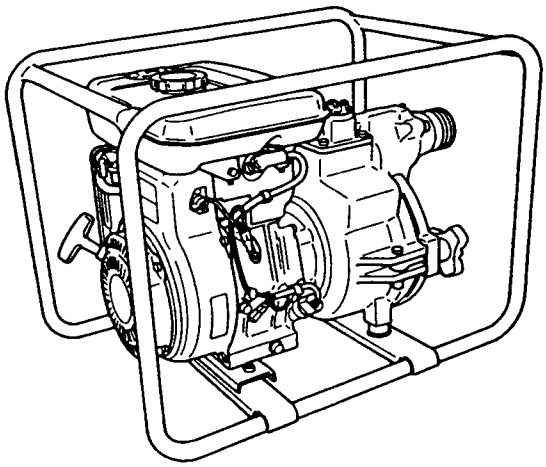
2" CENTRIFUGAL PUMP Model EW210R



PARTS BREAKDOWN

Contents

1) PUMP, ACCESSOREIS

2) CRANKCASE

3) CRANKSHAFT and PISTON

4) INTAKE and EXHAUST

5) GOVERNOR, OPERATION

6) COOLING, STARTING

7) FUEL, LUBRICANT

8) MAGNETO

9) OIL SENSOR

IMPORTANT — To assure product SAFETY and RELIABILITY, repairs, maintenance or adjustments should be performed by MAKITA Service Centers or other qualified service organizations. Always use MAKITA replacement parts.

1) PUMP, ACCESSOREIS

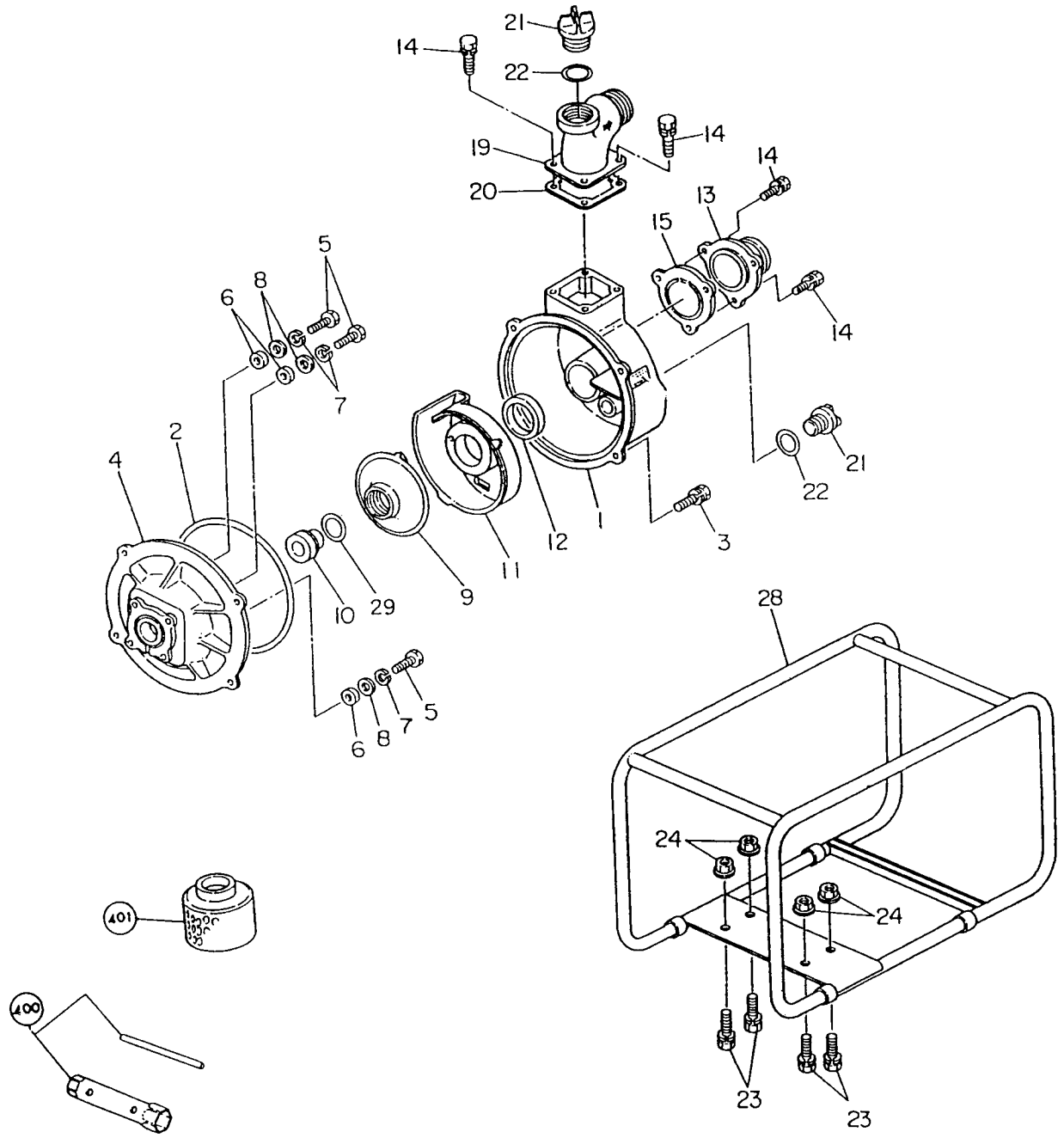


Fig.	Part No.	Qty. Used	Description
1	480-05010-01	1	CASING
2	480-05010-02	1	PACKING, CASING
3	480-05010-03	4	BOLT & WASHER Ass'y
4	480-05010-04	1	CASING COVER
5	480-05010-05	4	BOLT
6	480-05010-06	4	SEAL PACKING
7	480-05010-07	4	SPRING WASHER
8	480-05010-08	4	WASHER
9	480-05010-09	1	IMPELLER
10	480-05010-10	1	MECHANICAL SEAL
11	480-05010-11	1	INNER CASING
12	480-05010-12	1	PACKING, inner casing
13	481-00000-01	1	SUCTION FLANGE (NPT)
14	480-05010-14	7	BOLT & WASHER Ass'y
15	480-05010-15	1	CHECK VALVE
19	481-00000-03	1	DELIVERY FLANGE (NPT)
20	480-05010-20	1	PACKING, delivery flange
21	480-05010-21	2	PLUG
22	480-05010-22	2	PACKING, PLUG
23	480-05010-23	4	BOLT & WASHER Ass'y
24	480-05010-24	4	FLANGE NUT
28	481-00001-24	1	FRAME
29	480-05010-42	1	SHIM 0.3mm } select one
29	480-05010-43	1	SHIM 0.6mm } piece only
			ACCESSORIES
400	227-90301-10	1	TOOL KIT
401	481-00000-04	1	STRAINER (NPT)

2) CRANKCASE

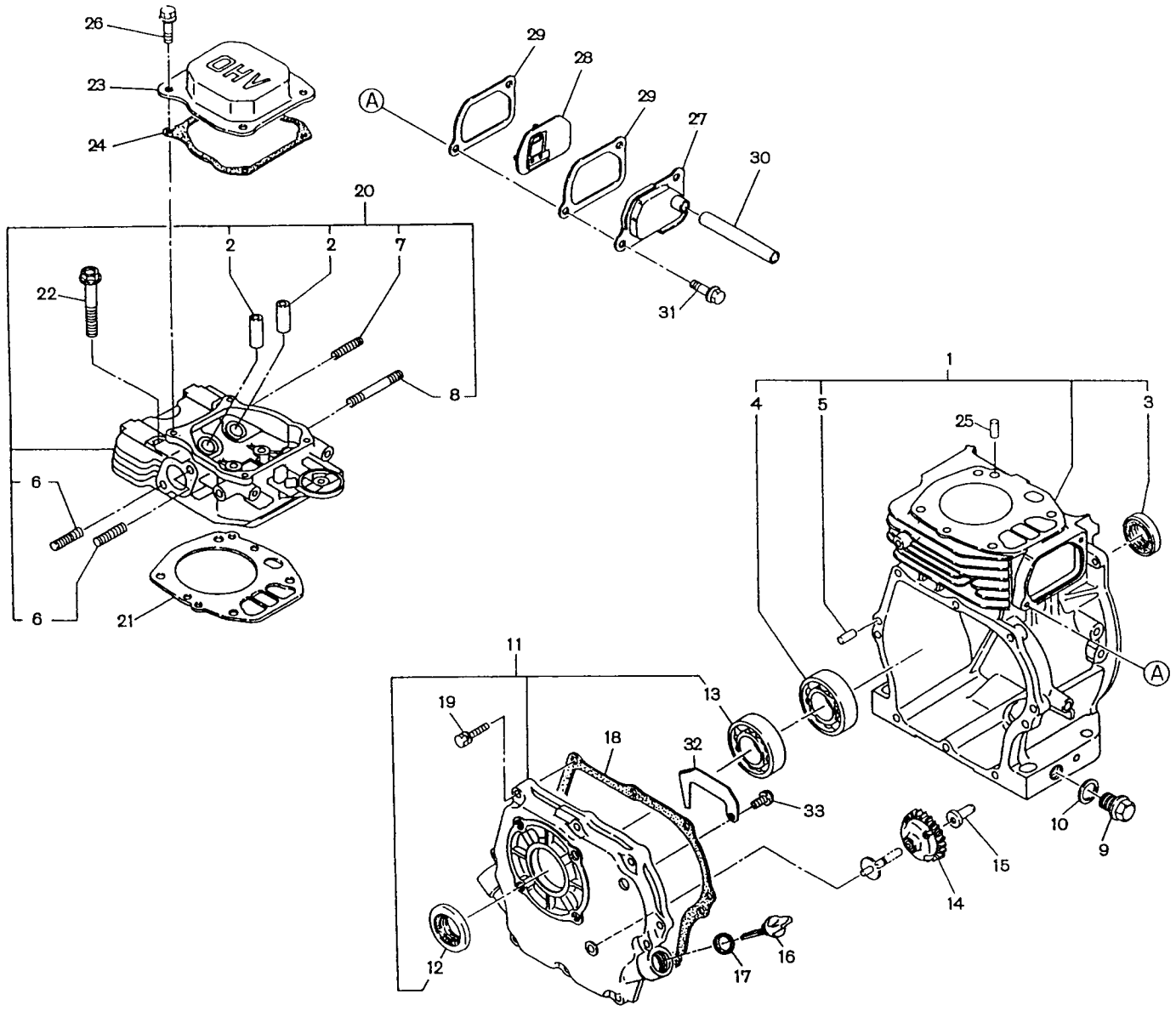


Fig.	Part No.	Qty Used	Description	Fig.	Part No.	Qty Used	Description
1	252-10201-11	1	CRANKCASE cpl.(Incl. Fig.3-5)	18	253-16002-03	1	GASKET, bearing cover
2	237-14202-03	2	VALVE GUIDE (oversize)	19	013-00600-40	8	BOLT & WASHER Ass'y
3	044-02500-70	1	OIL SEAL	20	268-13001-01	1	CYLINDER HEAD cpl., (Incl. Fig.2 & 6-8)
4	060-02500-10	1	BALLBEARING (BB6205C3)				
5	031-00600-20	2	DOWEL PIN	21	253-15001-23	1	GASKET (head)
6	010-50802-90	2	STUD	22	011-00801-00	4	FLANGE BOLT
7	010-50601-31	1	STUD	23	253-15501-03	1	ROCKER COVER
8	001-39066-00	1	STUD	24	269-16004-03	1	GASKET,rocker cover
9	040-11400-30	2	PLUG	25	031-00600-20	2	DOWEL PIN
10	021-11400-20	2	GASKET	26	011-00600-20	4	FLANGE BOLT
11	253-11013-01	1	MAIN BEARING COVER cpl., (Incl. Fig.12 & 13)	27	253-14301-11	1	BREATHER COVER cpl.
				28	253-14401-11	1	BREATHER PLATE cpl.
12	044-02501-60	1	OIL SEAL	29	253-16006-33	2	GASKET,breather cover
13	060-02500-10	1	BALL BEARING(BB6205C3)	30	246-10802-03	1	RUBBER PIPE
14	227-45003-01	1	GOVERNOR GEAR cpl.	31	011-00600-30	2	FLANGE BOLT
15	205-41901-03	1	GOVERNOR SLEEVE	32	253-17502-03	1	SHELTER PLATE
16	269-63601-03	1	OIL GAUGE	33	004-35051-00	1	SCREW & WASHER Ass'y
17	021-31600-20	1	GASKET	*	253-99001-07	1	GASKET SET (STD.)

3) CRANKSHAFT and PISTON

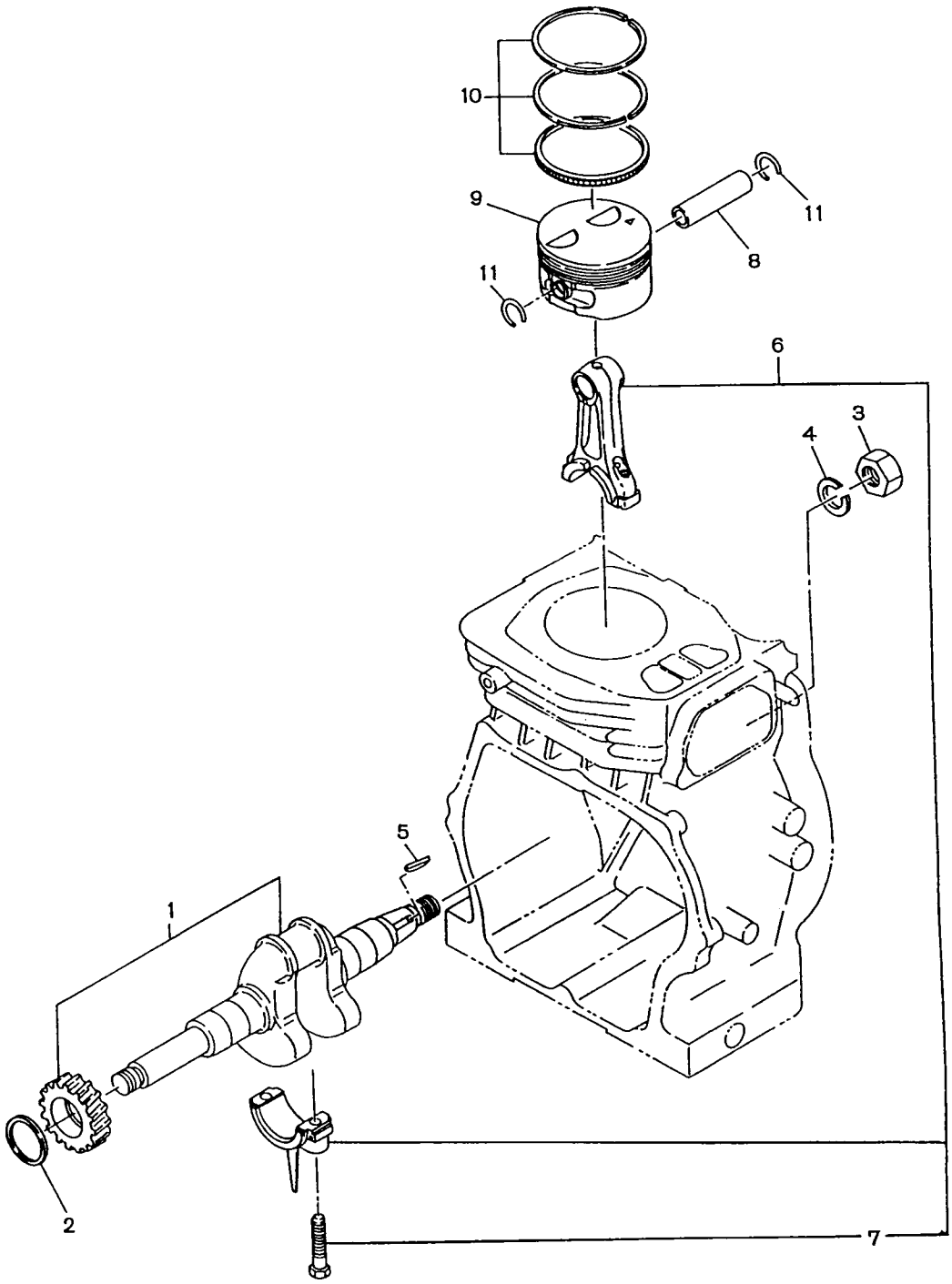


Fig.	Part No.	Qty Used	Description
1	252-20401-01	1	CRANKSHAFT cpl.
2	023-02501-10	1	SPACER (T=0.6) } select
	023-02501-20	1	SPACER (T=0.8) } one piece
	023-02501-30	1	SPACER (T=1.0) } only
3	002-18140-00	1	NUT
4	003-20140-00	1	SPRING WASHER
5	032-30300-10	1	WOODRUFF KEY
6	252-22501-10	1	CONNECTING ROD Ass'y (Incl. Fig.7)
7	236-23001-03	2	CONNECTING ROD BOLT
8	268-23301-03	1	PISTON PIN
9	268-23401-03	1	PISTON (STD.)
	268-23402-03	1	PISTON (oversize0.25mm)
	268-23403-03	1	PISTON (oversize 0.50mm)
10	252-23501-07	1	PISTON RING Set (for STD.)
	252-23502-07	1	PISTON RING Set (oversize 0.25mm)
	252-23503-07	1	PISTON RING Set (oversize 0.50mm)
11	215-25004-03	2	CLIP

4) INTAKE and EXHAUST

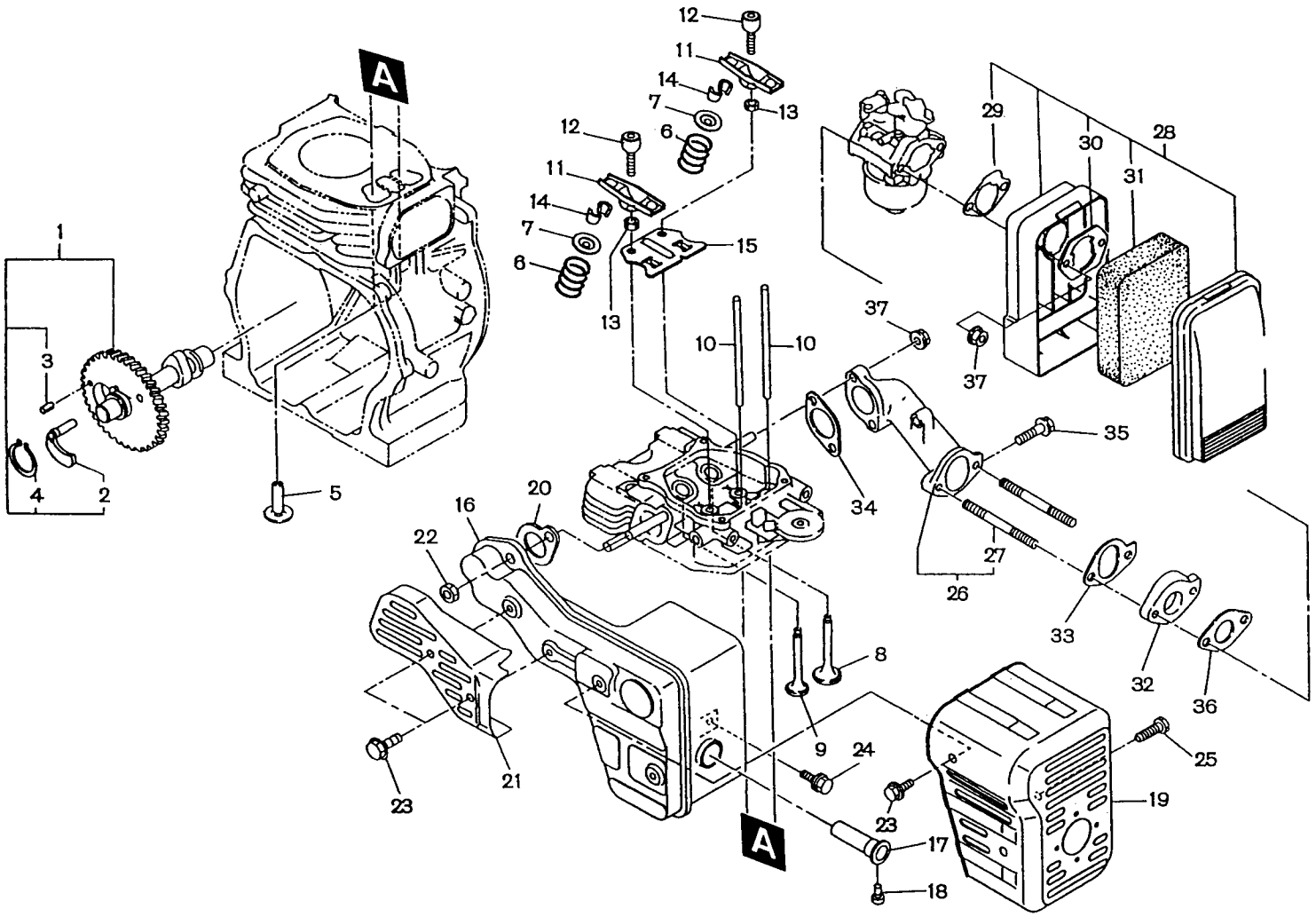


Fig.	Part No.	Qty Used	Description	Fig.	Part No.	Qty Used	Description
1	253-31701-11	1	CAMSHAFT cpl.(Incl. Fig.2-4)	20	253-35201-03	1	GASKET (muffler)
2	227-36401-03	1	RELEASE LEVER	21	269-34801-03	1	EXHAUST PIPE COVER
3	005-19041-00	1	SPRING PIN	22	017-00800-30	2	NUT
4	003-15220-00	1	SNAP RING (outer)	23	015-20600-90	4	TAPPING BOLT
5	239-33301-13	2	TAPPET	24	011-00600-20	1	FLANGE BOLT
6	253-33601-03	2	VALVE SPRING	25	015-20600-80	1	TAPPING BOLT
7	132-09KA0-40	2	RET VALVE SPRING	26	253-33001-01	1	INTAKE PIPE cpl., (Incl. Fig. 27)
8	268-33401-03	1	INTAKE VALVE				
9	268-33501-03	1	EXHAUST VALVE	27	010-50602-30	2	STUD
10	268-35301-03	2	PUSH ROD	28	269-32601-00	1	AIR CLEANER Ass'y (Incl. Fig.29-31)
11	261-36001-A3	2	ROCKER ARM				
12	269-35801-03	2	BOLT (pivot)	29	227-36004-13	1	PACKING
13	017-00600-90	2	NUT	31	269-32610-08	1	ELEMENT
14	132-10KA0-31	4	COLLET VALVE	32	253-32901-03	1	INSULATOR
15	269-36501-03	1	GUIDE PLATE	33	253-35901-03	1	GASKET 3 (insulator)
16	268-30105-00	1	MUFFLER Ass'y.	34	227-35901-03	1	GASKET (insulator)
17	269-37601-01	1	SPARK ARRESTER cpl.	35	011-00601-30	1	FLANGE BOLT
18	015-00400-60	1	TAPPING SCREW	36	236-35903-03	1	GASKET 2 (insulator)
19	253-34201-11	1	MUFFLER COVER	37	002-38060-00	4	FLANGE NUT

5) GOVERNOR, OPERATION

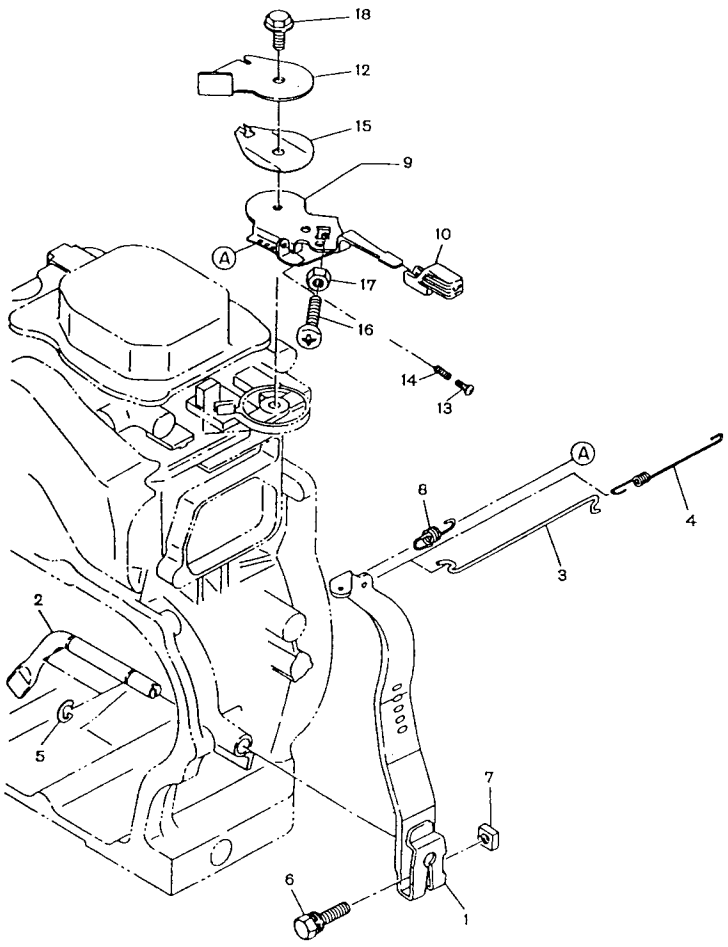


Fig.	Part No.	Qty. Used	Description
1	252-42301-23	1	GOVERNOR LEVER
2	227-42201-03	1	GOVERNOR SHAFT
3	253-42701-01	1	GOVERNOR ROD
4	253-42801-03	1	ROD SPRING
5	003-13060-00	2	CLIP
6	001-14063-00	1	BOLT & WASHER Ass'y
7	018-60600-20	1	NUT
8	252-42501-13	1	GOVERNOR SPRING
9	269-43301-00	1	SPEED CONTROL Ass'y. (Incl. Fig. 10)
10	227-43601-03	1	KNOB
12	269-43501-03	1	STOP PLATE
13	004-31043-00	1	P.H. SCREW
14	269-45503-03	1	IDLE SET SPRING
15	227-45002-03	1	SPRING WASHER
16	004-31063-00	1	SCREW
17	002-27060-00	1	NUT
18	011-00600-30	1	FLANGE BOLT

6) COOLING, STARTING

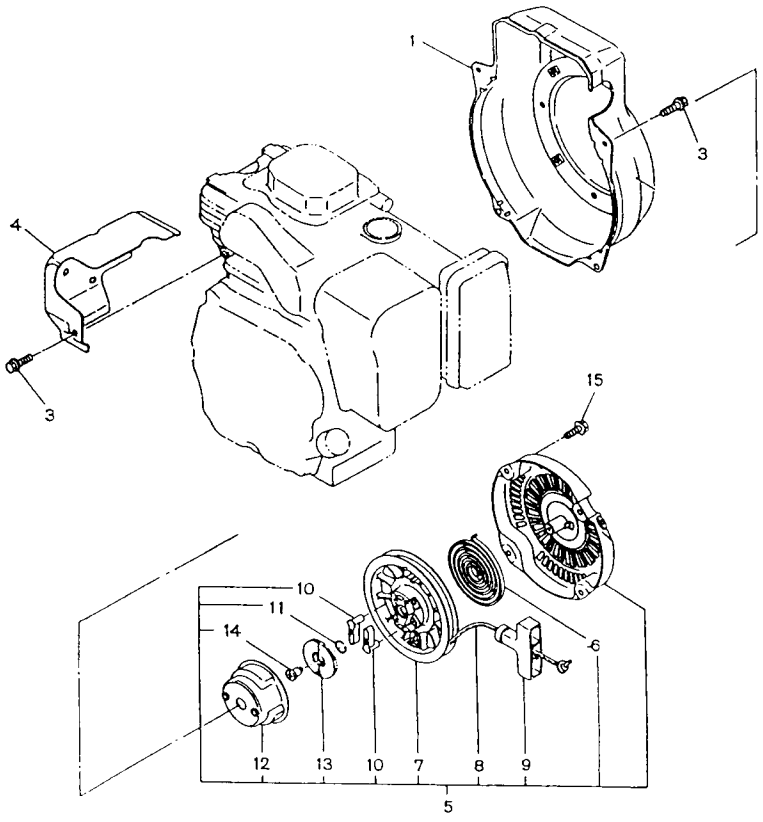


Fig.	Part No.	Qty Used	Description
1	268-51281-01	1	BLOWER HOUSING cpl.
3	011-00600-20	5	FLANGE BOLT
4	253-52701-03	1	HEAD COVER
5	268-50201-00	1	RECOIL STARTER Ass'y (Incl. Fig. 6-14)
6	270-50115-08	1	SPIRAL SPRING
7	269-50120-08	1	REEL
8	269-50110-08	1	STARTER ROPE
9	261-50100-08	1	STARTER KNOB
10	270-50125-08	2	RATCHET
11	227-50131-08	1	FRICTION SPRING
12	268-50145-08	1	STARTER PULLEY
13	270-50261-08	1	RATCHET GUIDE
14	227-50152-08	1	SET SCREW
15	011-00600-10	4	FLANGE BOLT

7) FUEL, LUBRICANT

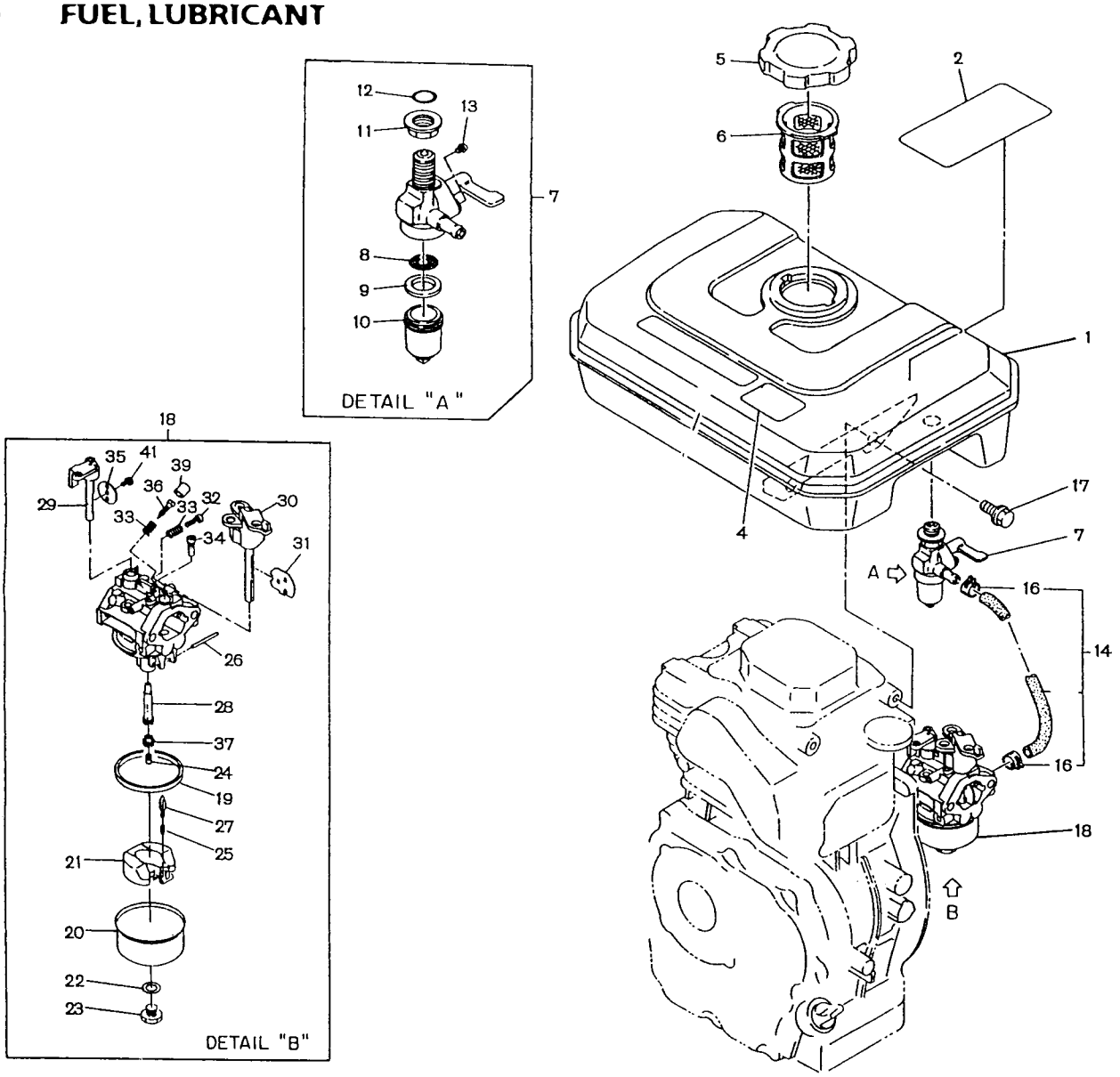


Fig.	Part No.	Qty Used	Description
1	253-60119-01	1	FUEL TANK cpl.
2	073-20049-90	1	LABEL (warning)
4	073-20045-20	1	LABEL (oil caution)
5	043-04300-15	1	FUEL TANK CAP
6	064-13600-10	1	FUEL FILTER
7	064-20084-00	1	FUEL STRAINER Ass'y (Incl. Fig. 8-13)
8	064-20042-20	1	FILTER
9	064-20064-10	1	PACKING
10	064-20078-10	1	CUP
11	064-20084-10	1	NUT
12	064-20084-20	1	O RING
13	064-20047-90	1	P.H. SCREW
14	269-62601-01	1	FUEL PIPE cpl.,(Incl. Fig. 16)
16	056-11100-20	2	HOSE CLAMP
17	011-00600-30	4	FLANGE BOLT
18	252-62450-00	1	CARBURETOR Ass'y (Incl. Fig. 19-41)
19	236-62540-08	1	PACKING (chamber)
20	236-62551-08	1	FLOAT CHAMBER
21	236-62505-08	1	FLOAT
22	236-62450-08	1	PACKING
23	236-62451-08	1	BOLT
24	252-62401-08	1	MAIN JET (#66.3)
25	236-62445-08	1	SPRING
26	236-62510-08	1	FLOAT PIN
27	161-62352-08	1	NEEDLE VALVE
28	252-62440-08	1	MAIN NOZZLE
29	253-62532-08	1	SHAFT Ass'y(throttle)
30	253-62522-08	1	CHOKE LEVER
31	253-62525-08	1	VALVE (choke)
32	246-62435-08	1	ADJUST SCREW
33	209-62445-08	2	SPRING
34	252-62420-08	1	PILOT JET (#46.3)
35	220-62535-08	1	THROTTLE VALVE (#170)
36	246-62436-08	1	ADJUSTER
37	235-62425-08	1	GUIDE HOLDER
39	246-62551-08	1	CAP
41	253-62352-08	1	SCREW

8) MAGNETO

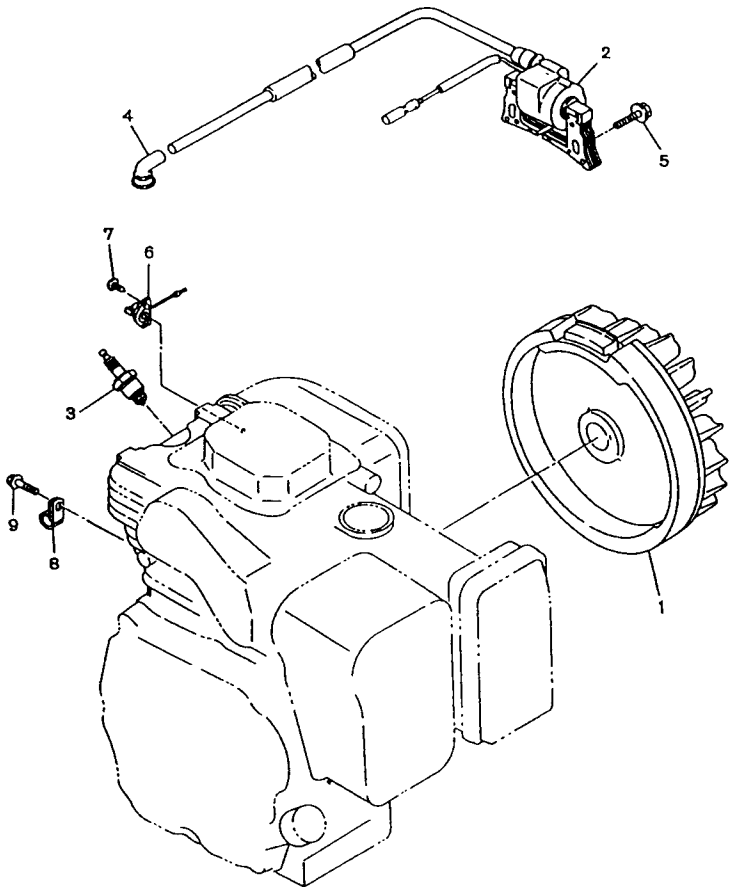


Fig.	Part No.	Qty Used	Description
1	268-79330-01	1	FLYWHEEL cpl.
2	269-79430-01	1	IGNITION COIL cpl.
3	065-01401-00	1	SPARK PLUG (B6ES)
4	065-50000-51	1	SPARK PLUG CAP
5	001-14062-50	2	BOLT & WASHER Ass'y
6	066-00003-61	1	SWITCH Ass'y
7	015-00400-90	2	TAPPING SCREW
8	056-61200-50	1	CLAMP
9	001-10081-60	1	BOLT & WASHER Ass'y

9) OILSENSOR

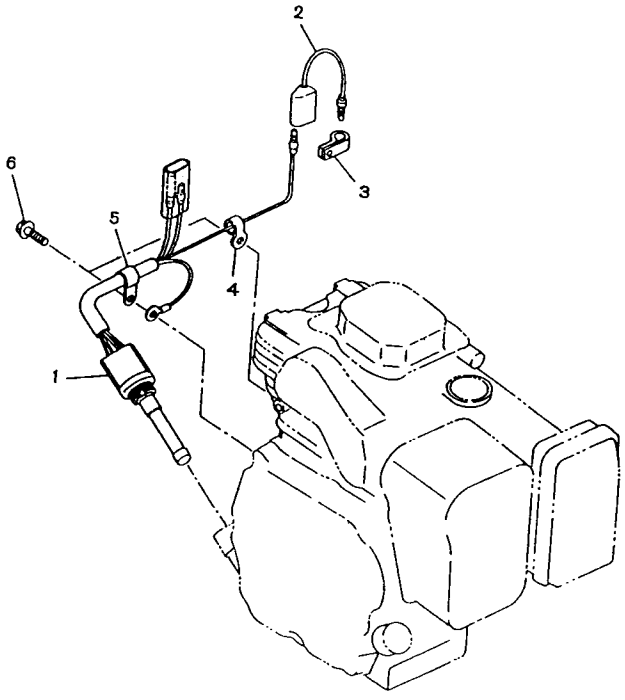


Fig.	Part No.	Qty Used	Description
1	KS3-11022-11	1	OIL SENSOR cpl.
2	214-73122-01	1	WIRE 22 cpl.
3	206-75501-01	1	CLAMP
4	207-75001-01	1	CLAMP
5	214-79003-01	1	CLAMP
6	001-10081-60	2	BOLT & WASHER Ass'y