

0CV10-M41200EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A-ADCL engine manufactured since December, 1994.
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	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST COMPENSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New $\xrightarrow{\text{No}}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{Yes}}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New $\xrightarrow{\text{Yes}}$ New	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{No}}$ New	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

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

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

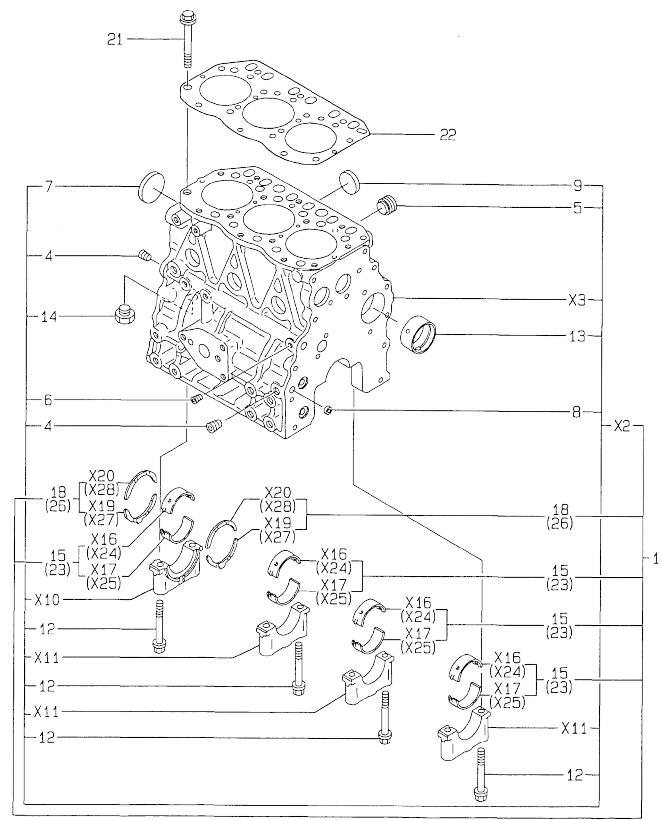
Contents

0CV10-M41200

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-ADCL			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & 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.	STARTING MOTOR		
15.	GENERATOR		
16.	GASKET SET		

0CV10-M41200 3TNE78A-ADCL
Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK

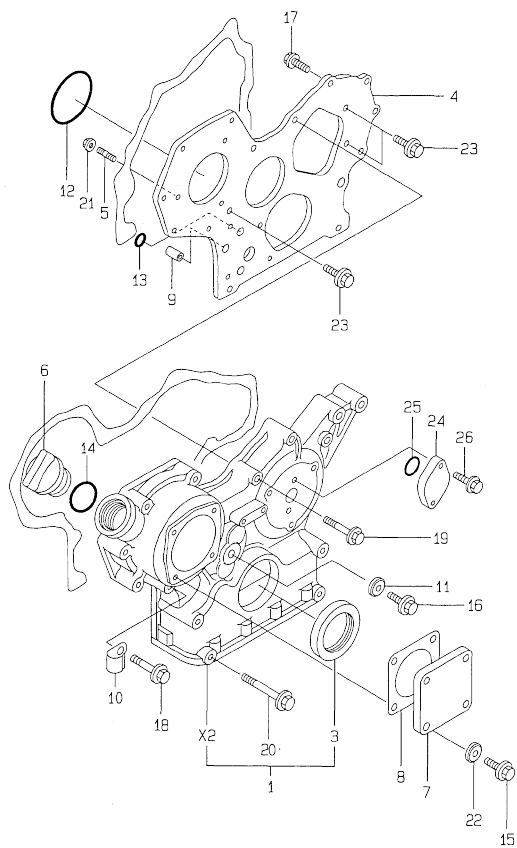


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.

				0CV10-M41200 Fig.1							
				(A)=3TNE78A-ADCL (B)= (C)=			(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	2							
5	3	171051-01921	PLUG, NPTF1	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	23887-120002	PLUG, 12	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							G
23	1	119810-02870	BEARING, 0.25 US	4							1
26	1	119810-02940	BEARING, THRUST 0.25	2							2

Fig.2. GEAR HOUSING

2.GEAR HOUSING

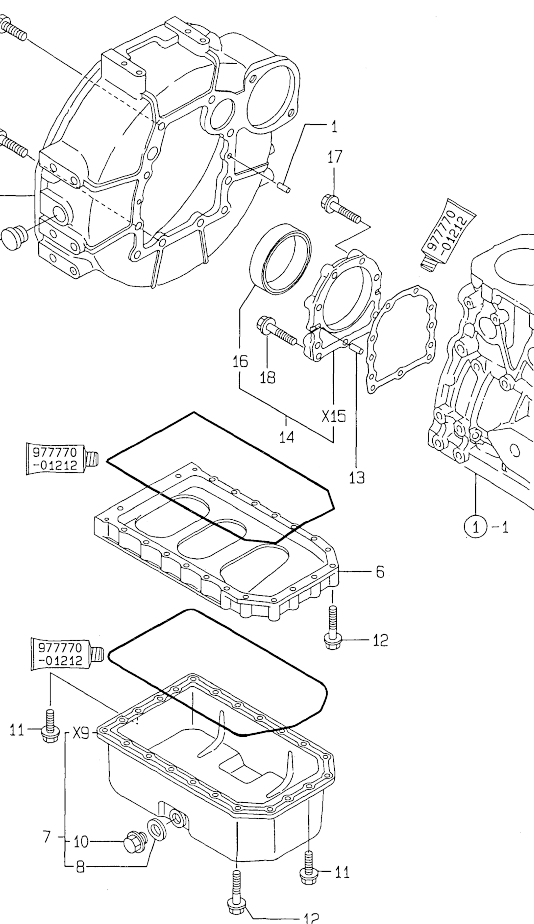


Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.

0CV10-M41200 Fig.2
(A)=3TNE78A-ADCL
(D)=
(E)=
(F)=
Q'ty

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							G
9	1	129795-01950	PIPE, KNOCK L=18	2							
10	1	129150-03100	RETAINER, PIPE	1							
11	1	22190-080002	WASHER, SEAL 6	1							
12	1	121850-51960	O-RING	1							G
13	1	24311-000160	O-RING, 1AP16.0	2							G
14	1	24311-000320	O-RING, 1AP32.0	1							G
15	1	26106-080122	BOLT, M8X 12 PLATED	4							
16	1	26106-080162	BOLT, M8X 16 PLATED	1							
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	26106-080852	BOLT, M8X 85 PLATED	4							
21	1	26366-080002	NUT, M8	3							
22	1	22190-080002	WASHER, SEAL 6	4							
23	1	26106-080162	BOLT, M8X 16 PLATED	3							
24	1	121023-01550	COVER	1							
25	1	24341-000240	O-RING, 1AS24.0	1							G
26	1	26106-060122	BOLT, M6X 12 PLATED	2							

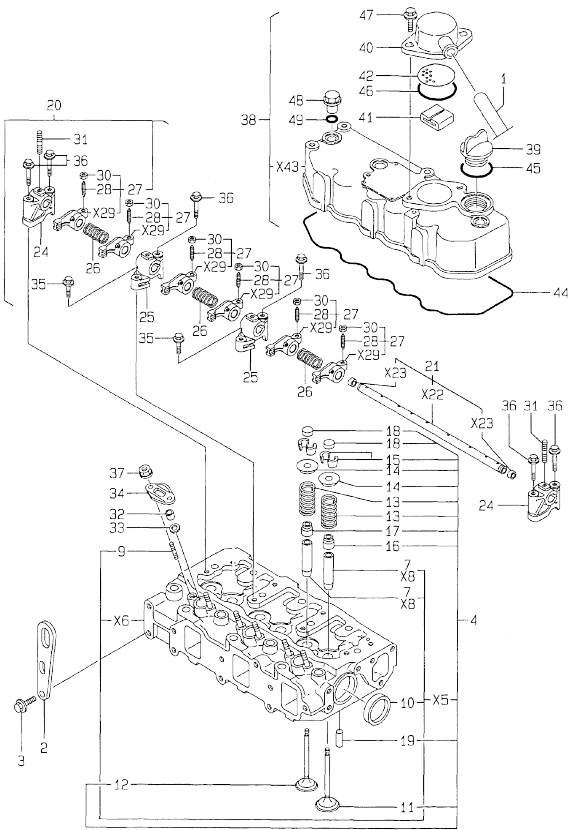
3.FLYWHEEL HOUSING & OIL SUMP



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, M8X16	2							
2	1	171420-01600	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	119810-01730	SPACER, OIL SUMP	1							
7	1	119810-01770	SUMP ASSY, OIL	1							
8	2	119640-01640	PLUG, DRAIN M22	1							
10	2	22190-220002	WASHER, SEAL 22	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	6							
12	1	26106-080452	BOLT, M8X 45 PLATED	22							
13	1	129100-01580	PIN, M8X16	2							
14	1	719810-01650	CASE ASSY, OIL SEAL	1							
16	2	119810-01780	SEAL, 769310	1							
17	1	26106-080302	BOLT, M8X 30 PLATED	6							
18	1	26106-080352	BOLT, M8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET

4. CYLINDER HEAD & BONNET



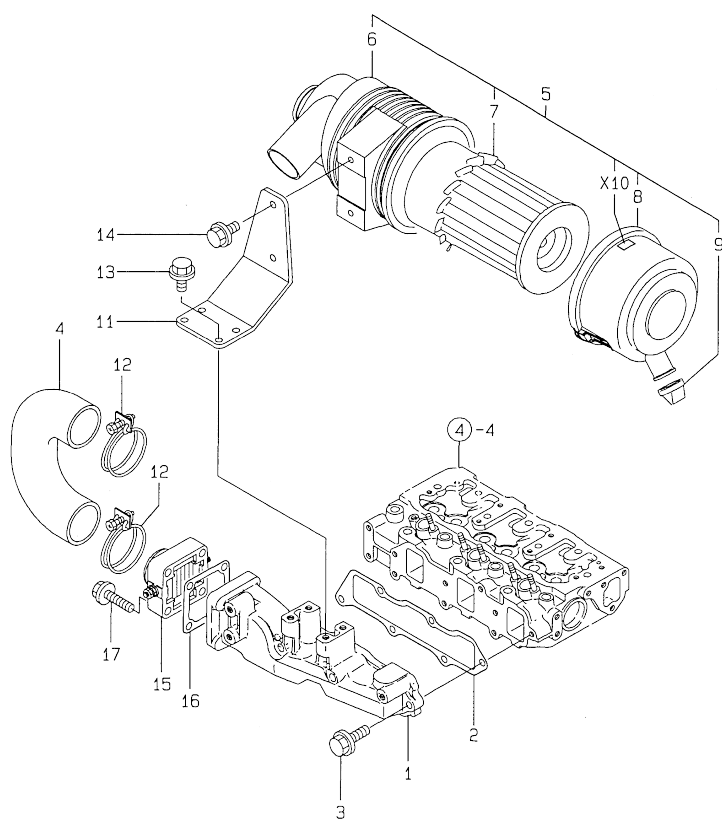
Remarks
(1) REPAIR PART.
(G) THESE PARTS ARE SOLD BY FIG.16.
REF.NO.1.

(A)=3TNE78A-ADCL
(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	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	2							
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							G
17	2	124950-11340	SEAL, VALVE STEM	3							G
18	2	104211-11370	CAP, VALVE	6							
19	2	22351-060012	PIN, SPRING 6.0X12	2							
20	1	119865-11210	SUPPORT ASSY	1							
21	2	119810-11240	SHAFT ASSY, ROCKER	1							
24	2	129155-11260	SUPPORT, ROCKER ARM	2							
25	2	129155-11270	SUPPORT, ROCKER ARM	2							
26	2	129150-11280	SPRING	3							
27	2	719810-11660	ARM ASSY, ROCKER	6							
28	3	129150-11230	SCREW, VALVE ADJUST	6							
30	3	129150-11750	NUT, M8	6							
31	2	26226-080182	STUD, M8X 18	3							
32	1	119625-11871	PROTECTOR, NOZZLE	3							G
33	1	119625-11880	SEAT, NOZZLE	3							G
34	1	119625-11900	RETAINER, NOZZLE	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							
39	2	124160-01751	COVER, FILLER	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							G
45	2	24311-000320	O-RING, 1AP32.0	1							
46	2	24341-000500	O-RING, 1AS50.0	1							G
47	2	26106-080162	BOLT, M8X 16 PLATED	2							
48	1	124160-11360	KNOB	3							
49	1	24311-000120	O-RING, 1AP12.0	3							G

5. SUCTION MANIFOLD & AIR CLEANER



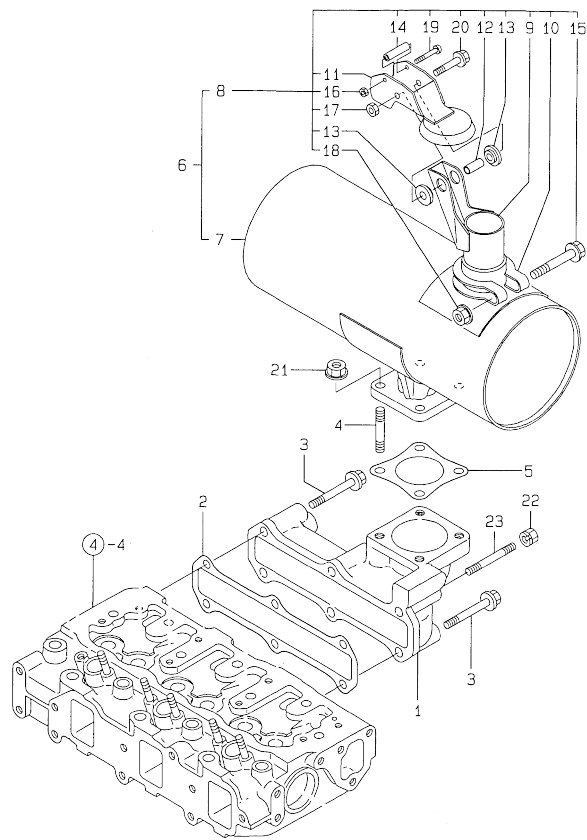
Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.
(M) MISPRINT.

				(A)=3TNE78A-ADCL (B)= (C)=	0CV10-M41200 Fig.5				(D)= (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119813-12100	MANIFOLD, AIR INTAKE	1							
2	1	119813-12110	GASKET, MANIFOLD	1							G
3	1	26106-080252	BOLT, M8X 25 PLATED	6							
4	1	129619-12210	PIPE, AIR INTAKE	1							
5	1	129619-12500	CLEANER ASSY, AIR	1							
6	2	129619-12520	ELEMENT	1							
6-1	2	129619-12510	BODY	1							R
(A=FROM 1ST)											
7	2	129619-12510	BODY	1							M
7-1	2	119808-12520	ELEMENT	1							
8	2	129619-12530	COVER ASSY	1							
8-1	2	119808-12530	COVER	1							R
(A=FROM 1ST)											
9	2	129619-12540	VALVE	1							
9-1	2	119808-12540	VALVE, UNLOADER	1							R
(A=FROM 1ST)											
11	1	129619-12560	BRACKET, AIR CLEANER	1							
12	1	23000-060000	CLAMP, 60	2							
13	1	26106-080182	BOLT, M8X 18 PLATED	4							
14	1	26106-080182	BOLT, M8X 18 PLATED	2							
15	1	129120-77501	HEATER	1							
16	1	129150-77511	GASKET	1							G
17	1	26106-080352	BOLT, M8X 35 PLATED	4							

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.6. EXHAUST MANIFOLD & SILENCER

6.EXHAUST MANIFOLD & SILENCER



Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.

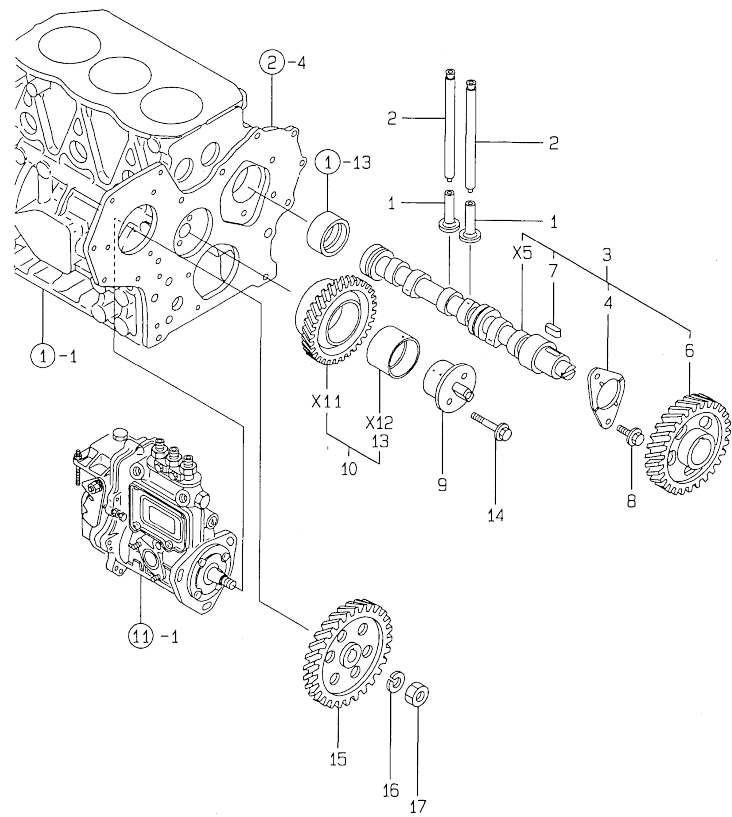
(A)=3TNE78A-ADCL
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-13100	MANIFOLD, EXHAUST	1							
2	1	119813-13110	GASKET	1							G
3	1	26106-080602	BOLT, M8X 60 PLATED	4							
4	1	26216-080222	STUD, M8X 22	4							
5	1	121000-13201	GASKET, SILENCER	1							G
6	1	119620-13501	SILENCER	1							
7	2	119620-13510	SILENCER ASSY	1							
8	2	119620-13520	PIPE ASSY, TAIL	1							
9	3	119620-13560	PIPE, TAIL	1							
10	3	124664-13580	CLAMP	1							
11	3	119358-13640	CAP, RAIN	1							
12	3	121855-13821	SPACER, A	1							
13	3	121855-13830	SPACER, B	2							
14	3	123500-13840	SPACER, C	1							
15	3	26106-080502	BOLT, M8X 50 PLATED	1							
16	3	26347-040002	NUT, M4	1							
17	3	26347-060002	NUT, M6	1							
18	3	26366-080002	NUT, M8	1							
19	3	26557-040352	SCREW, M4X35	1							
20	3	26106-060402	BOLT, M6X 40 PLATED	1							
21	1	194990-22050	NUT, M8	4							
22	1	194990-22050	NUT, M8	2							
23	1	26216-080602	STUD, M8X 60	2							

Fig.7. CAMSHAFT & DRIVING GEAR

7. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

(A)=3TNE78A-ADCL
(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	26106-080162	BOLT, M8X 16 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	129150-25900	GEAR, PUMP	1							
16	1	22217-120000	WASHER, SPRING 12	1							
17	1	26716-120002	NUT, M12	1							

Fig.8. CRANKSHAFT & PISTON

This diagram illustrates the exploded view of a mechanical assembly, showing the relationship between various components. The parts are labeled with numbers and codes:

- Top Assembly (Piston and Rings):**
 - 15 (32):** Piston assembly, including the piston body (**X16 (X33)**).
 - 17 (34):** Piston rings, including **X18 (X35)**, **X19 (X36)**, and **X20 (X37)**.
 - 21:** Piston pin.
 - 22:** Piston pin clips.
- Intermediate Assembly (Crankshaft and Connecting Rod):**
 - 23 (30):** Connecting rod assembly, including the rod (**X24**), pin (**X25**), and bushings (**X29 (X31)**).
 - 26:** Connecting rod pin.
 - 27:** Crankshaft pin.
 - 28 (30):** Crankshaft pin.
- Bottom Assembly (Crankshaft and Pulley):**
 - 1:** Crankshaft assembly, including the crank (**X6**), pin (**X3**), and bushings (**5**).
 - 2:** Crankshaft pin.
 - 3:** Crankshaft pin.
 - 4:** Crankshaft pin.
 - 7:** Crankshaft pin.
 - 8:** Crankshaft pin.
 - 9:** Crankshaft pin.
 - 10:** Crankshaft pin.
 - 11:** Pulley assembly, including the pulley (**X13**) and the pulley body (**14**).
 - 12:** Pulley assembly.

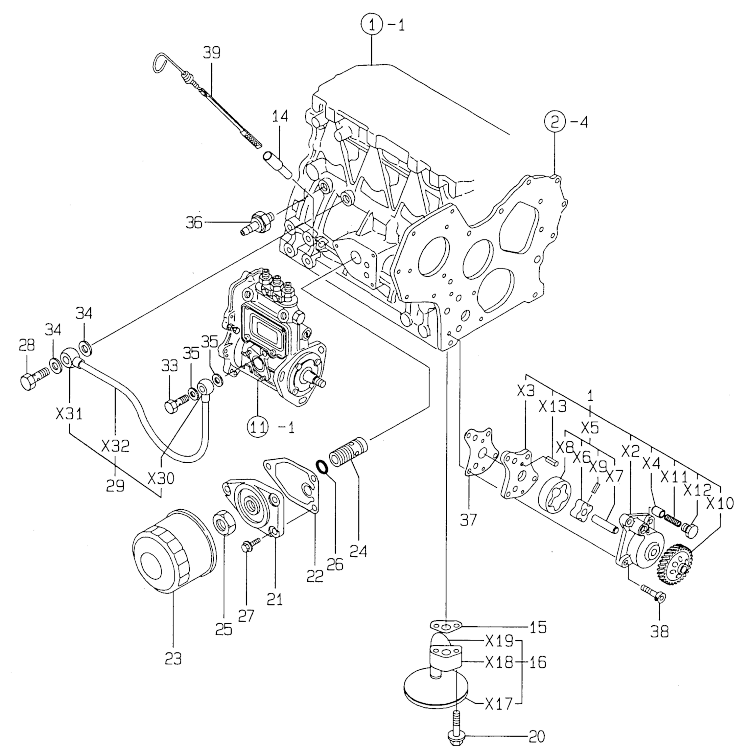
Remarks
(1) REPAIR PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) OVER-SIZE(O.S=0.25)PART.

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	129550-21650	V-PULLEY	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171301-21590	FLYWHEEL ASSY	1							
14	2	124550-21600	GEAR, RING	1							
15	1	119818-22080	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	119818-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119818-22950	RING SET, 0.25 OS	3							

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

0CV10-M41200 3TNE78A-ADCL
Fig.9. LUB.OIL SYSTEM

9.LUB.OIL SYSTEM

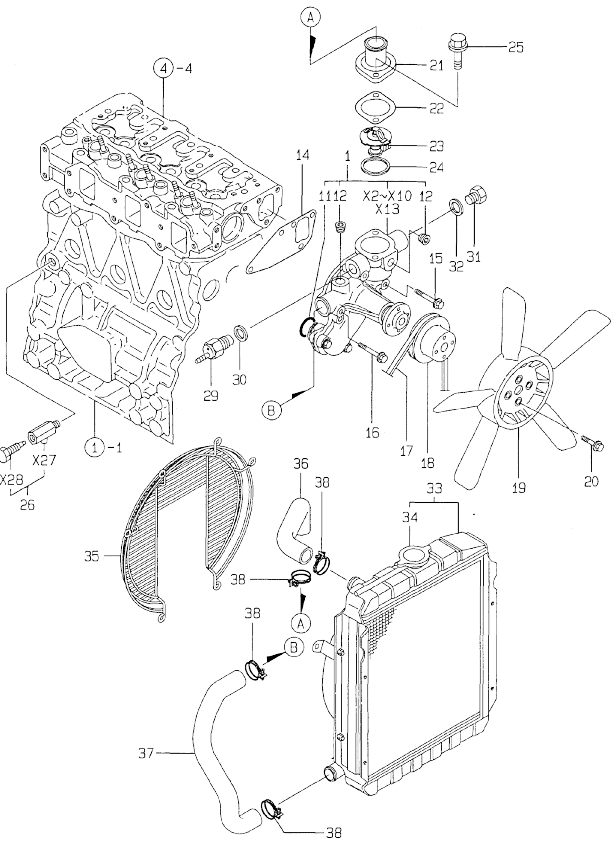


Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.

										0CV10-M41200 Fig.9	
										(A)=3TNE78A-ADCL (B)= (C)=	
										(D)= (E)= (F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	121520-34810	GUIDE, DIPSTICK	1							
15	1	129150-35041	GASKET	1						G	
16	1	119810-35300	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	129150-35101	BRACKET, STRAINER	1							
22	1	129150-35111	GASKET	1						G	
23	1	129150-35151	FILTER, D80XL80	1							
24	1	129001-35300	BOLT, FILTER	1							
25	1	129150-35350	NUT	1							
26	1	24311-000160	O-RING, 1AP16.0	1						G	
27	1	26106-080202	BOLT, M8X 20 PLATED	3							
28	1	124160-39140	BOLT, PIPE JOINT M10	1							
29	1	119810-39200	PIPE ASSY, OIL	1							
33	1	124550-59820	BOLT, PIPE JOINT M8	1							
34	1	22190-080002	WASHER, SEAL 6	2							
35	1	23414-100000	GASKET, 10X1.0	2						G	
36	1	124160-39450	SWITCH, 0.5KG	1							
37	1	129150-32020	GASKET, PUMP	1						G	
38	1	26450-060252	BOLT, M6X 25	4							
39	1	119600-34800	DIPSTICK, OIL	1							

Fig.10. COOLING WATER SYSTEM

10.COOLING WATER SYSTEM



x-MARK PARTS; NOT SOLD SEPARATELY.

Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.

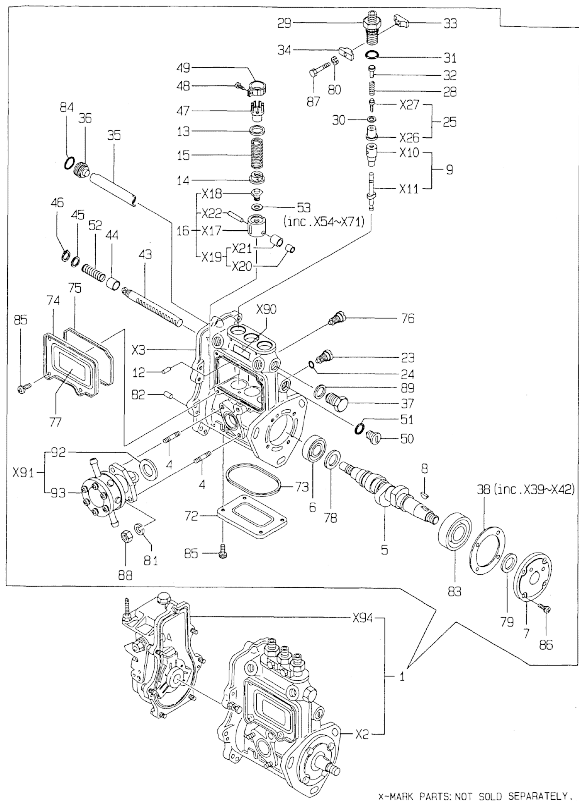
(A)=3TNE78A-ADCL
(B)=
(C)=

(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							
11	2	129150-42320	O-RING	1							
12	2	23871-030000	PLUG, R03	2							
14	1	129150-42020	GASKET, WATER PUMP	1							G
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	119831-42290	V-BELT, A37.5	1							
18	1	129155-42350	V-PULLEY	1							
19	1	124700-44740	FAN, COOLING 5X310	1							
20	1	26014-060162	BOLT, M6X 16	4							
21	1	129350-49530	COVER, THERMOSTAT	1							
22	1	129795-49551	GASKET	1							G
23	1	129155-49800	THERMOSTAT, 71	1							
24	1	129150-49811	GASKET, THERMOSTAT	1							G
25	1	26106-080202	BOLT, M8X 20 PLATED	2							
26	1	119620-49290	COCK ASSY, 1/4	1							
29	1	121250-44901	SWITCH, 110	1							
30	1	124465-44950	GASKET, 16	1							G
31	1	121450-42450	PLUG, M16	1							
32	1	124465-44950	GASKET, 16	1							G
33	1	119820-44500	RADIATOR	1							
34	2	119259-44570	CAP, RADIATOR	1							
35	1	119820-44560	PROTECTOR, FAN	1							
36	1	171301-49010	PIPE, WATER	1							
37	1	171301-49020	PIPE, WATER	1							
38	1	23010-038000	CLAMP, 38	4							

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) GOVERNOR ASSY (FIG. 12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).
(G) THESE PARTS ARE SOLD BY FIG. 16,
REF.NO. 1.

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

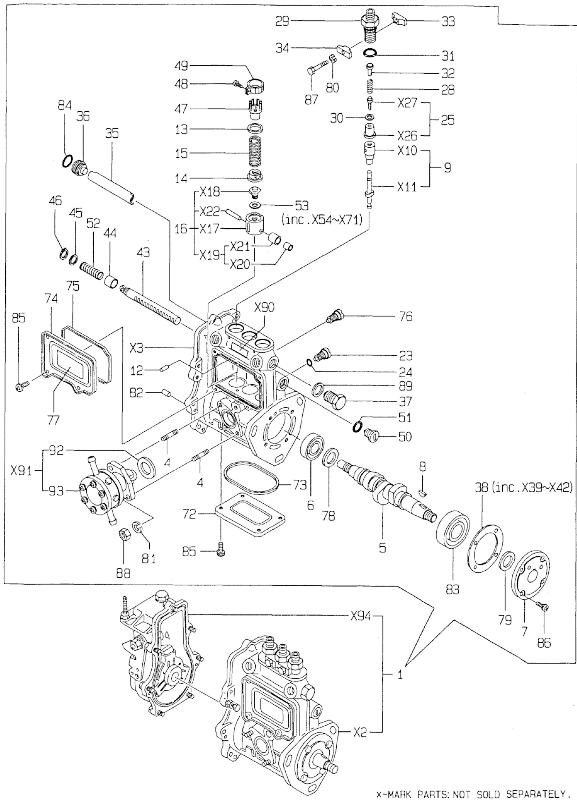
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719989-51310	PUMP ASSY, INJECTION	1							1
4	3	129155-51020	STUD	2							
5	3	119810-51040	CAMSHAFT	1							
6	3	129155-51050	BEARING, 17BM001D	1							
7	3	129155-51060	SUPPORT, CAMSHAFT	1							
8	3	122710-51090	KEY	1							
9	3	129108-51100	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	129100-51300	VALVE ASSY, DELIVERY	3							
28	3	129155-51320	SPRING, DELIVERY	3							
29	3	129155-51340	RETAINER	3							
30	3	124550-51350	GASKET, DELIVERY	3							
31	3	124550-51370	O-RING	3							
32	3	129155-51370	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	STOOPER, 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 $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) GOVERNOR ASSY(FIG.12) IS INCORPORATED IN THIS FOP.CMP (REF.NO.1).
(G) THESE PARTS ARE SOLD BY FIG.16, REF.NO.1.

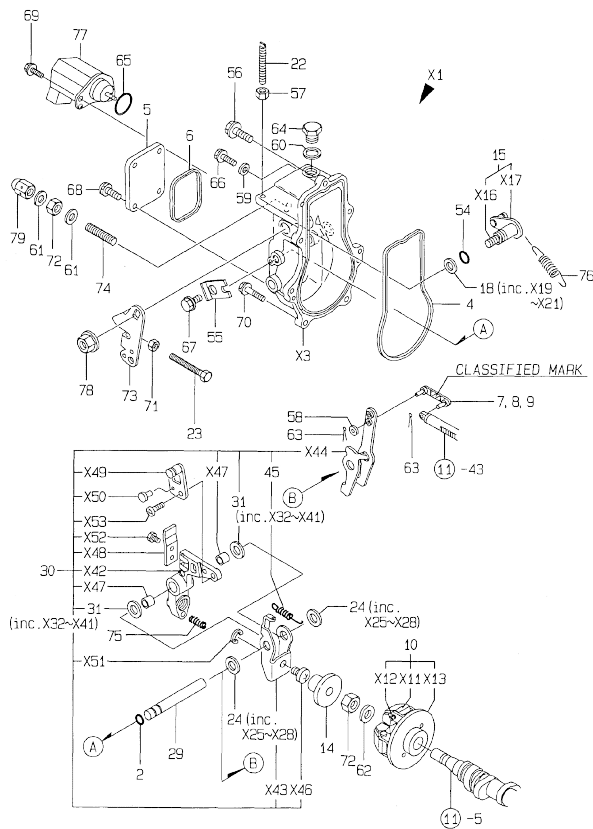
(A)=3TNE78A-ADCL
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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							
92	3	129155-52050	GASKET	1							G
93	3	129100-52100	PUMP ASSY, FUEL FEED	1							

Fig.12. GOVERNOR

12. GOVERNOR



Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER(REFER TO ILLUSTRATION)

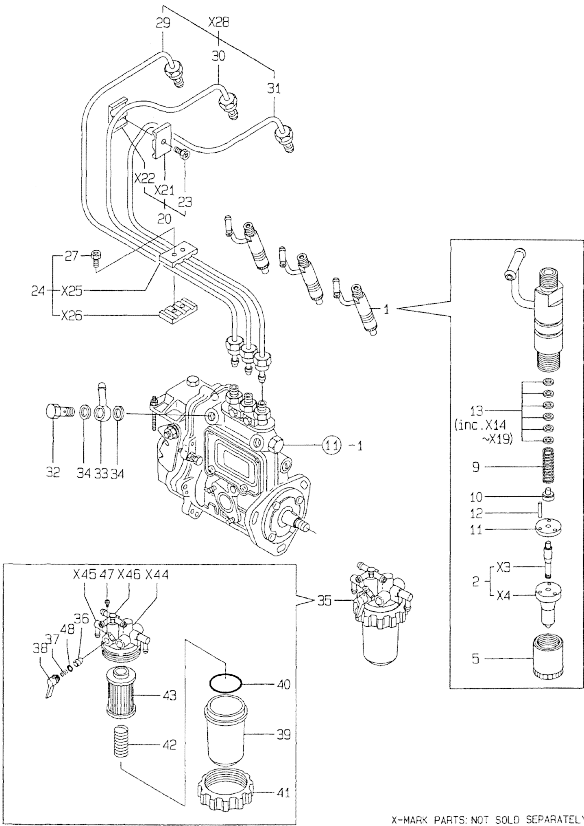
(A)=3TNE78A-ADCL
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-61280	O-RING, S6	1							
4	2	129052-61050	GASKET	1							
5	2	129052-61060	COVER, GOVERNOR CASE	1							
6	2	129052-61070	GASKET	1							
7	2	129155-61120	LINK, L=30 MARK 0	1							1
8	2	129155-61130	LINK, L=31 MARK 1	1							1
9	2	129155-61140	LINK, L=30.5 MARK 05	1							1
10	2	171488-61200	WEIGHT ASSY,GOVERNOR	1							
14	2	129155-61341	SLEEVE	1							
15	2	129100-61400	SHAFT ASSY	1							
18	2	129155-61430	SPACER	1							
22	2	129155-61450	BOLT, LIMITER	1							
23	2	129155-61460	BOLT, IDLE	1							
24	2	129155-61480	SPACER ASSY	2							
29	2	129052-61390	SHAFT	1							
30	2	129412-61500	LEVER ASSY, GOVERNOR	1							
31	3	174307-61700	SHIM SET	2							
45	3	119843-61540	SPRING, SET	1							
54	2	129155-61830	O-RING, S10	1							
55	2	119660-61901	RETAINER, SHAFT	1							
56	2	129155-61950	BOLT	1							
57	2	124550-66370	NUT, M6	1							
58	2	22117-040000	WASHER, 4	1							
59	2	22190-060002	WASHER, SEAL 6	1							
60	2	22190-100002	WASHER, SEAL 10	1							
61	2	22190-120002	WASHER, SEAL 12	2							
62	2	22287-120000	WASHER, 12	1							
63	2	22372-040000	PIN, SNAP 4	2							
64	2	23887-100002	PLUG, 10	1							
65	2	24341-000280	O-RING, 1AS28.0	1							
65-1	2	158552-61900	O-RING	1							N
(A=EXXXXX)											
66	2	26106-060102	BOLT, M6X 10 PLATED	1							
67	2	26106-060102	BOLT, M6X 10 PLATED	1							
68	2	26106-060102	BOLT, M6X 10 PLATED	4							
69	2	26106-060142	BOLT, M6X 14 PLATED	2							
70	2	26106-060202	BOLT, M6X 20 PLATED	6							
71	2	26756-060002	NUT, LOCK M6	1							
72	2	26776-120002	NUT, LOCK M12	2							
73	2	129100-61440	LEVER, CONTROL	1							
74	2	129155-61470	BOLT, CONTROL	1							
75	2	129500-61650	SPRING, FUEL CONTROL	1							
76	2	129477-61720	SPRING, GOVERNOR	1							
77	2	119285-77950	SOLENOID	1							
78	2	26366-080002	NUT, M8	1							
79	2	26687-120002	NUT, CAP M12	1							

Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE



X-MARK PARTS NOT SOLD SEPARATELY.

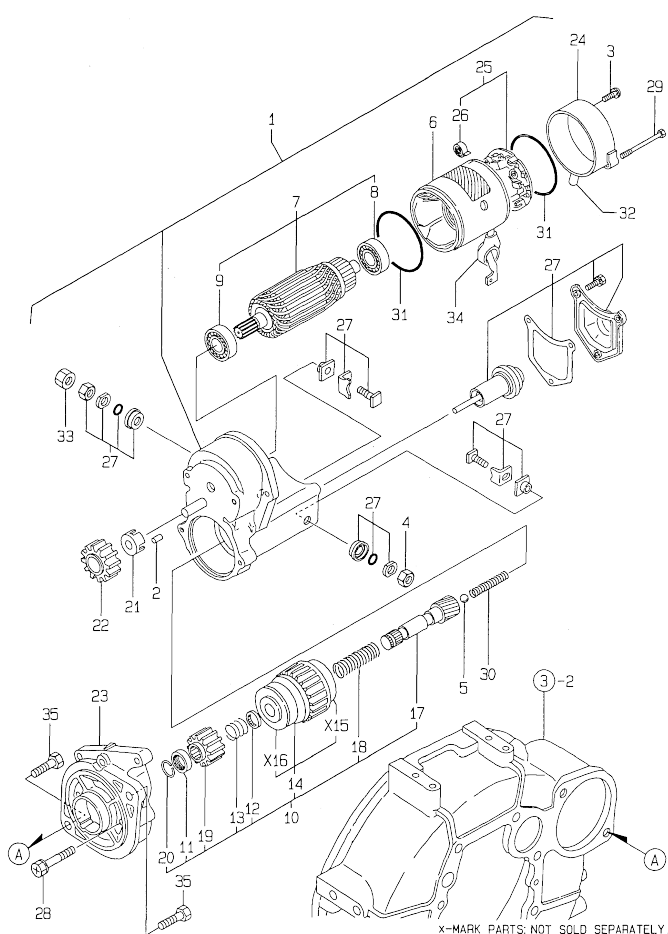
Remarks
(G) THESE PARTS ARE SOLD BY FIG.16,
REF.NO.1.
(M) MISPRINT.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719800-53100	VALVE ASSY,INJECTION	3							M
1-1	1	719818-53100	VALVE ASSY,INJECTION	3							
2	2	119818-53000	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	119305-59120	RETAINER, PIPE	1							
23	2	129150-59131	BOLT, M4X14	1							
24	1	129150-59120	RETAINER, PIPE	1							
27	2	129150-59131	BOLT, M4X14	2							
29	2	119813-59811	PIPE ASSY, INJECTION	1							
30	2	119813-59821	PIPE ASSY, INJECTION	1							
31	2	119813-59831	PIPE ASSY, INJECTION	1							
32	1	103854-39140	BOLT, PIPE JOINT	1							
33	1	101304-59020	JOINT, PIPE 12	1							
34	1	104200-59170	GASKET, 12	2							G
35	1	119810-55621	FILTER ASSY, FUEL	1							
36	2	104200-55321	VALVE, TAPER	1							
37	2	104200-55330	SPRING, VALVE	1							
38	2	119810-55340	LEVER	1							
39	2	121254-55510	COVER	1							
40	2	102103-55520	O-RING	1							
41	2	110250-55610	RING, RETAINING	1							
42	2	121250-55620	SPRING	1							
43	2	119810-55650	ELEMENT	1							
47	2	104200-55750	SCREW, M4	1							
48	2	24311-240100	O-RING, 1AP10A	1							

14. STARTING MOTOR

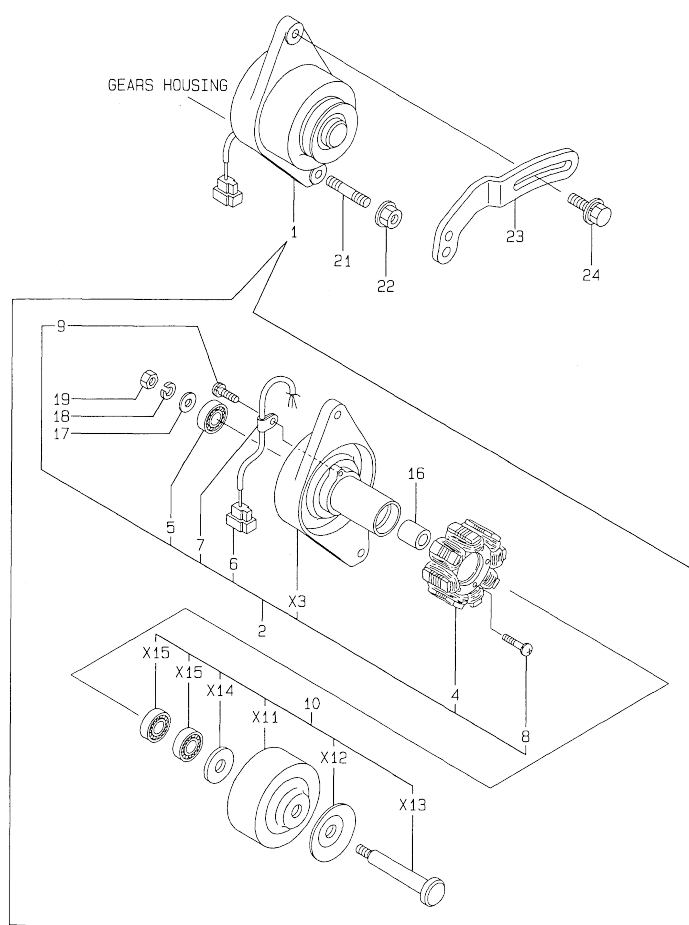


X-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129129-77010	STARTER ASSY	1							
2	2	X0283060061	ROLLER	5							
3	2	X0289030010	SCREW	2							
4	2	X9490561370	NUT	1							
5	2	X9491200240	BALL	1							
6	2	129129-77210	YOKE ASSY	1							
7	2	129129-77220	ARMATURE ASSY	1							
8	3	129129-77230	BEARING	1							
9	3	129129-77240	BEARING	1							
10	2	129129-77250	STARTER	1							
11	3	X0280210230	NUT	1							
12	3	X0283270140	RETAINER	1							
13	3	X9491703371	SPRING, COIL	1							
14	3	129129-77390	CLUTCH ASSY, STARTER	1							
17	3	129129-77400	SHAFT	1							
18	3	129129-77410	SPRING, COIL	1							
19	3	129129-77420	PINION	1							
20	3	129129-77430	RING	1							
21	2	129129-77260	RETAINER	1							
22	2	129129-77270	PINION	1							
23	2	129129-77280	HOUSING	1							
24	2	129129-77290	FRAME	1							
25	2	129129-77300	HOLDER ASSY	1							
26	3	X9491730461	SPRING	4							
27	2	129129-77310	SWITCH ASSY	1							
28	2	129129-77320	BOLT	2							
29	2	129129-77330	BOLT	2							
30	2	129129-77340	SPRING	1							
31	2	129129-77350	O-RING	2							
32	2	129129-77361	BUSH	1							
33	2	129129-77370	NUT	1							
34	2	129129-77380	CAP	1							
35	1	26116-120252	BOLT, M12X 25 PLATED	2							

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

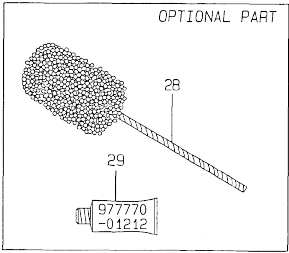
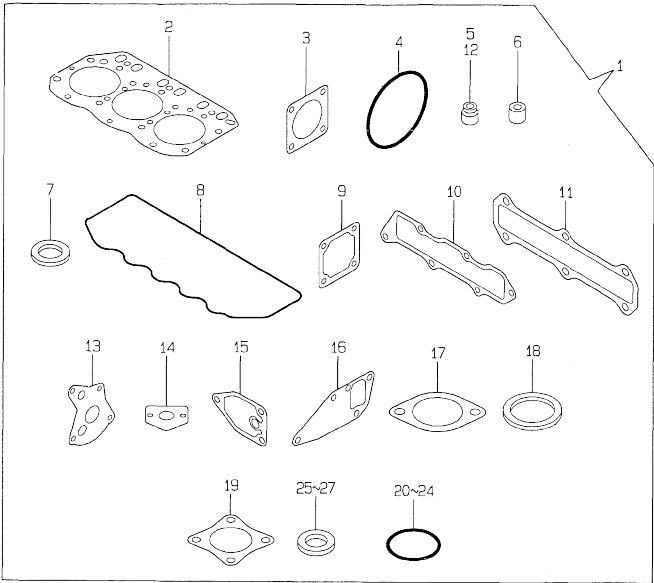
15. GENERATOR



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	171301-77201	DYNAMO ASSY, 15A	1							
2	2	XM08137	PLATE ASSY	1							
4	3	XM08180	STATOR ASSY	1							
5	3	XM27436	BALL BEARING	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	121450-01570	STUD	1							
22	1	26366-100002	NUT, M10	1							
23	1	119810-77330	ADJUSTER	1							
24	1	26014-080252	BOLT, M8X 25	1							

Fig.16. GASKET SET

16.GASKET SET



Remarks
(1) OPTIONAL PART.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719989-92600	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	119625-11871	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	119813-12110	GASKET, MANIFOLD	1							
11	2	119813-13110	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	129150-49811	GASKET, THERMOSTAT	1							
19	2	121000-13201	GASKET, SILENCER	1							
20	2	24311-000120	O-RING, 1AP12.0	3							
21	2	24311-000160	O-RING, 1AP16.0	3							
22	2	24311-000320	O-RING, 1AP32.0	1							
23	2	24341-000500	O-RING, 1AS50.0	1							
24	2	24341-000240	O-RING, 1AS24.0	1							
25	2	23414-100000	GASKET, 10X1.0	2							
26	2	124465-44950	GASKET, 16	2							
27	2	104200-59170	GASKET, 12	2							
28	1	129400-92420	FLEX HORN	1							1
29	1	977770-01212	GASKET, LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	13	33
102103-55520	13	40
103854-39140	13	32
104200-55321	13	36
104200-55330	13	37
104200-55750	13	47
104200-59170	13	34
	16	27
104211-11180	4	14
104211-11370	4	18
106383-44720	15	16
106383-44730	15	17
110250-55610	13	41
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119259-44570	10	34
119285-77950	12	77
119305-59120	13	20
119358-13640	6	11
119600-34800	9	39
119620-01750	3	3
119620-02020	1	12
119620-13501	6	6
119620-13510	6	7
119620-13520	6	8
119620-13560	6	9
119620-49290	10	26
119625-11871	4	32
	16	6
119625-11880	4	33
	16	7
119625-11900	4	34
119640-01640	3	8
119660-61901	12	55
119808-12520	5	7 -1
119808-12530	5	8 -1
119808-12540	5	9 -1
119810-01200	1	21
119810-01730	3	6
119810-01770	3	7
119810-01780	3	16
119810-02800	1	15
119810-02870	1	23
119810-02930	1	18
119810-02940	1	26
119810-11100	4	11

Parts No.	Fig. No.	Ref. No.
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119810-23610	8	30
119810-23910	8	26
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119810-42001	10	1
119810-51040	11	5
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119818-22080	8	15
119818-22500	8	17
119818-22900	8	32
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119818-53000	13	2
119820-44500	10	33
119820-44560	10	35
119831-42290	10	17
119843-61540	12	45
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124550-51370	11	31
124550-59820	9	33
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124700-44740	10	19
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124950-51190	11	15
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129001-35300	9	24
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129052-61060	12	5
129052-61070	12	6
129052-61390	12	29
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129129-77230	14	8
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129129-77250	14	10
129129-77260	14	21
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129150-03090	4	1
129150-03100	2	10
129150-11230	4	28
129150-11280	4	26
129150-11750	4	30
129150-14101	7	6
129150-14200	7	1
129150-21200	8	4
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129155-51320	11	28
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27241-120000	1	8
27241-300000	1	9
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719800-53100	13	1
719810-01500	2	1
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719810-11520	4	38
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