

0CW10-M25201EN

P R E F A C E

This parts catalog is the 2nd edition of 3TNV88-BPYB1 for KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Published : February, 2016

Contents

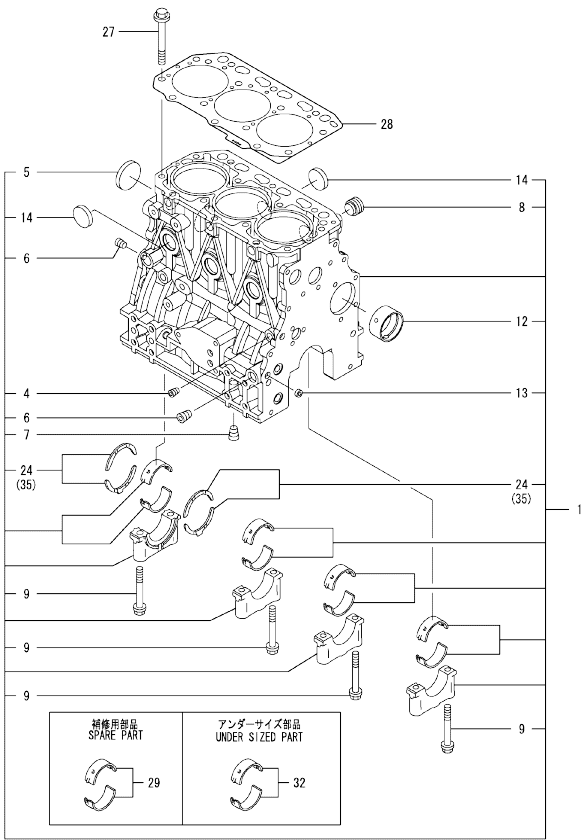
0CW10-M25201

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3TNV88-BPYB1			
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14.	FUEL PIPE		
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16.	GENERATOR		
17.	GASKET SET		

Fig.1. CYLINDER BLOCK

(A)=3TNV88-BPYB1
(B)=
(C)=

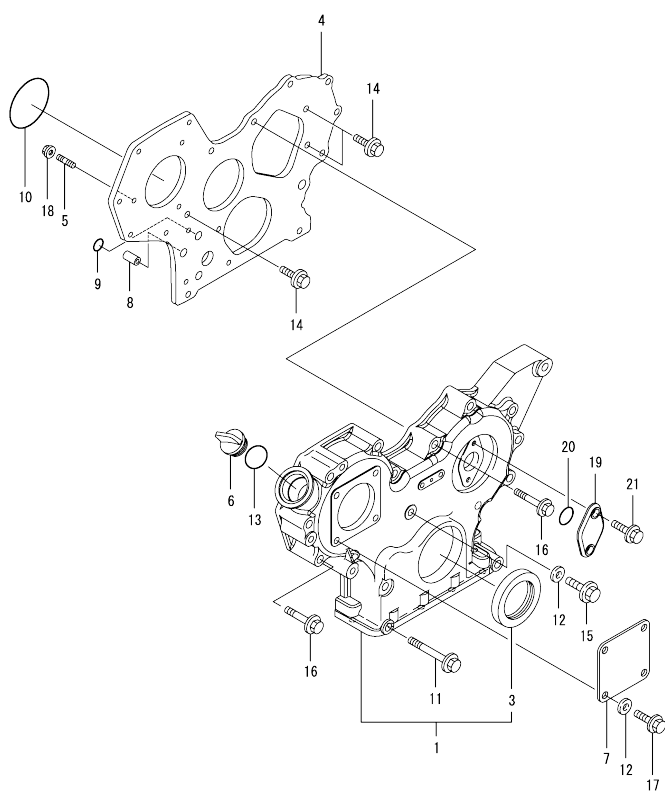
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, DISH TYPE 50	1							
6	2	124160-01910	PLUG, PT1/4	2							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	171051-01921	PLUG, NPTF1	1							
9	2	129150-02020	BOLT, METAL CAP	8							
12	2	129795-02412	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	2							
14	2	27241-300000	PLUG 30	6							
24	2	129150-02931	BEARING ASSY, THRUST	2							
27	1	129150-01200	BOLT, CYLINDER HEAD	14							
28	1	129001-01340	GASKET, HEAD	1							
29	1	129001-02931	BEARING ASSY, MAIN	4							1
32	1	129150-02871	BEARING ASSY, MAIN	4							2
35	1	129150-02941	BEARING, THRUST 0.25	1							3

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

Fig.2. GEAR HOUSING



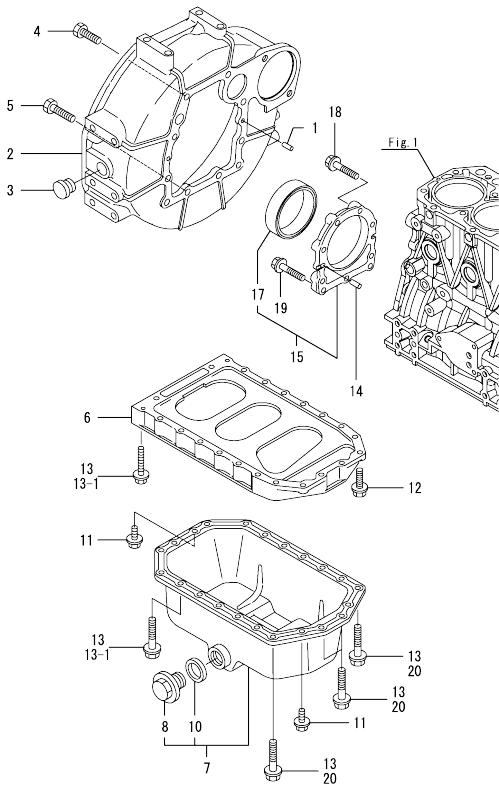
(D)=
(E)=
(F)=

(A)=3TNV88-BPYB1
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729630-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	BOLT, STUD M8X25	3							
6	1	124160-01751	CAP, FILLER	1							
7	1	124240-01871	COVER, PUMP	1							
8	1	129795-01950	PIPE, DOWEL L=18	2							
9	1	119609-32040	O-RING, P16	2							
10	1	121850-51960	O-RING	1							
11	1	129001-91841	BOLT, M8X87	3							
11-1	1	26106-080852	BOLT, M8X 85 PLATED	3							R
		(A=EA4252)									
12	1	22190-080002	WASHER, SEAL 8	5							
13	1	24311-000320	O-RING, 1AP32.0	1							
14	1	26106-080162	BOLT, M8X 16 PLATED	3							
15	1	26106-080302	BOLT, M8X 30 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	12							
17	1	26106-080162	BOLT, M8X 16 PLATED	4							
18	1	26306-080002	NUT, M8	3							
19	1	121023-01551	COVER	1							
20	1	24341-000240	O-RING, 1AS24.0	1							
21	1	26106-060162	BOLT, M6X 16 PLATED	2							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.3. FLYWHEEL HOUSING & OIL SUMP

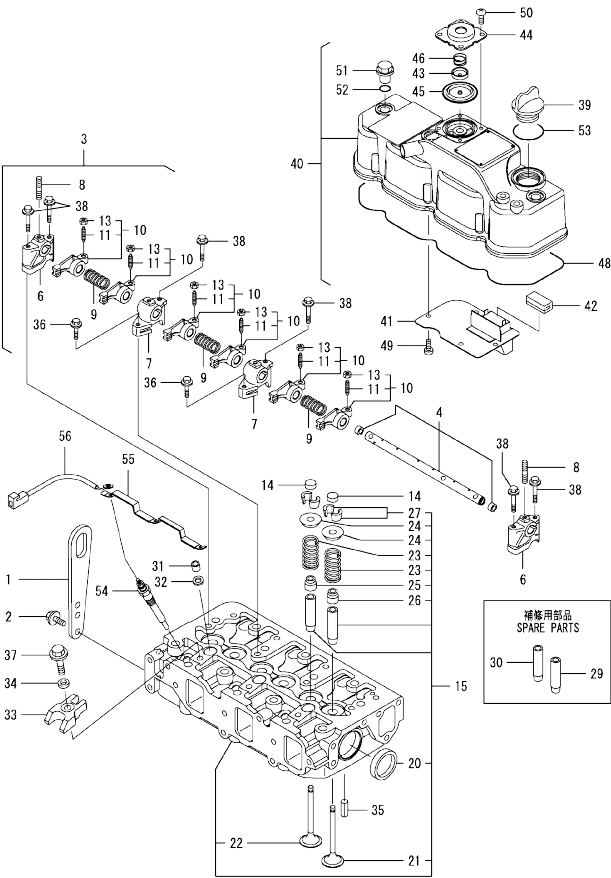


(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL-PAN	1							
7	1	129100-01760	OIL PAN ASSY	1							
8	2	119640-01640	PLUG, DRAIN M22	1							
10	2	22190-220002	WASHER, SEAL 22	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	4							
12	1	26106-080252	BOLT, M8X 25 PLATED	2							
13	1	26106-080452	BOLT, M8X 45 PLATED	20							
13-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K
(A=E90169)											
14	1	129100-01580	PIN, PARALLEL 8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	6							
19	1	26106-080352	BOLT, M8X 35 PLATED	3							
20	1	26106-080502	BOLT, M8X 50 PLATED	4							W
(A=E90169)											

Fig.4. CYLINDER HEAD & BONNET



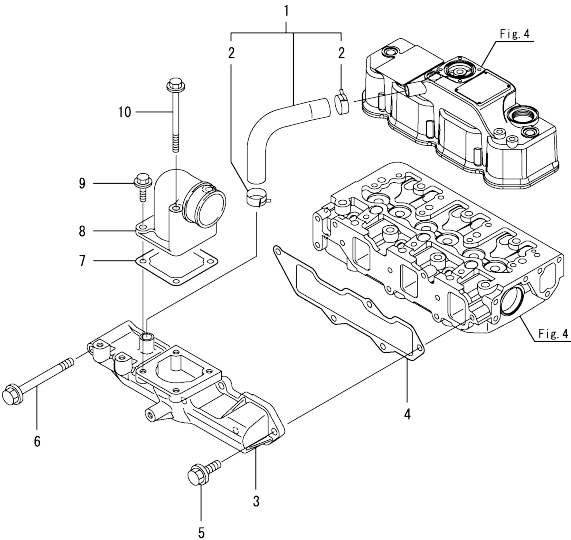
Remarks
(1)Spare parts.

(A)=3TNV88-BPYB1
(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, ENGINE	1							
2	1	26106-080142	BOLT, M8X 14 PLATED	2							
3	1	129004-11241	SHAFT ASSY, ROCKER	1							
4	2	129004-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	BOLT, STUD	3							
9	2	129150-11280	SPRING, ROCKER	3							
10	2	129004-11650	ARM ASSY, ROCKER	6							
11	3	129150-11230	SCREW, VALVE ADJUST	6							
13	3	129150-11750	NUT, M8	6							
14	1	129150-11370	CAP, VALVE	6							
15	1	129008-11700	HEAD ASSY, CYLINDER	1							
20	2	27241-400000	PLUG, 40	2							
21	2	129005-11100	VALVE, SUCTION	3							
22	2	129100-11112	VALVE, EXHAUST	3							
23	2	129795-11120	SPRING, VALVE	6							
24	2	129795-11180	RETAINER, SPRING	6							
25	2	121400-11340	SEAL, VALVE STEM	3							
26	2	124460-11340	SEAL, VALVE STEM	3							
27	2	27310-080001	COTTER, 8	6							
29	1	120130-11860	GUIDE, VALVE	3							1
30	1	129150-11810	GUIDE, VALVE	3							1
31	1	119802-11870	PROTECTOR, NOZZLE	3							
32	1	119625-11880	SEAT, NOZZLE	3							
33	1	129004-11900	RETAINER, NOZZLE	3							
34	1	120270-54410	WASHER, INJECTOR	3							
35	1	22351-060012	PIN, SPRING 6.0X12	2							
36	1	26106-080252	BOLT, M8X 25 PLATED	2							
37	1	26106-080352	BOLT, M8X 35 PLATED	3							
38	1	26106-080502	BOLT, M8X 50 PLATED	6							
39	1	124160-01751	CAP, FILLER	1							
40	1	129004-11350	BONNET ASSY, HEAD	1							
41	2	129004-03010	PLATE, BAFFLE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE, DIAPHRAGM	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
48	2	129004-11310	GASKET, BONNET	1							
49	2	22857-500100	SCREW, 5X10	4							
50	2	22857-500100	SCREW, 5X10	4							
51	1	124160-11360	KNOB	3							
52	1	24311-000120	O-RING, 1AP12.0	3							
53	1	24311-000320	O-RING, 1AP32.0	1							
54	1	129008-77800	PLUG, GLOW	3							
55	1	129008-77820	CONNECTOR, GLOW PLUG	1							
56	1	119803-77830	HARNES, WIRE	1							

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Fig.5. SUCTION MANIFOLD



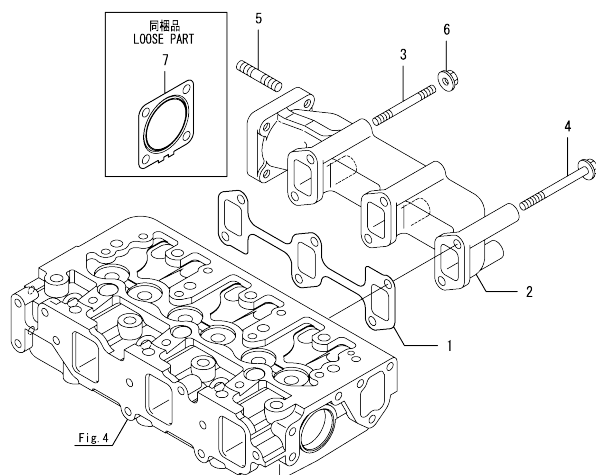
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				(B)=	(D)=						
				(C)=	(E)=						
					(F)=						
					Q'ty						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129005-03080	HOSE ASSY. BREATHER	1							
2	2	129410-03990	CLAMP, HOSE 21.5	2							
3	1	129005-12100	MANIFOLD, AIR INTAKE	1							
3-1	1	129005-12101	MANIFOLD, AIR INTAKE	1							R
(A=E90169)											
4	1	129001-12110	GASKET, MANIFOLD	1							
5	1	26106-080202	BOLT, M8X 20 PLATED	4							
6	1	26106-080802	BOLT, M8X 80 PLATED	1							
7	1	129150-77511	GASKET, AIR HEATER	1							
8	1	119803-77520	BEND, AIR HEATER	1							
9	1	26106-080202	BOLT, M8X 20 PLATED	2							
10	1	26106-080802	BOLT, M8X 80 PLATED	2							

Fig.6. EXHAUST MANIFOLD

(D)=
(E)=

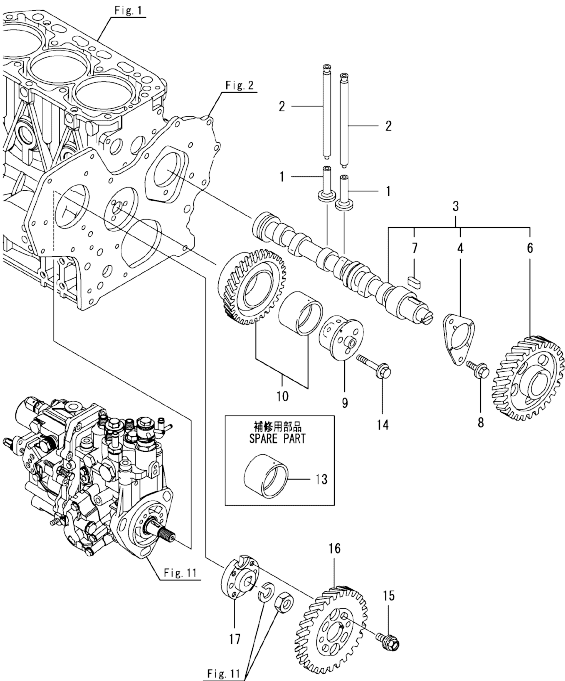
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-13110	GASKET, EXH.MANIFOLD	1							
2	1	129004-13129	MANIFOLD, EXHAUST	1							
3	1	123900-13610	BOLT, STUD M8X80	2							
4	1	123900-13630	BOLT, M8X80	4							
4-1	1	129E00-13640	BOLT, M8X80 10.9T	4						N	
(A=ER2124)											
5	1	119131-18320	BOLT, STUD M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	129004-13200	GASKET, SII ENCFR	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.7. CAMSHAFT & DRIVING GEAR



(A)=3TNV88-BPYB1
(B)=
(C)=

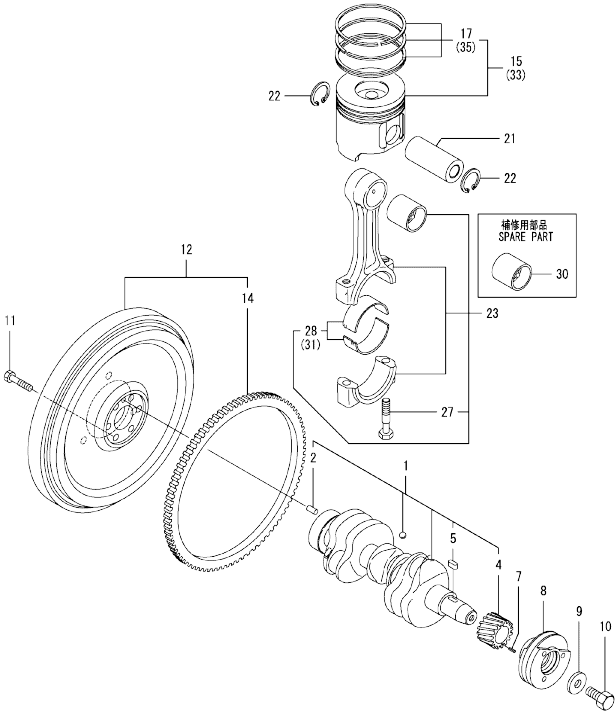
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	PUSH-ROD, L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	119803-25050	SHAFT, IDLE	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	119802-25071	BUSH, IDLE GEAR	1							1
14	1	26106-080402	BOLT, M8X 40 PLATED	3							
15	1	129150-25301	BOLT	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	158552-51151	FLANGE	1							

Remarks
(1)Spare parts.

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Fig.8. CRANKSHAFT & PISTON



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

0CW10-M25201 Fig.8

(A)=3TNV88-BPYB1
(B)=
(C)=

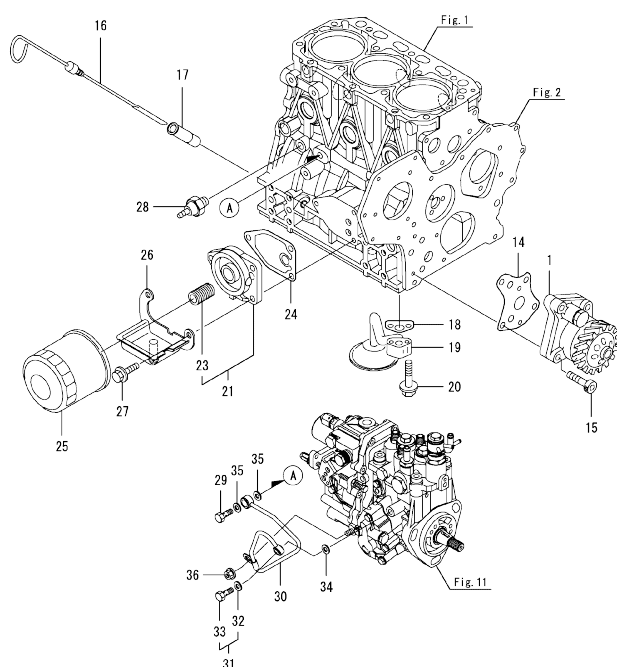
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129008-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	129004-21650	V-PULLEY, CRANK 110	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129128-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING Z=116	1							
15	1	129005-22080	PISTON ASSY	3							
17	2	129005-22500	RING SET, PISTON	3							
21	1	129202-22300	PIN, PISTON D26 L70	3							
22	1	22252-000260	RING, 26	6							
23	1	729402-23100	ROD ASSY, CONNECTING	3							
27	2	121550-23200	BOLT, CONNECTING ROD	6							
28	2	129150-23601	BEARING, CRANK PIN	3							
30	1	129100-23910	BEARING, PISTON PIN	3							1
31	1	129150-23611	BEARING, 0.25 US	3							2
33	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
35	2	129005-22950	RING SET, 0.25 OS	3							3

Fig.9. LUB. OIL SYSTEM

(D)=
(E)=

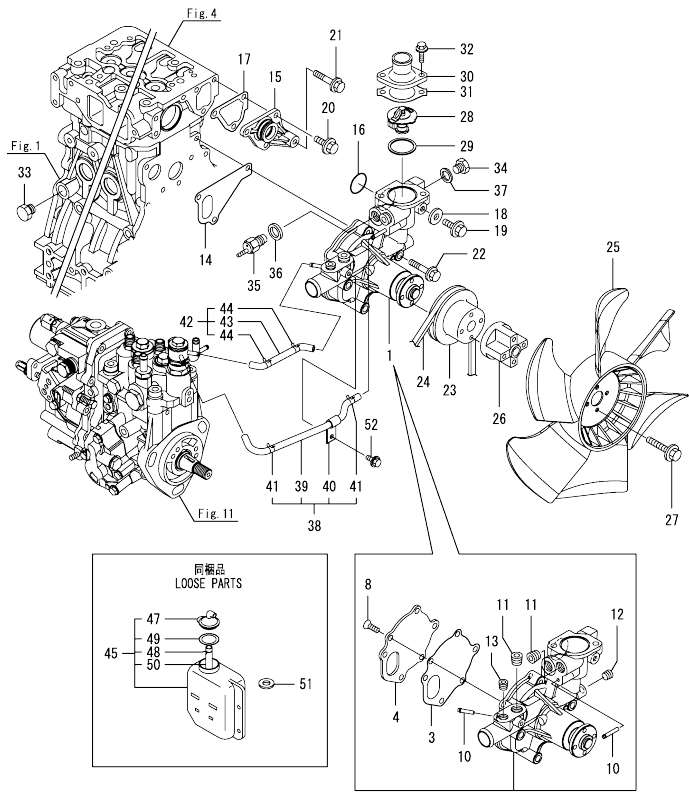
(D)=
(E)=
(F)=



Remarks
(1) Spare parts.

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

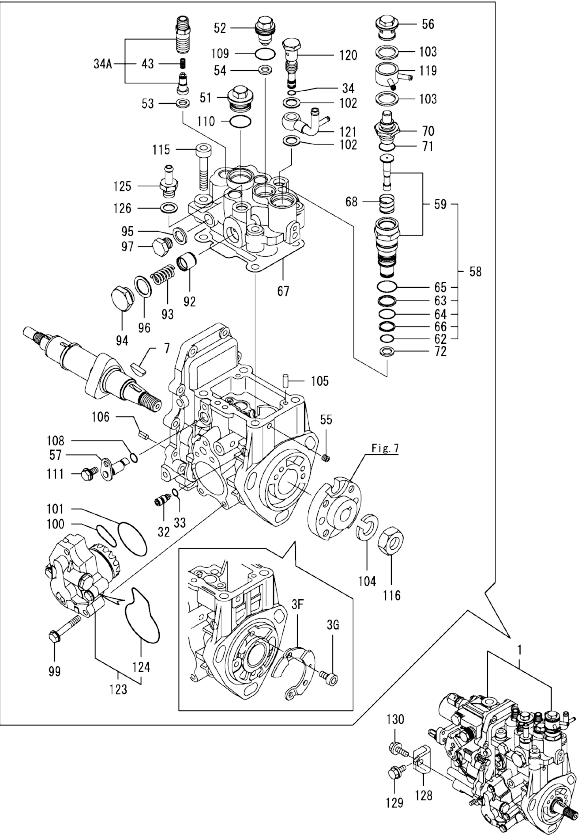
Fig.10. COOLING WATER SYSTEM



										0CW10-M25201 Fig.10	
										(A)=3TNV88-BPYB1 (D)= (E)= (F)=	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129242-42000	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE, PUMP	1							
8	2	121850-42410	SCREW	3							
8-1	2	26577-060142	SCREW M 6X 14	3							N
(A=EB5951)											
10	2	119802-49113	JOINT, PIPE	2							
11	2	129916-49740	PLUG, R3/8	2							
12	2	23876-010000	PLUG, R01	1							
13	2	23876-020000	PLUG, R02	1							
13-1	2	23875-020000	PLUG, R02	1							N
(A=EB5951)											
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET, THERMOSTAT	1							
18	1	23414-080000	GASKET, 8X1.0	1							
19	1	26106-080122	BOLT, M8X 12 PLATED	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	3							
21	1	26106-080452	BOLT, M8X 45 PLATED	1							
22	1	26106-080602	BOLT, M8X 60 PLATED	3							
23	1	129155-42350	V-PULLEY, C.W.PUMP	1							
24	1	129612-42350	V-BELT, A38	1							
25	1	171340-44740	FAN, COOLING D335XNF	1							
26	1	171353-44760	SPACER, FAN	1							
27	1	26106-060402	BOLT, M6X 40 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71C	1							
29	1	129150-49811	GASKET, THERMOSTAT	1							
30	1	129350-49530	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET	1							
32	1	26106-080222	BOLT, M8X 22 PLATED	2							
33	1	171056-49120	PLUG, DRAIN R1/4	1							
34	1	121450-42450	PLUG, M16	1							
35	1	121250-44901	SWITCH, THERMO 110	1							
36	1	124465-44950	GASKET, 16	1							
37	1	124465-44950	GASKET, 16	1							
38	1	129004-49610	HOSE ASSY, WATER	1							
39	2	129004-49711	HOSE, WATER	1							
40	2	119802-49730	RETAINER, PIPE	1							
41	2	124722-59050	CLAMP, HOSE 9	2							
42	1	129004-49620	HOSE ASSY, WATER	1							
43	2	129004-49721	HOSE, WATER	1							
44	2	124722-59050	CLAMP, HOSE 9	2							
45	1	121468-44520	TANK ASSY, SUB	1							
47	2	121450-44531	CAP	1							
48	2	124450-44560	CLAMP, HOSE	1							
49	2	121470-44581	GASKET	1							
50	2	23065-070130	PIPE, 7X 130	1							
51	1	129150-49360	GASKET	1							
52	1	26106-060122	BOLT, M6X 12 PLATED	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:Qty Change
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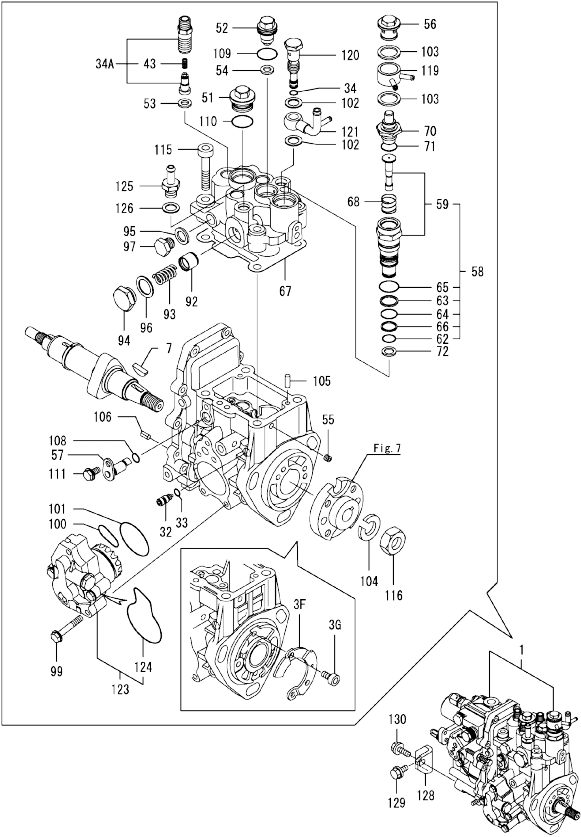
Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).
(1)No.1-2 is interchangeable with a set of Fig.13 No.1-1.

										OCW10-M25201		Fig.11	
										(A)=3TNV88-BPYB1		(D)=	
										(B)=		(E)=	
										(C)=		(F)=	
No.	Lev.	Parts No.	Description	Q'ty						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	729236-51320	PUMP ASSY, INJECTION	1							1		
1-1	1	729236-51321	PUMP ASSY, INJECTION	1							N 1		
(A=EB3054)													
1-2	1	729236-51500	PUMP ASSY, INJECTION	1							F 1		
(A=EB6484)													
3F	2	129008-51900	COVER, PUMP	1							W		
(A=EB4031)													
3G	2	129008-51920	BOLT, SOCKET M6X10	2							W		
(A=EB4031)													
7	2	119802-51090	FEATHER KEY, 4X16	1									
32	2	158600-51270	STOPPER, TAPPET	1									
33	2	158563-51281	O-RING, 4D S6	1									
34	2	158563-51281	O-RING, 4D S6	1									
34A	2	129008-51390	VALVE ASSY, DELIVERY	3									
43	3	158563-51330	SPRING, DELIVERY	3									
51	2	158601-51550	PLUG, M22	1									
52	2	19802-51560	PLUG, M14	1									
53	2	158552-51570	GASKET, PLUG	3									
53-1	2	158552-51571	GASKET, PLUG	3							R		
(A=E90169)													
54	2	158552-51570	GASKET, PLUG	1									
54-1	2	158552-51571	GASKET, PLUG	1							R		
(A=E90169)													
55	2	158557-51570	PLUG, RACK	1									
56	2	158601-51570	PLUG	1									
57	2	158552-51580	LIFTER, LINK	1									
58	2	119802-51590	TIMER ASSY	1									
59	3	119802-51600	TIMER ASSY	1									
62	3	158553-51670	O-RING	1									
63	3	119802-51680	RING, BACKUP	1									
64	3	119802-51690	O-RING	1									
65	3	24356-190200	O-RING, 4D19020	1									
66	3	24372-000150	RING, BACK UP T2P15	1									
67	2	158552-51600	GASKET	1									
68	2	158553-51630	SPRING, TIMER	1									
70	2	158553-51640	THERMOELEMENT	1									
70-1	2	158553-51650	THERMOELEMENT	1							N		
(A=EB3054)													
71	2	158553-51660	O-RING, P14	1									
72	2	158553-51680	GASKET, TIMER	1									
92	2	158601-51770	PISTON, ACCUMULATOR	1									
93	2	158552-51781	SPRING, ACCUMULATOR	1									
94	2	158601-51790	PLUG	1									
95	2	22190-120002	WASHER, SEAL 12	1									
96	2	22190-180002	WASHER, SEAL 18	1									
97	2	23887-120002	PLUG, 12	1									
97-1	2	158553-51930	PLUG, M12	1							R		
(A=EB3054)													
99	2	158553-51770	BOLT	4									
100	2	158552-52310	O-RING	1									
100-1	2	158552-52311	O-RING	1							R		
N:Old YES NO New, Q:Old YES NO New, R:Old YES NO New, S:Old YES NO New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change													
++ CONTINUE ++													
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Fig.11. FUEL INJECTION PUMP



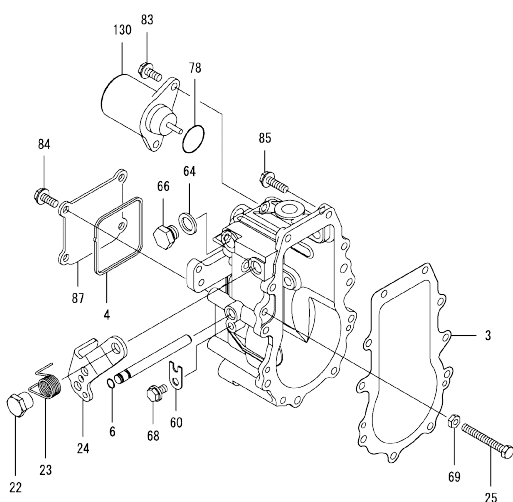
Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).
(1)No.1-2 is interchangeable with a set of Fig.13 No.1-1.

(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
101	2	158552-52400	O-RING, 4E S42	1							
102	2	22190-120002	WASHER, SEAL 12	2							
103	2	22190-180002	WASHER, SEAL 18	2							
104	2	22217-140000	WASHER, SPRING 14	1							
105	2	22312-050140	PIN, PARALLEL 5X14	2							
106	2	22351-050010	PIN, SPRING 5.0X10	2							
108	2	24311-000070	O-RING, 1AP7.0	1							
109	2	24356-190180	O-RING, 4D19018	1							
110	2	24356-190200	O-RING, 4D19020	1							
111	2	26106-060102	BOLT, M6X 10 PLATED	1							
115	2	26450-080452	BOLT, M8X 45	4							
116	2	26776-140002	NUT, LOCK M14	1							
119	2	158553-51551	JOINT, COOLING WATER	1							
120	2	158601-51650	JOINT, OVER FLOW	1							
121	2	158552-51670	JOINT, OVER FLOW	1							
123	2	158552-52100	PUMP ASSY, FUEL FEED	1							
124	3	158552-52500	O-RING	1							
125	2	119934-59910	JOINT, PIPE	1							
126	2	22190-120002	WASHER, SEAL 12	1							
128	1	119802-51250	RETAINER, PUMP	1							
129	1	26106-080162	BOLT, M8X 16 PLATED	1							
130	1	26106-080202	BOLT, M8X 20 PLATED	1							

Fig.12. GOVERNOR



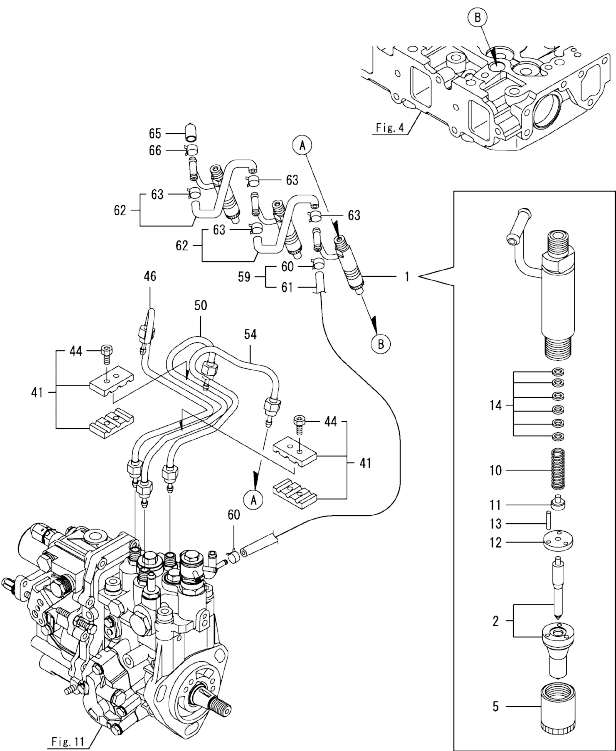
* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.11).

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
22	2	129255-61410	NUT, M8	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	158552-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, LIMITING	1							
60	2	119660-61901	STOPPER, SHAFT	1							
64	2	22190-120002	WASHER, SEAL 12	1							
66	2	23887-120002	PLUG, 12	1							
66-1	2	158553-51930	PLUG, M12	1							R
(A)=EB3054)											
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26756-060002	NUT, LOCK M6	1							
78	2	158552-61900	O-RING	1							
83	2	26106-060142	BOLT, M6X 14 PLATED	2							
84	2	26106-060142	BOLT, M6X 14 PLATED	4							
85	2	26106-060202	BOLT, M6X 20 PLATED	10							
87	2	129642-61060	COVER, GOVERNOR CASE								
130	2	119233-77932	SOLENOID, STOP	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.13. FUEL INJECTION VALVE



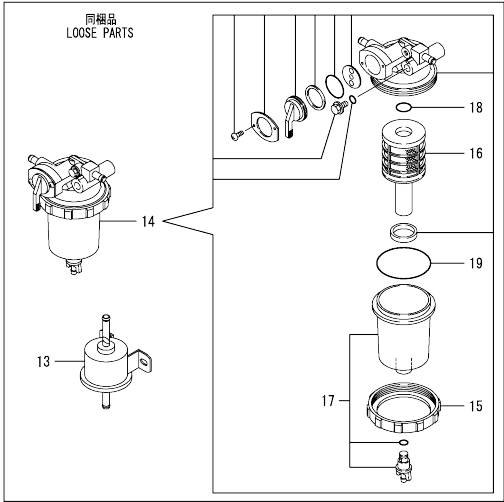
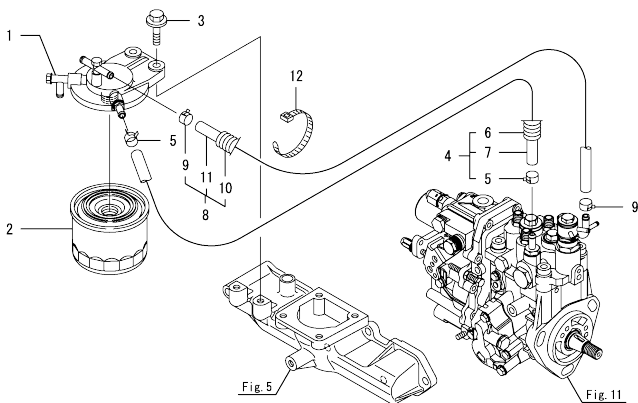
Remarks
(1)No.1-1 is interchangeable with a set of Fig.11 No.1-2.

(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53100	FUEL INJECTOR ASSY	3							
1-1	1	729604-53300	FUEL INJECTOR ASSY	3						S	1
(A=EB6484)											
2	2	129604-53000	NOZZLE ASSY, F.I.	3							
2-1	2	129604-53300	NOZZLE ASSY, F.I.	3						S	
(A=EB6484)											
5	2	114250-53080	NUT, NOZZLE	3							
10	2	114250-53120	SPRING, NOZZLE	3							
11	2	114250-53130	SEAT, SPRING	3							
12	2	114250-53140	SPACER	3							
13	2	114250-53210	PIN	6							
14	2	119803-53400	SHIM SET	3							
41	1	129150-59120	RETAINER, PIPE	2							
44	2	129150-59131	BOLT, M4X14	4							
46	1	129004-59811	PIPE ASSY, INJECTION	1							
50	1	129004-59821	PIPE ASSY, INJECTION	1							
54	1	129004-59831	PIPE ASSY, INJECTION	1							
59	1	119802-59550	HOSE ASSY, RETURN	1							
60	2	124722-59050	CLAMP, HOSE 9	2							
61	2	119802-59560	HOSE, FUEL RETURN	1							
62	1	129486-59551	HOSE ASSY, RETURN	2							
63	2	124722-59050	CLAMP, HOSE 9	4							
65	1	119593-59581	CAP	1							
66	1	124060-77680	CLAMP, HOSE 10	1							

Fig.14. FUEL PIPE

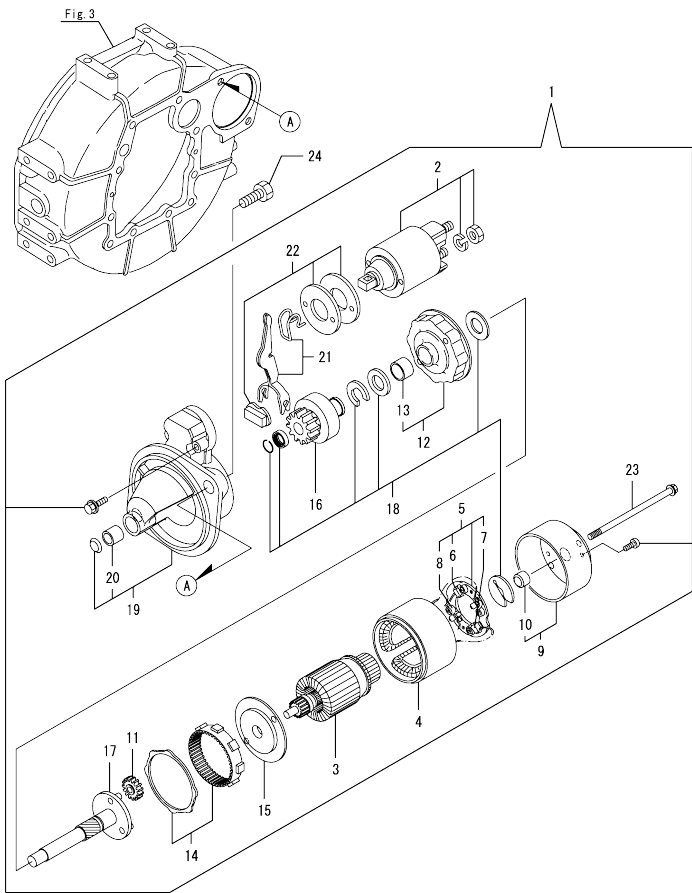


(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	129004-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129044-59010	HOSE ASSY, D13XL220	1							
5	2	124766-59050	CLAMP, HOSE 11.5	2							
6	2	129044-59100	TUBE, CORRUGATED 15	1							
7	2	129044-59510	HOSE, FUEL L=220	1							
8	1	129950-59311	HOSE ASSY, FUEL	1							
9	2	124766-59050	CLAMP, HOSE 11.5	2							
10	2	129961-59110	TUBE, CORRUGATED 15	1							
11	2	105025-59580	HOSE, FUEL	1							
12	1	121750-59890	BAND, NYLON	1							
13	1	129612-52100	PUMP, FUEL FEED	1							
14	1	119802-55700	SEPARATOR ASSY, WATER	1							
15	2	129100-55690	RING, CUP RETAINING	1							
16	2	119802-55710	ELEMENT	1							
17	2	119802-55730	CUP ASSY, SEPARATOR	1							
18	2	24311-000160	O-RING, 1AP16.0	1							
19	2	24321-000650	O-RING, 1AG65.0	1							

Fig.15. STARTER MOTOR

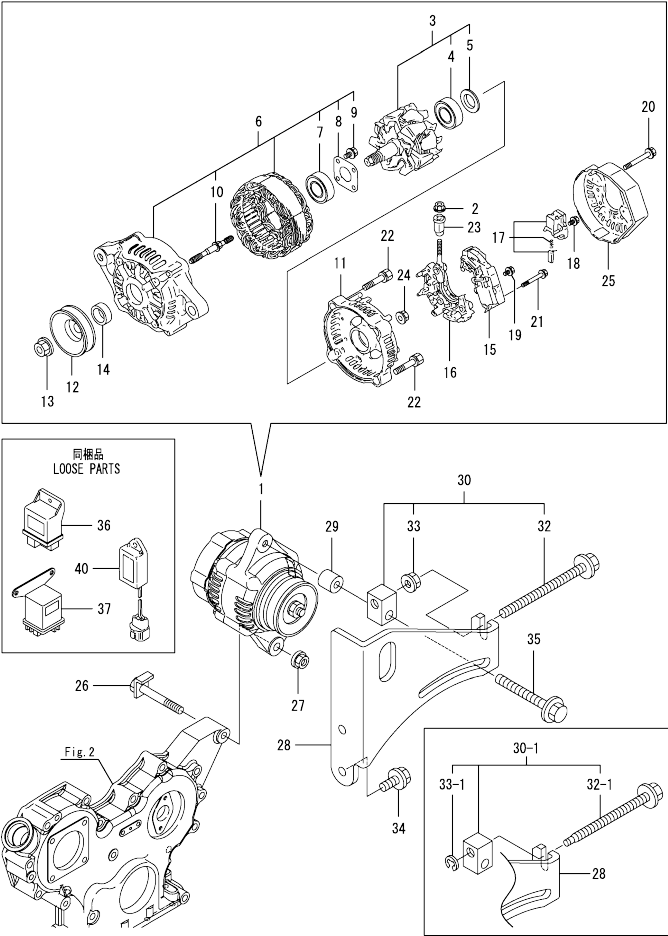


(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129242-77010	STARTER ASSY	1							
2	2	129698-77020	SWITCH ASSY, MAGNET	1							
3	2	129242-77100	ARMATURE ASSY	1							
4	2	129242-77110	YOKE ASSY	1							
5	2	129242-77120	HOLDER ASSY, BRUSH	1							
6	3	129242-77130	BRUSH	2							
7	3	129242-77140	BRUSH SET	1							
8	3	129242-77150	SPRING, BRUSH	4							
9	2	129242-77160	COVER ASSY	1							
10	3	129242-77170	BEARING, COVER	1							
11	2	118400-77170	GEAR, PLANETARY	3							
12	2	129242-77180	BRACKET, CENTER	1							
13	3	129698-77190	BRACKET, CENTER	1							
14	2	129698-77200	GEAR, INTERNAL	1							
15	2	129242-77210	BRACKET, CENTER	1							
16	2	129698-77220	PINION ASSY	1							
17	2	129698-77230	SHAFT, PINION	1							
18	2	129698-77250	WASHER SET	1							
19	2	129242-77260	CASE ASSY, GEAR	1							
20	3	X2114535200	BEARING, STARTER	1							
21	2	129242-77270	LEVER SET	1							
22	2	129242-77280	COVER KIT, DUST	1							
23	2	124195-77770	BOLT, THROUGH	2							
24	1	26116-120252	BOLT, M12X 25 PLATED	2							
24-1	1	26106-120252 (A=ED6788)	BOLT, M12X 25 PLATED	2							R

Fig.16. GENERATOR

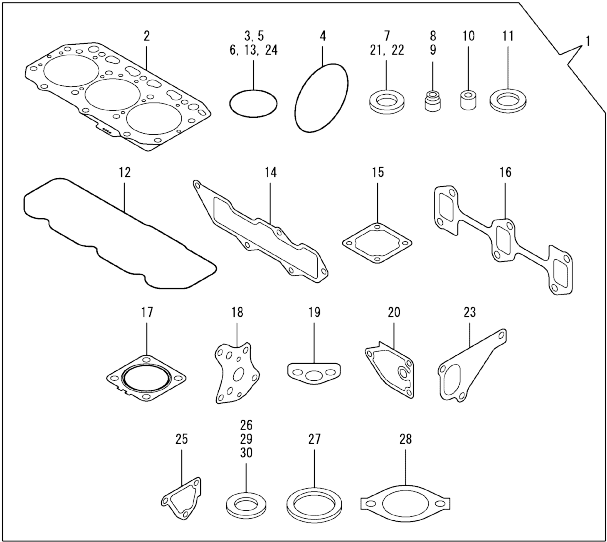


(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-77210	ALTERNATOR, 12V-55A	1							
2	2	X9490561001	NUT	1							
3	2	129052-77380	ROTOR ASSY	1							
4	3	123501-79240	BEARING, BALL	1							
5	3	119620-79250	COVER, BEARING	1							
6	2	129052-77422	FRAME ASSY	1							
7	3	119620-79200	BEARING, BALL	1							
8	3	119620-79210	RETAINER	1							
9	3	119620-79220	SCREW	4							
10	3	119620-79230	BOLT, STUD	2							
11	2	128401-77440	FRAME	1							
12	2	119620-77461	PULLEY, GENERATOR	1							
13	2	119620-77471	NUT	1							
14	2	119620-77490	COLLAR	1							
15	2	129423-77710	REGULATOR ASSY	1							
16	2	129052-79260	HOLDER	1							
17	2	129052-79270	HOLDER, BRUSH	1							
18	2	119620-79290	SCREW	6							
19	2	119620-79300	SCREW	1							
20	2	119620-79310	BOLT	3							
21	2	119620-79320	SCREW	2							
22	2	119620-79330	BOLT	2							
23	2	119620-79340	BUSH, INSULATION	1							
24	2	119620-79350	NUT	2							
25	2	119626-77450	COVER	1							
26	1	119740-77250	BOLT, M10X75	1							
26-1	1	119740-77251	BOLT, M10X80	1							N
(A=EB3054)											
27	1	26306-100002	NUT, M10	1							
28	1	129242-77310	ADJUSTER	1							
29	1	124732-77340	SPACER	1							
30	1	119624-77351	BLOCK ASSY, ADJUSTER	1							
30-1	1	129630-77350	BLOCK ASSY, ADJUSTER	1							N
(A=EB4031)											
32	2	26106-081004	BOLT, M8X100 PLATED	1							
32-1	2	129630-77380	BOLT, M8X100	1							S
(A=EB4031)											
33	2	26306-080002	NUT, M8	1							
33-1	2	22272-000050	RING, E- 5	1							S
(A=EB4031)											
34	1	26106-080162	BOLT, M8X 16 PLATED	2							
35	1	26106-080652	BOLT, M8X 65 PLATED	1							
36	1	119802-77200	RELAY, SAFETY	1							
37	1	119650-77910	RELAY ASSY, GLOW	1							
37-1	1	119650-77911	RELAY ASSY, GLOW	1							N
(A=EE5344)											
40	1	129211-77920	TIMER	1							

Fig.17. GASKET SET



Remarks
(1)Optional parts.

(A)=3TNV88-BPYB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-92620	GASKET SET	1							1
2	2	129001-01340	GASKET, HEAD	1							
3	2	119609-32040	O-RING, P16	2							
4	2	121850-51960	O-RING	1							
5	2	24311-000320	O-RING, 1AP32.0	2							
6	2	24341-000240	O-RING, 1AS24.0	1							
7	2	22190-220002	WASHER, SEAL 22	1							
8	2	121400-11340	SEAL, VALVE STEM	3							
9	2	124460-11340	SEAL, VALVE STEM	3							
10	2	119802-11870	PROTECTOR, NOZZLE	3							
11	2	119625-11880	SEAT, NOZZLE	3							
12	2	129004-11310	GASKET, BONNET	1							
13	2	24311-000120	O-RING, 1AP12.0	3							
14	2	129001-12110	GASKET, MANIFOLD	1							
15	2	129150-77511	GASKET, AIR HEATER	1							
16	2	129150-13110	GASKET, EXH.MANIFOLD	1							
17	2	129004-13200	GASKET, SILENCER	1							
18	2	129150-32020	GASKET, PUMP	1							
19	2	129150-35042	GASKET	1							
20	2	129150-35111	GASKET	1							
21	2	22190-080002	WASHER, SEAL 8	7							
22	2	22190-100002	WASHER, SEAL 10	2							
23	2	129486-42021	GASKET, WATER PUMP	1							
24	2	129486-42140	O-RING, G30	1							
25	2	124395-49840	GASKET, THERMOSTAT	1							
26	2	23414-080000	GASKET, 8X1.0	1							
27	2	129150-49811	GASKET, THERMOSTAT	1							
28	2	129795-49551	GASKET	1							
29	2	124465-44950	GASKET, 16	2							
30	2	129150-49360	GASKET	1							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59580	14	11
114250-39450	9	28
114250-53080	13	5
114250-53120	13	10
114250-53130	13	11
114250-53140	13	12
114250-53210	13	13
118400-77170	15	11
119005-35151	9	25
119131-18320	6	5
119233-77932	12	130
119593-59581	13	65
119609-32040	2	9
	17	3
119620-01750	3	3
119620-77461	16	12
119620-77471	16	13
119620-77490	16	14
119620-79200	16	7
119620-79210	16	8
119620-79220	16	9
119620-79230	16	10
119620-79250	16	5
119620-79290	16	18
119620-79300	16	19
119620-79310	16	20
119620-79320	16	21
119620-79330	16	22
119620-79340	16	23
119620-79350	16	24
119624-77351	16	30
119625-11880	4	32
	17	11
119626-77210	16	1
119626-77450	16	25
119640-01640	3	8
119650-77910	16	37
119650-77911	16	37 -1
119660-61901	12	60
119740-77250	16	26
119740-77251	16	26 -1
119802-01561	2	5
119802-03110	4	43
119802-03121	4	44
119802-03130	4	45
119802-03141	4	46
119802-11260	4	6
119802-11270	4	7
119802-11280	4	8
119802-11870	4	31

Parts No.	Fig. No.	Ref. No.
119802-11870	17	10
119802-25071	7	13
119802-25101	7	10
119802-25901	7	16
119802-35100	9	21
119802-39450	9	30
119802-49113	10	10
119802-49730	10	40
119802-51090	11	7
119802-51250	11	128
119802-51560	11	52
119802-51590	11	58
119802-51600	11	59
119802-51680	11	63
119802-51690	11	64
119802-55700	14	14
119802-55710	14	16
119802-55730	14	17
119802-59550	13	59
119802-59560	13	61
119802-77200	16	36
119803-01520	2	4
119803-21200	8	4
119803-25050	7	9
119803-53400	13	14
119803-77520	5	8
119803-77830	4	56
119807-61420	12	23
119865-21600	8	14
119934-01800	2	3
119934-59910	11	125
120130-11860	4	29
120270-54410	4	34
121023-01551	2	19
121111-21501	8	11
121250-44901	10	35
121400-11340	4	25
	17	8
121450-42450	10	34
121450-44531	10	47
121468-44520	10	45
121470-44581	10	49
121520-34810	9	17
121550-23200	8	27
121750-59890	14	12
121850-21680	8	10
121850-42410	10	8
121850-51960	2	10
	17	4
123501-79240	16	4

Parts No.	Fig. No.	Ref. No.
123900-13610	6	3
123900-13630	6	4
124060-01050	1	4
124060-77680	13	66
124160-01751	2	6
	4	39
124160-01910	1	6
		7
124160-11360	4	51
124160-39140	9	29
124195-77770	15	23
124240-01871	2	7
124395-49840	10	17
	17	25
124450-44560	10	48
124460-11340	4	26
	17	9
124465-44950	10	36
		37
	17	29
124722-59050	10	41
		44
	13	60
		63
124732-77340	16	29
124766-59050	14	5
		9
128401-77440	16	11
129001-01250	1	5
129001-01340	1	28
	17	2
129001-02931	1	29
129001-12110	5	4
	17	14
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