

PARTS MANUAL

Models

**EY35 / EY40
ENGINES**

PUB-EP5716A
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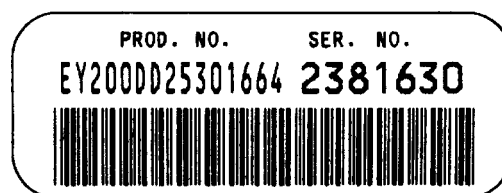
HOW TO USE THIS MANUAL

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.

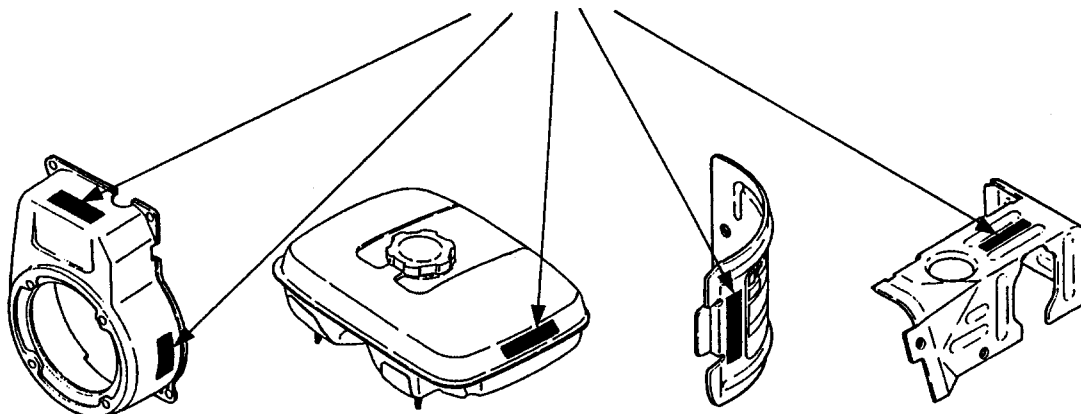
In order to identify the correct service part number, it is important to confirm the specification and code numbers for your engine. The specification and code number together are known as the PRODUCT NUMBER.

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

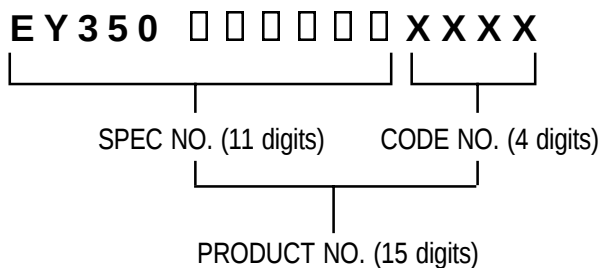
PRODUCT NUMBER LABEL



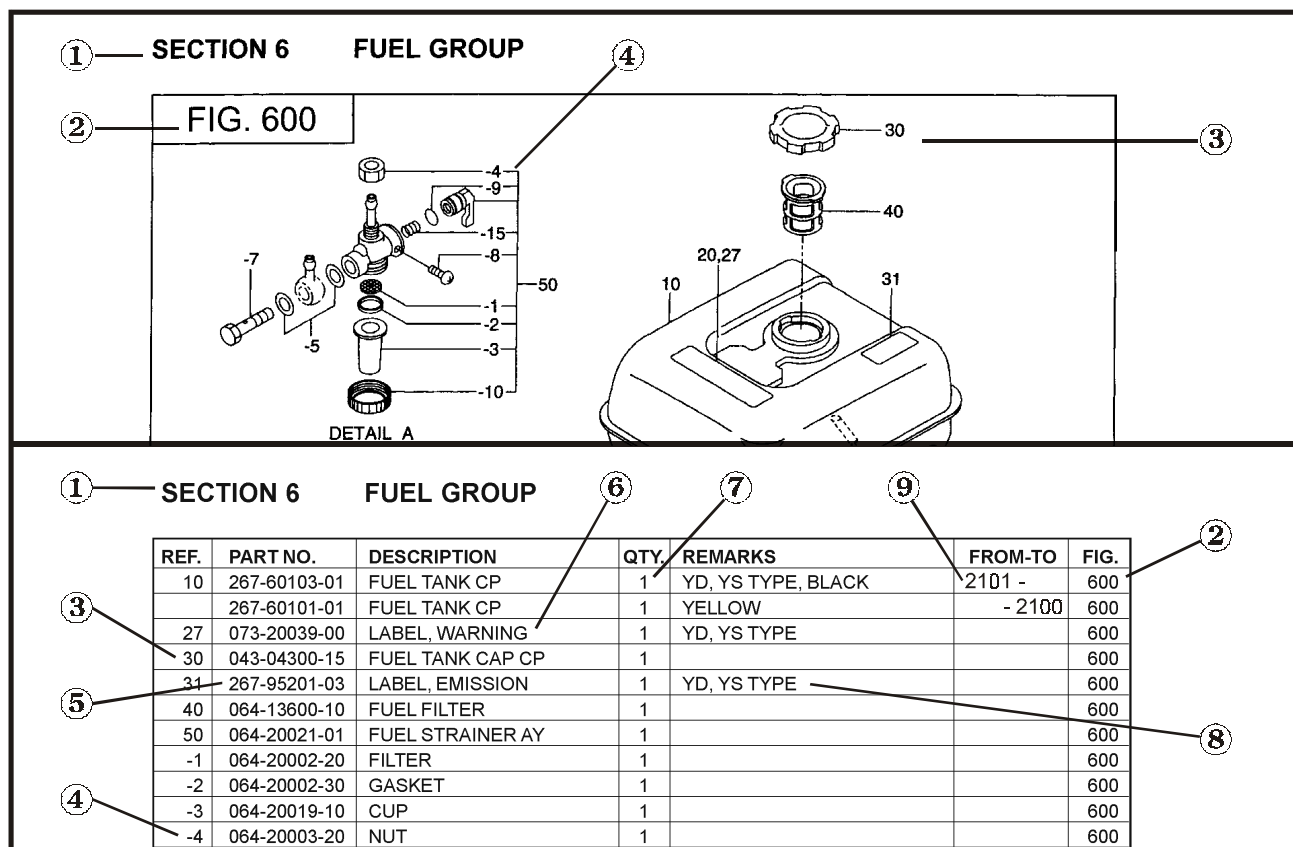
PRODUCT NUMBER LABEL LOCATIONS



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.

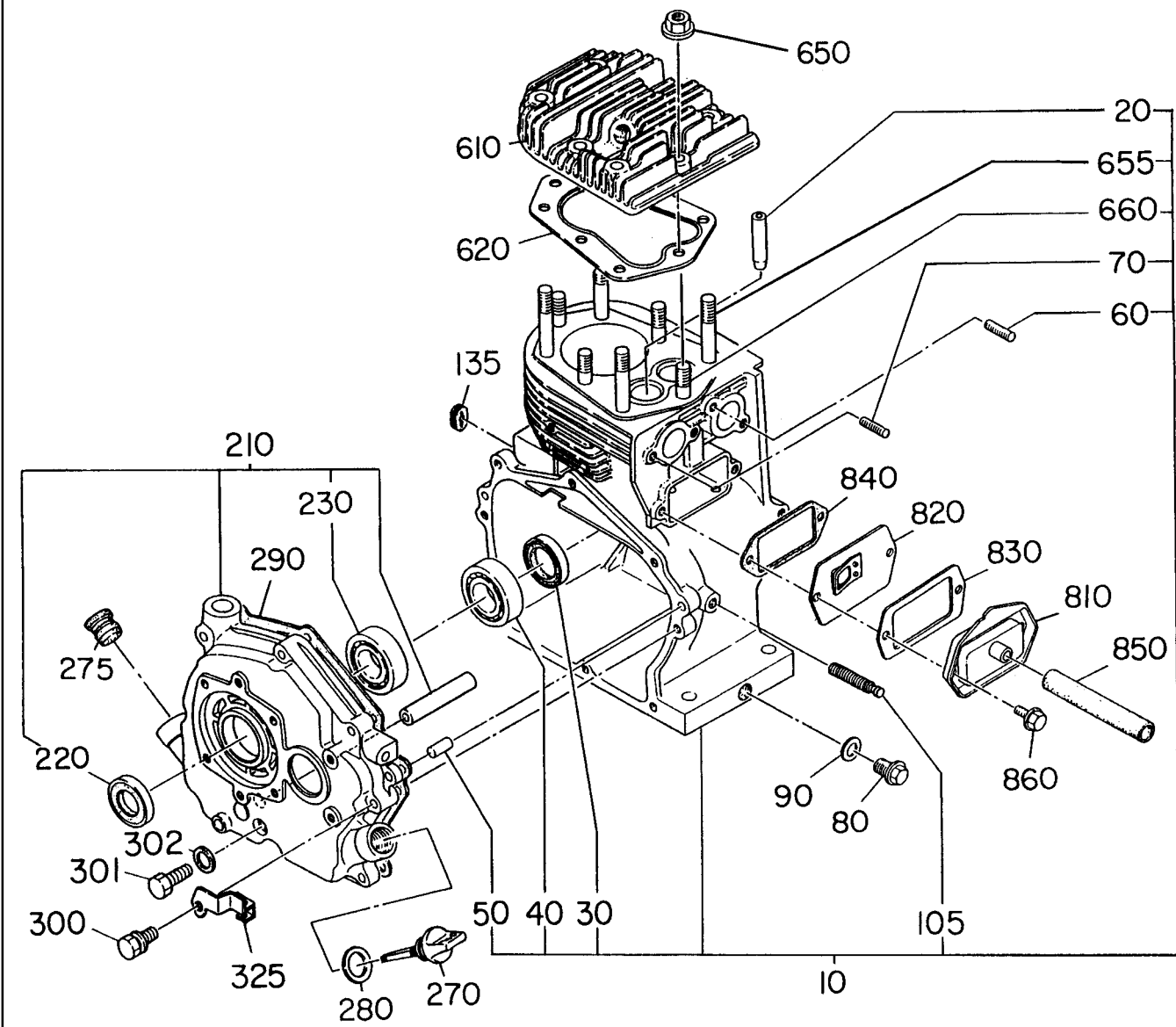
GROUP INDEX

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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

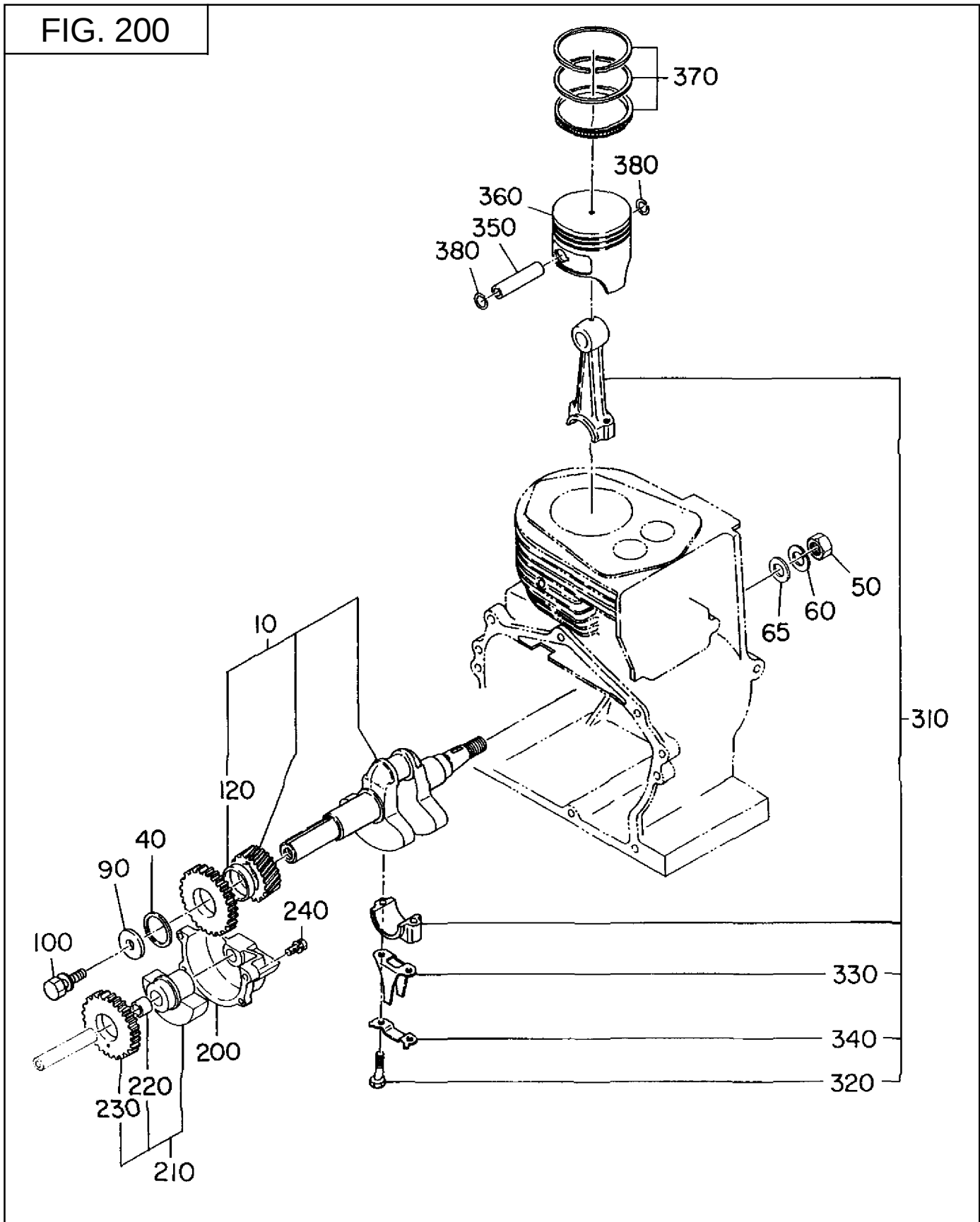


SECTION 1 CRANKCASE GROUP

[illegible]

SECTION 2 CRANKSHAFT GROUP

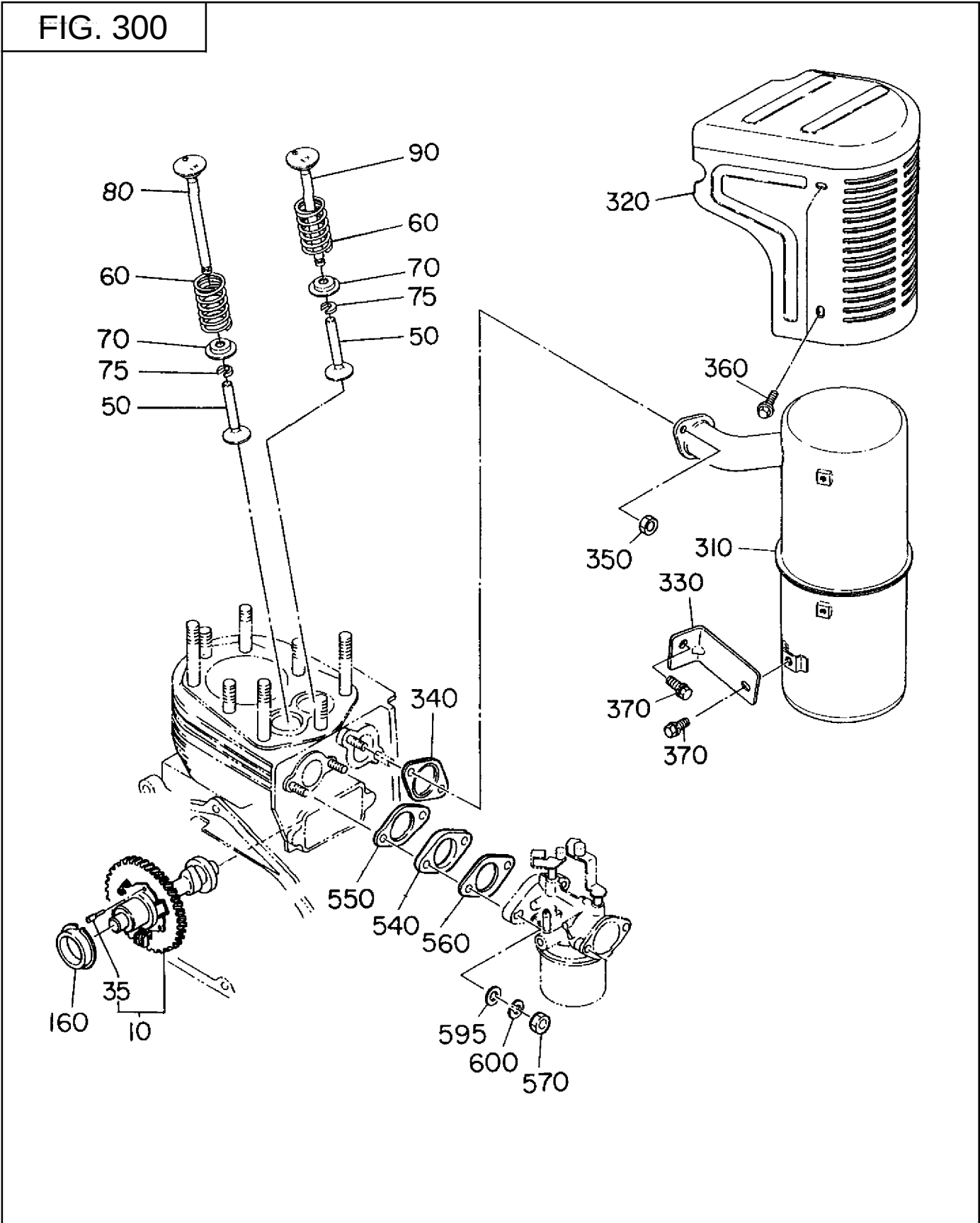
FIG. 200



SECTION 2 CRANKSHAFT GROUP

REF.	PART NO.	DESCRIPTION	QTY.	REMARKS	FROM-TO	FIG.
10	223-20302-11	CRANKSHAFT, CP	1	EY35, SAE 1 in. Keyway		200
	224-20302-11	CRANKSHAFT, CP	1	EY40, SAE 1 in. Keyway		200
	223-20601-11	CRANKSHAFT, CP	1	EY35, SAE PUMP		200
	224-20503-11	CRANKSHAFT, CP	1	EY40, SAE PUMP		200
	223-20401-11	CRANKSHAFT, CP	1	EY35, SAE TAPER		200
	224-20402-11	CRANKSHAFT, CP	1	EY40, SAE TAPER		200
	223-20201-11	CRANKSHAFT, CP	1	EY35, METRIC KEY 25mm		200
	224-20201-11	CRANKSHAFT, CP	1	EY40, METRIC KEY 30mm		200
	223-20701-11	CRANKSHAFT, CP	1	EY35, METRIC TAPER		200
	224-20701-11	CRANKSHAFT, CP	1	EY40, METRIC TAPER		200
40	023-03500-10	SPACER, T=1.05	1	select one piece only		200
	023-03500-60	SPACER, T= 1.20	1	select one piece only		200
	023-03500-70	SPACER, T=1.35	1	select one piece only		200
50	002-18180-00	NUT	1			200
60	003-20180-00	SPRING WASHER	1			200
65	003-10180-00	WASHER	1			200
70	005-32044-01	WOODRUFF KEY	1			200
120	224-25104-13	SPACER	1			200
200	224-14502-03	BALANCER HOLDER	1			200
210	224-24301-01	BALANCER, CP	1			200
220	061-01500-10	NEEDLE BEARING	2			200
230	224-24201-03	BALANCER GEAR 1	1			200
240	001-13083-00	BOLT and WASHER AY	4			200
310	224-22501-10	CONNECTING ROD AY	1			200
320	217-23001-13	CONNECTING ROD BOLT	2			200
330	224-23102-03	OIL SCRAPER	1			200
340	224-23201-13	ROD LOCK WASHER	1			200
350	223-23301-03	PISTON PIN	1	EY35		200
	224-23301-03	PISTON PIN	1	EY40		200
360	223-23401-13	PISTON	1	EY35, STD		200
	223-23402-13	PISTON	1	EY35, oversize 0.25mm		200
	223-23403-13	PISTON	1	EY35, oversize 0.50mm		200
360	224-23401-23	PISTON	1	EY40, STD		200
	224-23402-23	PISTON	1	EY40, oversize 0.25mm		200
	224-23403-23	PISTON	1	EY40, oversize 0.50mm		200
370	223-23501-17	PISTON RING SET	1	EY35, STD		200
	223-23502-17	PISTON RING SET	1	EY35, oversize 0.25mm		200
	223-23503-17	PISTON RING SET	1	EY35, oversize 0.50mm		200
370	224-23501-17	PISTON RING SET	1	EY40, STD		200
	224-23502-17	PISTON RING SET	1	EY40, oversize 0.25mm		200
	224-23503-17	PISTON RING SET	1	EY40, oversize 0.50mm		200
380	056-52200-11	CLIP	2			200

FIG. 300



SECTION 3

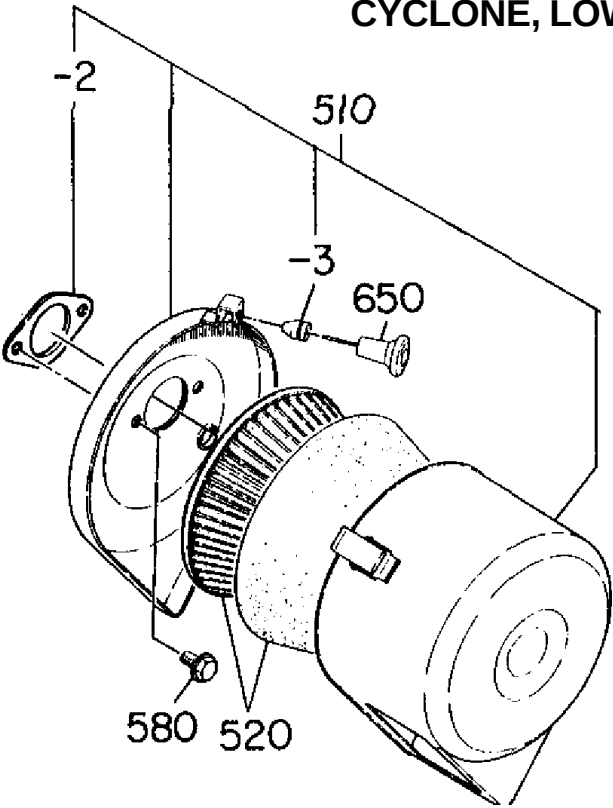
INTAKE and EXHAUST GROUP

[illegible]

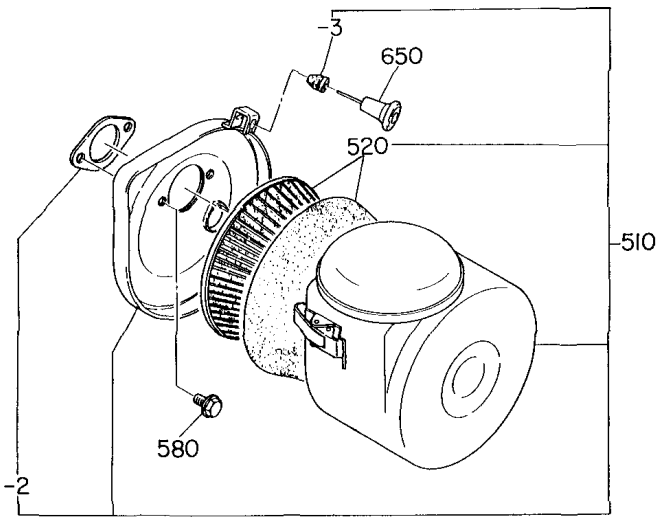
SECTION 3 INTAKE and EXHAUST GROUP

FIG. 310

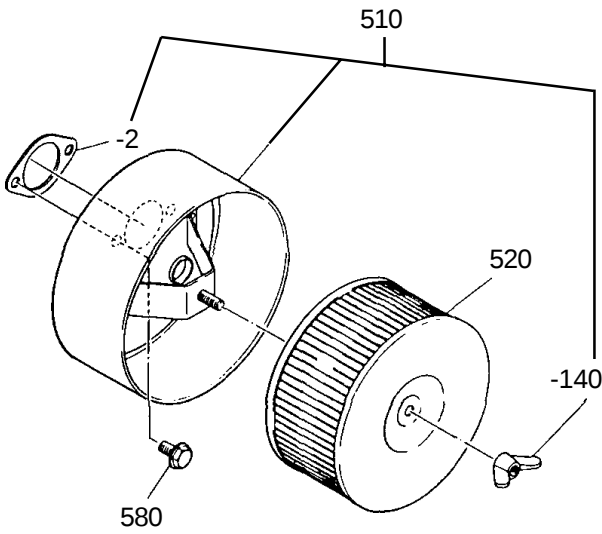
CYCLONE, LOWER INLET



CYCLONE, TOP INLET



SINGLE STAGE

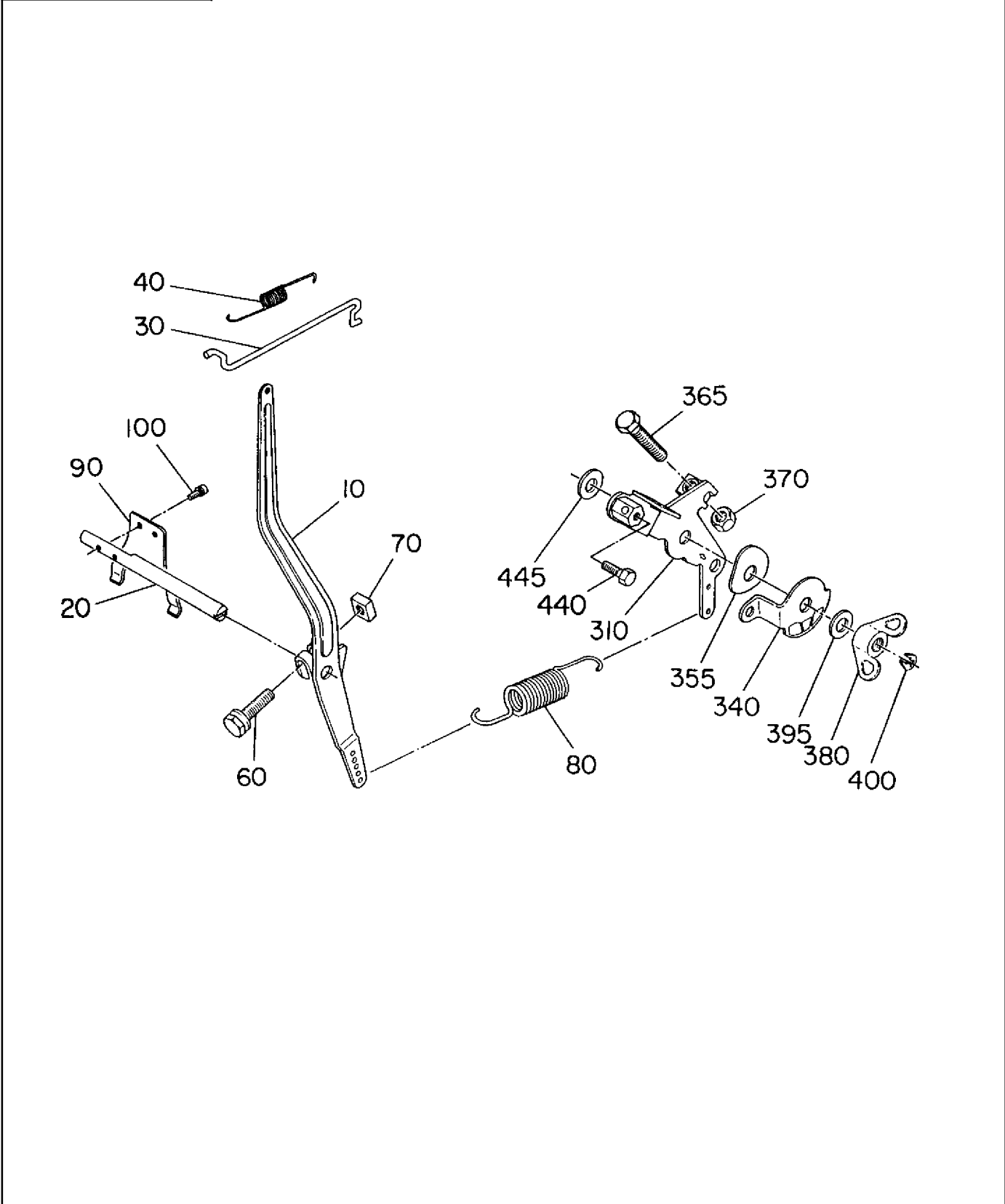


SECTION 3

INTAKE and EXHAUST GROUP

[illegible]

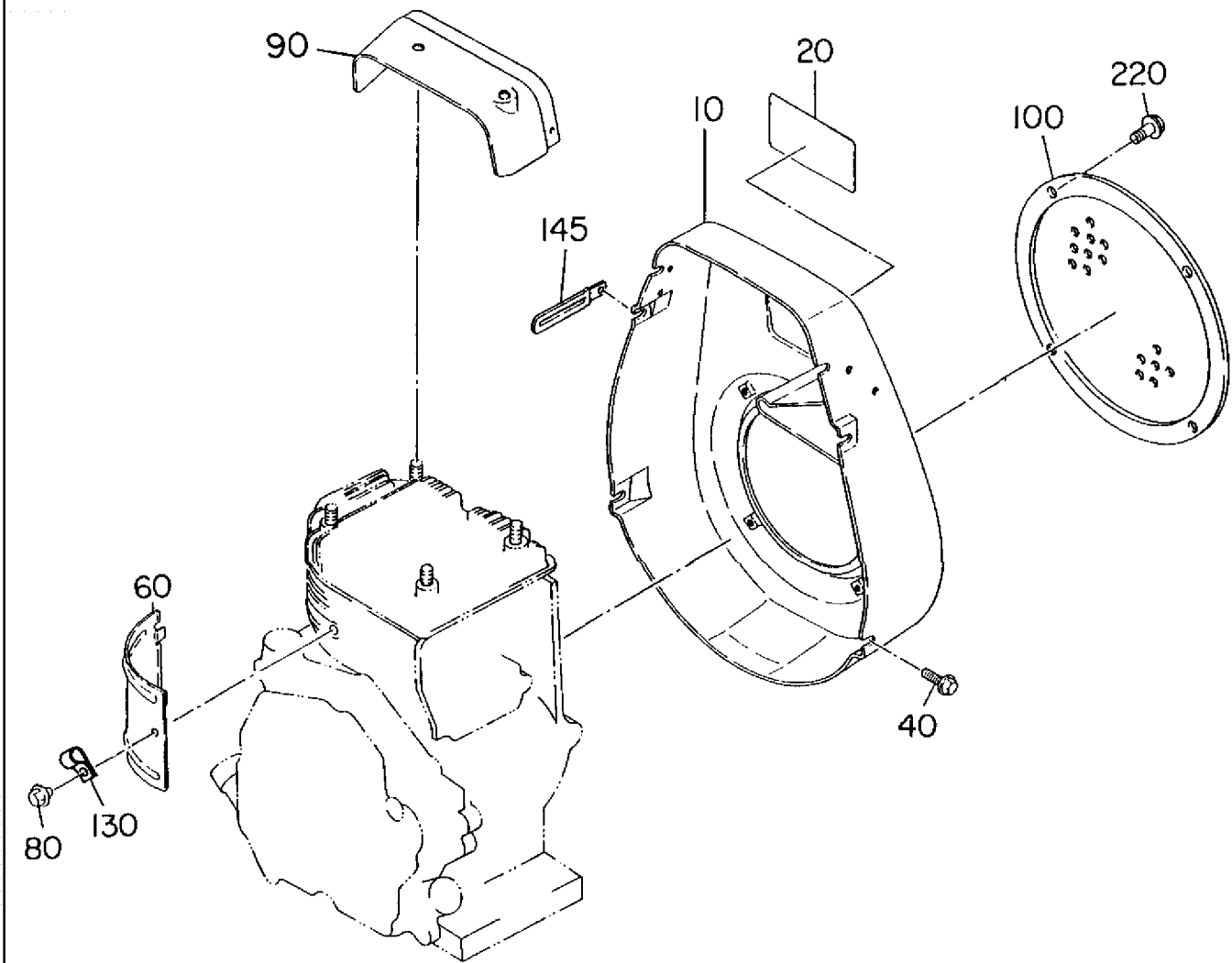
FIG. 400



SECTION 4 GOVERNOR GROUP

[illegible]

FIG. 500

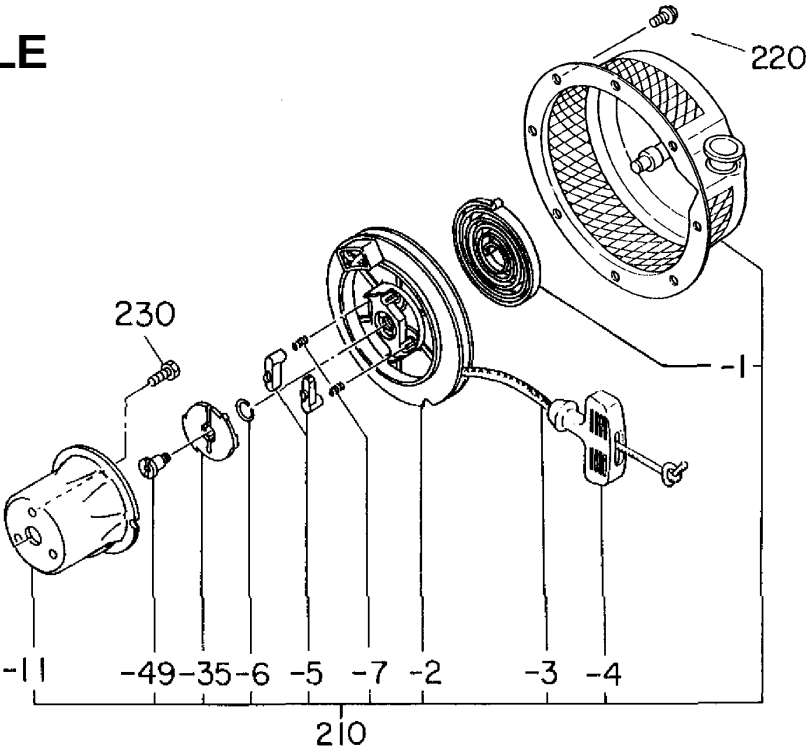


SECTION 5 COOLING and STARTING GROUP

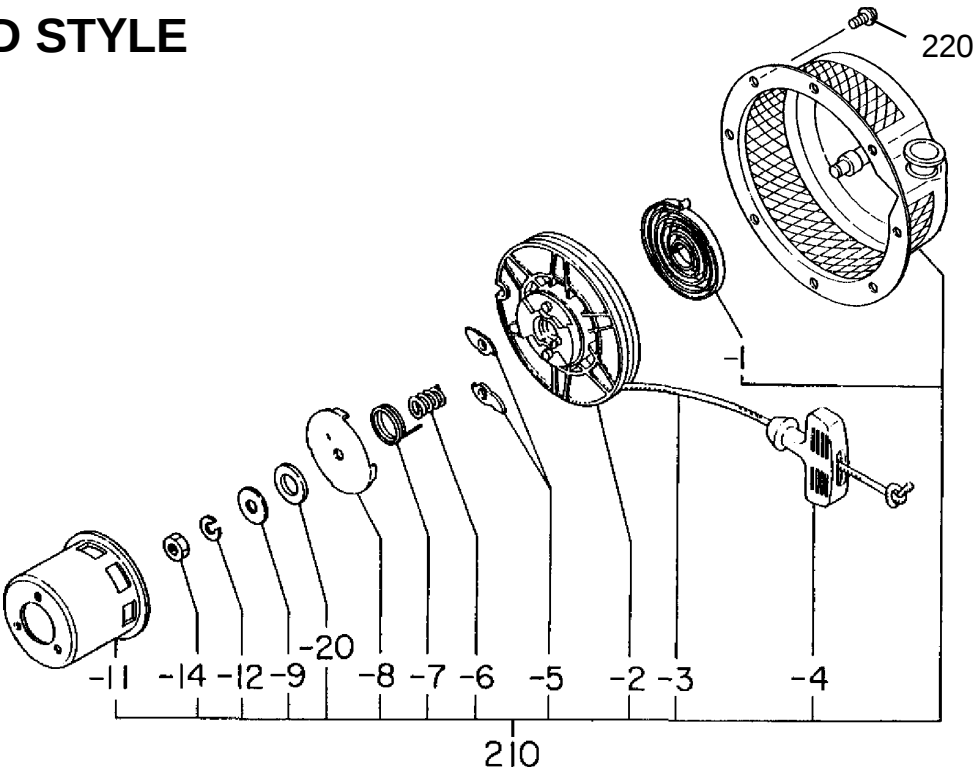
[illegible]

FIG. 510

NEW STYLE



OLD STYLE

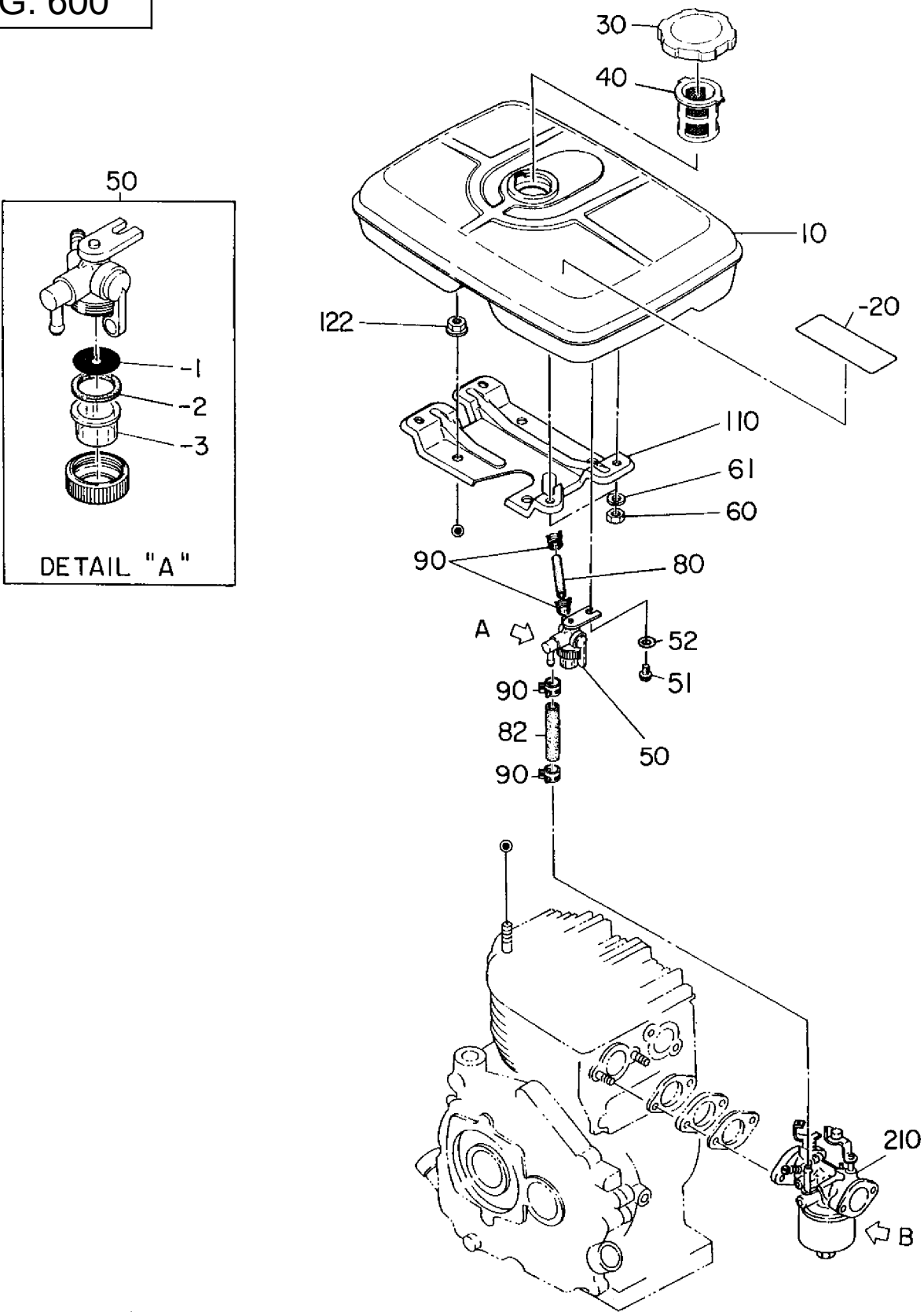


SECTION 5

COOLING and STARTING GROUP

[illegible]

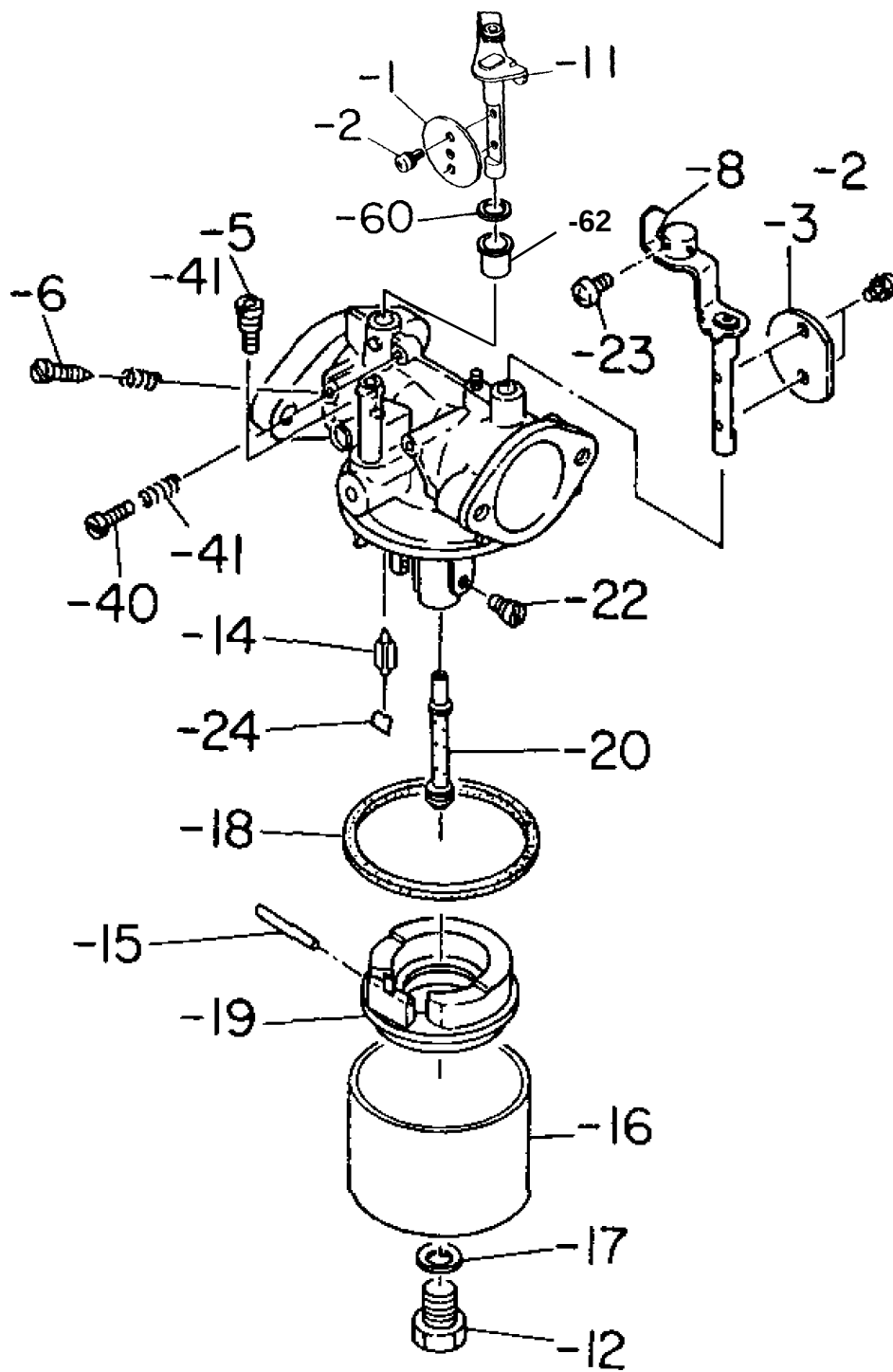
FIG. 600



SECTION 6 FUEL, LUBRICANT GROUP

[illegible]

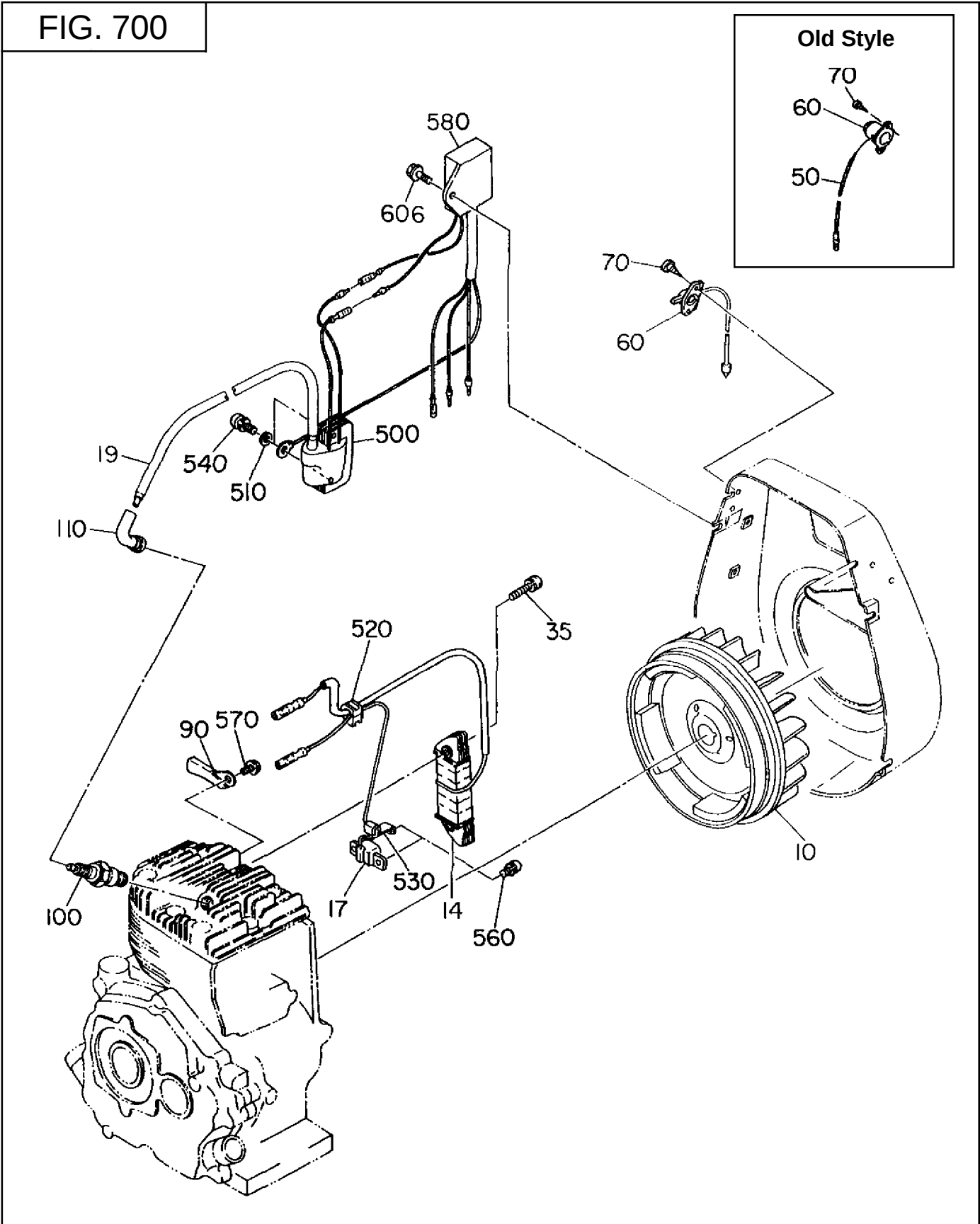
FIG. 610



FUEL, LUBRICANT GROUP

'00-04

FIG. 700

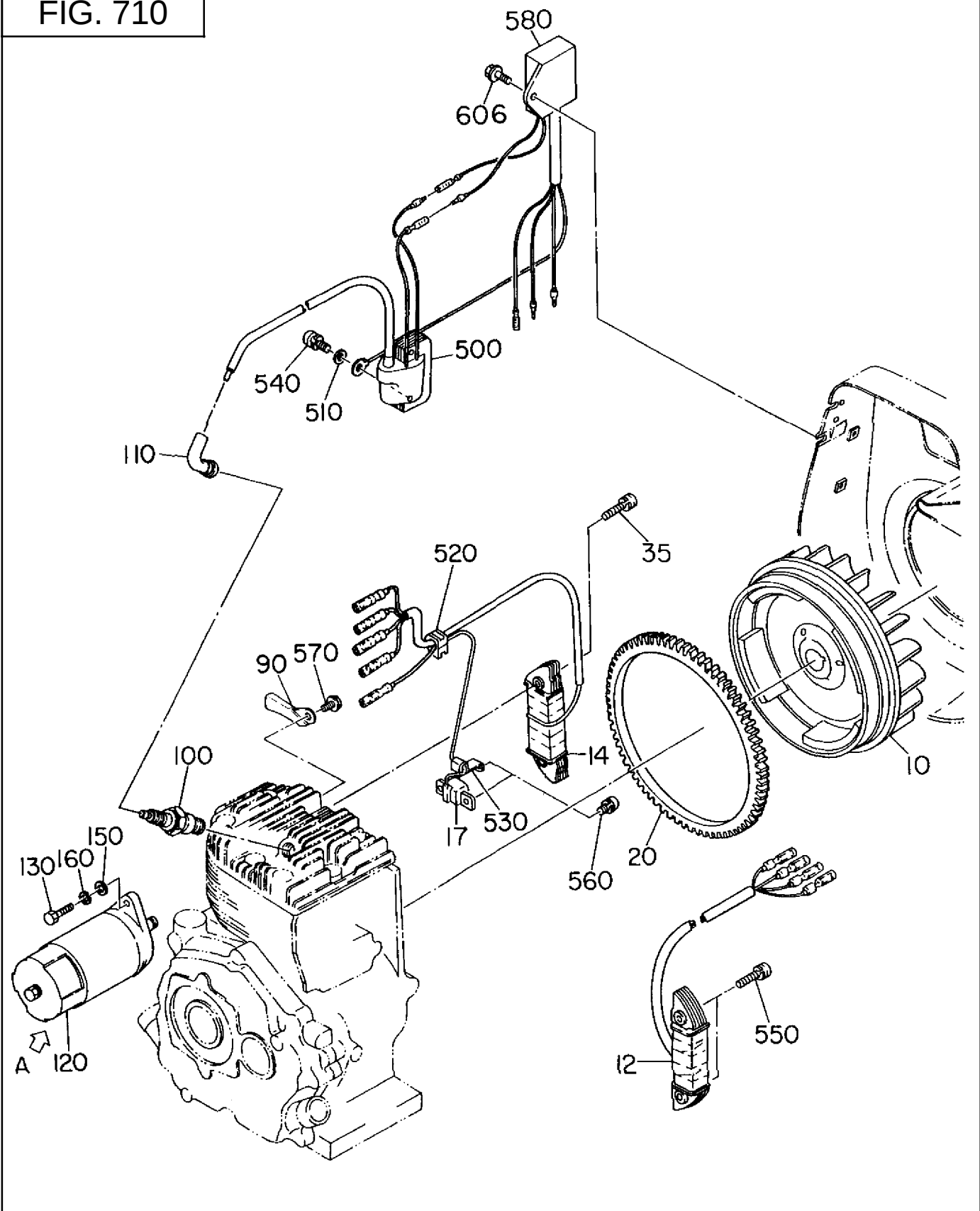


SECTION 7

ELECTRIC DEVICE GROUP - RECOIL START

[illegible]

FIG. 710



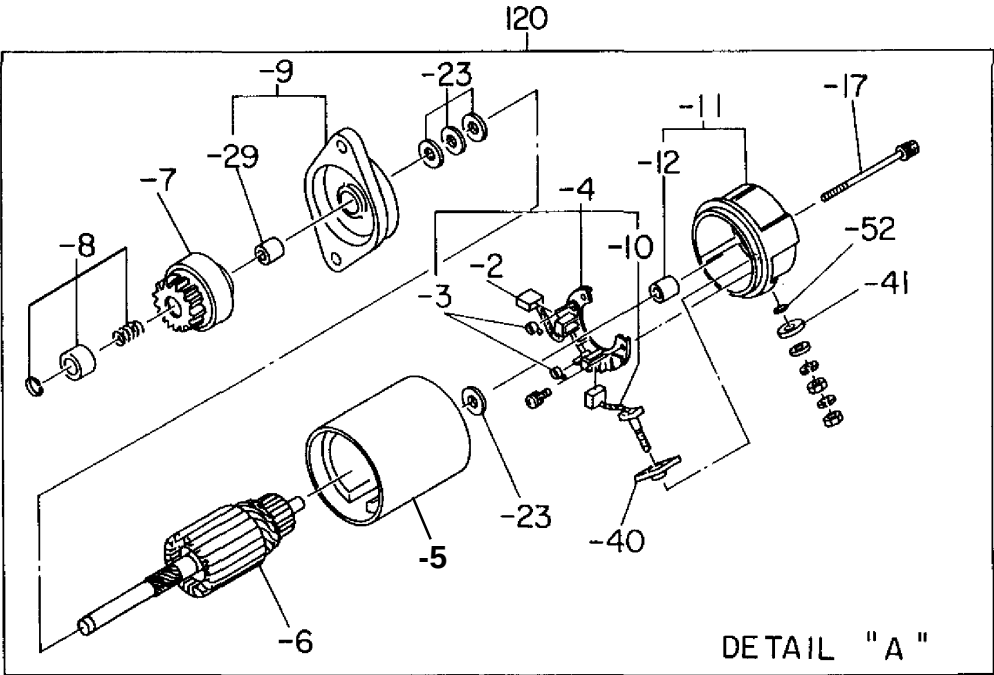
SECTION 7

ELECTRIC DEVICE GROUP - ELECTRIC START

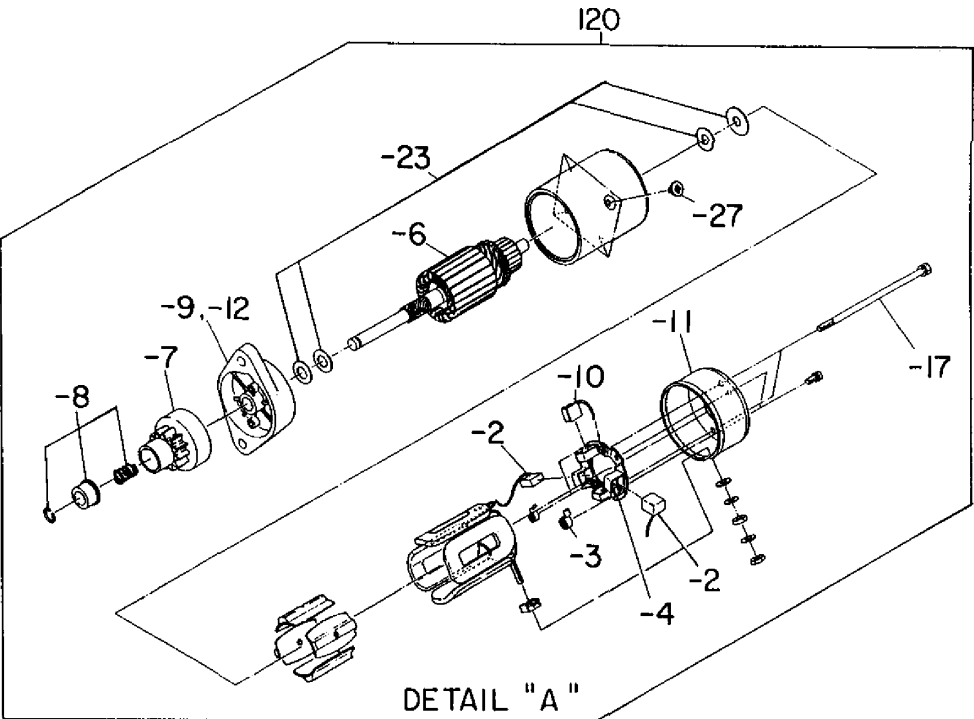
[illegible]

FIG. 720

NEW STYLE



OLD STYLE



SECTION 7

ELECTRIC DEVICE GROUP - ELECTRIC STARTER

[illegible]

FIG. 730

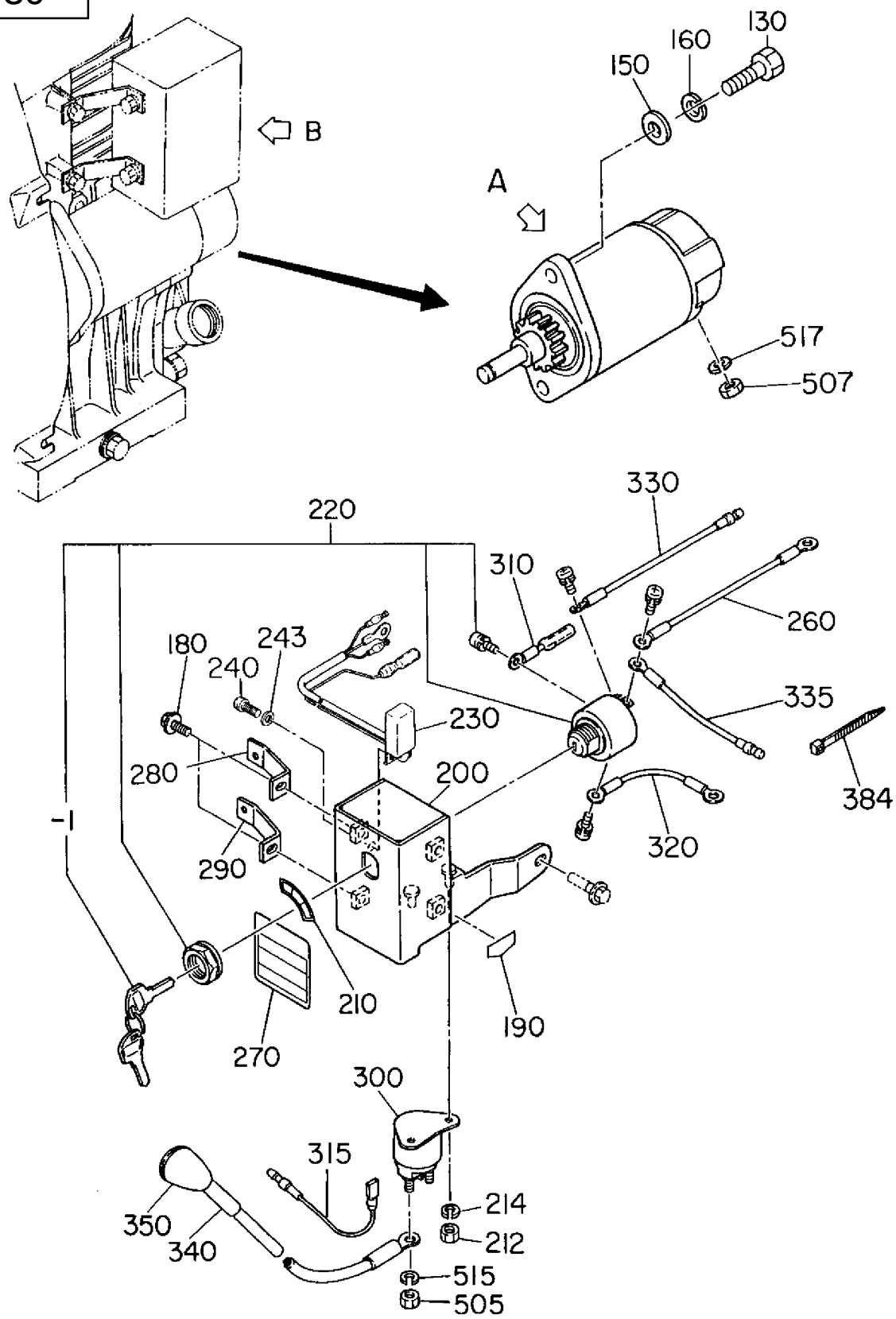
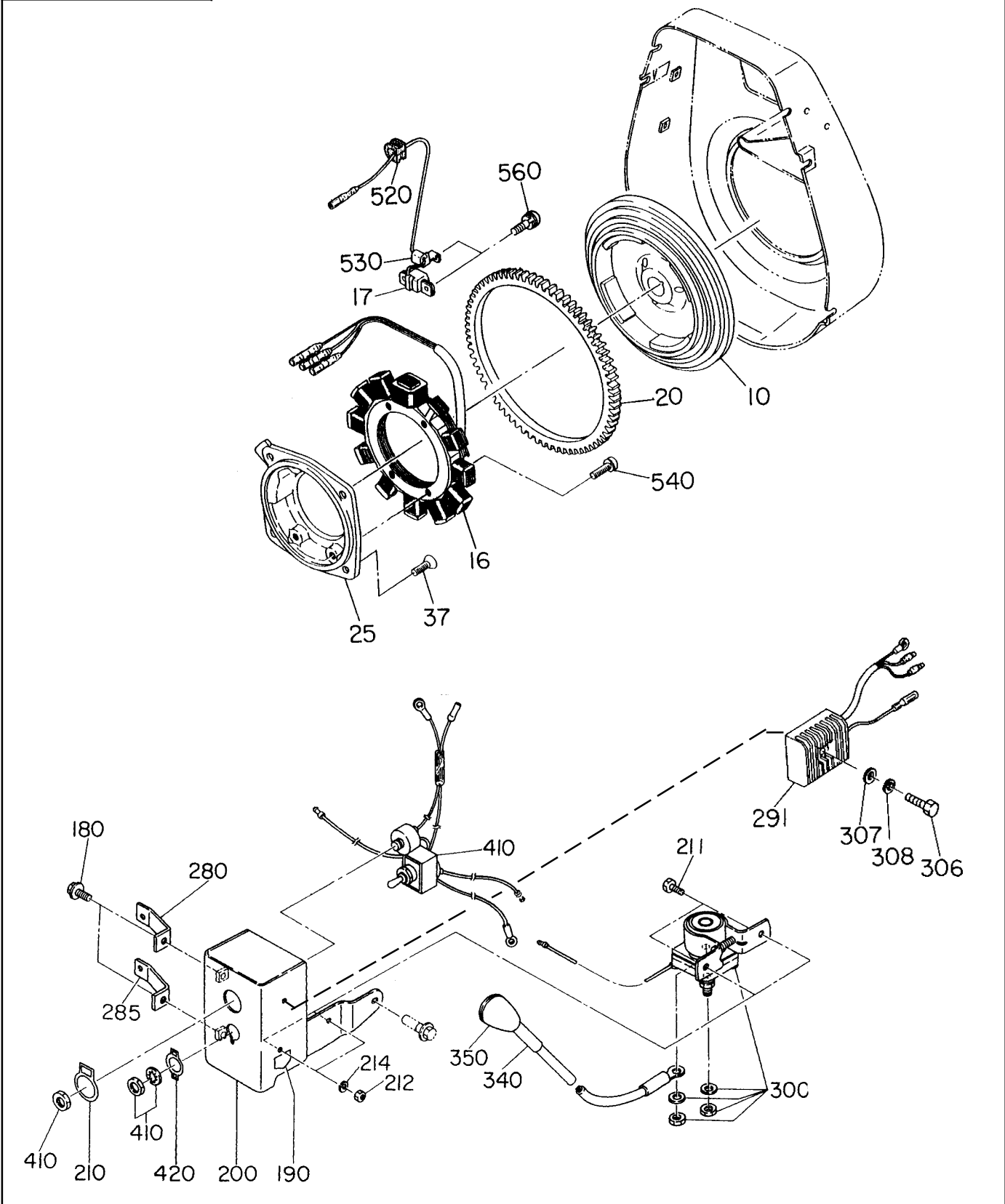


FIG. 740



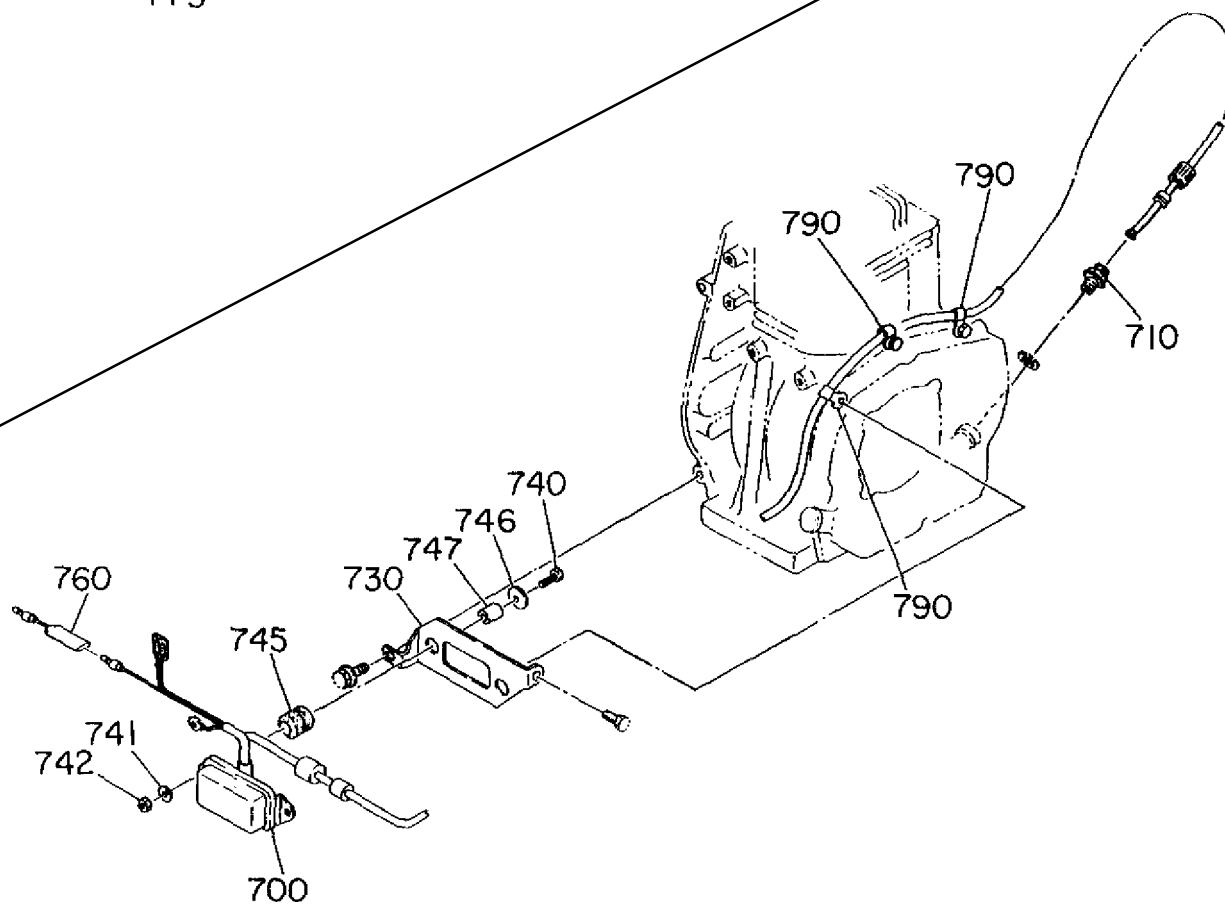
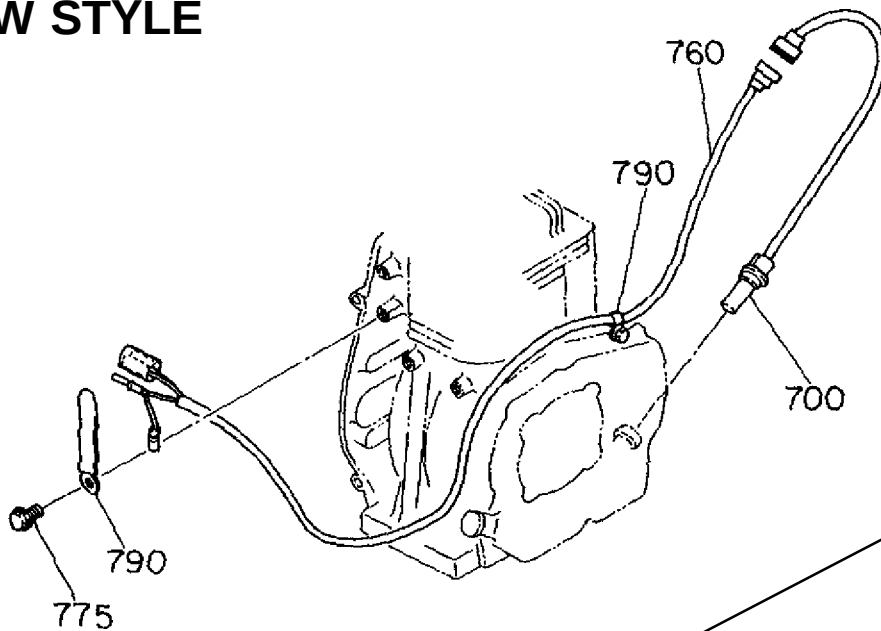
SECTION 7

ELECTRIC START - 150 WATT CHARGING

[illegible]

FIG. 750

NEW STYLE



OLD STYLE

SECTION 7 OIL SENSOR

[illegible]

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