

0CW10-M47300EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV88-BGKM for KOHLER.

Pub.No. : 0CW10-G47300

Published : February, 2009

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV88-BGKM	MARINE GENERATOR	KOHLER

Directions for the Parts Catalog.

- 1.The parts stipulated in this Parts Catalog are not necessarily standard equipped 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)

1

REF.

2

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

3

I

5

R

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 Mark

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 Mark

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

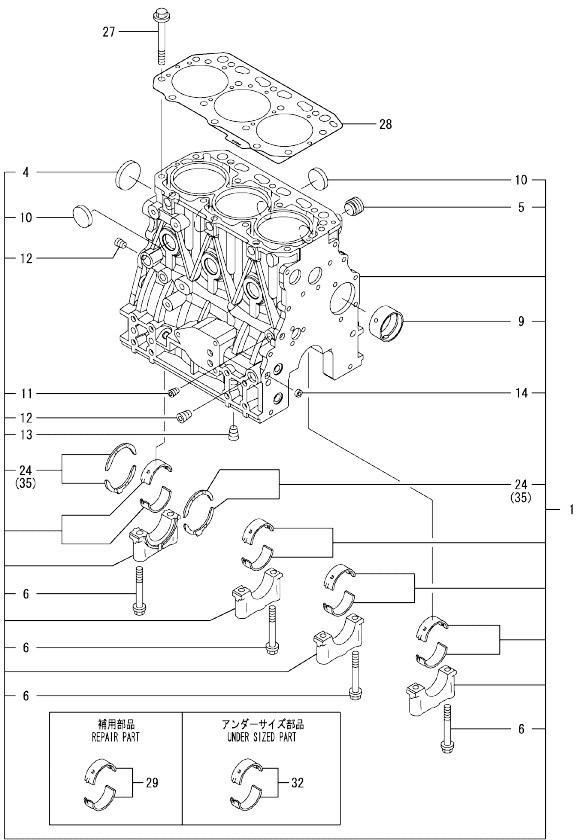
0CW10-M47300

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

Fig.1. CYLINDER BLOCK

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

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

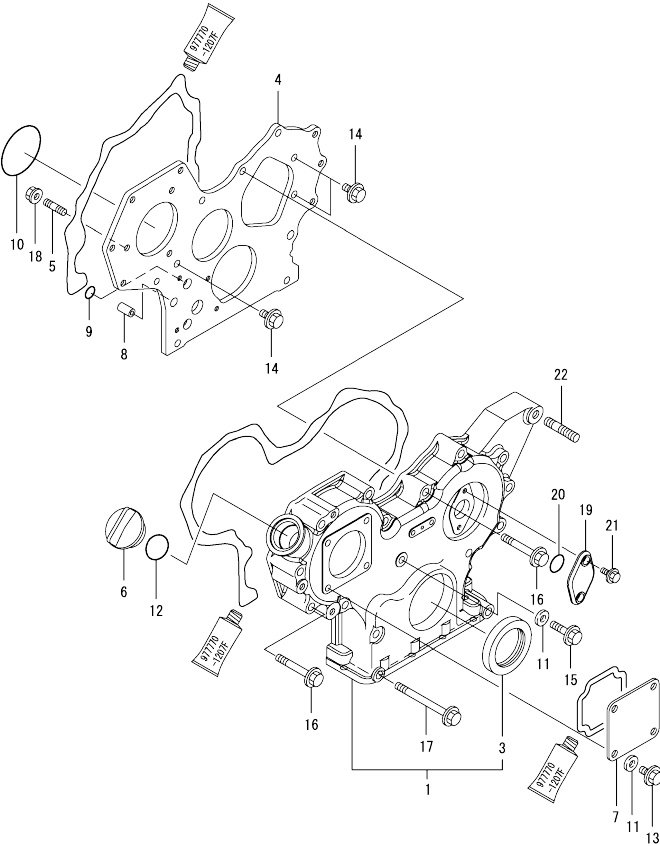


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
4	2	129001-01250	PLUG, 50	1							
5	2	171051-01921	PLUG, NPTF1	1							
6	2	129150-02020	BOLT, METAL CAP	8							
9	2	129795-02412	BUSH, CAMSHAFT	1							
10	2	27241-300000	PLUG 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.

0CW10-M47300 3TNV88-BGKM

Fig.2. GEAR HOUSING



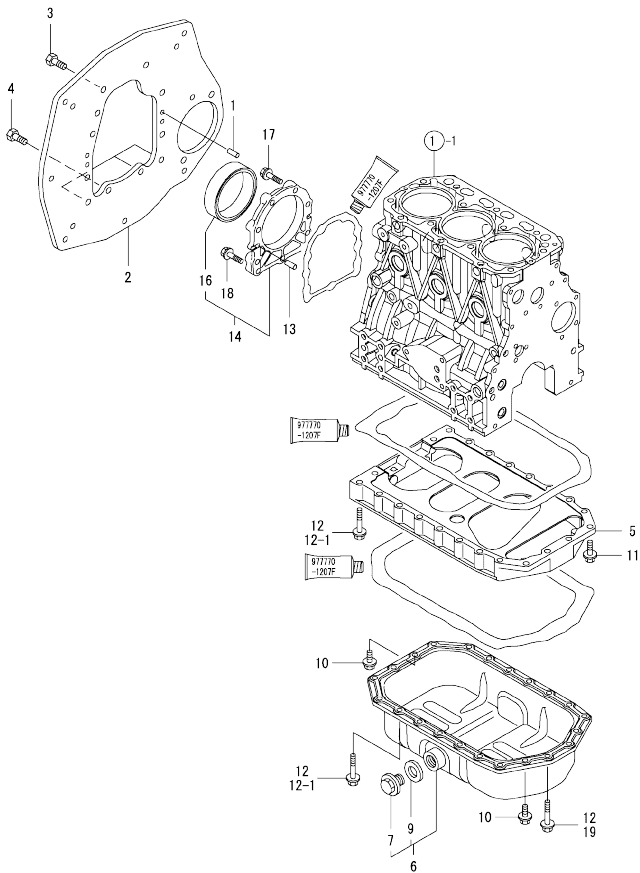
0CW10-M47300 Fig.2

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729283-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
3-1	2	129795-01800	SEAL, OIL	1						N	
(A=EU5129)											
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	CAP, FILLER	1							
7	1	124240-01871	COVER, HYDRAULIC PUMP	1							
8	1	129795-01950	PIPE, KNOCK L=18	2							
9	1	119609-32040	O-RING, P16	2							
10	1	121850-51960	O-RING, FUEL PUMP	1							
11	1	22190-080002	WASHER, SEAL 8	5							
12	1	24311-000320	O-RING, 1AP32.0	1							
13	1	26106-080162	BOLT, M8X 16 PLATED	4							
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	26106-080852	BOLT, M8X 85 PLATED	3							
18	1	26306-080002	NUT, M8	3							
19	1	121023-01551	COVER, TACHOMETER	1							
20	1	24341-000240	O-RING, 1AS24.0	1							
21	1	26106-060162	BOLT, M6X 16 PLATED	2							
22	1	129795-01900	BOLT, M10X30	1							

Fig.3. MOUNTING FLANGE & OIL SUMP



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

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

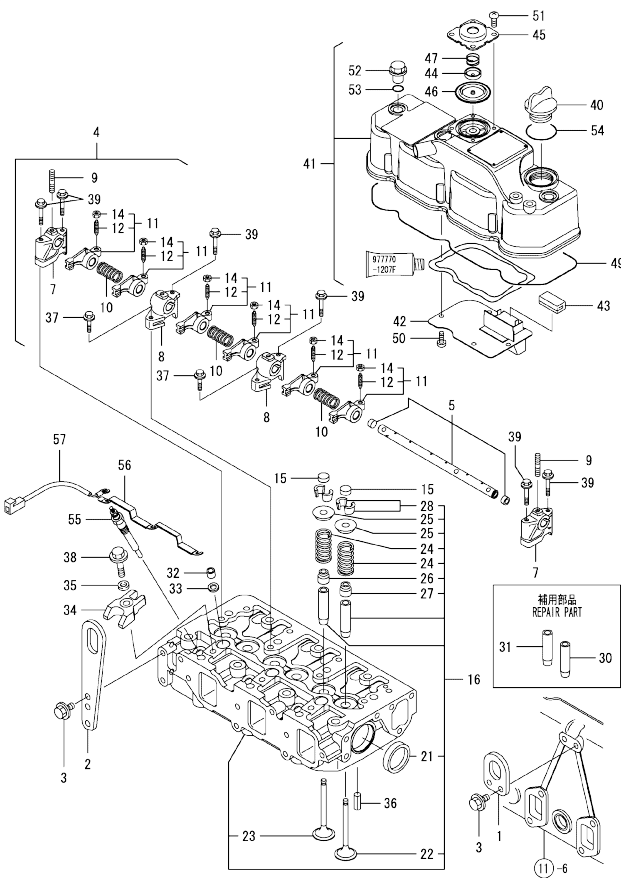
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129176-01601	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	6							
4	1	26206-100252	BOLT, M10X 25 PLATED	4							
5	1	129100-01730	SPACER, OIL SUMP	1							
6	1	129175-01770	SUMP ASSY, OIL	1							
7	2	119640-01640	PLUG, DRAIN M22	1							
9	2	22190-220002	WASHER, SEAL 22	1							
10	1	26106-080162	BOLT, M8X 16 PLATED	4							
11	1	26106-080252	BOLT, M8X 25 PLATED	2							
12	1	26106-080452	BOLT, M8X 45 PLATED	20							
12-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K

(A=FROM 1ST)

13	1	129100-01580	PIN, M8X16	2							
14	1	129100-01640	CASE ASSY, OIL SEAL	1							
16	2	129795-01780	SEAL, OIL	1							
17	1	129486-01670	BOLT, M8X30	6							
18	1	26106-080352	BOLT, M8X 35 PLATED	3							
19	1	26106-080502	BOLT, M8X 50 PLATED	4							W

(A=FROM 1ST)

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

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

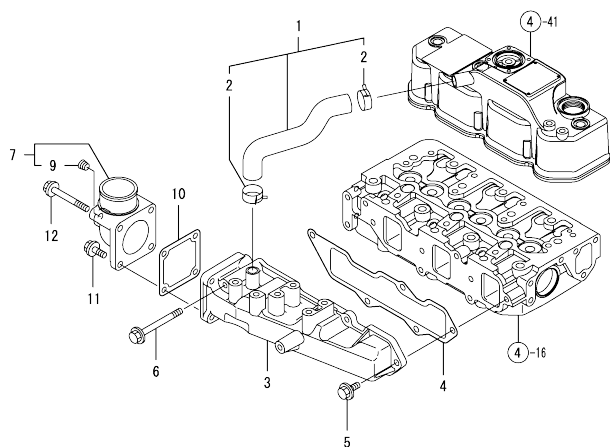
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-07230	LIFTER	1							
2	1	129900-07900	LIFTER	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	4							
4	1	129004-11241	SHAFT ASSY, ROCKER	1							
5	2	129004-11251	SHAFT, ROCKER ARM	1							
7	2	119802-11260	SUPPORT, ROCKER ARM	2							
8	2	119802-11270	SUPPORT, ROCKER ARM	2							
9	2	119802-11280	STUD	3							
10	2	129150-11280	SPRING	3							
11	2	129004-11650	ARM, ROCKER	6							
12	3	129150-11230	SCREW, VALVE ADJUST	6							
14	3	129150-11750	NUT, M8	6							
15	1	129150-11370	CAP. VALVE	6							
16	1	129008-11700	HEAD ASSY, CYLINDER	1							
21	2	27241-400000	PLUG, 40	2							
22	2	129005-11100	VALVE, INTAKE	3							
23	2	129100-11112	VALVE, EXHAUST	3							
24	2	129795-11120	SPRING, VALVE	6							
25	2	129795-11180	RETAINER, SPRING	6							
26	2	121400-11340	SEAL, VALVE STEM	3							
27	2	124460-11340	SEAL, VALVE STEM	3							
28	2	27310-080001	COTTER, 8	6							
30	1	120130-11860	GUIDE, VALVE	3							1
31	1	129150-11810	GUIDE, VALVE	3							1
32	1	119802-11870	PROTECTOR, NOZZLE	3							
33	1	119625-11880	SEAT, NOZZLE	3							
34	1	129004-11900	RETAINER, NOZZLE	3							
35	1	120270-54410	WASHER, INJECTOR	3							
36	1	22351-060012	PIN, SPRING 6.0X12	2							
37	1	26106-080252	BOLT, M8X 25 PLATED	2							
38	1	26106-080352	BOLT, M8X 35 PLATED	3							
39	1	26106-080502	BOLT, M8X 50 PLATED	6							
40	1	124160-01751	COVER, FILLER	1							
41	1	129004-11350	BONNET ASSY, HEAD	1							
42	2	129004-03010	PLATE	1							
43	2	129150-03070	BAFFLE, BREATHER	1							
44	2	119802-03110	PLATE	1							
45	2	119802-03121	COVER, DIAPHRAGM	1							
46	2	119802-03130	DIAPHRAGM	1							
47	2	119802-03141	SPRING, DIAPHRAGM	1							
49	2	129004-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW, 5X10	4							
51	2	22857-500100	SCREW, 5X10	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING, 1AP12.0	3							
54	1	24311-000320	O-RING, 1AP32.0	1							
55	1	129008-77800	PLUG, GLOW	3							
56	1	129008-77820	CONNECTOR, GLOW PLUG	1							
57	1	119803-77830	HARNES, WIRE	1							

Fig.5. SUCTION MANIFOLD

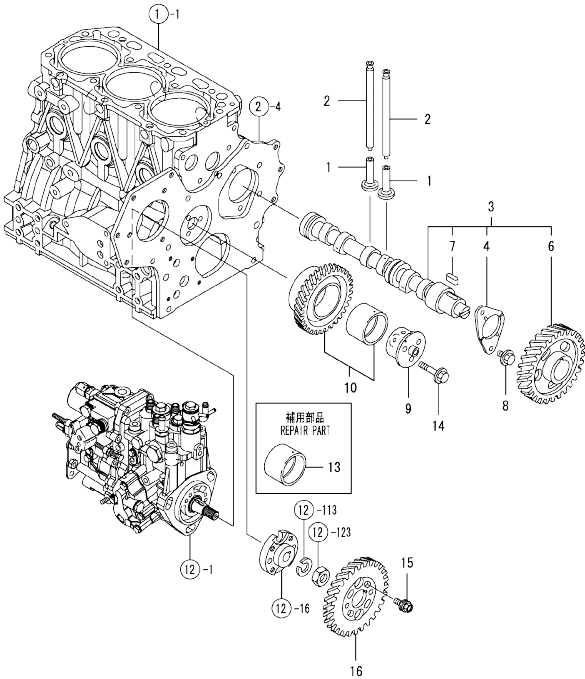
(D)=
(E)=

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

[illegible]

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

Fig.6. CAMSHAFT & DRIVING GEAR



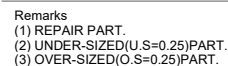
Remarks
(1) REPAIR PART.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	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	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							

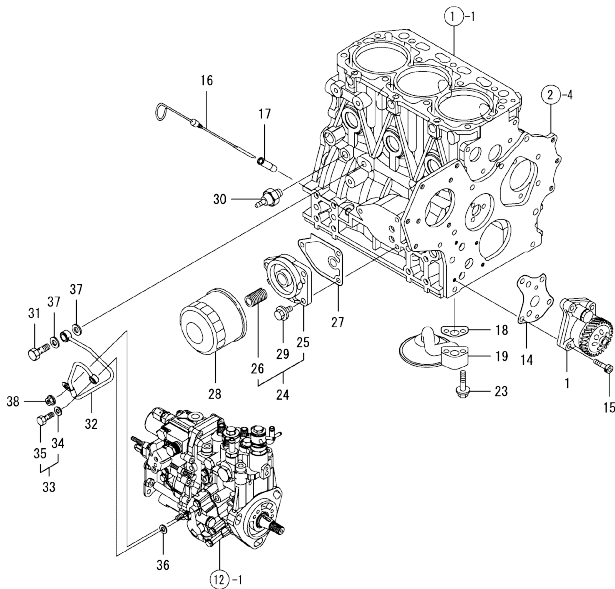
Fig.7. CRANKSHAFT & PISTON



(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

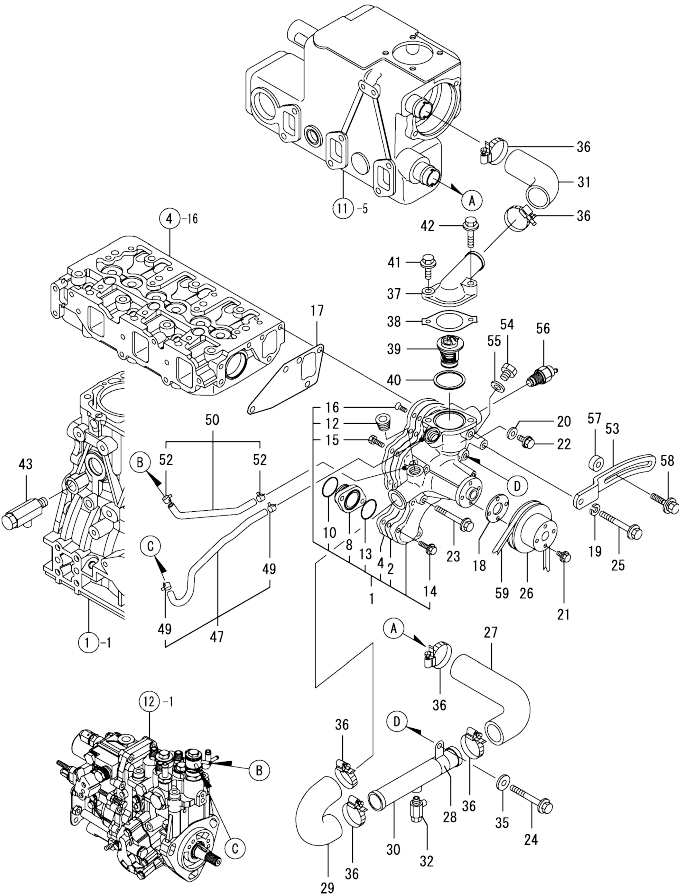
Fig.8. LUB.OIL SYSTEM



Remarks
(1) REPAIR PART.

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	171420-34800	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35042	GASKET	1							
19	1	129150-35091	PIPE ASSY, OIL INLET	1							
23	1	26106-080352	BOLT, M8X 35 PLATED	2							
24	1	119802-35100	BRACKET ASSY, FILTER	1							
25	2	119802-35110	BRACKET, FILTER	1							
26	2	129100-35140	STUD	1							
27	1	129150-35111	GASKET	1							
28	1	129150-35170	FILTER, LO	1							1
29	1	26106-080202	BOLT, M8X 20 PLATED	3							
30	1	114250-39450	SWITCH, 0.5KG	1							
31	1	124160-39140	BOLT, PIPE JOINT M10	1							
32	1	119802-39450	PIPE ASSY, OIL	1							
33	1	129005-59830	BOLT ASSY, JOINT M8	1							
34	2	22190-080002	WASHER, SEAL 6	1							
35	2	23857-030000	BOLT, JOINT 3	1							
36	1	22190-080002	WASHER, SEAL 6	1							
37	1	22190-100002	WASHER, SEAL 10	2							
38	1	26366-060002	NUT, M6	1							

Fig.9. COOLING FRESH WATER SYSTEM



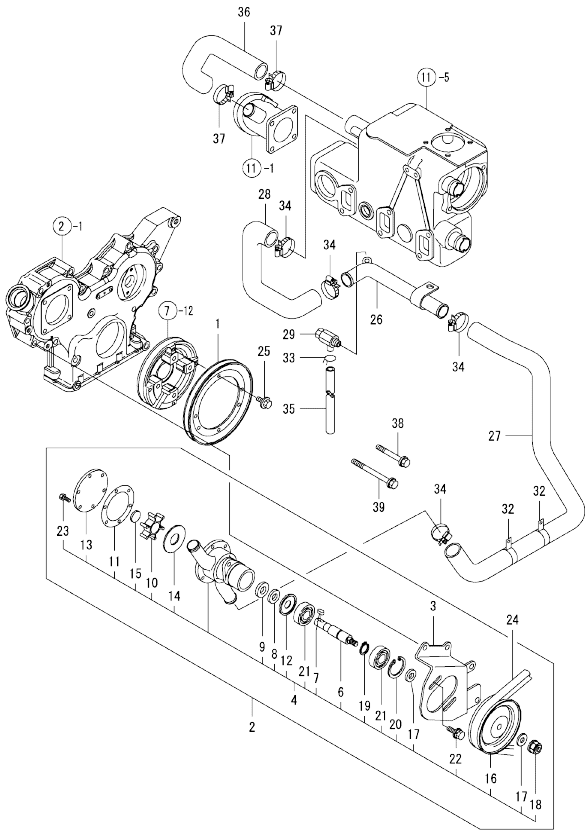
(A)=3TNV88-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129247-42000	PUMP ASSY, WATER	1							
2	2	129150-42059	GASKET	1							
4	2	129263-42120	PLATE	1							
8	2	129150-42301	FLANGE	1							
10	2	129054-42320	O-RING	1							
12	2	129916-49740	PLUG, R03	2							
13	2	24358-240310	O-RING, 524031	1							
14	2	26106-060202	BOLT, M6X 20 PLATED	2							
15	2	26116-060162	BOLT, M6X 16 PLATED	3							
16	2	26577-060162	SCREW, M6X16	3							
17	1	129486-42050	GASKET, WATER PUMP	1							
18	1	129156-44760	WASHER	1							
19	1	22217-080000	WASHER, SPRING 8	1							
20	1	23414-080000	GASKET, 8X1.0	1							
21	1	26106-060102	BOLT, M6X 10 PLATED	4							
22	1	26106-080122	BOLT, M8X 12 PLATED	1							
23	1	26106-080552	BOLT, M8X 55 PLATED	2							
24	1	26106-080552	BOLT, M8X 55 PLATED	1							
25	1	26106-080652	BOLT, M8X 65 PLATED	1							
26	1	129550-42350	V-PULLEY, D=120	1							
27	1	129470-49200	JOINT, RUBBER	1							
28	1	129470-49220	RETAINER	1							
29	1	129470-49240	JOINT, RUBBER 28	1							
30	1	129470-49250	PIPE, WATER	1							
31	1	129170-49260	JOINT	1							
32	1	129670-49290	COCK ASSY, R1/8	1							
35	1	22137-080000	WASHER, 8	1							
36	1	23000-041000	CLAMP, 41	6							
37	1	129470-49540	COVER, THERMOSTAT	1							
38	1	129795-49551	GASKET	1							
39	1	129457-49801	THERMOSTAT, 82	1							
40	1	129470-49810	GASKET, THERMOSTAT	1							
41	1	26106-080252	BOLT, M8X 25 PLATED	1							
42	1	26106-080352	BOLT, M8X 35 PLATED	1							
43	1	119620-49290	COCK ASSY, 1/4	1							
47	1	129263-49610	PIPE, WATER	1							
49	2	124722-59050	CLIP, HOSE 9	2							
50	1	129263-49620	PIPE, WATER	1							
52	2	124722-59050	CLIP, HOSE 9	2							
53	1	129410-77330	ADJUSTER	1							
54	1	121450-42450	PLUG, M16	1							
55	1	124465-44950	GASKET, 16	1							
56	1	127610-91350	SWITCH, 95	1							
57	1	119940-77270	SPACER, GENERATOR	1							
58	1	119802-77340	BOLT, ADJUSTER	1							
59	1	25132-004400	V-BELT, A44	1							

0CW10-M47300 3TNV88-BGKM

Fig.10. COOLING SEA WATER SYSTEM



Remarks
LOOSE PART

0CW10-M47300 Fig.10

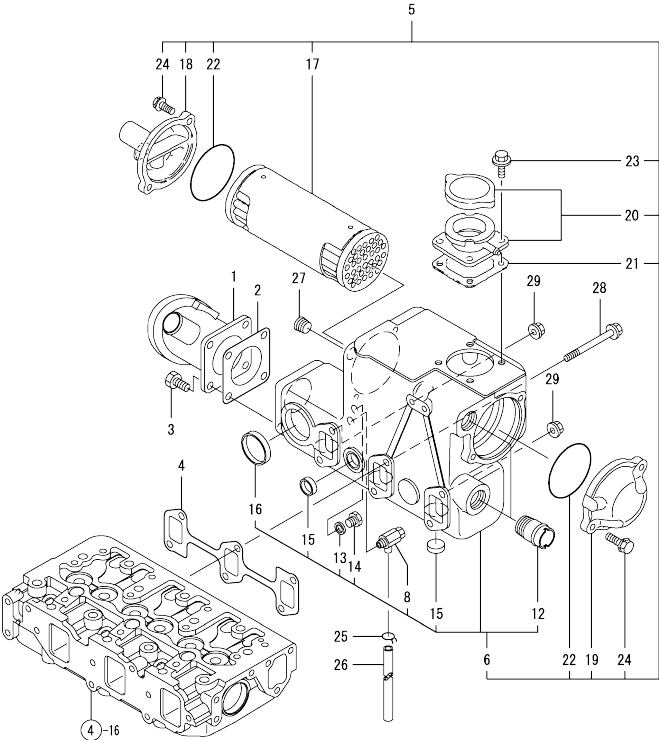
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	104407-21600	V-PULLEY	1							
2	1	129283-42500	PUMP ASSY, WATER	1						Z	
(A="2009.04)											
3	2	129283-42150	BRACKET, PUMP	1							
4	2	129579-42502	PUMP ASSY, WATER	1							
6	3	121575-42021	SHAFT, IMPELLER	1							
7	3	124223-42040	KEY	1							
8	3	124223-42070	PIECE	1							
9	3	124223-42080	SEAL, TC13X28X7	1							
10	3	124223-42092	IMPELLER	1							
11	3	124223-42110	GASKET, WATER PUMP	1							
12	3	121575-42120	COVER, BEARING	1							
13	3	121575-42150	COVER	1							
14	3	129579-42160	PLATE	1							
15	3	129579-42190	COVER	1							
16	3	124070-42400	V-PULLEY	1							
17	3	124070-42420	WASHER	2							
18	3	129579-42590	NUT, M8	1							
19	3	22242-000150	RING, 15	1							
20	3	22252-000350	RING, 35	1							
21	3	24107-062024	BEARING, BALL 6202ZZ	2							
22	3	26014-080162	BOLT, M8X 16	2							
23	3	26113-040088	BOLT, M4X 8	6							
24	1	104214-42780	V-BELT, HM30	1							1
25	1	26106-060082	BOLT, M6X 8 PLATED	4							
26	1	129080-49010	PIPE, WATER	1							1
27	1	171487-49010	PIPE, WATER	1							1
28	1	129475-49020	PIPE, WATER	1							1
29	1	129670-49290	COCK ASSY, R1/8	1							1
32	1	129579-49460	RETAINER, D32	2							1
33	1	124460-77680	RETAINER	1							1
34	1	23000-035000	CLAMP, 35	4							1
35	1	23061-070300	PIPE, 7X 300	1							1
36	1	129475-49040	PIPE, WATER	1							
37	1	23000-035000	CLAMP, 35	2							
38	1	26106-080602	BOLT, M8X 60 PLATED	2						W	1
(A="2009.04)											
39	1	26106-080902	BOLT, M8X 90 PLATED	2						W	1
(A="2009.04)											

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{HIS}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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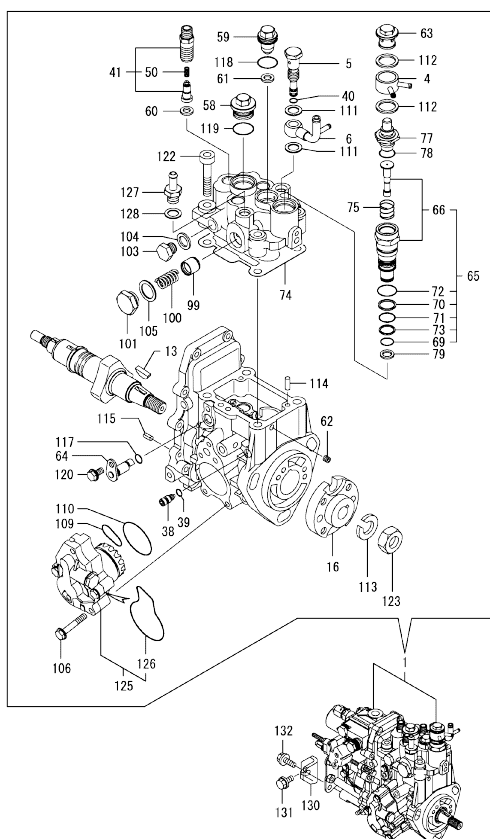
Fig.11. COOLING FRESH WATER COOLER



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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129619-13560	ELBOW	1							
2	1	129472-18090	GASKET	1							
3	1	26115-080202	BOLT, M8X 20	4							
4	1	129150-13110	GASKET	1							
5	1	129176-44900	COOLER ASSY, WATER	1							
6	2	129176-44000	COOLER ASSY, WATER	1							
8	3	119620-49290	COCK ASSY, 1/4	1							
12	3	124160-49480	JOINT, PIPE	2							
13	3	23414-170000	GASKET, 17X1.0	1							
14	3	23894-030002	PLUG, G3/8	1							
15	3	27241-280000	PLUG, 28	7							
16	3	27241-400000	PLUG, 40	1							
17	2	129170-44110	CORE ASSY, COOLER	1							
18	2	129470-44440	COVER, A	1							
19	2	129470-44450	COVER, B	1							
20	2	129171-44600	FILLER ASSY	1							
21	2	120445-44640	GASKET	1							
22	2	24321-000750	O-RING, 1AG75.0	2							
23	2	26106-080162	BOLT, M8X 16 PLATED	4							
24	2	26106-080252	BOLT, M8X 25 PLATED	4							
25	1	124460-77680	RETAINER	1							
26	1	23061-070300	PIPE, 7X 300	1							
27	1	23876-030000	PLUG, R03	1							
28	1	26106-081002	BOLT, M8X100 PLATED	4							
29	1	26306-080002	NUT, M8	2							

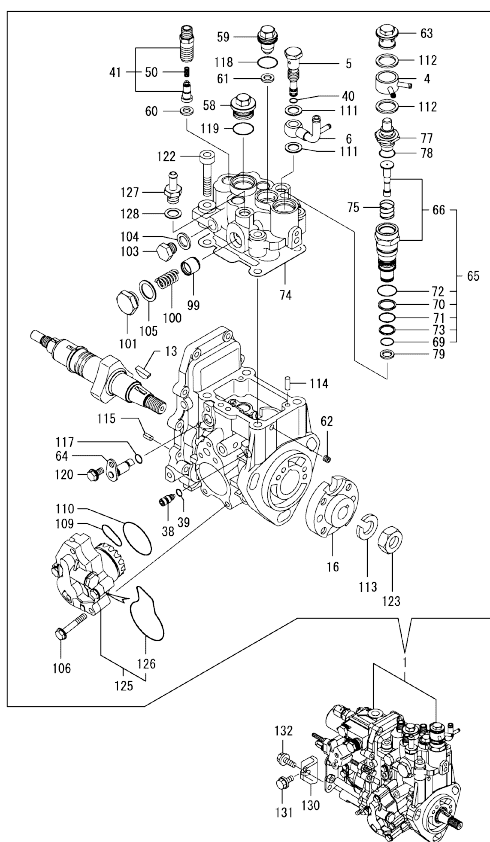


				(A)=3TNV88-BGKM							(D)=		
				(B)=							(E)=		
				(C)=							(F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R	
1	1	729283-51390	PUMP ASSY, INJECTION	1								1	
4	2	158553-51551	JOINT	1									
5	2	158601-51650	JOINT, OVER FLOW	1									
6	2	158552-51670	JOINT, OVER FLOW	1									
13	2	119802-51090	KEY, 4X16	1									
16	2	158552-51151	FLANGE	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	1290008-51390	VALVE ASSY, DELIVERY	3									
50	3	158563-51330	SPRING, DELIVERY	3									
58	2	158601-51550	PLUG	1									
59	2	119802-51560	PLUG, BARREL	1									
60	2	158552-51571	GASKET	3									
61	2	158552-51571	GASKET	1									
62	2	158557-51570	PLUG	1									
63	2	158601-51570	PLUG	1									
64	2	158552-51580	LIFTER	1									
65	2	119802-51590	TIMER SET	1									
66	3	119802-51600	TIMER ASSY	1									
69	3	158553-51670	O-RING, 1011	1									
70	3	119802-51680	RING, BACK UP	1									
71	3	119802-51690	O-RING	1									
72	3	24356-010200	O-RING, 4D1020	1									
73	3	24372-000150	RING, BACK UP T2P15	1									
74	2	158552-51600	GASKET	1									
75	2	158553-51630	SPRING, TIMER	1									
77	2	158553-51640	ELEMENT	1									
78	2	158553-51660	O-RING, P14	1									
79	2	158553-51680	GASKET	1									
99	2	158601-51770	PISTON	1									
100	2	158552-51781	SPRING	1									
101	2	158601-51790	PLUG	1									
103	2	158553-51930	PLUG, M12	1									
104	2	22190-120002	WASHER, SEAL 12	1									
105	2	22190-180002	WASHER, SEAL 18	1									
106	2	158553-51770	BOLT	4									
109	2	158552-52310	O-RING	1									
110	2	158552-52400	O-RING, 4E S42	1									
111	2	22190-120002	WASHER, SEAL 12	2									
112	2	22190-180002	WASHER, SEAL 18	2									
113	2	22217-140000	WASHER, SPRING 14	1									
114	2	22312-050140	PIN, PARALLEL M5X14	2									
115	2	22351-050010	PIN, SPRING 5.0X10	2									
117	2	24311-000070	O-RING, 1AP7.0	1									
118	2	24356-010180	O-RING, 4D1018	1									
119	2	24356-010200	O-RING, 4D1020	1									
120	2	26106-060102	BOLT, M6X 10 PLATED	1									
122	2	26450-080452	BOLT, M8X 45	4									
123	2	26776-140002	NUT, LOCK M14	1									
125	2	158552-52100	PUMP ASSY, FUEL FEED	1									

N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Remarks
(1) GOVERNOR ASSY(FIG.13) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

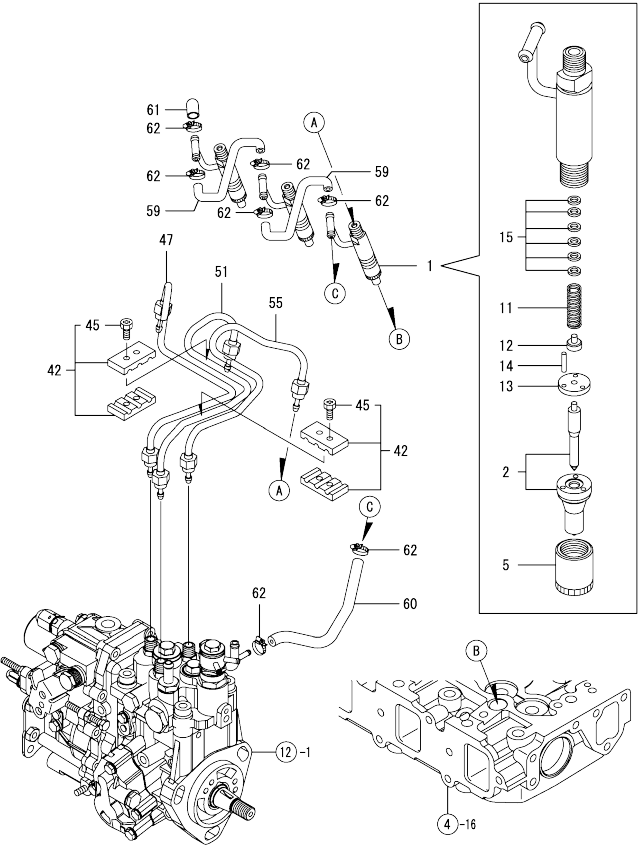


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
126	3	158552-52500	O-RING	1							
127	2	119934-59910	JOINT, PIPE	1							
128	2	22190-120002	WASHER, SEAL 12	1							
130	1	119802-51250	RETAINER, PUMP	1							
131	1	26106-080162	BOLT, M8X 16 PLATED	1							
132	1	26106-080202	BOLT, M8X 20 PLATED	1							

Remarks
(1) GOVERNOR ASSY(FIG.13) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

N:Old ^{YES}/_{NO} New. Q:Old ^{NO}/_{YES} New. R:Old ^{YES}/_{NO} New. S:Old ^{NO}/_{YES} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.14. FUEL INJECTION VALVE

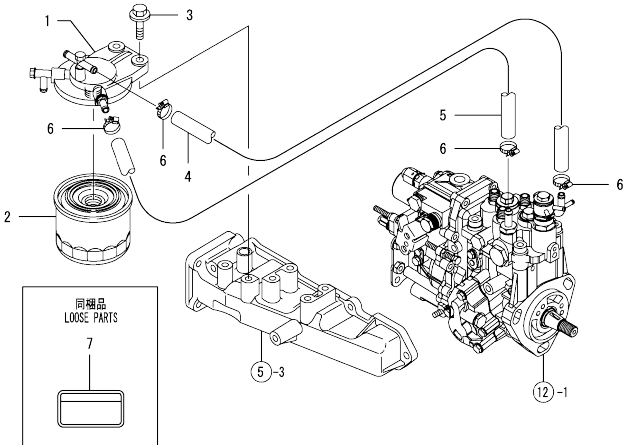


(A)=3TNV88-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729283-53100	VALVE ASSY,INJECTION	3							
2	2	129283-53000	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							
59	1	129270-59550	PIPE, FUEL	2							
60	1	119802-59570	PIPE, FUEL	1							
61	1	129270-59580	CAP	1							
62	1	23000-013000	CLAMP, 13	7							

Fig.15. FUEL LINE

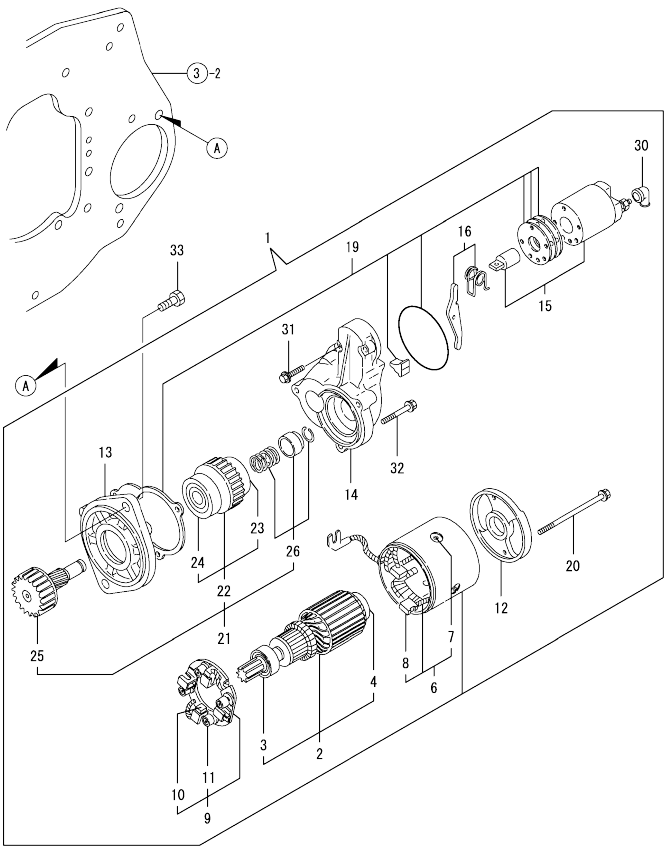


(A)=3TNV88-BGKM
(B)=
(C)=

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

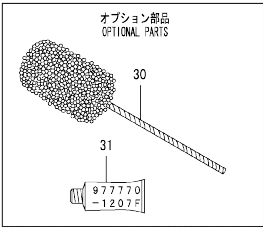
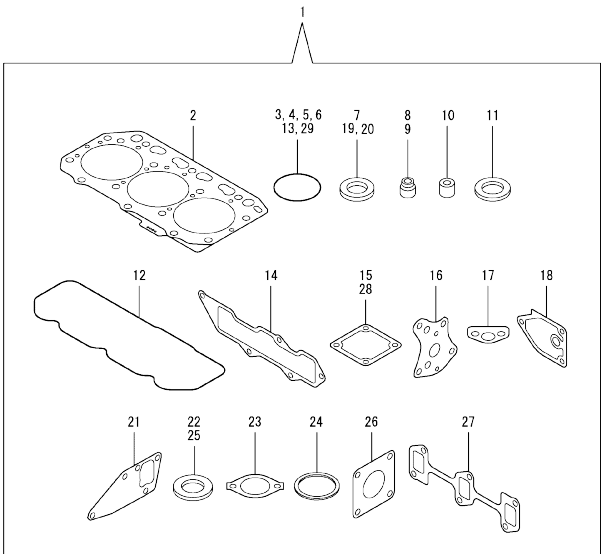
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	119802-55810	FILTER,FO	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129283-59100	PIPE, FUEL	1							
5	1	119802-59110	PIPE, FUEL	1							
6	1	23000-016000	CLAMP, 16	4							
7	1	114110-07760	LABEL, FUEL CAUTION	1							

0CW10-M47300 3TNV88-BGKM
Fig.16. STARTING MOTOR



				0CW10-M47300 Fig.16					
				(A)=3TNV88-BGKM	(D)=				
				(B)=	(E)=				
				(C)=	(F)=				
				Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	171008-77010	STARTER, S114-483	1					
2	2	171008-77400	ARMATURE ASSY	1					
3	3	X2114255110	BEARING, BALL	1					
4	3	X2130350900	BEARING, BALL	1					
6	2	171008-77440	COIL ASSY, FIELD	1					
7	3	171008-77450	SCREW	4					
8	3	171008-77460	BRUSH (+)	2					
9	2	171008-77470	HOLDER ASSY, BRUSH	1					
10	3	171008-77480	BRUSH (-)	2					
11	3	171008-77490	SPRING, BRUSH	4					
12	2	171008-77500	COVER, REAR	1					
13	2	171008-77510	CASE, GEAR	1					
14	2	171008-77520	HOUSING, CENTER	1					
15	2	171008-77531	SWITCH ASSY,MAGNETIC	1					
16	2	171008-77540	LEVER SET	1					
19	2	171008-77571	COVER KIT, DUST	1					
20	2	171008-77640	BOLT, THROUGH	2					
21	2	171008-77650	PINION ASSY	1					
22	3	X2114555500	CLUTCH ASSY	1					
23	4	X2114955020	BEARING, BALL	1					
24	4	X2240410100	BEARING, BALL	1					
25	3	171008-77660	SHAFT	1					
26	3	171008-77670	STOPPER SET	1					
30	2	171008-77750	COVER	1					
31	2	26106-060322	BOLT, M6X 32 PLATED	2					
32	2	26106-060402	BOLT, M6X 40 PLATED	3					
33	1	26116-120252	BOLT, M12X 25 PLATED	2					

Fig.17. GASKET SET



Remarks
(1) OPTIONAL PART.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-92880	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	129150-32020	GASKET, PUMP	1							
17	2	129150-35042	GASKET	1							
18	2	129150-35111	GASKET	1							
19	2	22190-080002	WASHER, SEAL 6	2							
20	2	22190-100002	WASHER, SEAL 10	2							
21	2	129486-42050	GASKET, WATER PUMP	1							
22	2	23414-080000	GASKET, 8X1.0	1							
23	2	129795-49551	GASKET	1							
24	2	129470-49810	GASKET, THERMOSTAT	1							
25	2	124465-44950	GASKET, 16	1							
26	2	129472-18090	GASKET	1							
27	2	129150-13110	GASKET	1							
28	2	120445-44640	GASKET	1							
29	2	24321-000750	O-RING, 1AG75.0	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.
104214-42780	10	24
104407-21600	10	1
114110-07760	15	7
114250-39450	8	30
114250-53080	14	5
114250-53120	14	11
114250-53130	14	12
114250-53140	14	13
114250-53210	14	14
119609-32040	2	9
	17	3
119620-49290	9	43
	11	8
119625-11880	4	33
	17	11
119640-01640	3	7
119653-77950	13	104
119660-61901	13	61
119802-01561	2	5
119802-03110	4	44
119802-03121	4	45
119802-03130	4	46
119802-03141	4	47
119802-11260	4	7
119802-11270	4	8
119802-11280	4	9
119802-11870	4	32
	17	10
119802-25071	6	13
119802-25101	6	10
119802-25901	6	16
119802-35100	8	24
119802-35110	8	25
119802-39450	8	32
119802-51090	12	13
119802-51250	12	130
119802-51560	12	59
119802-51590	12	65
119802-51600	12	66
119802-51680	12	70
119802-51690	12	71
119802-55810	15	2
119802-59110	15	5
119802-59570	14	60
119802-77340	9	58
119803-01520	2	4
119803-21200	7	4
119803-25050	6	9
119803-53400	14	15
119803-77830	4	57

Parts No.	Fig. No.	Ref. No.
119807-61420	13	24
119934-01800	2	3
119934-59910	12	127
119940-77270	9	57
120130-11860	4	30
120270-54410	4	35
120445-44640	11	21
	17	28
121023-01551	2	19
121111-21501	7	8
121400-11340	4	26
	17	8
121450-42450	9	54
121520-34810	8	17
121550-23200	7	27
121575-42021	10	6
121575-42120	10	12
121575-42150	10	13
121850-21680	7	14
121850-51960	2	10
	17	4
124060-01050	1	11
124070-42400	10	16
124070-42420	10	17
124160-01751	2	6
	4	40
124160-01910	1	12
		13
124160-11360	4	52
124160-39140	8	31
124160-49480	11	12
124223-42040	10	7
124223-42070	10	8
124223-42080	10	9
124223-42092	10	10
124223-42110	10	11
124240-01871	2	7
124460-11340	4	27
	17	9
124460-77680	10	33
	11	25
124465-44950	9	55
	17	25
124550-21600	7	11
124722-59050	9	49
		52
127610-91350	9	56
129001-01250	1	4
129001-01340	1	28
	17	2

Parts No.	Fig. No.	Ref. No.
129001-02931	1	29
129001-12110	5	4
	17	14
129001-32001	8	1
129004-03010	4	42
129004-03080	5	1
129004-11241	4	4
129004-11251	4	5
129004-11310	4	49
	17	12
129004-11350	4	41
129004-11650	4	11
129004-11900	4	34
129004-12101	5	3
129004-14580	6	3
129004-55612	15	1
129004-59811	14	47
129004-59821	14	51
129004-59831	14	55
129005-11100	4	22
129005-22500	7	18
129005-22950	7	35
129005-59830	8	33
129008-11700	4	16
129008-21000	7	1
129008-22080	7	16
129008-22900	7	33
129008-51390	12	41
129008-77800	4	55
129008-77820	4	56
129054-42320	9	10
129080-49010	10	26
129100-01580	3	1
	7	13
	7	2
129100-01640	3	14
129100-01730	3	5
129100-11112	4	23
129100-23910	7	30
129100-35140	8	26
129150-01200	1	27
129150-02020	1	6
129150-02450	6	4
129150-02871	1	32
129150-02931	1	24
129150-02941	1	35
129150-03070	4	43
129150-11230	4	12
129150-11280	4	10
129150-11370	4	15

Parts No.	Fig. No.	Ref. No.
129150-11750	4	14
129150-11810	4	31
129150-13110	11	4
	17	27
129150-14101	6	6
129150-14200	6	1
129150-14400	6	2
129150-23601	7	28
129150-23611	7	31
129150-25301	6	15
129150-32020	8	14
	17	16
129150-35042	8	18
	17	17
129150-35091	8	19
129150-35111	8	27
	17	18
129150-35170	8	28
129150-42059	9	2
129150-42301	9	8
129150-59120	14	42
129150-59131	14	45
129150-77511	5	10
	17	15
129155-51280	13	6
129155-61460	13	26
129156-44760	9	18
129170-44110	11	17
129170-49260	9	31
129171-44600	11	20
129175-01770	3	6
129175-21650	7	12
129176-01601	3	2
129176-44000	11	6
129176-44900	11	5
129189-21570	7	9
129202-22300	7	22
129246-61061	13	89
129246-61441	13	25
129247-42000	9	1
129255-61410	13	23
129263-42120	9	4
129263-49610	9	47
129263-49620	9	50
129270-59550	14	59
129270-59580	14	61
129283-42150	10	3
129283-42500	10	2
129283-53000	14	2
129283-59100	15	4

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