

Robin Industrial Engines®

PARTS MANUAL

Model

DY30

1193P230



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)	
EY400DD1650	XXXX
(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.

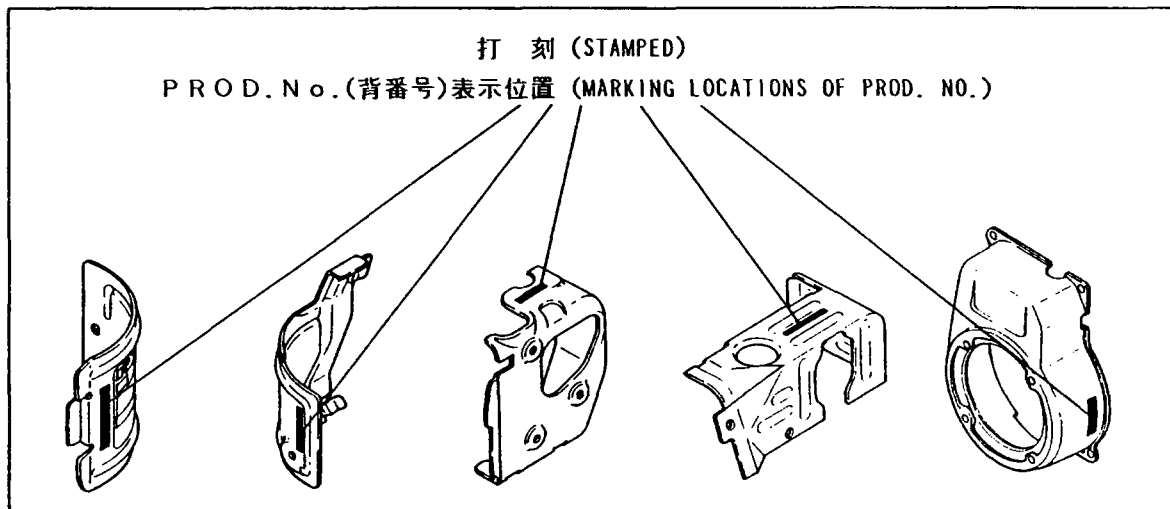
MARKING LOCATIONS OF PRODUCTION NUMBER

PROD.No.

How to check PROD. No.

PROD.No.(背番号)は、下記により確認して下さい。

Check PROD. No. as illustrated below.



PROD.No.(背番号)15桁は、シリンダーパッフル上に打刻、又はブロワーハウジングなど見易い位置にラベルの貼付など、いずれかで表示されています。

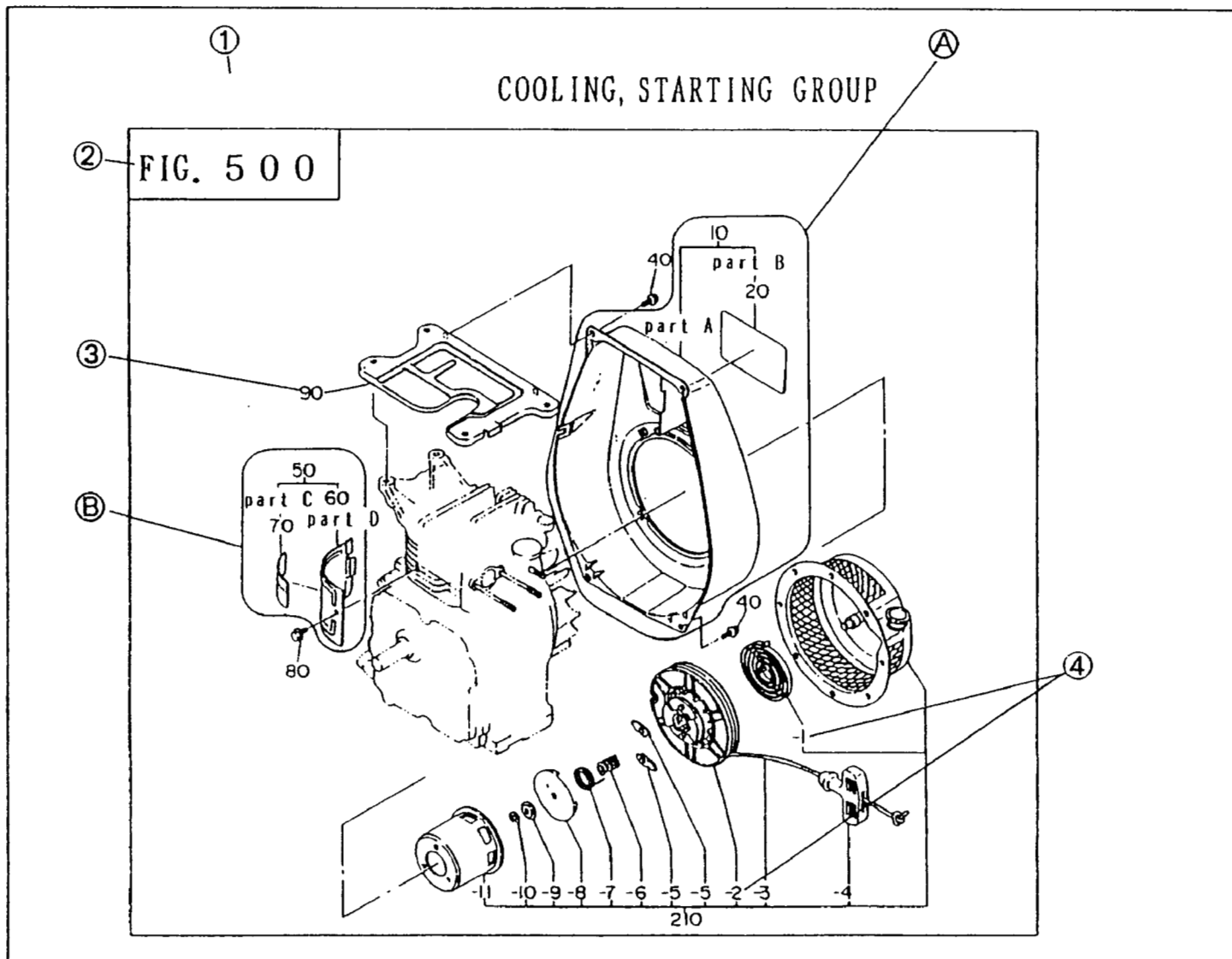
PROD.No. with 15 characters is marked either by stamping on the cylinder baffle or by sticking label to easily visible locations such as on the blower housing.

PROD.No.(背番号)
表示例
Marking example

PROD.No.○○△△△□□□□□××××

PROD.No.○○△△△□□□□□
××××

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.

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	1	D,DS形用 for D,DS type	-		500
		234-51101-01	1	B,BS形用 for B,BS type	-		500
20	234-91701-03	ラベル(トレードマーク) シリンダー バッフル CP	1		-		500
50	234-52602-01	CYLINDER BAFFLE CP	1		-		500
⑤	60	234-52601-03	1		-		500
70	234-91802-03	ラベル,エンジンネーム エンジンネーム	1		-		500
80	011-00600-20	フランジ ボルト	1		-		500
90	234-52701-23	ヘッドカバー	1		0091-		500
	234-52701-13	ヘッドカバー	1		0001-0090		500
	234-52701-03	ヘッドカバー	1		-0000		500
	234-52700-13	ヘッドカバー	1		E/C NO. 1002994~		500
	234-52700-03	ヘッドカバー	1		-		500
210	234-50211-00	リコイル スターター AY	1		-		500
-1	106-50116-08	スパイラル スプリング	1		-		500
④	-2	207-50122-18	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.

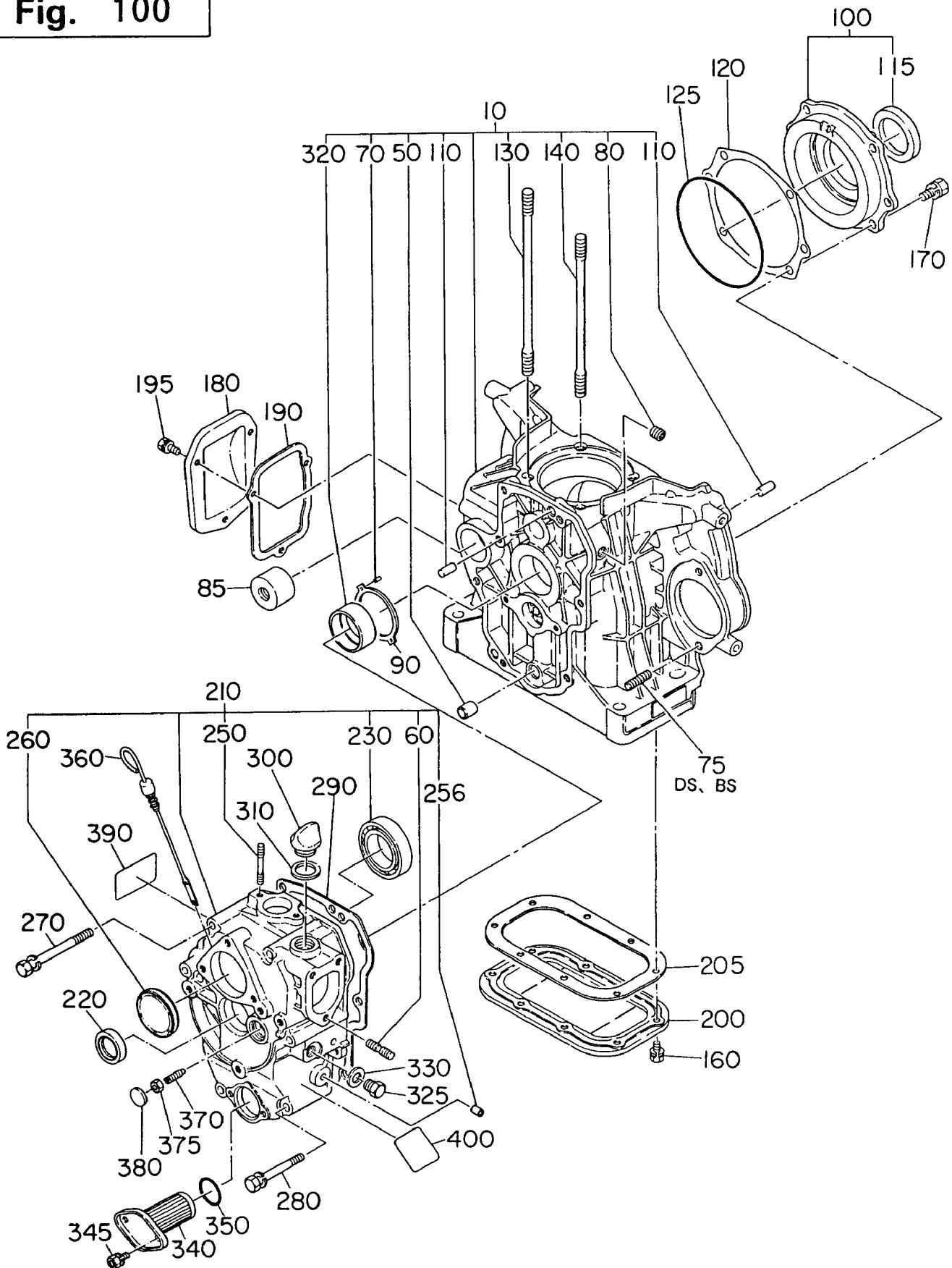
(10) Unit Price..Refer to Robin America published Parts Price Catalog for pricing.

[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

GROUP NAME	FIG. NO.	PAGE
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CRANK, PISTON.....	200	8
OPTIONAL EQUIPMENT	201	10
INTAKE, EXHAUST	300	12
MUFFLER & AIR CLEANER	300	16
GOVERNOR, OPERATE	400	20
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FUEL, LUBRICANT	600	24
ACCESSORIES, LABEL	900	28

Fig. 100



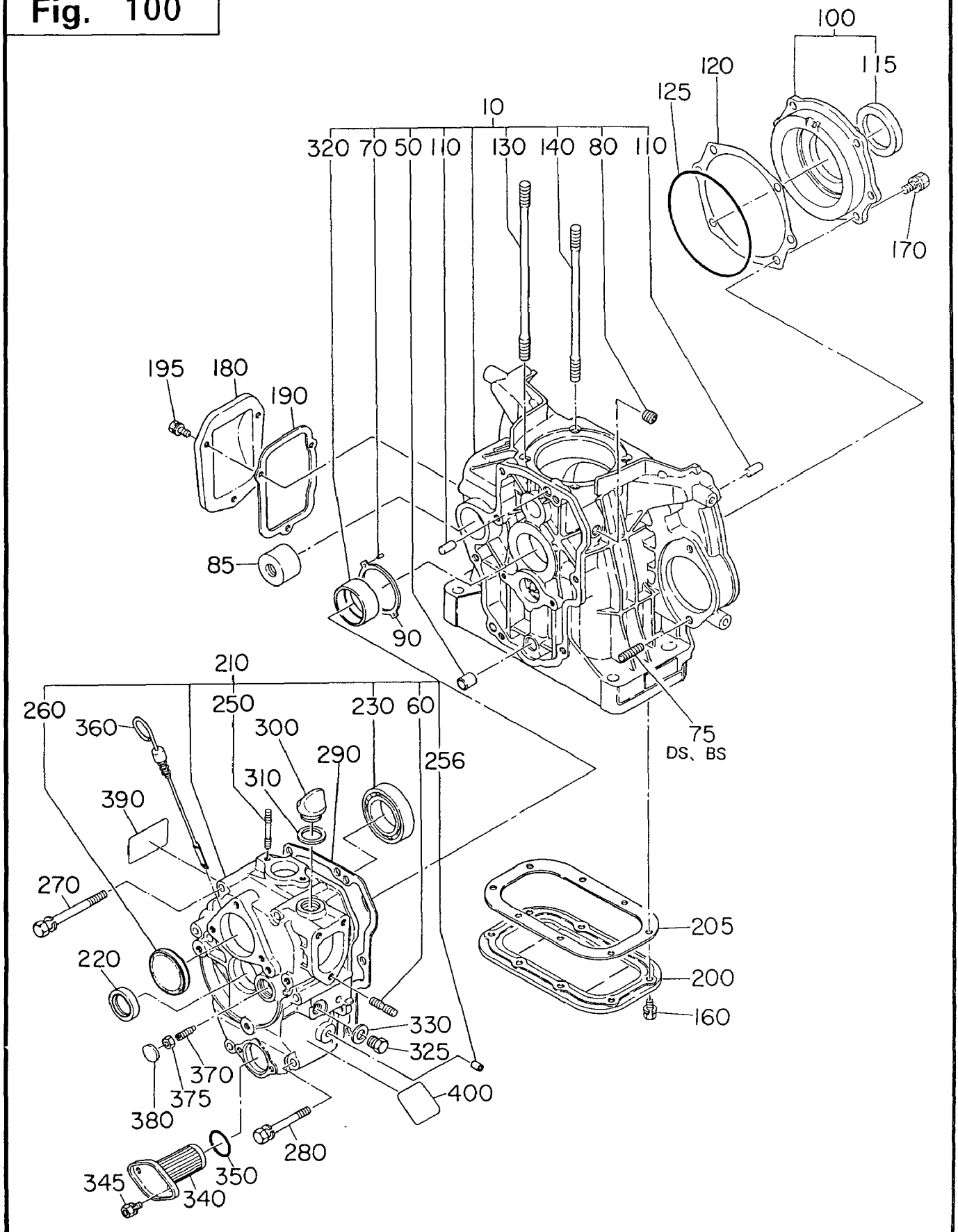
CRANKCASE

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-10111-01	CRANKCASE CP	1		-			100
20	228-14202-03	VALVE GUIDE	2		-			100
50	228-15003-13	PIPE KNOCK	1		-			100
60	001-32083-51	STUD	3		-			100
70	005-19250-60	SPRING PIN	2		-			100
80	212-15008-13	BLIND PLUG	1		-			100
85	228-25002-03	SLEEVE(BALANCER)	1		-			100
90	228-15002-03	THRUST BEARING	1		-			100
100	228-11501-11	BEARING HOUSING CP	1		-			100
110	005-26081-80	DOWEL PIN	4		-			100
115	044-04000-20	OIL SEAL	1		-			100
120	228-15004-03	GASKET(BEAR. HOUSING)	1	T=0.1 SELECTIVE AY	-			100
	228-15005-03	GASKET(BEAR. HOUSING)	1	T=0.2 SELECTIVE AY	-			100
	228-15006-03	GASKET(BEAR. HOUSING)	1	T=0.3 SELECTIVE AY	-			100
125	228-15014-03	O RING(BEAR. HOUSING)	1		-			100
130	228-16001-11	TENSION BOLT 1	2		-			100
140	228-16002-11	TENSION BOLT 2	2		-			100
160	980-05060-10	BOLT & WASHER AY	10		-			100
170	001-13082-00	BOLT & WASHER AY	6		-			100
180	228-26001-01	BALANCER COVER CP	1		-			100
190	228-25004-03	GASKET(BALANCER COV)	1		-			100
195	980-05060-10	BOLT & WASHER AY	3		-			100
200	228-11601-03	OIL PAN	1		-			100
205	228-15008-03	GASKET(OIL PAN)	1		-			100
210	228-11701-11	GEAR CASE COVER CP	1		-			100
220	044-02200-50	OIL SEAL	1		-			100
230	060-03500-40	BALL BEARING	1	BB6007C3	-			100
250	001-32064-50	STUD	2		-			100
260	041-05000-11	BLIND PLATE	1		-			100
270	001-13088-50	BOLT AND WASHER AY	4		-			100
280	001-13086-50	BOLT AND WASHER AY	3		-			100
290	228-15007-03	GASKET(CASE COVER)	1		-			100
300	228-65003-03	PLUG	1		-			100
310	021-32000-10	GASKET	1		-			100
320	228-15801-03	MAIN BEARING STD	1	STD	-			100
	228-15802-03	MAIN BEARING 0.25MM	1	UNDER SIZE 0.25	-			100

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DY300YD0000 EX. R/A-STD (RE)

Fig. 100



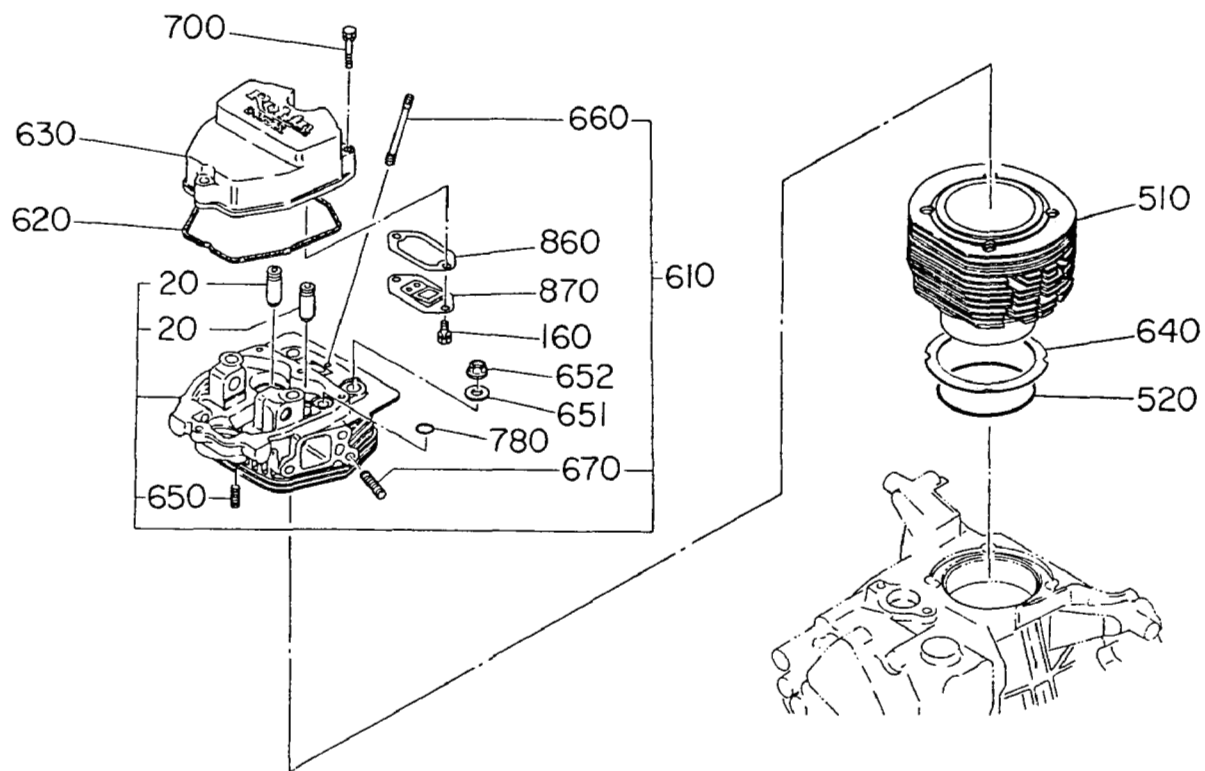
CRANKCASE GROUP

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
320	228-15803-03	MAIN BEARING 0.50MM	1	UNDER SIZE 0.50	-			100
325	040-11200-30	PLUG	1		-			100
330	003-70120-00	GASKET, ALUMINUM	1		-			100
340	228-64301-00	OIL FILTER AY	1		-			100
345	980-05060-10	BOLT & WASHER AY	2		-			100
350	024-03000-10	O RING	1		-			100
360	228-63610-01	OIL GAUGE CP	1		-			100
370	014-90600-70	ADJUSTING SCREW	1		-			100
375	002-18060-00	NUT	1		-			100
380	041-12200-10	BLIND PLUG	1		-			100
400	228-92104-03	LABEL (OPERATION)	1		-			100
510	228-12401-12	CYLINDER UN	1		-			100
520	229-15011-03	O RING (CYLINDER)	1		-			100
610	228-13110-11	CYLINDER HEAD CP	1		-			100
620	228-15010-03	GASKET (ROCKER COVER)	1		-			100
630	228-17001-03	ROCKER COVER	1		-			100
640	228-15012-13	SPACER, CYLINDER 0.1	1	T=0.1 SELECTIVE AY	-			100
	228-15013-13	SPACER, CYLINDER 0.2	1	T=0.2 SELECTIVE AY	-			100
650	001-31062-51	STUD	2		-			100
651	980-30110-70	WASHER (11.5X23X4)	4		-	803011070		100
652	018-01000-11	FLANGE NUT	4		-			100
660	010-50601-50	STUD	2		-			100
670	001-37082-01	STUD	6		-			100
700	001-13064-00	BOLT AND WASHER AY	3		-			100
780	024-01300-10	O RING	1		-			100
860	228-15009-23	GASKET (BREATHING)	1		-			100
870	228-15301-01	BREATHING PLATE CP	1		-			100
960	228-99001-07	GASKET SET	1		-			100

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DY300YD0000 EX. R/A-STD (RE)

Fig. 100



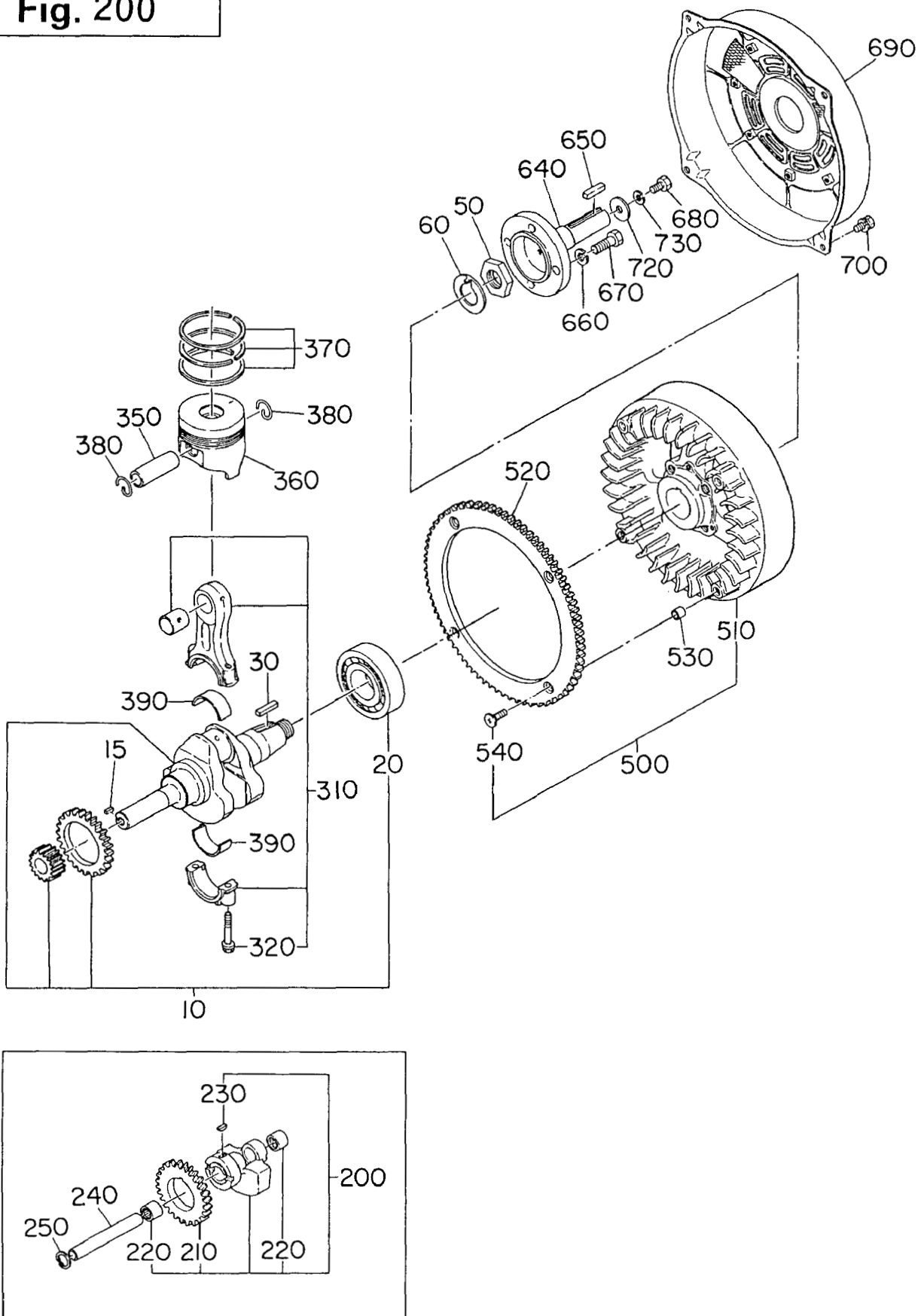
CRANKCASE GROUP

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
320	228-15803-03	MAIN BEARING 0.50MM	1	UNDER SIZE 0.50	-			100
325	040-11200-30	PLUG	1		-			100
330	003-70120-00	GASKET, ALUMINUM	1		-			100
340	228-64301-00	OIL FILTER AY	1		-			100
345	980-05060-10	BOLT & WASHER AY	2		-			100
350	024-03000-10	O RING	1		-			100
360	228-63610-01	OIL GAUGE CP	1		-			100
370	014-90600-70	ADJUSTING SCREW	1		-			100
375	002-18060-00	NUT	1		-			100
380	041-12200-10	BLIND PLUG	1		-			100
400	228-92104-03	LABEL(OPERATION)	1		-			100
510	228-12401-12	CYLINDER UN	1		-			100
520	229-15011-03	O RING(CYLINDER)	1		-			100
610	228-13110-11	CYLINDER HEAD CP	1		-			100
620	228-15010-03	GASKET(ROCKER COVER)	1		-			100
630	228-17001-03	ROCKER COVER	1		-			100
640	228-15012-13	SPACER, CYLINDER 0.1	1	T=0.1 SELECTIVE AY	-			100
	228-15013-13	SPACER, CYLINDER 0.2	1	T=0.2 SELECTIVE AY	-			100
650	001-31062-51	STUD	2		-			100
651	980-30110-70	WASHER(11.5X23X4)	4		-	803011070		100
652	018-01000-11	FLANGE NUT	4		-			100
660	010-50601-50	STUD	2		-			100
670	001-37082-01	STUD	6		-			100
700	001-13064-00	BOLT AND WASHER AY	3		-			100
780	024-01300-10	O RING	1		-			100
860	228-15009-23	GASKET(BREATHER)	1		-			100
870	228-15301-01	BREATHER PLATE CP	1		-			100
960	228-99001-07	GASKET SET	1		-			100

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DY300YD0000 EX. R/A-STD(RE)

Fig. 200



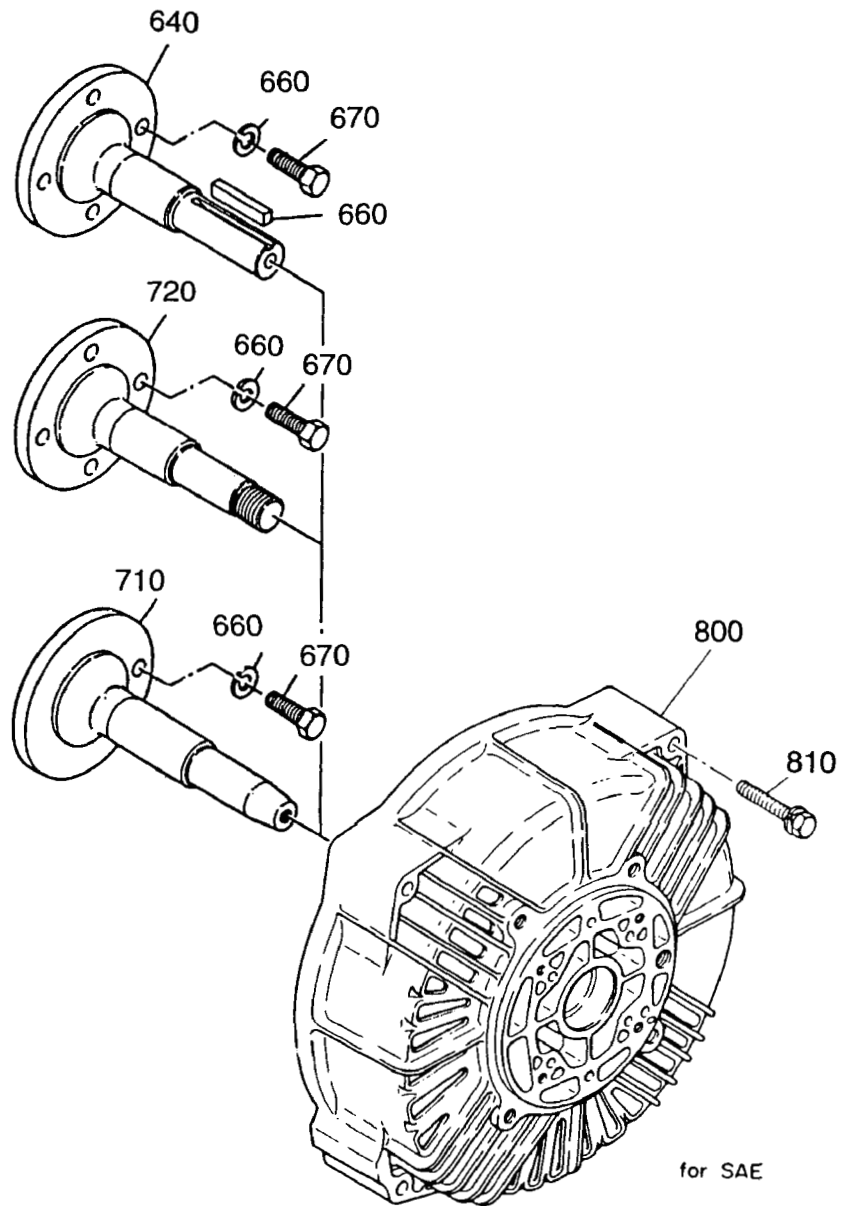
CRANKSHAFT, PISTON

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-20402-01	CRANK SHAFT CP	1		-			200
15	005-30040-81	KEY	1		-			200
20	060-04000-30	BALL BEARING	1	BB6308C3	-			200
30	005-30072-01	KEY	1		-			200
50	017-32600-10	LOCK NUT	1		-			200
60	020-52600-12	LOCK WASHER	1		-			200
200	228-24301-11	BALANCER CP	1		-			200
210	228-24202-03	BALANCER GEAR 2	1		-			200
220	061-01500-10	NEEDLE BEARING	2		-			200
230	005-32042-01	WOODRUFF KEY	1		-			200
240	228-24101-03	BALANCER SHAFT	1		-			200
250	003-14150-00	SNAPRING(INNER)	1		-			200
310	228-22501-00	CONNECTING ROD AY	1		-	228-22501-10		200
320	228-23001-03	CONNECTING ROD BOLT	2		-			200
350	228-23301-03	PISTON PIN	1		-			200
360	228-23401-33	PISTON	1	STD	-			200
	228-23402-33	PISTON	1	OVER SIZE 0.25	-			200
	228-23403-33	PISTON 0.5	1	OVER SIZE 0.50	-			200
370	228-23501-07	PISTON RING SET	1	STD.	-			200
	228-23502-07	PISTON RING SET 0.25	1	OVER SIZE 0.25	-			200
	228-23503-07	PISTON RING SET 0.50	1	OVER SIZE 0.50	-			200
380	056-52100-10	CRIP	2		-			200
390	228-22801-13	LARGE END BEARING	2	STD	-			200
	228-22802-13	LARGE END BEARING	2	UNDER SIZE 0.25	-			200
	228-22803-13	LARGE END BEARING	2	UNDER SIZE 0.50	-			200
510	228-22420-23	FLYWHEEL	1		-			200
640	228-24406-03	DRIVING SHAFT	1		-			200
650	207-26001-03	KEY	1		-			200
660	003-20100-00	SPRING WASHER	4		-			200
670	001-67103-00	BOLT	4		-			200
690	228-25501-11	FLYWHEEL COVER CP	1		-			200
700	001-13081-60	BOLT & WASHER AY	4		-			200
710	228-24407-03	DRIVING SHAFT	1	FOR GENERATOR	-			201
720	228-24408-03	DRIVING SHAFT	1	FOR PUMP	-			201
800	228-17911-23	ADAPTER	1		-			201
810	001-13086-00	BOLT & WASHER AY	4		-			201

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DY300YD0000 EX. R/A-STD (RE)

Fig. 201



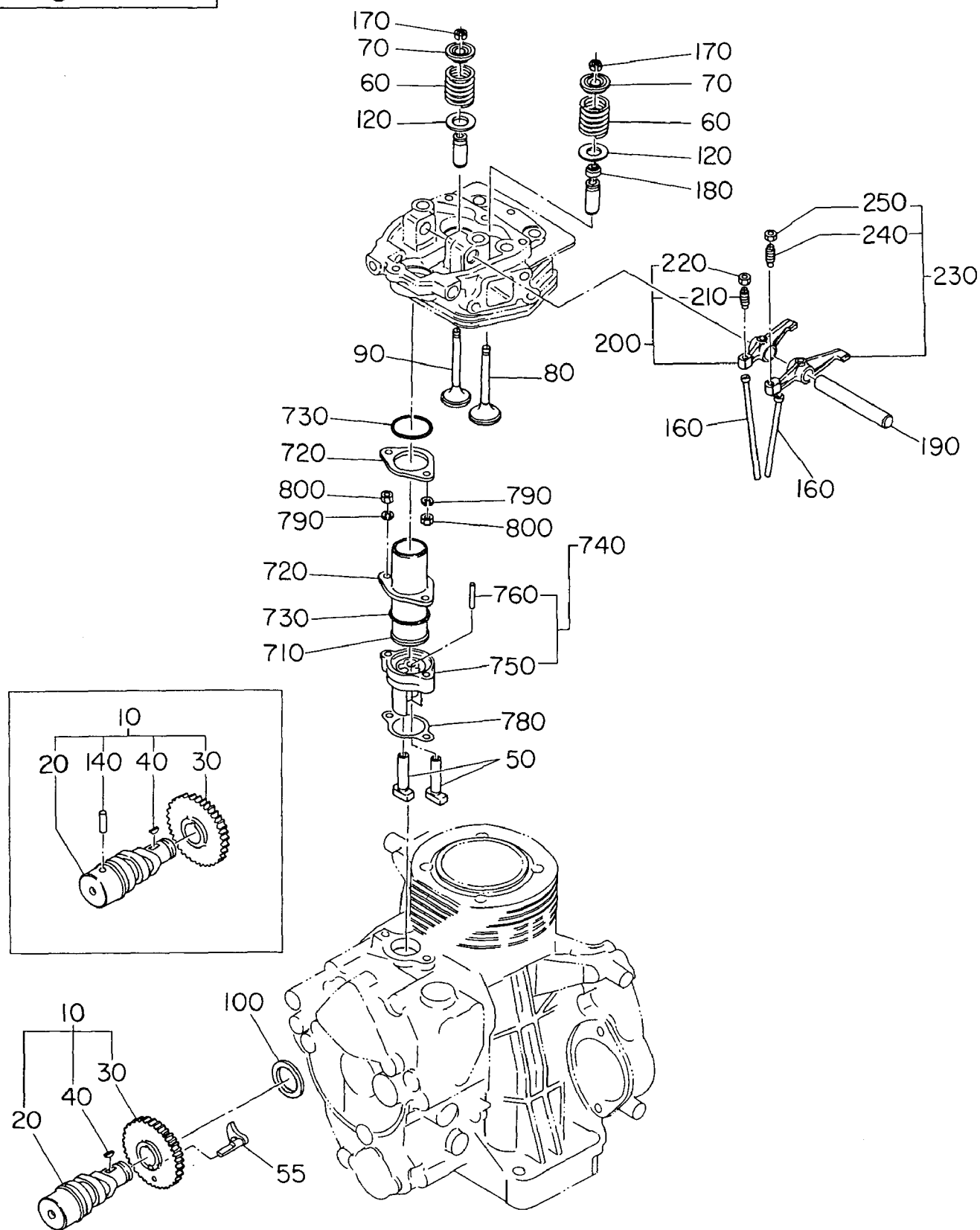
CRANKSHAFT, PISTON

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-20402-01	CRANK SHAFT CP	1		-			200
15	005-30040-81	KEY	1		-			200
20	060-04000-30	BALL BEARING	1	BB6308C3	-			200
30	005-30072-01	KEY	1		-			200
50	017-32600-10	LOCK NUT	1		-			200
60	020-52600-12	LOCK WASHER	1		-			200
200	228-24301-11	BALANCER CP	1		-			200
210	228-24202-03	BALANCER GEAR 2	1		-			200
220	061-01500-10	NEEDLE BEARING	2		-			200
230	005-32042-01	WOODRUFF KEY	1		-			200
240	228-24101-03	BALANCER SHAFT	1		-			200
250	003-14150-00	SNAPRING(INNER)	1		-			200
310	228-22501-00	CONNECTING ROD AY	1		-	228-22501-10		200
320	228-23001-03	CONNECTING ROD BOLT	2		-			200
350	228-23301-03	PISTON PIN	1		-			200
360	228-23401-33	PISTON	1	STD	-			200
	228-23402-33	PISTON	1	OVER SIZE 0.25	-			200
	228-23403-33	PISTON 0.5	1	OVER SIZE 0.50	-			200
370	228-23501-07	PISTON RING SET	1	STD.	-			200
	228-23502-07	PISTON RING SET 0.25	1	OVER SIZE 0.25	-			200
	228-23503-07	PISTON RING SET 0.50	1	OVER SIZE 0.50	-			200
380	056-52100-10	CRIP	2		-			200
390	228-22801-13	LARGE END BEARING	2	STD	-			200
	228-22802-13	LARGE END BEARING	2	UNDER SIZE 0.25	-			200
	228-22803-13	LARGE END BEARING	2	UNDER SIZE 0.50	-			200
510	228-22420-23	FLYWHEEL	1		-			200
640	228-24406-03	DRIVING SHAFT	1		-			200
650	207-26001-03	KEY	1		-			200
660	003-20100-00	SPRING WASHER	4		-			200
670	001-67103-00	BOLT	4		-			200
690	228-25501-11	FLYWHEEL COVER CP	1		-			200
700	001-13081-60	BOLT & WASHER AY	4		-			200
710	228-24407-03	DRIVING SHAFT	1	FOR GENERATOR	-			201
720	228-24408-03	DRIVING SHAFT	1	FOR PUMP	-			201
800	228-17911-23	ADAPTER	1		-			201
810	001-13086-00	BOLT & WASHER AY	4		-			201

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DY300YD0000 EX, R/A-STD (RE)

Fig. 300



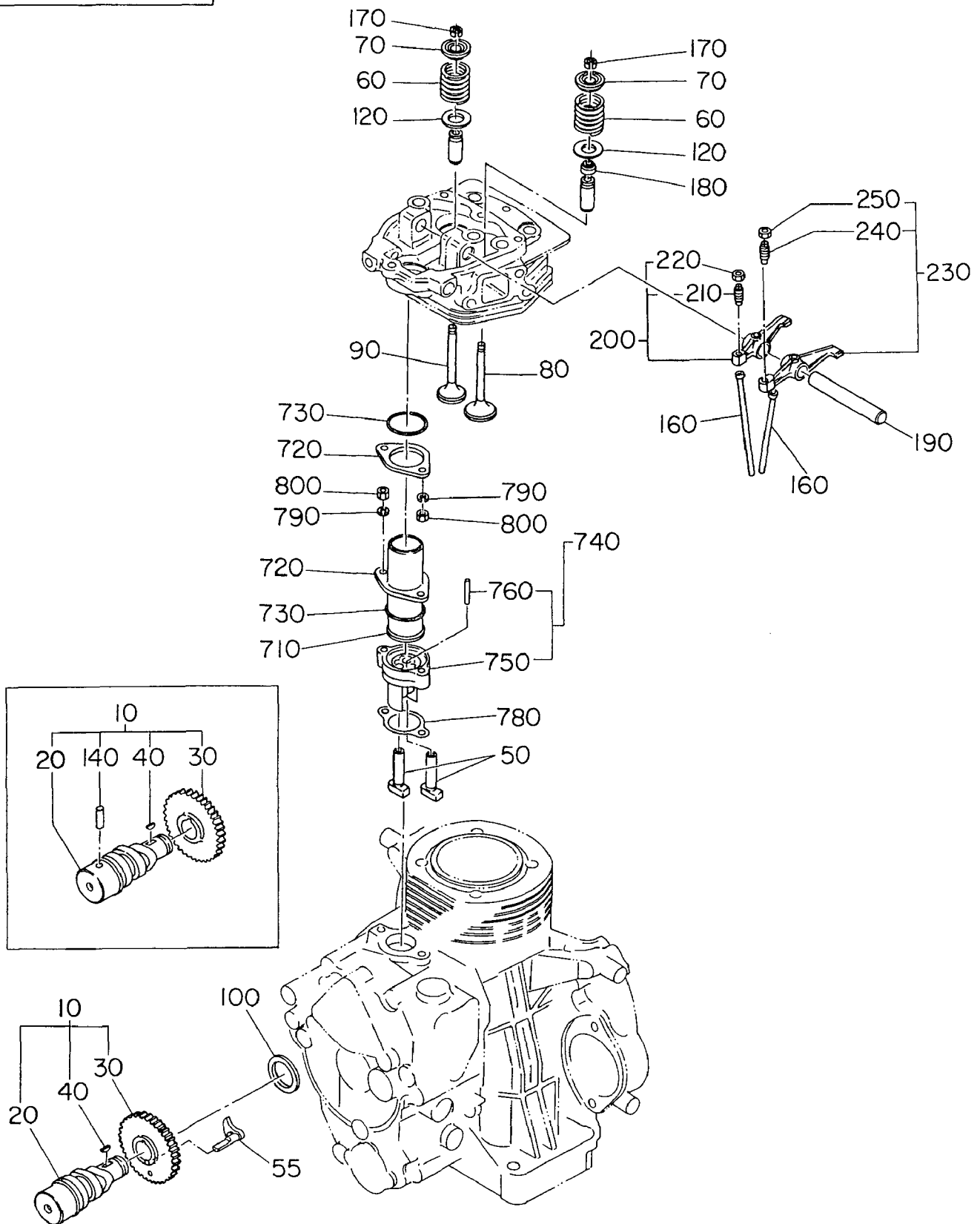
INTAKE, EXHAUST

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-31604-00	CAMSHAFT AY	1		-			300
20	228-31604-01	CAMSHAFT CP	1		-			300
30	228-33222-01	CAMSHAFT GEAR CP	1		-			300
40	005-32042-01	WOODRUFF KEY	1		-			300
50	228-33301-03	TAPPET	2		-			300
55	228-35561-03	RELEASE LEVER	1		-			300
60	228-33601-03	VALVE SPRING	2		-			300
70	228-33701-03	SPRING RETAINER	2		-			300
80	228-33401-13	INTAKE VALVE	1		-			300
90	228-33501-03	EXHAUST VALVE	1		-			300
100	023-02000-20	SPACER	1	T=0.8 SELECTIVE AY	-			300
	023-02000-30	SPACER	1	T=1.0 SELECTIVE AY	-			300
	023-02000-40	SPACER	1	T=1.2 SELECTIVE AY	-			300
160	228-35005-03	PUSH ROD	2		-			300
170	228-33801-03	RETAINER LOCK	4		-			300
180	228-35003-03	VALVE STEM SEAL	1		-			300
190	228-35004-03	ROCKER SHAFT	1		-			300
200	228-36201-01	EXHAUST ROCKERARM CP	1		-			300
210	014-90600-80	ADJUSTING SCREW	1		-			300
220	017-00600-80	NUT	1		-			300
230	228-36401-01	INTAKE ROCKER ARM CP	1		-	228-36301-01		300
240	014-90600-80	ADJUSTING SCREW	1		-			300
250	017-00600-80	NUT	1		-			300
310	228-30105-01	MUFFLER CP	1		-			300
320	228-34201-11	MUFFLER COVER CP	1		-			300
340	228-35006-03	GASKET(MUFFLER)	2		-			300
350	002-18080-00	NUT	2		-			300
355	002-19080-00	NUT	2		-			300
360	011-00600-10	FLANGE BOLT	4		-			300
380	003-20080-00	SPRING WASHER	4		-			300
510	228-32801-00	AIR CLEANER AY	1		-			300
- 7	228-32805-08	PACKING	1		-			300
520	228-32803-08	ELEMENT	1		-			300
530	228-32802-08	ELEMENT	1		-	228-32801-07		300
550	228-92306-03	LABEL(AIR CLEANER)	1		-			300
710	228-35603-11	PUSH ROD SLEEVE	1		-			300

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DY300YD0000 EX. R/A-STD(RE)

Fig. 300



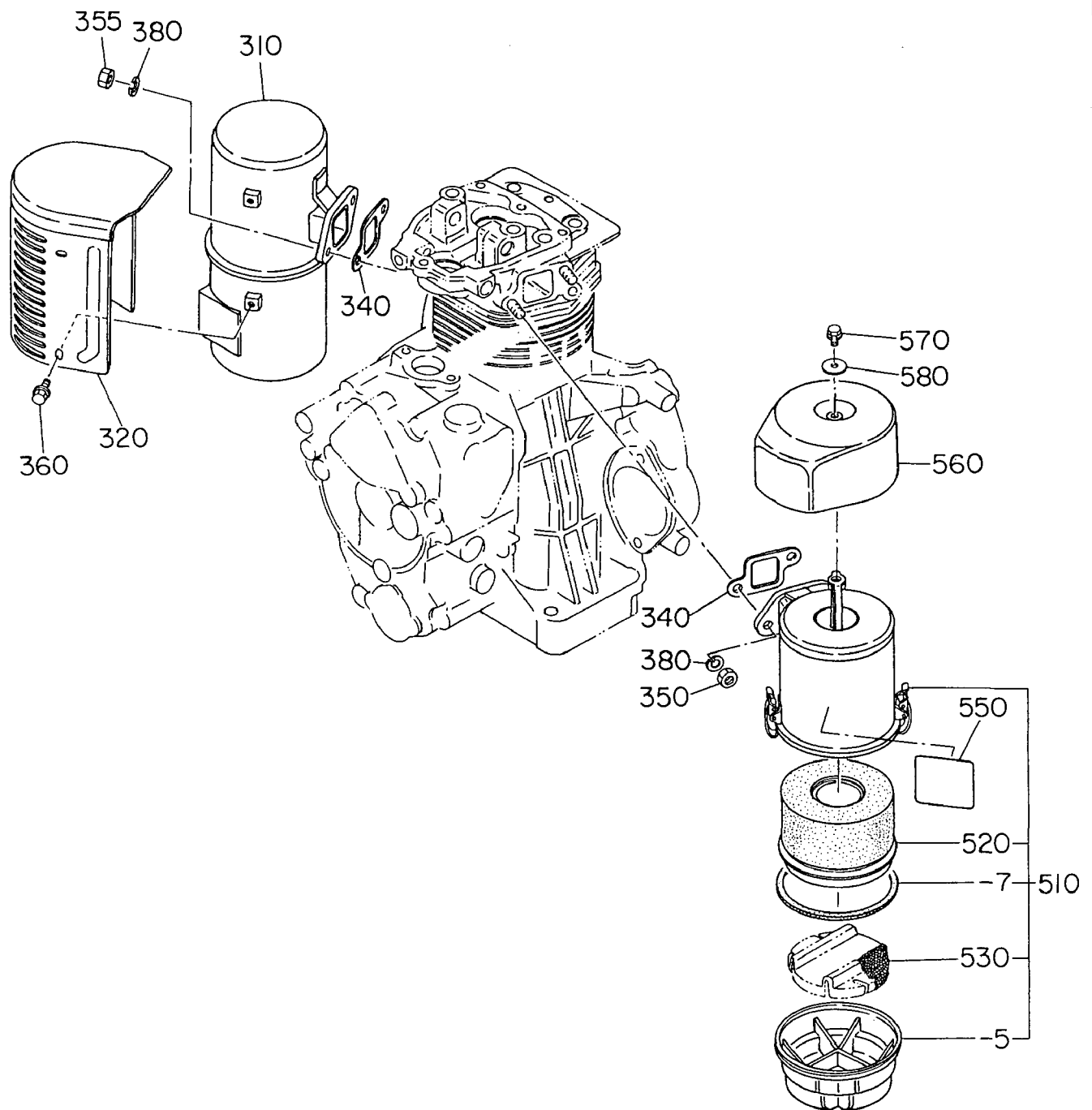
INTAKE, EXHAUST

[illegible]

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DY300YD0000 EX, R/A-STD (RE)

Fig. 300



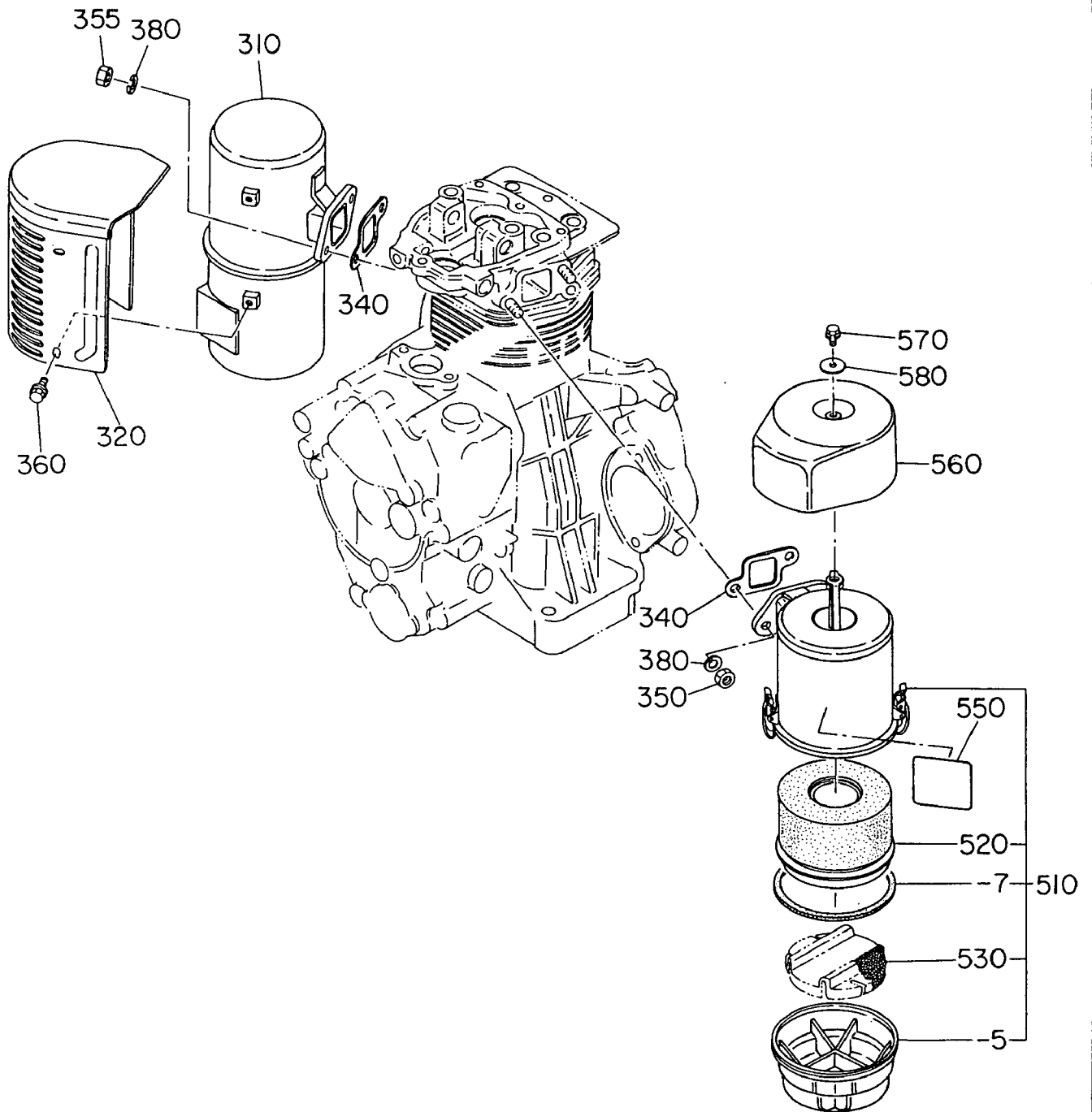
INTAKE, EXHAUST

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-31604-00	CAMSHAFT AY	1		-			300
20	228-31604-01	CAMSHAFT CP	1		-			300
30	228-33222-01	CAMSHAFT GEAR CP	1		-			300
40	005-32042-01	WOODRUFF KEY	1		-			300
50	228-33301-03	TAPPET	2		-			300
55	228-35561-03	RELEASE LEVER	1		-			300
60	228-33601-03	VALVE SPRING	2		-			300
70	228-33701-03	SPRING RETAINER	2		-			300
80	228-33401-13	INTAKE VALVE	1		-			300
90	228-33501-03	EXHAUST VALVE	1		-			300
100	023-02000-20	SPACER	1	T=0.8 SELECTIVE AY	-			300
	023-02000-30	SPACER	1	T=1.0 SELECTIVE AY	-			300
	023-02000-40	SPACER	1	T=1.2 SELECTIVE AY	-			300
160	228-35005-03	PUSH ROD	2		-			300
170	228-33801-03	RETAINER LOCK	4		-			300
180	228-35003-03	VALVE STEM SEAL	1		-			300
190	228-35004-03	ROCKER SHAFT	1		-			300
200	228-36201-01	EXHAUST ROCKERARM CP	1		-			300
210	014-90600-80	ADJUSTING SCREW	1		-			300
220	017-00600-80	NUT	1		-			300
230	228-36401-01	INTAKE ROCKER ARM CP	1		-	228-36301-01		300
240	014-90600-80	ADJUSTING SCREW	1		-			300
250	017-00600-80	NUT	1		-			300
310	228-30105-01	MUFFLER CP	1		-			300
320	228-34201-11	MUFFLER COVER CP	1		-			300
340	228-35006-03	GASKET(MUFFLER)	2		-			300
350	002-18080-00	NUT	2		-			300
355	002-19080-00	NUT	2		-			300
360	011-00600-10	FLANGE BOLT	4		-			300
380	003-20080-00	SPRING WASHER	4		-			300
510	228-32801-00	AIR CLEANER AY	1		-			300
- 7	228-32805-08	PACKING	1		-			300
520	228-32803-08	ELEMENT	1		-			300
530	228-32802-08	ELEMENT	1		-	228-32801-07		300
550	228-92306-03	LABEL(AIR CLEANER)	1		-			300
710	228-35603-11	PUSH ROD SLEEVE	1		-			300

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DY300YD0000 EX, R/A-STD(RE)

Fig. 300



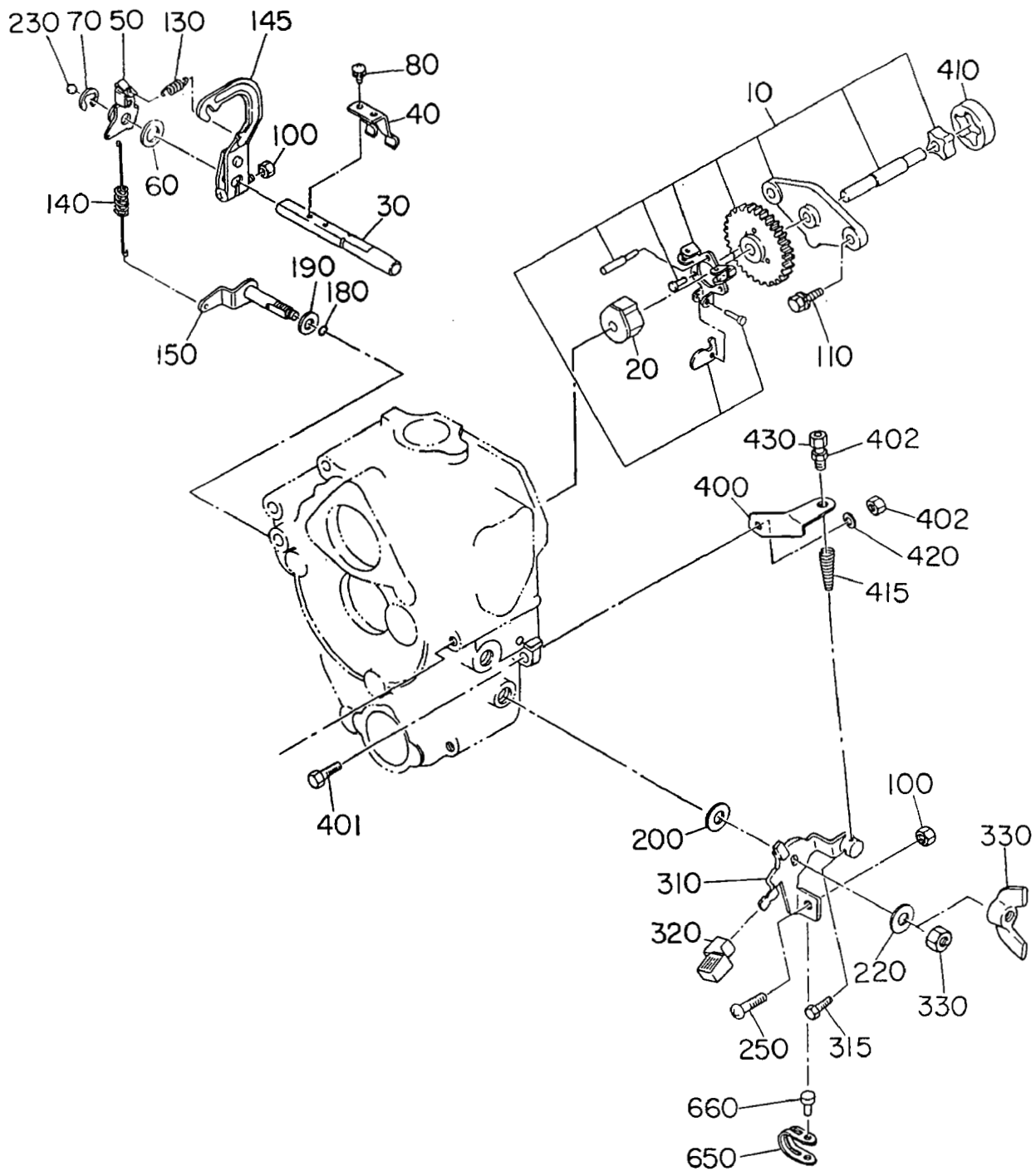
INTAKE, EXHAUST

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DY300YD0000 EX, R/A-STD (RE)

Fig. 400



GOVERNOR. OPERATION

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-41701-30	GOVERNOR PLATE AY	1		-			400
20	228-41910-01	GOVERNOR SLEEVE CP	1		-			400
30	228-42201-03	GOVERNOR SHAFT	1		-			400
40	228-42101-23	GOVERNOR YOKE	1		-			400
50	228-42302-03	GOVERNOR LEVER 1	1		-			400
60	003-10100-00	WASHER	1		-			400
70	003-13080-00	CLIP	1		-			400
80	004-35051-20	SCREW AND WASHER AY	2		-			400
100	002-18060-00	NUT	2		-			400
110	001-13062-00	BOLT AND WASHER AY	2		-			400
130	228-45001-33	START SPRING	1		-			400
140	228-42501-23	GOVERNOR SPRING	1		-			400
145	228-42310-02	GOVERNOR LEVER 2 UN	1		-			400
150	228-42904-02	CONTROL LINK UN	1		-			400
180	006-26100-50	O RING	1		-			400
190	023-00800-10	SPACER	1		-			400
200	021-70800-10	FRICTION WASHER	1		-			400
210	020-00800-10	WASHER	1		-			400
220	020-00800-50	WASHER	1		-			400
230	045-00600-10	STEEL BALL	1		-			400
250	004-31063-50	SCREW	1		-			400
310	228-43311-11	SPEED CONTROL 1 CP	1		-			400
315	011-50500-10	BOLT	1		-			400
320	228-45003-03	KNOB	1		-			400
330	017-90800-12	WING NUT	1		-			400
400	228-44201-01	WIRE BRACKET 1	1		-			400
401	001-65061-60	BOLT	1		-			400
402	002-18060-00	NUT	1		-			400
410	228-63902-03	OIL PUMP(OUTER)	1		-			400
415	228-46002-11	RETURN SPRING CP	1		-			400
420	003-20060-00	SPRING WASHER	1		-			400
430	014-90600-40	ADJUSTING SCREW	1		-			400
650	228-45004-03	LOCK PLATE	1		-			400
660	033-00500-10	RIVET	1		-			400

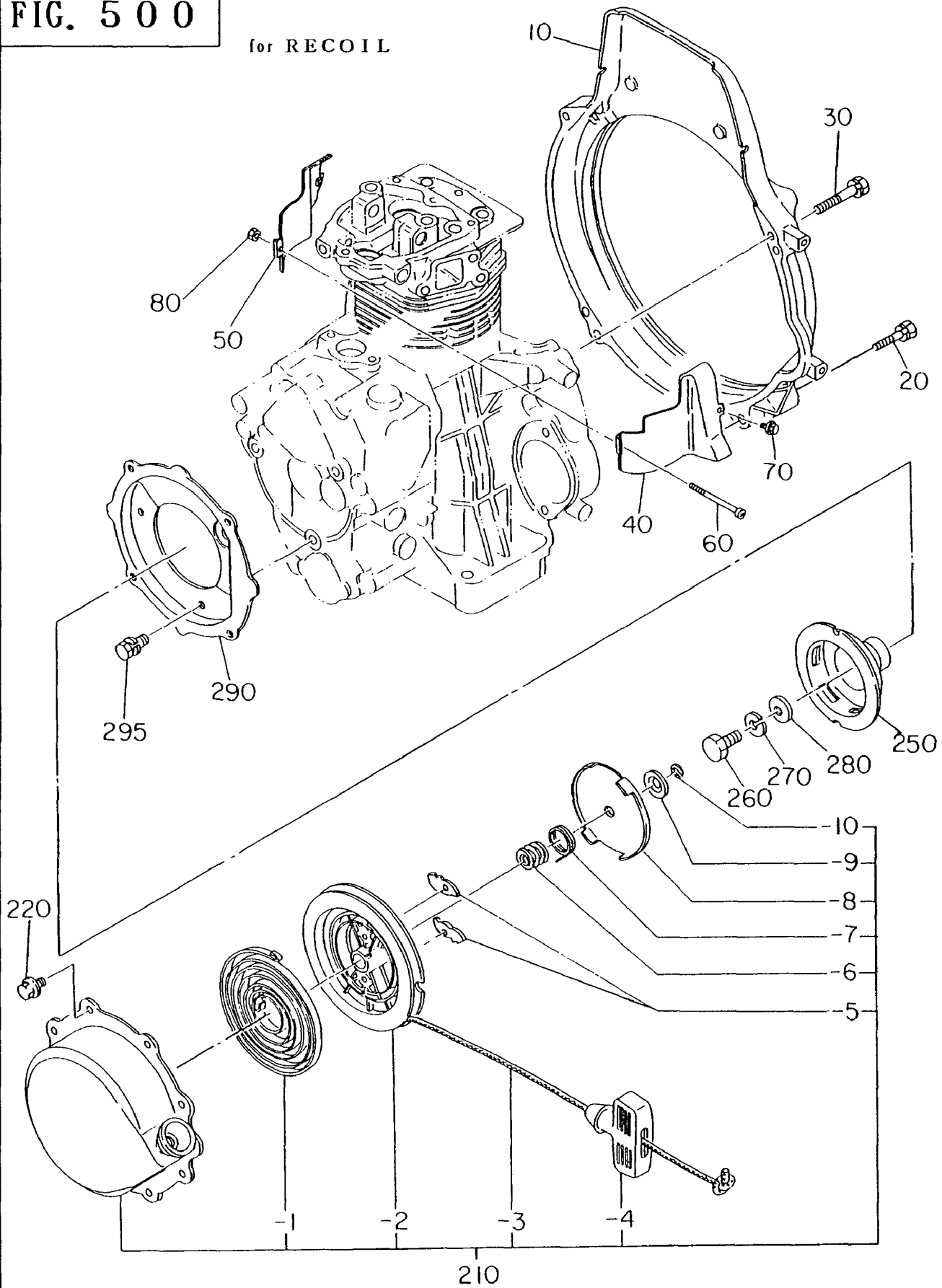
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DY300YD0000 EX, R/A-STD(RE)

COOLING, STARTING GROUP

FIG. 500

for RECOIL



DY30

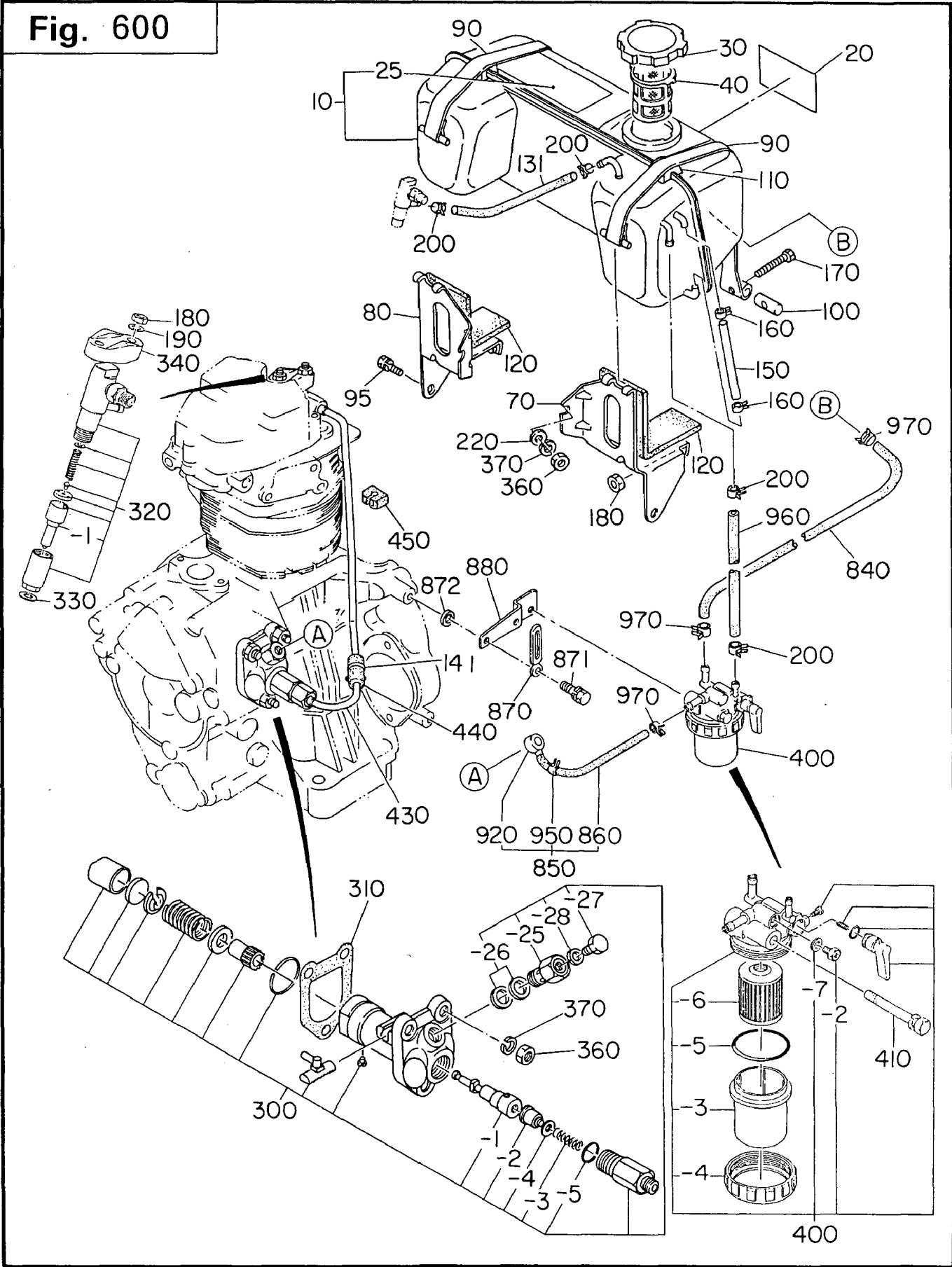
COOLING, STARTING

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DY300YD0000 EX, R/A-STD (RE)

Fig. 600



FUEL, LUBRICANT

REF.	PART NUMBER	PART NAME	QTY	REMARKS	CODE NO. FROM-TO	INTERCHANGEABLE PART NUMBER	UNIT PRICE	FIG.
10	228-60102-41	FUEL TANK CP	1		-			600
20	228-91712-03	LABEL (TRADE MARK)	1		-			600
25	228-91908-03	LABEL (INSTRUCTION)	1		-			600
30	043-04300-15	FUEL TANK CAP CP	1		-			600
40	064-13600-10	FUEL FILTER	1		-			600
70	228-61601-11	TANK BRACKET 1 CP	1		-			600
80	228-61701-11	TANK BRACKET 2 CP	1		-			600
90	228-65510-01	TANK BAND CP	2		-			600
95	001-13082-00	BOLT & WASHER AY	2		-			600
100	228-65601-11	PIN CP, TANK BAND	2		-			600
110	228-65001-13	BAND GUIDE	2		-			600
120	228-65002-03	FELT	2		-			600
131	085-14500-00	RUBBER PIPE	1	4.5X9XM	-			600
150	085-00500-00	VINYL PIPE	1	5X8XM	-			600
160	056-10800-10	HOSE CLAMP	2		-			600
170	001-66064-50	BOLT	2		-			600
180	002-18060-00	NUT	2		-			600
190	002-38060-00	FLANGE NUT	2		-			600
200	056-10800-10	HOSE CLAMP	4		-			600
220	003-10080-00	WASHER	2		-			600
300	228-63101-00	INJECTION PUMP AY	1		-			600
- 1	228-63102-08	PLUNGER AY	1		-			600
- 2	228-63103-08	DELIVERY VALVE	1		-			600
- 3	222-63104-08	SPRING DELIVERY VALV	1		-			600
- 4	222-63105-08	GASKET	1		-			600
- 5	228-63105-08	O RING	1		-			600
- 25	228-63112-08	BOLT	1		-			600
- 26	222-63116-08	GASKET	2		-			600
- 27	228-63113-08	BOLT	1		-			600
- 28	211-63212-08	GASKET 50623-180	1		-			600
310	228-65017-03	GASKET (INJ. PUMP)	1	T=0.1 SELECTIVE AY	-			600
	228-65022-03	GASKET (INJ. PUMP)	1	T=0.2 SELECTIVE AY	-			600
	228-65018-03	GASKET (INJ. PUMP)	1	T=0.3 SELECTIVE AY	-			600
320	228-63201-10	NOZZLE AY	1		-			600
- 1	228-63211-08	NOZZLE	1		-			600
330	228-65004-03	GASKET (NOZZLE)	1		-			600

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Fig. 600

This technical drawing is an exploded view of a mechanical assembly, identified as Fig. 600. The assembly consists of several main components and sub-assemblies, each labeled with a numerical reference numeral. The components are shown in their relative positions as they would be assembled. Key parts include: a main housing (10) with a top cap (20) and a central valve (30, 40); a fuel tank (90) with a filler neck (110) and a vent line (131); a carburetor (180) with a float valve (190) and a jet (340); a fuel filter (400) with a housing (410) and a filter element (420); a fuel line (840) with various fittings (970, 960, 200); and a fuel distributor (300) with a fuel rail (310) and fuel injectors (320, 330). The diagram also shows various mounting brackets (80, 120, 150, 160, 170, 180, 220, 360, 370, 430, 440, 450, 870, 871, 880, 920, 950, 960, 970) and fasteners (screws, bolts, nuts, washers, O-rings, etc.) used to assemble the components. The assembly is shown in a perspective view, with the components arranged in a way that illustrates the overall structure and the flow of fuel from the tank through the filter and carburetor to the injectors.

FUEL, LUBRICANT

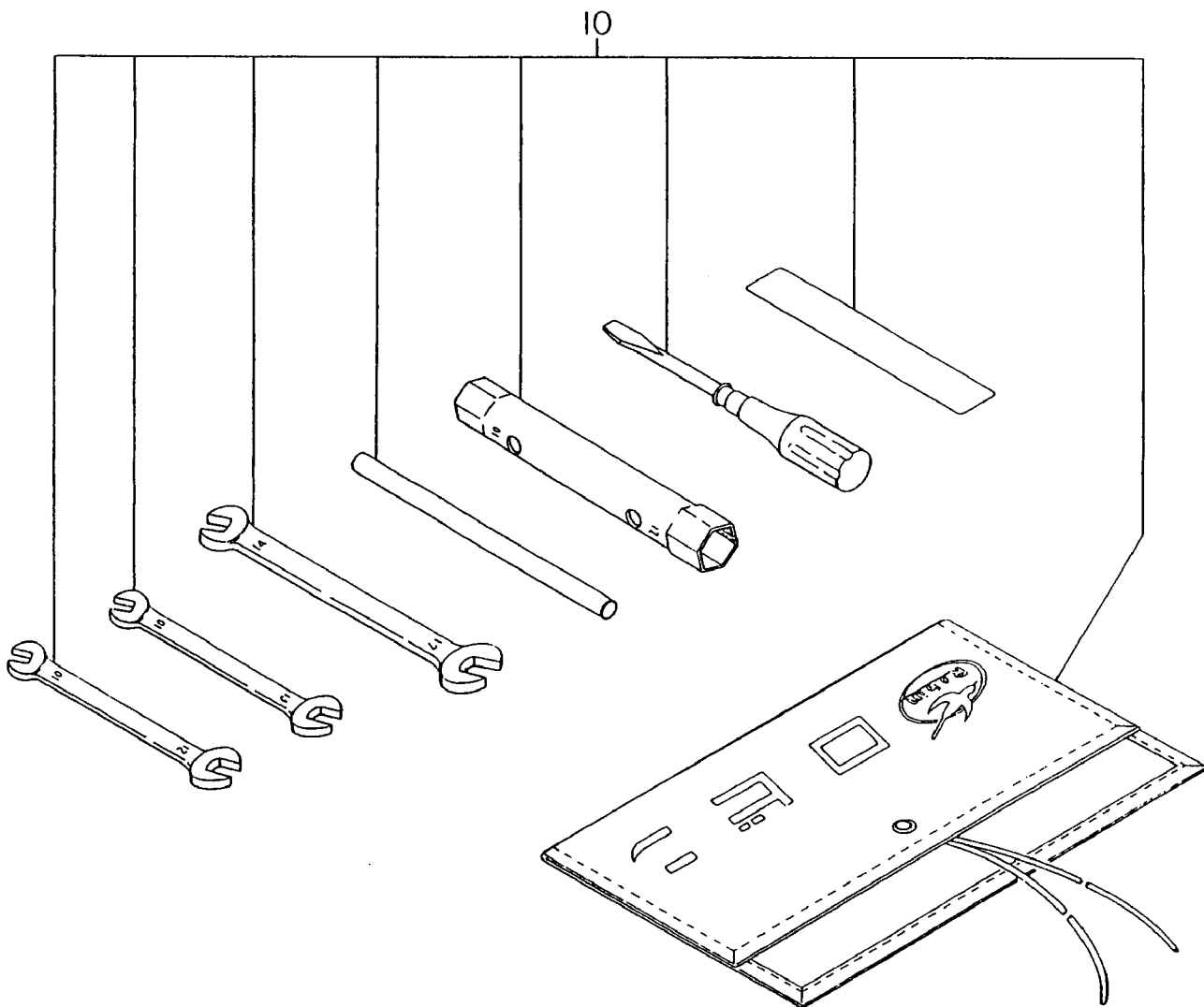
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DY300YD0000 EX, R/A-STD (RE)

ACCESSORIES, LABEL GROUP

FIG. 9 0 0



[illegible]

DY300YD0000 EX, R/A-STD (RE)

— NOTES —



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