

0CD11-M04000EN

P R E F A C E

1. This parts catalog is the 1st edition of 2TNV70-MTA for R&B ENGINEERING Co., Ltd.

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2. Model name

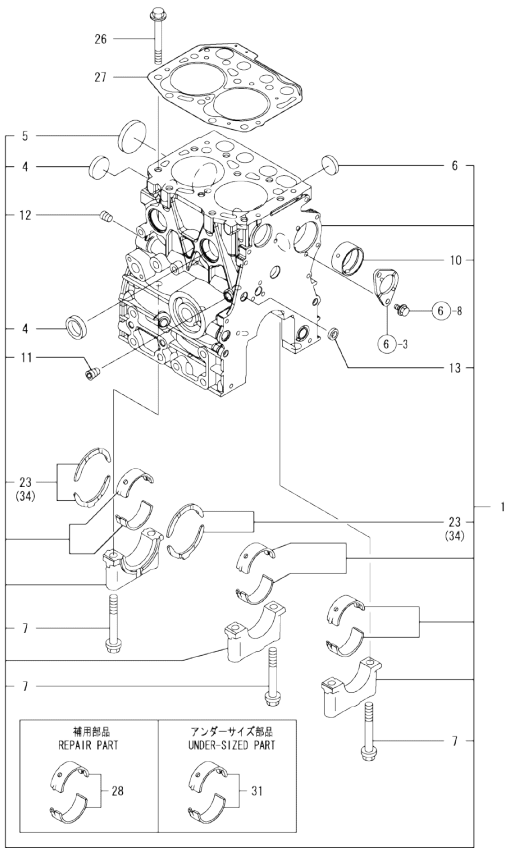
Engine model	Vehicle	Vehicle made by
2TNV70-MTA	CRAWLER CRANE	R&B ENGINEERING Co., Ltd.

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0CD11-M04000

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Fig.1. CYLINDER BLOCK

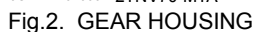


Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

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

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

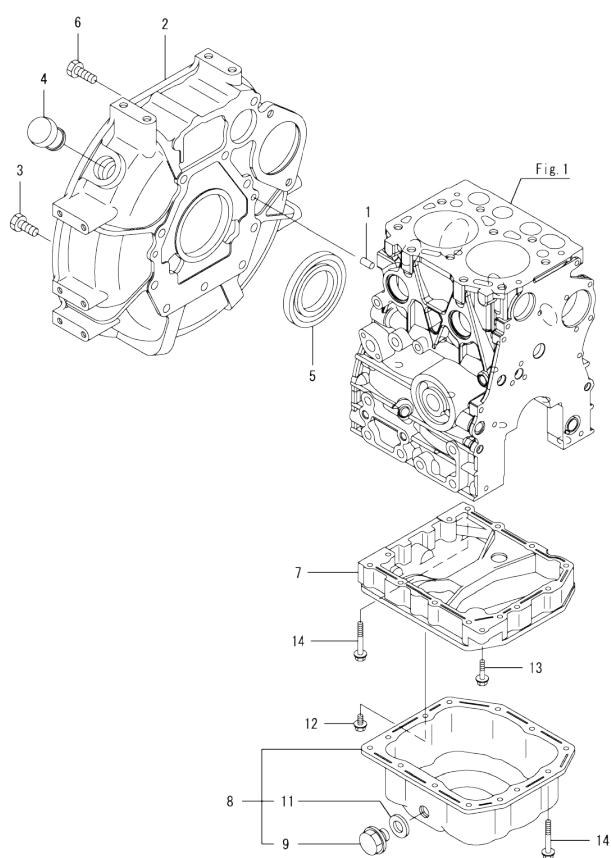
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-01561	BLOCK ASSY, CYLINDER	1							
4	2	105311-01090	PLUG, 30	3							
5	2	119623-01250	PLUG, 45	1							
6	2	119285-01990	PLUG, 25	2							
7	2	119620-02020	BOLT, METAL CAP	6							
10	2	119717-02411	BUSH, CAMSHAFT	1							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	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



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
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	3	119717-01800	SEAL, OIL	1							
7	3	23876-030000	PLUG, R03	2							
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							

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



0CD11-M04000 Fig.3

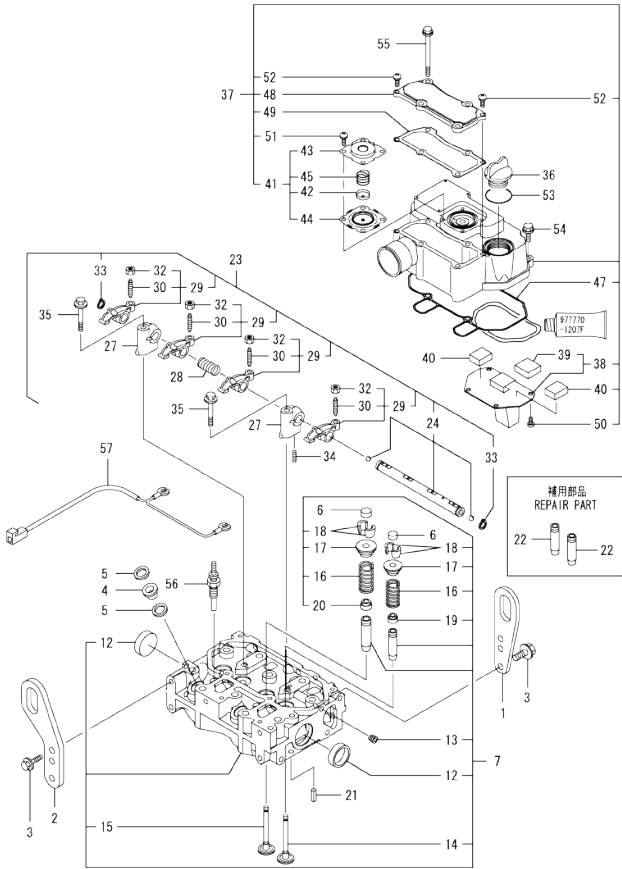
(A)=2TNV70-MTA
(B)=
(C)=

(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	121120-01620	BOLT, M10X28	3							
4	1	119620-01750	CAP	1							
5	1	124085-02220	SEAL, OIL	1							
6	1	26206-100252	BOLT, M10X 25 PLATED	7							
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							

OCD11-M04000 2TNV70-MTA

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

OCD11-M04000 Fig.4

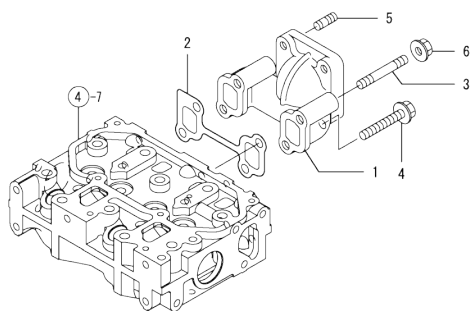
(A)=2TNV70-MTA
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119226-07900	LIFTER	1							
2	1	129486-07901	LIFTER	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	4							
4	1	129901-11450	PROTECTOR, NOZZLE	2							
5	1	119600-11460	GASKET, NOZZLE	4							
6	1	105010-11490	CAP, VALVE	4							
7	1	119415-11740	HEAD ASSY, CYLINDER	1							
12	2	119285-11990	PLUG, 35	2							
13	2	23876-005000	PLUG, R005	1							
14	2	119515-11101	VALVE, INTAKE	2							
15	2	119515-11110	VALVE, EXHAUST	2							
16	2	119717-11131	SPRING, VALVE	4							
17	2	129508-11180	RETAINER, SPRING	4							
18	2	119717-11190	COTTER	8							
19	2	119717-11340	SEAL, VALVE STEM	2							
20	2	119717-11350	SEAL, VALVE STEM	2							
21	1	22351-060012	PIN, SPRING 6.0X12	2							
22	1	119515-11800	GUIDE, VALVE	4							1
23	1	119415-11200	SUPPORT ASSY, ARM	1							
24	2	119415-11240	SHAFT ASSY, ROCKER	1							
27	2	119717-11260	SUPPORT, ROCKER ARM	2							
28	2	119515-11280	SPRING	1							
29	2	119717-11650	ARM, ROCKER	4							
30	3	129150-11230	SCREW, VALVE ADJUST	4							
32	3	129150-11750	NUT, M8	4							
33	2	22242-000120	RING, 12	2							
34	2	26979-050162	SCREW, M5X16	1							
35	1	26106-080402	BOLT, M8X 40 PLATED	2							
36	1	124160-01751	COVER, FILLER	1							
37	1	119415-11380	BONNET ASSY, HEAD	1							
38	2	119717-03031	PLATE	1							
39	3	119717-03070	BAFFLE, BREATHER	1							
40	2	119717-03070	BAFFLE, BREATHER	2							
41	2	119802-03100	DIAPHRAGM ASSY	1							
42	3	119802-03110	PLATE	1							
43	3	119802-03121	COVER, DIAPHRAGM	1							
44	3	119802-03131	DIAPHRAGM	1							
45	3	119802-03141	SPRING, DIAPHRAGM	1							
47	2	119415-11310	GASKET, BONNET	1							
48	2	119415-11320	COVER, BONNET	1							
49	2	119415-11330	GASKET	1							
50	2	22857-500100	SCREW, 5X10	4							
51	2	22857-500100	SCREW, 5X10	4							
52	2	22857-500160	SCREW, 5X16	2							
53	1	24311-000320	O-RING, 1AP32.0	1							
54	1	26106-060202	BOLT, M6X 20 PLATED	2							
55	1	26106-060752	BOLT, M6X 75 PLATED	4							
56	1	119717-77800	PLUG, GLOW	2							
57	1	119415-77820	CONNECTOR, GLOW PLUG	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.5. EXHAUST MANIFOLD & SILENCER



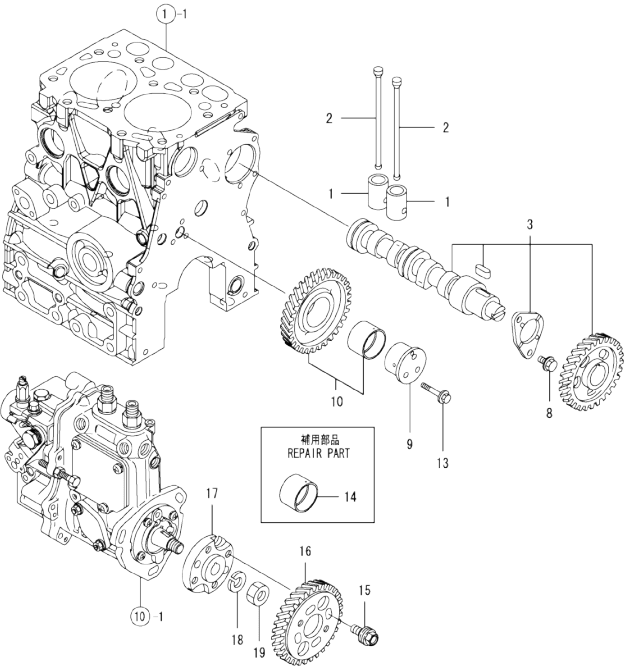
(A)=2TNV70-MTA
(B)=
(C)=

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

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	119325-12550	CLEANER ASSY, AIR	1							
8	2	119808-12540	VALVE, UNLOADER	1							
9	2	119655-12560	ELEMENT	1							
10	2	119686-12570	COVER ASSY	1							
11	2	105027-12580	RING	1							
12	1	119641-12570	PIPE, AIR INTAKE	1							
13	1	119515-13200	GASKET, SILENCER	3							
14	1	119325-13500	SILENCER	1							
15	1	23000-060000	CLAMP, 60	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.6. CAMSHAFT & DRIVING GEAR



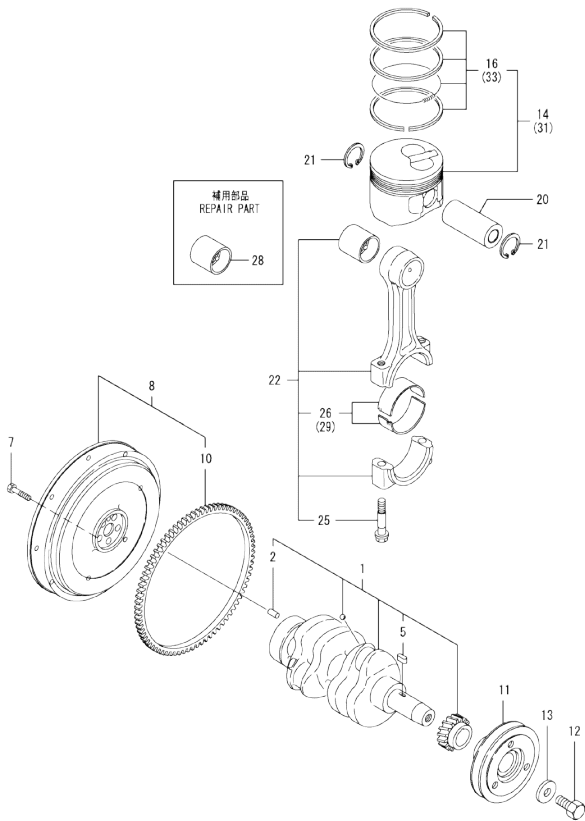
Remarks
(1) REPAIR PART.

(A)=2TNV70-MTA
(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	119717-25911	BUSH, IDLE GEAR	1							1
15	1	129150-25301	BOLT	4							
16	1	119717-25930	GEAR, PUMP	1							
17	1	119717-51150	FLANGE	1							
18	1	22217-120000	WASHER, SPRING 12	1							
19	1	26716-120002	NUT, M12	1							

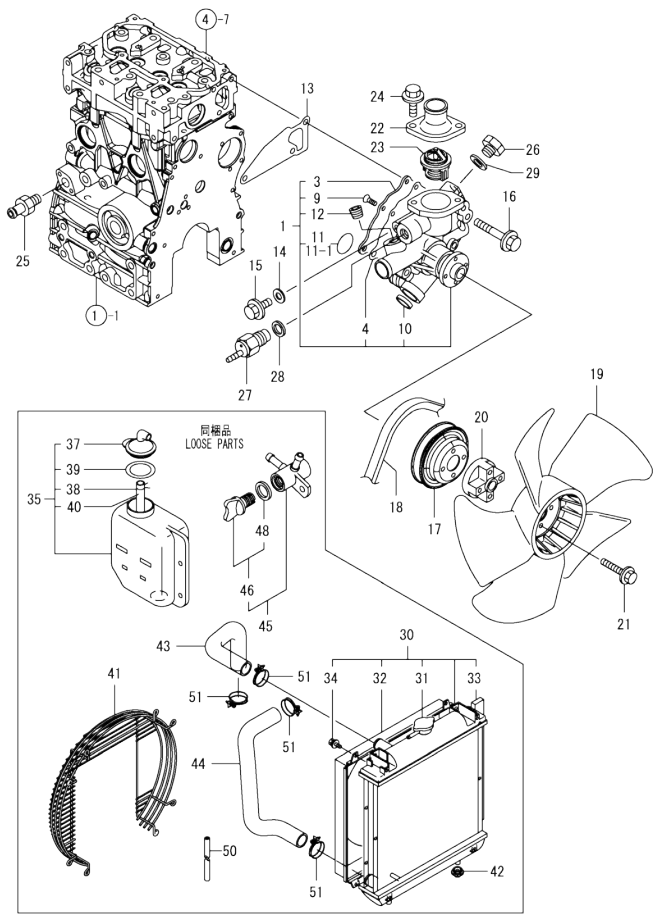
Fig.7. CRANKSHAFT & PISTON



Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

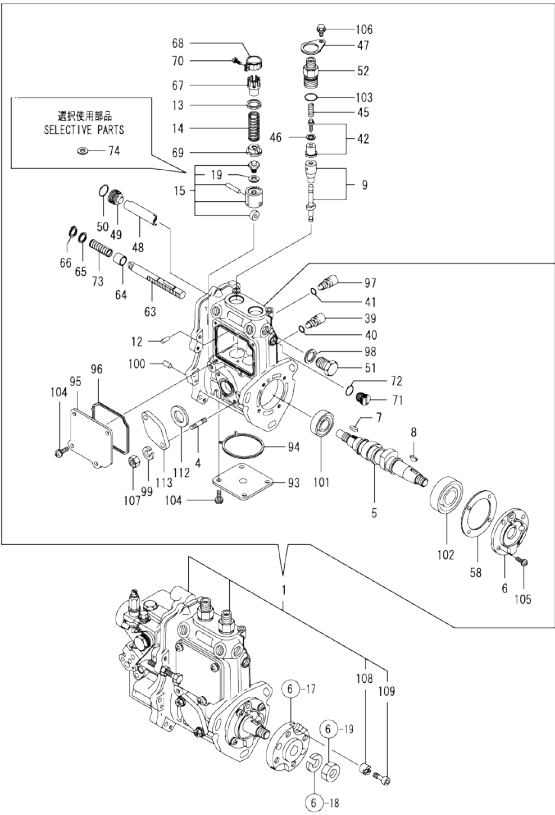
							OCD11-M04000 Fig.7					
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							(D)=					
							(E)=					
							(F)=					
							Q'ty					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	119415-21700	CRANKSHAFT ASSY	1								
2	2	129100-01580	PIN, M8X16	1								
5	2	22512-040120	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	119621-21680	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								
28	1	119717-23910	BEARING, PISTON PIN	2								1
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. COOLING WATER SYSTEM



										OCD11-M04000 Fig.9	
										(A)=2TNV70-MTA	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119540-42000	PUMP ASSY, WATER	1							
1-1	1	119C10-42000	PUMP ASSY, WATER	1						N	
(A=ED7289)											
3	2	119515-42041	COVER	1							
4	2	119717-42031	GASKET	1							
9	2	26577-060122	SCREW, M6X12	4							
10	2	27241-250000	PLUG, 25	1							
11	2	119717-42320	O-RING, P26	1							
11-1	2	119C10-42320	O-RING, 2028	1						S	
(A=ED7289)											
12	2	129916-49740	PLUG, R3/8	1							
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, D=90	1							
18	1	121522-42290	V-BELT, A34.5	1							
19	1	119233-44740	FAN, D=290XUH	1							
20	1	121267-44760	SPACER, FAN	1						Z	
(A=2009.02)											
20-1	1	129030-44760	SPACER, FAN L38.5	1						W	
21	1	26106-060302	BOLT, M6X 30 PLATED	4						Z	
21-1	1	26106-060502	BOLT, M6X 50 PLATED	4						Z	
(A=2009.02)											
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, THERMO 110	1							
28	1	124465-44950	GASKET, 16	1							
29	1	124465-44950	GASKET, 16	1							
30	1	119717-44500	RADIATOR ASSY	1							
31	2	129107-44590	CAP, RADIATOR	1							
32	2	119515-44600	SHROUD	1							
33	2	119515-44610	GASKET	2							
34	2	26014-060122	BOLT, M6X 12	4							
35	1	121468-44520	TANK ASSY, SUB	1							
37	2	121450-44531	CAP	1							
38	2	124450-44560	CLAMP, HOSE	1							
39	2	121470-44581	GASKET	1							
40	2	23065-070130	PIPE, 7X 130	1							
41	1	119802-44560	GUARD	1						Z	
41-1	1	119802-44570	GUARD, FAN	1						W	
(A=2009.02)											
42	1	119255-44660	ABSORBER	2							
43	1	119802-49010	HOSE, WATER	1							
44	1	119940-49020	PIPE, WATER	1							
45	1	129150-49100	COCK ASSY, 3-WAY	1							
46	2	129150-49080	COCK, DRAIN	1							
48	3	119629-49080	GASKET	1							

Fig.10. FUEL INJECTION PUMP

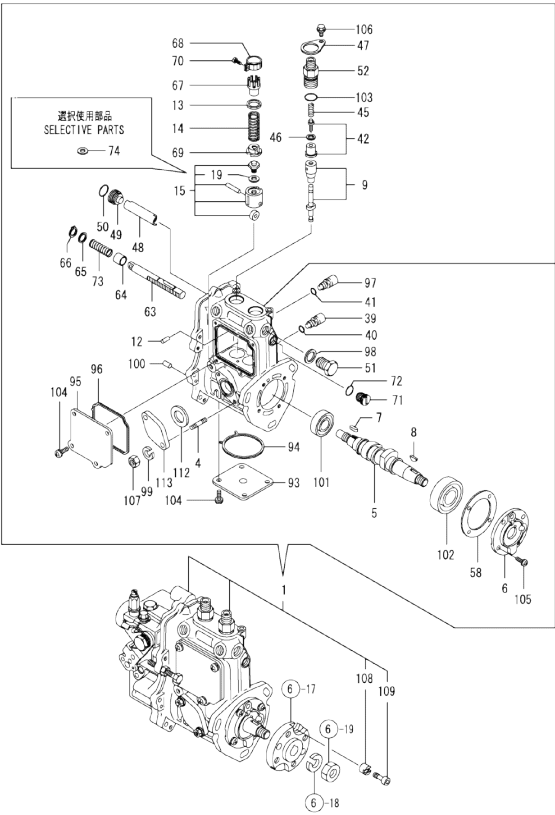


Remarks
(1) GOVERNOR ASSY(FIG.11) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).
(2) SELECTIVE PARTS.

										OCD11-M04000 Fig.10	
										(A)=2TNV70-MTA	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719440-51430	PUMP ASSY, INJECTION	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	158600-51170	RETAINER, SPRING	2							
14	2	119717-51190	SPRING, PLUNGER	2							
15	2	119717-51200	TAPPET ASSY	2							
19	3	129155-51600	SHIM SET, ADJUSTING	2							
39	2	158600-51270	STOPPER, TAPPET	2							
40	2	129155-51280	O-RING, S6	2							
41	2	129155-51280	O-RING, S6	1							
42	2	119717-51300	VALVE ASSY, DELIVERY	2							
45	2	119717-51330	SPRING, DELIVERY	2							
46	2	124550-51350	GASKET, DELIVERY	2							
47	2	118400-51370	LOCKING	2							
48	2	119415-51400	PROTECTOR	1							
49	2	158600-51410	PLUG, DEFLECTOR	1							
50	2	119717-51420	O-RING	1							
51	2	158600-51420	PLUG, DEFLECTOR	1							
52	2	158600-51442	VALVE ASSY, DELIVERY	2							
58	2	129155-51450	SHIM SET, ADJUSTING	1							
63	2	119415-51500	RACK, CONTROL	1							
64	2	129155-51521	BUSH, RACK	1							
65	2	129155-51530	SPACER	1							
66	2	129155-51540	CIRCLIP	1							
67	2	129155-51550	PINION, CONTROL	2							
68	2	129100-51560	PINION	2							
69	2	119717-51570	RETAINER, SPRING	2							
70	2	129100-51570	SCREW	2							
71	2	158600-51570	PLUG	1							
72	2	129155-51580	O-RING	1							
73	2	129155-51591	SPRING, RACK	1							
74	2	129155-51600	SHIM SET, ADJUSTING	2						2	
93	2	119415-51700	COVER	1							
94	2	119415-51710	GASKET	1							
95	2	119415-51750	COVER	1							
96	2	119415-51760	GASKET	1							
97	2	158600-51790	STOOPER, RACK	1							
98	2	22190-160002	WASHER, SEAL 16	1							
99	2	22217-060000	WASHER, SPRING 6	2							
100	2	22351-050010	PIN, SPRING 5.0X10	2							
101	2	24101-060034	BEARING, BALL 6003	1							
102	2	24101-063034	BEARING, BALL 6303	1							
103	2	24316-000150	O-RING, 4DP15.0	2							
104	2	26022-050122	SCREW, M5X12	8							
105	2	26022-060162	SCREW, M6X16	4							
106	2	26106-050102	BOLT, M5X 10 PLATED	2							

0CD11-M04000 2TNV70-MTA

Fig.10. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.11) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).
(2) SELECTIVE PARTS.

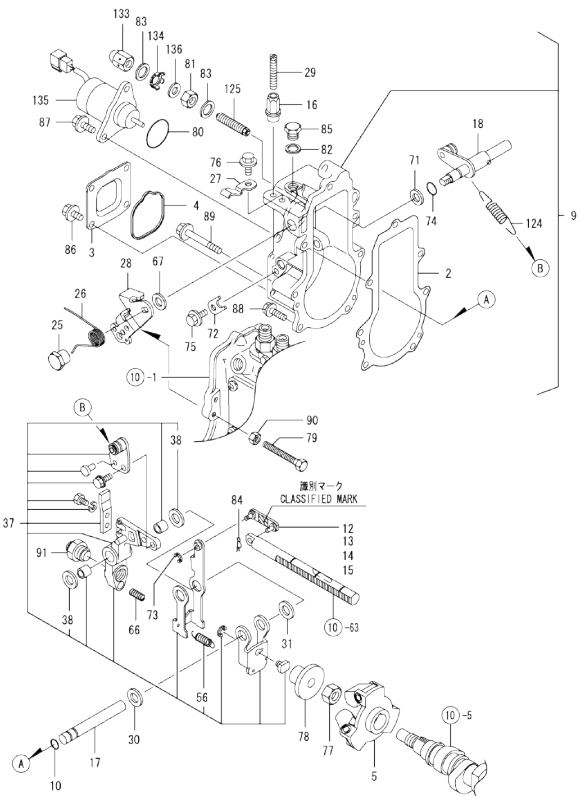
0CD11-M04000 Fig.10

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
107	2	26716-060002	NUT, M6	2							
108	2	119717-51480	COLLAR	1							
109	2	119717-51490	BOLT	1							
112	2	129155-52051	GASKET	1							
113	2	129100-52200	COVER	1							

Fig.11. GOVERNOR



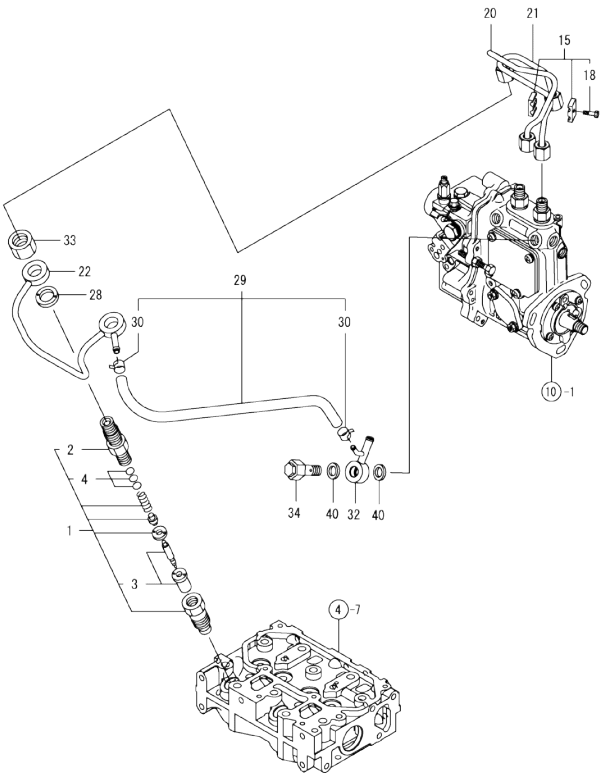
Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.10).
(1) SELECTIVE PARTS: CERTAIN THE
CLASSIFICATION MARK THEN PLACE
YOUR ORDER(REF.TO ILLUSTRATION).

(A)=2TNV70-MTA
(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	119717-61200	WEIGHT ASSY,GOVERNOR	1							
9	2	119540-61300	CASE ASSY, GOVERNOR	1							
10	3	129155-51280	O-RING, S6	1							
12	3	119717-61120	LINK, MARK :3	1							1
13	3	119717-61130	LINK, MARK 98	1							1
14	3	119717-61140	LINK, MARK 88	1							1
15	3	119717-61150	LINK, MARK 03	1							1
16	3	129209-61370	NUT, M6	1							
17	3	129052-61390	SHAFT	1							
18	3	119717-61400	SHAFT ASSY	1							
25	3	129255-61410	NUT, LOCK	1							
26	3	119534-61420	SPRING	1							
27	3	119534-61430	RETAINER	1							
28	3	119515-61440	LEVER, CONTROL	1							
29	3	129155-61450	BOLT, LIMITER	1							
30	3	129156-61460	SHIM, T=0.6	1							
31	3	129155-61480	SPACER ASSY	1							
37	3	119761-61500	LEVER ASSY, GOVERNOR	1							
38	4	174307-51700	SHIM SET	2							
56	4	129486-61540	SPRING, SET	1							
66	3	129100-61650	SPRING, CONTROLLER	1							
67	3	158552-61700	SHIM SET	1							
71	3	158552-61710	SHIM, T=1.0	1							
72	3	119660-61901	RETAINER, SHAFT	1							
73	3	22272-000030	RING, E- 3	1							
74	3	24341-000070	O-RING, 1AS7.0	1							
75	3	26106-060102	BOLT, M6X 10 PLATED	1							
76	3	26106-060102	BOLT, M6X 10 PLATED	1							
77	2	129008-61301	NUT	1							
78	2	129155-61341	SLEEVE	1							
79	2	129155-61460	BOLT, IDLE	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	119515-61550	ANGLEICH ASSY	1							
124	2	129500-61720	SPRING, GOVERNOR	1							
125	2	158601-61790	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. FUEL INJECTION VALVE



Remarks
(1) REPAIR PART.

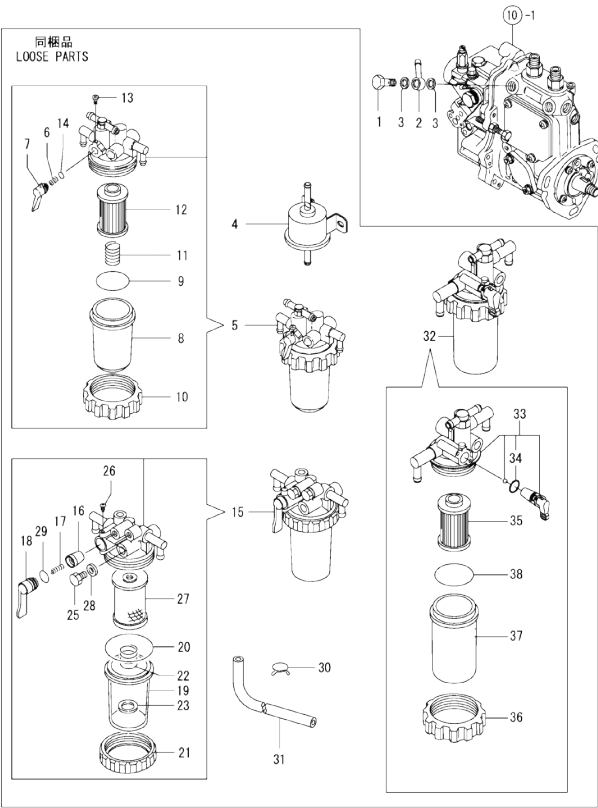
(A)=2TNV70-MTA
(B)=
(C)=

(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							1
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							

OCD11-M04000 2TNV70-MTA

Fig.13. FUEL FILTER



Remarks
(1)Ref.No.5& Ref.No.32
interchangeable by set.

OCD11-M04000 Fig.13

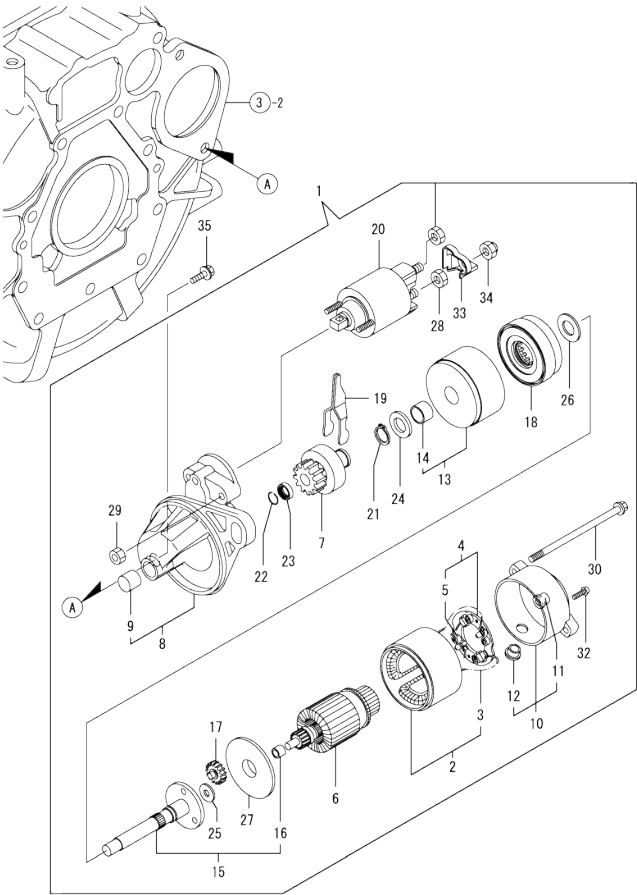
(A)=2TNV70-MTA
(B)=
(C)=

(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	119225-52102	PUMP ASSY, FUEL FEED	1							1
5	1	119833-55620	FILTER ASSY, FUEL	1							
6	2	104200-55330	SPRING, VALVE	1							
7	2	119810-55340	LEVER	1							
8	2	121254-55510	COVER	1							
9	2	102103-55520	O-RING	1							
10	2	110250-55610	RING, RETAINING	1							
11	2	121250-55620	SPRING	1							
12	2	119810-55650	ELEMENT	1							
13	2	104200-55750	SCREW, M4	1							
14	2	24311-240100	O-RING, 1AP10A	1							
15	1	129335-55700	SEPARATOR ASSY,WATER	1							
16	2	104200-55321	VALVE, TAPER	1							
17	2	104200-55330	SPRING, VALVE	1							
18	2	104200-55341	HANDLE	1							
19	2	124064-55510	COVER	1							
20	2	102103-55520	O-RING	1							
21	2	110250-55610	RING, RETAINING	1							
22	2	121257-55720	SPRING	1							
23	2	121257-55731	FLOAT	1							
25	2	101720-55750	PLUG, 6	2							
26	2	104200-55750	SCREW, M4	1							
27	2	171081-55910	SCREEN	1							
28	2	23418-060000	GASKET, 6X1.0	2							
29	2	24311-240100	O-RING, 1AP10A	1							
30	1	124766-59050	CLIP, HOSE 12	19							
31	1	121525-59090	PIPE, FUEL D12X2500	1							
32	1	119833-55630	FILTER ASSY, FUEL	1							W 1
(A=EXXXXX)											
33	2	119833-55640	BODY ASSY,FILTER	1							W
(A=EXXXXX)											
34	3	24311-000110	O-RING, 1AP11.0	1							W
(A=EXXXXX)											
35	2	119833-55650	ELEMENT, FUEL	1							W
(A=EXXXXX)											
36	2	119833-55660	RING, RETAINING	1							W
(A=EXXXXX)											
37	2	119833-55670	BOWL, STRAINER	1							W
(A=EXXXXX)											
38	2	24311-000440	O-RING, 1AP44.0	1							W
(A=EXXXXX)											

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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OCD11-M04000 2TNV70-MTA
Fig.14. STARTING MOTOR

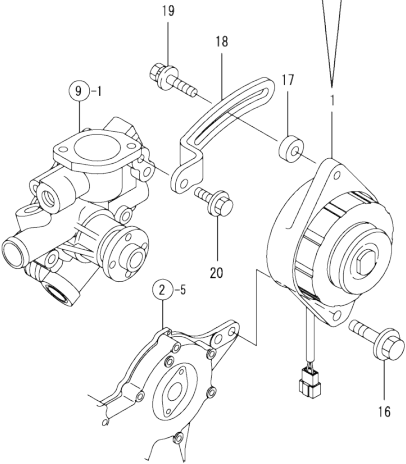
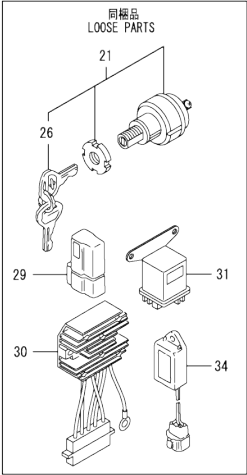
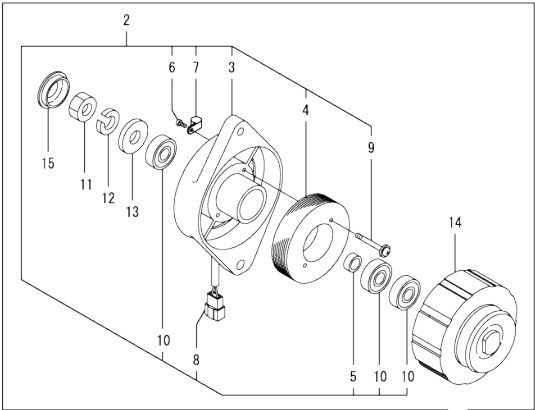


										OCD11-M04000 Fig.14	
										(A)=2TNV70-MTA	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										(A)	(B)
										(C)	(D)
										(E)	(F)
										I	R
No.	Lev.	Parts No.	Description								
1	1	119515-77010	STARTER, P1.1							1	
2	2	X0281007680	YOKE ASSY							1	
3	3	X0280996180	STARTER KIT							2	
4	2	X0285105190	HOLDER ASSY							1	
5	3	X0285205030	SPRING							4	
6	2	X0282005871	ARMATURE ASSY							1	
7	2	X0283006960	CLUTCH ASSY							1	
8	2	X4284001590	HOUSING ASSY,STARTER							1	
9	3	X9491050100	BEARING, NEEDLE							1	
10	2	X0285007030	FRAME ASSY.							1	
11	3	X9491040990	BEARING							1	
12	3	X0280626010	COVER							1	
13	2	X0284105040	BEARING ASSY							1	
14	3	X9491034330	BEARING							1	
15	2	X0286105010	SHAFT ASSY							1	
16	3	X9491034320	BEARING							1	
17	2	X0286305010	GEAR							3	
18	2	X0286355010	GEAR							1	
19	2	X0287405140	LEVER							1	
20	2	X0534007800	SWITCH ASSY							1	
21	2	X9055715000	RING							1	
22	2	X9490721360	RING							1	
23	2	X0280210331	NUT							1	
24	2	X9490138110	WASHER							1	
25	2	X9490138090	WASHER							1	
26	2	X9490138100	WASHER							1	
27	2	X0284525010	PLATE							1	
28	2	X9490562360	NUT							1	
29	2	X9490560750	NUT							2	
30	2	X9490423520	BOLT, THROUGH							2	
32	2	X9490065670	SCREW, M4X6							2	
33	2	X0280335360	COVER, TERMINAL							1	
34	2	X1289510130	NUT							1	
35	1	26106-100252	BOLT, M10X 25 PLATED							2	

Fig.15. GENERATOR

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

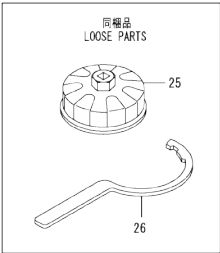
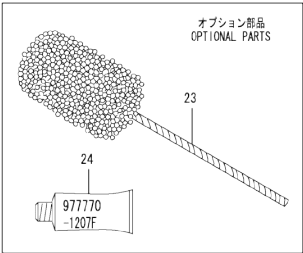
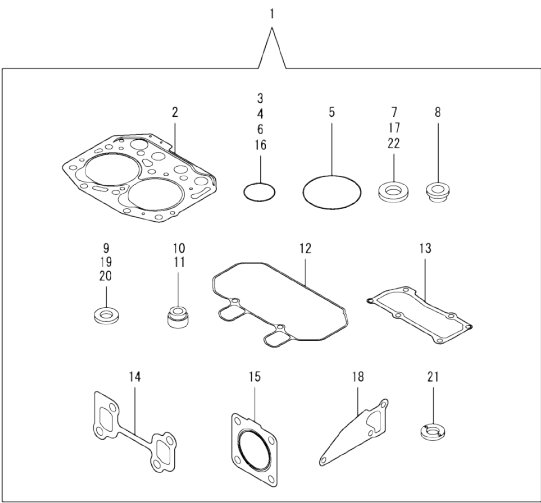
(D)=
(E)=
(F)=



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, WASHER SET	2							
10	3	24104-062010	BEARING, 6201UUC3	3							
11	2	XM863720000	NUT	1							
12	2	XM219230000	WASHER, SPRING	1							
13	2	XM860250000	WASHER, PLAIN	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	119643-66900	DIODE	1							
30	1	129150-77711	LIMITER, CURRENT 20A	1							
31	1	119650-77910	RELAY ASSY, GLOW	1							
34	1	129211-77920	TIMER	1							

OCD11-M04000 2TNV70-MTA

Fig.16. GASKET SET



OCD11-M04000 Fig.16

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-92720	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	119515-13200	GASKET, SILENCER	3							
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	FLEX HORN	1							1
24	1	977770-01212	GASKET, LIQUID	1							1
25	1	119332-92751	WRENCH, FILTER 68	1							
26	1	171051-92760	WRENCH, STRAINER	1							

Remarks
(1) OPTIONAL PART.

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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Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	13	2
101720-55750	13	25
102103-55520	13	9
		20
103854-39140	13	1
104200-55321	13	16
104200-55330	13	6
		17
104200-55341	13	18
104200-55750	13	13
		26
105010-11490	4	6
105027-12580	5	11
105311-01090	1	4
105425-01690	3	9
110250-55610	13	10
		21
114250-39450	8	11
118200-53010	12	2
118400-51370	10	47
119131-18320	5	5
119225-52102	13	4
119226-07900	4	1
119233-44740	9	19
119233-77932	11	135
119255-44660	9	42
119259-77250	15	9
119285-01990	1	6
119285-11990	4	12
119305-35151	8	4
119305-59120	12	15
119325-12550	5	7
119325-13500	5	14
119332-92751	16	25
119415-01330	1	27
	16	2
119415-01720	3	7
119415-11200	4	23
119415-11240	4	24
119415-11310	4	47
	16	12
119415-11320	4	48
119415-11330	4	49
	16	13
119415-11380	4	37
119415-11740	4	7
119415-13100	5	1
119415-13110	5	2
	16	14
119415-14581	6	3

Parts No.	Fig. No.	Ref. No.
119415-21700	7	1
119415-39211	8	12
119415-51030	10	5
119415-51400	10	48
119415-51500	10	63
119415-51700	10	93
119415-51710	10	94
119415-51750	10	95
119415-51760	10	96
119415-59540	12	22
119415-59810	12	20
119415-59820	12	21
119415-77820	4	57
119446-01770	3	8
119446-34801	8	1
119446-35080	8	6
119515-01200	1	26
119515-01601	3	2
119515-11101	4	14
119515-11110	4	15
119515-11280	4	28
119515-11800	4	22
119515-13200	5	13
	16	15
119515-14400	6	2
119515-21570	7	8
119515-22080	7	14
119515-22300	7	20
119515-22500	7	16
119515-22550	7	33
119515-22900	7	31
119515-23000	7	22
119515-23601	7	26
119515-23611	7	29
119515-42020	9	13
	16	18
119515-42041	9	3
119515-44600	9	32
119515-44610	9	33
119515-51100	10	9
119515-53001	12	1
119515-53010	12	3
119515-61440	11	28
119515-61550	11	91
119515-77010	14	1
119534-61420	11	26
119534-61430	11	27
119540-42000	9	1
119540-59570	12	29
119540-61300	11	9

Parts No.	Fig. No.	Ref. No.
119600-11460	4	5
	16	9
119620-01750	3	4
119620-02020	1	7
119620-14200	6	1
119620-21500	7	7
119620-21941	7	13
119620-59700	12	33
119621-21680	7	12
119623-01250	1	5
119624-32040	2	18
	16	3
119629-49080	9	48
119641-12570	5	12
119643-66900	15	29
119650-77910	15	31
119655-12560	5	9
119660-01911	2	17
119660-61901	11	72
119686-12570	5	10
119717-01501	2	1
119717-01521	2	5
119717-01570	2	2
119717-01750	2	16
119717-01800	2	6
119717-02411	1	10
119717-02930	1	23
119717-03031	4	38
119717-03070	4	39
		40
119717-11131	4	16
119717-11190	4	18
119717-11260	4	27
119717-11340	4	19
	16	10
119717-11350	4	20
	16	11
119717-11650	4	29
119717-13600	5	3
119717-21650	7	11
119717-23200	7	25
119717-23910	7	28
119717-25050	6	9
119717-25101	6	10
119717-25911	6	14
119717-25930	6	16
119717-32050	2	19
	16	4
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