

0CV10-M16600EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A-HP engine manufactured since December, 1993.
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 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 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 $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	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.

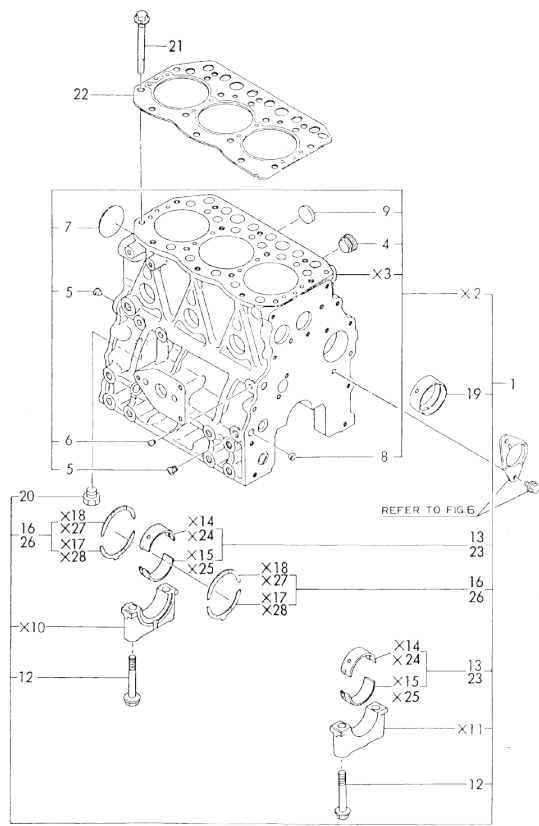
Contents

0CV10-M16600

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-HP			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION & EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB. OIL SYSTEM		
9.	COOLING WATER SYSTEM		
10.	FUEL INJECTION PUMP		
11.	FUEL INJECTION LINE		
12.	FUEL LINE		
13.	GOVERNOR		
14.	STARTING MOTOR		
15.	GENERATOR		

Fig.1. CYLINDER BLOCK

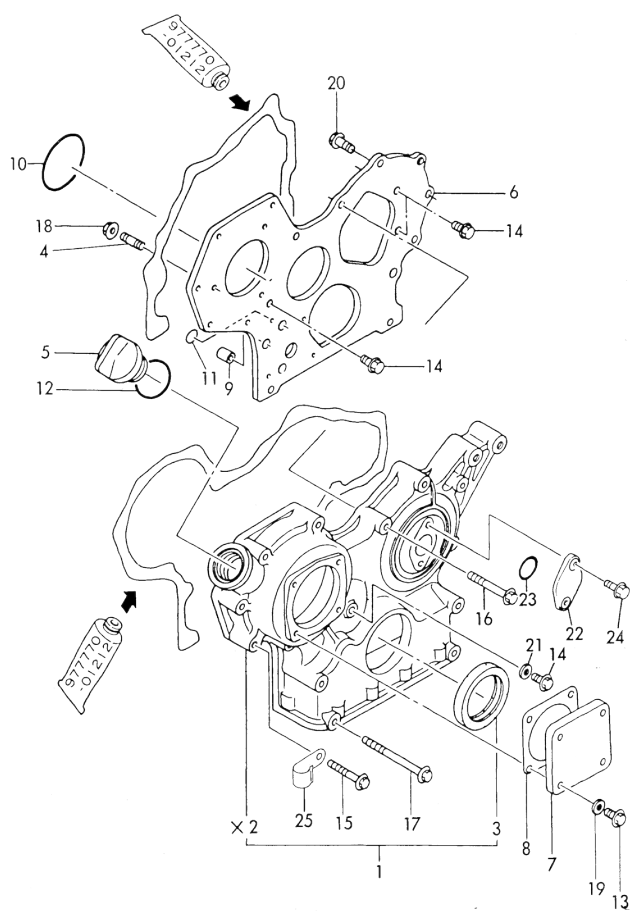
Fig.1 CYLINDER BLOCK



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

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	171051-01921	PLUG, NPTF1	1							
5	3	124160-01910	PLUG, PT1/4	2							
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	2	119620-02020	BOLT, METAL CAP	8							
13	2	119810-02800	BEARING, MAIN	4							
16	2	119810-02930	BEARING, THRUST	2							
19	2	129795-02411	BUSH, CAMSHAFT	1							
20	2	23887-120002	PLUG, 12	1							
21	1	119810-01200	BOLT, HEAD	14							
22	1	119818-01370	GASKET, HEAD	1							M
22-1	1	119818-01330	GASKET, HEAD	1							
23	1	119810-02870	BEARING, 0.25 US	4							1
26	1	119810-02940	BEARING, THRUST 0.25	2							2

Fig. 2 GEAR HOUSING

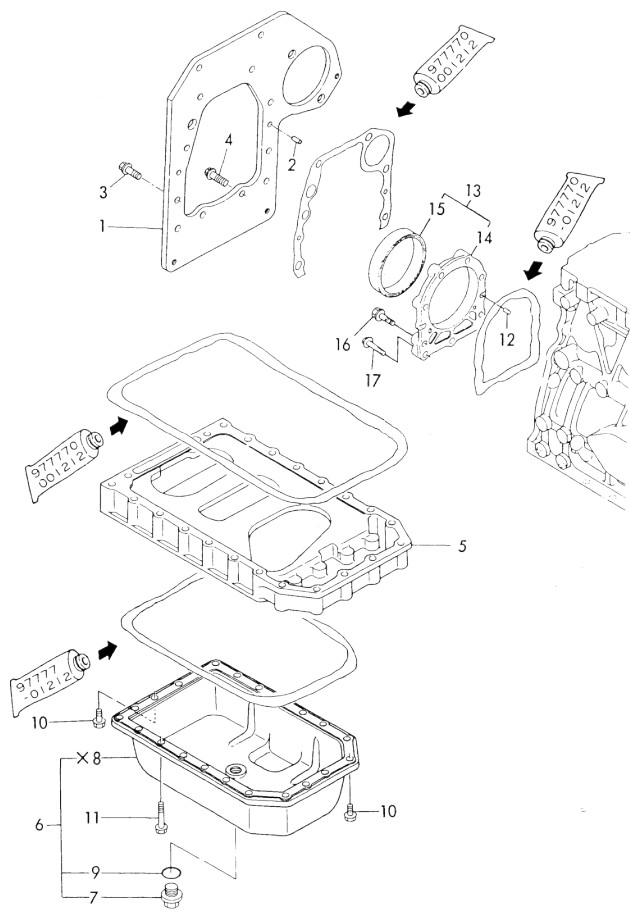


				(A)=3TNE78A-HP (B)= (C)=				(D)= (E)= (F)=			
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I	R
1	1	719810-01500	CASE ASSY, GEAR	1							
3	2	129795-01800	SEAL, OIL	1							
4	1	121450-01560	STUD, M8X22	3							
5	1	124160-01751	COVER, FILLER	1							
6	1	129400-01520	FLANGE, GEAR CASE	1							
7	1	124240-01871	COVER	1							
8	1	124240-01883	GASKET	1							
9	1	129795-01950	PIPE, KNOCK L=18	2							
10	1	121850-51960	O-RING	1							
11	1	24311-000160	O-RING, 1AP16.0	2							
12	1	24311-000320	O-RING, 1AP32.0	1							
13	1	26106-080122	BOLT, M8X 12 PLATED	4							
14	1	26106-080162	BOLT, M8X 16 PLATED	4							
15	1	26106-080452	BOLT, M8X 45 PLATED	6							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	26106-080852	BOLT, M8X 85 PLATED	4							
18	1	26366-080002	NUT, M8	3							
19	1	22190-080002	WASHER, SEAL 6	4							
20	1	26106-080202	BOLT, M8X 20 PLATED	2							
21	1	22190-080002	WASHER, SEAL 6	1							
22	1	121023-01550	COVER	1							
23	1	24341-000240	O-RING, 1AS24.0	1							
24	1	26106-060182	BOLT, M6X 18 PLATED	2							
25	1	129150-03100	RETAINER, PIPE	1							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.3. FLYWHEEL HOUSING & OIL SUMP

Fig.3 FLYWHEEL HOUSING & LUB. OIL SUMP



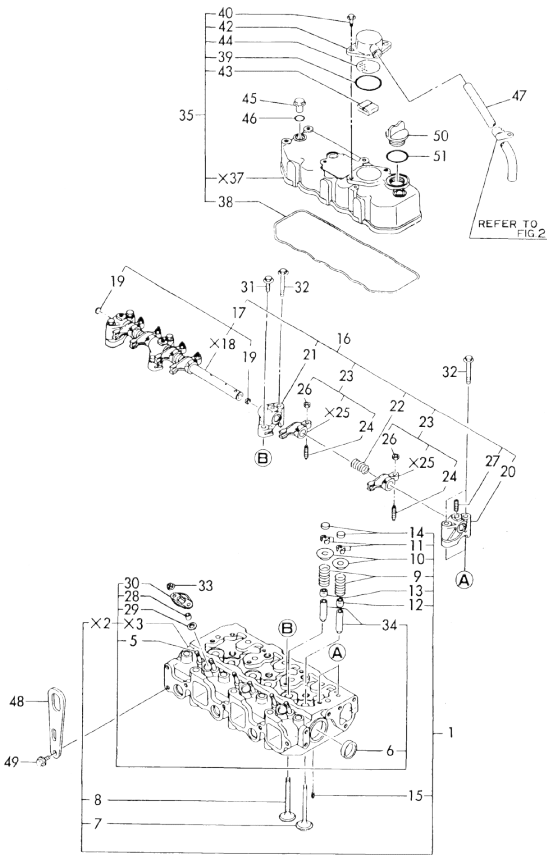
(A)=3TNE78A-HP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119885-01600	PLATE	1							
2	1	129100-01580	PIN, M8X16	2							
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							
14	2	119860-01650	CASE, OIL SEAL	1							
15	2	119810-01780	SEAL, 769310	1							
16	1	26106-080302	BOLT, M8X 30 PLATED	6							
17	1	26106-080352	BOLT, M8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET

Fig.4 CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

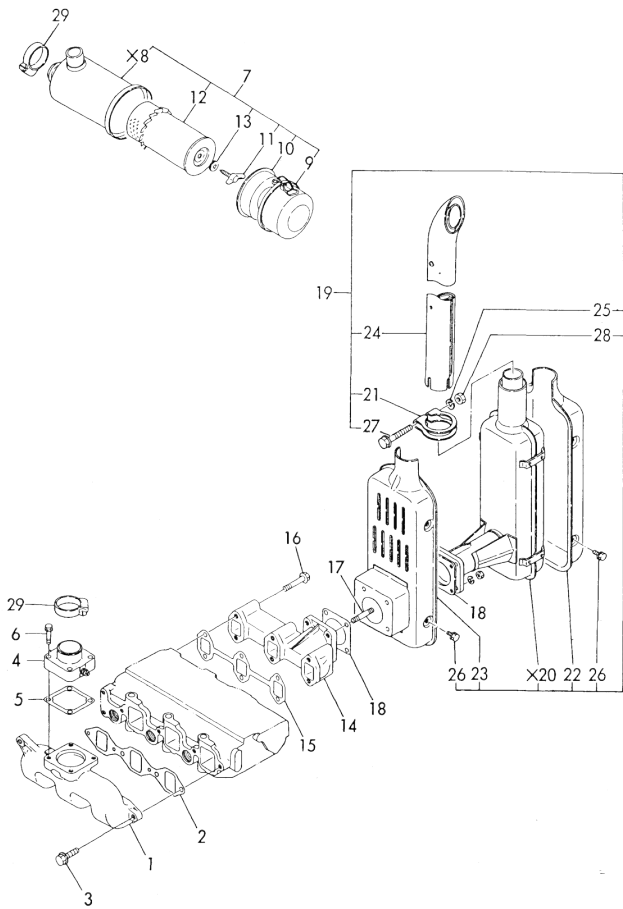
(A)=3TNE78A-HP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119812-11700	HEAD ASSY, CYLINDER	1							
5	3	26216-060302	STUD, M6X 30	6							
6	3	27241-400000	PLUG, 40	2							
7	2	119810-11100	VALVE, INTAKE	3							
8	2	119810-11110	VALVE, EXHAUST	3							
9	2	119810-11120	SPRING, VALVE	6							
10	2	104211-11180	RETAINER, SPRING	6							
11	2	101158-11190	COTTER	6							
12	2	124160-11340	SEAL, VALVE STEM	3							
13	2	124950-11340	SEAL, VALVE STEM	3							
14	2	104211-11370	CAP, VALVE	6							
15	2	22351-060012	PIN, SPRING 6.0X12	2							
16	1	119865-11200	SUPPORT ASSY, ARM	1							
17	2	119810-11240	SHAFT ASSY, ROCKER	1							
19	3	27241-100000	PLUG, 10	2							
20	2	129155-11260	SUPPORT, ROCKER ARM	2							
21	2	129155-11270	SUPPORT, ROCKER ARM	2							
22	2	129150-11280	SPRING	3							
23	2	719810-11650	ARM ASSY, ROCKER	6							
24	3	129150-11230	SCREW, VALVE ADJUST	6							
26	3	129150-11750	NUT, M8	6							
27	2	26226-080182	STUD, M8X 18	3							
28	2	119625-11870	PROTECTOR, NOZZLE	3							
29	2	119625-11880	SEAT, NOZZLE	3							
30	2	119625-11900	RETAINER, NOZZLE	3							
31	1	26106-080252	BOLT, M8X 25 PLATED	2							
32	1	26106-080502	BOLT, M8X 50 PLATED	6							
33	1	26366-060002	NUT, M6	6							
34	1	124060-11800	GUIDE, VALVE	6							1
35	1	719810-11520	BONNET ASSY, HEAD	1							
38	2	119865-11310	GASKET, BONNET	1							
39	2	24341-000500	O-RING, 1AS50.0	1							
40	2	26106-080162	BOLT, M8X 16 PLATED	2							
42	2	129150-03020	COVER, BREATHER	1							
43	2	129150-03070	BAFFLE, BREATHER	1							
44	2	129150-03080	PLATE, BAFFLE	1							
45	1	124160-11360	KNOB	3							
46	1	24311-000120	O-RING, 1AP12.0	3							
47	1	129150-03090	HOSE, ID16X2T	1							
48	1	124736-07900	LIFTER	1							
49	1	26106-080142	BOLT, M8X 14 PLATED	2							
50	1	124160-01751	COVER, FILLER	1							
51	1	24311-000320	O-RING, 1AP32.0	1							

Fig.5. SUCTION & EXHAUST MANIFOLD

Fig.5 SUCTION & EXHAUST MANIFOLD

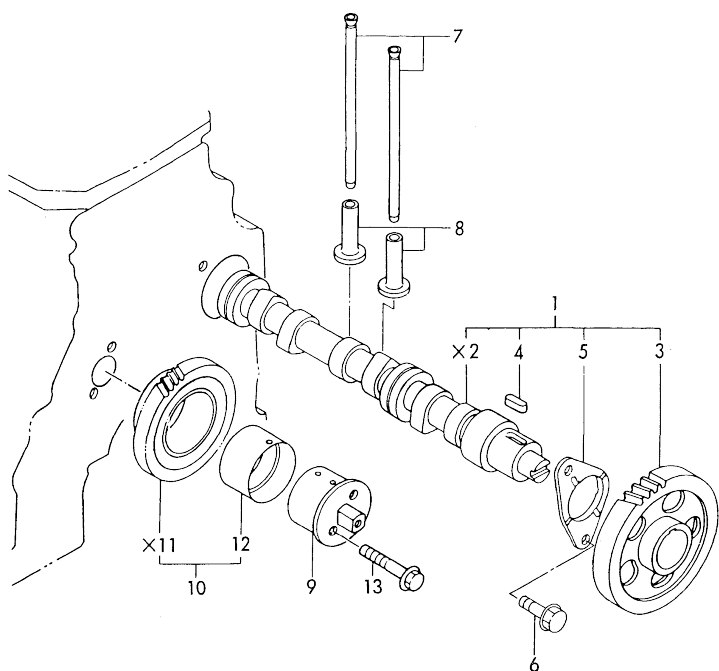


(A)=3TNE78A-HP
(B)=
(C)=

(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							
9	2	121120-12531	PAN, DUST	1							
10	2	121120-12541	RETAINER, ELEMENT	1							
11	2	121120-12561	BOLT	1							
12	2	121120-12901	ELEMENT	1							
13	2	121120-12571	WASHER, SEAL	1							
14	1	119810-13100	MANIFOLD, EXHAUST	1							
15	1	119810-13110	GASKET	1							
16	1	26106-080602	BOLT, M8X 60 PLATED	6							
17	1	26216-080222	STUD, M8X 22	4							
18	1	124701-11911	GASKET, SILENCER	2							
19	1	121183-13490	SILENCER ASSY	1							
21	2	121470-13580	CLAMP	1							
22	2	121470-13610	COVER, SILENCER	1							
23	2	121470-13620	COVER, SILENCER	1							
24	2	121454-13650	PIPE	1							
25	2	22217-100000	WASHER, SPRING 10	1							
26	2	26013-060089	BOLT, M6X 8	8							
27	2	26106-100652	BOLT, M10X 65 PLATED	1							
28	2	26706-100002	NUT, M10	1							
29	1	23000-060000	CLAMP, 60	2							

Fig. 6 CAMSHAFT & DRIVING GEAR



OCV10-M16600 Fig.6

(A)=3TNE78A-HP

(B)=

(C)=

(D)=

(E)=

(F)=

Q'ty

I R

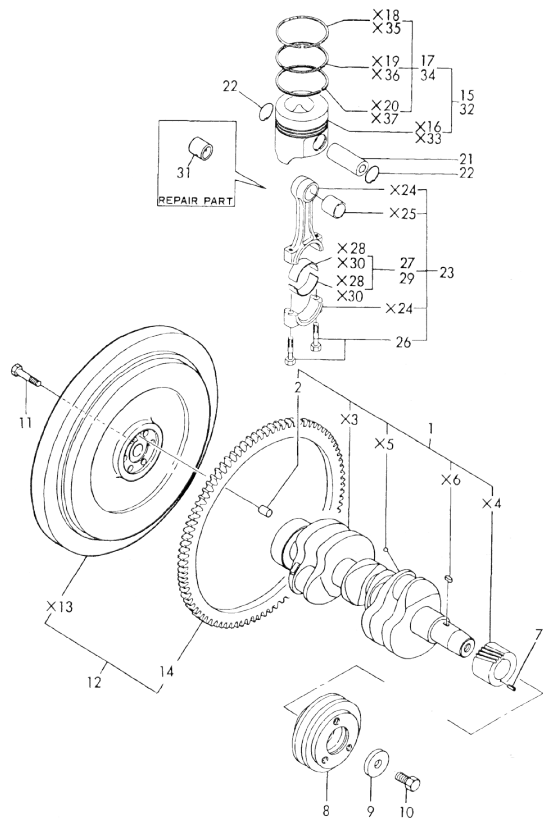
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	119810-14580	CAMSHAFT ASSY	1					
3	2	129150-14101	GEAR, CAMSHAFT	1					
4	2	22512-070140	KEY, 7X 14	1					
5	2	129150-02450	BEARING, THRUST	1					
6	1	26106-080162	BOLT, M8X 16 PLATED	2					
7	1	119810-14400	ROD, PUSH	6					
8	1	129150-14200	TAPPET	6					
9	1	129100-25061	SHAFT, IDLE	1					
10	1	129150-25101	GEAR ASSY, IDLE	1					
12	2	129150-25061	BUSH, IDLE GEAR	1					
13	1	26106-080452	BOLT, M8X 45 PLATED	2					

N:Old $\xrightarrow{\frac{YES}{NO}}$ New, Q:Old $\xrightarrow{\frac{YES}{YES}}$ New, R:Old $\xrightarrow{\frac{YES}{YES}}$ New, S:Old $\xrightarrow{\frac{NO}{YES}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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0CV10-M16600 3TNE78A-HP
Fig.7. CRANKSHAFT & PISTON

Fig.7 CRANKSHAFT & PISTON

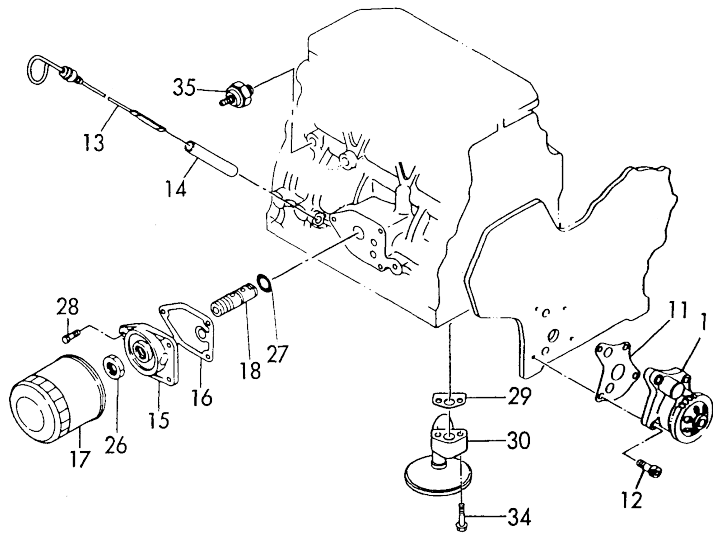


Remarks
(1) UNDER-SIZED(U.S=0.25) PART.
(2) REPAIR PART.
(3) OVER-SIZED(O.S=0.25) PART.

				0CV10-M16600 Fig.7							
				(A)=3TNE78A-HP				(D)=			
				(B)=				(E)=			
				(C)=				(F)=			
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	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	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	119810-23200	BOLT, CONNECTING ROD	6							
27	2	119810-23600	BEARING, CRANK PIN	3							
29	1	119810-23610	BEARING, 0.25 US	3							1
31	1	119810-23910	BEARING, PISTON PIN	3							2
32	1	119818-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119818-22950	RING SET, 0.25 OS	3							3

Fig.8. LUB. OIL SYSTEM

Fig.8 LUB. OIL SYSTEM



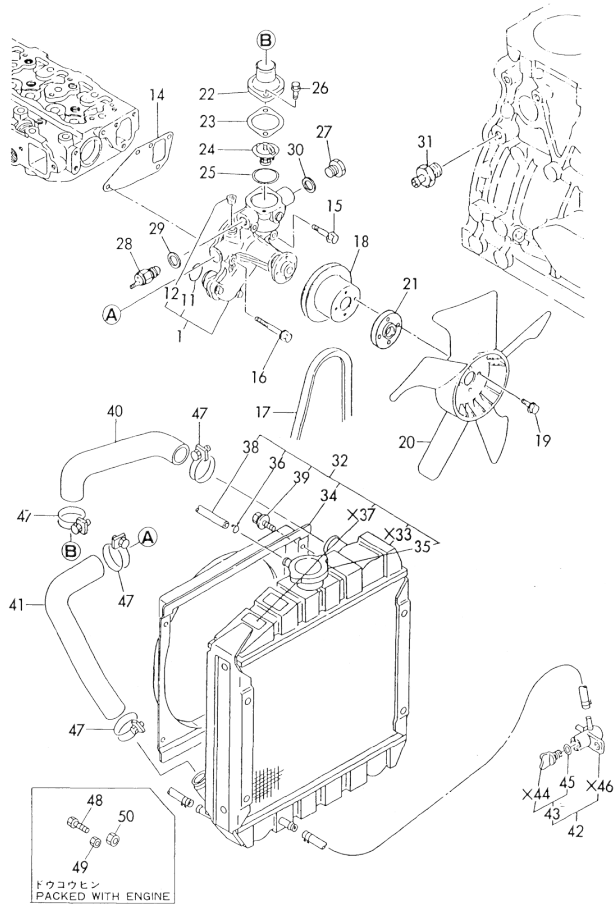
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-32000	PUMP ASSY, OIL	1							
1-1	1	129001-32001	PUMP ASSY, OIL	1							N
(A=E00198)											
11	1	129150-32020	GASKET, PUMP	1							
12	1	26450-060252	BOLT, M6X 25	4							
13	1	119631-34800	DIPSTICK, OIL	1							
14	1	121520-34810	GUIDE, DIPSTICK	1							
15	1	129150-35101	BRACKET, STRAINER	1							
16	1	129150-35111	GASKET	1							
17	1	129150-35151	FILTER, D80XL80	1							
18	1	119865-35300	VALVE ASSY, CONTROL	1							
18-1	1	129001-35300	BOLT, FILTER	1							S
(A=E00198)											
26	1	129150-35350	NUT	1							
27	1	24311-000160	O-RING, 1AP16.0	1							
28	1	26106-080202	BOLT, M8X 20 PLATED	3							
29	1	129150-35041	GASKET	1							
30	1	119810-35400	PIPE ASSY, OIL INLET	1							
34	1	26106-080352	BOLT, M8X 35 PLATED	2							
35	1	124160-39450	SWITCH, 0.5KG	1							

Fig.9. COOLING WATER SYSTEM

Fig.9 COOLING WATER SYSTEM



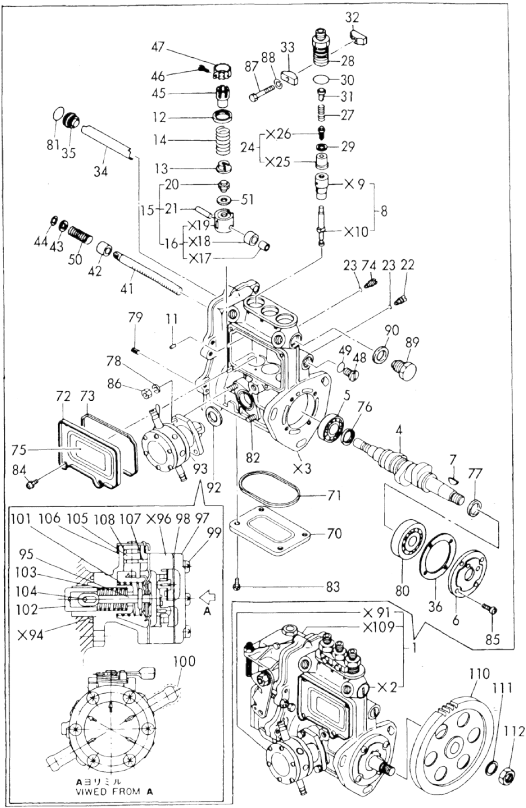
(A)=3TNE78A-HP
(B)=
(C)=

(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							
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	121236-42290	V-BELT, A39	1							
18	1	129403-42380	V-PULLEY, D=110	1							
19	1	26014-060252	BOLT, M6X 25	4							
20	1	129335-44740	FAN, COOLING D335	1							
21	1	124574-44761	SPACER, FAN	1							
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	26106-080202	BOLT, M8X 20 PLATED	2							
27	1	121450-42450	PLUG, M16	1							
28	1	121250-44901	SWITCH, 110	1							
29	1	124465-44950	GASKET, 16	1							
30	1	124465-44950	GASKET, 16	1							
31	1	121550-49111	JOINT, PT1/4	1							
32	1	119859-44500	RADIATOR	1							
34	2	119859-44540	SHROUD	1							
35	2	119259-44570	CAP, RADIATOR	1							
36	2	121250-44590	CLAMP	2							
38	2	124323-59100	PIPE, FUEL D12X600	1							
39	2	26014-060122	BOLT, M6X 12	4							
40	1	119859-49010	PIPE, WATER	1							
41	1	119859-49020	PIPE, WATER	1							
42	1	129150-49100	COCK ASSY, 3-WAY	1							
43	2	129150-49080	COCK, DRAIN	1							
45	3	119629-49080	GASKET	1							
47	1	23010-038000	CLAMP, 38	4							
48	1	26116-040128	BOLT, M4X 12 PLATED	1							
49	1	26756-040002	NUT, LOCK M4	1							
50	1	26756-080002	NUT, LOCK M8	1							

Fig.10. FUEL INJECTION PUMP

Fig.10 FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.14) IS INCORPORATED IN THIS FUEL INJECTION PUMP ASSY(REF.NO.1,P/# 719988-51340).
(2) INCLUDED IN FIG.16.

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

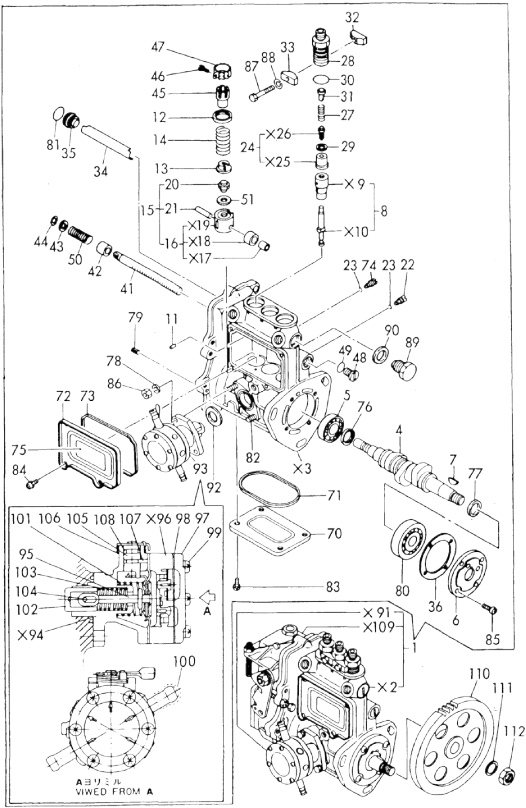
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719988-51360	PUMP ASSY, INJECTION	1							1
4	3	119810-51040	CAMSHAFT	1							
5	3	129155-51050	BEARING, 17BM001D	1							
6	3	129155-51060	SUPPORT, CAMSHAFT	1							
7	3	122710-51090	KEY	1							
8	3	129108-51100	PLUNGER ASSY	3							
11	3	129155-51140	PIN	3							
12	3	174307-51170	RETAINER, SPRING A	3							
13	3	129155-51180	RETAINER, SPRING	3							
14	3	124950-51190	SPRING, PLUNGER	3							
15	3	129155-51200	TAPPET ASSY	3							
16	4	711100-51540	ROLLER ASSY	3							
20	4	129155-51250	BOLT, ADJUSTING	3							
21	4	174100-54120	PIN	3							
22	3	129155-51270	STOPPER, TAPPET	3							
23	3	129155-51280	O-RING, S6	3							
24	3	129100-51300	VALVE ASSY, DELIVERY	3							
27	3	129155-51320	SPRING, DELIVERY	3							
28	3	129155-51340	RETAINER	3							
29	3	124550-51350	GASKET, DELIVERY	3							
30	3	124550-51370	O-RING	3							
31	3	129155-51370	STOPPER, VALVE	3							
32	3	129155-51380	STOPPER	2							
33	3	129155-51390	STOPPER	2							
34	3	129155-51400	DEFLECTOR	1							
35	3	129155-51410	BOLT	1							
36	3	129155-51450	SHIM SET, ADJUSTING	1							
41	3	129155-51500	RACK, CONTROL	1							
42	3	129155-51521	BUSH, RACK	1							
43	3	129155-51530	SPACER	1							
44	3	129155-51540	CIRCLIP	1							
45	3	129155-51550	PINION, CONTROL	3							
46	3	122117-51560	SCREW	3							
47	3	174307-51560	PINION	3							
48	3	129155-51570	PLUG, M12	1							
49	3	129155-51580	O-RING	1							
50	3	129155-51591	SPRING, RACK	1							
51	3	129155-51600	SHIM SET, ADJUSTING	3							
70	3	129155-51700	COVER	1							
71	3	129155-51710	GASKET	1							
72	3	129155-51750	COVER	1							
73	3	129155-51760	GASKET	1							
74	3	129155-51790	STOOPER, RACK	1							
75	3	129156-51910	LABEL, CAUTION	1							
76	3	129155-51930	SPACER, T=3.25	1							
77	3	129155-51940	SPACER, T=1.5	1							
78	3	22217-060000	WASHER, SPRING 6	2							
79	3	22351-050010	PIN, SPRING 5.0X10	2							
80	3	24101-063034	BEARING, BALL 6303	1							
81	3	24341-000160	O-RING, 1AS16.0	1							
82	3	129155-51020	STUD	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
++ CONTINUE ++
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Fig.10. FUEL INJECTION PUMP

Fig.10 FUEL INJECTION PUMP



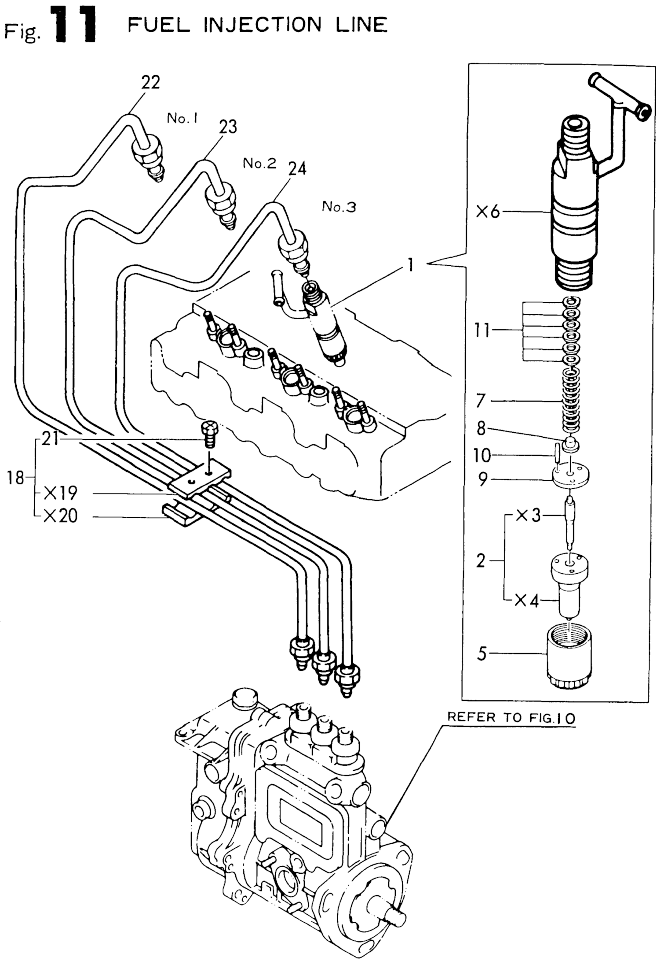
Remarks
(1) GOVERNOR ASSY(FIG.14) IS INCORPORATED IN THIS FUEL INJECTION PUMP ASSY(REF.NO.1,P# 719988-51340).
(2) INCLUDED IN FIG.16.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
83	3	26022-050102	SCREW, M5X10	4							
84	3	26022-050102	SCREW, M5X10	4							
85	3	26022-060162	SCREW, M6X16	4							
86	3	26716-060002	NUT, M6	2							
87	3	26116-050302	BOLT, M5X 30 PLATED	2							
88	3	22217-050000	WASHER, SPRING 5	2							
89	3	129155-51420	PLUG, M16	1							
90	3	22190-160002	WASHER, SEAL 16	1							
92	3	129155-52050	GASKET	1							
93	3	129100-52100	PUMP ASSY, FUEL FEED	1							
95	4	129158-52020	DIAPHRAGM	1							
97	4	129158-52060	COVER	1							
98	4	129158-52070	GASKET	1							
99	4	129158-52080	SCREW	6							
100	4	129158-52090	CAP	2							
101	4	129158-52160	SPRING	1							
102	4	129158-52250	TAPPET	1							
103	4	129158-52260	SPRING	1							
104	4	129158-52270	PIN	1							
105	4	129158-52350	LEVER	1							
106	4	129158-52360	SPRING, RETURN	1							
107	4	129158-52370	PIN	1							
108	4	129158-52380	O-RING	1							
110	1	129150-25900	GEAR, PUMP	1							
111	1	22217-120000	WASHER, SPRING 12	1							
112	1	26716-120002	NUT, M12	1							

Fig.11. FUEL INJECTION LINE



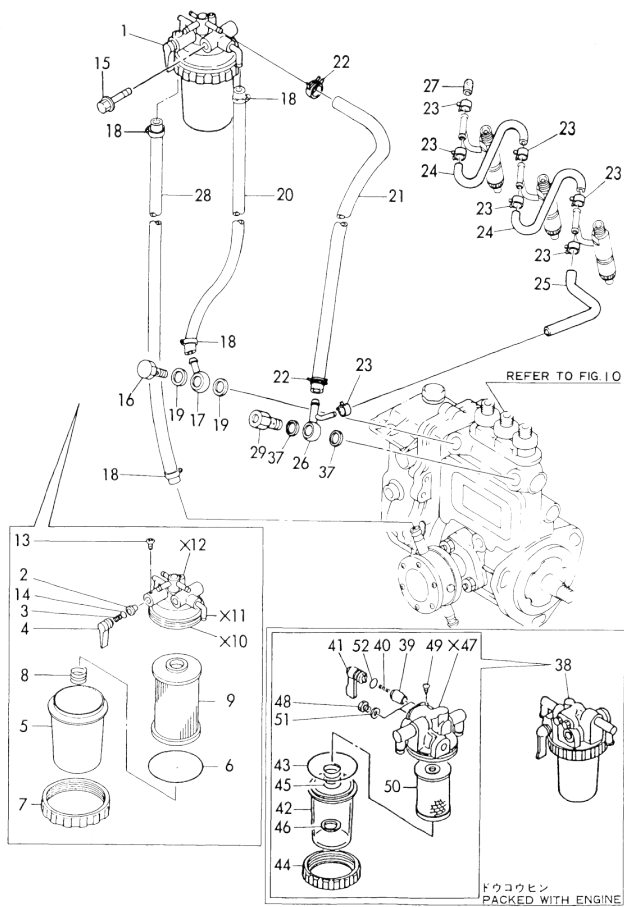
(A)=3TNE78A-HP
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729500-53200	VALVE ASSY,INJECTION	3							
2	2	129500-53050	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
7	2	114250-53120	SPRING, NOZZLE	3							
8	2	114250-53130	SEAT, SPRING	3							
9	2	114250-53140	PLATE	3							
10	2	114250-53210	PIN	6							
11	2	114250-53400	SHIM SET	3							
18	1	129150-59120	RETAINER, PIPE	1							
21	2	129150-59130	BOLT, M4X12	2							
22	2	119810-59810	PIPE ASSY, INJECTION	1							
23	2	119810-59820	PIPE ASSY, INJECTION	1							
24	2	119810-59830	PIPE ASSY, INJECTION	1							

Fig.12. FUEL LINE

Fig.12 FUEL LINE



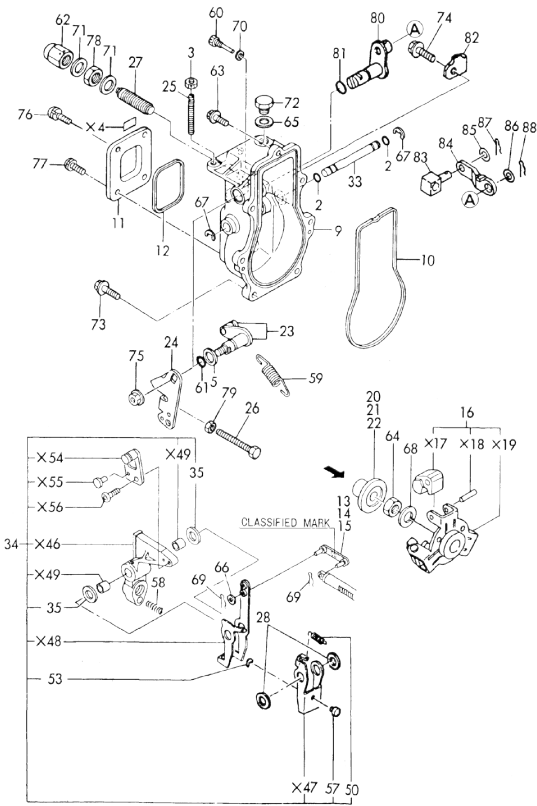
(A)=3TNE78A-HP
(B)=
(C)=

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

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	26014-080702	BOLT, M8X 70	1							
16	1	103854-39140	BOLT, PIPE JOINT	1							
17	1	101304-59020	JOINT, PIPE 12	1							
18	1	124766-59050	CLIP, HOSE 12	4							
19	1	104200-59170	GASKET, 12	2							
20	1	129555-59510	PIPE, D13/7.5X180	1							
21	1	105025-59750	PIPE, FUEL	1							
22	1	124766-59050	CLIP, HOSE 12	2							
23	1	124066-59100	CLIP, HOSE 8	7							
24	1	121250-59550	PIPE, FUEL D8X120	2							
25	1	119840-59560	PIPE, FUEL RETURN	1							
26	1	119840-59570	JOINT	1							
27	1	129150-59580	CAP	1							
28	1	105025-59750	PIPE, FUEL	1							
29	1	129100-59951	VALVE ASSY, CHECK	1							
37	1	23414-120000	GASKET, 12X1.0	2							
38	1	129335-55700	SEPARATOR ASSY, WATER	1							
39	2	104200-55321	VALVE, TAPER	1							
40	2	104200-55330	SPRING, VALVE	1							
41	2	104200-55341	HANDLE	1							
42	2	124064-55510	COVER	1							
43	2	102103-55520	O-RING	1							
44	2	110250-55610	RING, RETAINING	1							
45	2	121257-55720	SPRING	1							
46	2	121257-55731	FLOAT	1							
48	2	101720-55750	PLUG, 6	2							
49	2	104200-55750	SCREW, M4	1							
50	2	171081-55910	SCREEN	1							
51	2	23418-060000	GASKET, 6X1.0	2							
52	2	24311-240100	O-RING, 1AP10A	1							

Fig.13. GOVERNOR

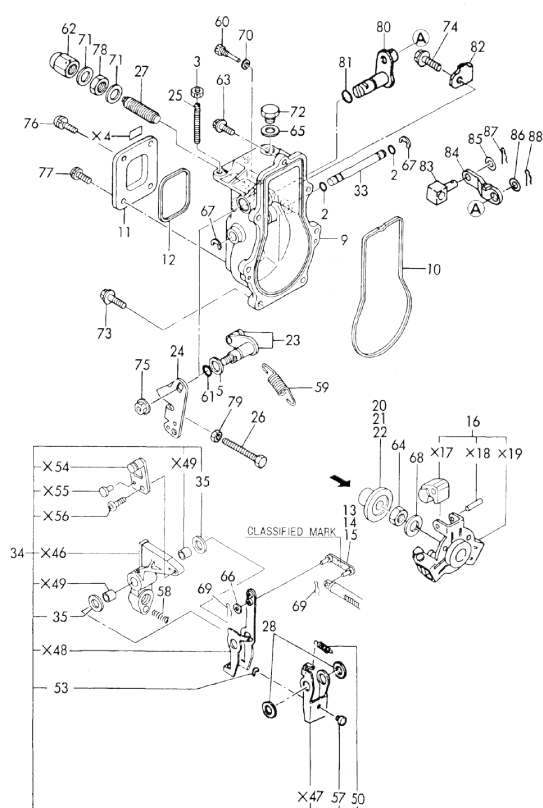
Fig.13 GOVERNOR



Remarks
(1) SELECTIVE PARTS : CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER. (ILLUSTRATION)
(2) SELECTIVE PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-61280	O-RING, S6	2							
3	2	124550-66370	NUT, M6	1							
5	2	129155-61430	SPACER	1							
9	2	129155-61012	CASE, GOVERNOR	1							
10	2	129155-61050	GASKET	1							
11	2	129155-61060	COVER, GOVERNOR CASE	1							
12	2	129155-61070	GASKET	1							
13	2	129155-61120	LINK, L=30 MARK 0	1							1
14	2	129155-61130	LINK, L=31 MARK 1	1							1
15	2	129155-61140	LINK, L=30.5 MARK 05	1							1
16	2	129155-61201	WEIGHT ASSY,GOVERNOR	1							
20	2	129155-61341	SLEEVE	1							2
21	2	129155-61350	SLEEVE, L=24.9	1							2
22	2	129155-61360	SLEEVE, L=25.2	1							2
23	2	129100-61400	SHAFT ASSY	1							
24	2	129100-61440	LEVER, CONTROL	1							
25	2	129155-61450	BOLT, LIMITER	1							
26	2	129155-61460	BOLT, IDLE	1							
27	2	129155-61470	BOLT, CONTROL	1							
28	2	129155-61480	SPACER ASSY	2							
33	2	129155-61490	SHAFT	1							
34	2	119843-61500	LEVER ASSY, GOVERNOR	1							
35	3	174307-51700	SHIM SET	2							
50	3	119843-61540	SPRING, SET	1							
57	3	129155-61540	SHIFTER	1							
58	2	129100-61650	SPRING, CONTROLLER	1							
59	2	171353-61700	SPRING, GOVERNOR	1							
60	2	129155-61810	PIN	1							
61	2	129155-61830	O-RING, S10	1							
62	2	26687-120002	NUT, CAP M12	1							
63	2	129155-61950	BOLT	1							
64	2	26776-120002	NUT, LOCK M12	1							
65	2	22190-100002	WASHER, SEAL 10	1							
66	2	22117-040000	WASHER, 4	1							
67	2	22272-000060	RING, E- 6	2							
68	2	22287-120000	WASHER, 12	1							
69	2	22372-040000	PIN, SNAP 4	2							
70	2	22190-060002	WASHER, SEAL 6	1							
71	2	22190-120002	WASHER, SEAL 12	2							
72	2	23887-100002	PLUG, 10	1							
73	2	26106-060202	BOLT, M6X 20 PLATED	5							
74	2	26106-060252	BOLT, M6X 25 PLATED	1							
75	2	26366-080002	NUT, M8	1							
76	2	26022-050102	SCREW, M5X10	2							
77	2	26023-050102	SCREW, M5X10	2							
78	2	26776-120002	NUT, LOCK M12	1							
79	2	26756-060002	NUT, LOCK M6	1							
80	2	129129-61801	LEVER ASSY, STOP	1							
81	2	24311-240100	O-RING, 1AP10A	1							
82	2	129116-61890	SUPPORT	1							
83	1	119620-66820	JOINT	1							

Fig. 13 GOVERNOR



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

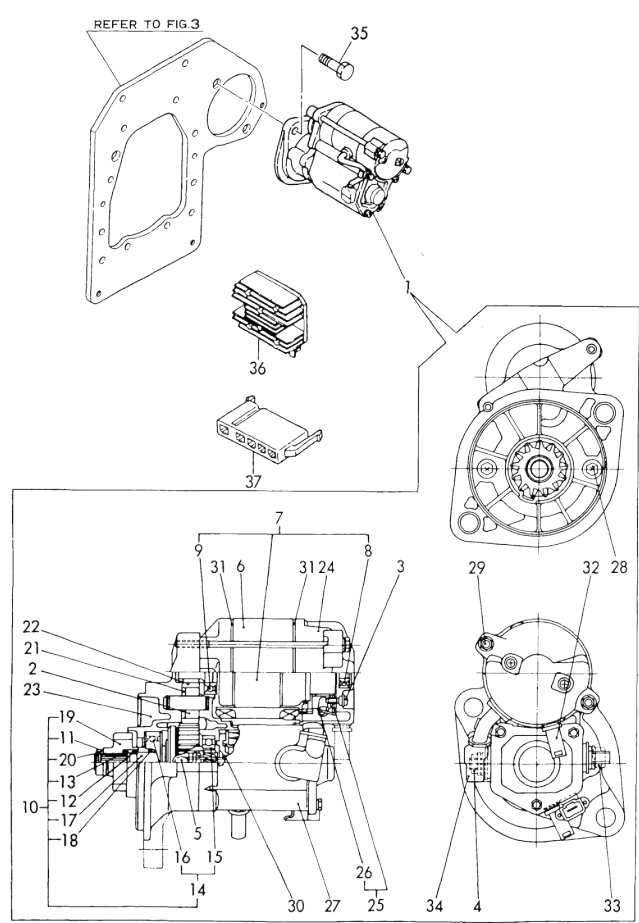
(2) SELECTIVE PART.

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
84	1	129129-66860	LINK, SOLENOID	1							
85	1	22117-060000	WASHER, 6	1							
86	1	22117-080000	WASHER, 8	1							
87	1	22360-060000	PIN, SNAP 6	1							
88	1	22360-080000	SNAP PIN 8	1							

Fig.14. STARTING MOTOR

Fig.14 STARTING MOTOR



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

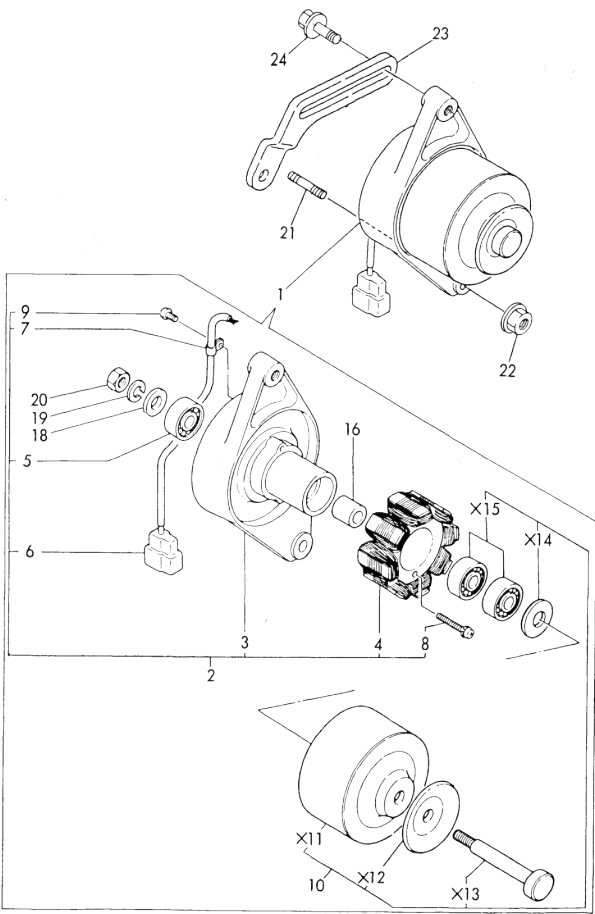
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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							
15	4	129129-77440	BEARING	1							
16	4	129129-77450	BEARING	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	129129-77360	BUSH, DRAIN	1							
33	2	129129-77370	NUT	1							
34	2	129129-77380	CAP	1							
35	1	26116-120252	BOLT, M12X 25 PLATED	2							
36	1	119660-77710	LIMITER, CURRENT 15A	1							
37	1	171301-77720	COUPLER	1							
38	1	119643-77900	CONNECTOR, STARTER	1							W

(A=E00177)

Fig.15. GENERATOR

Fig.15 GENERATOR



(A)=3TNE78A-HP
(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							
3	3	XM08138	PLATE	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							
18	2	106383-44730	WASHER	1							
19	2	22212-100000	SPRING WASHER	1							
20	2	26716-100002	NUT, M10	1							
21	1	121450-01570	STUD	1							
22	1	26366-100002	NUT, M10	1							
23	1	129400-77330	ADJUSTER	1							
24	1	26014-080252	BOLT, M8X 25	1							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101158-11190	4	11
101304-59020	12	17
101720-55750	12	48
102103-55520	12	6
	43	
103854-39140	12	16
104200-55321	12	2
	39	
104200-55330	12	3
	40	
104200-55341	12	41
104200-55750	12	13
	49	
104200-59170	12	19
104211-11180	4	10
104211-11370	4	14
105025-59750	12	21
	28	
106383-44720	15	16
106383-44730	15	18
110250-55610	12	7
	44	
114250-53080	11	5
114250-53120	11	7
114250-53130	11	8
114250-53140	11	9
114250-53210	11	10
114250-53400	11	11
119259-44570	9	35
119620-02020	1	12
119620-66820	13	83
119625-11870	4	28
119625-11880	4	29
119625-11900	4	30
119629-49080	9	45
119631-34800	8	13
119640-01640	3	7
119643-77900	14	38
119660-77710	14	36
119810-01200	1	21
119810-01730	3	5
119810-01780	3	15
119810-01790	3	6
119810-02800	1	13
119810-02870	1	23
119810-02930	1	16
119810-02940	1	26
119810-11100	4	7
119810-11110	4	8
119810-11120	4	9

Parts No.	Fig. No.	Ref. No.
119810-11240	4	17
119810-12100	5	1
119810-12111	5	2
119810-13100	5	14
119810-13110	5	15
119810-14400	6	7
119810-14580	6	1
119810-23200	7	26
119810-23600	7	27
119810-23610	7	29
119810-23910	7	31
119810-32000	8	1
119810-35400	8	30
119810-42001	9	1
119810-51040	10	4
119810-55340	12	4
119810-55621	12	1
119810-55650	12	9
119810-59810	11	22
119810-59820	11	23
119810-59830	11	24
119812-11700	4	1
119813-21000	7	1
119813-22300	7	21
119818-01330	1	22 -1
119818-01370	1	22
119818-22080	7	15
119818-22500	7	17
119818-22900	7	32
119818-22950	7	34
119840-59560	12	25
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