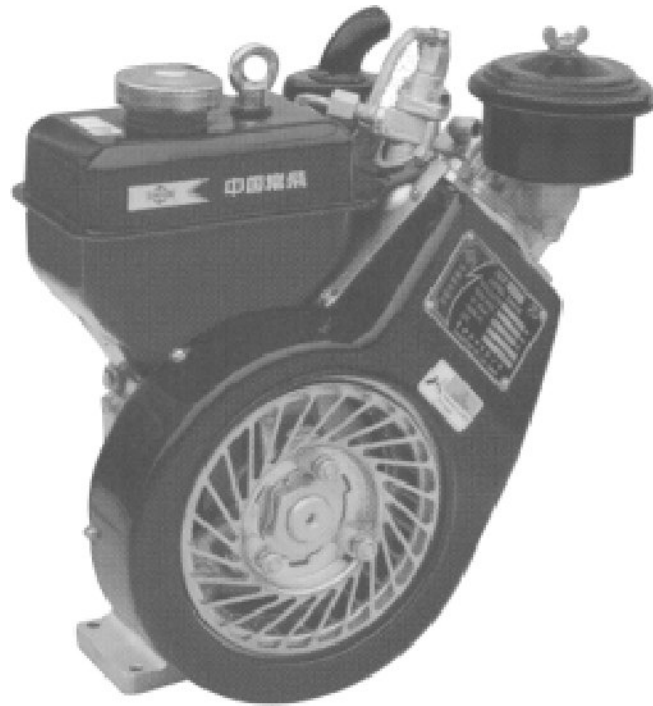
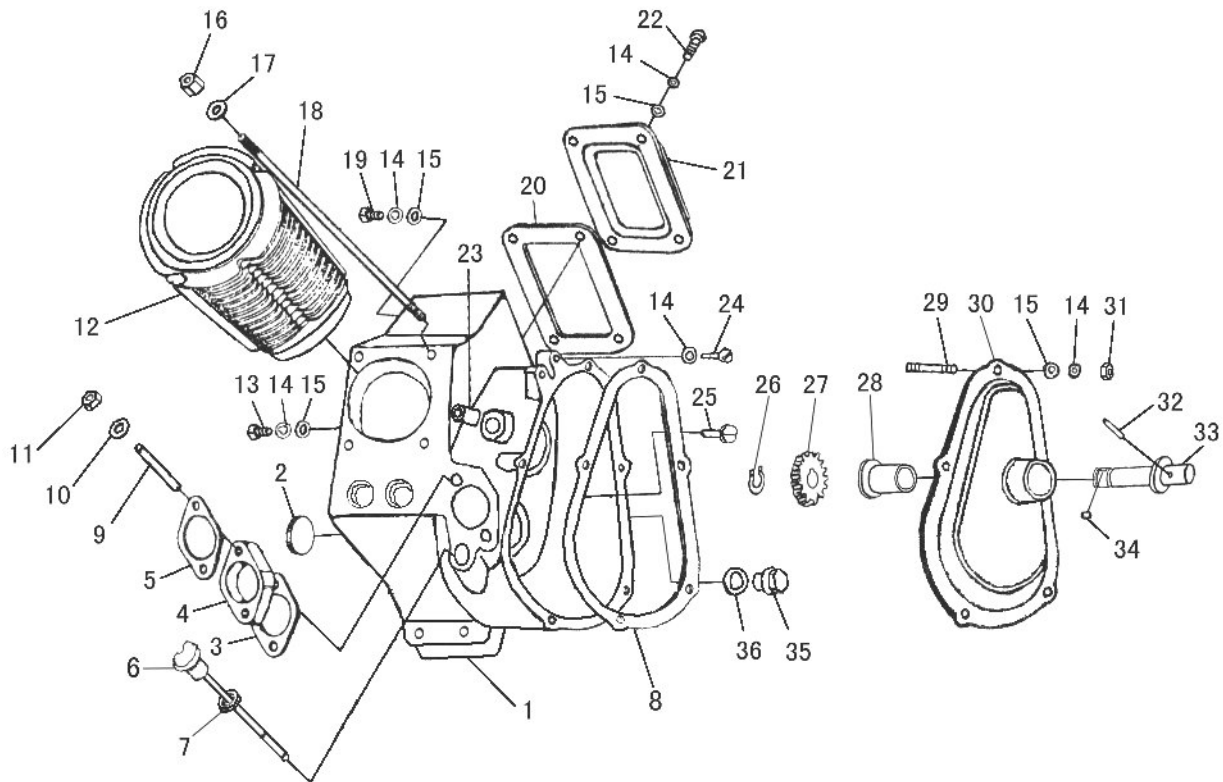


# MOTOR ESTACIONÁRIO CHANGCHAI DIESEL

Modelo 165F

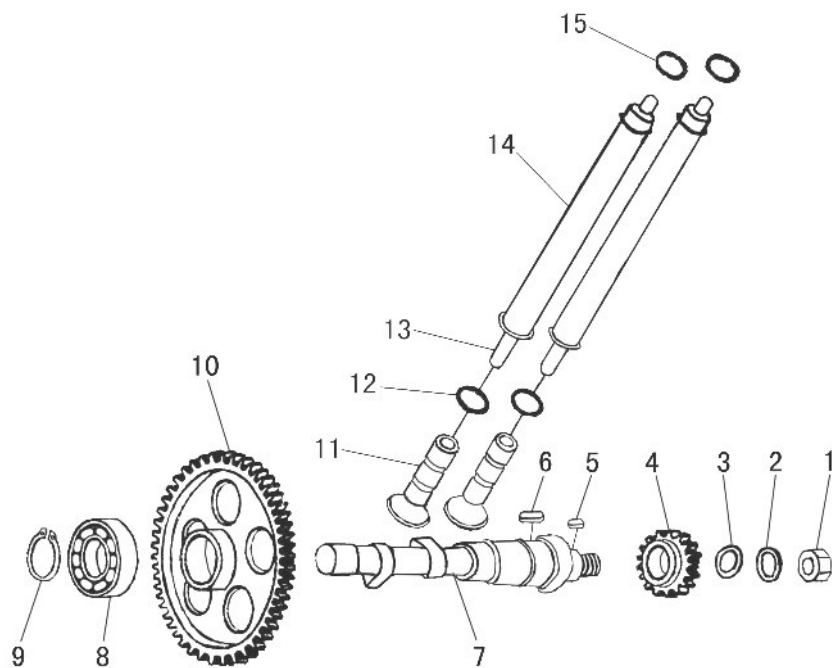


# EXPLODIDO



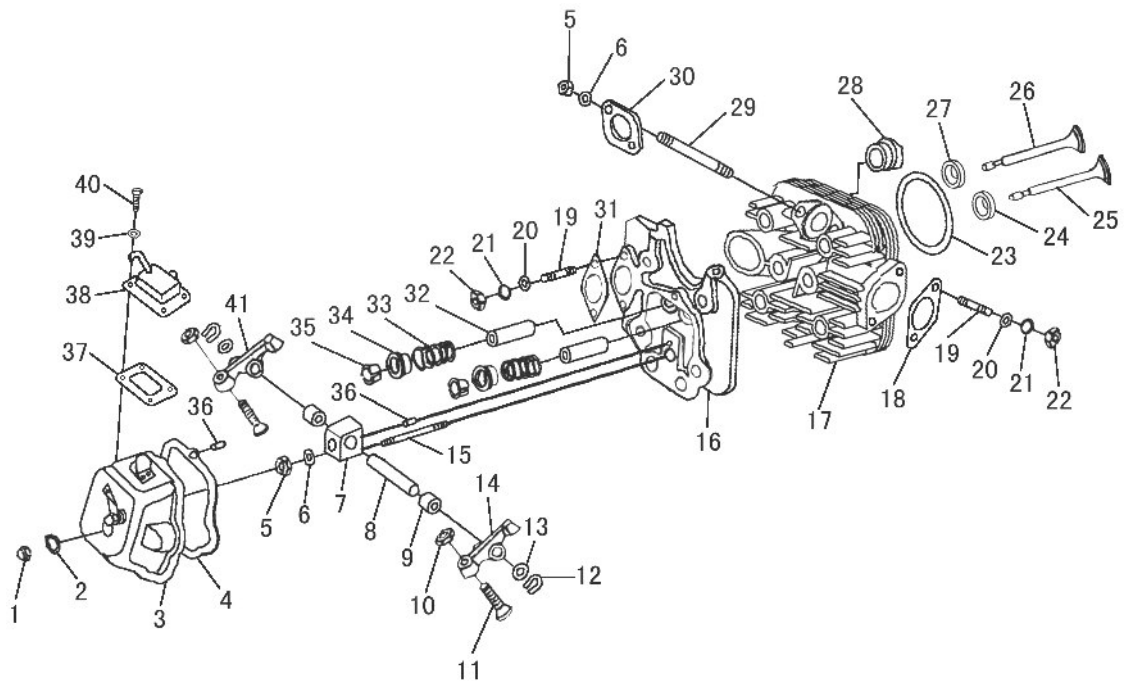
**FIG.01 BLOCO MOTOR**

Ref.	Cod.Fab.	Cod.CCM	Descricao
04	CH-160F-010012	3363900	FLANGE BBA.INJ.165F
05	CH-170F-010014	3364900	CALSO AJUSTE BBA.INJ.165F/170F
06	CH-160F-011000	3363920	VARETA OLEO CARTER 165F
07	CH-160F-011003	3363930	VEDACAO VARETA 165F
08	CH-160F-010009	3363870	JUNTA TAMPA LATERAL 165F
09	CH-GB/T898-0837	3376320	PARAFUSO PRIS. M8X37
10	CH-GB/T859-08	3376000	ARRUELA PRES. 8
11	CH-GB/T6170-08	3375560	PORCA M8
12	CH-160F-010003	3361270	CAMISA CILINDRO 165F
13	CH-GB/T29.1-0616	3374810	PARAFUSO M6X16
14	CH-GB/T859-06	3375990	ARRUELA PRES. 6
15	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
16	CH-160F-010005	3363840	PORCA CILINDRO 165F
17	CH-160F-010010	3363880	ARRUELA LISA CILIND.165F
18	CH-160F-010004	3361280	PARAFUSO PRISIONEIRO CABEC.165F
19	CH-GB/T5783-0610	3375200	PARAFUSO M6X10
20	CH-160F-010008	33638.0	TAMPA TRAZ.CARTER 165F
21	CH-160F-010011	3363890	TAMPA TRAZ.CARTER 165F
22	CH-160F-010002	3363830	BUCHA EIXO ACELERADOR 165F
24	CH-GB/T5783-0610	3375200	PARAFUSO M6X10
25	CH-160F-010001	3363820	PARAFUSO
26	CH-GB/T894.1-12	3376170	TRAVA EXT.12
28	CH-R165-012002	3378080	BUCHA EIXO MANIVELA 165F/170F
30	CH-160F-012001-1	3363940	TAMPA LATERAL MANIV.165F
33	CH-160F-012005	3363960	EIXO MANIVELA 165F
36	CH-170F-010012	3364880	VEDACAO BUJAO



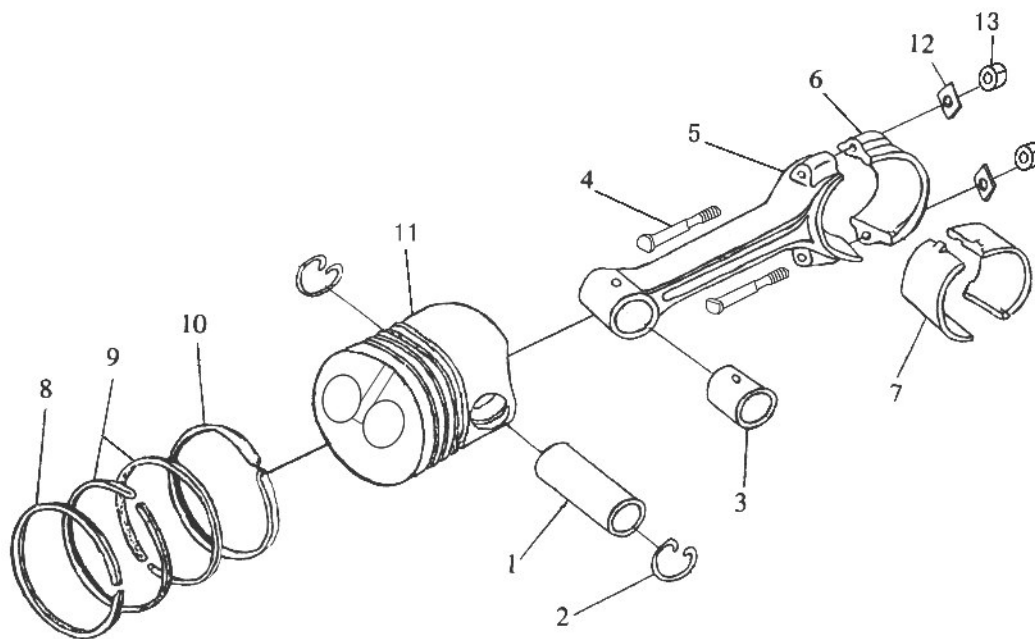
**FIG.02 COMANDO DE VÁLVULA**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-GB/T6170-10	3375570	PORCA M10
02	CH-GB/T859-10	3376010	ARRUELA PRES. 10
03	CH-GB/T97.1-10	3376630	ARRUELA LISA 10
04	CH-160F-020006-1	3363990	ENGRENAGEM MENOR COMD.165F
05	CH-160F-020007	3364000	CHAVETA ENGR.MENOR 165F
07	CH-160F-020001	3363970	EIXO COMANDO VALV. 165F
08	CH-GB/T276-94 31	3362060	ROLAMENTO 314 VIRABR.ZS1115NM
10	CH-160F-020005	3363980	ENGRANAGEM COMAND.MAIOR 165F
12	CH-170F-020003	3365010	ANEL VED.TUBO VARETA INF.165F/170F
15	CH-170F-020007	3365030	ANEL VED.TUBO VARETA SUP.165F/170F



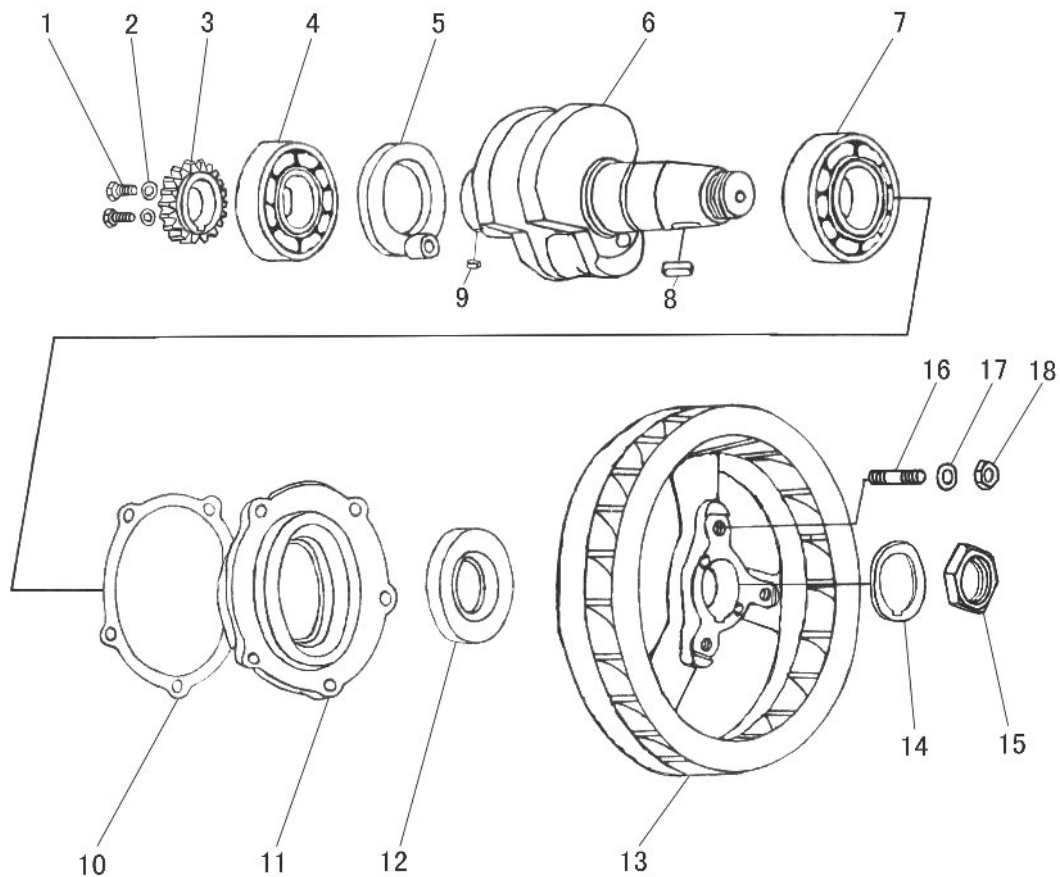
**FIG.03 CABEÇOTE**

Ref.	Cod.Fab.	Cod.CCM	Descrição
03	CH-160F-033000	3364120	TAMPA CABECOTE 165F
04	CH-160F-030001	3364010	JUNTA TAMPA CABEC.165F
06	CH-GB/T5793-08	3375530	ARRUELA 8
07	CH-160F-032005	3364100	SUPORE EIXO BALANC.165F
08	CH-160F-032004	3364090	EIXO BALANC. 165F
09	CH-160F-032003	3364080	ESPACADOR BALANC. 165F
10	CH-170F-032004	3365210	PORCA AJUSTE VALVULA 165F/170F
11	CH-160F-032006	3364110	PARAFUSO AJUSTE VALV.165F
13	CH-GB/T73-10	3375830	ARRUELA 10
14	CH-160F-032002	3364070	BALANCIN ESC.165F
15	CH-160F-031007	3364040	PARAFUSO PRIS.SUP.BALANC.165F
18	CH-160F-031009	3361320	JUNTA SILENCIOSO 165F
20	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
21	CH-GB/T859-06	3375990	ARRUELA PRES. 6
22	CH-GB/T6170-06	3375550	PORCA M6
23	CH-160F-030002	3361290	JUNTA CABECOTE 165F
30	CH-160F-030003	3364020	CHAPA APOIO BICO INJ. 165F
31	CH-160F-031008	3364050	JUNTA COLETOR ADMISS.165F
33	CH-160F-031006	3361310	MOLA INT.VALVULA 165F
34	CH-160F-031005	3364030	ASSENTO MOLA VALVULA 165F
35	CH-160F-031004	3361300	TRAVA VALVULA 165F
37	CH-160F-033004	3364130	JUNTA TAMPA BRIDA 165F
38	CH-160F-033100	3364140	BRIDA (RESPIRO) 165F
40	CH-GB/T67-0508	3375720	PARAFUSO M5X8
41	CH-160F-032001	3364060	BALANCIN ADM.165F



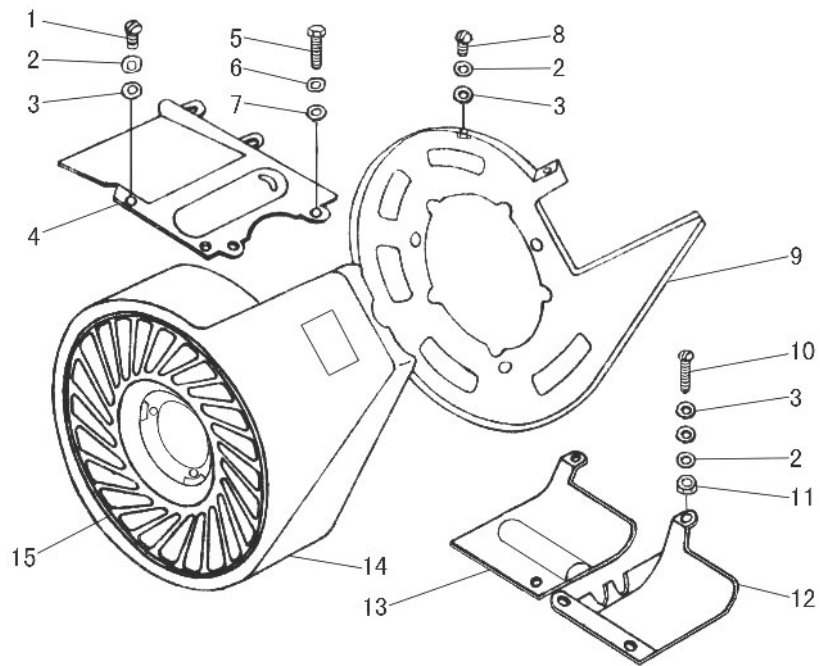
**FIG.04 PISTÃO E BIELA**

Ref.	Cod.Fab.	Cod.CCM	Descrição
04	CH-160F-042005	3364150	PARAFUSO BIELA 165F
12	CH-160F-042007	3364170	ARRUELA TRAVA PORCA BIELA 165F
13	CH-160F-042006	3364160	PORCA BIELA 165F



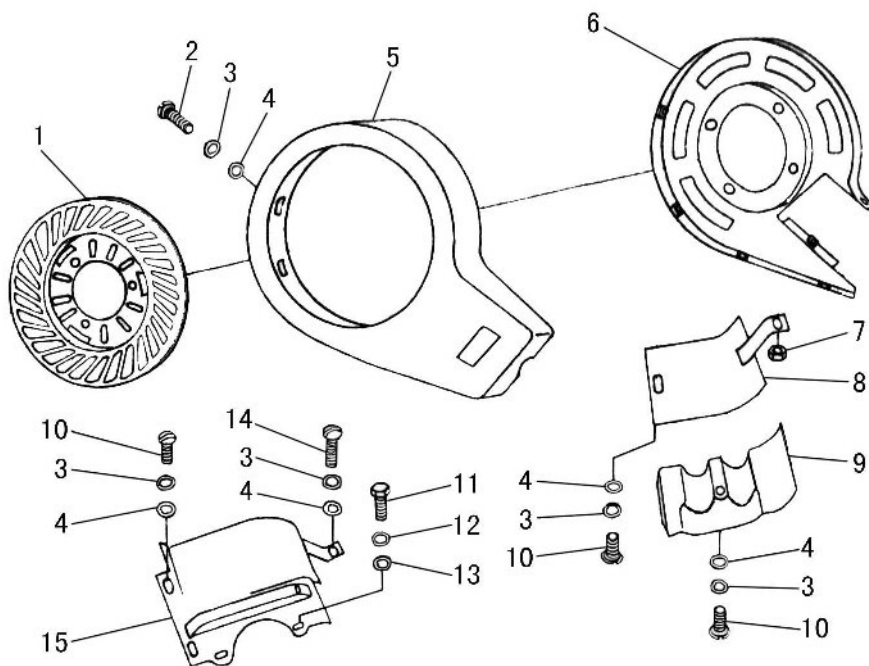
**FIG.05 VOLANTE E VIRABREQUIM**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-GB/T818-0512	3375870	PARAFUSO M5X12
04	CH-GB/T276-94 31	3362060	ROLAMENTO 314 VIRABR.ZS1115NM
05	CH-160F-050002	3364180	ANEL ESPACADOR VIRABR.165F
08	CH-160F-050007	3364190	CHAVETA VOLANTE 165F
14	CH-160F-050009	3364200	ARRUELA TRAVA PORCA VOL.165F
15	CH-160F-050008	3361330	PORCA VOLANTE 165F
16	CH-GB/T900-0830	3376390	PARAFUSO PRIS. M8X30
17	CH-GB/T5793-08	3375530	ARRUELA 8
18	CH-GB/T6170-08	3375560	PORCA M8



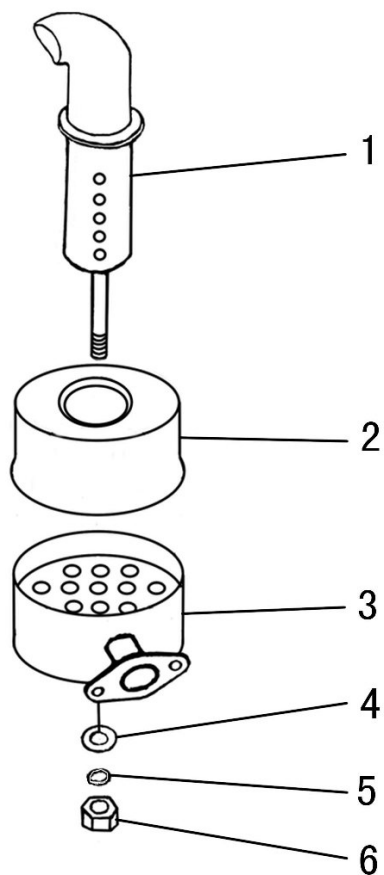
**FIG.06 160F**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-GB/T818-0512	3375870	PARAFUSO M5X12
02	CH-GB/T859-05	3375980	ARRUELA PRES. 5
03	CH-GB/T97.1-05	3376570	ARRUELA LISA 5
05	CH-GB/T29.1-0616	3374810	PARAFUSO M6X16
06	CH-GB/T859-06	3375990	ARRUELA PRES. 6
07	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
08	CH-GB/T818-0508	3375850	PARAFUSO M5X8
10	CH-GB/T818-0508	3375850	PARAFUSO M5X8
11	CH-GB/T6170-05	3375540	PORCA M5
15	CH-165F-060004	3364740	TELA VENTILADOR 165F



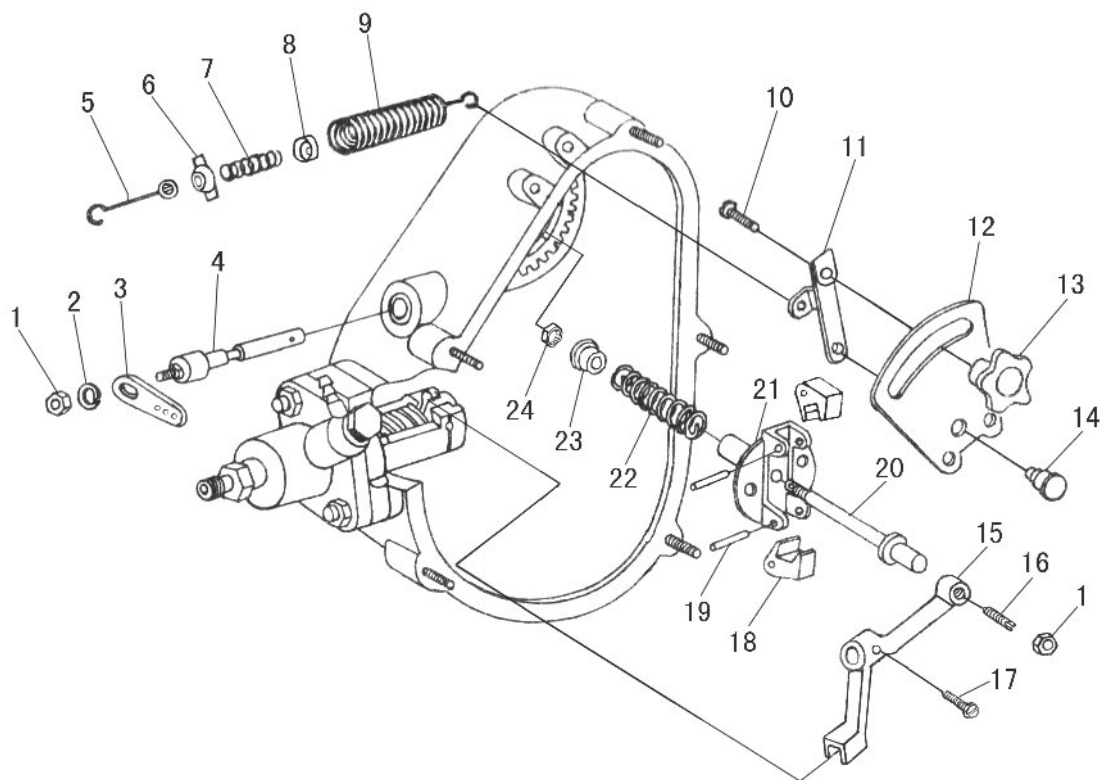
**FIG.07 165F**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-165F-060004	3364740	TELA VENTILADOR 165F
02	CH-GB/T818-0508	3375850	PARAFUSO M5X8
03	CH-GB/T859-05	3375980	ARRUELA PRES. 5
04	CH-GB/T97.1-05	3376570	ARRUELA LISA 5
05	CH-165F-062000	3364760	CARCACA VENTILADOR 165F
06	CH-165F-061000	3364750	CARCACA INTERNA VENT.165F
07	CH-GB/T6170-05	3375540	PORCA M5
08	CH-165F-064000	3364780	PLACA INF.VENTILACAO 165F
10	CH-GB/T818-0512	3375870	PARAFUSO M5X12
11	CH-GB/T29.1-0616	3374810	PARAFUSO M6X16
12	CH-GB/T859-06	3375990	ARRUELA PRES. 6
13	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
14	CH-GB/T818-0518	3375880	PARAFUSO M5X18
15	CH-165F-063000	3364770	CHAPA GUIA FRONT.165F



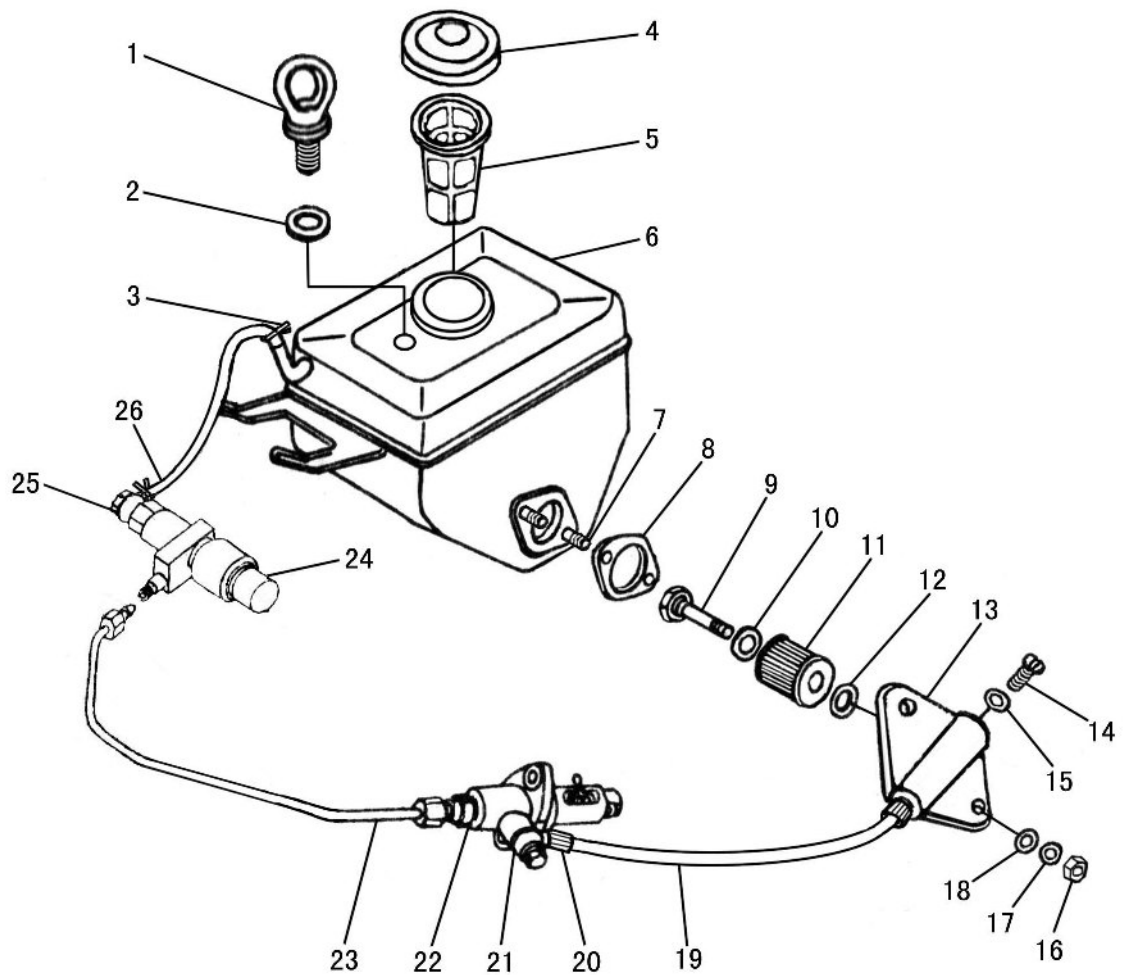
**FIG.08 SILENCIOSO**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-160F-081000	3364290	TUBO SAIDA SILENCIOSO 165F
02	CH-160F-080001	3364280	CAPA SUPER.SILENCIOSO 165F
03	CH-160F-082000	3364300	CORPO SILENCIOSO 165F
04	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
05	CH-GB/T93-06	3376480	ARRUELA PRES. 6
06	CH-GB/T6170-06	3375550	PORCA M6



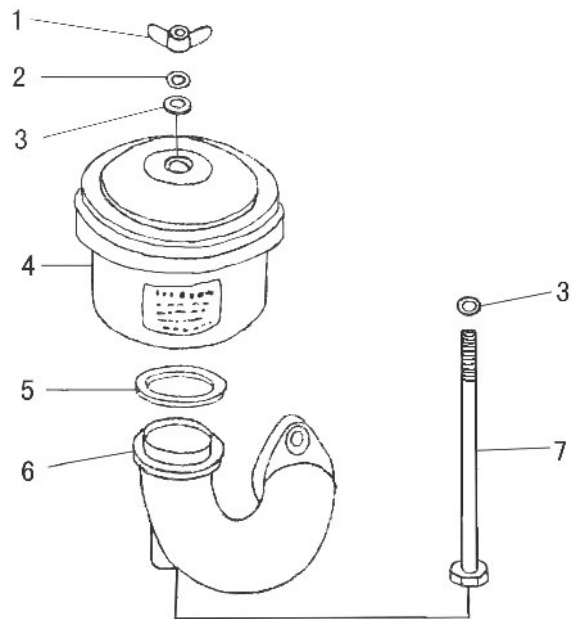
**FIG.09 CAIXA ENGRENAGEM**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-GB/T6170-06	3375550	PORCA M6
03	CH-160F-101002	3364320	ALAVANCA REGL.GOVERN.165F
04	CH-160F-101001	3364310	EIXO GOVERN. 165F
05	CH-160F-105003	3364440	GANCHO MOLA GOVERN.165F
06	CH-160F-105002	3364430	ASSENTO MOLA GOVERN.165F
07	CH-160F-105005-1	3364460	MOLA INTERNA GOVERN. 165F
08	CH-160F-105004	3364450	ASSENTO MOLA GOVERN.165F
09	CH-160F-105001	3364420	MOLA GOVERNADOR 165F
10	CH-GB/T67-0616	3375780	PARAFUSO M6X16
11	CH-160F-103004	3364350	ALAVANCA ACELERAD. 165F
12	CH-160F-103002	3364340	PLACA ACELERADOR 165F
13	CH-170F-103001	3365850	MANOPLA ACELERADOR 165F/170F
14	CH-170F-103005	3365880	PARAFUSO FIX.ACELERAD.165F/170F
15	CH-160F-102001	3364330	ALAVANCA PRIC.GOVERN. 165F
16	CH-170F-102002	3365830	PARAFUSO AJUSTE GOVERN. 165F/170F
17	CH-170F-102003	3365840	PARAFUSO FIXA EIXO/ALAVN.165F/170F
18	CH-160F-104001	3364360	PESO GOVERNADOR 165F
19	CH-160F-104005	3364400	PINO PESO GOVEN. 165F
20	CH-160F-104002	3364370	EMBOLO ATUAD.GOVERN.165F
21	CH-160F-104006	3364410	CARCACA GOVERNADOR 165F
22	CH-160F-104003	3364380	MOLA EMBOLO GOVERN.165F
23	CH-160F-104004	3364390	ASSENTO MOLA EMBOLO GOVERN.165F
24	CH-GB/T6170-05	3375540	PORCA M5



**FIG.10 SISTEMA DE INJEÇÃO**

Ref.	Cod.Fab.	Cod.CCM	Descrição
01	CH-160F-071100	3364240	OLHAL SUSPENCAO 165F
02	CH-160F-071007	3364230	ARRUELA LISA
04	CH-170F-072000	3365610	TAMPA TANQUE COMB.165F/170F
05	CH-170F-073000	3365620	FILTRO TAMPA TANQUE COMB 165F/170F
07	CH-GB/T898-0616	3376280	PARAFUSO PRIS. M6X16
08	CH-170F-074009	3365710	JUNTA TAMPA FILTRO COMBS.165F/170F
09	CH-160F-074002	3364260	PARAFUSO FILTRO PRI.COMB.165F
10	CH-170F-074011	3365730	VEDACAO FILTRO COMB.165F/170F
11	CH-170F-074100	3365740	ELEMENTO FILTRO COMB.165F/170F
12	CH-170F-074002	3365640	VEDACAO PARAF.FILTRO 165F/170F
13	CH-160F-074001	3364250	TAMPA SAIDA TQ.COMB.165F
14	CH-170F-074003	3365650	BUJAO TORN.COMB.165F/170F
15	CH-170F-074004	3365660	VEDACAO BUJAO 165F/170F
16	CH-GB/T6170-06	3375550	PORCA M6
17	CH-GB/T859-06	3375990	ARRUELA PRES. 6
18	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
19	CH-160F-070001	3364210	MANGUEIRA COMBUS. 165F
20	CH-170F-070006	3365570	ABRACADEIRA MANG.COMB. 165F/170F
21	CH-170F-070007	3365580	TERMINAL OLHAL MANG.COMB.165F/170F
22	CH-BF1060Z02B	3373940	BOMBA INJETORA 165F/170F
23	CH-160F-075000	3364270	TUBO ALTA PRESS.BBA/BICO 165F
24	CH-PB35S6F	3377980	BICO INJ.CPL. 165F/170F
25	CH-170F-070004	3365550	TERMINAL OLHAL MANG.RET.165F/170F
26	CH-160F-070002	3364220	MANGUEIRA RETORNO 165F



**FIG.11 FILTRO DE AR**

Ref.	Cod.Fab.	Cod.CCM	Descrição
01	CH-GB/T62-06	3375660	PORCA BORBOLETA M6
02	CH-GB/T859-06	3375990	ARRUELA PRES. 6
03	CH-GB/T97.1-06	3376590	ARRUELA LISA 6
04	CH-160F-110000	3361350	FILTRO AR CPL. 165F
05	CH-160F-110002	3364480	VEDACAO FILTRO AR 165F
06	CH-160F-110001	3364470	COLETOR ADMISSAO 165F
07	CH-160F-110005	3364490	PARAFUSO FILTRO AR 165F

**FIG.14 165F 160F (somente lista)**

Ref.	Cod.Fab.	Cod.CCM	Descricao
01	CH-165F-010003	3364500	CAMISA CILINDRO 165F
02	CH-165F-010004	3364510	PARAFUSO PRIS.CILINDRO 165F
03	CH-165F-010006	3364520	CARCACA VIRABREQUIM 165F
04	CH-165F-020002	3364530	TUCHO VALVULA 165F
05	CH-165F-020003	3364540	VARETA VALV.165F
06	CH-165F-020004	3364550	TUBO VARETA VALVULAS 165F
07	CH-165F-030002	3364560	JUNTA CILINDRO (COBRE) 165F
08	CH-165F-031001	3364570	CABECOTE SUP.VALV.165F
09	CH-165F-031002	3361390	VALVULA ESCAPE 165F
10	CH-165F-031003	3361400	VALVULA ADMISSAO 165F
11	CH-165F-031101	3364580	CABECOTE CILINDRO 165F
12	CH-165F-031102	3364590	SEDE VALVULA ESC. 165F
13	CH-165F-031103	3364600	SEDE VALVULA ADMS. 165F
14	CH-165F-031104	3364610	GUIA VALVULA 165F
15	CH-165F-031105	3364620	TUBO CABECOTE 165F
16	CH-165F-040001	3364630	ANEL SEGM.COMPRESS.1 165F
17	CH-165F-040002	3364640	ANEL SEGM.RASPADOR 2 3 165F
18	CH-165F-040003	3361410	PISTAO STD 165F
19	CH-165F-040004	3361420	PINO PISTAO 165F
20	CH-165F-041000	3364650	ANEL SEGM.OLEO 165F
21	CH-165F-042001	3364660	BUCHA PINO PIST./BIELA 165F
22	CH-165F-042002	3364670	BIELA SUPERIOR 165F
23	CH-165F-042003	3364680	BIELA INFERIOR 165F
24	CH-165F-042004	3361430	CASQUILHO BIELA 165F
25	CH-165F-050001	3364690	ENGRENAGEM COMANDO 165F
26	CH-165F-050003	3364700	VIRABREQUIM 165F
27	CH-165F-050004	3364710	MANCAL P.T.O. 165F
28	CH-165F-050005	3361440	JUNTA MANCAL VIRABREQUIM 165F
29	CH-165F-050006	3364720	VOLANTE 165F
30	CH-165F-071000	3364790	TANQUE COMBUST. 165F