

0CV10-M93300EN

PREFACE

- 1.This Parts Catalog carries all parts incorporated in YANMAR Model 3TNV88-MWA engine manufactured since April, 2004.
- 2.Each illustration corresponds to the parts list on the following page.
- 3.When ordering parts,clearly write down the engine model and serial number,as well as the name and number of each part in your order sheet. This will help insure reliable delivery of the parts you have ordered.

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 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 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.

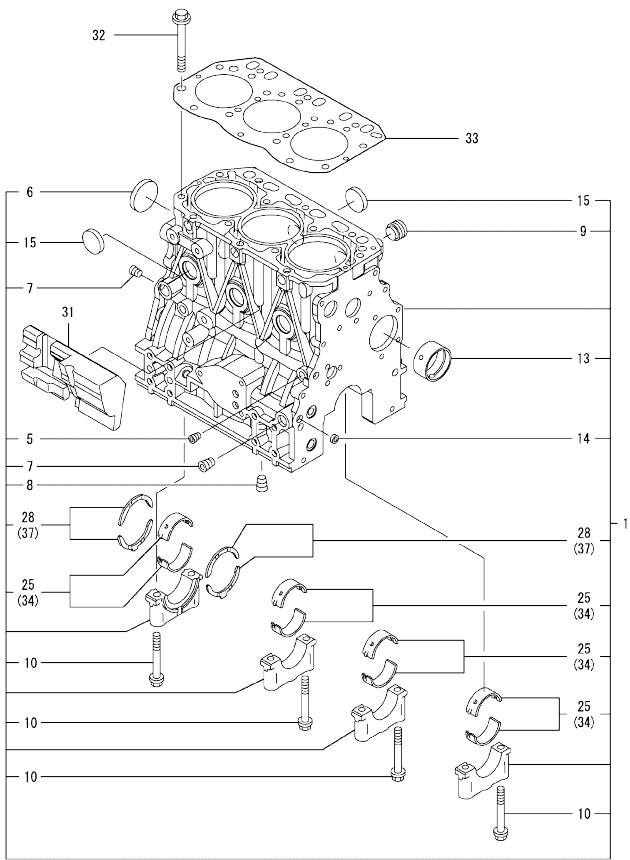
Contents

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

Fig. No.	Fig. Name
----------	-----------

0CV10-M93300

Fig.1. CYLINDER BLOCK

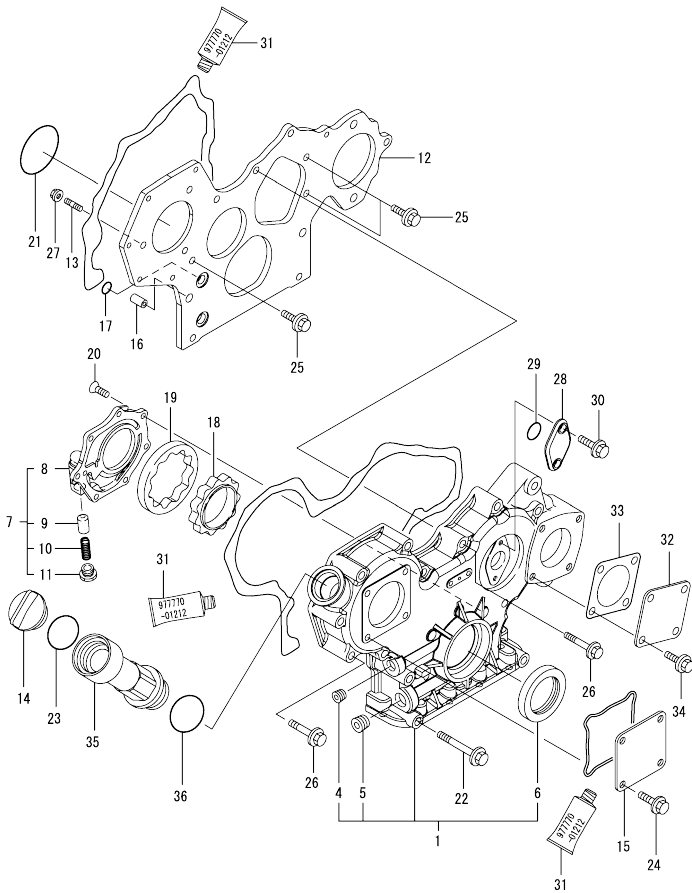


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
5	2	124060-01050	PLUG, PT1/8	1							
6	2	129001-01250	PLUG, 50	1							
7	2	124160-01910	PLUG, PT1/4	2							
8	2	124160-01910	PLUG, PT1/4	1							
9	2	171051-01921	PLUG, NPTF1	1							
10	2	129150-02020	BOLT, METAL CAP	8							
13	2	129795-02411	BUSH, CAMSHAFT	1							
14	2	27241-120000	PLUG, 12	2							
15	2	27241-300000	PLUG 30	6							
25	2	129001-02930	BEARING, MAIN	4							3
28	2	129150-02930	BEARING, THRUST	2							
31	1	129004-01190	SPACER	1							
32	1	129150-01200	BOLT, HEAD	14							
33	1	129001-01340	GASKET, HEAD	1							
34	1	129150-02870	BEARING, 0.25 US	4							1
37	1	129150-02940	BEARING, THRUST 0.25	1							2

OCV10-M93300

Fig.2. GEAR HOUSING



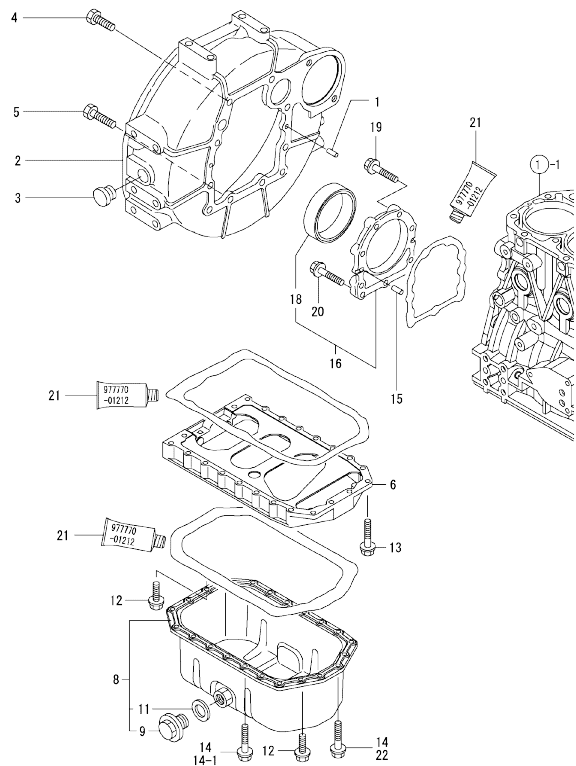
Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01500	CASE ASSY, GEAR	1							
4	2	23876-030000	PLUG, R03	1							
5	2	23876-040000	PLUG, R04	1							
6	2	129795-01800	SEAL, OIL	1							
7	1	119802-32100	COVER ASSY	1							
8	2	119802-32070	COVER	1							
9	2	129900-32130	VALVE, RELIEF	1							
10	2	129418-32320	SPRING	1							
11	2	129001-32330	PLUG	1							
12	1	129005-01520	FLANGE, GEAR CASE	1							
13	1	119802-01560	STUD, M8X25	3							
14	1	124160-01751	COVER, FILLER	1							
15	1	124240-01871	COVER	1							
16	1	129795-01950	PIPE, KNOCK L=18	2							
17	1	119609-32040	O-RING, P16	4							
18	1	119802-32111	ROTOR, INNER	1							
19	1	119802-32120	ROTOR, OUTER	1							
20	1	119802-32130	SCREW, M6X16	7							
21	1	121850-51960	O-RING	1							
22	1	129001-91841	BOLT, M8X85	3							
23	1	24311-000320	O-RING, 1AP32.0	1							
24	1	26106-080162	BOLT, M8X 16 PLATED	4							
25	1	26106-080162	BOLT, M8X 16 PLATED	3							
26	1	26106-080552	BOLT, M8X 55 PLATED	11							
27	1	26306-080002	NUT, M8	3							
28	1	121023-01550	COVER	1							
29	1	24341-000240	O-RING, 1AS24.0	1							
30	1	26106-060162	BOLT, M6X 16 PLATED	2							
31	1	977770-01212	GASKET, LIQUID	1							1
32	1	124240-01871	COVER	1							
33	1	124240-01883	GASKET	1							
34	1	26106-080122	BOLT, M8X 12 PLATED	4							
35	1	121027-11743	PIPE	1							
36	1	24321-000350	O-RING, 1AG35.0	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

OCV10-M93300

Fig.3. FLYWHEEL HOUSING & OIL SUMP



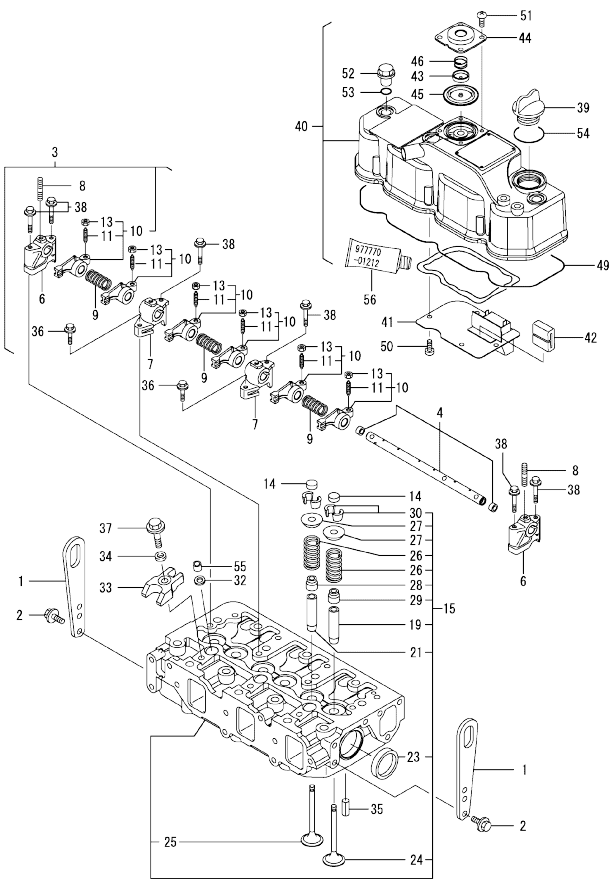
Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL SUMP	1							
8	1	129100-01760	SUMP ASSY, OIL	1							
9	2	119640-01640	PLUG, DRAIN M22	1							
11	2	22190-220002	WASHER, SEAL 22	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	4							
13	1	26106-080252	BOLT, M8X 25 PLATED	2							
14	1	26106-080452	BOLT, M8X 45 PLATED	20							
14-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K
(A=FROM 1ST)											
15	1	129100-01580	PIN, M8X16	2							
16	1	129100-01640	CASE ASSY, OIL SEAL	1							
18	2	129795-01780	SEAL, OIL	1							
19	1	129486-01670	BOLT, M8X30	6							
20	1	26106-080352	BOLT, M8X 35 PLATED	3							
21	1	977770-01212	GASKET, LIQUID	1							1
22	1	26106-080502	BOLT, M8X 50 PLATED	4							W
(A=FROM 1ST)											

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
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

OCV10-M93300

Fig.4. CYLINDER HEAD & BONNET

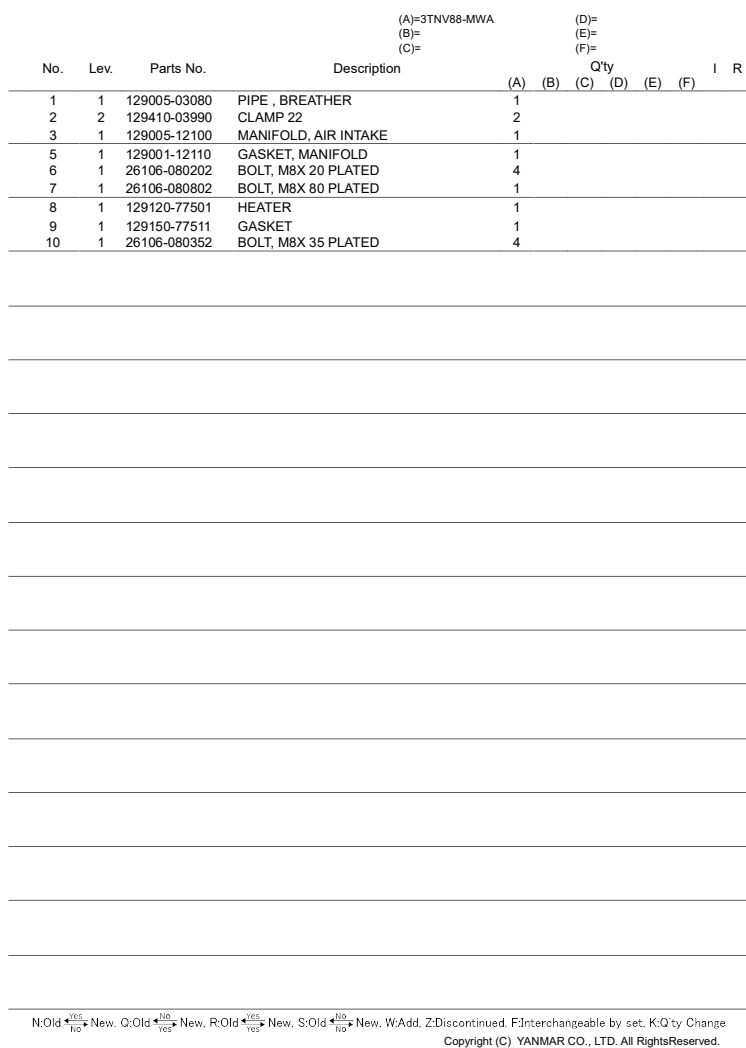


Remarks
(1) REPAIR PART.
(2) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER	2							
2	1	26106-080142	BOLT, M8X 14 PLATED	4							
3	1	129004-11241	SHAFT ASSY, ROCKER	1							
4	2	129004-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	129004-11650	ARM, ROCKER	6							
11	3	129150-11230	SCREW, VALVE ADJUST	6							
13	3	129150-11750	NUT, M8	6							
14	1	129150-11370	CAP, VALVE	6							
15	1	129004-11700	HEAD ASSY, CYLINDER	1							
19	2	120130-11860	GUIDE, VALVE	3							1
21	2	129150-11810	GUIDE, VALVE	3							1
23	2	27241-400000	PLUG, 40	2							
24	2	129004-11100	VALVE, INTAKE	3							
25	2	129100-11110	VALVE, EXHAUST	3							
26	2	129795-11120	SPRING, VALVE	6							
27	2	129795-11180	RETAINER, SPRING	6							
28	2	121400-11340	SEAL, VALVE STEM	3							
29	2	124460-11340	SEAL, VALVE STEM	3							
30	2	27310-080001	COTTER, 8	6							
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	119802-03120	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03140	SPRING, DIAPHRAGM	1							
49	2	129004-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW, 5X10	4							
51	2	22857-500100	SCREW, 5X10	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING, 1AP12.0	3							
54	1	24311-000320	O-RING, 1AP32.0	1							
55	1	119802-11870	PROTECTOR, NOZZLE	3							
56	1	977770-01212	GASKET, LIQUID	1							2

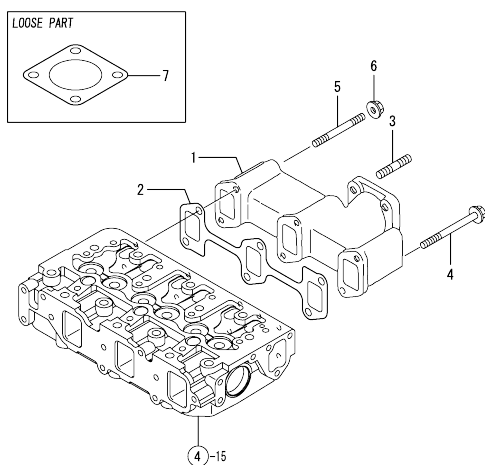
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.5. SUCTION MANIFOLD



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

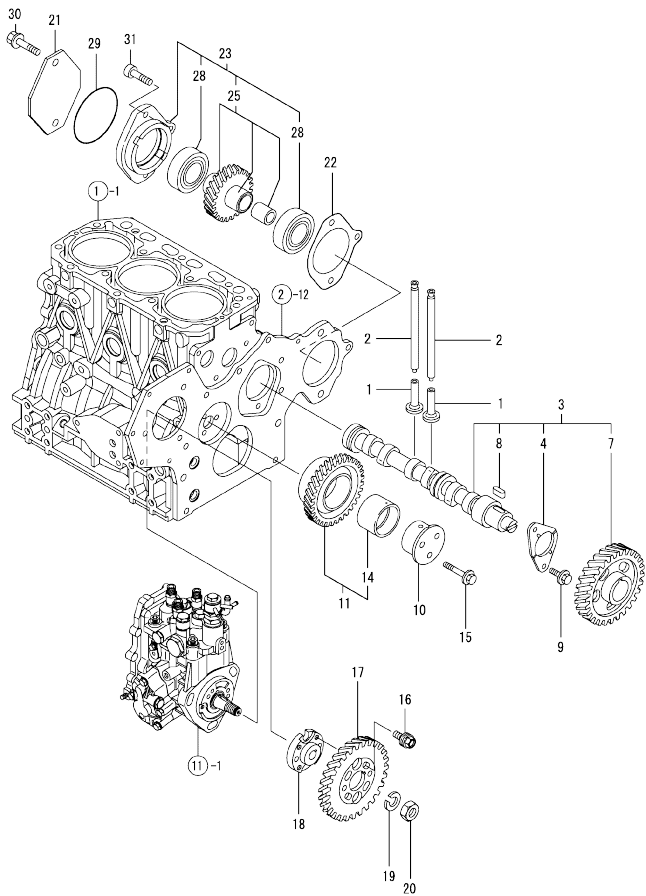
Copyright (C) YANMAR CO., LTD. All Rights Reserved.



				(A)=3TNV88-MWA	(D)=				I	R
				(B)=	(E)=					
				(C)=	(F)=					
No.	Lev.	Parts No.	Description	Q'ty						
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	129100-13110	MANIFOLD, EXHAUST	1						
2	1	129150-13110	GASKET	1						
3	1	119131-18320	STUD, M8X22	4						
4	1	123900-13630	BOLT, M8X80	4						
5	1	123900-13610	STUD, M8X80	2						
6	1	26306-080002	NUT, M8	2						
7	1	124701-11911	GASKET, SILENCER	1						

0CV10-M93300

Fig.7. CAMSHAFT & DRIVING GEAR



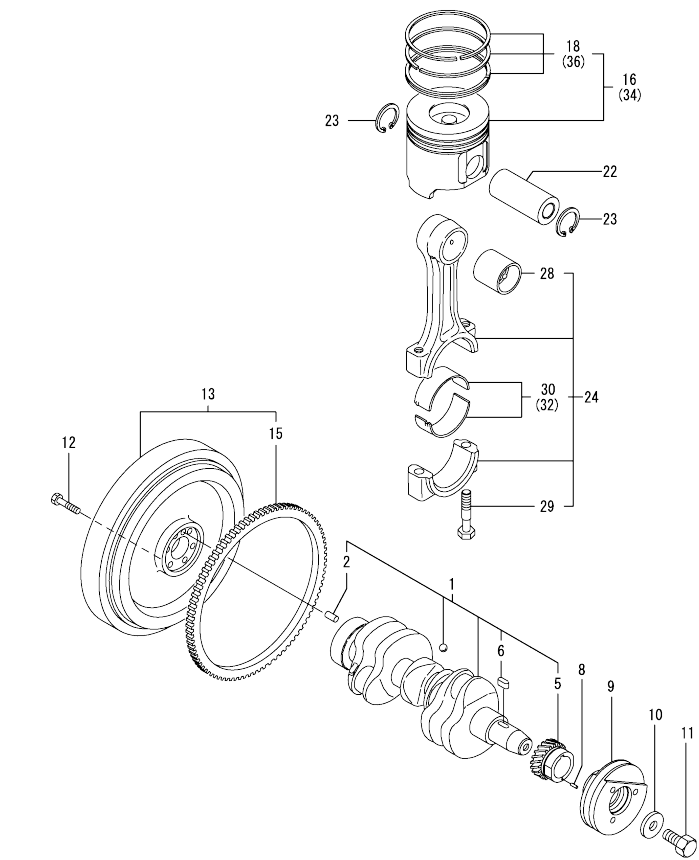
Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY, 7X 14	1							
9	1	26106-080142	BOLT, M8X 14 PLATED	2							
10	1	119802-25051	SHAFT, IDLE	1							
11	1	119802-25100	GEAR ASSY, IDLE	1							
14	2	119802-25070	BUSH, IDLE GEAR	1							1
15	1	26106-080402	BOLT, M8X 40 PLATED	3							
16	1	129150-25301	BOLT	4							
17	1	119802-25901	GEAR, PUMP	1							
18	1	158552-51151	FLANGE	1							
19	1	22217-140000	WASHER, SPRING 14	1							
20	1	26776-140002	NUT, LOCK M14	1							
21	1	121023-26070	COVER	1							
22	1	171353-26081	GASKET	1							
23	1	129484-26200	DRIVE ASSY, PUMP	1							
25	2	129484-26210	GEAR ASSY	1							
28	2	24105-060064	BEARING, BALL 6006Z	2							
29	1	24321-000850	O-RING, 1AG85.0	1							
30	1	26106-100452	BOLT, M10X 45 PLATED	2							
31	1	26450-080282	BOLT, M8X 28	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

OCV10-M93300

Fig.8. CRANKSHAFT & PISTON

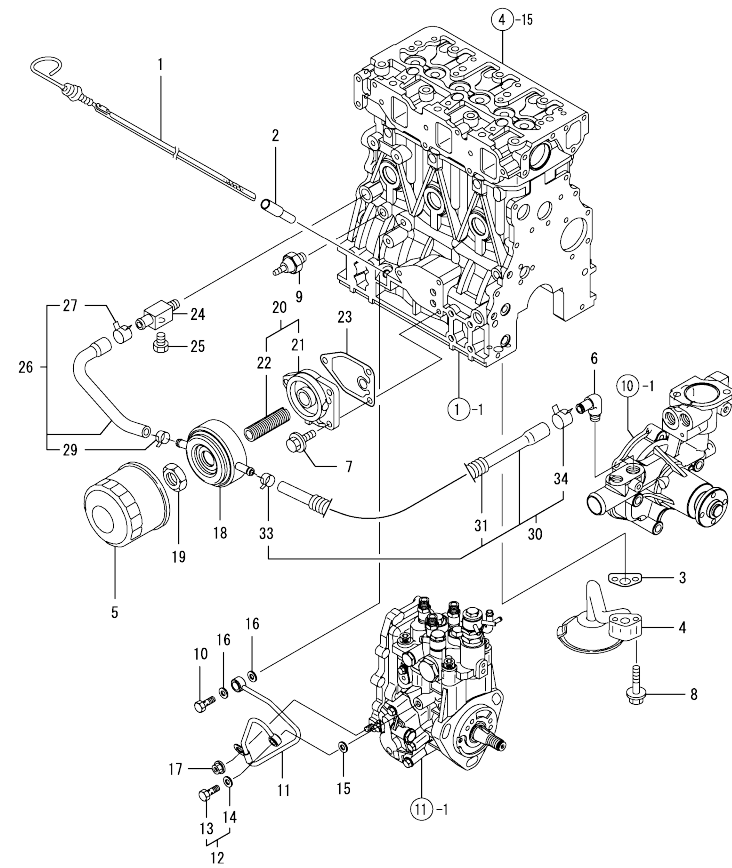


Remarks
(1) REPAIR PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) OVER-SIZE(O.S=0.25)PART.

				(A)=3TNV88-MWA (B)= (C)=							(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty						I	R
1	1	129004-21001	CRANKSHAFT ASSY	1													
2	2	129100-01580	PIN, M&X16	1													
5	2	119802-21201	GEAR, CRANKSHAFT	1													
6	2	22512-070140	KEY, 7X 14	1													
8	1	22351-030010	PIN, SPRING 3.0X10	1													
9	1	129005-21650	V-PULLEY, 120	1													
10	1	129795-21661	WASHER	1													
11	1	121850-21680	BOLT	1													
12	1	121111-21501	BOLT, FLYWHEEL	6													
13	1	171340-21580	FLYWHEEL ASSY	1													
15	2	119865-21600	GEAR, RING	1													
16	1	129005-22080	PISTON ASSY	3													
18	2	129005-22500	RING SET, PISTON	3													
22	1	129202-22300	PIN, PISTON D26 L70	3													
23	1	22252-000260	RING, 26	6													
24	1	729402-23100	ROD ASSY, CONNECTING	3													
28	2	129100-23910	BEARING, PISTON PIN	3												1	
29	2	121550-23200	BOLT, CONNECTING ROD	6													
30	2	129150-23600	BEARING, CRANK PIN	3													
32	1	129150-23610	BEARING, 0.25 US	3												2	
34	1	129005-22900	PISTON ASSY, 0.25 OS	3												3	
36	2	129005-22950	RING SET, 0.25 OS	3													

0CV10-M93300

Fig.9. LUB.OIL SYSTEM



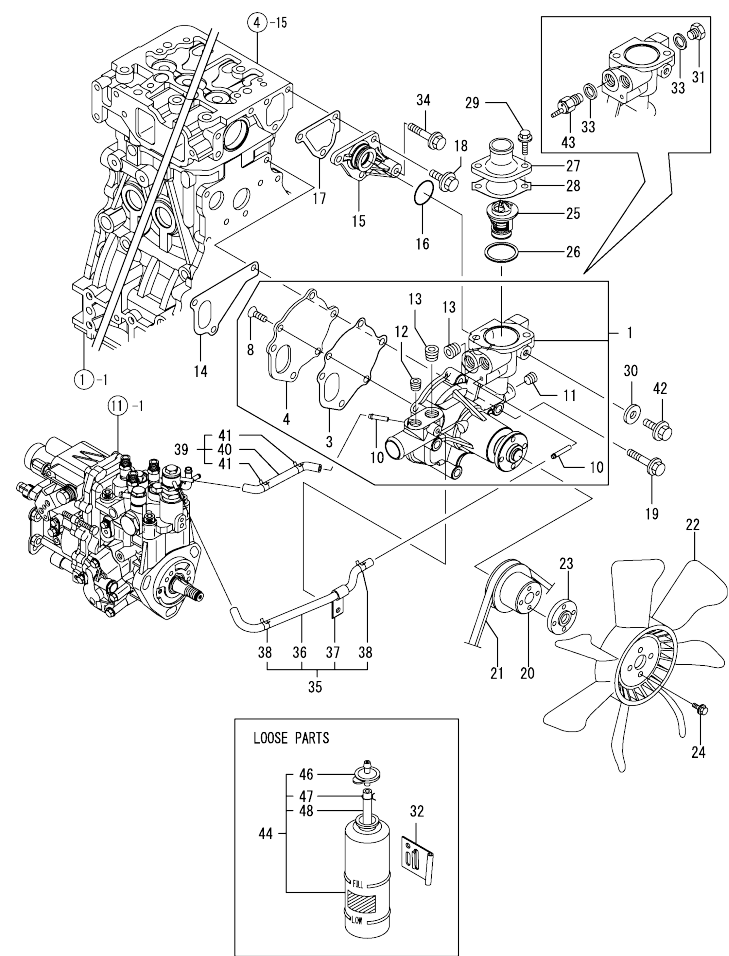
Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	129150-35041	GASKET	1							
4	1	129100-35301	PIPE ASSY, OIL INLET	1							
5	1	129150-35153	FILTER 80X80L	1							1
6	1	129103-49301	ELBOW, PT1/4	1							
7	1	26106-080202	BOLT, M8X 20 PLATED	3							
8	1	26106-080352	BOLT, M8X 35 PLATED	2							
9	1	114250-39450	SWITCH, 0.5KG	1							
10	1	124160-39140	BOLT, PIPE JOINT M10	1							
11	1	119802-39450	PIPE ASSY, OIL	1							
12	1	129005-59830	BOLT ASSY, JOINT M8	1							
13	2	23857-030000	BOLT, JOINT 3	1							
14	2	22190-080002	WASHER, SEAL 6	1							
15	1	22190-080002	WASHER, SEAL 6	1							
16	1	22190-100002	WASHER, SEAL 10	2							
17	1	26366-060002	NUT, M6	1							
18	1	129508-33010	COOLER ASSY, OIL	1							
19	1	129417-33110	NUT	1							
20	1	129006-35100	BRACKET ASSY, FILTER	1							
21	2	119802-35110	BRACKET, FILTER	1							
22	2	129417-35150	STUD, L=67	1							
23	1	129150-35111	GASKET	1							
24	1	129006-44480	JOINT	1							
25	1	171056-49120	PLUG, DRAIN	1							
26	1	129508-49030	PIPE ASSY, WATER	1							
27	2	171008-03990	CLIP, HOSE 18.5	1							
29	2	23080-015000	CLAMP, 15	1							
30	1	129006-49040	PIPE ASSY, WATER	1							
31	2	123951-03330	TUBE, CORRUGATED	1							
33	2	23080-015000	CLAMP, 15	1							
34	2	23080-018000	CLAMP, 18	1							

N:Old $\frac{NBS}{100}$ New, Q:Old $\frac{HQ}{100}$ New, R:Old $\frac{RBS}{100}$ New, S:Old $\frac{HS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

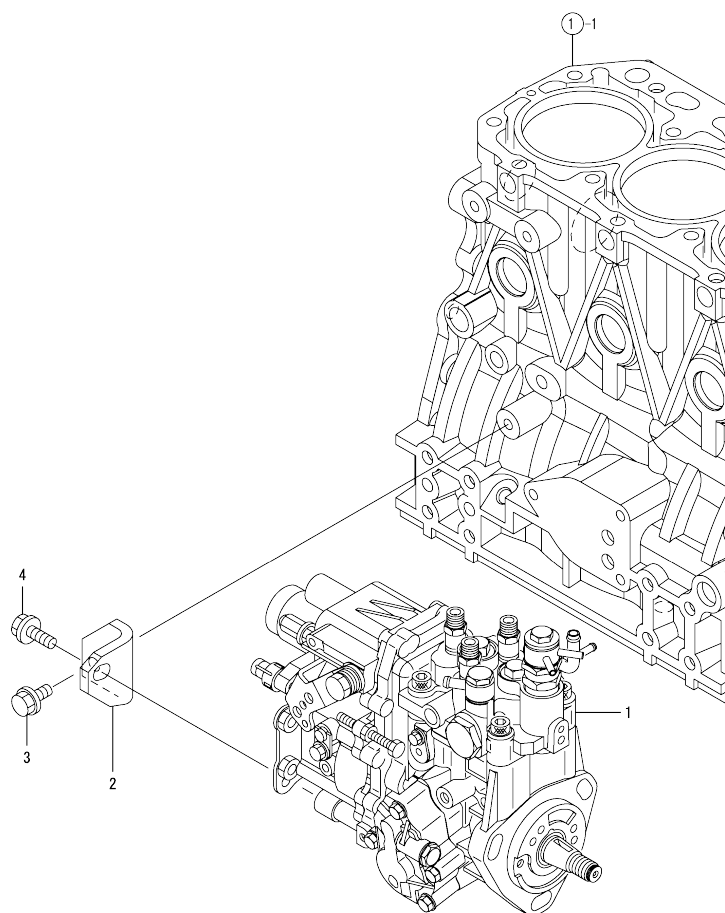
OCV10-M93300

Fig.10. COOLING WATER SYSTEM

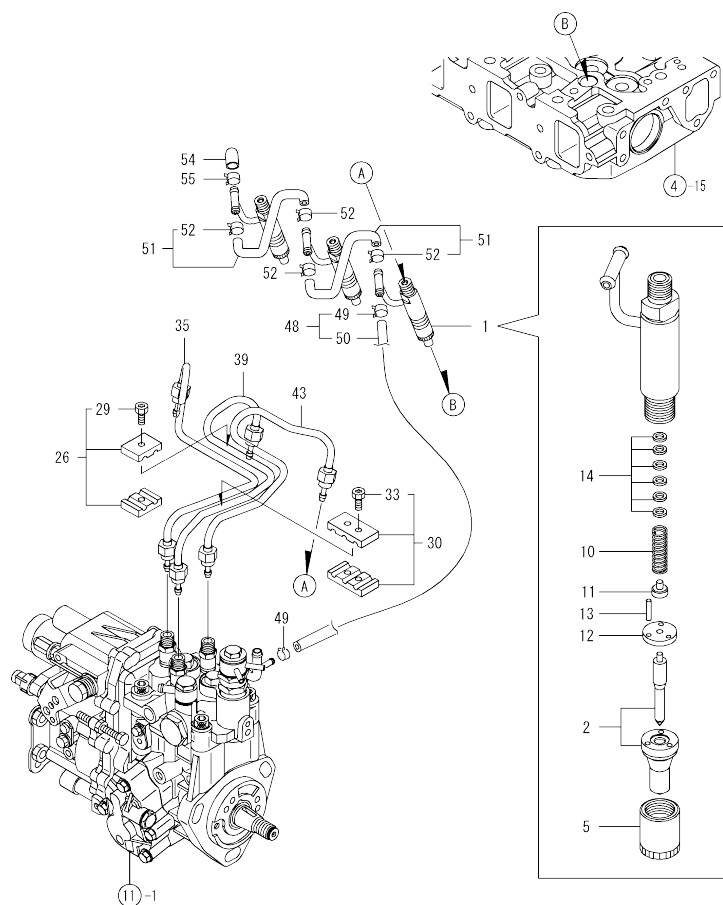


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE	1							
8	2	121850-42410	SCREW	3							
10	2	119802-49113	JOINT, PIPE	2							
11	2	23876-010000	PLUG, R01	1							
12	2	23875-020000	PLUG, R02	1							
13	2	129916-49740	PLUG, R03	2							
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET	1							
18	1	26106-080162	BOLT, M8X 16 PLATED	3							
19	1	26106-080602	BOLT, M8X 60 PLATED	3							
20	1	129556-42350	V-PULLEY, 96	1							
21	1	25132-003600	V-BELT, A36	1							
22	1	121267-44741	FAN, COOLING D=360	1							
23	1	124574-44761	SPACER, FAN	1							
24	1	26106-060202	BOLT, M6X 20 PLATED	4							
25	1	129155-49801	THERMOSTAT, 71	1							
26	1	129150-49811	GASKET, THERMOSTAT	1							
27	1	129350-49530	COVER, THERMOSTAT	1							
28	1	129795-49551	GASKET	1							
29	1	26106-080222	BOLT, M8X 22 PLATED	2							
30	1	23414-080000	GASKET, 8X1.0	1							
31	1	121450-42450	PLUG, M16	1							
32	1	121256-44600	BRACKET, SUB TANK	1							
33	1	124465-44950	GASKET, 16	2							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	129004-49610	PIPE ASSY, WATER	1							
36	2	129004-49711	PIPE ASSY, WATER	1							
37	2	119802-49730	RETAINER, PIPE	1							
38	2	124722-59050	CLIP, HOSE 9	2							
39	1	129004-49620	PIPE ASSY, WATER	1							
40	2	129004-49721	PIPE ASSY, WATER	1							
41	2	124722-59050	CLIP, HOSE 9	2							
42	1	26106-080122	BOLT, M8X 12 PLATED	1							
43	1	121250-44901	SWITCH, 110	1							
44	1	124450-44510	TANK ASSY, SUB	1							
46	2	124450-44530	CAP	1							
47	2	124450-44560	RETAINER	1							
48	2	23061-070230	PIPE, 7X 230	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All RightsReserved.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729425-51330	PUMP ASSY, INJECTION	1							
2	1	119802-51250	RETAINER, PUMP	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	1							
4	1	26106-080202	BOLT, M8X 20 PLATED	1							

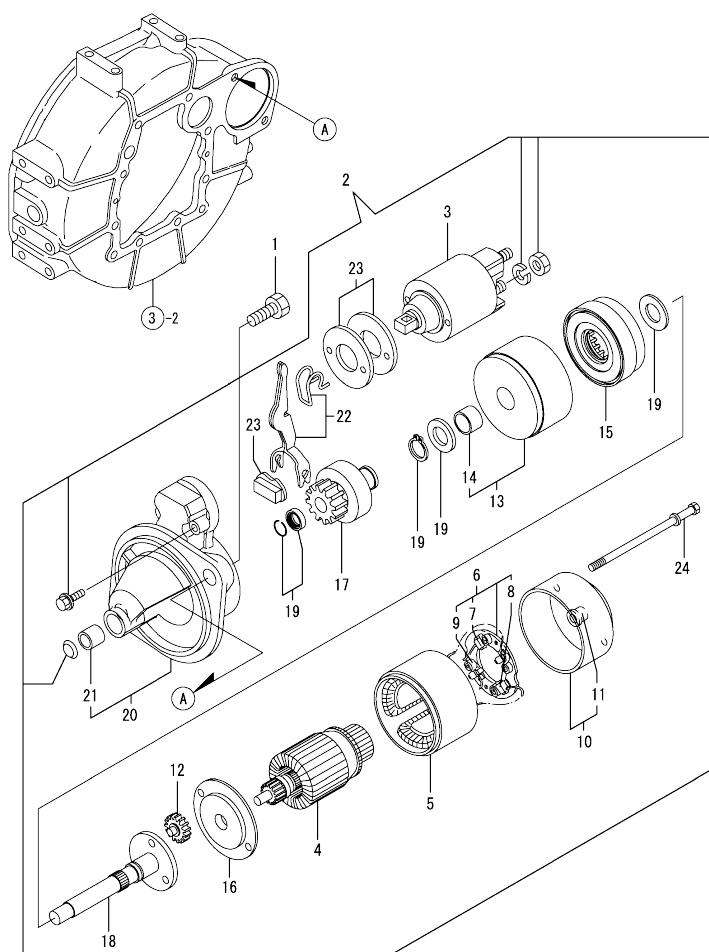


				(A)=3TNV88-MWA					(D)=				
				(B)=					(E)=				
				(C)=					(F)=				
No.	Lev.	Parts No.	Description	Q'ty								I	R
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	729004-53101	VALVE ASSY,INJECTION	3									
2	2	129004-53001	VALVE ASSY,INJECTION	3									
5	2	114250-53080	NUT, NOZZLE D16.95	3									
10	2	114250-53120	SPRING, NOZZLE	3									
11	2	114250-53130	SEAT, SPRING	3									
12	2	114250-53140	PLATE	3									
13	2	114250-53210	PIN	6									
14	2	114250-53400	SHIM SET	3									
26	1	119305-59120	RETAINER, PIPE	1									
29	2	129150-59131	BOLT, M4X14	1									
30	1	129150-59120	RETAINER, PIPE	1									
33	2	129150-59131	BOLT, M4X14	2									
35	1	129004-59810	PIPE ASSY, INJECTION	1									
39	1	129004-59820	PIPE ASSY, INJECTION	1									
43	1	129004-59830	PIPE ASSY, INJECTION	1									
48	1	119802-59550	PIPE ASSY, RETURN	1									
49	2	124722-59050	CLIP, HOSE 9	2									
50	2	119802-59560	PIPE, FUEL RETURN	1									
51	1	129486-59551	PIPE ASSY, RETURN	2									
52	2	124722-59050	CLIP, HOSE 9	4									
54	1	119593-59580	CAP	1									
55	1	124060-77680	CLIP, HOSE 10	1									

Fig.13. FUEL LINE



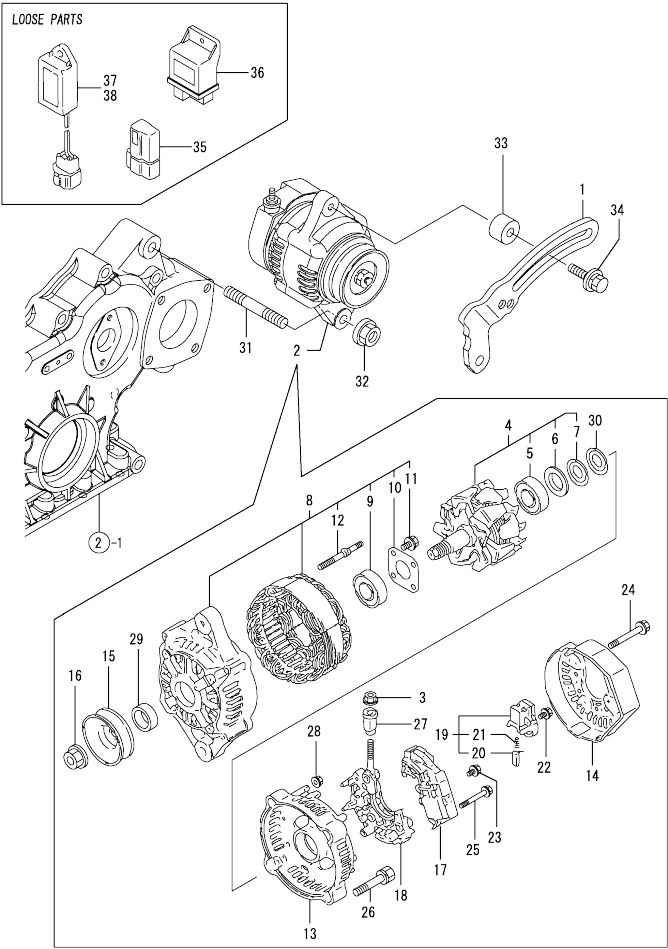
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change



				(A)=3TNV88-MWA (B)= (C)=	(D)= (E)= (F)=								
No.	Lev.	Parts No.	Description	Q'ty								I	R
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	26116-120252	BOLT, M12X 25 PLATED	2									
2	1	129242-77010	STARTER	1									
3	2	129698-77020	MAGNETIC SWITCH ASSY	1									
4	2	129242-77100	ARMATURE ASSY	1									
5	2	129242-77110	YOKE ASSY	1									
6	2	129242-77120	BRUSH HOLDER ASSY	1									
7	3	129242-77130	BRUSH(-)	2									
8	3	129242-77140	BRUSH(+) SET	1									
9	3	129242-77150	BRUSH SPRING	4									
10	2	129242-77160	REAR COVER ASSY	1									
11	3	129242-77170	REAR COVER METAL	1									
12	2	118400-77170	GEAR	3									
13	2	129242-77180	CENTER BRACKET(P)	1									
14	3	129698-77190	BRACKET	1									
15	2	129698-77200	GEAR, INTERNAL	1									
16	2	129242-77210	CENTER BRACKET(A)	1									
17	2	129698-77220	PINION ASSY	1									
18	2	129698-77230	SHAFT(PINION	1									
19	2	129698-77250	WASHER SET	1									
20	2	129242-77260	GEAR CASE ASSY	1									
21	3	X2114535200	METAL, STARTER	1									
22	2	129242-77270	SHIFT LEVER SET	1									
23	2	129242-77280	DUST COVER KIT	1									
24	2	124195-77770	THROUGH BOLT	2									

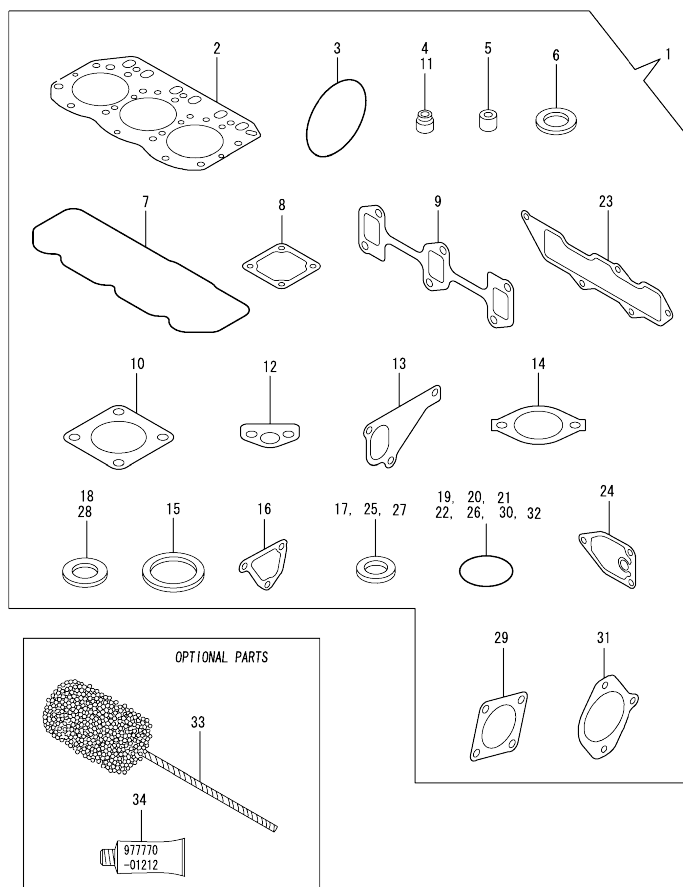
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.15. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129064-77330	ADJUSTER	1							
2	1	129423-77200	GENERATOR, 12V-40A	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	119620-79240	BALL BEARING	1							
6	3	119620-79250	COVER, BEARING	1							
7	3	119620-79360	WASHER, THRUST	1							
8	2	119620-77421	FRAME ASSY, DRIVE	1							
9	3	119620-79200	BALL BEARING	1							
10	3	119620-79210	PLATE	1							
11	3	119620-79220	SCREW	4							
12	3	119620-79230	BOLT, STUD	2							
13	2	119620-77440	FLAME ASSY, REAR	1							
14	2	129240-79300	COVER	1							
15	2	119620-77461	PULLEY	1							
16	2	119620-77471	NUT	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	119620-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	1							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW W/WASHER	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	INSULATION BUSH	1							
28	2	119620-79350	NUT	2							
29	2	119620-77490	COLLAR	1							
30	2	119620-79360	WASHER, THRUST	1							
31	1	129795-01900	STUD	1							
32	1	26306-100002	NUT, M10	1							
33	1	129067-77340	SPACER	1							
34	1	26014-080452	BOLT, M8X 45	1							
35	1	119643-66900	DIODE	1							
36	1	119802-77200	RELAY, SAFETY	1							
37	1	128300-77920	TIMER	1							
38	1	129211-77920	TIMER	1							

Fig.16. GASKET SET

Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729001-92750	GASKET SET	1							1
2	2	129001-01340	GASKET, HEAD	1							
3	2	121850-51960	O-RING	1							
4	2	124460-11340	SEAL, VALVE STEM	3							
5	2	119802-11870	PROTECTOR, NOZZLE	3							
6	2	119625-11880	SEAT, NOZZLE	3							
7	2	129004-11310	GASKET, BONNET	1							
8	2	129150-77511	GASKET	1							
9	2	129150-13110	GASKET	1							
10	2	124701-11911	GASKET, SILENCER	1							
11	2	121400-11340	SEAL, VALVE STEM	3							
12	2	129150-35041	GASKET	1							
13	2	129486-42021	GASKET, WATER PUMP	1							
14	2	129795-49551	GASKET	1							
15	2	129150-49811	GASKET, THERMOSTAT	1							
16	2	124395-49840	GASKET	1							
17	2	22190-080002	WASHER, SEAL 6	2							
18	2	124465-44950	GASKET, 16	2							
19	2	24311-000120	O-RING, 1AP12.0	3							
20	2	24311-000320	O-RING, 1AP32.0	2							
21	2	24341-000240	O-RING, 1AS24.0	1							
22	2	129486-42140	O-RING, G30	1							
23	2	129001-12110	GASKET, MANIFOLD	1							
24	2	129150-35111	GASKET	1							
25	2	22190-220002	WASHER, SEAL 22	1							
26	2	119609-32040	O-RING, P16	4							
27	2	22190-100002	WASHER, SEAL 10	2							
28	2	23414-080000	GASKET, 8X1.0	1							
29	2	124240-01883	GASKET	1							
30	2	24321-000350	O-RING, 1AG35.0	1							
31	2	171353-26081	GASKET	1							
32	2	24321-000850	O-RING, 1AG85.0	1							
33	1	129400-92430	HONE	1							1
34	1	977770-01212	GASKET, LIQUID	1							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

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59580	13	6
114250-39450	9	9
114250-53080	12	5
114250-53120	12	10
114250-53130	12	11
114250-53140	12	12
114250-53210	12	13
114250-53400	12	14
118400-77170	14	12
119131-18320	6	3
119225-52102	13	10
119305-59120	12	26
119593-59580	12	54
119609-32040	2	17
	16	26
119620-01750	3	3
119620-77380	15	4
119620-77421	15	8
119620-77440	15	13
119620-77461	15	15
119620-77471	15	16
119620-77480	15	20
119620-77490	15	29
119620-79200	15	9
119620-79210	15	10
119620-79220	15	11
119620-79230	15	12
119620-79240	15	5
119620-79250	15	6
119620-79260	15	18
119620-79270	15	19
119620-79280	15	21
119620-79290	15	22
119620-79300	15	23
119620-79310	15	24
119620-79320	15	25
119620-79330	15	26
119620-79340	15	27
119620-79350	15	28
119620-79360	15	7
	30	
119625-11880	4	32
	16	6
119640-01640	3	9
119643-66900	15	35
119802-01560	2	13
119802-03110	4	43
119802-03120	4	44
119802-03130	4	45
119802-03140	4	46

Parts No.	Fig. No.	Ref. No.
119802-11260	4	6
119802-11270	4	7
119802-11280	4	8
119802-11870	4	55
	16	5
119802-21201	8	5
119802-25051	7	10
119802-25070	7	14
119802-25100	7	11
119802-25901	7	17
119802-32070	2	8
119802-32100	2	7
119802-32111	2	18
119802-32120	2	19
119802-32130	2	20
119802-35110	9	21
119802-39450	9	11
119802-49113	10	10
119802-49730	10	37
119802-51250	11	2
119802-55700	13	11
119802-55710	13	12
119802-55800	13	2
119802-59550	12	48
119802-59560	12	50
119802-77200	15	36
119865-21600	8	15
120130-11860	4	19
120270-54410	4	34
121023-01550	2	28
121023-26070	7	21
121027-11743	2	35
121111-21501	8	12
121250-44901	10	43
121256-44600	10	32
121267-44741	10	22
121400-11340	4	28
	16	11
121450-42450	10	31
121520-34810	9	2
121550-23200	8	29
121850-21680	8	11
121850-42410	10	8
121850-51960	2	21
	16	3
123900-13610	6	5
123900-13630	6	4
123951-03330	9	31
124060-01050	1	5
124060-77680	12	55

Parts No.	Fig. No.	Ref. No.
124160-01751	2	14
	4	39
124160-01910	1	7
		8
124160-11360	4	52
124160-39140	9	10
124195-77770	14	24
124240-01871	2	15
		32
124240-01883	2	33
	16	29
124395-49840	10	17
	16	16
124450-44510	10	44
124450-44530	10	46
124450-44560	10	47
124460-11340	4	29
	16	4
124465-44950	10	33
	16	18
124574-44761	10	23
124701-11911	6	7
	16	10
124722-59050	10	38
		41
	12	49
		52
124766-59050	13	5
		8
128300-77920	15	37
129001-01250	1	6
129001-01340	1	33
	16	2
129001-02930	1	25
129001-12110	5	5
	16	23
129001-32330	2	11
129001-91841	2	22
129004-01190	1	31
129004-03010	4	41
129004-11100	4	24
129004-11241	4	3
129004-11251	4	4
129004-11310	4	49
	16	7
129004-11350	4	40
129004-11650	4	10
129004-11700	4	15
129004-11900	4	33
129004-21001	8	1

Parts No.	Fig. No.	Ref. No.
129004-34801	9	1
129004-42001	10	1
129004-42040	10	15
129004-49610	10	35
129004-49620	10	39
129004-49711	10	36
129004-49721	10	40
129004-53001	12	2
129004-55610	13	1
129004-59810	12	35
129004-59820	12	39
129004-59830	12	43
129005-01520	2	12
129005-03080	5	1
129005-12100	5	3
129005-21650	8	9
129005-22080	8	16
129005-22500	8	18
129005-22900	8	34
129005-22950	8	36
129005-59830	9	12
129006-35100	9	20
129006-44480	9	24
129006-49040	9	30
129064-77330	15	1
129067-77340	15	33
129100-01580	3	1
		15
	8	2
129100-01640	3	16
129100-01730	3	6
129100-01760	3	8
129100-11110	4	25
129100-13110	6	1
129100-23910	8	28
129100-35301	9	4
129100-42051	10	3
129100-42121	10	4
129100-55690	13	13
129103-49301	9	6
129120-77501	5	8
129129-14580	7	3
129150-01200	1	32
129150-02020	1	10
129150-02450	7	4
129150-02870	1	34
129150-02930	1	28
129150-02940	1	37
129150-03070	4	42
129150-11230	4	11

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129150-11280	4	9
129150-11370	4	14
129150-11750	4	13
129150-11810	4	21
129150-13110	6	2
	16	9
129150-14101	7	7
129150-14200	7	1
129150-14400	7	2
129150-23600	8	30
129150-23610	8	32
129150-25301	7	16
129150-35041	9	3
	16	12
129150-35111	9	23
	16	24
129150-35153	9	5
129150-49811	10	26
	16	15
129150-59120	12	30
129150-59131	12	29
	33	
129150-77511	5	9
	16	8
129155-49801	10	25
129202-22300	8	22
129210-59100	13	4
129210-59230	13	7
129211-77920	15	38
129240-79300	15	14
129242-77010	14	2
129242-77100	14	4
129242-77110	14	5
129242-77120	14	6
129242-77130	14	7
129242-77140	14	8
129242-77150	14	9
129242-77160	14	10
129242-77170	14	11
129242-77180	14	13
129242-77210	14	16
129242-77260	14	20
129242-77270	14	22
129242-77280	14	23
129350-49530	10	27
129400-92430	16	33
129410-03990	5	2
129417-33110	9	19
129417-35150	9	22
129418-32320	2	10

Parts No.	Fig. No.	Ref. No.
129423-77200	15	2
129423-77710	15	17
129484-26200	7	23
129484-26210	7	25
129486-01670	3	19
129486-42021	10	14
	16	13
129486-42140	10	16
	16	22
129486-59551	12	51
129508-33010	9	18
129508-49030	9	26
129555-59511	13	9
129556-42350	10	20
129612-01600	3	2
129698-77020	14	3
129698-77190	14	14
129698-77200	14	15
129698-77220	14	17
129698-77230	14	18
129698-77250	14	19
129795-01780	3	18
129795-01800	2	6
129795-01900	15	31
129795-01950	2	16
129795-02411	1	13
129795-11120	4	26
129795-11180	4	27
129795-21661	8	10
129795-49551	10	28
	16	14
129900-07900	4	1
129900-32130	2	9
129916-49740	10	13
158552-51151	7	18
171008-03990	9	27
171051-01921	1	9
171056-49120	9	25
171340-21580	8	13
171353-26081	7	22
	16	31
22190-080002	9	14
	15	
	16	17
22190-100002	9	16
	16	27
22190-220002	3	11
	16	25
22217-140000	7	19
22252-000260	8	23

Parts No.	Fig. No.	Ref. No.
22351-030010	8	8
22351-060012	4	35
22512-070140	7	8
	8	6
22857-500100	4	50
		51
23061-070230	10	48
23080-015000	9	29
		33
23080-018000	9	34
23414-080000	10	30
	16	28
23857-030000	9	13
23875-020000	10	12
23876-010000	10	11
23876-030000	2	4
23876-040000	2	5
24105-060064	7	28
24311-000120	4	53
	16	19
24311-000160	13	15
24311-000320	2	23
	4	54
	16	20
24321-000350	2	36
	16	30
24321-000650	13	14
24321-000850	7	29
	16	32
24341-000240	2	29
	16	21
25132-003600	10	21
26014-080452	15	34
26106-060162	2	30
26106-060202	10	24
26106-080122	2	34
	10	42
26106-080142	4	2
	7	9
26106-080162	2	24
		25
	3	12
	10	18
	11	3
26106-080202	5	6
	9	7
	11	4
26106-080222	10	29
26106-080252	3	13
	4	36

Parts No.	Fig. No.	Ref. No.
26106-080302	13	3
26106-080352	3	20
	4	37
	5	10
	9	8
26106-080402	7	15
26106-080452	3	14
		-1
	10	34
26106-080502	3	22
	4	38
26106-080552	2	26
26106-080602	10	19
26106-080802	5	7
26106-100452	7	30
26116-120252	14	1
26206-100252	3	4
26206-100302	3	5
26306-080002	2	27
	6	6
26306-100002	15	32
26366-060002	9	17
26450-080282	7	31
26776-140002	7	20
27241-120000	1	14
27241-300000	1	15
27241-400000	4	23
27310-080001	4	30
729001-92750	16	1
729004-53101	12	1
729005-01500	2	1
729005-01560	1	1
729245-51330	11	1
729402-23100	8	24
977770-01212	2	31
	3	21
	4	56
	16	34
X2114535200	14	21
X9490561001	15	3