

0CD10-M98400EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV88-BQIK for KATO WORKS CO.,LTD.

Pub.No. : 000Y00D9840

Published : November, 2007

2. Model name

Engine model	Vehicle		Vehicle made by
	Product	Model name	
3TNV88-BQIK	Mini Excavator	35VX2	KATO WORKS CO.,LTD.

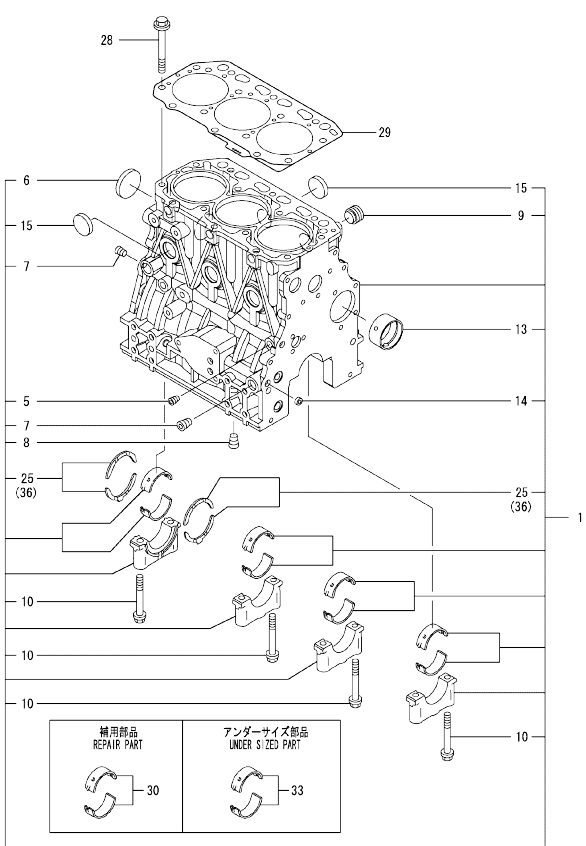
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Fig.1. CYLINDER BLOCK

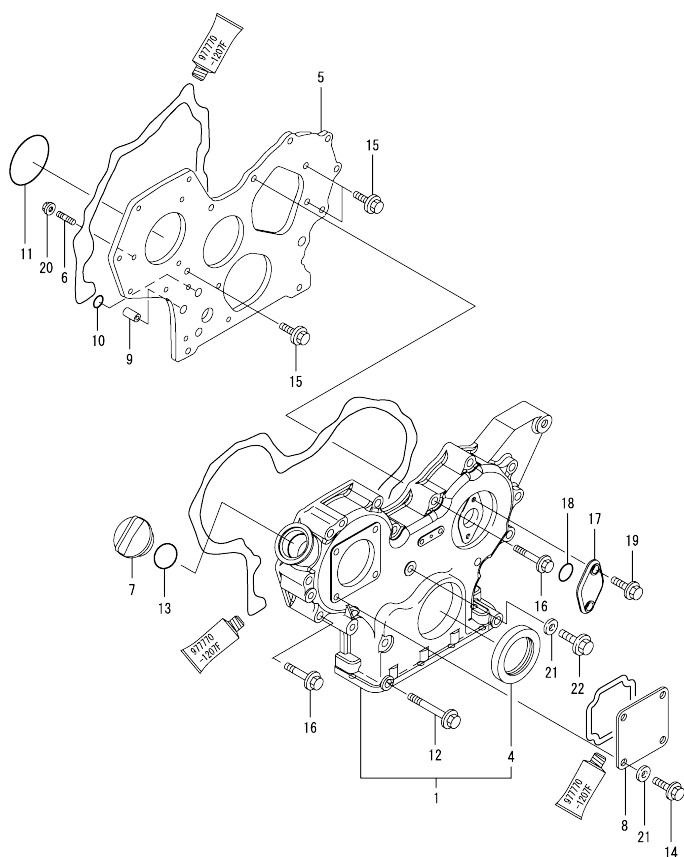


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) REPAIR PART.

OCD10-M98400 Fig.1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
5	2	124060-01050	PLUG, PT1/8	1							
6	2	129001-01250	PLUG, 50	1							
7	2	124160-01910	PLUG, PT1/4	2							
8	2	124160-01910	PLUG, PT1/4	1							
9	2	171051-01921	PLUG, NPTF1	1							
10	2	129150-02020	BOLT, METAL CAP	8							
13	2	129795-02412	BUSH, CAMSHAFT	1							
14	2	27241-120000	PLUG, 12	2							
15	2	27241-300000	PLUG 30	6							
25	2	129150-02931	BEARING, THRUST	2							
28	1	129150-01200	BOLT, HEAD	14							
29	1	129001-01340	GASKET, HEAD	1							
30	1	129001-02931	BEARING, MAIN	4							3
33	1	129150-02871	BEARING, 0.25 US	4							1
36	1	129150-02941	BEARING, THRUST 0.25	1							2

Fig.2. GEAR HOUSING



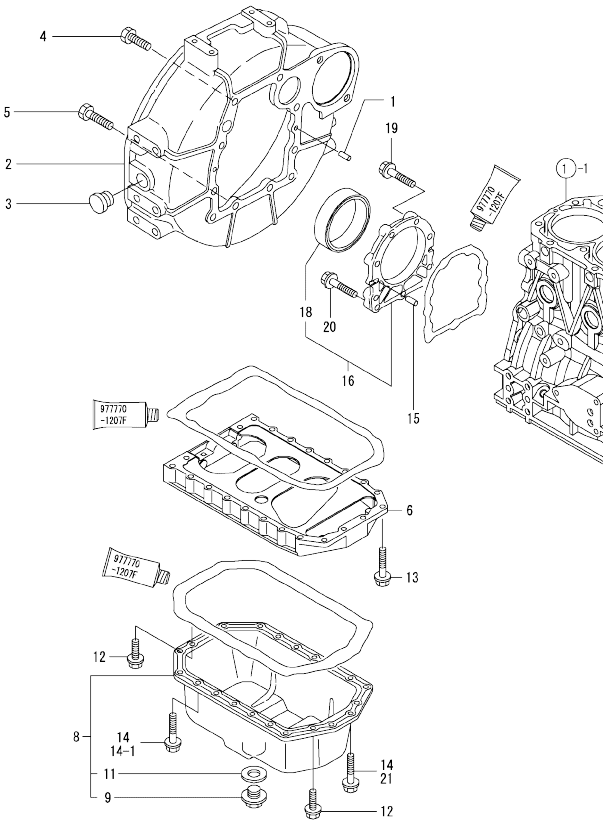
(D)=
(E)=

				(A)=3TNV88-BQIK (B)= (C)=				(D)= (E)= (F)=				I	R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty				
1	1	719803-01500	CASE ASSY, GEAR	1										
4	2	119934-01800	SEAL, OIL	1										
5	1	119803-01520	FLANGE, GEAR CASE	1										
6	1	119802-01561	STUD, M8X25	3										
7	1	124160-01751	COVER, FILLER	1										
8	1	124240-01871	COVER	1										
9	1	129795-01950	PIPE, KNOCK L=18	2										
10	1	119609-32040	O-RING, P16	2										
11	1	121850-51960	O-RING	1										
12	1	129001-91841	BOLT, M8X85	3										
13	1	24311-000320	O-RING, 1AP32.0	1										
14	1	26106-080162	BOLT, M8X 16 PLATED	4										
15	1	26106-080162	BOLT, M8X 16 PLATED	3										
16	1	26106-080552	BOLT, M8X 55 PLATED	12										
17	1	121023-01551	COVER	1										
18	1	24341-000240	O-RING, 1AS24.0	1										
19	1	26106-060162	BOLT, M6X 16 PLATED	2										
20	1	26306-080002	NUT, M8	3										
21	1	22190-080002	WASHER, SEAL 6	5										
22	1	26106-080302	BOLT, M8X 30 PLATED	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



OCD10-M98400 Fig.3

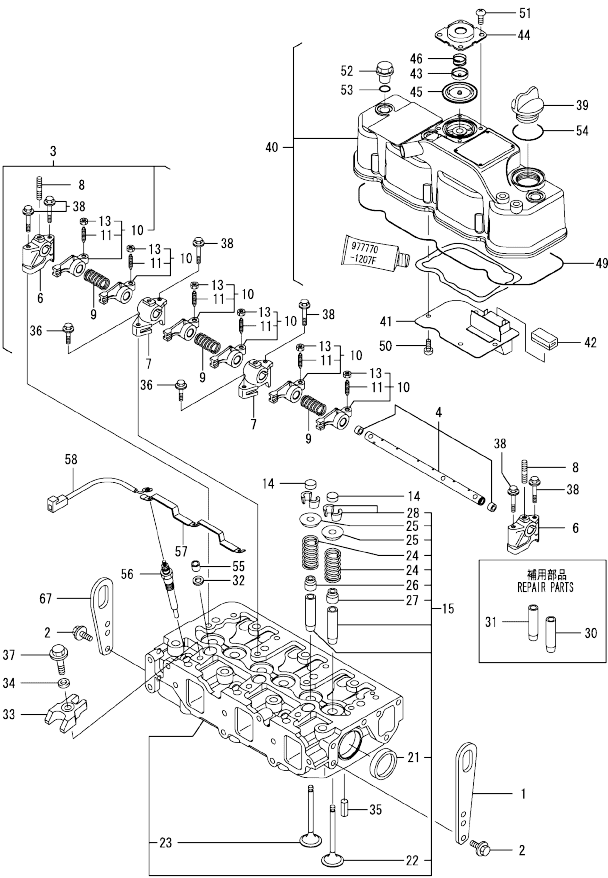
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	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 SUMP	1							
8	1	129136-01780	SUMP ASSY, OIL	1							
9	2	119640-01640	PLUG, DRAIN M22	1							
11	2	22190-220002	WASHER, SEAL 22	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	4							
13	1	26106-080252	BOLT, M8X 25 PLATED	2							
14	1	26106-080452	BOLT, M8X 45 PLATED	20							
14-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K
(A=FROM 1ST)											
15	1	129100-01580	PIN, M8X16	2							
16	1	129100-01640	CASE ASSY, OIL SEAL	1							
18	2	129795-01780	SEAL, OIL	1							
19	1	129486-01670	BOLT, M8X30	6							
20	1	26106-080352	BOLT, M8X 35 PLATED	3							
21	1	26106-080502	BOLT, M8X 50 PLATED	4							W
(A=FROM 1ST)											

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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PARTS.

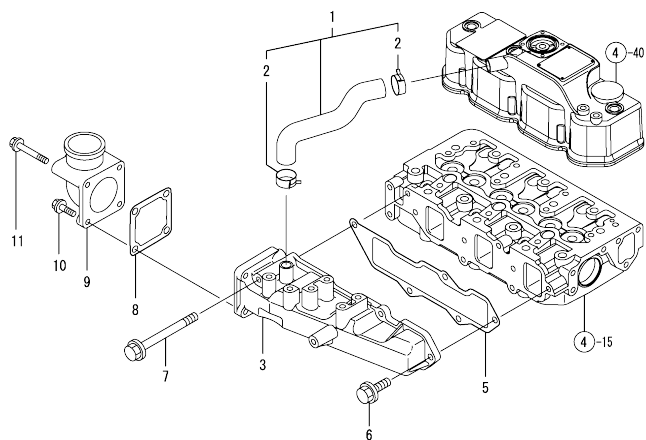
OCD10-M98400 Fig.4

(A)=3TNV88-BQIK
(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	26106-080142	BOLT, M8X 14 PLATED	4							
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	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	129004-11650	ARM, 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							
21	2	27241-400000	PLUG, 40	2							
22	2	129005-11100	VALVE, INTAKE	3							
23	2	129100-11112	VALVE, EXHAUST	3							
24	2	129795-11120	SPRING, VALVE	6							
25	2	129795-11180	RETAINER, SPRING	6							
26	2	121400-11340	SEAL, VALVE STEM	3							
27	2	124460-11340	SEAL, VALVE STEM	3							
28	2	27310-080001	COTTER, 8	6							
30	1	120130-11860	GUIDE, VALVE	3							1
31	1	129150-11810	GUIDE, VALVE	3							1
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	COVER, FILLER	1							
40	1	129004-11350	BONNET ASSY, HEAD	1							
41	2	129004-03010	PLATE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
49	2	129004-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW, 5X10	4							
51	2	22857-500100	SCREW, 5X10	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING, 1AP12.0	3							
54	1	24311-000320	O-RING, 1AP32.0	1							
55	1	119802-11870	PROTECTOR, NOZZLE	3							
56	1	129008-77800	PLUG, GLOW	3							
57	1	129008-77820	CONNECTOR, GLOW PLUG	1							
58	1	119803-77830	HARNESS, WIRE	1							
67	1	119226-07900	LIFTER	1							

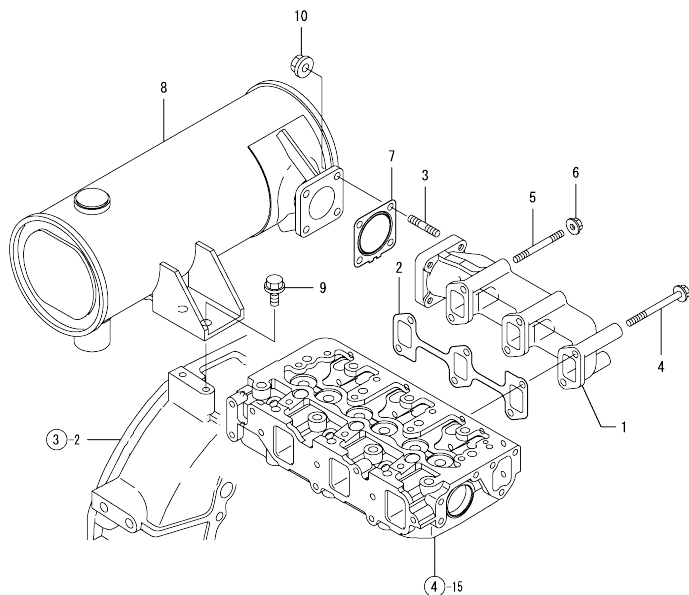
N:Old $\frac{100}{100}$ New, O:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD & AIR CLEANER



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:Qty Change

Fig.6. EXHAUST MANIFOLD & SILENCER



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

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

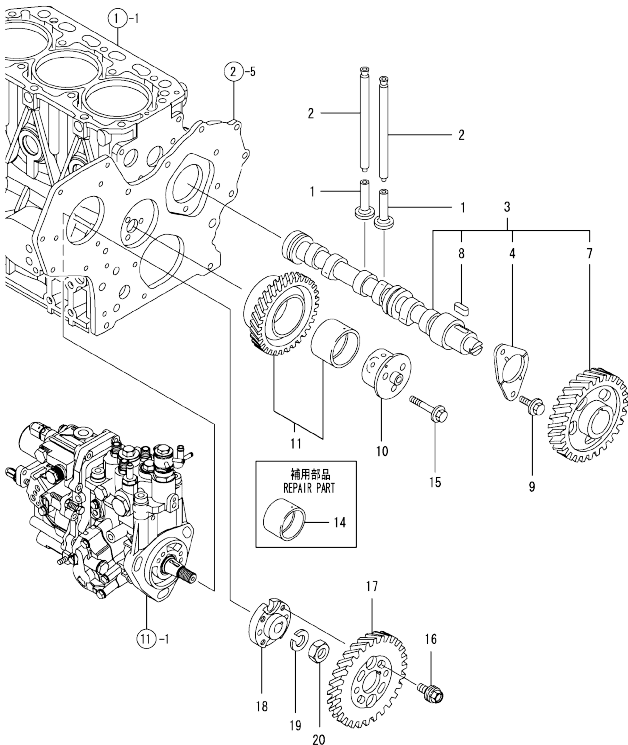
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-13129	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET	1							
3	1	119131-18320	STUD, M8X22	4							
4	1	123900-13630	BOLT, M8X80	4							
5	1	123900-13610	STUD, M8X80	2							
6	1	26306-080002	NUT, M8	2							
7	1	129004-13200	GASKET, SILENCER	1							
8	1	129240-13550	SILENCER	1							
9	1	26106-100202	BOLT, M10X 20 PLATED	2							
10	1	26306-080002	NUT, M8	4							

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

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Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

OCD10-M98400 Fig.7

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

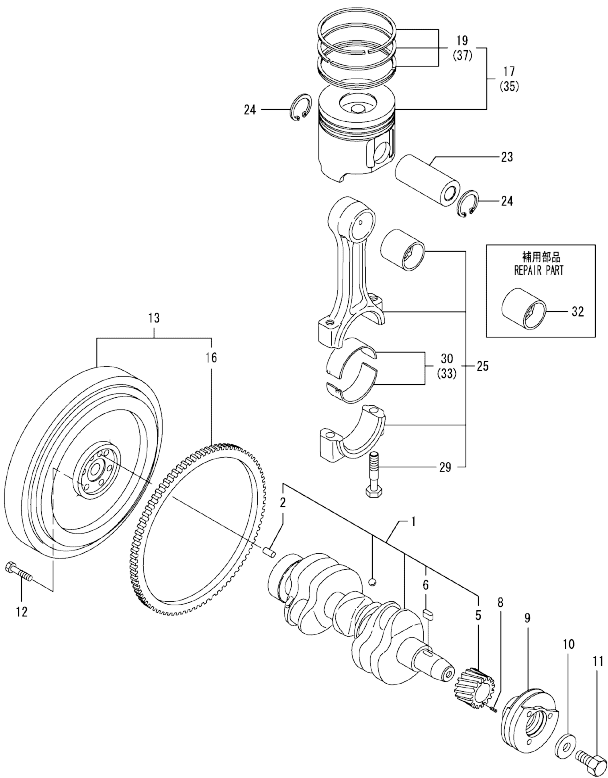
(D)=
(E)=
(F)=

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	ROD, PUSH L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY, 7X 14	1							
9	1	26106-080142	BOLT, M8X 14 PLATED	2							
10	1	119803-25050	SHAFT, IDLE	1							
11	1	119802-25101	GEAR ASSY, IDLE	1							
14	1	119802-25071	BUSH, IDLE GEAR	1							1
15	1	26106-080402	BOLT, M8X 40 PLATED	3							
16	1	129150-25301	BOLT	4							
17	1	119802-25901	GEAR, PUMP	1							
18	1	158552-51151	FLANGE	1							
19	1	22217-140000	WASHER, SPRING 14	1							
20	1	26776-140002	NUT, LOCK M14	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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OCD10-M98400 3TNV88-BQIK

Fig.8. CRANKSHAFT & PISTON



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

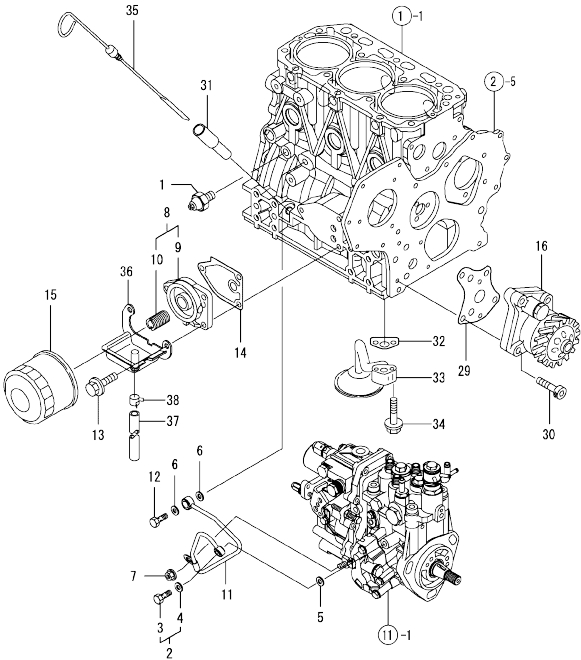
OCD10-M98400 Fig.8

(A)=3TNV88-BQIK
(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, M8X16	1							
5	2	119803-21200	GEAR, CRANKSHAFT	1							
6	2	22512-070140	KEY, 7X 14	1							
8	1	22351-030010	PIN, SPRING 3.0X10	1							
9	1	129005-21650	V-PULLEY, 120	1							
10	1	129795-21661	WASHER	1							
11	1	121850-21680	BOLT	1							
12	1	121111-21501	BOLT, FLYWHEEL	6							
13	1	129211-21590	FLYWHEEL ASSY	1							
16	2	119865-21600	GEAR, RING	1							
17	1	129005-22080	PISTON ASSY	3							
19	2	129005-22500	RING SET, PISTON	3							
23	1	129202-22300	PIN, PISTON D26 L70	3							
24	1	22252-000260	RING, 26	6							
25	1	729402-23100	ROD ASSY, CONNECTING	3							
29	2	121550-23200	BOLT, CONNECTING ROD	6							
30	2	129150-23601	BEARING, CRANK PIN	3							
32	1	129100-23910	BEARING, PISTON PIN	3							1
33	1	129150-23611	BEARING, 0.25 US	3							2
35	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
37	2	129005-22950	RING SET, 0.25 OS	3							3

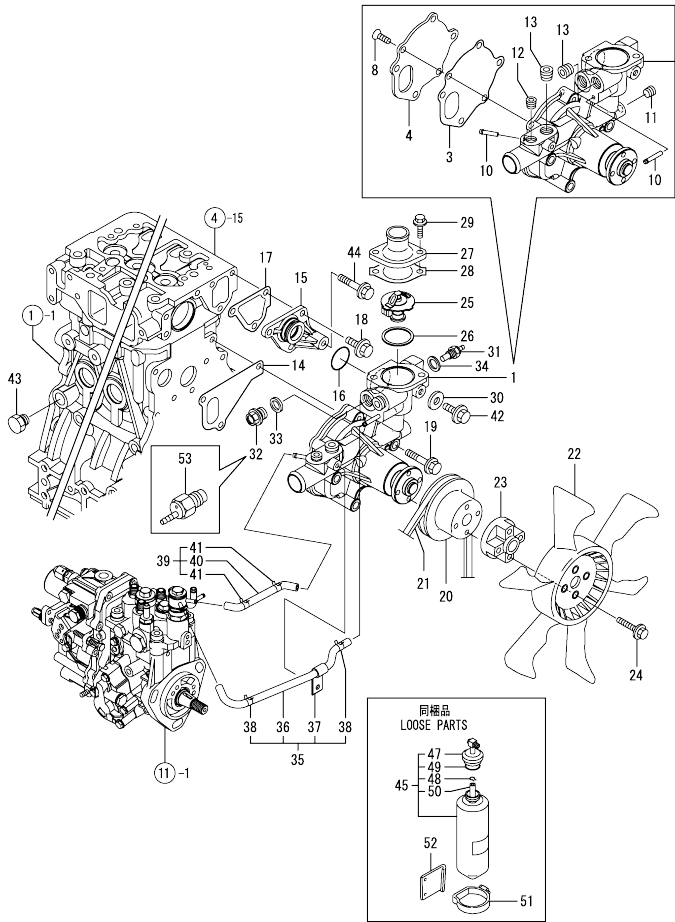
OCD10-M98400 3TNV88-BQIK
Fig.9. LUB. OIL SYSTEM



Remarks
(1) REPAIR PART.

OCD10-M98400 Fig.9									
(A)=3TNV88-BQIK									
(D)=									
(E)=									
(F)=									
Q'ty									
I R									
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	121252-39450	SWITCH, 0.5KG	1					
2	1	129005-59830	BOLT ASSY, JOINT M8	1					
3	2	23857-030000	BOLT, JOINT 3	1					
4	2	22190-080002	WASHER, SEAL 6	1					
5	1	22190-080002	WASHER, SEAL 6	1					
6	1	22190-100002	WASHER, SEAL 10	2					
7	1	26366-060002	NUT, M6	1					
8	1	119802-35100	BRACKET ASSY, FILTER	1					
9	2	119802-35110	BRACKET, FILTER	1					
10	2	129100-35140	STUD	1					
11	1	119802-39450	PIPE ASSY, OIL	1					
12	1	124160-39140	BOLT, PIPE JOINT M10	1					
13	1	26106-080202	BOLT, M8X 20 PLATED	3					
14	1	129150-35111	GASKET	1					
15	1	129150-35153	FILTER 80X80L	1					1
16	1	129001-32001	PUMP ASSY, OIL	1					
29	1	129150-32020	GASKET, PUMP	1					
30	1	26450-060252	BOLT, M6X 25	4					
31	1	121520-34810	GUIDE, DIPSTICK	1					
32	1	129150-35042	GASKET	1					
33	1	129100-35301	PIPE ASSY, OIL INLET	1					
34	1	26106-080352	BOLT, M8X 35 PLATED	2					
35	1	129004-34802	DIPSTICK, OIL	1					
36	1	129240-35800	OIL PAN	1					
37	1	23065-120230	PIPE, 12X 230	1					
38	1	23080-014000	CLAMP, 14	1					

Fig.10. COOLING WATER SYSTEM

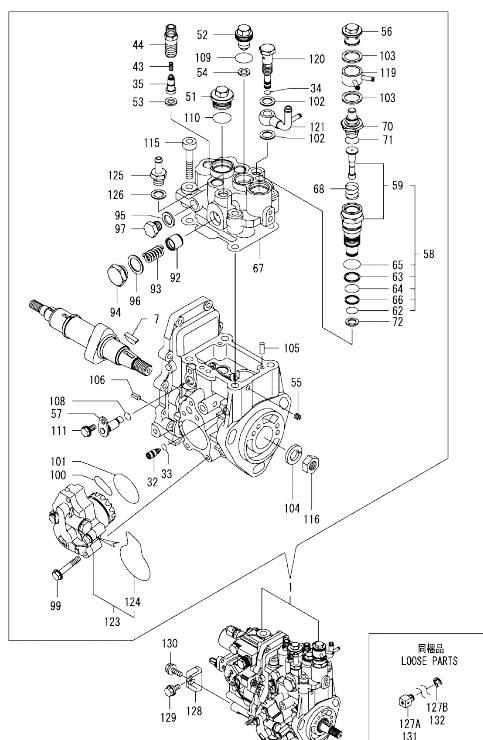


(A)=3TNV88-BQIK
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE	1							
8	2	121850-42410	SCREW	3							
10	2	119802-49113	JOINT, PIPE	2							
11	2	23876-010000	PLUG, R01	1							
12	2	23876-020000	PLUG, R02	1							
13	2	129916-49740	PLUG, R03	2							
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	1							
18	1	26106-080162	BOLT, M8X 16 PLATED	3							
19	1	26106-080602	BOLT, M8X 60 PLATED	3							
20	1	129556-42350	V-PULLEY, 96	1							
21	1	25152-003800	V-BELT, A38	1							
22	1	171340-44740	FAN, COOLING D335XNF	1							
23	1	171353-44760	SPACER, FAN	1							
24	1	26106-060402	BOLT, M6X 40 PLATED	4							
25	1	129155-49801	THERMOSTAT, 71	1							
26	1	129150-49811	GASKET, THERMOSTAT	1							
27	1	129350-49530	COVER, THERMOSTAT	1							
28	1	129795-49551	GASKET	1							
29	1	26106-080222	BOLT, M8X 22 PLATED	2							
30	1	23414-080000	GASKET, 8X1.0	1							
31	1	171056-49351	SENSOR	1							
31-1	1	119266-49350	SWITCH	1							N
32	1	121450-42450	PLUG, M16	1							Z
33	1	124465-44950	GASKET, 16	1							
34	1	129150-49360	GASKET	1							
35	1	129004-49610	PIPE ASSY, WATER	1							
36	2	129004-49711	PIPE ASSY, WATER	1							
37	2	119802-49730	RETAINER, PIPE	1							
38	2	124722-59050	CLIP, HOSE 9	2							
39	1	129004-49620	PIPE ASSY, WATER	1							
40	2	129004-49721	PIPE ASSY, WATER	1							
41	2	124722-59050	CLIP, HOSE 9	2							
42	1	26106-080122	BOLT, M8X 12 PLATED	1							
43	1	171056-49120	PLUG, DRAIN	1							
44	1	26106-080452	BOLT, M8X 45 PLATED	1							
45	1	171064-44510	TANK ASSY, SUB	1							
47	2	121450-44531	CAP	1							
48	2	124450-44560	RETAINER	1							
49	2	121470-44581	GASKET	1							
50	2	23065-070225	HOSE 7X 225	1							
51	1	124450-44550	BAND	1							
52	1	121256-44600	BRACKET, SUB TANK	1							
53	1	121250-44901	SWITCH, 110	1							W

N:Old $\frac{NBS}{100}$ New, Q:Old $\frac{H10}{100}$ New, R:Old $\frac{NBS}{100}$ New, S:Old $\frac{H10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729236-51300	PUMP ASSY, INJECTION	1							1
1-1	1	729236-51301 (A=EZZZZZ)	PUMP ASSY, INJECTION	1						N	1
1-2	1	729236-51580 (A=EZZZZZ)	INJECTION PUMP ASSY	1						N	2
7	2	119802-51090	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							
35	2	129008-51300	VALVE ASSY, DELIVERY	3							
43	2	158563-51330	SPRING, DELIVERY	3							
44	2	129008-51340	HOLDER, DELIVERY	3							
51	2	158601-51550	PLUG	1							
52	2	119802-51560	PLUG, BARREL	1							
53	2	158552-51570	GASKET	3							
54	2	158552-51570	GASKET	1							
55	2	158557-51570	PLUG	1							
56	2	158601-51570	PLUG	1							
57	2	158552-51580	LIFTER	1							
58	2	119802-51590	TIMER SET	1							
59	3	119802-51600	TIMER ASSY	1							
62	3	158553-51670	O-RING, 1011	1							
63	3	119802-51680	RING, BACK UP	1							
64	3	119802-51690	O-RING	1							
65	3	24356-010200	O-RING, 4D1020	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	ELEMENT	1							
71	2	158553-51660	O-RING, P14	1							
72	2	158553-51680	GASKET	1							
92	2	158601-51770	PISTON	1							
93	2	158552-51781	SPRING	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							
99	2	158553-51770	BOLT	4							
100	2	158552-52310	O-RING	1							
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 MSX14	2							
106	2	22351-050010	PIN, SPRING 5.0X10	2							
108	2	24311-000070	O-RING, 1AP7.0	1							
109	2	24356-010180	O-RING, 4D1018	1							
110	2	24356-010200	O-RING, 4D1020	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							

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
 ++ CONTINUE ++
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Remarks
(1) Governor assy (Fig.12) is incorporated in this FOP.cmp (Ref.No.1).
(2) Governor assy (Fig.12) is incorporated in this FOP.cmp (Ref.No.1-2).
Ref.No.127A,127B are incorporated in this FOP.cmp.

Fig.11. FUEL INJECTION PUMP



(1) Governor assy (Fig.12) is incorporated in this FOP.cmp (Ref.No.1).

(2) Governor assy (Fig.12) is incorporated in this FOP.cmp (Ref.No.1-2).

Ref.No.127A,127B are incorporated in this FOP.cmp.

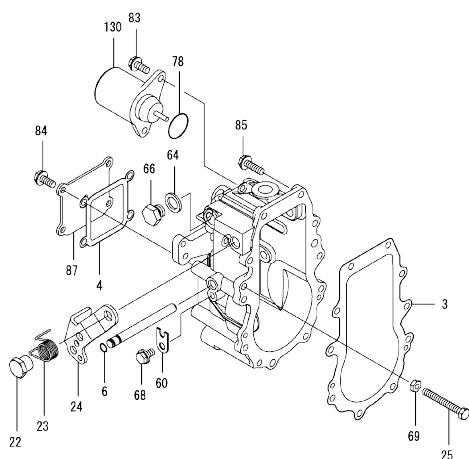
(D)=
(E)=
(F)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
119	2	158553-51551	JOINT	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							
127A	2	124756-67510 (A=EZZZZZ)	RETAINER	1							W
127B	2	22272-000070 (A=EZZZZZ)	RING, E- 7	1							W
128	1	119802-51250	RETAINER, PUMP	1							
129	1	26106-080162	BOLT, M&X 16 PLATED	1							
130	1	26106-080202	BOLT, M&X 20 PLATED	1							
131	1	124756-67510 (A=EZZZZZ)	RETAINER	1							Z
132	1	22272-000070 (A=EZZZZZ)	RING, E- 7	1							Z

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.12. GOVERNOR



Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.11).

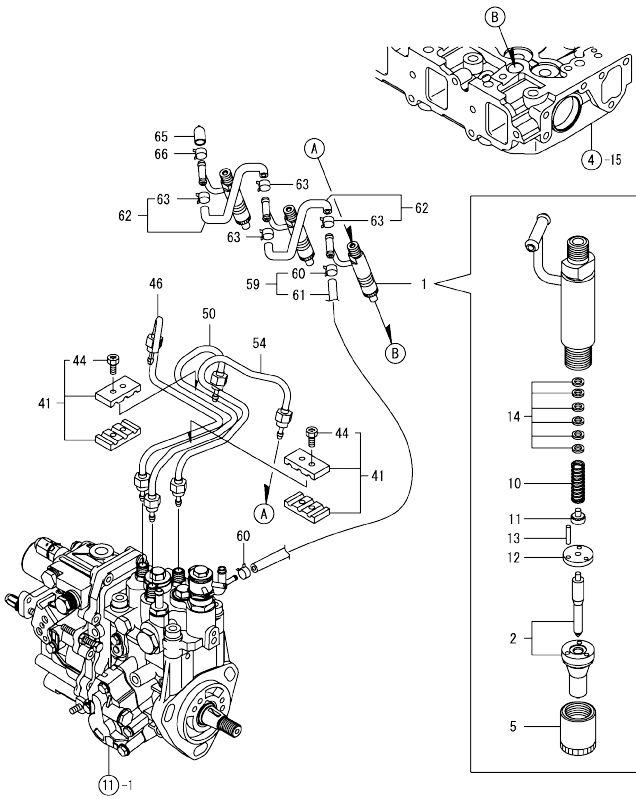
(A)=3TNV88-BQIK
(B)=
(C)=

(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, LOCK	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	158552-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, IDLE	1							
60	2	119660-61901	RETAINER, SHAFT	1							
64	2	22190-120000	WASHER, SEAL 12	1							
66	2	23887-120002	PLUG, 12	1							
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	1							
130	2	119233-77932	SOLENOID, STOP	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.13. FUEL INJECTION VALVE



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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729236-53100	VALVE ASSY,INJECTION	3							
2	2	129236-53000	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
10	2	114250-53120	SPRING, NOZZLE	3							
11	2	114250-53130	SEAT, SPRING	3							
12	2	114250-53140	PLATE	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	PIPE ASSY, RETURN	1							
60	2	124722-59050	CLIP, HOSE 9	2							
61	2	119802-59560	PIPE, FUEL RETURN	1							
62	1	129486-59551	PIPE ASSY, RETURN	2							
63	2	124722-59050	CLIP, HOSE 9	4							
65	1	119593-59581	CAP	1							
66	1	124060-77680	CLIP, HOSE 10	1							

Fig.14. FUEL LINE

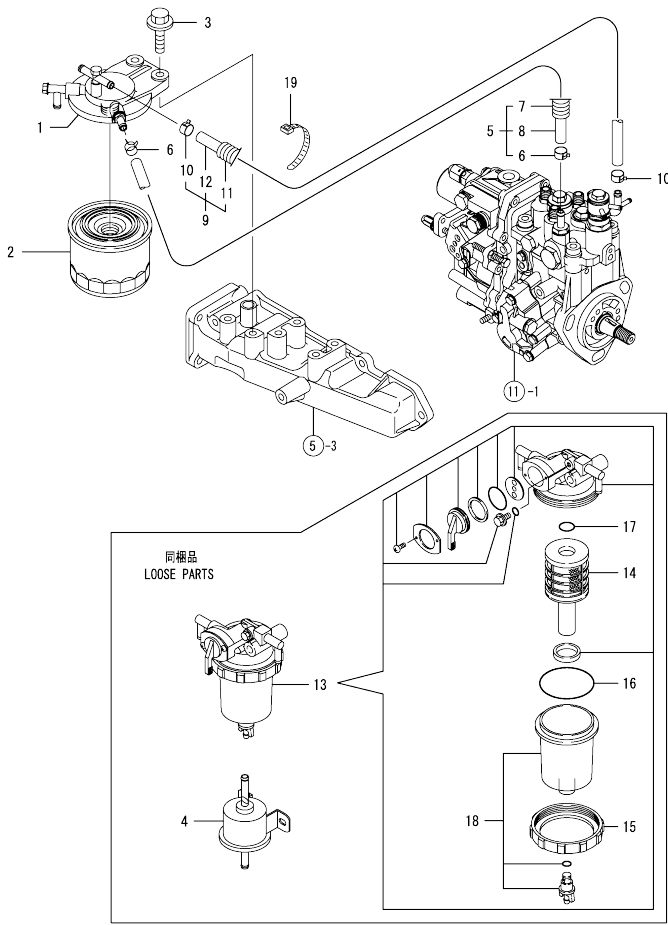
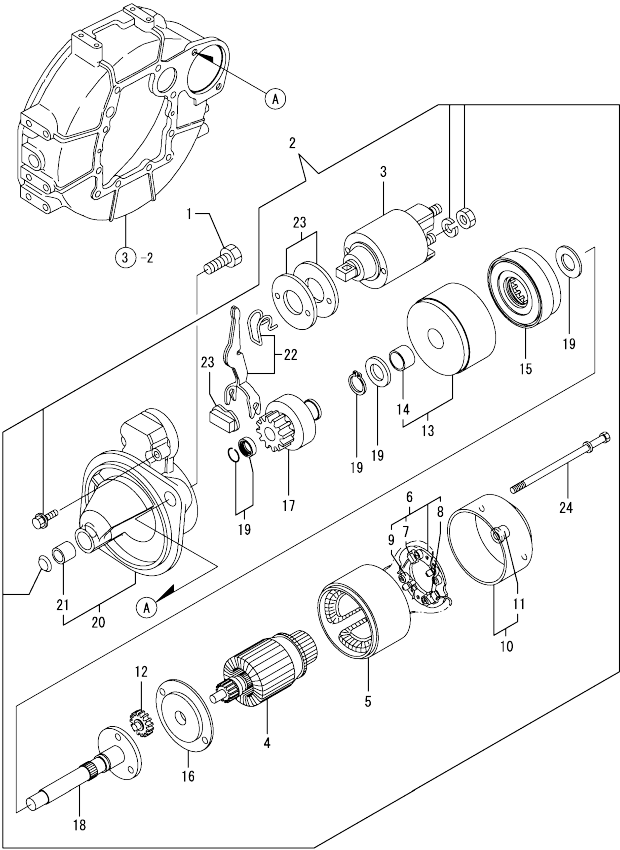


Fig.15. STARTING MOTOR



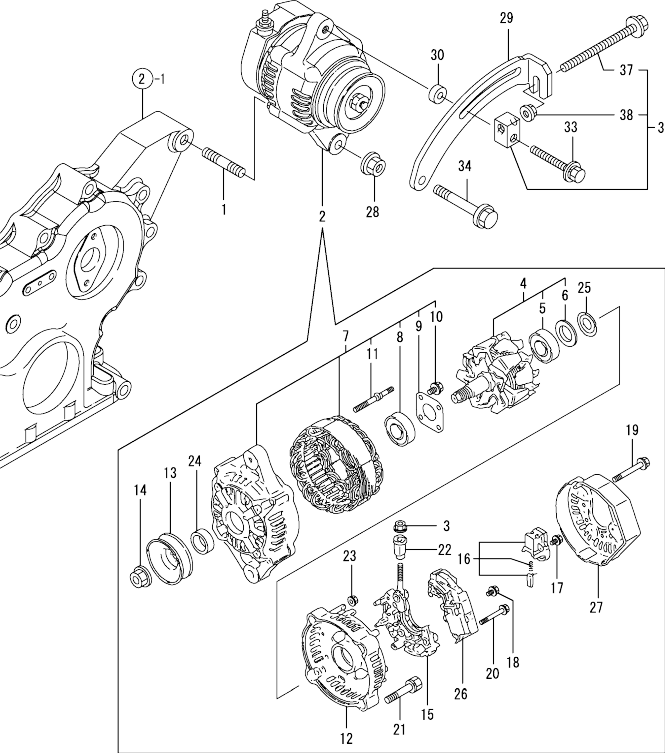
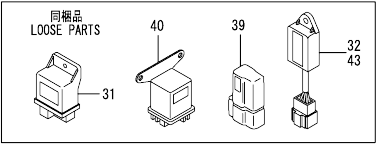
(A)=3TNV88-BQIK
(B)=
(C)=

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

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

OCD10-M98400 3TNV88-BQIK

Fig.16. GENERATOR



OCD10-M98400 Fig.16

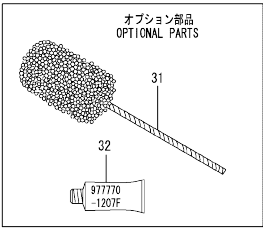
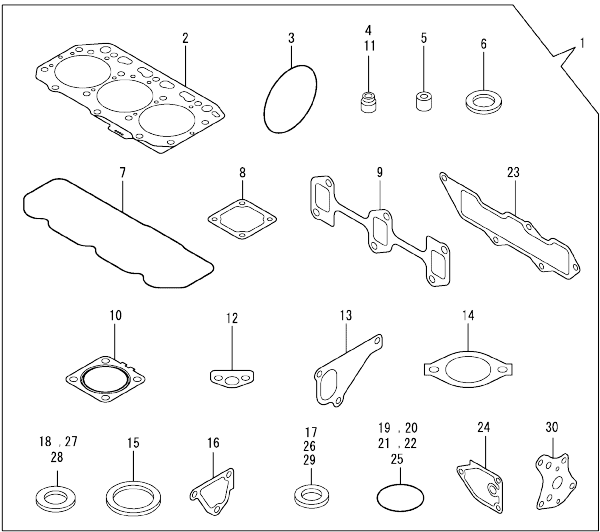
(A)=3TNV88-BQIK
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	STUD	1							
2	1	129240-77200	ALTERNATOR	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	126501-79240	BALL BEARING	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-77421	FRAME ASSY, DRIVE	1							
8	3	119620-79200	BALL BEARING	1							
9	3	119620-79210	PLATE	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	BOLT, STUD	2							
12	2	119620-77440	FLAME ASSY, REAR	1							
13	2	119620-77461	PULLEY	1							
14	2	119620-77471	NUT	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	119620-79310	BOLT	3							
20	2	119620-79320	SCREW W/WASHER	2							
21	2	119620-79330	BOLT	2							
22	2	119620-79340	INSULATION BUSH	1							
23	2	119620-79350	NUT	2							
24	2	119620-77490	COLLAR	1							
25	2	119620-79360	WASHER, THRUST	1							
26	2	129240-77710	REGULATOR ASSY	1							
27	2	129240-79300	COVER	1							
28	1	26306-100002	NUT, M10	1							
29	1	129240-77320	ADJUSTER	1							
30	1	119940-77270	SPACER, GENERATOR	1							
31	1	119802-77200	RELAY, SAFETY	1							
32	1	129211-77920	TIMER	1							
33	1	26106-080552	BOLT, M8X 55 PLATED	1							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	119624-77351	BLOCK ASSY, ADJUSTER	1							
37	2	26106-081004	BOLT, M8X100 PLATED	1							
38	2	26306-080002	NUT, M8	1							
39	1	119643-66900	DIODE	1							
40	1	119650-77910	RELAY ASSY, GLOW	1							
43	1	128300-77920	TIMER	1							

OCD10-M98400 3TNV88-BQIK

Fig.17. GASKET SET



Remarks
(1) OPTIONAL PARTS.

OCD10-M98400 Fig.17

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719823-92920	GASKET SET	1							1
2	2	129001-01340	GASKET, HEAD	1							
3	2	121850-51960	O-RING	1							
4	2	124460-11340	SEAL, VALVE STEM	3							
5	2	119802-11870	PROTECTOR, NOZZLE	3							
6	2	119625-11880	SEAT, NOZZLE	3							
7	2	129004-11310	GASKET, BONNET	1							
8	2	129150-77511	GASKET	1							
9	2	129150-13110	GASKET	1							
10	2	129004-13200	GASKET, SILENCER	1							
11	2	121400-11340	SEAL, VALVE STEM	3							
12	2	129150-35042	GASKET	1							
13	2	129486-42021	GASKET, WATER PUMP	1							
14	2	129795-49551	GASKET	1							
15	2	129150-49811	GASKET, THERMOSTAT	1							
16	2	124395-49840	GASKET	1							
17	2	22190-080002	WASHER, SEAL 6	2							
18	2	124465-44950	GASKET, 16	1							
19	2	24311-000120	O-RING, 1AP12.0	3							
20	2	24311-000320	O-RING, 1AP32.0	2							
21	2	24341-000240	O-RING, 1AS24.0	1							
22	2	129486-42140	O-RING, G30	1							
23	2	129001-12110	GASKET, MANIFOLD	1							
24	2	129150-35111	GASKET	1							
25	2	119609-32040	O-RING, P16	2							
26	2	22190-100002	WASHER, SEAL 10	2							
27	2	23414-080000	GASKET, 8X1.0	1							
28	2	129150-49360	GASKET	1							
29	2	22190-220002	WASHER, SEAL 22	1							
30	2	129150-32020	GASKET, PUMP	1							
31	1	129400-92430	HONE	1							1
32	1	977770-1207F	GASKET, LIQUID	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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114250-53080	13	5
114250-53120	13	10
114250-53130	13	11
114250-53140	13	12
114250-53210	13	13
118400-77170	15	12
119131-18320	6	3
119225-52102	14	4
119226-07900	4	67
119233-77932	12	130
119266-49350	10	31 -1
119593-59581	13	65
119609-32040	2	10
	17	25
119620-01750	3	3
119620-77380	16	4
119620-77421	16	7
119620-77440	16	12
119620-77461	16	13
119620-77471	16	14
119620-77490	16	24
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
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119620-79310	16	19
119620-79320	16	20
119620-79330	16	21
119620-79340	16	22
119620-79350	16	23
119620-79360	16	25
119624-77351	16	35
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119640-01640	3	9
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119802-01561	2	6
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119802-25071	7	14
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119802-51090	11	7
119802-51250	11	128
119802-51560	11	52
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119803-53400	13	14
119803-77520	5	9
119803-77830	4	58
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119808-12520	5	14
119808-12540	5	15
119865-21600	8	16
119934-01800	2	4
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119940-77270	16	30
120130-11860	4	30
120270-54410	4	34
121023-01551	2	17
121111-21501	8	12
121250-44901	10	53
121252-39450	9	1
121256-44600	10	52
121400-11340	4	26
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121450-42450	10	32
121450-44531	10	47
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121520-34810	9	31
121550-23200	8	29
121750-59890	14	19
121850-21680	8	11
121850-42410	10	8
121850-51960	2	11
	17	3
123900-13610	6	5
123900-13630	6	4
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124060-77680	13	66
124160-01751	2	7
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124160-01910	1	7
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124160-11360	4	52
124160-39140	9	12
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126650-12680	5	17
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129001-02931	1	30
129001-12110	5	5
	17	23
129001-32001	9	16
129001-91841	2	12
129004-03010	4	41
129004-03080	5	1
129004-11241	4	3
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