

0CD50-M05200EN

P R E F A C E

This parts catalog is the 1st edition of 4TNV88-BDFLT, 4TNV88-BDFLTC for Mantall.

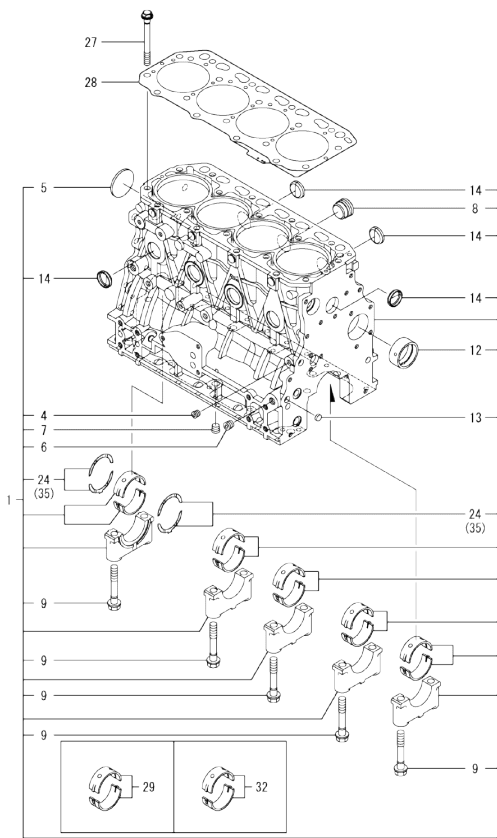
Published : July, 2019

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Fig.1. CYLINDER BLOCK



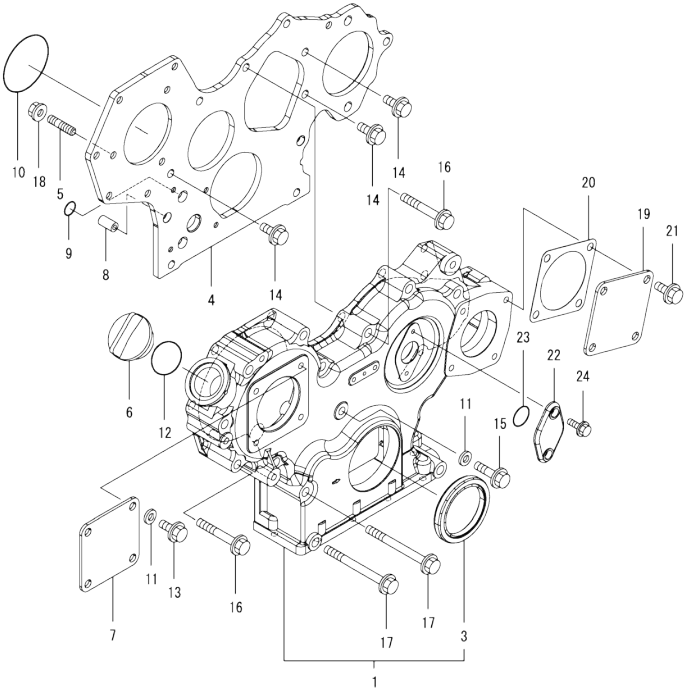
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-01560	BLOCK ASSY, CYLINDER	1	1						
4	2	124060-01050	PLUG, PT1/8	1	1						
5	2	129001-01250	PLUG, 50	1	1						
6	2	124160-01910	PLUG, PT1/4	2	2						
7	2	124160-01910	PLUG, PT1/4	1	1						
8	2	171051-01921	PLUG, NPTF1	1	1						
9	2	129150-02020	BOLT, METAL CAP	10	10						
12	2	129795-02412	BUSH, CAMSHAFT	1	1						
13	2	27241-120000	PLUG, 12	2	2						
14	2	27241-300000	PLUG 30	8	8						
24	2	129150-02931	METAL ASSY, THRUST	2	2						
27	1	129150-01200	BOLT, CYLINDER HEAD	18	18						
28	1	129407-01340	GASKET, HEAD	1	1						
29	1	129001-02931	METAL ASSY, MAIN	5	5						1
32	1	129150-02871	METAL ASSY, MAIN .25	5	5						2
35	1	129150-02941	METAL ASSY, 0.25 OS	1	1						3

Fig.2. GEAR HOUSING

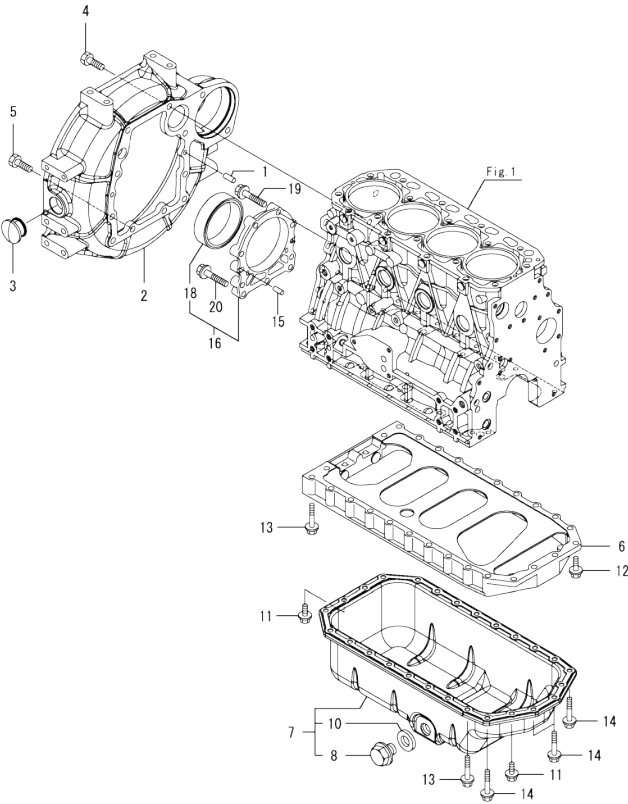


(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729652-01500	CASE ASSY, GEAR	1	1						
3	2	119934-01800	SEAL, OIL	1	1						
4	1	129604-01520	FLANGE, GEAR CASE	1	1						
5	1	119802-01561	STUD, M8X25	3	3						
6	1	124160-01751	CAP, FILLER	1	1						
7	1	124240-01871	COVER, HYDRAULIC PUMP	1	1						
8	1	129795-01950	PIPE, KNOCK L=18	2	2						
9	1	119609-32040	O-RING, P16	2	2						
10	1	121850-51960	O-RING, FUEL PUMP	1	1						
11	1	22190-080002	WASHER, SEAL 8	5	5						
12	1	24311-000320	O-RING, 1AP32.0	1	1						
13	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
14	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
15	1	26106-080302	BOLT, M8X 30 PLATED	1	1						
16	1	26106-080552	BOLT, M8X 55 PLATED	10	10						
17	1	26106-080852	BOLT, M8X 85 PLATED	3	3						
18	1	26306-080002	NUT, M8	3	3						
19	1	124240-01871	COVER, HYDRAULIC PUMP	1	1						
20	1	129C26-01890	GASKET, PUMP	1	1						
21	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
22	1	121023-01551	COVER, TACHOMETER	1	1						
23	1	24341-000240	O-RING, 1AS24.0	1	1						
24	1	26106-060162	BOLT, M6X 16 PLATED	2	2						

Fig.3. FLYWHEEL HOUSING & OIL SUMP



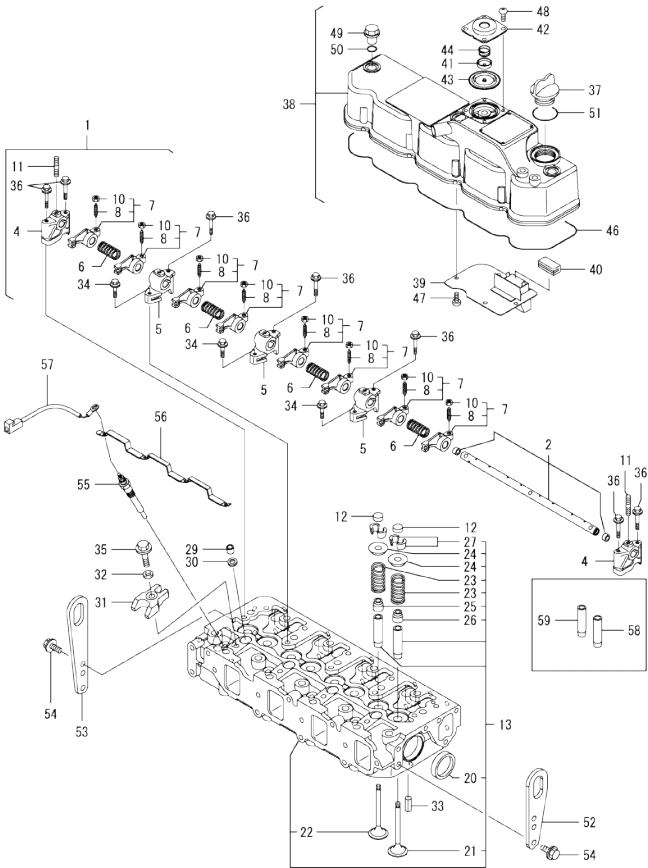
OCD50-M05200 Fig.3

(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2	2						
2	1	129612-01600	HOUSING, FLYWHEEL	1	1						
3	1	119620-01750	CAP, WHEEL COVER	1	1						
4	1	26206-100252	BOLT, M10X 25 PLATED	6	6						
5	1	26206-100302	BOLT, M10X 30 PLATED	4	4						
6	1	129400-01730	SPACER, OIL PAN	1	1						
7	1	129688-01780	OIL PAN ASSY	1	1						
8	2	119640-01640	PLUG, DRAIN M22	1	1						
10	2	22190-220002	WASHER, SEAL 22	1	1						
11	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
12	1	26106-080252	BOLT, M8X 25 PLATED	2	2						
13	1	26106-080452	BOLT, M8X 45 PLATED	20	20						
14	1	26106-080502	BOLT, M8X 50 PLATED	4	4						
15	1	129100-01580	PIN, PARALLEL 8X16	2	2						
16	1	129648-01600	CASE ASSY, OIL SEAL	1	1						
18	2	129648-01780	SEAL, OIL	1	1						
19	1	129486-01670	BOLT, M8X30	6	6						
20	1	26106-080352	BOLT, M8X 35 PLATED	3	3						

Fig.4. CYLINDER HEAD & BONNET



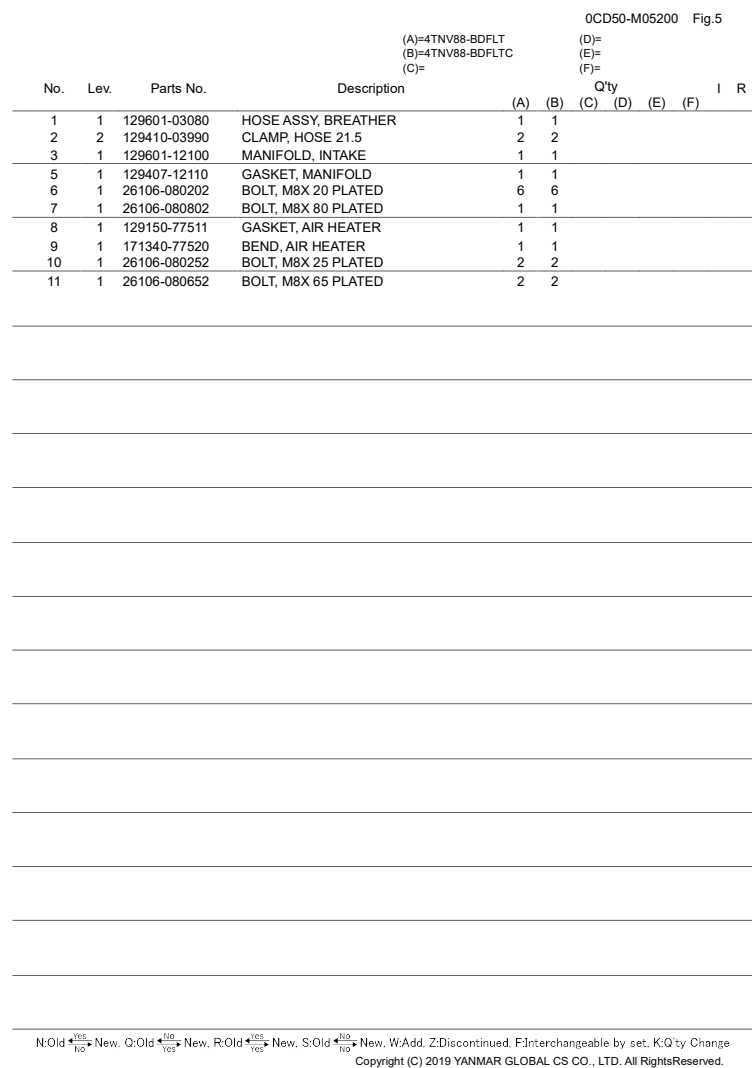
Remarks
(1)Spare parts.

(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

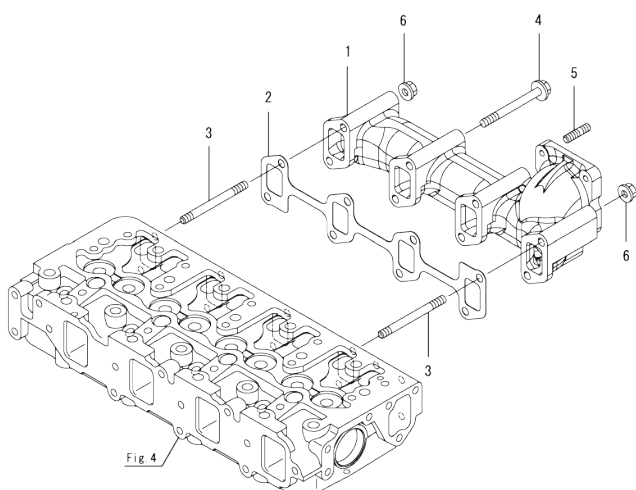
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129601-11241	SHAFT ASSY, ROCKER	1	1						
2	2	129601-11251	SHAFT, ROCKER ARM	1	1						
4	2	119802-11260	SUPPORT, ROCKER ARM	2	2						
5	2	119802-11270	SUPPORT, ROCKER ARM	3	3						
6	2	129150-11280	SPRING, SHAFT	4	4						
7	2	129004-11650	ARM ASSY, ROCKER	8	8						
8	3	129150-11230	SCREW, VALVE ADJUST	8	8						
10	3	129150-11750	NUT, M8XP1.0	8	8						
11	2	26226-080182	STUD, M8X 18	3	3						
12	1	129150-11370	CAP, VALVE	8	8						
13	1	129688-11700	HEAD ASSY, CYLINDER	1	1						
20	2	27241-400000	PLUG, 40	2	2						
21	2	129005-11100	VALVE, INTAKE	4	4						
22	2	129100-11112	VALVE, EXHAUST	4	4						
23	2	129795-11120	SPRING, VALVE	8	8						
24	2	129795-11180	RETAINER, SPRING	8	8						
25	2	121400-11340	SEAL, VALVE STEM	4	4						
26	2	124460-11340	SEAL, VALVE STEM	4	4						
27	2	27310-080001	COTTER, 8	8	8						
29	1	119802-11870	PROTECTOR, NOZZLE	4	4						
30	1	119625-11880	SEAT, NOZZLE	4	4						
31	1	129004-11900	RETAINER, NOZZLE	4	4						
32	1	120270-54410	WASHER, INJECTOR	4	4						
33	1	22351-060012	PIN, SPRING 6.0X12	2	2						
34	1	26106-080252	BOLT, M8X 25 PLATED	3	3						
35	1	26106-080352	BOLT, M8X 35 PLATED	4	4						
36	1	26106-080502	BOLT, M8X 50 PLATED	7	7						
37	1	124160-01751	CAP, FILLER	1	1						
38	1	129601-11350	BONNET ASSY, HEAD	1	1						
39	2	129004-03010	PLATE, BAFFLE	1	1						
40	2	129150-03070	BAFFLE, BREATHER	1	1						
41	2	119802-03110	PLATE, DIAPHRAGM	1	1						
42	2	119802-03121	COVER, DIAPHRAGM	1	1						
43	2	119802-03130	DIAPHRAGM, BREATHER	1	1						
44	2	119802-03141	SPRING, DIAPHRAGM	1	1						
46	2	129601-11310	GASKET, BONNET	1	1						
47	2	22857-500100	SCREW, 5X10	4	4						
48	2	22857-500100	SCREW, 5X10	4	4						
49	1	124160-11360	KNOB, BONNET	3	3						
50	1	24311-000120	O-RING, 1AP12.0	3	3						
51	1	24311-000320	O-RING, 1AP32.0	1	1						
52	1	119226-07900	LIFTER, ENGINE	1	1						
53	1	129900-07900	LIFTER, ENGINE	1	1						
54	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
55	1	129008-77800	PLUG, GLOW	4	4						
56	1	129604-77821	CONNECTOR, GLOW PLUG	1	1						
57	1	119803-77830	HARNES, WIRE	1	1						
58	1	120130-11860	GUIDE, VALVE	4	4						1
59	1	129150-11810	GUIDE, VALVE	4	4						1

Fig.5. SUCTION MANIFOLD



N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.6. EXHAUST MANIFOLD



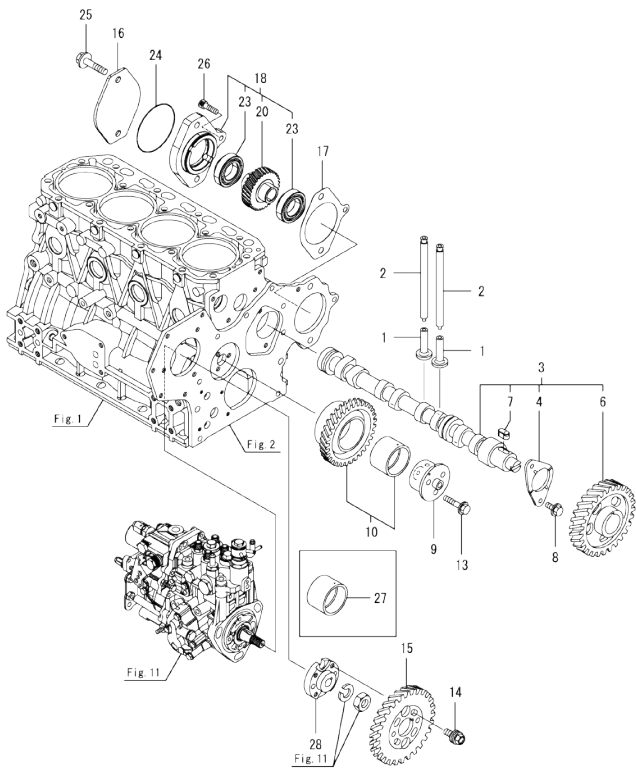
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(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1		129640-13109	MANIFOLD, EXHAUST		1	1					
2		129550-13110	GASKET, MANIFOLD		1	1					
3		123900-13610	STUD, M8X80		2	2					
4		129E00-13640	BOLT, M8X80 10.9T		6	6					
5		119131-18320	STUD, M8X22		4	4					
6		26306-080002	NUT, M8		2	2					

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.7. CAMSHAFT & DRIVING GEAR



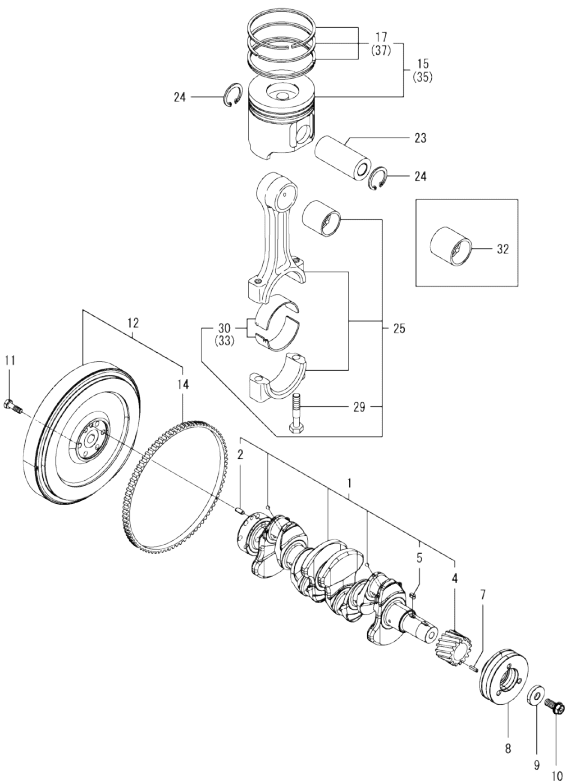
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(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8	8						
2	1	129150-14400	ROD, PUSH L=178	8	8						
3	1	729402-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	METAL, THRUST	1	1						
6	2	129150-14101	GEAR, CAMSHAFT	1	1						
7	2	22512-070140	KEY, 7X 14	1	1						
8	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
9	1	119803-25050	SHAFT, IDLE GEAR	1	1						
10	1	119802-25101	GEAR ASSY, IDLE	1	1						
13	1	26106-080402	BOLT, M8X 40 PLATED	3	3						
14	1	129150-25301	BOLT, INJECTION PUMP	4	4						
15	1	119802-25901	GEAR, PUMP	1	1						
16	1	121023-26071	COVER, PUMP	1	1						
17	1	171353-26081	GASKET, PUMP	1	1						
18	1	129484-26200	DRIVE ASSY, PUMP	1	1						
20	2	129484-26210	GEAR ASSY, PUMP	1	1						
23	2	24105-060064	BEARING, BALL 6006Z	2	2						
24	1	24321-000850	O-RING, 1AG85.0	1	1						
25	1	26106-100452	BOLT, M10X 45 PLATED	2	2						
26	1	26450-080282	BOLT, M8X 28	1	1						
27	1	119802-25071	BUSH, IDLE GEAR	1	1						1
28	1	158552-51151	FLANGE, CAMSHAFT	1	1						

Remarks
(1)Spare parts.

Fig.8. CRANKSHAFT & PISTON



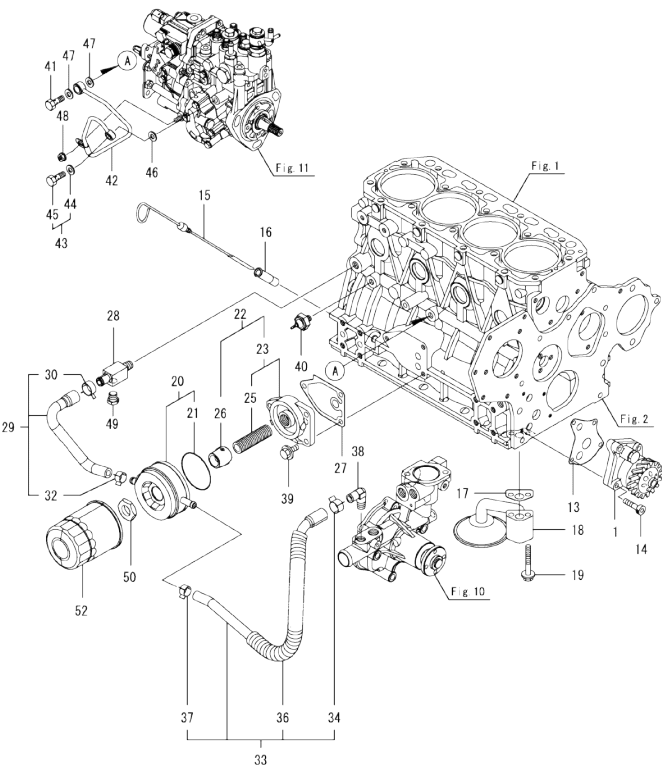
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129604-21000	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, PARALLEL 8X16	1	1						
4	2	119803-21200	GEAR, CRANKSHAFT	1	1						
5	2	22512-070140	KEY, 7X 14	1	1						
7	1	22351-030010	PIN, SPRING 3.0X10	1	1						
8	1	119802-21650	V-PULLEY, CRANKSHAFT	1	1						
9	1	129795-21661	WASHER, 14	1	1						
10	1	121850-21680	BOLT, V-PULLEY	1	1						
11	1	121111-21501	BOLT, FLYWHEEL	6	6						
12	1	171420-21580	FLYWHEEL ASSY	1	1						
14	2	119865-21600	GEAR, RING Z=116	1	1						
15	1	129005-22080	PISTON ASSY	4	4						
17	2	129005-22500	RING SET, PISTON	4	4						
23	1	129202-22300	PIN, PISTON D26 L70	4	4						
24	1	22252-000260	RING, 26	8	8						
25	1	729402-23100	ROD ASSY, CONNECTING	4	4						
29	2	121550-23200	BOLT, CONNECTING ROD	8	8						
30	2	129150-23601	METAL ASSY,CRANK PIN	4	4						
32	1	129100-23910	METAL, PISTON PIN	4	4						1
33	1	129150-23611	METAL, CRANK PIN .25	4	4						2
35	1	129005-22900	PISTON ASSY, 0.25 OS	4	4						3
37	2	129005-22950	RING SET, PISTON .25	4	4						3

Fig.9. LUB. OIL SYSTEM



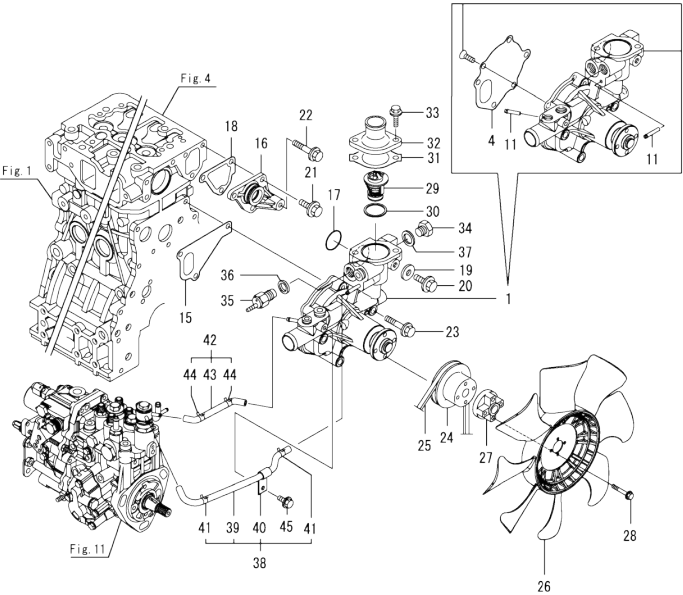
Remarks
(1)Spare parts.

(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-32001	PUMP ASSY, OIL	1	1						
13	1	129150-32020	GASKET, PUMP	1	1						
14	1	26450-060252	BOLT, M6X 25	4	4						
15	1	129004-34802	DIPSTICK, OIL	1	1						
16	1	121520-34810	GUIDE, DIPSTICK	1	1						
17	1	129150-35042	GASKET, INLET PIPE	1	1						
18	1	129436-35070	PIPE ASSY, OIL INLET	1	1						
19	1	26106-080552	BOLT, M8X 55 PLATED	2	2						
20	1	129508-33031	COOLER ASSY, OIL	1	1						
21	2	129508-33060	GASKET, COOLER	1	1						
22	1	129508-35100	BRACKET ASSY,LO FILT	1	1						
23	2	129006-35100	BRACKET ASSY, FILTER	1	1						
25	3	129417-35150	STUD, M20X67	1	1						
26	2	129508-35150	COLLAR, OIL-COOLER	1	1						
27	1	129150-35111	GASKET, BRACKET	1	1						
28	1	129006-44480	JOINT, R02	1	1						
29	1	129508-49030	HOSE ASSY, COOLER IN	1	1						
30	2	171008-03990	CLAMP, HOSE 18.5	1	1						
32	2	23080-015000	CLAMP, 15	1	1						
33	1	129508-49040	HOSE ASSY,COOLER OUT	1	1						
34	2	171008-03990	CLAMP, HOSE 18.5	1	1						
36	2	119940-59130	TUBE, CORRUGATED 19	1	1						
37	2	23080-015000	CLAMP, 15	1	1						
38	1	129103-49301	ELBOW, PT1/4	1	1						
39	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
40	1	119761-39450	SWITCH, HYDRAULIC	1	1						
41	1	124160-39140	BOLT, PIPE JOINT M10	1	1						
42	1	119802-39450	PIPE ASSY, OIL	1	1						
43	1	129005-59830	BOLT ASSY, JOINT M8	1	1						
44	2	22190-080002	WASHER, SEAL 8	1	1						
45	2	23857-030000	BOLT, JOINT 3	1	1						
46	1	22190-080002	WASHER, SEAL 8	1	1						
47	1	22190-100002	WASHER, SEAL 10	2	2						
48	1	26366-060002	NUT, M6	1	1						
49	1	171056-49120	PLUG, DRAIN R1/4	1	1						
50	1	124085-35350	NUT, M20	1	1						
52	1	119005-35151	FILTER, OIL D80X100	1	1						1

Fig.10. COOLING WATER SYSTEM

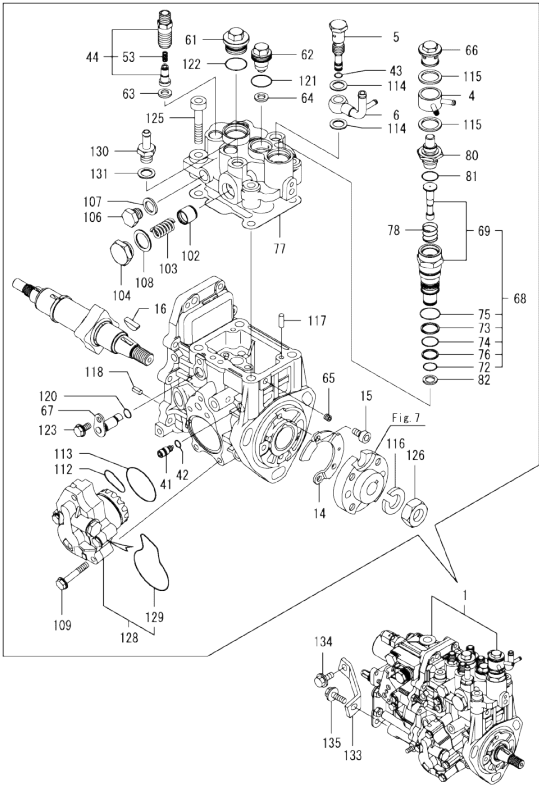


(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42002	PUMP ASSY, CW	1	1						
4	2	129100-42051	GASKET, WATER PUMP	1	1						
11	2	119802-49113	JOINT, PIPE	2	2						
15	1	129486-42021	GASKET, WATER PUMP	1	1						
16	1	129004-42040	JOINT, WATER PIPE	1	1						
17	1	129486-42140	O-RING, G30	1	1						
18	1	124395-49840	GASKET, THERMOSTAT	1	1						
19	1	23414-080000	GASKET, 8X1.0	1	1						
20	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
21	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
22	1	26106-080452	BOLT, M8X 45 PLATED	1	1						
23	1	26106-080602	BOLT, M8X 60 PLATED	3	3						
24	1	129403-42380	V-PULLEY, PUMP	1	1						
25	1	129612-42340	V-BELT, A36	1	1						
26	1	129436-44740	FAN, COOLING D=410	1	1						
27	1	171353-44760	SPACER, FAN 25MM	1	1						
28	1	26106-060402	BOLT, M6X 40 PLATED	4	4						
29	1	129155-49801	THERMOSTAT, 71C	1	1						
30	1	129150-49811	GASKET, THERMOSTAT	1	1						
31	1	129795-49551	GASKET, COVER	1	1						
32	1	129350-49530	COVER, THERMOSTAT	1	1						
33	1	26106-080222	BOLT, M8X 22 PLATED	2	2						
34	1	121450-42450	PLUG, M16	1	1						
35	1	121250-44901	SWITCH, TEMPERATURE	1	1						
36	1	124465-44950	GASKET, 16	1	1						
37	1	124465-44950	GASKET, 16	1	1						
38	1	129004-49610	HOSE ASSY, WATER A	1	1						
39	2	129004-49711	HOSE, WATER A	1	1						
40	2	119802-49730	RETAINER, PIPE	1	1						
41	2	124722-59050	CLAMP, HOSE 9	2	2						
42	1	129004-49620	HOSE ASSY, WATER B	1	1						
43	2	129004-49721	HOSE, WATER B	1	1						
44	2	124722-59050	CLAMP, HOSE 9	2	2						
45	1	26106-060122	BOLT, M6X 12 PLATED	1	1						

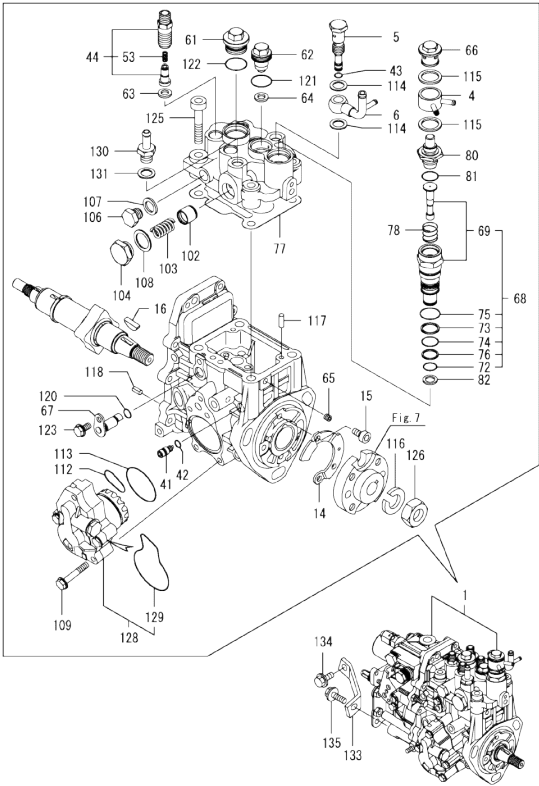
Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).

OCD50-M05200 Fig.11									
(A)=4TNV88-BDFLT (D)= (B)=4TNV88-BDFLTC (E)= (C)= (F)=									
No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	729681-51300	FIE ASSY	1	1				
4	2	158553-51551	JOINT, COOLING WATER	1	1				
5	2	158601-51650	JOINT, OVERFLOW	1	1				
6	2	158552-51670	JOINT, OVERFLOW	1	1				
14	2	129008-51900	COVER, PUMP	1	1				
15	2	129008-51920	BOLT, M6X10	2	2				
16	2	119802-51090	KEY, FEATHER 4X16	1	1				
41	2	158600-51270	STOPPER, TAPPET	1	1				
42	2	158563-51281	O-RING, 4D S6	1	1				
43	2	158563-51281	O-RING, 4D S6	1	1				
44	2	129008-51390	VALVE ASSY, DELIVERY	4	4				
53	3	158563-51330	SPRING, DELIVERY	4	4				
61	2	158601-51550	PLUG, M22	1	1				
62	2	119802-51560	PLUG, BARREL M14	1	1				
63	2	158552-51571	GASKET, BARREL PLUG	4	4				
64	2	158552-51571	GASKET, BARREL PLUG	1	1				
65	2	158557-51570	PLUG, RACK	1	1				
66	2	158601-51570	PLUG	1	1				
67	2	158552-51580	LIFTER, LINK	1	1				
68	2	119802-51590	TIMER ASSY	1	1				
69	3	119802-51600	TIMER ASSY	1	1				
72	3	158553-51670	O-RING, PUMP TIMER	1	1				
73	3	119802-51680	RING, BACKUP	1	1				
74	3	119802-51690	O-RING, 1016	1	1				
75	3	24356-190200	O-RING, 4D19020	1	1				
76	3	24372-000150	RING, BACK UP T2P15	1	1				
77	2	158552-51600	GASKET, HEAD	1	1				
78	2	158553-51630	SPRING, TIMER	1	1				
80	2	158553-51650	ELEMENT, THERMOSTAT	1	1				
81	2	158553-51660	O-RING, P14	1	1				
82	2	158553-51680	GASKET, TIMER	1	1				
102	2	158601-51770	PISTON, ACCUMULATOR	1	1				
103	2	158552-51781	SPRING, ACCUMULATOR	1	1				
104	2	158601-51790	PLUG, ACCUMULATOR	1	1				
106	2	158553-51930	PLUG, M12	1	1				
107	2	22190-120002	WASHER, SEAL 12	1	1				
108	2	22190-180002	WASHER, SEAL 18	1	1				
109	2	158553-51770	BOLT	4	4				
112	2	158552-52311	O-RING, FEED PUMP	1	1				
113	2	158552-52400	O-RING, 4E S42	1	1				
114	2	22190-120002	WASHER, SEAL 12	2	2				
115	2	22190-180002	WASHER, SEAL 18	2	2				
116	2	22217-140000	WASHER, SPRING 14	1	1				
117	2	22312-050140	PIN, PARALLEL 5X14	2	2				
118	2	22351-050010	PIN, SPRING 5.0X10	2	2				
120	2	24311-000070	O-RING, 1AP7.0	1	1				
121	2	24356-190180	O-RING, 4D19018	1	1				
122	2	24356-190200	O-RING, 4D19020	1	1				
123	2	26106-060102	BOLT, M6X 10 PLATED	1	1				
125	2	26450-080452	BOLT, M8X 45	4	4				
126	2	26776-140002	NUT, LOCK M14	1	1				

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).

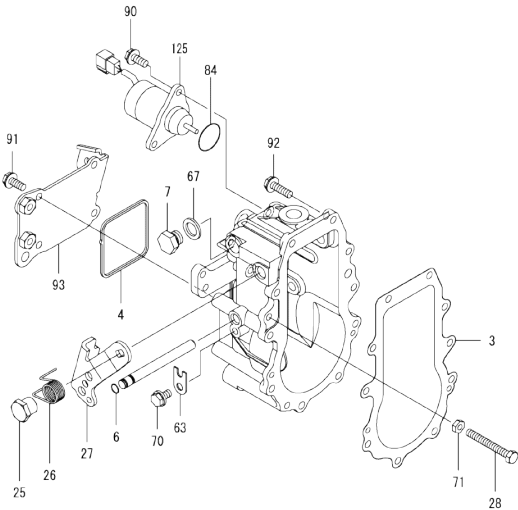
(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
128	2	158552-52100	PUMP ASSY, FUEL FEED	1	1						
129	3	158552-52500	O-RING, PUMP INNER	1	1						
130	2	119934-59910	JOINT, PIPE	1	1						
131	2	22190-120002	WASHER, SEAL 12	1	1						
133	1	129601-51250	RETAINER, FUEL PUMP	1	1						
134	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
135	1	26106-080202	BOLT, M8X 20 PLATED	1	1						

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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OCD50-M05200 ENGINE
Fig.12. GOVERNOR



Remarks
* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.11).

OCD50-M05200 Fig.12

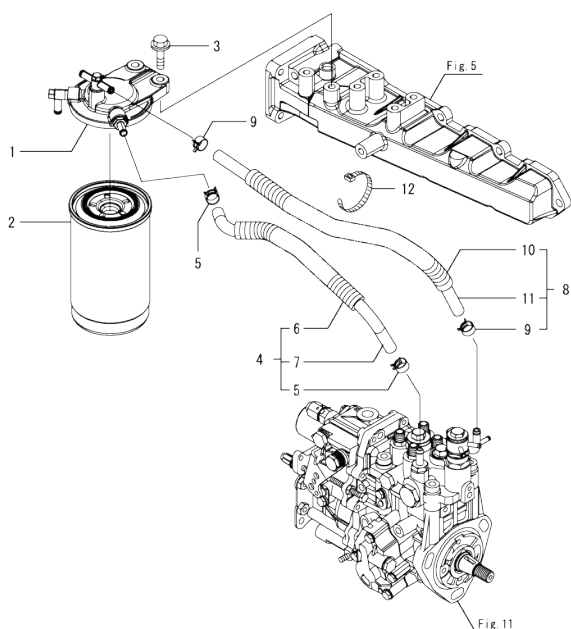
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET, CASE	1	1						
4	2	158553-61070	GASKET, CASE	1	1						
6	2	129155-51280	O-RING, S6	1	1						
7	2	158553-51930	PLUG, M12	1	1						
25	2	129255-61410	NUT, CONTROL LEVER	1	1						
26	2	119807-61420	SPRING, RETURN	1	1						
27	2	158552-61441	LEVER, REGULATOR	1	1						
28	2	129155-61461	BOLT, IDLE LIMIT	1	1						
63	2	119660-61901	STOPPER, SHAFT	1	1						
67	2	22190-120002	WASHER, SEAL 12	1	1						
70	2	26106-060102	BOLT, M6X 10 PLATED	1	1						
71	2	119740-61470	NUT	1	1						
84	2	158552-61900	O-RING	1	1						
90	2	26106-060122	BOLT, M6X 12 PLATED	2	2						
91	2	26106-060122	BOLT, M6X 12 PLATED	4	4						
92	2	26106-060202	BOLT, M6X 20 PLATED	10	10						
93	2	158552-61061	COVER, GOVERNOR CASE	1	1						
125	2	129630-77910	SOLENOID, STOP	1	1						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	4	4						
2	2	114250-53080	NUT, NOZZLE	4	4						
8	2	114250-53120	SPRING, NOZZLE	4	4						
9	2	114250-53130	SEAT, SPRING	4	4						
10	2	114250-53140	SPACER, VALVE STOP	4	4						
11	2	114250-53210	PIN, POSITIONING	8	8						
12	2	129604-53300	VALVE ASSY,INJECTION	4	4						
15	2	119803-53400	SHIM SET	4	4						
42	1	129150-59120	RETAINER, PIPE	1	1						1
45	2	129150-59131	BOLT, M4X14	2	2						
46	1	129550-59120	RETAINER, PIPE	1	1						
49	2	129150-59131	BOLT, M4X14	2	2						
51	1	129601-59810	PIPE ASSY, INJECTION	1	1						
55	1	129601-59820	PIPE ASSY, INJECTION	1	1						
59	1	129601-59830	PIPE ASSY, INJECTION	1	1						
63	1	129601-59840	PIPE ASSY, INJECTION	1	1						
67	1	119802-59550	HOSE ASSY, RETURN	1	1						
68	2	124722-59050	CLAMP, HOSE 9	2	2						
69	2	119802-59560	HOSE, FUEL RETURN	1	1						
70	1	129486-59551	HOSE ASSY, RETURN	3	3						
71	2	124722-59050	CLAMP, HOSE 9	6	6						
73	1	119593-59581	CAP, RETURN PIPE	1	1						
74	1	124060-77680	CLAMP, HOSE 10	1	1						

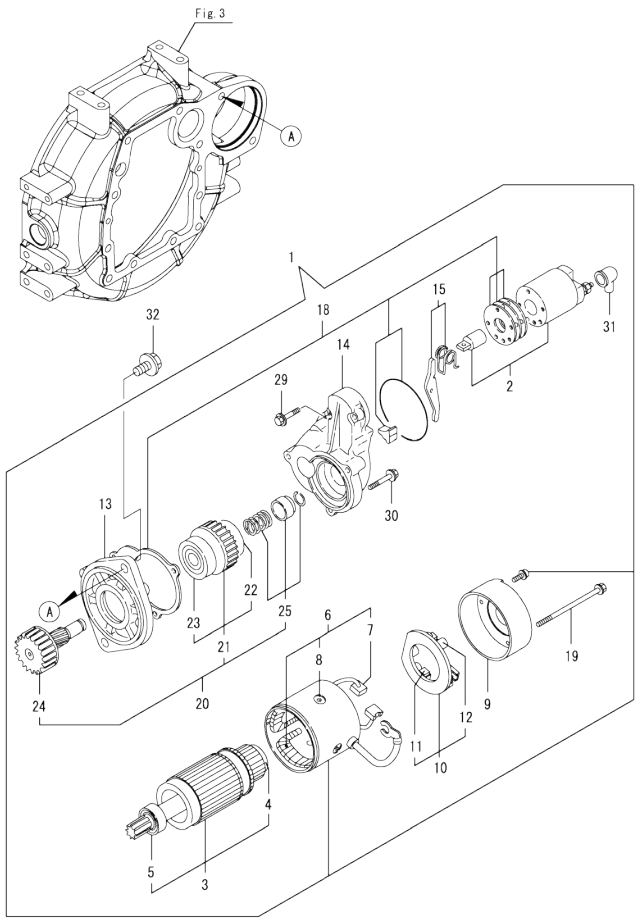
Remarks
(1) Spare parts.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	Q'ty					I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	129004-55612	BRACKET, FILTER	1	1					
2	1	129907-55801	FILTER, FUEL	1	1					
3	1	26106-080302	BOLT, M8X 30 PLATED	2	2					
4	1	129630-59010	HOSE ASSY, FUEL	1	1					
5	2	124766-59050	CLAMP, HOSE 11.5	2	2					
6	2	129961-59110	TUBE, CORRUGATED 15	1	1					
7	2	105025-59560	HOSE, FUEL	1	1					
8	1	129956-59010	HOSE ASSY, FUEL	1	1					
9	2	124766-59050	CLAMP, HOSE 11.5	2	2					
10	2	129957-59101	TUBE, CORRUGATED 15	1	1					
11	2	105225-59511	HOSE, FUEL	1	1					
12	1	121750-59890	BAND, NYLON	1	1					

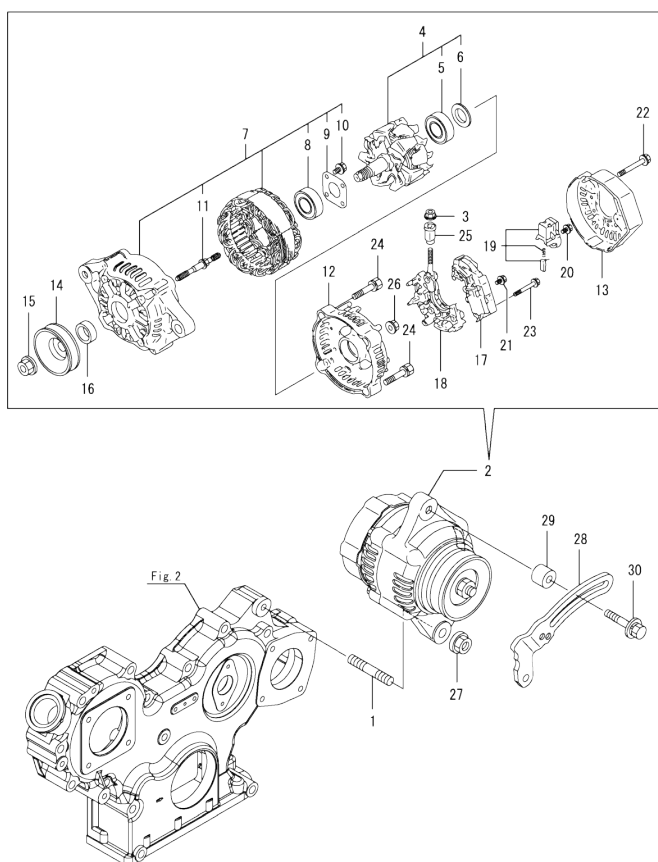
Fig.15. STARTER MOTOR



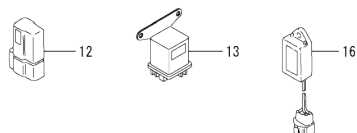
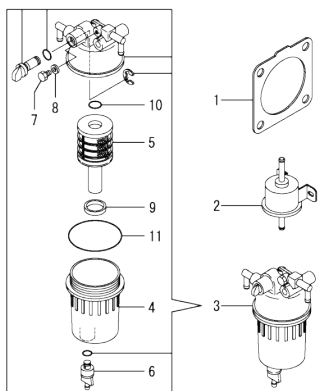
(A)=4TNV88-BDFLT
(B)=4TNV88-BDFLTC
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129136-77011	STARTER	1	1						
2	2	129136-77310	SWITCH ASSY, MAGNET	1	1						
3	2	129900-77400	ARMATURE ASSY	1	1						
4	3	X2130350900	BEARING, BALL	1	1						
5	3	X2114255110	BEARING, BALL	1	1						
6	2	129900-77440	COIL ASSY, FIELD	1	1						
7	3	129900-77450	BRUSH, +	2	2						
8	3	171008-77450	SCREW, CORE SET	4	4						
9	2	129900-77460	COVER, REAR	1	1						
10	2	129900-77480	HOLDER ASSY, BRUSH	1	1						
11	3	129900-77500	BRUSH	2	2						
12	3	129400-77490	SPRING, BRUSH	4	4						
13	2	171008-77510	CASE, GEAR	1	1						
14	2	129136-77520	HOUSING, STARTOR	1	1						
15	2	171008-77540	LEVER SET, SHIFT	1	1						
18	2	129400-77571	COVER KIT, DUST	1	1						
19	2	129900-77640	BOLT, THROUGH	2	2						
20	2	171008-77650	PINION ASSY,W/CLUTCH	1	1						
21	3	X2114555500	CLUTCH ASSY	1	1						
22	4	X2114955020	BEARING, BALL	1	1						
23	4	X2240410100	BEARING, BALL	1	1						
24	3	171008-77660	SHAFT, PINION	1	1						
25	3	171008-77670	STOPPER SET, PINION	1	1						
29	2	26106-060322	BOLT, M6X 32 PLATED	2	2						
30	2	26106-060402	BOLT, M6X 40 PLATED	3	3						
31	2	171008-77750	COVER, TERMINAL	1	1						
32	1	26106-120252	BOLT, M12X 25 PLATED	2	2						



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	BOLT, M10X30	1	1						
2	1	119626-77220	ALTERNATOR, 12V-55A	1	1						
3	2	X9490561001	NUT	1	1						
4	2	129052-77380	ROTOR ASSY	1	1						
5	3	123501-79240	BEARING, BALL	1	1						
6	3	119620-79250	COVER, BEARING	1	1						
7	2	129052-77422	FRAME ASSY	1	1						
8	3	119620-79200	BEARING, BALL	1	1						
9	3	119620-79210	PLATE, RETAINER	1	1						
10	3	119620-79220	SCREW	4	4						
11	3	119620-79230	STUD	2	2						
12	2	128401-77440	COVER, END	1	1						
13	2	119626-77450	COVER, END	1	1						
14	2	119620-77461	PULLEY, GENERATOR	1	1						
15	2	119620-77471	NUT	1	1						
16	2	119620-77490	COLLAR	1	1						
17	2	129423-77720	REGULATOR ASSY	1	1						
18	2	129052-79260	HOLDER ASSY	1	1						
19	2	129052-79270	HOLDER ASSY, BRUSH	1	1						
20	2	119620-79290	SCREW	6	6						
21	2	119620-79300	SCREW	1	1						
22	2	119620-79310	BOLT	3	3						
23	2	119620-79320	SCREW, W/WASHER	2	2						
24	2	119620-79330	BOLT	2	2						
25	2	119620-79340	BUSH, INSULATION	1	1						
26	2	119620-79350	NUT	2	2						
27	1	26306-100002	NUT, M10	1	1						
28	1	129064-77330	ADJUSTER, BELT	1	1						
29	1	129067-77340	SPACER, ADJUSTER	1	1						
30	1	129972-77341	BOLT, ADJUSTER L=50	1	1						



				(A)=4TNV88-BDFLT (B)=4TNV88-BDFLTC (C)=	(D)= (E)= (F)=								
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty		I	R
1	1	129930-13201	GASKET, SILENCER	1	1								
2	1	129612-52100	PUMP, FUEL FEED	1	1								
3	1	129242-55701	SEPARATOR ASSY,WATER	1	1								
4	2	129242-55720	CUP, SEPARATOR	1	1								
5	2	129242-55730	ELEMENT, FUEL FILTER	1	1								
6	2	129242-55740	PLUG, DRAIN	1	1								
7	2	129242-55750	VALVE, AIR VENT	1	1								
8	2	129242-55760	GASKET, PLUG	1	1								
9	2	129242-55770	FLOAT	1	1								
10	2	24311-000160	O-RING, 1AP16.0	1	1								
11	2	24321-000750	O-RING, 1AG75.0	1	1								
12	1	119643-66900	DIODE	1	1								
13	1	119650-77911	RELAY ASSY, GLOW	1	1								
16	1	129211-77920	TIMER, SECTION 1	1	1								

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	14	7
105225-59511	14	11
114250-53080	13	2
114250-53120	13	8
114250-53130	13	9
114250-53140	13	10
114250-53210	13	11
119005-35151	9	52
119131-18320	6	5
119226-07900	4	52
119593-59581	13	73
119609-32040	2	9
119620-01750	3	3
119620-77461	16	14
119620-77471	16	15
119620-77490	16	16
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79290	16	20
119620-79300	16	21
119620-79310	16	22
119620-79320	16	23
119620-79330	16	24
119620-79340	16	25
119620-79350	16	26
119625-11880	4	30
119626-77220	16	2
119626-77450	16	13
119640-01640	3	8
119643-66900	17	12
119650-77911	17	13
119660-61901	12	63
119740-61470	12	71
119761-39450	9	40
119802-01561	2	5
119802-03110	4	41
119802-03121	4	42
119802-03130	4	43
119802-03141	4	44
119802-11260	4	4
119802-11270	4	5
119802-11870	4	29
119802-21650	8	8
119802-25071	7	27
119802-25101	7	10
119802-25901	7	15
119802-39450	9	42

Parts No.	Fig. No.	Ref. No.
119802-49113	10	11
119802-49730	10	40
119802-51090	11	16
119802-51560	11	62
119802-51590	11	68
119802-51600	11	69
119802-51680	11	73
119802-51690	11	74
119802-59550	13	67
119802-59560	13	69
119803-21200	8	4
119803-25050	7	9
119803-53400	13	15
119803-77830	4	57
119807-61420	12	26
119865-21600	8	14
119934-01800	2	3
119934-59910	11	130
119940-59130	9	36
120130-11860	4	58
120270-54410	4	32
121023-01551	2	22
121023-26071	7	16
121111-21501	8	11
121250-44901	10	35
121400-11340	4	25
121450-42450	10	34
121520-34810	9	16
121550-23200	8	29
121750-59890	14	12
121850-21680	8	10
121850-51960	2	10
123501-79240	16	5
123900-13610	6	3
124060-01050	1	4
124060-77680	13	74
124085-35350	9	50
124160-01751	2	6
	4	37
124160-01910	1	6
		7
124160-11360	4	49
124160-39140	9	41
124240-01871	2	7
	19	
124395-49840	10	18
124460-11340	4	26
124465-44950	10	36
		37
124722-59050	10	41

Parts No.	Fig. No.	Ref. No.
124722-59050	10	44
	13	68
		71
124766-59050	14	5
		9
128401-77440	16	12
129001-01250	1	5
129001-02931	1	29
129004-03010	4	39
129004-11650	4	7
129004-11900	4	31
129004-34802	9	15
129004-42002	10	1
129004-42040	10	16
129004-49610	10	38
129004-49620	10	42
129004-49711	10	39
129004-49721	10	43
129004-55612	14	1
129005-11100	4	21
129005-22080	8	15
129005-22500	8	17
129005-22900	8	35
129005-22950	8	37
129005-59830	9	43
129006-35100	9	23
129006-44480	9	28
129008-51390	11	44
129008-51900	11	14
129008-51920	11	15
129008-77800	4	55
129052-77380	16	4
129052-77422	16	7
129052-79260	16	18
129052-79270	16	19
129064-77330	16	28
129067-77340	16	29
129100-01580	3	1
		15
	8	2
129100-11112	4	22
129100-23910	8	32
129100-42051	10	4
129103-49301	9	38
129136-77011	15	1
129136-77310	15	2
129136-77520	15	14
129150-01200	1	27
129150-02020	1	9
129150-02450	7	4

Parts No.	Fig. No.	Ref. No.
129150-02871	1	32
129150-02931	1	24
129150-02941	1	35
129150-03070	4	40
129150-11230	4	8
129150-11280	4	6
129150-11370	4	12
129150-11750	4	10
129150-11810	4	59
129150-14101	7	6
129150-14200	7	1
129150-14400	7	2
129150-23601	8	30
129150-23611	8	33
129150-25301	7	14
129150-32020	9	13
129150-35042	9	17
129150-35111	9	27
129150-49811	10	30
129150-59120	13	42
129150-59131	13	45
		49
129150-77511	5	8
129155-49801	10	29
129155-51280	12	6
129155-61461	12	28
129202-22300	8	23
129211-77920	17	16
129242-55701	17	3
129242-55720	17	4
129242-55730	17	5
129242-55740	17	6
129242-55750	17	7
129242-55760	17	8
129242-55770	17	9
129255-61410	12	25
129350-49530	10	32
129400-01730	3	6
129400-77490	15	12
129400-77571	15	18
129403-42380	10	24
129407-01340	1	28
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