



Robin Engine

Model EH29-2C
for E-Z-GO

PARTS CATALOG

Spec. No. EH292CE1000(EPA) 
EH29CPG5012(EPA) 

FIG.1 CRANKCASE and CYLINDER

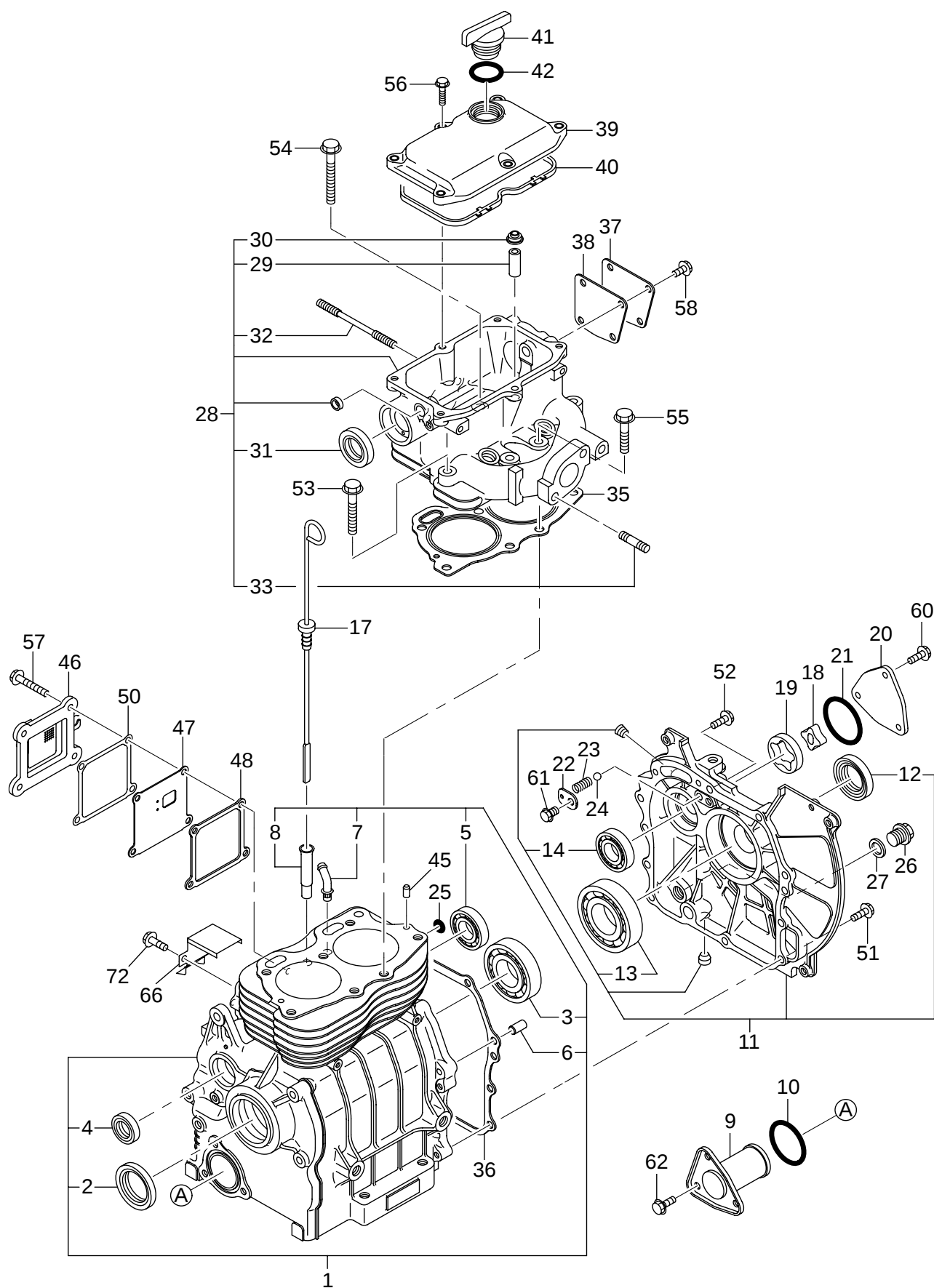


FIG.1 CRANKCASE and CYLINDER

Interchangeability

Ref. No.	Part Number	Description	Q'ty		Execution
*1	285-10101-A1	CRANKCASE COMPL. Includes items 2 thru 8	1		
*1	251-10201-C1	CRANKCASE COMPL. Includes items 2 thru 8	1		
2	044-03500-90	OIL SEAL (35×48×8)	1		
3	X60-03500-40	BALL BEARING (6007)	1		
3	060-03500-40	BALL BEARING (6007)	1		
4	044-02000-70	OIL SEAL (20×32×6)	1		
5	X60-02001-00	BALL BEARING (6004)	1		
5	060-02001-00	BALL BEARING (6004)	1		
6	X31-00800-80	DOWEL PIN	2		
7	251-66301-01	ELBOW	1		
8	251-66201-C1	GUIDE (OIL GAUGE) COMPL.	1		
9	251-64303-01	OIL PUMP FILTER COMPL.	1		
9	251-64302-01	OIL PUMP FILTER COMPL.	1		
10	024-03900-10	O RING	1		
*11	285-11001-A1	MAIN BEARING COVER COMPL. Includes items 12 thru 14	1		
*11	251-11002-B1	MAIN BEARING COVER COMPL. Includes items 12 thru 14	1		
12	044-03000-30	OIL SEAL (30×45×8)	1		
13	X60-03500-10	BALL BEARING (6207)	1		
13	060-03500-10	BALL BEARING (6207)	1		
14	X60-02001-00	BALL BEARING (6004)	1		
14	060-02001-00	BALL BEARING (6004)	1		
17	259-63601-01	OIL GAUGE COMPL.	1		
18	251-63901-H3	INNER ROTOR	1		
18	251-63901-03	INNER ROTOR	1		
19	251-63902-H3	OUTER ROTOR	1		
19	251-63902-03	OUTER ROTOR	1		
20	251-66002-A1	COVER (OIL PUMP)	1		
21	024-04700-10	O RING	1		
22	251-65001-03	PLATE (RELIEF VALVE)	1		
23	251-65101-A3	SPRING (RELIEF VALVE)	1		
24	045-00600-20	STEEL BALL	1		
25	024-00700-10	O RING	1		
26	X40-11400-30	PLUG	1		
27	021-11400-20	GASKET	1		
*28	285-13001-A1	CYLINDER HEAD COMPL. Includes items 29 thru 33	1		
*28	251-13001-C1	CYLINDER HEAD COMPL. Includes items 29 thru 32	1		
29	237-14202-03	VALVE GUIDE	4		
30	277-16010-01	STEM SEAL	4		
30	251-16010-01	STEM SEAL	4		
31	044-02502-00	OIL SEAL (25×38×7)	1		
31	044-02500-70	OIL SEAL (25×38×7)	1		
32	010-50603-21	STUD (M6×1.0×105)	2		
33	010-50802-90	STUD (M8×1.25×30)	2		ADD.
35	251-15002-03	GASKET (HEAD)	1		
35	251-15001-03	GASKET (HEAD)	1		

FIG.1 CRANKCASE and CYLINDER

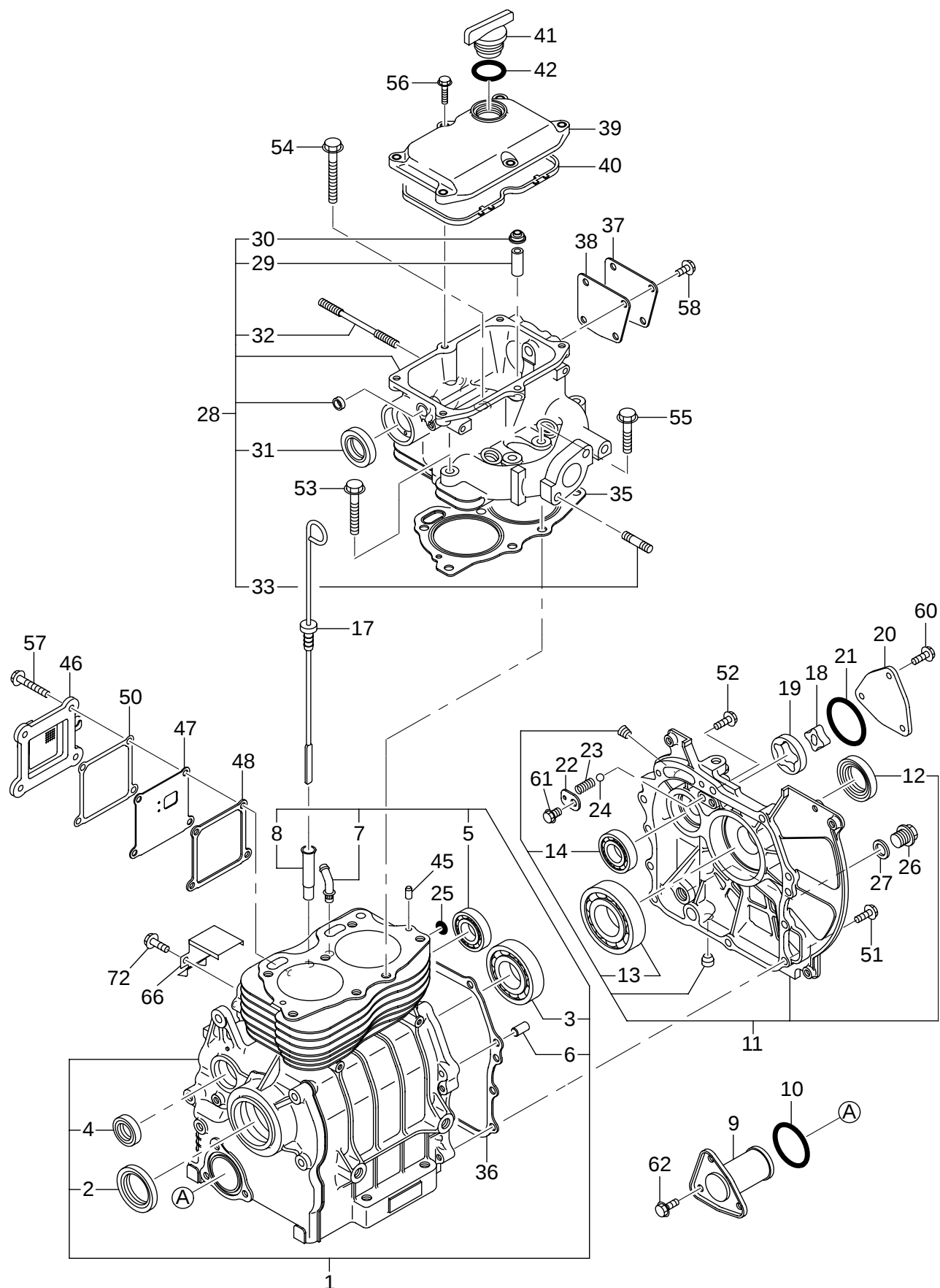


FIG.1 CRANKCASE and CYLINDER

Interchangeability				
Ref. No.	Part Number	Description	Q'ty	Execution
36	285-15101-A3	GASKET (BEARING COVER)	1	✱
36	259-15102-03	GASKET (BEARING COVER)	1	
37	251-15601-A1	COVER (CAMSHAFT)	1	○
37	251-15601-01	COVER (CAMSHAFT)	1	
38	251-15201-A3	GASKET (COVER CAM)	1	✱
38	251-15201-13	GASKET (COVER CAM)	1	
39	285-15501-01	ROCKER COVER COMPL.	1	✱
39	251-15501-21	ROCKER COVER COMPL.	1	
40	285-16101-03	GASKET (ROCKER COVER)	1	✱
40	251-16101-13	GASKET (ROCKER COVER)	1	
41	251-63702-03	OIL FILLER	1	○
42	024-02200-11	O RING	1	
45	X31-00600-20	DOWEL PIN	2	✱
46	285-14301-00	BREATHER COVER ASS'Y	1	
46	251-14304-01	BREATHER COVER COMPL.	1	✱
47	285-14401-01	BREATHER PLATE 1 COMPL.	1	
47	251-14402-21	BREATHER PLATE 1 COMPL.	1	✱
48	285-16002-03	GASKET (BREATHER)	1	
48	239-16006-03	GASKET (BREATHER COVER)	2	✱
50	285-16001-03	GASKET (BREATHER COVER)	1	
50	251-16007-03	GASKET (BREATHER)	2	○
51	X11-00601-01	FLANGE BOLT (M6×1.0×28mm)	8	
51	X13-00600-40	BOLT AND WASHER ASS'Y (M6×1.0×30mm)	7	✱
52	X11-00803-00	FLANGE BOLT (M8×1.25×28mm)	2	
52	001-13083-00	BOLT AND WASHER ASS'Y (M8×1.25×30mm)	2	○
53	001-04085-05	FLANGE BOLT (M8×1.25×50mm)	4	
54	001-04086-05	FLANGE BOLT (M8×1.25×60mm)	1	✱
55	X11-00800-10	FLANGE BOLT (M8×1.25×40mm)	2	
56	X11-00601-60	FLANGE BOLT (M6×1.0×23mm)	6	○
57	X11-00601-40	FLANGE BOLT (M6×1.0×18mm)	4	
57	X11-00601-70	FLANGE BOLT (M6×1.0×40mm)	2	✱
58	X11-00600-20	FLANGE BOLT (M6×1.0×12mm)	4	
58	X11-00600-20	FLANGE BOLT (M6×1.0×12mm)	3	○
59	251-36901-01	BOLT (COVER CAM) (M6×1.0)	1	
60	X11-00600-20	FLANGE BOLT (M6×1.0×12mm)	3	✱
60	001-13061-20	BOLT AND WASHER ASS'Y (M6×1.0×12mm)	3	
61	X11-00600-10	FLANGE BOLT (M6×1.0×8mm)	1	○
62	X11-00600-20	FLANGE BOLT (M6×1.0×12mm)	3	
62	001-13061-20	BOLT AND WASHER ASS'Y (M6×1.0×12mm)	3	✱
63	052-10800-31	BANJO	1	
64	053-00800-50	BANJO BOLT	1	○
65	003-70080-00	GASKET ALUMINUM	2	
66	285-14501-03	BREATHER PLATE 2	1	✱
66	251-14403-01	BREATHER PLATE 2 COMPL.	1	
67	251-17201-13	BREATHER BOX	1	○
*68	251-17301-01	PIPE(RETURN)COMPL. Includes items 69 thru 71	1	
69	085-10612-00	RUBBER PIPE(φ 6Xφ 12x145mm)	1	

FIG.1 CRANKCASE and CYLINDER

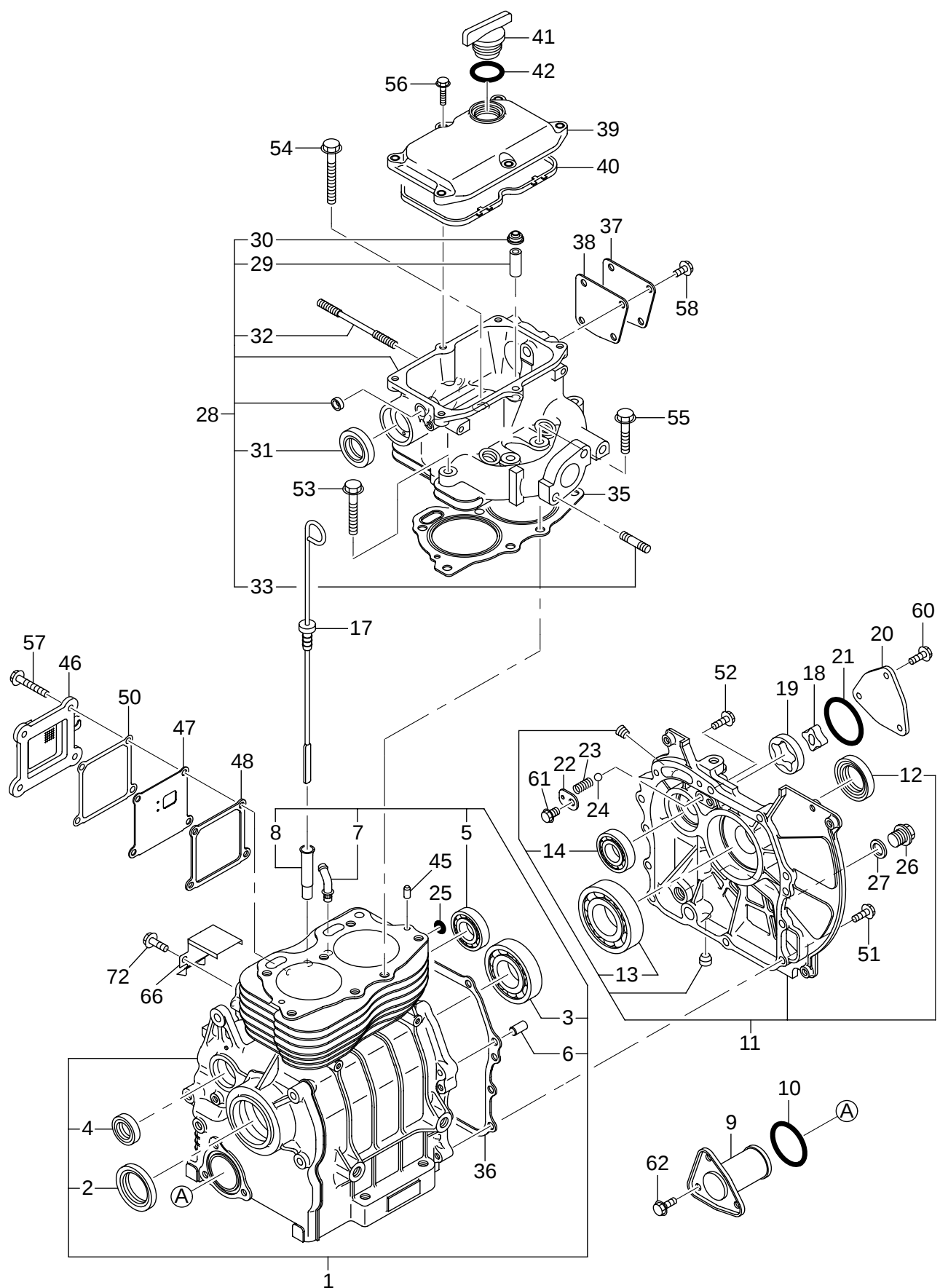


FIG.1 CRANKCASE and CYLINDER

Interchangeability

[illegible]

FIG.2 CRANKSHAFT and PISTON

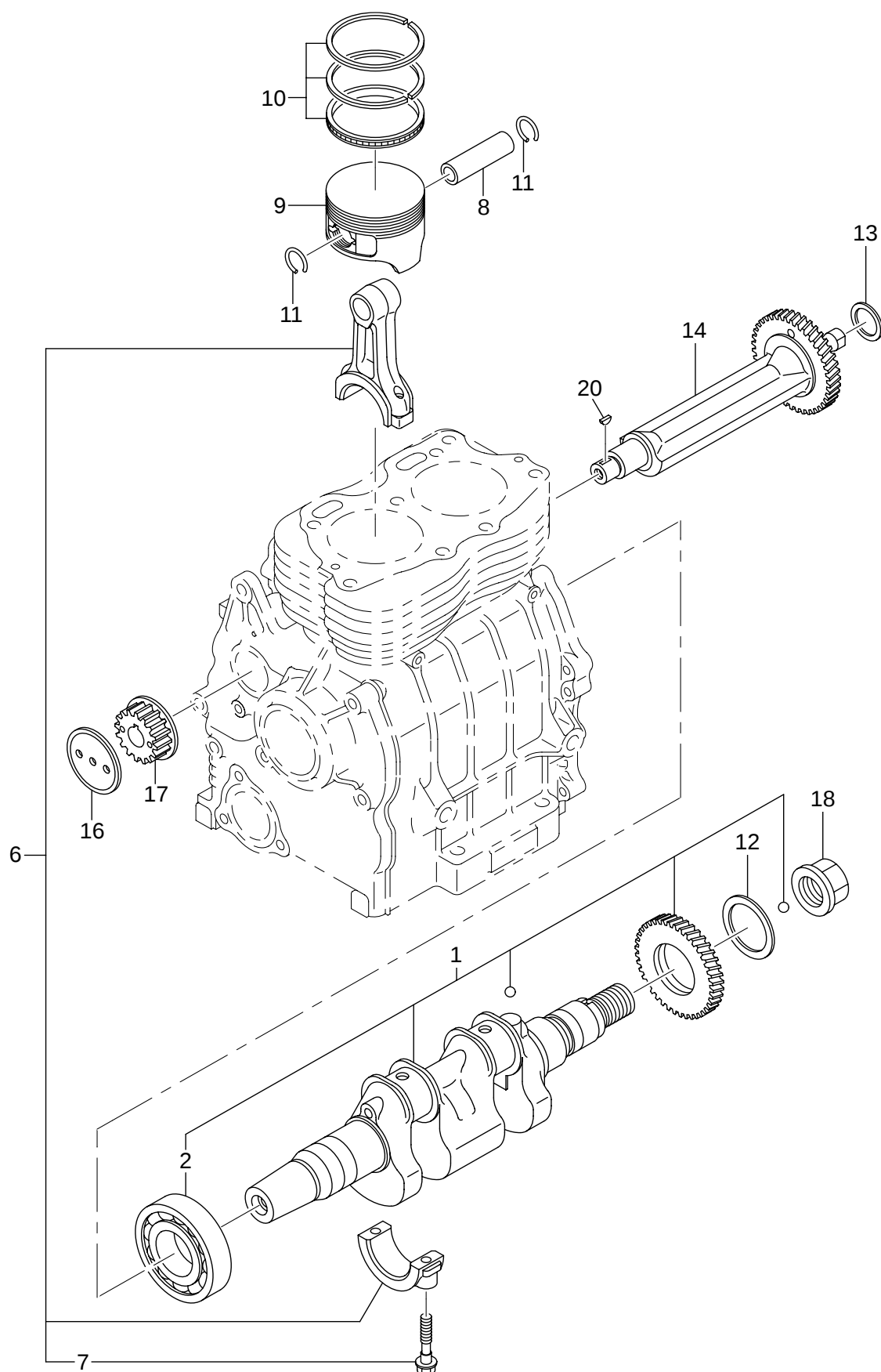


FIG.2 CRANKSHAFT and PISTON

[illegible]

FIG.3 INTAKE and EXHAUST

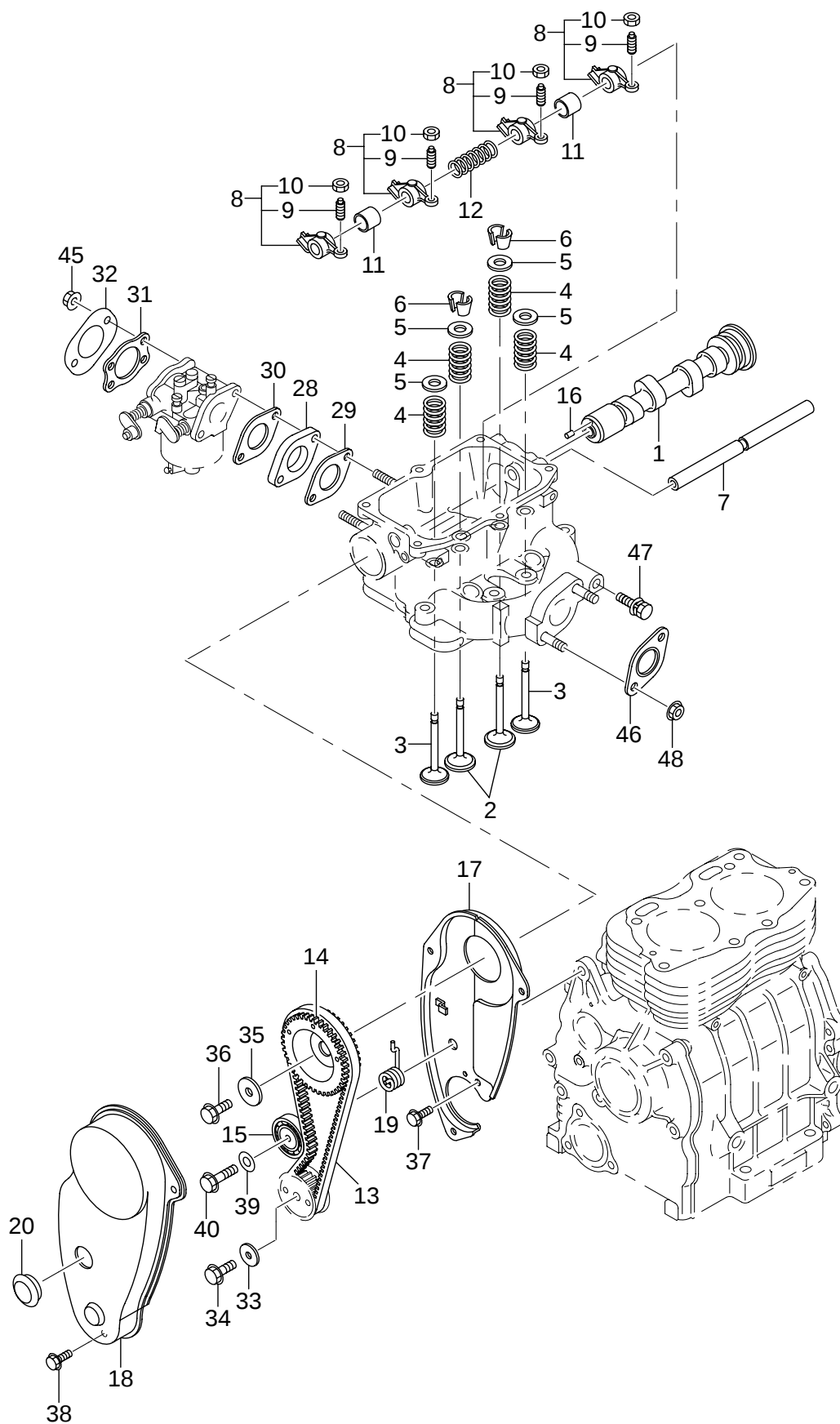


FIG.3 INTAKE and EXHAUST

					Interchangeability	
Ref. No.	Part Number	Description	Q'ty		Execution	
1	251-31703-03	CAMSHAFT	1			
1	251-31702-03	CAMSHAFT	1	↙*		
2	251-33402-13	INTAKE VALVE	2			
3	285-33501-03	EXHAUST VALVE	2			
3	251-33502-13	EXHAUST VALVE	2	↙*		
4	251-33602-A3	VALVE SPRING	4			
5	269-33701-03	SPRING RETAINER	4	↙○		
5	132-09KA0-40	RETAINER (VALVE SPRING)	4	↙○		
6	132-10KA0-31	COLLET-VALVE	8			
7	251-35002-03	ROCKER SHAFT	1			
*8	285-36101-00	ROCKER ARM ASS'Y Includes items 9 and 10	4	↙○		
*8	251-36101-10	ROCKER ARM ASS'Y Includes items 9 and 10	4	↙○		
*8	251-36101-00	ROCKER ARM ASS'Y Includes items 9 and 10	4	↙○		
9	014-90500-30	ADJUSTING SCREW (M5×0.5×18.5mm)	4	↙*		
9	014-90600-90	ADJUSTING SCREW (M6×0.75×20mm)	4	↙*		
10	017-00500-30	NUT (M5×0.5)	4	↙*		
10	017-00600-90	NUT (M6×0.75)	4	↙*		
11	251-36202-A3	SPACER (ROCKER SHAFT)	2	↙○		
11	251-36202-03	SPACER (ROCKER SHAFT)	2	↙○		
12	251-36301-03	SPRING (ROCKER SHAFT)	1			
13	251-35601-A3	TIMING BELT	1			
14	251-35501-03	PULLEY (DRIVEN)	1			
15	251-35703-01	IDLER COMPL.	1			
16	031-00300-22	DOWEL PIN	1			
17	285-36401-01	BELT COVER 1 COMPL.	1	↙○		
17	251-36401-11	BELT COVER 1 UNIT	1	↙○		
18	285-36501-03	BELT COVER 2	1	↙○		
18	251-36501-01	BELT COVER 2 COMPL.	1	↙○		
19	251-36602-B3	SPRING (IDLER)	1			
20	251-36701-13	GROMMET (BELT COVER)	1			
21	251-34101-A1	EXHAUST MANIFOLD COMPL.	1		DELETED	
22	251-35202-11	GASKET COMPL. (MANIFOLD)	1		DELETED	
28	285-32901-A3	INSULATOR	1	↙*		
28	251-32901-A3	INSULATOR	1	↙*		
29	251-37101-13	GASKET 2 (INSULATOR)	1			
30	251-37101-13	GASKET 2 (INSULATOR)	1			
31	251-37201-A3	GASKET 1 (AIR CLEANER)	1	↙○		
31	251-37201-03	GASKET 1 (AIR CLEANER)	1	↙○		
32	251-35321-A3	PLATE (CARB-COV)	1			
32	251-37301-03	GASKET 2 (AIR CLEANER)	1		DELETED	
33	X20-00601-50	WASHER (6.5×22×2t)	1			
34	001-04061-40	FLANGE BOLT	1	↙*		
34	001-13061-60	BOLT AND WASHER ASS'Y (M6×1.0×16mm)	1	↙*		
35	X20-00800-50	WASHER(8.5X28X2.3t)	1			
36	001-04081-60	FLANGE BOLT	1	↙*		
36	001-13082-00	BOLT AND WASHER ASS'Y (M8×1.25×20mm)	1	↙*		

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FIG.3 INTAKE and EXHAUST

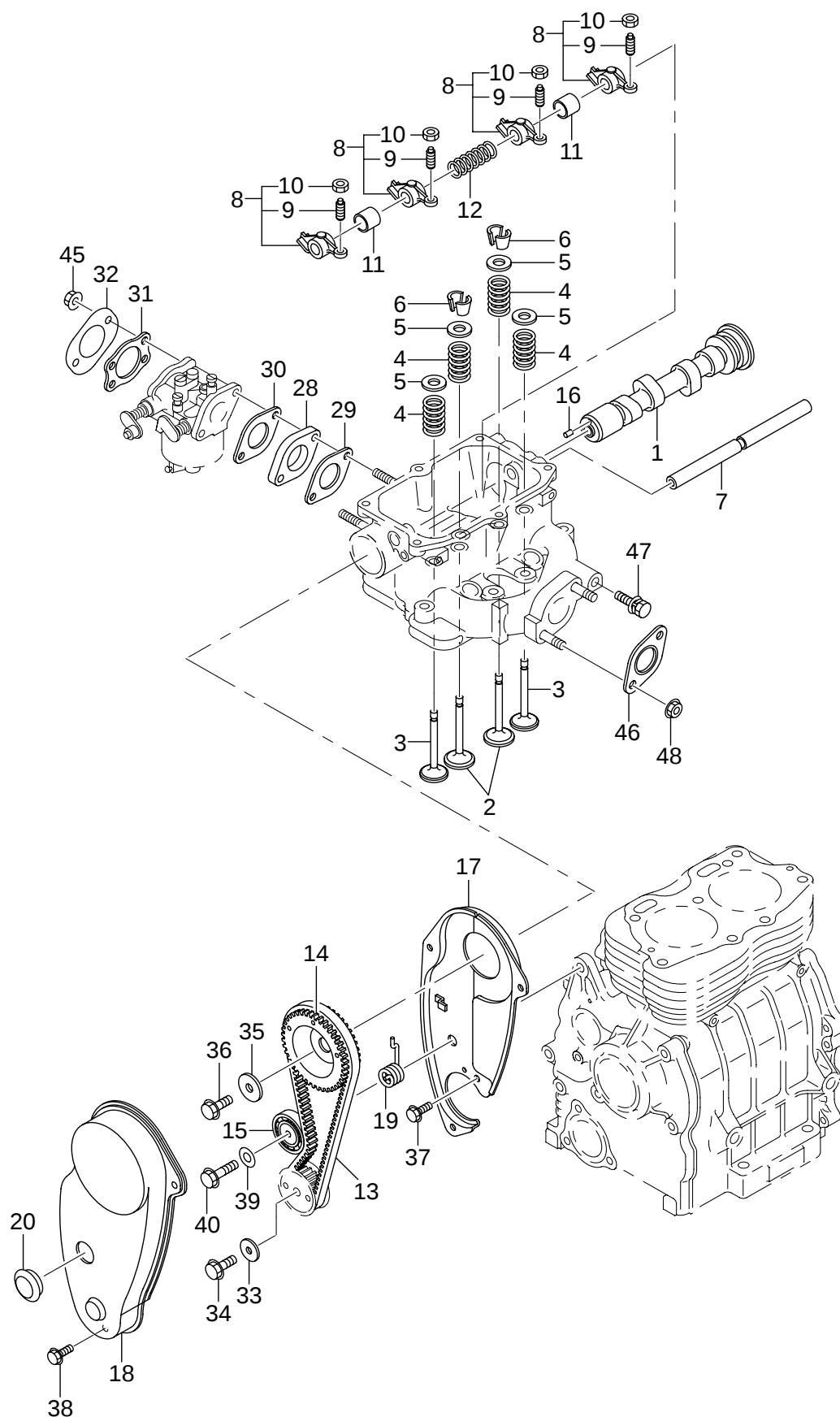


FIG.3 INTAKE and EXHAUST

[illegible]

FIG.4 COOLING STARTING

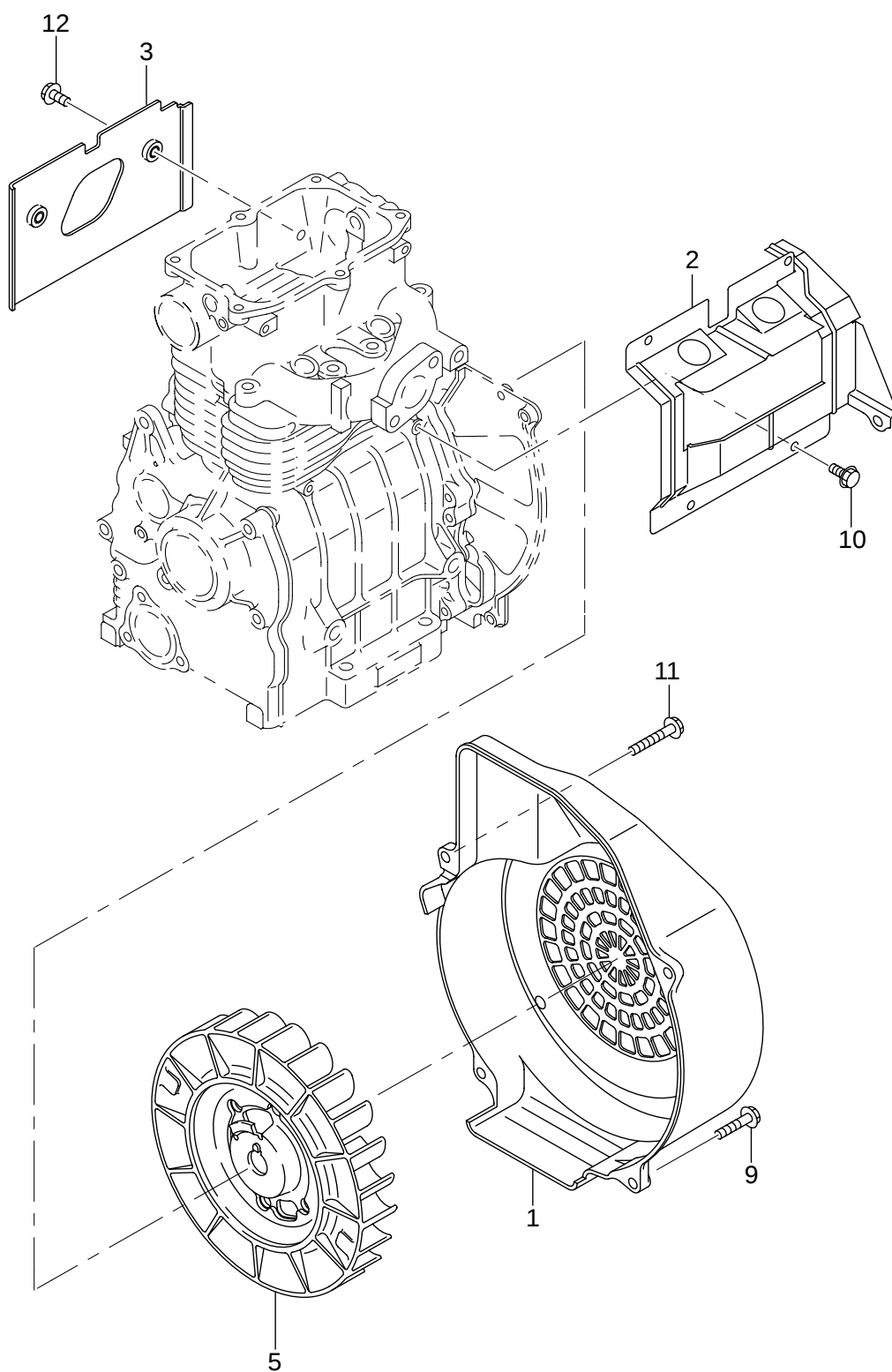


FIG.4 COOLING STARTING

[illegible]

FIG.5 CARBURETOR

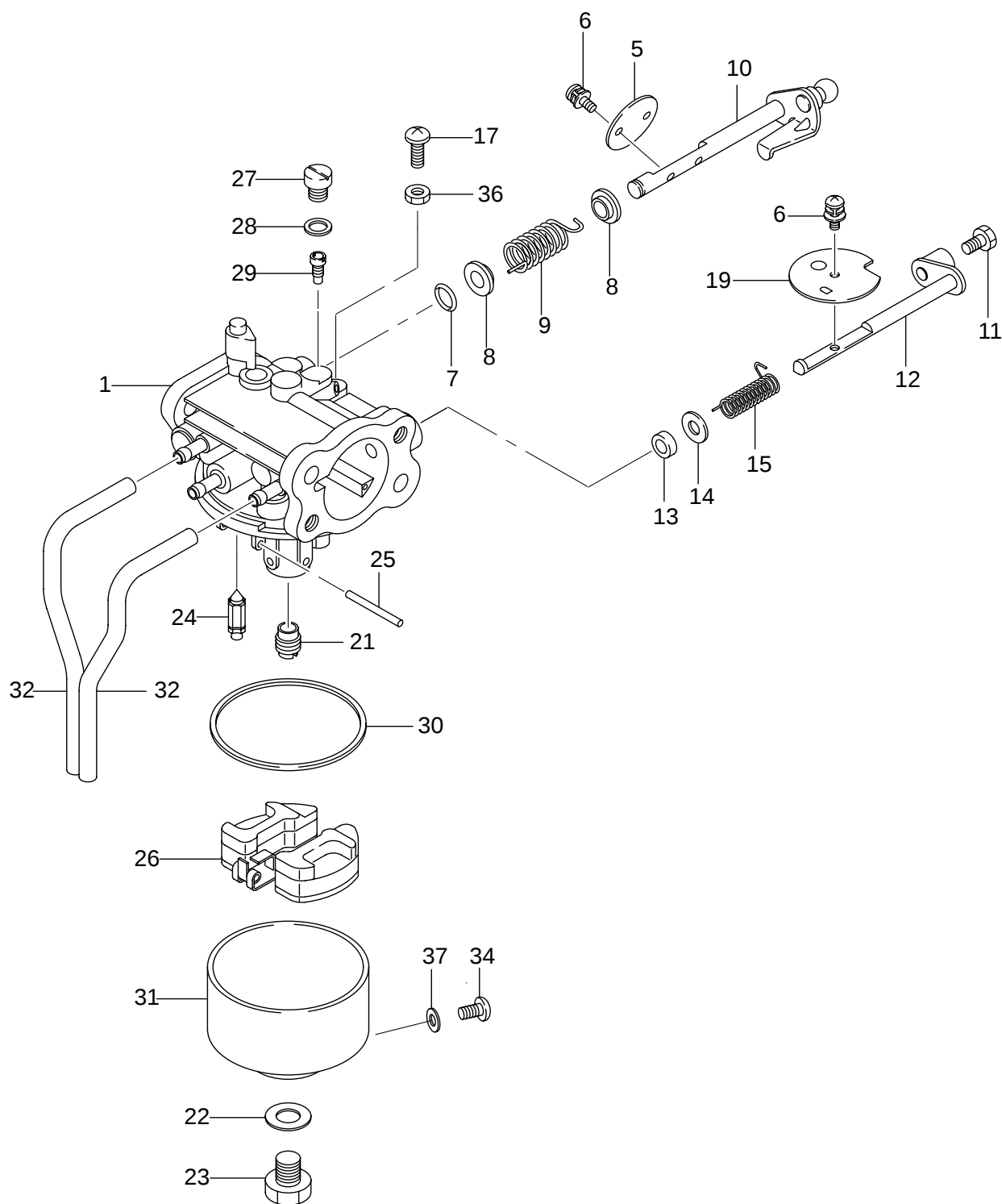


FIG.5 CARBURETOR

Interchangeability				
Ref. No.	Part Number	Description	Q'ty	Execution
*1	285-62301-00	CARBURETOR ASS'Y Includes items 5 thru 15, 17, 19 thru 34, 36, 37	1	✖
*1	251-62308-00	CARBURETOR ASS'Y Includes items 2 thru 19, 21 thru 32 and 34 thru 36	1	
2	251-62461-08	PLUG	1	DELETED
3	251-62555-08	"G" RING	1	DELETED
4	251-62556-08	PACKING	1	DELETED
5	251-62535-08	THROTTLE VALVE	1	
6	251-62455-08	SCREW	3	
7	251-62557-08	"OV" RING	1	
8	251-62561-08	COLLAR	2	
9	285-62445-08	THROTTLE RETURN SPRING	1	✖
9	251-62445-08	THROTTLE RETURN SPRING	1	
10	285-62530-08	THROTTLE SHAFT ASS'Y	1	✖
10	251-62530-18	THROTTLE SHAFT ASS'Y	1	
11	251-62454-08	SCREW	1	
12	251-62520-18	CHOKE SHAFT ASS'Y	1	
13	251-62559-08	BUSH	1	
14	251-62560-08	COLLAR	1	
15	285-62446-08	CHOKE RETURN SPRING	1	✖
15	251-62446-08	CHOKE RETURN SPRING	1	
17	251-62456-08	SCREW	1	
19	251-62525-38	CHOKE VALVE	1	
21		MAIN JET (# -TR)	1	✖
21	251-62362-08	MAIN JET (#86-TR)	1	
22	251-62350-08	GASKET	1	
23	251-62453-08	SCREW	1	
24	279-62500-08	NEEDLE VALVE	1	✖
24	251-62500-28	NEEDLE VALVE	1	
25	279-62515-08	PIN	1	✖
25	251-62515-08	PIN	1	
26	279-62505-08	FLOAT	1	✖
26	251-62505-08	FLOAT	1	
27	251-62460-08	PLUG	1	
28	251-62352-08	GASKET	1	
29		SLOW JET (#)	1	✖
29	251-62380-08	SLOW JET (#46)	1	
30	279-62540-08	CHAMBER PACKING	1	✖
30	251-62540-08	CHAMBER PACKING	1	
31	279-62550-08	FLOAT CHAMBER	1	✖
31	251-62550-08	FLOAT CHAMBER	1	
32	285-62565-08	RUBBER PIPE	2	✖
32	251-62565-08	RUBBER PIPE	2	
34	279-62355-08	DRAIN SCREW	1	✖
34	251-62661-08	DRAIN SCREW	1	
35	251-62660-08	RUBBER PIPE	1	DELETED
36	251-62470-08	NUT	1	

This technical drawing is an exploded view of a mechanical assembly, likely a hydraulic or pneumatic cylinder. The components are numbered 1 through 37. The main body (1) is a cast part with multiple ports. Two long, curved tubes (32) are attached to the side ports. A central rod (10) passes through the body. At one end of the rod is a piston (5) with a seal (6). A spring (9) is located between the piston and the body. At the other end of the rod is a piston (19) with a seal (6). A spring (15) is located between the piston and the body. The rod is also connected to a lever arm (12) at the other end. Various nuts, washers, and bolts (e.g., 17, 27, 28, 29, 36, 7, 8, 11, 13, 14, 21, 24, 25, 26, 30, 31, 34, 37) are shown in their respective positions. A large circular flange (30) is shown below the main body. A lever arm (26) is shown below the flange. A large cylindrical component (31) is shown below the lever arm. A small ring (22) and a bolt (23) are shown at the bottom. The diagram uses dashed lines to indicate the assembly path and alignment of the components.

FIG.5 CARBURETOR

↳ **Interchangeability**

[illegible]

FIG.6 ELECTRIC DEVICE

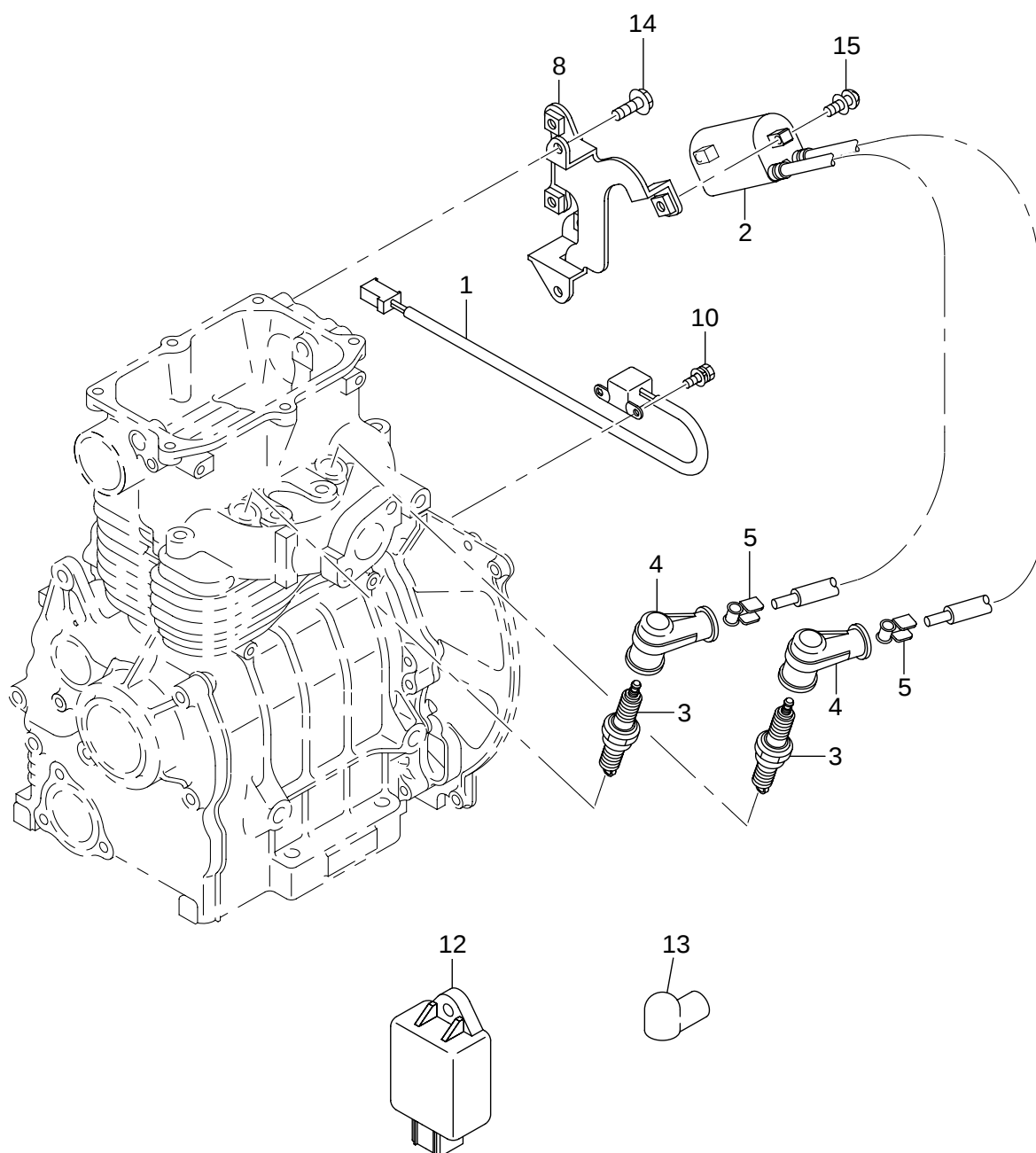


FIG.6 ELECTRIC DEVICE

[illegible]

FIG.8 FUEL PUMP

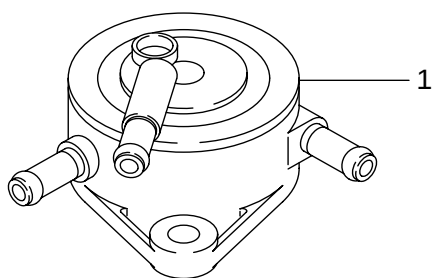


FIG.8 FUEL PUMP

[illegible]

FIG.9 PARTS TO BE SHIPPED LOOSE

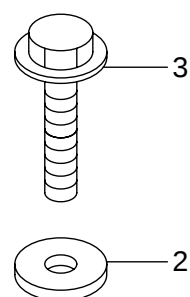
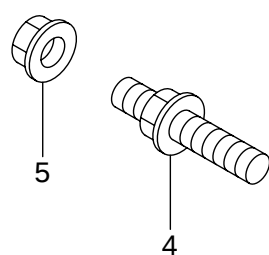


FIG.9 PARTS TO BE SHIPPED LOOSE

[illegible]