



PARTS MANUAL

Model
EH09
ENGINE

EH090D42000
EH090D42010
EH090D42020
EH090D42030
EH090D42040
EH090D42050
EH090D42060
EH090D42070
EH090D42080
EH090D45010
EH090D45020



1	EH090D42000
2	EH090D42010
3	EH090D42020
4	EH090D42030
5	EH090D42040
6	EH090D42050
7	EH090D42060
8	EH090D42070
9	EH090D42080
10	EH090D45010
11	EH090D45020

Numbers in the remarks columns show corresponding product number. Parts which are not specified with numbers are used in all the products. Please see chart above.

HOW TO USE THIS MANUAL

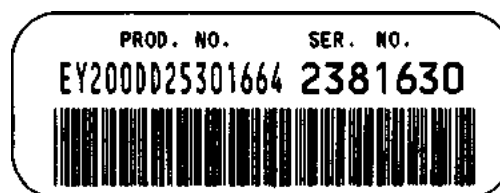


Robin engines are identified by MODEL, SPECIFICATION, and CODE NUMBER. For each model there may be many different versions called specifications. Each specification will be unique in some way. The difference may only be the paint color or it may have a different type of PTO or some other significant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

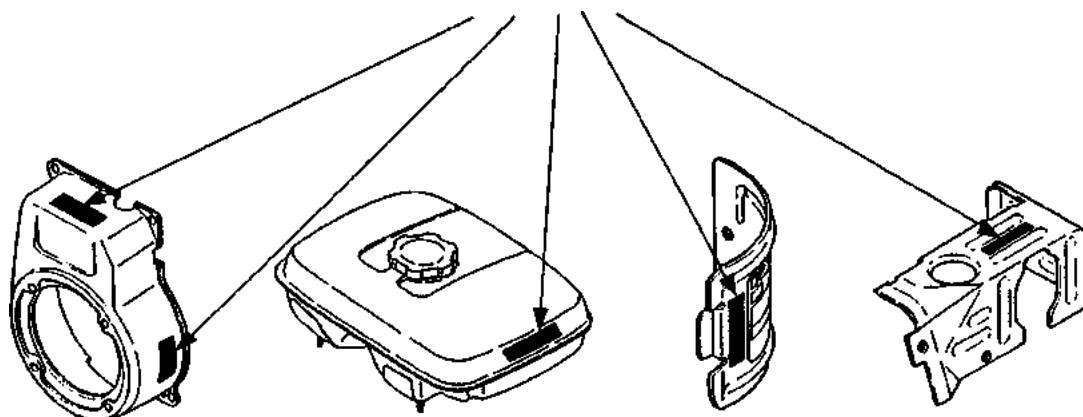
In order to identify the correct service part number, it is important to confirm the specification and code numbers for your engine. The specification and code number together are known as the PRODUCT NUMBER.

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

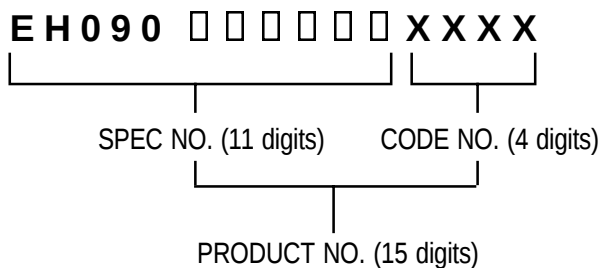
PRODUCT NUMBER LABEL



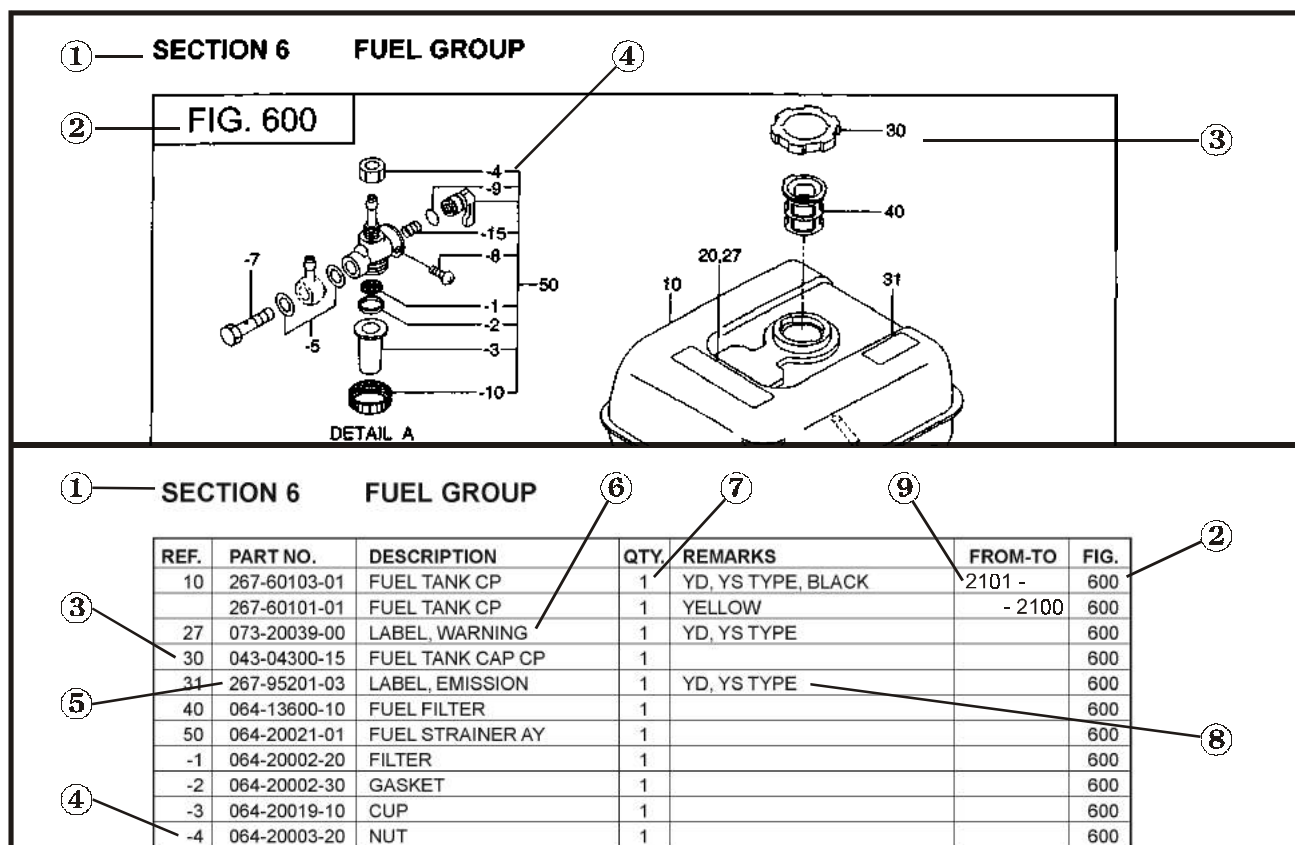
PRODUCT NUMBER LABEL LOCATIONS



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



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.

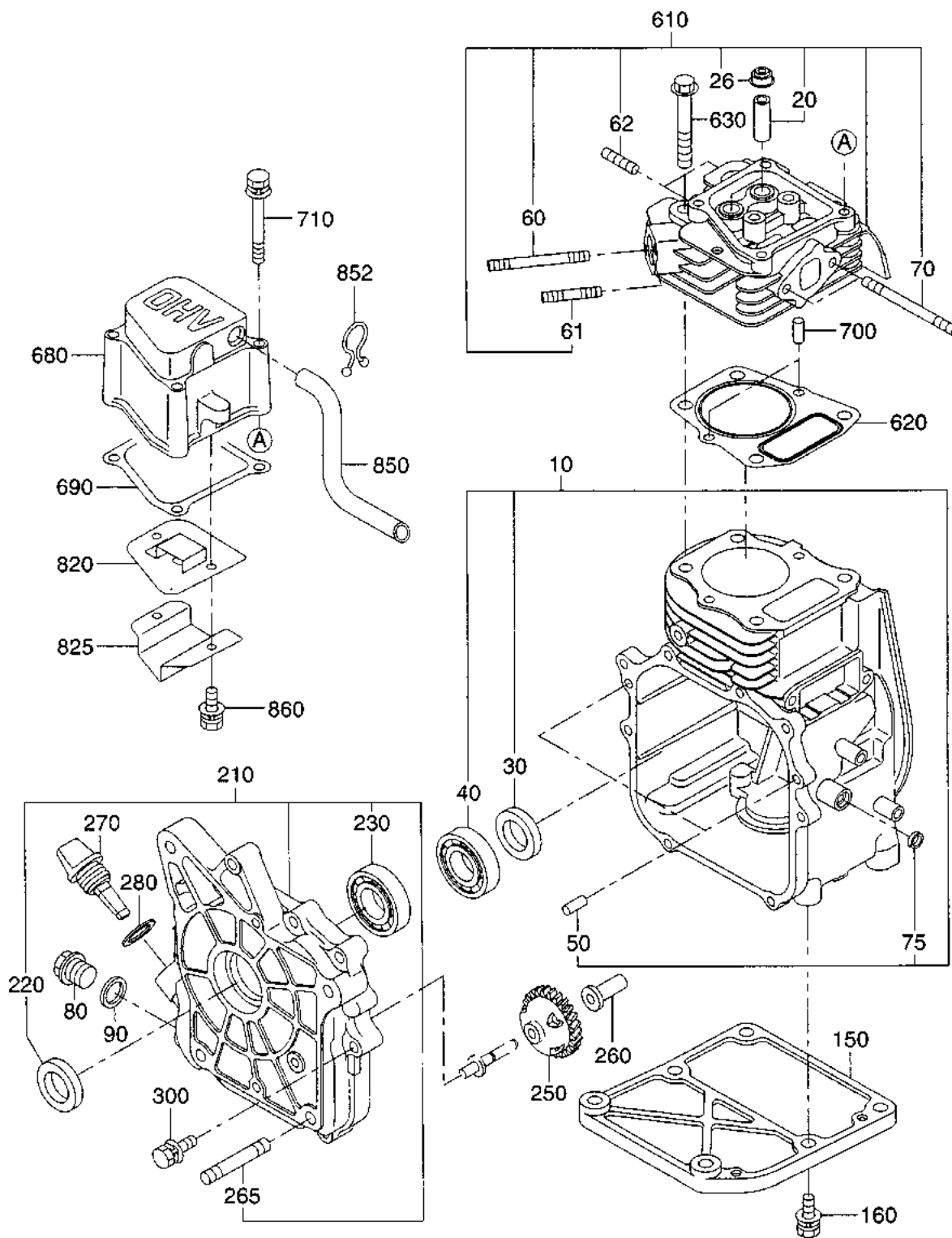


GROUP INDEX

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GOVERNOR GROUP	12
COOLING and STARTING GROUP	14
FUEL GROUP - CARBURETOR	16
ELECTRIC DEVICE GROUP	18

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

FIG. 100





SECTION 1 CRANKCASE GROUP

REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	FROM-TO	FIG.
10	274-10101-21	CRANKCASE CP	1			100
20	237-14202-03	VALVE GUIDE	2	Oversize		100
26	237-16008-01	STEM SEAL	1			100
30	044-02000-70	OIL SEAL	1	20 X 32 X 6		100
40	060-02001-40	BALL BEARING	1			100
50	031-00600-20	DOWEL PIN	2			100
60	001-39066-00	STUD	1			100
61	010-50602-00	STUD	1			100
62	010-50601-70	STUD	2			100
70	010-50601-60	STUD	2			100
75	044-00600-10	OIL SEAL	1	6 X 10 X 2.5		100
80	040-11400-30	PLUG	1			100
90	021-11400-20	GASKET	1			100
150	274-16001-13	STIFFENER	1	3, 5, 8-11		100
160	001-14082-50	BOLT and WASHER AY	2	3, 5, 8-11		100
210	274-11001-31	MAIN BEARING COVER	1			100
220	044-02001-10	OIL SEAL	1	20 X 32 X 6		100
230	060-02001-40	BALL BEARING	1			100
250	230-45003-01	GOVERNOR GEAR CP	1			100
260	205-41901-03	GOVERNOR SLEEVE	1			100
265	001-39085-00	STUD	4			100
270	230-63601-13	OIL GAUGE	1			100
280	021-31600-20	GASKET	1			100
300	013-00602-00	BOLT and WASHER AY	9			100
610	274-13001-31	CYLINDER HEAD CP	1			100
620	274-15001-03	GASKET, head	1			100
630	011-00802-10	FLANGE BOLT	4			100
680	274-15502-03	ROCKER COVER	1			100
690	274-16004-03	GASKET, rocker cover	1			100
700	031-00600-20	DOWEL PIN	2			100
820	274-14401-01	BREATHER PLATE CP	1			100
825	274-14405-03	OIL SHELTER PLATE 2	1			100
850	274-16101-03	BREATHER PIPE	1			100
852	056-90000-10	PURSE LOCK 1	1			100
860	001-13051-00	BOLT and WASHER AY	2			100
*	274-99001-07	GASKET SET	1			100
		Gasket set includes the following: Fig. 100 items 90, 280, 620, 690 Fig. 300 items 340, 510-2, 550, 560				

FIG. 200

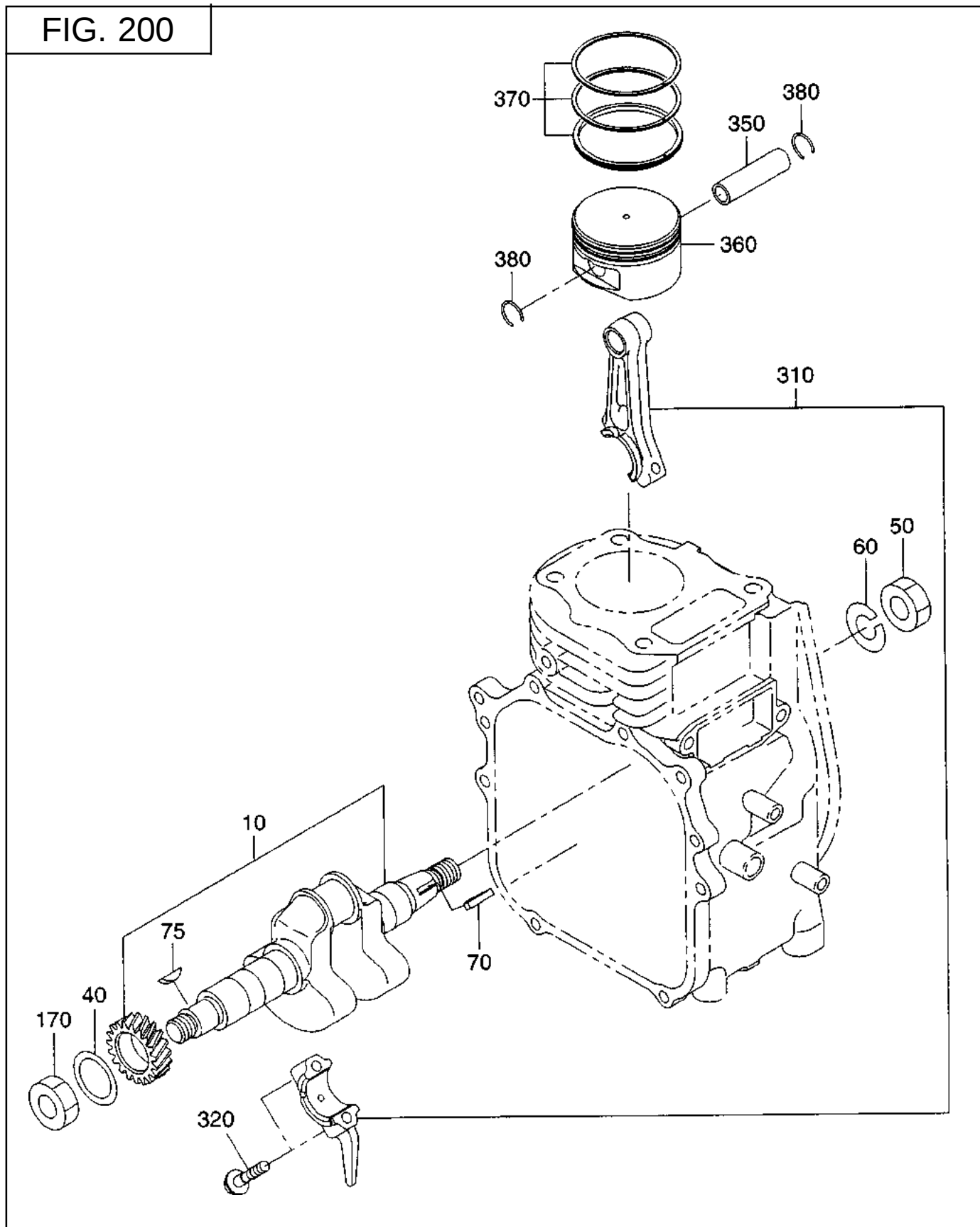
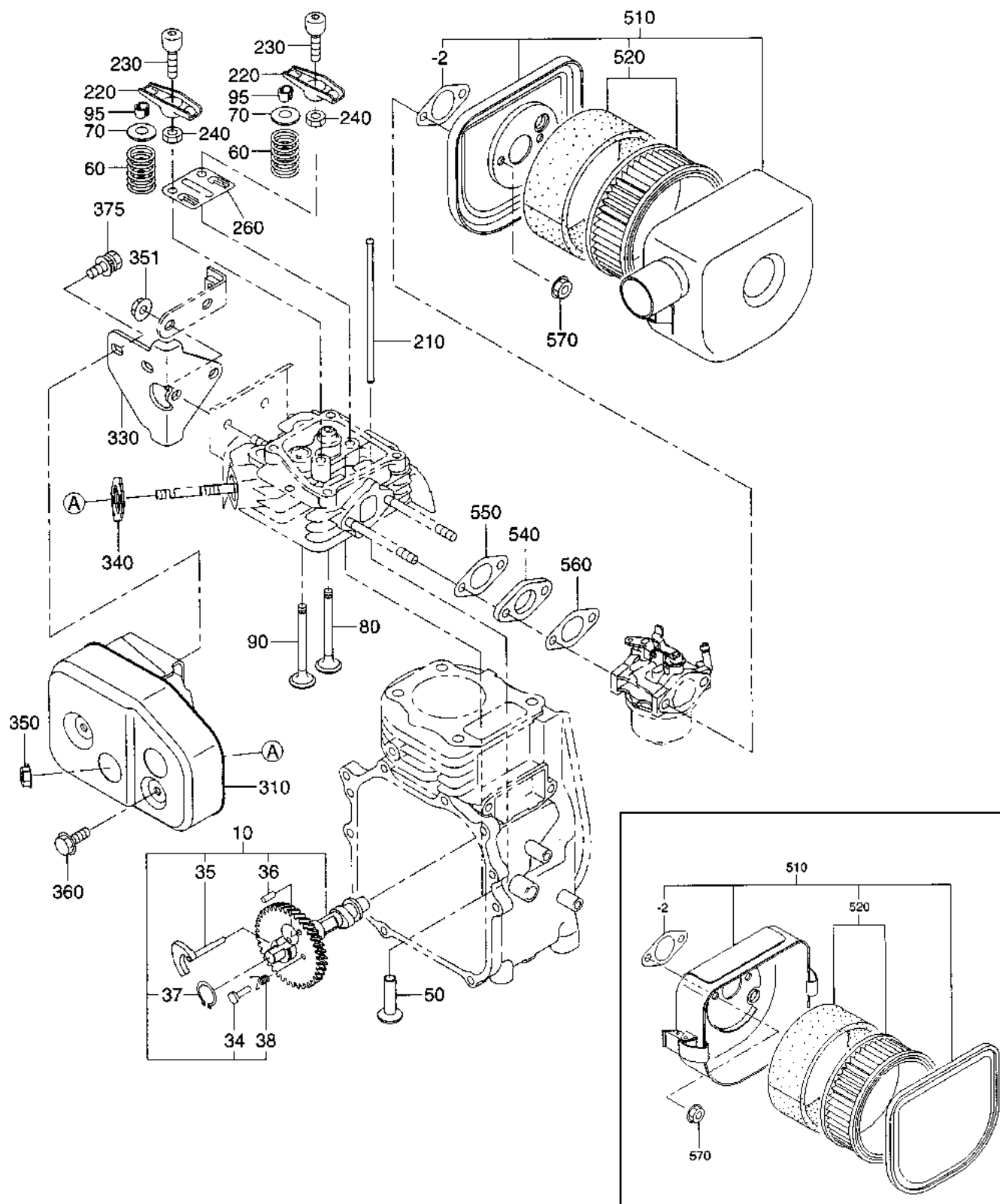


FIG. 300





SECTION 3

[illegible]

This exploded view diagram illustrates the assembly of a 100cc OHV engine. The central component is the engine block, which includes the cylinder, crankcase, and carburetor. Surrounding the engine are various sub-assemblies and individual parts, each labeled with a number:

- Top Assembly:** Includes the cylinder head (385), piston (235), and connecting rod (486). The piston is secured with a pin (230). The connecting rod is attached to the crankshaft with a pin (480).
- Valve Train:** Shows the intake and exhaust valves (200) and their respective springs (345). The valves are held in place by retainers (280) and secured with pins (210).
- Bottom Assembly:** Includes the crankshaft (370) and the crankcase (360).
- Other Components:** Includes the carburetor (50), the air filter (20), the timing belt (40), the timing belt pulley (30), the timing belt cover (10), the timing belt tensioner (80), the timing belt guide (70), and the timing belt (60).

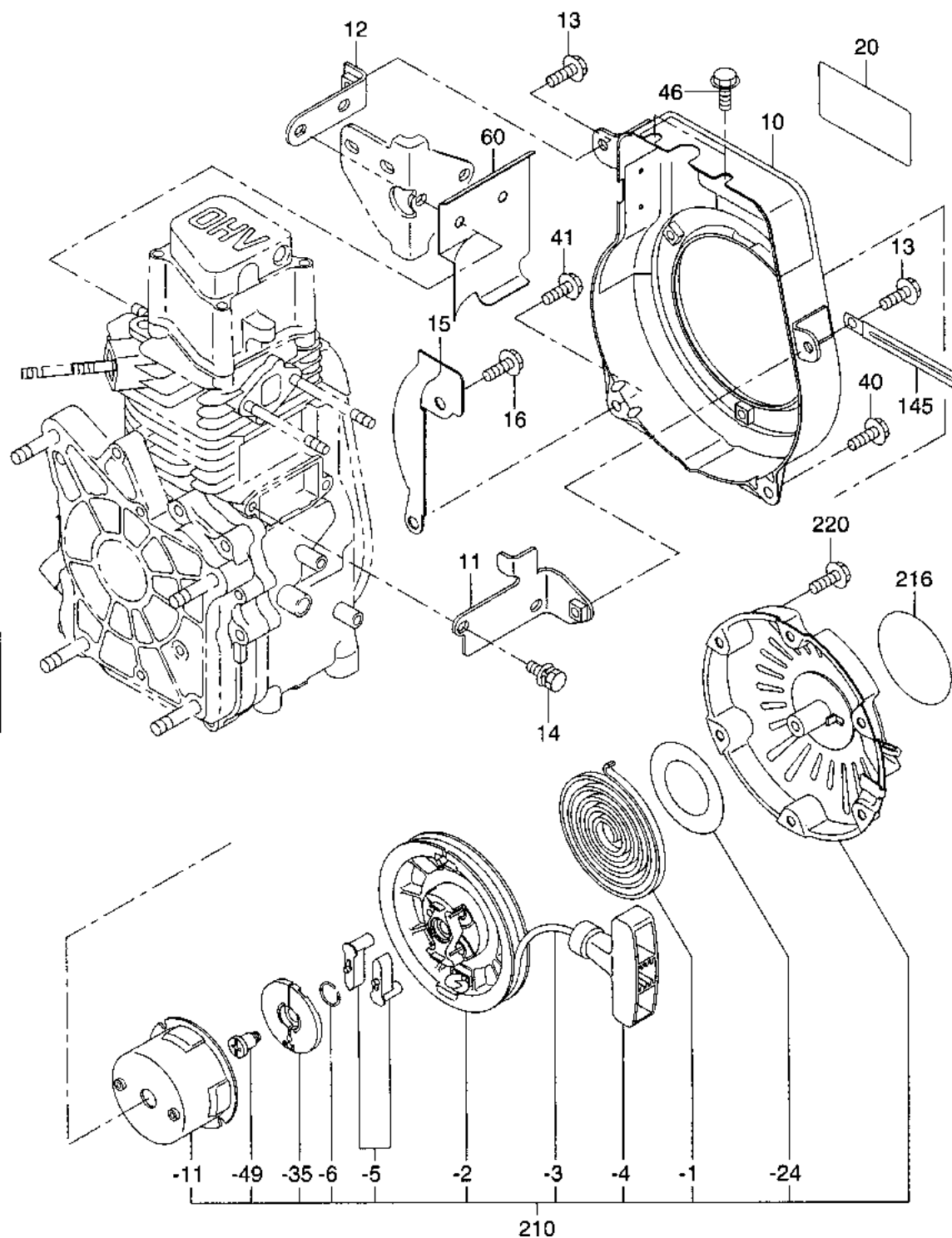
A dashed line labeled 'A' indicates the assembly point for the timing belt and its associated components.



SECTION 4 GOVERNOR GROUP

[illegible]

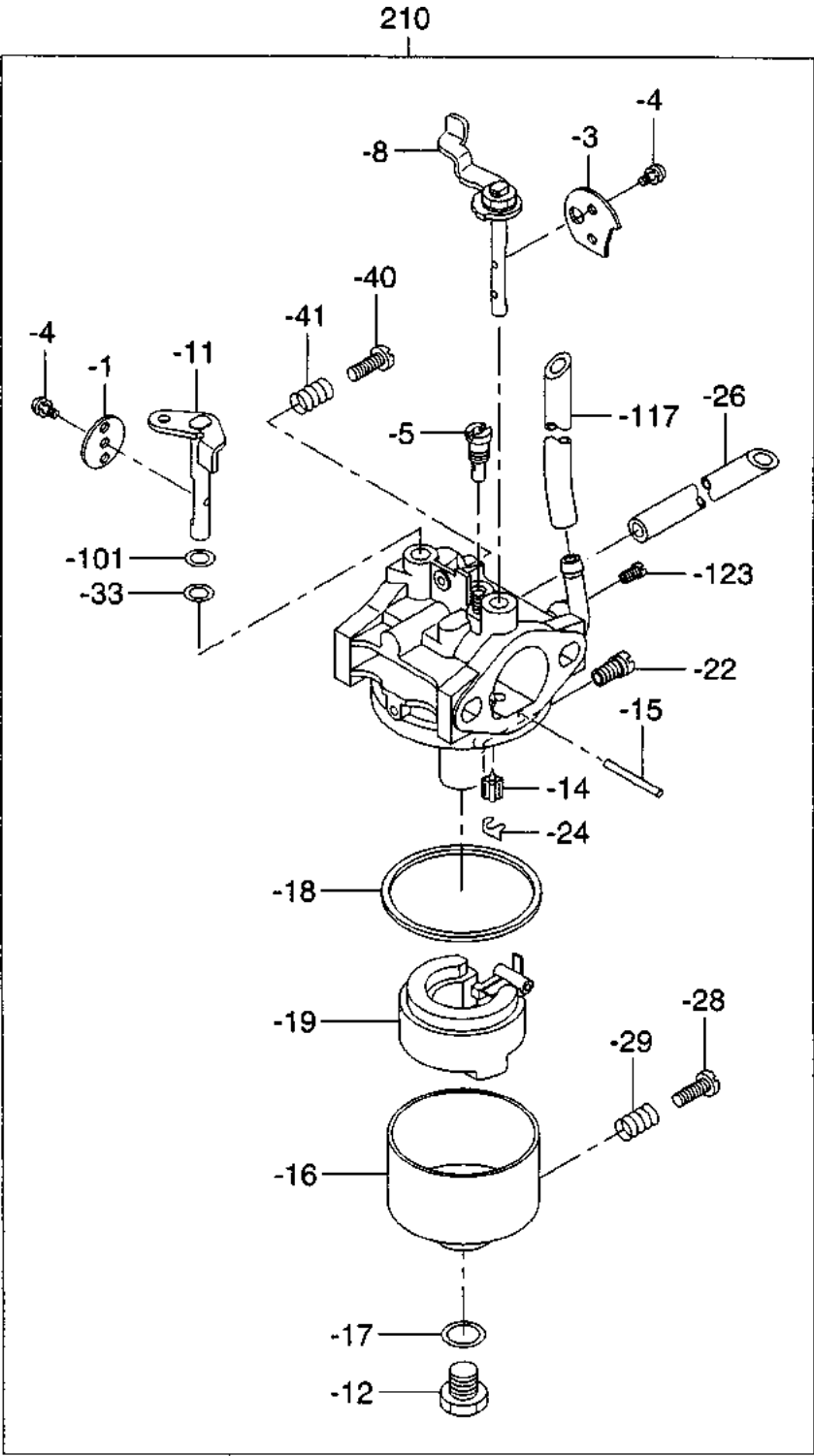
FIG. 500



'00-02



FIG. 600



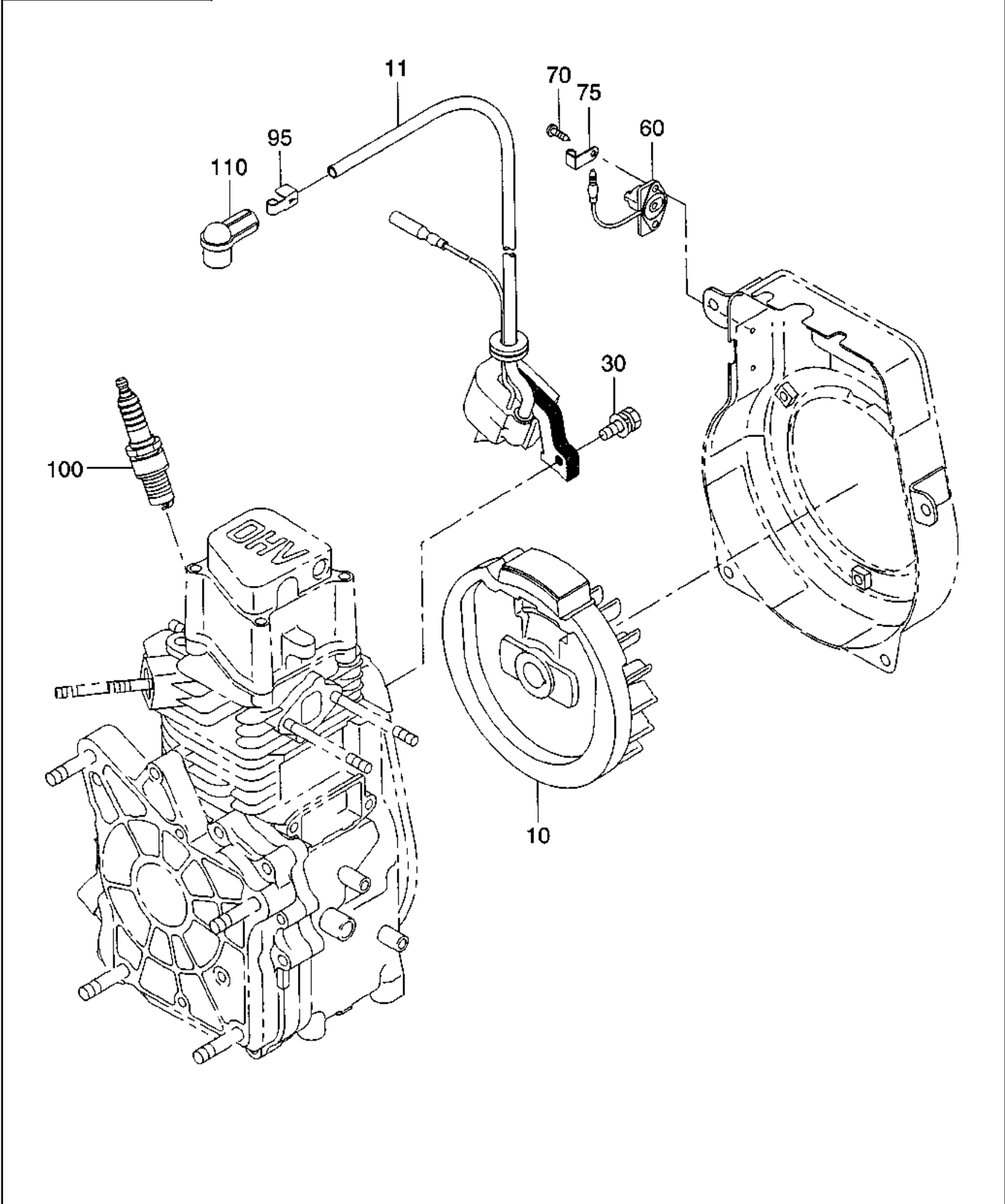


SECTION 6

[illegible]



FIG. 700

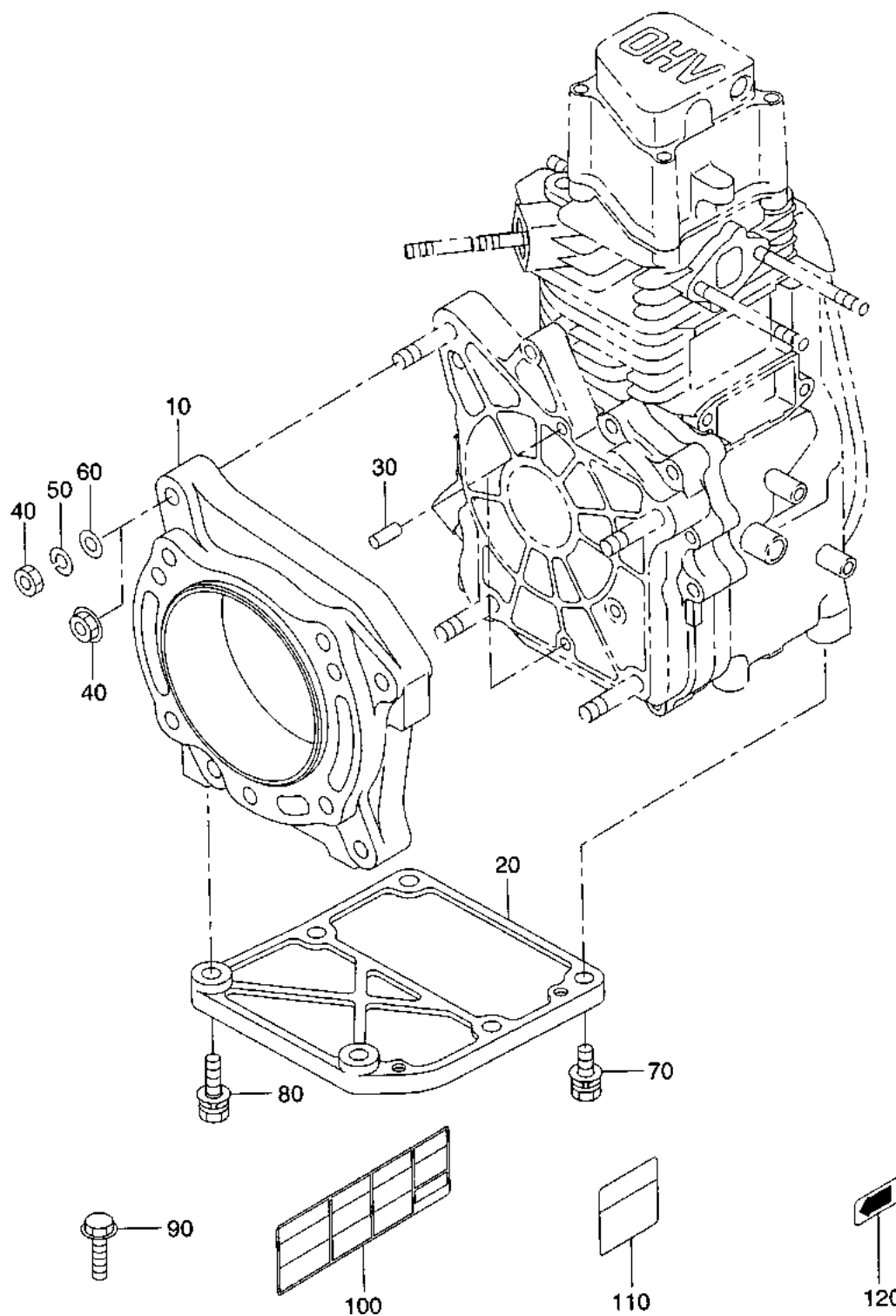




SECTION 7

[illegible]

FIG. 800





LOOSE SHIP PARTS

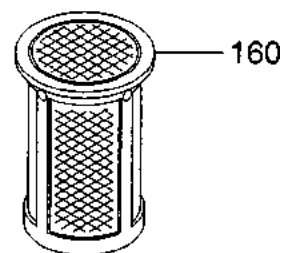
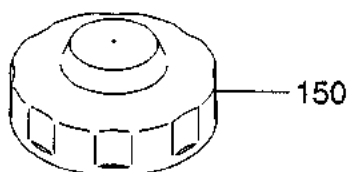
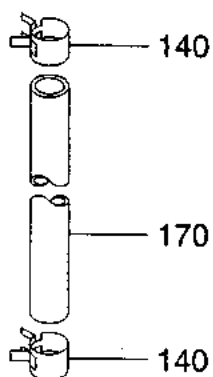
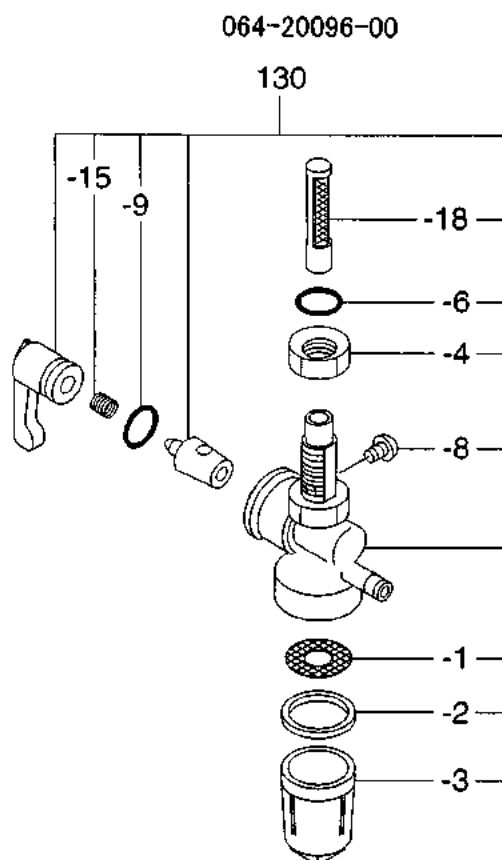
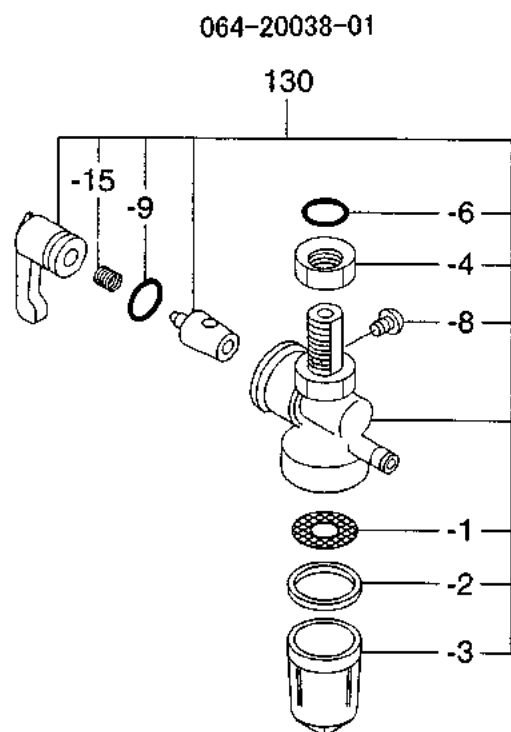
[illegible]

SECTION 8 LOOSE SHIP PARTS

FIG. 810

- ② EH090D42010
- ④ EH090D42030
- ⑦ EH090D42060

- ⑥ EH090D42050





LOOSE SHIP PARTS

[illegible]

