

0CD11-M13700EN

P R E F A C E

1. This parts catalog is the 1st edition of 2TNV70-NMBA for MAEDA SEISAKUSHO CO.,LTD.

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Published : October, 2010

2. Model name

Engine model	Vehicle	Vehicle made by
2TNV70-NMBA	CRAWLER CRANE	MAEDA SEISAKUSHO CO.,LTD.

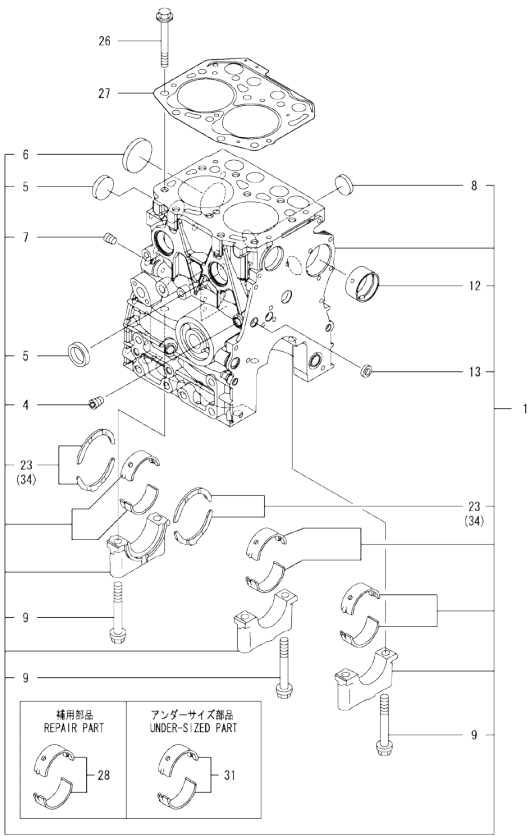
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Fig.1. CYLINDER BLOCK



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

0CD11-M13700 Fig.1

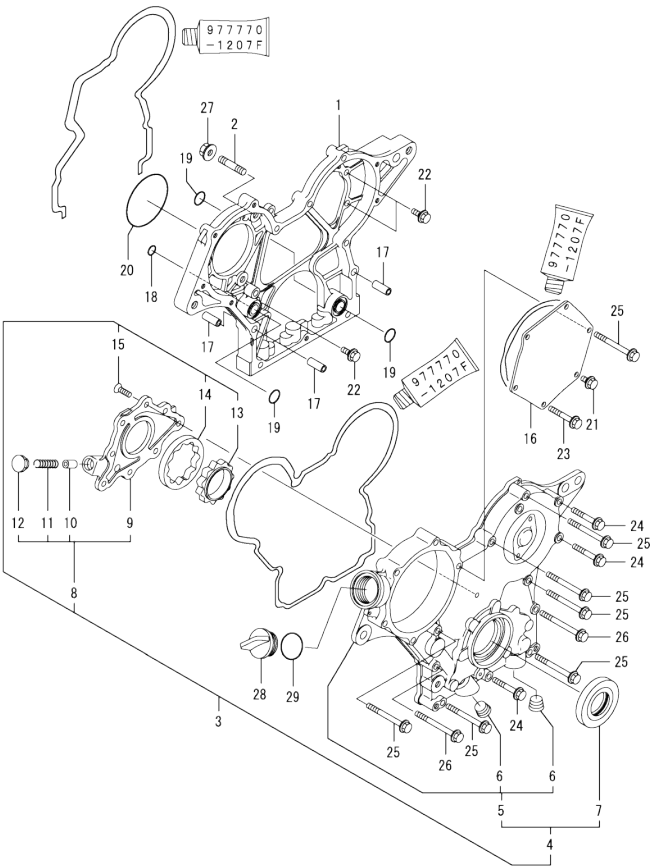
(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-01561	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	105311-01090	PLUG, 30	3							
6	2	119623-01250	PLUG, 45	1							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	119285-01990	PLUG, 25	2							
9	2	119620-02020	BOLT, METAL CAP	6							
12	2	119717-02411	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	1							
23	2	119717-02930	BEARING, THRUST	2							
26	1	119515-01200	BOLT, HEAD	10							
27	1	119415-01330	GASKET, HEAD	1							
28	1	719717-02901	BEARING, MAIN	3							1
31	1	719717-02911	BEARING, 0.25 US	3							2
34	1	119810-02941	BEARING, THRUST 0.25	2							3

0CD11-M13700 2TNV70-NMBA

Fig.2. GEAR HOUSING



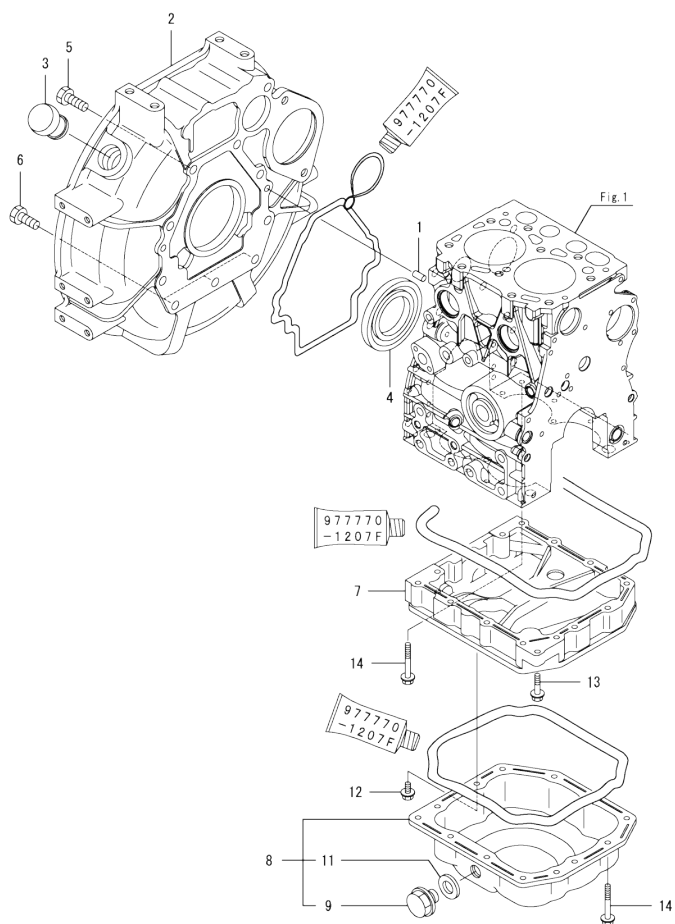
0CD11-M13700 Fig.2

(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	STUD	3							
3	1	119734-01590	COVER ASSY,GEAR CASE	1							
4	2	719734-01500	COVER ASSY,GEAR CASE	1							
5	3	119717-01521	COVER, GEAR CASE	1							
6	4	23876-030000	PLUG, R03	2							
7	3	119717-01800	SEAL, OIL	1							
8	2	119717-32100	COVER ASSY	1							
9	3	119717-32080	COVER	1							
10	3	129900-32130	VALVE, RELIEF	1							
11	3	129001-32320	SPRING	1							
12	3	129001-32330	PLUG	1							
13	2	119717-32110	ROTOR, INNER	1							
14	2	119717-32120	ROTOR, OUTER	1							
15	2	119802-32130	SCREW, M6X16	8							
16	1	119717-01750	COVER	1							
17	1	119660-01911	PIPE, KNOCK	4							
18	1	119624-32040	O-RING, P12.0	1							
19	1	119717-32050	O-RING, P17.0	3							
20	1	121850-51960	O-RING	1							
21	1	26106-060122	BOLT, M6X 12 PLATED	1							
22	1	26106-060162	BOLT, M6X 16 PLATED	4							
23	1	26106-060402	BOLT, M6X 40 PLATED	4							
24	1	26106-060402	BOLT, M6X 40 PLATED	3							
25	1	26106-060602	BOLT, M6X 60 PLATED	7							
26	1	26106-060652	BOLT, M6X 65 PLATED	2							
27	1	26306-080002	NUT, M8	3							
28	1	124160-01751	COVER, FILLER	1							
29	1	24311-000320	O-RING, 1AP32.0	1							

Fig.3. FLYWHEEL HOUSING & OIL SUMP



(A)=2TNV70-NMBA
(B)=
(C)=

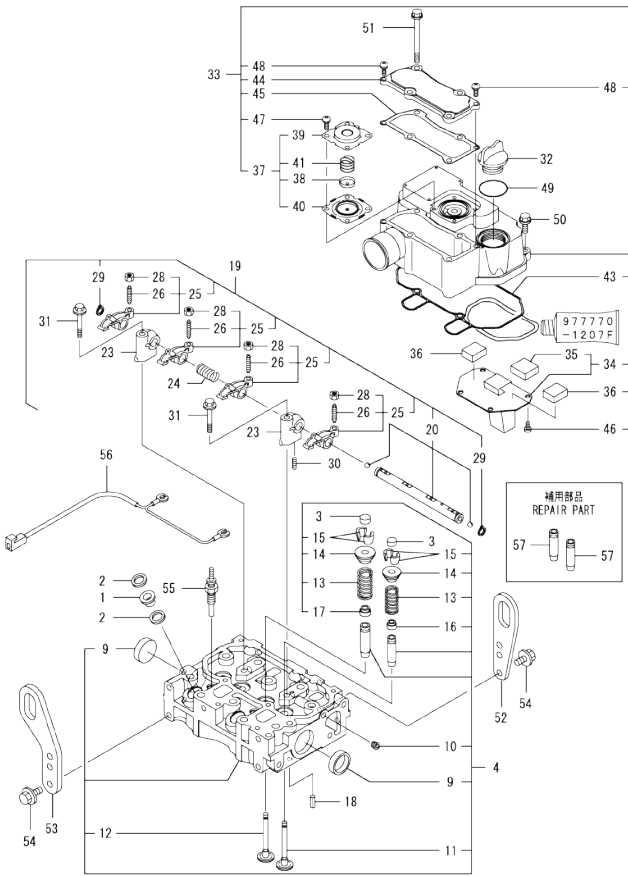
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	119515-01601	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	124085-02220	SEAL, OIL	1							
5	1	26206-100252	BOLT, M10X 25 PLATED	7							
6	1	26206-100302	BOLT, M10X 30 PLATED	3							
7	1	119415-01720	SPACER, OIL SUMP	1							
8	1	119446-01770	SUMP ASSY, OIL	1							
9	2	105425-01690	PLUG, 16	1							
11	2	22190-160002	WASHER, SEAL 16	1							
12	1	26106-060122	BOLT, M6X 12 PLATED	1							
13	1	26106-060252	BOLT, M6X 25 PLATED	1							
14	1	26106-060452	BOLT, M6X 45 PLATED	13							

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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OCD11-M13700 2TNV70-NMBA

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Repair part.

OCD11-M13700 Fig.4

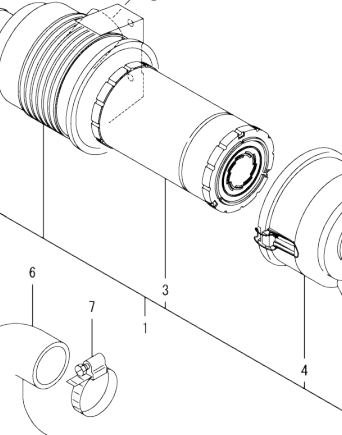
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129901-11450	PROTECTOR, NOZZLE	2							
2	1	119600-11460	GASKET, NOZZLE	4							
3	1	105010-11490	CAP, VALVE	4							
4	1	119415-11740	HEAD ASSY, CYLINDER	1							
9	2	119285-11990	PLUG, 35	2							
10	2	23876-005000	PLUG, R005	1							
11	2	119515-11101	VALVE, INTAKE	2							
12	2	119515-11110	VALVE, EXHAUST	2							
13	2	119717-11131	SPRING, VALVE	4							
14	2	129508-11180	RETAINER, SPRING	4							
15	2	119717-11190	COTTER	8							
16	2	119717-11340	SEAL, VALVE STEM	2							
17	2	119717-11350	SEAL, VALVE STEM	2							
18	1	22351-060012	PIN, SPRING 6.0X12	2							
19	1	119415-11200	SUPPORT ASSY, ARM	1							
20	2	119415-11240	SHAFT ASSY, ROCKER	1							
23	2	119717-11260	SUPPORT, ROCKER ARM	2							
24	2	119515-11280	SPRING	1							
25	2	119717-11650	ARM, ROCKER	4							
26	3	129150-11230	SCREW, VALVE ADJUST	4							
28	3	129150-11750	NUT, M8	4							
29	2	22242-000120	RING, 12	2							
30	2	26979-050162	SCREW, M5X16	1							
31	1	26106-080402	BOLT, M8X 40 PLATED	2							
32	1	124160-01751	COVER, FILLER	1							
33	1	119415-11380	BONNET ASSY, HEAD	1							
34	2	119717-03031	PLATE	1							
35	3	119717-03070	BAFFLE, BREATHER	1							
36	2	119717-03070	BAFFLE, BREATHER	2							
37	2	119802-03100	DIAPHRAGM ASSY	1							
38	3	119802-03110	PLATE	1							
39	3	119802-03121	COVER, DIAPHRAGM	1							
40	3	119802-03131	DIAPHRAGM	1							
41	3	119802-03141	SPRING, DIAPHRAGM	1							
43	2	119415-11310	GASKET, BONNET	1							
44	2	119415-11320	COVER, BONNET	1							
45	2	119415-11330	GASKET	1							
46	2	22857-500100	SCREW, 5X10	4							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500160	SCREW, 5X16	2							
49	1	24311-000320	O-RING, 1AP32.0	1							
50	1	26106-060202	BOLT, M6X 20 PLATED	2							
51	1	26106-060752	BOLT, M6X 75 PLATED	4							
52	1	119226-07900	LIFTER	1							
53	1	129486-07901	LIFTER	1							
54	1	26106-080142	BOLT, M8X 14 PLATED	4							
55	1	119717-77800	PLUG, GLOW	2							
56	1	119415-77820	CONNECTOR, GLOW PLUG	1							
57	1	119515-11800	GUIDE, VALVE	4							

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.5. AIR CLEANER



This exploded view diagram illustrates the assembly of the 1000 Series 1/2" component. The main assembly consists of a threaded body (1) with a cap (5) and a plug (3). A separate component (2) is shown with a plug (4) and a cap (6). A separate component (7) is also shown. The diagram includes numbered callouts 1 through 7, corresponding to the parts listed in the table below.

Part Number	Description
1	1000 Series 1/2"
2	1000 Series 1/2"
3	1000 Series 1/2"
4	1000 Series 1/2"
5	1000 Series 1/2"
6	1000 Series 1/2"
7	1000 Series 1/2"

(D)=
(E)=

(D)=
(E)=

(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119440-12520	CLEANER ASSY, AIR	1							
2	2	119808-12540	VALVE, UNLOADER	1							
3	2	119655-12560	ELEMENT	1							
4	2	119655-12570	COVER ASSY	1							
5	2	105027-12580	RING	1							
6	1	119631-12650	PIPE, AIR INTAKE	1							
7	1	23000-060000	CLAMP, 60	4							

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.6. EXHAUST MANIFOLD & SILENCER



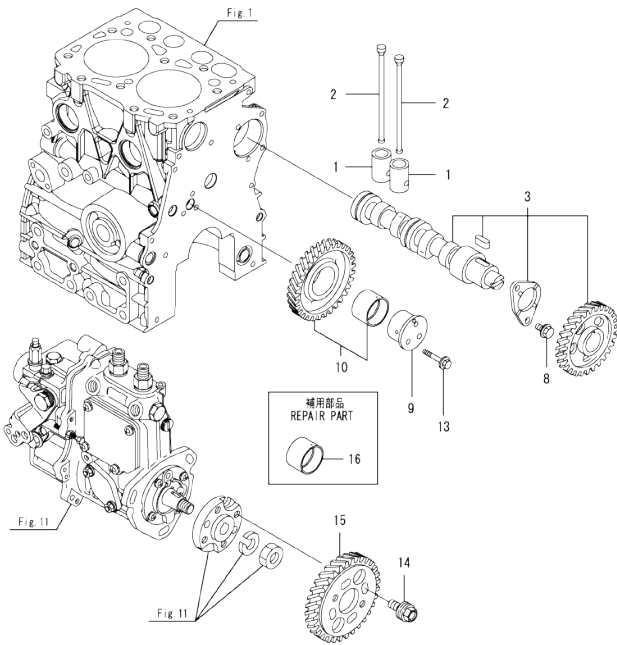
(D)=
(E)=
(F)=

(A)=2TNV70-NMBA
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119415-13100	MANIFOLD, EXHAUST	1							
2	1	119415-13110	GASKET	1							
3	1	119717-13600	STUD, M8X50	2							
4	1	119802-13620	BOLT, M8X50	2							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	121000-13201	GASKET, SILENCER	2							
8	1	119325-13500	SILENCER	1							

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.7. CAMSHAFT & DRIVING GEAR



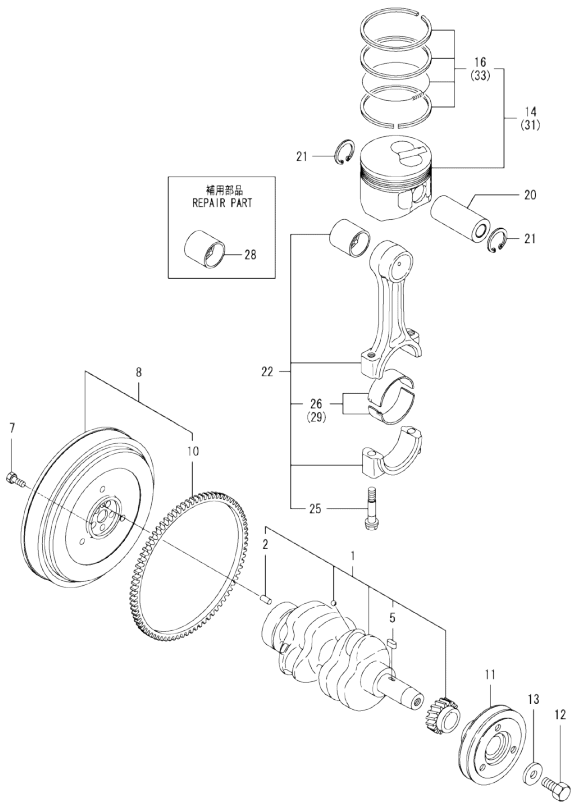
Remarks
(1)Repair part.

(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	4							
2	1	119515-14400	ROD, PUSH	4							
3	1	119415-14581	CAMSHAFT ASSY	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE	1							
10	1	119717-25101	GEAR ASSY, IDLE	1							
13	1	26106-060352	BOLT, M6X 35 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119717-25930	GEAR, PUMP	1							
16	1	119717-25911	BUSH, IDLE GEAR	1							1

Fig.8. CRANKSHAFT & PISTON

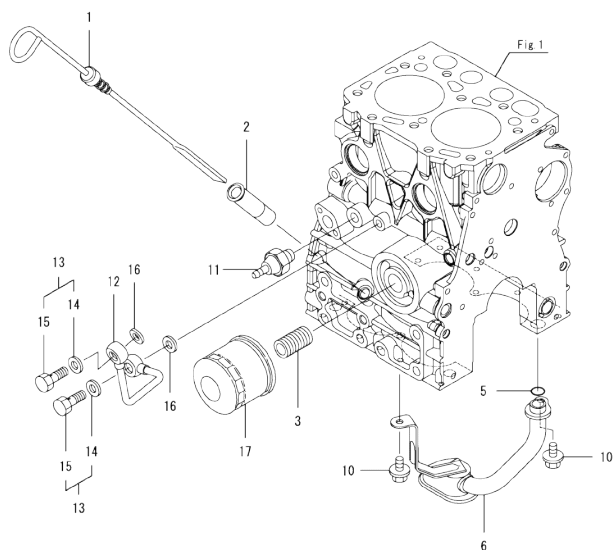


Remarks
(1)Repair part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

OCD11-M13700 Fig.8
(A)=2TNV70-NMBA
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119415-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
5	2	22512-040120	KEY, 4X 12	1							
7	1	119620-21500	BOLT, FLYWHEEL	5							
8	1	119515-21570	FLYWHEEL ASSY	1							
10	2	124950-21600	GEAR, RING	1							
11	1	119717-21650	V-PULLEY	1							
12	1	119621-21681	BOLT, FLANGE 12X1.25	1							
13	1	119620-21941	WASHER	1							
14	1	119515-22080	PISTON ASSY	2							
16	2	119515-22500	RING SET, PISTON	2							
20	1	119515-22300	PIN, PISTON	2							
21	1	22252-000220	RING, 22	4							
22	1	119515-23000	ROD ASSY, CONNECTING	2							
25	2	119717-23200	BOLT, CONNECTING ROD	4							
26	2	119515-23601	BEARING, CRANK PIN	2							1
28	1	119717-23910	BEARING, PISTON PIN	2							
29	1	119515-23611	METAL ASSY, 0.25	2							2
31	1	119515-22900	PISTON ASSY, 0.25 OS	2							3
33	2	119515-22550	RING SET, 0.25 OS	2							3

Fig.9. LUB. OIL SYSTEM



Remarks
(1)Repair part.

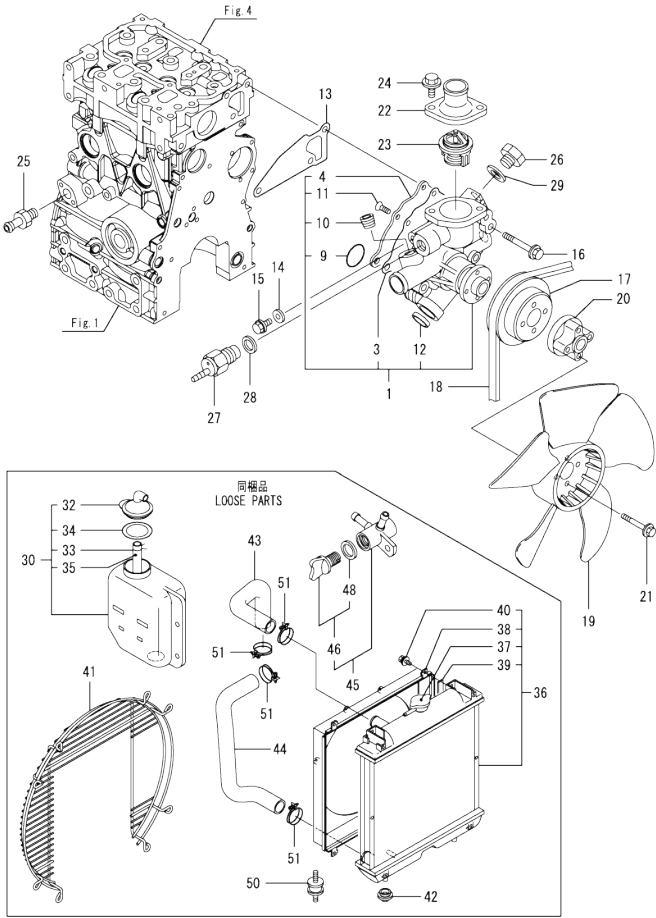
(D)=
(E)=
(F)=

(A)=2TNV70-NMBA
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119446-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	119717-35140	BOLT	1							
5	1	119717-32060	O-RING, P15.0	1							
6	1	119446-35080	PIPE ASSY, OIL INLET	1							
10	1	26106-060102	BOLT, M6X 10 PLATED	2							
11	1	114250-39450	SWITCH, 0.5KG	1							
12	1	119415-39211	PIPE, OIL	1							
13	1	129005-59830	BOLT ASSY, JOINT M8	2							
14	2	22190-080002	WASHER, SEAL 6	2							
15	2	23857-030000	BOLT, JOINT 3	2							
16	1	22190-080002	WASHER, SEAL 6	2							
17	1	119305-35151	FILTER ASSY, D68XL65	1							

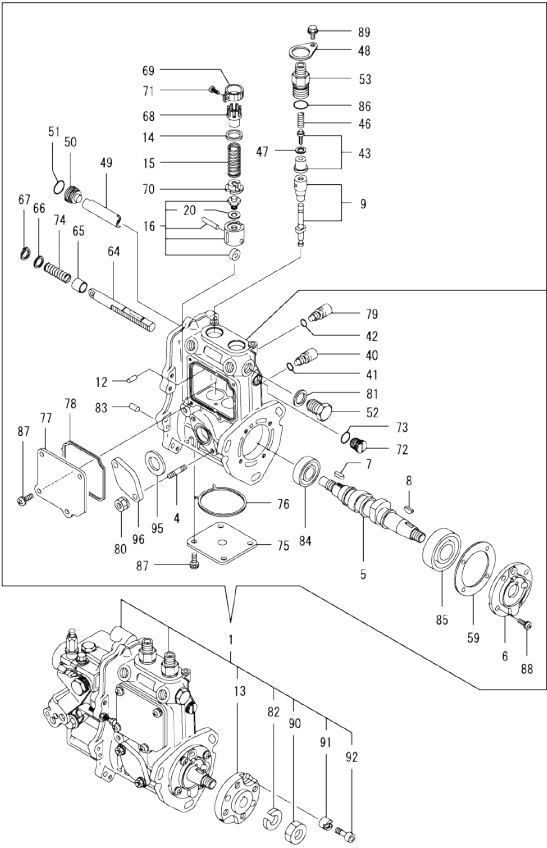
N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.10. COOLING WATER SYSTEM



										OCD11-M13700 Fig.10	
										(A)=2TNV70-NMBA (B)= (C)=	
										(D)= (E)= (F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-42000	PUMP ASSY, WATER	1							
1-1	1	119C10-42000	PUMP ASSY, WATER	1						N	
(A=E/ C0711)											
1-2	1	119C10-42001	PUMP ASSY, CW	1						N	
(A=EE5072)											
3	2	119717-42031	GASKET, WATER PUMP	1							
4	2	119515-42041	COVER, WATER PUMP	1							
9	2	119717-42320	O-RING, P26	1							
9-1	2	119C10-42320	O-RING, 2028	1						S	
(A=E/ C0711)											
10	2	129916-49740	PLUG, R3/8	1							
11	2	26577-060122	SCREW, M6X12	4							
12	2	27241-250000	PLUG, 25	1							
12-1	2	119717-42050	PLUG, 25	1						N	
(A=EE5072)											
13	1	119515-42020	GASKET, WATER PUMP	1							
14	1	23414-080000	GASKET, 8X1.0	1							
15	1	26106-080122	BOLT, M8X 12 PLATED	1							
16	1	26106-080502	BOLT, M8X 50 PLATED	3							
17	1	119740-42350	V-PULLEY, PUMP D=90	1							
18	1	121522-42290	V-BELT, A34.5	1							
19	1	119325-44700	FAN, COOLING D=270	1							
20	1	129457-44760	SPACER, FAN	1							
21	1	26106-060452	BOLT, M6X 45 PLATED	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	119717-49800	THERMOSTAT, 71C	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	2							
25	1	121550-49111	JOINT, PT1/4	1							
26	1	121450-42450	PLUG, M16	1							
27	1	121250-44901	SWITCH, TEMPERATURE	1							
28	1	124465-44950	GASKET, 16	1							
29	1	124465-44950	GASKET, 16	1							
30	1	121468-44520	TANK ASSY, SUB	1							
32	2	121450-44531	CAP	1							
33	2	124450-44560	CLAMP, PIPE	1							
34	2	121470-44581	GASKET	1							
35	2	23065-070130	PIPE, 7X 130	1							
36	1	119515-44540	RADIATOR ASSY	1							
37	2	129107-44590	CAP, RADIATOR	1							
38	2	119415-44600	SHROUD	1							
39	2	119515-44610	GASKET	2							
40	2	26014-060122	BOLT, M6X 12	4							
41	1	119802-44570	GUARD, FAN	1							
42	1	119255-44660	RUBBER, RADIATOR	2							
43	1	119802-49010	HOSE, WATER A	1							
44	1	119940-49020	PIPE, WATER B	1							
45	1	129150-49100	COCK ASSY, 3-WAY	1							
46	2	129150-49080	COCK, DRAIN	1							
48	3	119629-49080	GASKET	1							
50	1	127694-91050	RUBBER, CUSHION	2							
51	1	23010-038000	CLAMP, 38	4							

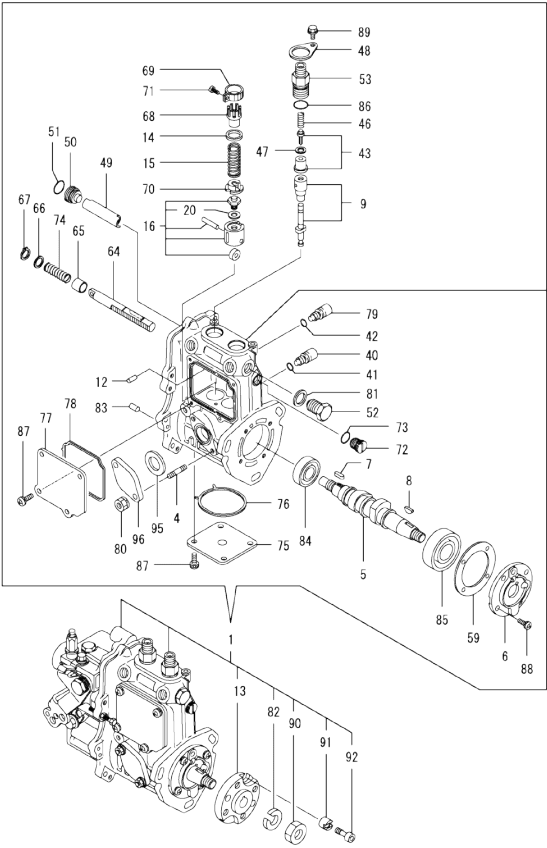
Fig.11. FUEL INJECTION PUMP



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719440-51460	FIE ASSY(2TNV70-NMBA	1							1
4	2	129155-51020	STUD	2							
5	2	119415-51030	CAMSHAFT	1							
6	2	119717-51060	SUPPORT, CAMSHAFT	1							
7	2	119717-51070	KEY	1							
8	2	122710-51090	KEY	1							
9	2	119515-51100	PLUNGER ASSY	2							
12	2	129155-51140	PIN	2							
13	2	119717-51150	FLANGE	1							
14	2	158600-51170	RETAINER, SPRING	2							
15	2	119717-51190	SPRING, PLUNGER	2							
16	2	119717-51200	TAPPET ASSY	2							
20	3	129155-51600	SHIM SET, ADJUSTING	2							
40	2	158600-51270	STOPPER, TAPPET	2							
41	2	129155-51280	O-RING, S6	2							
42	2	129155-51280	O-RING, S6	1							
43	2	119717-51300	VALVE ASSY, DELIVERY	2							
46	2	119717-51330	SPRING, DELIVERY	2							
47	2	124550-51350	GASKET, DELIVERY	2							
48	2	119125-51370	HOLDER	2							
49	2	119415-51400	PROTECTOR	1							
50	2	158600-51410	PLUG, DEFLECTOR	1							
51	2	119717-51420	O-RING	1							
52	2	158600-51420	PLUG, DEFLECTOR	1							
53	2	158600-51442	VALVE ASSY, DELIVERY	2							
59	2	129155-51450	SHIM SET, ADJUSTING	1							
64	2	119415-51500	RACK, CONTROL	1							
65	2	129155-51521	BUSH, RACK	1							
66	2	129155-51530	SPACER	1							
67	2	129155-51540	CIRCLIP	1							
68	2	129155-51550	PINION, CONTROL	2							
69	2	129100-51560	PINION	2							
70	2	119717-51570	RETAINER, SPRING	2							
71	2	129100-51570	SCREW	2							
72	2	158600-51570	PLUG	1							
73	2	129155-51580	O-RING	1							
74	2	129155-51591	SPRING, RACK	1							
75	2	119415-51700	COVER	1							
76	2	119415-51710	GASKET	1							
77	2	119415-51750	COVER	1							
78	2	119415-51760	GASKET	1							
79	2	158600-51790	STOOPER, RACK	1							
80	2	119717-51860	NUT, M6	2							
81	2	22190-160002	WASHER, SEAL 16	1							
82	2	22217-120000	WASHER, SPRING 12	1							
83	2	22351-050010	PIN, SPRING 5.0X10	2							
84	2	24101-060034	BEARING, BALL 6003	1							
85	2	24101-063034	BEARING, BALL 6303	1							
86	2	24316-000150	O-RING, 4DP15.0	2							
87	2	26022-050122	SCREW, M5X12	8							
88	2	26022-060162	SCREW, M6X16	4							

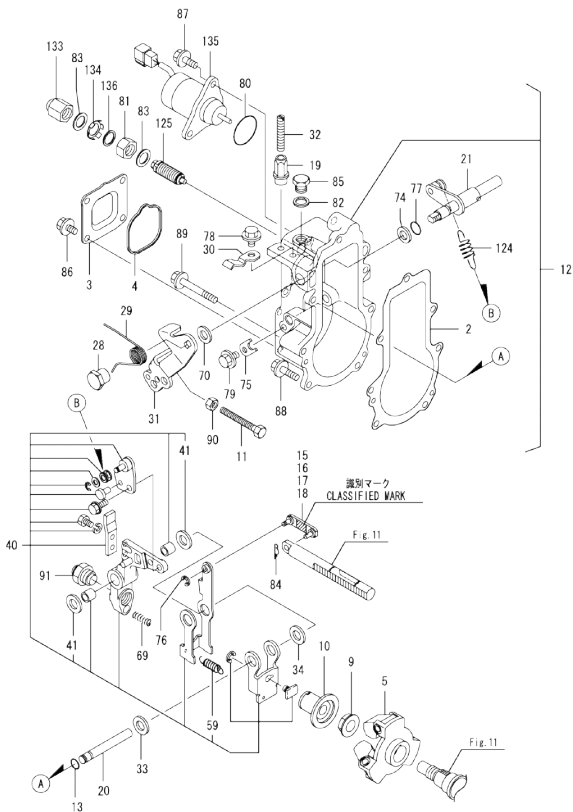
Fig.11. FUEL INJECTION PUMP



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
89	2	26106-050102	BOLT, M5X 10 PLATED	2							
90	2	26716-120002	NUT, M12	1							
91	2	119717-51480	COLLAR	1							
92	2	119717-51490	BOLT	1							
95	2	129155-52051	GASKET	1							
96	2	129100-52200	COVER	1							

Fig.12. GOVERNOR



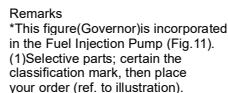
Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.11).
(1)Selective parts; certain the
classification mark, then place
your order (ref. to illustration).

(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-61050	GASKET	1							
3	2	119717-61060	COVER, GOVERNOR CASE	1							
4	2	119717-61070	GASKET	1							
5	2	119717-61201	WEIGHT ASSY, GOVERNOR	1							
9	2	129008-61301	NUT	1							
10	2	129155-61341	SLEEVE	1							
11	2	129155-61460	BOLT, IDLE	1							
12	2	119440-61700	CASE ASSY, GOVERNOR	1							
13	3	129155-51280	O-RING, S6	1							
15	3	119717-61120	LINK, MARK :3	1							1
16	3	119717-61130	LINK, MARK 98	1							1
17	3	119717-61140	LINK, MARK 88	1							1
18	3	119717-61150	LINK, MARK 03	1							1
19	3	129209-61370	NUT, M6	1							
20	3	129052-61390	SHAFT	1							
21	3	119717-61400	SHAFT ASSY	1							
28	3	129255-61410	NUT, LOCK	1							
29	3	119534-61420	SPRING	1							
30	3	119534-61430	RETAINER	1							
31	3	119718-61441	LEVER, CONTROL	1							
32	3	129155-61450	BOLT, LIMITER	1							
33	3	129156-61460	SHIM, T=0.6	1							
34	3	129155-61480	SPACER ASSY	1							
40	3	119717-61500	LEVER ASSY, GOVERNOR	1							
41	4	174307-51700	SHIM SET	2							
59	4	129486-61540	SPRING, SET	1							
69	3	129486-61650	SPRING, STARTING	1							
70	3	158552-61700	SHIM SET	1							
74	3	158552-61710	SHIM, T=1.0	1							
75	3	119660-61901	RETAINER, SHAFT	1							
76	3	22272-000030	RING, E- 3	1							
77	3	24341-000070	O-RING, 1AS7.0	1							
78	3	26106-060102	BOLT, M6X 10 PLATED	1							
79	3	26106-060102	BOLT, M6X 10 PLATED	1							
80	2	158552-61900	O-RING	1							
81	2	129209-61920	NUT, ARB	1							
82	2	22190-100002	WASHER, SEAL 10	1							
83	2	22190-120002	WASHER, SEAL 12	2							
84	2	22372-040000	PIN, SNAP 4	1							
85	2	23887-100002	PLUG, 10	1							
86	2	26106-060102	BOLT, M6X 10 PLATED	4							
87	2	26106-060142	BOLT, M6X 14 PLATED	2							
88	2	26106-060202	BOLT, M6X 20 PLATED	4							
89	2	26106-060452	BOLT, M6X 45 PLATED	3							
90	2	26756-060002	NUT, LOCK M6	1							
91	2	119717-61550	ANGLEICH ASSY	1							
124	2	119718-61700	SPRING, GOVERNOR	1							
125	2	158601-61710	LIMITER ASSY, FUEL	1							
133	2	129209-61930	NUT, CAP	1							
134	2	129209-61970	PLATE	1							
135	2	119233-77932	SOLENOID, STOP	1							

Fig.12. GOVERNOR



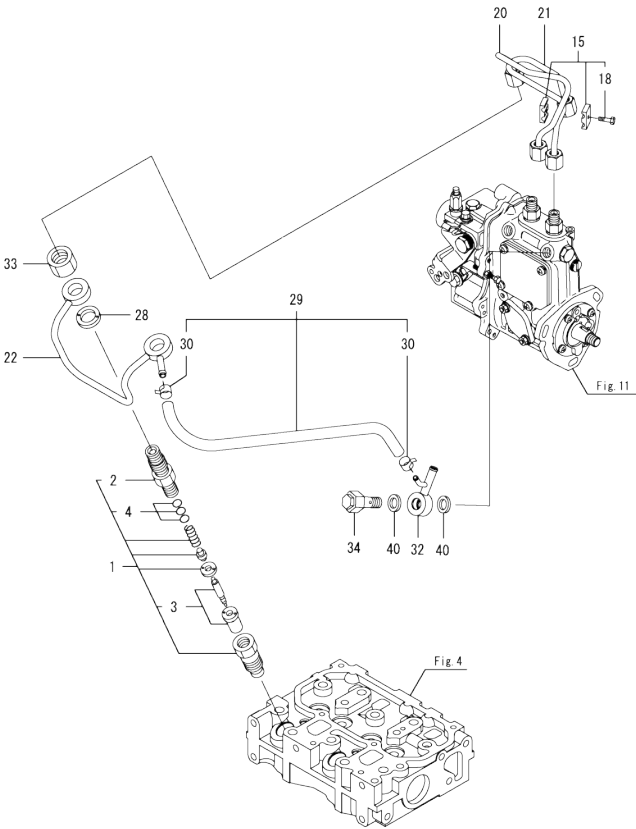
(A)=2TNV70-NMBA
(B)=
(C)=

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

 $Q^{\#}$ [illegible]

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.13. FUEL INJECTION VALVE

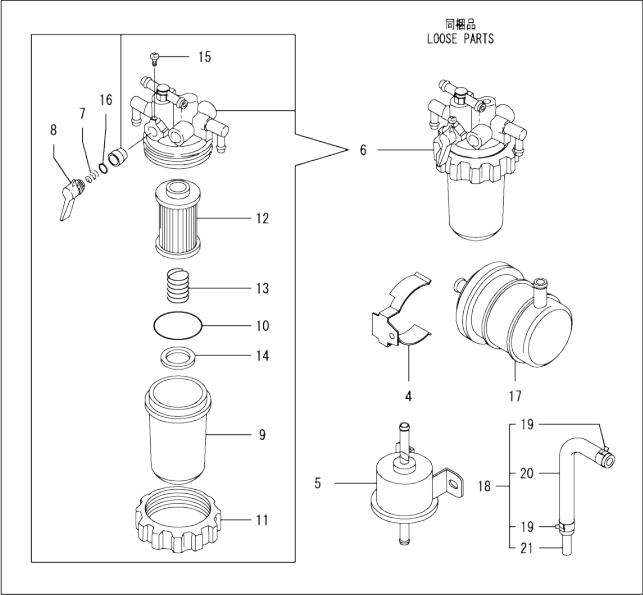
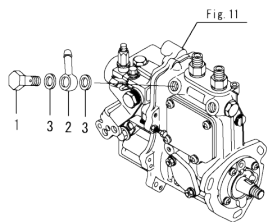


(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	2							
2	2	118200-53010	HOLDER, NOZZLE	2							
3	2	119515-53010	VALVE ASSY,INJECTION	2							
4	2	129901-53800	SHIM SET, ADJUSTING	2							
15	1	119305-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	1							
20	1	119415-59810	PIPE ASSY, INJECTION	1							
21	1	119415-59820	PIPE ASSY, INJECTION	1							
22	1	119415-59540	PIPE ASSY, RETURN	1							
28	1	129901-59560	GASKET	2							
29	1	119540-59570	PIPE ASSY, RETURN	1							
30	2	124066-59100	CLIP, HOSE 8	2							
32	1	119840-59570	JOINT	1							
33	1	119620-59700	NUT, NOZZLE	2							
34	1	119813-59950	VALVE ASSY, CHECK	1							
40	1	22190-120002	WASHER, SEAL 12	2							

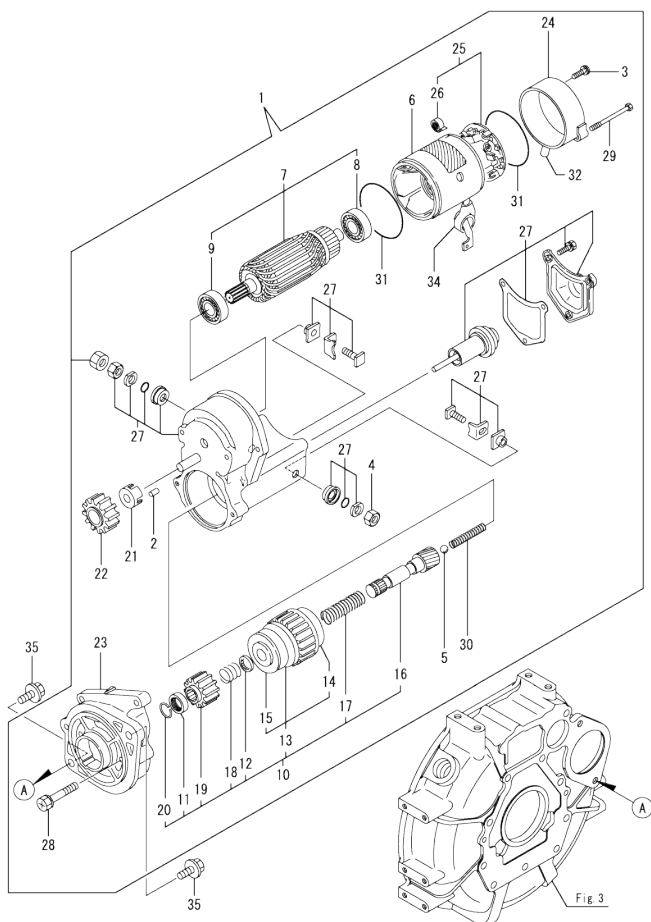
Fig.14. FUEL FILTER



(A)=2TNV70-NMBA
(B)=
(C)=

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

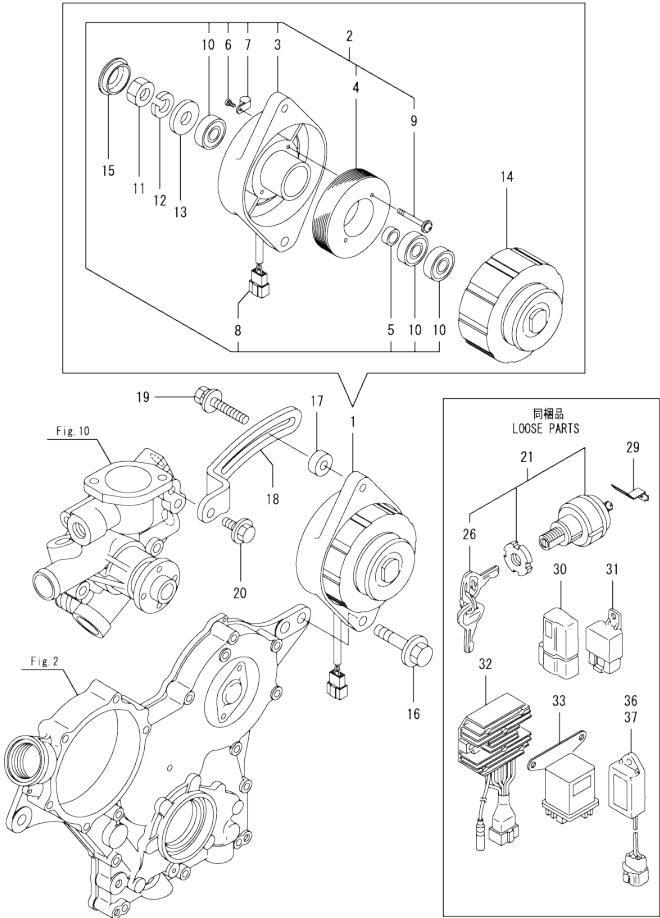
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	103854-39140	BOLT, PIPE JOINT	1							
2	1	101304-59020	JOINT, PIPE 12	1							
3	1	22190-120002	WASHER, SEAL 12	2							
4	1	198072-04320	CLAMP, FILTER	1							
5	1	119225-52102	PUMP, FUEL FEED	1							
6	1	129053-55620	FILTER ASSY, FUEL	1							
6-1	1	129053-55621	FILTER ASSY, FUEL	1							N
(A=ED1965)											
6-2	1	129053-55622	FILTER ASSY, FUEL	1							N
(A=EE3708)											
7	2	104200-55330	SPRING, FUEL VALVE	1							
8	2	119810-55340	LEVER, FUEL	1							
9	2	129107-55510	CUP, STRAINER	1							
10	2	102103-55520	O-RING, FILTER	1							
10-1	2	129053-55520	O-RING, P44	1							N
(A=EE3708)											
11	2	110250-55610	RING, CUP RETAINING	1							
12	2	119810-55650	ELEMENT, FUEL FILTER	1							
12-1	2	129053-55670	ELEMENT, FO FILTER	1							N
(A=EE3708)											
13	2	121257-55720	SPRING, ELEMENT	1							
14	2	121257-55731	FLOAT	1							
15	2	104200-55750	SCREW, M4	1							
16	2	24311-240100	O-RING, 1AP10A	1							
16-1	2	129053-55510	O-RING, P10A	1							N
(A=EE3708)											
17	1	129052-55630	FILTER, FUEL INLET	1							
18	1	119840-59601	BEND, FUEL RETURN	1							
19	2	124766-59050	CLAMP, HOSE 11.5	2							
20	2	119840-59611	BEND, FUEL RETURN	1							
21	2	119840-59621	JOINT	1							



0CD11-M13700 Fig.15

No.	Lev.	Parts No.	Description	(A)=2TNV70-NMBA (D)= (B)= (E)= (C)= (F)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-77020	STARTER	1							
2	2	X0283060061	ROLLER	5							
3	2	129129-77460	SCREW	2							
4	2	X9490561370	NUT	1							
5	2	X9491200240	BALL	1							
6	2	129407-77210	YOKE ASSY	1							
7	2	129407-77220	ARMATURE ASSY	1							
8	3	129129-77230	BEARING	1							
9	3	129129-77240	BEARING	1							
10	2	X1280996680	STARTER KIT	1							
11	3	X0280210230	NUT	1							
12	3	X0283270140	RETAINER	1							
13	3	129129-77390	CLUTCH ASSY	1							
14	4	129129-77440	BEARING, BALL	1							
15	4	129129-77450	BEARING, BALL	1							
16	3	129129-77400	SHAFT	1							
17	3	129129-77410	SPRING, COIL	1							
18	3	129407-77410	SPRING	1							
19	3	X0283712350	PINION, STARTER	1							
20	3	129129-77430	RING	1							
21	2	129129-77260	RETAINER	1							
22	2	129129-77270	PINION	1							
23	2	X4284003310	HOUSING	1							
24	2	129407-77290	FRAME	1							
25	2	129407-77300	HOLDER ASSY	1							
26	3	X9491730461	SPRING	4							
27	2	X1534004151	SWITCH ASSY	1							
28	2	129129-77320	BOLT	2							
29	2	129407-77330	BOLT	2							
30	2	129129-77340	SPRING	1							
31	2	129129-77350	O-RING	2							
32	2	129129-77362	COVER	1							
33	2	129129-77380	CAP	1							
34	1	26106-100252	BOLT, M10X 25 PLATED	2							

Fig.16. GENERATOR

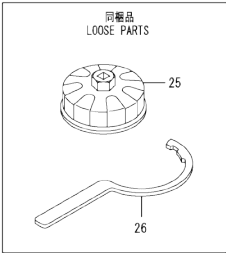
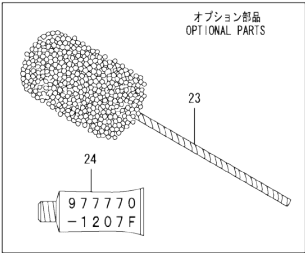
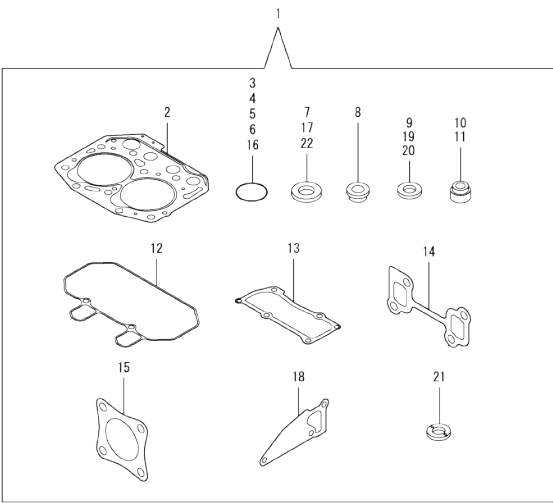


(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119910-77200	DYNAMO ASSY	1							
2	2	X2A10592KA	PLATE ASSY	1							
3	3	X2A07075KB	PLATE, COIL	1							
4	3	X3A02982KC	STATOR ASSY	1							
5	3	X4A10092KA	COLLAR	1							
6	3	XYSPS400800	SCREW	1							
7	3	XM069000000	CLAMP	1							
8	3	XM771860000	COUPLER	1							
9	3	119259-77250	SCREW	2							
10	3	24104-062010	BEARING, 6201UUC3	3							
11	2	XM863720000	NUT	1							
12	2	XM219230000	WASHER	1							
13	2	XM860250000	WASHER	1							
14	2	X3A08863KA	FLYWHEEL ASSY	1							
15	2	XM771870000	CAP	1							
16	1	26106-100452	BOLT, M10X 45 PLATED	1							
17	1	119940-77270	SPACER, GENERATOR	1							
18	1	119734-77330	ADJUSTER	1							
19	1	129972-77341	BOLT, ADJUSTER L=50	1							
20	1	26106-080202	BOLT, M8X 20 PLATED	1							
21	1	194215-52110	SWITCH, STARTING	1							
26	2	194155-52160	KEY ASSY	1							
29	1	129136-66852	SUPPORT	1							
30	1	119643-66900	DIODE	1							
31	1	119247-77100	RELAY, SAFETY	1							
32	1	119653-77711	LIMITER, CURRENT	1							
33	1	119650-77910	RELAY ASSY, GLOW	2							
36	1	129155-77925	TIMER	1							
37	1	129211-77920	TIMER	1							

Fig.17. GASKET SET



Remarks
(1)Optional parts.

(A)=2TNV70-NMBA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-92740	GASKET SET	1							1
2	2	119415-01330	GASKET, HEAD	1							
3	2	119624-32040	O-RING, P12.0	1							
4	2	119717-32050	O-RING, P17.0	3							
5	2	121850-51960	O-RING	1							
6	2	24311-000320	O-RING, 1AP32.0	2							
7	2	22190-160002	WASHER, SEAL 16	1							
8	2	129901-11450	PROTECTOR, NOZZLE	2							
9	2	119600-11460	GASKET, NOZZLE	4							
10	2	119717-11340	SEAL, VALVE STEM	2							
11	2	119717-11350	SEAL, VALVE STEM	2							
12	2	119415-11310	GASKET, BONNET	1							
13	2	119415-11330	GASKET	1							
14	2	119415-13110	GASKET	1							
15	2	121000-13201	GASKET, SILENCER	2							
16	2	119717-32060	O-RING, P15.0	1							
17	2	22190-080002	WASHER, SEAL 6	4							
18	2	119515-42020	GASKET, WATER PUMP	1							
19	2	23414-080000	GASKET, 8X1.0	1							
20	2	124465-44950	GASKET, 16	2							
21	2	129901-59560	GASKET	2							
22	2	22190-120002	WASHER, SEAL 12	4							
23	1	129400-92410	HONE	1							1
24	1	977770-1207F	GASKET LIQUID	1							1
25	1	119332-92751	WRENCH, FILTER 68	1							
26	1	171051-92760	WRENCH, STRAINER	1							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	2
102103-55520	14	10
103854-39140	14	1
104200-55330	14	7
104200-55750	14	15
105010-11490	4	3
105027-12580	5	5
105311-01090	1	5
105425-01690	3	9
110250-55610	14	11
114250-39450	9	11
118200-53010	13	2
119125-51370	11	48
119131-18320	6	5
119225-52102	14	5
119226-07900	4	52
119233-77932	12	135
119247-77100	16	31
119255-44660	10	42
119259-77250	16	9
119285-01990	1	8
119285-11990	4	9
119305-35151	9	17
119305-59120	13	15
119325-13500	6	8
119325-44700	10	19
119332-92751	17	25
119415-01330	1	27
	17	2
119415-01720	3	7
119415-11200	4	19
119415-11240	4	20
119415-11310	4	43
	17	12
119415-11320	4	44
119415-11330	4	45
	17	13
119415-11380	4	33
119415-11740	4	4
119415-13100	6	1
119415-13110	6	2
	17	14
119415-14581	7	3
119415-21700	8	1
119415-39211	9	12
119415-44600	10	38
119415-51030	11	5
119415-51400	11	49
119415-51500	11	64
119415-51700	11	75

Parts No.	Fig. No.	Ref. No.
119415-51710	11	76
119415-51750	11	77
119415-51760	11	78
119415-59540	13	22
119415-59810	13	20
119415-59820	13	21
119415-77820	4	56
119440-12520	5	1
119440-61700	12	12
119446-01770	3	8
119446-34801	9	1
119446-35080	9	6
119515-01200	1	26
119515-01601	3	2
119515-11101	4	11
119515-11110	4	12
119515-11280	4	24
119515-11800	4	57
119515-14400	7	2
119515-21570	8	8
119515-22080	8	14
119515-22300	8	20
119515-22500	8	16
119515-22550	8	33
119515-22900	8	31
119515-23000	8	22
119515-23601	8	26
119515-23611	8	29
119515-42020	10	13
	17	18
119515-42041	10	4
119515-44540	10	36
119515-44610	10	39
119515-51100	11	9
119515-53001	13	1
119515-53010	13	3
119534-61420	12	29
119534-61430	12	30
119540-42000	10	1
119540-59570	13	29
119600-11460	4	2
	17	9
119620-01750	3	3
119620-02020	1	9
119620-14200	7	1
119620-21500	8	7
119620-21941	8	13
119620-59700	13	33
119621-21681	8	12
119623-01250	1	6

Parts No.	Fig. No.	Ref. No.
119624-32040	2	18
	17	3
119629-49080	10	48
119631-12650	5	6
119643-66900	16	30
119650-77910	16	33
119653-77711	16	32
119655-12560	5	3
119655-12570	5	4
119660-01911	2	17
119660-61901	12	75
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