

PARTS MANUAL

Model

**EH650VC0111
ENGINES**

Rev. 07/09

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This exploded view diagram illustrates the assembly of a 125cc OHV engine. The central component is the engine block (1), which houses the cylinder (2) and piston (3). The piston is connected to the crankshaft (4) via the connecting rod (5). The crankshaft is mounted on the main bearings (6, 7) and is driven by the camshaft (8) through the timing belt (9). The camshaft is supported by the camshaft bearings (10, 11) and is connected to the intake and exhaust valves (12, 13) via the cam followers (14, 15). The intake valve is controlled by the intake valve rocker (16, 17), and the exhaust valve is controlled by the exhaust valve rocker (18, 19). The valves are seated in the valve guides (20, 21) and are secured by the valve retainers (22, 23). The engine is mounted on the frame (24) using the mounting brackets (25, 26) and bolts (27, 28). The timing belt is tensioned by the tensioner (29, 30) and is secured by the timing belt cover (31). The engine is protected by the timing belt cover (32) and the timing belt cover gasket (33). The timing belt cover is secured by the timing belt cover bolts (34, 35) and the timing belt cover gasket (36). The timing belt cover is also secured by the timing belt cover gasket (37, 38, 39, 40) and the timing belt cover gasket (41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51).

FIG. 1 CRANKCASE GROUP

REF	PART NUMBER	DESCRIPTION	QTY	REMARKS
1	263-10202-A1	CRANKCASE	1	
2	263-15802-03	MAIN BEARING	1	
3	X31-00800-80	DOWEL PIN	2	
4	142-55601-03	PIPE	2	
6	235-15421-03	BLIND PLUG	1	
7	044-00800-10	OIL SEAL	1	
8	044-03500-90	OIL SEAL	1	
9	263-17101-A3	LEAF VALVE	2	
10	263-17201-A3	RETAINER PLATE	2	
11	004-35041-00	SCREW and WASHER	4	
12	263-11021-A1	MAIN BEARING COVER	1	
13	044-04200-30	OIL SEAL	1	
14	263-45101-C1	GOVERNOR GEAR	1	
15	263-41901-03	GOVERNOR SLEEVE	1	
16	263-46215-A3	THRUST BEARING	1	
17	263-46214-A3	WASHER	2	
18	248-65601-03	SPRING, relief valve	1	
19	006-90308-00	STEEL BALL	1	
20	263-17301-A3	RETAINER PLATE	1	
21	X11-00600-20	FLANGE BOLT	1	
22	263-64311-A1	OIL PUMP FILTER	1	
23	001-13051-00	BOLT and WASHER	2	
24	235-15421-03	BLIND PLUG	1	
25	263-17404-A3	DRAIN PLUG, 8mm internal hex head	3	From Serial Number 1001676~ To Serial Number ~ 1001675
25	263-17401-A3	DRAIN PLUG, square head	3	
26	263-13203-02	CYLINDER HEAD 1 UN	1	
27	263-14203-03	VALVE GUIDE	4	
28	010-50802-90	STUD	8	
29	132-07AA0-50	SEAL, intake valve	2	
30	132-11AA0-50	SEAL, exhaust valve	2	
31	263-13303-02	CYLINDER HEAD 2 UN	1	
32	263-15501-A3	ROCKER COVER	2	
33	263-16101-A3	GASKET, rocker cover	2	
34	263-15021-11	GASKET, cylinder head 1	1	
35	263-15121-01	GASKET, cylinder head 2	1	
36	263-16011-A3	GASKET, main bearing cover	1	
37	263-16006-03	GASKET, breather plate	2	
38	263-14301-03	BREATHER COVER	1	
39	263-14411-A1	BREATHER PLATE	1	
40	024-00090-00	O RING	2	
41	263-18003-03	RUBBER PIPE	1	
42	263-68511-03	HOSE CLAMP	2	
43	X31-00600-20	DOWEL PIN	4	
44	263-19101-A3	LIFT HOOK 1	1	
45	263-19102-A3	LIFT HOOK 2	1	
46	X11-01000-30	FLANGE BOLT	8	

FIG. 1 CRANKCASE GROUP

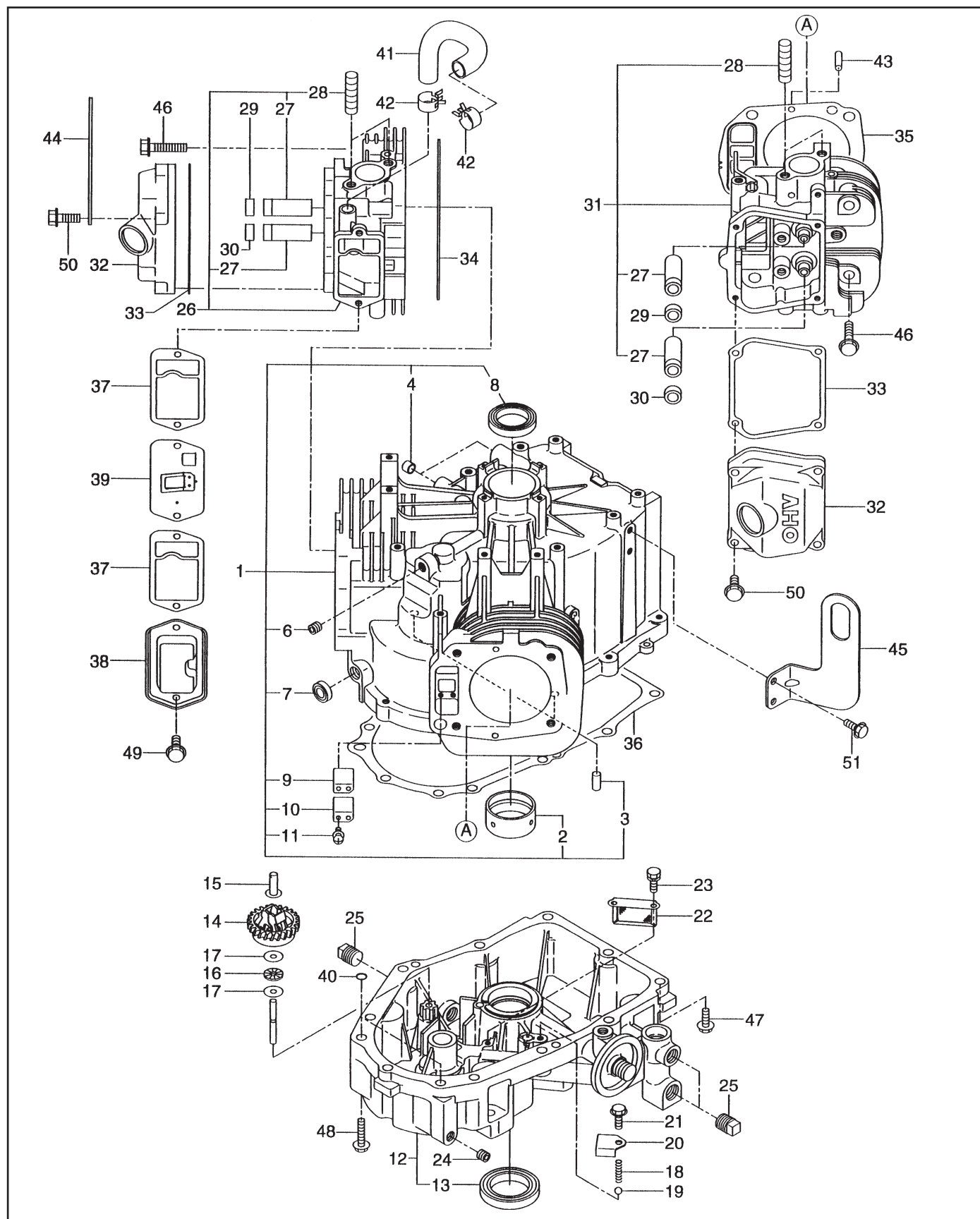


FIG. 1 CRANKCASE GROUP

[illegible]

FIG. 2 CRANKSHAFT GROUP

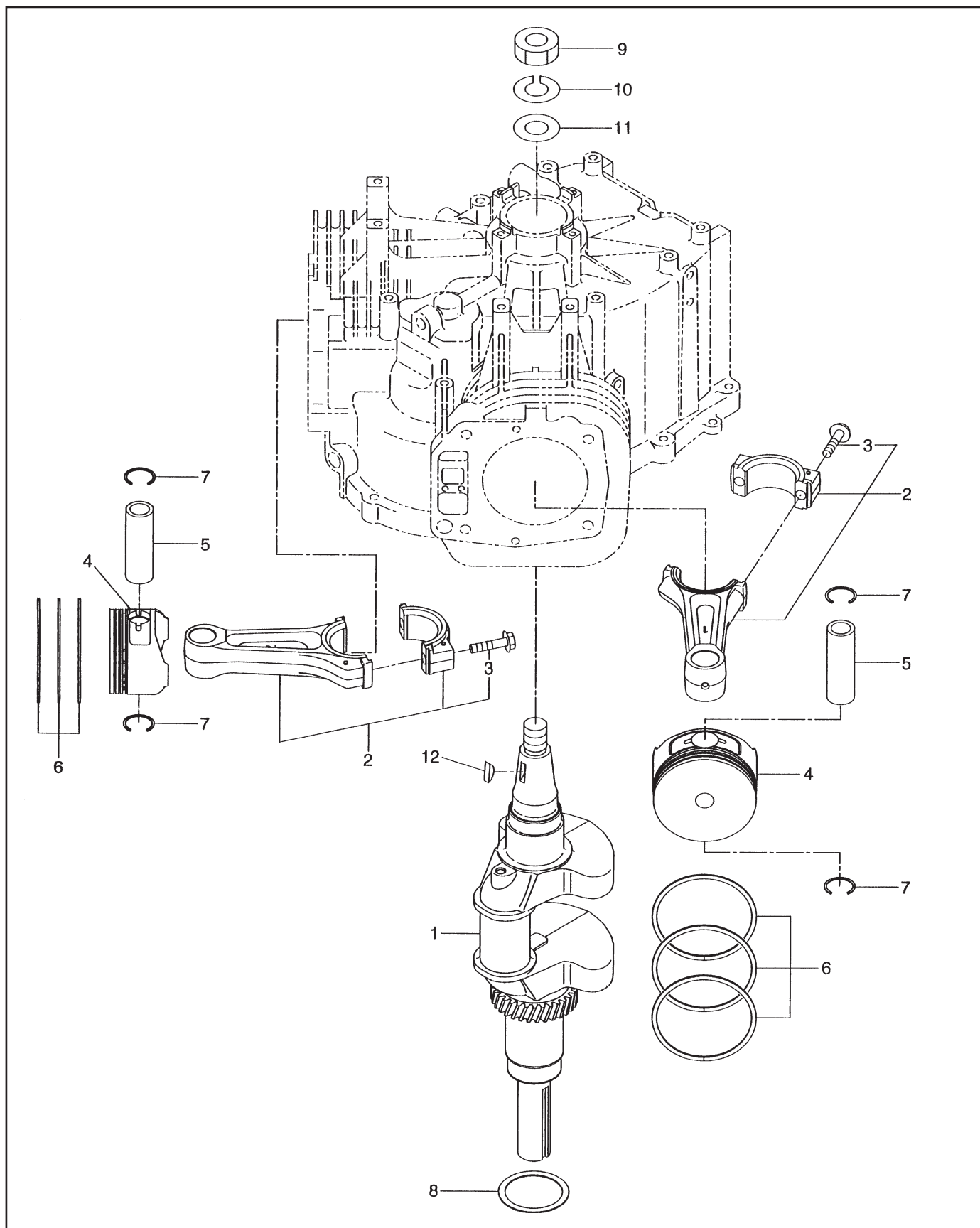


FIG. 2 CRANKSHAFT GROUP

[illegible]

FIG. 3 INTAKE and EXHAUST GROUP

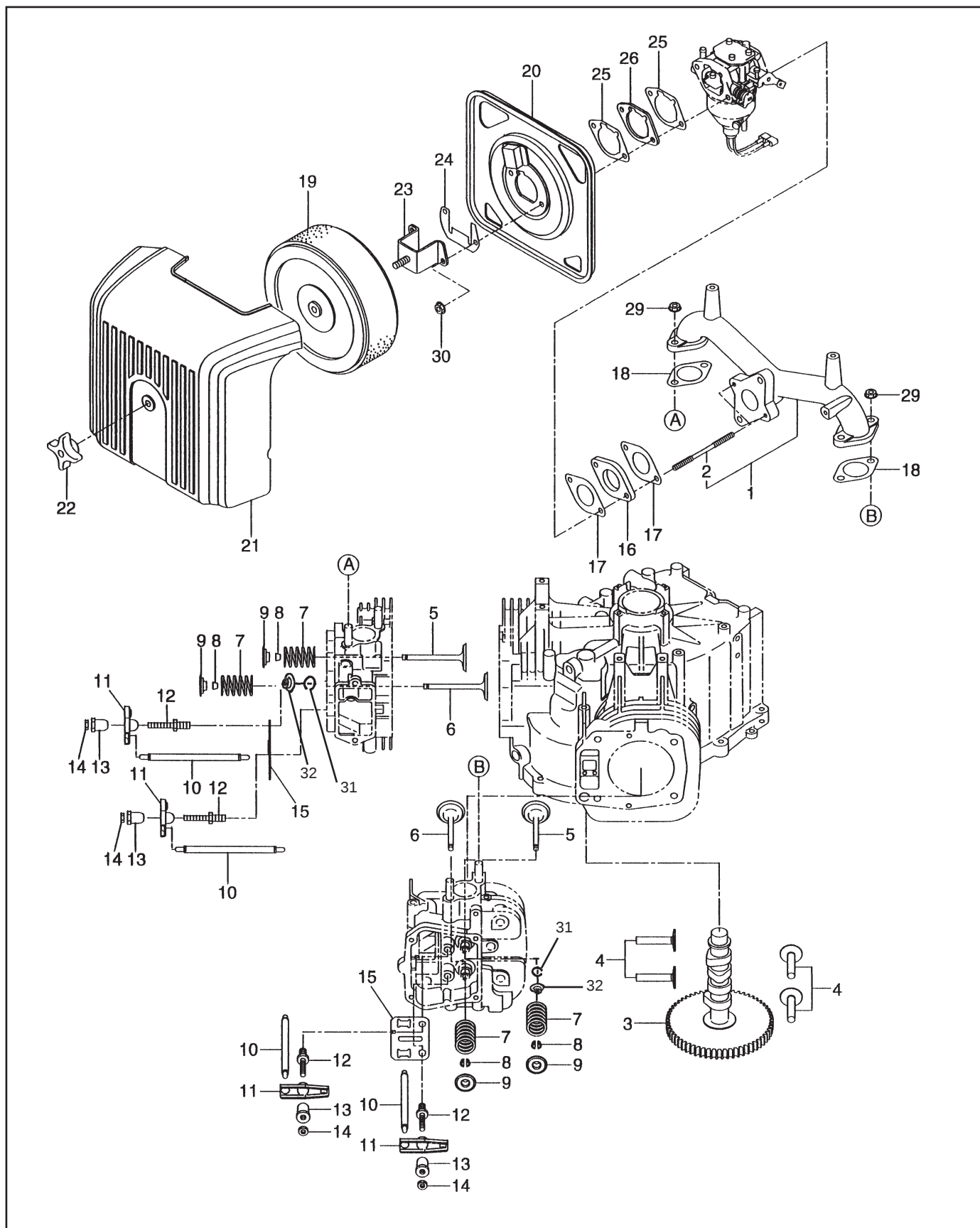


FIG. 3 INTAKE and EXHAUST GROUP

[illegible]

FIG. 5 GOVERNOR GROUP

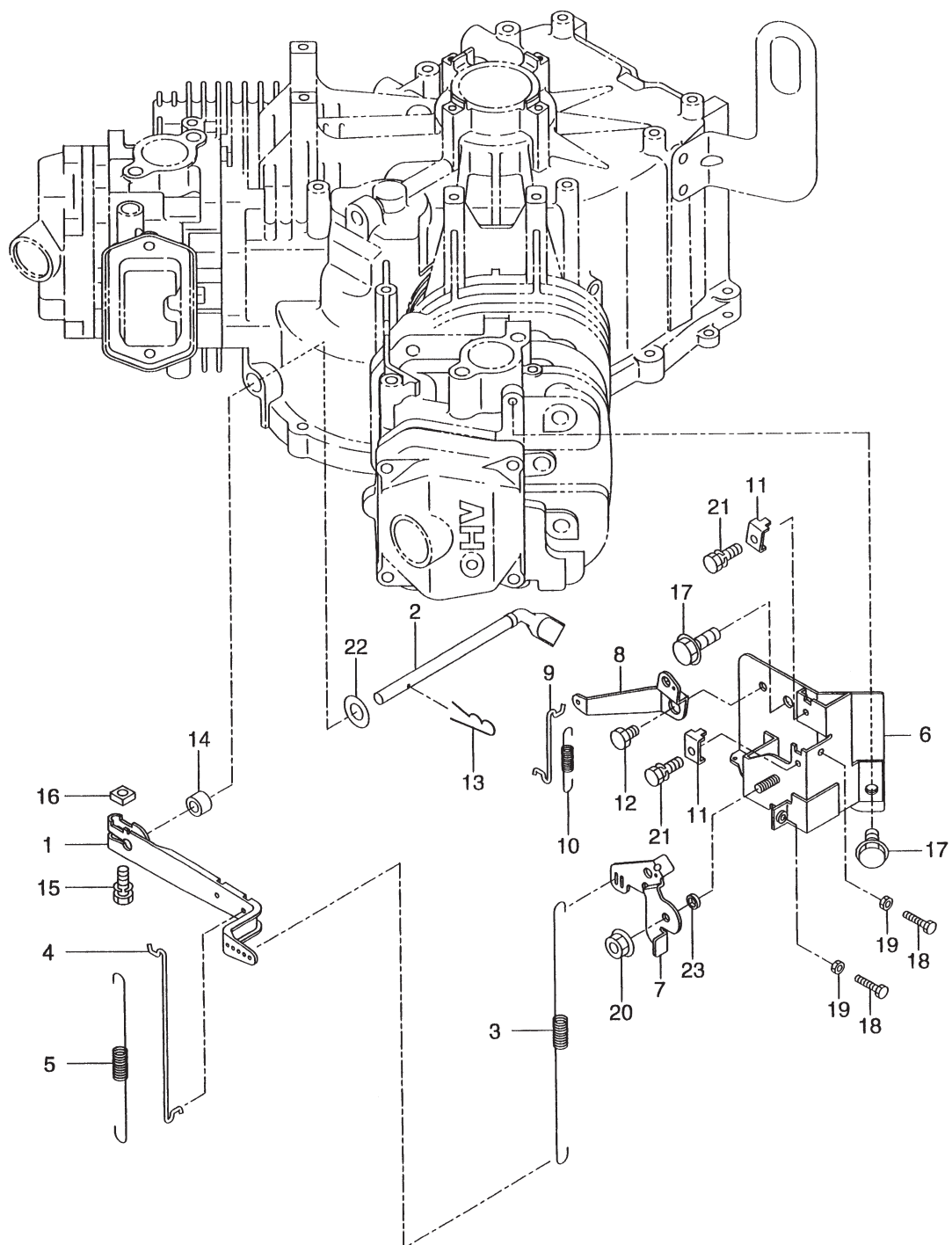


FIG. 5 GOVERNOR GROUP

[illegible]

FIG. 6 COOLING and STARTING GROUP

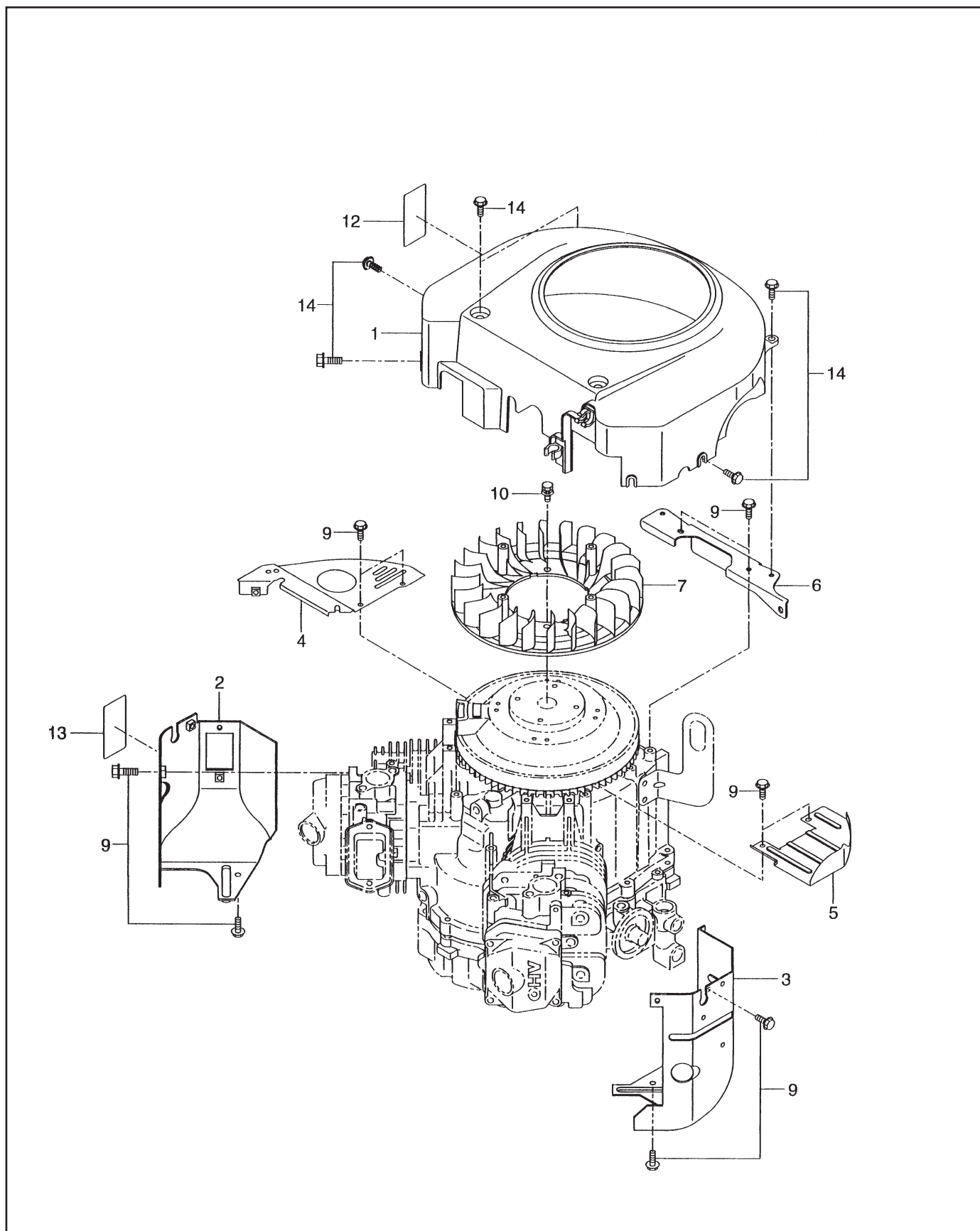


FIG. 6 COOLING and STARTING GROUP

[illegible]

FIG. 7 FUEL, LUBRICANT GROUP

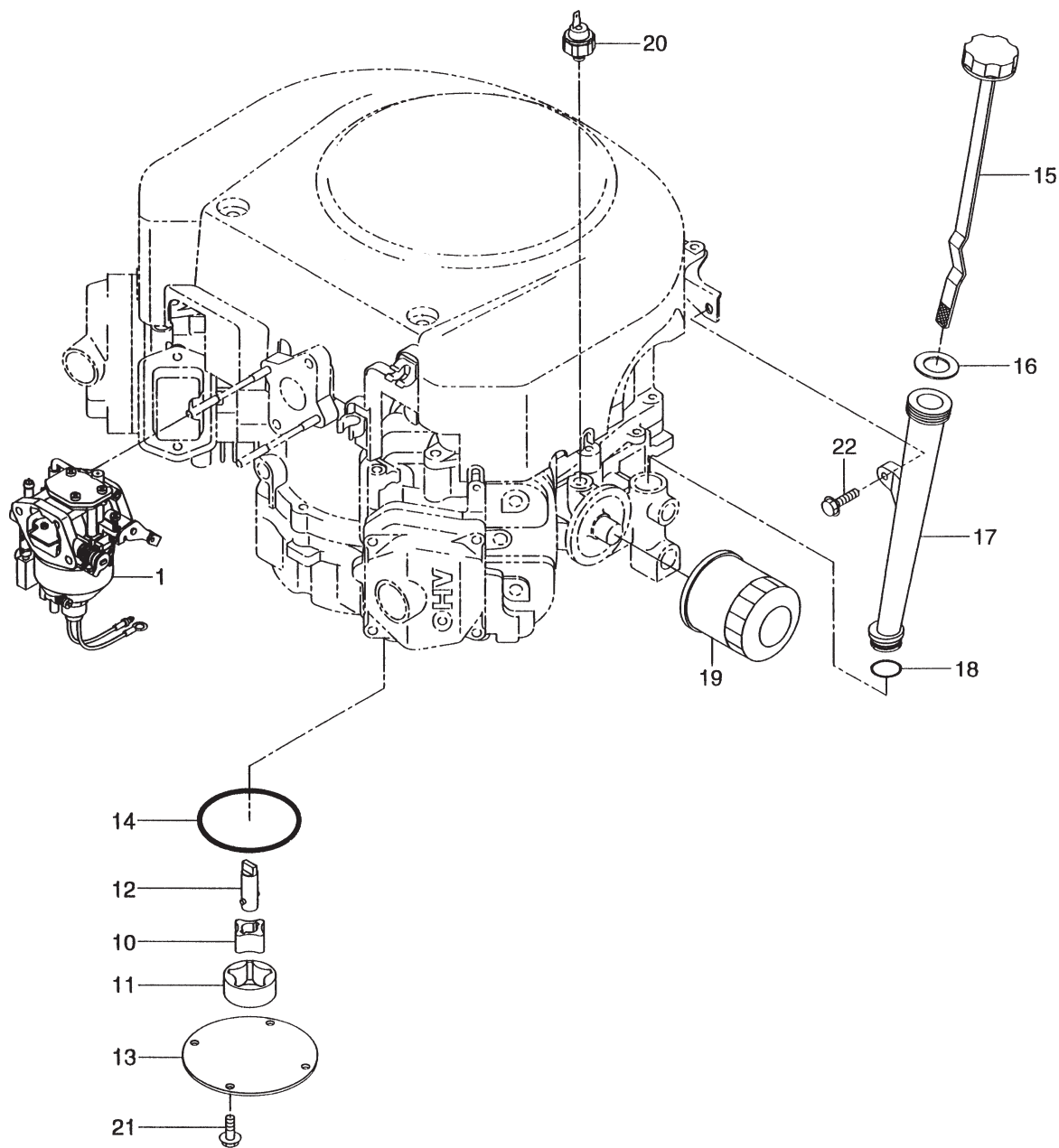


FIG. 7 FUEL, LUBRICANT GROUP

[illegible]

FIG. 8 CARBURETOR GROUP

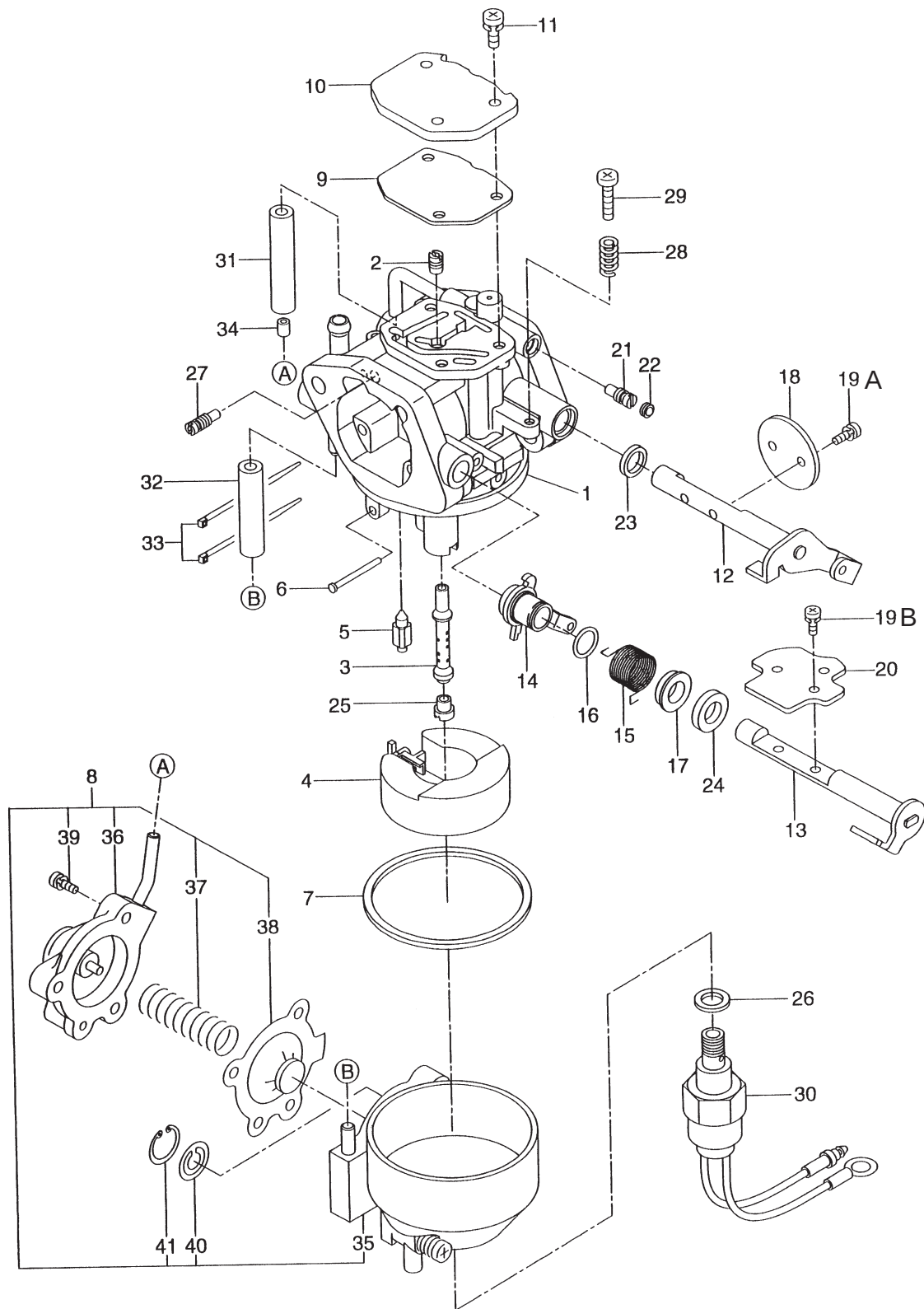


FIG. 8 CARBURETOR GROUP

REF	PART NUMBER	DESCRIPTION	QTY	REMARKS
1	263-62371-10	CARBURETOR	1	
2	263-62422-08	SLOW JET AY	1	
3	263-62440-08	MAIN NOZZLE	1	
4	263-62505-08	FLOAT	1	
5	263-62501-08	FLOAT VALVE	1	
6	263-62515-08	FLOAT PIN	1	
7	263-62575-08	FLOAT CHAMBER GASKET	1	
8	263-62581-08	FLOAT CHAMBER	1	
9	263-62545-08	PASSAGE COVER GASKET	1	
10	263-62565-08	PASSAGE COVER	1	
11	263-62585-08	SCREW	3	
12	263-62533-08	THROTTLE SHAFT AY	1	
13	263-62521-08	CHOKE SHAFT	1	
14	263-62522-08	CHOKE LEVER	1	
15	263-62445-08	CHOKE ARM, return spring	1	
16	258-62551-08	CHOKE LEVER RING	1	
17	258-62553-08	CHOKE COLLAR	1	
18	263-62536-08	THROTTLE VALVE	1	
19A	258-62559-08	SCREW, throttle valve set	2	
19B	261-62352-08	SCREW, choke valve set	2	
20	263-62525-08	CHOKE VALVE	1	
21	261-62435-08	NEEDLE	1	
22	261-62358-08	EXPANSION PLUG	1	
23	263-62590-08	AIR FILTER	1	
24	258-62554-08	CHOKE SHAFT FILTER	1	
25	263-62404-08	MAIN JET	1	#128
26	215-62430-08	GASKET	1	
27	263-62410-08	SLOW AIR BLEED JET	1	
28	226-62446-08	SPRING THROTTLE ADJUST SCREW	1	
29	263-62586-08	ROUND MACHINE SCREW	1	
30	263-62558-08	SOLENOID VALVE AY	1	
31	263-62356-08	VACUUM HOSE	1	
32	263-62357-08	FUEL HOSE	1	
33	107-62381-08	NYLON BAND	1	
34	263-62450-08	JET	1	
35	263-62582-08	FLOAT CHAMBER AY	1	
36	263-62359-08	COVER	1	
37	263-62320-08	SPRING THROTTLE ADJUST SCREW	1	
38	263-62358-08	DIAPHRAGM AY	1	
39	263-26587-08	SCREW	3	
40	263-62354-08	CHECK VALVE	1	
41	263-62355-08	"C" RING	1	

FIG. 9 ELECTRIC DEVICE GROUP

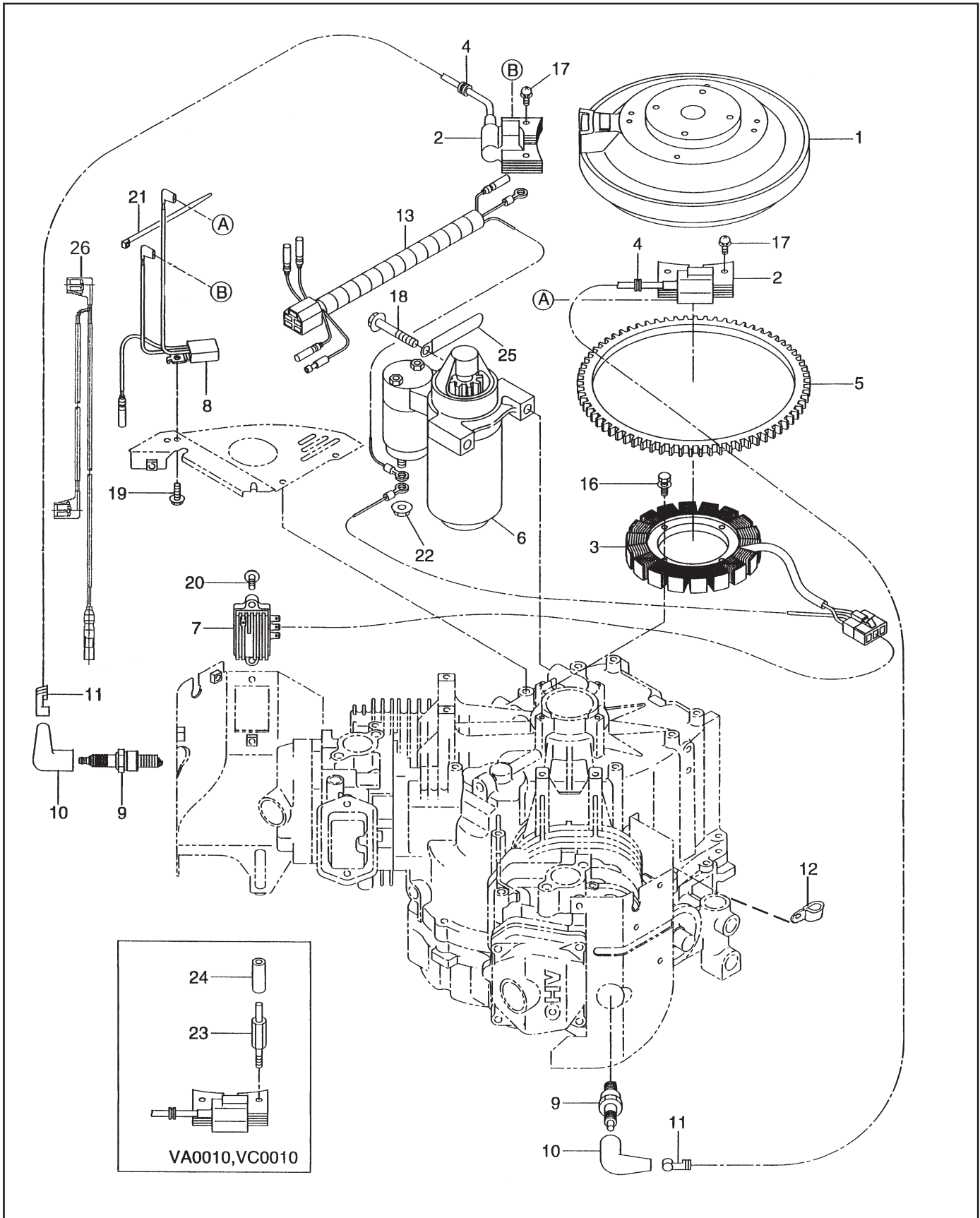


FIG. 9 ELECTRIC DEVICE GROUP

[illegible]

FIG. 10 STARTING MOTOR GROUP

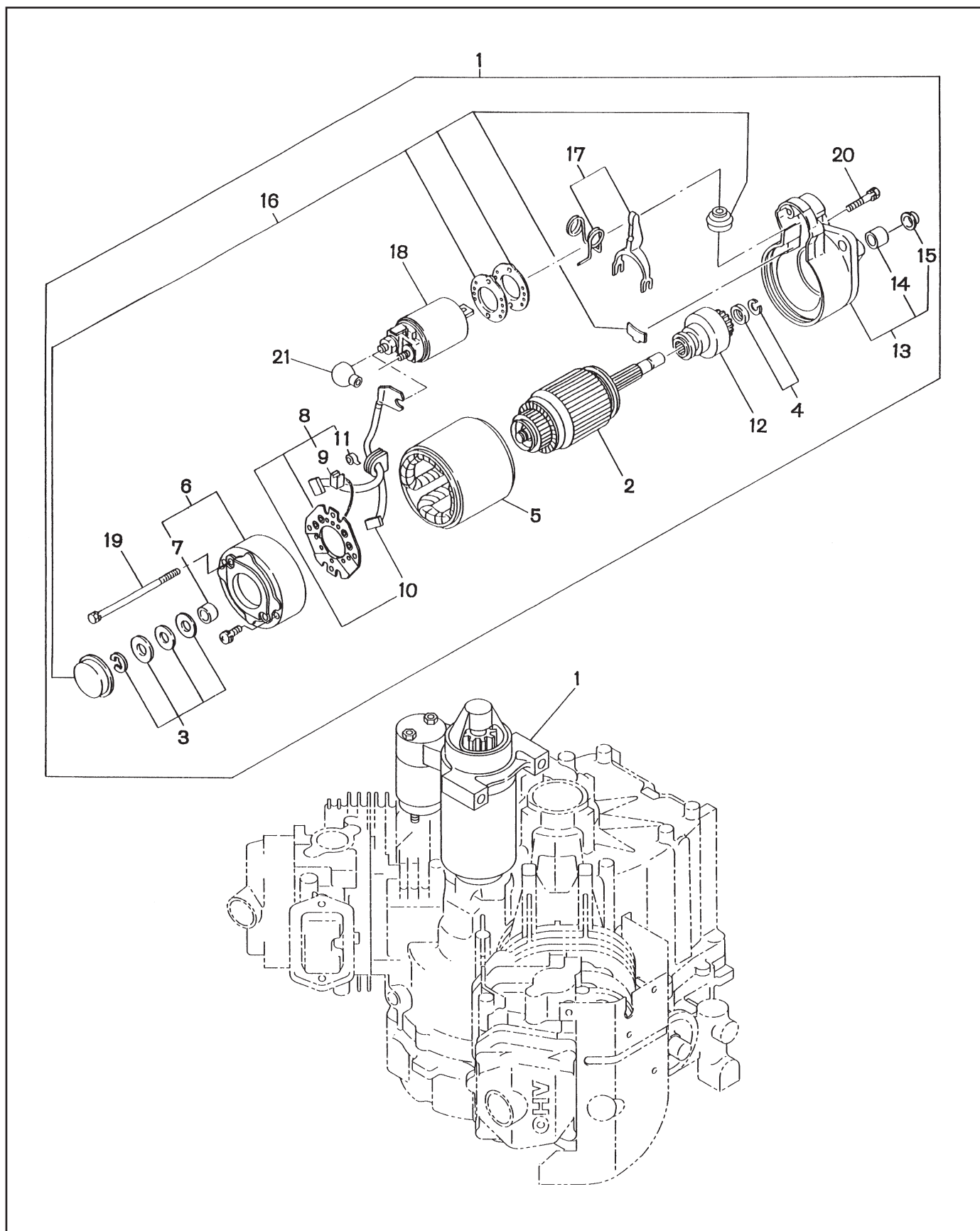


FIG. 10 STARTING MOTOR GROUP

[illegible]

FIG. 11 SHIP LOOSE ITEMS

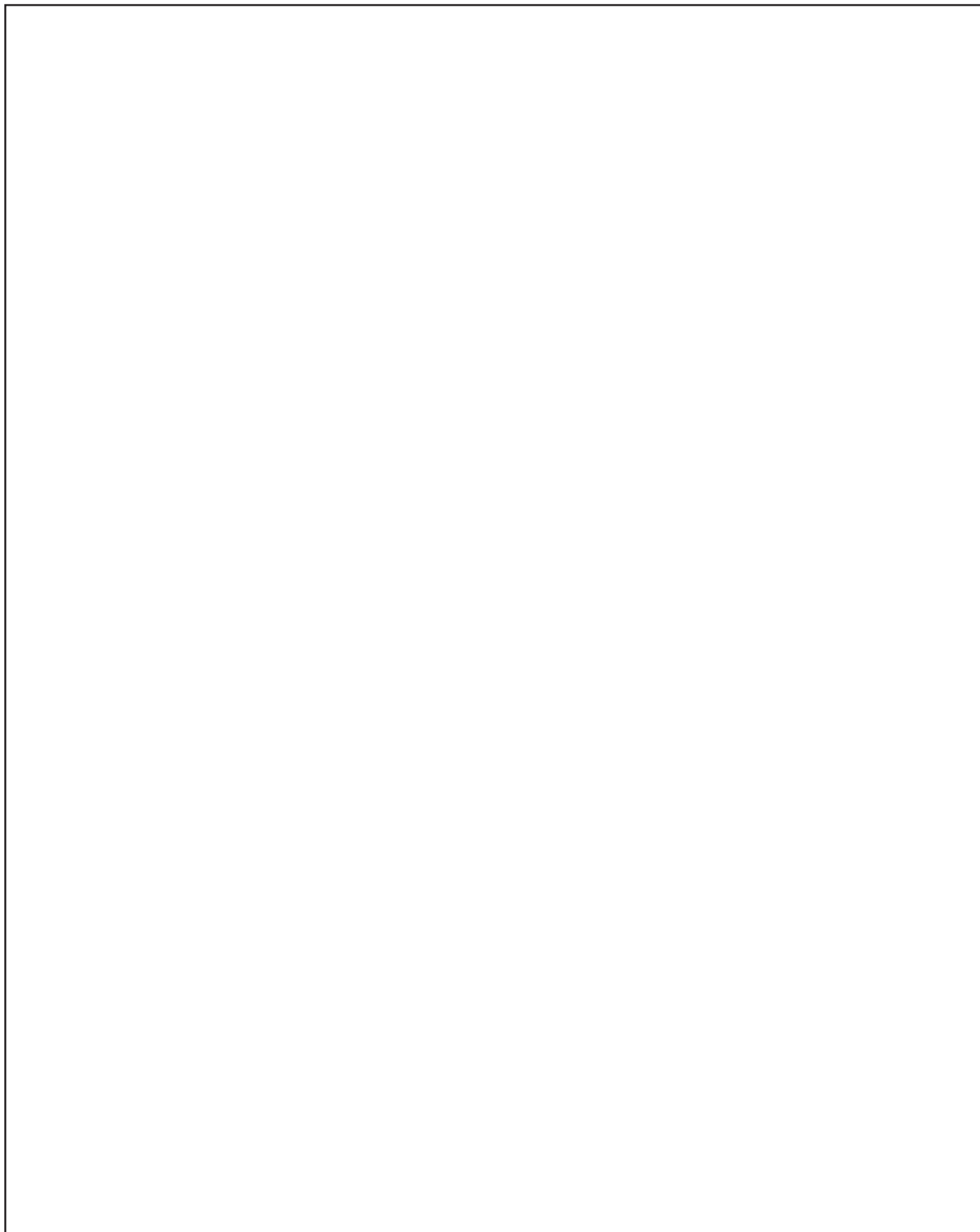


FIG. 11 SHIP LOOSE ITEMS

[illegible]

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