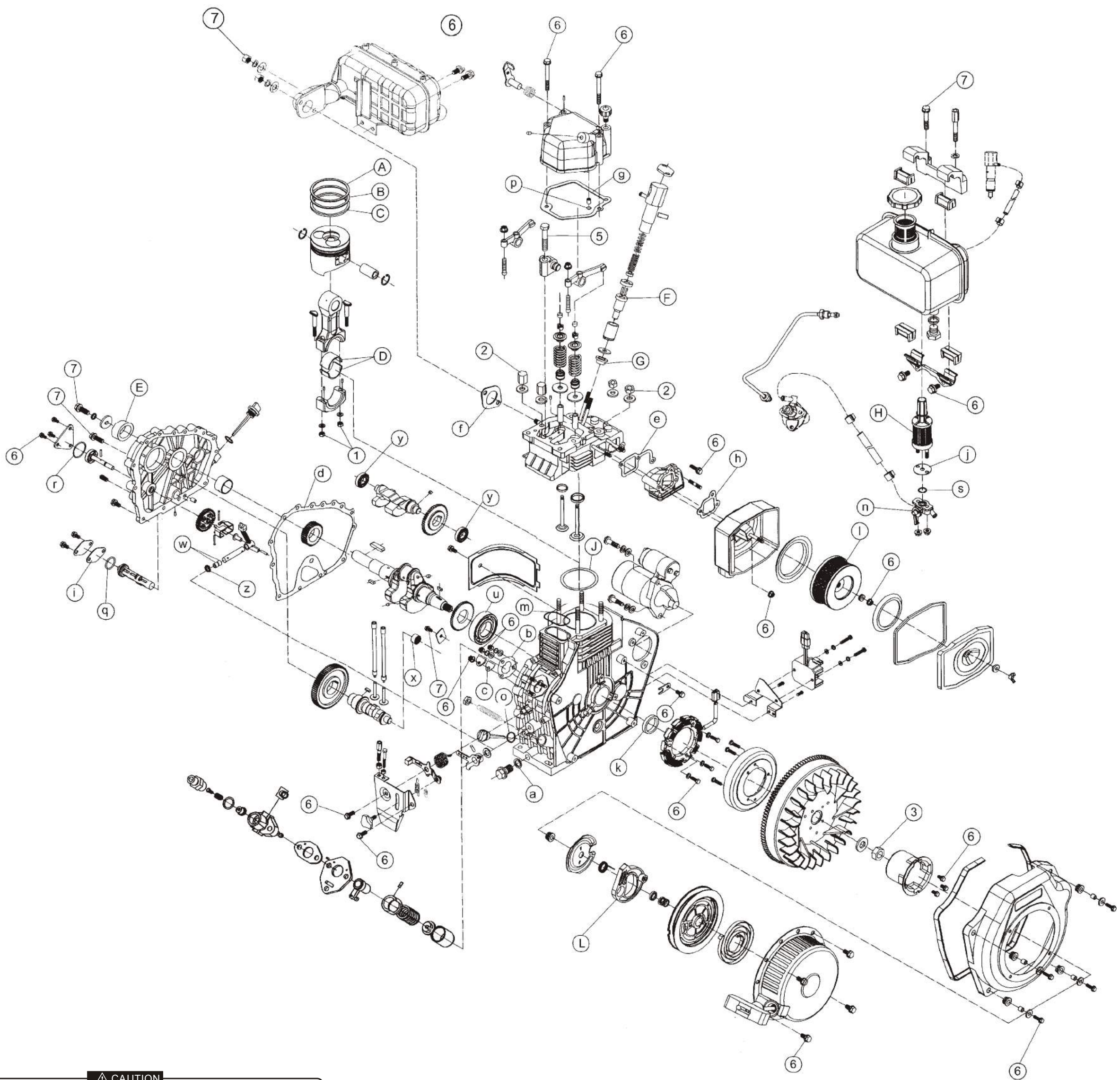


This catalog covers:
KM170

PARTS CATALOG

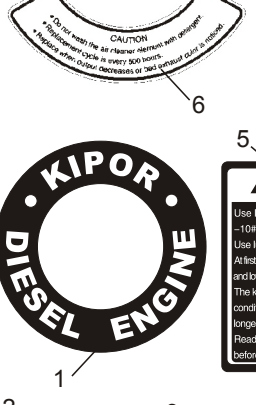
AIR-COOLED DIESEL ENGINE KM170

KIPOR



CAUTION

The structure presented in this part catalog may be different somewhat from our improved types in future.
Then you'd better refer parts catalog to the operation manual when using.



HOW TO START

CAUTION

WARNING

READ MANUAL CAREFULLY BEFORE OPERATION

DANGER

DIESEL

WARNING: EXTREMELY FLAMMABLE

TAGS

Ref No.	Part No.	Description	Qty.
1	KM168F-18003	Trademark Tag I	1
2	KM168F-18004	Starting Operation Tag	1
3	KM168F-18005	Caution Tag	1
4	KM170F-18007	Model Tag II	1
5	KM168F-18009	Warning Tag	1
6	KM168F-18012	Air Cleaner Tag	1
7	KM168F-18013	Air Cleaner Tag	1

BEARINGS

Ref No.	Part No.	Description	Qty.
U	GB/T276-1994	Ball Bearing 6306/P5	1
w	GB/T290-1989	Needle Bearing 7941/8	2
x	GB/T290-1989	Needle Bearing HK1512	1
y	GB/T276-1994	Ball Bearing 6202/P5	2

OIL SEAL

Ref No.	Part No.	Description	Qty.
z	KM168F-11008	Lever Shaft Oil Seal	1

WASHER KIT

Ref No.	Part Number	Description	Qty.
a	KM168F-01100	Washer Unit of Drain Plug	1
b	KM168F-10014	Fuel Injection Pump Washer	2-3
c	KM168F-10016	Joint Washer	1
d	KM168F-01015	Crankcase Cover Washer	1
e	KM168F-02014	Intake Pipe Washer	1
f	KM168F-02015	Muffler Washer	1
g	KM168F-03003	Cylinder Head Cover Washer	1
h	KM168F-07001	Air Cleaner Washer	1
i	KM168F-09002	Washer of Engine Oil Filter Cover Board	1
j	KM168F-10007	Fuel Filter Washer	1

RINGS

Ref No.	Part No.	Description	Qty.
m	KM168F-01008	Sheet Gasket	1
n	GB/T1235-1976	O-Ring 11 × 1.9	1
o	GB/T1235-1976	O-Ring 22.5 × 2.4	2
p	GB/T1235-1976	O-Ring 12 × 1.9	1
q	GB/T1235-1976	O-Ring 25 × 2.4	1
r	GB/T3452.1-1992	O-Ring 34 × 1.8	1
s	GB/T3452.1-1992	O-Ring 13.2 × 1.8	1

FASTENING TORQUE OF MAIN BOLTS & NUTS

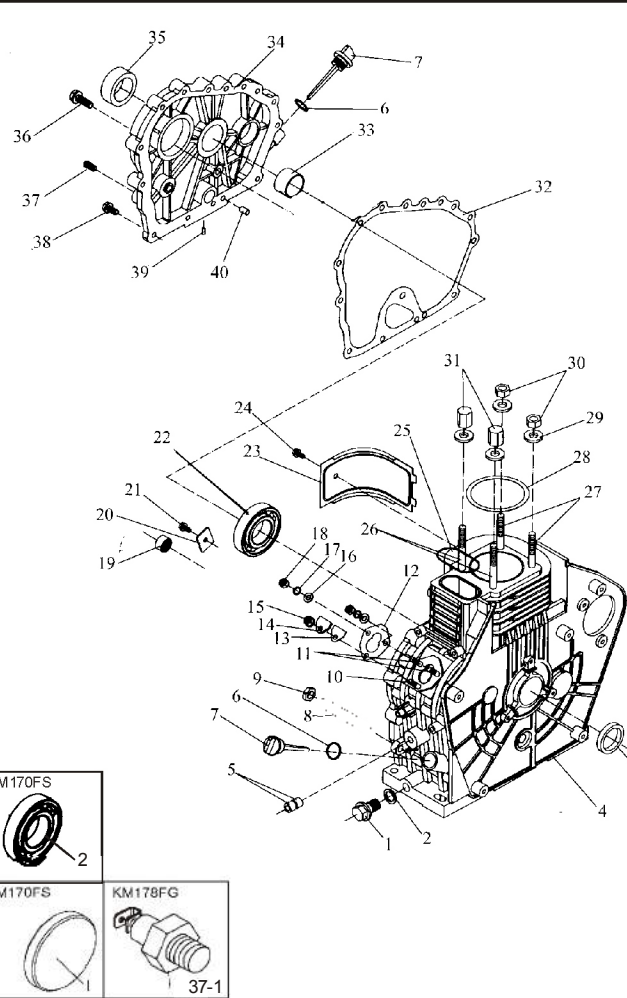
Ref No.	Description	Torque
①	Connecting Rod Nut	18~21
②	Cylinder Head Nut	28~32
③	Flywheel Nut	100~120
④	Nozzle Retainer Nut	10~12
⑤	Set Bolt of Rocker Arm Seat	20~23
⑥	Standard Bolt / Nut M6	10~12
⑦	Standard Bolt / Nut M8	18~20

EASY DESTROYED PARTS

Ref No.	Part No.	Description	Qty.	Mounted to
A	KM170F-04001	First Air Ring	1	(4)Piston & Connecting Rod Assem
B	KM170F-04002	Second Air Ring	1	(4)Piston & Connecting Rod Assem
C	KM170F-04100	Oil Ring Unit	1	(4)Piston & Connecting Rod Assem
D	KM168F-04005	Connecting Rod Bushing	2	(4)Piston & Connecting Rod Assem
E	GB/T9877.1-1988	Oil Seal SG25 × 42 × 8(front)	1	(1)Cylinder Block Assem
F	KM170F-13100	Nozzle	1	(8)Fuel Injection Valve Assem
G	KM168F-02011	Heat Insulator	1	(2)Cylinder Head Assem
H	KM168F-10300	Element Unit	1	(11)Fuel System
I	KM168F-07100	Air Cleaning Element Unit	1	(7)Air Intake System
J	KM170F-01013	Cylinder Head Gasket	1	(1)CylinderBlock Assem.
K	GB/T9877.1-1988	Oil Seal SG30 × 45 × 8(rear)	1	(1)CylinderBlock Assem.
L	KM168F-14001	Ratchet	1	(14)Manual Starting Assem.

KIPOR POWER CO., LTD.

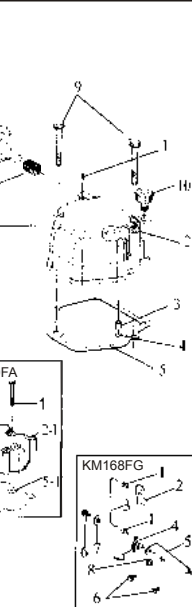
①



(1) Cylinder Block Assem. (KM170F-01000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-01018	Drain Plug Screw	1
2	KM168F-01100	Washer Unit of Drain Plug	1
3	GB/T9877-1-1988	Oil Seal SG30×45×8(rear)	1
4	KM170F-01001	Cylinder Block	1
5	KM170FA-01001	Cylinder Block	1
6	GB/T230-1989	Needle Bearing7941/8	2
7	GB/T1235-1976	O-Ring 22.5×2.4	2
8	KM168F-01002	Oil Dipstick	2
9	KM168F-11200	Fuel Controller Assem.	1
10	GB/T6173-2000	Nut M10×1.25	1
11	KM168F-01012	Forcing Stud of Fuel Injection Pump (short)	1
12	KM168F-01011	Forcing Stud of Fuel Injection Pump (long)	2
13	KM168F-10014	Fuel Injection Pump Washer	2-3
14	KM168F-10016	Joint Washer	1
15	KM168F-10015	Seal Plate	1
16	GB/T177-1-2000	Nut M6	1
17	GB/T97-1-1985	Gasket 6	2
18	GB/T170-2000	Gasket 6	2
19	GB/T93-1987	Gasket 6	2
20	GB/T170-2000	Nut M6	1
21	GB/T230-1989	Needle Bearing HK1512	1
22	KM168F-01009	Thrust Plate	1
23	GB/T5789-1986	Bolt M8×12	1
24	GB/T276-1994	Ball Bearing 6306/P5	1
25	KM168F-01019	Ball Bearing 6306/P5	1
26	GB/T5789-1986	Bolt M6×12	1
27	KM168F-01008	Sheet Gasket	1
28	KM168F-01006	Cylinder Head Stud Bolt (long)	2
29	KM168F-01003	Cylinder Head Stud Bolt (short)	2
30	KM170F-01013	Cylinder Head Shim	1
31	KM170FA-01013	Cylinder Head Shim	1
32	KM168F-01005	Crankcase Cover Washer	4
33	KM168F-01004	Cylinder Head Nut (Thin)	2
34	KM168F-01007	Cylinder Head Nut (Thick)	2
35	KM168F-01015	Crankcase Cover Washer	1
36	KM168F-01014	Ball Bearing	1
37	KM168F-01016a	Crankcase Cover	1
38	KM170FS-01016	Crankcase Cover	1
39	GB/T8977-1-1988	Oil Seal SG25×42×8(front)	1
40	GB/T5789-1986	Bolt M8×33.5	1
41	KM168F-01017	Hexagonal Internal Screw Plug	1
42	KM178FG-01300	Oil Indicator	1
43	GB/T5789-1986	Bolt M6×25	14
44	KM168F-01021	Plunger	2
45	GB/T119-1-2000	Pin 8×12	2
46	KM170FS-01000	Block	1
47	GB/T276-1994	Ball Bearing 6205/P5	1

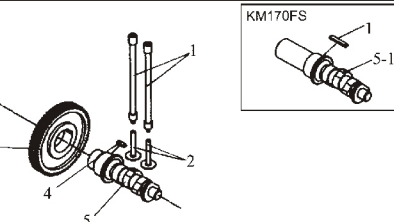
③



(3) Cylinder Head Cover Assem. (KM168F-03000)

Ref No.	Parts No.	Description	Qty.
1	GB/T119-1986	Pin 3×16	1
2	KM168F-03001	Cylinder Head Cover	1
3	KM170FA-03001	Cylinder Head Cover	1
4	KM168F-03007	Breather Seal	1
5	GB/T1235-1976	O-Ring 12×1.9	1
6	KM168F-03003	Cylinder Head Cover Washer	1
7	KM170FA-03003	Cylinder Head Cover Washer	1
8	KM168F-01021	Plunger	1
9	KM168F-03004	Decompression Spring	1
10	KM168F-03100	Decompression Shaft Assem.	1
11	GB/T5789-1986	Bolt M6×55	2
12	KM168F-03005	Filler Screw Plug	1
13	38FG-03000	Decompression Wire Sheath	2
14	KM168F-03102	Decompression Shaft Assem.	1
15	KM168FG-03011	Decompression Wire	1
16	KM178FG-03009	Outer Decompression Handle	1
17	KM178FG-03008	Decompression Handle Support	1
18	GB/T5789-1986	Bolt M6×14	3
19	KM178FG-03013	Outer Decompression Handle Sheath	1
20	GB/T6170-2000	Nut M6	1
21	70FA-03000	Bolt M6×55	3

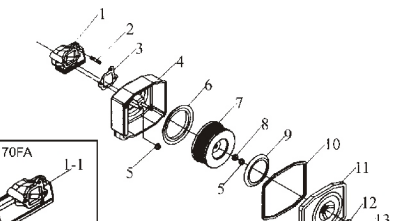
⑥



(6) Camshaft (KM168F-06000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-06100	Valve Push Rod Assem.	2
2	KM168F-06003	Valve Tappet	2
3	KM168F-06002	Camshaft Timing Gear	1
4	GB/T1096-1979	Key 5×14	1
5	KM168F-06001	Camshaft	1
6	KM170FA-06001	Camshaft	1
7	KM170FS-06001	Camshaft	1
8	KM170FS-06000	Camshaft	1
9	GB/T1096-1979	Key5×30	1

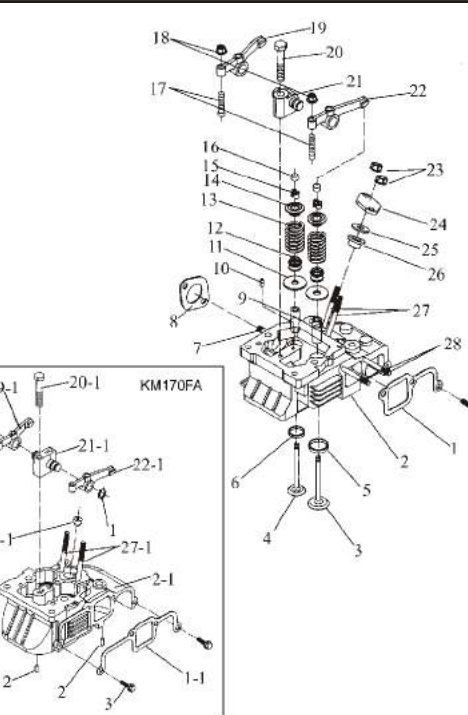
⑦



(7) Air Intake System (KM168F-07000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-07401	Inlet Pipe	1
2	KM170FA-07401	Inlet Pipe	1
3	KM168F-07402	Tightening Bolt of Air Cleaner	1
4	KM168F-07001	Air Cleaner Washer	1
5	KM168F-07300	Air Cleaning Bottom Case Assem.	1
6	GB/T6177-1-2000	Nut M6	4
7	KM168F-07303	Shockproof Sheet Gasket II	1
8	KM168F-07100	Air Cleaner Element Assem.	1
9	KM168F-07203	Shockproof Sheet Gasket I	1
10	KM168F-07201	Sheet Gasket	1
11	KM168F-07202	Air Cleaner Cover	1
12	KM168F-07210	Shockproof Seal Assem.	1
13	GB/T62-1988	Nut M6	1

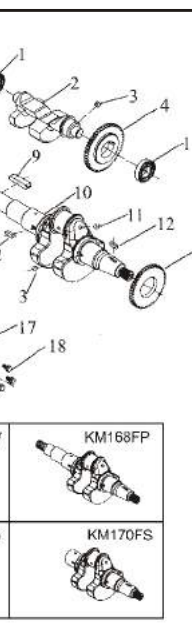
②



(2) Cylinder Head Assem. (KM168F-02000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-02014	Intake Pipe Shim	1
2	KM170FA-02014	Intake Pipe Shim	1
3	KM168F-02202	Cylinder Cover	1
4	KM168F-02202	Cylinder Cover	1
5	KM168F-02004	Intake Valve	1
6	KM168F-02203	Inlet Valve Seat	1
7	KM168F-02204	Exhaust Valve Seat	1
8	GB/T899-1988	Stud AM8×20	2
9	KM168F-02015	Muffler Shim	1
10	KM168F-02201	Air Cover	2
11	GB/T119-1-2000	Pin4×8	2
12	KM168F-02007	Valve Spring Gasket	2
13	KM168F-02006	Valve Conduit Oil Seal	2
14	KM168F-02005	Valve Spring	2
15	KM168F-02002	Valve Spring Seat	2
16	KM168F-02001	Valve Retaining Clip	2
17	KM168F-02016	Valve Adjusting Cushion	2
18	KM168F-02008	Valve Clearance Adjusting Screw	1
19	KM168F-02019	Valve Clearance Adjusting Locking Nut	1
20	KM168F-02012	Exhaust Valve Rocker Arm	1
21	KM170FA-02012	Exhaust Valve Rocker Arm	1
22	KM168F-02017	Set Bolt of Rocker Arm Seat	1
23	KM168F-02100	Set Bolt of Rocker Arm Sea	2
24	KM168F-02100	Rocker Arm Seal Assem.	1
25	KM170FA-02100	Rocker Arm Seal Assem.	1
26	KM168F-02009	Fuel Injection Valve Retainer	2
27	KM168F-02018	Heat Insulator Gasket	1
28	KM168F-02011	Heat Insulator	1
29	KM170FA-02011	Heat Insulator	1
30	GB/T900-1988	Stud AM8×50	1
31	GB/T900-1988	Stud AM8×65	2
32	GB/T900-1988	Stud AM8×55	2
33	GB/T5789-1986	Stud AM8×25	2
34	KM170FA-02000	Retainer Ring12	1
35	GB/T894-1-1986	Pin4×8	2
36	GB/T119-1-2000	Pin4×8	2
37	GB/T5789-1986	Bolt M6×25	1

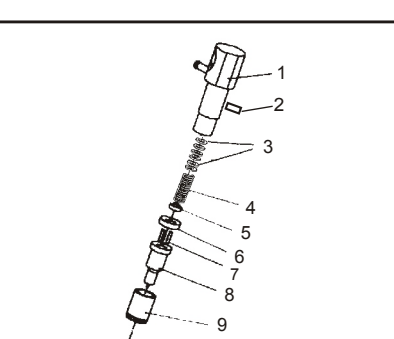
⑤



(5) Crankshaft & Flywheel Assem. (KM168F-05000)

Ref No.	Parts No.	Description	Qty.
1	GB/T276-1994	Ball Bearing 6202/P5	2
2	KM168F-05001	Balance shaft	1
3	KM168F-05006	Key	2
4	KM170FS-05004	Drive Gear of Balance Shaft	1
5	KM168F-05007	Output End Set Bolt	1
6	GB/T93-1987	Gasket 8	1
7	KM168F-05005	Output End Gasket	1
8	KM168F-05203	Crankshaft Timing Gear	1
9	GB/T1096-1979	Key 5×30	1
10	KM168F-05201	Crankshaft	1
11	KM170FA-05201	Crankshaft	1
12	KM168F-05201	Crankshaft	1
13	KM168FW-05201	Crankshaft	1
14	KM168FP-05201	Crankshaft	1
15	KM170FS-05201	Crankshaft	1
16	GB/T308-1989	Steel Ball 1/4"	1
17	GB/T1096-1979	Key 5×12	2
18	KM168F-05102	Flywheel Tooth	1
19	KM170FS-05102	Flywheel Tooth	1
20	KM168F-05101	Flywheel	1
21	KM170FS-05101	Flywheel	1
22	KM168F-05003	Flywheel Nut Gasket	1
23	KM168F-05002	Flywheel Nut	1
24	KM168F-05001	Starting Ratchet Reel	1
25	GB/T5789-1986	Bolt M6×12	3

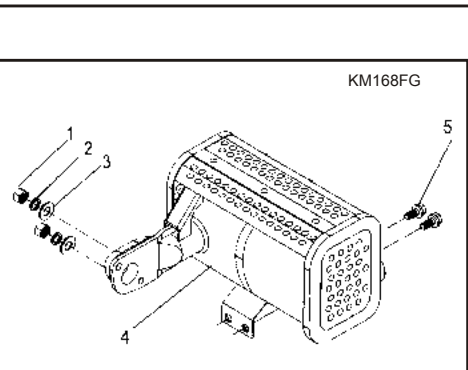
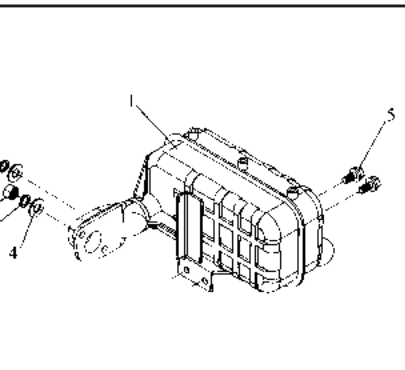
⑧



(8) Fuel Injection Valve Assem. (KM168F-13000)

Ref No.	Parts No.	Description	Qty.
1	KM170F-13200a	Fuel Injection Valve Block	1
2	GB/T879-1986	Pin3×5	1
3	KM170F-13007	Volt-adjustment Washer	As Required
4	KM170F-13006	Volt-adjustment Spring	1
5	KM170F-13005	Mandril	1
6	KM170F-13003	Intermediate Block	1
7	KM170F-13004	Locating Pin	2
8	KM170F-13100	Fuel Injection Nozzle	1
9	KM170F-13002	Nozzle Forcing Nut	1
10	KM170FA-13000	Fuel Injection Valve Assem	1

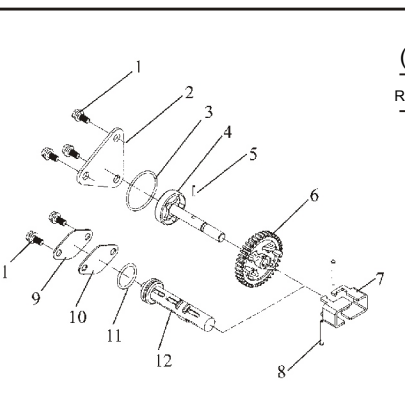
⑨



(9) Muffler Assem. (KM168F-08000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-08000	Muffler Assem.	1
2	GB/T6170-2000	Bolt M8	2
3	GB/T93-1987	Gasket 8	2
4	GB/T97-1-1985	Gasket 8	2
5	GB/T5789-1986	Bolt M6×14	2
6	KM168FG-08000	Muffler Assem.	1
7	GB/T6170-2000	Nut M8	2
8	GB/T93-1987	Gasket 8	2
9	GB/T97-1-1985	Gasket 8	2
10	KM168FG-08000	Muffler Assem.	1
11	GB/T5789-1986	Bolt M6×14	2

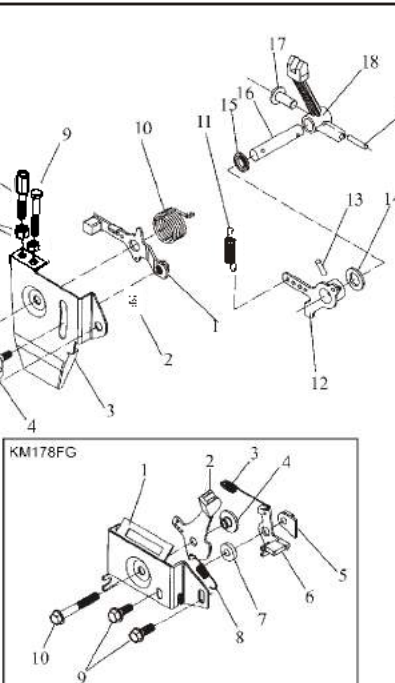
⑩



(10) Lubricating System (KM168F-09000)

Ref No.	Parts No.	Description	Qty.
1	GB/T5789-1986	Bolt M6×12	5
2	KM168F-09003	Lube Oil Pump Cover	1
3	GB/T3452-1-1992	O-Ring 34×1.8	1
4	KM168F-09100	Engine Oil Pump Unit	1
5	GB/T119-1-1986	Pin 3×16	1
6	KM178F-09002	Drive Gear of Lube Oil Pump	1
7	KM168F-11001	Flying Weight	2
8	KM168F-11002	Flying Weight Pin	2
9	KM168F-09001	Lube Oil Cleaner Cover	1
10	KM168F-09002	Lube Oil Cleaner Cover Washer	1
11	GB/T1235-1976	O-Ring 5×2.4	1
12	KM168F-09200	Lube Oil Filter Assem.	1

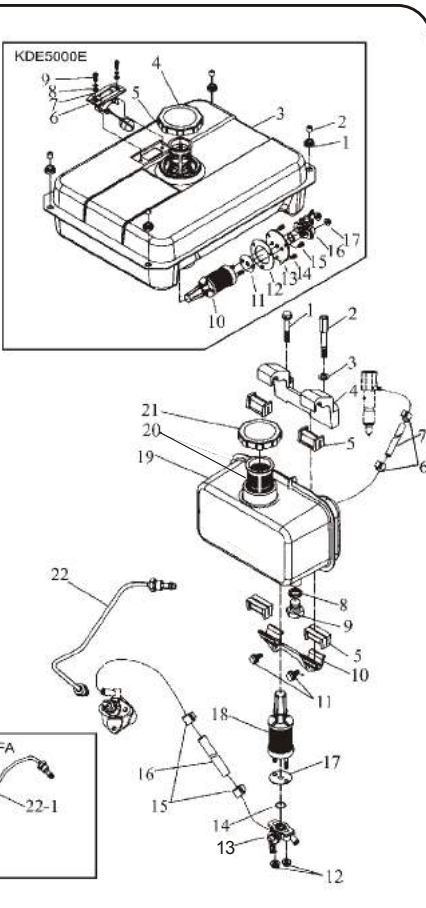
⑬



(13) Governor & Controller Assem. (KM168F-11000)

Ref No.	Parts No.	Description	Qty.
1	KM168F-11300	Control Handle	1
2	KM168F-11006	Return Spring II	1
3	KM168F-11401	Control Handle Support	1
4	KM168F-11301	Handle	1
5	GB/T5789-1986	Bolt M6×14	1
6	GB/T5789-1986	Bolt M6×18	1
7	GB/T6172-1-2000	Nut M6	2
8	KM168F-11403	Pull Bolt	1
9	KM168F-11402	High Speed Limit Screw	1
10	KM168F-11005	Return Spring I	1
11	KM168F-11007	Governor Spring	1
12	KM168F-11110	Governor Lever Weldment Assem.	1
13	GB/T117-2000	Pin 3×22	2
14	KM168F-11003	Gasket	2
15	KM168F-11008	Lever Shaft Oil Seal	1
16	KM168F-11102	Lever Shaft	1
17	KM168F-11004	Governor Push Reel	1
18	KM168F-11101	Fork	1
19	KM178FG-11000	Governor Assem.	1
20	KM178FG-11302	Control Handle Support	1
21	KM178FG-11301	Control Handle	1
22	KM178FG-11005	Return Spring I	1
23	KM178FG-11303	Control Handle Shaft	1
24	KM178FG-11400	Retainer Weldment Assem.	1
25	KM168FG-11007	Engine-Shutoff Handle	1
26	KM168FG-11006	Sheath	1
27	KM168F-11006	Return Spring II	1
28	GB/T5783-1986	Bolt M6×16	2
29	GB/T5782-2000	Bolt M6×25	1

⑪



(11) Fuel System (KM168F-10000)

(11) Fuel System (KM168F-10000)			
Ref No.	Parts No.	Description	Qty.
1	GB/T5789-1986	Bolt M8×45	1
2	KM168F-10003	Self-lub of Fuel Tank Upper Support	1
3	GB/T971-1985	Gasket 8	1
4	KM168F-10001	Fuel Tank Upper Support	1
5	KM168F-10002	Cushion	4
6	KM168F-10013	Fuel Return Pipe Clip	2
7	KM168F-10012	Fuel Return Pipe	1
8	KM1704F-10012	Fuel Return Pipe	1
9	KM168F-10010	Drain Bolt Washer	1
10	GB/T5786-2000	Bolt M12×1.25×14	1
11	KM168F-10060	Fuel Tank Lower Support	1
12	GB/T5789-1986	Nut M6×14	2
13	GB/T6177-1.2000	Nut M6	2
14	KM168F-10400	Fuel Tank Switch Assem.	1
15	GB/T3452.1-1992	O-Ring 13.2×1.8	1
16	KM168F-10011	Clip	2
17	KM168F-10009	Fuel Filler Pipe	1
18	KM168F-10007	Fuel Filler Washer	1
19	KM168F-10300	Element Assem.	1
20	KM168F-10200	Fuel Tank Weldment Assem.	1
21	KM168F-10004	Fuel Filler Screen	1
22	KM168F-10100	Fuel Tank Cap	1
23	KM168F-10500	High-pressure Fuel Pipe Unit	1
24	GB/T703F-10500	High-pressure Fuel Pipe Unit	1
25	KM168F-10500	High-pressure Fuel Pipe Unit	1
KDE5000E-3000C			
1	KDE5000E-30004	Cushion	4
2	KDE5000E-30005	Sheath	4
3	KDE5000E-31000	Fuel Tank Weldment Assem.	1
4	KR180N-10100	Fuel Tank Cap	1
5	KM168F-10004	Fuel Filler Screen	1
6	KDE5000E-32000	Fuel Tank Weldment Assem.	1
7	GB/T973-1987	Spring Gasket 5	2
8	GB/T971-1985	Gaslet M5	2
9	GB/T819-1.2000	Screw S5 M5×12	2
10	KM168F-10300	Element Assem.	1
11	KM168F-10007	Fuel Cleaner Washer	1
12	KDE5000E-31007	Joint Washer	1
13	KDE5000E-31006	Sealing Plate	1
14	GB/T5789-1.2000	Bolt M5×8	3
15	GB/T3452.1-1992	O-Ring 13.2×1.8	1
16	KM168F-10400	Throttle Switch Assem.	1
17	GB/T6177-1986	Nut M6	2