

0CV10-M52900EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A - KG2 engine manufactured since July, 1997.
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.

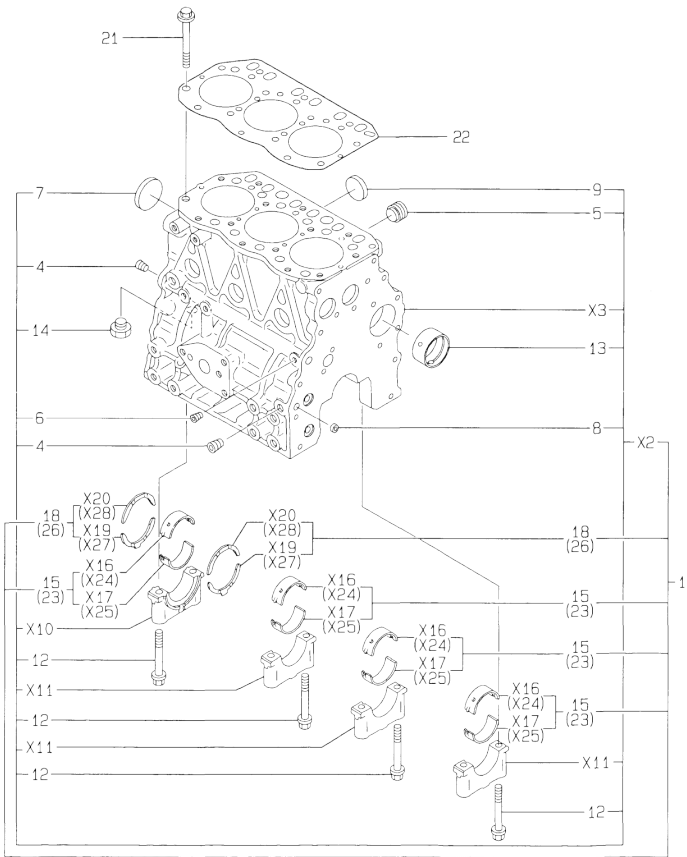
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-KG2			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD		
6.	EXHAUST MANIFOLD		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FUEL INJECTION VALVE		
14.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK



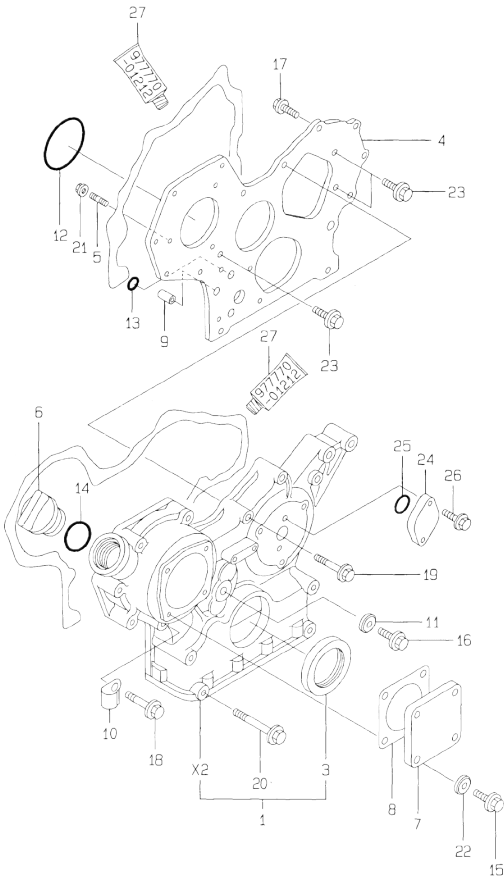
Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.

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							
23	1	119810-02870	BEARING, 0.25 US	4							1
26	1	119810-02940	BEARING, THRUST 0.25	2							2

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Fig.2. GEAR HOUSING

2. GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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	22190-080002	WASHER, SEAL 6	1							
12	1	121850-51960	O-RING	1							
13	1	24311-000160	O-RING, 1AP16.0	2							
14	1	24311-000320	O-RING, 1AP32.0	1							
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							
26	1	26106-060122	BOLT, M6X 12 PLATED	2							
27	1	97770-01212	GASKET, LIQUID	1							1

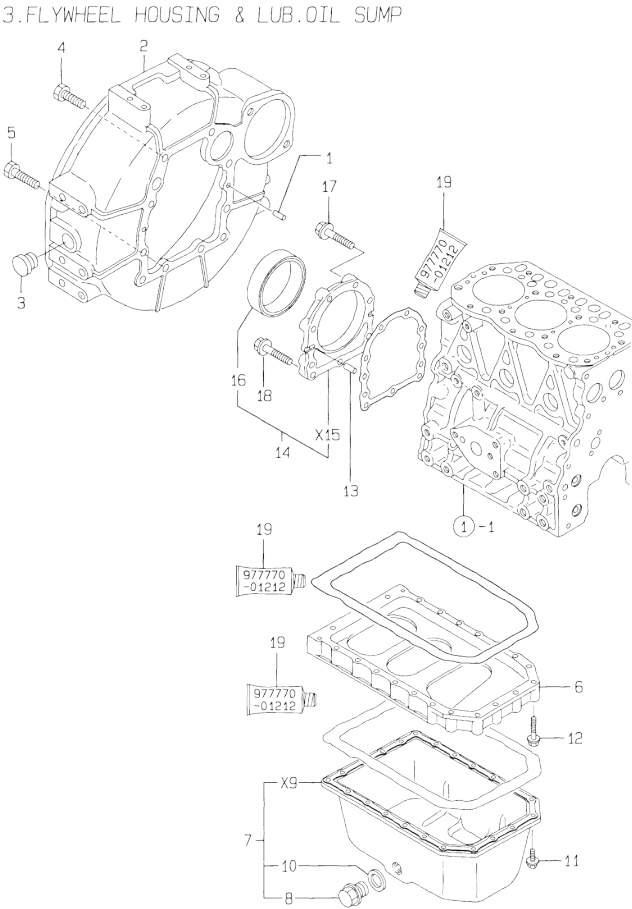
Remarks

(1) OPTIONAL PART.

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.3. FLYWHEEL HOUSING & OIL SUMP

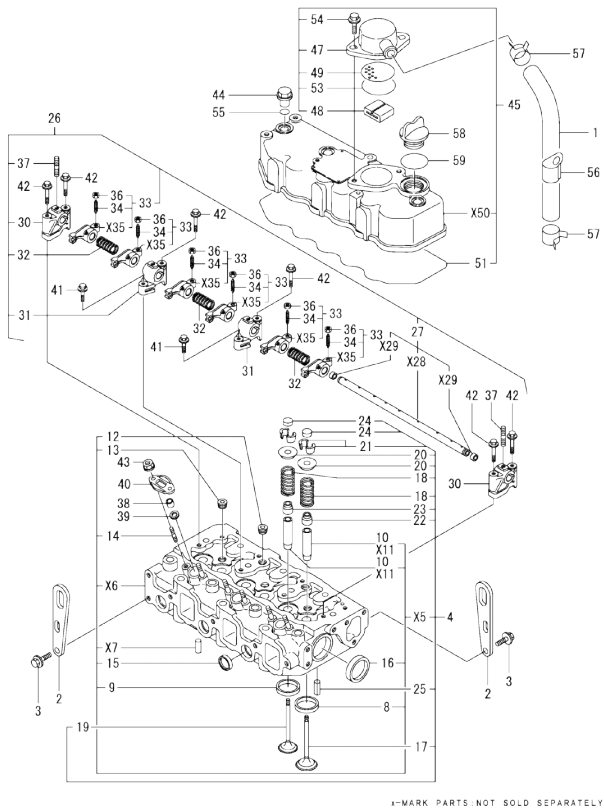


Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	171301-01600	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	129486-01670	BOLT, M8X30	6							
18	1	26106-080352	BOLT, M8X 35 PLATED	3							
19	1	977770-01212	GASKET, LIQUID	1							1

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.4. CYLINDER HEAD & BONNET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119847-03100	PIPE , BREATHER	1							
2	1	124736-07900	LIFTER	2							
3	1	26106-080142	BOLT, M8X 14 PLATED	4							
4	1	719818-11700	HEAD ASSY, CYLINDER	1							
8	3	119810-11080	SEAT, INTAKE VALVE	3							
9	3	119810-11090	SEAT, EXHAUST VALVE	3							
10	3	124060-11800	GUIDE, VALVE	6							1
12	3	121850-11860	PLUG, PT1/4	2							
13	3	23871-030000	PLUG, R03	3							
14	3	26216-060302	STUD, M6X 30	6							
15	3	27241-220000	PLUG, 22	3							
16	3	27241-400000	PLUG, 40	2							
17	2	119810-11100	VALVE, INTAKE	3							
18	2	119810-11120	SPRING, VALVE	6							
19	2	119810-11130	VALVE, EXHAUST	3							
20	2	104211-11180	RETAINER, SPRING	6							
21	2	27310-070001	COTTER, 7	6							
22	2	124160-11340	SEAL, VALVE STEM	3							
23	2	124950-11340	SEAL, VALVE STEM	3							
24	2	104211-11370	CAP, VALVE	6							
25	2	22351-060012	PIN, SPRING 6.0X12	2							
26	1	119865-11200	SUPPORT ASSY, ARM	1							
27	2	119810-11240	SHAFT ASSY, ROCKER	1							
30	2	129155-11260	SUPPORT, ROCKER ARM	2							
31	2	129155-11270	SUPPORT, ROCKER ARM	2							
32	2	129150-11280	SPRING	3							
33	2	719810-11650	ARM ASSY, ROCKER	6							
34	3	129150-11230	SCREW, VALVE ADJUST	6							
36	3	129150-11750	NUT, M8	6							
37	2	26226-080182	STUD, M8X 18	3							
38	1	119625-11871	PROTECTOR, NOZZLE	3							
39	1	119625-11880	SEAT, NOZZLE	3							
40	1	119625-11900	RETAINER, NOZZLE	3							
41	1	26106-080252	BOLT, M8X 25 PLATED	2							
42	1	26106-080502	BOLT, M8X 50 PLATED	6							
43	1	26366-060002	NUT, M6	6							
44	1	124160-11360	KNOB	3							
45	1	719810-11520	BONNET ASSY, HEAD	1							
47	2	129150-03020	COVER, BREATHER	1							
48	2	129150-03070	BAFFLE, BREATHER	1							
49	2	129150-03080	PLATE, BAFFLE	1							
51	2	119865-11310	GASKET, BONNET	1							
53	2	24341-000500	O-RING, 1AS50.0	1							
54	2	26106-080162	BOLT, M8X 16 PLATED	2							
55	1	24311-000120	O-RING, 1AP12.0	3							
56	1	129150-03100	RETAINER, PIPE	1							
57	1	129410-03990	CLAMP 22	2							
58	1	124160-01751	COVER, FILLER	1							
59	1	24311-000320	O-RING, 1AP32.0	1							

Remarks

(1) REPAIR PART.

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
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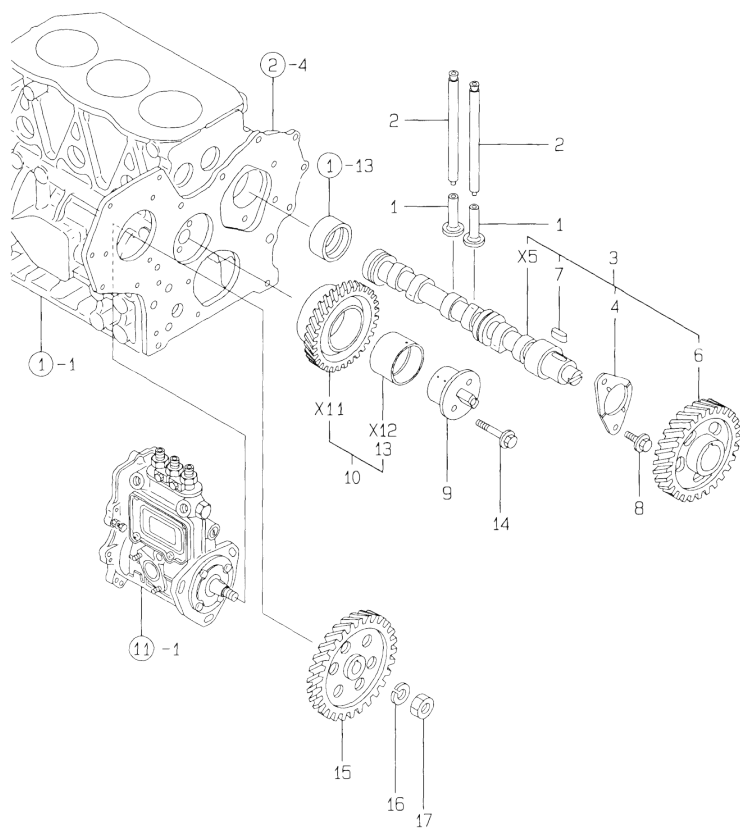
This diagram shows the exploded view of the engine block assembly. The components are numbered as follows:

- 1**: Main engine block
- 2**: Water pump housing
- 3**: Water pump impeller
- 4**: Timing belt cover (shown in two locations)
- 5**: Timing belt
- 6**: Timing belt tensioner
- 7**: Timing belt guide
- 8**: Timing belt bolt

[illegible]

				(A)=3TNE78A-KG2						(D)=	
				(B)=						(E)=	
				(C)=						(F)=	
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-13101	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET	1							
3	1	26106-080602	BOLT, M8X 60 PLATED	4							
4	1	26216-080222	STUD, M8X 22	4							
5	1	124701-11911	GASKET, SILENCER	1							
6	1	194990-22050	NUT, M8	2							
7	1	26216-080602	STUD, M8X 60	2							

7. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

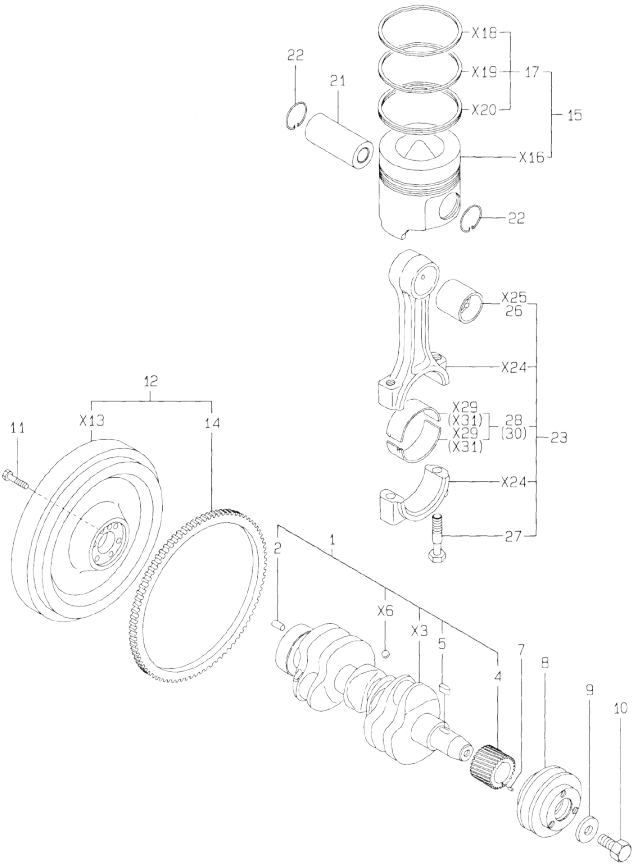
				(A)=3TNE78A-KG2 (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119810-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	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	129100-25900	GEAR, PUMP	1							
16	1	22217-120000	WASHER, SPRING 12	1							
17	1	26716-120002	NUT, M12	1							

N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

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Fig.8. CRANKSHAFT & PISTON

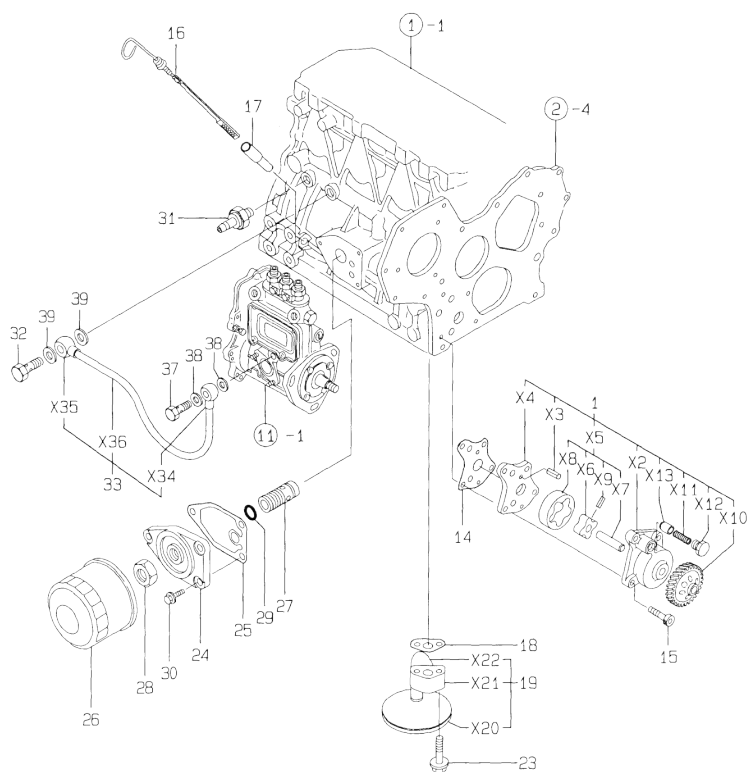
8. CRANKSHAFT & PISTON



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

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							
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	119818-22090	PISTON ASSY	3							
17	2	119818-22510	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

9.LUB.OIL SYSTEM

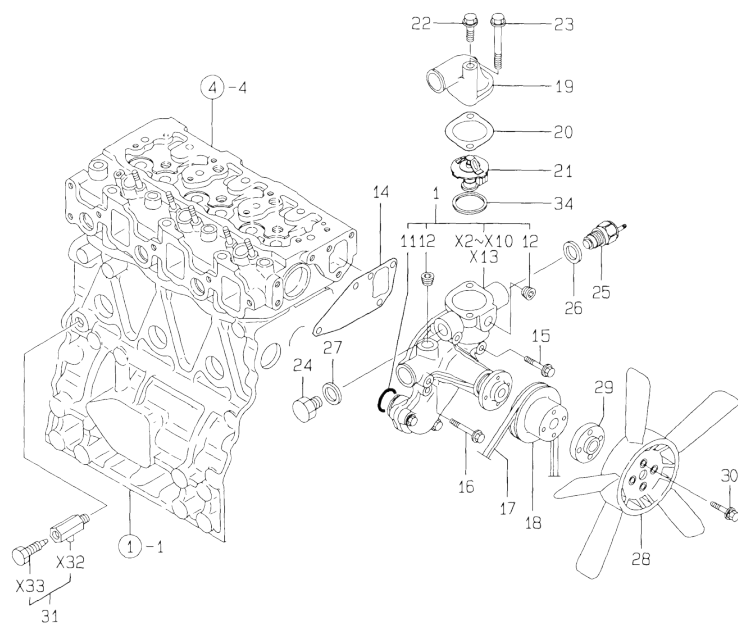


				(A)=3TNE78A-KG2				(D)=				I	R
				(B)=				(E)=					
				(C)=				(F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty	(D)	(E)	(F)			
1	1	129001-32001	PUMP ASSY, OIL	1									
14	1	129150-32020	GASKET, PUMP	1									
15	1	26450-060252	BOLT, M6X 25	4									
16	1	119932-34800	DIPSTICK, OIL	1									
17	1	121520-34810	GUIDE, DIPSTICK	1									
18	1	129150-35041	GASKET	1									
19	1	119810-35300	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	121252-39450	SWITCH, 0.5KG	1									
32	1	124160-39140	BOLT, PIPE JOINT M10	1									
33	1	119810-39200	PIPE ASSY, OIL	1									
37	1	124550-59820	BOLT, PIPE JOINT M8	1									
38	1	22190-080002	WASHER, SEAL 6	2									
39	1	23414-100000	GASKET, 10X1.0	2									

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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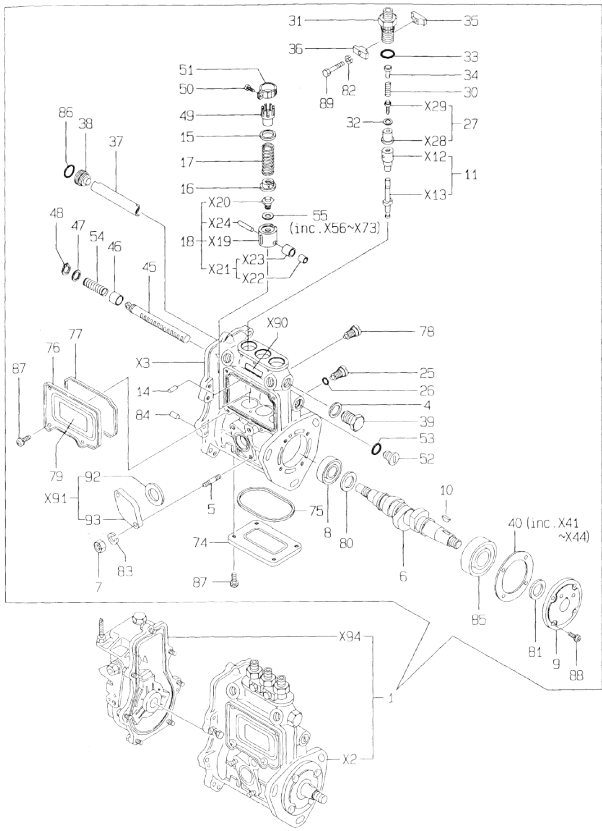
10. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	(A)=3TNE78A-KG2 (B)= (C)=						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	25132-003900	V-BELT, A39	1							
18	1	129403-42380	V-PULLEY, D=110	1							
19	1	119889-49530	COVER, THERMOSTAT	1							
20	1	129795-49551	GASKET	1							
21	1	129155-49800	THERMOSTAT, 71	1							
22	1	26106-080252	BOLT, M8X 25 PLATED	1							
23	1	26106-080652	BOLT, M8X 65 PLATED	1							
24	1	121450-42450	PLUG, M16	1							
25	1	121250-44901	SWITCH, 110	1							
26	1	124465-44950	GASKET, 16	1							
27	1	124465-44950	GASKET, 16	1							
28	1	124700-44740	FAN, COOLING 5X310	1							
29	1	124574-44761	SPACER, FAN	1							
30	1	26106-060202	BOLT, M6X 20 PLATED	4							
31	1	119620-49290	COCK ASSY, 1/4	1							
34	1	129150-49811	GASKET, THERMOSTAT	1							

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).

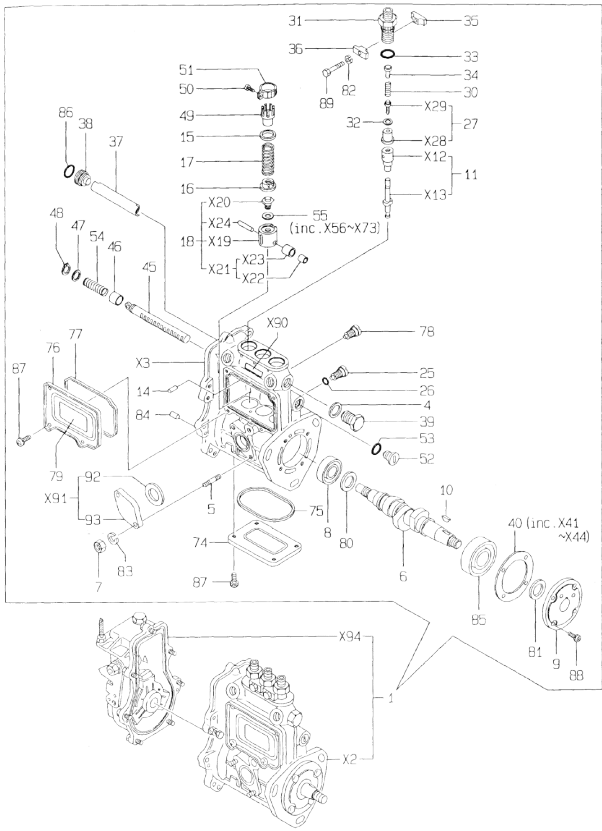
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719988-51410	PUMP ASSY, INJECTION	1							1
4	3	22190-160002	WASHER, SEAL 16	1							
5	3	129155-51020	STUD	2							
6	3	119810-51040	CAMSHAFT	1							
7	3	26716-060002	NUT, M6	2							
8	3	129155-51050	BEARING, 17BM001D	1							
9	3	129155-51060	SUPPORT, CAMSHAFT	1							
10	3	122710-51090	KEY	1							
11	3	129411-51200	PLUNGER ASSY	3							
14	3	129155-51140	PIN	3							
15	3	174307-51170	RETAINER, SPRING A	3							
16	3	129155-51180	RETAINER, SPRING	3							
17	3	124950-51190	SPRING, PLUNGER	3							
18	3	129155-51200	TAPPET ASSY	3							
25	3	129155-51270	STOPPER, TAPPET	3							
26	3	129155-51280	O-RING, S6	3							
27	3	128170-51300	VALVE ASSY, DELIVERY	3							
30	3	129155-51320	SPRING, DELIVERY	3							
31	3	129155-51340	RETAINER	3							
32	3	124550-51350	GASKET, DELIVERY	3							
33	3	124550-51370	O-RING	3							
34	3	129155-51370	STOPPER, VALVE	3							
35	3	129155-51380	STOPPER	2							
36	3	129155-51390	STOPPER	2							
37	3	129155-51400	DEFLECTOR	1							
38	3	129155-51410	BOLT	1							
39	3	129155-51420	PLUG, M16	1							
40	3	129155-51450	SHIM SET, ADJUSTING	1							
45	3	129155-51500	RACK, CONTROL	1							
46	3	129155-51521	BUSH, RACK	1							
47	3	129155-51530	SPACER	1							
48	3	129155-51540	CIRCLIP	1							
49	3	129155-51550	PINION, CONTROL	3							
50	3	122117-51560	SCREW	3							
51	3	174307-51560	PINION	3							
52	3	129155-51570	PLUG, M12	1							
53	3	129155-51580	O-RING	1							
54	3	129155-51591	SPRING, RACK	1							
55	3	129155-51600	SHIM SET, ADJUSTING	3							
74	3	129155-51700	COVER	1							
75	3	129155-51710	GASKET	1							
76	3	129155-51750	COVER	1							
77	3	129155-51760	GASKET	1							
78	3	129155-51790	STOOPER, RACK	1							
79	3	129156-51910	LABEL, CAUTION	1							
80	3	129155-51930	SPACER, T=3.25	1							
81	3	129155-51940	SPACER, T=1.5	1							
82	3	22217-050000	WASHER, SPRING 5	2							
83	3	22217-060000	WASHER, SPRING 6	2							
84	3	22351-050010	PIN, SPRING 5.0X10	2							
85	3	24101-063034	BEARING, BALL 6303	1							

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).

(A)=3TNE78A-KG2
(B)=
(C)=

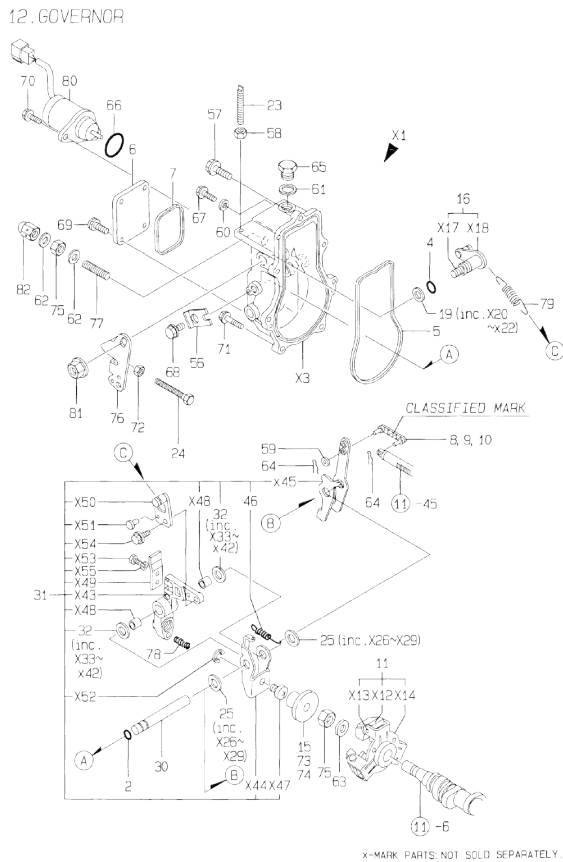
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
86	3	24341-000160	O-RING, 1AS16.0	1							
87	3	26022-050102	SCREW, M5X10	8							
88	3	26022-060162	SCREW, M6X16	4							
89	3	26116-050302	BOLT, M5X 30 PLATED	2							
92	3	129155-52050	GASKET	1							
93	3	129100-52200	COVER	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{RIS}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{RIS}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.12. GOVERNOR



Remarks
(1) SELECTIVE PARTS; CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER. (REF. TO ILLUSTRATION).
(2) SELECTIVE PARTS.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	1							
4	2	129155-61830	O-RING, S10	1							
5	2	129052-61050	GASKET	1							
6	2	129052-61060	COVER, GOVERNOR CASE	1							
7	2	129052-61070	GASKET	1							
8	2	129155-61120	LINK, L=30 MARK 0	1							1
9	2	129155-61130	LINK, L=31 MARK 1	1							1
10	2	129155-61140	LINK, L=30.5 MARK 05	1							1
11	2	129155-61201	WEIGHT ASSY, GOVERNOR	1							
15	2	129155-61341	SLEEVE	1							2
16	2	129100-61400	SHAFT ASSY	1							
19	2	129155-61430	SPACER	1							
23	2	129155-61450	BOLT, LIMITER	1							
24	2	129155-61460	BOLT, IDLE	1							
25	2	129155-61480	SPACER ASSY	2							
30	2	129052-61390	SHAFT	1							
31	2	129412-61500	LEVER ASSY, GOVERNOR	1							
32	3	174307-51700	SHIM SET	2							
46	3	119843-61540	SPRING, SET	1							
56	2	119660-61901	RETAINER, SHAFT	1							
57	2	129155-61950	BOLT	1							
58	2	124550-66370	NUT, M6	1							
59	2	22117-040000	WASHER, 4	1							
60	2	22190-060002	WASHER, SEAL 6	1							
61	2	22190-100002	WASHER, SEAL 10	1							
62	2	22190-120002	WASHER, SEAL 12	2							
63	2	22287-120000	WASHER, 12	1							
64	2	22372-040000	PIN, SNAP 4	2							
65	2	23887-100002	PLUG, 10	1							
66	2	24341-000280	O-RING, 1AS28.0	1							
66-1	2	158552-61900	O-RING	1							N
(A)=EXXXXXX											
67	2	26106-060102	BOLT, M6X 10 PLATED	1							
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26106-060102	BOLT, M6X 10 PLATED	4							
70	2	26106-060142	BOLT, M6X 14 PLATED	2							
71	2	26106-060202	BOLT, M6X 20 PLATED	6							
72	2	26756-060002	NUT, LOCK M6	1							
73	2	129155-61350	SLEEVE, L=24.9	1							2
74	2	129155-61360	SLEEVE, L=25.2	1							2
75	2	26776-120002	NUT, LOCK M12	2							
76	1	129100-61440	LEVER, CONTROL	1							
77	1	129155-61470	BOLT, CONTROL	1							
78	1	129500-61650	SPRING, FUEL CONTROL	1							
79	1	129500-61700	SPRING, GOVERNOR	1							
80	1	119653-77950	SOLENOID, STOP	1							
81	1	26366-080002	NUT, M8	1							
82	1	26687-120002	NUT, CAP M12	1							

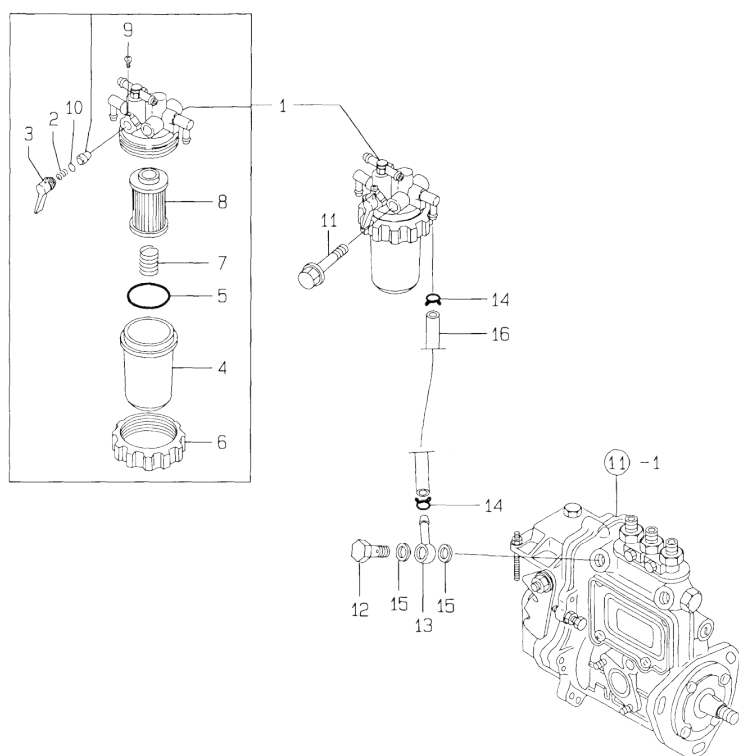
This diagram illustrates the assembly of a 4-cylinder engine. The main components shown are:

- Engine Block (4):** The central component, shown in an exploded view with a 4-cylinder configuration.
- Cylinder Head (1):** The top cover of the engine, shown below the block.
- Valve Train Components:**
 - Valves (2):** Intake and exhaust valves, shown in an exploded view with labels X3 and X4.
 - Valve Springs (9):** Springs that compress the valves.
 - Valve Retainers (10, 11):** Components that hold the valve springs in place.
 - Valve Guides (12):** Guides for the valve stems.
 - Valve Seals (13):** Seals to prevent oil from entering the combustion chamber.
- Pistons and Crankshaft:**
 - Pistons (5):** Shown in an exploded view at the bottom.
 - Crankshaft (35):** The main rotating component, shown at the bottom.
 - Connecting Rods (36, 37, 38, 39, 40, 41, 42, 43):** Components that connect the pistons to the crankshaft.
- Accessory Components:**
 - Water Pump (14):** Shown on the left side of the engine block.
 - Timing Belt (28):** A belt that synchronizes the rotation of the crankshaft and the camshaft.
 - Timing Belt Tensioner (29):** A component that maintains the tension of the timing belt.
 - Timing Belt Guide (30):** A guide for the timing belt.
 - Timing Belt Pulley (31):** A pulley that guides the timing belt.
 - Timing Belt Cover (32):** A cover for the timing belt.
 - Timing Belt Seal (33):** A seal for the timing belt cover.
 - Timing Belt Bracket (34):** A bracket that holds the timing belt tensioner.
- Other Labels:**
 - A:** A label pointing to the timing belt tensioner (29) and the timing belt guide (30).
 - X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100:** Various other components and parts shown in the diagram.

				(A)=3TNE78A-KG2							(D)=			
				(B)=							(E)=			
				(C)=							(F)=			
No.	Lev.	Parts No.	Description	Q'ty									I	R
				(A)	(B)	(C)	(D)	(E)	(F)					
1	1	729102-53100	VALVE ASSY,INJECTION	3										
2	2	129102-53000	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	119811-59810	PIPE ASSY, INJECTION	1										
26	2	119811-59820	PIPE ASSY, INJECTION	1										
27	2	119811-59830	PIPE ASSY, INJECTION	1										
28	1	124766-59050	CLIP, HOSE 12	2										
29	1	124066-59100	CLIP, HOSE 8	7										
30	1	121250-59550	PIPE, FUEL DBX120	2										
31	1	119840-59560	PIPE, FUEL RETURN	1										
32	1	119840-59570	JOINT	1										
33	1	129150-59580	CAP	1										
34	1	105025-59750	PIPE, FUEL	1										
35	1	129100-59951	VALVE ASSY, CHECK	1										
43	1	23414-120000	GASKET, 12X1.0	2										

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

14. FUEL LINE

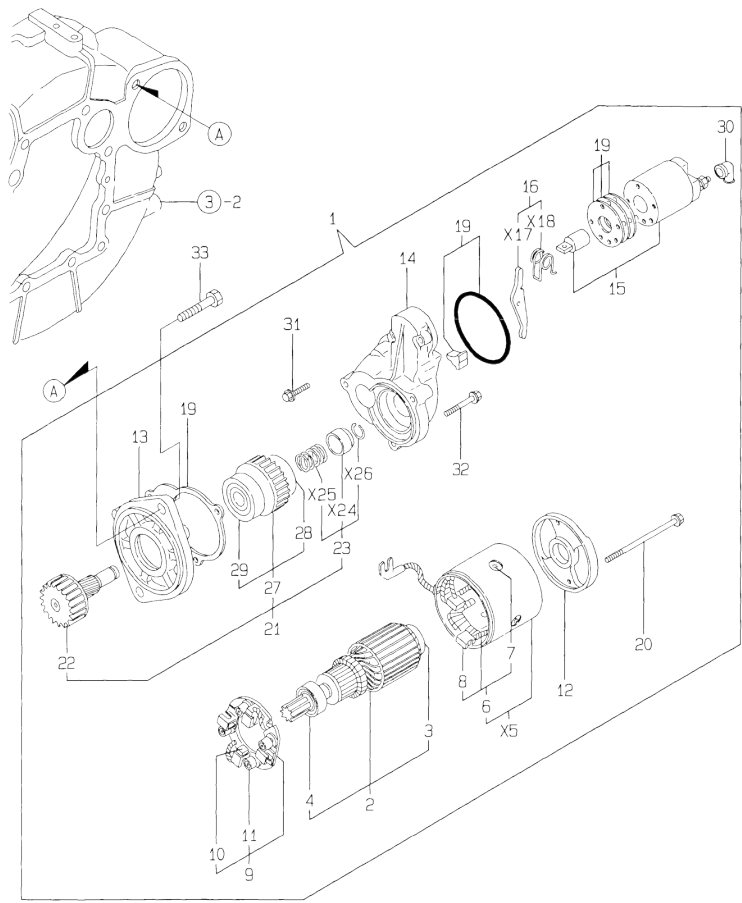


				(A)=3TNE78A-KG2 (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119833-55620	FILTER ASSY, FUEL	1							
2	2	104200-55330	SPRING, VALVE	1							
3	2	119810-55340	LEVER	1							
4	2	121254-55510	COVER	1							
5	2	102103-55520	O-RING	1							
6	2	110250-55610	RING, RETAINING	1							
7	2	121250-55620	SPRING	1							
8	2	119810-55650	ELEMENT	1							
9	2	104200-55750	SCREW, M4	1							
10	2	24311-240100	O-RING, 1AP10A	1							
11	1	26014-080702	BOLT, M8X 70	1							
12	1	103854-39140	BOLT, PIPE JOINT	1							
13	1	101304-59020	JOINT, PIPE 12	1							
14	1	124766-59050	CLIP, HOSE 12	2							
15	1	22190-120002	WASHER, SEAL 12	2							
16	1	129555-59510	PIPE, D13/7.5X180	1							

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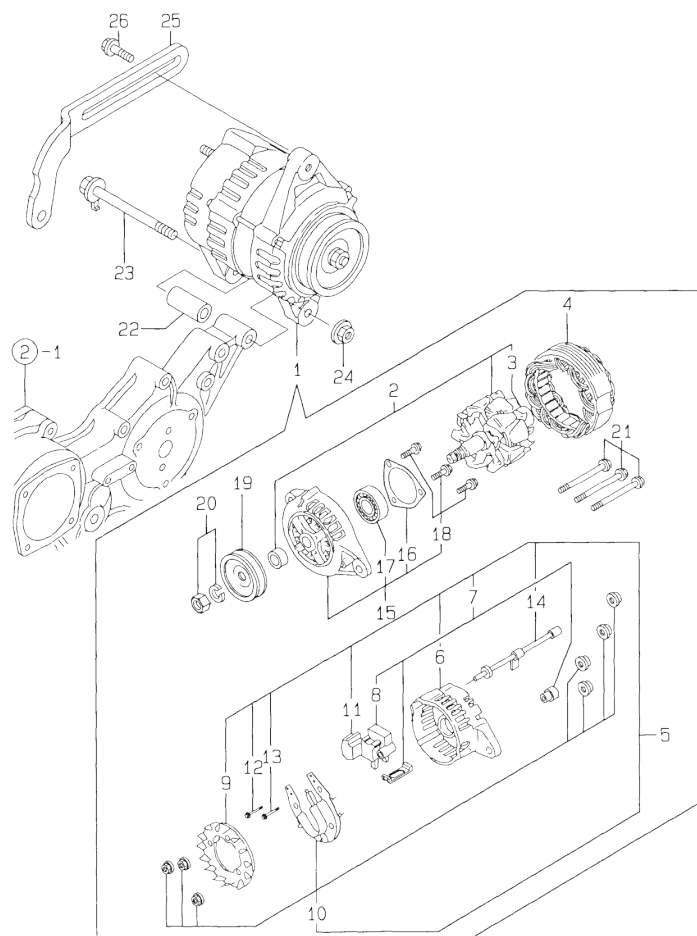
Fig.15. STARTING MOTOR

15.STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171008-77010	STARTER, S114-483	1							
2	2	171008-77400	ARMATURE ASSY	1							
3	3	X2130350900	BALL BEARING	1							
4	3	X2114255110	BEARING, BALL	1							
6	3	171008-77440	COIL ASSY, FIELD	1							
7	4	171008-77450	SCREW	4							
8	4	171008-77460	BRUSH (+)	2							
9	2	171008-77470	HOLDER ASSY, BRUSH	1							
10	3	171008-77480	BRUSH (-)	2							
11	3	171008-77490	SPRING, BRUSH	4							
12	2	171008-77500	COVER, REAR	1							
13	2	171008-77510	HOUSING ASSY, GEAR	1							
14	2	171008-77520	HOUSING, CENTER	1							
15	2	X2114T71010	SWITCH ASSY	1							
16	2	171008-77540	LEVER SET, SHIFT	1							
19	2	171008-77571	DUST COVER,(NON-ASB.	1							
20	2	171008-77640	BOLT, THROUGH	2							
21	2	171008-77650	PINION ASSY	1							
22	3	171008-77660	SHAFT, PINION	1							
23	3	171008-77670	STOPPER SET, PINION	1							
27	3	X2114555500	CLUTCH ASSY	1							
28	4	X2114955020	BALL BEARING	1							
29	4	X2240410100	BEARING, BALL	1							
30	2	171008-77750	COVER, M TERMINAL	1							
31	2	26106-060322	BOLT, M6X 32 PLATED	2							
32	2	26106-060402	BOLT, M6X 40 PLATED	3							
33	1	26116-120252	BOLT, M12X 25 PLATED	2							

16. GENERATOR



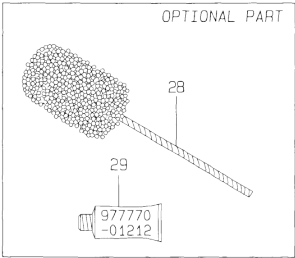
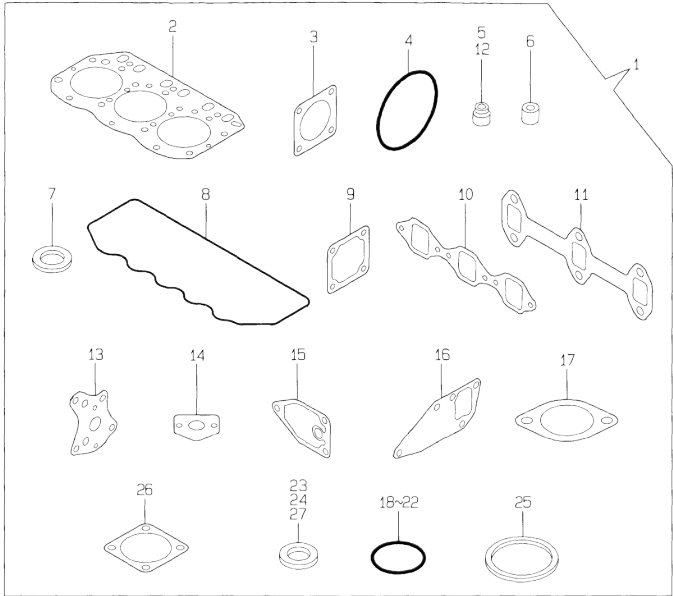
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1							
2	2	119836-77700	ROTOR ASSY	1							
3	3	119836-77850	BALL BEARING	1							
4	2	119836-77710	STATOR ASSY	1							
5	2	119836-77721	COVER ASSY, REAR	1							
6	3	119836-77730	COVER, REAR	1							
7	3	119836-77741	BRUSH ASSY,REGULATOR	1							
8	4	119836-77750	BRUSH ASSY	1							
9	3	119836-77760	GUIDE, FAN SIDE	1							
10	3	119836-77770	DIODE ASSY	1							
11	3	119836-77780	CONDENSER	1							
12	3	119836-77871	BOLT (1)	1							
13	3	119836-77880	BOLT (2)	1							
14	3	119836-77890	WIRE ASSY, LEAD	1							
15	2	119836-77790	COVER ASSY, FRONT	1							
16	3	119836-77800	RETAINER, BEARING	1							
17	3	119836-77840	BALL BEARING	1							
18	3	119836-77860	SCREW KID	1							
19	2	119836-77810	PULLEY	1							
20	2	119836-77820	NUT ASSY, PULLEY	1							
21	2	119836-77830	BOLT, THROUGH	1							
22	1	119820-77340	PIECE, DISTANCE	1							
23	1	129136-77250	BOLT M 8X105	1							
24	1	26366-080002	NUT, M8	1							
25	1	129100-77330	ADJUSTER	1							
26	1	26014-080252	BOLT, M8X 25	1							

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:Qty Change

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Fig.17. GASKET SET

17.GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719818-92610	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	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	124701-11911	GASKET, SILENCER	1							
27	2	23414-120000	GASKET, 12X1.0	2							
28	1	129400-92420	FLEX HORN	1							1
29	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1) OPTIONAL PART.

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	13
102103-55520	14	5
103854-39140	14	12
104200-55330	14	2
104200-55750	14	9
104211-11180	4	20
104211-11370	4	24
104407-44480	5	3
105025-59750	13	34
110250-55610	14	6
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119620-01750	3	3
119620-02020	1	12
119620-49290	10	31
119625-11871	4	38
	17	6
119625-11880	4	39
	17	7
119625-11900	4	40
119640-01640	3	8
119653-77950	12	80
119660-61901	12	56
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
119810-11080	4	8
119810-11090	4	9
119810-11100	4	17
119810-11120	4	18
119810-11130	4	19
119810-11240	4	27
119810-12111	5	4
	17	10
119810-13110	6	2
	17	11
119810-14400	7	2
119810-14580	7	3
119810-23200	8	27
119810-23600	8	28
119810-23610	8	30

Parts No.	Fig. No.	Ref. No.
119810-23910	8	26
119810-35300	9	19
119810-39200	9	33
119810-42001	10	1
119810-51040	11	6
119810-55340	14	3
119810-55650	14	8
119811-59810	13	25
119811-59820	13	26
119811-59830	13	27
119813-21000	8	1
119813-22300	8	21
119818-01330	1	22
	17	2
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119836-77800	16	16
119836-77810	16	19
119836-77820	16	20
119836-77830	16	21
119836-77840	16	17
119836-77850	16	3
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119836-77871	16	12
119836-77880	16	13
119836-77890	16	14
119840-59560	13	31
119840-59570	13	32
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119847-12100	5	1
119847-12110	5	2
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124550-51370	11	33
124550-59820	9	37
124550-66370	12	58
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129100-25900	7	15
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129120-77501	5	6
129136-77250	16	23
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129150-03080	4	49
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129150-14101	7	6
129150-14200	7	1
129150-21200	8	4
129150-25101	7	10
129150-25920	7	13
129150-32020	9	14
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129150-35041	9	18
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129150-35101	9	24
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129150-35151	9	26
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129150-42020	10	14
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129150-42320	10	11
129150-49811	10	34
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129155-51060	11	9
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129155-51270	11	25
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129155-51320	11	30
129155-51340	11	31
129155-51370	11	34
129155-51380	11	35
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129155-51700	11	74
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171051-01921	3	2
171301-01600	8	12
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171301-21650	11	15
174307-51170	11	51
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719810-01650	3	14
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719818-92610	17	1
719822-01560	1	1
719988-51410	11	1
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