

0CD11-M01700EN

P R E F A C E

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

Pub.No. : 000Y01D0170

Published : June, 2008

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV88-BPMB	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	(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 No	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No	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

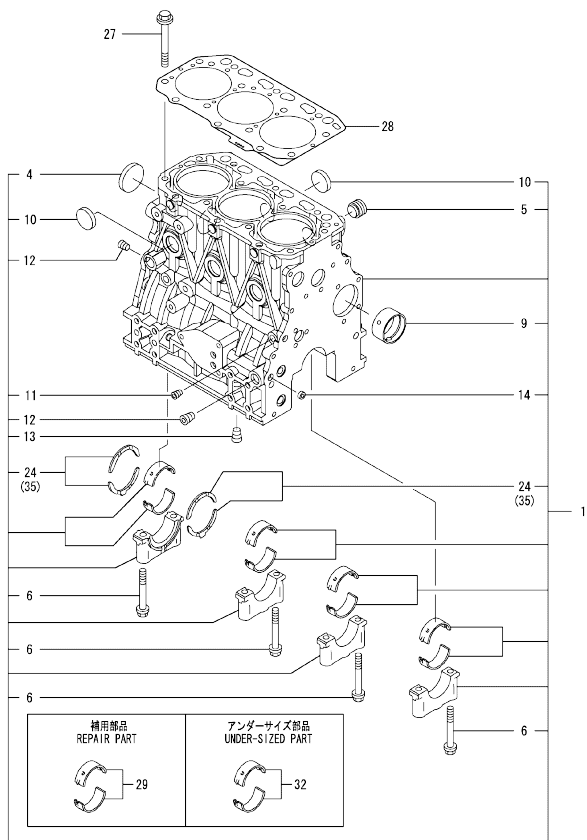
Figures or alphabets (symbols) are entered in the remarks column.

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		
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7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
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11.	FUEL INJECTION PUMP		
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13.	FUEL INJECTION VALVE		
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16.	GENERATOR		
17.	GASKET SET		

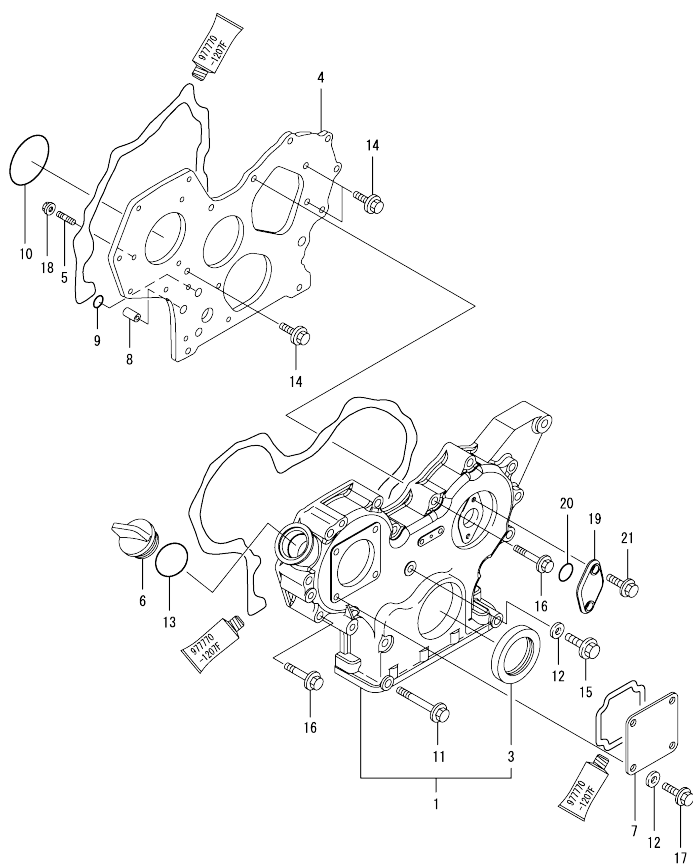
Fig.1. CYLINDER BLOCK



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	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

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

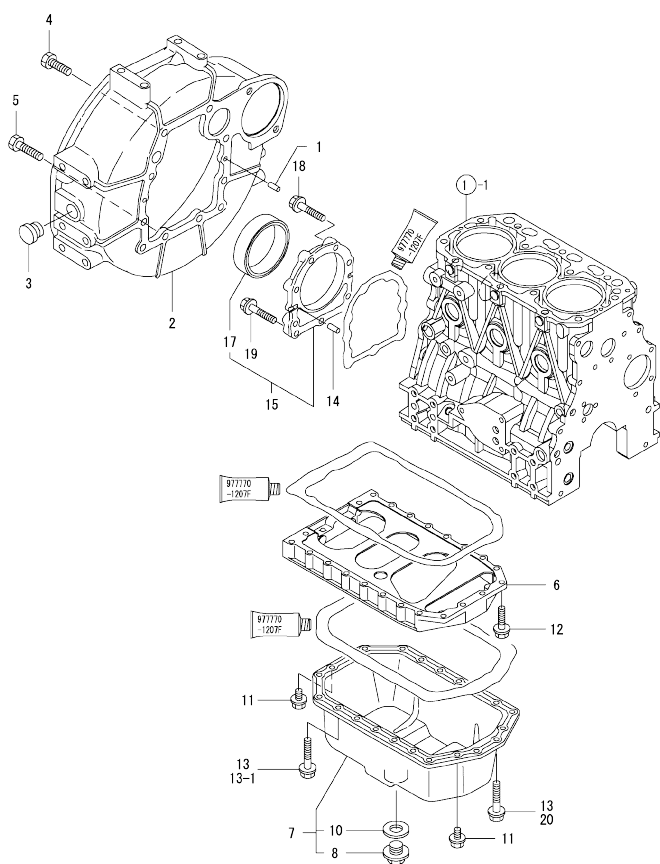
Fig.2. GEAR HOUSING



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	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	129001-91841	BOLT, M8X85	3							
12	1	221901-080002	WASHER, SEAL 6	5							
13	1	243111-000320	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	243411-000240	O-RING, 1AS24.0	1							
21	1	26106-060162	BOLT, M6X 16 PLATED	2							

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

Fig.3. FLYWHEEL HOUSING & OIL SUMP

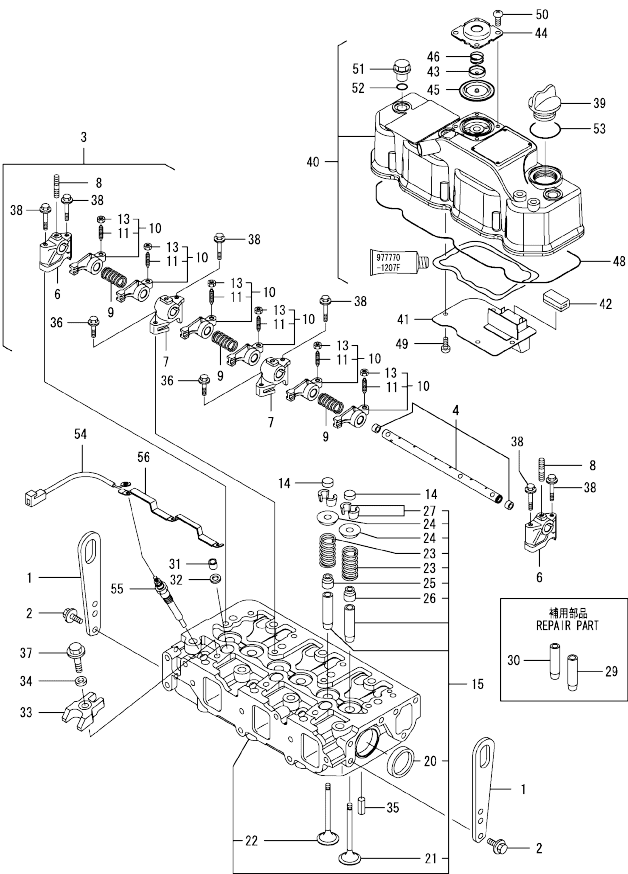


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL SUMP	1							
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	20							
13-1 (A=FROM 1ST)	1	26106-080452	BOLT, M8X 45 PLATED	16							K
14	1	129100-01580	PIN, M8X16	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 (A=FROM 1ST)	1	26106-080502	BOLT, M8X 50 PLATED	4							W

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

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Fig.4. CYLINDER HEAD & BONNET



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	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							
54	1	119803-77830	HARNES, WIRE	1							
55	1	129008-77800	PLUG, GLOW	3							
56	1	129008-77820	CONNECTOR, GLOW PLUG	1							

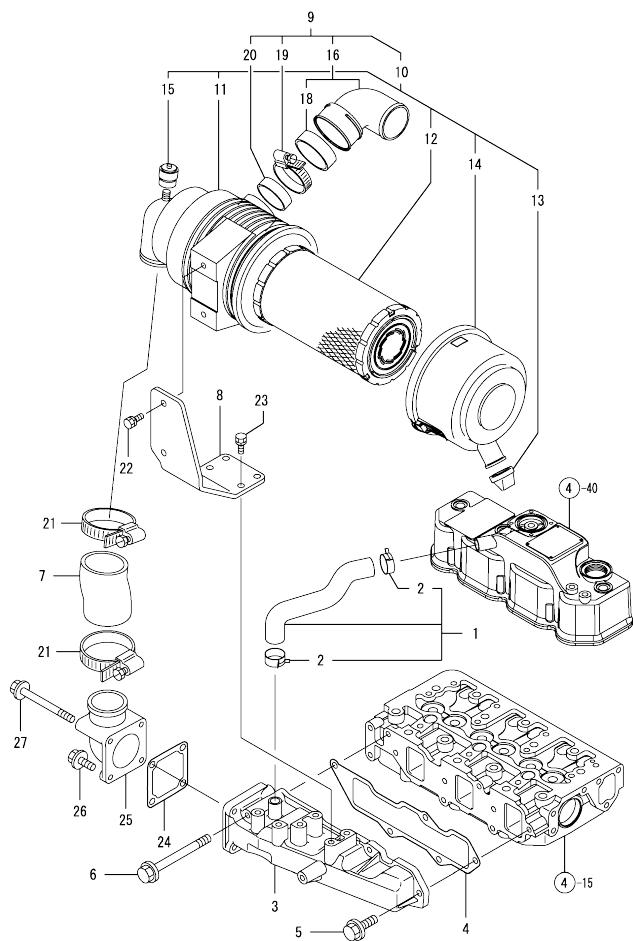
Remarks

(1) REPAIR PART.

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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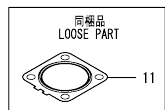
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Fig.5. SUCTION MANIFOLD & AIR CLEANER



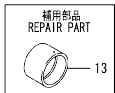
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-03080	PIPE , BREATHER	1							
2	2	129410-03990	CLAMP 22	2							
3	1	129004-12101	MANIFOLD, AIR INTAKE	1							
4	1	129001-12110	GASKET, MANIFOLD	1							
5	1	26106-080202	BOLT, M8X 20 PLATED	4							
6	1	26106-080802	BOLT, M8X 80 PLATED	1							
7	1	119910-12210	PIPE, AIR INTAKE	1							
8	1	119802-12560	BRACKET, AIR CLEANER	1							
9	1	119813-12600	CLEANER ASSY, AIR	1							
10	2	119813-12500	CLEANER ASSY, AIR	1							
11	3	119910-12510	BODY, AIR CLEANER	1							
12	3	119808-12520	ELEMENT	1							
13	3	119808-12540	VALVE, UNLOADER	1							
14	3	119866-12540	COVER ASSY	1							
15	3	126650-12680	INDICATOR	1							
16	2	129612-12560	ELBOW	1							
18	3	129612-12590	GASKET	1							
19	2	23000-060000	CLAMP, 60	1							
20	2	129259-12570	RING	1							
21	1	23000-060000	CLAMP, 60	2							
22	1	26013-080222	BOLT, M8X 22	2							
23	1	26013-080222	BOLT, M8X 22	4							
24	1	129150-77511	GASKET	1							
25	1	119803-77520	BEND, AIR HEATER	1							
26	1	26106-080202	BOLT, M8X 20 PLATED	2							
27	1	26106-080802	BOLT, M8X 80 PLATED	2							

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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				(A)=3TNV88-BPMB (B)= (C)=					(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	Q'ty									
				(A)	(B)	(C)	(D)	(E)	(F)				
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									
8	1	129004-13550	SILENCER	1									
9	1	26106-080252	BOLT, M8X 25 PLATED	2									
10	1	26306-080002	NUT, M8	4									
11	1	129004-13200	GASKET, SILENCER	2									

Fig.7. CAMSHAFT & DRIVING GEAR



No.	Lev.	Parts No.	Description	(A)=3TNV88-BPMB (B)= (C)=						(D)= (E)= (F)=						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														
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														
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														

N:Old

Yes

No

New

Q:Old

Yes

No

New

R:Old

Yes

No

New

S:Old

Yes

No

New

W:Add

Z:Discontinued

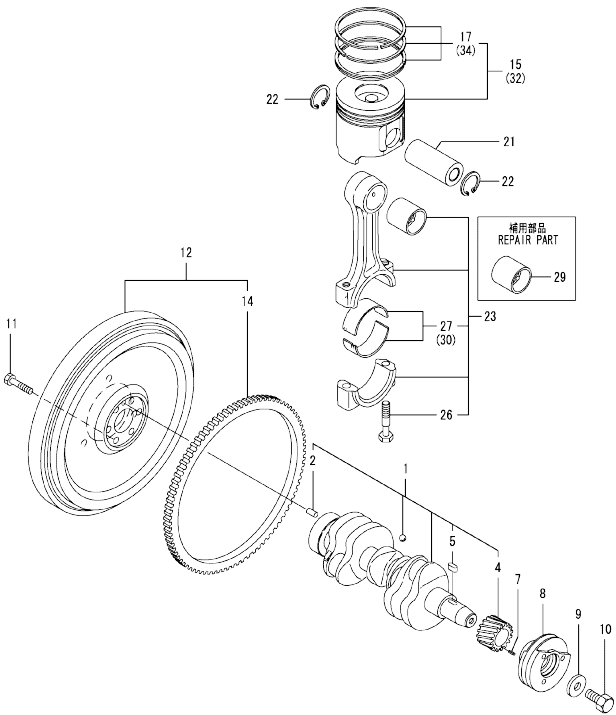
F:Interchangeable by set

K:Q'ty Change

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Fig.8. CRANKSHAFT & PISTON



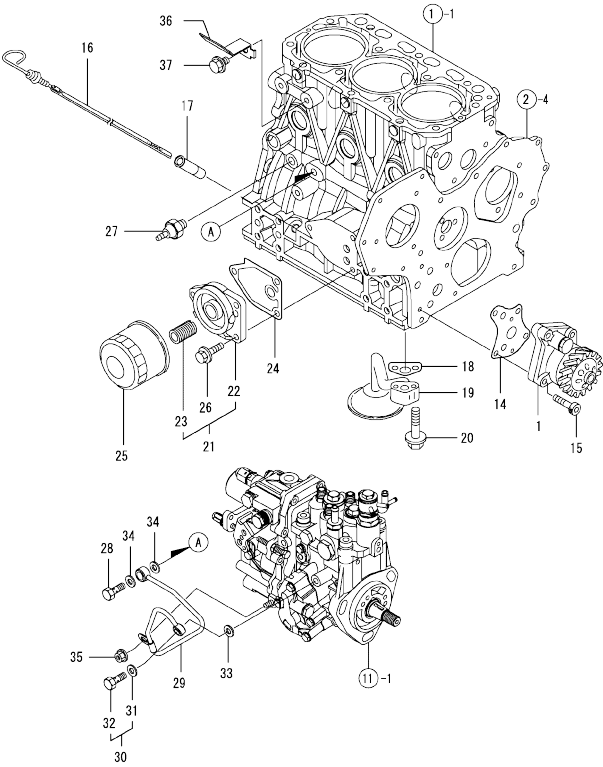
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129008-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	129004-21650	V-PULLEY, 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	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							
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

Remarks

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

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Fig.9. LUB.OIL SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	129004-34802	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35042	GASKET	1							
19	1	129100-35301	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	119802-35100	BRACKET ASSY, FILTER	1							
22	2	119802-35110	BRACKET, FILTER	1							
23	2	129100-35140	STUD	1							
24	1	129150-35111	GASKET	1							
25	1	129150-35153	FILTER 80X80L	1							1
26	1	26106-080202	BOLT, M8X 20 PLATED	3							
27	1	114250-39450	SWITCH, 0.5KG	1							
28	1	124160-39140	BOLT, PIPE JOINT M10	1							
29	1	119802-39450	PIPE ASSY, OIL	1							
30	1	129005-59830	BOLT ASSY, JOINT M8	1							
31	2	22190-080002	WASHER, SEAL 6	1							
32	2	23857-030000	BOLT, JOINT 3	1							
33	1	22190-080002	WASHER, SEAL 6	1							
34	1	22190-100002	WASHER, SEAL 10	2							
35	1	26366-060002	NUT, M6	1							
36	1	129136-66852	SUPPORT	1							
37	1	26106-080122	BOLT, M8X 12 PLATED	1							

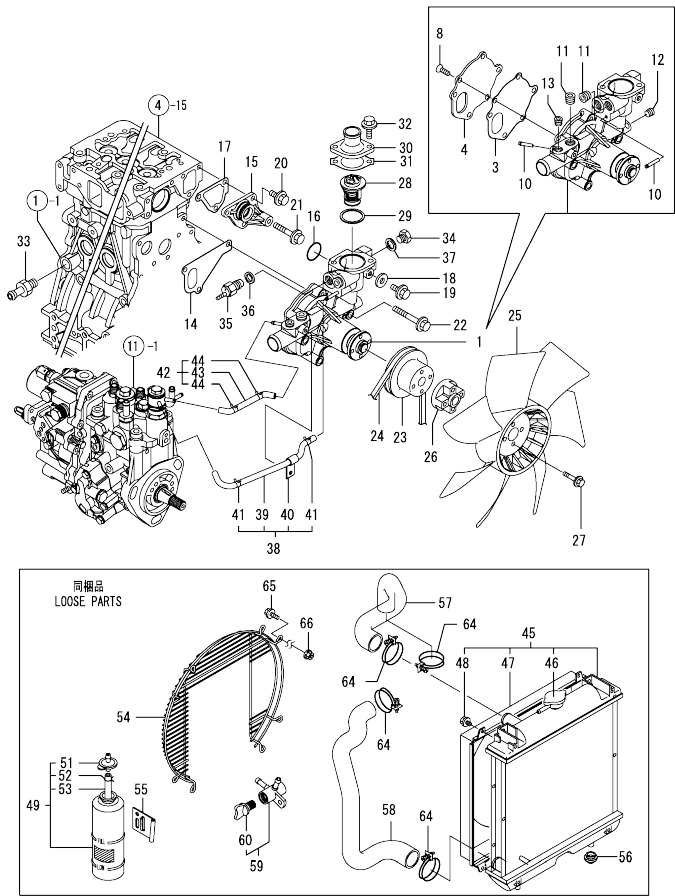
Remarks

(1) REPAIR PART.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{H0}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{H0}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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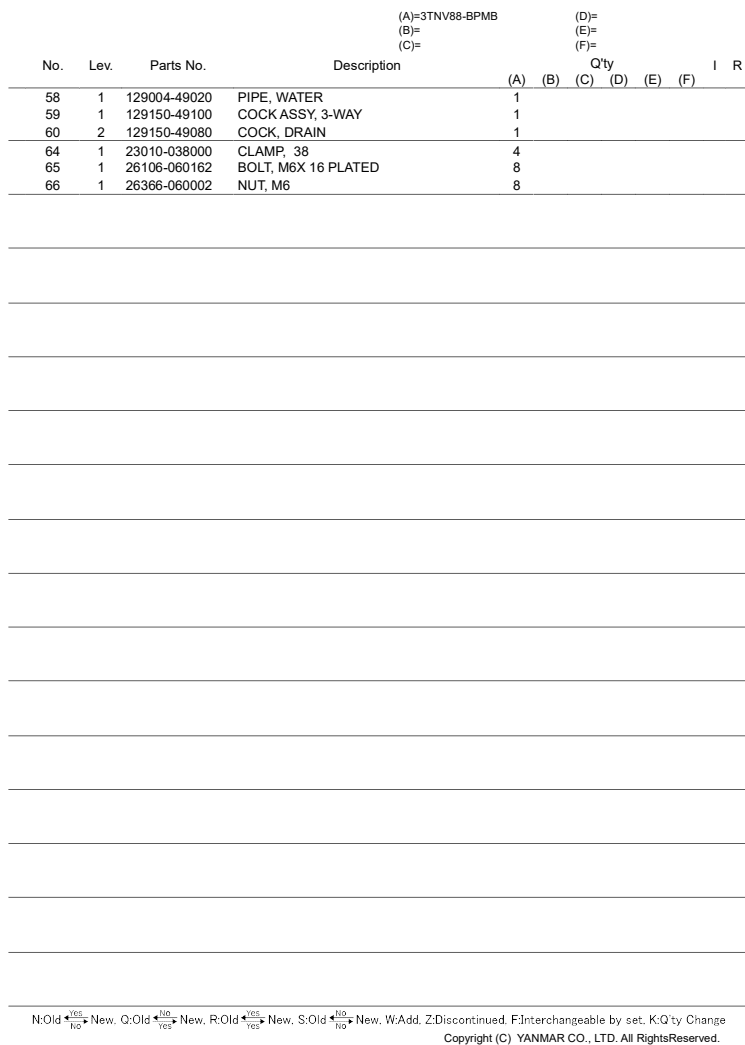
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Fig.10. COOLING WATER SYSTEM



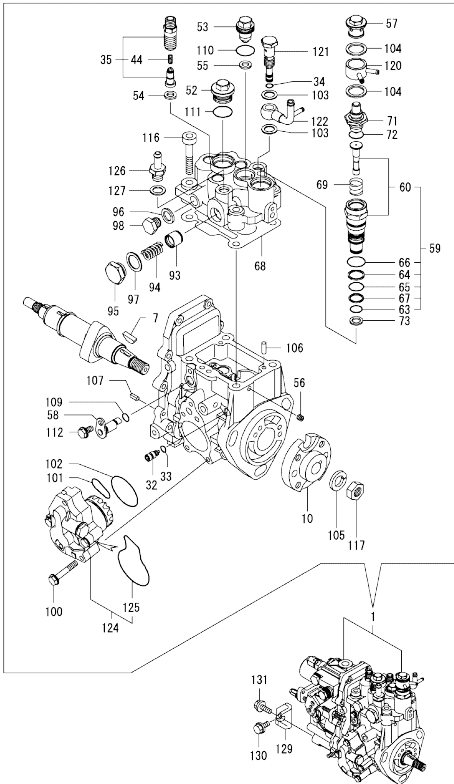
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE	1							
8	2	121850-42410	SCREW	3							
10	2	119802-49113	JOINT, PIPE	2							
11	2	129916-49740	PLUG, R03	2							
12	2	23876-010000	PLUG, R01	1							
13	2	23876-020000	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	129556-42350	V-PULLEY, 96	1							
24	1	129612-42330	V-BELT, A37.5	1							
25	1	119717-44740	FAN, COOLING D335X7	1							
26	1	121267-44760	SPACER	1							
27	1	26106-060302	BOLT, M6X 30 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	121550-49111	JOINT, PT1/4	1							
34	1	121450-42450	PLUG, M16	1							
35	1	121250-44901	SWITCH, 110	1							
36	1	124465-44950	GASKET, 16	1							
37	1	124465-44950	GASKET, 16	1							
38	1	129004-49610	PIPE ASSY, WATER	1							
39	2	129004-49711	PIPE ASSY, WATER	1							
40	2	119802-49730	RETAINER, PIPE	1							
41	2	124722-59050	CLIP, HOSE 9	2							
42	1	129004-49620	PIPE ASSY, WATER	1							
43	2	129004-49721	PIPE ASSY, WATER	1							
44	2	124722-59050	CLIP, HOSE 9	2							
45	1	129004-44500	RADIATOR ASSY	1							
46	2	129107-44590	CAP, RADIATOR	1							
47	2	119802-44600	SHROUD	1							
48	2	26014-060122	BOLT, M6X 12	4							
49	1	124450-44510	TANK ASSY, SUB	1							
51	2	124450-44530	CAP	1							
52	2	124450-44560	RETAINER	1							
53	2	23061-070230	PIPE, 7X 230	1							
54	1	119802-44570	GUARD	1							
55	1	121256-44600	BRACKET, SUB TANK	1							
56	1	119255-44660	ABSORBER	2							
57	1	129004-49010	PIPE, WATER	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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Fig.11. FUEL INJECTION PUMP

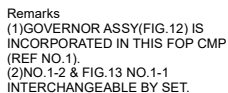


Remarks

(1)GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP CMP
(REF NO.1).
(2)NO.1-2 & FIG.13 NO.1-1
INTERCHANGEABLE BY SET.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729238-51420	PUMP ASSY, INJECTION	1							1
1-1	1	729238-51421	PUMP ASSY, INJECTION	1						N	1
(A="2008.11)											
1-2	1	729238-51550	PUMP ASSY, INJECTION	1						S	2
(A=E/#B4196)											
7	2	119802-51090	KEY, 4X16	1							
10	2	158552-51151	FLANGE	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	129008-51390	VALVE ASSY, DELIVERY	3							
44	3	158563-51330	SPRING, DELIVERY	3							
52	2	158601-51550	PLUG	1							
53	2	119802-51560	PLUG, BARREL	1							
54	2	158552-51571	GASKET	3							
55	2	158552-51571	GASKET	1							
56	2	158557-51570	PLUG	1							
57	2	158601-51570	PLUG	1							
58	2	158552-51580	LIFTER	1							
59	2	119802-51590	TIMER SET	1							
60	3	119802-51600	TIMER ASSY	1							
63	3	158553-51670	O-RING, 1011	1							
64	3	119802-51680	RING, BACK UP	1							
65	3	119802-51690	O-RING	1							
66	3	24356-010200	O-RING, 4D1020	1							
67	3	24372-000150	RING, BACK UP T2P15	1							
68	2	158552-51600	GASKET	1							
69	2	158553-51630	SPRING, TIMER	1							
70	3	158553-51640	ELEMENT	1							
70-1	3	158553-51650	ELEMENT	1						N	
(A="2008.11)											
72	2	158553-51660	O-RING, P14	1							
73	2	158553-51680	GASKET	1							
93	2	158601-51770	PISTON	1							
94	2	158552-51781	SPRING	1							
95	2	158601-51790	PLUG	1							
96	2	22190-120002	WASHER, SEAL 12	1							
97	2	22190-180002	WASHER, SEAL 18	1							
98	2	23887-120002	PLUG, 12	1							
100	2	158553-51770	BOLT	4							
101	2	158552-52310	O-RING	1							
102	2	158552-52400	O-RING, 4E S42	1							
103	2	22190-120002	WASHER, SEAL 12	2							
104	2	22190-180002	WASHER, SEAL 18	2							
105	2	22217-140000	WASHER, SPRING 14	1							
106	2	22312-050140	PIN, PARALLEL M5X14	2							
107	2	22351-050010	PIN, SPRING 5.0X10	2							
109	2	24311-000070	O-RING, 1AP7.0	1							
110	2	24356-010180	O-RING, 4D1018	1							
111	2	24356-010200	O-RING, 4D1020	1							
112	2	26106-060102	BOLT, M6X 10 PLATED	1							

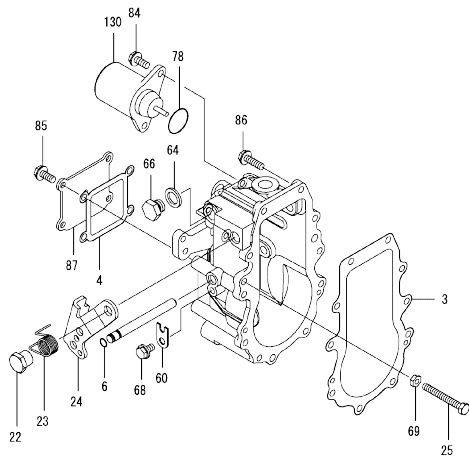
N:Old $\frac{New}{Old}$ New, Q:Old $\frac{New}{Old}$ New, R:Old $\frac{New}{Old}$ New, S:Old $\frac{New}{Old}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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[illegible]

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

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Fig.12. GOVERNOR

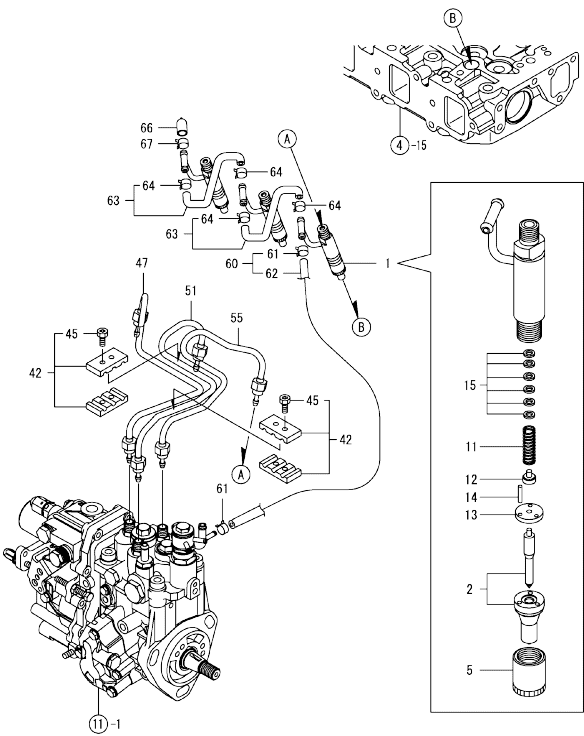


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
22	2	129255-61410	NUT, LOCK	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	158552-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, IDLE	1							
60	2	119660-61901	RETAINER, SHAFT	1							
64	2	22190-120000	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							
87	2	129642-61060	COVER, GOVERNOR CASE	1							
130	2	119233-77932	SOLENOID, STOP	1							

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

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Fig.13. FUEL INJECTION VALVE

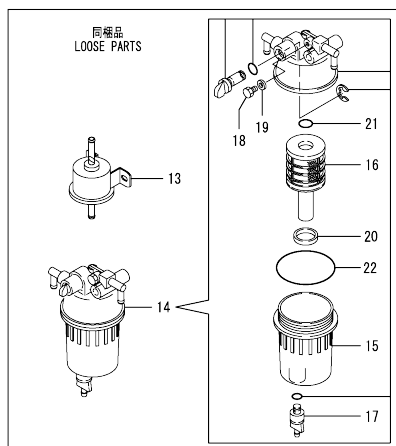


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53100	VALVE ASSY,INJECTION	3							
1-1	1	729604-53300	VALVE ASSY,INJECTION	3						S	1
(A=E/#B4196)											
2	2	129604-53000	VALVE ASSY,INJECTION	3							
2-1	2	129604-53300	VALVE ASSY,INJECTION	3						S	
(A=E/#B4196)											
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							

Remarks
(1)NO.1-1 & FIG.11 NO.1-2
INTERCHANGEABLE BY SET.

N:Old $\frac{Y_{100}}{100}$ New, Q:Old $\frac{H_{100}}{100}$ New, R:Old $\frac{Y_{100}}{100}$ New, S:Old $\frac{H_{100}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.14. FUEL LINE



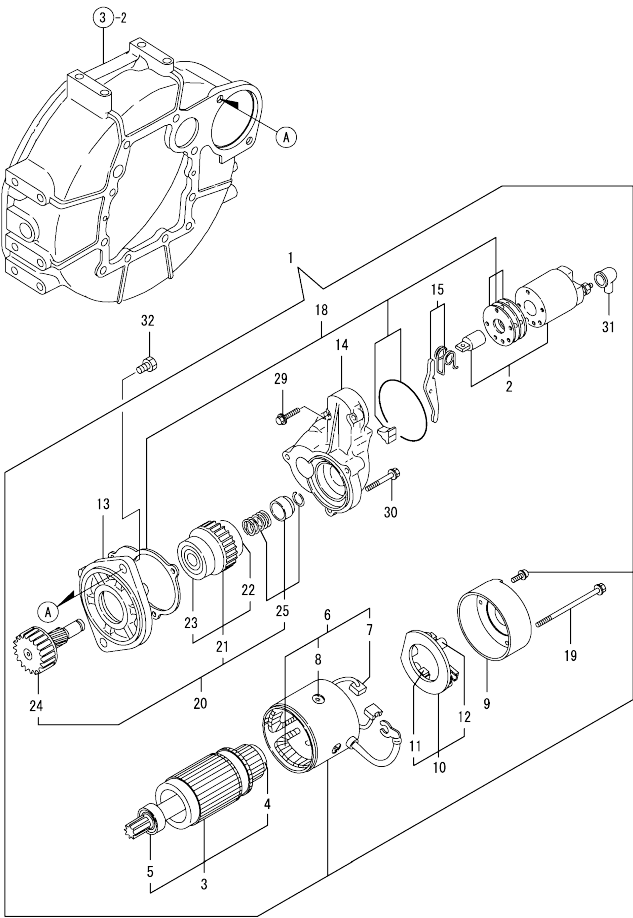
				(A)=3TNV88-BPMB	(D)=						I	R	
				(B)=	(E)=								
				(C)=	(F)=								
No.	Lev.	Parts No.	Description	Q'ty									
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129004-55612	BRACKET, FILTER	1									
2	1	119802-55801	FILTER, FUEL	1									
3	1	26106-080302	BOLT, M8X 30 PLATED	2									
4	1	129044-59010	PIPE, D13/7.5X220	1									
5	2	124766-59050	CLIP, HOSE 12	2									
6	2	129044-59100	TUBE, CORRUGATED	1									
7	2	129044-59510	PIPE, FUEL 220	1									
8	1	129950-59311	PIPE, FUEL	1									
9	2	124766-59050	CLIP, HOSE 12	2									
10	2	129961-59110	TUBE, CORRUGATED	1									
11	2	105025-59580	PIPE, FUEL	1									
12	1	121750-59890	BAND, 140	1									
13	1	119225-52102	PUMP ASSY, FUEL FEED	1									
14	1	129242-55710	SEPARATOR ASSY	1									
15	2	129242-55720	CUP	1									
16	2	129242-55730	ELEMENT	1									
17	2	129242-55740	PLUG, DRAIN	1									
18	2	129242-55750	VALVE, AIR VENT	1									
19	2	129242-55760	GASKET	1									
20	2	129242-55770	FLOAT	1									
21	2	24311-000160	O-RING, 1AP16.0	1									
22	2	24321-000750	O-RING, 1AG75.0	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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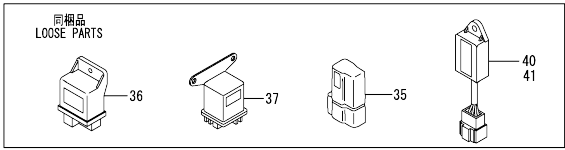
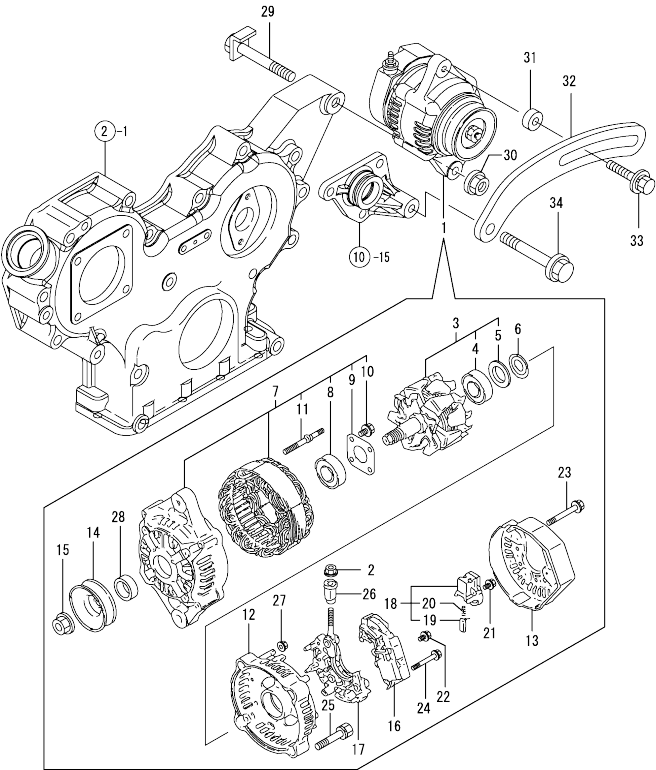
Fig.15. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(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	BALL BEARING	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, REAR	1							
10	2	129900-77480	HOLDER ASSY, BRASH	1							
11	3	129900-77450	BRUSH (+)	2							
12	3	129400-77490	SPRING, BRUSH	4							
13	2	171008-77510	HOUSING ASSY, GEAR	1							
14	2	129136-77520	CENTER HOUSING	1							
15	2	171008-77540	LEVER SET, SHIFT	1							
18	2	129400-77571	COVER KIT, 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	BALL BEARING	1							
23	4	X2240410100	BEARING, BALL	1							
24	3	171008-77660	SHAFT, PINION	1							
25	3	171008-77670	STOPPER SET, PINION	1							
29	2	26106-060322	BOLT, M6X 32 PLATED	2							
30	2	26106-060402	BOLT, M6X 40 PLATED	3							
31	2	171008-77750	COVER, M TERMINAL	1							
32	1	26116-120252	BOLT, M12X 25 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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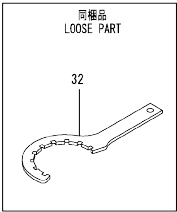
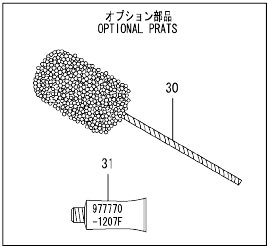
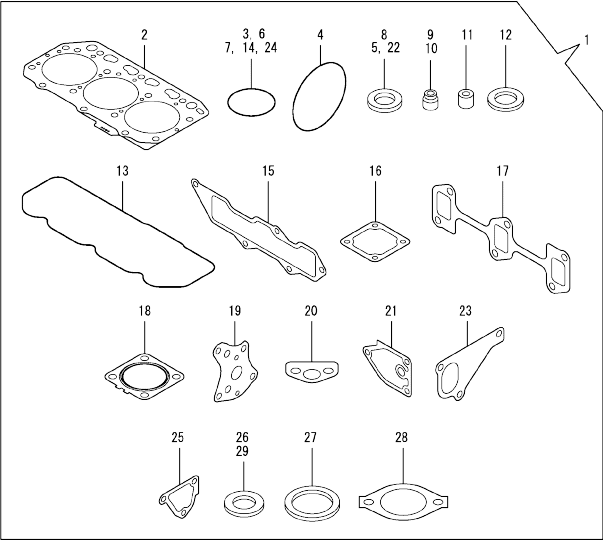
Fig.16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129423-77200	GENERATOR, 12V-40A	1							
2	2	X9490561001	NUT	1							
3	2	119620-77380	ROTOR ASSY	1							
4	3	119620-79240	BALL BEARING	1							
5	3	119620-79250	COVER, BEARING	1							
6	2	119620-79360	WASHER, THRUST	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	129240-79300	COVER	1							
14	2	119620-77461	PULLEY	1							
15	2	119620-77471	NUT	1							
16	2	129423-77710	REGULATOR ASSY	1							
17	2	119620-79260	HOLDER	1							
18	2	119620-79270	HOLDER, BRUSH	1							
19	3	119620-77480	BRUSH ASSY	2							
20	3	119620-79280	SPRING	2							
21	2	119620-79290	SCREW	1							
22	2	119620-79300	SCREW	1							
23	2	119620-79310	BOLT	3							
24	2	119620-79320	SCREW W/WASHER	2							
25	2	119620-79330	BOLT	2							
26	2	119620-79340	INSULATION BUSH	1							
27	2	119620-79350	NUT	2							
28	2	119620-77490	COLLAR	1							
29	1	119740-77250	BOLT, M10X76	1							
30	1	26306-100002	NUT, M10	1							
31	1	119940-77270	SPACER, GENERATOR	1							
32	1	119802-77330	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	119802-77200	RELAY, SAFETY	1							
37	1	119650-77910	RELAY ASSY, GLOW	2							
40	1	128300-77920	TIMER	1							
41	1	129211-77920	TIMER	1							

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Fig.17. GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-92810	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	22190-080002	WASHER, SEAL 6	7							
6	2	24311-000320	O-RING, 1AP32.0	2							
7	2	24341-000240	O-RING, 1AS24.0	1							
8	2	22190-220002	WASHER, SEAL 22	1							
9	2	121400-11340	SEAL, VALVE STEM	3							
10	2	124460-11340	SEAL, VALVE STEM	3							
11	2	119802-11870	PROTECTOR, NOZZLE	3							
12	2	119625-11880	SEAT, NOZZLE	3							
13	2	129004-11310	GASKET, BONNET	1							
14	2	24311-000120	O-RING, 1AP12.0	3							
15	2	129001-12110	GASKET, MANIFOLD	1							
16	2	129150-77511	GASKET	1							
17	2	129150-13110	GASKET	1							
18	2	129004-13200	GASKET, SILENCER	3							
19	2	129150-32020	GASKET, PUMP	1							
20	2	129150-35042	GASKET	1							
21	2	129150-35111	GASKET	1							
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
32	1	119803-92700	WRENCH, FILTER	1							

Remarks

(1) OPTIONAL PART.

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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