

Robin Industrial Engines®

PARTS MANUAL

Model

DY27-2

1193P229



ROBIN AMERICA, INC.
ROBIN TO WISCONSIN ROBIN
ENGINE MODEL CROSS REFERENCE LIST

ROBIN

WISCONSIN ROBIN

SIDE VALVE

EY08	W1-080
EY15	W1-145
EY15V	W1-145V
EY20	W1-185
EY20V	W1-185V
EY23	W1-230
EY28	W1-280
EY35	W1-340
EY40	W1-390
EY45V	W1-450V
EY21	EY21W
EY44	EY44W
EY18-3	EY18-3W
EY25	EY25W
EY27	EY27W

OVERHEAD VALVE

EH11	WO1-115
EH12	WO1-120
EH15	WO1-150
EH17	WO1-170
EH21	WO1-210
EH25	WO1-250
EH30	WO1-300
EH30V	WO1-300V
EH34	WO1-340
EH34V	WO1-340V
EH43V	WO1-430V

TWO CYCLE

EC13V	WT1-125V
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DIESEL

DY23	WRD1-230
DY27	WRD1-270
DY30	WRD1-300
DY35	WRD1-350
DY41	WRD1-410

HOW TO USE THIS PARTS CATALOG

All Robin Industrial Engines have a Production number to identify their specification. The Production number is a 15 digit, alphanumeric number. The first 11 digits are classified as the specification number of the engine. The last 4 digits are the manufacturing code. An example is shown below:

(PRODUCTION NUMBER)	
<u>EY400DD1650</u>	<u>XXXX</u>
(SPECIFICATION #)	(CODE)

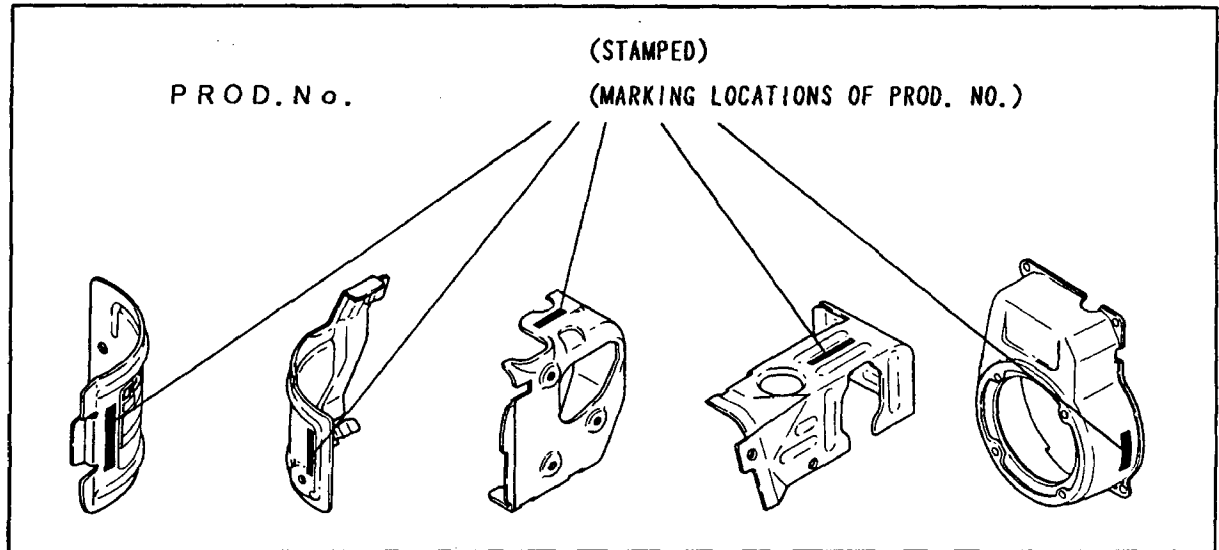
All 15 digit production numbers will be located in one of the following locations depending upon the engine model. The number will either be stamped onto a cylinder baffle or attached to one of the other locations by an easily visible label.

MARKING LOCATIONS OF PRODUCTION NUMBER

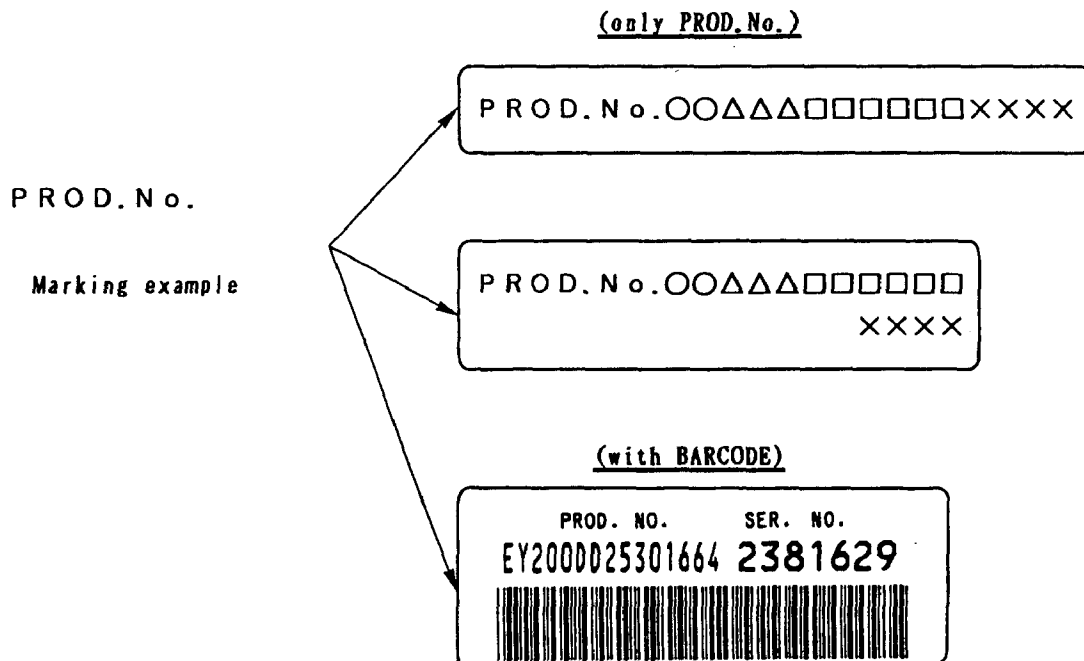
PROD.No.

How to check PROD. No.

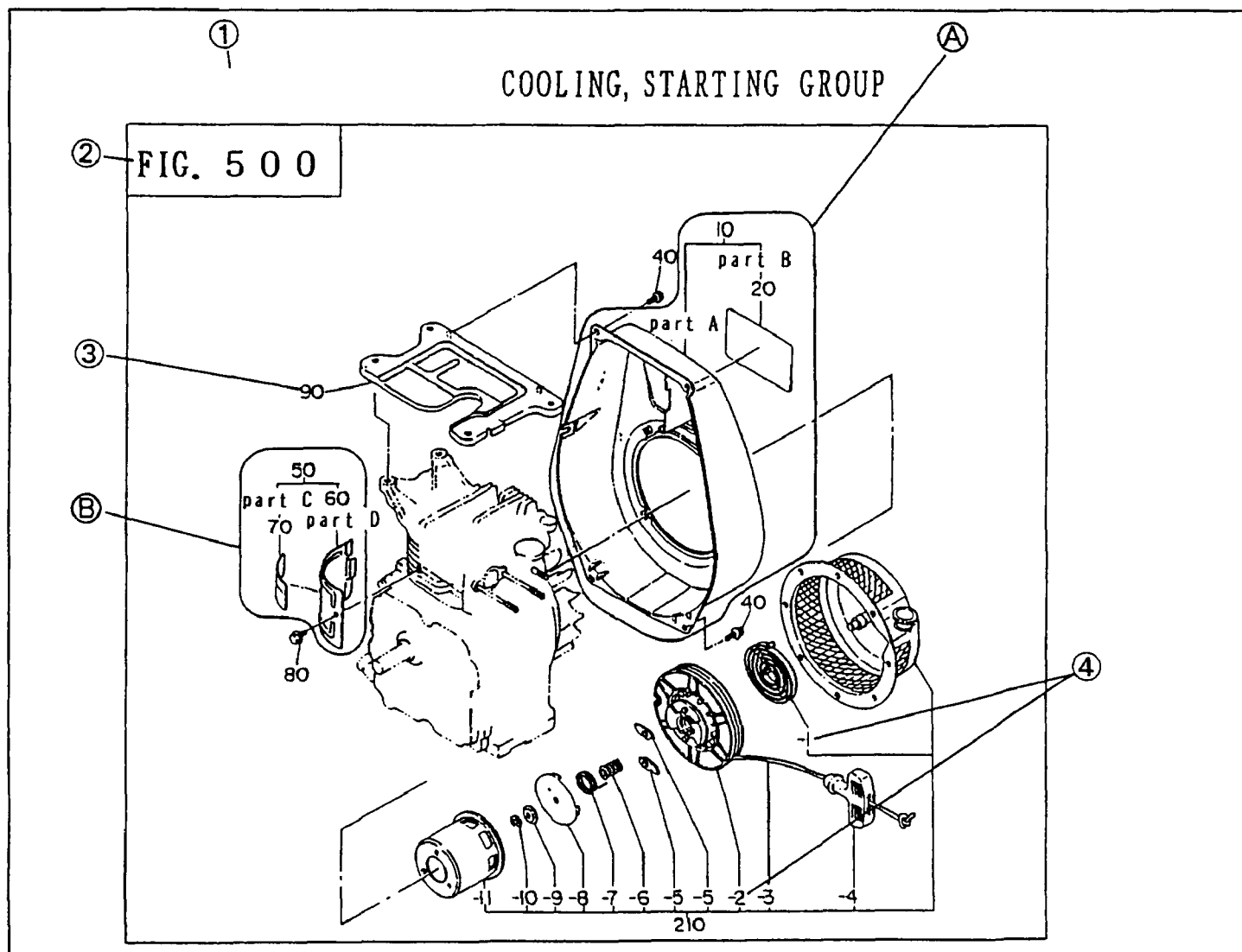
Check PROD. No. as illustrated below.



PROD.No. with 15 characters is marked either by stamping on the cylinder buffle or by sticking label to easily visible locations such as on the blower housing.



How to find the part of your need



NOTE: Some of the parts shown may be somewhat different from their actual shape and location. The illustrations of this catalog are intended to assist in ordering the correct part(s).

[TERMS]

(1) Group..... Parts are classified into functional groups. Refer to the group index for specific groups.

(2) Fig. No.Indicates illustration number and corresponds to the FIG. NO. in the list.

(3) Ref. No. Corresponds to Ref. No. in parts list.

Example A..... The part indicated by Ref. No. 10 consists of part A and B. Part A is available either in the form of an assembly, Ref. No. 10(AY), or as a complete unit, A (CP). Part B is available as a part by itself.

Example B.....Parts C and D are available either as an assembly, Ref. No. 50(AY) or as a complete unit, (CP). Both parts are available as a part by itself.

(4) Sub-divided Ref. No.....Refers to a separate part within a group that is available as an independent part.

COOLING, STARTING GROUP									
REF NO.	部品番号 PART NUMBER	部品名称 PART NAME	数量 Q'TY	摘要 REMARKS	管理番号 CODE NO. FROM-TO	小売単価 UNIT PRICE	FIG. NO.		
③ 10	234-51201-01	ブロー ハウジング CP BLOWER HOUSING CP	1	D形用 for D type	-		500		
	234-51101-01	ブロー ハウジング CP BLOWER HOUSING CP	1	B形用 for B type	-		500		
20	234-91701-03	ラベル(トレード マーク) LABEL (TRADE MARK)	1		-		500		
⑤ 50	234-52602-01	シリンダ バッフル CP CYLINDER BAFFLE CP	1	D形用 for D type	-		500		
	234-52601-01	シリンダ バッフル CP CYLINDER BAFFLE CP	1	B形用 for B type	-		500		
60	234-52601-03	シリンダ バッフル CYLINDER BAFFLE	1		-		500		
70	234-91802-03	ラベル(エンジン ネーム) LABEL (ENGINE NAME)	1	D形用 for D type	-		500		
	234-91801-03	ラベル(エンジン ネーム) LABEL (ENGINE NAME)	1	B形用 for B type	-		500		
80	011-00600-20	フランジ ボルト FLANGE BOLT	1		-		500		
90	234-52701-23	ヘッド カバー HEAD COVER	1		0091-		500		
	234-52701-13	ヘッド カバー HEAD COVER	1		0001-0090		500		
	234-52701-03	ヘッド カバー HEAD COVER	1		-0000		500		
210	234-50211-00	リコイル スターター AY RECOIL STARTER AY	1		-		500		
④ 1	106-50116-08	スパイラル スプリング SPIRAL SPRING	1		-		500		
2	207-50122-18	リール CP REEL CP	1		-		500		
3	106-50113-08	スターター ロープ STARTER ROPE	1				500		
4	206-50101-08	スターター ノブ STARTER KNOB	1				500		

(5) Part No.....Part number assigned to part used in the applicable product. Is the number to be ordered.

(6) Part Name..Brief description of part number..

(7) Quantity....Number of parts required for particular part number in applicable product.

(8) Remarks.....Additional information (if applicable) required for applicable product.

(9) Code No... Indicates modification records and provides identification of the part used in the items with Production No. by referring to the Code No.

Example (C)

[-] The part has been continuously used in the applicable product regardless of Code No.

Example (D)

[0091-] Part used in the products with code number after 0091.

[0001-
0091] Part used in the products with code number between 0001 - 0091.

[- 0000] Part used in the products with code number before 0000.

(10) Unit Price..Refer to Robin America published Parts Price Catalog for pricing.

[Note] Information on parts for Engines with a Code Number before 0001 and without a Production No. stamped on the engines are available by providing the engine serial number found stamped on the crankcase of the engine.

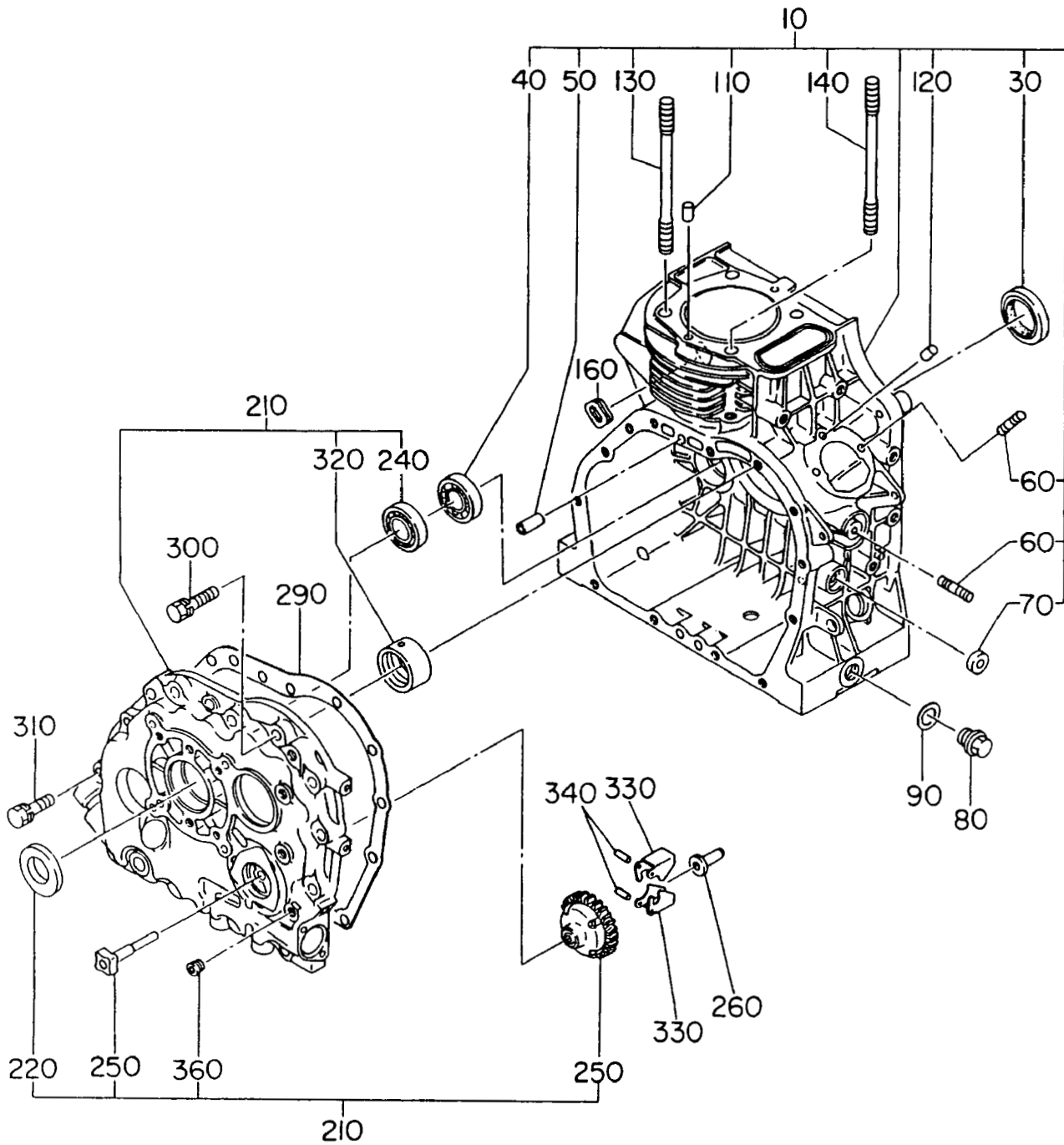
GROUP INDEX

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CRANKCASE GROUP

FIG. 1 0 0

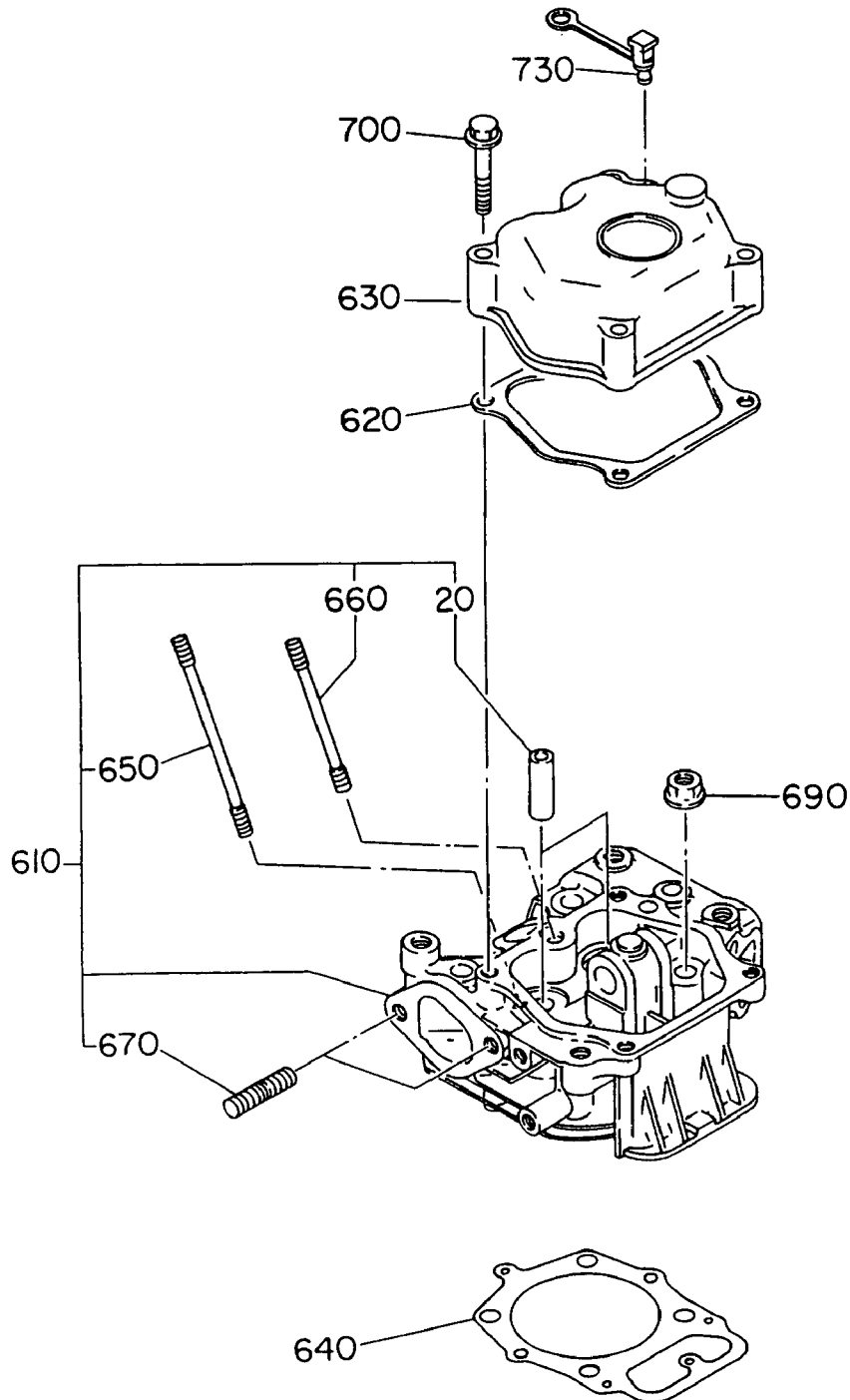
for D type



CRANKCASE GROUP

FIG. 1 1 0

CYLINDER HEAD



CRANKCASE

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REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10		244-10101-51	CRANKCASE CP		-	1			100
		244-10105-51	DY272YS0000		-	1			100
20		243-14204-13	VALVE GUIDE		-	2	OVER SIZE		110
30		044-03000-60	OIL SEAL		-	1	TB30488		100
40		060-01700-40	BALL BEARING		-	1	BB6003C3		100
50		005-26081-80	DOWEL PIN		-	2			100
60		001-37062-21	STUD		-	3			100
70		044-00800-30	OIL SEAL		-	1			100
80		040-11400-30	PLUG		-	2			100
90		021-11400-20	GASKET		-	2			100
110		031-00600-10	DOWEL PIN		-	2			100
120		031-00500-10	DOWEL PIN		-	1			100
130		244-16001-11	TENSION BOLT CP		-	3			100
140		244-16002-11	TENSION BOLT CP		-	1			100
160		* * * * *	GROMMET						
		243-75001-03	DY272YS0000		-	1			100
210		244-11009-01	MAINBEARING COVER CP		-	1			100
		243-11010-31	DY272YR0000		-	1			100
220		044-03000-30	OILSEAL		-	1	30DX45DX8B		100
		044-02500-20	DY272YR0000		-	1	25X41. 24X7. 3		100
240		060-01700-40	BALL BEARING		-	1	BB6003C3		100
250		243-45011-07	GOVERNOR GEAR SET		-	1			100
260		205-41901-03	GOVERNOR SLEEVE		-	1			100
290		243-15026-03	GASKET(BEARING COVER)		-	1			100
300		001-13083-50	BOLT AND WASHER AY		-	12			100
310		001-13084-00	BOLT AND WASHER AY		-	1			100
320		243-15801-03	MAIN BEARING		-	1	STD		100
		243-15802-03	MAIN BEARING		-	1	UNDER SIZE 0.25		100
		243-15803-03	MAIN BEARING		-	1	UNDER SIZE 0.50		100
330		220-41601-03	FLYWEIGHT		-	2			100
340		030-73000-70	PIN		-	2			100
360		212-15008-13	BLIND PLUG		-	1			100
610		243-13001-51	CYLINDER HEAD CP		-	1			110
620		243-15032-03	GASKET(ROCKER COVER)		-	1			110
630		243-17101-01	ROCKER COVER CP		-	1			110
640		244-15027-03	GASKET(HEAD) T=0.2		-	1	T=0.2		110

CRANKCASE

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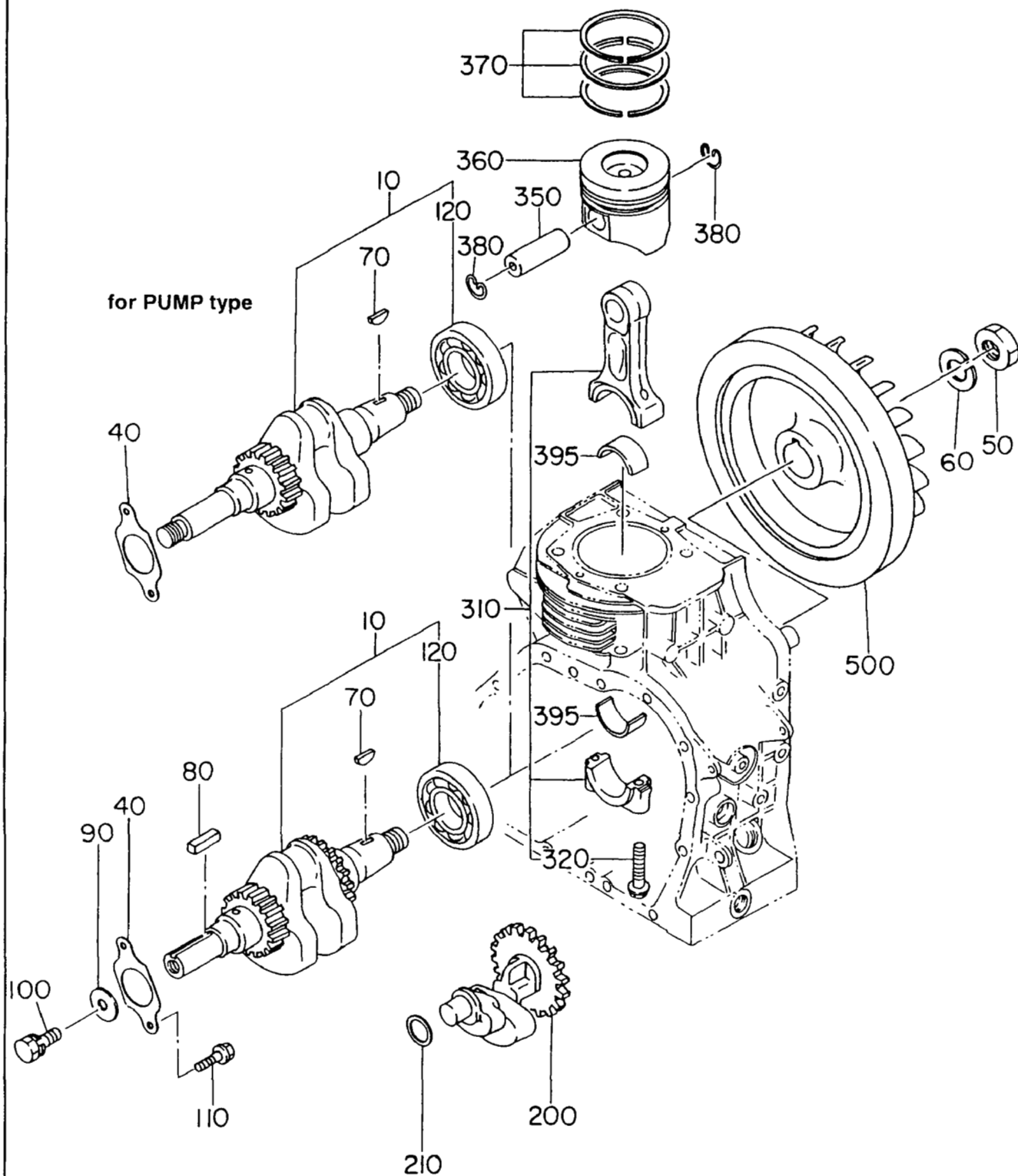
[illegible]

CRANK, PISTON GROUP

FIG. 200

for D type

for PUMP type



CRANKSHAFT, PISTON

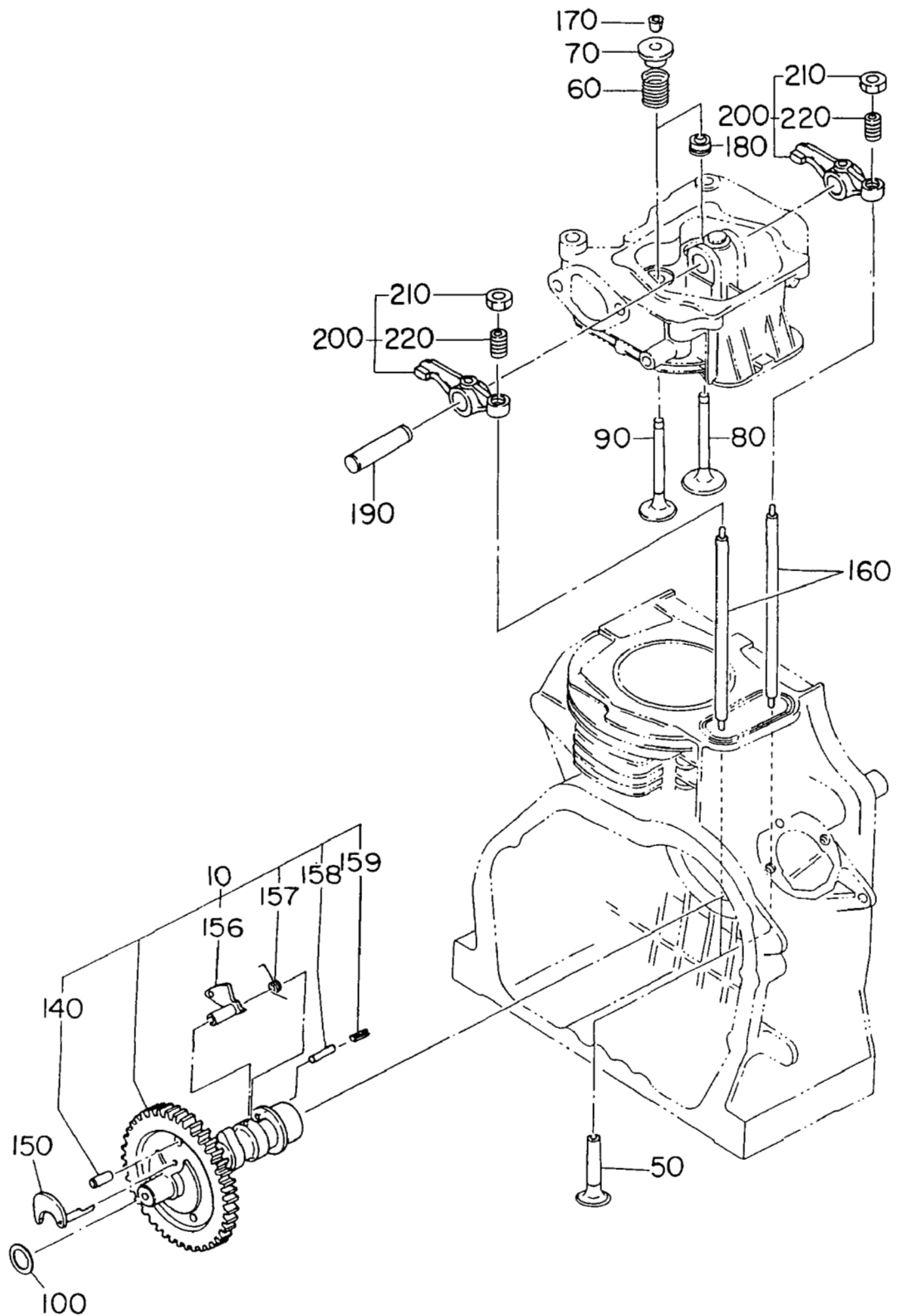
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REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10	244-20401-11		CRANK SHAFT CP		-	1			200
	243-20601-11		DY272YR0000		-	1			200
	244-20403-31		DY272YD1000		-	1			200
40	243-25001-03		THRUST WASHER		-	1	T=0.8		200
	243-25002-03		THRUST WASHER		-	1	T=1.0		200
	243-25003-03		THRUST WASHER		-	1	T=1.2		200
50	002-18180-00		NUT		-	1			200
60	003-20180-00		SPRING WASHER		-	1			200
70	032-30300-10		WOODRUFF KEY		-	1			200
80	207-26001-03		KEY		-	1			200
110	011-00600-10		FLANGE BOLT		-	2			200
120	060-03500-20		BALL BEARING		-	1	BB6307C3		200
200	243-24301-01		BALANCER CP		-	1			200
210	023-01700-20		SPACER		-	1	T=0.8		200
	023-01700-30		SPACER		-	1	T=1.0		200
	023-01700-40		SPACER		-	1	T=1.2		200
310	243-22510-00		CONNECTING ROD AY		-	1			200
320	243-23002-03		CONNECTING ROD BOLT		-	2			200
350	243-23301-03		PISTON PIN		-	1			200
360	244-23401-13		PISTON		-	1	STD.		200
	244-23402-13		PISTON		-	1	OVER SIZE 0.25MM		200
	244-23403-13		PISTON		-	1	OVER SIZE 0.50MM		200
370	244-23501-27		PISTON RING SET		-	1	STD.		200
	244-23502-27		PISTON RING SET		-	1	OVER SIZE 0.25MM		200
	244-23503-27		PISTON RING SET		-	1	OVER SIZE 0.50MM		200
380	056-52000-30		CLIP		-	2			200
395	243-22801-03		LARGE END BEARING		-	2	STD.		200
	243-22802-03		LARGE END BEARING		-	2	UNDER SIZE 0.25MM		200
	243-22803-03		LARGE END BEARING		-	2	UNDER SIZE 0.50MM		200
500	243-22410-13		FLYWHEEL		-	1			200

INTAKE, EXHAUST GROUP

FIG. 3 0 0

for D type



INTAKE, EXHAUST

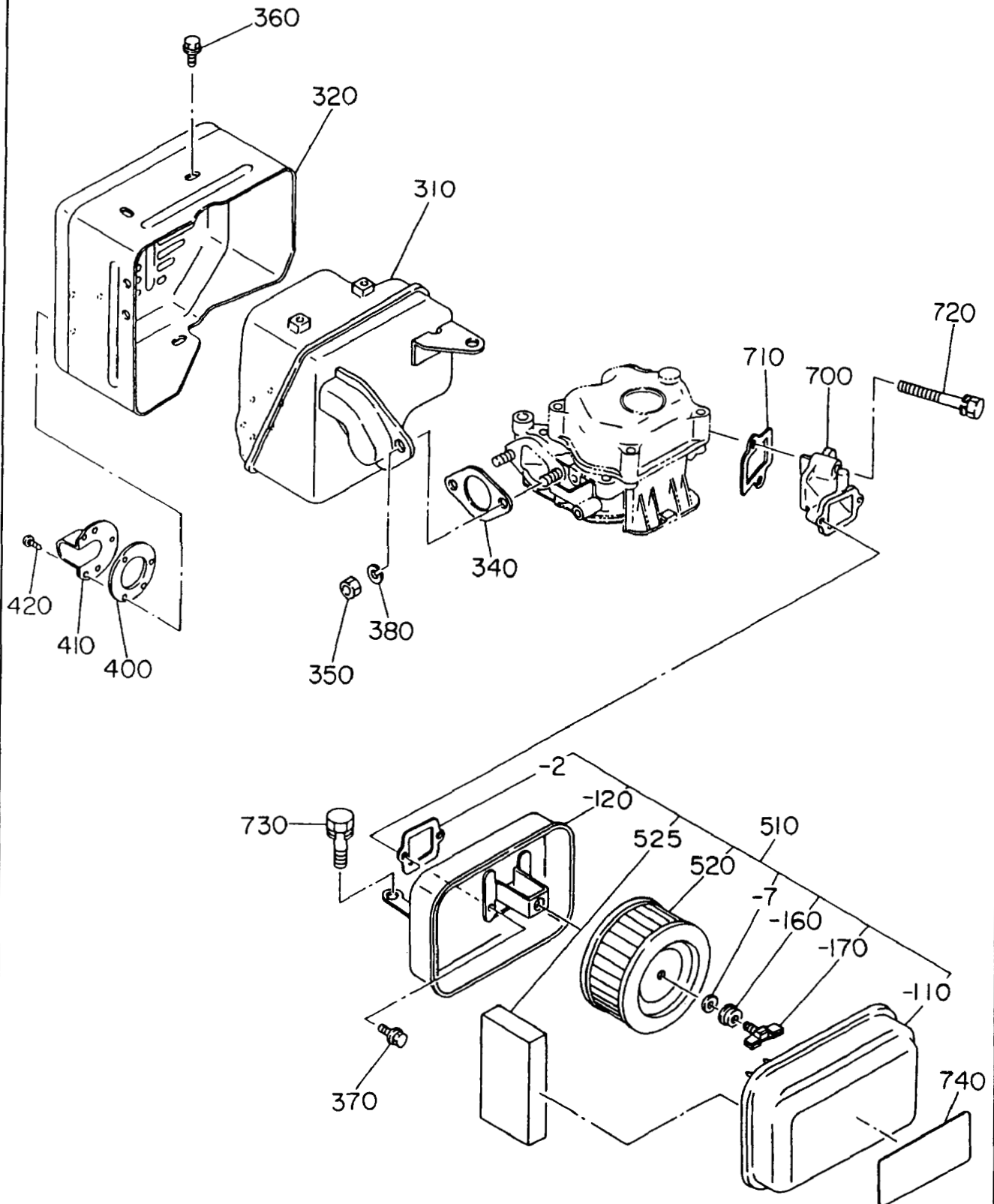
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REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10		243-31702-21		CAMSHAFT CP	-	1			300
50		243-33301-03		TAPPET	-	2			300
60		243-33601-03		VALVE SPRING	-	2			300
70		243-33701-13		SPRING RETAINER	-	2			300
80		243-33401-23		INTAKE VALVE	-	1			300
90		243-33501-23		EXHAUST VALVE	-	1			300
100		023-01600-20		SPACER	-	1	T=0.8		300
		023-01600-31		SPACER	-	1	T=1.0		300
140		005-26081-80		DOWEL PIN	-	1			300
150		243-35503-13		RELEASE LEVER	-	1			300
156		243-35505-03		RELEASE LEVER	-	1			300
157		243-35021-03		SPRING(RELEASE)	-	1			300
158		243-35022-03		SHAFT(RELEASE)	-	1			300
159		005-19031-20		SPRING PIN	-	1			300
160		243-35032-01		PUSH ROD CP	-	2			300
170		243-33801-13		RETAINER LOCK	-	4			300
180		237-16008-01		STEM SEAL	-	1			300
190		243-35034-03		ROCKER SHAFT	-	1			300
200		243-36002-01		ROCKER ARM CP	-	2			300
210		017-00800-90		NUT	-	2			300
220		014-90800-21		ADJUSTING SCREW	-	2			300
310		243-30101-51		MUFFLER CP	-	1			310
320		243-34201-01		MUFFLER COVER CP	-	1			310
340		243-35002-03		GASKET(EXHAUST)	-	1			310
350		002-19080-00		NUT	-	2			310
360		001-10061-00		BOLT&WASHER AY	-	4			310
370		001-13061-20		BOLT AND WASHER AY	-	2		001-14061-20	310
380		003-20080-00		SPRING WASHER	-	2			310
400		243-35005-23		GASKET(TAIL PIPE)	-	1			310
410		243-37002-11		TAIL PIPE CP	-	1			310
420		015-00400-40		TAPPING SCREW	-	3			310
510		243-32601-00		AIR CLEANER AY	-	1			310
- 2		243-32651-08		PACKING	-	1			310
- 7		243-32650-08		PACKING	-	1			310
-110		243-32640-08		COVER CP	-	1			310
-120		243-32620-08		BACK PLATE CP	-	1			310

INTAKE, EXHAUST GROUP

FIG. 3 1 0

MUFFLER & AIR CLEANER AY

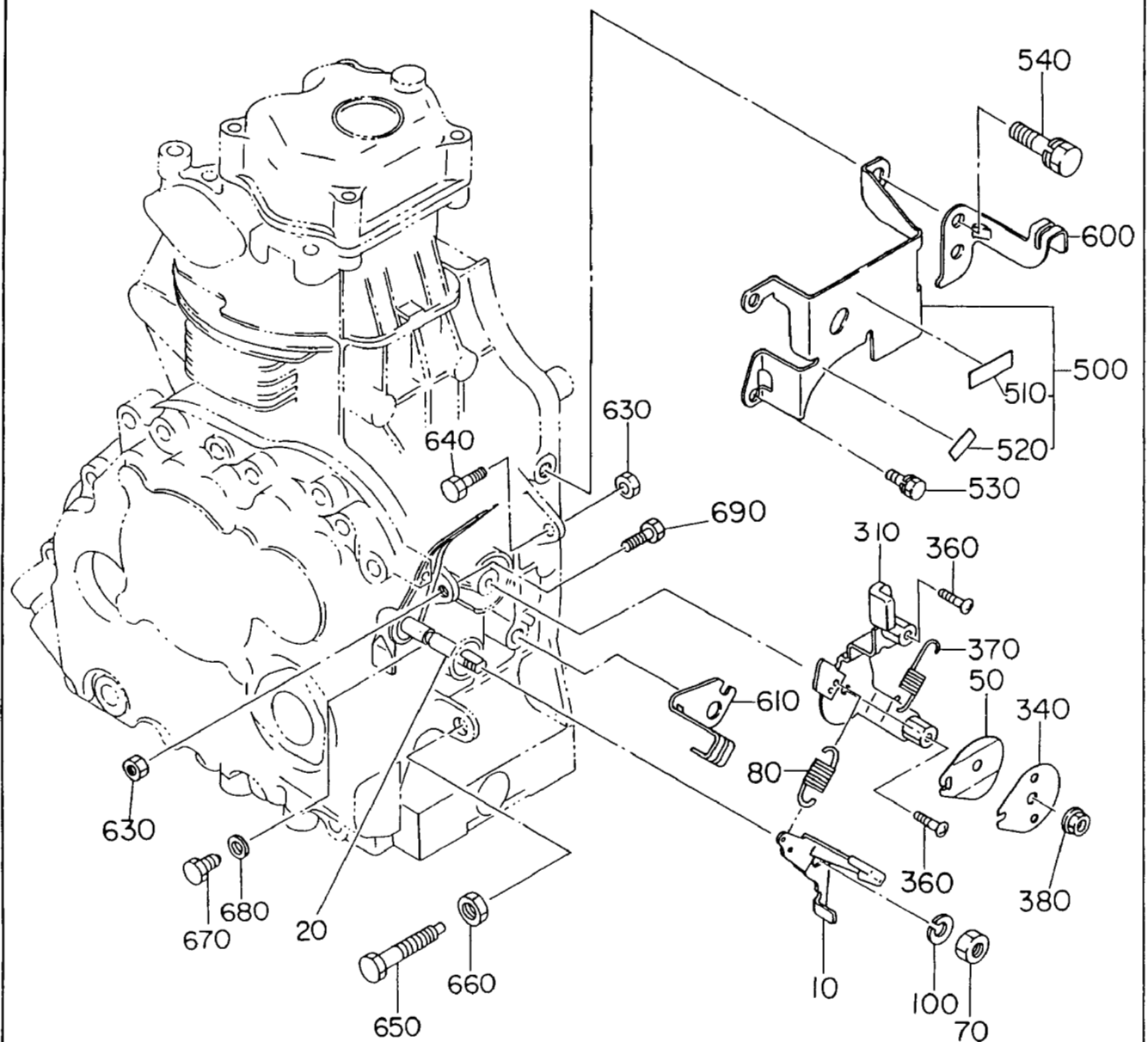


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GOVERNOR, OPERATE GROUP

FIG. 400

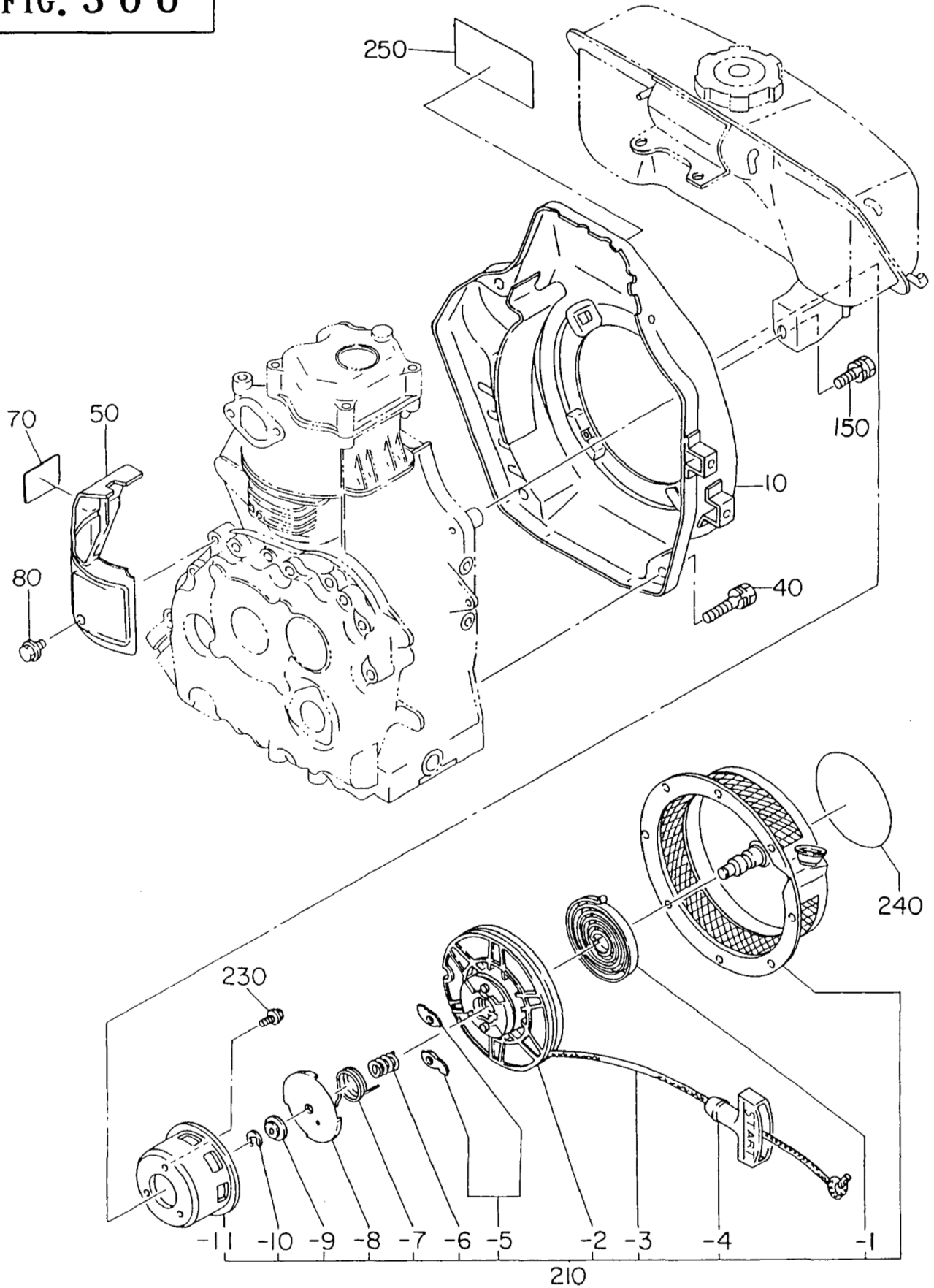


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COOLING, STARTING GROUP

FIG. 500

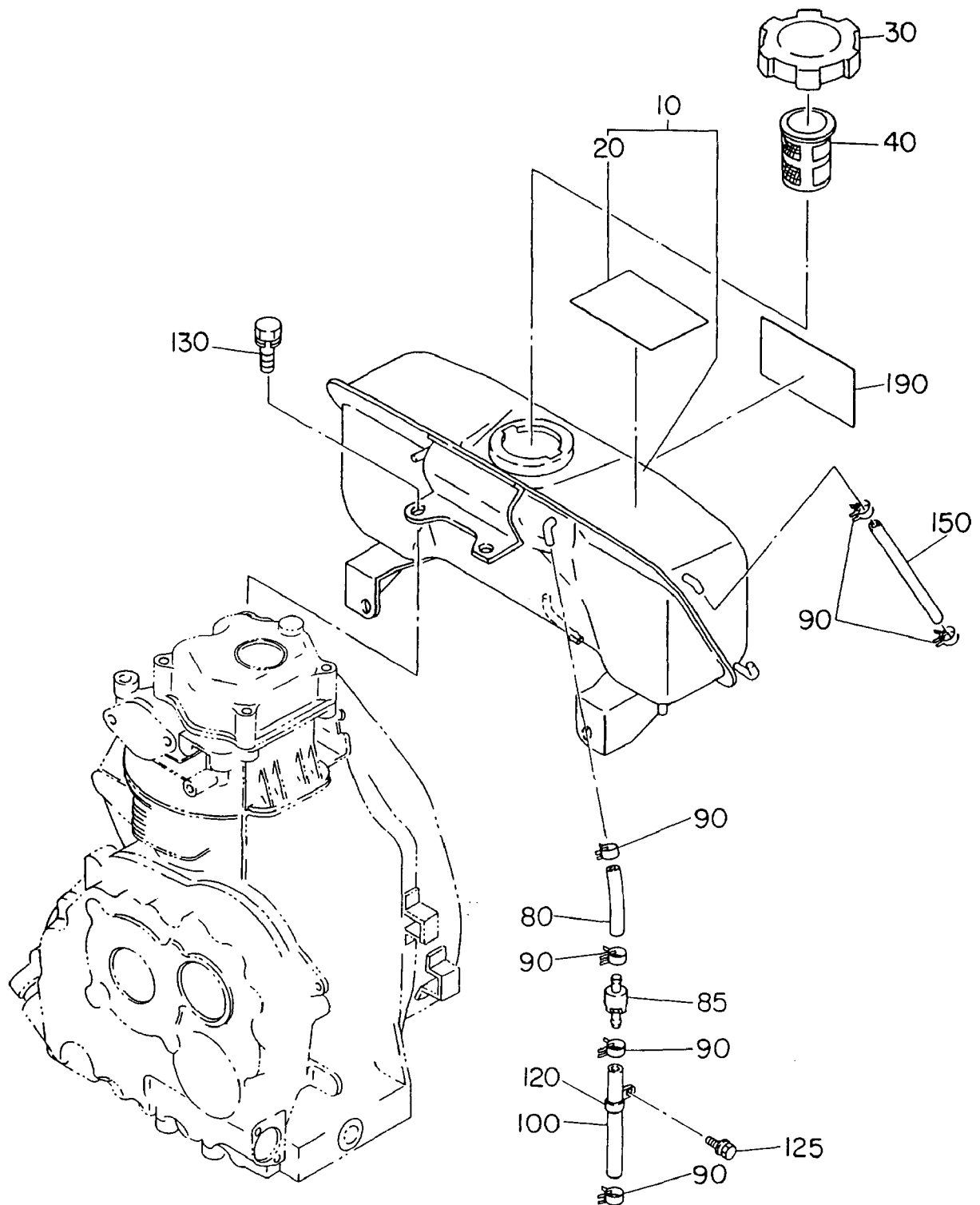


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FUEL, LUBRICANT GROUP

FIG. 6 0 0

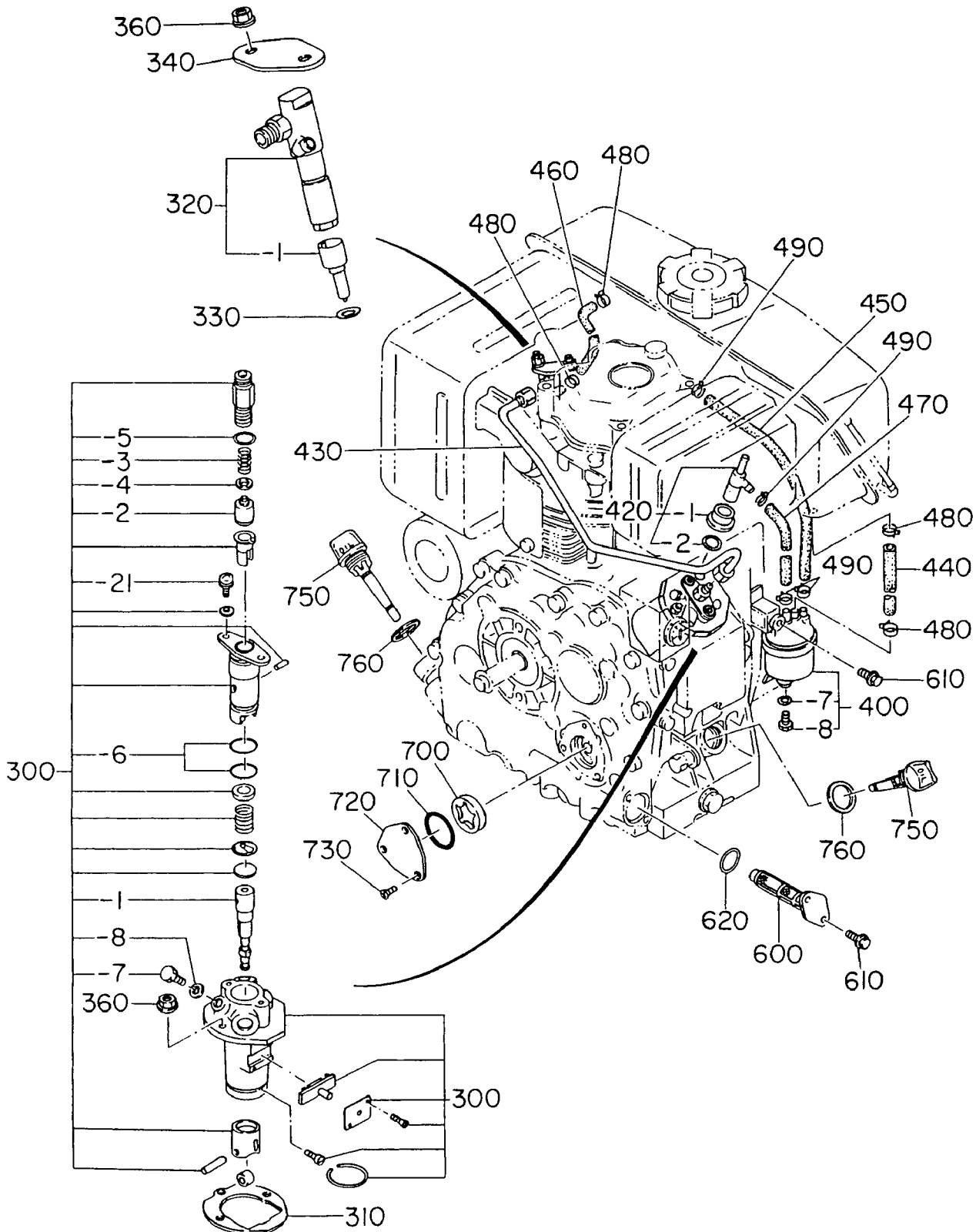


REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10		243-60116-21		FUEL TANK CP	-	1			600
20		243-91907-13		LABEL (INSTRUCTION)	-	1			600
25		073-20039-00		LABEL (WARNING)	-	1			600
30		043-04300-15		FUEL TANK CAP CP	-	1			600
40		064-13600-10		FUEL FILTER	-	1			600
80		085-14500-00		RUBBER PIPE	-	1	4.5X9XM		600
85		228-65032-13		CHECK VALVE	-	1			600
90		056-10800-10		HOSE CLAMP	-	5			600
95		056-10800-20		HOSE CLAMP	-	1			600
100		085-14500-00		RUBBER PIPE	-	1	4.5X9XM		600
120		150-75201-03		CLAMP	-	1			600
125		001-10061-00		BOLT&WASHER AY	-	1			600
130		001-13082-00		BOLT & WASHER AY	-	2			600
150		085-00500-00		VINYL PIPE	-	1	5X8XM		600
190		256-91701-03		LABEL (TRADE MARK)	-	1			600
300		243-63101-20		INJECTION PUMP AY	-	1			610
- 1		243-63128-08		PLUNGER AY	-	1			610
- 2		243-63103-08		DELIVERY VALVE	-	1			610
- 3		243-63104-08		DELIVERY SPRING	-	1			610
- 4		243-63105-08		GASKET	-	1			610
- 5		243-63107-08		O-RING	-	1			610
- 6		243-63129-08		O RING	-	2			610
- 7		243-63124-08		BOLT	-	1			610
- 8		243-63125-08		GASKET	-	1			610
- 21		243-63130-08		SCREW	-	2			610
310		243-65001-03		GASKET (INJECTION)	-	1	T=0.1		610
		243-65002-03		GASKET (INJECTION)	-	1	T=0.2		610
		243-65003-03		GASKET (INJECTION)	-	1	T=0.3		610
320		243-63201-00		NOZZLE AY	-	1			610
- 1		243-63204-08		NOZZLE	-	1			610
330		228-65004-03		GASKET (NOZZLE)	-	1			610
340		243-66001-01		BRACKET CP, NOZZLE 1	-	1			610
360		002-38060-00		FLANGE NUT	-	4			610
400		243-62101-20		FUEL FILTER AY	-	1			610
- 7		228-62112-08		PACKING	-	1			610
- 8		228-62111-08		PLUG	-	1			610

FUEL, LUBRICANT GROUP

FIG. 6 1 0

FUEL SYSTEM

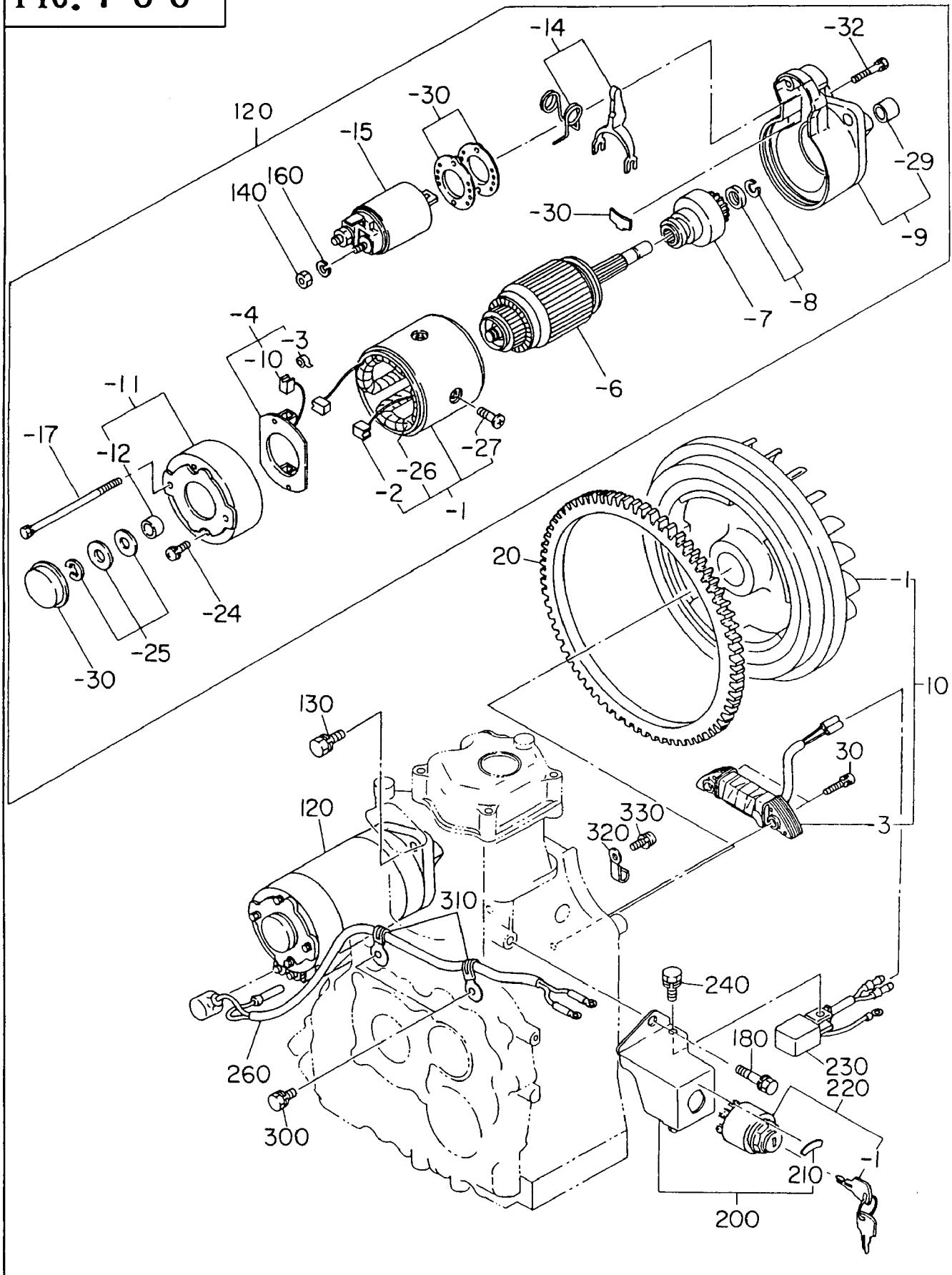


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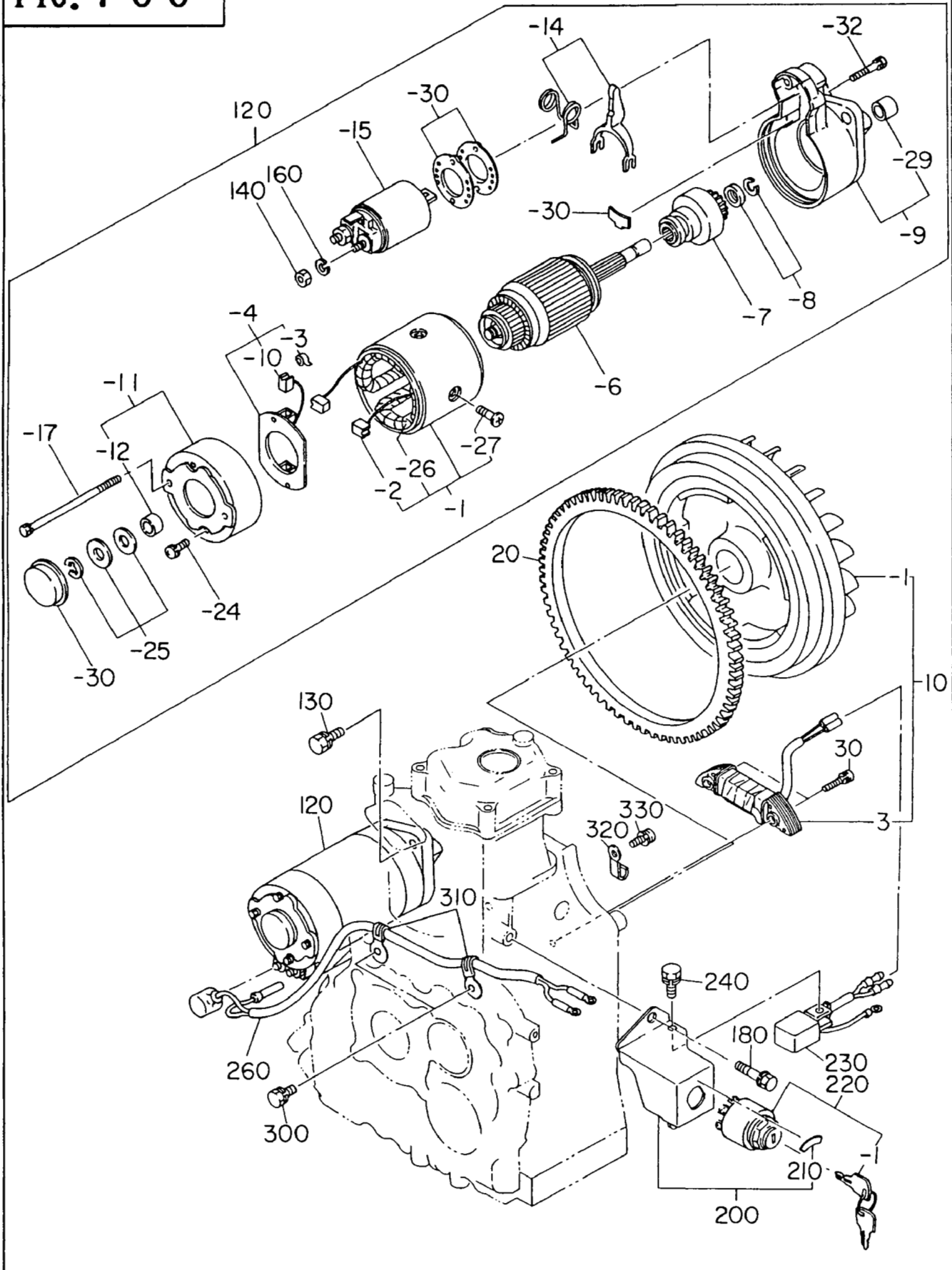
ELECTRIC DEVICE GROUP (DS.BS)

FIG. 7 0 0



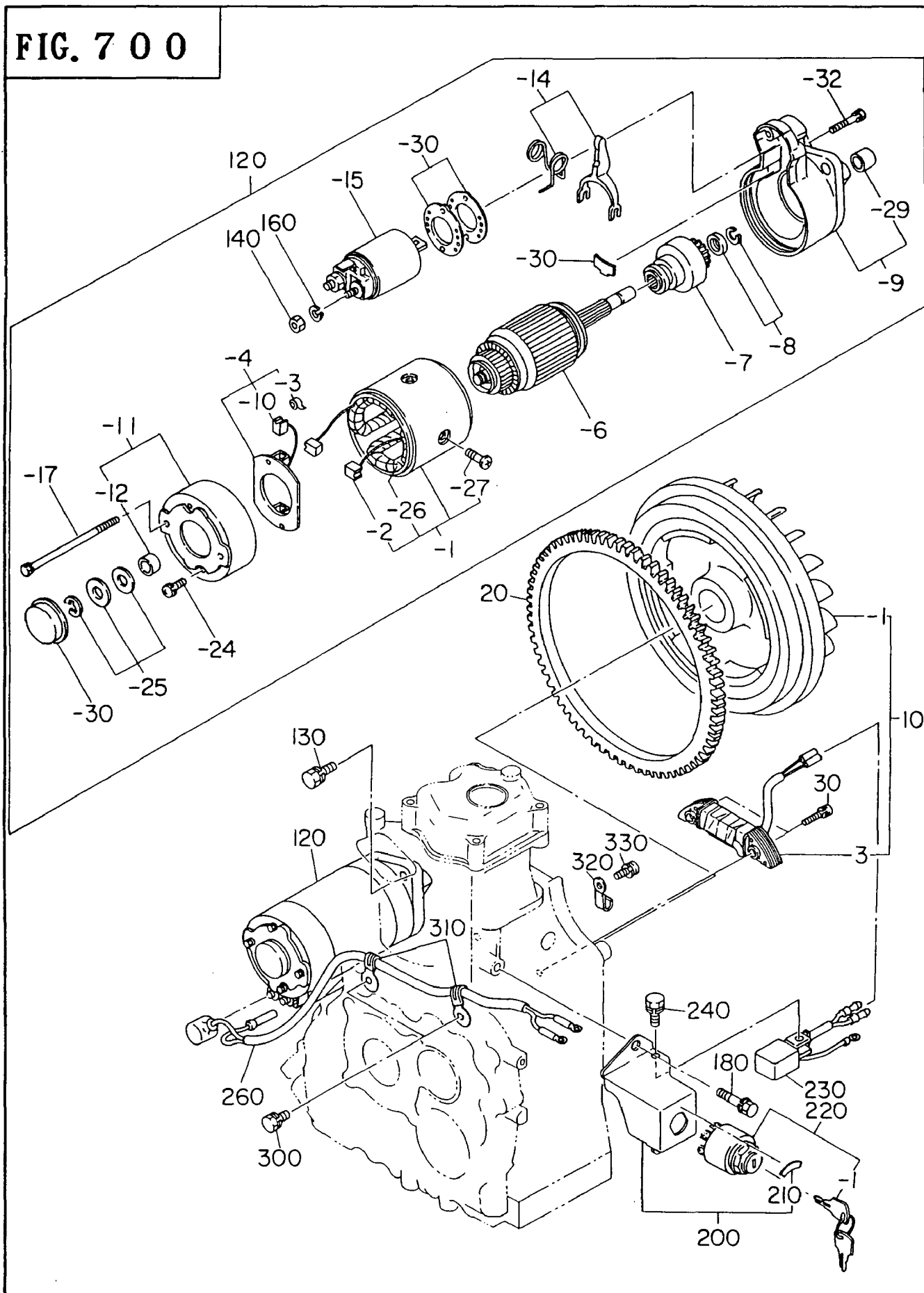
REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10		*****		MAGNETO AY					
		243-70110-40		DY272YS0000	-	1			700
- 1		*****		FLYWHEEL					
		243-70121-08		DY272YS0000	-	1			700
- 3		*****		CHARGE COIL					
		243-70145-08		DY272YS0000	-	1			700
20		*****		RING GEAR					
		243-71002-13		DY272YS0000	-	1			700
30		*****		SCREW & WASHER AY					
		004-35062-50		DY272YS0000	-	2			700
120		*****		STARTING MOTOR AY					
		243-70506-00		DY272YS0000	-	1			700
- 1		*****		YOKE AY					
		243-70563-08		DY272YS0000	-	1			700
- 2		*****		BRUSH +					
		210-70539-08		DY272YS0000	-	2			700
- 3		*****		BRUSH SPRING					
		243-70542-08		DY272YS0000	-	3			700
- 4		*****		BRUSH HOLDER AY					
		243-70530-08		DY272YS0000	-	1			700
- 6		*****		ARMATURE AY					
		243-70561-08		DY272YS0000	-	1			700
- 7		*****		PINION AY					
		243-70567-08		DY272YS0000	-	1			700
- 8		*****		PINION STOPPER SET					
		210-70534-08		DY272YS0000	-	1			700
- 9		*****		GEAR CASE AY					
		243-70568-08		DY272YS0000	-	1			700
- 10		*****		BRUSH(-)					
		243-70540-08		DY272YS0000	-	1			700
- 11		*****		REAR COVER AY					
		243-70506-08		DY272YS0000	-	1			700
- 12		*****		REAR COVER METAL					
		210-70542-08		DY272YS0000	-	1			700
- 14		*****		SHIFT LEVER KIT					
		243-70525-08		DY272YS0000	-	1			700

FIG. 7 0 0



REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
- 15	*****		MAGNETIC SWITCH AY						
		243-70515-08		DY272YS0000	-	1			700
- 17	*****		THROUGH BOLT						
		243-70570-08		DY272YS0000	-	2			700
- 24	*****		SCREW SET						
		217-70533-08		DY272YS0000	-	1			700
- 25	*****		THRUST WASHER KIT						
		210-70533-08		DY272YS0000	-	1			700
- 26	*****		FIELD COIL AY						
		243-70565-08		DY272YS0000	-	1			700
- 27	*****		SCREW						
		210-70508-08		DY272YS0000	-	4			700
- 29	*****		REAR COVER METAL						
		210-70542-08		DY272YS0000	-	1			700
- 30	*****		DUST COVER KIT						
		243-70569-08		DY272YS0000	-	1			700
- 32	*****		BOLT						
		243-70571-08		DY272YS0000	-	2			700
130	*****		BOLT AND WASHER AY						
		001-14083-00		DY272YS0000	-	2			700
140	*****		NUT						
		002-28080-00		DY272YS0000	-	1			700
160	*****		SPRING WASHER						
		003-20080-00		DY272YS0000	-	1			700
180	*****		BOLT & WASHER AY						
		001-13081-60		DY272YS0000	-	1			700
200	*****		CONTROL BOX CP						
		243-40602-11		DY272YS0000	-	1			700
210	*****		LABEL (STARTER SWITCH)						
		073-20010-90		DY272YS0000	-	1			700
220	*****		SWITCH						
		066-00003-30		DY272YS0000	-	1			700
- 1	*****		KEY (0660000330)						
		066-00099-80		DY272YS0000	-	2			700
230	*****		DIODE RECTIFIER CP						
		243-71401-01		DY272YS0000	-	1			700

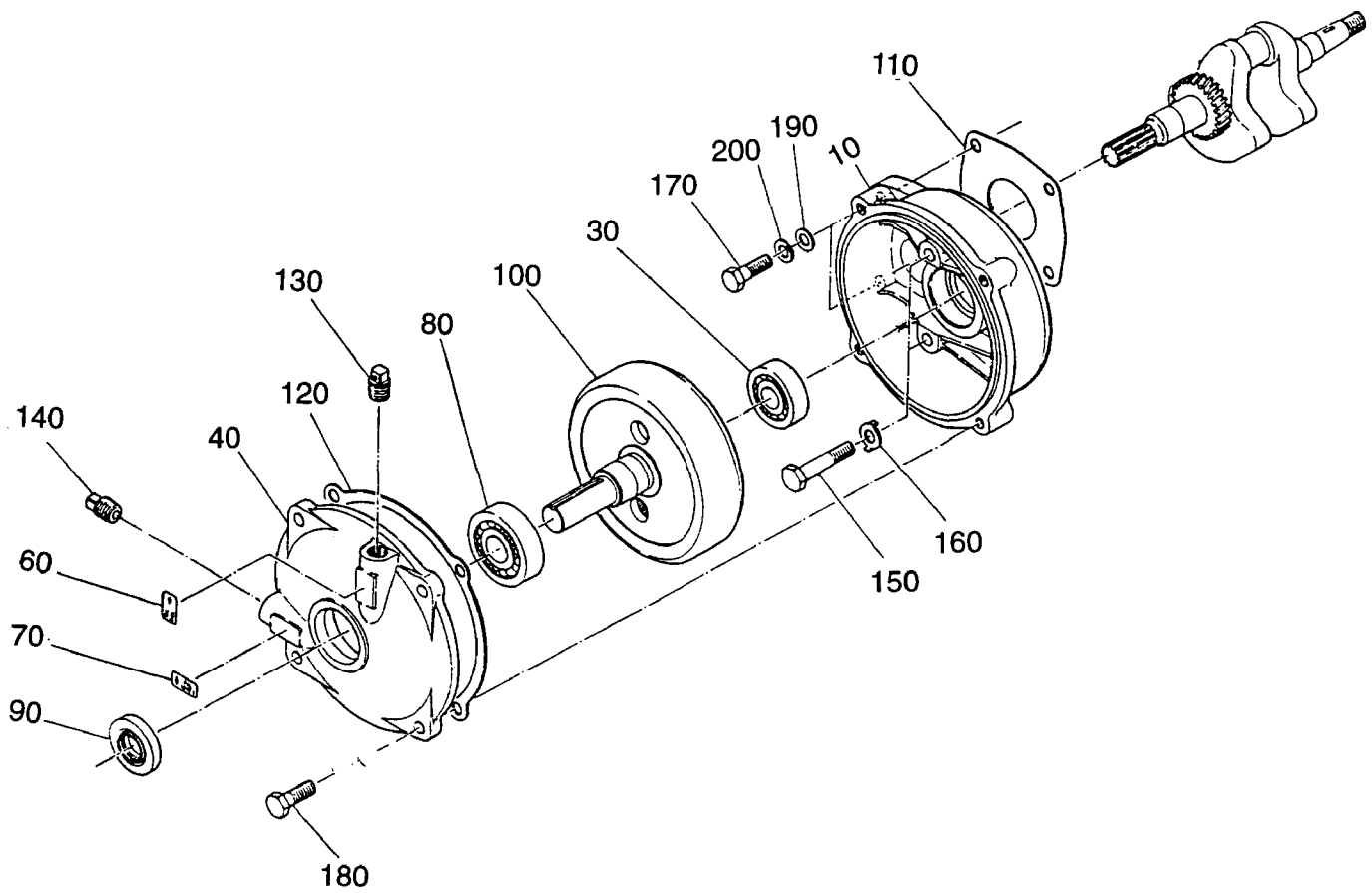
FIG. 7 0 0



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— 25 —

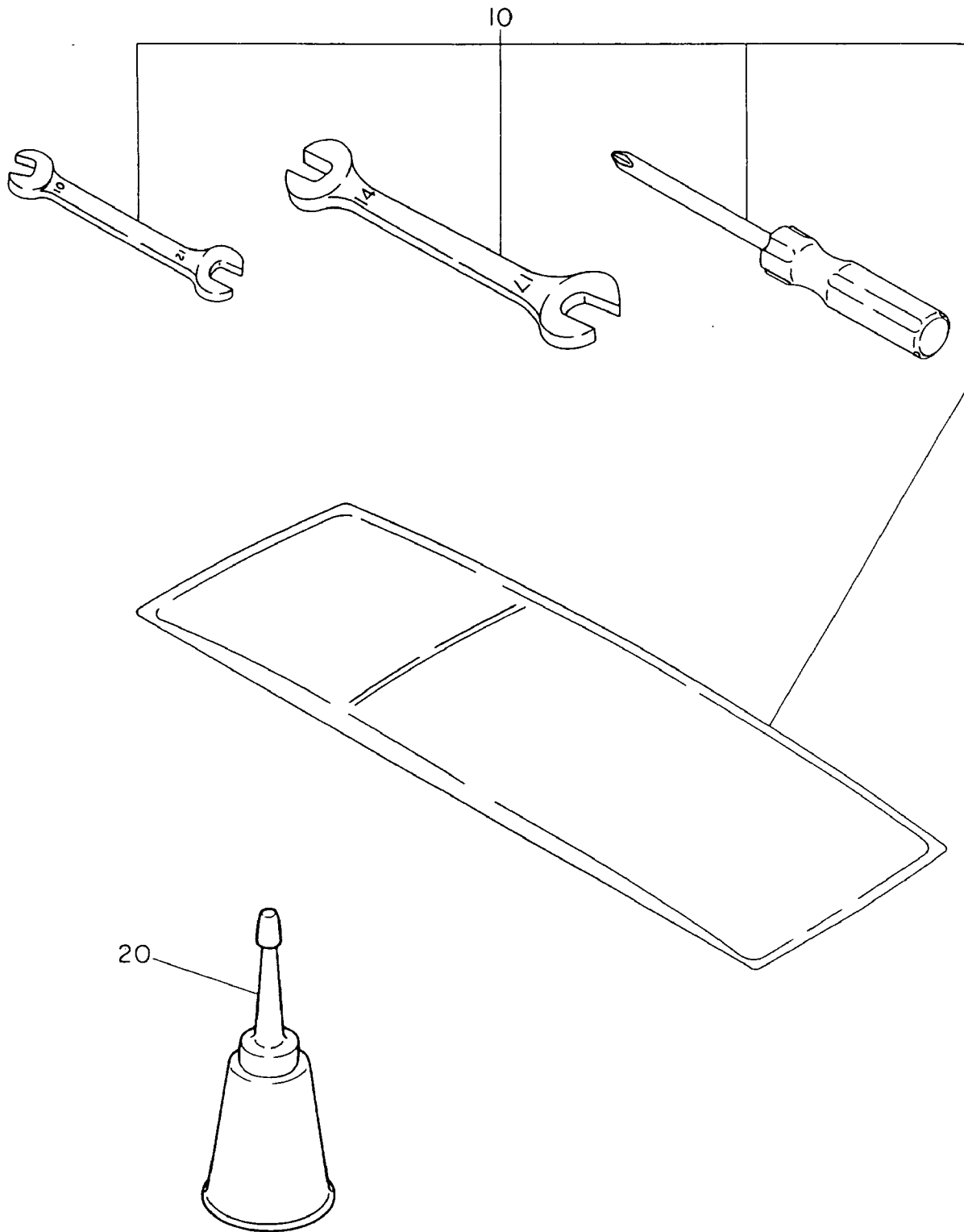
1/6 GEAR REDUCTION



REF. NO.	PART NUMBER		PART NAME		CODE NO. FROM - TO	QTY	REMARKS	INTERCHANGEABLE PART NUMBER	FIG. NO.
		PART NUMBER		SPEC. NO.					
10	*****		REDUCTION CASE CP						
		207-80101-01		DY272YR0000	-	1			800
30	*****		BALL BEARING						
		060-01500-20		DY272YR0000	-	1	BB6302C3		800
40	*****		REDUCTION COVER CP						
		207-80701-01		DY272YR0000	-	1			800
60	*****		LABEL(OIL FILLER)						
		206-95001-03		DY272YR0000	-	1			800
70	*****		LABEL(LEVEL MARK)						
		206-95002-03		DY272YR0000	-	1			800
80	*****		BALL BEARING						
		060-03000-20		DY272YR0000	-	1	BB6206C3	060-03002-20	800
90	*****		OILSEAL						
		044-03000-30		DY272YR0000	-	1	30DX45DX8B		800
100	*****		DRIVING SHAFT						
		207-81101-03		DY272YR0000	-	1		207-81101-13	800
110	*****		GASKET(A)						
		206-85101-03		DY272YR0000	-	1			800
120	*****		GASKET(B)						
		206-85102-03		DY272YR0000	-	1			800
130	*****		PLUG(A)						
		206-85001-03		DY272YR0000	-	1			800
140	*****		PLUG(B)						
		206-85002-03		DY272YR0000	-	1			800
150	*****		BOLT						
		010-10800-30		DY272YR0000	-	2			800
160	*****		LOCK WASHER						
		003-38080-00		DY272YR0000	-	2			800
170	*****		BOLT						
		010-10800-80		DY272YR0000	-	2			800
180	*****		BOLT AND WASHER AY						
		001-14082-50		DY272YR0000	-	4			800
190	*****		WASHER						
		003-10080-00		DY272YR0000	-	2			800
200	*****		SPRING WASHER						
		003-20080-00		DY272YR0000	-	2			800

ACCESSORIES, LABEL GROUP

FIG. 9 0 0



ACCESORIES, LABEL

93/09/24

[illegible]

— NOTES —



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