

0CD11-M04100EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV70-NTB for Takeuchi Mfg.Co., Ltd.

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2. Model name

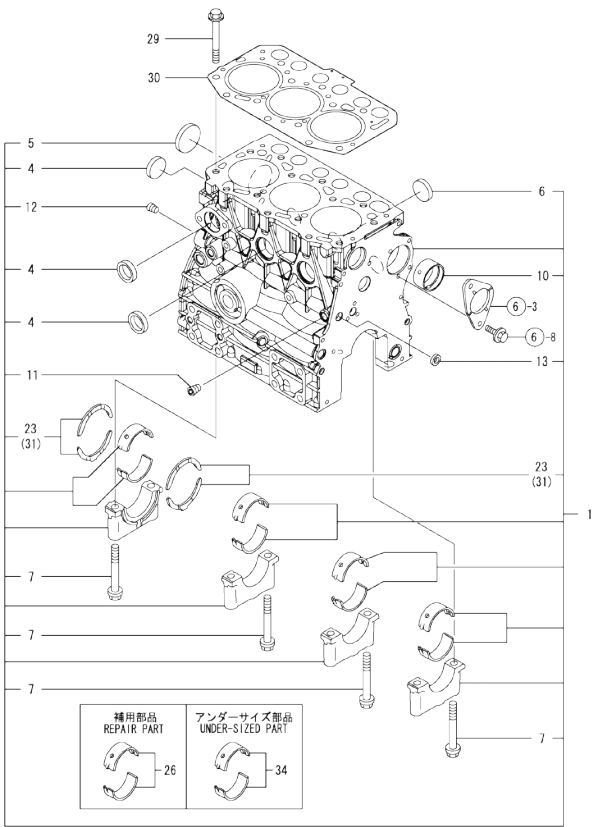
Engine model	Vehicle	Vehicle made by
3TNV70-NTB	EXCAVATOR	Takeuchi Mfg.Co., Ltd

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Fig.1. CYLINDER BLOCK

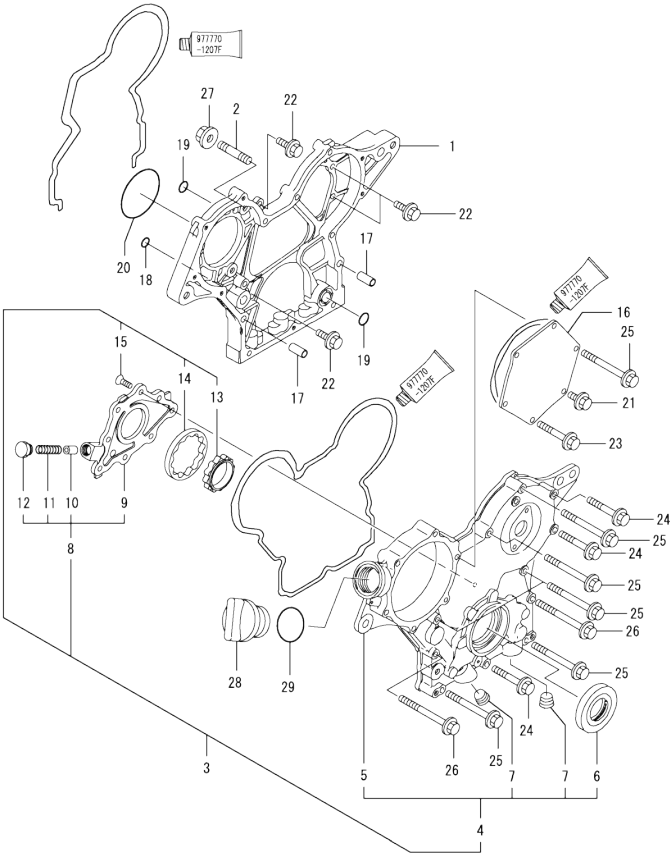


Remarks
(1) REPAIR PART.
(2) OVER-SIZED(U.S=0.25)PART.
(3) UNDER-SIZED(U.S=0.25)PART.

				(A)=3TNV70-NTB (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719515-01561	BLOCK ASSY, CYLINDER	1							
4	2	105311-01090	PLUG, 30	4							
5	2	119623-01250	PLUG, 45	1							
6	2	119285-01990	PLUG, 25	3							
7	2	119620-02020	BOLT, METAL CAP	8							
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	719717-02901	BEARING, MAIN	4							1
29	1	119515-01200	BOLT, HEAD	14							
30	1	119515-01330	GASKET, HEAD	1							
31	1	119810-02941	BEARING, THRUST 0.25	2							2
34	1	719717-02911	BEARING, 0.25 US	4							3

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Fig.2. GEAR HOUSING



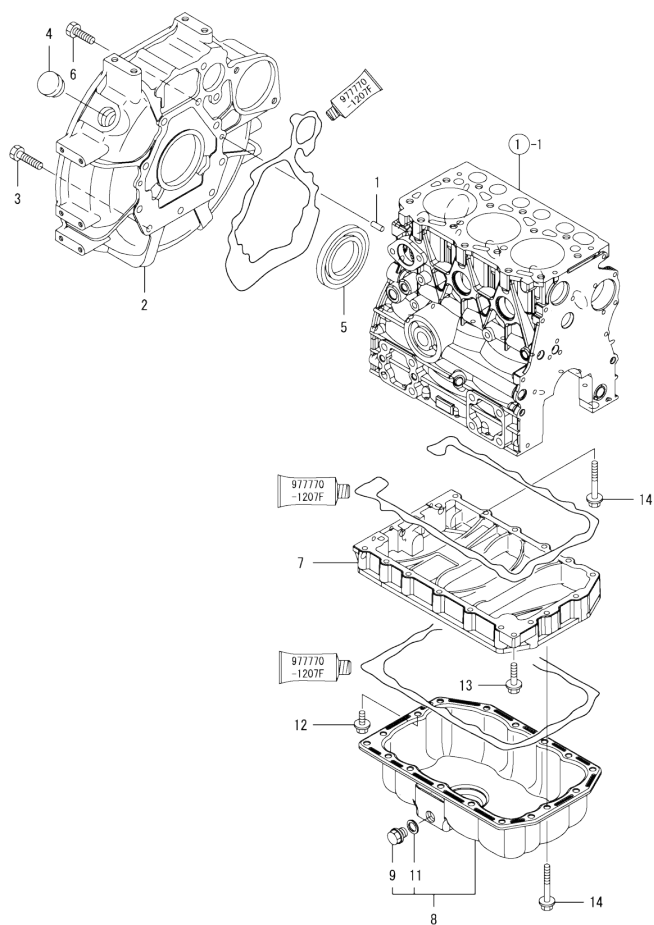
OCD11-M04100 Fig.2

(A)=3TNV70-NTB
(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	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							

Fig.3. FLYWHEEL HOUSING & OIL SUMP



(A)=3TNV70-NTB
(B)=
(C)=

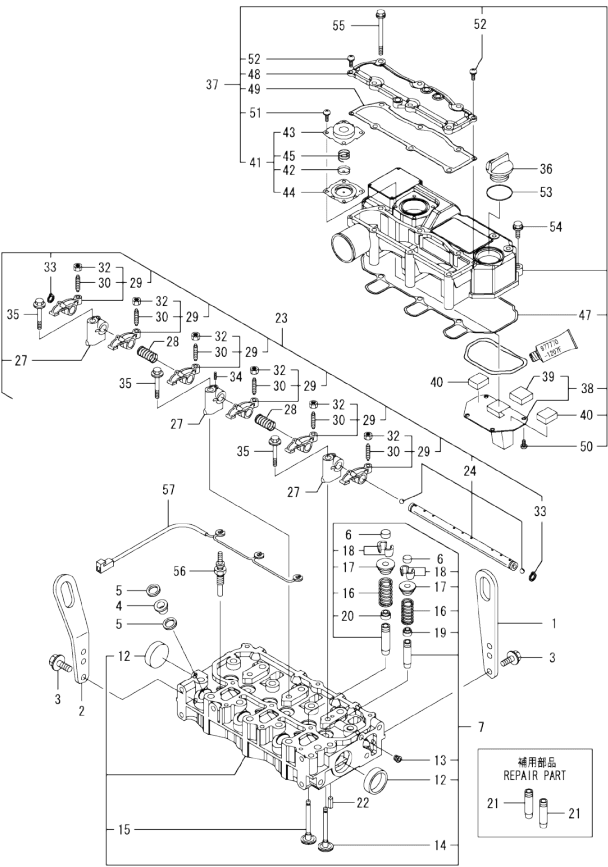
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, M8X16	2							
2	1	119717-01601	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	8							
7	1	119515-01720	SPACER, OIL SUMP	1							
8	1	119515-01770	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	17							

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

OCD11-M04100 3TNV70-NTB

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

OCD11-M04100 Fig.4

(A)=3TNV70-NTB
(B)=
(C)=

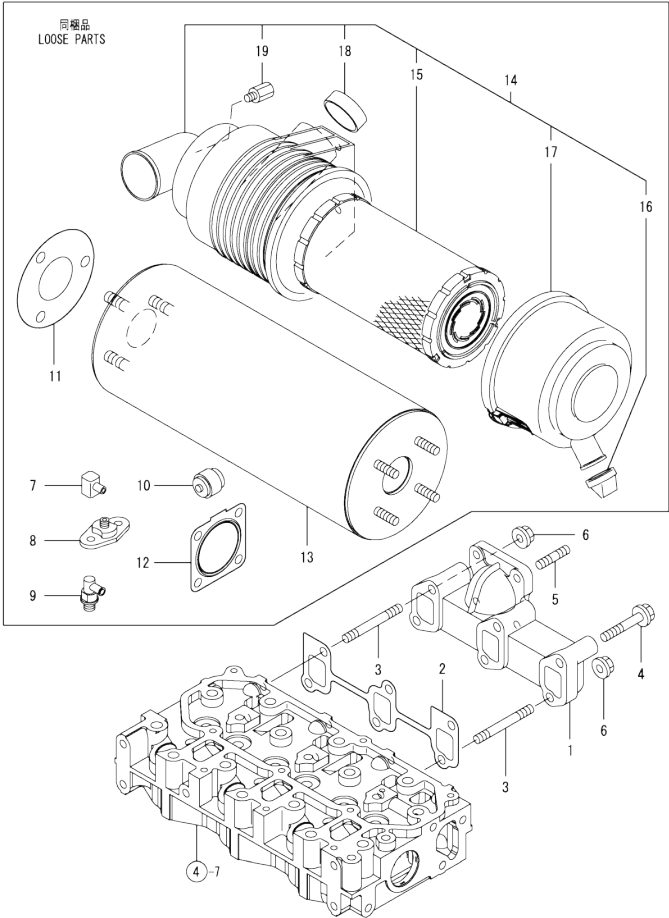
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER	1							
2	1	119540-07920	LIFTER	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	4							
4	1	129901-11450	PROTECTOR, NOZZLE	3							
5	1	119600-11460	GASKET, NOZZLE	6							
6	1	105010-11490	CAP, VALVE	6							
7	1	119515-11740	HEAD ASSY, CYLINDER	1							
12	2	119285-11990	PLUG, 35	2							
13	2	23876-005000	PLUG, R005	1							
14	2	119515-11101	VALVE, INTAKE	3							
15	2	119515-11110	VALVE, EXHAUST	3							
16	2	119717-11131	SPRING, VALVE	6							
17	2	129508-11180	RETAINER, SPRING	6							
18	2	119717-11190	COTTER	12							
19	2	119717-11340	SEAL, VALVE STEM	3							
20	2	119717-11350	SEAL, VALVE STEM	3							
21	1	119515-11800	GUIDE, VALVE	6							1
22	1	22351-060012	PIN, SPRING 6.0X12	2							
23	1	119515-11200	SUPPORT ASSY, ARM	1							
24	2	119515-11240	SHAFT ASSY, ROCKER	1							
27	2	119717-11260	SUPPORT, ROCKER ARM	3							
28	2	119515-11280	SPRING	2							
29	2	119717-11650	ARM, ROCKER	6							
30	3	129150-11230	SCREW, VALVE ADJUST	6							
32	3	129150-11750	NUT, M8	6							
33	2	22242-000120	RING, 12	2							
34	2	26979-050162	SCREW, M5X16	1							
35	1	26106-080402	BOLT, M8X 40 PLATED	3							
36	1	124160-01751	COVER, FILLER	1							
37	1	119515-11380	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	119515-11310	GASKET, BONNET	1							
48	2	119515-11320	COVER, BONNET	1							
49	2	119515-11330	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	3							
55	1	26106-060752	BOLT, M6X 75 PLATED	6							
56	1	119717-77800	PLUG, GLOW	3							
57	1	119717-77820	CONNECTOR, GLOW PLUG	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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Fig.5. EXHAUST MANIFOLD & AIR CLEANER



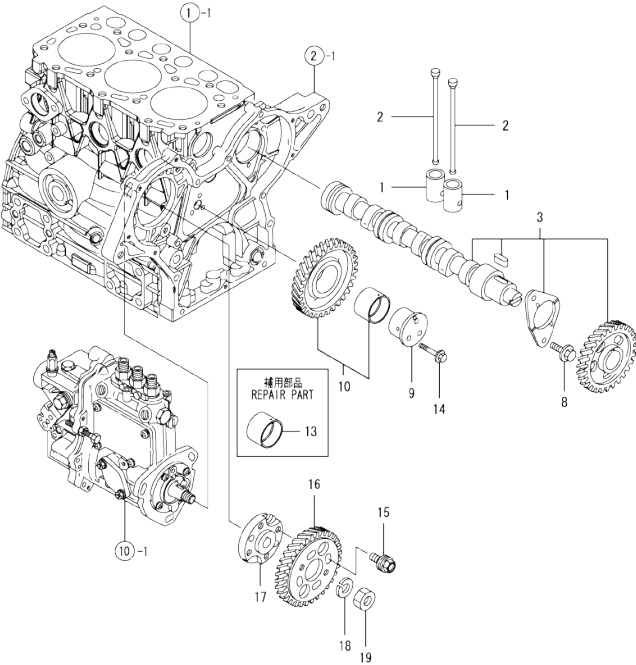
0CD11-M04100 Fig.5

(A)=3TNV70-NTB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119718-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET	1							
3	1	119717-13600	STUD, M8X50	2							
4	1	119802-13620	BOLT, M8X50	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	119540-12540	ELBOW	1							
8	1	119540-12550	FLANGE	1							
9	1	119540-12560	ADAPTER	1							
10	1	126650-12680	INDICATOR	1							
11	1	103954-13201	GASKET, SILENCER	1							
12	1	119515-13200	GASKET, SILENCER	2							
13	1	119515-13550	SILENCER	1							
14	1	119540-12530	CLEANER ASSY, AIR	1							
15	2	119515-12520	ELEMENT	1							
16	2	119808-12540	VALVE, UNLOADER	1							
17	2	119686-12570	COVER ASSY	1							
18	2	105027-12580	RING	1							
19	2	121820-12590	NIPPLE	1							

Fig.6. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

(A)=3TNV70-NTB
(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	6							
2	1	119515-14400	ROD, PUSH	6							
3	1	119515-14581	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	119717-25911	BUSH, IDLE GEAR	1							1
14	1	26106-060352	BOLT, M6X 35 PLATED	3							
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



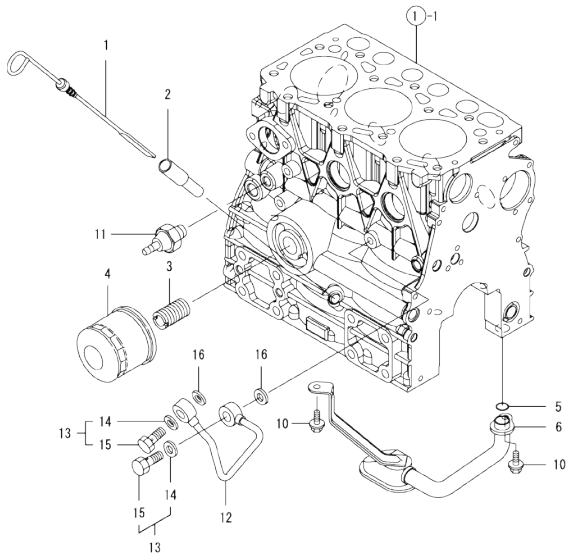
Remarks
(1) REPAIR PART.
(2) OVER-SIZED(O.S=0.25)PART.
(3) UNDER-SIZED(U.S=0.25)PART.

Q'tv

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119515-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119717-21200	GEAR, CRANKSHAFT	1							
5	2	22512-040120	KEY, 4X 12	1							
7	1	119620-21500	BOLT, FLYWHEEL	5							
8	1	119740-21590	FLYWHEEL ASSY	1							
10	2	119865-21600	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	3							
16	2	119515-22500	RING SET, PISTON	3							
20	1	119515-22300	PIN, PISTON	3							
21	1	22252-000220	RING, 22	6							
22	1	119515-23000	ROD ASSY, CONNECTING	3							
25	2	119717-23200	BOLT, CONNECTING ROD	6							
26	2	119515-23601	BEARING, CRANK PIN	3							
28	1	119717-23910	BEARING, PISTON PIN	3							
29	1	119515-22900	PISTON ASSY, 0.25 OS	3							1
31	2	119515-22550	RING SET, 0.25 OS	3							2
35	1	119515-23611	METAL ASSY, 0.25	3							

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.8. LUB.OIL SYSTEM



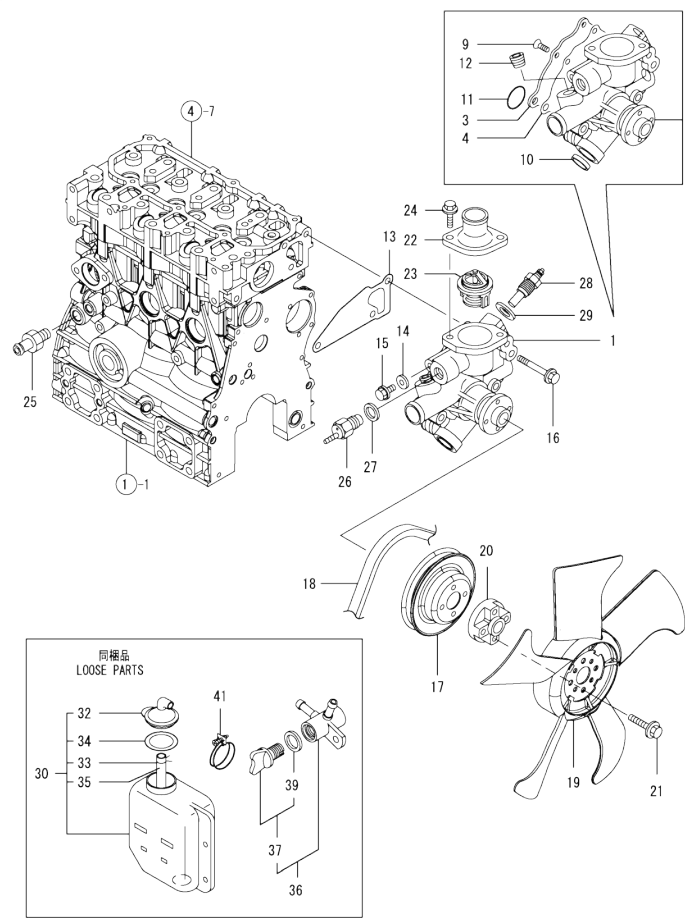
Remarks
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(B)=
(C)=

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

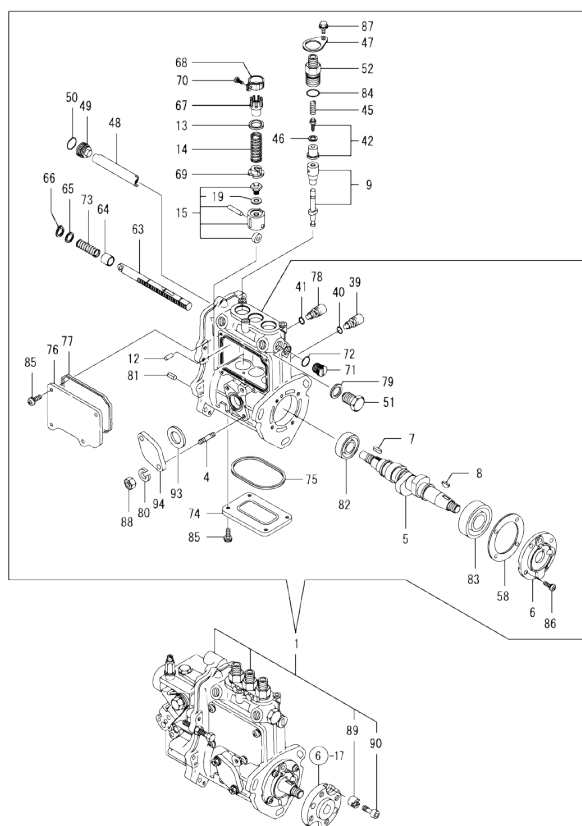
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	129100-35140	STUD	1							
4	1	119305-35151	FILTER ASSY, D68XL65	1							1
5	1	119717-32060	O-RING, P15.0	1							
6	1	119515-35080	PIPE ASSY, OIL INLET	1							
10	1	26106-060102	BOLT, M6X 10 PLATED	2							
11	1	114250-39450	SWITCH, 0.5KG	1							
12	1	119717-39210	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							

Fig.9. COOLING WATER SYSTEM



										OCD11-M04100 Fig.9	
										(A)=3TNV70-NTB (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/ 85882)											
1-2	1	119C10-42001	PUMP ASSY, CW	1						N	
(A=EK8213)											
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							
10-1	2	119717-42050	PLUG, 25	1						N	
(A=EK8213)											
11	2	119717-42320	O-RING, P26	1							
11-1	2	119C10-42320	O-RING, 2028	1						S	
(A=E/ 85882)											
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	119515-42350	V-PULLEY, D=110	1							
18	1	25152-003500	V-BELT, A35	1							
19	1	129335-44740	FAN, COOLING D335	1							
20	1	121267-44760	SPACER, FAN	1							
21	1	26106-060302	BOLT, M6X 30 PLATED	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	119718-49800	THERMOSTAT, 82	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	2							
25	1	121550-49111	JOINT, PT1/4	1							
26	1	121250-44901	SWITCH, THERMO 110	1							
27	1	124465-44950	GASKET, 16	1							
28	1	119266-49350	SENSOR, WATER TEMP.	1							
29	1	129150-49360	GASKET	1							
30	1	121468-44520	TANK ASSY, SUB	1							
32	2	121450-44531	CAP	1							
33	2	124450-44560	CLAMP, HOSE	1							
34	2	121470-44581	GASKET	1							
35	2	23065-070130	PIPE, 7X 130	1							
36	1	129150-49100	COCK ASSY, 3-WAY	1							
37	2	129150-49080	COCK, DRAIN	1							
39	3	119629-49080	GASKET	1							
41	1	23010-038000	CLAMP, 38	4							

Fig.10. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.11) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

0CD11-M04100 Fig.10

(A)=3TNV70-NTB
(B)=
(C)=

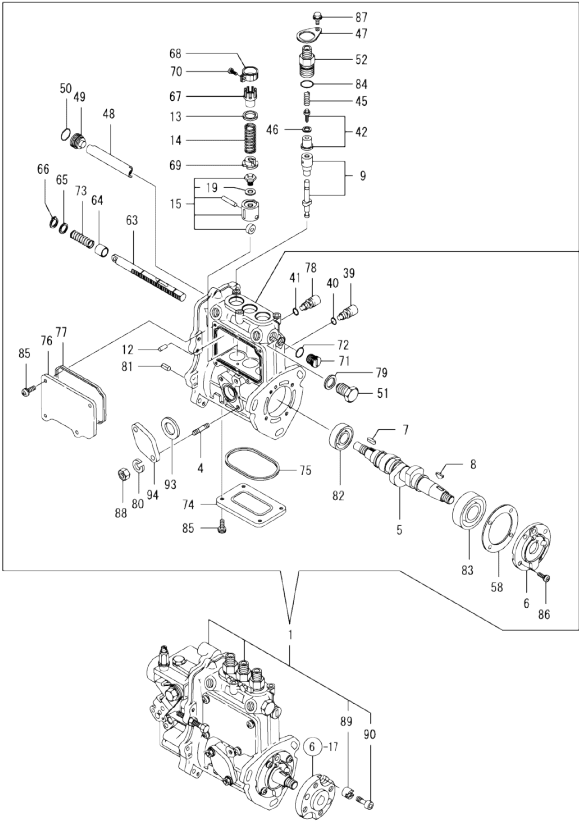
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	719540-51480	PUMP ASSY, INJECTION	1					
4	2	129155-51020	STUD	2					
5	2	119717-51030	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	3					
12	2	129155-51140	PIN	3					
13	2	158600-51170	RETAINER, SPRING	3					
14	2	119717-51190	SPRING, PLUNGER	3					
15	2	119717-51200	TAPPET ASSY	3					
19	3	129155-51600	SHIM SET, ADJUSTING	3					
39	2	158600-51270	STOPPER, TAPPET	3					
40	2	129155-51280	O-RING, S6	3					
41	2	129155-51280	O-RING, S6	1					
42	2	119717-51300	VALVE ASSY, DELIVERY	3					
45	2	119717-51330	SPRING, DELIVERY	3					
46	2	124550-51350	GASKET, DELIVERY	3					
47	2	118400-51370	LOCKING	3					
48	2	129155-51400	DEFLECTOR	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	3					
58	2	129155-51450	SHIM SET, ADJUSTING	1					
63	2	119717-51500	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	3					
68	2	129100-51560	PINION	3					
69	2	119717-51570	RETAINER, SPRING	3					
70	2	129100-51570	SCREW	3					
71	2	158600-51570	PLUG	1					
72	2	129155-51580	O-RING	1					
73	2	129155-51591	SPRING, RACK	1					
74	2	129155-51701	COVER	1					
75	2	119717-51711	GASKET	1					
76	2	119717-51750	COVER	1					
77	2	119717-51761	GASKET	1					
78	2	158600-51790	STOOPER, RACK	1					
79	2	22190-160002	WASHER, SEAL 16	1					
80	2	22217-060000	WASHER, SPRING 6	2					
81	2	22351-050010	PIN, SPRING 5.0X10	2					
82	2	24101-060034	BEARING, BALL 6003	1					
83	2	24101-063034	BEARING, BALL 6303	1					
84	2	24316-000150	O-RING, 4DP15.0	3					
85	2	26022-050122	SCREW, M5X12	8					
86	2	26022-060162	SCREW, M6X16	4					
87	2	26106-050102	BOLT, M5X 10 PLATED	3					
88	2	26716-060002	NUT, M6	2					

N:Old $\xrightarrow{\text{Yes}}$ New, Q:Old $\xrightarrow{\text{No}}$ New, R:Old $\xrightarrow{\text{Yes}}$ New, S:Old $\xrightarrow{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++ Copyright (C) YANMAR GLOBAL CS CO., LTD. All Rights Reserved.

OCD11-M04100 3TNV70-NTB

Fig.10. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.11) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

OCD11-M04100 Fig.10

(A)=3TNV70-NTB
(B)=
(C)=

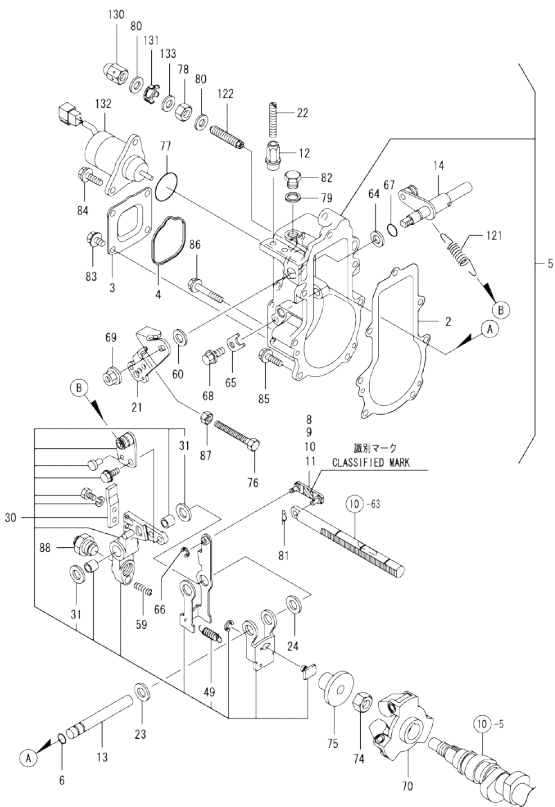
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
89	2	119717-51480	COLLAR	1							
90	2	119717-51490	BOLT	1							
93	2	129155-52051	GASKET	1							
94	2	129100-52200	COVER	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{RIS}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{RIS}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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OCD11-M04100 3TNV70-NTB

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).

OCD11-M04100 Fig.11

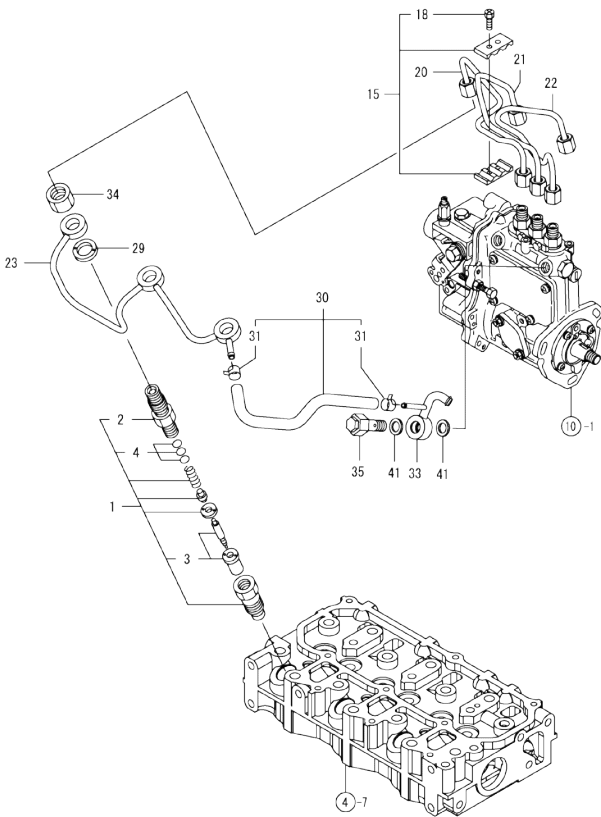
(A)=3TNV70-NTB
(B)=
(C)=

(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	119717-61100	CASE ASSY, GOVERNOR	1							
6	3	129155-51280	O-RING, S6	1							
8	3	119717-61120	LINK, MARK :3	1							1
9	3	119717-61130	LINK, MARK 98	1							1
10	3	119717-61140	LINK, MARK 88	1							1
11	3	119717-61150	LINK, MARK 03	1							1
12	3	129209-61370	NUT, M6	1							
13	3	129052-61390	SHAFT	1							
14	3	119717-61400	SHAFT ASSY	1							
21	3	119515-61440	LEVER, CONTROL	1							
22	3	129155-61450	BOLT, LIMITER	1							
23	3	129156-61460	SHIM, T=0.6	1							
24	3	129155-61480	SPACER ASSY	1							
30	3	119717-61500	LEVER ASSY, GOVERNOR	1							
31	4	174307-51700	SHIM SET	2							
49	4	129486-61540	SPRING, SET	1							
59	3	129100-61650	SPRING, CONTROLLER	1							
60	3	158552-61700	SHIM SET	1							
64	3	158552-61710	SHIM, T=1.0	1							
65	3	119660-61901	RETAINER, SHAFT	1							
66	3	22272-000030	RING, E- 3	1							
67	3	24341-000070	O-RING, 1AS7.0	1							
68	3	26106-060102	BOLT, M6X 10 PLATED	1							
69	3	26366-080002	NUT, M8	1							
70	2	119717-61200	WEIGHT ASSY,GOVERNOR	1							
74	2	129008-61301	NUT	1							
75	2	129155-61341	SLEEVE	1							
76	2	129155-61460	BOLT, IDLE	1							
77	2	158552-61900	O-RING	1							
78	2	129209-61920	NUT, ARB	1							
79	2	22190-100002	WASHER, SEAL 10	1							
80	2	22190-120002	WASHER, SEAL 12	2							
81	2	22372-040000	PIN, SNAP 4	1							
82	2	23887-100002	PLUG, 10	1							
83	2	26106-060102	BOLT, M6X 10 PLATED	4							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060202	BOLT, M6X 20 PLATED	4							
86	2	26106-060452	BOLT, M6X 45 PLATED	3							
87	2	26756-060002	NUT, LOCK M6	1							
88	2	119515-61550	ANGLEICH ASSY	1							
121	2	119718-61700	SPRING, GOVERNOR	1							
122	2	158601-61740	LIMITER ASSY, FUEL	1							
130	2	129209-61930	NUT, CAP	1							
131	2	129209-61970	PLATE	1							
132	2	119233-77932	SOLENOID, STOP	1							
133	2	23414-120016	GASKET, 12X1.0	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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Fig.12. FUEL INJECTION VALVE



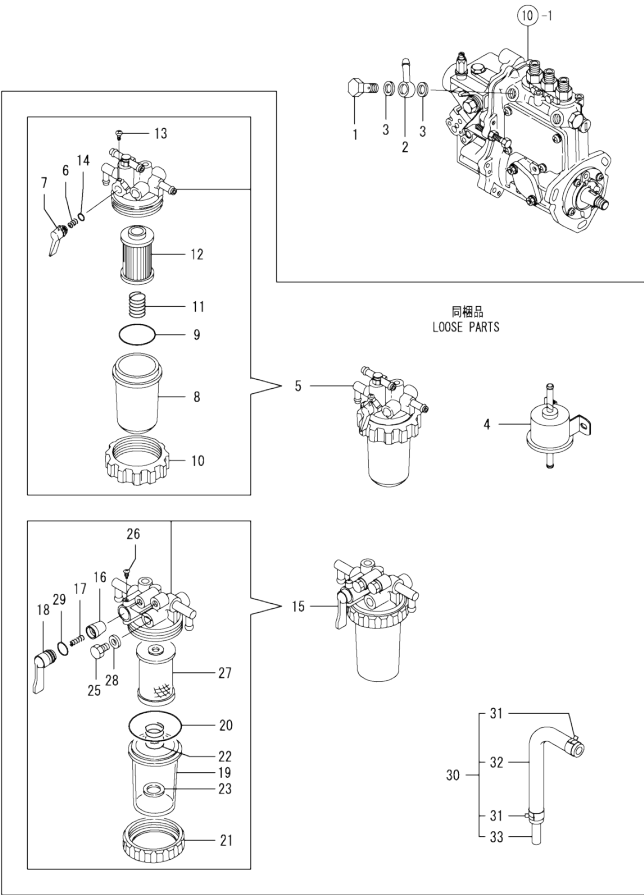
Remarks
(1) REPAIR PART.

(A)=3TNV70-NTB
(B)=
(C)=

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

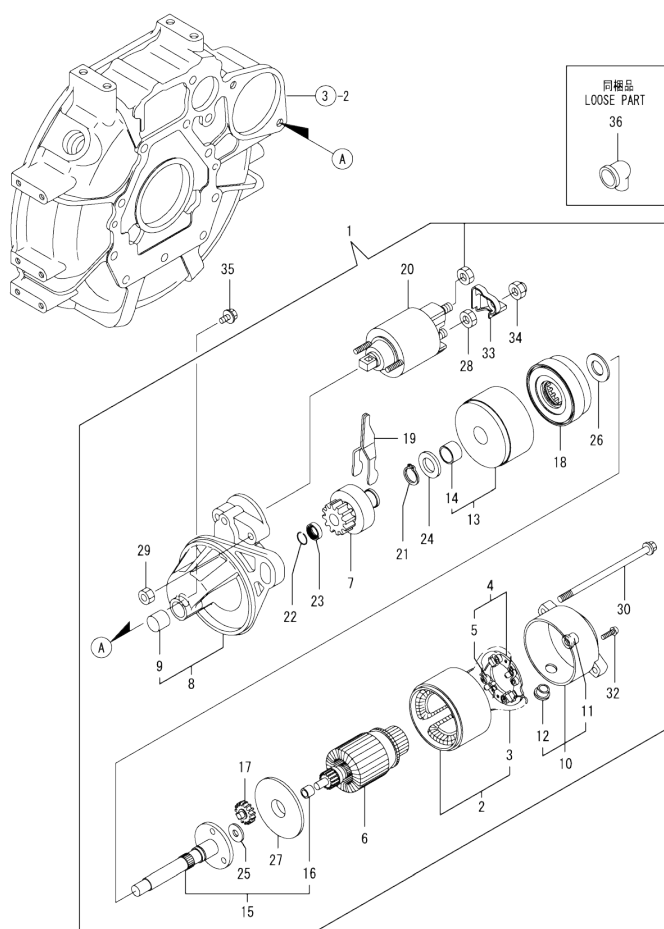
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	3							
2	2	118200-53010	HOLDER, NOZZLE	3							
3	2	119515-53010	VALVE ASSY,INJECTION	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							1
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119546-59810	PIPE ASSY, INJECTION	1							
21	1	119546-59820	PIPE ASSY, INJECTION	1							
22	1	119546-59830	PIPE ASSY, INJECTION	1							
23	1	119515-59540	PIPE ASSY, RETURN	1							
29	1	129901-59560	GASKET	3							
30	1	119744-59560	PIPE ASSY, RETURN	1							
31	2	124066-59100	CLIP, HOSE 8	2							
33	1	119515-59581	JOINT, OVER FLOW	1							
34	1	119620-59700	NUT, NOZZLE	3							
35	1	119813-59950	VALVE ASSY, CHECK	1							
41	1	22190-120002	WASHER, SEAL 12	2							

Fig.13. FUEL FILTER



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	129612-52100	PUMP ASSY, FUEL FEED	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	119840-59601	BEND	1							
31	2	124766-59050	CLIP, HOSE 12	2							
32	2	119840-59611	BEND	1							
33	2	119840-59621	JOINT	1							

Fig.14. STARTING MOTOR



(A)=3TNV70-NTB
(B)=
(C)=

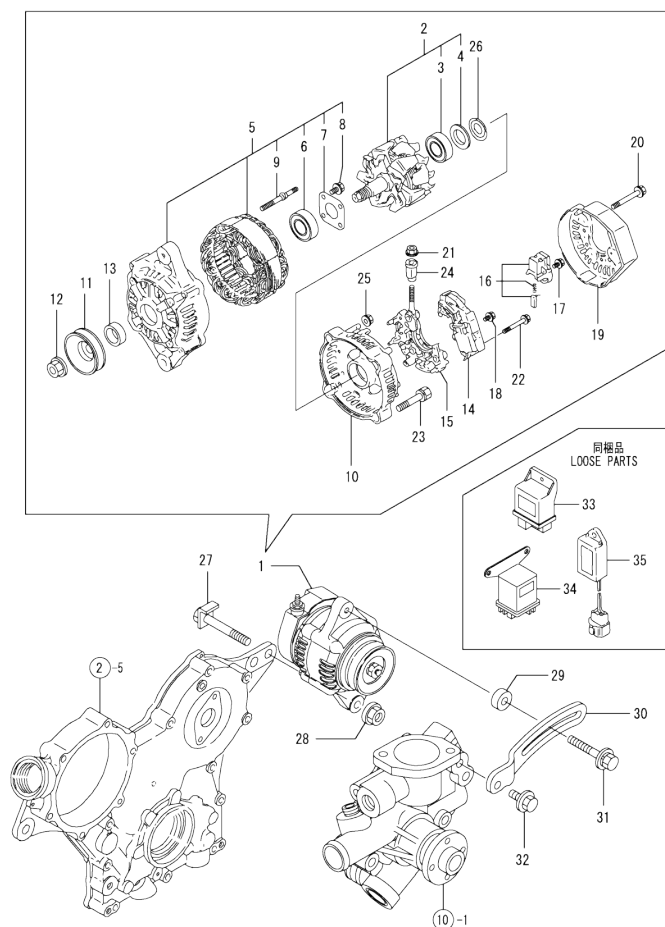
(D)=
(E)=
(F)=

Q

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-77010	STARTER	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	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							
36	1	124160-77020	COVER, TERMINAL	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

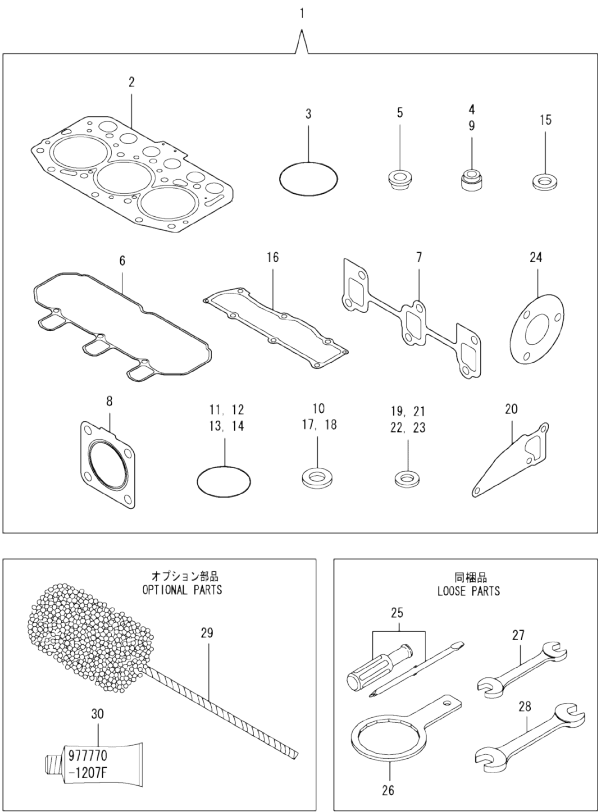
Fig.15. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129240-77200	ALTERNATOR	1							
2	2	119620-77380	ROTOR ASSY	1							
3	3	123501-79240	BEARING, BALL	1							
4	3	119620-79250	COVER	1							
5	2	119620-77421	FRAME ASSY, DRIVE	1							
6	3	119620-79200	BEARING, BALL	1							
7	3	119620-79210	PLATE, RETAINER	1							
8	3	119620-79220	SCREW	4							
9	3	119620-79230	STUD	2							
10	2	119620-77440	FRAME ASSY	1							
11	2	119620-77461	PULLEY	1							
12	2	119620-77471	NUT	1							
13	2	119620-77490	COLLAR	1							
14	2	129240-77710	REGULATOR ASSY	1							
15	2	119620-79260	HOLDER	1							
16	2	129052-79270	HOLDER, BRUSH	1							
17	2	119620-79290	SCREW	6							
18	2	119620-79300	SCREW	1							
19	2	129240-79300	COVER	1							
20	2	119620-79310	BOLT	3							
21	2	129240-79310	NUT	1							
22	2	119620-79320	SCREW	2							
23	2	119620-79330	BOLT	2							
24	2	119620-79340	BUSH, INSULATION	1							
25	2	119620-79350	NUT	2							
26	2	119620-79360	WASHER, THRUST	1							
27	1	119740-77250	BOLT, M10X76	1							
28	1	26306-100002	NUT, M10	1							
29	1	119940-77270	SPACER, GENERATOR	1							
30	1	119717-77340	ADJUSTER	1							
31	1	129972-77341	BOLT, ADJUSTER L=50	1							
32	1	26106-080202	BOLT, M8X 20 PLATED	1							
33	1	119802-77200	RELAY, SAFETY	1							
34	1	119646-77900	RELAY, POWER	1							
35	1	129211-77920	TIMER	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.16. GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-92650	GASKET SET	1							1
2	2	119515-01330	GASKET, HEAD	1							
3	2	121850-51960	O-RING	1							
4	2	119717-11340	SEAL, VALVE STEM	3							
5	2	129901-11450	PROTECTOR, NOZZLE	3							
6	2	119515-11310	GASKET, BONNET	1							
7	2	119717-13110	GASKET	1							
8	2	119515-13200	GASKET, SILENCER	2							
9	2	119717-11350	SEAL, VALVE STEM	3							
10	2	22190-080002	WASHER, SEAL 6	4							
11	2	24311-000320	O-RING, 1AP32.0	2							
12	2	119717-32060	O-RING, P15.0	1							
13	2	119624-32040	O-RING, P12.0	1							
14	2	119717-32050	O-RING, P17.0	3							
15	2	119600-11460	GASKET, NOZZLE	6							
16	2	119515-11330	GASKET	1							
17	2	22190-160002	WASHER, SEAL 16	1							
18	2	22190-120002	WASHER, SEAL 12	4							
19	2	129901-59560	GASKET	3							
20	2	119515-42020	GASKET, WATER PUMP	1							
21	2	23414-080000	GASKET, 8X1.0	1							
22	2	124465-44950	GASKET, 16	1							
23	2	129150-49360	GASKET	1							
24	2	103954-13201	GASKET, SILENCER	1							
25	1	104200-92350	DRIVER, SCREW	1							
26	1	119332-92751	WRENCH, FILTER 68	1							
27	1	28110-100120	SPANNER, 10X12	1							
28	1	28110-140170	SPANNER, 14X17	1							
29	1	129400-92410	HONE	1							1
30	1	977770-1207F	GASKET,LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.
101304-59020	13	2	119515-13200	16	8	119620-79200	15	6	119717-25101	6	10
101720-55750	13	25	119515-13550	5	13	119620-79210	15	7	119717-25911	6	13
102103-55520	13	9	119515-14400	6	2	119620-79220	15	8	119717-25930	6	16
		20	119515-14581	6	3	119620-79230	15	9	119717-32050	2	19
103854-39140	13	1	119515-21700	7	1	119620-79250	15	4		16	14
103954-13201	5	11	119515-22080	7	14	119620-79260	15	15	119717-32060	8	5
	16	24	119515-22300	7	20	119620-79290	15	17		16	12
104200-55321	13	16	119515-22500	7	16	119620-79300	15	18	119717-32080	2	9
104200-55330	13	6	119515-22550	7	31	119620-79310	15	20	119717-32100	2	8
		17	119515-22900	7	29	119620-79320	15	22	119717-32110	2	13
104200-55341	13	18	119515-23000	7	22	119620-79330	15	23	119717-32120	2	14
104200-55750	13	13	119515-23601	7	26	119620-79340	15	24	119717-39210	8	12
		26	119515-23611	7	35	119620-79350	15	25	119717-42031	9	4
104200-92350	16	25	119515-34801	8	1	119620-79360	15	26	119717-42050	9	10
105010-11490	4	6	119515-35080	8	6	119621-21680	7	12	119717-42320	9	11
105027-12580	5	18	119515-42020	9	13	119623-01250	1	5	119717-51030	10	5
105311-01090	1	4		16	20	119624-32040	2	18	119717-51060	10	6
105425-01690	3	9	119515-42041	9	3		16	13	119717-51070	10	7
110250-55610	13	10	119515-42350	9	17	119629-49080	9	39	119717-51150	6	17
		21	119515-51100	10	9	119646-77900	15	34	119717-51190	10	14
114250-39450	8	11	119515-53001	12	1	119660-01911	2	17	119717-51200	10	15
118200-53010	12	2	119515-53010	12	3	119660-61901	11	65	119717-51300	10	42
118400-51370	10	47	119515-59540	12	23	119686-12570	5	17	119717-51330	10	45
119131-18320	5	5	119515-59581	12	33	119717-01501	2	1	119717-51420	10	50
119233-77932	11	132	119515-61440	11	21	119717-01521	2	5	119717-51480	10	89
119266-49350	9	28	119515-61550	11	88	119717-01570	2	2	119717-51490	10	90
119285-01990	1	6	119515-77010	14	1	119717-01601	3	2	119717-51500	10	63
119285-11990	4	12	119540-07920	4	2	119717-01750	2	16	119717-51570	10	69
119305-35151	8	4	119540-12530	5	14	119717-01800	2	6	119717-51711	10	75
119332-92751	16	26	119540-12540	5	7	119717-02411	1	10	119717-51750	10	76
119515-01200	1	29	119540-12550	5	8	119717-02930	1	23	119717-51761	10	77
119515-01330	1	30	119540-12560	5	9	119717-03031	4	38	119717-61050	11	2
	16	2	119540-42000	9	1	119717-03070	4	39	119717-61060	11	3
119515-01720	3	7	119546-59810	12	20		4	40	119717-61070	11	4
119515-01770	3	8	119546-59820	12	21	119717-11131	4	16	119717-61100	11	5
119515-11101	4	14	119546-59830	12	22	119717-11190	4	18	119717-61120	11	8
119515-11110	4	15	119600-11460	4	5	119717-11260	4	27	119717-61130	11	9
119515-11200	4	23		16	15	119717-11340	4	19	119717-61140	11	10
119515-11240	4	24	119620-01750	3	4		16	4	119717-61150	11	11
119515-11280	4	28	119620-02020	1	7	119717-11350	4	20	119717-61200	11	70
119515-11310	4	47	119620-14200	6	1		16	9	119717-61400	11	14
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