

0CD11-M12100EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV88-BPMBA for MAEDA SEISAKUSHO CO.,LTD.

Pub.No. : OCD11-G12100

Published : June, 2010

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV88-BPMBA	CRAWLER CRANE	MAEDA SEISAKUSHO CO.,LTD.

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.

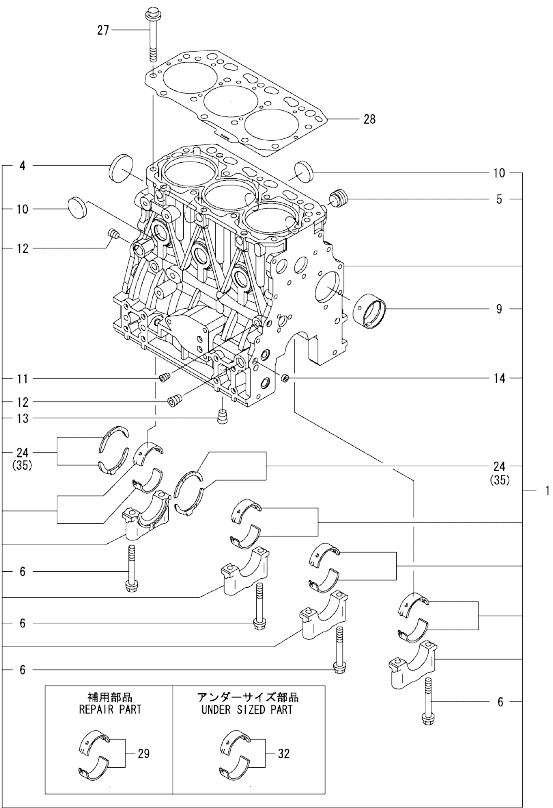
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
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		

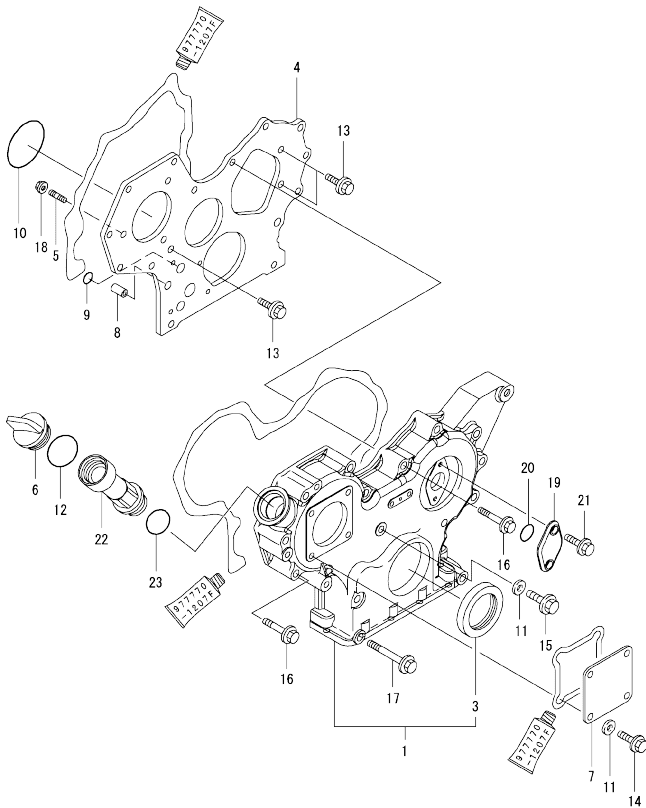
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Fig.1. CYLINDER BLOCK



Remarks
(1)Repair part.
(2)Under sized(U.S.=0.25)part.
(3)Over sized(O.S.=0.25)part.

							0CD11-M12100 Fig.1					
							(A)=3TNV88-BPMBA					
							(D)=					
							(E)=					
							(F)=					
							Q'ty					
No.	Lev.	Parts No.	Description				(A)	(B)	(C)	(D)	(E)	(F)
1	1	729005-01560	BLOCK ASSY, CYLINDER				1					
4	2	129001-01250	PLUG, 50				1					
5	2	171051-01921	PLUG, NPTF1				1					
6	2	129150-02020	BOLT, METAL CAP				8					
9	2	129795-02412	BUSH, CAMSHAFT				1					
10	2	27241-300000	PLUG 30				6					
11	2	124060-01050	PLUG, PT1/8				1					
12	2	124160-01910	PLUG, PT1/4				2					
13	2	124160-01910	PLUG, PT1/4				1					
14	2	27241-120000	PLUG, 12				2					
24	2	129150-02931	BEARING, THRUST				2					
27	1	129150-01200	BOLT, HEAD				14					
28	1	129001-01340	GASKET, HEAD				1					
29	1	129001-02931	BEARING, MAIN				4					1
32	1	129150-02871	BEARING, 0.25 US				4					2
35	1	129150-02941	BEARING, THRUST 0.25				1					3

OCD11-M12100 3TNV88-BPMBA
Fig.2. GEAR HOUSING



OCD11-M12100

Fig.2

(A)=3TNV88-BPMBA

(D)=

(B)=

(E)=

(C)=

(F)=

No.

Lev.

Parts No.

Description

(A)

(B)

(C)

(D)

(E)

(F)

I

R

Q'ty

1	1	719803-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	COVER, FILLER	1							
7	1	124240-01871	COVER	1							
8	1	129795-01950	PIPE, KNOCK L=18	2							
9	1	119609-32040	O-RING, P16	2							
10	1	121850-51960	O-RING	1							
11	1	22190-080002	WASHER, SEAL 6	5							
12	1	24311-000320	O-RING, 1AP32.0	1							
13	1	26106-080162	BOLT, M8X 16 PLATED	3							
14	1	26106-080162	BOLT, M8X 16 PLATED	4							
15	1	26106-080302	BOLT, M8X 30 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	12							
17	1	26106-080852	BOLT, M8X 85 PLATED	3							
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							
22	1	121027-11743	PIPE	1							
23	1	24311-000320	O-RING, 1AP32.0	1							

N:Old

YES

NO

New.

Q:Old

YES

NO

New.

R:Old

YES

NO

New.

S:Old

YES

NO

New.

W:Add.

Z:Discontinued.

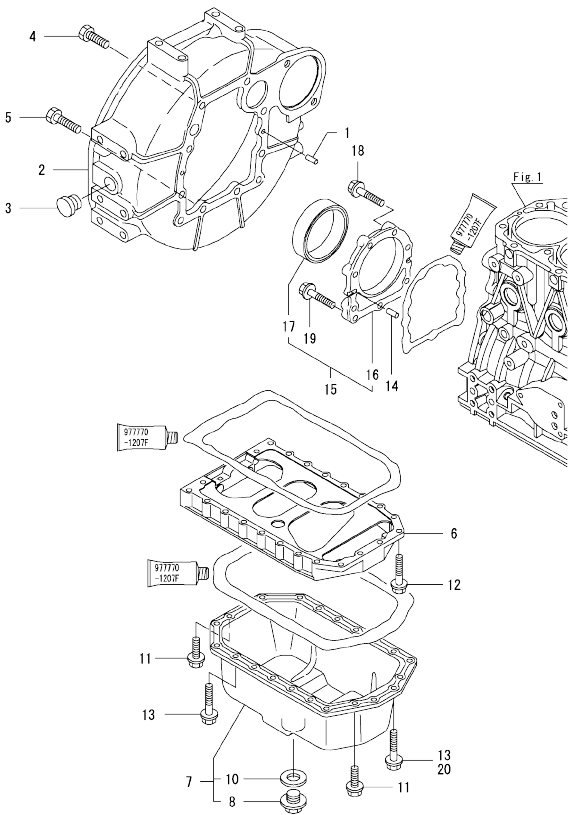
F:Interchangeable by set.

K:Q'ty Change

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Fig.3. FLYWHEEL HOUSING & OIL SUMP



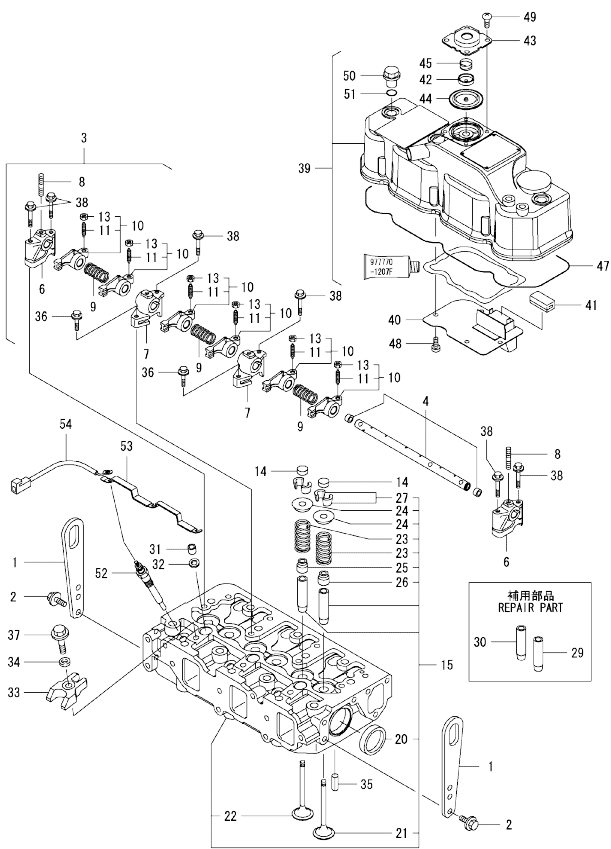
0CD11-M12100 Fig.3

(A)=3TNV88-BPMBA
(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							
7	1	129136-01780	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	16							
14	1	129100-01580	PIN, M8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
16	2	129150-01650	CASE, 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							

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Repair part.

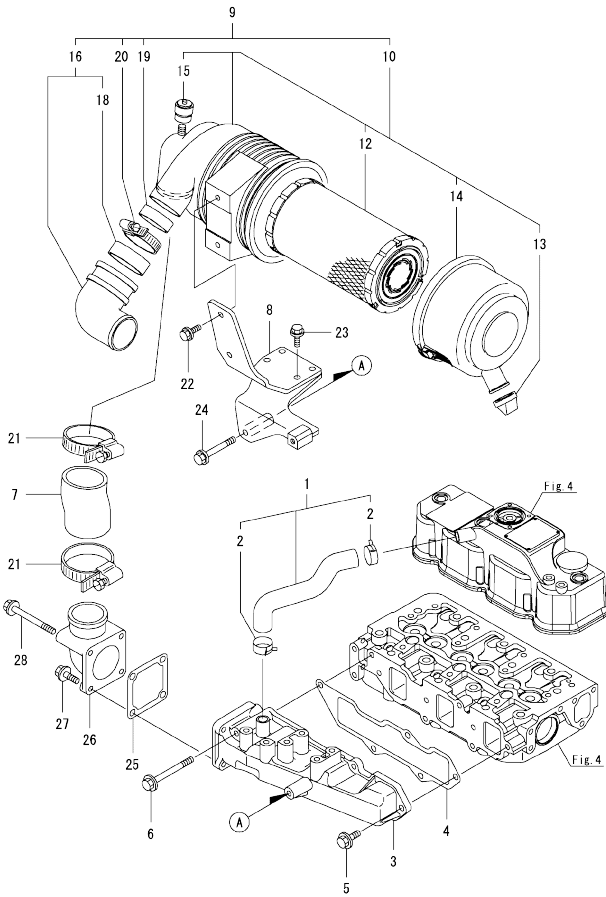
(A)=3TNV88-BPMBA
(B)=
(C)=

(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	129008-11700	HEAD ASSY, CYLINDER	1							
20	2	27241-400000	PLUG, 40	2							
21	2	129005-11100	VALVE, INTAKE	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	129055-11350	BONNET ASSY, HEAD	1							
40	2	129004-03010	PLATE	1							
41	2	129150-03070	BAFFLE, BREATHER	1							
42	2	119802-03110	PLATE	1							
43	2	119802-03121	COVER, DIAPHRAGM	1							
44	2	119802-03130	DIAPHRAGM	1							
45	2	119802-03141	SPRING, DIAPHRAGM	1							
47	2	129004-11310	GASKET, BONNET	1							
48	2	22857-500100	SCREW, 5X10	4							
49	2	22857-500100	SCREW, 5X10	4							
50	1	124160-11360	KNOB	3							
51	1	24311-000120	O-RING, 1AP12.0	3							
52	1	129008-77800	PLUG, GLOW	3							
53	1	129008-77820	CONNECTOR, GLOW PLUG	1							
54	1	129238-77800	HARNES, WIRE	1							

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Fig.5. SUCTION MANIFOLD & AIR CLEANER



OCD11-M12100 Fig.5

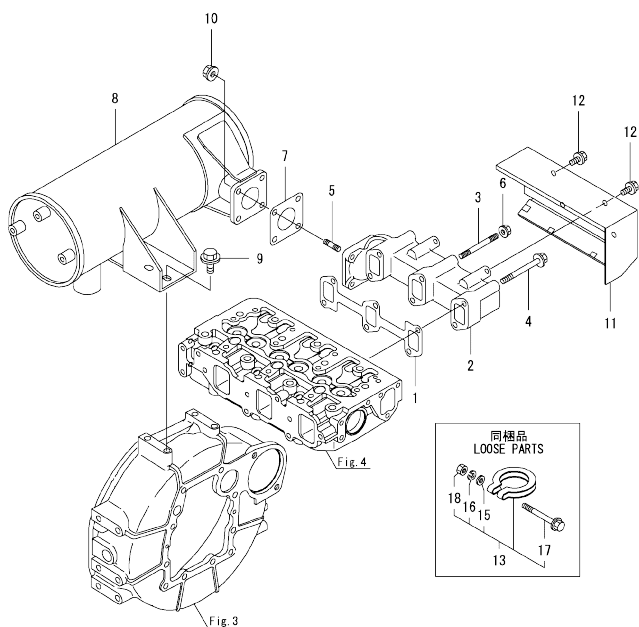
(A)=3TNV88-BPMBA
(B)=
(C)=

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

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	119910-12210	PIPE, AIR INTAKE	1							
8	1	129237-12560	BRACKET, AIR CLEANER	1							
9	1	129002-12610	CLEANER ASSY, AIR	1							
10	2	129209-12500	CLEANER ASSY, AIR	1							
12	3	119808-12520	ELEMENT	1							
13	3	119808-12540	VALVE, UNLOADER	1							
14	3	129209-12540	COVER ASSY	1							
15	3	126650-12680	INDICATOR	1							
16	2	129612-12560	ELBOW	1							
18	3	129612-12590	GASKET	1							
19	2	129259-12570	RING	1							
20	2	23000-060000	CLAMP, 60	1							
21	1	23000-060000	CLAMP, 60	2							
22	1	26013-080222	BOLT, M8X 22	2							
23	1	26014-080302	BOLT, M8X 30	4							
24	1	26106-080602	BOLT, M8X 60 PLATED	1							
25	1	129150-77511	GASKET	1							
26	1	119803-77520	BEND, AIR HEATER	1							
27	1	26106-080202	BOLT, M8X 20 PLATED	2							
28	1	26106-080802	BOLT, M8X 80 PLATED	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.6. EXHAUST MANIFOLD & SILENCER



0CD11-M12100 Fig.6

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-13110	GASKET	1							
2	1	129211-13110	MANIFOLD, EXHAUST	1							
3	1	123900-13610	STUD, M8X80	2							
4	1	123900-13630	BOLT, M8X80	4							
5	1	119131-18320	STUD, M6X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	124701-11911	GASKET, SILENCER	1							
8	1	129002-13520	SILENCER	1							
9	1	26106-100202	BOLT, M10X 20 PLATED	2							
10	1	26306-080002	NUT, M8	4							
11	1	129002-13400	COVER, MANIFOLD	1							
12	1	26106-080102	BOLT, M8X 10 PLATED	4							
13	1	121120-13590	CLAMP	1							
15	2	22117-100000	WASHER, 10	1							
16	2	22217-100000	WASHER, SPRING 10	1							
17	2	26106-100652	BOLT, M10X 65 PLATED	1							
18	2	26706-100002	NUT, M10	1							

Fig.7. CAMSHAFT & DRIVING GEAR



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

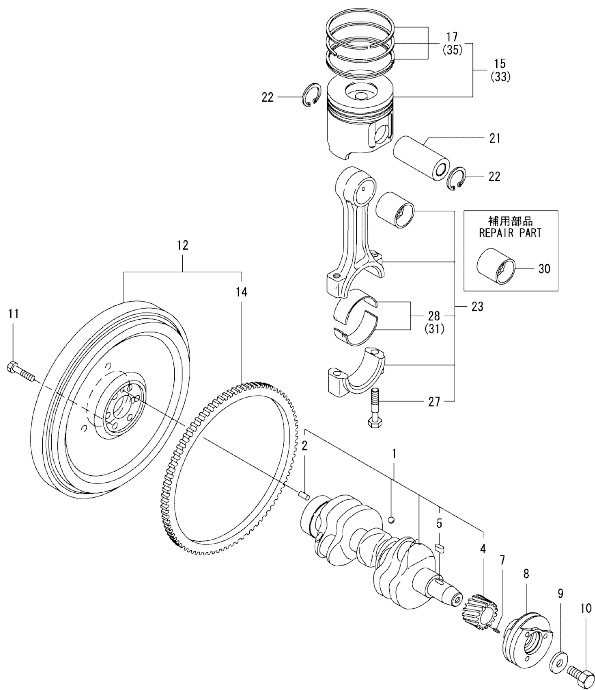
(D)=
(E)=
(F)=

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	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							

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.8. CRANKSHAFT & PISTON



Remarks
(1)Repair part.
(2)Under sized(U.S.=0.25)part.
(3)Over sized(O.S.=0.25)part.

0CD11-M12100 Fig.8

(A)=3TNV88-BPMBA
(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							
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	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	129128-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	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							
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

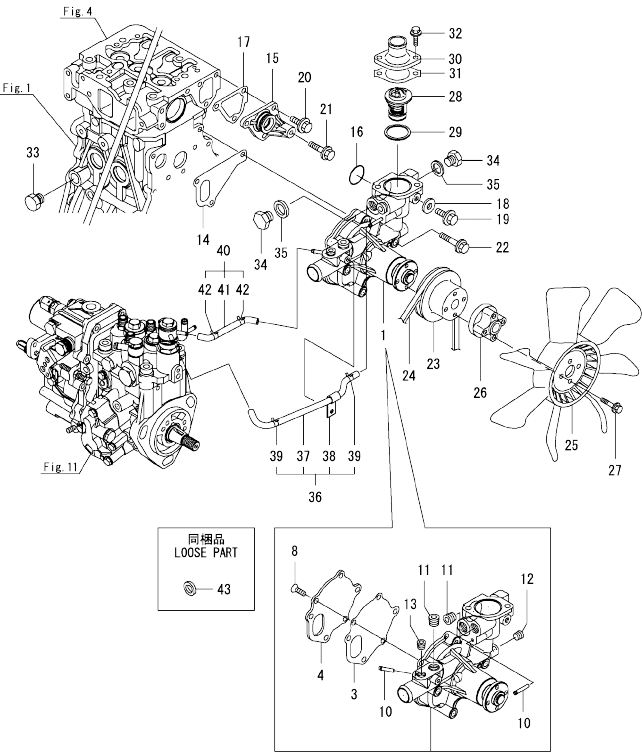
(D)=
(E)=

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



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

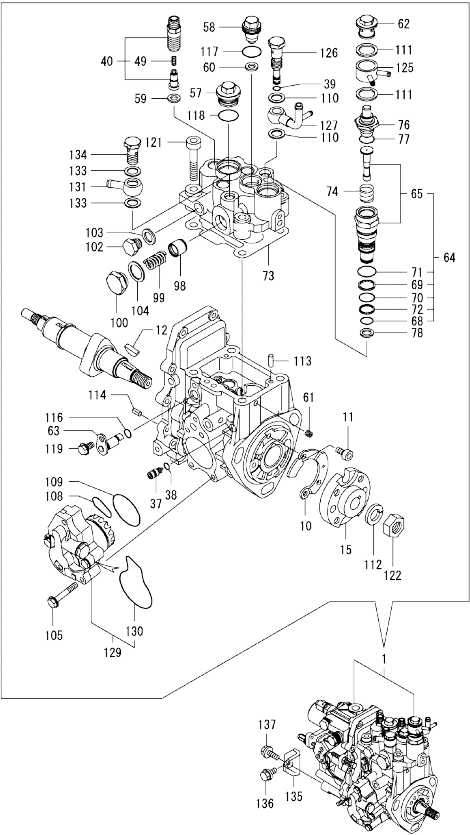


(A)=3TNV88-BPMBA
(B)=
(C)=

(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	26577-060142	SCREW, 6 X 14	3							
10	2	119802-49113	JOINT, PIPE	2							
11	2	129916-49740	PLUG, R03	2							
12	2	23876-010000	PLUG, R01	1							
13	2	23875-020000	PLUG, R02	1							
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	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	129550-42350	V-PULLEY, D=120	1							
24	1	129612-42360	V-BELT, A39	1							
25	1	121267-44741	FAN, COOLING D=360	1							
26	1	129457-44760	SPACER, FAN	1							
27	1	26106-060452	BOLT, M6X 45 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71	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	1							
34	1	160769-01690	PLUG, DRAIN	2							
35	1	22190-160000	WASHER, SEAL 16	2							
36	1	129004-49610	PIPE ASSY, WATER	1							
37	2	129004-49711	PIPE ASSY, WATER	1							
38	2	119802-49730	RETAINER, PIPE	1							
39	2	124722-59050	CLIP, HOSE 9	2							
40	1	129004-49620	PIPE ASSY, WATER	1							
41	2	129004-49721	PIPE ASSY, WATER	1							
42	2	124722-59050	CLIP, HOSE 9	2							
43	1	129150-49360	GASKET	1							

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated
in the fuel injection pump assy
(Ref.No.1).

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

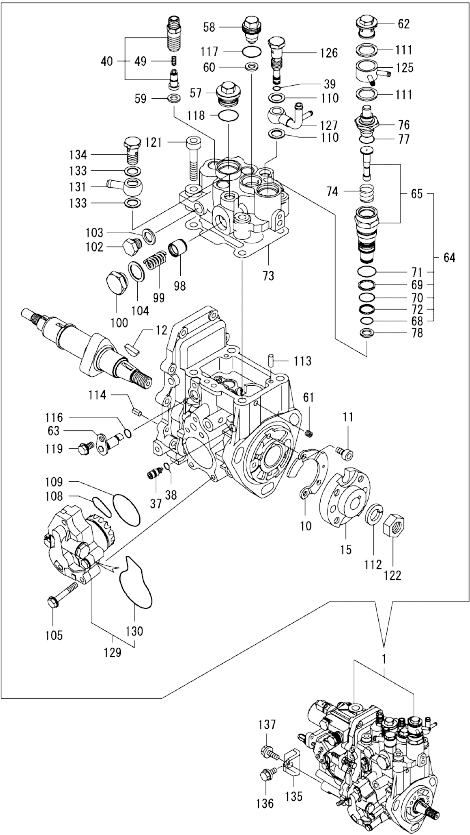
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729237-51340	INJECTION PUMP ASSY	1							
10	2	129008-51900	COVER, GEAR CASE	1							
11	2	129008-51920	BOLT, M6X10	2							
12	2	119802-51090	KEY, 4X16	1							
15	2	158552-51151	FLANGE	1							
37	2	158600-51270	STOPPER, TAPPET	1							
38	2	158563-51281	O-RING, 4D S6	1							
39	2	158563-51281	O-RING, 4D S6	1							
40	2	129008-51390	VALVE ASSY, DELIVERY	3							
49	3	158563-51330	SPRING, DELIVERY	3							
57	2	158601-51550	PLUG	1							
58	2	119802-51560	PLUG, BARREL	1							
59	2	158552-51571	GASKET	3							
60	2	158552-51571	GASKET	1							
61	2	158557-51570	PLUG	1							
62	2	158601-51570	PLUG	1							
63	2	158552-51580	LIFTER	1							
64	2	119802-51590	TIMER SET	1							
65	3	119802-51600	TIMER ASSY	1							
68	3	158553-51670	O-RING, 1011	1							
69	3	119802-51680	RING, BACK UP	1							
70	3	119802-51690	O-RING	1							
71	3	24356-190200	O-RING, 4D19020	1							
72	3	24372-000150	RING, BACK UP T2P15	1							
73	2	158552-51600	GASKET	1							
74	2	158553-51630	SPRING, TIMER	1							
76	2	158553-51650	ELEMENT	1							
77	2	158553-51660	O-RING, P14	1							
78	2	158553-51680	GASKET	1							
98	3	158601-51770	PISTON	1							
99	3	158552-51781	SPRING	1							
100	3	158601-51790	PLUG	1							
102	3	158553-51930	PLUG, M12	1							
103	3	22190-120002	WASHER, SEAL 12	1							
104	3	22190-180002	WASHER, SEAL 18	1							
105	2	158553-51770	BOLT	4							
108	2	158552-52311	O-RING	1							
109	2	158552-52400	O-RING, 4E S42	1							
110	2	22190-120002	WASHER, SEAL 12	2							
111	2	22190-180002	WASHER, SEAL 18	2							
112	2	22217-140000	WASHER, SPRING 14	1							
113	2	22312-050140	PIN, PARALLEL M5X14	2							
114	2	22351-050010	PIN, SPRING 5.0X10	2							
116	2	24311-000070	O-RING, 1AP7.0	1							
117	2	24356-190180	O-RING, 4D19018	1							
118	2	24356-190200	O-RING, 4D19020	1							
119	2	26106-060102	BOLT, M6X 10 PLATED	1							
121	2	26450-080452	BOLT, M8X 45	4							
122	2	26776-140002	NUT, LOCK M14	1							
125	2	158553-51551	JOINT	1							
126	2	158601-51650	JOINT, OVER FLOW	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
++ CONTINUE ++
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OCD11-M12100 3TNV88-BPMBA

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated
in the fuel injection pump assy
(Ref.No.1).

OCD11-M12100 Fig.11

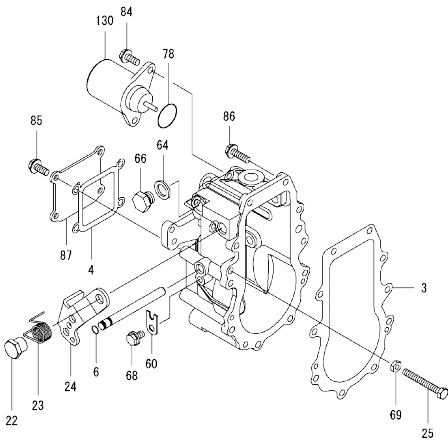
(A)=3TNV88-BPMBA
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
127	2	158552-51670	JOINT, OVER FLOW	1							
129	2	158552-52100	PUMP ASSY, FUEL FEED	1							
130	3	158552-52500	O-RING	1							
131	2	129916-59020	JOINT, PIPE 12	1							
133	2	22190-120002	WASHER, SEAL 12	2							
134	2	23857-060000	BOLT, JOINT 6	1							
135	1	119802-51250	RETAINER, PUMP	1							
136	1	26106-080162	BOLT, M8X 16 PLATED	1							
137	1	26106-080202	BOLT, M8X 20 PLATED	1							

N:Old $\frac{Y10}{10}$ New, Q:Old $\frac{R10}{10}$ New, R:Old $\frac{Y10}{10}$ New, S:Old $\frac{R10}{10}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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0CD11-M12100 3TNV88-BPMBA

Fig.12. GOVERNOR



Remarks
* This figure(governor) is incorporated in the fuel injection pump(Fig.11).

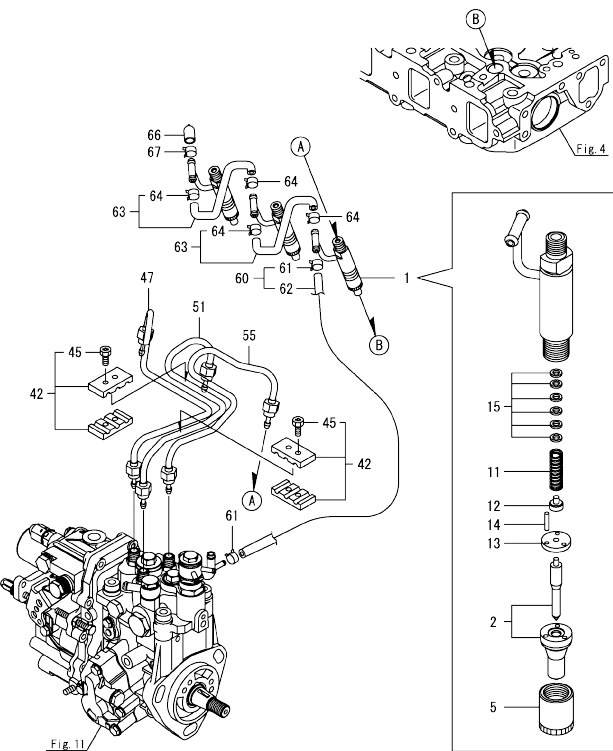
0CD11-M12100 Fig.12

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

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

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	129155-51280	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	22190-120002	WASHER, SEAL 12	1							
66	2	158553-51930	PLUG, M12	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							
87	2	129642-61060	COVER, GOVERNOR CASE	1							
130	2	119233-77932	SOLENOID, STOP	1							

Fig.13. FUEL INJECTION VALVE



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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53300	VALVE ASSY,INJECTION	3							
2	2	129604-53300	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



(D)=
(E)=

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

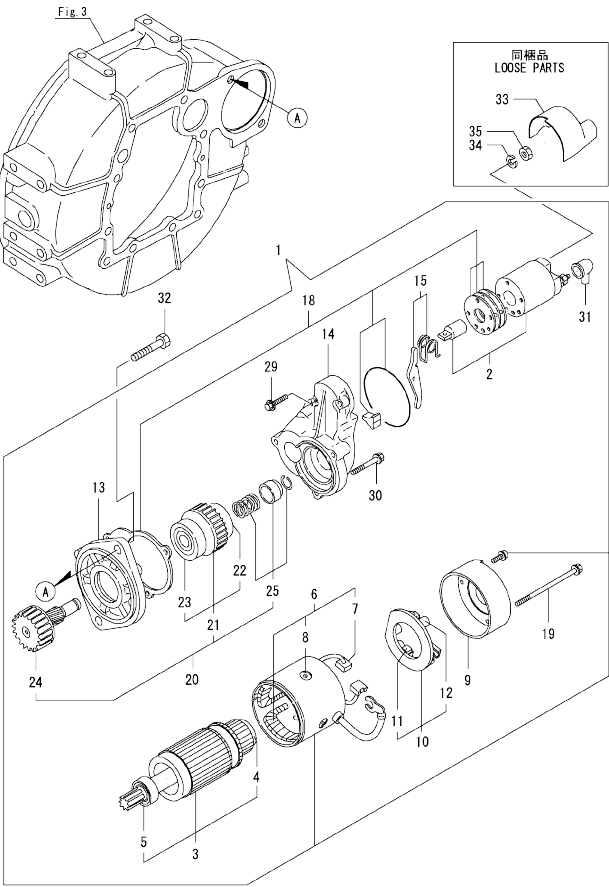
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15

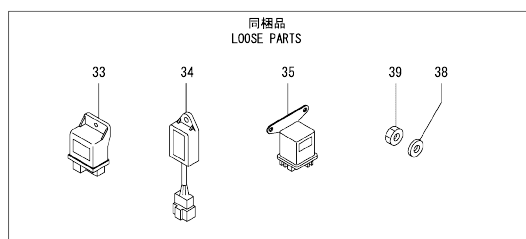
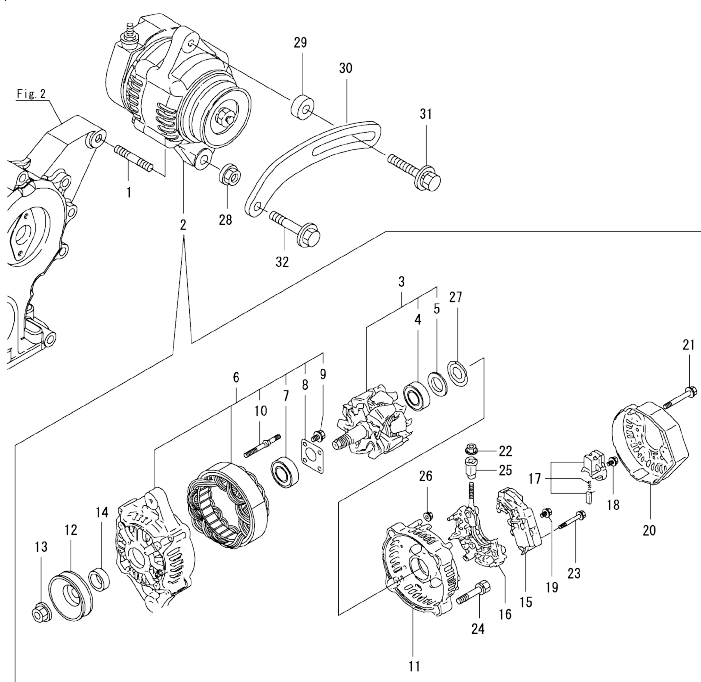
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129236-50100	BRACKET, FUEL PUMP	1							
2	1	129612-52100	PUMP, FUEL FEED	1							
3	1	129642-59010	PIPE ASSY, FUEL	1							
4	2	129642-59110	TUBE, CORRUGATED 15	1							
5	2	129642-59210	PIPE, PUMP-FILTER	1							
6	1	129612-59050	CLIP, HOSE 12	2							
7	1	129240-66200	BRACKET, WIRE	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	26106-080202	BOLT, M8X 20 PLATED	2							
10	1	129642-55611	BRACKET, FILTER	1							
10-1	1	129238-55610	BRACKET, FO FILTER	1							N
(A=EU2054)											
11	1	119802-55801	FILTER, FUEL	1							
12	1	26106-080302	BOLT, M8X 30 PLATED	2							
13	1	129630-59010	HOSE ASSY, FUEL	1							
14	2	124766-59050	CLAMP, HOSE 11.5	2							
15	2	129961-59110	TUBE, CORRUGATED 15	1							
16	2	105025-59560	HOSE, FUEL	1							
17	1	129237-59100	PIPE ASSY, FUEL	1							
18	2	124766-59050	CLAMP, HOSE 11.5	2							
21	1	129242-55701	SEPARATOR ASSY, WATER	1							
22	2	129242-55720	CUP, SEPARATOR	1							
23	2	129242-55730	ELEMENT, FUEL FILTER	1							
24	2	129242-55740	PLUG, DRAIN	1							
25	2	129242-55750	VALVE, AIR VENT	1							
26	2	129242-55760	GASKET, PLUG	1							
27	2	129242-55770	FLOAT	1							
28	2	24311-000160	O-RING, 1AP16.0	1							
29	2	24321-000750	O-RING, 1AG75.0	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:Qty Change

OCD11-M12100 3TNV88-BPMBA
Fig.15. STARTING MOTOR



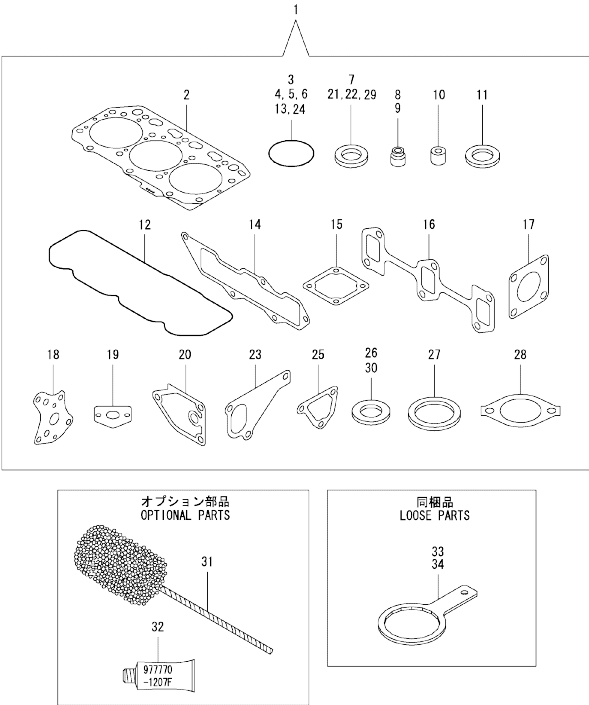
										OCD11-M12100		Fig.15	
										(A)=3TNV88-BPMBA		(D)=	
										(B)=		(E)=	
										(C)=		(F)=	
										Q'ty		I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129136-77011	STARTER	1									
2	2	129136-77310	SWITCH ASSY	1									
3	2	129900-77400	ARMATURE ASSY	1									
4	3	X2130350900	BEARING, BALL	1									
5	3	X2114255110	BEARING, BALL	1									
6	2	129900-77440	COIL ASSY, FIELD	1									
7	3	129900-77450	BRUSH	2									
8	3	171008-77450	SCREW	4									
9	2	129900-77460	COVER	1									
10	2	129900-77480	HOLDER ASSY, BRUSH	1									
11	3	129900-77500	BRUSH	2									
12	3	129400-77490	SPRING	4									
13	2	171008-77510	CASE, GEAR	1									
14	2	129136-77520	HOUSING	1									
15	2	171008-77540	LEVER SET	1									
18	2	129400-77571	COVER ASSY, DUST	1									
19	2	129900-77640	BOLT, THROUGH	2									
20	2	171008-77650	PINION ASSY	1									
21	3	X2114555500	CLUTCH ASSY	1									
22	4	X2114955020	BEARING, BALL	1									
23	4	X2240410100	BEARING, BALL	1									
24	3	171008-77660	SHAFT	1									
25	3	171008-77670	STOPPER SET	1									
29	2	26106-060322	BOLT, M6X 32 PLATED	2									
30	2	26106-060402	BOLT, M6X 40 PLATED	3									
31	2	171008-77750	COVER	1									
32	1	26116-120252	BOLT, M12X 25 PLATED	2									
33	1	129012-77920	COVER, TERMINAL	1									
34	1	22217-080000	WASHER, SPRING 8	1									
35	1	26756-080002	NUT, LOCK M8	1									



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	119620-77380	ROTOR ASSY	1							
4	3	123501-79240	BEARING, BALL	1							
5	3	119620-79250	COVER	1							
6	2	119620-77421	FRAME ASSY, DRIVE	1							
7	3	119620-79200	BEARING, BALL	1							
8	3	119620-79210	PLATE, RETAINER	1							
9	3	119620-79220	SCREW	4							
10	3	119620-79230	STUD	2							
11	2	119620-77440	FRAME ASSY	1							
12	2	119620-77461	PULLEY	1							
13	2	119620-77471	NUT	1							
14	2	119620-77490	COLLAR	1							
15	2	129423-77710	REGULATOR ASSY	1							
16	2	119620-79260	HOLDER	1							
17	2	129052-79270	HOLDER, BRUSH	1							
18	2	119620-79290	SCREW	6							
19	2	119620-79300	SCREW	1							
20	2	129240-79300	COVER	1							
21	2	119620-79310	BOLT	3							
22	2	X9490561001	NUT	1							
23	2	119620-79320	SCREW	2							
24	2	119620-79330	BOLT	2							
25	2	119620-79340	BUSH, INSULATION	1							
26	2	119620-79350	NUT	2							
27	2	119620-79360	WASHER, THRUST	1							
28	1	26306-100002	NUT, M10	1							
29	1	119940-77270	SPACER, GENERATOR	1							
30	1	119802-77330	ADJUSTER	1							
31	1	129972-77341	BOLT, ADJUSTER L=50	1							
32	1	26106-080452	BOLT, M8X 45 PLATED	1							
33	1	119802-77200	RELAY, SAFETY	1							
34	1	129211-77920	TIMER	1							
35	1	119650-77910	RELAY ASSY, GLOW	2							
38	1	22117-050000	WASHER, 5	1							
39	1	26716-050002	NUT, M5	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

Fig.17. GASKET SET



Remarks
(1)Optional Part.

(A)=3TNV88-BPMBA
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-92840	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	1							
16	2	129150-13110	GASKET	1							
17	2	124701-11911	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 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	22190-160000	WASHER, SEAL 16	2							
30	2	129150-49360	GASKET	1							
31	1	129400-92430	HONE	1							1
32	1	977770-1207F	GASKET LIQUID	1							1
33	1	119640-92750	WRENCH, FILTER 80	1							
34	1	171301-92750	WRENCH, L.O. FILTER	1							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	14	16
114250-53080	13	5
114250-53120	13	11
114250-53130	13	12
114250-53140	13	13
114250-53210	13	14
119131-18320	6	5
119233-77932	12	130
119593-59581	13	66
119609-32040	2	9
	17	3
119620-01750	3	3
119620-77380	16	3
119620-77421	16	6
119620-77440	16	11
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
119620-79260	16	16
119620-79290	16	18
119620-79300	16	19
119620-79310	16	21
119620-79320	16	23
119620-79330	16	24
119620-79340	16	25
119620-79350	16	26
119620-79360	16	27
119625-11880	4	32
	17	11
119640-01640	3	8
119640-92750	17	33
119650-77910	16	35
119660-61901	12	60
119802-01561	2	5
119802-03110	4	42
119802-03121	4	43
119802-03130	4	44
119802-03141	4	45
119802-11260	4	6
119802-11270	4	7
119802-11280	4	8
119802-11870	4	31
	17	10
119802-25071	7	13
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129004-03080	5	1
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129004-42001	10	1
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129150-11370	4	14
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