

PARTS MANUAL

Model

EY20

ENGINE

PUB-EP5705A
Rev. 03/00

Robin America, Inc.

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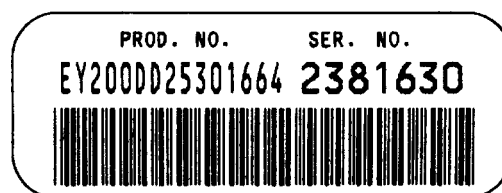
HOW TO USE THIS MANUAL

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.

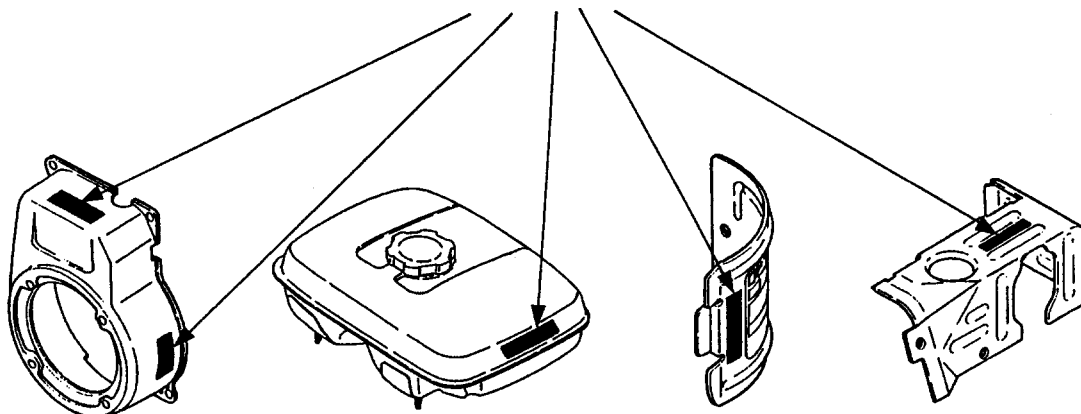
In order to identify the correct service part number, it is important to confirm the specification and code numbers for your engine. The specification and code number together are known as the PRODUCT NUMBER.

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

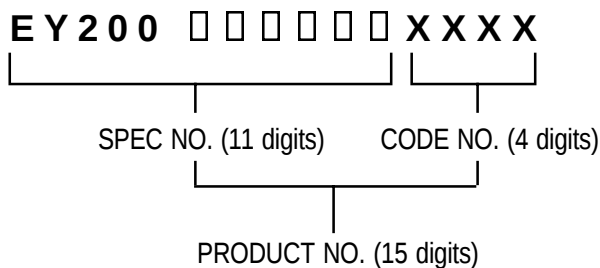
PRODUCT NUMBER LABEL



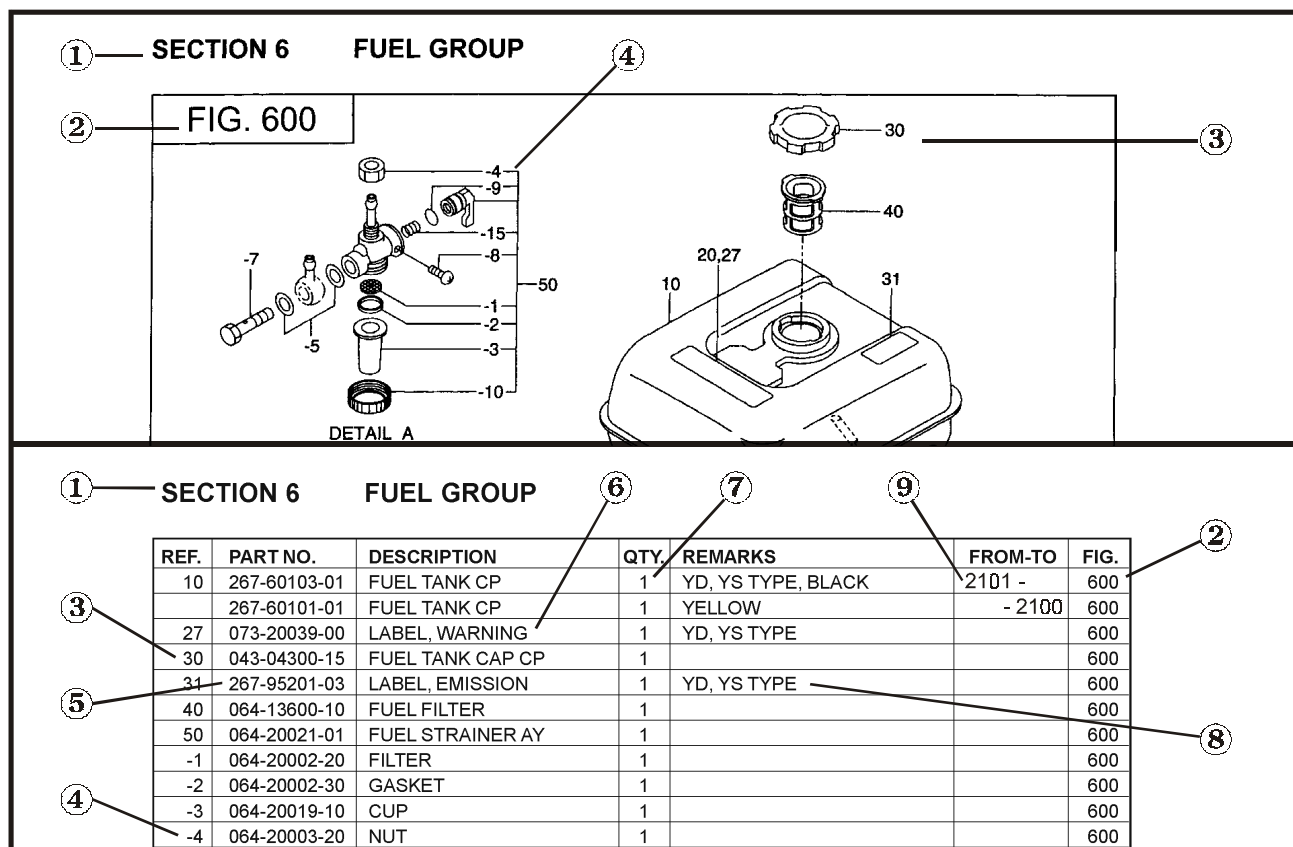
PRODUCT NUMBER LABEL LOCATIONS



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.

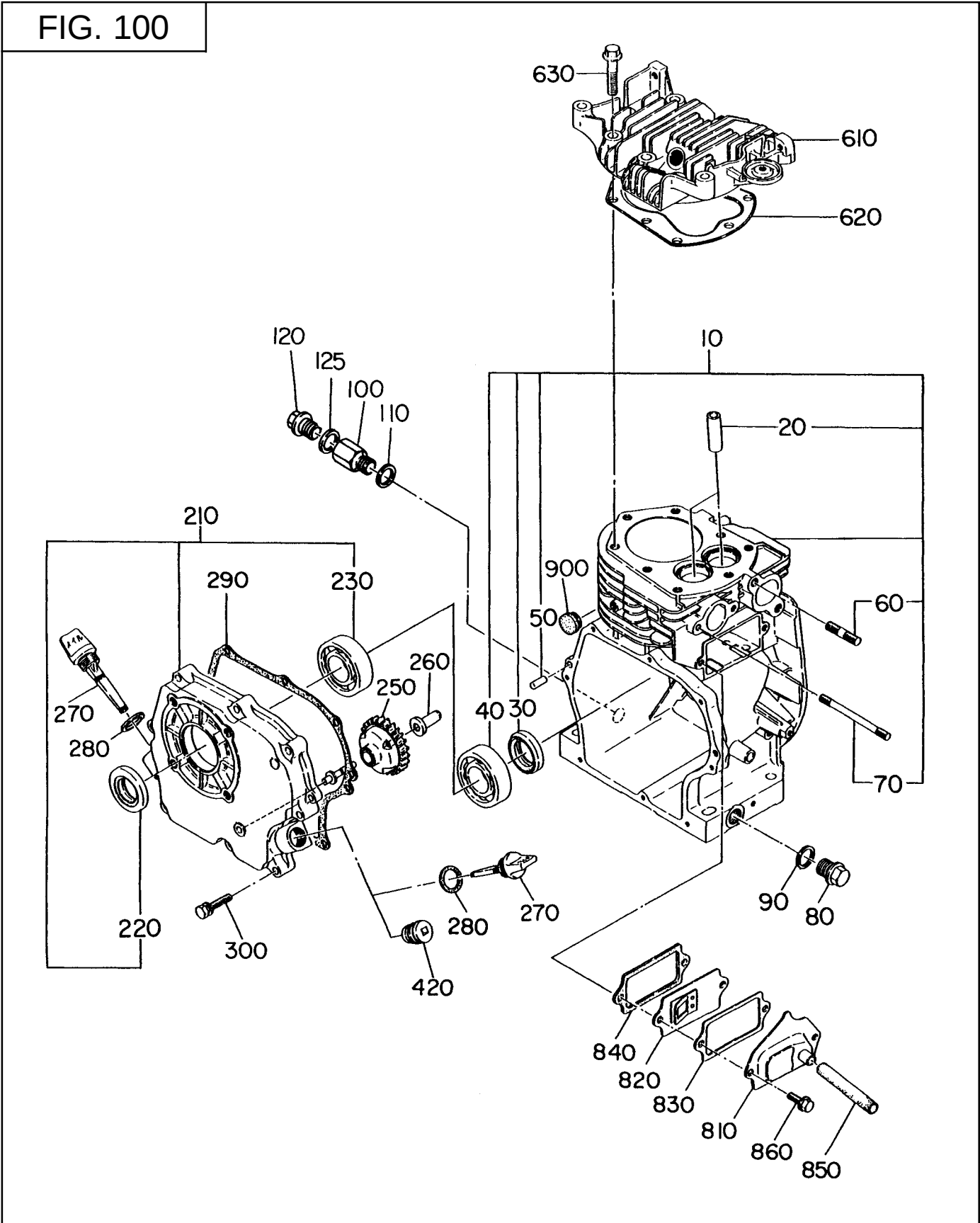
GROUP INDEX

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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

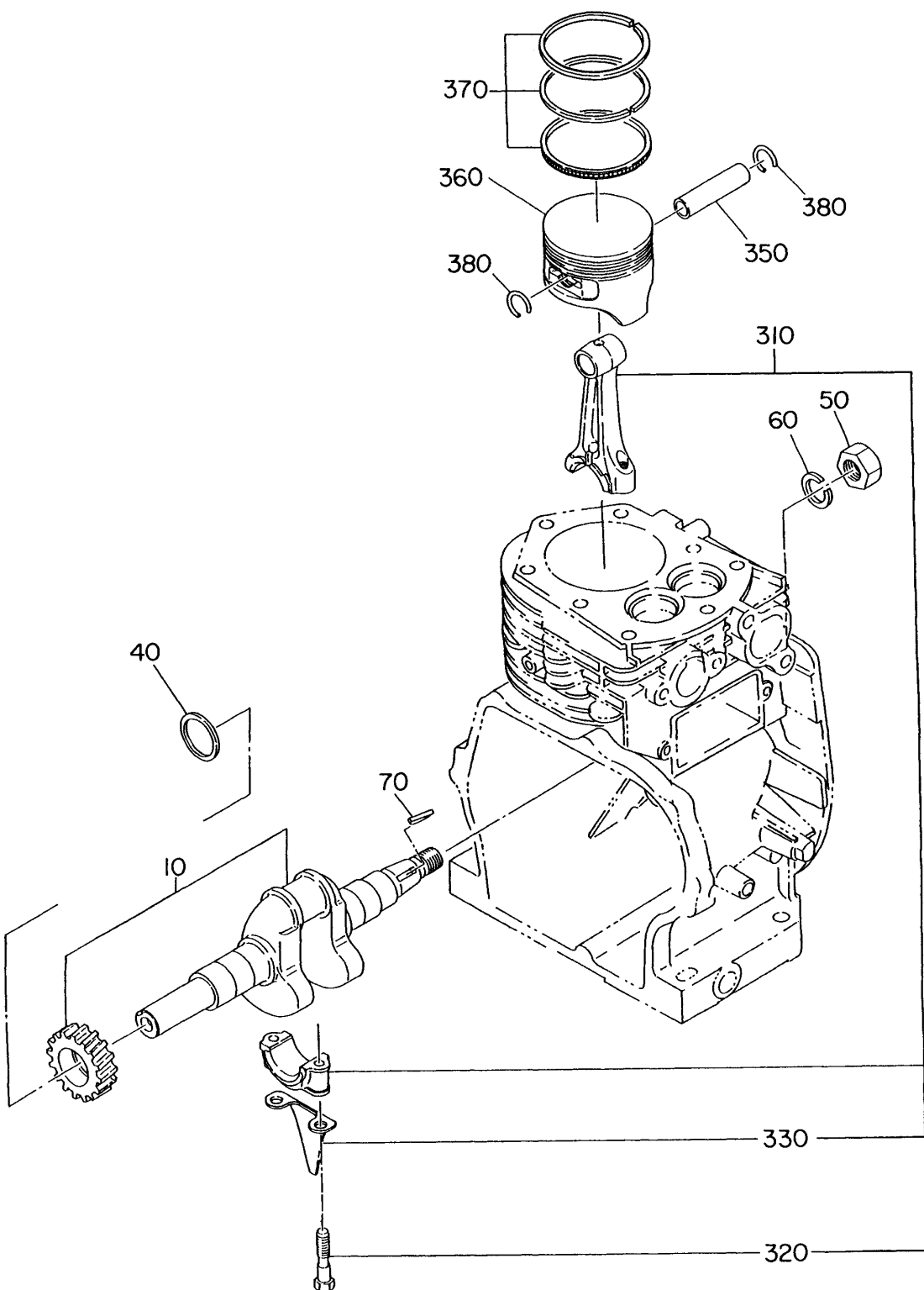


SECTION 1 CRANKCASE GROUP

REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	FROM-TO	FIG.
10	227-10101-21	CRANKCASE, compl.	1			100
20	227-14202-03	VALVE GUIDE	2			100
30	044-02501-50	OIL SEAL	1			100
40	060-02500-10	BALL BEARING	1			100
50	031-00600-20	DOWEL PIN	2			100
60	010-50802-50	STUD	2			100
70	010-50601-20	STUD	2			100
80	040-11400-30	PLUG	2			100
90	021-11400-20	GASKET	2			100
100	050-21000-10	UNION	1			100
110	021-81400-10	SEAL WASHER	1			100
120	040-11000-11	PLUG	1			100
125	021-81000-10	SEAL WASHER	1			100
420	042-01800-10	RUBBER PLUG	1			100
210	227-11002-31	MAIN BEARING COVER, compl.	1			100
220	044-02501-60	OIL SEAL	1			100
230	060-02500-10	BALL BEARING	1			100
250	227-45003-01	GOVERNOR GEAR, compl.	1			100
260	205-41901-03	GOVERNOR SLEEVE	1			100
270	227-63601-03	OIL GAUGE	2			100
280	021-31600-20	GASKET	2			100
290	227-16001-03	GASKET, bearing cover	1			100
300	013-00600-40	BOLT and WASHER, AY	8			100
610	227-13001-13	CYLINDER HEAD	1			100
620	227-15001-11	GASKET, head	1			100
630	011-00800-10	FLANGE BOLT	8			100
810	227-14301-01	TAPPER COVER, compl.	1			100
820	227-14401-01	BREATHER PLATE, compl.	1			100
830	261-16006-03	GASKET, tappet cover	1			100
840	261-16007-03	GASKET, breather plate	1			100
850	085-10800-00	RUBBER PIPE	1	8 X 11 X M		100
860	011-00600-20	FLANGE BOLT	2			100
900	226-75501-03	GROMMET	1			100
*960	227-99001-07	GASKET SET	1			100
		* Gasket Set 227-99001-07 includes the following: Fig. 100 items 280, 290, 620, 830 and 840 Fig. 300 items 340, 550 and 560 Fig. 310 item 510-2				

SECTION 2 CRANKSHAFT GROUP

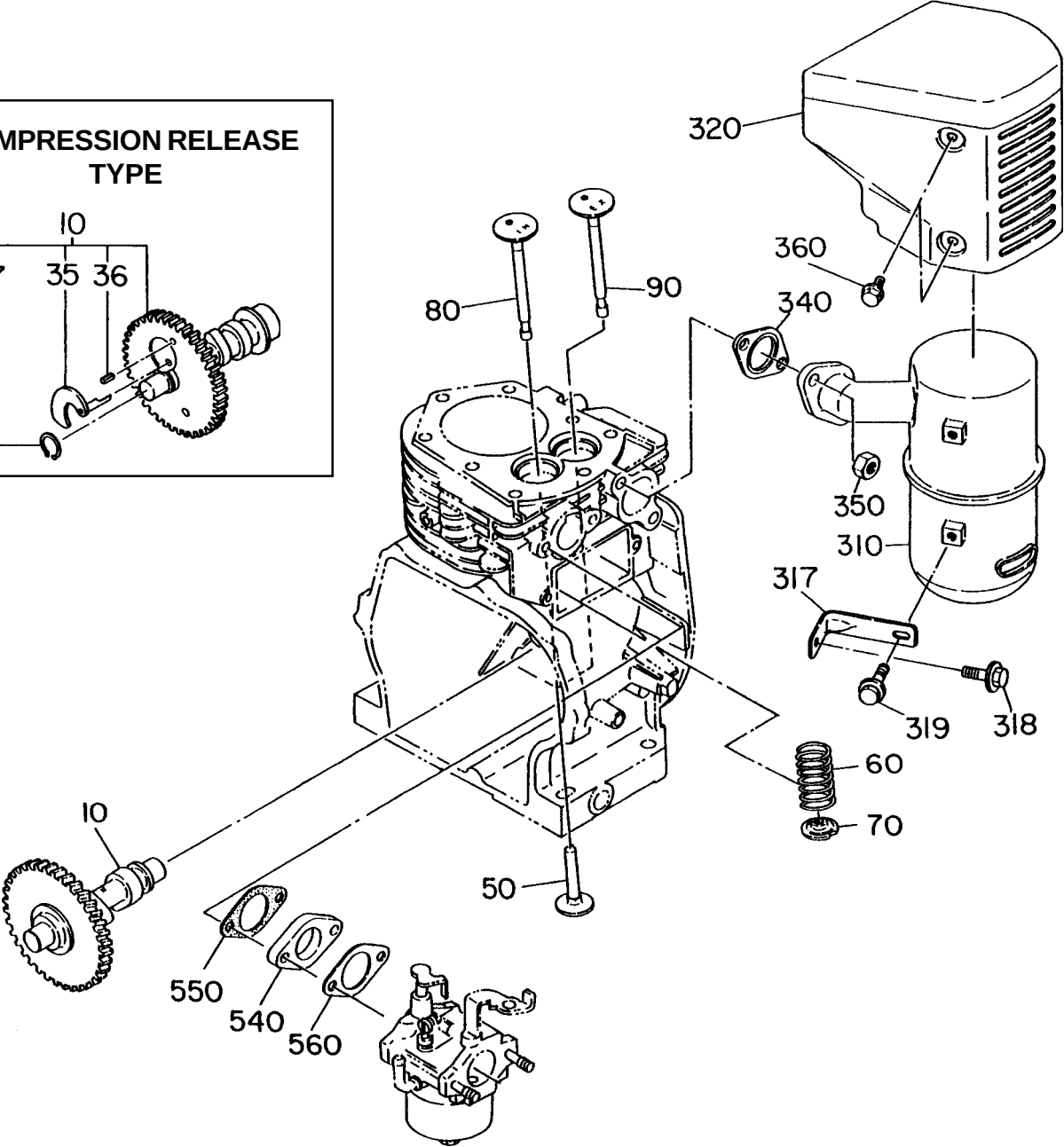
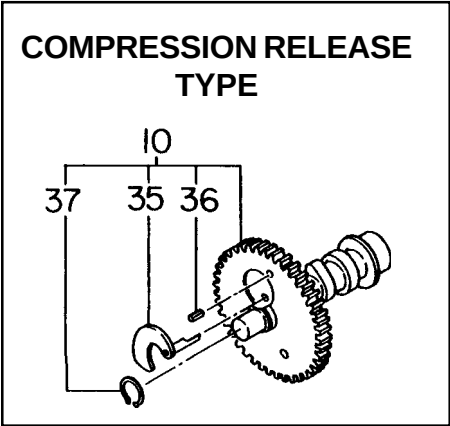
FIG. 200



SECTION 2 CRANKSHAFT GROUP

[illegible]

FIG. 300



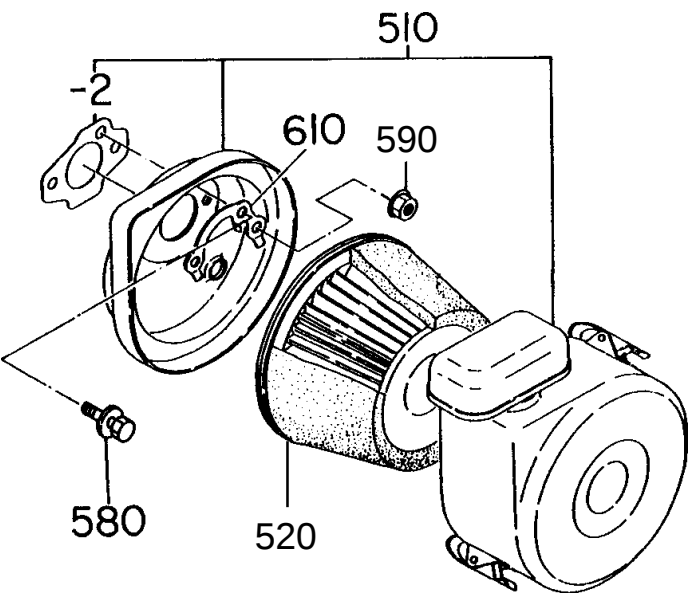
SECTION 3

INTAKE and EXHAUST GROUP

[illegible]

FIG. 310

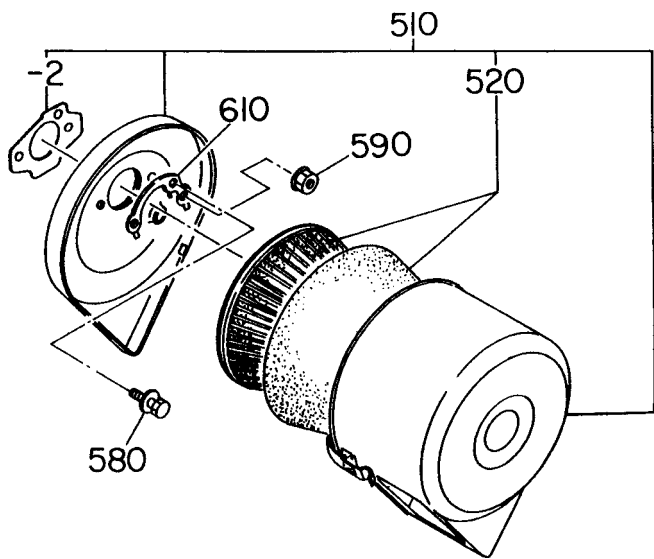
Premium - Top Inlet Cyclone



A

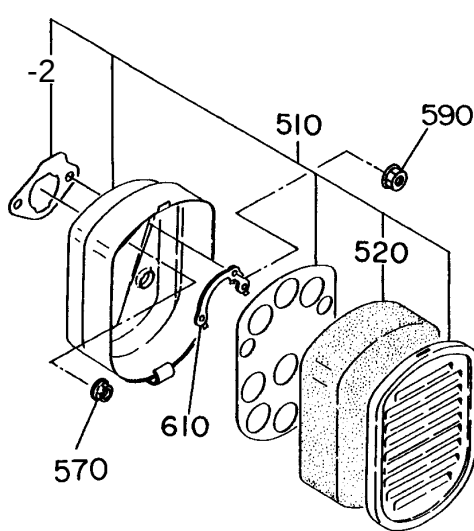
B

Standard - Cyclone



C

Foam Element

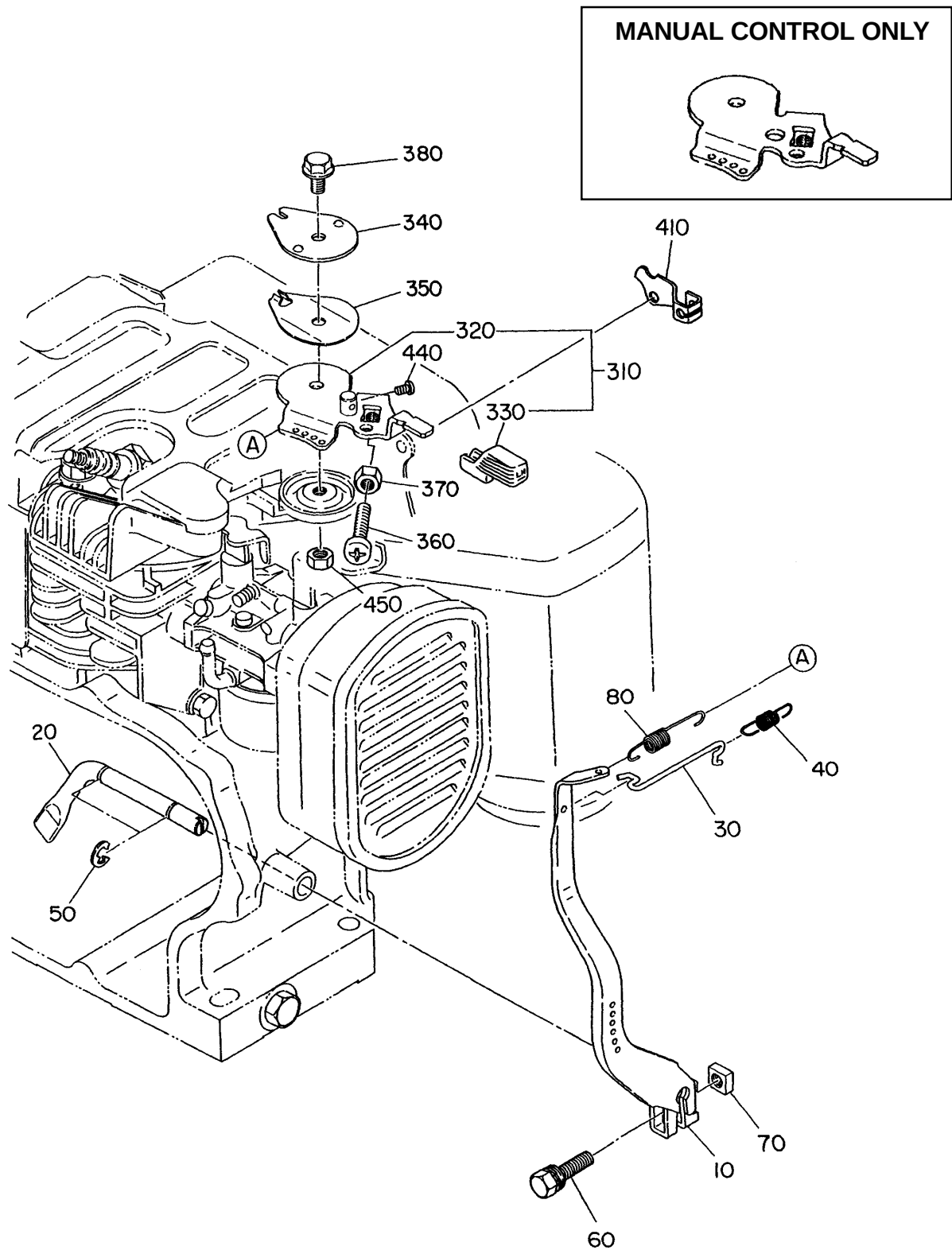


SECTION 3

INTAKE and EXHAUST GROUP

[illegible]

FIG. 400 MANUAL WITH UPPER REMOTE CABLE CONTROL



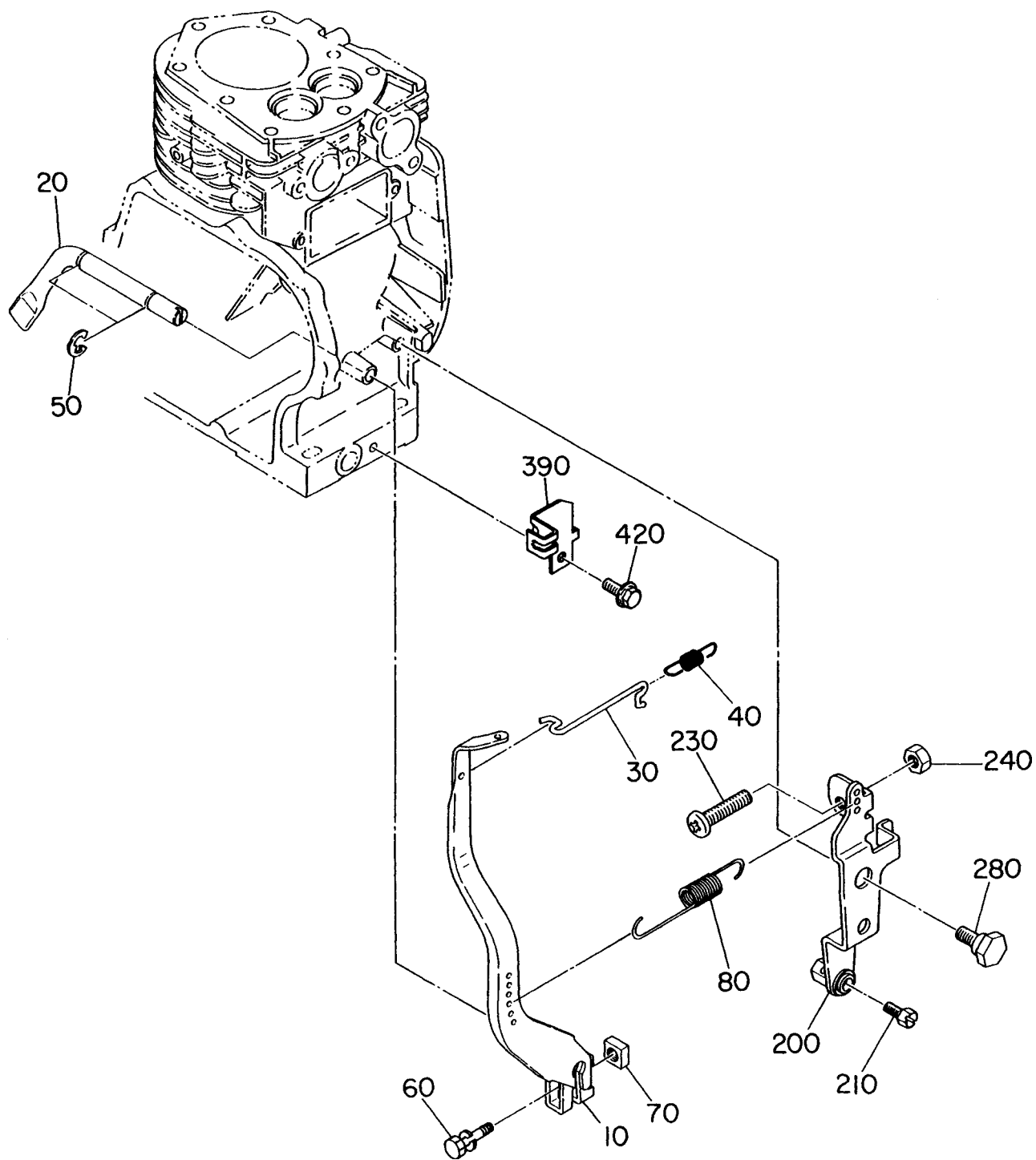
SECTION 4 GOVERNOR GROUP

[illegible]

GOVERNOR GROUP

FIG. 410

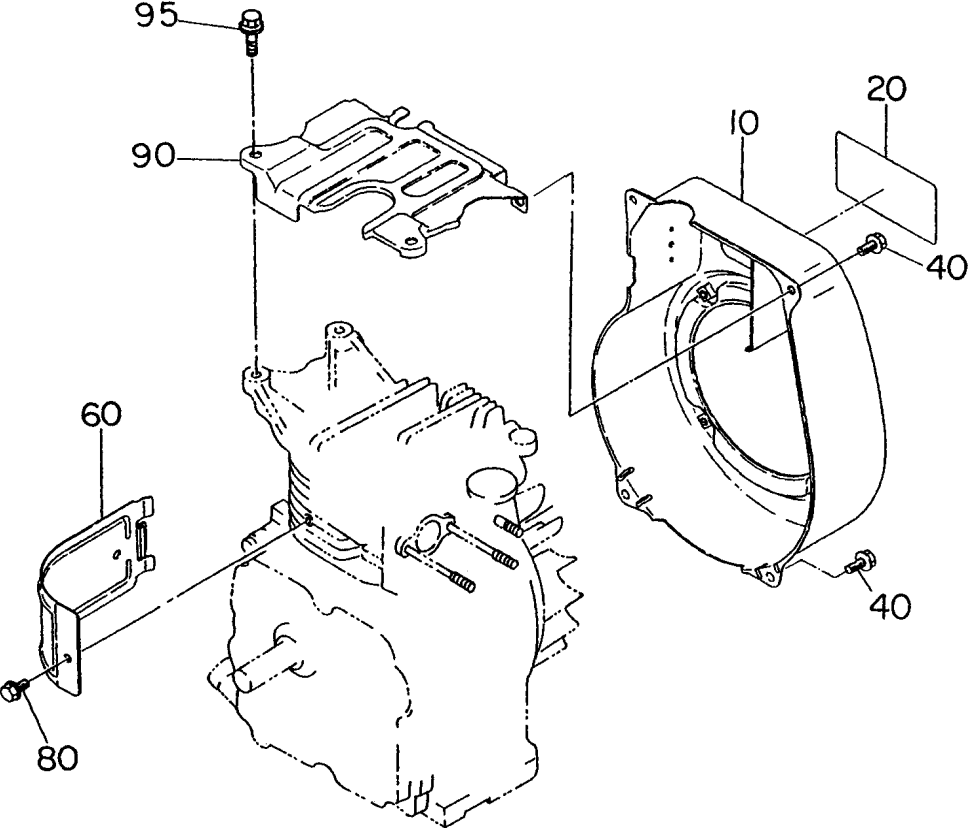
LOWER REMOTE CABLE CONTROL



SECTION 4 GOVERNOR GROUP

[illegible]

FIG. 500



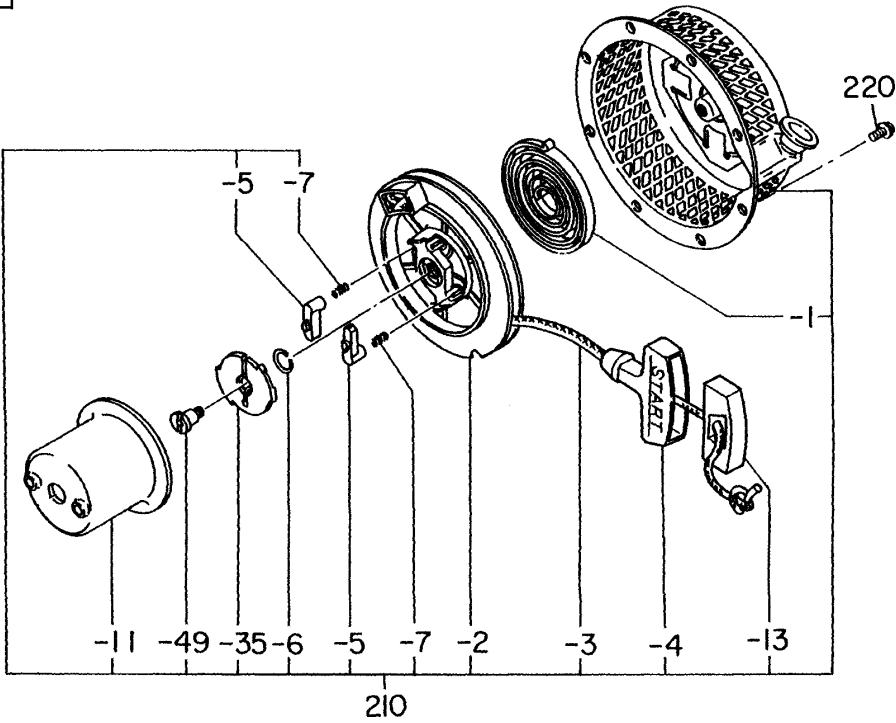
SECTION 5

COOLING and STARTING GROUP

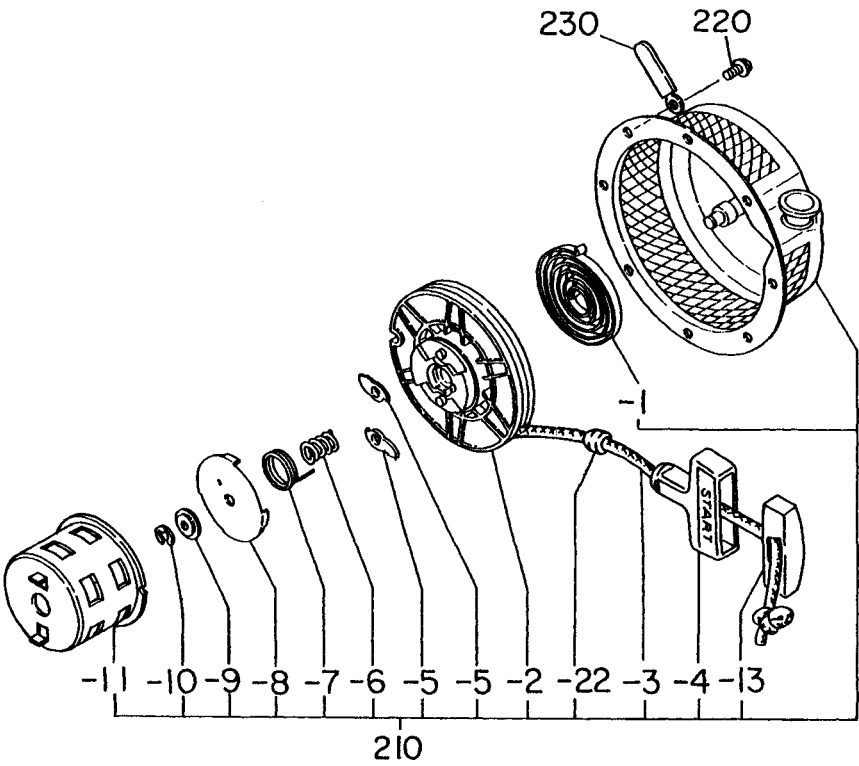
[illegible]

FIG. 510

NEW STYLE



OLD STYLE

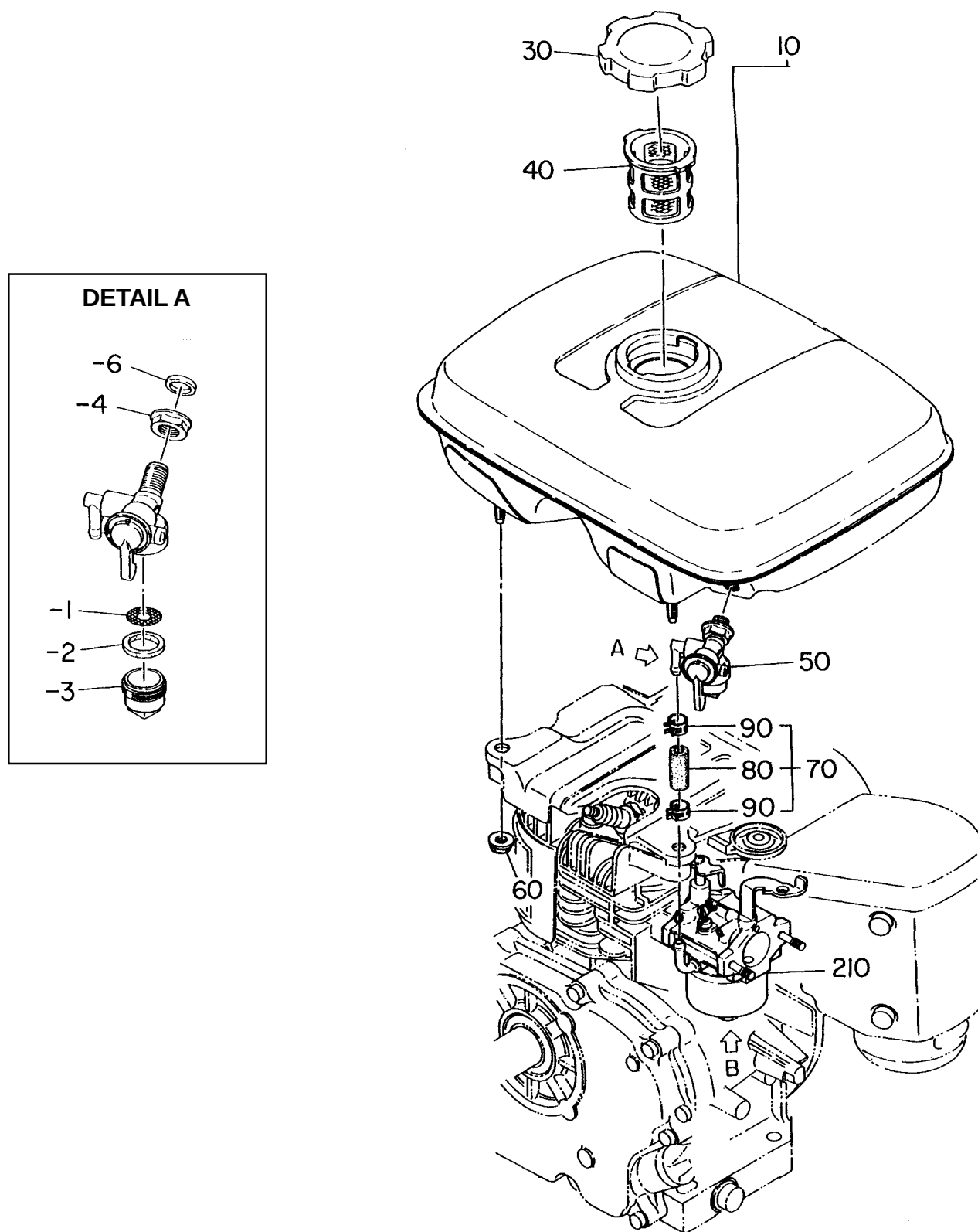


SECTION 5

COOLING and STARTING GROUP

[illegible]

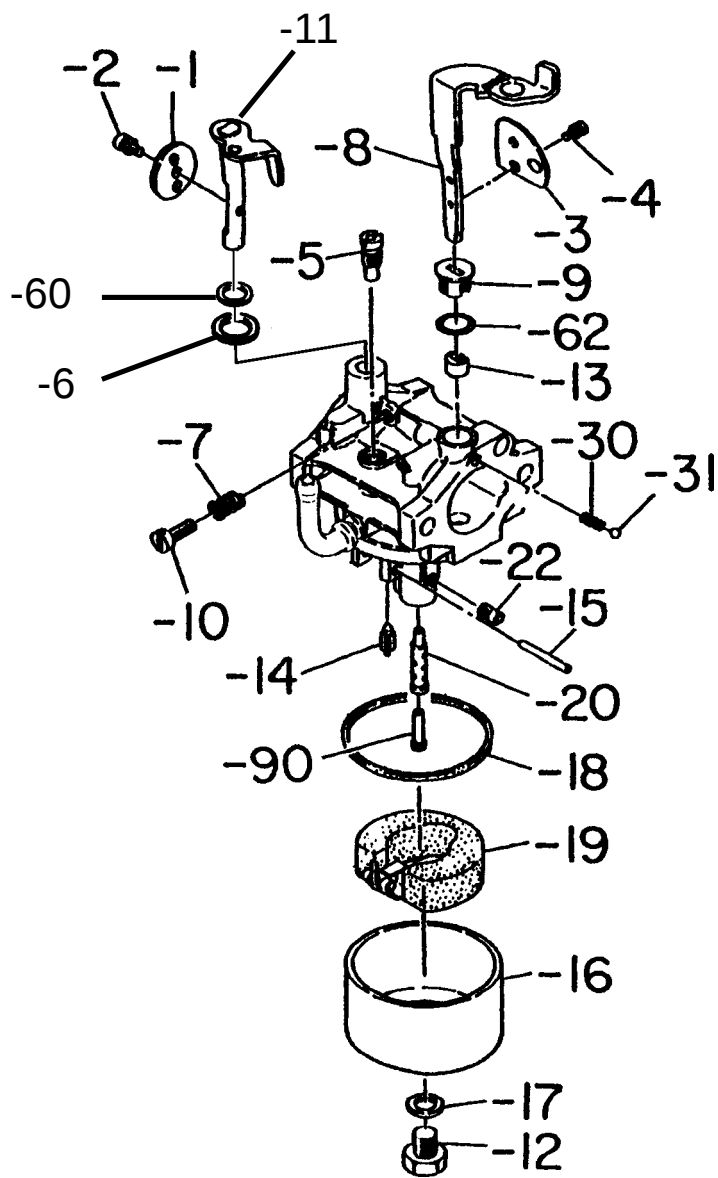
FIG. 600



FUEL, LUBRICANT GROUP

[illegible]

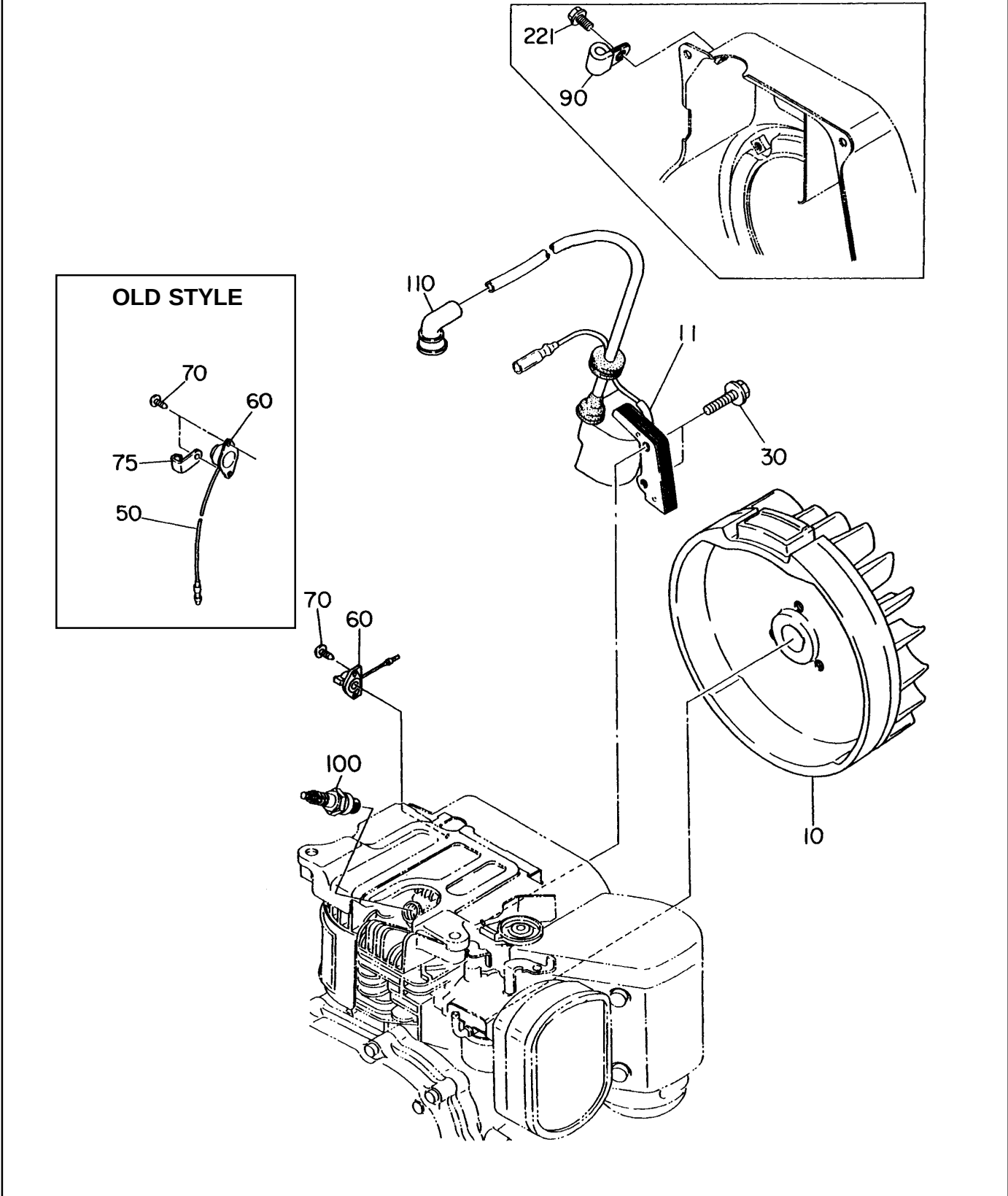
FIG. 610



FUEL, LUBRIACTION GROUP

[illegible]

FIG. 700



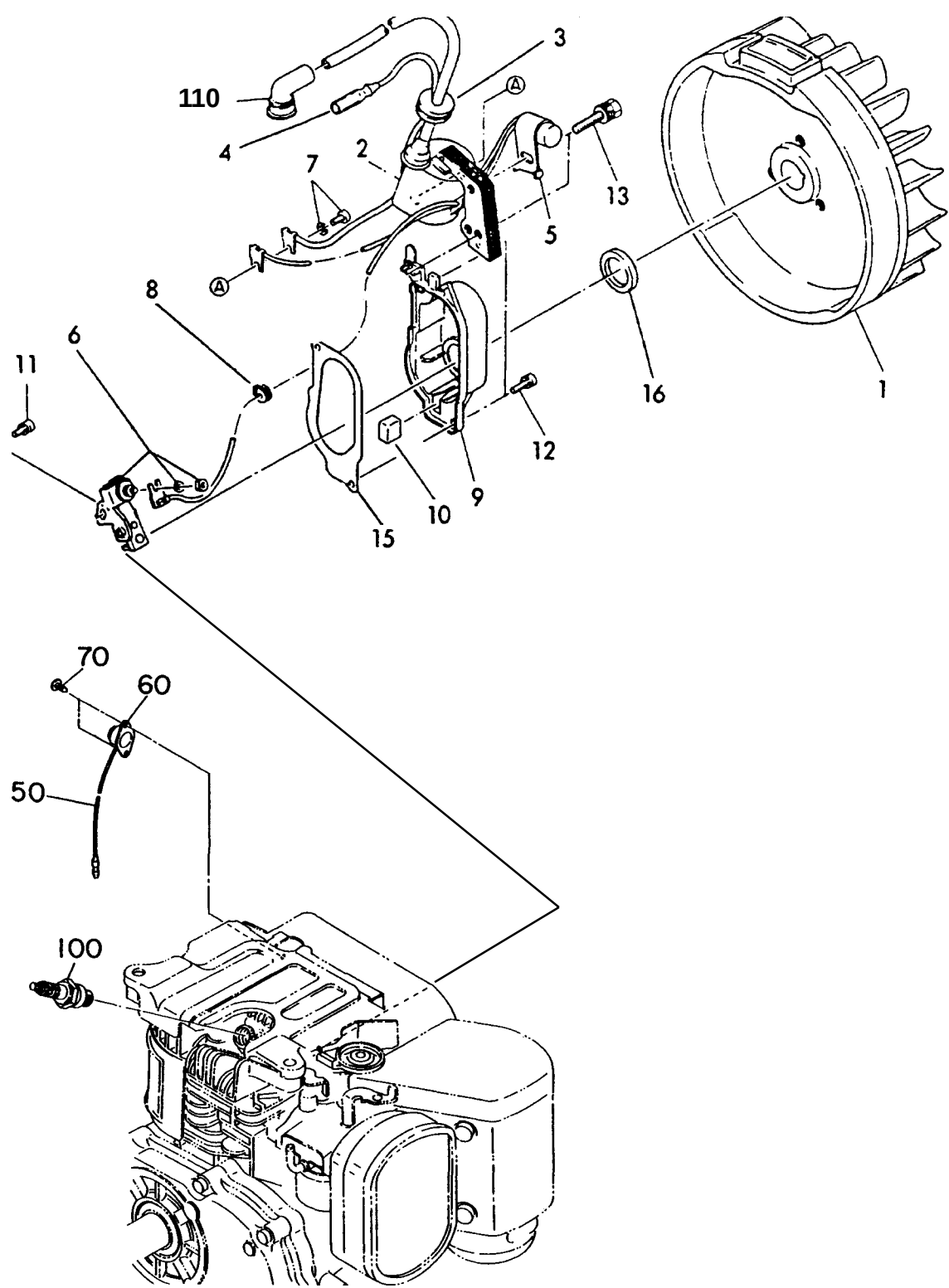
SECTION 7

ELECTRIC DEVICE GROUP

[illegible]

FIG. 710

POINTS and CONDENSER - OLD STYLE

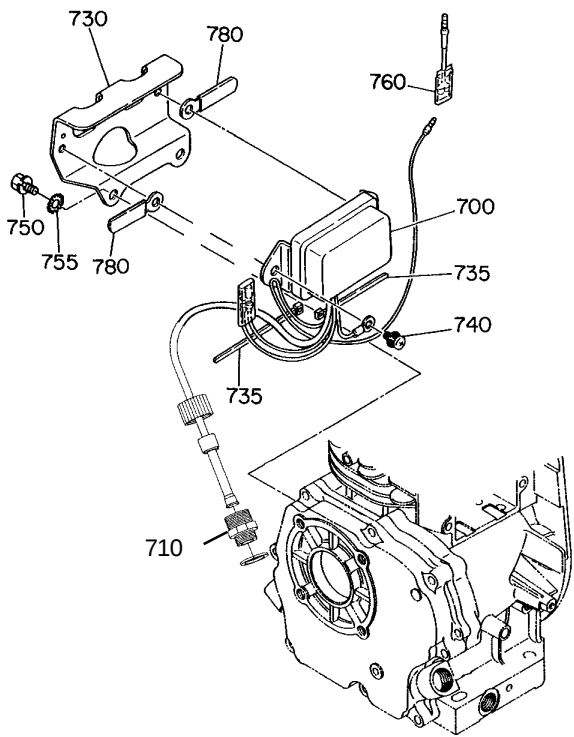
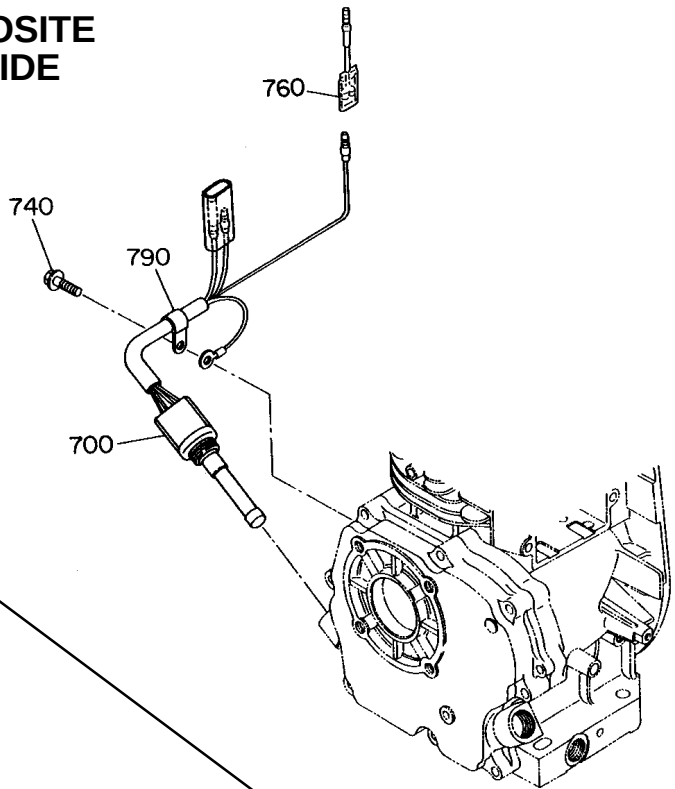


SECTION 7 ELECTRIC DEVICE GROUP

[illegible]

FIG. 730

**NEW STYLE - OPPOSITE
CARBURETOR SIDE**



**OLD STYLE - OPPOSITE
CARBURETOR SIDE**

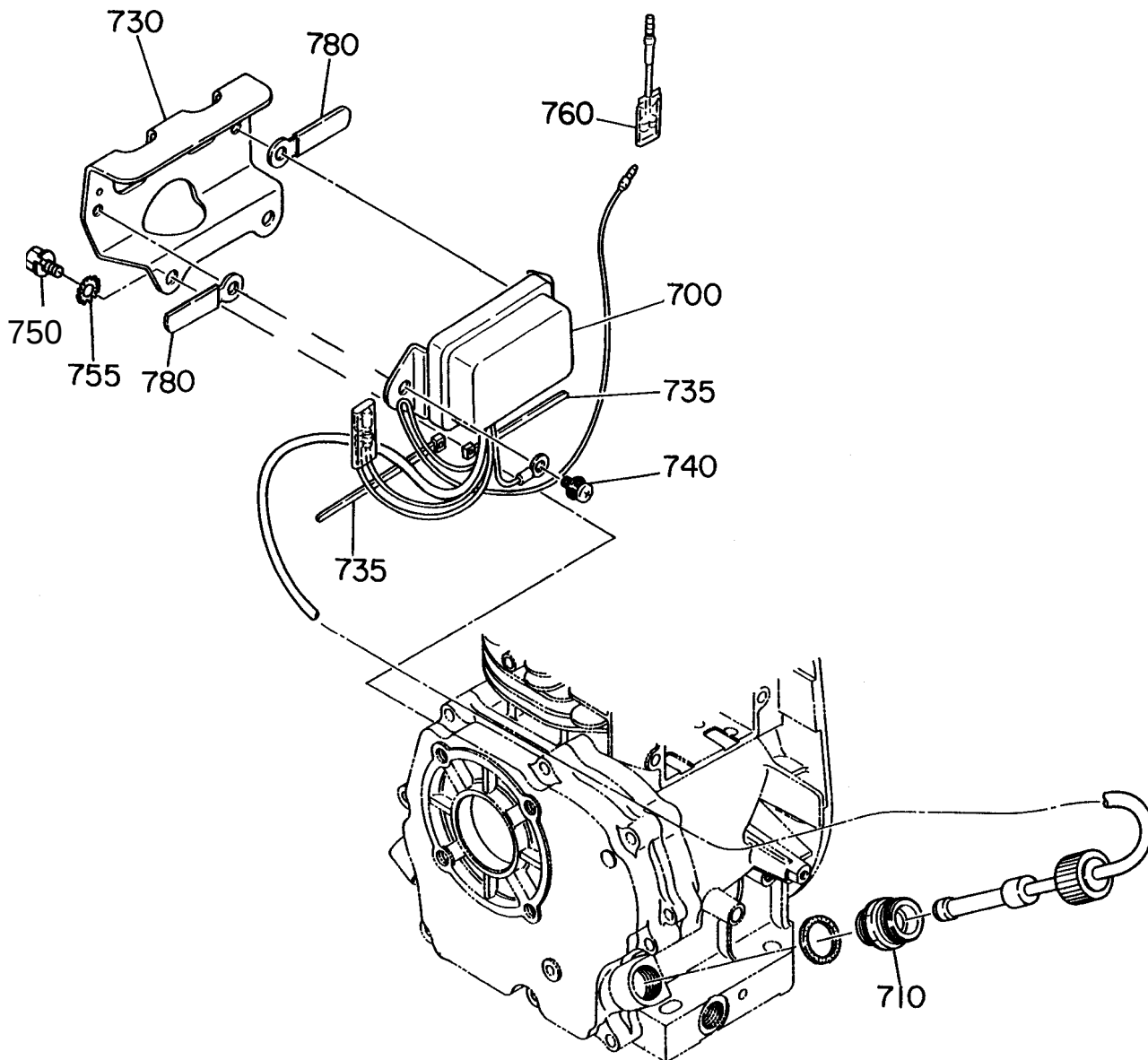
SECTION 7

ELECTRIC DEVICE GROUP - OIL SENSOR

[illegible]

FIG. 740

OLD STYLE - CARBURETOR SIDE

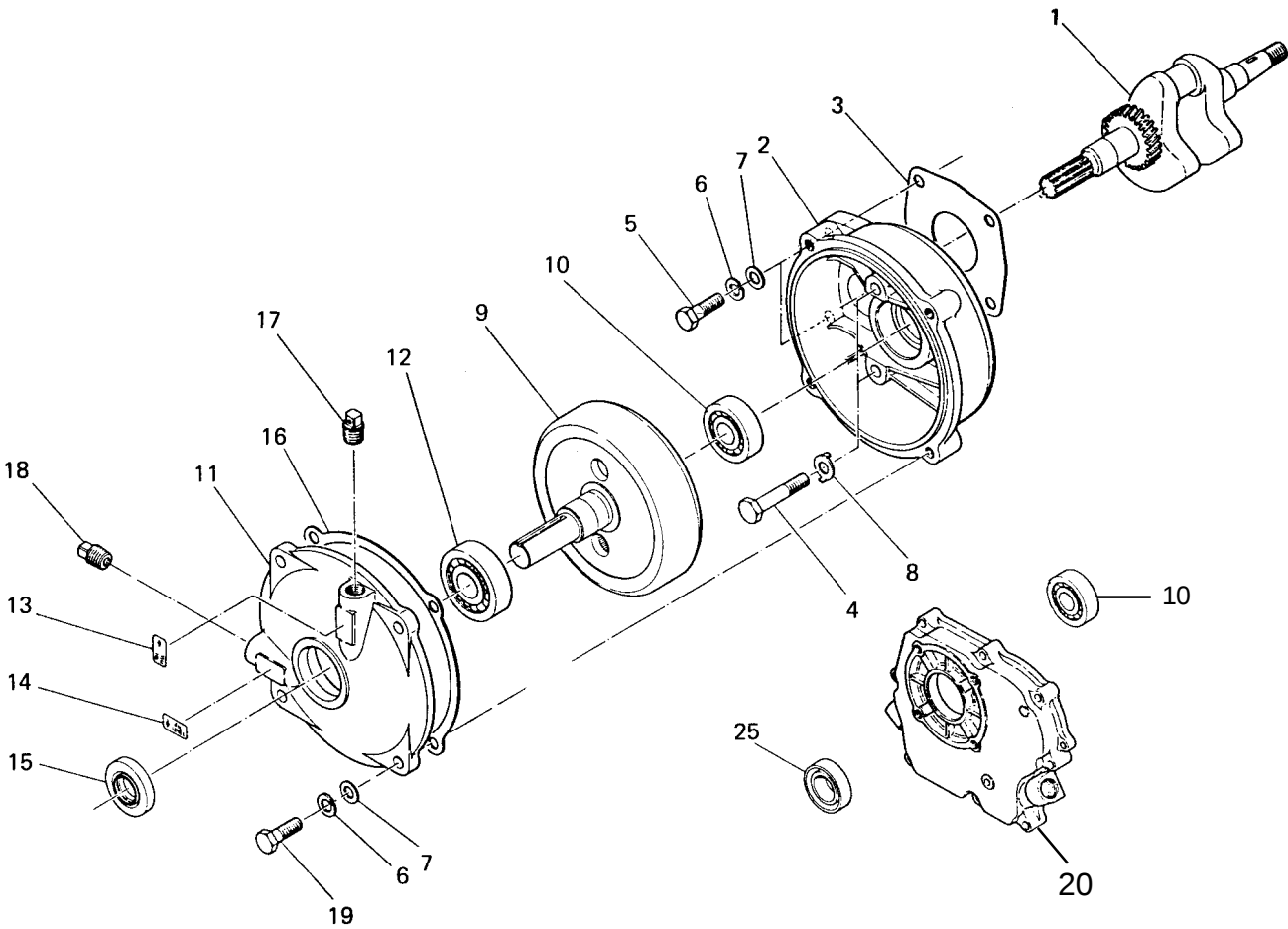


SECTION 7

ELECTRIC DEVICE GROUP - OIL SENSOR

[illegible]

FIG. 800



6:1 REDUCTION

[illegible]

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