

0CD10-M85900EN

P R E F A C E

1. This parts catalog is the 1st edition of 2TNV70-PTB, 2TNV70-PTBT for Takeuchi Mfg. Co., Ltd.

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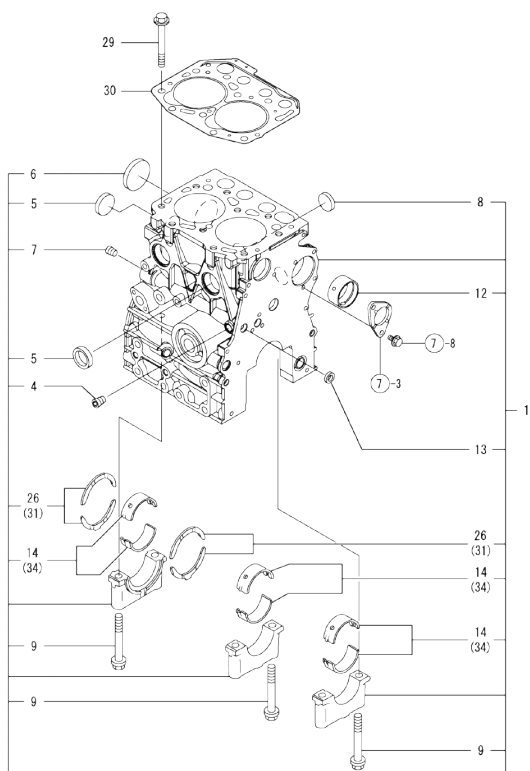
2. Model name

Engine model	Vehicle	Vehicle made by
2TNV70-PTB 2TNV70-PTBT	EXCAVATOR	Takeuchi Mfg. Co., Ltd.

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Fig.1. CYLINDER BLOCK



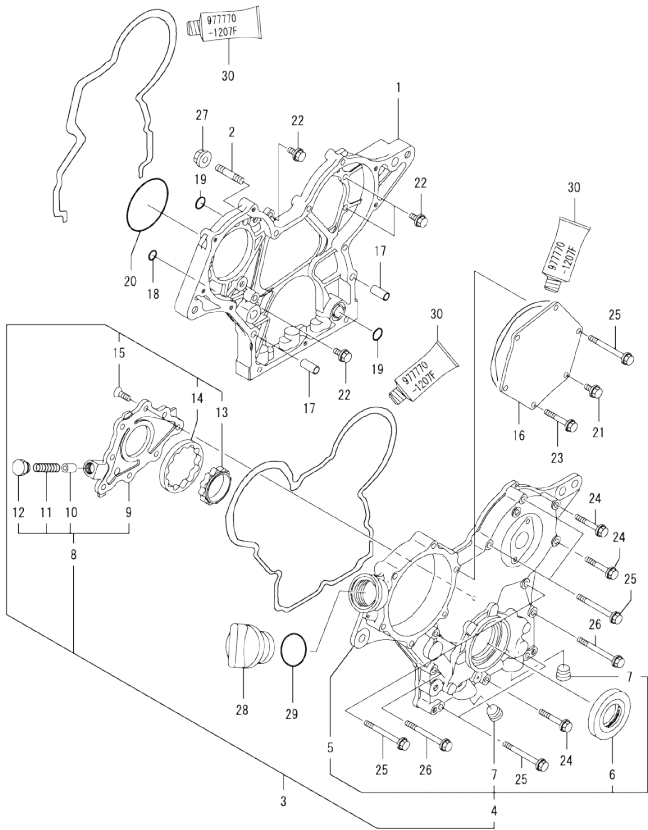
Remarks
(1) REPAIR PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) UNDER-SIZE(U.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-01560	BLOCK ASSY, CYLINDER	1	1						
4	2	124060-01050	PLUG, PT1/8	1	1						
5	2	105311-01090	PLUG, 30	3	3						
6	2	119623-01250	PLUG, 45	1	1						
7	2	124160-01910	PLUG, PT1/4	1	1						
8	2	119285-01990	PLUG, 25	2	2						
9	2	119620-02020	BOLT, METAL CAP	6	6						
12	2	119717-02410	BUSH, CAMSHAFT	1	1						
13	2	27241-120000	PLUG, 12	1	1						
14	2	719717-02900	BEARING, MAIN	3	3						1
26	2	719717-02930	BEARING, THRUST	2	2						
29	1	119515-01200	BOLT, HEAD	10	10						
30	1	119415-01330	GASKET, HEAD	1	1						
31	1	119810-02940	BEARING, THRUST 0.25	2	2						2
34	1	719717-02910	BEARING, 0.25 US	3	3						

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

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Fig.2. GEAR HOUSING



(A)=2TNV70-PTB
(B)=2TNV70-PTBT
(C)=

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

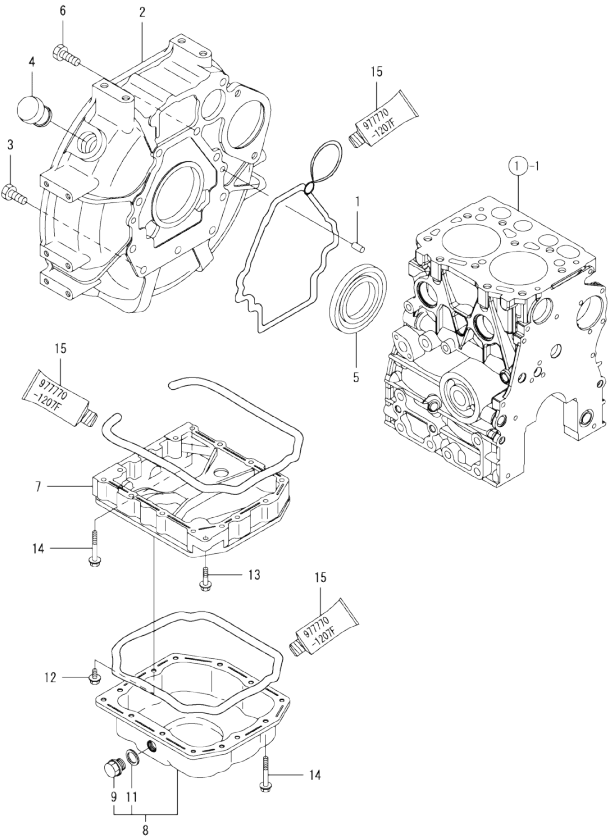
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1	1						
2	1	119717-01570	STUD	3	3						
3	1	119734-01590	COVER ASSY,GEAR CASE	1	1						
4	2	719734-01500	COVER ASSY,GEAR CASE	1	1						
5	3	119717-01521	COVER, GEAR CASE	1	1						
6	3	119717-01800	SEAL, OIL	1	1						
7	3	23876-030000	PLUG, R03	2	2						
8	2	119717-32100	COVER ASSY	1	1						
9	3	119717-32080	COVER	1	1						
10	3	129900-32130	VALVE, RELIEF	1	1						
11	3	129001-32320	SPRING	1	1						
12	3	129001-32330	PLUG	1	1						
13	2	119717-32110	ROTOR, INNER	1	1						
14	2	119717-32120	ROTOR, OUTER	1	1						
15	2	119802-32130	SCREW, M6X16	8	8						
16	1	119717-01750	COVER	1	1						
17	1	119660-01911	PIPE, KNOCK	2	2						
18	1	119624-32040	O-RING, P12.0	1	1						
19	1	119717-32050	O-RING, P17.0	3	3						
20	1	121850-51960	O-RING	1	1						
21	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
22	1	26106-060162	BOLT, M6X 16 PLATED	4	4						
23	1	26106-060402	BOLT, M6X 40 PLATED	4	4						
24	1	26106-060402	BOLT, M6X 40 PLATED	3	3						
25	1	26106-060602	BOLT, M6X 60 PLATED	7	7						
26	1	26106-060652	BOLT, M6X 65 PLATED	2	2						
27	1	26306-080002	NUT, M8	3	3						
28	1	124160-01751	COVER, FILLER	1	1						
29	1	24311-000320	O-RING, 1AP32.0	1	1						
30	1	977770-1207F	GASKET,LIQUID	1	1						1

Remarks
(1) OPTIONAL PART.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{HIS}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.3. FLYWHEEL HOUSING & OIL SUMP



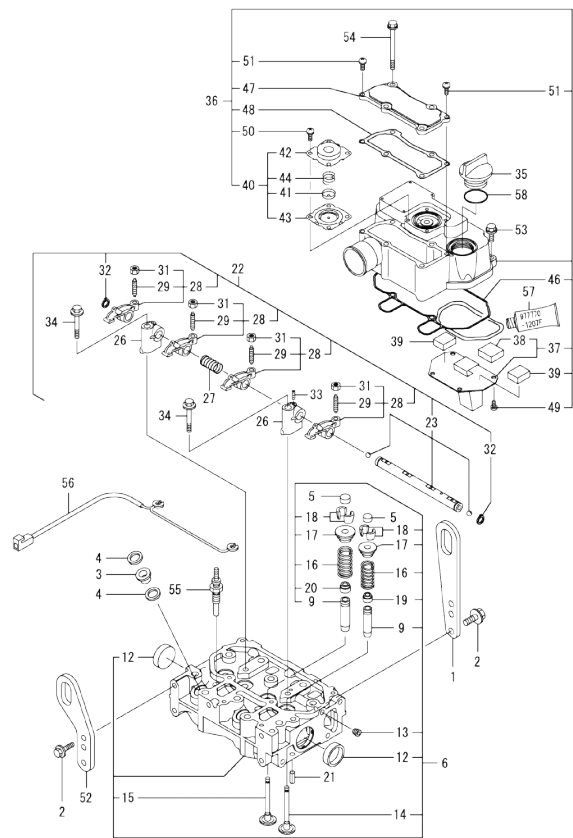
Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2	2						
2	1	119515-01601	HOUSING, FLYWHEEL	1	1						
3	1	121120-01620	BOLT, M10X28	3	3						
4	1	119620-01750	CAP	1	1						
5	1	124085-02220	SEAL, OIL	1	1						
6	1	26206-100252	BOLT, M10X 25 PLATED	7	7						
7	1	119415-01720	SPACER, OIL SUMP	1	1						
8	1	119415-01770	SUMP ASSY, OIL	1	1						
9	2	105425-01690	PLUG, 16	1	1						
11	2	22190-160002	WASHER, SEAL 16	1	1						
12	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
13	1	26106-060252	BOLT, M6X 25 PLATED	1	1						
14	1	26106-060452	BOLT, M6X 45 PLATED	13	13						
15	1	977770-1207F	GASKET,LIQUID	1	1						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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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.
(2) OPTIONAL PART.

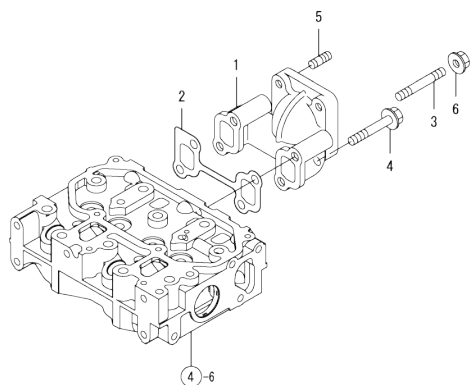
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER	1	1						
2	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
3	1	129901-11450	PROTECTOR, NOZZLE	2	2						
4	1	119600-11460	GASKET, NOZZLE	4	4						
5	1	105010-11490	CAP, VALVE	4	4						
6	1	119415-11740	HEAD ASSY, CYLINDER	1	1						
9	2	119515-11800	GUIDE, VALVE	4	4						1
12	2	119285-11990	PLUG, 35	2	2						
13	2	23876-005000	PLUG, R005	1	1						
14	2	119515-11100	VALVE, INTAKE	2	2						
15	2	119515-11110	VALVE, EXHAUST	2	2						
16	2	119717-11131	SPRING, VALVE	4	4						
17	2	129508-11180	RETAINER, SPRING	4	4						
18	2	119717-11190	COTTER	8	8						
19	2	119717-11340	SEAL, VALVE STEM	2	2						
20	2	119717-11350	SEAL, VALVE STEM	2	2						
21	1	22351-060012	PIN, SPRING 6.0X12	2	2						
22	1	119415-11200	SUPPORT ASSY, ARM	1	1						
23	2	119415-11240	SHAFT ASSY, ROCKER	1	1						
26	2	119717-11260	SUPPORT, ROCKER ARM	2	2						
27	2	119515-11280	SPRING	1	1						
28	2	119717-11650	ARM, ROCKER	4	4						
29	3	129150-11230	SCREW, VALVE ADJUST	4	4						
31	3	129150-11750	NUT, M8	4	4						
32	2	22242-000120	RING, 12	2	2						
33	2	26979-050162	SCREW, M5X16	1	1						
34	1	26106-080402	BOLT, M8X 40 PLATED	2	2						
35	1	124160-01751	COVER, FILLER	1	1						
36	1	119415-11380	BONNET ASSY, HEAD	1	1						
37	2	119717-03031	PLATE	1	1						
38	3	119717-03070	BAFFLE, BREATHER	1	1						
39	2	119717-03070	BAFFLE, BREATHER	2	2						
40	2	119802-03100	DIAPHRAGM ASSY	1	1						
41	3	119802-03110	PLATE	1	1						
42	3	119802-03121	COVER, DIAPHRAGM	1	1						
43	3	119802-03131	DIAPHRAGM	1	1						
44	3	119802-03141	SPRING, DIAPHRAGM	1	1						
46	2	119415-11310	GASKET, BONNET	1	1						
47	2	119415-11320	COVER, BONNET	1	1						
48	2	119415-11330	GASKET	1	1						
49	2	22857-500100	SCREW, 5X10	4	4						
50	2	22857-500100	SCREW, 5X10	4	4						
51	2	22857-500160	SCREW, 5X16	2	2						
52	1	129486-07901	LIFTER	1	1						
53	1	26106-060202	BOLT, M6X 20 PLATED	2	2						
54	1	26106-060752	BOLT, M6X 75 PLATED	4	4						
55	1	119717-77800	PLUG, GLOW	2	2						
56	1	119415-77820	CONNECTOR, GLOW PLUG	1	1						
57	1	977770-1207F	GASKET LIQUID	1	1						2
58	1	24311-000320	O-RING, 1AP32.0	1	1						

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

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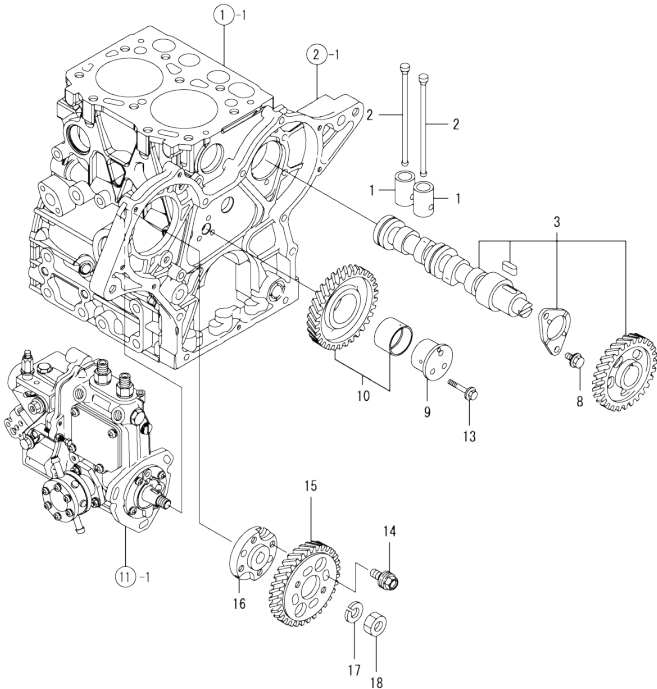
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No.	Lev.	Parts No.	Description	(A)=2TNV70-PTB (B)=2TNV70-PTBT (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119415-13100	MANIFOLD, EXHAUST	1	1						
2	1	119415-13110	GASKET	1	1						
3	1	119717-13600	STUD, M8X50	2	2						
4	1	119802-13620	BOLT, M8X50	2	2						
5	1	119131-18320	STUD, M8X22	4	4						
6	1	26306-080002	NUT, M8	2	2						
7	1	119515-13200	GASKET, SILENCER	1	1						
8	1	119440-13500	SILENCER	1	1						
9	1	129107-13550	GASKET	1	1						

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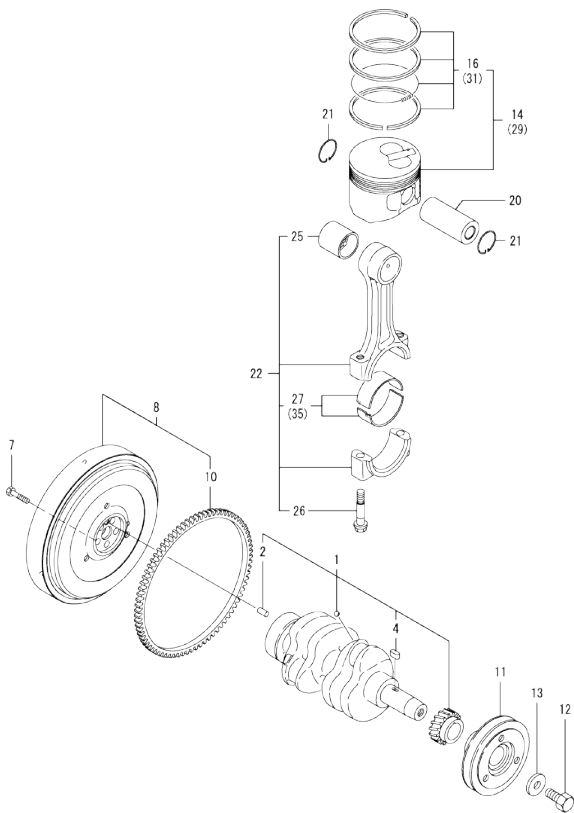
Fig.7. CAMSHAFT & DRIVING GEAR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	4	4						
2	1	119515-14400	ROD, PUSH	4	4						
3	1	119415-14580	CAMSHAFT ASSY	1	1						
8	1	26106-060122	BOLT, M6X 12 PLATED	2	2						
9	1	119717-25050	SHAFT, IDLE	1	1						
10	1	119717-25100	GEAR ASSY, IDLE	1	1						
13	1	26106-060352	BOLT, M6X 35 PLATED	3	3						
14	1	129150-25301	BOLT	4	4						
15	1	119717-25930	GEAR, PUMP	1	1						
16	1	119717-51150	FLANGE	1	1						
17	1	22217-120000	WASHER, SPRING 12	1	1						
18	1	26716-120002	NUT, M12	1	1						

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Fig.8. CRANKSHAFT & PISTON

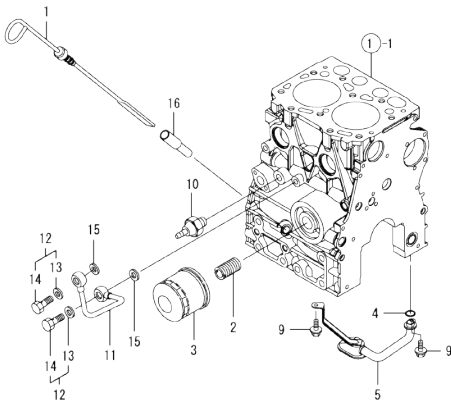


Remarks
(1) REPAIR PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) OVER-SIZE(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119415-21700	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, M8X16	1	1						
4	2	22512-040120	KEY, 4X 12	1	1						
7	1	119620-21500	BOLT, FLYWHEEL	5	5						
8	1	119415-21590	FLYWHEEL ASSY	1	1						
10	2	124950-21600	GEAR, RING	1	1						
11	1	119717-21650	V-PULLEY	1	1						
12	1	119621-21680	BOLT, FLANGE 12X1.25	1	1						
13	1	119620-21941	WASHER	1	1						
14	1	119515-22080	PISTON ASSY	2	2						
16	2	119515-22500	RING SET, PISTON	2	2						
20	1	119515-22300	PIN, PISTON	2	2						
21	1	22252-000220	RING, 22	4	4						
22	1	119515-23000	ROD ASSY, CONNECTING	2	2						
25	2	119717-23910	BEARING, PISTON PIN	2	2						1
26	2	119717-23200	BOLT, CONNECTING ROD	4	4						
27	2	119515-23600	BEARING, CRANK PIN	2	2						
29	1	119515-22900	PISTON ASSY, 0.25 OS	2	2						3
31	2	119515-22550	RING SET, 0.25 OS	2	2						3
35	1	119515-23610	METAL ASSY, 0.25	2	2						2

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Fig.9. LUB.OIL SYSTEM



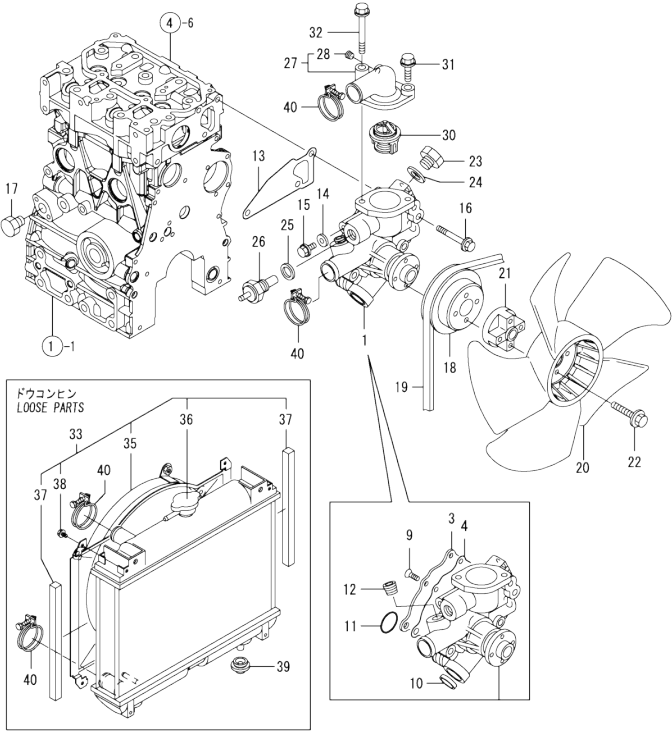
Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	(A)=2TNV70-PTB (B)=2TNV70-PTBT (C)=						Q'ty	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119415-34801	DIPSTICK, OIL	1	1							
2	1	129100-35140	STUD	1	1							
3	1	119305-35151	FILTER ASSY, D68XL65	1	1							1
4	1	119717-32060	O-RING, P15.0	1	1							
5	1	119415-35080	PIPE ASSY, OIL INLET	1	1							
9	1	26106-060102	BOLT, M6X 10 PLATED	2	2							
10	1	114250-39450	SWITCH, 0.5KG	1	1							
11	1	119415-39210	PIPE, OIL	1	1							
12	1	129005-59830	BOLT ASSY, JOINT M8	2	2							
13	2	22190-080002	WASHER, SEAL 6	2	2							
14	2	23857-030000	BOLT, JOINT 3	2	2							
15	1	22190-080002	WASHER, SEAL 6	2	2							
16	1	121520-34810	GUIDE, DIPSTICK	1	1							

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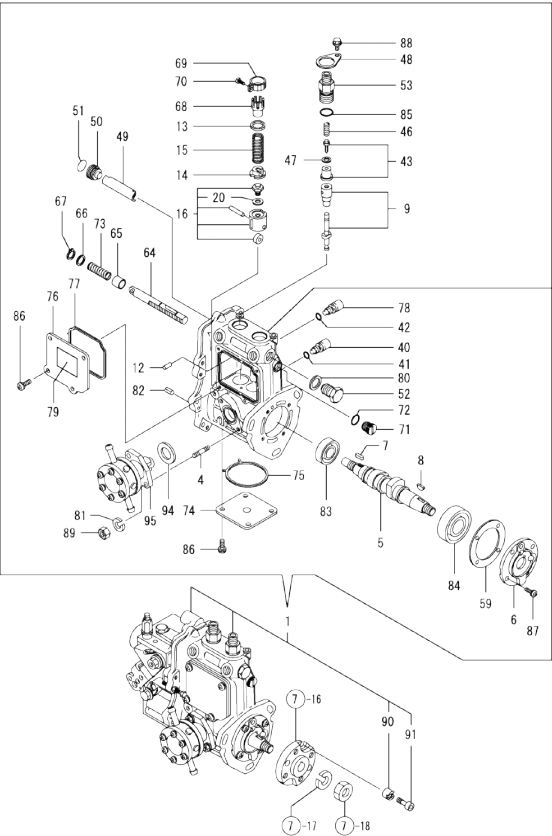
Fig.10. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-42000	PUMP ASSY, WATER	1	1						
1-1	1	119C10-42000	PUMP ASSY, WATER	1	1					N	
(A)=E/ C1052) (B)=E/ C1052)											
3	2	119515-42041	COVER	1	1						
4	2	119717-42031	GASKET	1	1						
9	2	26577-060122	SCREW, M6X12	4	4						
10	2	27241-250000	PLUG, 25	1	1						
11	2	119717-42320	O-RING, P26	1	1						
11-1	2	119C10-42320	O-RING, 2028	1	1					S	
(A)=E/ C1052) (B)=E/ C1052)											
12	2	129916-49740	PLUG, R03	1	1						
13	1	119515-42020	GASKET, WATER PUMP	1	1						
14	1	23414-080000	GASKET, 8X1.0	1	1						
15	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
16	1	26106-080502	BOLT, M8X 50 PLATED	3	3						
17	1	171056-49120	PLUG, DRAIN	1	1						
18	1	119717-42350	V-PULLEY, D=100	1	1						
19	1	25152-003500	V-BELT, A35	1	1						
20	1	119233-44740	FAN, D=290XUH	1	1						
21	1	121267-44760	SPACER	1	1						
22	1	26106-060302	BOLT, M6X 30 PLATED	4	4						
23	1	121450-42450	PLUG, M16	1	1						
24	1	124465-44950	GASKET, 16	1	1						
25	1	129150-49360	GASKET	1	1						
26	1	124250-49351	SENSOR	1	1						
27	1	119609-49520	COVER ASSY	1	1						
28	2	119285-01731	PLUG, NPT1/8	1	1						
30	1	119718-49800	THERMOSTAT, 82	1	1						
31	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
32	1	26106-080602	BOLT, M8X 60 PLATED	1	1						
33	1	119440-44500	RADIATOR ASSY	1	1						
35	2	119325-44571	SHROUD	1	1						
36	2	129107-44590	CAP, RADIATOR	1	1						
37	2	119325-44600	NET, WIRE	2	2						
38	2	26014-060122	BOLT, M6X 12	4	4						
39	1	119255-44660	ABSORBER	2	2						
40	1	23010-038000	CLAMP, 38	4	4						

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Fig.11. FUEL INJECTION PUMP

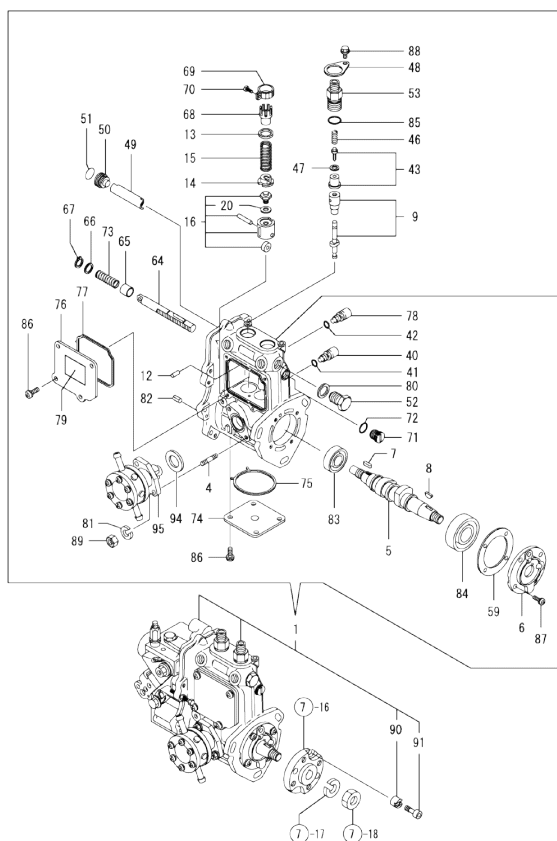


Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719440-51380	PUMP ASSY, INJECTION	1	1						1
4	2	129155-51020	STUD	2	2						
5	2	119415-51030	CAMSHAFT	1	1						
6	2	119717-51060	SUPPORT, CAMSHAFT	1	1						
7	2	119717-51070	KEY	1	1						
8	2	122710-51090	KEY	1	1						
9	2	119515-51100	PLUNGER ASSY	2	2						
12	2	129155-51140	PIN	2	2						
13	2	158600-51170	RETAINER, SPRING	2	2						
14	2	119717-51180	RETAINER, SPRING	2	2						
15	2	119717-51190	SPRING, PLUNGER	2	2						
16	2	119717-51200	TAPPET ASSY	2	2						
20	3	129155-51600	SHIM SET, ADJUSTING	2	2						
40	2	158600-51270	STOPPER, TAPPET	2	2						
41	2	129155-51280	O-RING, S6	2	2						
42	2	129155-51280	O-RING, S6	1	1						
43	2	119717-51300	VALVE ASSY, DELIVERY	2	2						
46	2	119717-51330	SPRING, DELIVERY	2	2						
47	2	124550-51350	GASKET, DELIVERY	2	2						
48	2	118400-51370	LOCKING	2	2						
49	2	119415-51400	PROTECTOR	1	1						
50	2	158600-51410	PLUG, DEFLECTOR	1	1						
51	2	119717-51420	O-RING	1	1						
52	2	158600-51420	PLUG, DEFLECTOR	1	1						
53	2	158600-51441	VALVE ASSY, DELIVERY	2	2						
59	2	129155-51450	SHIM SET, ADJUSTING	1	1						
64	2	119415-51500	RACK, CONTROL	1	1						
65	2	129155-51521	BUSH, RACK	1	1						
66	2	129155-51530	SPACER	1	1						
67	2	129155-51540	CIRCLIP	1	1						
68	2	129155-51550	PINION, CONTROL	2	2						
69	2	129100-51560	PINION	2	2						
70	2	129100-51570	SCREW	2	2						
71	2	158600-51570	PLUG	1	1						
72	2	129155-51580	O-RING	1	1						
73	2	129155-51591	SPRING, RACK	1	1						
74	2	119415-51700	COVER	1	1						
75	2	119415-51710	GASKET	1	1						
76	2	119415-51750	COVER	1	1						
77	2	119415-51760	GASKET	1	1						
78	2	158600-51790	STOOPER, RACK	1	1						
79	2	129156-51910	LABEL, CAUTION	1	1						
80	2	22190-160002	WASHER, SEAL 16	1	1						
81	2	22217-060000	WASHER, SPRING 6	2	2						
82	2	22351-050010	PIN, SPRING 5.0X10	2	2						
83	2	24101-060034	BEARING, BALL 6003	1	1						
84	2	24101-063034	BEARING, BALL 6303	1	1						
85	2	24316-000150	O-RING, 4DP15.0	2	2						
86	2	26022-050122	SCREW, M5X12	8	8						
87	2	26022-060162	SCREW, M6X16	4	4						
88	2	26106-050102	BOLT, M5X 10 PLATED	2	2						

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.11. FUEL INJECTION PUMP



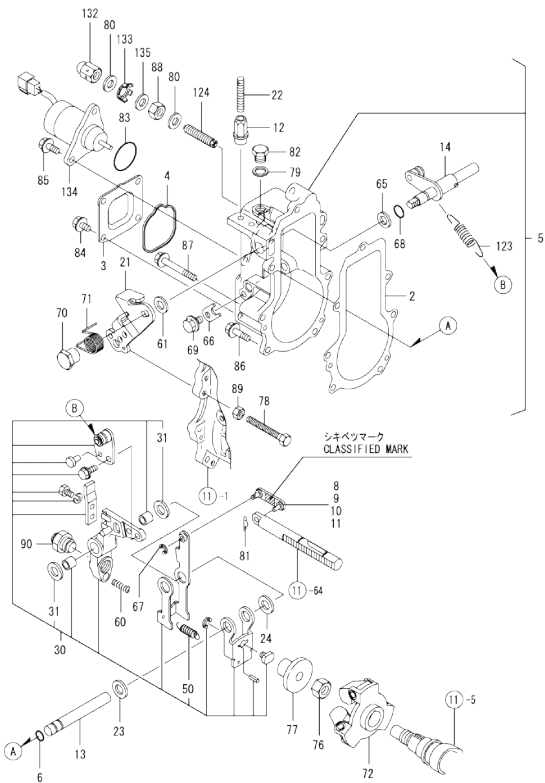
Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

				(A)=2TNV70-PTB (B)=2TNV70-PTBT (C)=	(D)= (E)= (F)=					Q'ty	I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)			
89	2	26716-060002	NUT, M6	2	2							
90	2	119717-51480	COLLAR	1	1							
91	2	119717-51490	BOLT	1	1							
94	2	129155-52051	GASKET	1	1							
95	2	129100-52101	PUMP ASSY, FUEL FEED	1	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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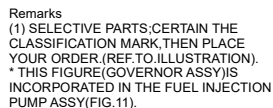
Fig.12. GOVERNOR



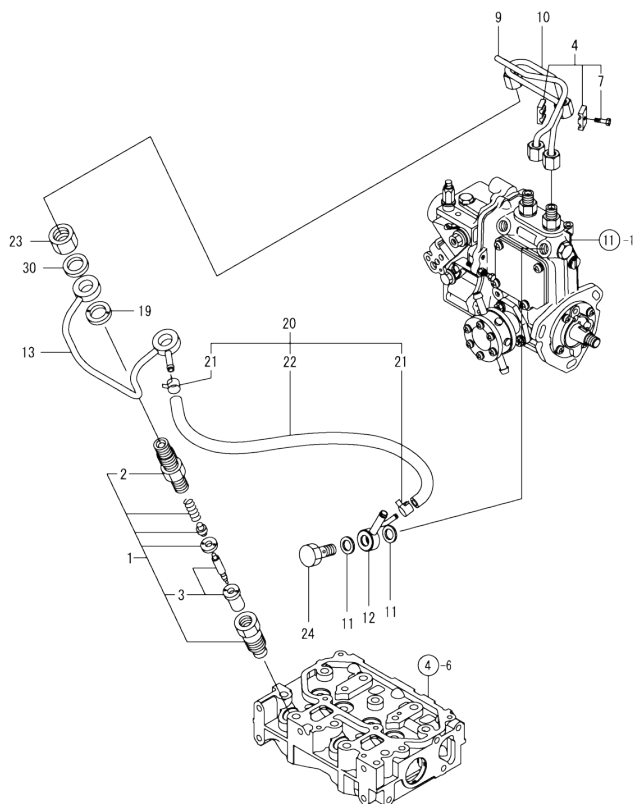
Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER (REF. TO ILLUSTRATION).
* THIS FIGURE (GOVERNOR ASSY) IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY (FIG. 11).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-61050	GASKET	1	1						
3	2	119717-61060	COVER, GOVERNOR CASE	1	1						
4	2	119717-61070	GASKET	1	1						
5	2	119744-61100	CASE ASSY, GOVERNOR	1	1						
6	3	129155-51280	O-RING, S6	1	1						
8	3	119717-61120	LINK, MARK :3	1	1						1
9	3	119717-61130	LINK, MARK 98	1	1						1
10	3	119717-61140	LINK, MARK 88	1	1						1
11	3	119717-61150	LINK, MARK 03	1	1						1
12	3	129209-61370	NUT, M6	1	1						
13	3	129052-61390	SHAFT	1	1						
14	3	119717-61400	SHAFT ASSY	1	1						
21	3	119515-61440	LEVER, CONTROL	1	1						
22	3	129155-61450	BOLT, LIMITER	1	1						
23	3	129156-61460	SHIM, T=0.6	1	1						
24	3	129155-61480	SPACER ASSY	1	1						
30	3	119717-61500	LEVER ASSY, GOVERNOR	1	1						
31	4	174307-51700	SHIM SET	2	2						
50	4	129486-61540	SPRING, SET	1	1						
60	3	129100-61650	SPRING, CONTROLLER	1	1						
61	3	158552-61700	SHIM SET	1	1						
65	3	158552-61710	SHIM, T=1.0	1	1						
66	3	119660-61901	RETAINER, SHAFT	1	1						
67	3	22272-000030	RING, E- 3	1	1						
68	3	24341-000070	O-RING, 1AS7.0	1	1						
69	3	26106-060102	BOLT, M6X 10 PLATED	1	1						
70	3	129255-61410	NUT, LOCK	1	1						
71	3	129255-61420	SPRING, RETURN	1	1						
72	2	119717-61200	WEIGHT ASSY, GOVERNOR	1	1						
76	2	119660-61300	NUT	1	1						
77	2	129155-61341	SLEEVE	1	1						
78	2	129155-61460	BOLT, IDLE	1	1						
79	2	22190-100002	WASHER, SEAL 10	1	1						
80	2	22190-120002	WASHER, SEAL 12	2	2						
81	2	22372-040000	PIN, SNAP 4	1	1						
82	3	23887-100002	PLUG, 10	1	1						
83	2	24341-000280	O-RING, 1AS28.0	1	1						
83-1	2	158552-61900	O-RING	1	1						N
(A)=EXXXXX (B)=EXXXXX											
84	2	26106-060102	BOLT, M6X 10 PLATED	4	4						
85	2	26106-060142	BOLT, M6X 14 PLATED	2	2						
86	2	26106-060202	BOLT, M6X 20 PLATED	4	4						
87	2	26106-060452	BOLT, M6X 45 PLATED	3	3						
88	2	26736-120002	NUT, M12	1	1						
89	2	26756-060002	NUT, LOCK M6	1	1						
90	2	119740-61560	ANGLEICH ASSY	1	1						
123	2	171353-61700	SPRING, GOVERNOR	1	1						
124	2	158601-61790	LIMITER ASSY, FUEL	1	1						
132	2	129209-61930	NUT, CAP	1	1						
133	2	129209-61970	SOLE	1	1						
134	2	119233-77932	PLENOID, STOP	1	1						

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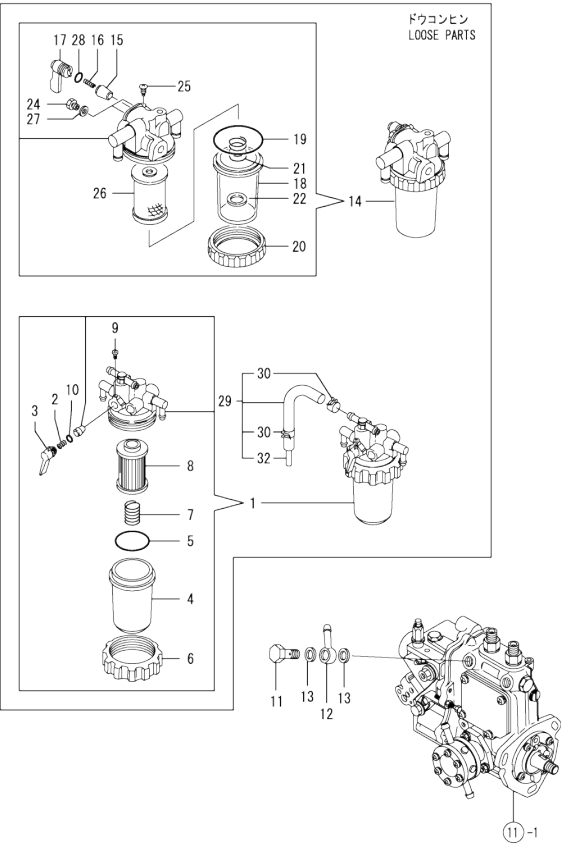
N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change



No.	Lev.	Parts No.	Description	(A)=2TNV70-PTB (B)=2TNV70-PTBT (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	2	2						
2	2	118200-53010	HOLDER, NOZZLE	2	2						
3	2	119515-53010	VALVE ASSY,INJECTION	2	2						
4	1	119305-59120	RETAINER, PIPE	1	1						
7	2	129150-59131	BOLT, M4X14	1	1						
9	1	119415-59810	PIPE ASSY, INJECTION	1	1						
10	1	119415-59820	PIPE ASSY, INJECTION	1	1						
11	1	22190-120002	WASHER, SEAL 12	2	2						
12	1	119840-59570	JOINT	1	1						
13	1	119415-59540	PIPE ASSY, RETURN	1	1						
19	1	129901-59560	GASKET	2	2						
20	1	119540-59570	PIPE ASSY, RETURN	1	1						
21	2	124066-59100	CLIP, HOSE 8	2	2						
22	2	119540-59560	PIPE ASSY, RETURN	1	1						
23	1	119620-59700	NUT, NOZZLE	2	2						
24	1	119813-59950	VALVE ASSY, CHECK	1	1						
30	1	22190-120002	WASHER, SEAL 12	2	2						

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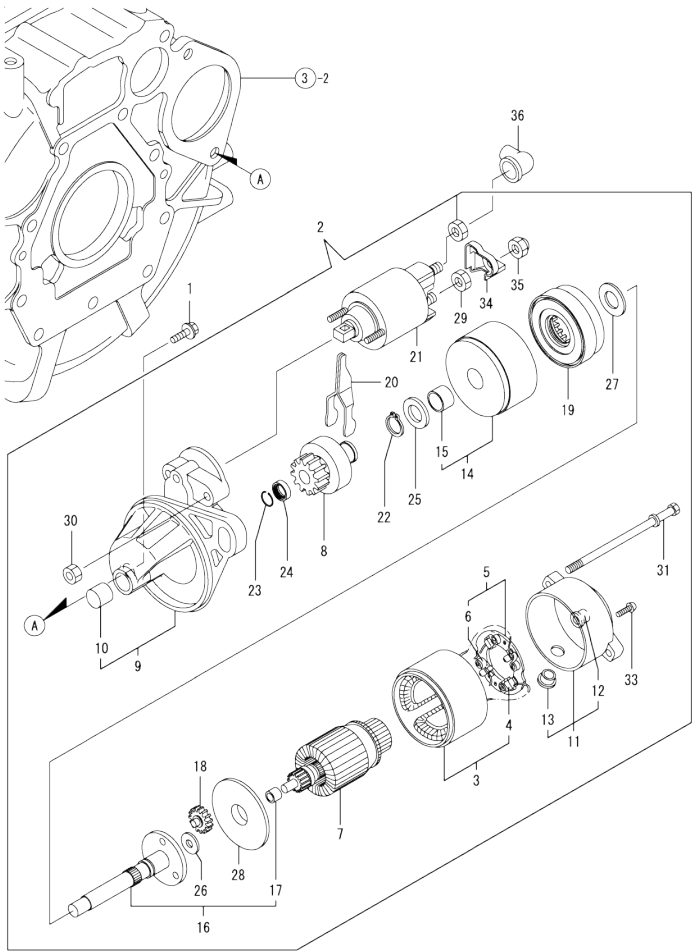
Fig.14. FUEL LINE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119833-55620	FILTER ASSY, FUEL	1	1						
2	2	104200-55330	SPRING, VALVE	1	1						
3	2	119810-55340	LEVER	1	1						
4	2	121254-55510	COVER	1	1						
5	2	102103-55520	O-RING	1	1						
6	2	110250-55610	RING, RETAINING	1	1						
7	2	121250-55620	SPRING	1	1						
8	2	119810-55650	ELEMENT	1	1						
9	2	104200-55750	SCREW, M4	1	1						
10	2	24311-240100	O-RING, 1AP10A	1	1						
11	1	103854-39140	BOLT, PIPE JOINT	1	1						
12	1	101304-59020	JOINT, PIPE 12	1	1						
13	1	22190-120002	WASHER, SEAL 12	2	2						
14	1	129335-55700	SEPARATOR ASSY, WATER	1	1						
15	2	104200-55321	VALVE, TAPER	1	1						
16	2	104200-55330	SPRING, VALVE	1	1						
17	2	104200-55341	HANDLE	1	1						
18	2	124064-55510	COVER	1	1						
19	2	102103-55520	O-RING	1	1						
20	2	110250-55610	RING, RETAINING	1	1						
21	2	121257-55720	SPRING	1	1						
22	2	121257-55731	FLOAT	1	1						
24	2	101720-55750	PLUG, 6	2	2						
25	2	104200-55750	SCREW, M4	1	1						
26	2	171081-55910	SCREEN	1	1						
27	2	23418-060000	GASKET, 6X1.0	2	2						
28	2	24311-240100	O-RING, 1AP10A	1	1						
29	1	119840-59601	BEND	1	1						
30	2	124766-59050	CLIP, HOSE 12	2	2						
32	2	119840-59621	JOINT	1	1						

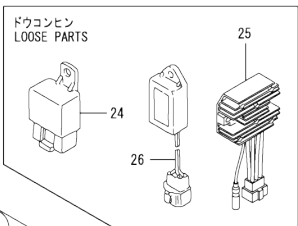
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Fig.15. STARTING MOTOR



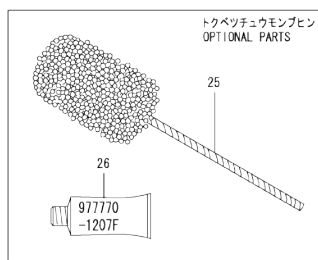
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26106-100252	BOLT, M10X 25 PLATED	2	2						
2	1	119515-77010	STARTER	1	1						
3	2	X0281007680	YOKE ASSY	1	1						
4	3	X0280996180	STARTER KIT	2	2						
5	2	X0285105190	HOLDER ASSY	1	1						
6	3	X0285205030	SPRING	4	4						
7	2	X0282005871	ARMATURE ASSY	1	1						
8	2	X0283006960	CLUTCH ASSY	1	1						
9	2	X4284001590	HOUSING ASSY	1	1						
10	3	X9491050100	BEARING, NEEDLE	1	1						
11	2	X0285007030	FRAME ASSY	1	1						
12	3	X9491040990	BEARING	1	1						
13	3	X0280626010	COVER	1	1						
14	2	X0284105040	BEARING ASSY	1	1						
15	3	X9491034330	BEARING	1	1						
16	2	X0286105010	SHAFT ASSY	1	1						
17	3	X9491034320	BEARING	1	1						
18	2	X0286305010	GEAR	3	3						
19	2	X0286355010	GEAR	1	1						
20	2	X0287405140	LEVER	1	1						
21	2	X0534007800	SWITCH ASSY	1	1						
22	2	X9055715000	RING	1	1						
23	2	X9490721360	RING	1	1						
24	2	X0280210331	NUT	1	1						
25	2	X9490138110	WASHER	1	1						
26	2	X9490138090	WASHER	1	1						
27	2	X9490138100	WASHER	1	1						
28	2	X0284525010	PLATE	1	1						
29	2	X9490562360	NUT	1	1						
30	2	X9490560750	NUT	2	2						
31	2	X9490423520	BOLT, THROUGH	2	2						
33	2	X9490065670	SCREW, M4X6	2	2						
34	2	X0280335360	COVER, TERMINAL	1	1						
35	2	X1289510130	NUT	1	1						
36	1	124160-77020	COVER, TERMINAL	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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N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.17. GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719415-92660	GASKET SET	1	1						1
2	2	119415-01330	GASKET, HEAD	1	1						
3	2	121850-51960	O-RING	1	1						
4	2	119717-11340	SEAL, VALVE STEM	2	2						
5	2	129901-11450	PROTECTOR, NOZZLE	2	2						
6	2	119415-11310	GASKET, BONNET	1	1						
7	2	119415-13110	GASKET	1	1						
8	2	119515-13200	GASKET, SILENCER	1	1						
9	2	119717-11350	SEAL, VALVE STEM	2	2						
10	2	22190-080002	WASHER, SEAL 6	4	4						
11	2	24311-000320	O-RING, 1AP32.0	2	2						
12	2	119717-32060	O-RING, P15.0	1	1						
13	2	119624-32040	O-RING, P12.0	1	1						
14	2	119717-32050	O-RING, P17.0	3	3						
15	2	119600-11460	GASKET, NOZZLE	4	4						
16	2	119415-11330	GASKET	1	1						
17	2	22190-160002	WASHER, SEAL 16	1	1						
18	2	22190-120002	WASHER, SEAL 12	6	6						
19	2	129901-59560	GASKET	2	2						
20	2	119515-42020	GASKET, WATER PUMP	1	1						
21	2	23414-080000	GASKET, 8X1.0	1	1						
22	2	124465-44950	GASKET, 16	1	1						
23	2	129107-13550	GASKET	1	1						
24	2	129150-49360	GASKET	1	1						
25	1	129400-92410	HONE	1	1						1
26	1	977770-1207F	GASKET, LIQUID	1	1						1

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

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	12
101720-55750	14	24
102103-55520	14	5
	19	
103854-39140	14	11
104200-55321	14	15
104200-55330	14	2
	16	
104200-55341	14	17
104200-55750	14	9
	25	
105010-11490	4	5
105311-01090	1	5
105425-01690	3	9
110250-55610	14	6
	20	
114250-39450	9	10
118200-53010	13	2
118400-51370	11	48
119131-18320	6	5
119233-44740	10	20
119233-77710	16	25
119233-77932	12	134
119247-77100	16	24
119255-44660	10	39
119258-12510	5	2
119285-01731	10	28
119285-01990	1	8
119285-11990	4	12
119305-35151	9	3
119305-59120	13	4
119325-12560	5	1
119325-44571	10	35
119325-44600	10	37
119415-01330	1	30
	17	2
119415-01720	3	7
119415-01770	3	8
119415-11200	4	22
119415-11240	4	23
119415-11310	4	46
	17	6
119415-11320	4	47
119415-11330	4	48
	17	16
119415-11380	4	36
119415-11740	4	6
119415-13100	6	1
119415-13110	6	2
	17	7

Parts No.	Fig. No.	Ref. No.
119415-14580	7	3
119415-21590	8	8
119415-21700	8	1
119415-34801	9	1
119415-35080	9	5
119415-39210	9	11
119415-51030	11	5
119415-51400	11	49
119415-51500	11	64
119415-51700	11	74
119415-51710	11	75
119415-51750	11	76
119415-51760	11	77
119415-59540	13	13
119415-59810	13	9
119415-59820	13	10
119415-77820	4	56
119440-13500	6	8
119440-44500	10	33
119515-01200	1	29
119515-01601	3	2
119515-11100	4	14
119515-11110	4	15
119515-11280	4	27
119515-11800	4	9
119515-13200	6	7
	17	8
119515-14400	7	2
119515-22080	8	14
119515-22300	8	20
119515-22500	8	16
119515-22550	8	31
119515-22900	8	29
119515-23000	8	22
119515-23600	8	27
119515-23610	8	35
119515-42020	10	13
	17	20
119515-42041	10	3
119515-51100	11	9
119515-53001	13	1
119515-53010	13	3
119515-61440	12	21
119515-77010	15	2
119540-42000	10	1
119540-59560	13	22
119540-59570	13	20
119600-11460	4	4
	17	15
119609-49520	10	27

Parts No.	Fig. No.	Ref. No.
119620-01750	3	4
119620-02020	1	9
119620-14200	7	1
119620-21500	8	7
119620-21941	8	13
119620-59700	13	23
119621-21680	8	12
119623-01250	1	6
119624-32040	2	18
	17	13
119655-12560	5	4
119660-01911	2	17
119660-61300	12	76
119660-61901	12	66
119686-12570	5	5
119717-01501	2	1
119717-01521	2	5
119717-01570	2	2
119717-01750	2	16
119717-01800	2	6
119717-02410	1	12
119717-02930	1	26
119717-03031	4	37
119717-03070	4	38
	39	
119717-11131	4	16
119717-11190	4	18
119717-11260	4	26
119717-11340	4	19
	17	4
119717-11350	4	20
	17	9
119717-11650	4	28
119717-13600	6	3
119717-21650	8	11
119717-23200	8	26
119717-23910	8	25
119717-25050	7	9
119717-25100	7	10
119717-25930	7	15
119717-32050	2	19
	17	14
119717-32060	9	4
	17	12
119717-32080	2	9
119717-32100	2	8
119717-32110	2	13
119717-32120	2	14
119717-42031	10	4
119717-42320	10	11

Parts No.	Fig. No.	Ref. No.
119717-42350	10	18
119717-51060	11	6
119717-51070	11	7
119717-51150	7	16
119717-51180	11	14
119717-51190	11	15
119717-51200	11	16
119717-51300	11	43
119717-51330	11	46
119717-51420	11	51
119717-51480	11	90
119717-51490	11	91
119717-61050	12	2
119717-61060	12	3
119717-61070	12	4
119717-61120	12	8
119717-61130	12	9
119717-61140	12	10
119717-61150	12	11
119717-61200	12	72
119717-61400	12	14
119717-61500	12	30
119717-77800	4	55
119718-49800	10	30
119734-01590	2	3
119740-61560	12	90
119740-77250	16	18
119742-77300	16	19
119744-61100	12	5
119802-03100	4	40
119802-03110	4	41
119802-03121	4	42
119802-03131	4	43
119802-03141	4	44
119802-13620	6	4
119802-32130	2	15
119808-12540	5	3
119810-02940	1	31
119810-55340	14	3
119810-55650	14	8
119813-59950	13	24
119833-55620	14	1
119840-59570	13	12
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