

0CW10-M48100EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV88-GGEHC for HIMOINSA.

Pub.No. : 0CW10-G48100

Published : November, 2008

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV88-GGEHC	GENERATOR	HIMOINSA

Directions for the Parts Catalog.

1. This Parts Catalog shows both standard and optional parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST COMPENSATOR TYPE. OPTIONAL PART, TO E00155, (4JH-DT, 4JH-DTZ)

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New $\xrightarrow{\text{No}}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{Yes}}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New $\xrightarrow{\text{Yes}}$ New	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{No}}$ New	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

Figures or alphabets (symbols) are entered in the remarks column.

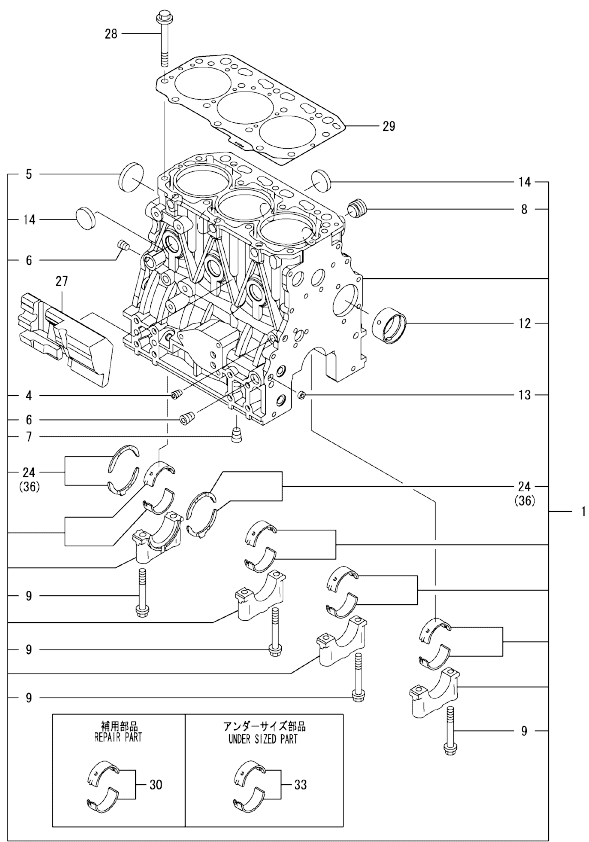
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

Contents

0CW10-M48100

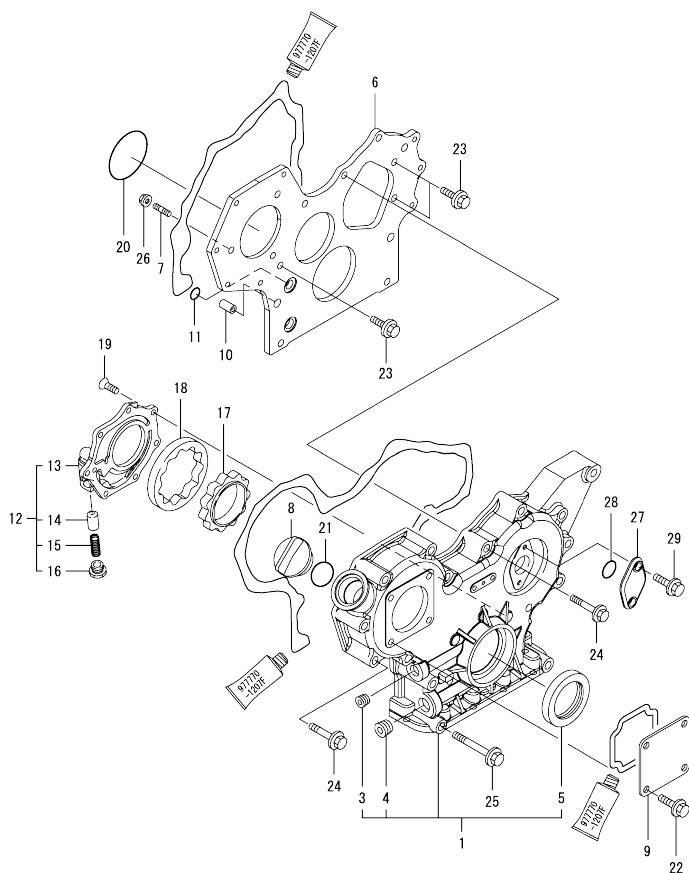
Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNV88-GGEHC			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FUEL INJECTION VALVE		
14.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

0CW10-M48100 3TNV88-GGEHC
Fig.1. CYLINDER BLOCK



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

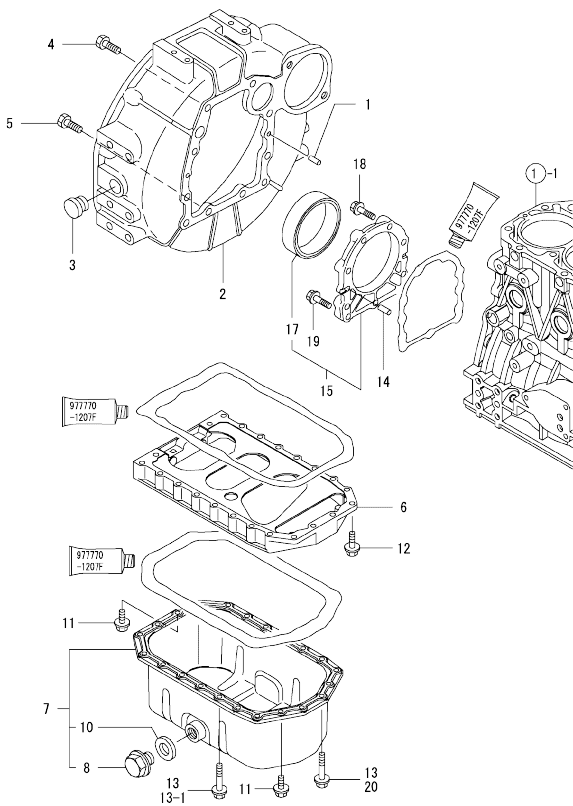
					0CW10-M48100 Fig.1								
					(A)=3TNV88-GGEHC		(D)=						
					(B)=		(E)=						
					(C)=		(F)=						
No.	Lev.	Parts No.	Description		Q'ty						I	R	
					(A)	(B)	(C)	(D)	(E)	(F)			
1	1	729005-01560	BLOCK ASSY, CYLINDER		1								
4	2	124060-01050	PLUG, PT1/8		1								
5	2	129001-01250	PLUG, 50		1								
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, THRUST		2								
27	1	129004-01190	SPACER		1								
28	1	129150-01200	BOLT, HEAD		14								
29	1	129001-01340	GASKET, HEAD		1								
30	1	129001-02931	BEARING, MAIN		4								
33	1	129150-02871	BEARING, 0.25 US		4								1
36	1	129150-02941	BEARING, THRUST 0.25		1								2



				(A)=3TNV88-GGEHC (B)= (C)=		(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	719802-01500	CASE ASSY, GEAR	1						
3	2	23876-030000	PLUG, R03	1						
4	2	23876-040000	PLUG, R04	1						
5	2	119934-01800	SEAL, OIL	1						
6	1	119802-01520	FLANGE, GEAR CASE	1						
7	1	119802-01561	STUD, M8X25	3						
8	1	124160-01751	COVER, FILLER	1						
9	1	124240-01871	COVER	1						
10	1	129795-01950	PIPE, KNOCK L=18	2						
11	1	119609-32040	O-RING, P16	4						
12	1	119802-32100	COVER ASSY	1						
13	2	119802-32070	COVER	1						
14	2	129900-32130	VALVE, RELIEF	1						
15	2	129418-32320	SPRING	1						
16	2	129001-32330	PLUG	1						
17	1	119802-32111	ROTOR, INNER	1						
18	1	119802-32120	ROTOR, OUTER	1						
19	1	119802-32130	SCREW, M6X16	7						
20	1	121850-51960	O-RING	1						
21	1	24311-000320	O-RING, 1AP32.0	1						
22	1	26106-080162	BOLT, M8X 16 PLATED	4						
23	1	26106-080162	BOLT, M8X 16 PLATED	3						
24	1	26106-080552	BOLT, M8X 55 PLATED	12						
25	1	26106-080852	BOLT, M8X 85 PLATED	3						
26	1	26306-080002	NUT, M8	3						
27	1	121023-01551	COVER	1						
28	1	24341-000240	O-RING, 1AS24.0	1						
29	1	26106-060162	BOLT, M6X 16 PLATED	2						

0CW10-M48100 3TNV88-GGEHC

Fig.3. FLYWHEEL HOUSING & OIL SUMP



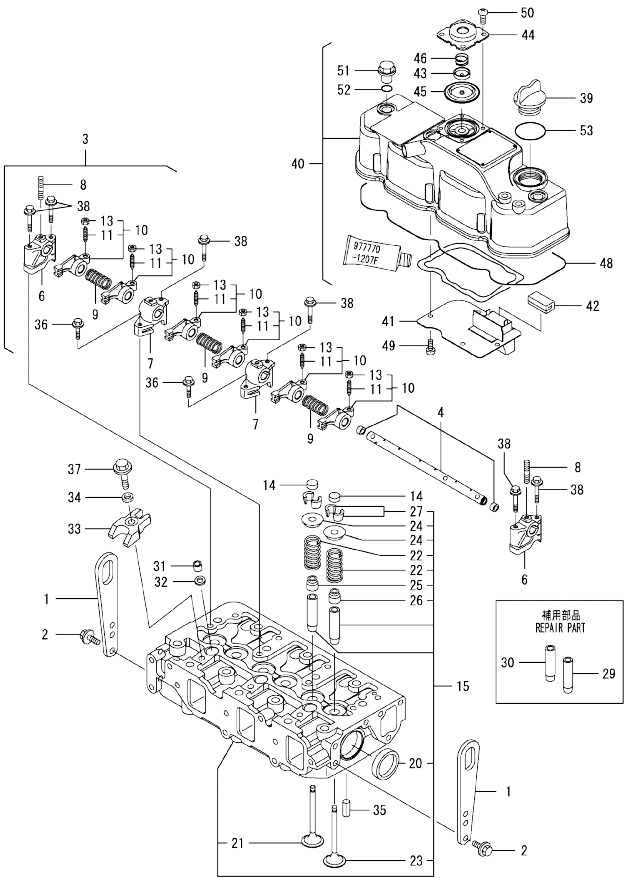
0CW10-M48100 Fig.3

(A)=3TNV88-GGEHC
(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	171420-01600	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							
7	1	129100-01760	SUMP ASSY, OIL	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=FROM 1ST)											
14	1	129100-01580	PIN, M8X16	2							
15	1	129648-01600	CASE ASSY, OIL SEAL	1							
17	2	129648-01780	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=FROM 1ST)											

Fig.4. CYLINDER HEAD & BONNET



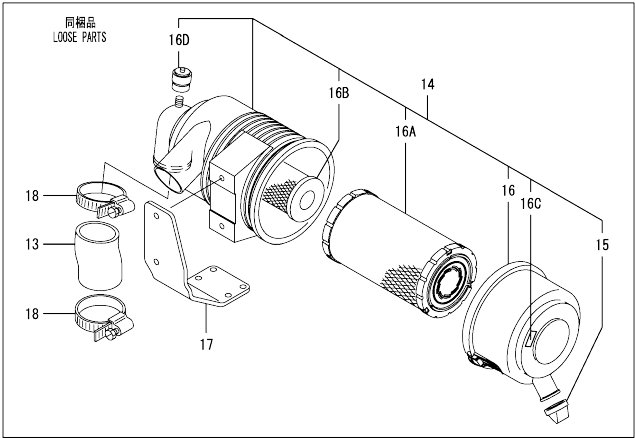
Remarks
(1) REPAIR PART.

(A)=3TNV88-GGEHC
(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	2							
2	1	26106-080162	BOLT, M8X 16 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	129004-11700	HEAD ASSY, CYLINDER	1							
20	2	27241-400000	PLUG, 40	2							
21	2	129100-11112	VALVE, EXHAUST	3							
22	2	129795-11120	SPRING, VALVE	6							
23	2	129004-11130	VALVE, INTAKE	3							
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	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							
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							

Fig.5. SUCTION MANIFOLD & AIR CLEANER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-03080	PIPE , BREATHER	1							
2	2	129410-03990	CLIP	2							
3	1	129004-12101	MANIFOLD, AIR INTAKE	1							
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	129100-77501	HEATER	1							
8	1	129100-77510	GASKET	1							
9	1	129150-77511	GASKET	1							
10	1	171340-77520	BEND	1							
11	1	26106-080402	BOLT, M8X 40 PLATED	2							
12	1	26106-080802	BOLT, M8X 80 PLATED	2							
13	1	119910-12210	PIPE, AIR INTAKE	1							
14	1	119802-12530	CLEANER ASSY, AIR	1							
15	2	119808-12540	VALVE, UNLOADER	1							
16	2	119866-12541	COVER ASSY	1							
16A	2	129004-12520	ELEMENT	1							W
(A=FROM 1ST)											
16B	2	129051-12530	ELEMENT	1							W
(A=FROM 1ST)											
16C	2	129612-12650	LABEL, MARKING	1							W
(A=FROM 1ST)											
16D	2	126650-12680	INDICATOR	1							W
(A=FROM 1ST)											
17	1	119802-12560	BRACKET, AIR CLEANER	1							
18	1	23000-070000	CLAMP, 70	2							

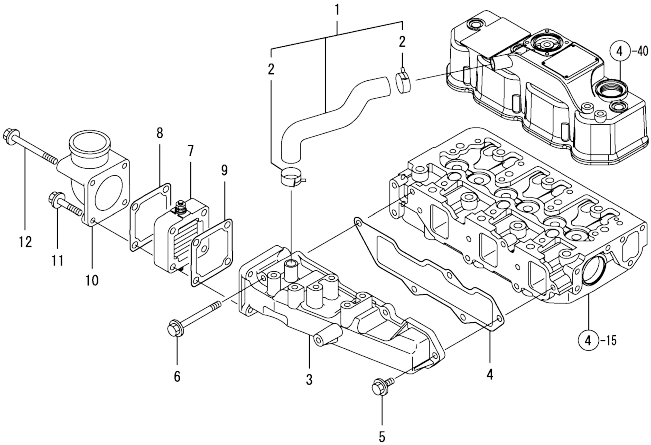
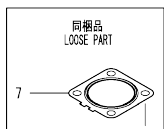
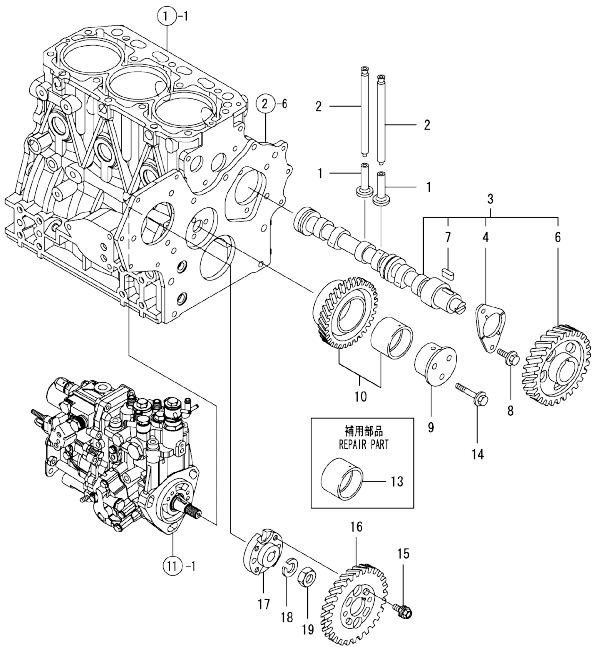


Fig.6. EXHAUST MANIFOLD



				(A)=3TNV88-GGEHC (B)= (C)=	0CW10-M48100 Fig.6 (D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-13109	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET	1							
3	1	123900-13610	STUD, M8X80	2							
4	1	123900-13630	BOLT, M8X80	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	129004-13200	GASKET, SILENCER	1							

Fig.7. CAMSHAFT & DRIVING GEAR

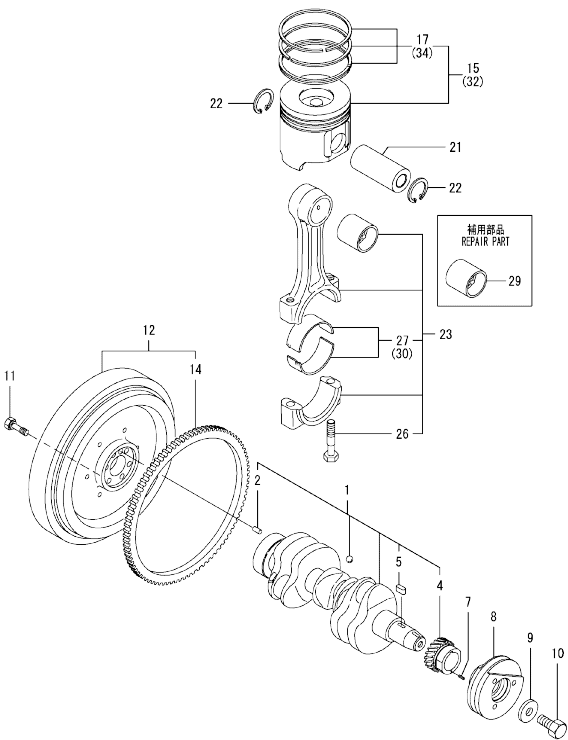


Remarks
(1) REPAIR PART.

										0CW10-M48100 Fig.7	
										(A)=3TNV88-GGEHC	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	129004-14580	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	119802-25051	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							
18	1	22217-140000	WASHER, SPRING 14	1							
19	1	26776-140002	NUT, LOCK M14	1							

0CW10-M48100 3TNV88-GGEHC

Fig.8. CRANKSHAFT & PISTON



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

0CW10-M48100 Fig.8

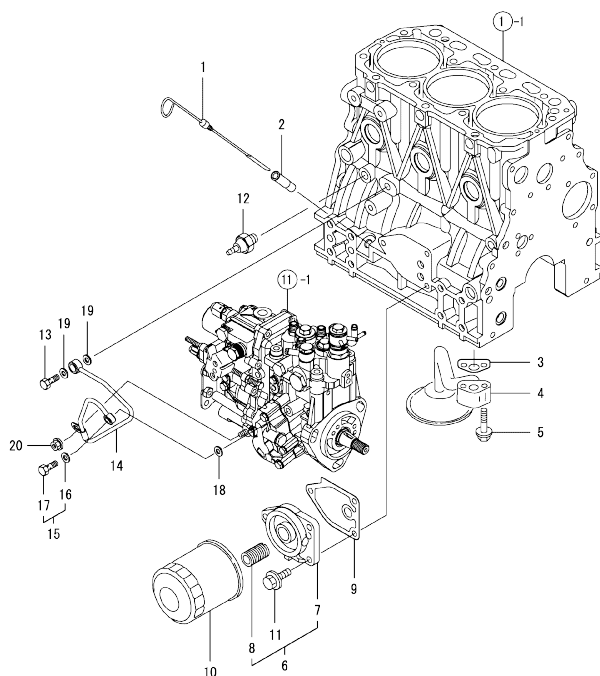
(A)=3TNV88-GGEHC
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-21002	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119802-21202	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	129005-21650	V-PULLEY, 120	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171340-21590	FLYWHEEL ASSY	1							
14	2	124550-21600	GEAR, RING	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							1
26	2	121550-23200	BOLT, CONNECTING ROD	6							
27	2	129150-23601	BEARING, CRANK PIN	3							
29	1	129100-23910	BEARING, PISTON PIN	3							1
30	1	129150-23611	BEARING, 0.25 US	3							2
32	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
34	2	129005-22950	RING SET, 0.25 OS	3							3

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.9. LUB.OIL SYSTEM



Remarks

Remarks
(1) REPAIR PART.

0CW10-M48100 Fig.9

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

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-34802	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	129150-35042	GASKET	1							
4	1	129100-35301	PIPE ASSY, OIL INLET	1							
5	1	26106-080352	BOLT, M8X 35 PLATED	2							
6	1	119802-35100	BRACKET ASSY, FILTER	1							
7	2	119802-35110	BRACKET, FILTER	1							
8	2	129100-35140	STUD	1							
9	1	129150-35111	GASKET	1							
10	1	119005-35170	FILTER, D80X100	1							1
11	1	26106-080202	BOLT, M8X 20 PLATED	3							
12	1	114250-39450	SWITCH, 0.5KG	1							
13	1	124160-39140	BOLT, PIPE JOINT M10	1							
14	1	119802-39450	PIPE ASSY, OIL	1							
15	1	129005-59830	BOLT ASSY, JOINT M8	1							
16	2	22190-080002	WASHER, SEAL 6	1							
17	2	23857-030000	BOLT, JOINT 3	1							
18	1	22190-080002	WASHER, SEAL 6	1							
19	1	22190-100002	WASHER, SEAL 10	2							
20	1	26366-060002	NUT, M6	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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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 ++ Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.10. COOLING WATER SYSTEM



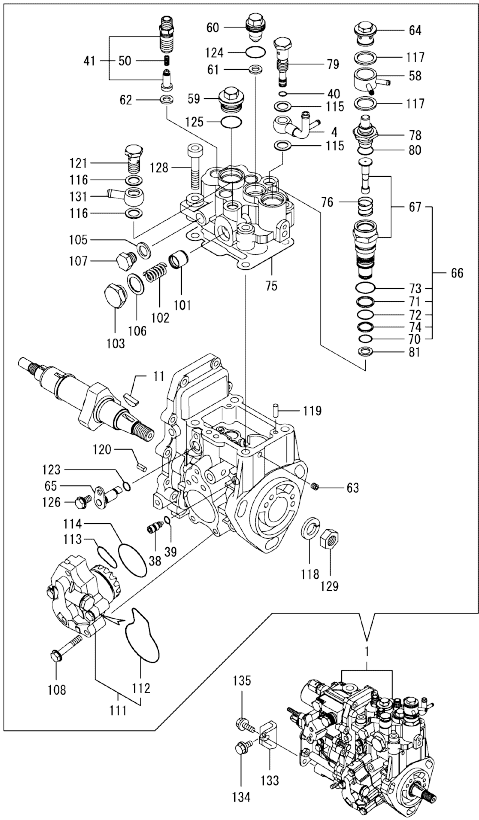
(D)=
(E)=
(F)=

[illegible]

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

0CW10-M48100 3TNV88-GGEHC

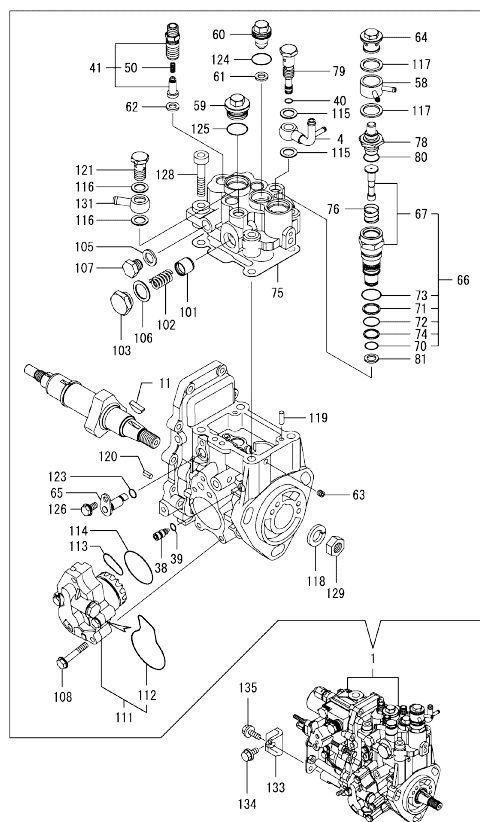
Fig.11. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

										0CW10-M48100 Fig.11	
										(A)=3TNV88-GGEHC (D)= (E)= (F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729247-51390	PUMP ASSY, INJECTION	1							1
4	2	158552-51670	JOINT, OVER FLOW	1							
11	2	119802-51090	KEY, 4X16	1							
38	2	158600-51270	STOPPER, TAPPET	1							
39	2	158563-51281	O-RING, 4D S6	1							
40	2	158563-51281	O-RING, 4D S6	1							
41	2	129509-51390	VALVE ASSY, DELIVERY	3							
50	3	158563-51330	SPRING, DELIVERY	3							
58	2	158553-51551	JOINT	1							
59	2	158601-51550	PLUG	1							
60	2	119802-51560	PLUG, BARREL	1							
61	2	158552-51571	GASKET	1							
62	2	158552-51571	GASKET	3							
63	2	158557-51570	PLUG	1							
64	2	158601-51570	PLUG	1							
65	2	158552-51580	LIFTER	1							
66	2	119802-51590	TIMER SET	1							
67	3	119802-51600	TIMER ASSY	1							
70	3	158553-51670	O-RING, 1011	1							
71	3	119802-51680	RING, BACK UP	1							
72	3	119802-51690	O-RING	1							
73	3	24356-010200	O-RING, 4D1020	1							
74	3	24372-000150	RING, BACK UP T2P15	1							
75	2	158552-51600	GASKET	1							
76	2	158553-51630	SPRING, TIMER	1							
78	2	158553-51640	ELEMENT	1							
79	2	158601-51650	JOINT, OVER FLOW	1							
80	2	158553-51660	O-RING, P14	1							
81	2	158553-51680	GASKET	1							
101	2	158601-51770	PISTON	1							
102	2	158552-51781	SPRING	1							
103	2	158601-51790	PLUG	1							
105	2	22190-120002	WASHER, SEAL 12	1							
106	2	22190-180002	WASHER, SEAL 18	1							
107	2	23887-120002	PLUG, 12	1							
108	2	158553-51770	BOLT	4							
111	2	158552-52100	PUMP ASSY, FUEL FEED	1							
112	3	158552-52500	O-RING	1							
113	2	158552-52310	O-RING	1							
114	2	158552-52400	O-RING, 4E S42	1							
115	2	22190-120002	WASHER, SEAL 12	2							
116	2	22190-120002	WASHER, SEAL 12	2							
117	2	22190-180002	WASHER, SEAL 18	2							
118	2	22217-140000	WASHER, SPRING 14	1							
119	2	22312-050140	PIN, PARALLEL M5X14	2							
120	2	22351-050010	PIN, SPRING 5.0X10	2							
121	2	23857-060000	BOLT, JOINT 6	1							
123	2	24311-000070	O-RING, 1AP7.0	1							
124	2	24356-010180	O-RING, 4D1018	1							
125	2	24356-010200	O-RING, 4D1020	1							
126	2	26106-060102	BOLT, M6X 10 PLATED	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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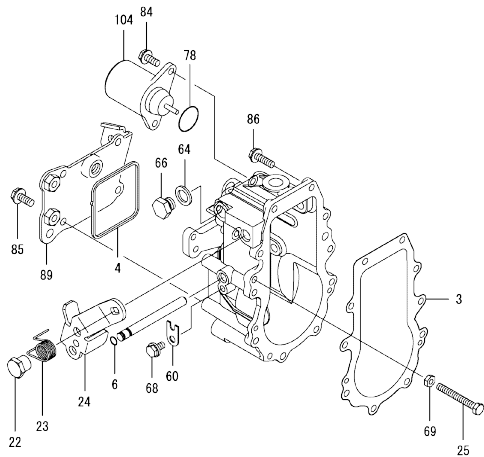


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
128	2	26450-080452	BOLT, M8X 45	4							
129	2	26776-140002	NUT, LOCK M14	1							
131	2	129916-59020	JOINT, PIPE 12	1							
133	1	119802-51250	RETAINER, PUMP	1							
134	1	26106-080162	BOLT, M8X 16 PLATED	1							
135	1	26106-080202	BOLT, M8X 20 PLATED	1							

Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

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

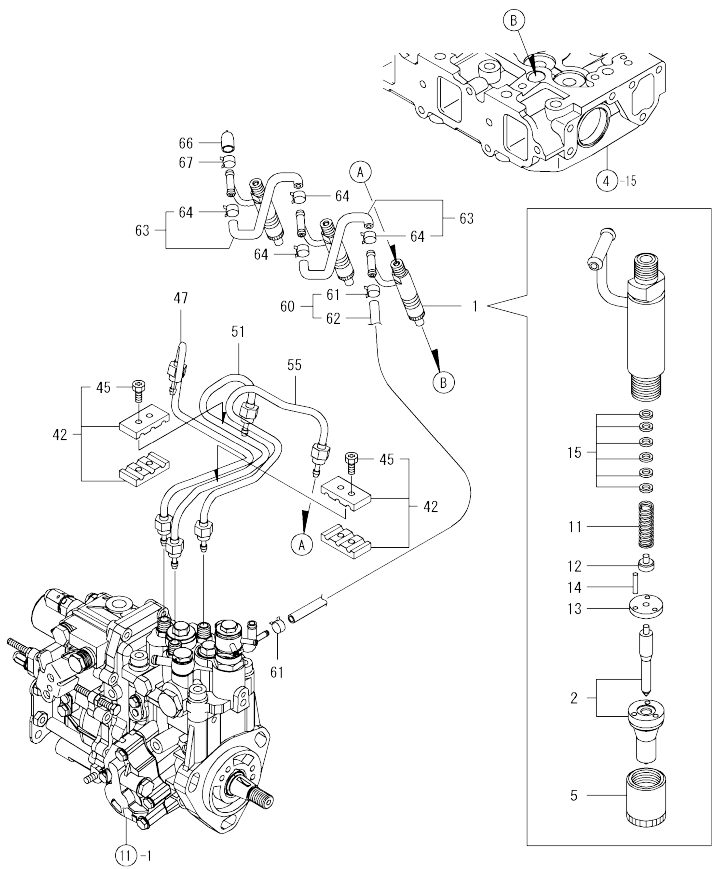
Fig.12. GOVERNOR



Remarks
* 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)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-61280	O-RING, S6	1							
22	2	129255-61410	NUT, LOCK	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	129246-61441	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							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060142	BOLT, M6X 14 PLATED	4							
86	2	26106-060202	BOLT, M6X 20 PLATED	10							
89	2	129246-61061	COVER, GOVERNOR CASE	1							
104	2	119653-77950	SOLENOID, STOP	1							

Fig.13. FUEL INJECTION VALVE

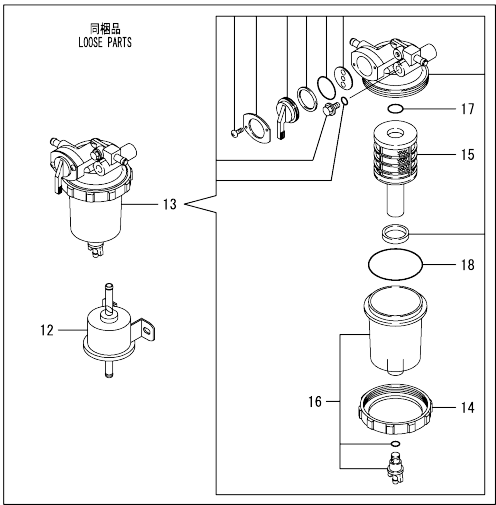
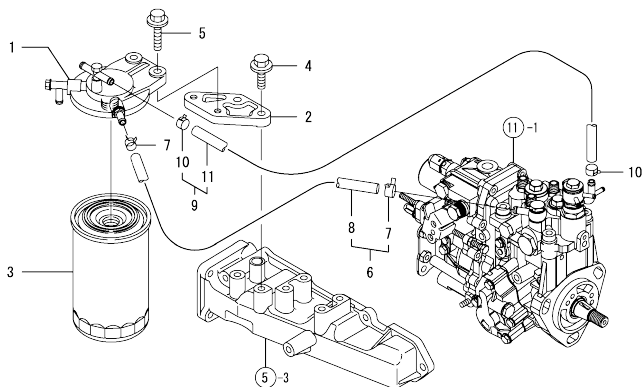


(A)=3TNV88-GGEHC
(B)=
(C)=

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

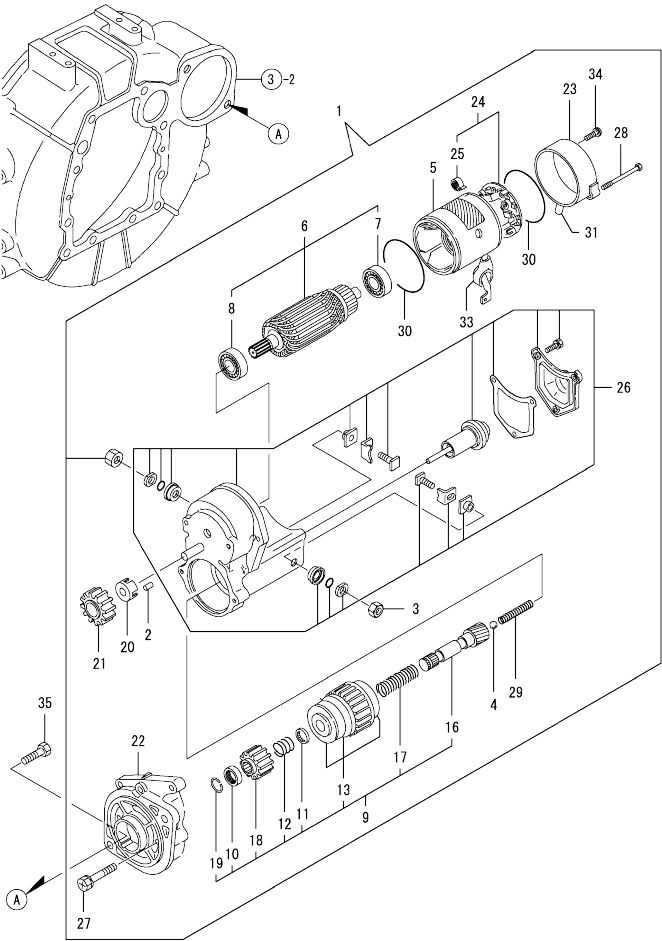
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729246-53101	VALVE ASSY,INJECTION	3							
2	2	129246-53001	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
11	2	114250-53120	SPRING, NOZZLE	3							
12	2	114250-53130	SEAT, SPRING	3							
13	2	114250-53140	PLATE	3							
14	2	114250-53210	PIN	6							
15	2	119803-53400	SHIM SET	3							
42	1	129150-59120	RETAINER, PIPE	2							
45	2	129150-59131	BOLT, M4X14	4							
47	1	129004-59811	PIPE ASSY, INJECTION	1							
51	1	129004-59821	PIPE ASSY, INJECTION	1							
55	1	129004-59831	PIPE ASSY, INJECTION	1							
60	1	119802-59550	PIPE ASSY, RETURN	1							
61	2	124722-59050	CLIP, HOSE 9	2							
62	2	119802-59560	PIPE, FUEL RETURN	1							
63	1	129486-59551	PIPE ASSY, RETURN	2							
64	2	124722-59050	CLIP, HOSE 9	4							
66	1	119593-59581	CAP	1							
67	1	124060-77680	CLIP, HOSE 10	1							

Fig.14. FUEL LINE



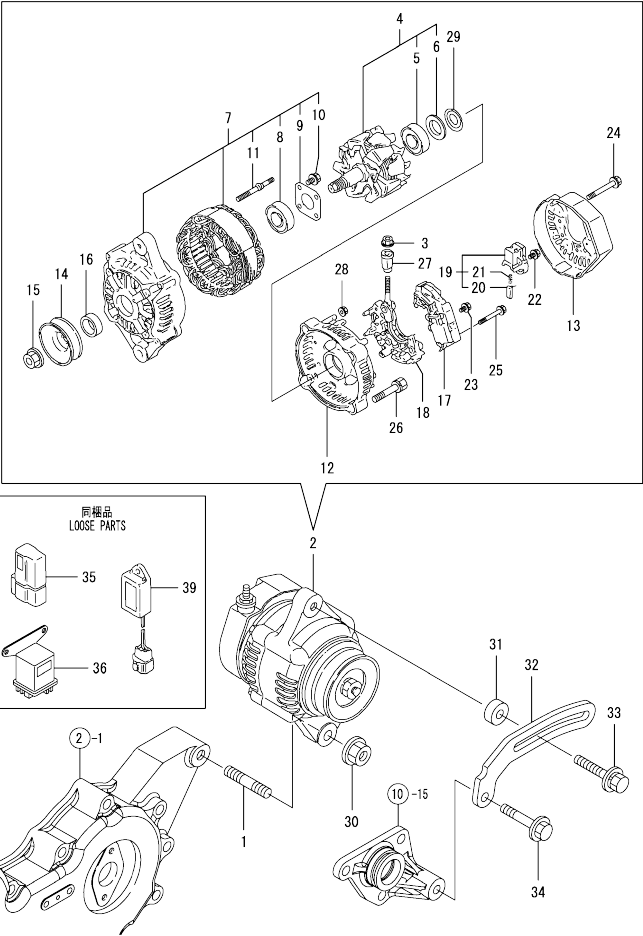
0CW10-M48100 Fig.14											
				(A)=3TNV88-GGEHC	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
				Q'ty						I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	119940-55690	SPACER	1							
3	1	129907-55810	FILTER, FUEL	1							
4	1	26106-080252	BOLT, M8X 25 PLATED	2							
5	1	26106-080302	BOLT, M8X 30 PLATED	2							
6	1	129210-59070	PIPE ASSY, FUEL	1							
7	2	124766-59050	CLIP, HOSE 12	2							
8	2	105025-59760	PIPE, FUEL	1							
9	1	129210-59130	PIPE ASSY, FUEL	1							
10	2	124766-59050	CLIP, HOSE 12	2							
11	2	105025-59750	PIPE, FUEL	1							
12	1	119225-52102	PUMP ASSY, FUEL FEED	1							
13	1	119802-55700	SEPARATOR ASSY	1							
14	2	129100-55690	RING, RETAINING	1							
15	2	119802-55710	ELEMENT	1							
16	2	119802-55730	CUP ASSY	1							
17	2	24311-000160	O-RING, 1AP16.0	1							
18	2	24321-000650	O-RING, 1AG65.0	1							
</											

0CW10-M48100 3TNV88-GGEHC
Fig.15. STARTING MOTOR



										0CW10-M48100 Fig.15	
										(A)=3TNV88-GGEHC	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129129-77010	STARTER ASSY	1							
2	2	X0283060061	ROLLER	5							
3	2	X9490561370	NUT	1							
4	2	X9491200240	BALL	1							
5	2	129129-77210	YOKE ASSY	1							
6	2	129129-77220	ARMATURE ASSY	1							
7	3	129129-77230	BEARING	1							
8	3	129129-77240	BEARING	1							
9	2	129129-77250	STARTER	1							
10	3	X0280210230	NUT	1							
11	3	X0283270140	RETAINER	1							
12	3	X9491703371	SPRING, COIL	1							
13	3	129129-77390	CLUTCH ASSY	1							
16	3	129129-77400	SHAFT	1							
17	3	129129-77410	SPRING, COIL	1							
18	3	129129-77420	PINION, STARTER	1							
19	3	129129-77430	RING	1							
20	2	129129-77260	RETAINER	1							
21	2	129129-77270	PINION	1							
22	2	129129-77280	HOUSING	1							
23	2	129129-77290	FRAME	1							
24	2	129129-77300	HOLDER ASSY	1							
25	3	X9491730461	SPRING	4							
26	2	129129-77310	SWITCH ASSY	1							
27	2	129129-77320	BOLT	2							
28	2	129129-77330	BOLT	2							
29	2	129129-77340	SPRING	1							
30	2	129129-77350	O-RING	2							
31	2	129129-77362	COVER	1							
33	2	129129-77380	CAP	1							
34	2	129129-77460	SCREW	2							
35	1	26116-120252	BOLT, M12X 25 PLATED	2							

Fig.16. GENERATOR

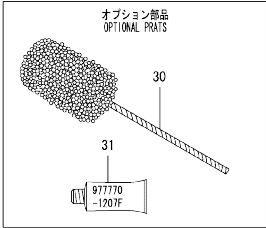
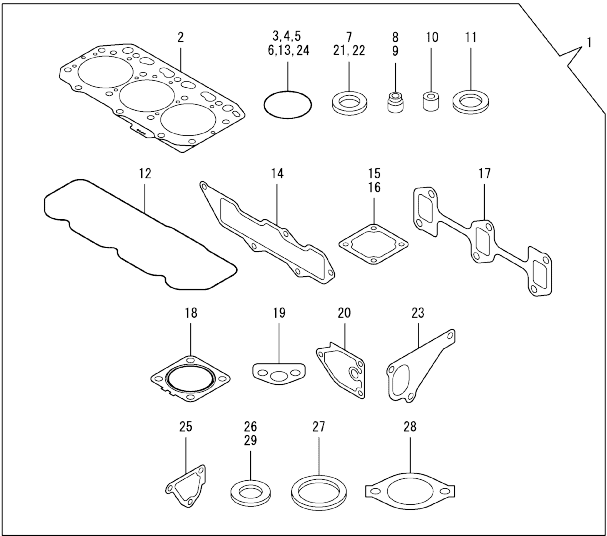


(A)=3TNV88-GGEHC
(B)=
(C)=

(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	129423-77200	GENERATOR, 12V-40A	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER	1							
7	2	119620-77421	FRAME ASSY, DRIVE	1							
8	3	119620-79200	BEARING, BALL	1							
9	3	119620-79210	PLATE, RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	STUD	2							
12	2	119620-77440	FRAME ASSY	1							
13	2	129240-79300	COVER	1							
14	2	119620-77461	PULLEY	1							
15	2	119620-77471	NUT	1							
16	2	119620-77490	COLLAR	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	6							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	BUSH, INSULATION	1							
28	2	119620-79350	NUT	2							
29	2	119620-79360	WASHER, THRUST	1							
30	1	26306-100002	NUT, M10	1							
31	1	119940-77270	SPACER, GENERATOR	1							
32	1	119940-77330	ADJUSTER	1							
33	1	129972-77341	BOLT, ADJUSTER L=50	1							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	119643-66900	DIODE	1							
36	1	119650-77910	RELAY ASSY, GLOW	1							
39	1	129211-77920	TIMER	1							

Fig.17. GASKET SET



Remarks
(1) OPTIONAL PART.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729150-92820	GASKET SET	1							1
2	2	129001-01340	GASKET, HEAD	1							
3	2	119609-32040	O-RING, P16	4							
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	129100-77510	GASKET	1							
16	2	129150-77511	GASKET	1							
17	2	129150-13110	GASKET	1							
18	2	129004-13200	GASKET, SILENCER	1							
19	2	129150-35042	GASKET	1							
20	2	129150-35111	GASKET	1							
21	2	22190-080002	WASHER, SEAL 6	2							
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	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	1	129400-92430	HONE	1							1
31	1	977770-1207F	GASKET, LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59750	14	11
105025-59760	14	8
114250-39450	9	12
114250-53080	13	5
114250-53120	13	11
114250-53130	13	12
114250-53140	13	13
114250-53210	13	14
118400-44670	10	50
118400-44720	10	51
119005-35170	9	10
119131-18320	6	5
119225-52102	14	12
119255-44660	10	54
119593-59581	13	66
119609-32040	2	11
	17	3
119620-01750	3	3
119620-77380	16	4
119620-77421	16	7
119620-77440	16	12
119620-77461	16	14
119620-77471	16	15
119620-77480	16	20
119620-77490	16	16
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79260	16	18
119620-79280	16	21
119620-79290	16	22
119620-79300	16	23
119620-79310	16	24
119620-79320	16	25
119620-79330	16	26
119620-79340	16	27
119620-79350	16	28
119620-79360	16	29
119625-11880	4	32
	17	11
119640-01640	3	8
119643-66900	16	35
119650-77910	16	36
119653-77950	12	104
119660-61901	12	60
119802-01520	2	6
119802-01561	2	7
119802-03110	4	43

Parts No.	Fig. No.	Ref. No.
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
	17	10
119802-12530	5	14
119802-12560	5	17
119802-21202	8	4
119802-25051	7	9
119802-25071	7	13
119802-25101	7	10
119802-25901	7	16
119802-32070	2	13
119802-32100	2	12
119802-32111	2	17
119802-32120	2	18
119802-32130	2	19
119802-35100	9	6
119802-35110	9	7
119802-39450	9	14
119802-49113	10	10
119802-49730	10	40
119802-51090	11	11
119802-51250	11	133
119802-51560	11	60
119802-51590	11	66
119802-51600	11	67
119802-51680	11	71
119802-51690	11	72
119802-55700	14	13
119802-55710	14	15
119802-55730	14	16
119802-59550	13	60
119802-59560	13	62
119803-53400	13	15
119807-61420	12	23
119808-12540	5	15
119831-42290	10	24
119866-12541	5	16
119910-12210	5	13
119934-01800	2	5
119940-55690	14	2
119940-77270	16	31
119940-77330	16	32
120130-11860	4	29
120270-54410	4	34
121023-01551	2	27

Parts No.	Fig. No.	Ref. No.
121111-21501	8	11
121250-44901	10	35
121267-44760	10	26
121400-11340	4	25
	17	8
121450-42450	10	34
121520-34810	9	2
121550-23200	8	26
121850-21680	8	10
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