

0CW10-M71800EN

P R E F A C E

1. This parts catalog is the 1st edition of 4TNV88-BDDR for DORAJ.

Pub.No. : 0CW10-G71800

Published : March, 2011

2. Model name

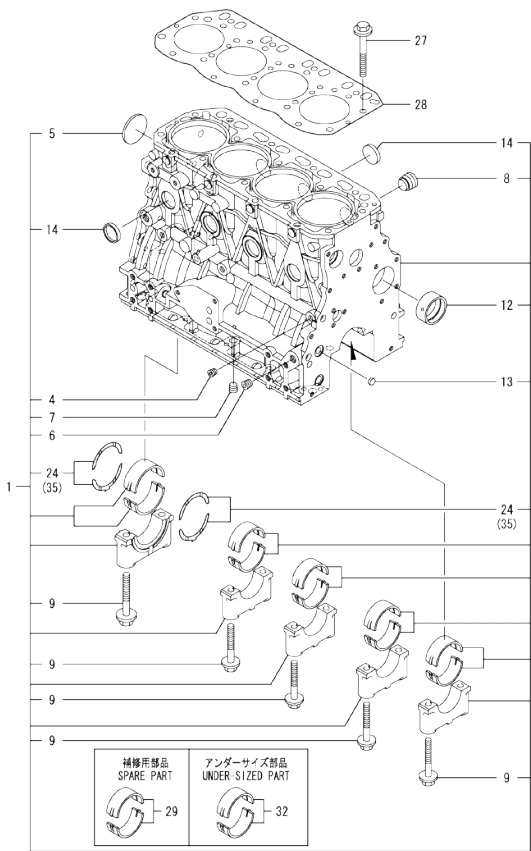
Engine model	Vehicle	Vehicle made by
4TNV88-BDDR	SSL	DORAJ

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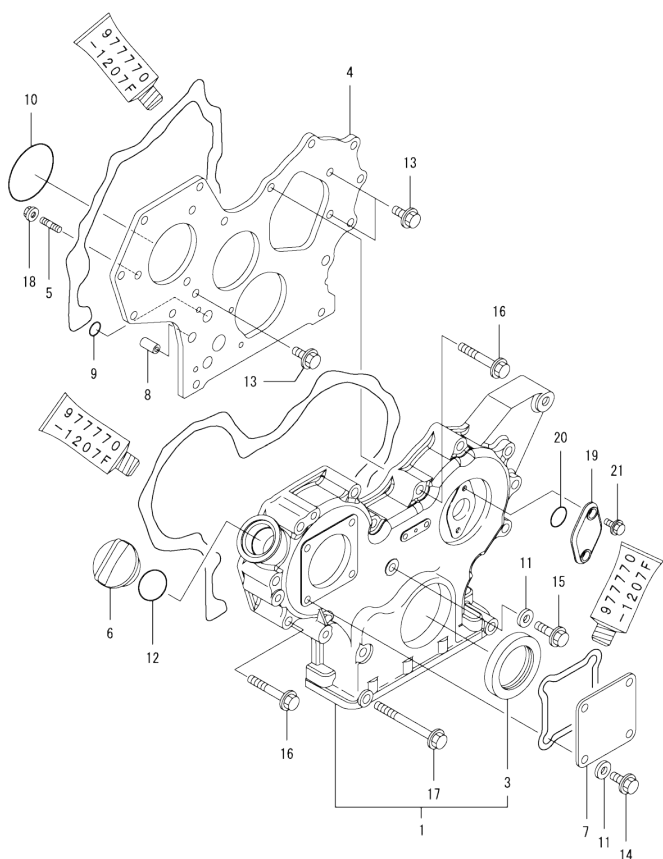
Fig.1. CYLINDER BLOCK



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

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

Fig.2. GEAR HOUSING



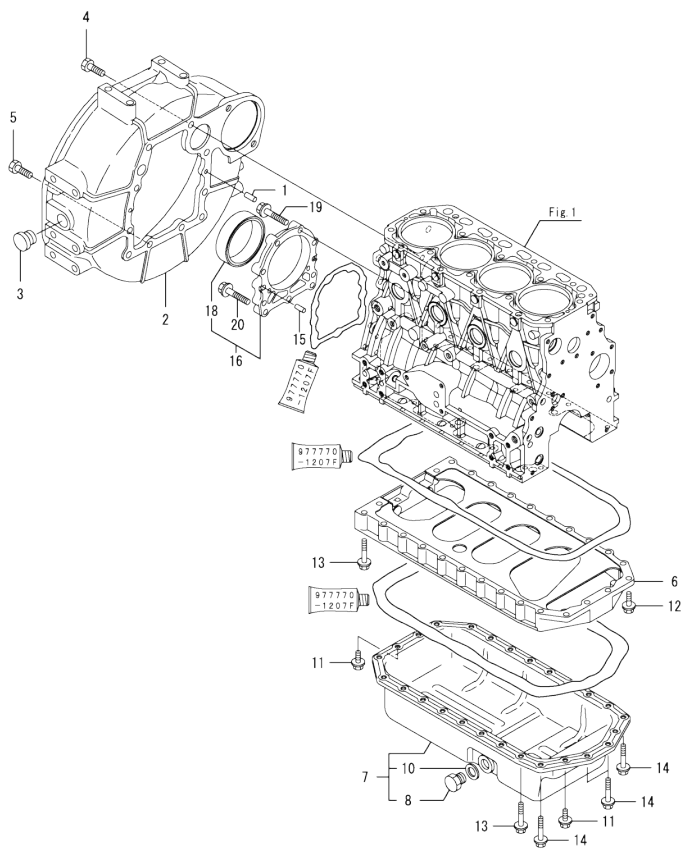
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719803-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	COVER, FILLER	1							
7	1	124240-01871	COVER	1							
8	1	129795-01950	PIPE, KNOCK L=18	2							
9	1	119609-32040	O-RING, P16	2							
10	1	121850-51960	O-RING	1							
11	1	22190-080002	WASHER, SEAL 6	5							
12	1	24311-000320	O-RING, 1AP32.0	1							
13	1	26106-080162	BOLT, M&X 16 PLATED	3							
14	1	26106-080162	BOLT, M&X 16 PLATED	4							
15	1	26106-080302	BOLT, M&X 30 PLATED	1							
16	1	26106-080552	BOLT, M&X 55 PLATED	12							
17	1	26106-080852	BOLT, M&X 85 PLATED	3							
18	1	26306-080002	NUT, M8	3							
19	1	121023-01551	COVER	1							
20	1	24341-000240	O-RING, 1AS24.0	1							
21	1	26106-060162	BOLT, M&X 16 PLATED	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.3. FLYWHEEL HOUSING & OIL SUMP



0CW10-M71800 Fig.3

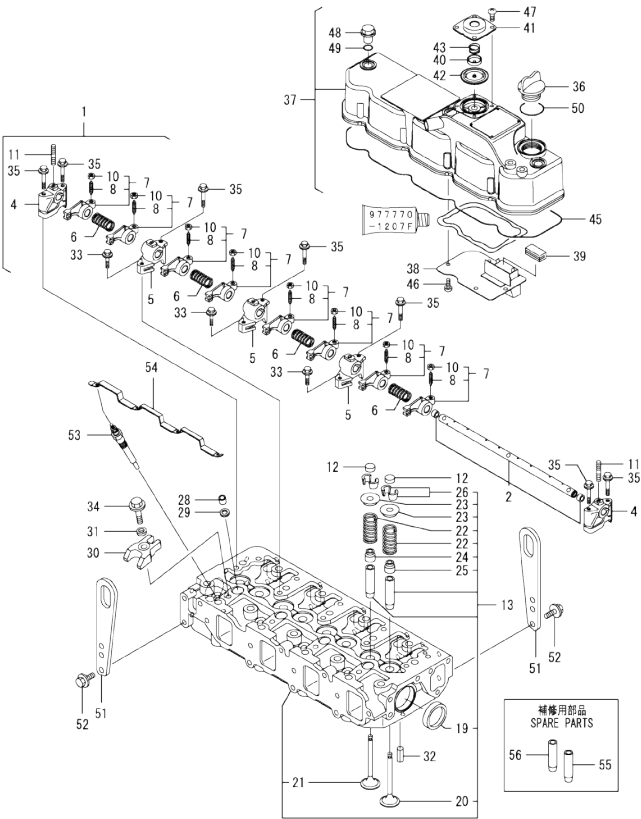
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129400-01730	SPACER, OIL SUMP	1							
7	1	129400-01770	SUMP ASSY, OIL	1							
7-1	1	129688-01780	OIL PAN ASSY, DEEP	1							N
(A=EJ1325)											
8	2	119640-01640	PLUG, DRAIN M22	1							
10	2	22190-220002	WASHER, SEAL 22	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	4							
12	1	26106-080252	BOLT, M8X 25 PLATED	2							
13	1	26106-080452	BOLT, M8X 45 PLATED	20							
14	1	26106-080502	BOLT, M8X 50 PLATED	4							
15	1	129100-01580	PIN, M8X16	2							
16	1	129100-01640	CASE ASSY, OIL SEAL	1							
18	2	129795-01780	SEAL, OIL	1							
19	1	129486-01670	BOLT, M8X30	6							
20	1	26106-080352	BOLT, M8X 35 PLATED	3							

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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

0CW10-M71800 Fig.4

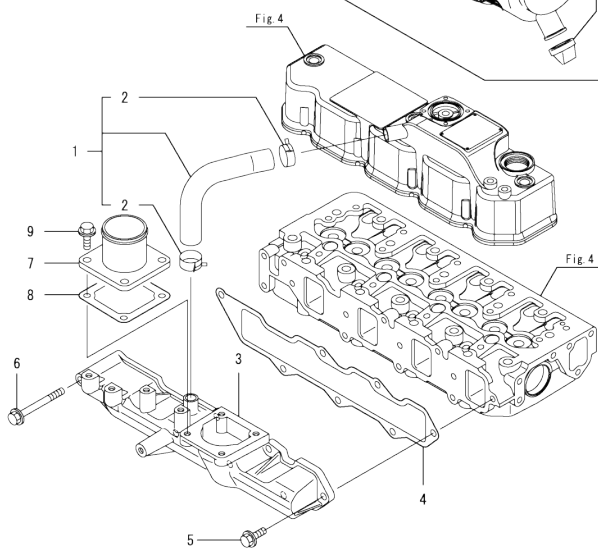
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(B)=
(C)=

(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							
2	2	129601-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	3							
6	2	129150-11280	SPRING	4							
7	2	129004-11650	ARM, ROCKER	8							
8	3	129150-11230	SCREW, VALVE ADJUST	8							
10	3	129150-11750	NUT, M8	8							
11	2	26226-080182	STUD, M8X 18	3							
12	1	129150-11370	CAP, VALVE	8							
13	1	129604-11710	HEAD ASSY, CYLINDER	1							
19	2	27241-400000	PLUG, 40	2							
20	2	129005-11100	VALVE, INTAKE	4							
21	2	129100-11112	VALVE, EXHAUST	4							
22	2	129795-11120	SPRING, VALVE	8							
23	2	129795-11180	RETAINER, SPRING	8							
24	2	121400-11340	SEAL, VALVE STEM	4							
25	2	124460-11340	SEAL, VALVE STEM	4							
26	2	27310-080001	COTTER, 8	8							
28	1	119802-11870	PROTECTOR, NOZZLE	4							
29	1	119625-11880	SEAT, NOZZLE	4							
30	1	129004-11900	RETAINER, NOZZLE	4							
31	1	120270-54410	WASHER, INJECTOR	4							
32	1	22351-060012	PIN, SPRING 6.0X12	2							
33	1	26106-080252	BOLT, M8X 25 PLATED	3							
34	1	26106-080352	BOLT, M8X 35 PLATED	4							
35	1	26106-080502	BOLT, M8X 50 PLATED	7							
36	1	124160-01751	COVER, FILLER	1							
37	1	129601-11350	BONNET ASSY, HEAD	1							
38	2	129004-03010	PLATE	1							
39	2	129150-03070	BAFFLE, BREATHER	1							
40	2	119802-03110	PLATE	1							
41	2	119802-03121	COVER, DIAPHRAGM	1							
42	2	119802-03130	DIAPHRAGM	1							
43	2	119802-03141	SPRING, DIAPHRAGM	1							
45	2	129601-11310	GASKET, BONNET	1							
46	2	22857-500100	SCREW, 5X10	4							
47	2	22857-500100	SCREW, 5X10	4							
48	1	124160-11360	KNOB	3							
49	1	24311-000120	O-RING, 1AP12.0	3							
50	1	24311-000320	O-RING, 1AP32.0	1							
51	1	129900-07900	LIFTER	2							
52	1	26106-080162	BOLT, M8X 16 PLATED	4							1
53	1	129008-77800	PLUG, GLOW	4							
54	1	129604-77821	CONNECTOR, GLOW PLUG	1							
55	1	120130-11860	GUIDE, VALVE	4							1
56	1	129150-11810	GUIDE, VALVE	4							1

N:Old $\frac{NBS}{100}$ New, Q:Old $\frac{HQ}{100}$ New, R:Old $\frac{RBS}{100}$ New, S:Old $\frac{HS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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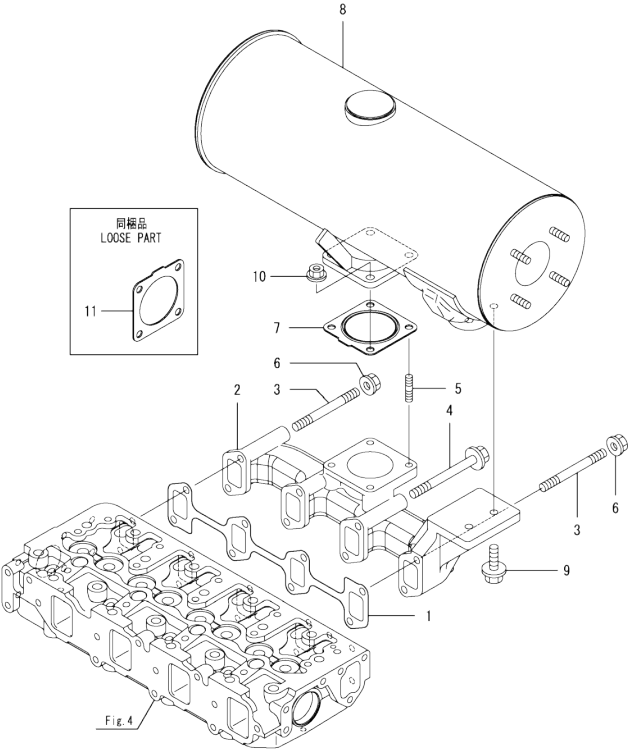
Fig.5. SUCTION MANIFOLD & AIR CLEANER



					OCW10-M71800 Fig.5						
					(A)=	(D)=					
					(B)=	(E)=					
					(C)=	(F)=					
No.	Lev.	Parts No.	Description		(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	129005-03080	PIPE , BREATHER		1						
2	2	129410-03990	CLAMP 22		2						
3	1	129602-12101	MANIFOLD, AIR INTAKE		1						
4	1	129407-12110	GASKET, MANIFOLD		1						
5	1	26106-080202	BOLT, M8X 20 PLATED		6						
6	1	26106-080802	BOLT, M8X 80 PLATED		1						
7	1	129486-12581	JOINT, MANIFOLD		1						
8	1	129150-77511	GASKET		1						
9	1	26106-080202	BOLT, M8X 20 PLATED		4						
10	1	129601-12590	CLEANER ASSY, AIR		1						
11	2	129457-12530	COVER		1						
12	2	119808-12540	VALVE, UNLOADER		1						
13	2	129062-12560	ELEMENT		1						
14	2	119005-12571	ELEMENT		1						
15	2	129612-12650	LABEL, MARKING		1						
16	2	126650-12680	INDICATOR		1						

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Fig.6. EXHAUST MANIFOLD & SILENCER



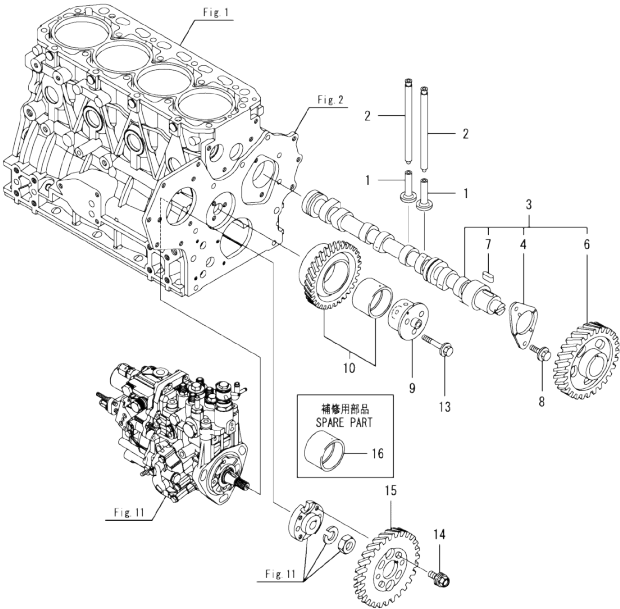
0CW10-M71800 Fig.6

(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129550-13110	GASKET	1							
2	1	129601-13110	MANIFOLD, EXHAUST	1							
3	1	123900-13610	STUD, M8X80	2							
4	1	123900-13630	BOLT, M8X80	6							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	129930-13201	GASKET, SILENCER	1							
8	1	129601-13500	SILENCER	1							
9	1	26106-080252	BOLT, M8X 25 PLATED	2							
10	1	26306-080002	NUT, M8	4							
11	1	129930-13201	GASKET, SILENCER	1							

Fig.7. CAMSHAFT & DRIVING GEAR



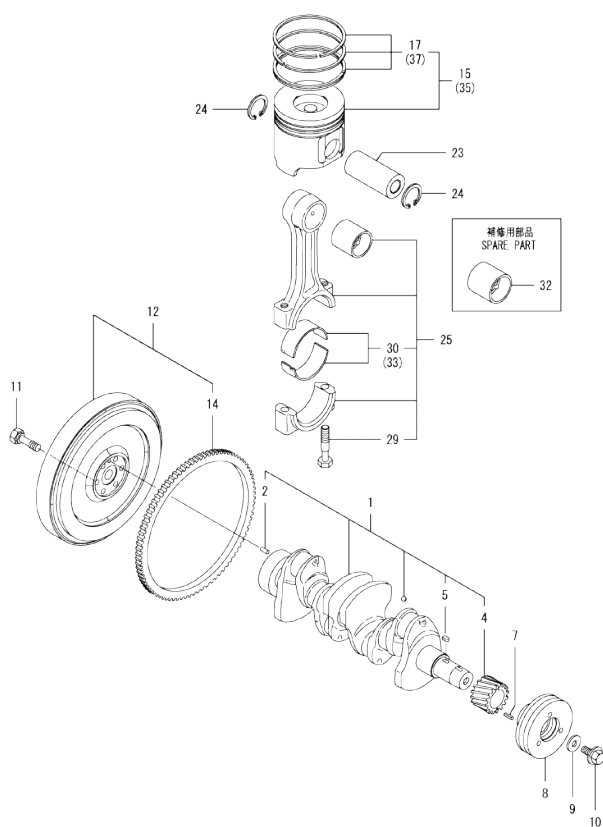
Remarks
(1)Spare parts.

(A)=4TNV88-BDDR
(B)=
(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							
2	1	129150-14400	ROD, PUSH L=178	8							
3	1	729402-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	119803-25050	SHAFT, IDLE	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	26106-080402	BOLT, M8X 40 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119802-25901	GEAR, PUMP	1							
16	1	119802-25071	BUSH, IDLE GEAR	1							1

Fig.8. CRANKSHAFT & PISTON



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

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

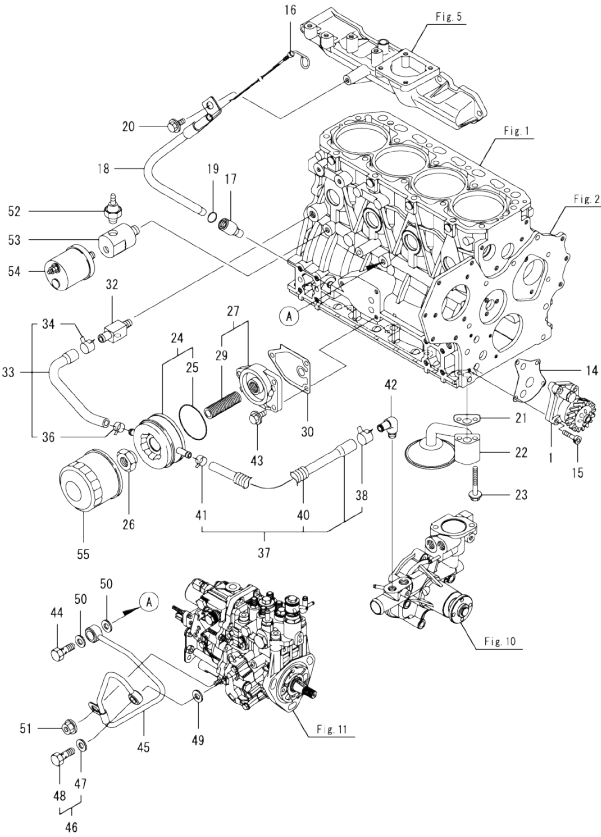
(A)=4TNV88-BDDR
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129604-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	119802-21660	V-PULLEY, 120	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171420-21580	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	129005-22080	PISTON ASSY	4							
17	2	129005-22500	RING SET, PISTON	4							
23	1	129202-22300	PIN, PISTON D26 L70	4							
24	1	22252-000260	RING, 26	8							
25	1	729402-23100	ROD ASSY, CONNECTING	4							
29	2	121550-23200	BOLT, CONNECTING ROD	8							
30	2	129150-23601	BEARING, CRANK PIN	4							
32	1	129100-23910	BEARING, PISTON PIN	4							1
33	1	129150-23611	BEARING, 0.25 US	4							2
35	1	129005-22900	PISTON ASSY, 0.25 OS	4							3
37	2	129005-22950	RING SET, 0.25 OS	4							

N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

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Fig.9. LUB. OIL SYSTEM



Remarks
(1)Spare parts.

0CW10-M71800 Fig.9

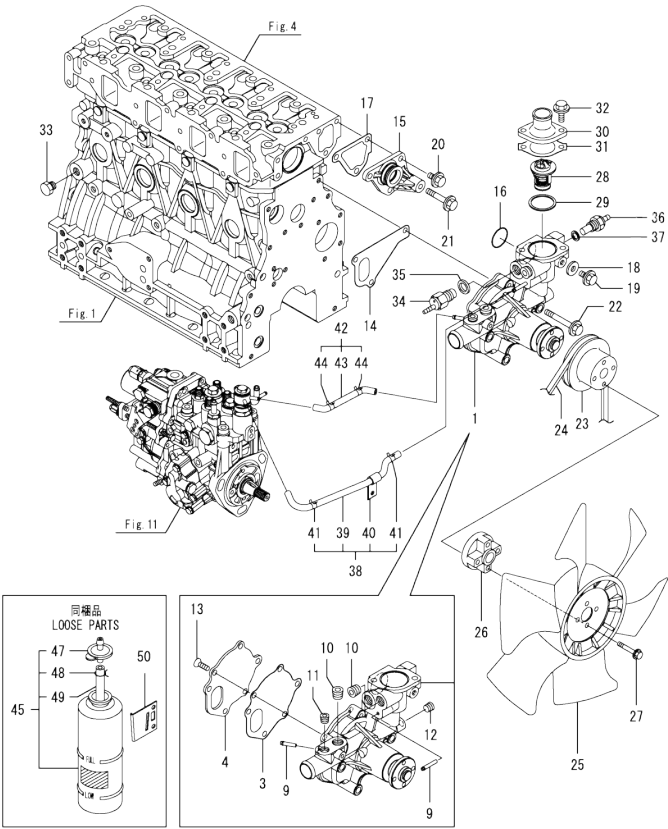
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-32000	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	129601-34801	DIPSTICK, OIL	1							
17	1	119260-34810	GUIDE, DIPSTICK	1							
18	1	119802-34850	GUIDE, DIPSTICK	1							
19	1	24316-240100	O-RING, 4DP10A	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	1							
21	1	129150-35042	GASKET	1							
22	1	129436-35070	PIPE ASSY, LUB. OIL	1							
23	1	26106-080552	BOLT, M8X 55 PLATED	2							
24	1	129508-33010	COOLER ASSY, OIL	1							
25	2	129508-33050	O-RING	1							
26	1	129417-33110	NUT	1							
27	1	129006-35100	BRACKET ASSY, FILTER	1							
29	2	129417-35150	STUD, L=67	1							
30	1	129150-35111	GASKET	1							
32	1	129006-44480	JOINT	1							
33	1	129508-49030	PIPE ASSY, WATER	1							
34	2	171008-03990	CLIP, HOSE 18.5	1							
36	2	23080-015000	CLAMP, 15	1							
37	1	129508-49040	PIPE ASSY, WATER	1							
38	2	171008-03990	CLIP, HOSE 18.5	1							
40	2	119940-59130	TUBE, CORRUGATED	1							
41	2	23080-015000	CLAMP, 15	1							
42	1	129103-49301	ELBOW, PT1/4	1							
43	1	26106-080202	BOLT, M8X 20 PLATED	3							
44	1	124160-39140	BOLT, PIPE JOINT M10	1							
45	1	119802-39450	PIPE ASSY, OIL	1							
46	1	129005-59830	BOLT ASSY, JOINT M8	1							
47	2	22190-080002	WASHER, SEAL 6	1							
48	2	23857-030000	BOLT, JOINT 3	1							
49	1	22190-080002	WASHER, SEAL 6	1							
50	1	22190-100002	WASHER, SEAL 10	2							
51	1	26366-060002	NUT, M6	1							
52	1	114250-39450	SWITCH, 0.5KG	1							
53	1	171375-39601	DAMPER, 1/8	1							
54	1	119773-91501	SENSOR	1							
55	1	129150-35153	FILTER 80X80L	1							1

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.10. COOLING WATER SYSTEM

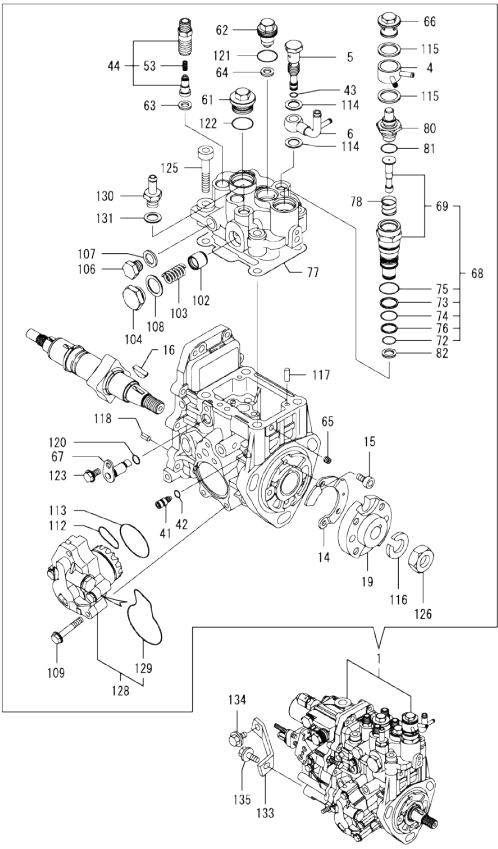


(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE	1							
9	2	119802-49113	JOINT, PIPE	2							
10	2	129916-49740	PLUG, R03	2							
11	2	23875-020000	PLUG, R02	1							
12	2	23876-010000	PLUG, R01	1							
13	2	26577-060142	SCREW M 6X 14	3							
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET	1							
18	1	23414-080000	GASKET, 8X1.0	1							
19	1	26106-080122	BOLT, M8X 12 PLATED	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	3							
21	1	26106-080452	BOLT, M8X 45 PLATED	1							
22	1	26106-080602	BOLT, M8X 60 PLATED	3							
23	1	129403-42380	V-PULLEY, D=110	1							
24	1	129211-42290	V-BELT, A38.5	1							
25	1	129612-44700	FAN, COOLING	1							
26	1	171353-44760	SPACER, FAN	1							
27	1	26106-060402	BOLT, M6X 40 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71	1							
29	1	129150-49811	GASKET, THERMOSTAT	1							
30	1	129350-49530	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET	1							
32	1	26106-080222	BOLT, M8X 22 PLATED	2							
33	1	171056-49120	PLUG, DRAIN	1							
34	1	121250-44901	SWITCH, 110	1							
35	1	124465-44950	GASKET, 16	1							
36	1	124250-49351	SENSOR	1							
37	1	129150-49360	GASKET	1							
38	1	129004-49610	PIPE ASSY, WATER	1							
39	2	129004-49711	PIPE ASSY, WATER	1							
40	2	119802-49730	RETAINER, PIPE	1							
41	2	124722-59050	CLIP, HOSE 9	2							
42	1	129004-49620	PIPE ASSY, WATER	1							
43	2	129004-49721	PIPE ASSY, WATER	1							
44	2	124722-59050	CLIP, HOSE 9	2							
45	1	124450-44510	TANK ASSY, SUB	1							
47	2	124450-44530	CAP	1							
48	2	124450-44560	RETAINER	1							
49	2	23061-070230	PIPE, 7X 230	1							
50	1	121256-44600	BRACKET, SUB TANK	1							

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12)is incorporated in
this Fuel Injection Pump (Ref.1).

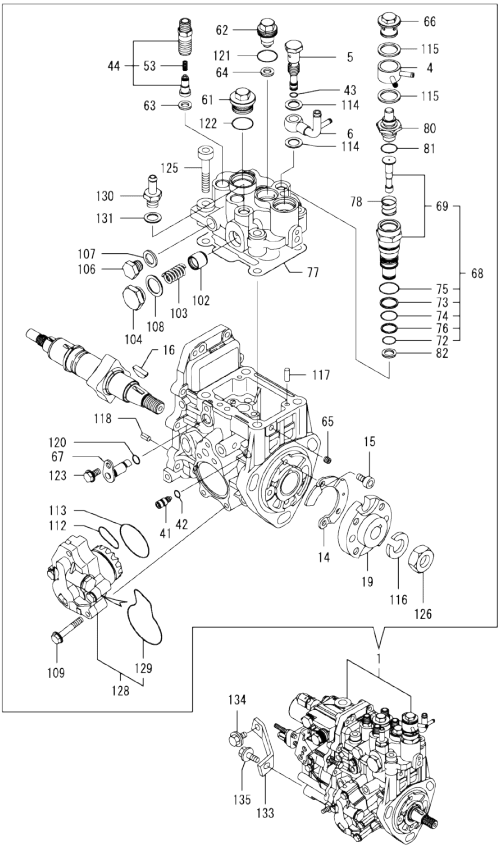
(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729688-51320	PUMP ASSY, INJECTION	1							1
4	2	158553-51551	JOINT	1							
5	2	158601-51650	JOINT, OVER FLOW	1							
6	2	158552-51670	JOINT, OVER FLOW	1							
14	2	129008-51900	COVER, GEAR CASE	1							
15	2	129008-51920	BOLT, M6X10	2							
16	2	119802-51090	KEY, 4X16	1							
19	2	158552-51151	FLANGE	1							
41	2	158600-51270	STOPPER, TAPPET	1							
42	2	158563-51281	O-RING, 4D S6	1							
43	2	158563-51281	O-RING, 4D S6	1							
44	2	129008-51390	VALVE ASSY, DELIVERY	4							
53	3	158563-51330	SPRING, DELIVERY	4							
61	2	158601-51550	PLUG	1							
62	2	119802-51560	PLUG, BARREL	1							
63	2	158552-51571	GASKET	3							
64	2	158552-51571	GASKET	1							
65	2	158557-51570	PLUG	1							
66	2	158601-51570	PLUG	1							
67	2	158552-51580	LIFTER	1							
68	2	119802-51590	TIMER SET	1							
69	3	119802-51600	TIMER ASSY	1							
72	3	158553-51670	O-RING, 1011	1							
73	3	119802-51680	RING, BACK UP	1							
74	3	119802-51690	O-RING	1							
75	3	24356-190200	O-RING, 4D19020	1							
76	3	24372-000150	RING, BACK UP T2P15	1							
77	2	158552-51600	GASKET	1							
78	2	158553-51630	SPRING, TIMER	1							
80	2	158553-51650	ELEMENT	1							
81	2	158553-51660	O-RING, P14	1							
82	2	158553-51680	GASKET	1							
102	2	158601-51770	PISTON	1							
103	2	158552-51781	SPRING	1							
104	2	158601-51790	PLUG	1							
106	2	158553-51930	PLUG, M12	1							
107	2	22190-120002	WASHER, SEAL 12	1							
108	2	22190-180002	WASHER, SEAL 18	1							
109	2	158553-51770	BOLT	4							
112	2	158552-52311	O-RING	1							
113	2	158552-52400	O-RING, 4E S42	1							
114	2	22190-120002	WASHER, SEAL 12	2							
115	2	22190-180002	WASHER, SEAL 18	2							
116	2	22217-140000	WASHER, SPRING 14	1							
117	2	22312-050140	PIN, PARALLEL M5X14	2							
118	2	22351-050010	PIN, SPRING 5.0X10	2							
120	2	24311-000070	O-RING, 1AP7.0	1							
121	2	24356-190180	O-RING, 4D19018	1							
122	2	24356-190200	O-RING, 4D19020	1							
123	2	26106-060102	BOLT, M6X 10 PLATED	1							
125	2	26450-080452	BOLT, M8X 45	4							

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
++ CONTINUE ++
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Fig.11. FUEL INJECTION PUMP



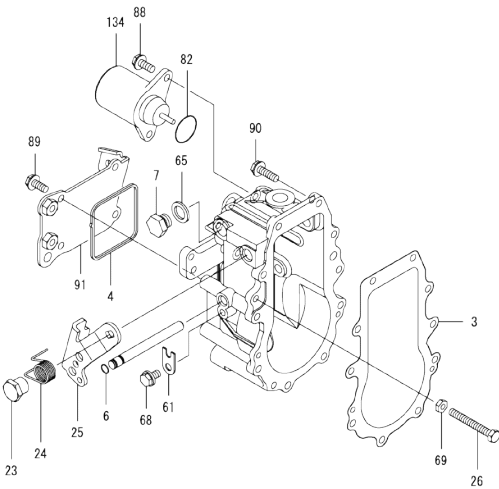
(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
126	2	26776-140002	NUT, LOCK M14	1							
128	2	158552-52100	PUMP ASSY, FUEL FEED	1							
129	3	158552-52500	O-RING	1							
130	2	119934-59910	JOINT, PIPE	1							
131	2	22190-120002	WASHER, SEAL 12	1							
133	1	129601-51250	RETAINER, PUMP	1							
134	1	26106-080162	BOLT, M8X 16 PLATED	1							
135	1	26106-080202	BOLT, M8X 20 PLATED	1							

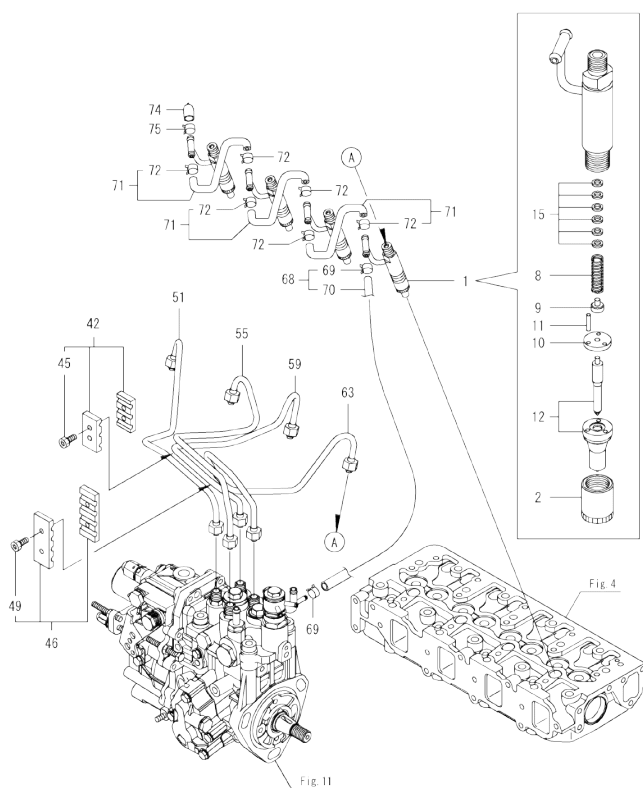
Remarks
(1)Governor(Fig.12)is incorporated in
this Fuel Injection Pump (Ref.1).

Fig.12. GOVERNOR



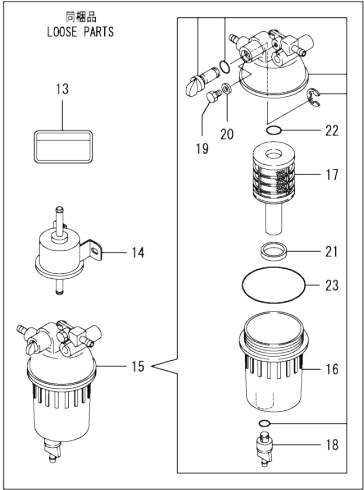
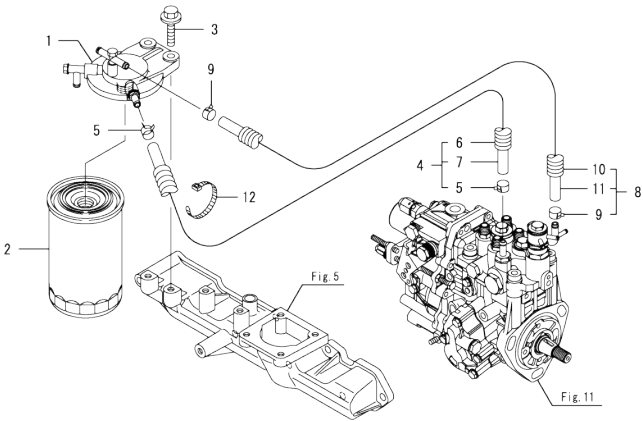
Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.11).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
7	2	158553-51930	PLUG, M12	1							
23	2	129255-61410	NUT, LOCK	1							
24	2	119807-61420	SPRING, RETURN	1							
25	2	158552-61441	LEVER, REGULATOR	1							
26	2	129155-61460	BOLT, IDLE	1							
61	2	119660-61901	RETAINER, SHAFT	1							
65	2	22190-120002	WASHER, SEAL 12	1							
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26756-060002	NUT, LOCK M6	1							
82	2	158552-61900	O-RING	1							
88	2	26106-060142	BOLT, M6X 14 PLATED	2							
89	2	26106-060142	BOLT, M6X 14 PLATED	4							
90	2	26106-060202	BOLT, M6X 20 PLATED	10							
91	2	158552-61061	COVER, GOVERNOR CASE	1							
134	2	119653-77950	SOLENOID, STOP	1							



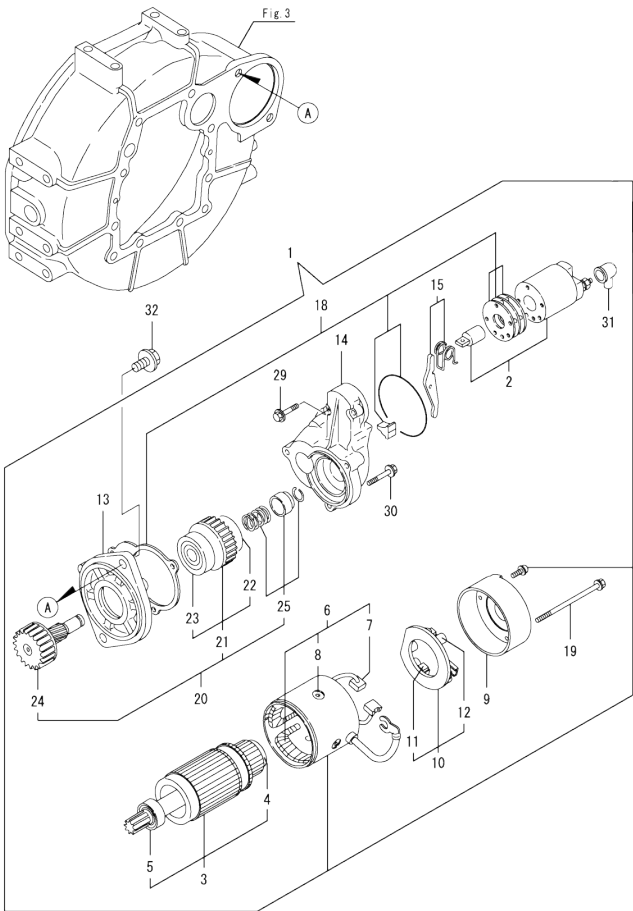
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	4							
2	2	114250-53080	NUT, NOZZLE D16.95	4							
8	2	114250-53120	SPRING, NOZZLE	4							
9	2	114250-53130	SEAT, SPRING	4							
10	2	114250-53140	PLATE	4							
11	2	114250-53210	PIN	8							
12	2	129604-53300	VALVE ASSY,INJECTION	4							
15	2	119803-53400	SHIM SET	4							
42	1	129150-59120	RETAINER, PIPE	1							
45	2	129150-59131	BOLT, M4X14	2							
46	1	129550-59120	RETAINER, PIPE	1							
49	2	129150-59131	BOLT, M4X14	2							
51	1	129601-59810	PIPE ASSY, INJECTION	1							
55	1	129601-59820	PIPE ASSY, INJECTION	1							
59	1	129601-59830	PIPE ASSY, INJECTION	1							
63	1	129601-59840	PIPE ASSY, INJECTION	1							
68	1	119802-59550	PIPE ASSY, RETURN	1							
69	2	124722-59050	CLIP, HOSE 9	2							
70	2	119802-59560	PIPE, FUEL RETURN	1							
71	1	129486-59551	PIPE ASSY, RETURN	3							
72	2	124722-59050	CLIP, HOSE 9	6							
74	1	119593-59581	CAP	1							
75	1	124060-77680	CLIP, HOSE 10	1							

Fig.14. FUEL LINE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	129907-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129630-59010	PIPE ASSY, FUEL	1							
5	2	124766-59050	CLIP, HOSE 12	2							
6	2	129961-59110	TUBE, CORRUGATED	1							
7	2	105025-59560	PIPE, FUEL	1							
8	1	129956-59010	PIPE ASSY, FUEL	1							
9	2	124766-59050	CLIP, HOSE 12	2							
10	2	129957-59101	TUBE, CORRUGATED	1							
11	2	105225-59511	PIPE, FUEL	1							
12	1	121750-59890	BAND, 140	1							
13	1	114110-07761	LABEL, FUEL OIL CAUT	1							
14	1	119225-52102	PUMP ASSY, FUEL FEED	1							
15	1	129242-55701	SEPARATOR ASSY	1							
16	2	129242-55720	CUP	1							
17	2	129242-55730	ELEMENT	1							
18	2	129242-55740	PLUG, DRAIN	1							
19	2	129242-55750	VALVE, AIR VENT	1							
20	2	129242-55760	GASKET	1							
21	2	129242-55770	FLOAT	1							
22	2	24311-000160	O-RING, 1AP16.0	1							
23	2	24321-000750	O-RING, 1AG75.0	1							

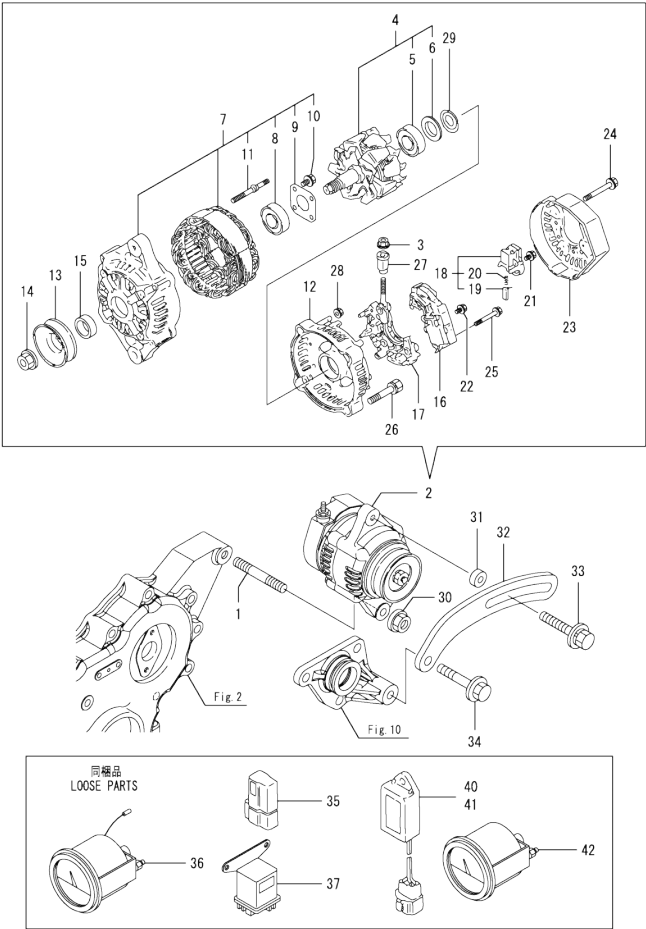
0CW10-M71800 4TNV88-BDDR
Fig.15. STARTING MOTOR



										0CW10-M71800 Fig.15	
										(A)=4TNV88-BDDR	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										(A)	(B)
										(C)	(D)
										(E)	(F)
										I	
										R	
No.	Lev.	Parts No.	Description								
1	1	129136-77011	STARTER							1	
2	2	129136-77310	SWITCH ASSY							1	
3	2	129900-77400	ARMATURE ASSY							1	
4	3	X2130350900	BALL BEARING							1	
5	3	X2114255110	BEARING, BALL							1	
6	2	129900-77440	COIL ASSY, FIELD							1	
7	3	129900-77450	BRUSH (+)							2	
8	3	171008-77450	SCREW							4	
9	2	129900-77460	COVER, REAR							1	
10	2	129900-77480	HOLDER ASSY, BRASH							1	
11	3	129900-77450	BRUSH (+)							2	
12	3	129400-77490	SPRING, BRUSH							4	
13	2	171008-77510	HOUSING ASSY, GEAR							1	
14	2	129136-77520	CENTER HOUSING							1	
15	2	171008-77540	LEVER SET, SHIFT							1	
18	2	129400-77571	COVER KIT, DUST							1	
19	2	129900-77640	BOLT, THROUGH							2	
20	2	171008-77650	PINION ASSY							1	
21	3	X2114555500	CLUTCH ASSY							1	
22	4	X2114955020	BALL BEARING							1	
23	4	X2240410100	BEARING, BALL							1	
24	3	171008-77660	SHAFT, PINION							1	
25	3	171008-77670	STOPPER SET, PINION							1	
29	2	26106-060322	BOLT, M6X 32 PLATED							2	
30	2	26106-060402	BOLT, M6X 40 PLATED							3	
31	2	171008-77750	COVER, M TERMINAL							1	
32	1	26106-120252	BOLT, M12X 25 PLATED							2	

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.16. GENERATOR

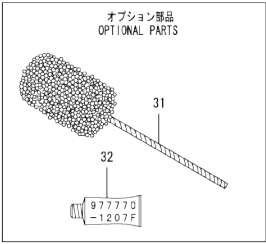
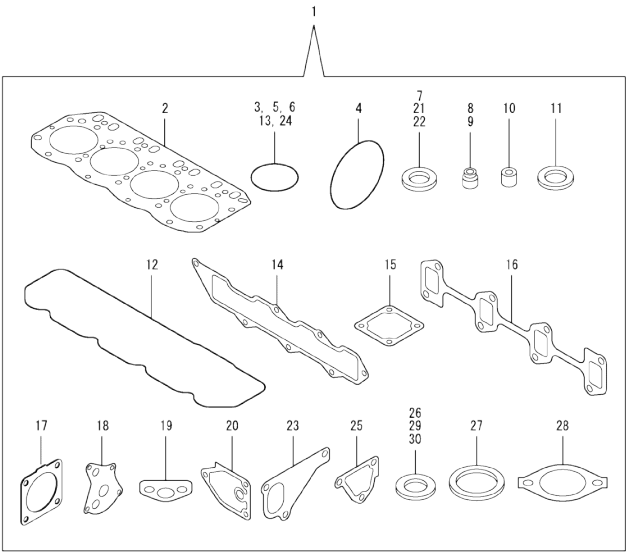


(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	STUD	1							
2	1	129423-77200	GENERATOR, 12V-40A	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-77421	FRAME ASSY, DRIVE	1							
8	3	119620-79200	BALL BEARING	1							
9	3	119620-79210	PLATE, RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	STUD	2							
12	2	119620-77440	FLAME ASSY, REAR	1							
13	2	119620-77461	PULLEY	1							
14	2	119620-77471	NUT	1							
15	2	119620-77490	COLLAR	1							
16	2	129423-77710	REGULATOR ASSY	1							
17	2	119620-79260	HOLDER	1							
18	2	129052-79270	HOLDER, BRUSH	1							
19	3	119620-77480	BRUSH ASSY	2							
20	3	119620-79280	SPRING	2							
21	2	119620-79290	SCREW	6							
22	2	119620-79300	SCREW	1							
23	2	129240-79300	COVER	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	BUSH, INSULATION	1							
28	2	119620-79350	NUT	2							
29	2	119620-79360	WASHER, THRUST	1							
30	1	26306-100002	NUT, M10	1							
31	1	119940-77270	SPACER, GENERATOR	1							
32	1	119802-77330	ADJUSTER	1							
33	1	129972-77341	BOLT, ADJUSTER L=50	1							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	119643-66900	DIODE	1							
36	1	171010-77850	THERMOSTAT	1							
37	1	119650-77911	RELAY ASSY, GLOW	1							
40	1	128300-77920	TIMER	1							
41	1	129211-77920	TIMER	1							
42	1	171090-91011	GAUGE	1							

Fig.17. GASKET SET



Remarks
(1)Optional parts.

(A)=4TNV88-BDDR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-92650	GASKET SET	1							1
2	2	129407-01340	GASKET, HEAD	1							
3	2	119609-32040	O-RING, P16	2							
4	2	121850-51960	O-RING	1							
5	2	24311-000320	O-RING, 1AP32.0	3							
6	2	24341-000240	O-RING, 1AS24.0	1							
7	2	22190-220002	WASHER, SEAL 22	1							
8	2	121400-11340	SEAL, VALVE STEM	4							
9	2	124460-11340	SEAL, VALVE STEM	4							
10	2	119802-11870	PROTECTOR, NOZZLE	4							
11	2	119625-11880	SEAT, NOZZLE	4							
12	2	129601-11310	GASKET, BONNET	1							
13	2	24311-000120	O-RING, 1AP12.0	3							
14	2	129407-12110	GASKET, MANIFOLD	1							
15	2	129150-77511	GASKET	1							
16	2	129550-13110	GASKET	1							
17	2	129930-13201	GASKET, SILENCER	1							
18	2	129150-32020	GASKET, PUMP	1							
19	2	129150-35042	GASKET	1							
20	2	129150-35111	GASKET	1							
21	2	22190-080002	WASHER, SEAL 6	2							
22	2	22190-100002	WASHER, SEAL 10	2							
23	2	129486-42021	GASKET, WATER PUMP	1							
24	2	129486-42140	O-RING, G30	1							
25	2	124395-49840	GASKET	1							
26	2	23414-080000	GASKET, 8X1.0	1							
27	2	129150-49811	GASKET, THERMOSTAT	1							
28	2	129795-49551	GASKET	1							
29	2	124465-44950	GASKET, 16	2							
30	2	129150-49360	GASKET	1							
31	1	129400-92430	HONE	1							1
32	1	977770-1207F	GASKET,LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	14	7
105225-59511	14	11
114110-07761	14	13
114250-39450	9	52
114250-53080	13	2
114250-53120	13	8
114250-53130	13	9
114250-53140	13	10
114250-53210	13	11
119005-12571	5	14
119131-18320	6	5
119225-52102	14	14
119260-34810	9	17
119593-59581	13	74
119609-32040	2	9
	17	3
119620-01750	3	3
119620-77380	16	4
119620-77421	16	7
119620-77440	16	12
119620-77461	16	13
119620-77471	16	14
119620-77480	16	19
119620-77490	16	15
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79260	16	17
119620-79280	16	20
119620-79290	16	21
119620-79300	16	22
119620-79310	16	24
119620-79320	16	25
119620-79330	16	26
119620-79340	16	27
119620-79350	16	28
119620-79360	16	29
119625-11880	4	29
	17	11
119640-01640	3	8
119643-66900	16	35
119650-77911	16	37
119653-77950	12	134
119660-61901	12	61
119773-91501	9	54
119802-01561	2	5
119802-03110	4	40
119802-03121	4	41

Parts No.	Fig. No.	Ref. No.
119802-03130	4	42
119802-03141	4	43
119802-11260	4	4
119802-11270	4	5
119802-11870	4	28
	17	10
119802-21660	8	8
119802-25071	7	16
119802-25101	7	10
119802-25901	7	15
119802-34850	9	18
119802-39450	9	45
119802-49113	10	9
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	68
119802-59560	13	70
119802-77330	16	32
119803-01520	2	4
119803-21200	8	4
119803-25050	7	9
119803-53400	13	15
119807-61420	12	24
119808-12540	5	12
119865-21600	8	14
119934-01800	2	3
119934-59910	11	130
119940-59130	9	40
119940-77270	16	31
120130-11860	4	55
120270-54410	4	31
121023-01551	2	19
121111-21501	8	11
121250-44901	10	34
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