

0CV10-M45701EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 2TNE68-HIN engine manufactured since March, 1996.

2. Parts catalog history

	Parts catalog No.	Published	Remarks
1st edition	000Y00V4570	1996/3	Disuse old edition
1st revised	000Y00V4571	2001/8	

3. Model name

Column	Model name	Manufactured	E/#
(A)	2TNE68-HIN	1996/3~	01152~

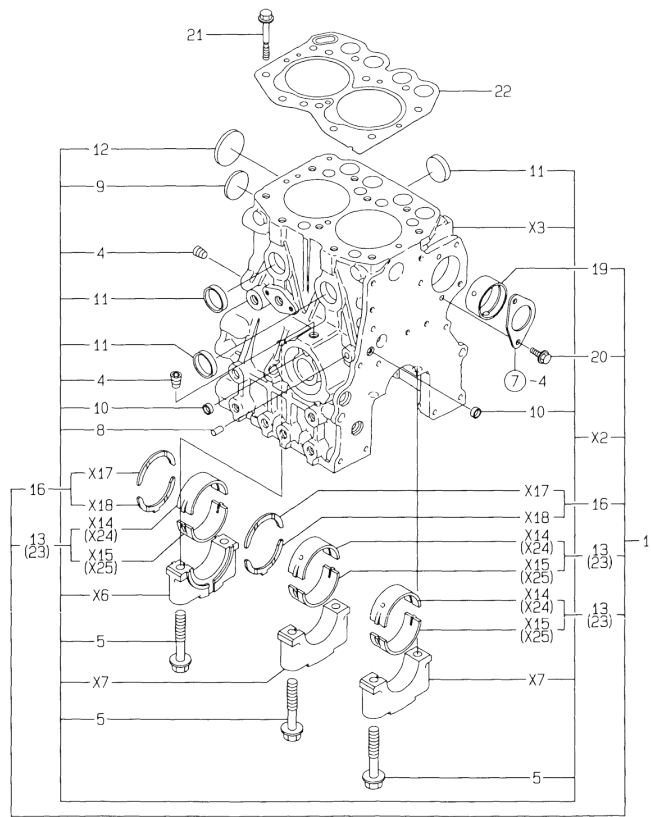
4. Each illustration corresponds to the parts list on the following page.
5. When ordering parts, clearly write down the engine model and serial number, as well as the name and number of each part in your order sheet. This will help insure reliable delivery of the parts you have ordered.

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Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK



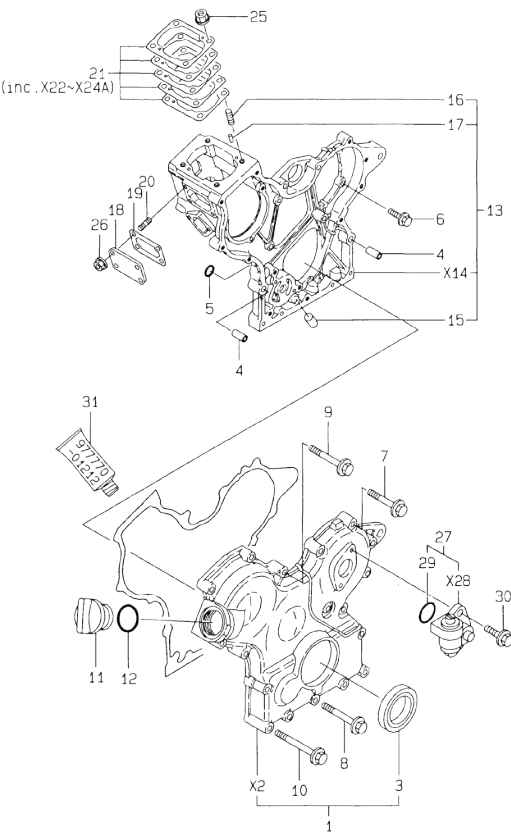
Remarks
(1) UNDER-SIZE(U.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719325-01560	BLOCK ASSY, CYLINDER	1							
4	3	124060-01050	PLUG, PT1/8	2							
5	3	119260-02020	BOLT, METAL CAP	6							
8	3	27221-060100	PLUG, 6X10	1							
9	3	27231-400000	PLUG 40	1							
9-1	3	119265-01250	PLUG, 40	1						N	
(A=E0000)											
10	3	27241-100000	PLUG, 10	2							
11	3	27241-250000	PLUG, 25	3							
12	3	27241-300000	PLUG 30	1							
13	2	119260-02800	BEARING, MAIN	3							
16	2	119260-02930	BEARING, THRUST	2							
19	2	119260-02410	BUSH, CAMSHAFT	1							
19-1	2	119266-02410	BUSH	1						R	
(A=E04438)											
20	2	26106-060122	BOLT, M6X 12 PLATED	2							
21	1	119260-01200	BOLT, HEAD	10							
21-1	1	119266-01200	BOLT, HEAD	10						N	
(A=E07150)											
22	1	119309-01330	GASKET, CYL. HEAD	1							
23	1	719260-02870	BEARING, 0.25 US	3							1

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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	119260-01590	COVER ASSY,GEAR CASE	1							
3	2	119620-01800	SEAL, OIL	1							
4	1	119660-01911	PIPE, KNOCK	4							
5	1	24311-000120	O-RING, 1AP12.0	2							
5-1	1	119624-32040	O-RING, P12.0	2						N	
(A=E 11459)											
6	1	26106-060162	BOLT, M6X 16 PLATED	5							
7	1	26106-060302	BOLT, M6X 30 PLATED	5							
8	1	26106-060402	BOLT, M6X 40 PLATED	3							
9	1	26106-060502	BOLT, M6X 50 PLATED	4							
10	1	26106-060652	BOLT, M6X 65 PLATED	6							
11	1	124160-01751	COVER, FILLER	1							
12	1	24311-000320	O-RING, 1AP32.0	1							
13	1	119305-01490	CASE ASSY, GEAR	1							
15	2	119260-01510	PLUG	1							
16	2	121450-01560	STUD, M8X22	4							
17	2	22351-040010	PIN, SPRING 4.0X10	2							
18	1	119660-01551	COVER	1							
19	1	119660-01562	GASKET	1							
20	1	119660-01570	STUD, M6X12	4							
21	1	119305-01950	SHIM SET, ADJUSTING	1							
25	1	194990-22050	NUT, M8	4							
26	1	26366-060002	NUT, M6	4							
27	1	129150-91400	GEAR	1							
29	2	24341-000240	O-RING, 1AS24.0	1							
30	1	26106-060162	BOLT, M6X 16 PLATED	2							
31	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1) OPTIONAL 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 exploded view diagram illustrates the assembly of a mechanical component, possibly a fuel filter or a similar fluid-handling unit. The parts are numbered 1 through 22, and their assembly sequence is indicated by arrows and numbers in the diagram.

- Part 1:** The main housing or base plate, shown at the top right.
- Part 2:** A circular flange or gasket, shown below Part 1.
- Part 3:** A small screw or bolt, shown to the left of Part 2.
- Part 4:** A larger screw or bolt, shown to the left of Part 3.
- Part 5:** A circular flange or gasket, shown below Part 2.
- Part 6:** A small ring or O-ring, shown below Part 5.
- Part 7:** A small screw or bolt, shown below Part 6.
- Part 8:** A small screw or bolt, shown below Part 7.
- Part 9:** A small screw or bolt, shown below Part 8.
- Part 10:** A small screw or bolt, shown below Part 9.
- Part 11:** A small screw or bolt, shown below Part 10.
- Part 12:** A small screw or bolt, shown below Part 11.
- Part 13:** A small screw or bolt, shown below Part 12.
- Part 14:** A small screw or bolt, shown below Part 13.
- Part 15:** A small screw or bolt, shown below Part 14.
- Part 16:** A small screw or bolt, shown below Part 15.
- Part 17:** A small screw or bolt, shown below Part 16.
- Part 18:** A small screw or bolt, shown below Part 17.
- Part 19:** A small screw or bolt, shown below Part 18.
- Part 20:** A small screw or bolt, shown below Part 19.
- Part 21:** A small screw or bolt, shown below Part 20.
- Part 22:** A small screw or bolt, shown below Part 21.

The diagram shows the assembly of the main housing (1) with various flanges (2, 5), O-rings (6), and screws (3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22) to form a complete unit. The assembly is shown in a disassembled state to illustrate the correct sequence and orientation of the components.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, M8X16	2							
2	1	119285-01601	FLANGE, MOUNTING	1							
2-1	1	119285-01600	FLANGE, MOUNTING	1							N
(A=E23234)											
3	1	26206-100202	BOLT, M10X 20 PLATED	8							
4	1	26206-100252	BOLT, M10X 25 PLATED	3							
5	1	119620-01620	PIN, M6X10	2							
6	1	119660-01640	CASE ASSY, OIL SEAL	1							
8	2	124085-02220	SEAL, OIL	1							
9	1	26106-060222	BOLT, M6X 22 PLATED	6							
10	1	119305-01760	SPACER, OIL PUMP	1							
11	1	119810-01790	SUMP ASSY, OIL	1							
11-1	1	119843-01780	SUMP ASSY, OIL	1							N
(A=E02938)											
12	2	119640-01640	PLUG, DRAIN M22	1							
14	2	22190-220002	WASHER, SEAL 22	1							
15	1	119385-01740	PLATE, OIL PUMP	1							
16	1	26106-060452	BOLT, M6X 45 PLATED	13							
17	1	26106-060142	BOLT, M6X 14 PLATED	2							
18	1	119285-01580	BOLT, M46X22	4							
19	1	26106-060202	BOLT, M6X 20 PLATED	1							
20	1	26106-060552	BOLT, M6X 55 PLATED	3							
21	1	26106-080102	BOLT, M8X 10 PLATED	22							
22	1	977770-01212	GASKET, LIQUID	1							

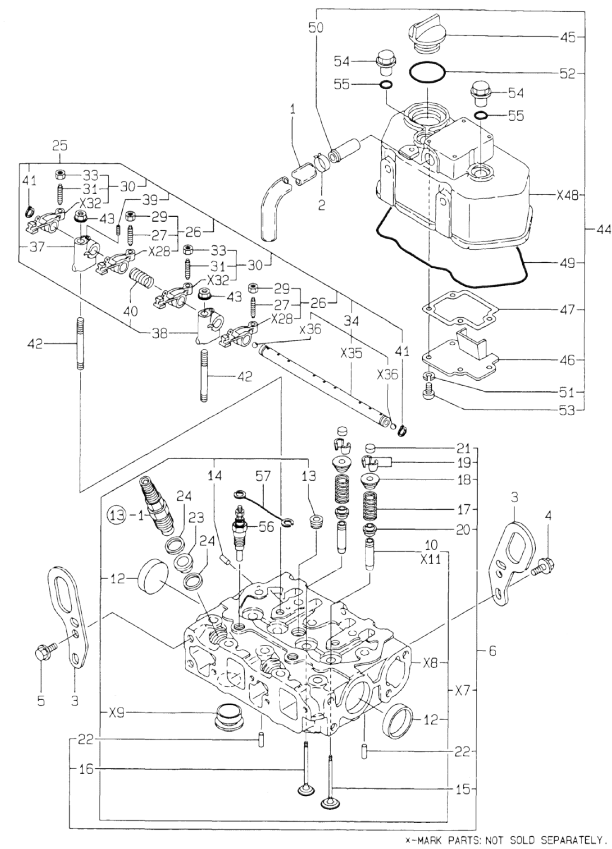
Remarks
(1) OPTIONAL PART.

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.4. CYLINDER HEAD & BONNET

4. CYLINDER HEAD & BONNET

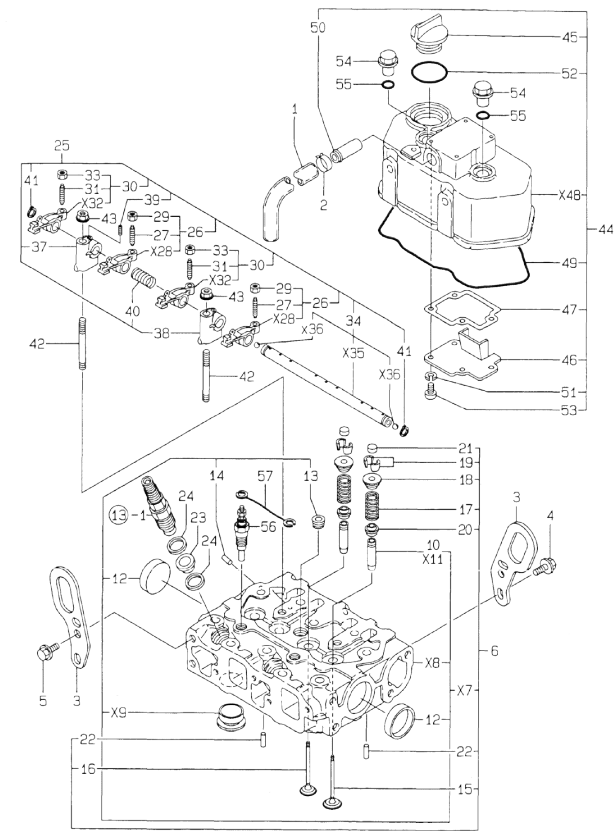


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119285-03140	PIPE, BREATHER	1							
2	1	171008-03990	CLIP, HOSE 18.5	2							
3	1	119260-07900	LIFTER	2							
4	1	26106-080142	BOLT, M8X 14 PLATED	1							
5	1	26106-080142	BOLT, M8X 14 PLATED	2							
6	1	719325-11700	HEAD ASSY, CYLINDER	1							
10	3	119260-11800	GUIDE, VALVE	4							1
12	3	27241-350000	PLUG, 35	2							
13	3	23871-020000	PLUG, R02	1							
13-1	3	23876-020000	PLUG, R02	1							N
(A=E0000)											
14	3	27221-050080	PLUG, 5X 8	1							
15	2	119260-11100	VALVE, INTAKE	2							
16	2	119260-11110	VALVE, EXHAUST	2							
17	2	114250-11120	SPRING, VALVE	4							
18	2	114250-11180	RETAINER, SPRING	4							
19	2	27310-055000	COTTER	8							
20	2	119260-11340	SEAL, VALVE STEM	4							
21	2	119260-11370	CAP, VALVE	4							
22	2	22351-060012	PIN, SPRING 6.0X12	2							
23	1	119600-11450	PROTECTOR, NOZZLE	2							
24	1	119600-11460	GASKET, NOZZLE	4							
25	1	119325-11200	SUPPORT ASSY, ARM	1							
26	2	719489-11650	ARM ASSY, ROCKER	2							
27	3	105010-11230	SCREW, VALVE ADJUST	2							
29	3	26756-060002	NUT, LOCK M6	2							
30	2	719489-11660	ARM ASSY, ROCKER	2							
31	3	105010-11230	SCREW, VALVE ADJUST	2							
33	3	26756-060002	NUT, LOCK M6	2							
34	2	119305-11240	SHAFT ASSY, ROCKER	1							
37	2	119260-11260	SUPPORT, ROCKER ARM	1							
38	2	119265-11260	SUPPORT, ROCKER ARM	1							
39	2	119260-11270	SCREW	1							
40	2	119260-11280	SPRING	1							
41	2	22242-000100	RING, 10	2							
42	1	119620-11350	STUD	2							
43	1	26366-080002	NUT, M8	2							
43-1	1	26306-080002	NUT, M8	2							N
(A=E0000)											
44	1	119305-11350	BONNET ASSY, HEAD	1							
45	2	124160-01751	COVER, FILLER	1							
46	2	119305-03020	PLATE, SHELTER	1							
47	2	119305-03031	GASKET	1							
49	2	119305-11310	GASKET, BONNET	1							
50	2	119620-11390	JOINT	1							
50-1	2	118400-03060	JOINT, BREATHER	1							R
(A=E08222)											
51	2	22217-050000	WASHER, SPRING 5	4							Z
(A=E04888)											
52	2	24311-000320	O-RING, 1AP32.0	1							
53	2	26557-050102	O-RING, M5X10	4							

N:Old, New, Q:Old, New, R:Old, New, S:Old, New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.4. CYLINDER HEAD & BONNET

4. CYLINDER HEAD & BONNET



x-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
53-1	2	22857-500100 (A=E04888)	SCREW, 5X10	4							R
54	1	124160-11360	KNOB	2							
55	1	24311-000120	O-RING, 1AP12.0	2							
56	1	129155-77800	PLUG, GLOW	2							
57	1	119305-77820	CONNECTOR, GLOW PLUG	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R}{YES}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{R}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The main assembly consists of a cylindrical body (9) with a flange (7) and a threaded section (8). A cap (10) with a gasket (13) and a screw (11) is shown being attached to the top. A separate bracket (1) is shown with a flange (4) and a hose (3) attached. The bracket is secured with screws (5) and (6). The entire assembly is shown in relation to a larger, complex mechanical block (2) which has various ports and mounting points.

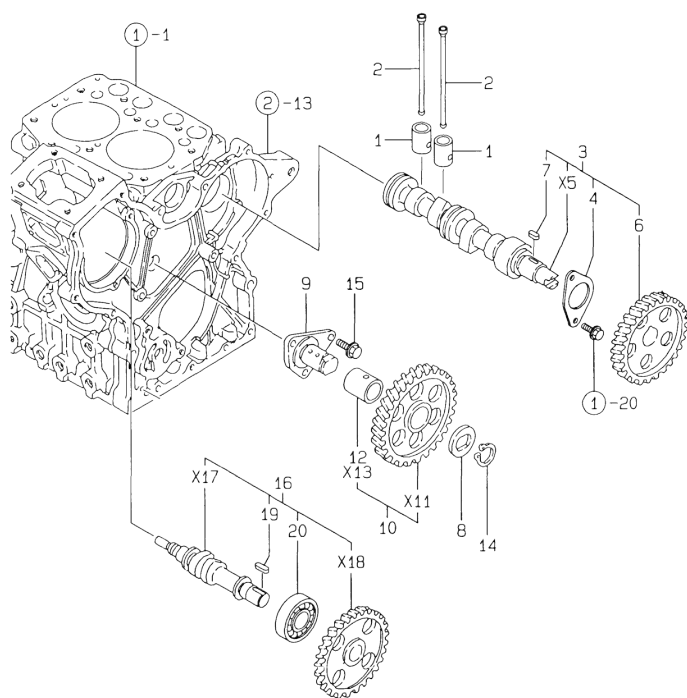
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This diagram shows the exploded view of the engine head assembly. The components are numbered as follows:

- 1: Main engine head casting
- 2: Gasket for the main head
- 3: Bolt for the main head
- 4: Bolt for the side cover
- 5: Bolt for the side cover
- 6: Bolt for the side cover
- 7: Gasket for the side cover

[illegible]

7. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

				(A)=2TNE68-HIN					(D)=			I	R
				(B)=					(E)=				
				(C)=					(F)=				
No.	Lev.	Parts No.	Description	Qty									
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	119260-14200	TAPPET	4									
2	1	119260-14400	ROD, PUSH	4									
3	1	119305-14580	CAMSHAFT ASSY	1									
4	2	119620-02450	BEARING, THRUST	1									
6	2	119260-14100	GEAR, CAMSHAFT	1									
7	2	22512-040120	KEY, 4X 12	1									
8	1	119660-25022	RETAINER	1									
9	1	119660-25052	SHAFT, IDLE	1									
10	1	119260-25100	GEAR ASSY, IDLE	1									
12	2	119620-25912	BUSH	1							1		
14	1	22242-000200	RING, 20	1									
15	1	26106-060122	BOLT, M6X 12 PLATED	3									
16	1	119305-14200	CAM ASSY	1									
19	2	22512-040120	KEY, 4X 12	1									
20	2	24102-063034	BEARING, BALL 6303U	1									

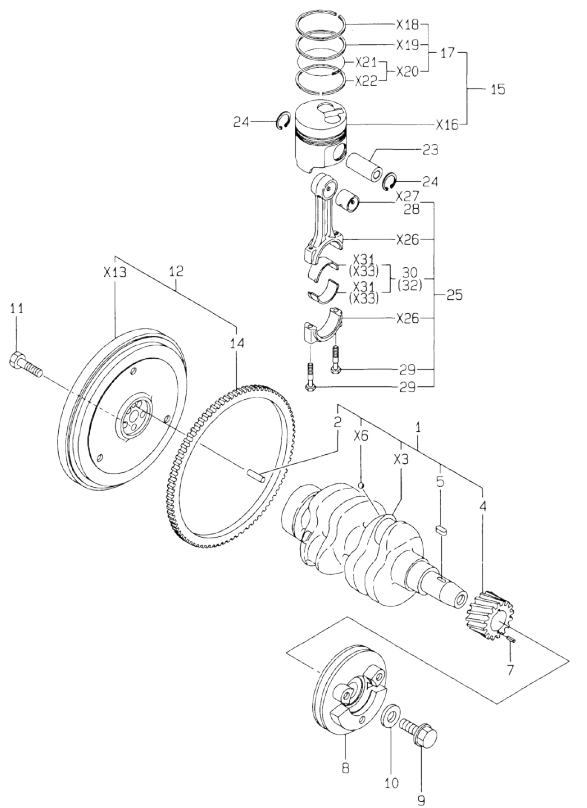
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.8. CRANKSHAFT & PISTON

8.CRANKSHAFT & PISTON



x-MARK PARTS: NOT SOLD SEPARATELY.

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119309-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119260-21200	GEAR, CRANKSHAFT	1							
5	2	22512-040120	KEY, 4X 12	1							
7	1	22351-030012	PIN, SPRING 3.0X12	1							
8	1	119325-21650	V-PULLEY	1							
9	1	119621-21680	BOLT, FLANGE 12X1.25	1							
10	1	119620-21941	WASHER	1							
11	1	119620-21500	BOLT, FLYWHEEL	5							
12	1	119385-21600	FLYWHEEL ASSY	1							
12-1	1	119385-21592	FLYWHEEL ASSY	1							N
(A=E02938)											
14	2	124060-21600	GEAR, RING	1							
15	1	119265-22601	PISTON ASSY	2							
17	2	119265-22500	RING SET, PISTON	2							
23	1	119265-22300	PIN, PISTON	2							
24	1	22252-000200	RING, 20	4							
25	1	119265-23100	ROD ASSY, CONNECTING	2							
28	2	119260-23910	BEARING, PISTON PIN	2							1
29	2	119265-23200	BOLT, CONNECTING ROD	4							
30	2	719260-23600	BEARING, CRANK PIN	2							
32	1	719260-23610	BEARING ASSY, 0.25	2							2

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{RIS}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{RIS}{YES}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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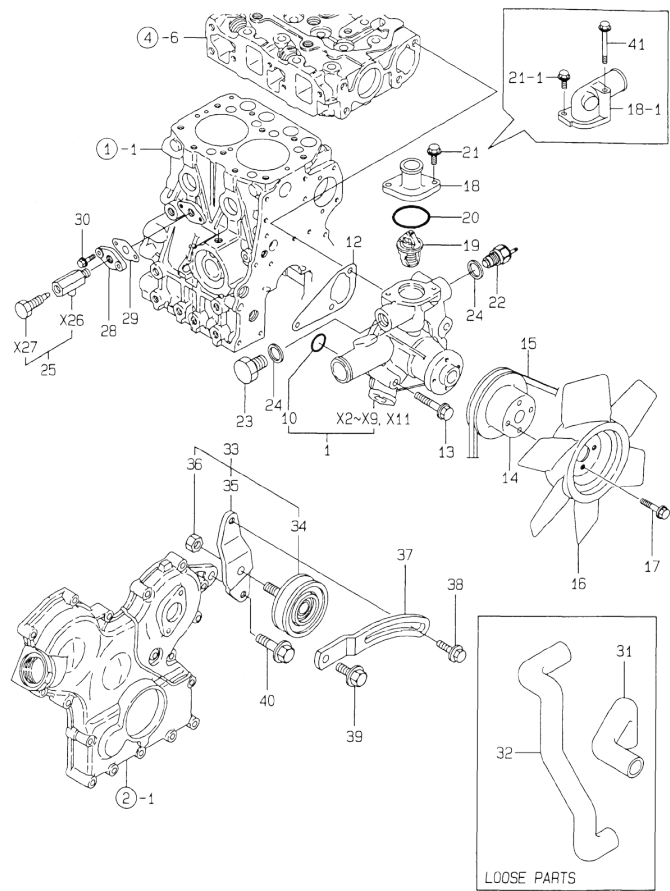
This diagram illustrates the exploded view of a 4-cylinder engine assembly. The components are labeled with numbers 1 through 28:

- 1**: Engine block (inc. X2~X10)
- 1-1**: Piston and connecting rod assembly
- 13**: Spark plug
- 14**: Spark plug wire
- 15**: Oil pan
- 16**: Oil pan gasket (inc. X17~X23)
- 24**: Oil pan mounting flange
- 25**: Oil pan mounting bracket
- 26**: Oil pan mounting pin
- 27**: Oil pan mounting bolt
- 28**: Spark plug
- 11**: Timing gear cover
- 1**: Timing gear (inc. X2~X10)
- 12**: Timing gear bolt

[illegible]

Fig.10. COOLING WATER SYSTEM

10.COOLING WATER SYSTEM



x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-42001	PUMP ASSY, WATER	1							
1-1	1	119260-42002	PUMP ASSY, WATER	1							N
(A=E02938)											
10	2	119225-42320	O-RING	1							
12	1	119260-42020	GASKET, WATER PUMP	1							
12-1	1	119260-42021	GASKET, WATER PUMP	1							N
(A=E13728)											
13	1	26106-080452	BOLT, M8X 45 PLATED	3							
14	1	119620-42350	V-PULLEY	1							
15	1	119225-42290	V-BELT, FM34.0	1							
15-1	1	119620-42291	V-BELT, FM34.5	1							N
(A=E23234)											
16	1	124750-44740	FAN, D270XL44	1							Z
(A=E23234)											
17	1	26014-060142	BOLT, M6X 14	4							
17-1	1	26014-060122	BOLT, M6X 12	4							S
(A=E23234)											
18	1	119260-49530	COVER, THERMOSTAT	1							
18-1	1	119256-49530	COVER, THERMOSTAT	1							N
(A=E23234)											
19	1	119260-49800	THERMOSTAT, 71	1							
20	1	24321-000350	O-RING, 1AG35.0	1							
20-1	1	119209-42140	O-RING, G 35	1							N
(A=E13728)											
21	1	26106-060182	BOLT, M6X 18 PLATED	2							
21-1	1	26106-060162	BOLT, M6X 16 PLATED	1							S
(A=E23234)											
22	1	121250-44901	SWITCH, 110	1							
23	1	121450-42450	PLUG, M16	1							
24	1	124465-44950	GASKET, 16	2							
25	1	119620-49290	COCK ASSY, 1/4	1							
28	1	119385-49310	FLANGE	1							
29	1	119385-49331	GASKET	1							
30	1	26106-060252	BOLT, M6X 25 PLATED	2							
31	1	119645-49010	PIPE, WATER	1							
32	1	119645-49020	PIPE, WATER	1							
33	1	171375-44300	PULLEY ASSY, TENSION	1							Z
(A=E23234)											
34	2	171011-44301	PULLEY, TENSION	1							Z
(A=E23234)											
35	2	171375-44320	BRACKET, PULLEY	1							Z
(A=E23234)											
36	2	26706-100002	NUT, M10	1							Z
(A=E23234)											
37	1	119660-77330	ADJUSTER	1							Z
(A=E23234)											
38	1	26014-080252	BOLT, M8X 25	1							Z
(A=E23234)											
39	1	26106-080182	BOLT, M8X 18 PLATED	1							Z
(A=E23234)											
40	1	26106-100352	BOLT, M10X 35 PLATED	1							

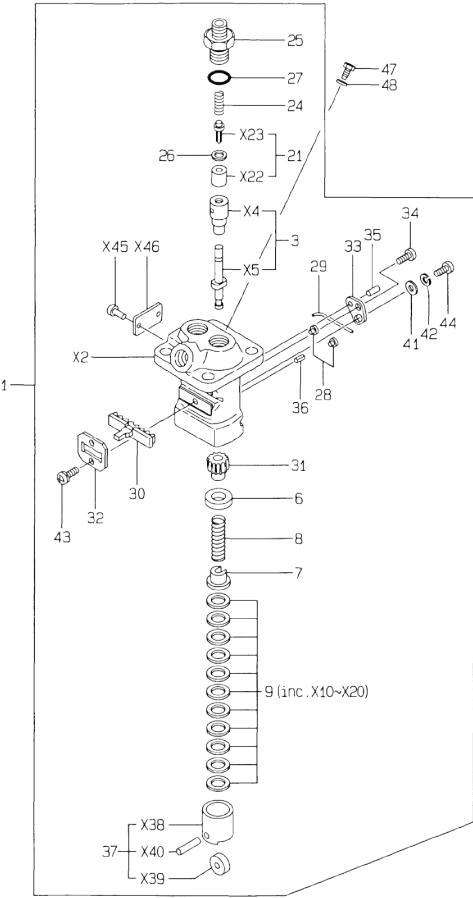
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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This diagram illustrates the exploded view of a 1.6L engine assembly. The main components shown include the cylinder head (4-6), the engine block (1-1), and the crankcase (2-1). Various sub-components and fasteners are labeled with callouts: 1 (main body), 10 (oil pump), 12 (camshaft), 13 (camshaft drive), 14 (oil pump drive), 15 (oil pump housing), 16 (oil pump fan), 17 (oil pump fan drive), 18 (oil pump housing), 19 (oil pump housing), 20 (oil pump housing), 21 (oil pump housing), 22 (oil pump housing), 23 (oil pump housing), 24 (oil pump housing), 25 (oil pump housing), 26 (oil pump housing), 27 (oil pump housing), 28 (oil pump housing), 29 (oil pump housing), 30 (oil pump housing), 31 (oil pump housing), 32 (oil pump housing), 33 (oil pump housing), 34 (oil pump housing), 35 (oil pump housing), 36 (oil pump housing), 37 (oil pump housing), 38 (oil pump housing), 39 (oil pump housing), 40 (oil pump housing), 41 (oil pump housing). A callout box in the top right corner shows a detail of a component (18-1) with a fastener (21-1) and a pin (41). A callout box in the bottom right corner shows two loose parts (31 and 32) labeled 'LOOSE PARTS'.

[illegible]

Fig.11. FUEL INJECTION PUMP

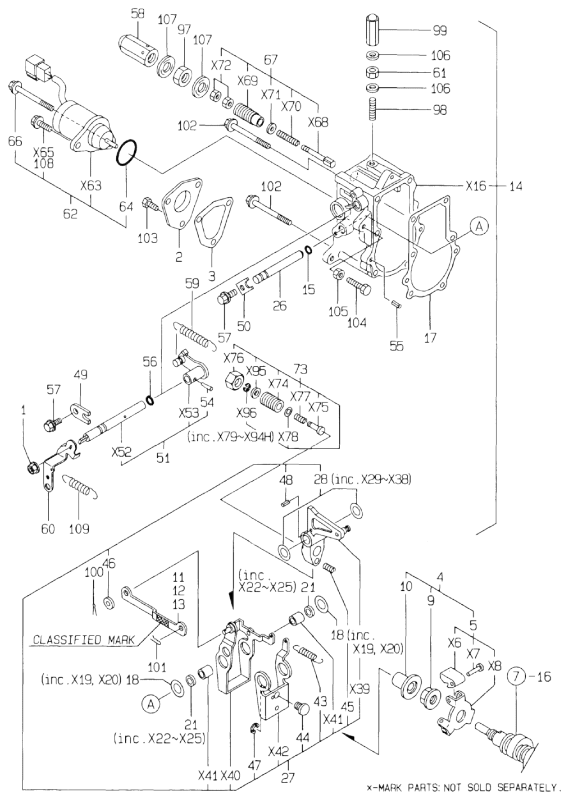
11.FUEL INJECTION PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719305-51100	PUMP ASSY, INJECTION	1							
3	2	119225-51100	PLUNGER ASSY	2							
6	2	119620-51170	RETAINER, SPRING A	2							
7	2	119620-51180	RETAINER, SPRING B	2							
8	2	119620-51190	SPRING, PLUNGER	2							
9	2	119620-51250	SHIM SET	2							
21	2	119225-51300	VALVE ASSY, DELIVERY	2							
24	2	105546-51330	SPRING, DELIVERY	2							
25	2	119620-51340	HOLDER, DELIVERY	2							
26	2	119620-51350	GASKET	2							
27	2	119620-51370	O-RING	2							
28	2	119620-51450	PIECE	2							
29	2	174307-51460	PIN, LOCK	1							
30	2	119305-51500	RACK, CONTROL	1							
31	2	119620-51510	PINION	2							
32	2	119305-51530	RETAINER, RACK	1							
33	2	119620-51650	PLATE	1							
34	2	119620-51660	SCREW	1							
35	2	119620-51670	PIN	1							
36	2	119620-51680	PIN	1							
37	2	119620-51700	TAPPET ASSY	2							
41	2	22137-040000	WASHER, 4	1							Z
42	2	22217-040000	WASHER, SPRING 4	1							Z
43	2	26022-040082	SCREW, M4X 8	2							
44	2	26587-040102	SCREW, M4X10	1							
44-1	2	26033-040102	SCREW, M4X10	1							R
47	1	119266-51900	BOLT	1							W
48	1	22190-080002	WASHER, SEAL 6	1							W

Fig.12. GOVERNOR

12. GOVERNOR



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22050	NUT, M8	1							
2	1	119660-61060	COVER, GOVERNOR CASE	1							
3	1	119660-61071	GASKET	1							
4	1	119600-61100	DRIVE ASSY	1							
5	2	119600-61200	WEIGHT ASSY,GOVERNOR	1							
9	2	119660-61300	NUT	1							
10	2	119660-61341	SLEEVE	1							
11	1	119285-61120	LINK, NO MARK	1							1
12	1	119285-61130	LINK, MARK :2	1							1
13	1	119285-61140	LINK, MARK :3	1							1
14	1	119285-61210	CASE ASSY, GOVERNOR	1							
15	2	129155-51280	O-RING, S6	1							
17	2	119660-61052	GASKET	1							
18	2	119660-61460	SHIM SET	1							
21	2	129155-61480	SPACER ASSY	2							
26	2	119660-61491	SHAFT	1							
26-1	2	119660-61590	SHAFT	1							N
(A=E00X)											
27	2	119285-61510	LEVER ASSY, GOVERNOR	1							
28	3	174307-51700	SHIM SET	2							
43	3	119232-61540	SPRING	1							
44	3	119600-61541	SHIFTER	1							
45	3	119600-61650	SPRING, STARTING	1							
46	3	22117-040000	WASHER, 4	1							
47	3	22272-000040	RING, E- 4	1							
48	3	22351-030014	PIN, SPRING 3.0X14	1							
49	2	119600-61900	RETAINER, SHAFT	1							
50	2	119660-61901	RETAINER, SHAFT	1							
51	2	119285-66080	SHAFT ASSY	1							
54	3	22322-030160	PIN, TAPER 3X16	1							
55	2	22351-040010	PIN, SPRING 4.0X10	2							
56	2	24341-000070	O-RING, 1AS7.0	1							
57	2	26106-060102	BOLT, M6X 10 PLATED	2							
58	1	129100-61930	NUT, CAP	1							
59	1	119600-66020	SPRING, REGULATOR	1							
60	1	119621-66051	LEVER, REGULATOR	1							
61	1	124550-66370	NUT, M6	1							
62	1	119653-66500	STOPPER ASSY	1							
64	2	24341-000280	O-RING, 1AS28.0	1							
66	2	26106-060952	BOLT, M6X 95 PLATED	1							
67	1	119600-66530	LIMITER ASSY, FUEL	1							
73	1	119610-66700	ANGLEICH ASSY	1							
97	1	26776-120002	NUT, LOCK M12	1							
97-1	1	26736-120002	NUT, M12	1							N
(A=E00X)											
98	1	121575-66830	SCREW	1							
99	1	119600-66840	NUT, CAP	1							
100	1	22360-040000	PIN, SNAP 4	1							
101	1	22360-060000	PIN, SNAP 6	1							
102	1	26106-060702	BOLT, M6X 70 PLATED	5							
103	1	26116-050102	BOLT, M5X 10 PLATED	3							

Exploded view diagram of a mechanical assembly, likely a pump or motor, showing various components and their assembly sequence. The diagram includes a main assembly area with a dashed line indicating a sub-assembly. Components are labeled with numbers and letters (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). A legend at the bottom right states: 'x-MARK PARTS NOT SOLD SEPARATELY'.

Key components and labels visible in the diagram include:

- Top Section:** Components 59, 107, 107, 67, X72, X69, X71, X70, X68, 102, 99, 106, 61, 106, 98.
- Left Section:** Components 66, X55, 108, X63, 62, 64, 103, 2, 59, 3, 15, 26, 50, 57, 73, X76, X74, X77, X75, X96, X97, X78, X53, 54, 51, 56, 49, 57, 1, 60, 109, X52.
- Right Section:** Components X16, 14, 102, 105, 104, 55, 17, 28 (inc. X29-X38), 48, 21, 18 (inc. X19, X20), X39, 43, 45, X41, 44, 47, 27, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751,

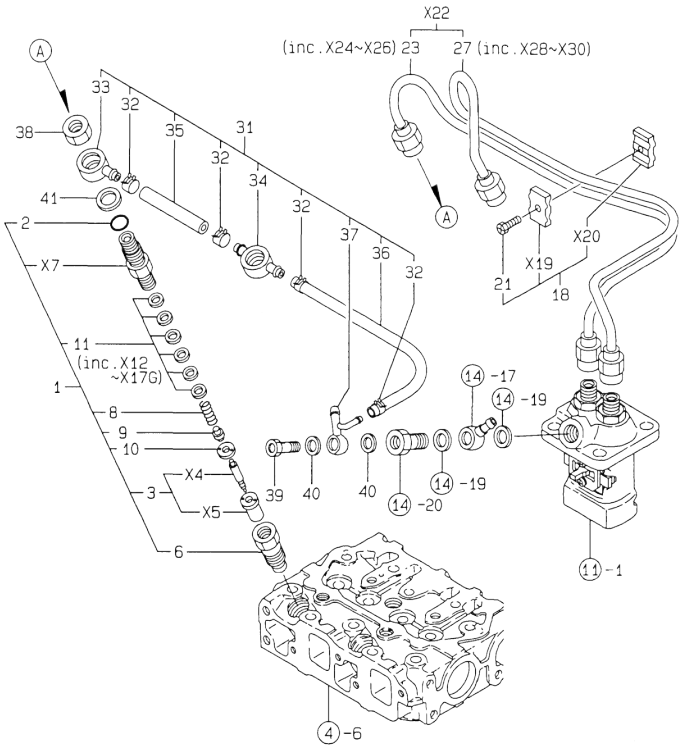
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).

[illegible]

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

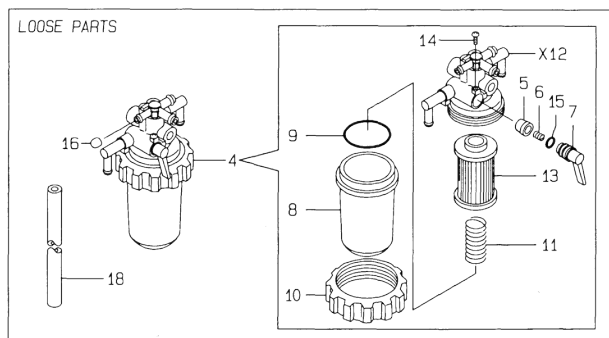
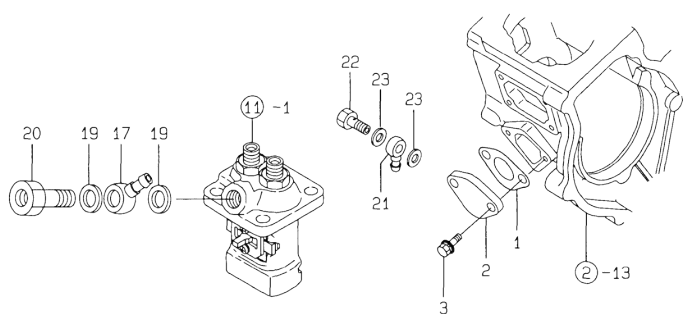
Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719620-53100	VALVE ASSY,INJECTION	2							
2	2	129155-61830	O-RING, S10	2							
3	2	119620-53000	VALVE ASSY,INJECTION	2							
6	2	119620-53080	NUT, NOZZLE	2							
8	2	119620-53120	SPRING, NOZZLE	2							
9	2	114250-53130	SEAT, SPRING	2							
10	2	119620-53140	SPACER, VALVE STOP	2							
11	2	114250-53400	SHIM SET	2							
18	1	119305-59120	RETAINER, PIPE	1							
21	2	129150-59131	BOLT, M4X14	1							
23	2	119309-59810	PIPE ASSY, INJECTION	1							
27	2	119309-59820	PIPE ASSY, INJECTION	1							
31	1	119332-59540	PIPE ASSY, RETURN	1							
32	2	124066-59100	CLIP, HOSE 8	4							
33	2	119260-59520	JOINT	1							
34	2	119260-59530	JOINT	1							
35	2	105025-59550	PIPE, FUEL RETURN	1							
36	2	119642-59550	PIPE, FUEL RETURN	1							
37	2	119642-59570	JOINT, OVER FLOW	1							
38	1	119620-59700	NUT, NOZZLE	2							
39	1	124550-59820	BOLT, PIPE JOINT M8	1							
40	1	23414-080012	GASKET, 8X1.0	2							
40-1	1	22190-080002	WASHER, SEAL 6	2							N
(A=E11531)											
41	1	23414-140000	GASKET, 14X1.0	2							
41-1	1	22190-140002	WASHER, SEAL 14	2							N
(A=E11531)											

14. FUEL LINE

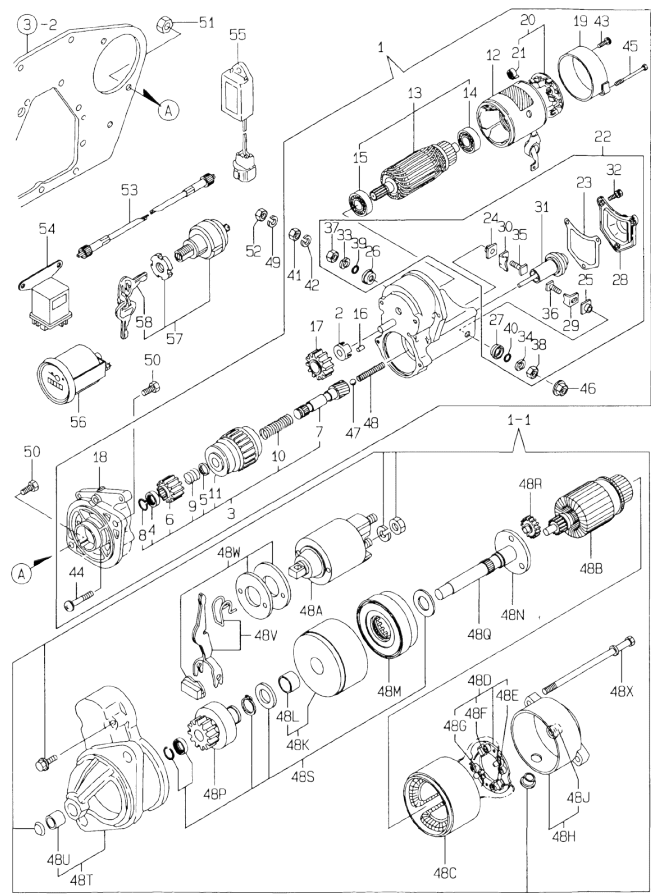


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	121520-01851	GASKET	1							
2	1	121520-01860	COVER	1							
3	1	26106-060162	BOLT, M6X 16 PLATED	2							
4	1	119632-55620	FILTER ASSY, FUEL	1							
5	2	104200-55321	VALVE, TAPER	1							
6	2	104200-55330	SPRING, VALVE	1							
7	2	119810-55340	LEVER	1							
8	2	121254-55510	COVER	1							
9	2	102103-55520	O-RING	1							
10	2	110250-55610	RING, RETAINING	1							
11	2	121250-55620	SPRING	1							
13	2	124550-55700	FILTER, FUEL L=90	1							
14	2	104200-55750	SCREW, M4	1							
15	2	24311-240100	O-RING, 1AP10A	1							
16	1	129150-59580	CAP	1							
17	1	101304-59020	JOINT, PIPE 12	1							
18	1	105225-59520	PIPE, FUEL	1							
19	1	104200-59170	GASKET, 12	2							
19-1 (A=E11531)	1	22190-120002	WASHER, SEAL 12	2							N
20	1	119650-59200	BOLT, PIPE JOINT M12	1							
21 (A=EXXX)	1	104264-59030	JOINT, PIPE 8	2							Z
22	1	105582-59150	BOLT, PIPE JOINT	2							Z
23 (A=EXXX) (A=EXXX)	1	22190-080002	WASHER, SEAL 6	4							Z

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Fig.15. STARTING MOTOR

15. STARTING MOTOR



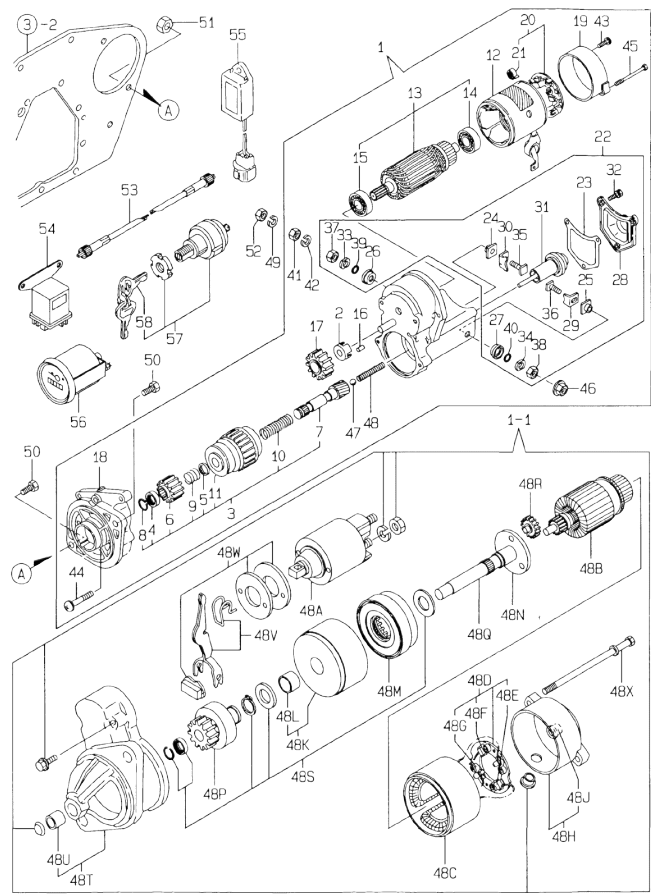
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124520-77011	STARTER	1							
1-1	1	129698-77010 (A=E23234)	STARTER, 12V1.2KW	1							N
2	2	X0280630011 (A=E23234)	RETAINER	1							Z
3	2	X0280992761 (A=E23234)	CLUTCH KIT	1							Z
4	3	X0280210230 (A=E23234)	NUT	1							Z
5	3	X0283270140 (A=E23234)	RETAINER	1							Z
6	3	X0283712350 (A=E23234)	PINION, STARTER	1							Z
7	3	X0283810040 (A=E23234)	SHAFT	1							Z
8	3	X9490721080 (A=E23234)	RING	1							Z
9	3	X9491703371 (A=E23234)	SPRING, COIL	1							Z
10	3	X9491704260 (A=E23234)	SPRING	1							Z
11	3	121120-77930 (A=E23234)	CASE ASSY, STARTER	1							Z
12	2	X0281003751 (A=E23234)	YOKE ASSY	1							Z
13	2	X0282001531 (A=E23234)	ARMATURE ASSY	1							Z
14	3	X9491001360 (A=E23234)	BEARING	1							Z
15	3	X9491001860 (A=E23234)	BALL BEARING	1							Z
16	2	X0283060061 (A=E23234)	ROLLER	5							Z
17	2	X0283711420 (A=E23234)	PINION	1							Z
18	2	X0284004910 (A=E23234)	HOUSING, STARTER	1							Z
19	2	X0285040631 (A=E23234)	FRAME ASSY	1							Z
20	2	X0285100460 (A=E23234)	HOLDER ASSY, BRUSH	1							Z
21	3	X9491730461 (A=E23234)	SPRING	4							Z
22	2	X0534006460 (A=E23234)	SWITCH, MAGNETIC	1							Z
23	3	X0534040320 (A=E23234)	GASKET	1							Z
24	3	X0534490120 (A=E23234)	BUSH	1							Z
25	3	X0534490120 (A=E23234)	BUSH	1							Z

N:Old $\frac{NBS}{100}$ New, Q:Old $\frac{HQ}{100}$ New, R:Old $\frac{RBS}{100}$ New, S:Old $\frac{SBS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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0CV10-M45701

Fig.15. STARTING MOTOR

15.STARTING MOTOR



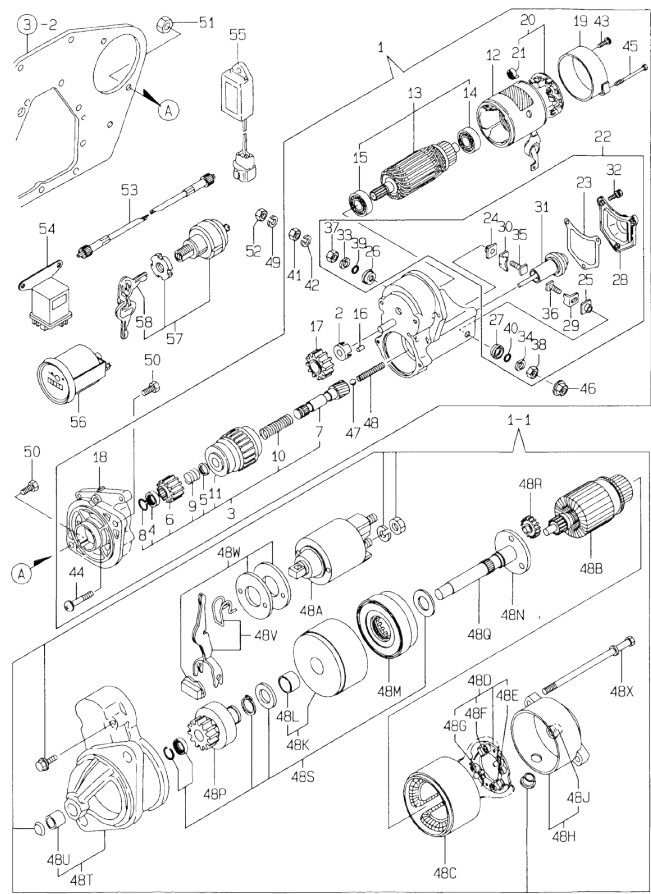
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	3	X0534490230	BUSH	1						Z	
(A=E23234)											
27	3	X0534490230	BUSH	1						Z	
28	3	X0535050620	COVER	1						Z	
(A=E23234)											
29	3	X0535130241	PLATE (B)	1						Z	
(A=E23234)											
30	3	X0535130320	PLATE (A)	1						Z	
31	3	X0536600401	PLUNGER	1						Z	
(A=E23234)											
32	3	X9151005141	BOLT W/WASHER	3						Z	
(A=E23234)											
33	3	X9490170900	WASHER	1						Z	
(A=E23234)											
34	3	X9490170900	WASHER	1						Z	
(A=E23234)											
35	3	X9490441303	BOLT	1						Z	
(A=E23234)											
36	3	X9490441312	BOLT	1						Z	
(A=E23234)											
37	3	X9490502820	NUT	1						Z	
(A=E23234)											
38	3	X9490502820	NUT	1						Z	
(A=E23234)											
39	3	X9491402100	O-RING	1						Z	
40	3	X9491402100	O-RING	1						Z	
(A=E23234)											
41	2	X9019008651	NUT	1						Z	
(A=E23234)											
42	2	X9025808001	WASHER	1						Z	
(A=E23234)											
43	2	X9490071810	SCREW W/WASHER	2						Z	
(A=E23234)											
44	2	X9490071970	SCREW W/WASHER	2						Z	
(A=E23234)											
45	2	X9490423330	BOLT W/WASHER	2							
45-1	2	X9490471500	BOLT W/WASHER	2						N	
(A=E23234)											
45-2	2	X9490471500	BOLT W/WASHER	2						Z	
(A=E23234)											
46	2	X9490561370	NUT	1						Z	
(A=E23234)											
47	2	X9491200240	BALL	1						Z	
(A=E23234)											
48	2	X9491703380	SPRING	1						Z	
(A=E23234)											
48A	2	129698-77020	MAGNETIC SWITCH ASSY	1							W
(A=E23234)											

N:Old $\frac{NBS}{100}$ New, Q:Old $\frac{HIS}{100}$ New, R:Old $\frac{HIS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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0CV10-M45701

Fig.15. STARTING MOTOR

15.STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
48B	2	129698-77100	ARMATURE ASSY	1							W
48C	2	129698-77110	COIL ASSY, FIELD	1							W
48D	2	129698-77120	HOLDER ASSY, BRUSH	1							W
48E	3	129698-77130	BRUSH (-)	2							W
48F	3	129698-77140	BRUSH(+) SET	1							W
48G	3	129698-77150	SPRING, BRUSH	4							W
48H	2	129698-77161	COVER ASSY	1							W
48J	3	129698-77170	BEARING	1							W
48K	2	129698-77180	BRACKET	1							W
48L	3	129698-77190	BRACKET	1							W
48M	2	129698-77200	GEAR, INTERNAL	1							W
48N	2	129698-77210	BRACKET	1							W
48P	2	129698-77220	PINION ASSY	1							W
48Q	2	129698-77230	SHAFT(PINION	1							W
48R	2	129698-77240	GEAR	3							W
48S	2	129698-77250	WASHER SET	1							W
48T	2	129698-77260	HOUSING ASSY, GEARS	1							W
48U	3	X2114535200	METAL, STARTER	1							W
48V	2	129698-77270	LEVER SET, SHIFT	1							W
48W	2	129698-77280	COVER KIT	1							W
48X	2	124195-77770	THROUGH BOLT	2							W
49	1	22217-080000	WASHER, SPRING 8	1							Z
50	1	26156-120302	BOLT, M12X 30 PLATED	2							
51	1	26376-120002	NUT, M12	1							
51-1	1	26376-120002	NUT, M12	2							K
52	1	26756-080002	NUT, LOCK M8	1							Z
53	1	194145-56901	CABLE,METER COMP.	1							

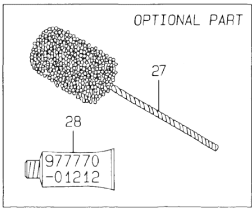
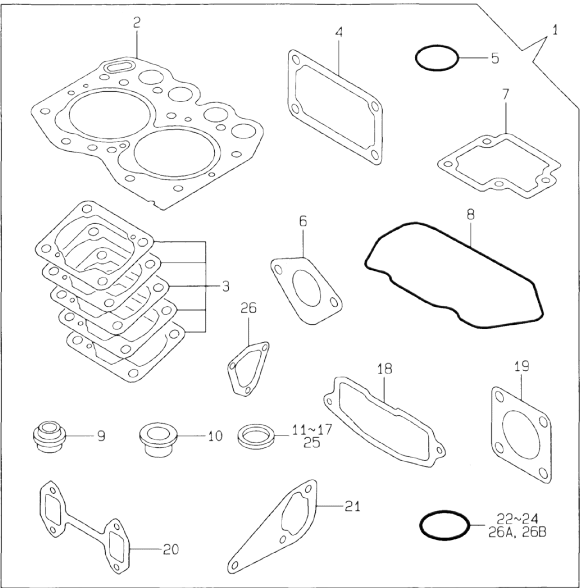
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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[illegible]

0CV10-M45701

Fig.16. GASKET SET

16.GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719325-92601	GASKET SET	1							1
1-1	1	719325-92640	GASKET SET	1						N	1
(A=E11531)											
2	2	119309-01330	GASKET, CYL. HEAD	1							
3	2	119305-01950	SHIM SET, ADJUSTING	1							
4	2	119660-01562	GASKET	1							
5	2	24311-000320	O-RING, 1AP32.0	2							
6	2	121520-01851	GASKET	1							
7	2	119305-03031	GASKET	1							
8	2	119305-11310	GASKET, BONNET	1							
9	2	119260-11340	SEAL, VALVE STEM	4							
10	2	119600-11450	PROTECTOR, NOZZLE	2							
11	2	119600-11460	GASKET, NOZZLE	4							
12	2	124465-44950	GASKET, 16	2							
13	2	22190-060003	SEAL WASHER 6	2							
14	2	22190-120002	WASHER, SEAL 12	2							
15	2	104200-59170	GASKET, 12	2							
15-1	2	22190-120002	WASHER, SEAL 12	2						N	
(A=E11531)											
16	2	23414-080012	GASKET, 8X1.0	2							
16-1	2	22190-080002	WASHER, SEAL 6	2						N	
(A=E11531)											
17	2	23414-140000	GASKET, 14X1.0	2							
17-1	2	22190-140002	WASHER, SEAL 14	2						N	
(A=E11531)											
18	2	119305-12160	GASKET, MANIFOLD	1							
18-1	2	119326-12111	GASKET, MANIFOLD	1						N	
(A=E11459)											
19	2	124701-11911	GASKET, SILENCER	1							
20	2	119305-13110	GASKET	1							
21	2	119260-42020	GASKET, WATER PUMP	1							
21-1	2	119260-42021	GASKET, WATER PUMP	1						N	
(A=E13728)											
22	2	24321-000350	O-RING, 1AG35.0	1							
22-1	2	119209-42140	O-RING, G 35	1						N	
(A=E13728)											
23	2	24311-000120	O-RING, 1AP12.0	5							
23-1	2	24311-000120	O-RING, 1AP12.0	2						K	
(A=E11459)											
24	2	24341-000240	O-RING, 1AS24.0	1							
25	2	22190-220002	WASHER, SEAL 22	1							
26	2	119660-61071	GASKET	1							
26A	2	119624-32040	O-RING, P12.0	2						W	
(A=E11459)											
26B	2	24311-000110	O-RING, 1AP11.0	1						W	
(A=E11459)											
26B-1	2	119209-35030	O-RING, P11	1						R	
(A=E04438)											
27	1	129400-92400	FLEX HORN	1							1
28	1	977770-01212	GASKET, LIQUID	1							1

Remarks

(1) OPTIONAL 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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Fig.17. GENERATOR

* USED FROM E23234.

				(A)=2TNE68-HIN (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I	R
1	1	129795-01900	STUD	1							
2	1	119626-77340	ADJUSTER	1							
3	1	119810-77340	BOLT, ADJUSTER	1							
4	1	26366-100002	NUT, M10	1							
5	1	129961-77210	GENERATOR, 12V-40A	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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101304-59020	14	17
102103-55520	14	9
104200-55321	14	5
104200-55330	14	6
104200-55750	14	14
104200-59170	14	19
	16	15
104264-59030	14	21
105010-11230	4	27
		31
105025-59550	13	35
105225-59520	14	18
105546-51330	11	24
105582-59150	14	22
110250-55610	14	10
114250-11120	4	17
114250-11180	4	18
114250-53130	13	9
114250-53400	13	11
118400-03060	4	50 -1
119131-18320	6	5 -1
119209-35030	9	26 -2
	16	26 B-1
119209-42140	10	20 -1
	16	22 -1
119225-35300	9	16
119225-42290	10	15
119225-42320	10	10
119225-51100	11	3
119225-51300	11	21
119232-61540	12	43
119256-49530	10	18 -1
119260-01200	1	21
119260-01510	2	15
119260-01590	2	1
119260-02020	1	5
119260-02410	1	19
119260-02800	1	13
119260-02930	1	16
119260-07900	4	3
119260-11100	4	15
119260-11110	4	16
119260-11260	4	37
119260-11270	4	39
119260-11280	4	40
119260-11340	4	20
	16	9
119260-11370	4	21
119260-11800	4	10
119260-14100	7	6

Parts No.	Fig. No.	Ref. No.
119260-14200	7	1
119260-14400	7	2
119260-21200	8	4
119260-23910	8	28
119260-25100	7	10
119260-32000	9	1
119260-42001	10	1
119260-42002	10	1 -1
119260-42020	10	12
	16	21
119260-42021	10	12 -1
	16	21 -1
119260-49530	10	18
119260-49800	10	19
119260-59520	13	33
119260-59530	13	34
119265-01250	1	9 -1
119265-11260	4	38
119265-22300	8	23
119265-22500	8	17
119265-22601	8	15
119265-23100	8	25
119265-23200	8	29
119266-01200	1	21 -1
119266-02410	1	19 -1
119266-51900	11	47
119285-01580	3	18
119285-01600	3	2 -1
119285-01601	3	2
119285-03140	4	1
119285-61120	12	11
119285-61130	12	12
119285-61140	12	13
119285-61210	12	14
119285-61510	12	27
119285-66080	12	51
119305-01490	2	13
119305-01760	3	10
119305-01950	2	21
	16	3
119305-03020	4	46
119305-03031	4	47
	16	7
119305-11240	4	34
119305-11310	4	49
	16	8
119305-11350	4	44
119305-12160	5	1
	16	18
119305-13100	6	1

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119305-13110	6	2
	16	20
119305-14200	7	16
119305-14580	7	3
119305-35150	9	15
119305-51500	11	30
119305-51530	11	32
119305-59120	13	18
119305-77820	4	57
119309-01330	1	22
	16	2
119309-21700	8	1
119309-59810	13	23
119309-59820	13	27
119325-11200	4	25
119325-21650	8	8
119326-12111	5	1 -1
	16	18 -1
119332-59540	13	31
119385-01740	3	15
119385-12730	5	2
119385-21592	8	12 -1
119385-21600	8	12
119385-35080	9	25
119385-49310	10	28
119385-49331	10	29
119600-11450	4	23
	16	10
119600-11460	4	24
	16	11
119600-61100	12	4
119600-61200	12	5
119600-61541	12	44
119600-61650	12	45
119600-61900	12	49
119600-66020	12	59
119600-66530	12	67
119600-66840	12	99
119610-66700	12	73
119620-01620	3	5
119620-01800	2	3
119620-02450	7	4
119620-11350	4	42
119620-11390	4	50
119620-21500	8	11
119620-21941	8	10
119620-25912	7	12
119620-42291	10	15 -1
119620-42350	10	14
119620-49290	10	25

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119620-51180	11	7
119620-51190	11	8
119620-51250	11	9
119620-51340	11	25
119620-51350	11	26
119620-51370	11	27
119620-51450	11	28
119620-51510	11	31
119620-51650	11	33
119620-51660	11	34
119620-51670	11	35
119620-51680	11	36
119620-51700	11	37
119620-53000	13	3
119620-53080	13	6
119620-53120	13	8
119620-53140	13	10
119620-59700	13	38
119621-21680	8	9
119621-66051	12	60
119624-32040	2	5 -1
	16	26 A
119626-77340	17	2
119632-55620	14	4
119632-77920	15	55
119640-01640	3	12
119642-59550	13	36
119642-59570	13	37
119645-49010	10	31
119645-49020	10	32
119650-59200	14	20
119650-77910	15	54
119653-66500	12	62
119656-34802	9	13
119660-01551	2	18
119660-01562	2	19
	16	4
119660-01570	2	20
119660-01640	3	6
119660-01911	2	4
119660-25022	7	8
119660-25052	7	9
119660-32020	9	11
119660-61052	12	17
119660-61060	12	2
119660-61071	12	3
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119660-61300	12	9
119660-61341	12	10

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119660-61491	12	26
119660-61590	12	26 -1
119660-61901	12	50
119660-77330	10	37
119810-01790	3	11
119810-55340	14	7
119810-77340	17	3
119840-61870	12	109
119843-01780	3	11 -1
119860-34810	9	14
121120-77930	15	11
121250-44901	10	22
121250-55620	14	11
121252-39450	9	28 -1
121254-55510	14	8
121400-91251	15	57
121400-91271	15	58
121450-01560	2	16
121450-42450	10	23
121465-12510	5	8
121465-59950	12	108
121500-12790	5	4
121520-01851	14	1
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121520-01860	14	2
121575-66830	12	98
124060-01050	1	4
124060-21600	8	14
124064-12680	5	11
124064-12690	5	12
124066-59100	13	32
124085-02220	3	8
124160-01751	2	11
	4	45
124160-11360	4	54
124160-39450	9	28
124195-77770	15	48 X
124465-44950	10	24
	16	12
124520-77011	15	1
124550-55700	14	13
124550-59820	13	39
124550-66370	12	61
124701-11911	6	7
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124750-44740	10	16
124970-12500	5	7
124970-12640	5	9
124970-12660	5	10

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129100-01580	3	1
	8	2
129100-61930	12	58
129150-35350	9	24
129150-59131	13	21
129150-59580	14	16
129150-91400	2	27
129155-51280	12	15
129155-61480	12	21
129155-61830	13	2
129155-77800	4	56
129211-77920	15	55 -1
129400-92400	16	27
129698-77010	15	1 -1
129698-77020	15	48 A
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129698-77130	15	48 E
129698-77140	15	48 F
129698-77150	15	48 G
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129698-77170	15	48 J
129698-77180	15	48 K
129698-77190	15	48 L
129698-77200	15	48 M
129698-77210	15	48 N
129698-77220	15	48 P
129698-77230	15	48 Q
129698-77240	15	48 R
129698-77250	15	48 S
129698-77260	15	48 T
129698-77270	15	48 V
129698-77280	15	48 W
129795-01900	17	1
129961-77210	17	5
171008-03990	4	2
171011-44301	10	34
171080-91100	15	56
171375-44300	10	33
171375-44320	10	35
174307-51460	11	29
174307-51700	12	28
194145-56901	15	53
194990-22050	2	25
	12	1
22117-040000	12	46
22137-040000	11	41
22190-060003	12	106

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	14	23
	16	16 -1
22190-120002	12	107
	14	19 -1
	16	14
		15 -1
22190-140002	13	41 -1
	16	17 -1
22190-220002	3	14
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22217-040000	11	42
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22242-000100	4	41
22242-000200	7	14
22252-000200	8	24
22272-000040	12	47
22322-030160	12	54
22351-030012	8	7
22351-030014	12	48
22351-040010	2	17
	12	55
22351-060012	4	22
22360-040000	12	100
22360-060000	12	101
22512-040120	7	7
		19
	8	5
22857-500100	4	53 -1
23414-080012	13	40
	16	16
23414-140000	13	41
	16	17
23871-020000	4	13
23876-020000	4	13 -1
24102-063034	7	20
24311-000110	9	26 -1
	16	26 B
24311-000120	2	5
	4	55
	9	26
	16	23
		23 -1
24311-000320	2	12
	4	52
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24341-000070	12	56
24341-000240	2	29
	16	24
24341-000280	12	64
26014-060122	10	17 -1
26014-060142	10	17
26014-080252	10	38
26022-040082	11	43
26033-040102	11	44 -1
26106-060102	12	57
26106-060122	1	20
	7	15
	9	27
26106-060142	3	17
26106-060162	2	6
		30
	5	5
	10	21 -1
	14	3
26106-060182	10	21
26106-060202	3	19
26106-060222	3	9
26106-060252	10	30
26106-060282	5	6
26106-060302	2	7
26106-060402	2	8
	6	3
26106-060452	3	16
26106-060502	2	9
26106-060552	3	20
	10	41
26106-060652	2	10
26106-060702	12	102
26106-060952	12	66
26106-080102	3	21
26106-080142	4	4
		5
26106-080182	10	39
26106-080452	10	13
26106-100352	10	40
26106-100402	10	40 -1
		40 -2
26116-050102	12	103
26116-060304	12	104
26156-120302	15	50
26206-100202	3	3
26206-100252	3	4
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26366-060002	2	26
	6	6
26366-080002	4	43
26366-100002	17	4
26376-120002	15	51
		51
26450-060202	9	-1
26557-050102	4	12
26587-040102	11	44
26706-100002	10	36
26736-120002	12	97 -1
26756-060002	4	29
		33
	12	105
26756-080002	15	52
26776-120002	12	97
27221-050080	4	14
27221-060100	1	8
27231-400000	1	9
27241-100000	1	10
27241-250000	1	11
27241-300000	1	12
27241-350000	4	12
27310-055000	4	19
719260-02870	1	23
719260-23600	8	30
719260-23610	8	32
719305-51100	11	1
719325-01560	1	1
719325-11700	4	6
719325-92601	16	1
719325-92640	16	-1
719489-11650	4	26
719489-11660	4	30
719620-53100	13	1
977770-01212	2	31
	3	22
	16	28
X0280210230	15	4
X0280630011	15	2
X0280992761	15	3
X0281003751	15	12
X0282001531	15	13
X0283060061	15	16
X0283270140	15	5
X0283711420	15	17
X0283712350	15	6
X0283810040	15	7

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X0285040631	15	19
X0285100460	15	20
X0534006460	15	22
X0534040320	15	23
X0534490120	15	24
		25
X0534490230	15	26
		27
X0535050620	15	28
X0535130241	15	29
X0535130320	15	30
X0536600401	15	31
X2114535200	15	48 U
X9019008651	15	41
X9025808001	15	42
X9151005141	15	32
X9490071810	15	43
X9490071970	15	44
X9490170900	15	33
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X9490423330	15	45
X94904441303	15	35
X94904441312	15	36
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X9490502820	15	37
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X9490561370	15	46
X9490721080	15	8
X9491001360	15	14
X9491001860	15	15
X9491200240	15	47
X9491402100	15	39
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X9491703371	15	9
X9491703380	15	48
X9491704260	15	10
X9491730461	15	21