

0CV10-M43700EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 4TNE84T-NS engine manufactured since April, 1995.
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)	Q'TY		I		R			
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1									
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1				N					
		(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	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	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	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$ New	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

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

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

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

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

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

⑤ Remarks

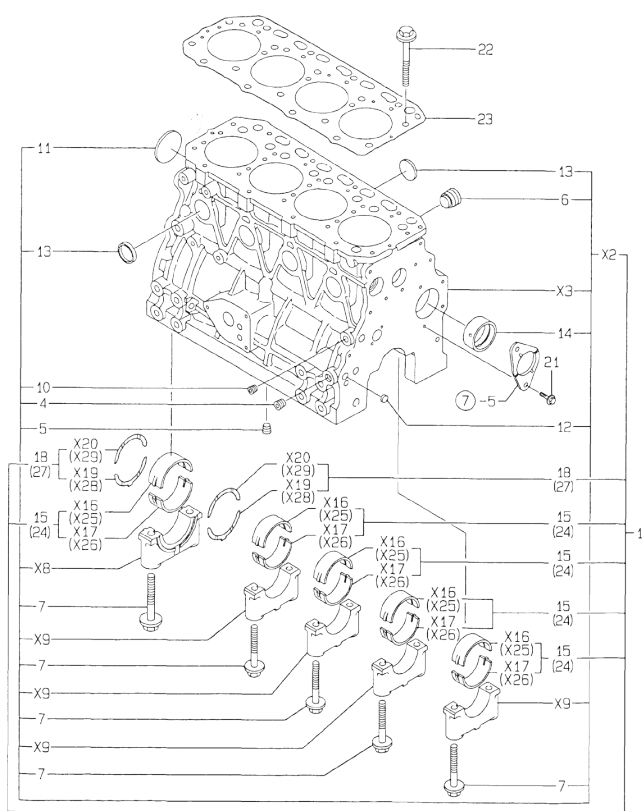
Figures or alphabets (symbols) are entered in the remarks column.

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

Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
ENGINE 4TNE84T-NS			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING &LUB.OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUC.MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
7.	CAMSHAFT & DRIVING GEAR		
8.	TURBOCHARGER		
9.	CRANKSHAFT & PISTON		
10.	LUB.OIL SYSTEM		
11.	LUB.OIL LINE		
12.	COOLING WATER SYSTEM		
13.	FUEL INJECTION PUMP		
14.	FUEL INJECTION LINE		
15.	FUEL LINE		
16.	GOVERNOR		
17.	STARTING MOTOR		
18.	GENERATOR		
19.	GASKET SET(OPTIONAL)		

1. CYLINDER BLOCK



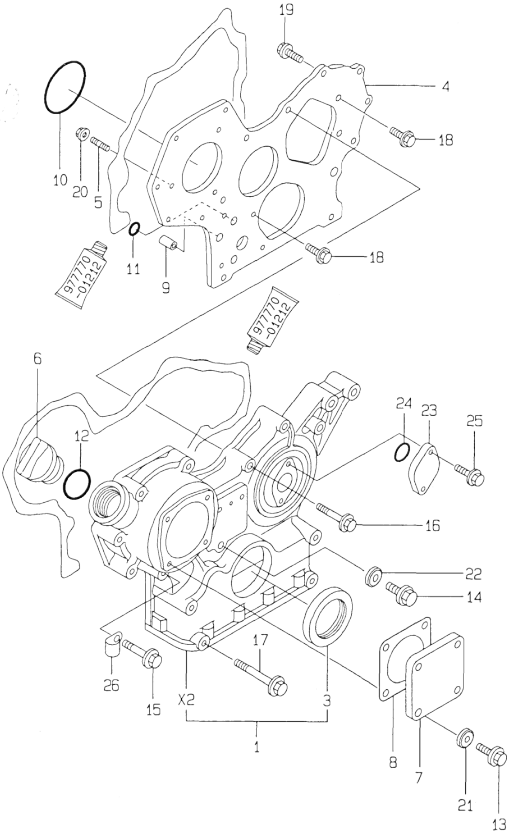
Remarks
(1) UNDER-SIZED(U.S=0.25)PART.
(2) OVER-SIZED(O.S=0.25)PART.
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

				(A)=4TNE84T-NS (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729638-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	2							
5	3	124160-01910	PLUG, PT1/4	1							
6	3	171051-01921	PLUG, NPTF1	1							
7	3	129150-02020	BOLT, METAL CAP	10							
10	3	23871-010000	PLUG, R01	1							
11	3	27231-500000	PLUG 50	1							
12	3	27241-120000	PLUG, 12	2							
13	3	27241-300000	PLUG 30	8							
14	3	129795-02411	BUSH, CAMSHAFT	1							
15	2	129001-02800	BEARING, MAIN	5							
18	2	129150-02930	BEARING, THRUST	2							
21	1	26106-080162	BOLT, M8X 16 PLATED	2							
22	1	129150-01200	BOLT, HEAD	18							
23	1	129408-01330	GASKET, HEAD	1							G
24	1	129150-02870	BEARING, 0.25 US	5							1
27	1	129150-02940	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							G
9	1	129795-01950	PIPE, KNOCK L=18	2							
10	1	121850-51960	O-RING	1							G
11	1	24311-000160	O-RING, 1AP16.0	2							G
12	1	24311-000320	O-RING, 1AP32.0	1							G
13	1	26106-080122	BOLT, M8X 12 PLATED	4							
14	1	26106-080162	BOLT, M8X 16 PLATED	1							
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	26106-080162	BOLT, M8X 16 PLATED	3							
19	1	26106-080202	BOLT, M8X 20 PLATED	2							
20	1	26366-080002	NUT, M8	3							
21	1	22190-080002	WASHER, SEAL 6	4							G
22	1	22190-080002	WASHER, SEAL 6	1							G
23	1	121023-01550	COVER	1							
24	1	24341-000240	O-RING, 1AS24.0	1							G
25	1	26106-060122	BOLT, M6X 12 PLATED	2							
26	1	129150-03100	RETAINER, PIPE	1							

Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{RIS}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{RIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.3. FLYWHEEL HOUSING &LUB.OIL SUMP



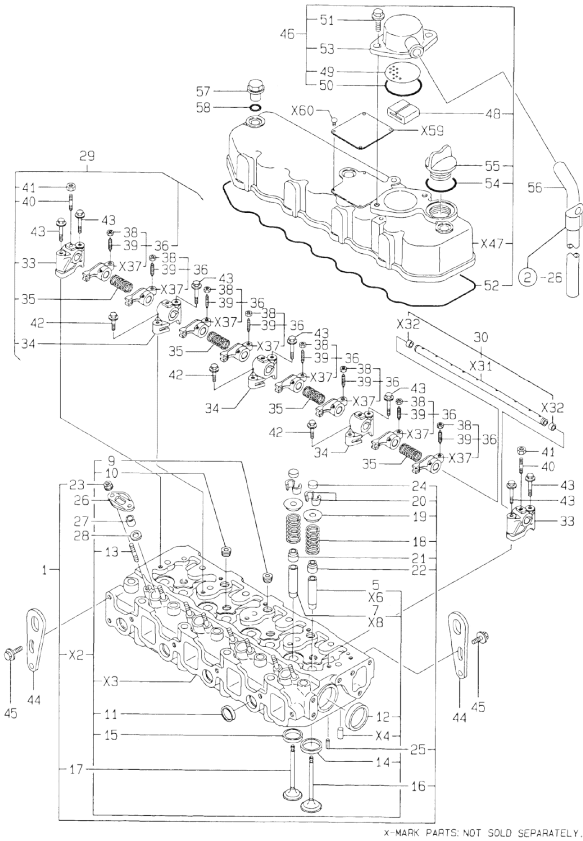
N:Old $\xrightarrow{\text{yes}} \text{New}$, Q:Old $\xrightarrow{\text{no}} \text{New}$, R:Old $\xrightarrow{\text{yes}} \text{New}$, S:Old $\xrightarrow{\text{no}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.4. CYLINDER HEAD & BONNET

4.CYLINDER HEAD & BONNET



X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks

(1) REPAIR PART.
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

(A)=4TNE84T-NS
(B)=
(C)=

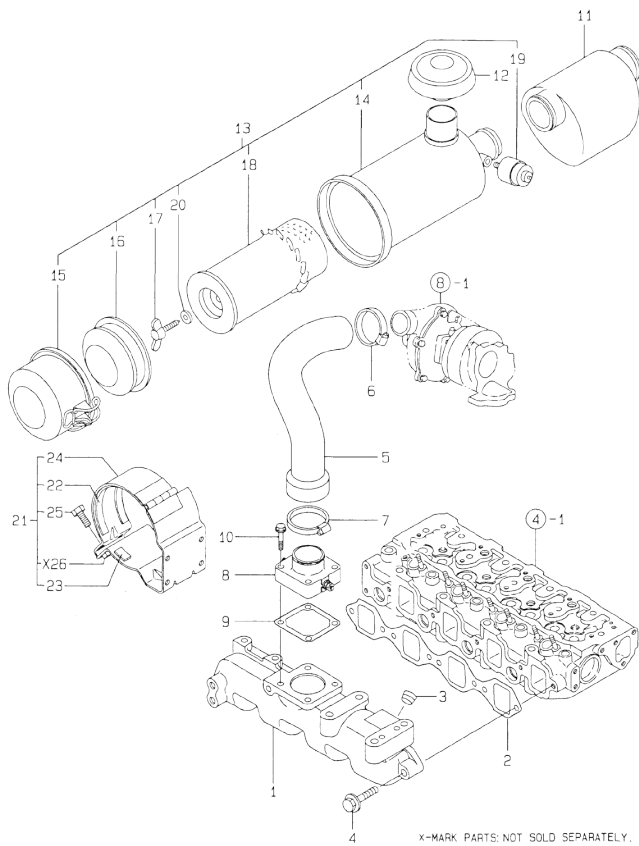
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729408-11700	HEAD ASSY, CYLINDER	1							
5	3	120130-11860	GUIDE, VALVE	4							1
7	3	129150-11810	GUIDE, VALVE	4							1
9	3	121850-11860	PLUG, PT1/4	3							
10	3	23871-030000	PLUG, R03	4							
11	3	27241-220000	PLUG, 22	4							
12	3	27241-400000	PLUG, 40	2							
13	3	26216-060202	STUD, M6X 20	8							
14	3	129470-11080	SEAT, INTAKE VALVE	4							
15	3	129470-11090	SEAT, EXHAUST VALVE	4							
16	2	129100-11100	VALVE, INTAKE	4							
17	2	129100-11130	VALVE, EXHAUST	4							
18	2	129795-11120	SPRING, VALVE	8							
19	2	129795-11180	RETAINER, SPRING	8							
20	2	27310-080001	COTTER, 8	8							
21	2	121400-11340	SEAL, VALVE STEM	4							G
22	2	124460-11340	SEAL, VALVE STEM	4							G
23	2	26368-060002	NUT, M6	8							
24	2	129150-11370	CAP, VALVE	8							
25	2	22351-060012	PIN, SPRING 6.0X12	2							
26	1	119625-11900	RETAINER, NOZZLE	4							
27	1	119625-11871	PROTECTOR, NOZZLE	4							G
28	1	119625-11880	SEAT, NOZZLE	4							G
29	1	129555-11241	SHAFT ASSY, ROCKER	1							
30	2	129550-11290	SHAFT, ROCKER ARM	1							
33	2	129155-11260	SUPPORT, ROCKER ARM	2							
34	2	129155-11270	SUPPORT, ROCKER ARM	3							
35	2	129150-11280	SPRING	4							
36	2	729402-11650	ARM ASSY, ROCKER	8							
38	3	129150-11750	NUT, M8	8							
39	3	129150-11230	SCREW, VALVE ADJUST	8							
40	2	26226-080182	STUD, M8X 18	3							
41	2	26756-080002	NUT, LOCK M8	3							
42	1	26106-080252	BOLT, M8X 25 PLATED	3							
43	1	26106-080502	BOLT, M8X 50 PLATED	7							
44	1	124736-07900	LIFTER	2							
45	1	26106-080142	BOLT, M8X 14 PLATED	4							
46	1	129400-11350	BONNET ASSY, HEAD	1							
48	2	129150-03070	BAFFLE, BREATHER	1							
49	2	129150-03080	PLATE, BAFFLE	1							
50	2	24341-000500	O-RING, 1AS50.0	1							G
51	2	26106-080162	BOLT, M8X 16 PLATED	2							
52	2	129550-11310	GASKET, BONNET	1							G
53	2	129150-03020	COVER, BREATHER	1							
54	2	24311-000320	O-RING, 1AP32.0	1							G
55	2	124160-01751	COVER, FILLER	1							
56	1	129150-03090	HOSE, ID16X2T	1							
57	1	124160-11360	KNOB	3							
58	1	24311-000120	O-RING, 1AP12.0	3							G

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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Fig.5. SUC.MANIFOLD & AIR CLEANER

5.SUC.MANIFOLD & AIR CLEANER



Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-12100	MANIFOLD, AIR INTAKE	1							
2	1	129550-12111	GASKET, MANIFOLD	1							G
3	1	23871-030000	PLUG, R03	1							
4	1	26106-080352	BOLT, M8X 35 PLATED	5							
5	1	129403-12090	PIPE, AIR INTAKE	1							
6	1	23000-054000	CLAMP, 54	1							
7	1	23000-060000	CLAMP, 60	1							
8	1	129120-77501	HEATER	1							
9	1	129150-77511	GASKET	1							G
10	1	26106-080352	BOLT, M8X 35 PLATED	4							
11	1	121855-12060	SILENCER ASSY	1							
12	1	121521-12400	CAP, RAIN	1							
13	1	129136-12500	CLEANER ASSY, AIR	1							
14	2	129322-12521	BODY, AIR CLEANER	1							
15	2	129322-12531	PAN, DUST	1							
16	2	121120-12541	RETAINER, ELEMENT	1							
17	2	121120-12561	BOLT	1							
18	2	121120-12901	ELEMENT	1							
19	2	121492-12950	INDICATOR	1							
20	2	121120-12571	WASHER, SEAL	1							
21	1	129403-12560	BRACKET, AIR CLEANER	1							
22	2	129403-12570	SEAT, RUBBER A	2							
23	2	129403-12580	SEAT, RUBBER B	4							
24	2	129403-12590	BRACKET	1							
25	2	26013-080402	BOLT, M8X 40	2							

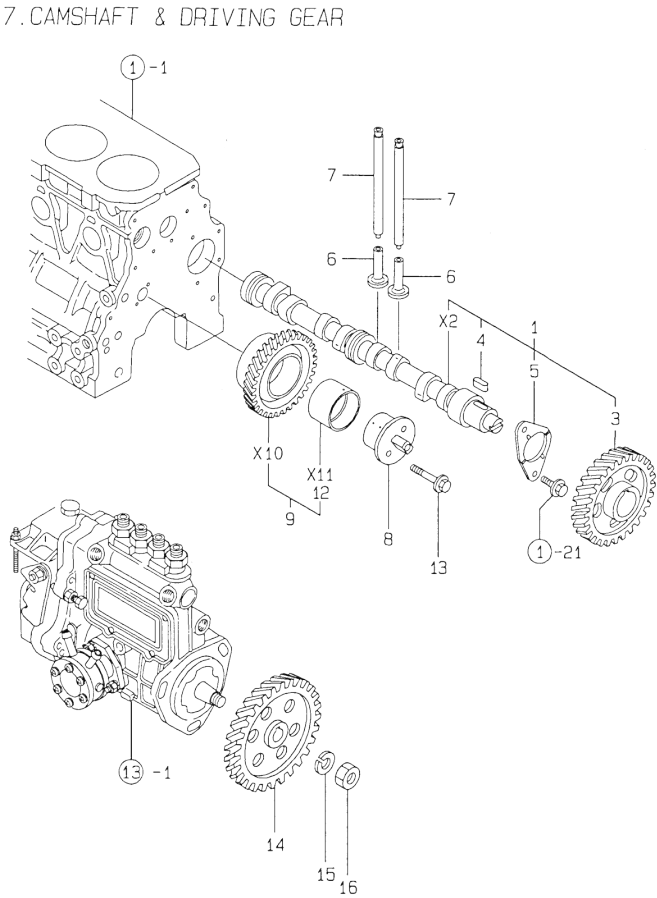
This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or engine part. The main assembly is shown at the bottom, with various sub-components and fasteners labeled with callouts. The callouts are as follows:

- 1**: A large, rectangular base plate or housing.
- 2**: A small, rectangular component, possibly a gasket or seal.
- 3**: A long, thin bolt or screw.
- 4**: A small, rectangular component, possibly a gasket or seal.
- 5**: A small, rectangular component, possibly a gasket or seal.
- 6**: A small, rectangular component, possibly a gasket or seal.
- 7**: A large, curved component, possibly a hose or pipe.
- 8**: A small, rectangular component, possibly a gasket or seal.
- 9**: A small, rectangular component, possibly a gasket or seal.
- B-1**: A small, rectangular component, possibly a gasket or seal.
- B-50**: A small, rectangular component, possibly a gasket or seal.
- B-51**: A small, rectangular component, possibly a gasket or seal.
- B-52**: A small, rectangular component, possibly a gasket or seal.

The diagram shows the assembly of these components into a single unit. The main assembly is shown at the bottom, with various sub-components and fasteners labeled with callouts. The callouts are as follows:

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129550-13110	GASKET	1							
2	1	129403-13120	MANIFOLD, EXHAUST	1							G
3	1	26106-080652	BOLT, M8X 65 PLATED	3							
4	1	26106-080852	BOLT, M8X 85 PLATED	1							
5	1	26106-081002	BOLT, M8X100 PLATED	4							
6	1	26216-080222	STUD, M8X 22	4							
7	1	129484-13520	SILENCER	1							
8	1	129638-13550	PIPE	1							
9	1	129403-18080	GASKET	1							G

Fig.7. CAMSHAFT & DRIVING GEAR



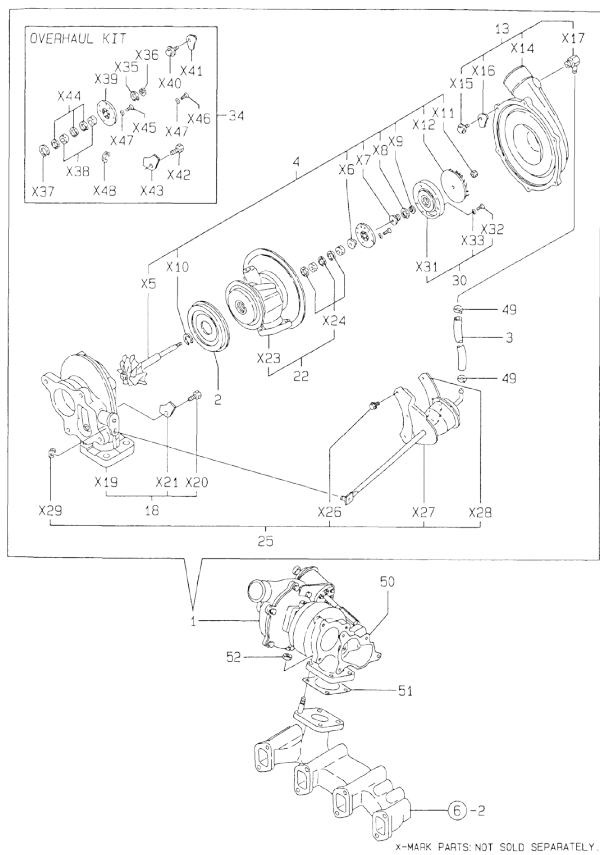
Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729402-14580	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	129150-14200	TAPPET	8							
7	1	129150-14400	ROD, PUSH L=178	8							
8	1	129100-25061	SHAFT, IDLE	1							
9	1	129150-25101	GEAR ASSY, IDLE	1							
12	2	129150-25920	BUSH, IDLE GEAR	1							1
13	1	26106-080452	BOLT, M8X 45 PLATED	2							
14	1	129150-25900	GEAR, PUMP	1							
15	1	22217-120000	WASHER, SPRING 12	1							
16	1	26716-120002	NUT, M12	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.8. TURBOCHARGER

8. TURBOCHARGER



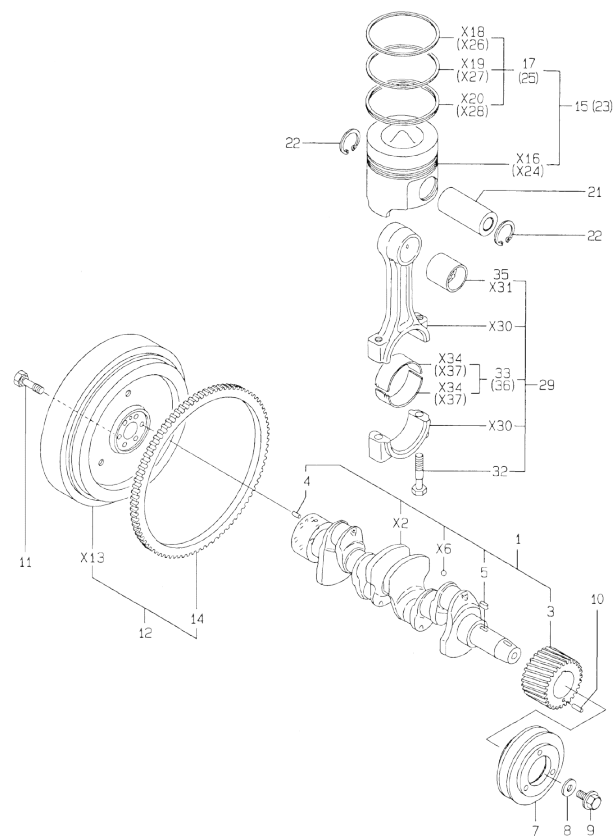
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129404-18020	TURBINE, RHB51	1							
2	2	129404-18720	PROTECTOR, HEAT	1							
3	2	129404-18750	HOSE	1							
4	2	129404-18770	ROTOR SET	1							
13	2	129404-18780	HOUSING SET, BLOWER	1							
18	2	129404-18790	HOUSING ASSY	1							
22	2	129404-18800	HOUSING SET	1							
25	2	129404-18811	CONTROLLER ASSY	1							
30	2	129404-18820	PLATE	1							
34	2	129404-18830	OVERHAUL KIT	1							
49	2	23080-012000	CLAMP, 12	2							
50	1	129403-18080	GASKET	1							G
51	1	129322-18100	GASKET	1							G
52	1	194990-22050	NUT, M8	4							

Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

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Fig.9. CRANKSHAFT & PISTON

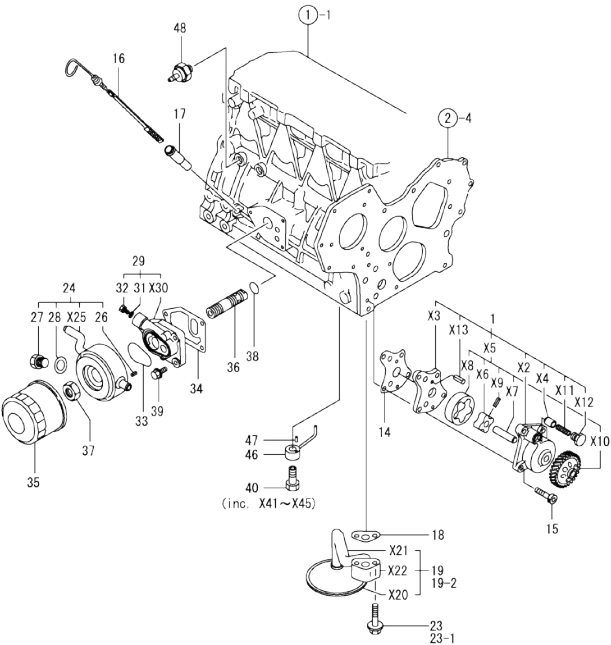
9.CRANKSHAFT & PISTON



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-21000	CRANKSHAFT ASSY	1							
3	2	129150-21200	GEAR, CRANKSHAFT	1							
4	2	129100-01580	PIN, M8X16	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	171301-21650	V-PULLEY	1							
8	1	129795-21661	WASHER	1							
9	1	121850-21680	BOLT	1							
10	1	22351-040010	PIN, SPRING 4.0X10	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129638-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	129002-22090	PISTON ASSY	4							
17	2	129002-22510	RING SET, PISTON	4							
21	1	129202-22300	PIN, PISTON D26 L70	4							
22	1	22252-000260	RING, 26	8							
23	1	129002-22900	PISTON ASSY, 0.25 OS	4							1
25	2	129002-22950	RING SET, 0.25 OS	4							1
29	1	729402-23100	ROD ASSY, CONNECTING	4							
32	2	121550-23200	BOLT, CONNECTING ROD	8							
33	2	129150-23600	BEARING, CRANK PIN	4							
35	2	129100-23910	BEARING, PISTON PIN	4							2
36	1	129150-23610	BEARING, 0.25 US	4							3

OCV10-M43700

Fig.10. LUB.OIL SYSTEM



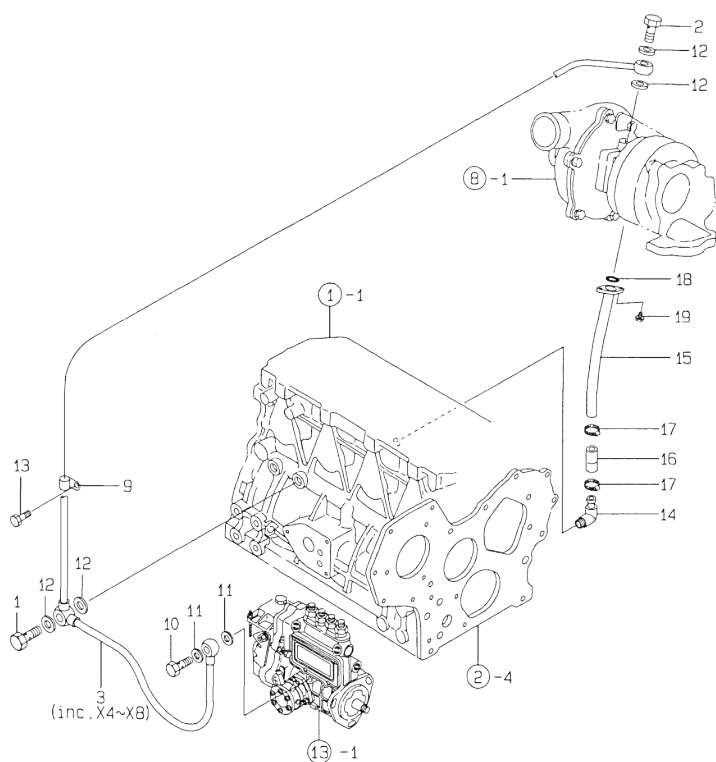
x-MARK PARTS:NOT SOLD SEPARATELY.

Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129418-32000	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							G
15	1	26450-060252	BOLT, M6X 25	4							
16	1	121520-34800	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35041	GASKET	1							G
18-1	1	129150-35042	GASKET	1							N
(A=EZZZZZ)											
19	1	129436-35090	PIPE ASSY, OIL INLET	1							
19-1	1	129436-35091	PIPE ASSY, OIL INLET	1							N
(A=EZZZZZ)											
19-2	1	129436-35070	PIPE ASSY, LUB. OIL	1							S
(A=EZZZZZ)											
23	1	26106-080352	BOLT, M8X 35 PLATED	2							
23-1	1	26106-080552	BOLT, M8X 55 PLATED	2							S
(A=EZZZZZ)											
24	1	129120-33001	COOLER ASSY, OIL	1							
26	2	129120-33040	PIN	2							
27	2	129120-33051	PLUG, DRAIN	1							
28	2	129120-33060	GASKET	1							
29	1	129120-35001	BRACKET ASSY	1							
31	2	23414-100000	GASKET, 10X1.0	1							G
32	2	23881-100002	PLUG, 10	1							
33	1	129120-35110	GASKET	1							G
34	1	129120-35121	GASKET	1							G
35	1	129150-35151	FILTER, D80XL80	1							
36	1	129407-35300	BOLT, FILTER	1							
37	1	129150-35350	NUT	1							
38	1	24311-000160	O-RING, 1AP16.0	1							G
39	1	26106-080252	BOLT, M8X 25 PLATED	3							
40	1	129792-39410	VALVE ASSY, CHECK	4							
46	1	129553-39650	NOZZLE	4							
47	1	22351-030010	PIN, SPRING 3.0X10	4							
48	1	121252-39450	SWITCH, 0.5KG	1							

N:Old $\frac{YBS}{10}$ New, Q:Old $\frac{H}{10}$ New, R:Old $\frac{YBS}{10}$ New, S:Old $\frac{H}{10}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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11.LUB.OIL LINE



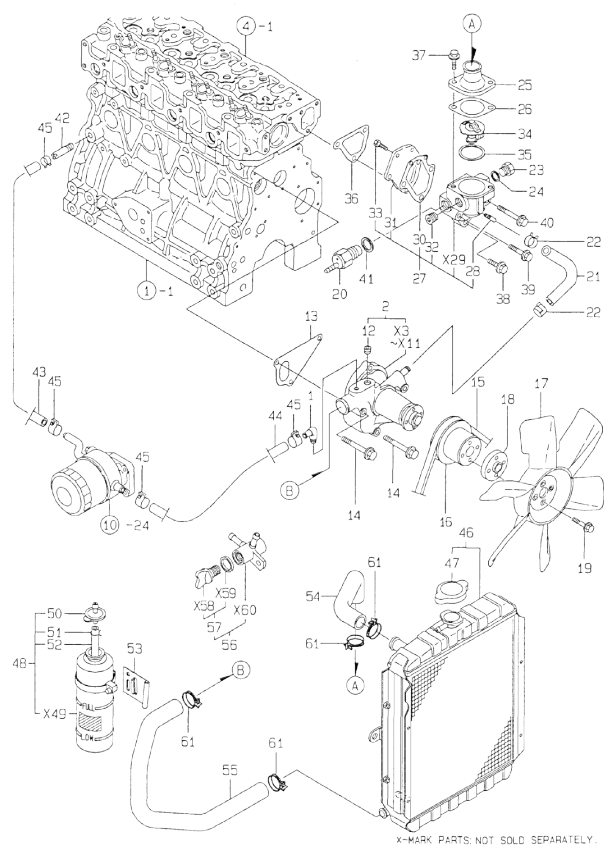
Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

No.	Lev.	Parts No.	Description	(A)=4TNE84T-NS			(D)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-39140	BOLT, PIPE JOINT M10	1							
2	1	121252-39150	BOLT, JOINT M10X1.5	1							
3	1	129403-39460	PIPE ASSY, OIL	1							
9	1	124223-39900	RETAINER	1							
10	1	124550-59820	BOLT, PIPE JOINT M8	1							
11	1	22190-080002	WASHER, SEAL 6	2							G
12	1	23414-100000	GASKET, 10X1.0	4							G
13	1	26106-080102	BOLT, M8X 10 PLATED	1							
14	1	124070-13300	ELBOW, PT3/8	1							
15	1	129503-39600	PIPE, OIL	1							
16	1	129506-39610	JOINT, RUBBER	1							
17	1	23000-025000	CLAMP, 25	2							
18	1	24314-000160	O-RING, 4CP16.0	1							G
19	1	26106-060162	BOLT, M6X 16 PLATED	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

Fig.12. COOLING WATER SYSTEM

12.COOLING WATER SYSTEM



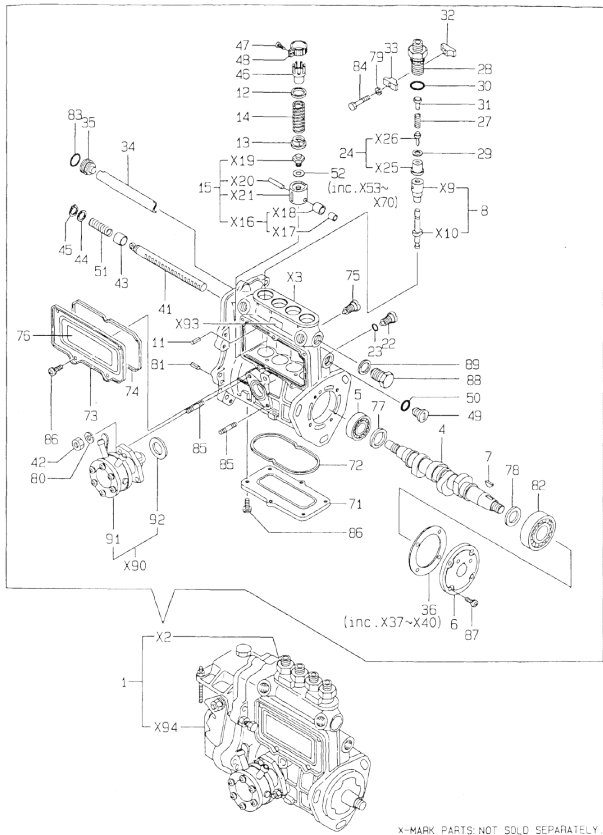
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129103-49301	ELBOW, PT1/4	1							
2	1	129100-42002	PUMP ASSY, WATER	1							
12	2	23871-030000	PLUG, R03	1							
13	1	129100-42020	GASKET, WATER PUMP	1							G
14	1	26106-080602	BOLT, M8X 60 PLATED	3							
15	1	119831-42290	V-BELT, A37.5	1							
16	1	129155-42350	V-PULLEY	1							
17	1	129120-44741	FAN, COOLING 360	1							
18	1	124574-44761	SPACER, FAN	1							
19	1	26014-060252	BOLT, M6X 25	4							
20	1	124250-49351	SENSOR	1							
21	1	129132-49050	PIPE, WATER	1							
22	1	23000-016000	CLAMP, 16	2							
23	1	121450-42450	PLUG, M16	1							
24	1	124465-44950	GASKET, 16	1							G
25	1	129350-49530	COVER, THERMOSTAT	1							
26	1	129795-49551	GASKET	1							G
27	1	129100-49800	CASE ASSY,THERMOSTAT	1							
28	2	124770-11770	JOINT, PIPE PT1/8	1							
30	2	129100-49820	GASKET	1							
31	2	129100-49830	COVER, THERMOSTAT	1							
32	2	23871-030000	PLUG, R03	1							
33	2	26116-060162	BOLT, M6X 16 PLATED	2							
34	1	129155-49800	THERMOSTAT, 71	1							
35	1	129150-49811	GASKET, THERMOSTAT	1							G
36	1	129100-49840	GASKET	1							G
37	1	26106-080202	BOLT, M8X 20 PLATED	2							
38	1	26106-080252	BOLT, M8X 25 PLATED	1							
39	1	26106-080502	BOLT, M8X 50 PLATED	1							
40	1	26106-080602	BOLT, M8X 60 PLATED	1							
41	1	129150-49360	GASKET	1							1
42	1	104207-44480	JOINT	1							
43	1	129120-49030	HOSE	1							
44	1	129403-49050	PIPE, WATER	1							
45	1	23000-022000	CLAMP, 22	4							
46	1	171460-44500	RADIATOR	1							
47	2	123682-44210	CAP, RADIATOR	1							
48	1	124450-44510	TANK ASSY, SUB	1							
50	2	124450-44530	CAP	1							
51	2	124450-44560	RETAINER	1							
52	2	23061-070230	PIPE, 7X 230	1							
53	1	121256-44600	BRACKET, SUB TANK	1							
54	1	171420-49010	PIPE, WATER	1							
55	1	171420-49020	PIPE, WATER	1							
56	1	129150-49100	COCK ASSY, 3-WAY	1							
57	2	129150-49080	COCK, DRAIN	1							
61	1	23010-050000	CLAMP, 50	4							

Remarks

(1) PACKED WITH ENGINE.
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

Fig.13. FUEL INJECTION PUMP

13.FUEL INJECTION PUMP



X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks

(1) GOVERNOR ASSY(FIG NO.16)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP ASSY(REF NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729638-51360	PUMP ASSY, INJECTION	1							1
4	3	129470-51040	CAMSHAFT	1							
5	3	129155-51050	BEARING, 17BM001D	1							
6	3	129155-51060	SUPPORT, CAMSHAFT	1							
7	3	122710-51090	KEY	1							
8	3	129506-51100	PLUNGER ASSY	4							
11	3	129155-51140	PIN	4							
12	3	174307-51170	RETAINER, SPRING A	4							
13	3	129155-51180	RETAINER, SPRING	4							
14	3	124950-51190	SPRING, PLUNGER	4							
15	3	129155-51200	TAPPET ASSY	4							
22	3	129155-51270	STOPPER, TAPPET	4							
23	3	129155-51280	O-RING, S6	4							
24	3	129100-51300	VALVE ASSY, DELIVERY	4							
27	3	129155-51320	SPRING, DELIVERY	4							
28	3	129155-51340	RETAINER	4							
29	3	124550-51350	GASKET, DELIVERY	4							
30	3	124550-51370	O-RING	4							
31	3	129155-51370	STOPPER, VALVE	4							
32	3	129155-51380	STOPPER	2							
33	3	129155-51390	STOPPER	2							
34	3	129555-51400	DEFLECTOR	1							
35	3	129155-51410	BOLT	1							
36	3	129155-51450	SHIM SET, ADJUSTING	1							
41	3	129555-51500	RACK, CONTROL	1							
42	3	26716-060002	NUT, M6	2							
43	3	129155-51521	BUSH, RACK	1							
44	3	129155-51530	SPACER	1							
45	3	129155-51540	CIRCLIP	1							
46	3	129155-51550	PINION, CONTROL	4							
47	3	122117-51560	SCREW	4							
48	3	174307-51560	PINION	4							
49	3	129155-51570	PLUG, M12	1							
50	3	129155-51580	O-RING	1							
51	3	129155-51591	SPRING, RACK	1							
52	3	129155-51600	SHIM SET, ADJUSTING	4							
71	3	129555-51700	COVER	1							
72	3	129555-51710	GASKET	1							
73	3	129555-51750	COVER	1							
74	3	129555-51760	GASKET	1							
75	3	129155-51790	STOOPER, RACK	1							
76	3	129156-51910	LABEL, CAUTION	1							
77	3	129155-51930	SPACER, T=3.25	1							
78	3	129155-51940	SPACER, T=1.5	1							
79	3	22217-050000	WASHER, SPRING 5	2							
80	3	22217-060000	WASHER, SPRING 6	2							
81	3	22351-050010	PIN, SPRING 5.0X10	2							
82	3	24101-063034	BEARING, BALL 6303	1							
83	3	24341-000160	O-RING, 1AS16.0	1							
84	3	26116-050302	BOLT, M5X 30 PLATED	2							
85	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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13. FUEL INJECTION PUMP

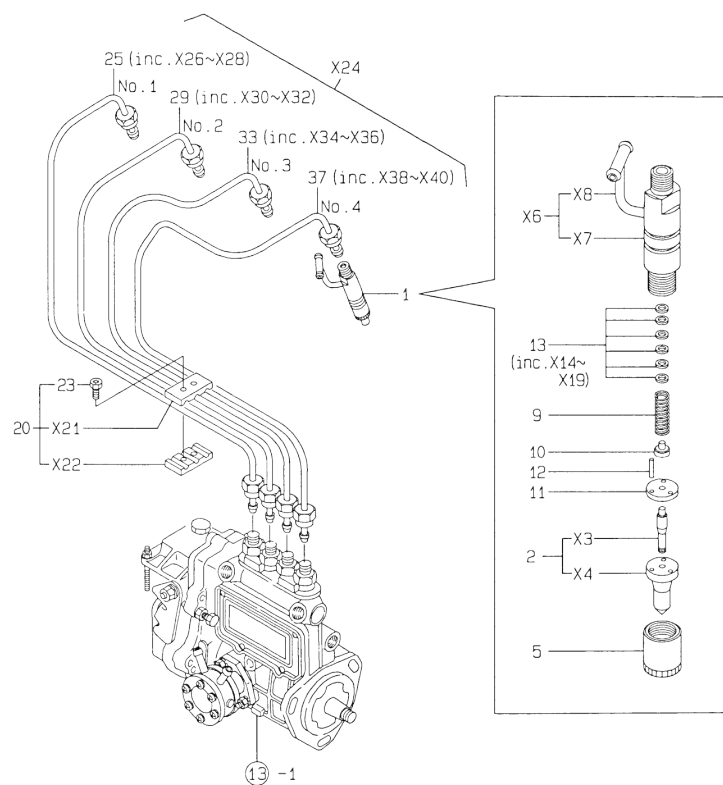


Remarks
(1) GOVERNOR ASSY(FIG NO.16)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP ASSY(REF NO.1).

				(A)=4TNE84T-NS					(D)=			I	R
				(B)=					(E)=				
				(C)=					(F)=				
No.	Lev.	Parts No.	Description	Q'ty									
				(A)	(B)	(C)	(D)	(E)	(F)				
86	3	26022-050102	SCREW, M5X10	11									
87	3	26022-060162	SCREW, M6X16	4									
88	3	129155-51420	PLUG, M16	1									
89	3	22190-160002	WASHER, SEAL 16	1									
91	3	129100-52100	PUMP ASSY, FUEL FEED	1									
92	3	129155-52050	GASKET	1									

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

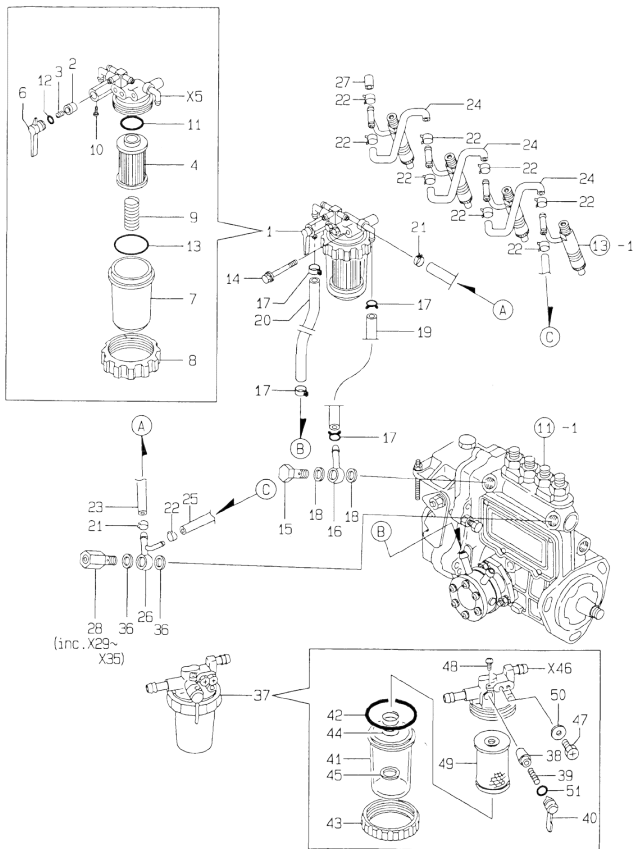
14.FUEL INJECTION LINE



				(A)=4TNE&4T-NS (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		I R
1	1	729137-53200	VALVE ASSY,INJECTION	4							
2	2	129503-53050	VALVE ASSY,INJECTION	4							
5	2	114250-53080	NUT, NOZZLE D16.95	4							
9	2	114250-53120	SPRING, NOZZLE	4							
10	2	114250-53130	SEAT, SPRING	4							
11	2	114250-53140	PLATE	4							
12	2	114250-53210	PIN	8							
13	2	114250-53400	SHIM SET	4							
20	1	129150-59120	RETAINER, PIPE	2							
23	2	129150-59131	BOLT, M4X14	4							
25	2	129400-59910	PIPE ASSY, INJECTION	1							
29	2	129400-59920	PIPE ASSY, INJECTION	1							
33	2	129400-59930	PIPE ASSY, INJECTION	1							
37	2	129400-59940	PIPE ASSY, INJECTION	1							

Fig.15. FUEL LINE

15.FUEL LINE

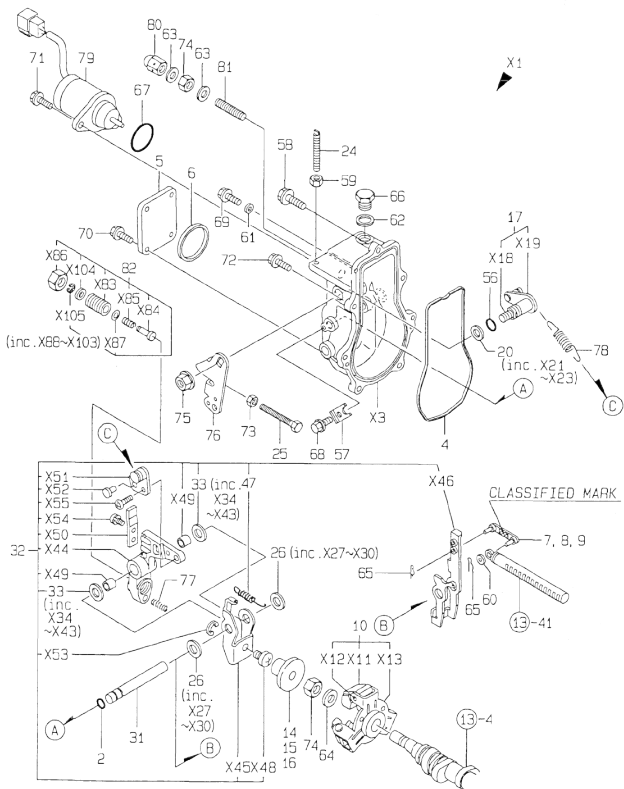


Remarks
(G) THESE PARTS ARE SOLD BY
FIG.19,REF.NO.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-55620	FILTER ASSY, FUEL	1							
2	2	104200-55321	VALVE, TAPER	1							
3	2	104200-55330	SPRING, VALVE	1							
4	2	129100-55650	ELEMENT	1							
6	2	129100-55670	LEVER	1							
7	2	129100-55680	CUP, STRAINER	1							
8	2	129100-55690	RING, RETAINING	1							
9	2	129100-55700	SPRING	1							
10	2	104200-55750	SCREW, M4	1							
11	2	24311-000160	O-RING, 1AP16.0	1							
12	2	24311-240100	O-RING, 1AP10A	1							
13	2	24321-000650	O-RING, 1AG65.0	1							
14	1	26014-080702	BOLT, M8X 70	1							
15	1	103854-39140	BOLT, PIPE JOINT	1							
16	1	101304-59020	JOINT, PIPE 12	1							
17	1	124766-59050	CLIP, HOSE 12	4							
18	1	104200-59170	GASKET, 12	2							G
19	1	129555-59510	PIPE, D13/7.5X180	1							
20	1	105025-59530	PIPE, FUEL D13X400	1							
21	1	124766-59050	CLIP, HOSE 12	2							
22	1	124066-59100	CLIP, HOSE 8	9							
23	1	105025-59530	PIPE, FUEL D13X400	1							
24	1	121250-59550	PIPE, FUEL D8X120	3							
25	1	119840-59560	PIPE, FUEL RETURN	1							
26	1	119840-59570	JOINT	1							
27	1	129150-59580	CAP	1							
28	1	129100-59951	VALVE ASSY, CHECK	1							
36	1	23414-120000	GASKET, 12X1.0	2							G
37	1	121850-55800	SEPARATOR ASSY,WATER	1							
38	2	104200-55321	VALVE, TAPER	1							
39	2	104200-55330	SPRING, VALVE	1							
40	2	104200-55341	HANDLE	1							
41	2	121254-55510	COVER	1							
42	2	102103-55520	O-RING	1							
43	2	110250-55610	RING, RETAINING	1							
44	2	121257-55720	SPRING	1							
45	2	121257-55731	FLOAT	1							
47	2	101720-55750	PLUG, 6	2							
48	2	104200-55750	SCREW, M4	1							
49	2	121850-55710	SCREEN	1							
50	2	23418-060000	GASKET, 6X1.0	2							
51	2	24311-240100	O-RING, 1AP10A	1							

Fig.16. GOVERNOR

16. GOVERNOR

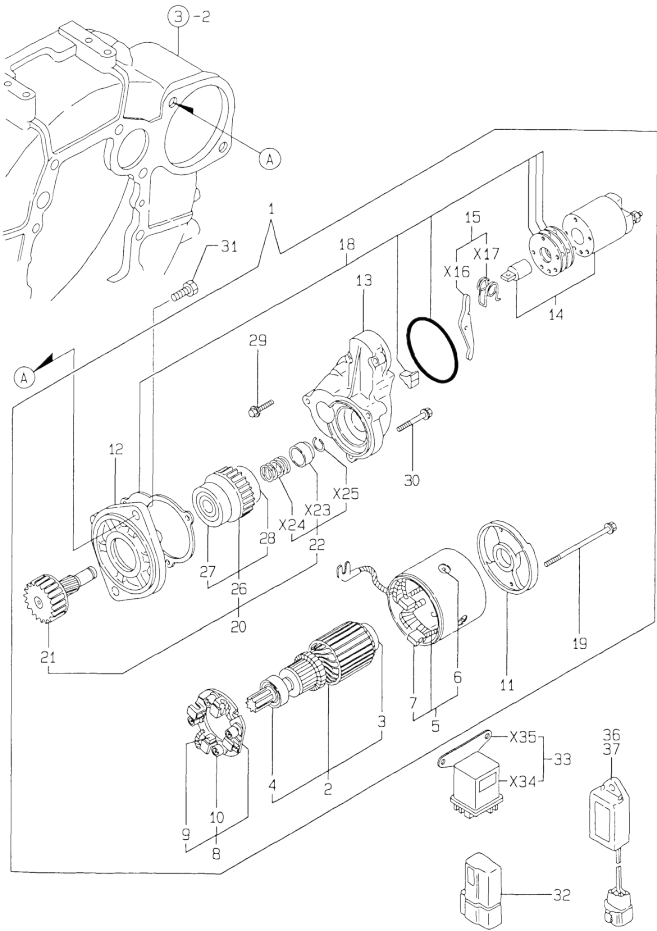


Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.

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	129052-61050	GASKET	1							
5	2	129052-61060	COVER, GOVERNOR CASE	1							
6	2	129052-61070	GASKET	1							
7	2	129155-61120	LINK, L=30 MARK 0	1							1
8	2	129155-61130	LINK, L=31 MARK 1	1							1
9	2	129155-61140	LINK, L=30.5 MARK 05	1							1
10	2	129155-61201	WEIGHT ASSY,GOVERNOR	1							
14	2	129155-61341	SLEEVE	1							2
15	2	129155-61350	SLEEVE, L=24.9	1							2
16	2	129155-61360	SLEEVE, L=25.2	1							2
17	2	129100-61400	SHAFT ASSY	1							
20	2	129155-61430	SPACER	1							
24	2	129155-61450	BOLT, LIMITER	1							
25	2	129155-61460	BOLT, IDLE	1							
26	2	129155-61480	SPACER ASSY	2							
31	2	129052-61390	SHAFT	1							
32	2	129052-61500	LEVER ASSY, GOVERNOR	1							
33	3	174307-51700	SHIM SET	2							
47	3	129052-61540	SPRING, SET	1							
56	2	129155-61830	O-RING, S10	1							
57	2	119660-61901	RETAINER, SHAFT	1							
58	2	129155-61950	BOLT	1							
59	2	124550-66370	NUT, M6	1							
60	2	22117-040000	WASHER, 4	1							
61	2	22190-060002	WASHER, SEAL 6	1							
62	2	22190-100002	WASHER, SEAL 10	1							
63	2	22190-120002	WASHER, SEAL 12	2							
64	2	22287-120000	WASHER, 12	1							
65	2	22372-040000	PIN, SNAP 4	2							
66	2	23887-100002	PLUG, 10	1							
67	2	24341-000280	O-RING, 1AS28.0	1							
67-1	2	158552-61900	O-RING	1							N
(A)=EXXXXX											
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26106-060102	BOLT, M6X 10 PLATED	1							
70	2	26106-060102	BOLT, M6X 10 PLATED	4							
71	2	26106-060142	BOLT, M6X 14 PLATED	2							
72	2	26106-060202	BOLT, M6X 20 PLATED	6							
73	2	26756-060002	NUT, LOCK M6	1							
74	2	26776-120002	NUT, LOCK M12	2							
75	1	26366-080002	NUT, M8	1							
76	1	129100-61440	LEVER, CONTROL	1							
77	1	129100-61650	SPRING, CONTROLLER	1							
78	1	171353-61710	SPRING, GOVERNOR	1							
79	1	119653-77950	SOLENOID, STOP	1							
80	1	26687-120002	NUT, CAP M12	1							
81	1	129155-61470	BOLT, CONTROL	1							
82	1	171353-61550	ANGLEICH ASSY	1							

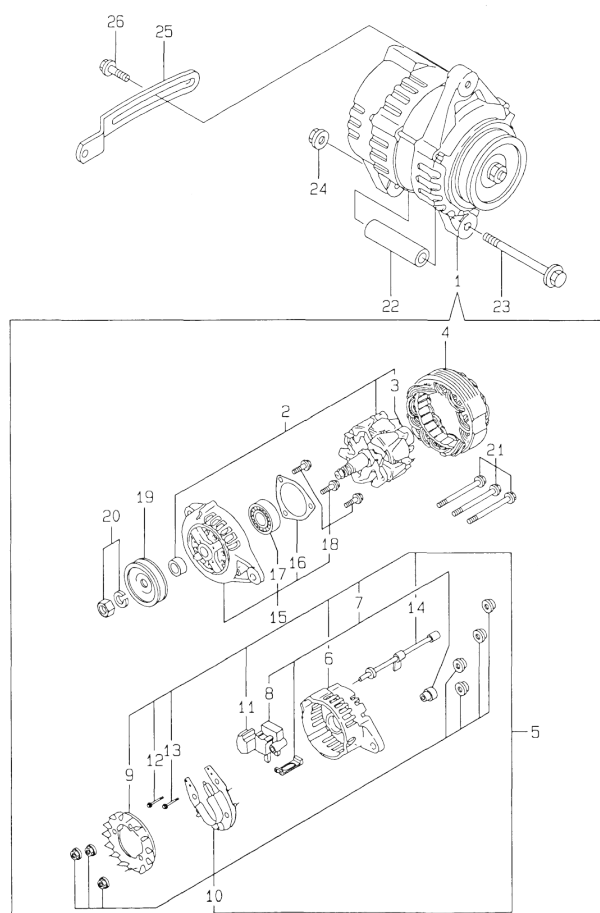
Fig.17. STARTING MOTOR

17.STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-77011	STARTER, S13-94A	1							
2	2	129400-77400	ARMATURE ASSY	1							
3	3	171008-77410	BEARING(1)	1							
4	3	171008-77420	BEARING(2)	1							
5	2	129400-77440	COIL ASSY, FIELD	1							
6	3	171008-77450	SCREW	4							
7	3	129400-77460	BRUSH (+)	2							
8	2	129400-77470	HOLDER ASSY, BRUSH	1							
9	3	129400-77480	BRUSH (-)	2							
10	3	129400-77490	SPRING, BRUSH	4							
11	2	129400-77510	COVER, REAR	1							
12	2	171008-77510	HOUSING ASSY, GEAR	1							
13	2	129400-77520	HOUSING, CENTER	1							
14	2	129400-77530	SWITCH ASSY,MAGNETIC	1							
15	2	171008-77540	LEVER SET, SHIFT	1							
18	2	129400-77570	COVER KIT, DUST	1							
19	2	129400-77640	BOLT, THROUGH	2							
20	2	171008-77650	PINION ASSY	1							
21	3	171008-77660	SHAFT, PINION	1							
22	3	171008-77670	STOPPER SET, PINION	1							
26	3	171008-77720	CLUTCH ASSY	1							
27	4	171008-77730	BALL BEARING (3)	1							
28	4	171008-77740	BALL BEARING (4)	1							
29	2	26106-060322	BOLT, M6X 32 PLATED	2							
30	2	26106-060402	BOLT, M6X 40 PLATED	3							
31	1	26116-120252	BOLT, M12X 25 PLATED	2							
32	1	119643-66900	DIODE	2							
33	1	119650-77910	RELAY ASSY, GLOW	2							
36	1	119632-77920	TIMER	1							
37	1	128300-77920	TIMER	1							

18. GENERATOR

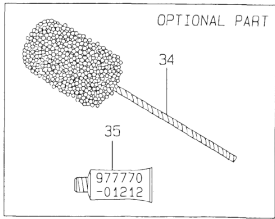
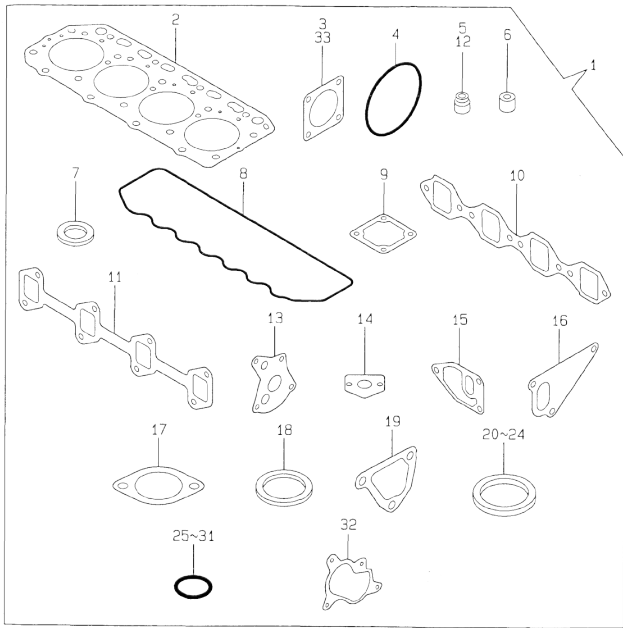


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1							
2	2	119836-77700	ROTOR ASSY	1							
3	3	119836-77850	BALL BEARING	1							
4	2	119836-77710	STATOR ASSY	1							
5	2	119836-77721	COVER ASSY, REAR	1							
6	3	119836-77730	COVER, REAR	1							
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	129410-77330	ADJUSTER	1							
26	1	26014-080252	BOLT, M8X 25	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.19. GASKET SET(OPTIONAL)

19.GASKET SET (OPTIONAL)



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729638-92600	GASKET SET	1							1
2	2	129408-01330	GASKET, HEAD	1							
3	2	124240-01883	GASKET	1							
4	2	121850-51960	O-RING	1							
5	2	124460-11340	SEAL, VALVE STEM	4							
6	2	119625-11871	PROTECTOR, NOZZLE	4							
7	2	119625-11880	SEAT, NOZZLE	4							
8	2	129550-11310	GASKET, BONNET	1							
9	2	129150-77511	GASKET	1							
10	2	129550-12111	GASKET, MANIFOLD	1							
11	2	129550-13110	GASKET	1							
12	2	121400-11340	SEAL, VALVE STEM	4							
13	2	129150-32020	GASKET, PUMP	1							
14	2	129150-35041	GASKET	1							
15	2	129120-35121	GASKET	1							
16	2	129100-42020	GASKET, WATER PUMP	1							
17	2	129795-49551	GASKET	1							
18	2	129150-49811	GASKET, THERMOSTAT	1							
19	2	129100-49840	GASKET	1							
20	2	124465-44950	GASKET, 16	1							
21	2	23414-100000	GASKET, 10X1.0	4							
22	2	104200-59170	GASKET, 12	2							
23	2	23414-120000	GASKET, 12X1.0	2							
24	2	22190-080002	WASHER, SEAL 6	4							
25	2	24311-000120	O-RING, 1AP12.0	3							
26	2	24311-000160	O-RING, 1AP16.0	3							
27	2	24311-000320	O-RING, 1AP32.0	2							
28	2	24341-000500	O-RING, 1AS50.0	1							
29	2	24341-000240	O-RING, 1AS24.0	1							
30	2	129120-35110	GASKET	1							
31	2	24314-000160	O-RING, 4CP16.0	1							
32	2	129403-18080	GASKET	2							
33	2	129322-18100	GASKET	1							
34	1	129400-92420	FLEX HORN	1							1
35	1	977770-01212	GASKET, LIQUID	1							1

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101304-59020	15	16
101720-55750	15	47
102103-55520	15	42
103854-39140	15	15
104200-55321	15	2
		38
104200-55330	15	3
		39
104200-55341	15	40
104200-55750	15	10
		48
104200-59170	15	18
	19	22
104207-44480	12	42
105025-59530	15	20
		23
110250-55610	15	43
114250-53080	14	5
114250-53120	14	9
114250-53130	14	10
114250-53140	14	11
114250-53210	14	12
114250-53400	14	13
119620-01750	3	3
119625-11871	4	27
	19	6
119625-11880	4	28
	19	7
119625-11900	4	26
119632-77920	17	36
119643-66900	17	32
119650-77910	17	33
119653-77950	16	79
119660-61901	16	57
119820-77340	18	22
119831-42290	12	15
119836-77200	18	1
119836-77700	18	2
119836-77710	18	4
119836-77721	18	5
119836-77730	18	6
119836-77741	18	7
119836-77750	18	8
119836-77760	18	9
119836-77770	18	10
119836-77780	18	11
119836-77790	18	15
119836-77800	18	16
119836-77810	18	19
119836-77820	18	20

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119836-77830	18	21
119836-77840	18	17
119836-77850	18	3
119836-77860	18	18
119836-77871	18	12
119836-77880	18	13
119836-77890	18	14
119840-59560	15	25
119840-59570	15	26
119865-21600	9	14
120130-11860	4	5
121023-01550	2	23
121111-21501	9	11
121120-12541	5	16
121120-12561	5	17
121120-12571	5	20
121120-12901	5	18
121250-59550	15	24
121252-39150	11	2
121252-39450	10	48
121254-55510	15	41
121256-44600	12	53
121257-55720	15	44
121257-55731	15	45
121400-11340	4	21
	19	12
121450-01560	2	5
121450-42450	12	23
121492-12950	5	19
121520-34800	10	16
121520-34810	10	17
121521-12400	5	12
121550-23200	9	32
121850-11860	4	9
121850-21680	9	9
121850-51960	2	10
	19	4
121850-55710	15	49
121850-55800	15	37
121855-12060	5	11
122117-51560	13	47
122710-51090	13	7
123682-44210	12	47
124066-59100	15	22
124070-13300	11	14
124160-01751	2	6
	4	55
124160-01910	1	4
		5
124160-11360	4	57

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124160-39140	11	1
124223-39900	11	9
124240-01871	2	7
124240-01883	2	8
	19	3
124250-49351	12	20
124450-44510	12	48
124450-44530	12	50
124450-44560	12	51
124460-11340	4	22
	19	5
124465-44950	12	24
	19	20
124550-51350	13	29
124550-51370	13	30
124550-59820	11	10
124550-66370	16	59
124574-44761	12	18
124736-07900	4	44
124766-59050	15	17
		21
124770-11770	12	28
124950-51190	13	14
128300-77920	17	37
129001-02800	1	15
129002-22090	9	15
129002-22510	9	17
129002-22900	9	23
129002-22950	9	25
129052-55620	15	1
129052-61050	16	4
129052-61060	16	5
129052-61070	16	6
129052-61390	16	31
129052-61500	16	32
129052-61540	16	47
129100-01580	3	1
		14
	9	4
129100-01640	3	15
129100-11100	4	16
129100-11130	4	17
129100-23910	9	35
129100-25061	7	8
129100-42002	12	2
129100-42020	12	13
	19	16
129100-49800	12	27
129100-49820	12	30
129100-49830	12	31

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129100-49840	12	36
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129100-51300	13	24
129100-52100	13	91
129100-55650	15	4
129100-55670	15	6
129100-55680	15	7
129100-55690	15	8
129100-55700	15	9
129100-59951	15	28
129100-61400	16	17
129100-61440	16	76
129100-61650	16	77
129103-49301	12	1
129120-33001	10	24
129120-33040	10	26
129120-33051	10	27
129120-33060	10	28
129120-35001	10	29
129120-35110	10	33
	19	30
129120-35121	10	34
	19	15
129120-44741	12	17
129120-49030	12	43
129120-77501	5	8
129132-49050	12	21
129136-12500	5	13
129136-77250	18	23
129150-01200	1	22
129150-02020	1	7
129150-02450	7	5
129150-02870	1	24
129150-02930	1	18
129150-02940	1	27
129150-03020	4	53
129150-03070	4	48
129150-03080	4	49
129150-03090	4	56
129150-03100	2	26
129150-11230	4	39
129150-11280	4	35
129150-11370	4	24
129150-11750	4	38
129150-11810	4	7
129150-14101	7	3
129150-14200	7	6
129150-14400	7	7
129150-21200	9	3
129150-23600	9	33

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129150-25101	7	9
129150-25900	7	14
129150-25920	7	12
129150-32020	10	14
	19	13
129150-35041	10	18
	19	14
129150-35042	10	18 -1
129150-35151	10	35
129150-35350	10	37
129150-49080	12	57
129150-49100	12	56
129150-49360	12	41
129150-49811	12	35
	19	18
129150-59120	14	20
129150-59131	14	23
129150-59580	15	27
129150-77511	5	9
	19	9
129155-11260	4	33
129155-11270	4	34
129155-42350	12	16
129155-49800	12	34
129155-51020	13	85
129155-51050	13	5
129155-51060	13	6
129155-51140	13	11
129155-51180	13	13
129155-51200	13	15
129155-51270	13	22
129155-51280	13	23
	16	2
129155-51320	13	27
129155-51340	13	28
129155-51370	13	31
129155-51380	13	32
129155-51390	13	33
129155-51410	13	35
129155-51420	13	88
129155-51450	13	36
129155-51521	13	43
129155-51530	13	44
129155-51540	13	45
129155-51550	13	46
129155-51570	13	49
129155-51580	13	50
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129155-51930	13	77
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129155-52050	13	92
129155-61120	16	7
129155-61130	16	8
129155-61140	16	9
129155-61201	16	10
129155-61341	16	14
129155-61350	16	15
129155-61360	16	16
129155-61430	16	20
129155-61450	16	24
129155-61460	16	25
129155-61470	16	81
129155-61480	16	26
129155-61830	16	56
129155-61950	16	58
129156-51910	13	76
129202-22300	9	21
129322-12521	5	14
129322-12531	5	15
129322-18100	8	51
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129350-49530	12	25
129400-01520	2	4
129400-01730	3	10
129400-01770	3	6
129400-11350	4	46
129400-12100	5	1
129400-59910	14	25
129400-59920	14	29
129400-59930	14	33
129400-59940	14	37
129400-77011	17	1
129400-77400	17	2
129400-77440	17	5
129400-77460	17	7
129400-77470	17	8
129400-77480	17	9
129400-77490	17	10
129400-77510	17	11
129400-77520	17	13
129400-77530	17	14
129400-77570	17	18
129400-77640	17	19
129400-92420	19	34
129403-12090	5	5
129403-12560	5	21
129403-12570	5	22

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129403-12580	5	23
129403-12590	5	24
129403-13120	6	2
129403-18080	6	9
	8	50
	19	32
129403-39460	11	3
129403-49050	12	44
129404-18020	8	1
129404-18720	8	2
129404-18750	8	3
129404-18770	8	4
129404-18780	8	13
129404-18790	8	18
129404-18800	8	22
129404-18811	8	25
129404-18820	8	30
129404-18830	8	34
129407-21000	9	1
129407-35300	10	36
129408-01330	1	23
	19	2
129410-77330	18	25
129418-32000	10	1
129436-35070	10	19 -2
129436-35090	10	19
129436-35091	10	19 -1
129470-11080	4	14
129470-11090	4	15
129470-51040	13	4
129484-13520	6	7
129503-39600	11	15
129503-53050	14	2
129506-39610	11	16
129506-51100	13	8
129550-11290	4	30
129550-11310	4	52
	19	8
129550-12111	5	2
	19	10
129550-13110	6	1
	19	11
129553-39650	10	46
129555-11241	4	29
129555-51400	13	34
129555-51500	13	41
129555-51700	13	71
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129638-21590	9	12
129792-39410	10	40
129795-01780	3	17
129795-01800	2	3
129795-01950	2	9
129795-02411	1	14
129795-11120	4	18
129795-11180	4	19
129795-21661	9	8
129795-49551	12	26
	19	17
158552-61900	16	67 -1
171008-77410	17	3
171008-77420	17	4
171008-77450	17	6
171008-77510	17	12
171008-77540	17	15
171008-77650	17	20
171008-77660	17	21
171008-77670	17	22
171008-77720	17	26
171008-77730	17	27
171008-77740	17	28
171051-01921	1	6
171301-01600	3	2
171301-01640	3	7
171301-21650	9	7
171353-61550	16	82
171353-61710	16	78
171420-49010	12	54
171420-49020	12	55
171460-44500	12	46
174307-51170	13	12
174307-51560	13	48
174307-51700	16	33
194990-22050	8	52
22117-040000	16	60
22190-060002	16	61
22190-080002	2	21
		22
	11	11
	19	24
22190-100002	16	62
22190-120002	16	63
22190-160002	13	89
22217-050000	13	79
22217-060000	13	80
22217-120000	7	15

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22252-000260	9	22	24341-000500	4	50	26106-081002	6	5			
22287-120000	16	64		19	28	26116-050302	13	84			
22351-030010	10	47	26013-080402	5	25	26116-060162	12	33			
22351-040010	9	10	26014-060252	12	19	26116-120252	17	31			
22351-050010	13	81	26014-080252	18	26	26206-100252	3	4			
22351-060012	4	25	26014-080702	15	14	26206-100302	3	5			
22372-040000	16	65	26022-050102	13	86	26216-060202	4	13			
22512-070140	7	4	26022-060162	13	87	26216-080222	6	6			
	9	5	26106-060102	16	68	26226-080182	4	40			
23000-016000	12	22			69	26366-060002	4	23			
23000-022000	12	45			70	26366-080002	2	20			
23000-025000	11	17	26106-060122	2	25		16	75			
23000-054000	5	6	26106-060142	16	71		18	24			
23000-060000	5	7	26106-060162	11	19	26450-060252	10	15			
23010-050000	12	61	26106-060202	16	72	26687-120002	16	80			
23061-070230	12	52	26106-060322	17	29	26716-060002	13	42			
23080-012000	8	49	26106-060402	17	30	26716-120002	7	16			
23414-100000	10	31	26106-080102	11	13	26756-060002	16	73			
	11	12	26106-080122	2	13	26756-080002	4	41			
	19	21	26106-080142	4	45	26776-120002	16	74			
23414-120000	15	36	26106-080162	1	21	27231-500000	1	11			
	19	23		2	14	27241-120000	1	12			
23418-060000	15	50			18	27241-220000	4	11			
23871-010000	1	10		3	11	27241-300000	1	13			
23871-030000	4	10		4	51	27241-400000	4	12			
	5	3	26106-080202	2	19	27310-080001	4	20			
	12	12		12	37	719810-01500	2	1			
		32	26106-080252	3	12	729137-53200	14	1			
23881-100002	10	32		4	42	729402-11650	4	36			
23887-100002	16	66		10	39	729402-14580	7	1			
24101-063034	13	82		12	38	729402-23100	9	29			
24311-000120	4	58	26106-080302	3	18	729408-11700	4	1			
	19	25	26106-080352	3	19	729638-01560	1	1			
24311-000160	2	11		5	4	729638-51360	13	1			
	10	38			10	729638-92600	19	1			
	15	11		10	23	977770-01212	19	35			
	19	26	26106-080452	2	15						
24311-000320	2	12		3	13						
	4	54			13						
	19	27		7	13						
24311-240100	15	12	26106-080502	3	20						
		51		4	43						
24314-000160	11	18		12	39						
	19	31	26106-080552	2	16						
24321-000650	15	13		10	23						
24341-000160	13	83	26106-080602	12	14						
24341-000240	2	24			40						
	19	29	26106-080652	6	3						
24341-000250	3	9	26106-080852	2	17						
24341-000280	16	67		6	4						