

0CV10-M76400EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A - AK engine manufactured since June, 2000.
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 $\xrightarrow{\text{No}}$	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

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.

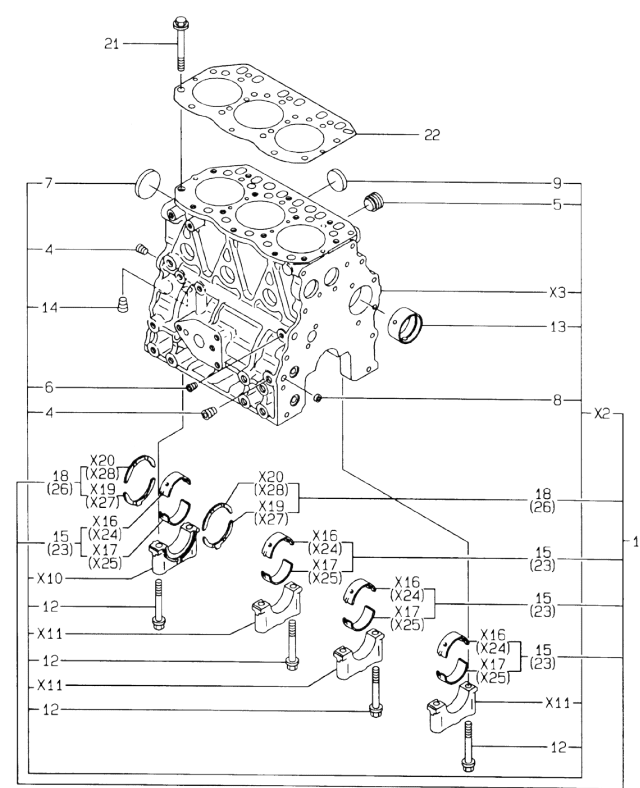
Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-AK			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
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		

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Fig.1. CYLINDER BLOCK

1. CYLINDER BLOCK

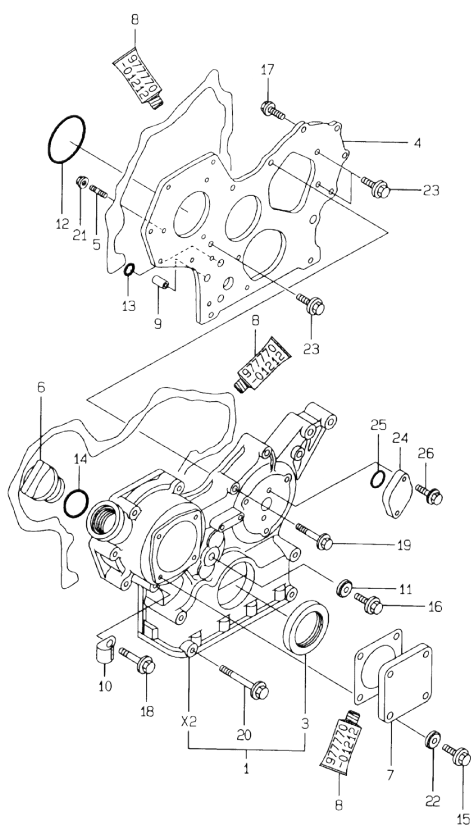


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.

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	23876-010000	PLUG, R01	1							
7	3	129001-01250	PLUG, 50	1							
8	3	27241-120000	PLUG, 12	2							
9	3	27241-300000	PLUG 30	6							
12	3	119620-02020	BOLT, METAL CAP	8							
13	3	129795-02411	BUSH, CAMSHAFT	1							
14	3	124160-01910	PLUG, PT1/4	1							
15	2	119810-02800	BEARING, MAIN	4							
18	2	119810-02930	BEARING, THRUST	1							
21	1	119810-01200	BOLT, HEAD	14							
22	1	119818-01330	GASKET, HEAD	1							
23	1	119810-02870	BEARING, 0.25 US	4							1
26	1	119810-02940	BEARING, THRUST 0.25	2							2

N:Old $\frac{N_{10}}{10}$ New, Q:Old $\frac{Q_{10}}{10}$ New, R:Old $\frac{R_{10}}{10}$ New, S:Old $\frac{S_{10}}{10}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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2. GEAR HOUSING

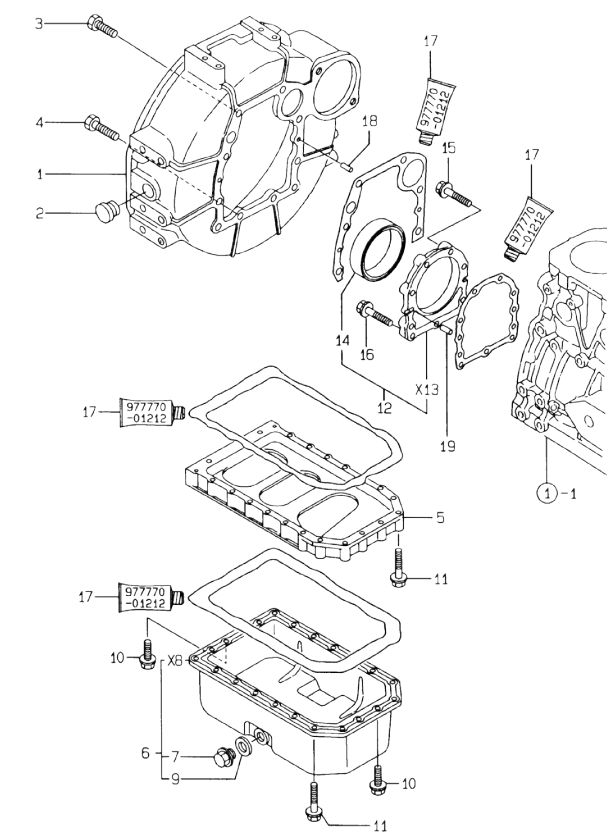
Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Qty						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	977770-01212	GASKET, LIQUID	1							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	129001-91841	BOLT, M8X85	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	26106-060162	BOLT, M6X 16 PLATED	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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Fig.3. FLYWHEEL HOUSING & OIL SUMP

3.FLYWHEEL HOUSING & OIL SUMP



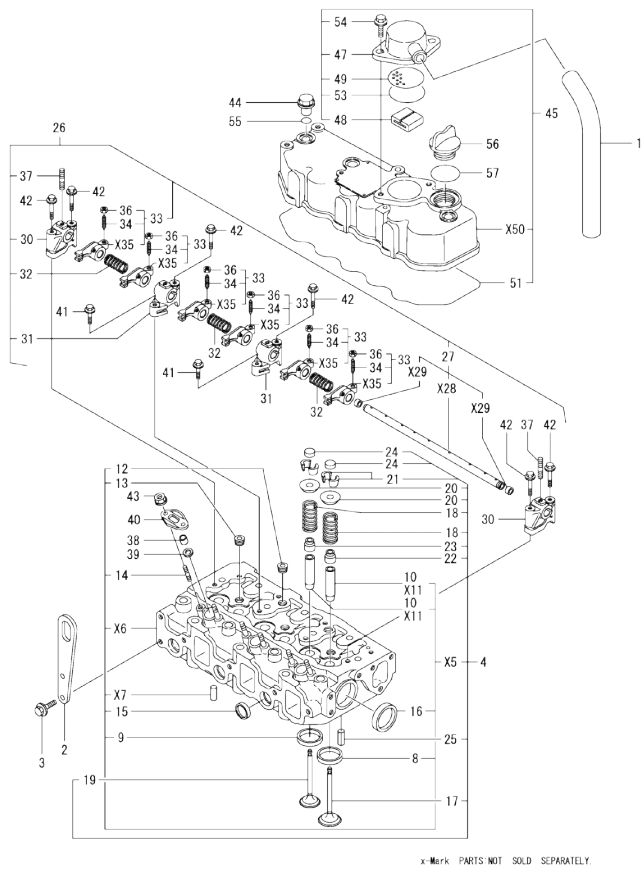
x-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-01600	HOUSING, FLYWHEEL	1							
2	1	119620-01750	CAP	1							
3	1	26206-100252	BOLT, M10X 25 PLATED	6							
4	1	26206-100302	BOLT, M10X 30 PLATED	4							
5	1	119810-01730	SPACER, OIL SUMP	1							
6	1	119810-01770	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	719810-01650	CASE ASSY, OIL SEAL	1							
14	2	119810-01780	SEAL, 769310	1							
15	1	129486-01670	BOLT, M8X30	6							
16	1	26106-080352	BOLT, M8X 35 PLATED	3							
17	1	977770-01212	GASKET, LIQUID	1							1
18	1	129100-01580	PIN, M8X16	2							
19	1	129100-01580	PIN, M8X16	2							

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Fig.4. CYLINDER HEAD & BONNET

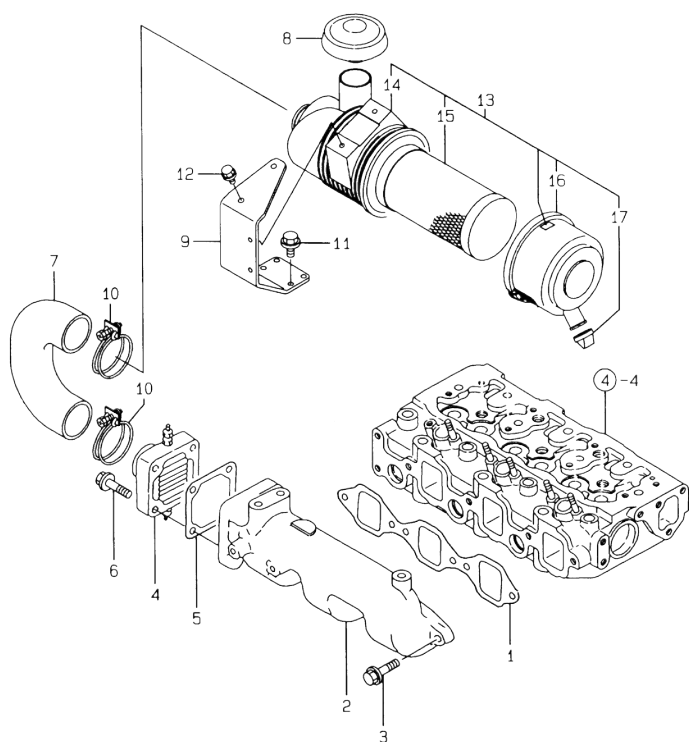


Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-03090	PIPE , BREATHER 900	1							
2	1	129900-07900	LIFTER	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	2							
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	23876-030000	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	119625-11870	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	719810-11521	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	124160-01751	COVER, FILLER	1							
57	1	24311-000320	O-RING, 1AP32.0	1							

N:Old $\frac{YES}{NO}$ New, O: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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5. SUCTION MANIFOLD & AIR CLEANER

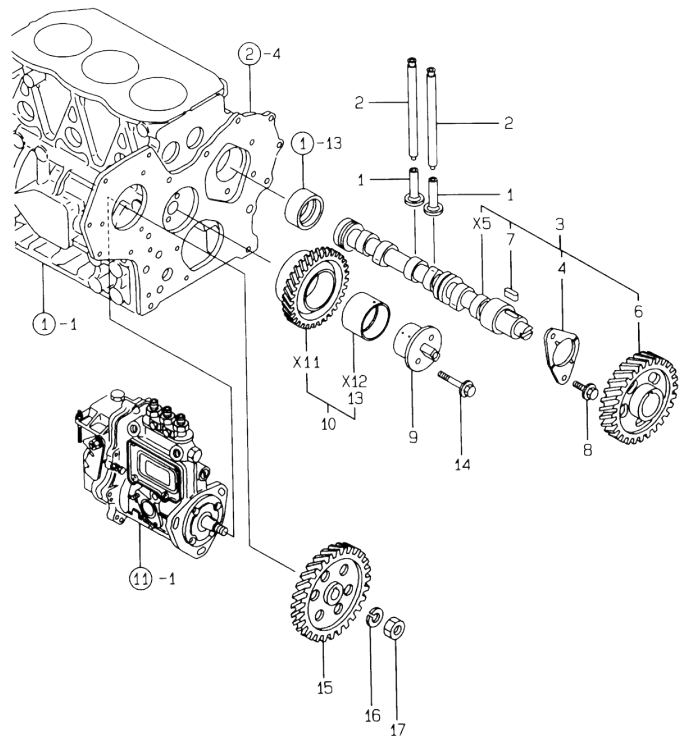


				(A)=3TNE78A-AK (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119810-12111	GASKET, MANIFOLD	1							
2	1	171301-12701	MANIFOLD, AIR INTAKE	1							
3	1	26106-080252	BOLT, M8X 25 PLATED	4							
4	1	129120-77501	HEATER	1							
5	1	129150-77511	GASKET	1							
6	1	26106-080352	BOLT, M8X 35 PLATED	4							
7	1	129619-12210	PIPE, AIR INTAKE	1							
8	1	121521-12400	CAP, RAIN	1							
9	1	129608-12560	BRACKET, AIR CLEANER	1							
10	1	23000-060000	CLAMP, 60	2							
11	1	26106-080182	BOLT, M8X 18 PLATED	4							
12	1	26106-080182	BOLT, M8X 18 PLATED	2							
13	1	129608-12501	CLEANER ASSY, AIR	1							
14	2	129608-12511	BODY, AIR CLEANER	1							
15	2	119808-12520	ELEMENT	1							
16	2	119808-12530	COVER	1							
17	2	119808-12540	VALVE, UNLOADER	1							

No.	Lev.	Parts No.	Description	Q'ty						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	119131-18320	STUD, M8X22	4							
5	1	26366-080002	NUT, M8	2							
6	1	26216-080602	STUD, M8X 60	2							

Fig.7. CAMSHAFT & DRIVING GEAR

7. CAMSHAFT & DRIVING GEAR



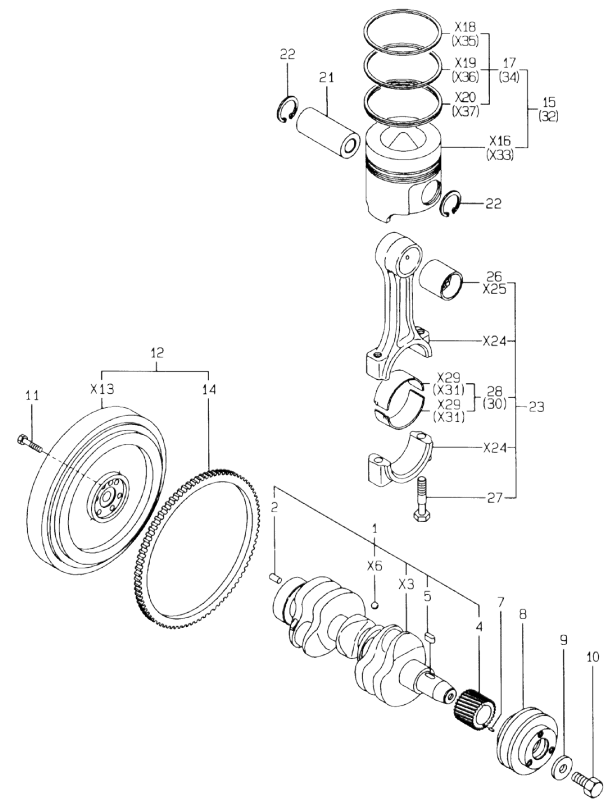
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119810-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	129100-25061	SHAFT, IDLE	1							
10	1	129150-25101	GEAR ASSY, IDLE	1							
13	2	129150-25920	BUSH, IDLE GEAR	1							1
14	1	26106-080452	BOLT, M8X 45 PLATED	2							
15	1	129150-25900	GEAR, PUMP	1							
16	1	22217-120000	WASHER, SPRING 12	1							
17	1	26716-120002	NUT, M12	1							

Remarks
(1) REPAIR PART.

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Fig.8. CRANKSHAFT & PISTON

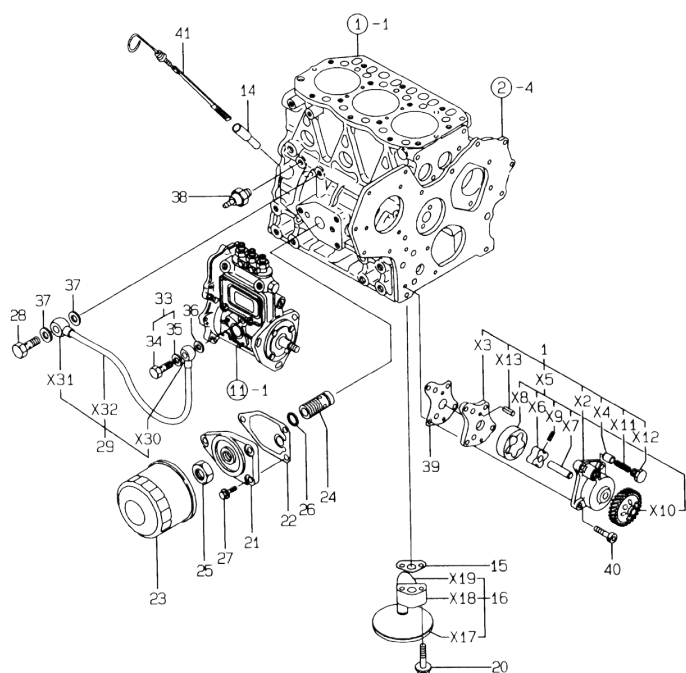
8.CRANKSHAFT & PISTON



x-MARK PARTS NOT SOLD SEPARATELY.

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	119888-21590	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
32	1	119818-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119818-22950	RING SET, 0.25 OS	3							3

9. LUB. OIL SYSTEM

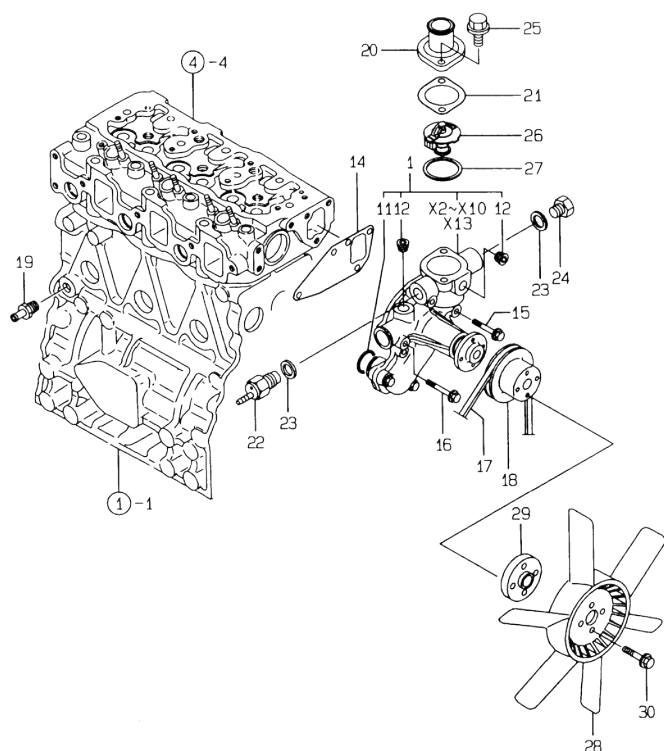


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	121520-34810	GUIDE, DIPSTICK	1							
15	1	129150-35041	GASKET	1							
16	1	119810-35300	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	129150-35101	BRACKET, STRAINER	1							
22	1	129150-35111	GASKET	1							
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							
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	124550-59830	BOLT ASSY, JOINT M8	1							
34	2	124550-59820	BOLT, PIPE JOINT M8	1							
35	2	22190-080002	WASHER, SEAL 6	1							
36	1	22190-080002	WASHER, SEAL 6	1							
37	1	22190-100002	WASHER, SEAL 10	2							
38	1	114250-39450	SWITCH, 0.5KG	1							
39	1	129150-32020	GASKET, PUMP	1							
40	1	26450-060252	BOLT, M6X 25	4							
41	1	171420-34820	DIPSTICK, OIL	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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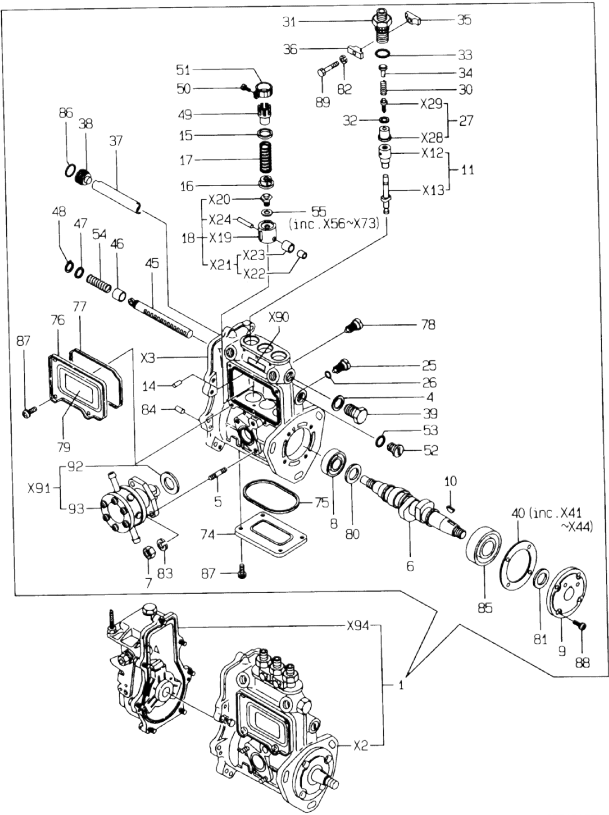
10.COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-42001	PUMP ASSY, WATER	1							
1	2	129150-42320	O-RING	1							
12	2	23876-030000	PLUG, R03	2							
14	1	129486-42050	GASKET, WATER PUMP	1							
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	129211-42290	V-BELT, A38.5	1							
18	1	129403-42380	V-PULLEY, D=110	1							
19	1	121550-49111	JOINT, PT1/4	1							
20	1	129350-49530	COVER, THERMOSTAT	1							
21	1	129795-49551	GASKET	1							
22	1	121250-44901	SWITCH, 110	1							
23	1	124465-44950	GASKET, 16	2							
24	1	121450-42450	PLUG, M16	1							
25	1	26106-080222	BOLT, M8X 22 PLATED	2							
26	1	129155-49800	THERMOSTAT, 71	1							
27	1	129150-49811	GASKET, THERMOSTAT	1							
28	1	119620-44741	FAN, COOLING D310	1							
29	1	124574-44761	SPACER, FAN	1							
30	1	26014-060252	BOLT, M6X 25	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).

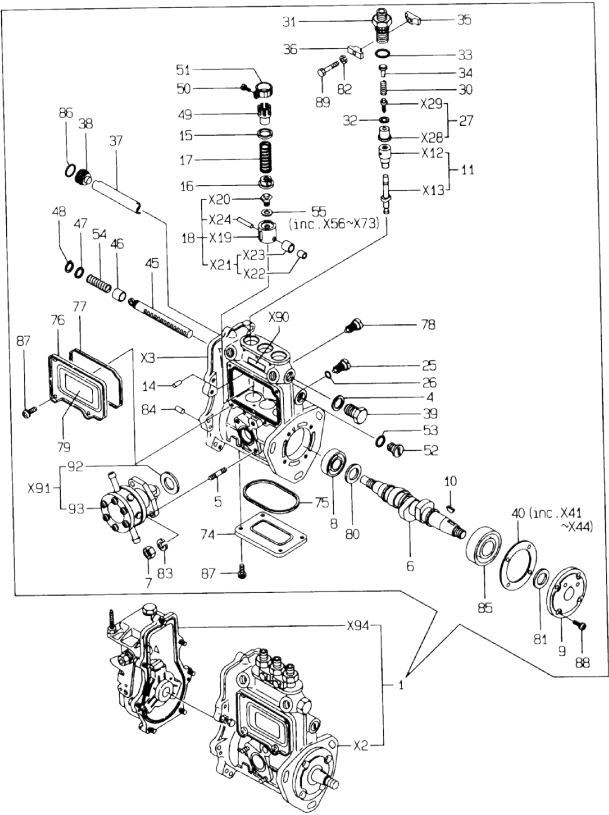
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-51400	PUMP ASSY, INJECTION	1							1
4	3	22190-160002	WASHER, SEAL 16	1							
5	3	129155-51020	STUD	2							
6	3	119810-51040	CAMSHAFT	1							
7	3	26716-060002	NUT, M6	2							
8	3	129155-51050	BEARING, 17BM001D	1							
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	129155-51701	COVER	1							
75	3	129155-51710	GASKET	1							
76	3	129155-51751	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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OCV10-M76400

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



x-MARK PARTS: NOT SOLD SEPARATELY.

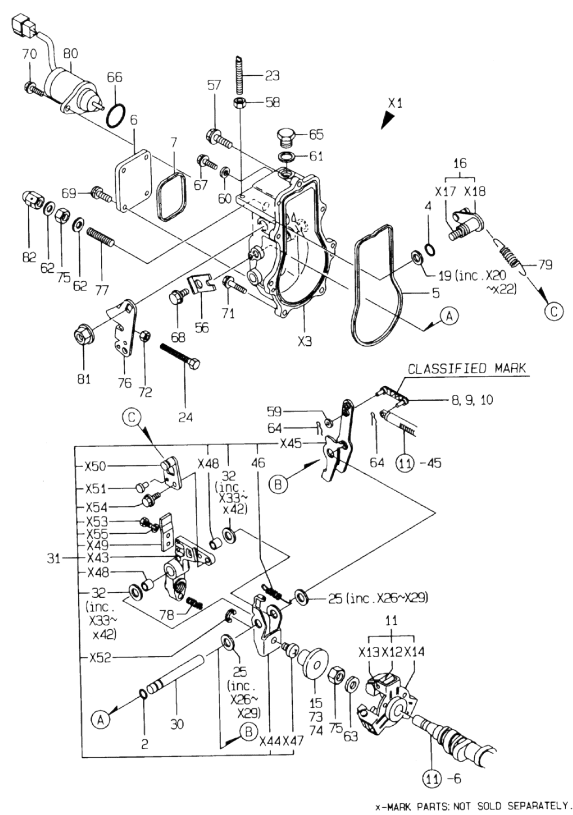
Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
86	3	24341-000160	O-RING, 1AS16.0	1							
87	3	26022-050122	SCREW, M5X12	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	129100-52100	PUMP ASSY, FUEL FEED	1							

N:Old $\frac{Y_{100}}{100}$ New, Q:Old $\frac{R_{100}}{100}$ New, R:Old $\frac{Y_{100}}{100}$ New, S:Old $\frac{R_{100}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.12. GOVERNOR

12. GOVERNOR



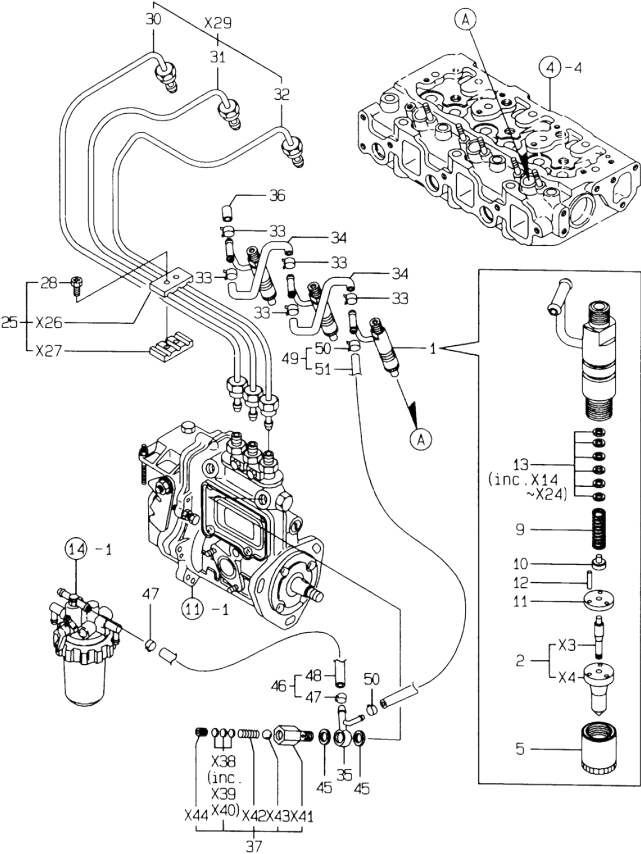
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	1							
4	2	129155-61830	O-RING, S10	1							
5	2	129052-61050	GASKET	1							
6	2	129052-61060	COVER, GOVERNOR CASE	1							
7	2	129052-61070	GASKET	1							
8	2	129155-61120	LINK, L=30 MARK 0	1							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	129155-61202	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	22190-060003	SEAL WASER, 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							

Remarks

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

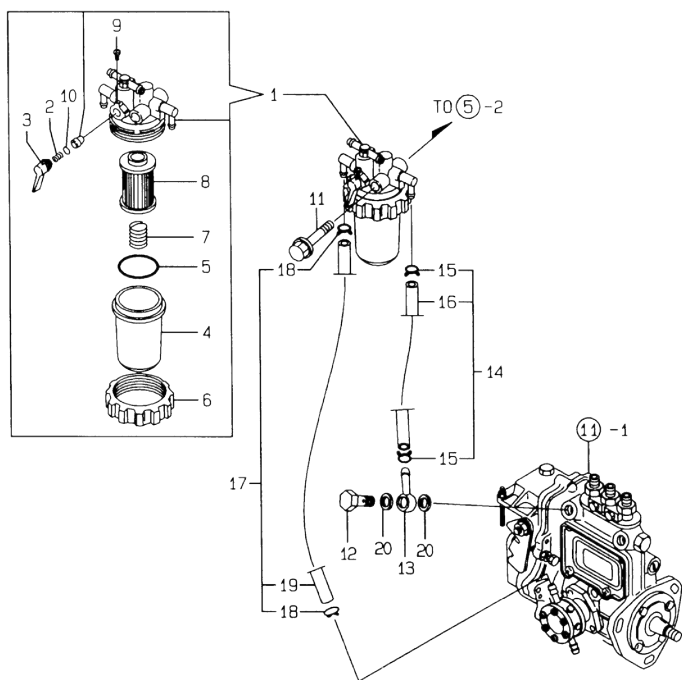
Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE



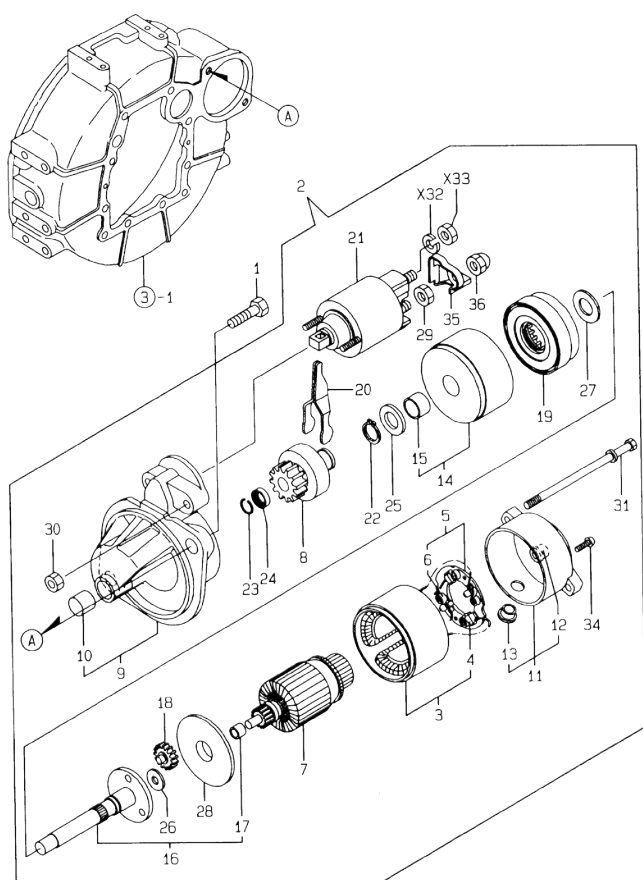
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729102-53100	VALVE ASSY,INJECTION	3							
2	2	129102-53000	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
9	2	114250-53120	SPRING, NOZZLE	3							
10	2	114250-53130	SEAT, SPRING	3							
11	2	114250-53140	PLATE	3							
12	2	114250-53210	PIN	6							
13	2	114250-53400	SHIM SET	3							
25	1	129150-59120	RETAINER, PIPE	1							
28	2	129150-59131	BOLT, M4X14	2							
30	2	119811-59810	PIPE ASSY, INJECTION	1							
31	2	119811-59820	PIPE ASSY, INJECTION	1							
32	2	119811-59830	PIPE ASSY, INJECTION	1							
33	1	124066-59100	CLIP, HOSE 8	5							
34	1	121250-59550	PIPE, FUEL D8X120	2							
35	1	119840-59570	JOINT	1							
36	1	129150-59580	CAP	1							
37	1	129100-59951	VALVE ASSY, CHECK	1							
45	1	22190-120002	WASHER, SEAL 12	2							
46	1	129210-59130	PIPE ASSY, FUEL	1							
47	2	124766-59050	CLIP, HOSE 12	2							
48	2	105025-59750	PIPE, FUEL	1							
49	1	119840-59500	PIPE ASSY, RETURN	1							
50	2	124066-59100	CLIP, HOSE 8	2							
51	2	119840-59560	PIPE, FUEL RETURN	1							

14. FUEL LINE



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	129210-59040	PIPE ASSY, FUEL	1							
15	2	124766-59050	CLIP, HOSE 12	2							
16	2	129555-59510	PIPE, D13/7.5X180	1							
17	1	129210-59130	PIPE ASSY, FUEL	1							
18	2	124766-59050	CLIP, HOSE 12	2							
19	2	105025-59750	PIPE, FUEL	1							
20	1	22190-120002	WASHER, SEAL 12	2							

15. STARTING MOTOR

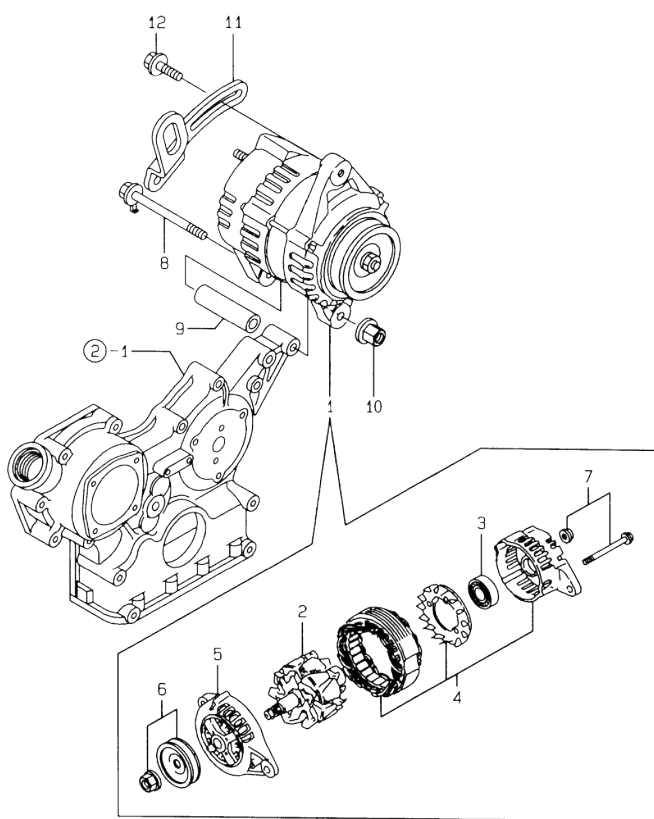


X-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26116-120252	BOLT, M12X 25 PLATED	2							
2	1	124520-77012	STARTER, P1.0	1							
3	2	X0281007680	YOKE ASSY	1							
4	3	X0280996180	STARTER KIT	2							
5	2	X0285105190	HOLDER ASSY	1							
6	3	X0285205030	SPRING	4							
7	2	X0282005871	ARMATURE ASSY	1							
8	2	X0283009160	CLUTCH ASSY	1							
9	2	X2284008090	HOUSING ASSY	1							
10	3	X9491050100	BEARING, NEEDLE	1							
11	2	X0285005770	FRAME ASSY	1							
12	3	X9491040990	BEARING	1							
13	3	X0280626010	COVER	1							
14	2	X0284105010	BEARING ASSY	1							
15	3	X9491034330	BEARING	1							
16	2	X0286105050	SHAFT ASSY	1							
17	3	X9491034320	BEARING	1							
18	2	X0286305010	GEAR	3							
19	2	X0286355010	GEAR	1							
20	2	X0287405140	LEVER	1							
21	2	X0534007800	SWITCH ASSY	1							
22	2	X9055715000	RING	1							
23	2	X9490721360	RING	1							
24	2	X0280210331	NUT	1							
25	2	X9490138110	WASHER	1							
26	2	X9490138090	WASHER	1							
27	2	X9490138100	WASHER	1							
28	2	X0284525010	PLATE	1							
29	2	X9490562360	NUT	1							
30	2	X9490560750	NUT	2							
31	2	X9490423520	BOLT, THROUGH	2							
34	2	X9490065670	SCREW, M4X6	2							
35	2	X0280335360	COVER, TERMINAL	1							
36	2	X1289510130	NUT	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:Q'ty Change

16. GENERATOR



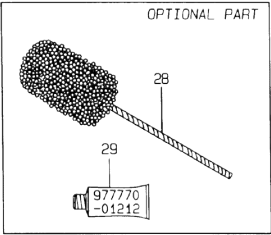
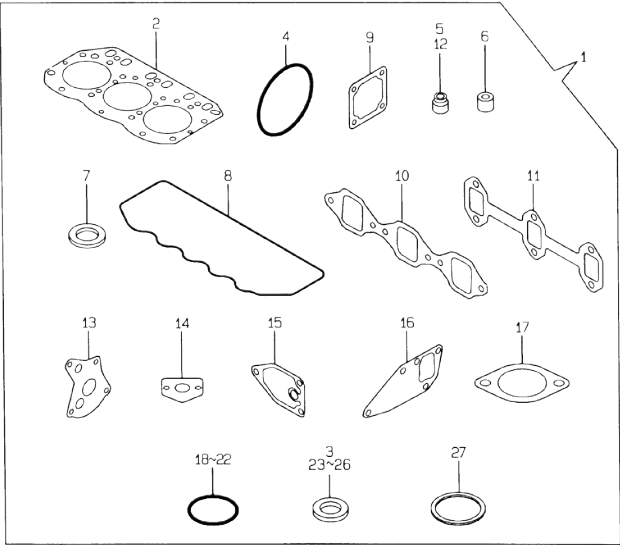
				(A)=3TNE78A-AK						(D)=		
				(B)=						(E)=		
				(C)=						(F)=		
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119836-77201	GENERATOR	1								
2	2	129612-77700	ROTOR ASSY	1								
3	2	129612-77710	BEARING, BALL	1								
4	2	119836-77920	BRACKET ASSY	1								
5	2	129612-77730	BRACKET ASSY, FILTER	1								
6	2	129612-77740	PULLEY	1								
7	2	129612-77750	SCREW KIT	1								
8	1	129136-77251	BOLT, M8X110	1								
9	1	119820-77340	PIECE, DISTANCE	1								
10	1	129612-77260	NUT, ALTERNATOR	1								
11	1	170122-77330	ADJUSTER	1								
12	1	119810-77340	BOLT, ADJUSTER	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:Q'ty Change

OCV10-M76400

Fig.17. GASKET SET

17.GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719818-92670	GASKET SET	1							1
2	2	119818-01330	GASKET, HEAD	1							
3	2	22190-080002	WASHER, SEAL 6	7							
4	2	121850-51960	O-RING	1							
5	2	124160-11340	SEAL, VALVE STEM	3							
6	2	119625-11870	PROTECTOR, NOZZLE	3							
7	2	119625-11880	SEAT, NOZZLE	3							
8	2	119865-11310	GASKET, BONNET	1							
9	2	129150-77511	GASKET	1							
10	2	119810-12111	GASKET, MANIFOLD	1							
11	2	119810-13110	GASKET	1							
12	2	124950-11340	SEAL, VALVE STEM	3							
13	2	129150-32020	GASKET, PUMP	1							
14	2	129150-35041	GASKET	1							
15	2	129150-35111	GASKET	1							
16	2	129486-42050	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	22190-100002	WASHER, SEAL 10	2							
24	2	124465-44950	GASKET, 16	2							
25	2	129155-52050	GASKET	1							
26	2	22190-120002	WASHER, SEAL 12	4							
27	2	129150-49811	GASKET, THERMOSTAT	1							
28	1	129400-92420	HONE	1							1
29	1	977770-01212	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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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
105025-59750	13	48
	14	19
110250-55610	14	6
114250-39450	9	38
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119131-18320	6	4
119620-01750	3	2
119620-02020	1	12
119620-44741	10	28
119625-11870	4	38
	17	6
119625-11880	4	39
	17	7
119625-11900	4	40
119640-01640	3	7
119653-77950	12	80
119660-61901	12	56
119808-12520	5	15
119808-12530	5	16
119808-12540	5	17
119810-01200	1	21
119810-01730	3	5
119810-01770	3	6
119810-01780	3	14
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	1
	17	10
119810-13110	6	2
	17	11

Parts No.	Fig. No.	Ref. No.
119810-14400	7	2
119810-14580	7	3
119810-23200	8	27
119810-23600	8	28
119810-23610	8	30
119810-23910	8	26
119810-35300	9	16
119810-39200	9	29
119810-42001	10	1
119810-51040	11	6
119810-55340	14	3
119810-55650	14	8
119810-77340	16	12
119811-59810	13	30
119811-59820	13	31
119811-59830	13	32
119813-21000	8	1
119813-22300	8	21
119818-01330	1	22
	17	2
119818-22090	8	15
119818-22510	8	17
119818-22900	8	32
119818-22950	8	34
119820-77340	16	9
119833-55620	14	1
119836-77201	16	1
119836-77920	16	4
119840-59500	13	49
119840-59560	13	51
119840-59570	13	35
119843-61540	12	46
119865-11200	4	26
119865-11310	4	51
	17	8
119865-21600	8	14
119888-01600	3	1
119888-13101	6	1
119888-21590	8	12
121023-01550	2	24
121111-21501	8	11
121250-44901	10	22
121250-55620	14	7
121250-59550	13	34
121254-55510	14	4
121450-01560	2	5
121450-42450	10	24
121520-34810	9	14
121521-12400	5	8
121550-49111	10	19

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121850-21680	8	10
121850-51960	2	12
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122117-51560	11	50
122710-51090	11	10
124060-11800	4	10
124066-59100	13	33
		50
124160-01751	2	6
	4	56
124160-01910	1	4
		14
124160-11340	4	22
	17	5
124160-11360	4	44
124160-39140	9	28
124240-01871	2	7
124465-44950	10	23
	17	24
124520-77012	15	2
124550-51350	11	32
124550-51370	11	33
124550-59820	9	34
124550-59830	9	33
124550-66370	12	58
124574-44761	10	29
124766-59050	13	47
	14	15
		18
124950-11340	4	23
	17	12
124950-51190	11	17
128170-51300	11	27
129001-01250	1	7
129001-32001	9	1
129001-35300	9	24
129001-91841	2	20
129052-61050	12	5
129052-61060	12	6
129052-61070	12	7
129052-61390	12	30
129100-01580	3	18
		19
	8	2
129100-25061	7	9
129100-52100	11	93
129100-59951	13	37
129100-61400	12	16
129100-61440	12	76

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129102-53000	13	2
129120-77501	5	4
129136-77251	16	8
129150-02450	7	4
129150-03020	4	47
129150-03070	4	48
129150-03080	4	49
129150-03100	2	10
129150-11230	4	34
129150-11280	4	32
129150-11750	4	36
129150-14101	7	6
129150-14200	7	1
129150-21200	8	4
129150-25101	7	10
129150-25900	7	15
129150-25920	7	13
129150-32020	9	39
	17	13
129150-35041	9	15
	17	14
129150-35101	9	21
129150-35111	9	22
	17	15
129150-35151	9	23
129150-35350	9	25
129150-42320	10	11
129150-49811	10	27
	17	27
129150-59120	13	25
129150-59131	13	28
129150-59580	13	36
129150-77511	5	5
	17	9
129155-11260	4	30
129155-11270	4	31
129155-49800	10	26
129155-51020	11	5
129155-51050	11	8
129155-51060	11	9
129155-51140	11	14
129155-51180	11	16
129155-51200	11	18
129155-51270	11	25
129155-51280	11	26
	12	2
129155-51320	11	30
129155-51340	11	31
129155-51370	11	34
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129155-51400	11	37	129500-61650	12	78	22287-120000	12	63	26106-080252	4	41
129155-51410	11	38	129500-61700	12	79	22351-040010	8	7		5	3
129155-51420	11	39	129555-59510	14	16	22351-050010	11	84	26106-080352	3	16
129155-51450	11	40	129608-12501	5	13	22351-060012	4	25		5	6
129155-51500	11	45	129608-12511	5	14	22372-040000	12	64		9	20
129155-51521	11	46	129608-12560	5	9	22512-070140	7	7		10	15
129155-51530	11	47	129612-77260	16	10		8	5	26106-080452	2	18
129155-51540	11	48	129612-77700	16	2	23000-060000	5	10		3	11
129155-51550	11	49	129612-77710	16	3	23876-010000	1	6		7	14
129155-51570	11	52	129612-77730	16	5	23876-030000	4	13	26106-080502	4	42
129155-51580	11	53	129612-77740	16	6		10	12	26106-080552	2	19
129155-51591	11	54	129612-77750	16	7	23887-100002	12	65		10	16
129155-51600	11	55	129619-12210	5	7	24101-063034	11	85	26106-080602	6	3
129155-51701	11	74	129792-22400	8	22	24311-000120	4	55	26116-050302	11	89
129155-51710	11	75	129795-01800	2	3		17	18	26116-120252	15	1
129155-51751	11	76	129795-01950	2	9	24311-000160	2	13	26206-100252	3	3
129155-51760	11	77	129795-02411	1	13		9	26	26206-100302	3	4
129155-51790	11	78	129795-21661	8	9		17	19	26216-060302	4	14
129155-51930	11	80	129795-49551	10	21	24311-000320	2	14	26216-080602	6	6
129155-51940	11	81		17	17		4	57	26226-080182	4	37
129155-52050	11	92	129900-07900	4	2		17	20	26366-060002	4	43
	17	25	158552-61900	12	66 -1	24311-240100	14	10	26366-080002	2	21
129155-61120	12	8	170122-77330	16	11	24341-000160	11	86		6	5
129155-61130	12	9	171051-01921	1	5	24341-000240	2	25		12	81
129155-61140	12	10	171301-12701	5	2		17	22	26450-060252	9	40
129155-61202	12	11	171301-21650	8	8	24341-000280	12	66	26687-120002	12	82
129155-61341	12	15	171350-03090	4	1	24341-000500	4	53	26716-060002	11	7
129155-61350	12	73	171420-34820	9	41		17	21	26716-120002	7	17
129155-61360	12	74	174307-51170	11	15	26014-060252	10	30	26756-060002	12	72
129155-61430	12	19	174307-51560	11	51	26014-080702	14	11	26776-120002	12	75
129155-61450	12	23	174307-51700	12	32	26022-050122	11	87	27241-120000	1	8
129155-61460	12	24	22117-040000	12	59	26022-060162	11	88	27241-220000	4	15
129155-61470	12	77	22190-060003	12	60	26106-060102	12	67	27241-300000	1	9
129155-61480	12	25	22190-080002	2	11		68		27241-400000	4	16
129155-61830	12	4			22		69		27310-070001	4	21
129155-61950	12	57		9	35	26106-060142	12	70	719810-01500	2	1
129156-51910	11	79			36	26106-060162	2	26	719810-01650	3	12
129210-59040	14	14		17	3	26106-060202	12	71	719810-11521	4	45
129210-59130	13	46	22190-100002	9	37	26106-080122	2	15	719810-11650	4	33
	14	17		12	61	26106-080142	7	8	719810-23100	8	23
129211-42290	10	17		17	23	26106-080162	2	16	719818-11700	4	4
129350-49530	10	20	22190-120002	12	62		23		719818-92670	17	1
129400-01520	2	4		13	45		3	10	719822-01560	1	1
129400-92420	17	28		14	20		4	3	719822-51400	11	1
129403-42380	10	18		17	26			54	729102-53100	13	1
129411-51200	11	11	22190-160002	11	4	26106-080182	5	11	977770-01212	2	8
129412-61500	12	31	22190-220002	3	9			12		3	17
129486-01670	3	15	22217-050000	11	82	26106-080202	2	17		17	29
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X0284105010	15	14
X0284525010	15	28
X0285005770	15	11
X0285105190	15	5
X0285205030	15	6
X0286105050	15	16
X0286305010	15	18
X0286355010	15	19
X0287405140	15	20
X0534007800	15	21
X1289510130	15	36
X2284008090	15	9
X9055715000	15	22
X9490065670	15	34
X9490138090	15	26
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