

PARTS MANUAL

MODEL
EX40
Engine

EX400DE5050

09/15



SUBARU

Industrial Power Products

Subaru Industrial Power Products

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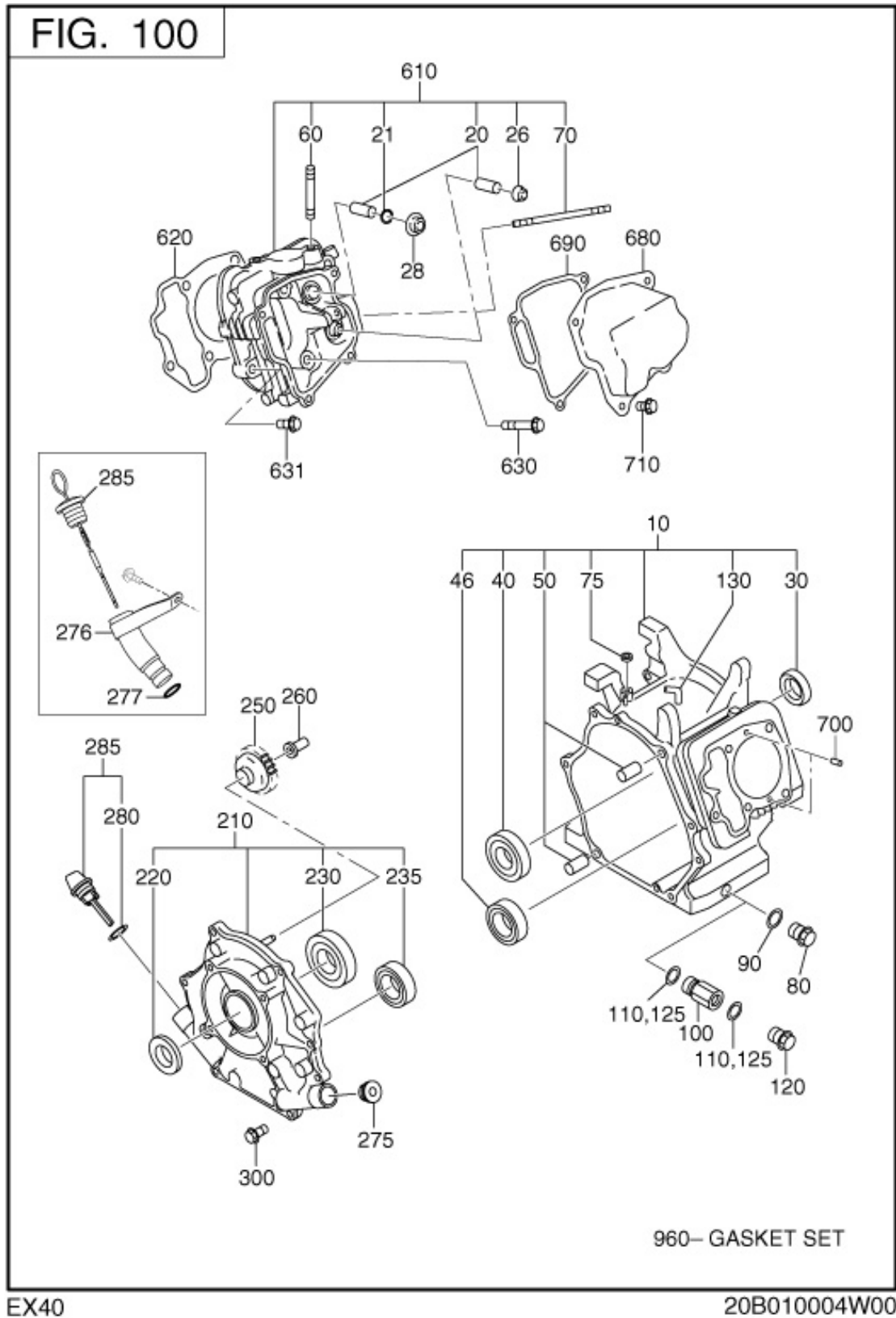
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100 Crankcase



100 Crankcase

Ref	Part Number.	Description	Qty	Remark
10	20B-10102-31	CRANK CASE CP	1	
20	20B-14202-03	VALVE GUIDE	2	
21	056-51000-50	CLIP ¹	1	
26	132-11AA1-10	SEAL-EXH VALVE	1	
28	263-35341-03	RETAINER PLATE ²	1	
30	044-03500-91	OIL SEAL ³	1	
40	X60-03502-40	BALL BEARING	1	
46	X60-01500-11	BALL BEARING	1	
50	277-15011-03	PIPE KNOCK ⁴	2	
60	010-50802-90	STUD ⁵	2	
70	010-50604-40	STUD	2	
75	044-00800-10	OIL SEAL ⁶	1	
80	040-11400-30	PLUG ⁷	2	
90	021-11400-20	GASKET ⁸	2	
210	20B-11002-21	MAINBEARING COVER CP	1	
220	044-03500-91	OIL SEAL ³	1	
230	X60-03502-40	BALL BEARING	1	
235	X60-01500-11	BALL BEARING	1	
250	20B-45003-11	GOVERNOR GEAR CP	1	
260	277-41902-01	GOVERNOR SLEEVE CP	1	
280	021-32000-50	GASKET ⁹	2	
285	279-63601-30	OIL GAUGE AY	2	

Footnotes

- 1:** 10.7DX0.9D
2: 11DX17.3DX27DX4.7H
3: 35DX48DX8B
4: 10.3DX8.5DX14L
5: M8X1.25X30L
6: 8DX14DX4B
7: M14X1.5X20DX12L
8: 14.1DX19DX2.3T
9: 20DX27DX1.5T RUBBER
10: M8X1.25X17DX38L
11: 8780-
12: -8779
13: M10X1.25X19DX75L
14: M8X1.25X16DX35L
15: 6DX14.8L
16: M6X1.0X14DX12L

100 Crankcase

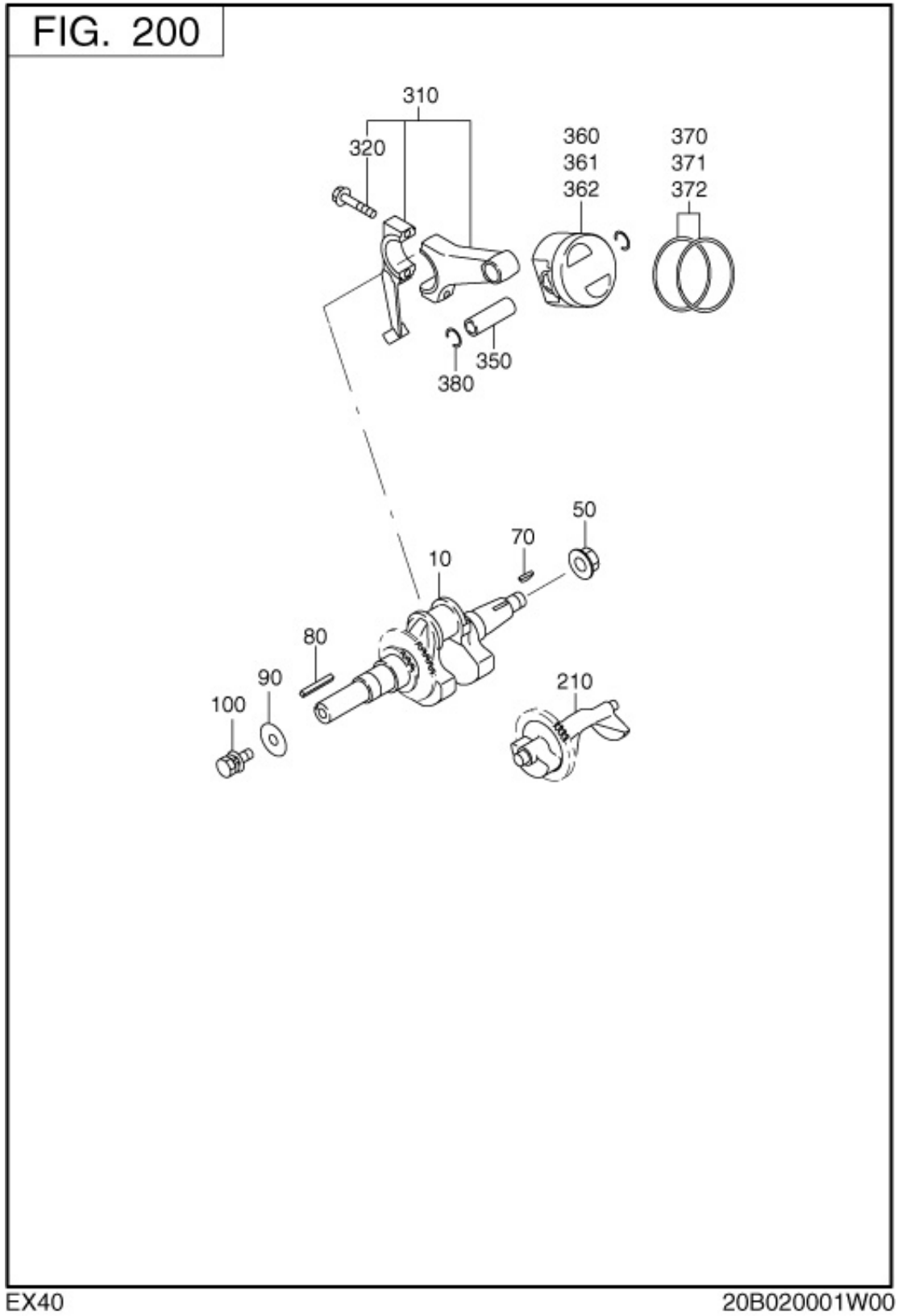
Ref	Part Number.	Description	Qty	Remark
300	011-00803-40	FLANGE BOLT ¹⁰	8	
610	20B-13002-00	CYLINDER HEAD AY	1	
620	20B-15001-23	GASKET(HEAD) ¹¹	1	
620	20B-15001-03	GASKET(HEAD) ¹²	1	
630	011-01000-40	FLANGE BOLT ¹³	4	
631	001-04083-50	FLANGE BOLT ¹⁴	2	
680	20B-15501-01	ROCKER COVER CP	1	
690	20B-16001-03	GASKET(ROCKER COVER)	1	
700	031-00600-10	DOWEL PIN ¹⁵	2	
710	011-00600-20	FLANGE BOLT ¹⁶	4	
960	20B-99001-27	GASKET SET	1	

Footnotes

- 1:** 10.7DX0.9D
2: 11DX17.3DX27DX4.7H
3: 35DX48DX8B
4: 10.3DX8.5DX14L
5: M8X1.25X30L
6: 8DX14DX4B
7: M14X1.5X20DX12L
8: 14.1DX19DX2.3T
9: 20DX27DX1.5T RUBBER
10: M8X1.25X17DX38L
11: 8780-
12: -8779
13: M10X1.25X19DX75L
14: M8X1.25X16DX35L
15: 6DX14.8L
16: M6X1.0X14DX12L

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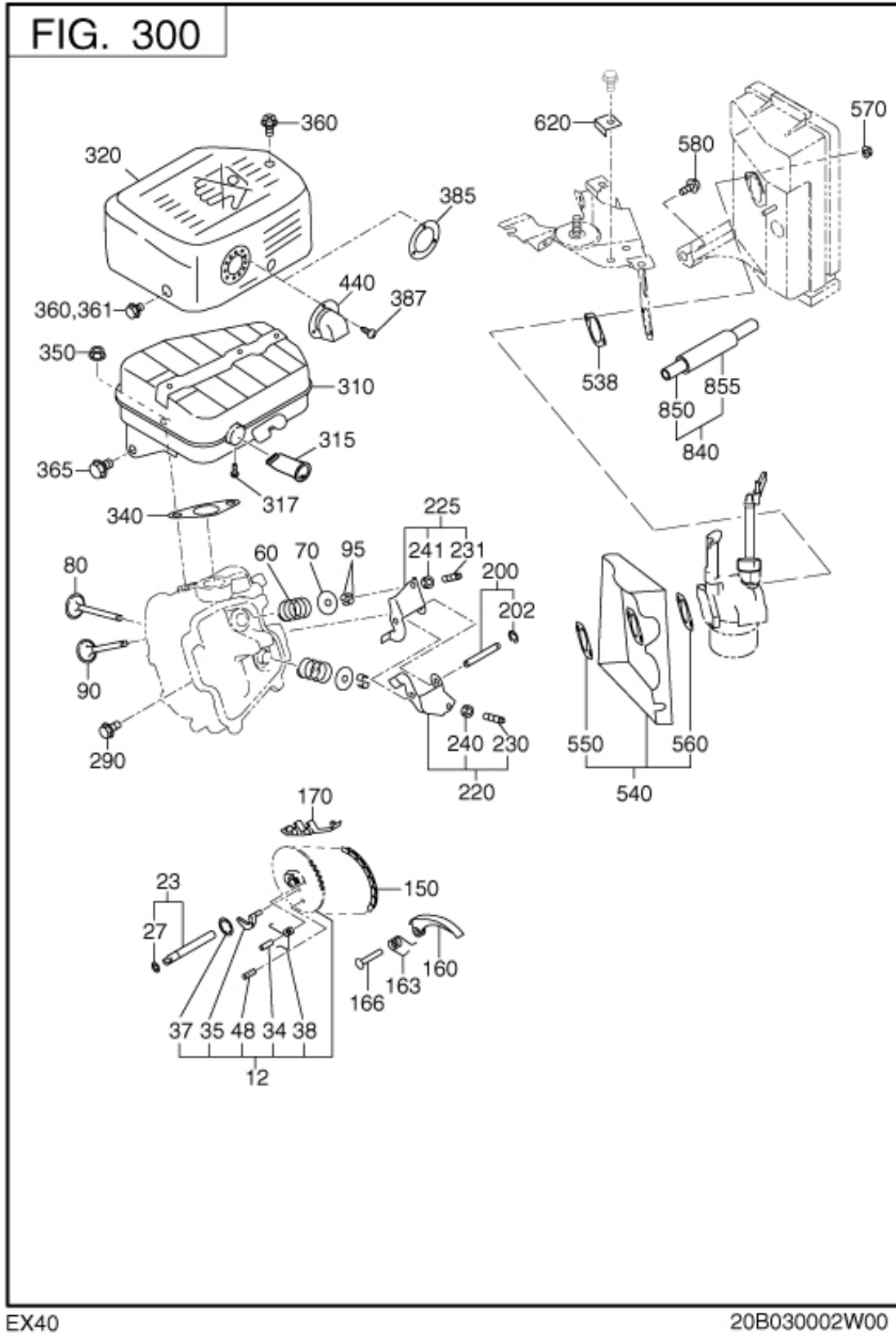
200 Crankshaft



200 Crankshaft

Ref	Part Number.	Description	Qty	Remark
10	20B-20901-11	CRANK SHAFT CP	1	
50	018-01800-10	FLANGE NUT ¹	1	
70	005-32054-01	WOODRUFF KEY ²	1	
80	207-26001-03	KEY ³	1	
210	20B-24101-03	BALANCER SHAFT	1	
310	20B-22501-00	CONNECTING ROD AY	1	
320	001-05084-00	FLANGE BOLT ⁴	2	
350	263-23301-33	PISTON PIN ⁵	1	
360	20B-23401-H3	PISTON ⁶	1	
361	20B-23403-H3	PISTON ⁷	1	
362	20B-23404-H3	PISTON ⁸	1	
370	20B-23501-07	PISTON RING SET ⁶	1	
371	20B-23502-07	PISTON RING SET ⁷	1	
372	20B-23503-07	PISTON RING SET ⁸	1	
380	056-52100-20	CLIP ⁹	2	
Footnotes				
1: M18X1.5X31DX14H 2: 5BX7.5HX19D 3: 6.3BX6.3HX40L 4: M8X1.25X16DX40L 5: 21DX15DX64.2L 6: STD 7: 0.25 O.S. 8: 0.50 O.S. 9: 22.1DX1.4D				

300 Intake & Exhaust



300 Intake & Exhaust

Ref	Part Number.	Description	Qty	Remark
12	20B-31601-10	CAMSHAFT AY	1	
23	20B-35101-21	PIN(CAM SHAFT)CP	1	
27	024-00700-21	O-RING	1	
34	005-19041-00	SPRING PIN ¹	1	
35	277-36401-03	RELEASE LEVER	1	
37	20B-36501-03	CLIP	1	
38	277-38702-03	RETURN SPRING ²	1	
48	031-80500-20	ROLL PIN	1	
60	246-33611-03	VALVE SPRING ³	2	
70	246-33711-13	SPRING RETAINER ⁴	2	
80	20B-33401-H3	INTAKE VALVE	1	
90	20B-33501-H3	EXHAUST VALVE	1	
95	246-35501-03	COLLET-VALVE	4	
150	20B-35601-H1	TIMING CHAIN CP	1	
160	277-36911-03	TENTIONER	1	
163	277-37101-03	SPRING(TENTIONER) ⁵	1	
166	277-36902-03	PIN(TENTIONER) ⁶	1	
170	277-36913-13	CHAIN GUIDE	1	
200	20B-35001-01	PIN(ROCKER)CP	1	
202	003-13060-00	CLIP ⁷	1	
220	20B-36101-00	ROCKER ARM(IN) AY	1	
225	20B-36102-10	ROCKER ARM(EX) AY	1	
230	014-90500-20	ADJUST SCREW ⁸	1	

Footnotes

- 1:** 4.4DX10LX0.8T
2: 5.1DX0.6DX4.4L N=7
3: 22.2DX2.9DX37L N=6.5
4: 7.6DX26DX8T
5: 10DX1.8DX14L N=4.5
6: 6DX13DX34L
7: 6DX12DX0.8T
8: M5X0.5X23L
9: M5X0.5X4.1H
10: M6X1.0X14DX8L
11: M8X1.25X17DX7.5H
12: M8X1.25X16DX12L
13: M4X6L
14: M6X1.0X13DX6H
15: M6X1.0X13DX16L

300 Intake & Exhaust

Ref	Part Number.	Description	Qty	Remark
231	014-90500-20	ADJUST SCREW ⁸	1	
240	017-00500-30	NUT ⁹	1	
241	017-00500-30	NUT ⁹	1	
290	011-00600-10	FLANGE BOLT ¹⁰	1	
310	20B-30101-J2	MUFFLER UN	1	
320	20B-34201-11	MUFFLER COVER CP	1	
340	20B-35201-03	GASKET(MUFFLER)	1	
350	002-38080-00	FLANGE NUT ¹¹	2	
360	011-00600-10	FLANGE BOLT ¹⁰	5	
365	011-00803-20	FLANGE BOLT ¹²	1	
385	267-37101-12	TAIL SCREEN UN	1	
387	015-00400-60	TAPPING SCREW ¹³	3	
538	20B-35903-13	GASKET 3	1	
540	20B-32901-J1	INSULATOR CP	1	
550	20B-35902-H3	GASKET 2	1	
560	20B-35901-H3	GASKET 1	1	
570	002-38060-00	FLANGE NUT ¹⁴	2	
580	001-04061-60	FLANGE BOLT ¹⁵	1	
620	20B-57101-03	COVER STAY(A/C)	1	
850	X85-11001-70	RUBBER PIPE	1	

Footnotes

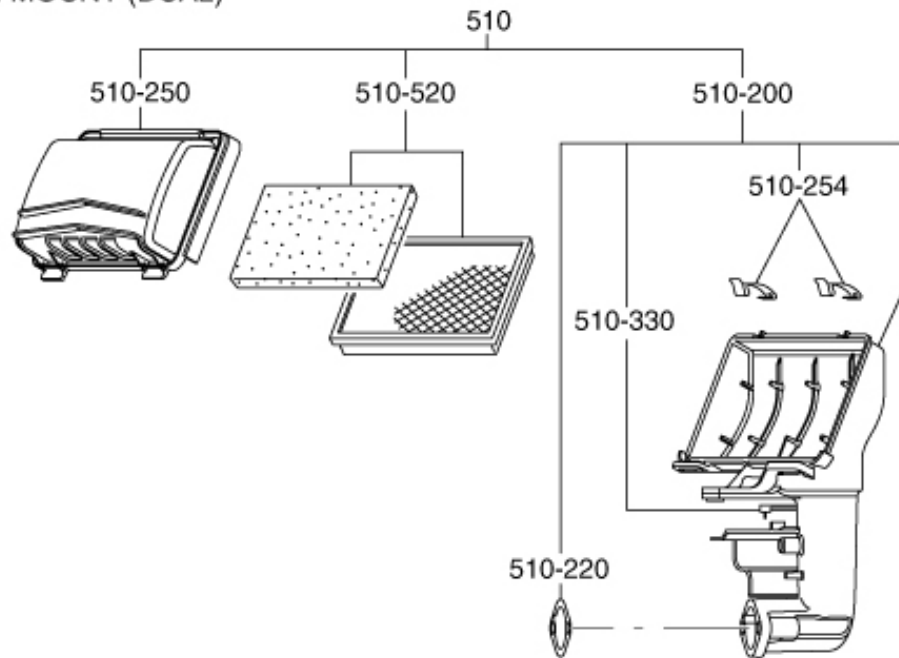
- 1:** 4.4DX10LX0.8T
2: 5.1DX0.6DX4.4L N=7
3: 22.2DX2.9DX37L N=6.5
4: 7.6DX26DX8T
5: 10DX1.8DX14L N=4.5
6: 6DX13DX34L
7: 6DX12DX0.8T
8: M5X0.5X23L
9: M5X0.5X4.1H
10: M6X1.0X14DX8L
11: M8X1.25X17DX7.5H
12: M8X1.25X16DX12L
13: M4X6L
14: M6X1.0X13DX6H
15: M6X1.0X13DX16L

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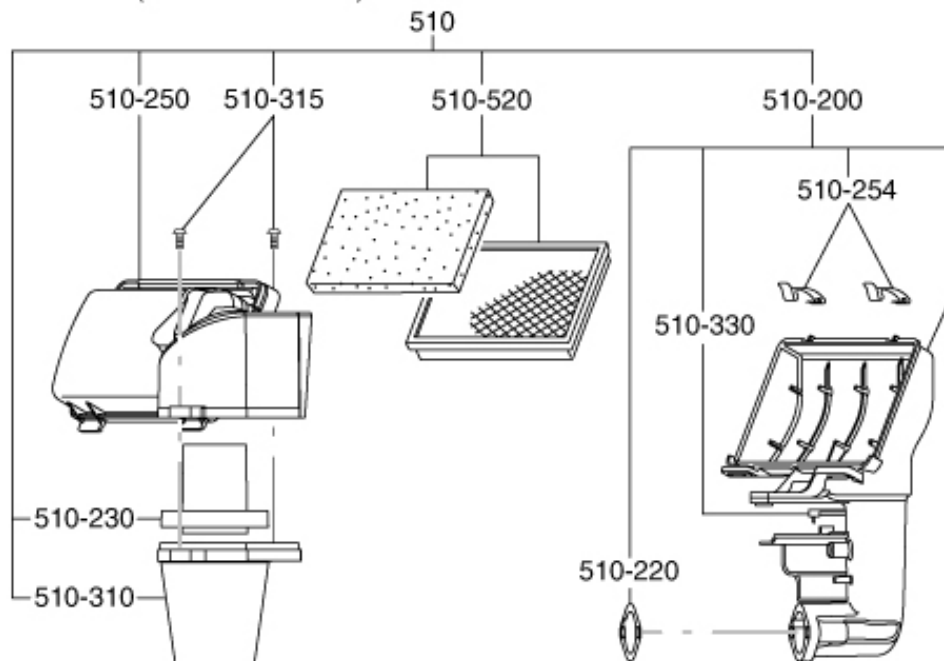
317 Intake & Exhaust

FIG. 317

HI MOUNT (DUAL)



HI MOUNT (PRE CYCLONE)



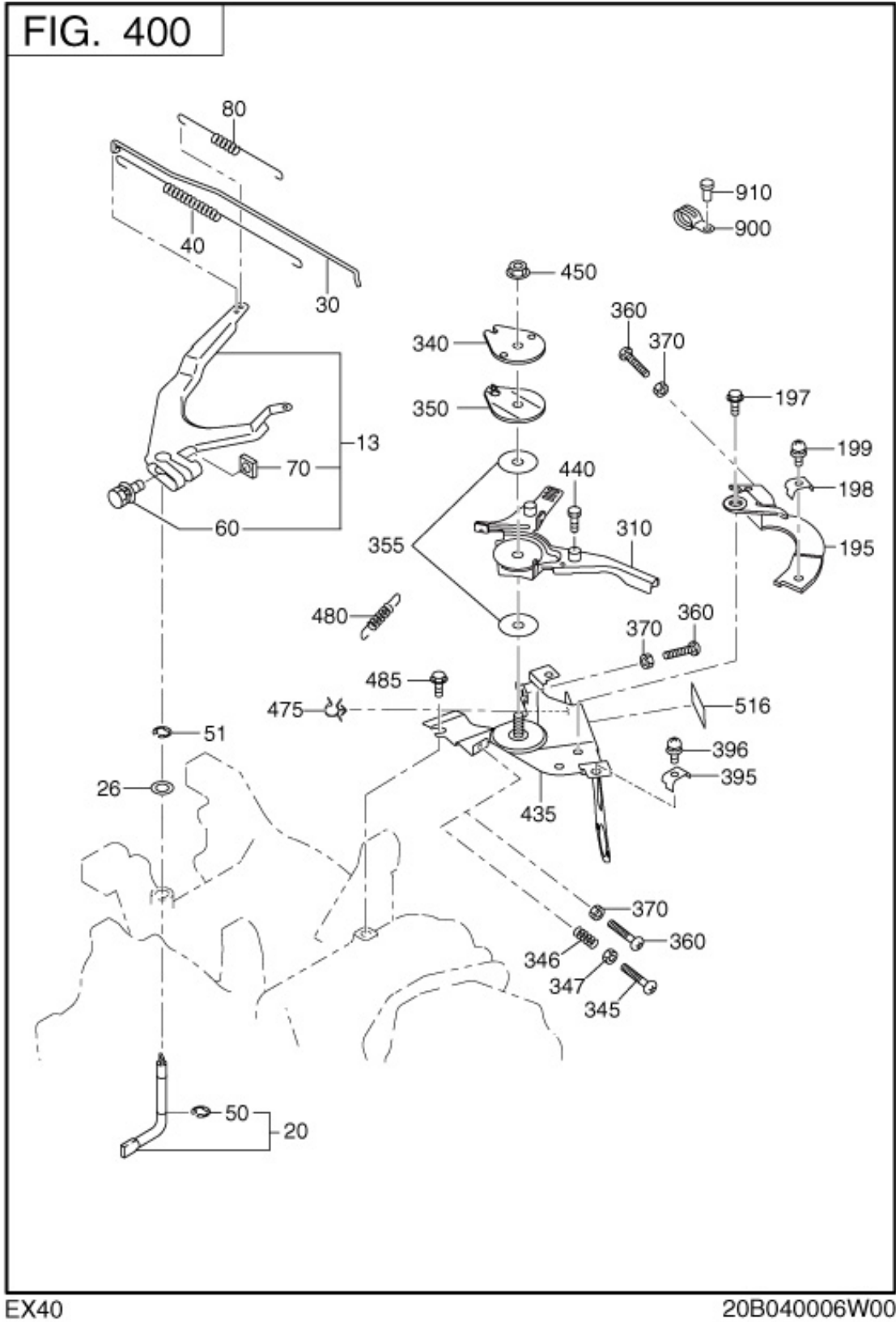
EX40

20B031701W00

317 Intake & Exhaust

Ref	Part Number.	Description	Qty	Remark
510	20B-32651-H0	AIR CLEANER AY ¹	1	
510-220	20B-32720-H8	PACKING	1	
510-250	20B-32641-H8	COVER	1	
510-254	20B-32680-H8	CLIP 1	2	
510-520	20B-32610-H7	ELEMENT AY	1	
Footnotes				
1: HI-MOUNT(DUAL)				

400 Governor



400 Governor

Ref	Part Number.	Description	Qty	Remark
13	20B-42301-10	GOVERNOR LEVER AY	1	
20	20B-42201-01	GOVERNOR SHAFT CP	1	
26	003-11080-00	WASHER ¹	1	
30	20B-42701-13	GOVERNOR ROD	1	
40	20B-42801-13	ROD SPRING	1	
50	003-13060-00	CLIP ²	1	
51	003-13060-00	CLIP ²	1	
60	001-14062-50	BOLT AND WASHER AY ³	1	
70	018-60600-20	NUT ⁴	1	
80	20B-42501-13	GOVERNOR SPRING	1	
310	20B-43301-01	SPEED CONT. LEVER CP	1	
340	227-43501-13	STOP PLATE	1	
350	227-45002-03	SPRING WASHER	1	
355	021-70600-30	FRICTION WASHER ⁵	2	
360	004-31061-80	SCREW ⁶	1	
370	002-27060-00	NUT ⁷	1	
395	277-43902-03	CLAMP	1	
396	013-10500-30	SCREW AND WASHER AY ⁸	1	
435	20B-46001-21	SPEED CONTROL BKT CP	1	
440	004-31040-80	SCREW ⁹	1	
450	002-35060-00	SELF LOCK NUT ¹⁰	1	
480	277-45103-03	RETURN SPRING ¹¹	1	
485	011-00600-20	FLANGE BOLT ¹²	1	
516	277-96107-03	LABEL(HI-LOW)	1	

Footnotes

- 1:** 8.5DX18DX1.6T
2: 6DX12DX0.8T
3: M6X1.0X25L W/W,SW
4: M6X1.0X4.9H SQUARE
5: 6.5DX33DX0.6T FIBER
6: M6X1.0X18L
7: M6X1.0X3.6H
8: M5X0.8X20L W/W,SW
9: M4X0.7X8L
10: M6X1.0X6.8H
11: 7DX0.7DX28L N=15
12: M6X1.0X14DX12L

FIG. 500

FIG. 500 is an exploded perspective view of a mechanical assembly. The main housing (10) is shown with internal components like the impeller (110) and the motor assembly (20). Other components include the stator (100), the rotor (25, 26), and the fan (80). The assembly is shown in an exploded view, indicating the relative positions and assembly sequence of the parts.

Key components and labels:

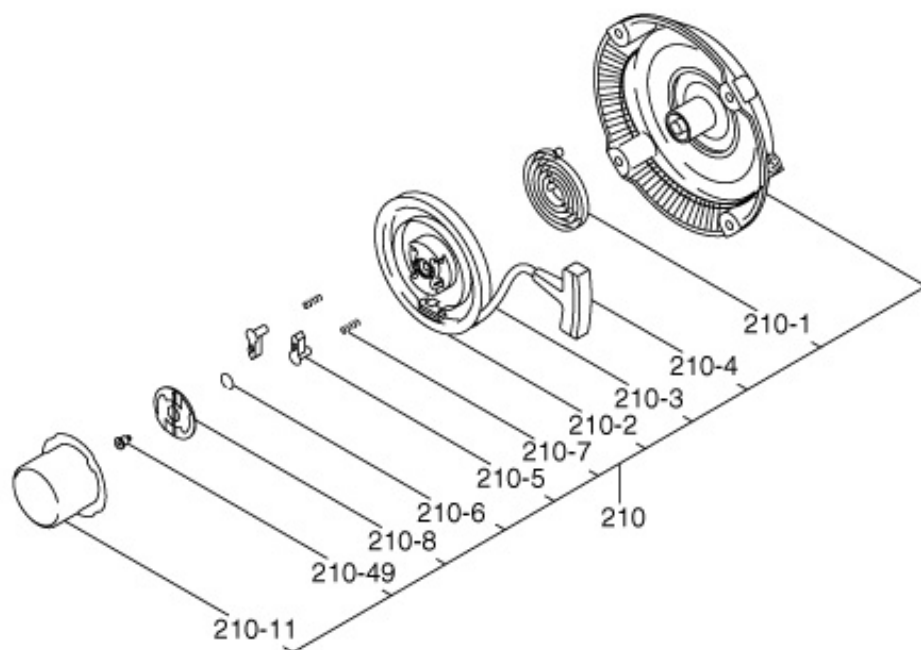
- 82: Bolt
- 62: Bracket
- 80: Fan
- 60: Bolt
- 110: Impeller
- 61: Bolt
- 81: Bolt
- 860: Plate
- 100: Stator
- 130: Bolt
- 220: Bolt
- 454: Washer
- 25, 26: Rotor
- 40: Bolt
- 295: Bolt
- 290: Bolt
- 296: Bolt
- 299: Bolt
- 27: Bolt
- 850: Plate
- 20: Motor assembly

500 Cooling & Starting

Ref	Part Number.	Description	Qty	Remark
10	20B-51302-01	BLOWER HOUSING CP	1	
20	073-20058-20	LABEL(TRADE MARK) ¹	1	
25	073-20058-60	LABEL(WARNING)	1	
40	011-00600-20	FLANGE BOLT ²	4	
60	279-52711-11	BAFFLE 1(CASE) CP	1	
61	20B-52704-13	BAFFLE 2(HEAD)	1	
80	001-65081-20	BOLT ³	1	
81	011-00600-10	FLANGE BOLT ⁴	2	
110	20B-54101-H3	COOLING BLOWER	1	
220	013-00602-81	BOLT AND WASHER AY ⁵	4	
Footnotes				
1: 60D 2: M6X1.0X14DX12L 3: M8X1.25X12L 4: M6X1.0X14DX8L 5: M6X1.0X14L W/SW				

520 Cooling & Starting

FIG. 520



EX40

20B052001W00

520 Cooling & Starting

Ref	Part Number.	Description	Qty	Remark
210	20B-50301-20	RECOIL STARTER AY	1	
210-1	277-50155-08	SPIRAL SPRING	1	
210-2	20B-50120-08	REEL	1	
210-3	20B-50110-08	STARTER ROPE	1	
210-4	261-50100-18	STARTER KNOB	1	
210-5	161-50125-08	RATCHET	2	
210-6	227-50131-08	FRICTION SPRING	1	
210-7	227-50135-08	RETURN SPRING	2	
210-8	161-50150-08	RATCHET GUIDE	1	
210-11	20B-50145-08	STARTER PULLEY	1	
210-49	20B-50101-08	SET SCREW	1	

FIG. 600

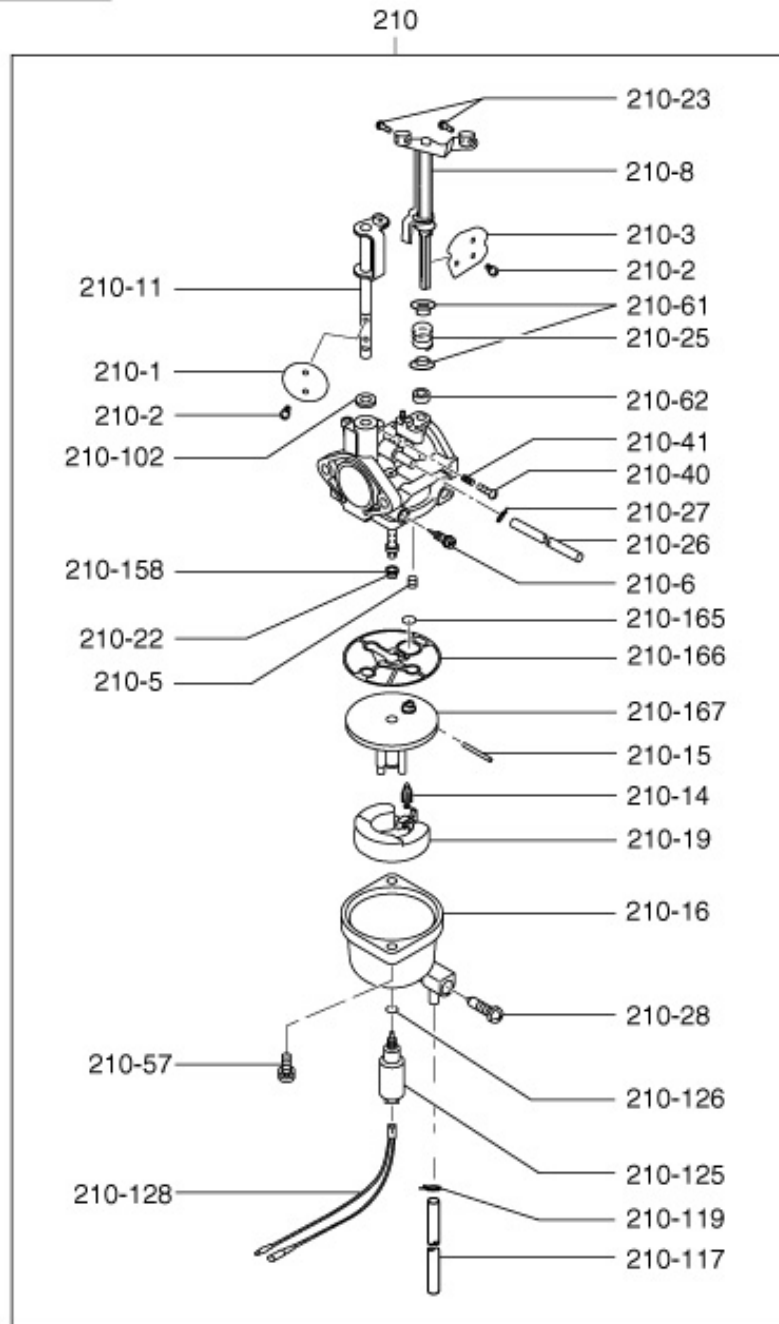
FIG. 600 is an exploded perspective view of a mechanical assembly. The main component is a housing (10) with a top cover (20) and a side bracket (60). The top cover (20) has a cap (30) and an O-ring (40). A bracket (23) is attached to the top of the housing. A side bracket (60) is shown with a pin (63). A hose assembly (71) with a filter (70) and a valve (50) is connected to the side of the housing. A mounting bracket (515) with a pin (542) and a bracket (186) is shown. A pulley (510) with a pin (540) and a bracket (520) with pins (522, 523) is shown. A bracket (73) with pins (83, 93) is shown. A pin (57) is also shown.

600 Fuel & Lubricant

Ref	Part Number.	Description	Qty	Remark
10	20B-60102-01	FUEL TANK CP	1	
20	073-20057-60	LABEL(WARNING)	1	
23	20B-95103-03	LABEL(MODEL)	1	
30	X43-04401-62	FUEL TANK CAP CP ¹	1	
40	X64-13600-10	FUEL FILTER	1	
50	X64-20122-01	FUEL STRAINER AY	1	
57	011-00600-10	FLANGE BOLT	1	
60	002-38080-00	FLANGE NUT	2	
63	011-00802-50	FLANGE BOLT	2	
70	20B-62601-21	FUEL PIPE CP ²	1	
70	20B-62601-11	FUEL PIPE CP ³	1	
71	267-62604-11	FUEL PIPE CP	1	
80	085-10622-01	RUBBER PIPE ²	1	
80	085-10622-00	RUBBER PIPE ³	1	
81	X85-10614-91	RUBBER PIPE	1	
90	056-11000-30	HOSE CLAMP	2	
91	056-11200-40	HOSE CLAMP	1	
92	X56-11100-60	HOSE CLAMP	1	
185	056-81200-20	CLAMP	1	
Footnotes				
1: 8834- 2: 8895- 3: -8894				

640 Fuel & Lubricant

FIG. 640



EX40

20B064002W00

640 Fuel & Lubricant

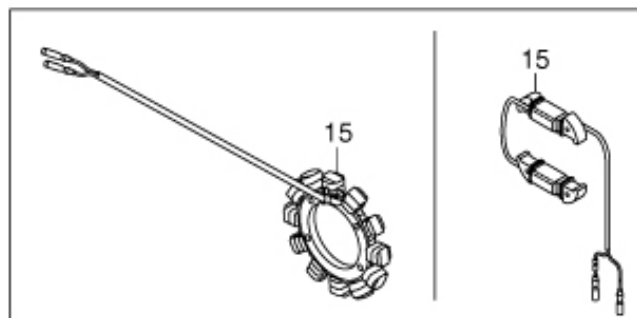
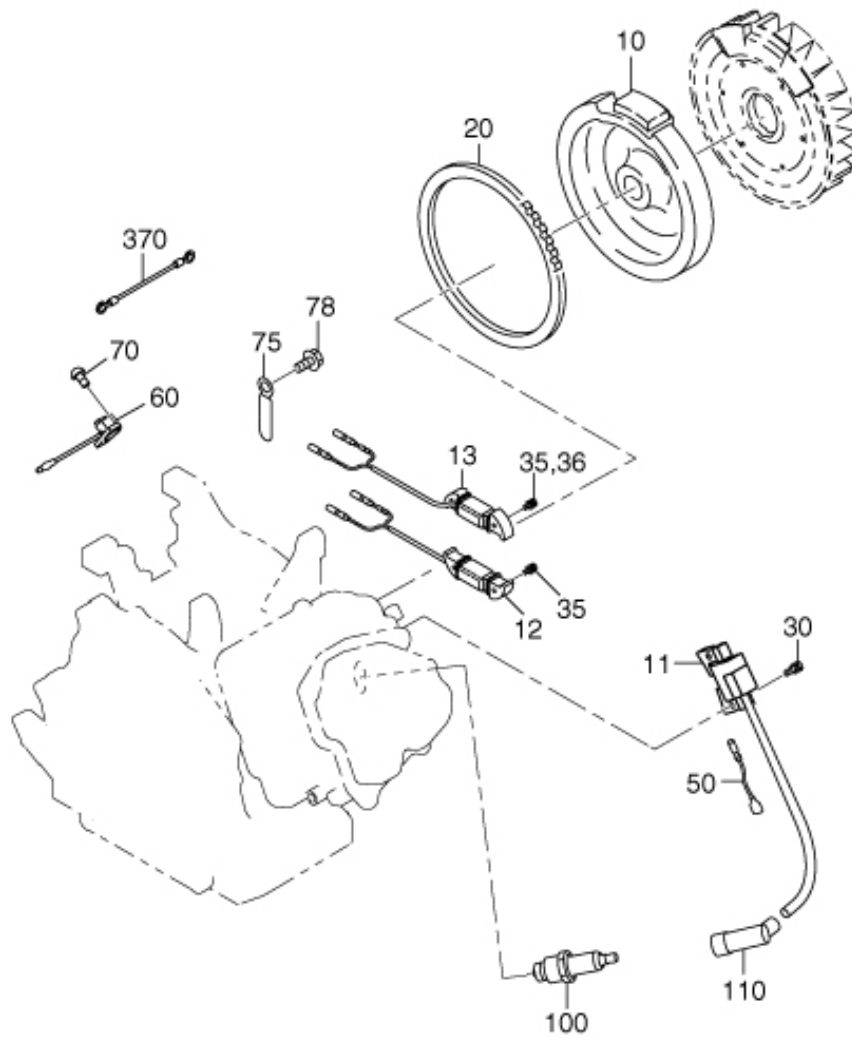
Ref	Part Number.	Description	Qty	Remark
210	20B-62320-00	CARBURETOR AY	1	
210-1	20B-62535-08	VALVE,THROTTLE	1	
210-2	261-62352-08	SCREW,VALVE SET	2	
210-3	20B-62526-08	VALVE,CHOKE	1	
210-5	20B-62426-08	JET,SLOW ¹	1	
210-6	261-62435-08	NEEDLE(IDLE ADJUST)	1	
210-8	20B-62533-08	SHAFT,CHOKE	1	
210-11	20B-62530-08	SHAFT AY,THROTTLE	1	
210-14	20B-62500-08	VALVE AY FLOAT	1	
210-15	263-62515-08	PIN,FLOAT	1	
210-16	20B-62550-08	CHAMBER CP,FLOAT	1	
210-19	20B-62505-08	FLOAT AY	1	
210-22	20B-62418-08	JET,MAIN (#119)	1	
210-28	20B-62354-08	SCREW,DRAIN	1	
210-40	20B-62353-08	SCREW,THRO.ADJUST	1	
210-41	20B-62445-08	SPRING,THRO.ADJUST	1	
210-57	20B-62453-08	SCREW	2	
210-62	258-62554-08	FILTER(CHOKE SHAFT)	1	
210-102	226-62580-08	FILTER,AIR	1	
210-158	20B-62542-08	O RING	1	
210-165	20B-62541-08	O RING	1	
210-166	20B-62540-08	SPACER	1	
210-167	20B-62520-08	SPACER	1	

Footnotes

1: #57

700 Electric Device

FIG. 700



EX40

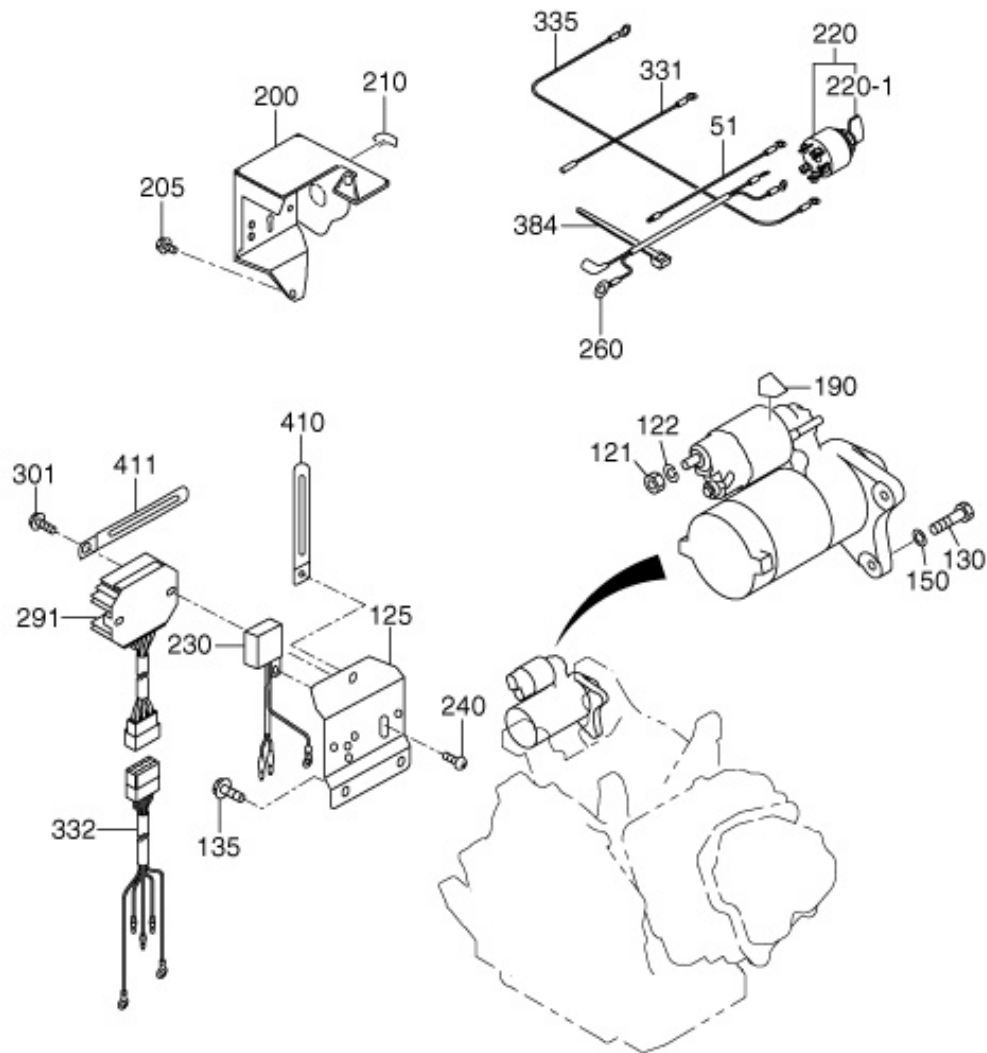
20B070003W00

700 Electric Device

Ref	Part Number.	Description	Qty	Remark
10	20B-79242-H1	FLYWHEEL CP	1	
11	20B-79430-H1	IGNITION COIL CP	1	
15	20B-79303-J1	CHARGE COIL CP	1	
30	001-14063-00	BOLT AND WASHER AY ¹	2	
35	004-35062-00	SCREW AND WASHER AY ²	4	
50	20B-73101-01	WIRE 1 CP	1	
75	214-79006-01	CLAMP CP ³	1	
78	011-00600-10	FLANGE BOLT ⁴	1	
100	065-01401-50	SPARK PLUG ⁵	1	
110	065-50003-11	SPARK PLUG CAP	1	
Footnotes				
1: M6X1.0X30L W/W,SW 2: M6X1.0X20L W/SW 3: 5DXM6X12BX0.4T 4: M6X1.0X14DX8L 5: NGK BR6HS				

720 Electric Device

FIG. 720



EX40

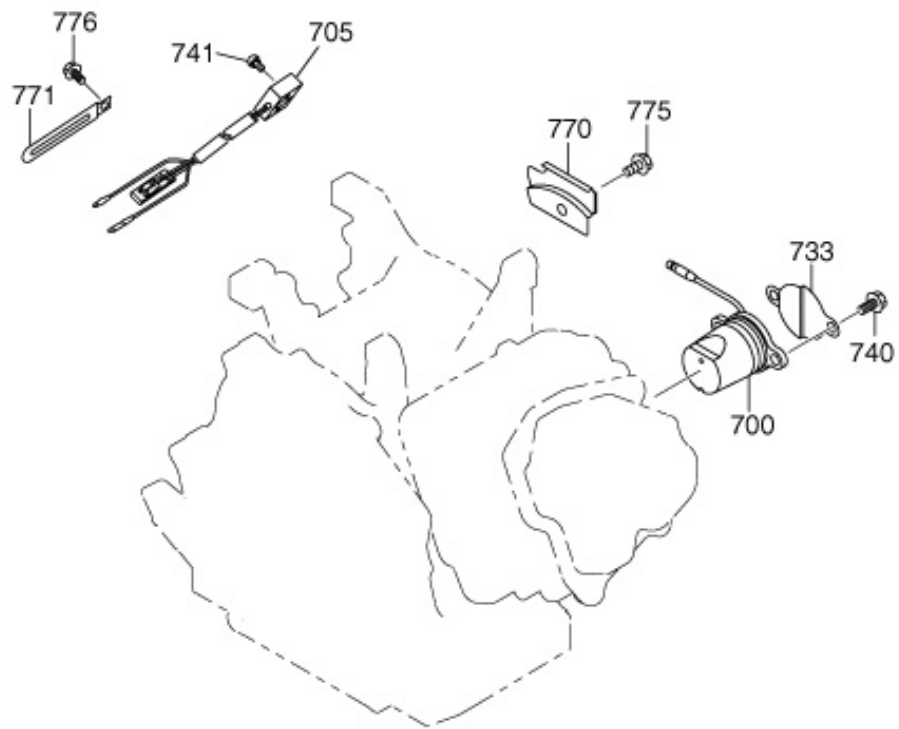
20B072001W00

720 Electric Device

Ref	Part Number.	Description	Qty	Remark
291	277-71902-01	REGULATOR CP	1	
301	011-00601-40	FLANGE BOLT ¹	2	
Footnotes				
1: M6X1.0X14DX18L				

770 Electric Device

FIG. 770



EX40

20B077001W00

770 Electric Device

Ref	Part Number.	Description	Qty	Remark
700	279-76301-51	OIL SENSOR CP	1	
705	KU3-11077-01	FLOAT C/U CP11	1	
733	277-75801-03	SHIELD PLATE(O/S)	1	
740	001-04061-40	FLANGE BOLT ¹	2	
741	015-00400-90	TAPPING SCREW ²	2	
770	20B-75501-03	WIRE CLAMP	1	
775	015-20600-50	TAPPING BOLT ³	1	
Footnotes				
1: M6X1.0X13DX14L 2: M4X12L 3: M6X13DX10L				

Part Number Index

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001-04083-50	6	20B-20901-11	9	20B-62601-21	23
001-05084-00	9	20B-22501-00	9	20B-73101-01	27
001-14062-50	17	20B-23401-H3	9	20B-75501-03	31
001-14063-00	27	20B-23403-H3	9	20B-79242-H1	27
001-65081-20	19	20B-23404-H3	9	20B-79303-J1	27
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