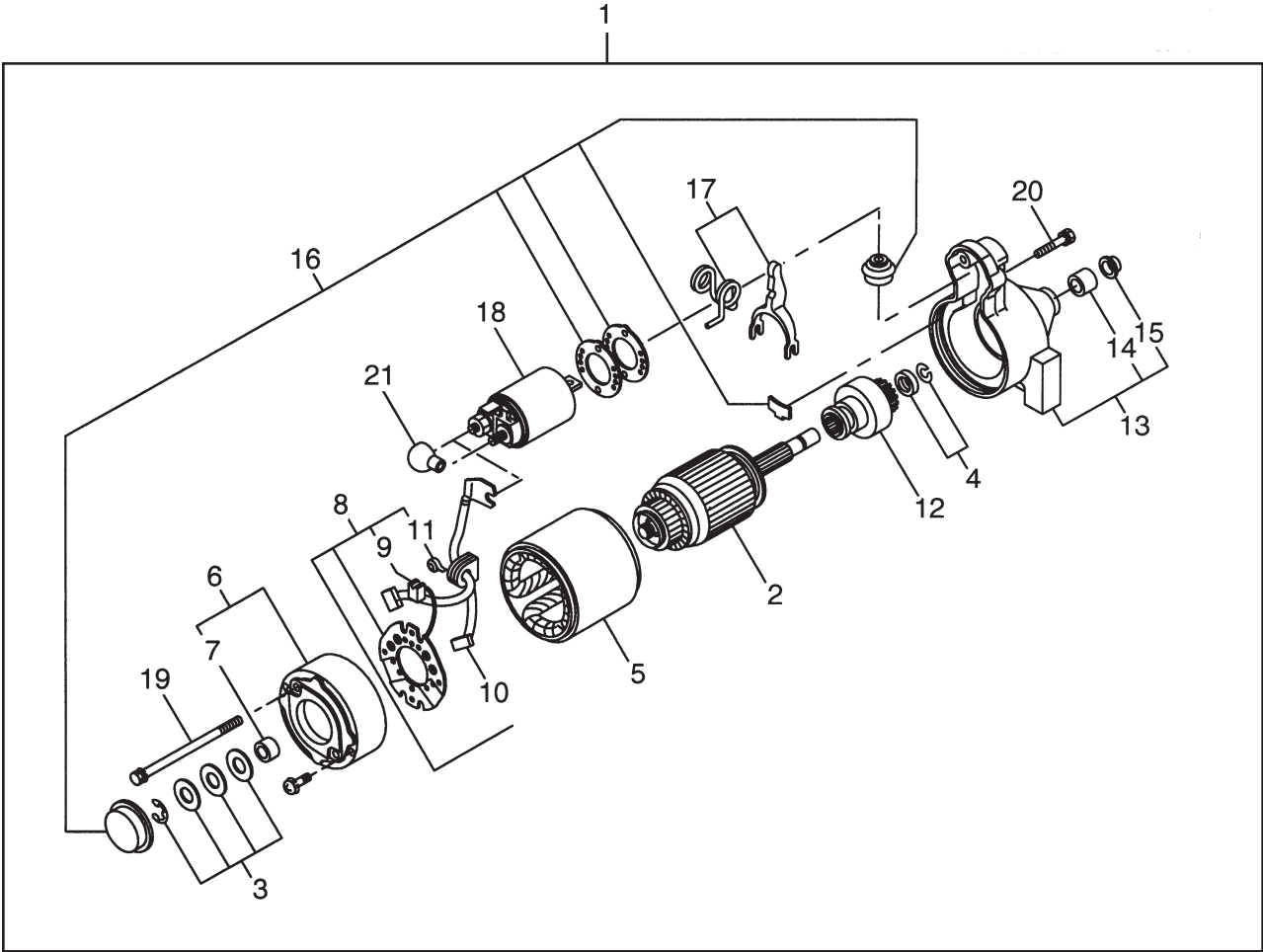


SECTION 9

ELECTRIC DEVICE GROUP

[illegible]

FIG. 1000



SECTION 10 STARTING MOTOR GROUP

[illegible]

PRINTED IN THE USA