

0CV10-M65500EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A - EHP engine manufactured since January, 1999.
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. 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 COMPEMSATOR 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.

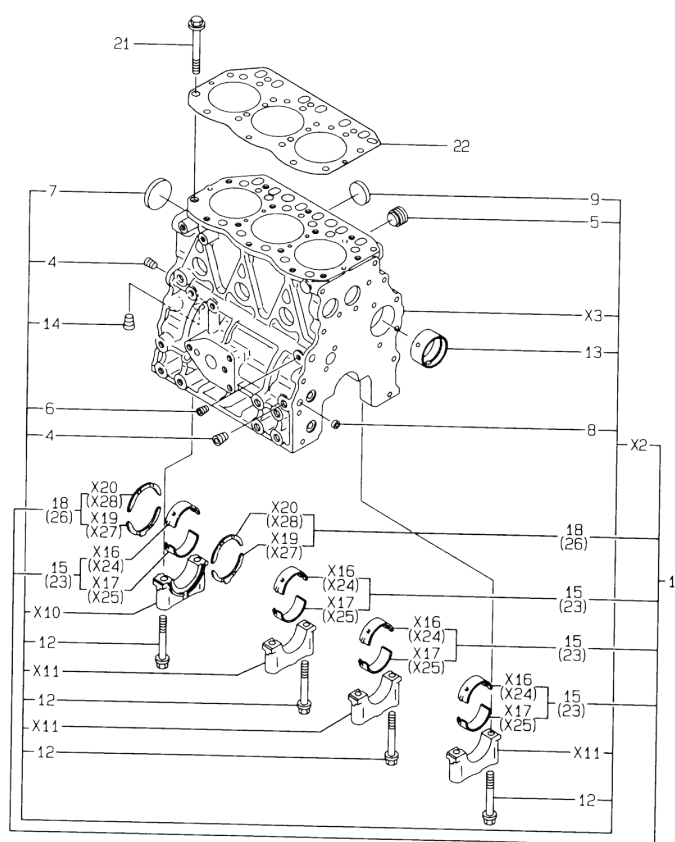
Contents

0CV10-M65500

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3TNE78A-EHP			
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2.	GEAR HOUSING		
3.	OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FUEL INJECTION VALVE		
14.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

Fig.1. CYLINDER BLOCK

1. CYLINDER BLOCK



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

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719822-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	2							
5	3	171051-01921	PLUG, NPT1	1							
6	3	23871-010000	PLUG, R01	1							
7	3	27231-500000	PLUG 50	1							
8	3	27241-120000	PLUG, 12	2							
9	3	27241-300000	PLUG 30	6							
12	3	119620-02020	BOLT, METAL CAP	8							
13	3	129795-02411	BUSH, CAMSHAFT	1							
14	3	124160-01910	PLUG, PT1/4	1							
15	2	119810-02800	BEARING, MAIN	4							
18	2	119810-02930	BEARING, THRUST	1							
21	1	119810-01200	BOLT, HEAD	14							
22	1	119818-01330	GASKET, HEAD	1							
23	1	119810-02870	BEARING, 0.25 US	4							
26	1	119810-02940	BEARING, THRUST 0.25	2							

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

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The components are numbered 1 through 27. The main body (1) is the central housing. A cover plate (4) is shown being attached to the top of the main body using screws (16) and a pin (17). A gasket (5) is positioned between the cover plate and the main body. A seal ring (6) is shown being fitted into a groove on the main body. A pin (11) and a screw (21) are used to secure the seal ring. A pin (12) and a screw (9) are used to secure the gasket. A pin (13) and a screw (10) are used to secure the seal ring. A pin (14) and a screw (15) are used to secure the seal ring. A pin (18) and a screw (19) are used to secure the seal ring. A pin (20) and a screw (22) are used to secure the seal ring. A pin (23) and a screw (24) are used to secure the seal ring. A pin (25) and a screw (26) are used to secure the seal ring. A pin (27) and a screw (28) are used to secure the seal ring.

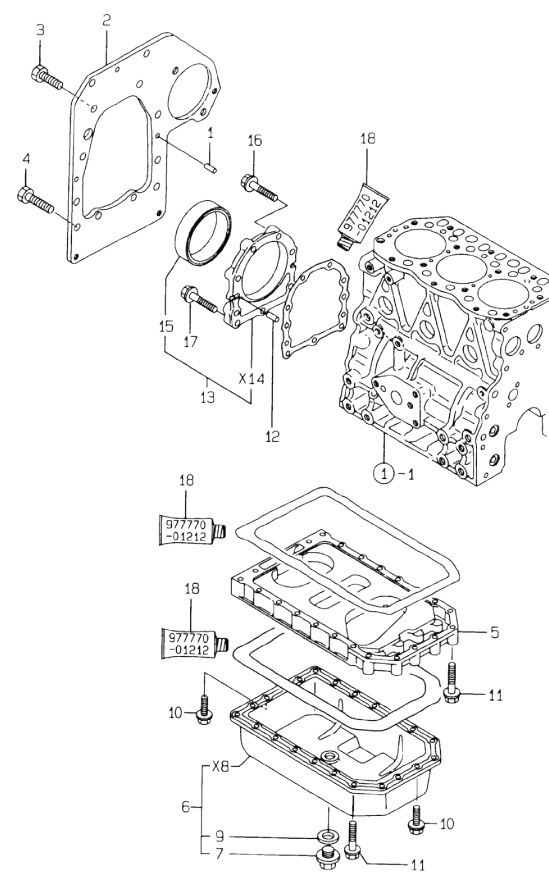
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719810-01500	CASE ASSY, GEAR	1							
3	2	129795-01800	SEAL, OIL	1							
4	1	129400-01520	FLANGE, GEAR CASE	1							
5	1	121450-01560	STUD, M8X22	3							
6	1	124160-01751	COVER, FILLER	1							
7	1	124240-01871	COVER	1							
8	1	124240-01883	GASKET	1							
9	1	129795-01950	PIPE, KNOCK L=18	2							
10	1	129150-03100	RETAINER, PIPE	1							
11	1	121850-51960	O-RING	1							
12	1	24311-000160	O-RING, 1AP16.0	2							
13	1	24311-000320	O-RING, 1AP32.0	1							
14	1	26106-080122	BOLT, M8X 12 PLATED	4							
15	1	26106-080162	BOLT, M8X 16 PLATED	1							
16	1	26106-080162	BOLT, M8X 16 PLATED	3							
17	1	26106-080202	BOLT, M8X 20 PLATED	2							
18	1	26106-080452	BOLT, M8X 45 PLATED	6							
19	1	26106-080552	BOLT, M8X 55 PLATED	3							
20	1	129001-91840	BOLT, M8X85	4							
21	1	26366-080002	NUT, M8	3							
22	1	22190-080002	WASHER, SEAL 6	4							
23	1	22190-080002	WASHER, SEAL 6	1							
24	1	121023-01550	COVER	1							
25	1	24341-000240	O-RING, 1AS24.0	1							
26	1	26106-060162	BOLT, M6X 16 PLATED	2							
27	1	977770-01212	GASKET, LIQUID	1							

Remarks
(1) OPTIONAL PART.

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.3. OIL SUMP

3.OIL SUMP



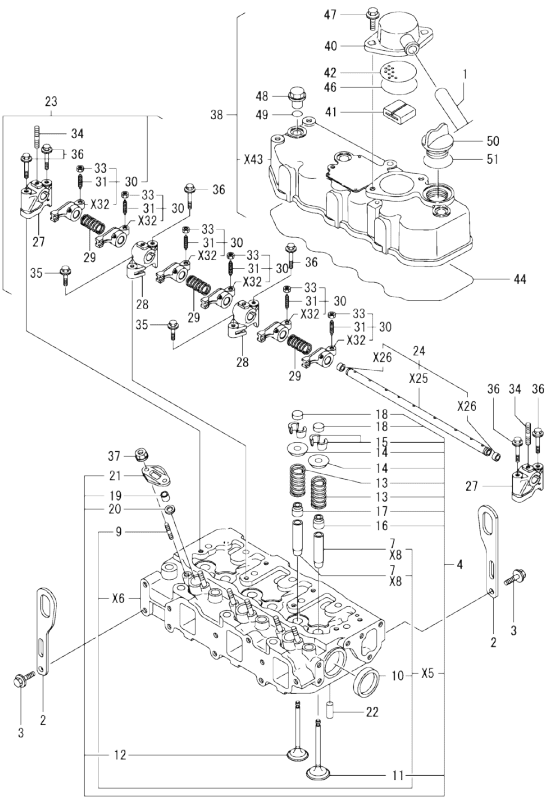
Remarks
(1) OPTIONAL PART.

(A)=3TNE78A-EHP
(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	119885-01600	PLATE	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	8							
4	1	26206-100252	BOLT, M10X 25 PLATED	4							
5	1	119810-01730	SPACER, OIL SUMP	1							
6	1	119810-01790	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	6							
11	1	26106-080452	BOLT, M8X 45 PLATED	22							
12	1	129100-01580	PIN, M8X16	2							
13	1	719810-01650	CASE ASSY, OIL SEAL	1							
15	2	119810-01780	SEAL, 769310	1							
16	1	129486-01670	BOLT, M8X30	6							
17	1	26106-080352	BOLT, M8X 35 PLATED	3							
18	1	977770-01212	GASKET, LIQUID	1							1

Fig.4. CYLINDER HEAD & BONNET



X-MARK PARTS:NOT SOLD SEPARATELY.

(A)=3TNE78A-EHP
(B)=
(C)=

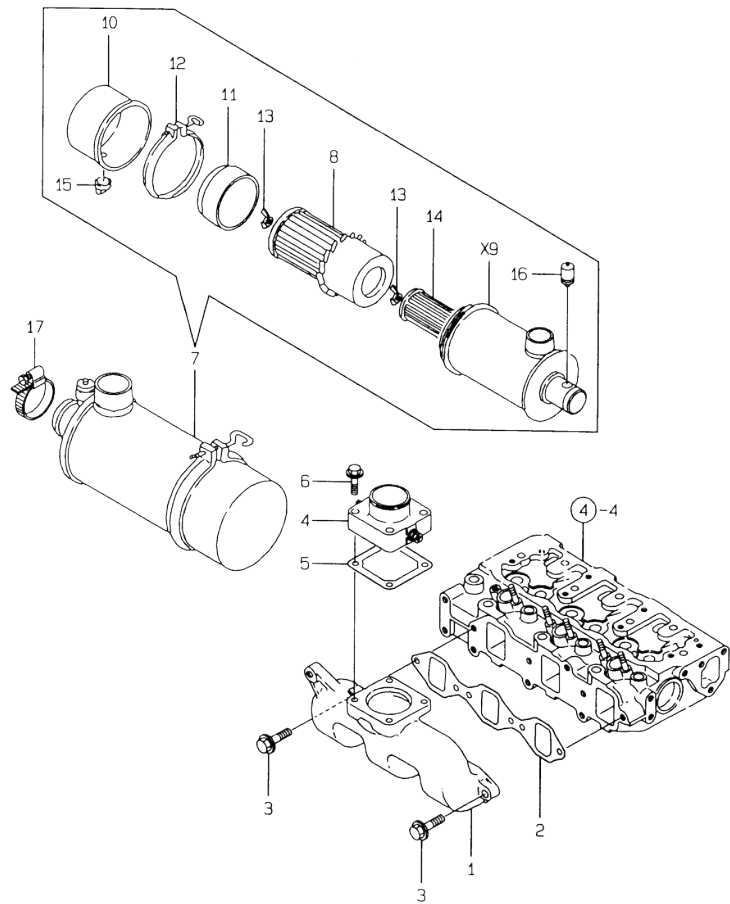
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-03090	HOSE, ID16X2T	1							
2	1	124736-07900	LIFTER	2							
3	1	26106-080142	BOLT, M8X 14 PLATED	4							
4	1	119812-11700	HEAD ASSY, CYLINDER	1							1
7	3	124060-11800	GUIDE, VALVE	6							
9	3	26216-060302	STUD, M6X 30	6							
10	3	27241-400000	PLUG, 40	2							
11	2	119810-11100	VALVE, INTAKE	3							
12	2	119810-11110	VALVE, EXHAUST	3							
13	2	119810-11120	SPRING, VALVE	6							
14	2	104211-11180	RETAINER, SPRING	6							
15	2	27310-070001	COTTER, 7	6							
16	2	124160-11340	SEAL, VALVE STEM	3							
17	2	124950-11340	SEAL, VALVE STEM	3							
18	2	104211-11370	CAP, VALVE	6							
19	2	119625-11870	PROTECTOR, NOZZLE	3							
20	2	119625-11880	SEAT, NOZZLE	3							
21	2	119625-11900	RETAINER, NOZZLE	3							
22	1	22351-060012	PIN, SPRING 6.0X12	2							
23	1	119865-11210	SUPPORT ASSY	1							
24	2	119810-11240	SHAFT ASSY, ROCKER	1							
27	2	129155-11260	SUPPORT, ROCKER ARM	2							
28	2	129155-11270	SUPPORT, ROCKER ARM	2							
29	2	129150-11280	SPRING	3							
30	2	719810-11660	ARM ASSY, ROCKER	6							
31	3	129150-11230	SCREW, VALVE ADJUST	6							
33	3	129150-11750	NUT, M8	6							
34	2	26226-080182	STUD, M8X 18	3							
35	1	26106-080252	BOLT, M8X 25 PLATED	2							
36	1	26106-080502	BOLT, M8X 50 PLATED	6							
37	1	26366-060002	NUT, M6	6							
38	1	719810-11520	BONNET ASSY, HEAD	1							
40	2	129150-03020	COVER, BREATHER	1							
41	2	129150-03070	BAFFLE, BREATHER	1							
42	2	129150-03080	PLATE, BAFFLE	1							
44	2	119865-11310	GASKET, BONNET	1							
46	2	24341-000500	O-RING, 1AS50.0	1							
47	2	26106-080162	BOLT, M8X 16 PLATED	2							
48	1	124160-11360	KNOB	3							
49	1	24311-000120	O-RING, 1AP12.0	3							
50	1	124160-01751	COVER, FILLER	1							
51	1	24311-000320	O-RING, 1AP32.0	1							

Remarks
(1) REPAIR PART.

Fig.5. SUCTION MANIFOLD & AIR CLEANER

5.SUCTION MANIFOLD & AIR CLEANER



(A)=3TNE78A-EHP
(B)=
(C)=

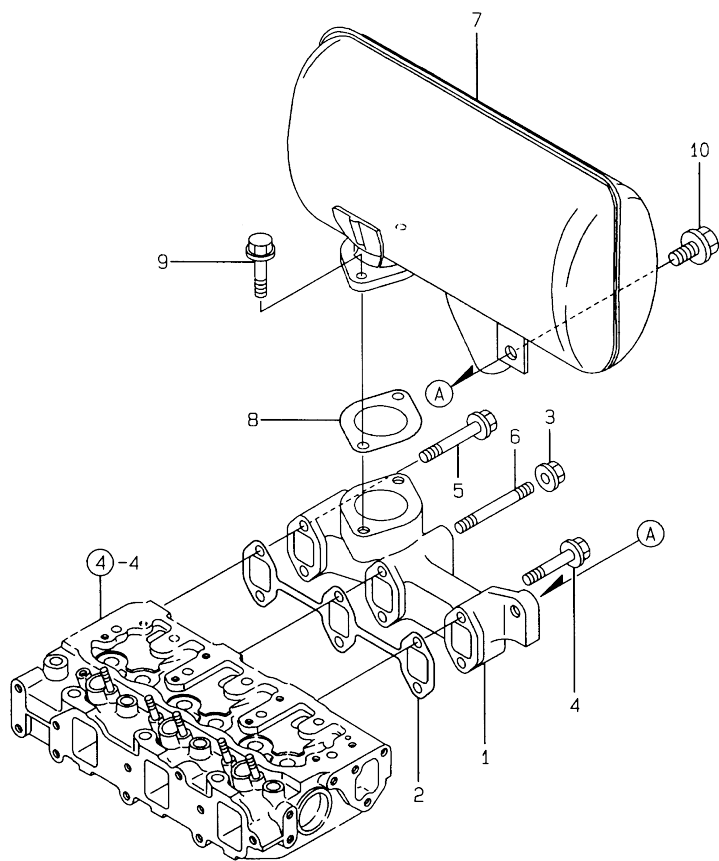
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-12100	MANIFOLD, AIR INTAKE	1							
2	1	119810-12111	GASKET, MANIFOLD	1							
3	1	26106-080252	BOLT, M8X 25 PLATED	4							
4	1	129120-77501	HEATER	1							
5	1	129150-77511	GASKET	1							
6	1	26106-080352	BOLT, M8X 35 PLATED	4							
7	1	129411-12500	CLEANER ASSY, AIR	1							
8	2	121420-12511	ELEMENT	1							
10	2	121422-12530	CUP	1							
11	2	121420-12540	SCARF, BAFFLE	1							
12	2	121420-12550	CLAMP ASSY	1							
13	2	121420-12561	NUT, WING	2							
14	2	121422-12570	ELEMENT	1							
15	2	121422-12580	VALVE, UNLOADER	1							
16	2	126650-12680	INDICATOR	1							
17	1	23000-060000	CLAMP, 60	2							

0CV10-M65500 3TNE78A-EHP

Fig.6. EXHAUST MANIFOLD & SILENCER

6.EXHAUST MANIFOLD & SILENCER



0CV10-M65500 Fig.6

(A)=3TNE78A-EHP
(B)=
(C)=

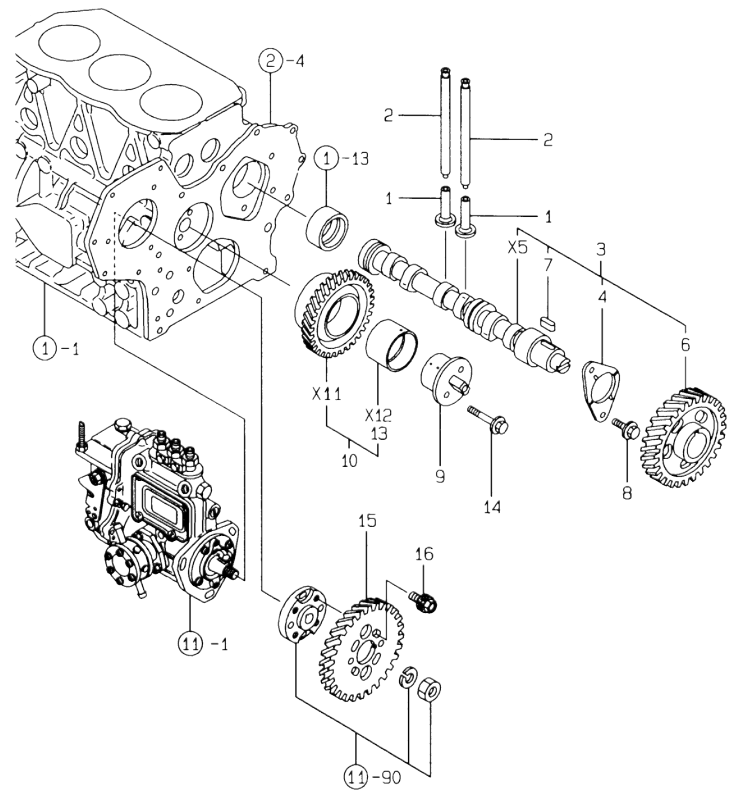
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119820-13100	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET	1							
3	1	26366-080002	NUT, M8	2							
4	1	26106-080502	BOLT, M8X 50 PLATED	2							
5	1	26106-080602	BOLT, M8X 60 PLATED	2							
6	1	26216-080802	STUD, M8X 80	2							
7	1	119820-13510	SILENCER	1							
8	1	129107-13550	GASKET	1							
9	1	26106-080402	BOLT, M8X 40 PLATED	2							
10	1	26106-100162	BOLT, M10X 16 PLATED	1							

0CV10-M65500 3TNE78A-EHP

Fig.7. CAMSHAFT & DRIVING GEAR

7.CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

0CV10-M65500 Fig.7

(A)=3TNE78A-EHP
(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	119810-14400	ROD, PUSH	6							
3	1	119810-14580	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	129100-25061	SHAFT, IDLE	1							
10	1	129150-25101	GEAR ASSY, IDLE	1							
13	2	129150-25920	BUSH, IDLE GEAR	1							1
14	1	26106-080452	BOLT, M8X 45 PLATED	2							
15	1	129150-25930	GEAR, PUMP	1							
16	1	129150-25301	BOLT	4							

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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Fig.8. CRANKSHAFT & PISTON

This diagram shows an exploded view of a mechanical assembly. The components are labeled with numbers and letters as follows:

- Top Assembly:**
 - 15 (32): A bracket grouping parts 17, 18, 19, 20, and 21.
 - 17: A bracket grouping parts 18, 19, and 20.
 - 18 (X35): A ring.
 - 19 (X36): A ring.
 - 20 (X37): A ring.
 - 21: A cylindrical component.
 - 22: A small circular washer or spacer.
 - X16 (X33): A piston or cylinder component.
- Middle Assembly:**
 - 23: A bracket grouping parts 24, 25, 26, 27, 28, 29, and 30.
 - 24: A bracket grouping parts 25, 26, 27, 28, 29, and 30.
 - 25: A bracket grouping parts 26, 27, 28, 29, and 30.
 - 26 (X25): A cylindrical component.
 - 27: A bracket grouping parts 28, 29, and 30.
 - 28 (X31): A bracket grouping parts 29 and 30.
 - 29 (X31): A bracket grouping part 30.
 - 30: A bracket grouping part 31.
 - 31: A bracket grouping part 32.
- Bottom Assembly:**
 - 1: A bracket grouping parts 2, 3, 4, 5, 6, 7, 8, 9, and 10.
 - 2: A bracket grouping parts 3, 4, 5, 6, 7, 8, 9, and 10.
 - 3: A bracket grouping parts 4, 5, 6, 7, 8, 9, and 10.
 - 4: A bracket grouping parts 5, 6, 7, 8, 9, and 10.
 - 5: A bracket grouping parts 6, 7, 8, 9, and 10.
 - 6: A bracket grouping parts 7, 8, 9, and 10.
 - 7: A bracket grouping parts 8, 9, and 10.
 - 8: A bracket grouping parts 9 and 10.
 - 9: A bracket grouping part 10.
 - 10: A bracket grouping part 11.
 - 11: A bracket grouping part 12.
 - 12: A bracket grouping part 13.
 - 13: A bracket grouping part 14.
 - 14: A bracket grouping part 15.
 - 15: A bracket grouping part 16.
 - 16: A bracket grouping part 17.
 - 17: A bracket grouping part 18.
 - 18: A bracket grouping part 19.
 - 19: A bracket grouping part 20.
 - 20: A bracket grouping part 21.
 - 21: A bracket grouping part 22.
 - 22: A bracket grouping part 23.
 - 23: A bracket grouping part 24.
 - 24: A bracket grouping part 25.
 - 25: A bracket grouping part 26.
 - 26: A bracket grouping part 27.
 - 27: A bracket grouping part 28.
 - 28: A bracket grouping part 29.
 - 29: A bracket grouping part 30.
 - 30: A bracket grouping part 31.
 - 31: A bracket grouping part 32.

X-MARK PARTS: NOT SOLD SEPARATELY.

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

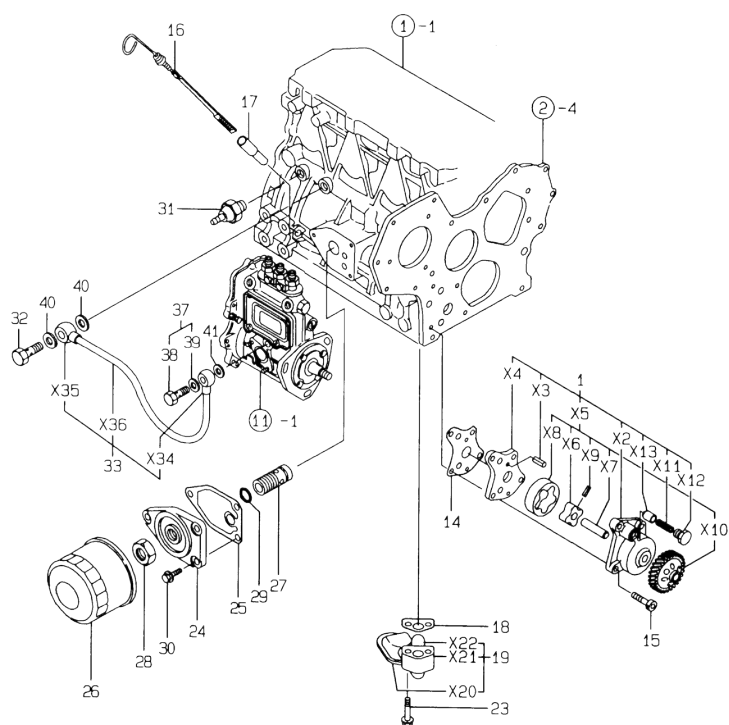
(A)=3TNE78A-EHP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119813-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	129150-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-040010	PIN, SPRING 4.0X10	1							
8	1	171301-21650	V-PULLEY	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171301-21580	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	119923-22080	PISTON ASSY	3							
17	2	119818-22500	RING SET, PISTON	3							
21	1	119813-22300	PIN, PISTON	3							
22	1	129792-22400	CIRCLIP, 23	6							
23	1	719810-23100	ROD ASSY, CONNECTING	3							
26	2	119810-23910	BEARING, PISTON PIN	3							1
27	2	119810-23200	BOLT, CONNECTING ROD	6							
28	2	119810-23600	BEARING, CRANK PIN	3							
30	1	119810-23610	BEARING, 0.25 US	3							2
32	1	119818-22930	PISTON ASSY, 0.25 OS	3							3
34	2	119818-22950	RING SET, 0.25 OS	3							

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:Qty Change

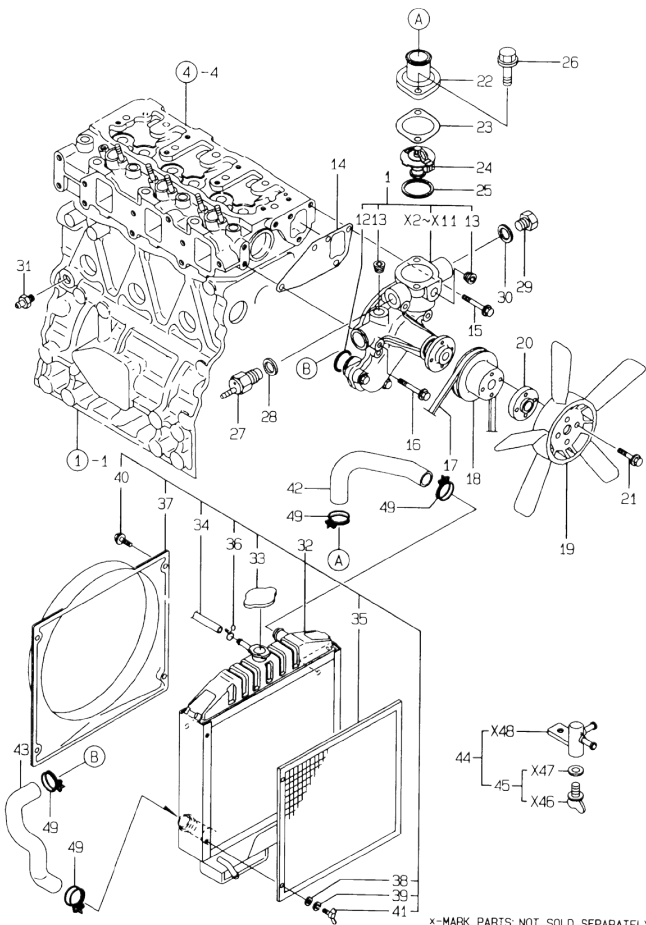
9. LUB. OIL SYSTEM



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	119631-34800	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35041	GASKET	1							
19	1	119810-35401	PIPE ASSY, OIL INLET	1							
23	1	26106-080352	BOLT, M8X 35 PLATED	2							
24	1	129150-35101	BRACKET, STRAINER	1							
25	1	129150-35111	GASKET	1							
26	1	129150-35151	FILTER, D80XL80	1							
27	1	129001-35300	BOLT, FILTER	1							
28	1	129150-35350	NUT	1							
29	1	24311-000160	O-RING, 1AP16.0	1							
30	1	26106-080202	BOLT, M8X 20 PLATED	3							
31	1	124160-39450	SWITCH, 0.5KG	1							
32	1	124160-39140	BOLT, PIPE JOINT M10	1							
33	1	119810-39200	PIPE ASSY, OIL	1							
37	1	124550-59830	BOLT ASSY, JOINT M8	1							
38	2	124550-59820	BOLT, PIPE JOINT M8	1							
39	2	22190-080003	WASHER, SEAL 8	1							
40	1	23414-100000	GASKET, 10X1.0	2							
41	1	22190-080003	WASHER, SEAL 8	1							

Fig.10. COOLING WATER SYSTEM

10.COOLING WATER SYSTEM



x-MARK PARTS: NOT SOLD SEPARATELY.

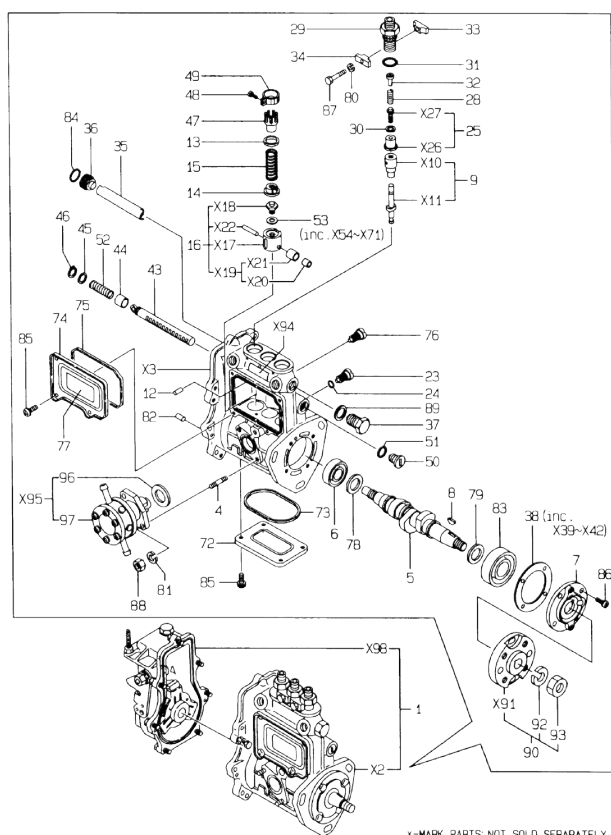
(A)=3TNE78A-EHP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-42001	PUMP ASSY, WATER	1							
12	2	129150-42320	O-RING	1							
13	2	23871-030000	PLUG, R03	2							
14	1	129150-42020	GASKET, WATER PUMP	1							
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	25132-003900	V-BELT, A39	1							
18	1	129403-42380	V-PULLEY, D=110	1							
19	1	129335-44740	FAN, COOLING D335	1							
20	1	124574-44761	SPACER, FAN	1							
21	1	26014-060252	BOLT, M6X 25	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	129795-49551	GASKET	1							
24	1	129155-49800	THERMOSTAT, 71	1							
25	1	129150-49811	GASKET, THERMOSTAT	1							
26	1	26106-080222	BOLT, M8X 22 PLATED	2							
27	1	121250-44901	SWITCH, 110	1							
28	1	124465-44950	GASKET, 16	1							
29	1	121450-42450	PLUG, M16	1							
30	1	124465-44950	GASKET, 16	1							
31	1	121550-49111	JOINT, PT1/4	1							
32	1	129107-44500	RADIATOR ASSY	1							
33	2	129107-44590	CAP, RADIATOR	1							
34	2	129150-44550	HOSE, RUBBER	1							
35	2	129150-44580	SCREEN, RADIATOR	1							
36	2	121250-44590	CLAMP	2							
37	2	129157-44610	SHROUD	1							
38	2	22137-060000	WASHER, 6	2							
39	2	22217-060000	WASHER, SPRING 6	2							
40	2	26014-060122	BOLT, M6X 12	4							
41	2	26645-060122	BOLT, WING M6X12	2							
42	1	119233-49050	PIPE, WATER	1							
43	1	129429-49020	HOSE, WATER	1							
44	1	129150-49100	COCK ASSY, 3-WAY	1							
45	2	129150-49080	COCK, DRAIN	1							
49	1	23010-038000	CLAMP, 38	4							

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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11. FUEL INJECTION PUMP



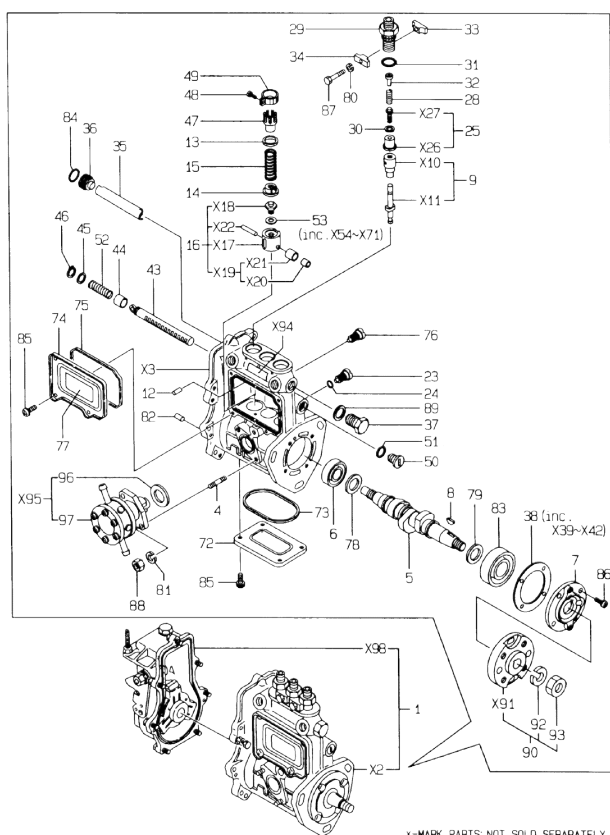
X-MARK PARTS: NOT SOLD SEPARATELY

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Qty	I	R
1	1	719822-51450	PUMP ASSY, INJECTION	1								1
4	3	129155-51020	STUD	2								
5	3	129171-51040	CAMSHAFT	1								
6	3	129155-51050	BEARING, 17BM001D	1								
7	3	129208-51060	SUPPORT	1								
8	3	122710-51090	KEY	1								
9	3	119908-51100	PLUNGER ASSY	3								
12	3	129155-51140	PIN	3								
13	3	174307-51170	RETAINER, SPRING A	3								
14	3	129155-51180	RETAINER, SPRING	3								
15	3	124950-51190	SPRING, PLUNGER	3								
16	3	129155-51200	TAPPET ASSY	3								
23	3	129155-51270	STOPPER, TAPPET	3								
24	3	129155-51280	O-RING, S6	3								
25	3	119908-51300	VALVE ASSY, DELIVERY	3								
28	3	129573-51330	SPRING, DELIVERY	3								
29	3	129573-51340	RETAINER	3								
30	3	124550-51350	GASKET, DELIVERY	3								
31	3	124550-51370	O-RING	3								
32	3	129573-51370	STOPPER, VALVE	3								
33	3	129155-51380	STOPPER	2								
34	3	129155-51390	STOPPER	2								
35	3	129155-51400	DEFLECTOR	1								
36	3	129155-51410	BOLT	1								
37	3	129155-51420	PLUG, M16	1								
38	3	129155-51450	SHIM SET, ADJUSTING	1								
43	3	129155-51500	RACK, CONTROL	1								
44	3	129155-51521	BUSH, RACK	1								
45	3	129155-51530	SPACER	1								
46	3	129155-51540	CIRCLIP	1								
47	3	129155-51550	PINION, CONTROL	3								
48	3	122117-51560	SCREW	3								
49	3	174307-51560	PINION	3								
50	3	129155-51570	PLUG, M12	1								
51	3	129155-51580	O-RING	1								
52	3	129155-51591	SPRING, RACK	1								
53	3	129155-51600	SHIM SET, ADJUSTING	3								
72	3	129155-51700	COVER	1								
73	3	129155-51710	GASKET	1								
74	3	129155-51750	COVER	1								
75	3	129155-51760	GASKET	1								
76	3	129155-51790	STOOOPER, RACK	1								
77	3	129156-51910	LABEL, CAUTION	1								
78	3	129155-51930	SPACER, T=3.25	1								
79	3	129155-51940	SPACER, T=1.5	1								
80	3	22217-050000	WASHER, SPRING 5	2								
81	3	22217-060000	WASHER, SPRING 6	2								
82	3	22351-050010	PIN, SPRING 5.0X10	2								
83	3	24101-063034	BEARING, BALL 6303	1								
84	3	24341-000160	O-RING, 1AS16.0	1								
85	3	26022-050102	SCREW, M5X10	8								

N:Old $\xrightarrow{\text{Yes}}$ New, Q:Old $\xrightarrow{\text{No}}$ New, R:Old $\xrightarrow{\text{Yes}}$ New, S:Old $\xrightarrow{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

11. FUEL INJECTION PUMP



x-MARK PARTS: NOT SOLD SEPARATELY.

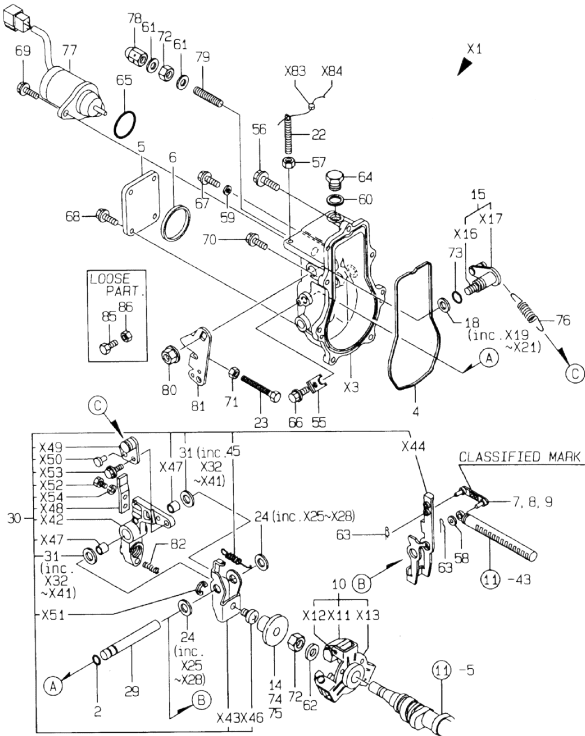
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
86	3	26022-060162	SCREW, M6X16	4							
87	3	26116-050302	BOLT, M5X 30 PLATED	2							
88	3	26716-060002	NUT, M6	2							
89	3	22190-160002	WASHER, SEAL 16	1							
90	3	129208-54500	FLANGE ASSY	1							
92	4	22217-120000	WASHER, SPRING 12	1							
93	4	26716-120002	NUT, M12	1							
96	3	129155-52050	GASKET	1							
97	3	129100-52100	PUMP ASSY, FUEL FEED	1							

Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

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

Fig.12. GOVERNOR

12. GOVERNOR

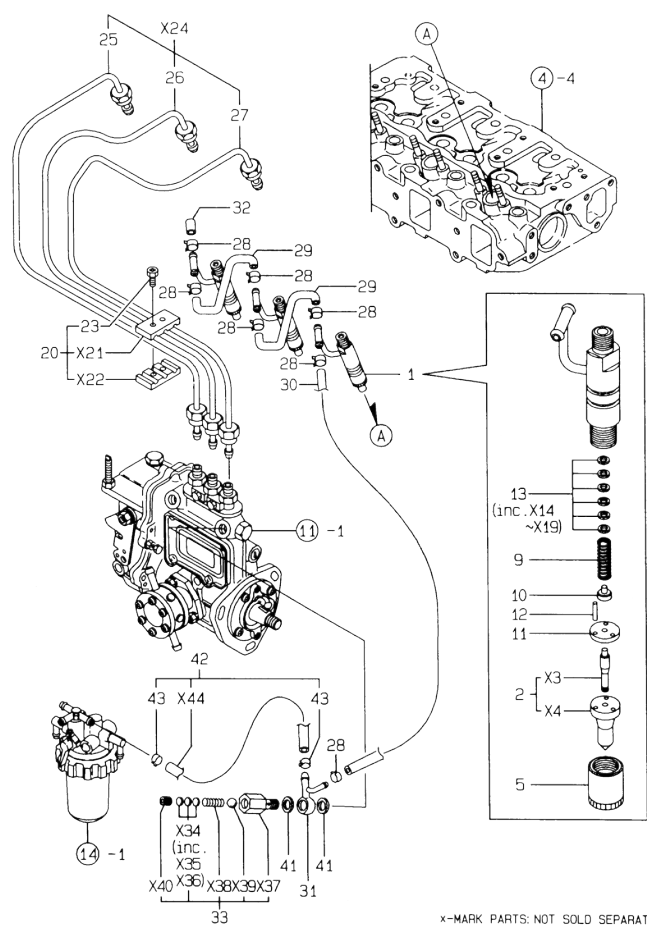


Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.
* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.11).

OCV10-M65500 Fig.12											
			(A)=3TNE78A-EHP				(D)=	(E)=	(F)=		
			(B)=				(C)=	(D)=	(E)=	(F)=	I R
No.	Lev.	Parts No.	Description			(A)	(B)	(C)	(D)	(E)	(F)
2	3	129155-51280	O-RING, S6			1					
4	3	129052-61050	GASKET			1					
5	3	129052-61060	COVER, GOVERNOR CASE			1					
6	3	129052-61070	GASKET			1					
7	3	129155-61120	LINK, L=30 MARK 0			1					1
8	3	129155-61130	LINK, L=31 MARK 1			1					1
9	3	129155-61140	LINK, L=30.5 MARK 05			1					1
10	3	129155-61201	WEIGHT ASSY,GOVERNOR			1					
14	3	129155-61341	SLEEVE			1					2
15	3	129100-61400	SHAFT ASSY			1					
18	3	129155-61430	SPACER			1					
22	3	129155-61450	BOLT, LIMITER			1					
23	3	129155-61460	BOLT, IDLE			1					
24	3	129155-61480	SPACER ASSY			2					
29	3	129052-61390	SHAFT			1					
30	3	129052-61500	LEVER ASSY, GOVERNOR			1					
31	4	174307-51700	SHIM SET			2					
45	4	129052-61540	SPRING, SET			1					
55	3	119660-61901	RETAINER, SHAFT			1					
56	3	129155-61950	BOLT			1					
57	3	124550-66370	NUT, M6			1					
58	3	22117-040000	WASHER, 4			1					
59	3	22190-060003	SEAL WASER 6			1					
60	3	22190-100002	WASHER, SEAL 10			1					
61	3	22190-120002	WASHER, SEAL 12			2					
62	3	22287-120000	WASHER, 12			1					
63	3	22372-040000	PIN, SNAP 4			2					
64	3	23887-100002	PLUG, 10			1					
65	3	24341-000280	O-RING, 1AS28.0			1					
65-1	3	158552-61900	O-RING			1					N
(A=EXXXXX)											
66	3	26106-060102	BOLT, M6X 10 PLATED			1					
67	3	26106-060102	BOLT, M6X 10 PLATED			1					
68	3	26106-060102	BOLT, M6X 10 PLATED			4					
69	3	26106-060142	BOLT, M6X 14 PLATED			2					
70	3	26106-060202	BOLT, M6X 20 PLATED			6					
71	3	26756-060002	NUT, LOCK M6			1					
72	3	26776-120002	NUT, LOCK M12			2					
73	3	129155-61830	O-RING, S10			1					
74	3	129155-61350	SLEEVE, L=24.9			1					2
75	3	129155-61360	SLEEVE, L=25.2			1					2
76	2	171353-61700	SPRING, GOVERNOR			1					
77	2	119653-77950	SOLENOID, STOP			1					
78	2	129100-61930	NUT, CAP			1					
79	2	129155-61470	BOLT, CONTROL			1					
80	2	26366-080002	NUT, M8			1					
81	2	129100-61440	LEVER, CONTROL			1					
82	2	129100-61650	SPRING, CONTROLLER			1					
85	1	26116-040128	BOLT, M4X 12 PLATED			1					
86	1	26756-040002	NUT, LOCK M4			1					

Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE



x-MARK PARTS: NOT SOLD SEPARATELY.

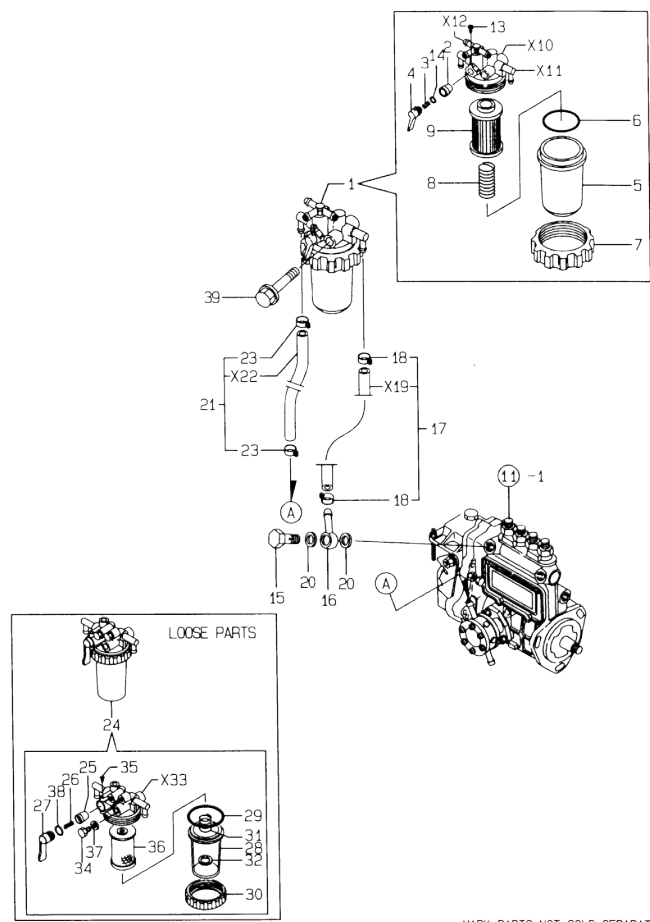
(A)=3TNE78A-EHP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719908-53100	VALVE ASSY,INJECTION	3							
2	2	119908-53000	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
9	2	114250-53120	SPRING, NOZZLE	3							
10	2	114250-53130	SEAT, SPRING	3							
11	2	114250-53140	PLATE	3							
12	2	114250-53210	PIN	6							
13	2	114250-53400	SHIM SET	3							
20	1	129150-59120	RETAINER, PIPE	1							
23	2	129150-59131	BOLT, M4X14	2							
25	2	119923-59810	PIPE ASSY, INJECTION	1							
26	2	119923-59820	PIPE ASSY, INJECTION	1							
27	2	119923-59831	PIPE ASSY, INJECTION	1							
28	1	124066-59100	CLIP, HOSE 8	7							
29	1	121250-59550	PIPE, FUEL D8X120	2							
30	1	119840-59560	PIPE, FUEL RETURN	1							
31	1	119840-59570	JOINT	1							
32	1	129150-59580	CAP	1							
33	1	129100-59951	VALVE ASSY, CHECK	1							
41	1	23414-120000	GASKET, 12X1.0	2							
42	1	129210-59130	PIPE ASSY, FUEL	1							
43	2	124766-59050	CLIP, HOSE 12	2							

Fig.14. FUEL LINE

14.FUEL LINE



x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-55621	FILTER ASSY, FUEL	1							
2	2	104200-55321	VALVE, TAPER	1							
3	2	104200-55330	SPRING, VALVE	1							
4	2	119810-55340	LEVER	1							
5	2	121254-55510	COVER	1							
6	2	102103-55520	O-RING	1							
7	2	110250-55610	RING, RETAINING	1							
8	2	121250-55620	SPRING	1							
9	2	119810-55650	ELEMENT	1							
13	2	104200-55750	SCREW, M4	1							
14	2	24311-240100	O-RING, 1AP10A	1							
15	1	103854-39140	BOLT, PIPE JOINT	1							
16	1	101304-59020	JOINT, PIPE 12	1							
17	1	129210-59040	PIPE ASSY, FUEL	1							
18	2	124766-59050	CLIP, HOSE 12	2							
20	1	22190-120002	WASHER, SEAL 12	2							
21	1	129210-59130	PIPE ASSY, FUEL	1							
23	2	124766-59050	CLIP, HOSE 12	2							
24	1	129335-55700	SEPARATOR ASSY, WATER	1							
25	2	104200-55321	VALVE, TAPER	1							
26	2	104200-55330	SPRING, VALVE	1							
27	2	104200-55341	HANDLE	1							
28	2	124064-55510	COVER	1							
29	2	102103-55520	O-RING	1							
30	2	110250-55610	RING, RETAINING	1							
31	2	121257-55720	SPRING	1							
32	2	121257-55731	FLOAT	1							
34	2	101720-55750	PLUG, 6	2							
35	2	104200-55750	SCREW, M4	1							
36	2	171081-55910	SCREEN	1							
37	2	23418-060000	GASKET, 6X1.0	2							
38	2	24311-240100	O-RING, 1AP10A	1							
39	1	26014-080702	BOLT, M8X 70	1							

This exploded view diagram illustrates the assembly of a mechanical unit. The components are numbered as follows:

- 1**: Main housing or frame.
- 2**: Motor or actuator assembly.
- 3**: Gear or pulley component.
- 4**: Gear or pulley component.
- 5**: Gear or pulley component.
- 6**: Gear or pulley component.
- 7**: Gear or pulley component.
- 8**: Gear or pulley component.
- 9**: Housing or cover part.
- 10**: Housing or cover part.
- 11**: Housing or cover part.
- 12**: Small cylindrical component.
- 13**: Lever or arm component.
- 14**: Lever or arm component.
- 15**: Gear or pulley component.
- 16**: Small cylindrical component.
- 17**: Small cylindrical component.
- 18**: Small cylindrical component.
- 19**: Gear or pulley component.
- 20**: Small cylindrical component.
- 21**: Gear or pulley component.
- 22**: Small cylindrical component.
- 23**: Long shaft or rod component.
- 24**: Bolt or screw component.
- 25**: Cable or wire component.
- 26**: Connector or plug component.
- 27**: Cable or wire component.
- 28**: Small cylindrical component.

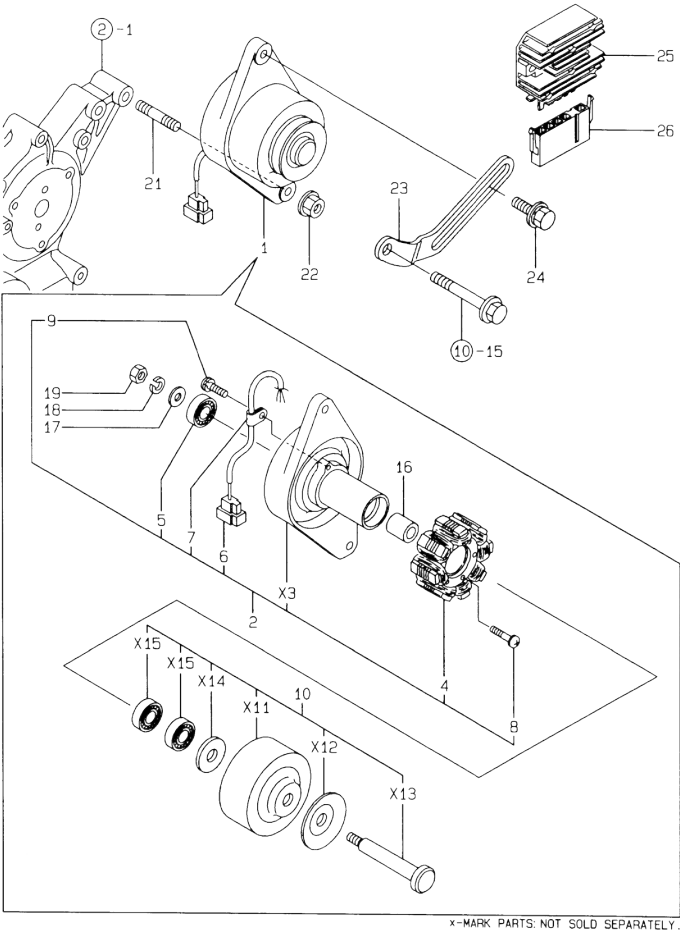
Arrows indicate the assembly sequence and direction of fit for various parts. A callout 'A' points to specific mounting points on parts 3, 11, and 12.

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

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Fig.16. GENERATOR

16. GENERATOR



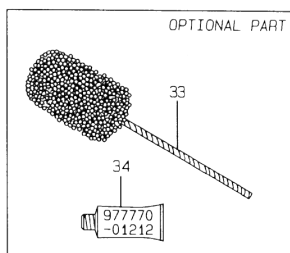
x-MARK PARTS: NOT SOLD SEPARATELY.

(A)=3TNE78A-EHP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171301-77201	DYNAMO ASSY, 15A	1							
2	2	XM08137	PLATE ASSY	1							
4	3	XM08180	STATOR SET	1							
5	3	XM27436	BEARING, BALL	1							
6	3	XM17878	COUPLER	1							
7	3	XM36410	CLAMP	1							
8	3	26022-040252	SCREW, M4X25	2							
9	3	XYSPS4008	SCREW	1							
10	2	XM82184	FLYWHEEL ASSY	1							
16	2	106383-44720	SPACER	1							
17	2	106383-44730	WASHER	1							
18	2	22212-100000	SPRING WASHER 10	1							
19	2	26716-100002	NUT, M10	1							
21	1	129795-01900	STUD	1							
22	1	26366-100002	NUT, M10	1							
23	1	129400-77330	ADJUSTER	1							
24	1	119810-77340	BOLT, ADJUSTER	1							
25	1	119660-77710	LIMITER, CURRENT 15A	1							
26	1	171301-77720	COUPLER	1							

17. GASKET SET

Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719818-92640	GASKET SET	1							1
2	2	119818-01330	GASKET, HEAD	1							
3	2	124240-01883	GASKET	1							
4	2	121850-51960	O-RING	1							
5	2	124160-11340	SEAL, VALVE STEM	3							
6	2	119625-11870	PROTECTOR, NOZZLE	3							
7	2	119625-11880	SEAT, NOZZLE	3							
8	2	119865-11310	GASKET, BONNET	1							
9	2	129150-77511	GASKET	1							
10	2	119810-12111	GASKET, MANIFOLD	1							
11	2	119810-13110	GASKET	1							
12	2	124950-11340	SEAL, VALVE STEM	3							
13	2	129150-32020	GASKET, PUMP	1							
14	2	129150-35041	GASKET	1							
15	2	129150-35111	GASKET	1							
16	2	129150-42020	GASKET, WATER PUMP	1							
17	2	129795-49551	GASKET	1							
18	2	24311-000120	O-RING, 1AP12.0	3							
19	2	24311-000160	O-RING, 1AP16.0	3							
20	2	24311-000320	O-RING, 1AP32.0	2							
21	2	24341-000500	O-RING, 1AS50.0	1							
22	2	24341-000240	O-RING, 1AS24.0	1							
23	2	23414-100000	GASKET, 10X1.0	2							
24	2	124465-44950	GASKET, 16	2							
25	2	129150-49811	GASKET, THERMOSTAT	1							
26	2	23414-120000	GASKET, 12X1.0	2							
27	2	22190-080002	WASHER, SEAL 6	5							
28	2	22190-220002	WASHER, SEAL 22	1							
29	2	129107-13550	GASKET	1							
30	2	22190-080003	WASHER, SEAL 8	2							
31	2	129155-52050	GASKET	1							
32	2	22190-120002	WASHER, SEAL 12	2							
33	1	129400-92420	HONE	1							1
34	1	977770-01212	GASKET, LIQUID	1							

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

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