

0CW10-M43000EN

P R E F A C E

1. This parts catalog is the 1st edition of 4TNV84T-BGKM for KOHLER.

Pub.No. : 0CW10-G43000

Published : September , 2008

2. Model name

Engine model	Vehicle	Vehicle made by
4TNV84T-BGKM	GENERATOR	KOHLER

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601		29. FUEL INJECTION PUMP(W/BOOST)									
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	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	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 COMPENSATOR TYPE. OPTIONAL PART, TO E00155, (4JH-DT, 4JH-DTZ)

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Mark

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

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

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.	Note 1)	Date

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

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

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

⑤ Remarks Mark

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

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

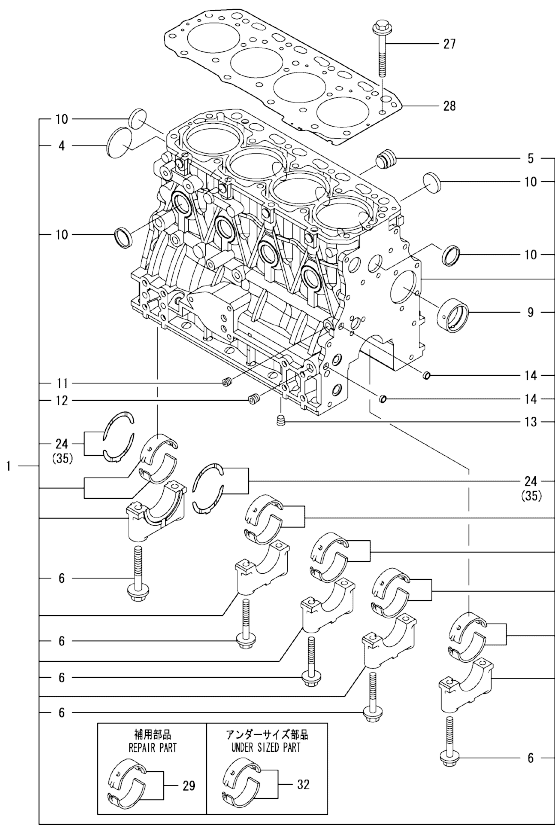
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0CW10-M43000

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4.	CYLINDER HEAD & BONNET		
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10.	LUB.OIL LINE		
11.	COOLING FRESH WATER SYSTEM		
12.	COOLING SEA WATER SYSTEM		
13.	COOLING FRESH WATER COOLER		
14.	FUEL INJECTION PUMP		
15.	GOVERNOR		
16.	FUEL INJECTION VALVE		
17.	FUEL LINE		
18.	STARTING MOTOR		
19.	GASKET SET		

0CW10-M43000 4TNV84T-BGKM

Fig.1. CYLINDER BLOCK



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

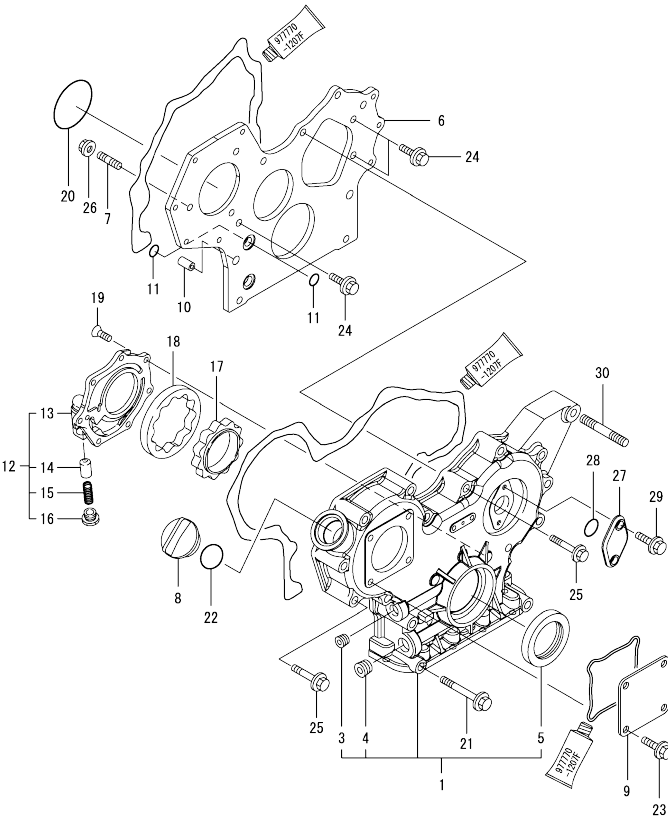
0CW10-M43000 Fig.1

(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729508-01560	BLOCK ASSY, CYLINDER	1							
4	2	129001-01250	PLUG, 50	1							
5	2	171051-01921	PLUG, NPTF1	1							
6	2	129150-02020	BOLT, METAL CAP	10							
9	2	129795-02412	BUSH, CAMSHAFT	1							
10	2	27241-300000	PLUG 30	8							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	2							
13	2	124160-01910	PLUG, PT1/4	1							
14	2	27241-120000	PLUG, 12	2							
24	2	129150-02931	BEARING, THRUST	2							
27	1	129150-01200	BOLT, HEAD	18							
28	1	129508-01330	GASKET, HEAD	1							
29	1	129001-02931	BEARING, MAIN	5							1
32	1	129150-02871	BEARING, 0.25 US	5							2
35	1	129150-02941	BEARING, THRUST 0.25	1							3

Fig.2. GEAR HOUSING

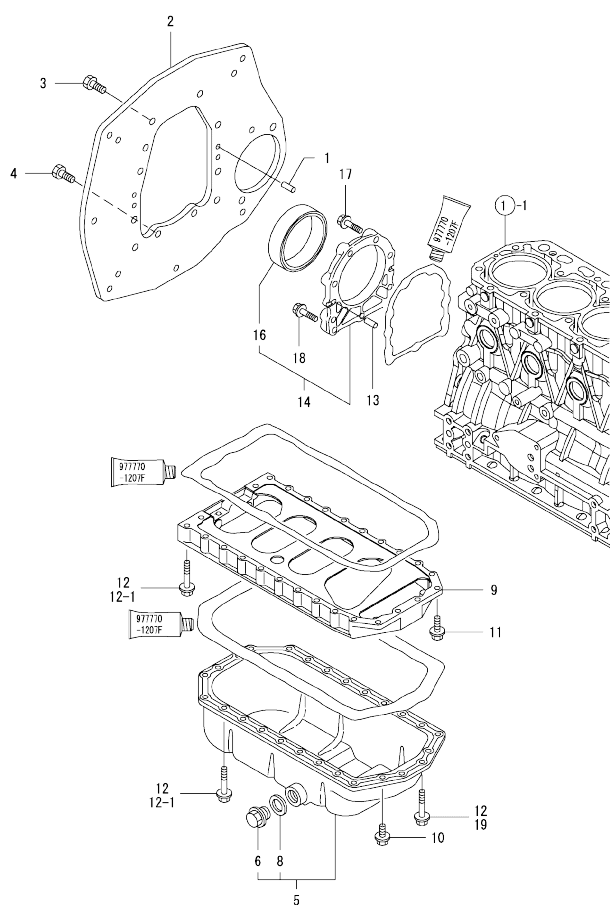


(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729508-01500	CASE ASSY, GEAR	1							
3	2	23876-030000	PLUG, R03	1							
4	2	23876-040000	PLUG, R04	1							
5	2	129795-01800	SEAL, OIL	1							
6	1	119802-01520	FLANGE, GEAR CASE	1							
7	1	119802-01561	STUD, M8X25	3							
8	1	124160-01751	COVER, FILLER	1							
9	1	124240-01871	COVER	1							
10	1	129795-01950	PIPE, KNOCK L=18	2							
11	1	119609-32040	O-RING, P16	4							
12	1	119802-32100	COVER ASSY	1							
13	2	119802-32070	COVER	1							
14	2	129900-32130	VALVE, RELIEF	1							
15	2	129418-32320	SPRING	1							
16	2	129001-32330	PLUG	1							
17	1	129508-32111	ROTOR, INNER	1							
18	1	129508-32120	ROTOR, OUTER	1							
19	1	119802-32130	SCREW, M6X16	7							
20	1	121850-51960	O-RING	1							
21	1	129001-91841	BOLT, M8X85	3							
22	1	24311-000320	O-RING, 1AP32.0	1							
23	1	26106-080162	BOLT, M8X 16 PLATED	4							
24	1	26106-080162	BOLT, M8X 16 PLATED	3							
25	1	26106-080552	BOLT, M8X 55 PLATED	12							
26	1	26306-080002	NUT, M8	3							
27	1	121023-01551	COVER	1							
28	1	24341-000240	O-RING, 1AS24.0	1							
29	1	26106-060162	BOLT, M6X 16 PLATED	2							
30	1	129795-01900	STUD	1							

Fig.3. MOUNTING FLANGE & OIL SUMP



(A)=4TNV84T-BGKM
(B)=
(C)=

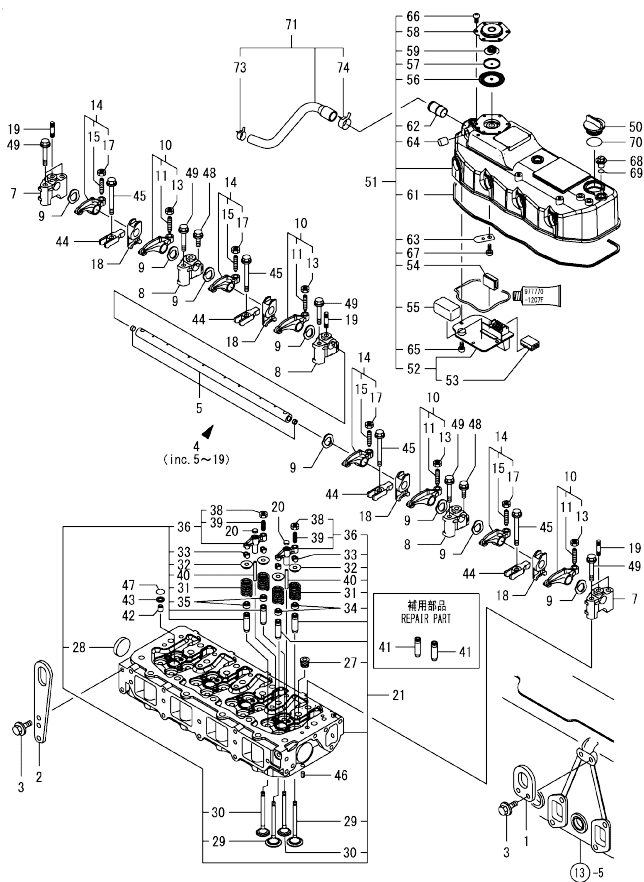
(D)=
(E)=
(F)=

[illegible]

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

0CW10-M43000 4TNV84T-BGKM

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

0CW10-M43000 Fig.4

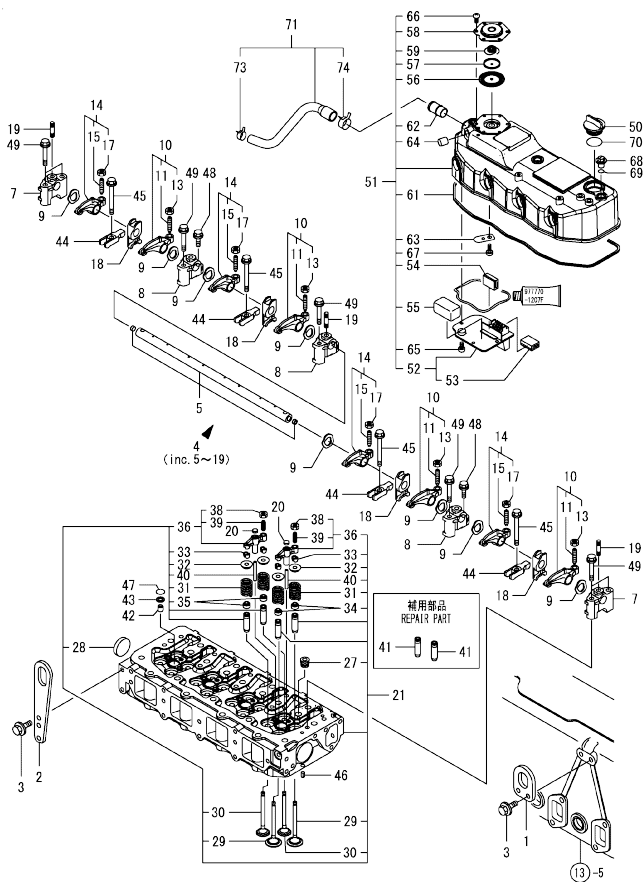
(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-07230	LIFTER	1							
2	1	129900-07900	LIFTER	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	4							
4	1	129508-11241	SHAFT ASSY, ROCKER	1							
5	2	129508-11250	SHAFT, ROCKER ARM	1							
7	2	129508-11260	SUPPORT, ROCKER ARM	2							
8	2	129508-11270	SUPPORT, ROCKER ARM	3							
9	2	129508-11280	WASHER	8							
10	2	129508-11650	ARM, ROCKER	4							
11	3	129150-11230	SCREW, VALVE ADJUST	4							
13	3	129150-11750	NUT, M8	4							
14	2	129508-11660	ARM, ROCKER	4							
15	3	129150-11230	SCREW, VALVE ADJUST	4							
17	3	129150-11750	NUT, M8	4							
18	2	129508-11920	RETAINER	4							
19	2	26226-080352	STUD, M8X 35	3							
20	1	123907-11550	SEAT, VALVE BRIDGE	8							
21	1	129509-11700	HEAD ASSY, CYLINDER	1							
27	2	23876-020000	PLUG, R02	4							
28	2	27241-400000	PLUG, 40	2							
29	2	129508-11100	VALVE, INTAKE	8							
30	2	129508-11110	VALVE, EXHAUST	8							
31	2	129508-11130	SPRING, VALVE	16							
32	2	129508-11180	RETAINER, SPRING	16							
33	2	119717-11190	COTTER	32							
34	2	119717-11340	SEAL, VALVE STEM	8							
35	2	119717-11350	SEAL, VALVE STEM	8							
36	2	129672-11510	BRIDGE ASSY, VALVE	8							
38	3	129150-11750	NUT, M8	8							
39	3	123907-11830	ADJUSTER	8							
40	2	129508-11820	GUIDE	8							
41	1	119717-11800	GUIDE, VALVE	16							1
42	1	119802-11870	PROTECTOR, NOZZLE	4							
43	1	119625-11880	SEAT, NOZZLE	4							
44	1	129508-11900	RETAINER, NOZZLE	4							
45	1	129907-11950	BOLT, M8X75	4							
46	1	22351-060012	PIN, SPRING 6.0X12	2							
47	1	24311-000120	O-RING, 1AP12.0	4							
48	1	26106-080252	BOLT, M8X 25 PLATED	3							
49	1	26106-080502	BOLT, M8X 50 PLATED	7							
50	1	124160-01751	COVER, FILLER	1							
51	1	129584-11350	BONNET ASSY, HEAD	1							
52	2	129508-03010	PLATE	1							
53	3	119802-03070	BAFFLE, BREATHER	1							
54	2	129150-03070	BAFFLE, BREATHER	1							
55	2	129907-03070	BAFFLE, BREATHER	1							
56	2	123907-03100	DIAPHRAGM	1							
57	2	123907-03110	PLATE	1							
58	2	123907-03120	PLATE, BREATHER	1							
59	2	123907-03140	SPRING, DIAPHRAGM	1							
61	2	129508-11310	GASKET, BONNET	1							

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



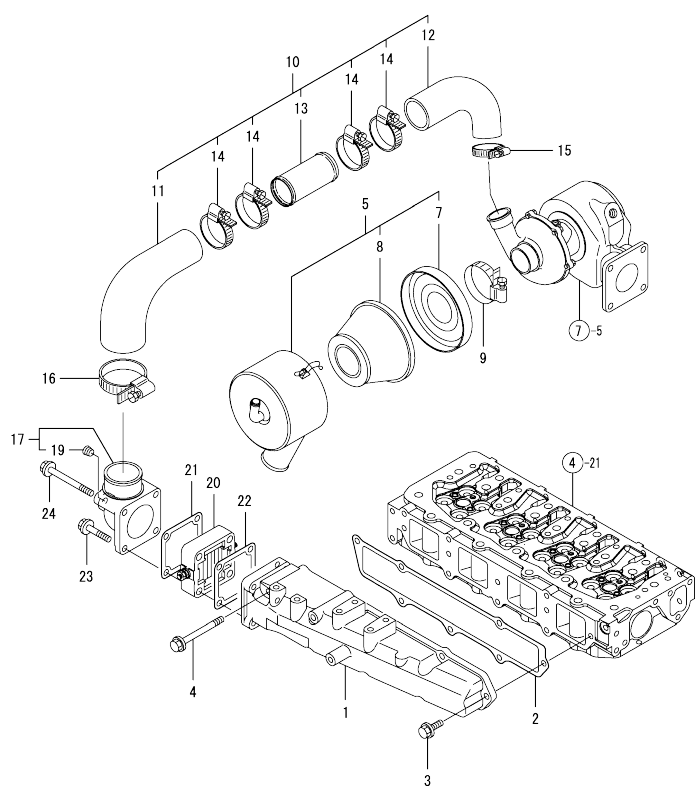
Remarks
(1) REPAIR PART.

(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
62	2	129001-11340	PIPE , BREATHER	1							
63	2	129009-11340	SPRING	1							
64	2	119640-61400	PLUG	1							
65	2	22857-500100	SCREW, 5X10	4							
66	2	22857-500100	SCREW, 5X10	6							
67	2	22857-500100	SCREW, 5X10	1							
68	1	124160-11360	KNOB	3							
69	1	24311-000120	O-RING, 1AP12.0	3							
70	1	24311-000320	O-RING, 1AP32.0	1							
71	1	129584-03010	PIPE ASSY, BREATHER	1							
73	2	129301-03660	CLAMP 16	1							
74	2	129410-03990	CLAMP 22	1							

Fig.5. SUCTION MANIFOLD



0CW10-M43000 Fig.5

(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129508-12100	MANIFOLD, AIR INTAKE	1							
2	1	129508-12110	GASKET, MANIFOLD	1							
3	1	26106-080202	BOLT, M8X 20 PLATED	5							
4	1	26106-080802	BOLT, M8X 80 PLATED	2							
5	1	129477-12500	SILENCER ASSY	1							
7	2	129477-12530	PLATE	1							
8	2	124770-12540	ELEMENT	1							
9	1	23000-048000	CLAMP, 48	1							
10	1	129649-12851	HOSE ASSY, INTAKE	1							
11	2	129649-12811	PIPE, AIR INTAKE	1							
12	2	129649-12821	PIPE, AIR INTAKE	1							
13	2	129649-12832	JOINT	1							
14	2	23000-054000	CLAMP, 54	4							
15	1	23000-048000	CLAMP, 48	1							
16	1	23000-060000	CLAMP, 60	1							
17	1	129649-12210	JOINT ASSY	1							
19	2	23876-010000	PLUG, R01	1							
20	1	129579-77500	HEATER	1							
21	1	129100-77510	GASKET, AIR HEATER	1							
22	1	129150-77511	GASKET	1							
23	1	26106-080402	BOLT, M8X 40 PLATED	2							
24	1	26106-080802	BOLT, M8X 80 PLATED	2							

Fig.6. CAMSHAFT & DRIVING GEAR

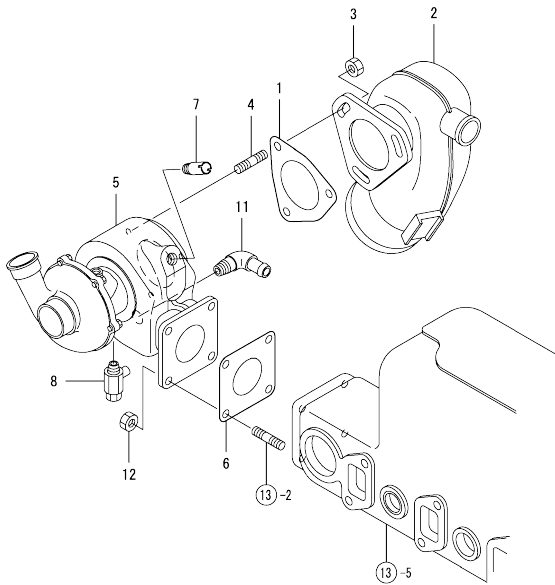


N:Old $\xrightarrow[\text{no}]{\text{yes}}$ New, Q:Old $\xrightarrow[\text{yes}]{\text{no}}$ New, R:Old $\xrightarrow[\text{yes}]{\text{no}}$ New, S:Old $\xrightarrow[\text{no}]{\text{yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Q'ty	I	R
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No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-14200	TAPPET	8							
2	1	129150-14400	ROD, PUSH L=178	8							
3	1	129508-14580	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	119802-25051	SHAFT, IDLE	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	119802-25071	BUSH, IDLE GEAR	1							1
14	1	26106-080402	BOLT, M8X 40 PLATED	3							
15	1	129150-25301	BOLT	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	158552-51151	FLANGE	1							
18	1	22217-140000	WASHER, SPRING 14	1							
19	1	26776-140002	NUT, LOCK M14	1							

Fig.7. TURBINE

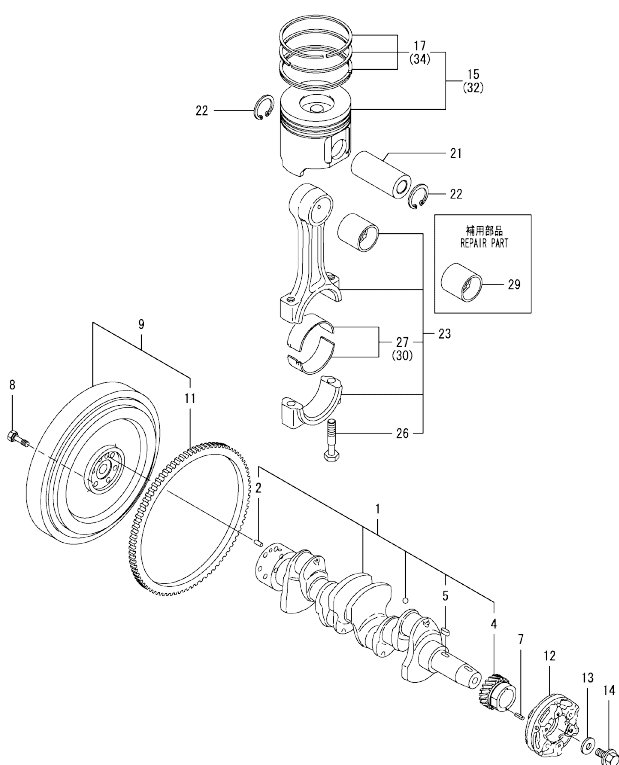


(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129472-13520	GASKET	1							
2	1	129579-13551	ELBOW	1							
3	1	26703-080002	NUT, M8	4							
4	1	128170-13600	STUD, M8X31	3							
5	1	129611-18040	TURBINE, RHB31GW	1							
6	1	129792-18091	GASKET	1							
7	1	104407-44480	JOINT	1							
8	1	129670-49290	COCK ASSY, R1/8	1							
11	1	171007-49400	JOINT	1							
12	1	26703-080002	NUT, M8	4							

Fig.8. CRANKSHAFT & PISTON



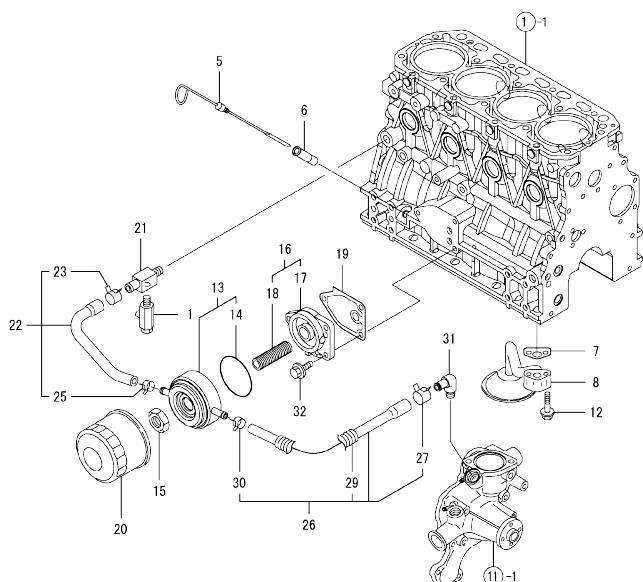
Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129508-21002	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119802-21202	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	121111-21501	BOLT, FLYWHEEL	6							
9	1	129489-21570	FLYWHEEL ASSY	1							
11	2	124550-21600	GEAR, RING	1							
12	1	129579-21651	V-PULLEY	1							
13	1	129795-21661	WASHER	1							
14	1	121850-21680	BOLT	1							
15	1	129508-22080	PISTON ASSY	4							
17	2	129004-22500	RING SET, PISTON	4							
21	1	129202-22300	PIN, PISTON D26 L70	4							
22	1	22252-000260	RING, 26	8							
23	1	729402-23100	ROD ASSY, CONNECTING	4							
26	2	121550-23200	BOLT, CONNECTING ROD	8							
27	2	129150-23601	BEARING, CRANK PIN	4							
29	1	129100-23910	BEARING, PISTON PIN	4							1
30	1	129150-23611	BEARING, 0.25 US	4							2
32	1	129508-22900	PISTON ASSY, 0.25 OS	4							3
34	2	129004-22950	RING SET, 0.25 OS	4							

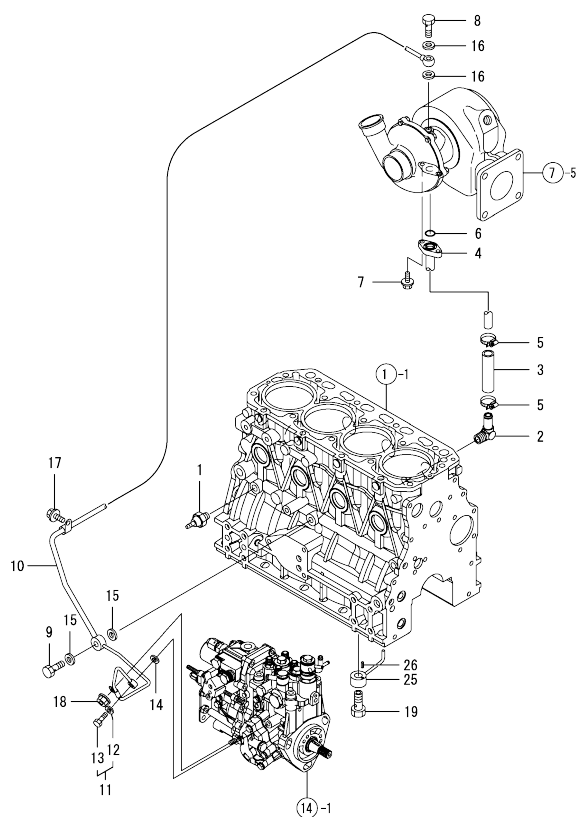
N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change



Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119620-49290	COCK ASSY, 1/4	1							
5	1	129005-34802	DIPSTICK, OIL	1							
6	1	121520-34810	GUIDE, DIPSTICK	1							
7	1	129150-35042	GASKET	1							
8	1	129150-35091	PIPE ASSY, OIL INLET	1							
12	1	26106-080352	BOLT, M8X 35 PLATED	2							
13	1	129508-33010	COOLER ASSY, OIL	1							
14	2	129508-33050	O-RING	1							
15	1	129417-33110	NUT	1							
16	1	129006-35100	BRACKET ASSY, FILTER	1							
17	2	119802-35110	BRACKET, FILTER	1							
18	2	129417-35150	STUD, L=67	1							
19	1	129150-35111	GASKET	1							
20	1	129150-35170	FILTER,LO	1							1
21	1	129006-44480	JOINT	1							
22	1	129508-49030	PIPE ASSY, WATER	1							
23	2	171008-03990	CLIP, HOSE 18.5	1							
25	2	23080-015000	CLAMP, 15	1							
26	1	129508-49040	PIPE ASSY, WATER	1							
27	2	171008-03990	CLIP, HOSE 18.5	1							
29	2	119940-59130	TUBE, CORRUGATED	1							
30	2	23080-015000	CLAMP, 15	1							
31	1	129466-49300	ELBOW, PT3/8	1							
32	1	26106-080202	BOLT, M8X 20 PLATED	3							

Fig.10. LUB.OIL LINE



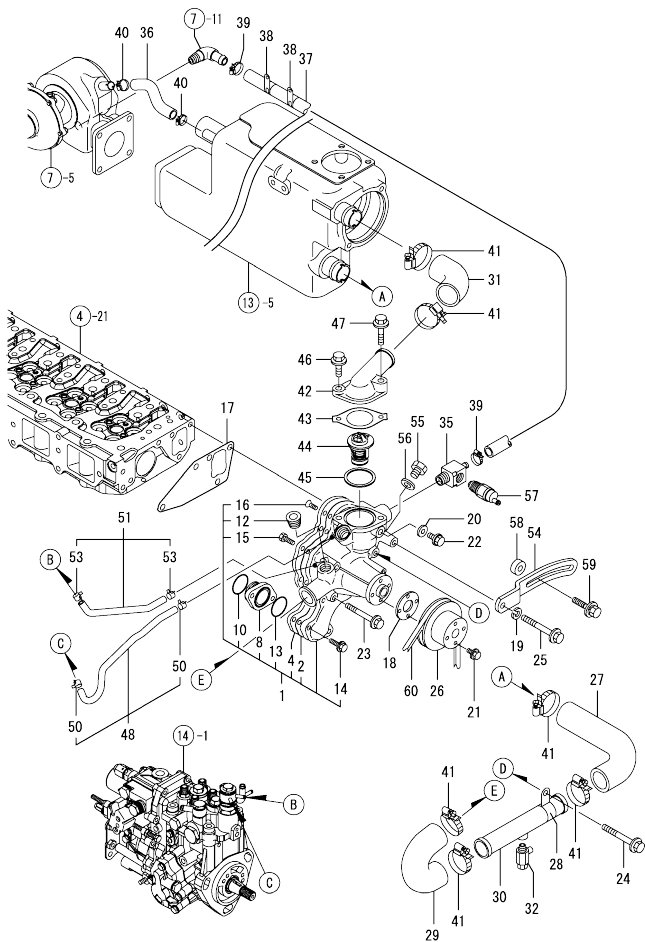
(D)=
(E)=
(F)=

(A)=4TNV84T-BGKM
(B)=
(C)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	114250-39450	SWITCH, 0.5KG	1							
2	1	128270-13620	JOINT, PIPE PT3/8	1							
3	1	129403-39610	JOINT, RUBBER	1							
4	1	129577-39611	PIPE, OIL	1							
5	1	23000-022000	CLAMP, 22	2							
6	1	24316-000160	O-RING, 4DP16.0	1							
7	1	26106-060162	BOLT, M6X 16 PLATED	2							
8	1	105010-39140	BOLT, PIPE JOINT	1							
9	1	124160-39140	BOLT, PIPE JOINT M10	1							
10	1	129649-39450	PIPE ASSY, OIL	1							
11	1	129005-59830	BOLT ASSY, JOINT M8	1							
12	2	22190-080002	WASHER, SEAL 6	1							
13	2	23857-030000	BOLT, JOINT 3	1							
14	1	22190-080002	WASHER, SEAL 6	1							
15	1	22190-100002	WASHER, SEAL 10	2							
16	1	23414-080000	GASKET, 8X1.0	2							
17	1	26106-080122	BOLT, M8X 12 PLATED	1							
18	1	26366-060002	NUT, M6	1							
19	1	129792-39410	VALVE ASSY, CHECK	4							
25	1	129553-39650	NOZZLE	4							
26	1	22351-030010	PIN, SPRING 3.0X10	4							

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

Fig.11. COOLING FRESH WATER SYSTEM



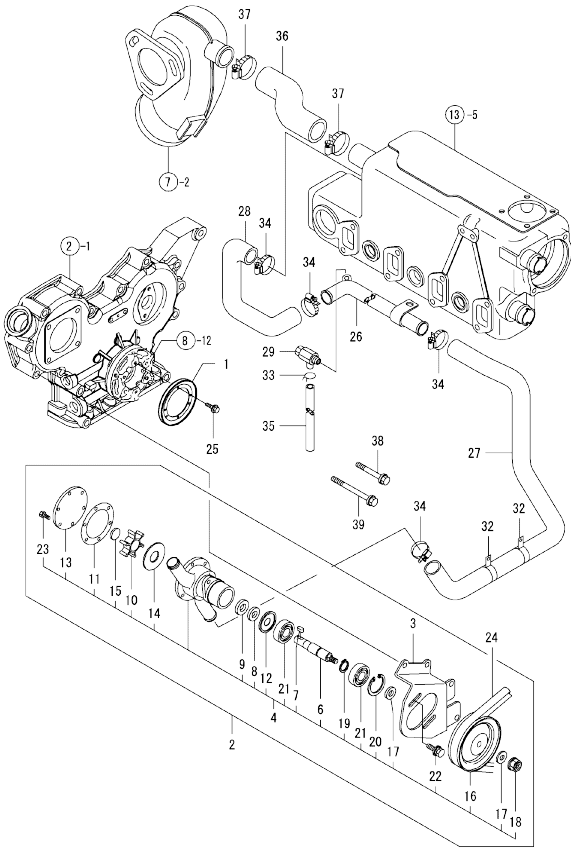
(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129247-42000	PUMP ASSY, WATER	1							
2	2	129150-42059	GASKET	1							
4	2	129263-42120	PLATE	1							
8	2	129150-42301	FLANGE	1							
10	2	129054-42320	O-RING	1							
12	2	129916-49740	PLUG, R03	2							
13	2	24358-240310	O-RING, 524031	1							
14	2	26106-060202	BOLT, M6X 20 PLATED	2							
15	2	26116-060162	BOLT, M6X 16 PLATED	3							
16	2	26577-060162	SCREW, M6X16	3							
17	1	129486-42050	GASKET, WATER PUMP	1							
18	1	129156-44760	WASHER	1							
19	1	22217-080000	WASHER, SPRING 8	1							
20	1	23414-080000	GASKET, 8X1.0	1							
21	1	26106-060102	BOLT, M6X 10 PLATED	4							
22	1	26106-080122	BOLT, M8X 12 PLATED	1							
23	1	26106-080552	BOLT, M8X 55 PLATED	2							
24	1	26106-080552	BOLT, M8X 55 PLATED	1							
25	1	26106-080652	BOLT, M8X 65 PLATED	1							
26	1	129550-42350	V-PULLEY, D=120	1							
27	1	129470-49200	JOINT, RUBBER	1							
28	1	129470-49220	RETAINER	1							
29	1	129470-49240	JOINT, RUBBER 28	1							
30	1	129470-49250	PIPE, WATER	1							
31	1	129470-49260	JOINT, RUBBER	1							
32	1	129670-49290	COCK ASSY, R1/8	1							
35	1	129473-49310	JOINT, PT3/8-8	1							
36	1	129579-49320	HOSE, RUBBER	1							
37	1	129693-49500	PIPE, WATER	1							
38	1	194440-51620	CLAMP	2							
39	1	23000-013000	CLAMP, 13	2							
40	1	23000-025000	CLAMP, 25	2							
41	1	23000-041000	CLAMP, 41	6							
42	1	129470-49540	COVER, THERMOSTAT	1							
43	1	129795-49551	GASKET	1							
44	1	129457-49801	THERMOSTAT, 82	1							
45	1	129470-49810	GASKET, THERMOSTAT	1							
46	1	26106-080252	BOLT, M8X 25 PLATED	1							
47	1	26106-080352	BOLT, M8X 35 PLATED	1							
48	1	129263-49610	PIPE, WATER	1							
50	2	124722-59050	CLIP, HOSE 9	2							
51	1	129263-49620	PIPE, WATER	1							
53	2	124722-59050	CLIP, HOSE 9	2							
54	1	129410-77330	ADJUSTER	1							
55	1	121450-42450	PLUG, M16	1							
56	1	124465-44950	GASKET, 16	1							
57	1	127610-91350	SWITCH, 95	1							
58	1	119940-77270	SPACER, GENERATOR	1							
59	1	119802-77340	BOLT, ADJUSTER	1							
60	1	25132-004400	V-BELT, A44	1							

N:Old $\frac{NBS}{100}$ New, O:Old $\frac{HIS}{100}$ New, R:Old $\frac{NBS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.12. COOLING SEA WATER SYSTEM



Remarks
LOOSE PART

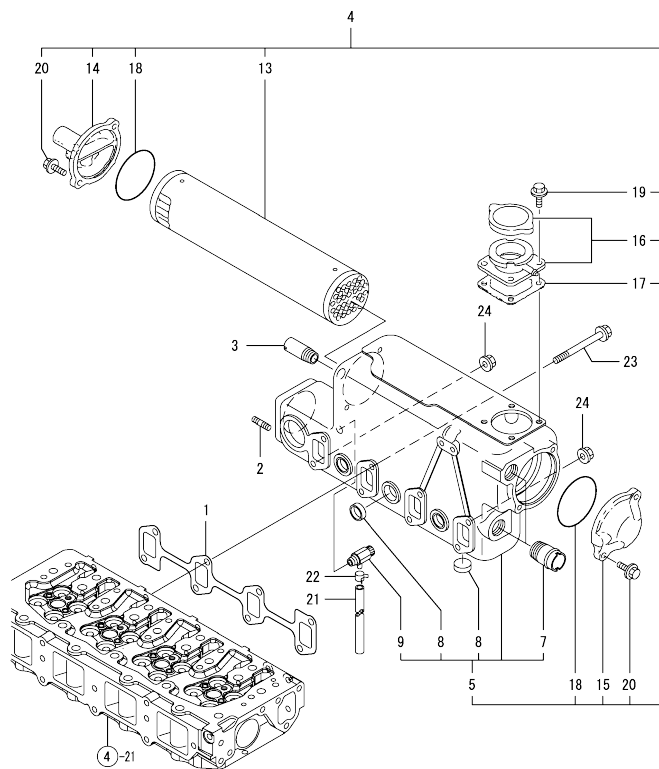
(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	104407-21600	V-PULLEY	1							
2	1	129647-42500	PUMP ASSY, WATER	1						Z	
(A="2009.04)											
3	2	129647-42150	BRACKET, PUMP	1							
4	2	129579-42502	PUMP ASSY, WATER	1							
6	3	121575-42021	SHAFT, IMPELLER	1							
7	3	124223-42040	KEY	1							
8	3	124223-42070	PIECE	1							
9	3	124223-42080	SEAL, TC13X28X7	1							
10	3	124223-42092	IMPELLER	1							
11	3	124223-42110	GASKET, WATER PUMP	1							
12	3	121575-42120	COVER, BEARING	1							
13	3	121575-42150	COVER	1							
14	3	129579-42160	PLATE	1							
15	3	129579-42190	COVER	1							
16	3	124070-42400	V-PULLEY	1							
17	3	124070-42420	WASHER	2							
18	3	129579-42590	NUT, M8	1							
19	3	22242-000150	RING, 15	1							
20	3	22252-000350	RING, 35	1							
21	3	24107-062024	BEARING, BALL 6202ZZ	2							
22	3	26014-080162	BOLT, M8X 16	2							
23	3	26113-040088	BOLT, M4X 8	6							
24	1	104214-42780	V-BELT, HM30	1							1
25	1	26106-060082	BOLT, M6X 8 PLATED	4							
26	1	129611-49010	PIPE, WATER	1							1
27	1	171487-49010	PIPE, WATER	1							1
28	1	129475-49020	PIPE, WATER	1							1
29	1	129670-49290	COCK ASSY, R1/8	1							1
32	1	129579-49460	RETAINER, D32	2							1
33	1	124460-77680	RETAINER	2							1
34	1	23000-035000	CLAMP, 35	4							1
35	1	23061-070300	PIPE, 7X 300	2							1
36	1	129472-49040	PIPE, WATER	1							
37	1	23000-035000	CLAMP, 35	2							
38	1	26106-080602	BOLT, M8X 60 PLATED	2						W	1
(A="2009.04)											
39	1	26106-080902	BOLT, M8X 90 PLATED	2						W	1
(A="2009.04)											

0CW10-M43000 4TNV84T-BGKM

Fig.13. COOLING FRESH WATER COOLER

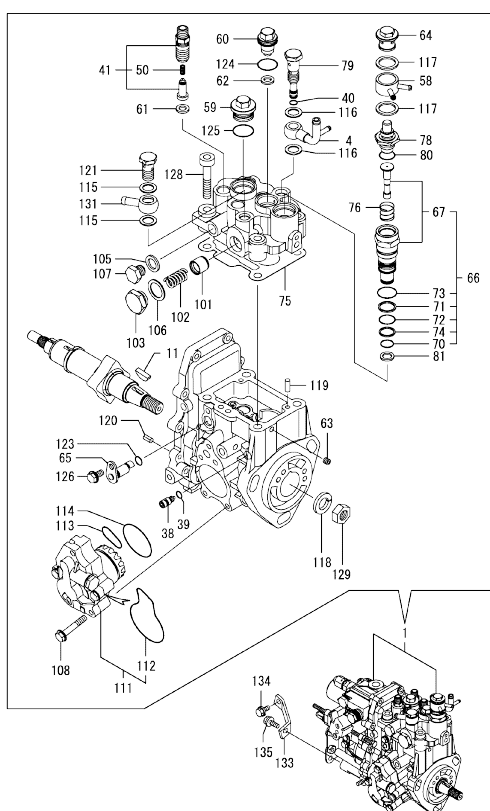


0CW10-M43000 Fig.13

(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129550-13110	GASKET	1							
2	1	128170-13600	STUD, M8X31	4							
3	1	104407-44480	JOINT	1							
4	1	129577-44900	COOLER ASSY, WATER	1							
5	2	171487-44000	CORE ASSY, COOLER	1							
7	3	124160-49480	JOINT, PIPE	2							
8	3	27241-280000	PLUG, 28	4							
9	3	43600-500310	COCK	1							
13	2	129473-44111	CORE ASSY, COOLER	1							
14	2	129470-44440	COVER, A	1							
15	2	129470-44450	COVER, B	1							
16	2	129171-44600	FILLER ASSY	1							
17	2	120445-44640	GASKET	1							
18	2	24321-000750	O-RING, 1AG75.0	2							
19	2	26106-080162	BOLT, M8X 16 PLATED	4							
20	2	26106-080252	BOLT, M8X 25 PLATED	4							
21	1	23061-120300	PIPE, 12X 300	1							
22	1	23080-013000	CLAMP, 13	1							
23	1	26106-081002	BOLT, M8X100 PLATED	6							
24	1	26306-080002	NUT, M8	2							

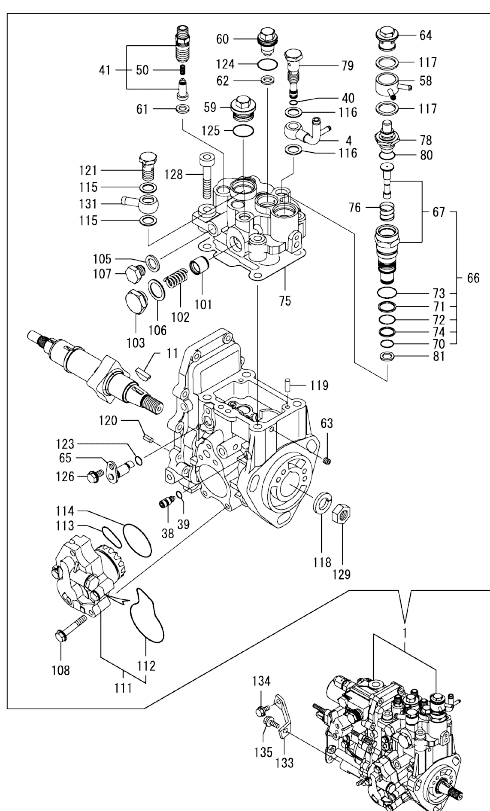


Remarks
(1) GOVERNOR ASSY(FIG.15) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

				0CW10-M43000		Fig.14					
				(A)=4TNV84T-BGKM		(D)=					
				(B)=		(E)=					
				(C)=		(F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729584-51300	PUMP ASSY, INJECTION	1							1
4	2	158552-51670	JOINT, OVER FLOW	1							
11	2	119802-51090	KEY, 4X16	1							
38	2	158600-51270	STOPPER, TAPPET	1							
39	2	158563-51281	O-RING, 4D S6	1							
40	2	158563-51281	O-RING, 4D S6	1							
41	2	129509-51390	VALVE ASSY, DELIVERY	4							
50	3	158563-51330	SPRING, DELIVERY	4							
58	2	158553-51551	JOINT	1							
59	2	158601-51550	PLUG	1							
60	2	119802-51560	PLUG, BARREL	1							
61	2	158552-51571	GASKET	4							
62	2	158552-51571	GASKET	1							
63	2	158557-51570	PLUG	1							
64	2	158601-51570	PLUG	1							
65	2	158552-51580	LIFTER	1							
66	2	119802-51590	TIMER SET	1							
67	3	119802-51600	TIMER ASSY	1							
70	3	158553-51670	O-RING, 1011	1							
71	3	119802-51680	RING, BACK UP	1							
72	3	119802-51690	O-RING	1							
73	3	24356-010200	O-RING, 4D1020	1							
74	3	24372-000150	RING, BACK UP T2P15	1							
75	2	158552-51600	GASKET	1							
76	2	158553-51630	SPRING, TIMER	1							
78	2	158553-51640	ELEMENT	1							
79	2	158601-51650	JOINT, OVER FLOW	1							
80	2	158553-51660	O-RING, P14	1							
81	2	158553-51680	GASKET	1							
101	2	158601-51770	PISTON	1							
102	2	158552-51781	SPRING	1							
103	2	158601-51790	PLUG	1							
105	2	22190-120002	WASHER, SEAL 12	1							
106	2	22190-180002	WASHER, SEAL 18	1							
107	2	23887-120002	PLUG, 12	1							
108	2	158553-51770	BOLT	4							
111	2	158552-52100	PUMP ASSY, FUEL FEED	1							
112	3	158552-52500	O-RING	1							
113	2	158552-52310	O-RING	1							
114	2	158552-52400	O-RING, 4E S42	1							
115	2	22190-120002	WASHER, SEAL 12	2							
116	2	22190-120002	WASHER, SEAL 12	2							
117	2	22190-180002	WASHER, SEAL 18	2							
118	2	22217-140000	WASHER, SPRING 14	1							
119	2	22312-050140	PIN, PARALLEL M5X14	2							
120	2	22351-050010	PIN, SPRING 5.0X10	2							
121	2	23857-060000	BOLT, JOINT 6	1							
123	2	24311-000070	O-RING, 1AP7.0	1							
124	2	24356-010180	O-RING, 4D1018	1							
125	2	24356-010200	O-RING, 4D1020	1							
126	2	26106-060102	BOLT, M6X 10 PLATED	1							

N:Old ^{Yes}/_{No} New, Q:Old ^{No}/_{Yes} New, R:Old ^{Yes}/_{No} New, S:Old ^{No}/_{Yes} New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++ Copyright (C) YANMAR GLOBAL CS CO., LTD. All Rights Reserved.

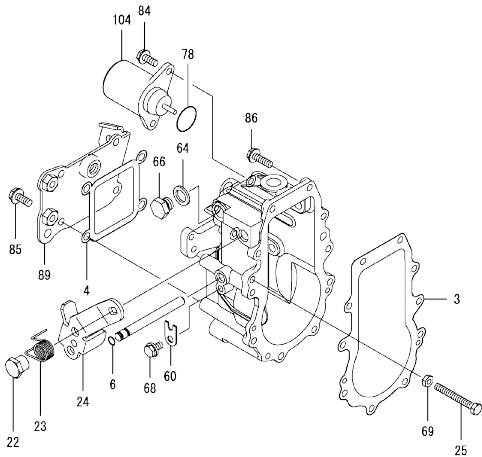
Fig.14. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.15) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1).

[illegible]

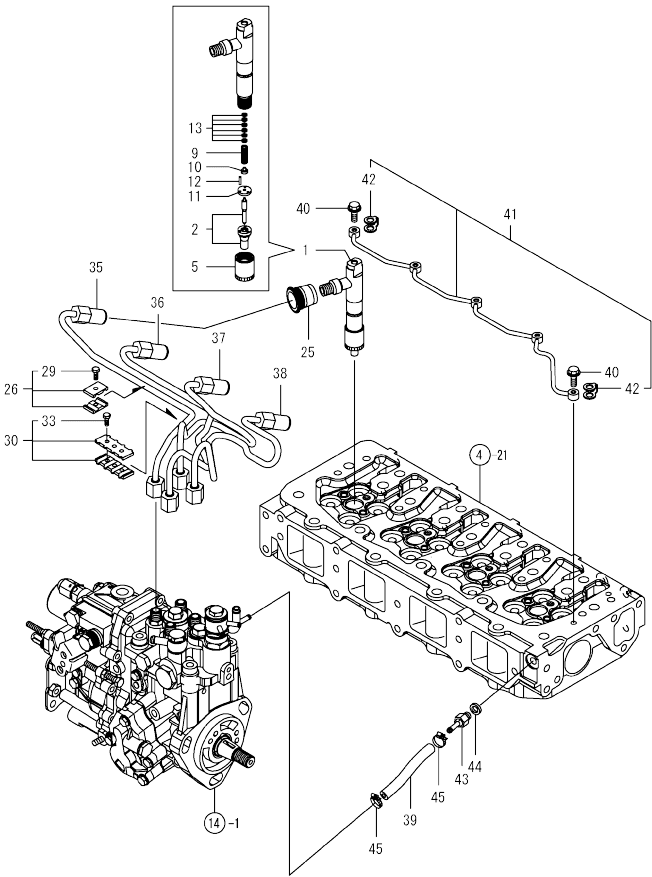
Fig.15. GOVERNOR



Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.14).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
22	2	129255-61410	NUT, LOCK	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	129246-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, IDLE	1							
60	2	119660-61901	RETAINER, SHAFT	1							
64	2	22190-120000	WASHER, SEAL 12	1							
66	2	23887-120002	PLUG, 12	1							
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26756-060002	NUT, LOCK M6	1							
78	2	158552-61900	O-RING	1							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060142	BOLT, M6X 14 PLATED	4							
86	2	26106-060202	BOLT, M6X 20 PLATED	10							
89	2	129246-61061	COVER, GOVERNOR CASE	1							
104	2	119653-77950	SOLENOID, STOP	1							

Fig.16. FUEL INJECTION VALVE

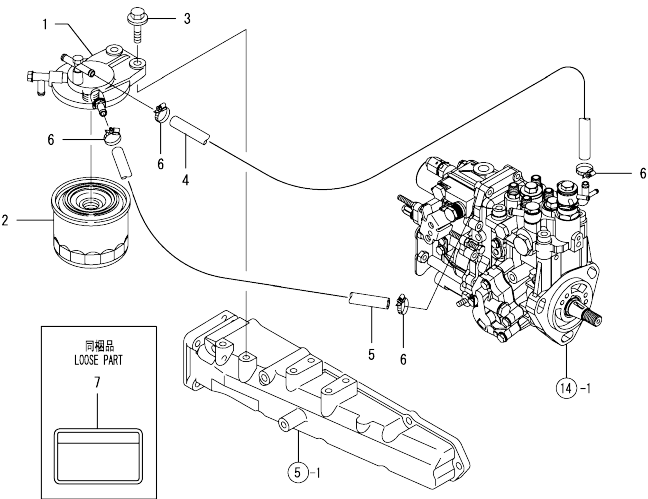


(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729649-53100	VALVE ASSY,INJECTION	4							
2	2	129649-53000	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							
25	1	123907-11601	SEAL	4							
26	1	119305-59120	RETAINER, PIPE	2							
29	2	129150-59131	BOLT, M4X14	2							
30	1	129550-59120	RETAINER, PIPE	1							
33	2	129150-59131	BOLT, M4X14	2							
35	1	129508-59910	PIPE ASSY, INJECTION	1							
36	1	129508-59920	PIPE ASSY, INJECTION	1							
37	1	129508-59930	PIPE ASSY, INJECTION	1							
38	1	129508-59940	PIPE ASSY, INJECTION	1							
39	1	129649-59510	PIPE, FUEL	1							
40	1	123907-59540	BOLT, PIPE JOINT M6	5							
41	1	129508-59550	PIPE ASSY, RETURN	1							
42	2	123907-59550	GASKET	5							
43	1	123907-59560	JOINT	1							
44	1	22190-080002	WASHER, SEAL 6	1							
45	1	23000-013000	CLAMP, 13	2							

Fig.17. FUEL LINE

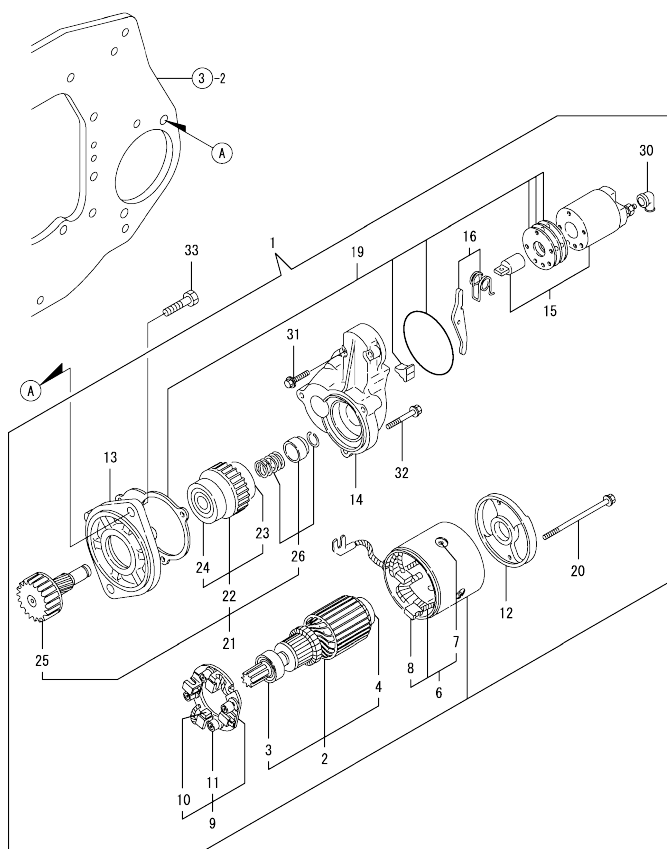


(A)=4TNV84T-BGKM
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	119802-55810	FILTER,FO	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129649-59010	PIPE, FUEL RETURN	1							
5	1	128370-59102	PIPE, FUEL	1							
6	1	23000-016000	CLAMP, 16	4							
7	1	114110-07760	LABEL, FUEL OIL	1							

Fig.18. STARTING MOTOR



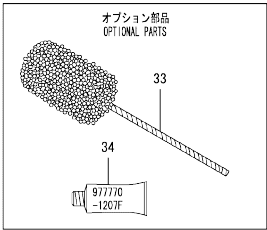
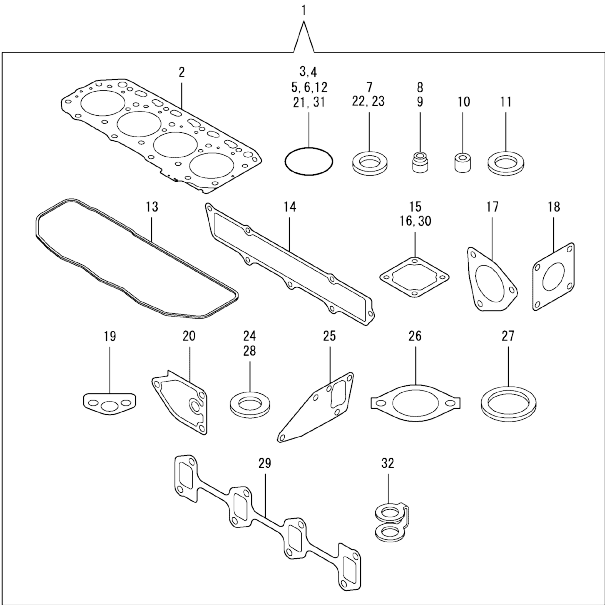
(D)=
(E)=
(F)=

(A)=4TNV84T-BGKM
(B)=
(C)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171008-77010	STARTER, S114-483	1							
2	2	171008-77400	ARMATURE ASSY	1							
3	3	X2114255110	BEARING, BALL	1							
4	3	X2130350900	BALL BEARING	1							
6	2	171008-77440	COIL ASSY, FIELD	1							
7	3	171008-77450	SCREW	4							
8	3	171008-77460	BRUSH (+)	2							
9	2	171008-77470	HOLDER ASSY, BRUSH	1							
10	3	171008-77480	BRUSH (-)	2							
11	3	171008-77490	SPRING, BRUSH	4							
12	2	171008-77500	COVER, REAR	1							
13	2	171008-77510	HOUSING ASSY, GEAR	1							
14	2	171008-77520	HOUSING, CENTER	1							
15	2	171008-77531	SWITCH ASSY,MAGNETIC	1							
16	2	171008-77540	LEVER SET, SHIFT	1							
19	2	171008-77571	DUST COVER,(NON-ASB.	1							
20	2	171008-77640	BOLT, THROUGH	2							
21	2	171008-77650	PINION ASSY	1							
22	3	X2114555500	CLUTCH ASSY	1							
23	4	X2114955020	BALL BEARING	1							
24	4	X2240410100	BEARING, BALL	1							
25	3	171008-77660	SHAFT, PINION	1							
26	3	171008-77670	STOPPER SET, PINION	1							
30	2	171008-77750	COVER, M TERMINAL	1							
31	2	26106-060322	BOLT, M6X 32 PLATED	2							
32	2	26106-060402	BOLT, M6X 40 PLATED	3							
33	1	26116-120252	BOLT, M12X 25 PLATED	2							

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



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729508-92840	GASKET SET	1							1
2	2	129508-01330	GASKET, HEAD	1							
3	2	119609-32040	O-RING, P16	4							
4	2	121850-51960	O-RING	1							
5	2	24311-000320	O-RING, 1AP32.0	2							
6	2	24341-000240	O-RING, 1AS24.0	1							
7	2	22190-220002	WASHER, SEAL 22	1							
8	2	119717-11340	SEAL, VALVE STEM	8							
9	2	119717-11350	SEAL, VALVE STEM	8							
10	2	119802-11870	PROTECTOR, NOZZLE	4							
11	2	119625-11880	SEAT, NOZZLE	4							
12	2	24311-000120	O-RING, 1AP12.0	7							
13	2	129508-11310	GASKET, BONNET	1							
14	2	129508-12110	GASKET, MANIFOLD	1							
15	2	129100-77510	GASKET, AIR HEATER	1							
16	2	129150-77511	GASKET	1							
17	2	129472-13520	GASKET	1							
18	2	129792-18091	GASKET	1							
19	2	129150-35042	GASKET	1							
20	2	129150-35111	GASKET	1							
21	2	24316-000160	O-RING, 4DP16.0	1							
22	2	22190-080002	WASHER, SEAL 6	3							
23	2	22190-100002	WASHER, SEAL 10	2							
24	2	23414-080000	GASKET, 8X1.0	3							
25	2	129486-42050	GASKET, WATER PUMP	1							
26	2	129795-49551	GASKET	1							
27	2	129470-49810	GASKET, THERMOSTAT	1							
28	2	124465-44950	GASKET, 16	1							
29	2	129550-13110	GASKET	1							
30	2	120445-44640	GASKET	1							
31	2	24321-000750	O-RING, 1AG75.0	2							
32	2	123907-59550	GASKET	5							
33	1	129400-92420	FLEX HORN	1							1
34	1	977770-1207F	GASKET, LIQUID	1							1

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104407-21600	12	1
104407-44480	7	7
	13	3
105010-39140	10	8
114110-07760	17	7
114250-39450	10	1
114250-53080	16	5
114250-53120	16	9
114250-53130	16	10
114250-53140	16	11
114250-53210	16	12
114250-53400	16	13
119305-59120	16	26
119609-32040	2	11
	19	3
119620-49290	9	1
119625-11880	4	43
	19	11
119640-01640	3	6
119640-61400	4	64
119653-77950	15	104
119660-61901	15	60
119717-11190	4	33
119717-11340	4	34
	19	8
119717-11350	4	35
	19	9
119717-11800	4	41
119802-01520	2	6
119802-01561	2	7
119802-03070	4	53
119802-11870	4	42
	19	10
119802-21202	8	4
119802-25051	6	9
119802-25071	6	13
119802-25101	6	10
119802-25901	6	16
119802-32070	2	13
119802-32100	2	12
119802-32130	2	19
119802-35110	9	17
119802-51090	14	11
119802-51560	14	60
119802-51590	14	66
119802-51600	14	67
119802-51680	14	71
119802-51690	14	72
119802-55810	17	2

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119802-77340	11	59
119807-61420	15	23
119940-59130	9	29
119940-77270	11	58
120445-44640	13	17
	19	30
121023-01551	2	27
121111-21501	8	8
121450-42450	11	55
121520-34810	9	6
121550-23200	8	26
121575-42021	12	6
121575-42120	12	12
121575-42150	12	13
121850-21680	8	14
121850-51960	2	20
	19	4
123907-03100	4	56
123907-03110	4	57
123907-03120	4	58
123907-03140	4	59
123907-11550	4	20
123907-11601	16	25
123907-11830	4	39
123907-59540	16	40
123907-59550	16	42
	19	32
123907-59560	16	43
124060-01050	1	11
124070-42400	12	16
124070-42420	12	17
124160-01751	2	8
	4	50
124160-01910	1	12
		13
124160-11360	4	68
124160-39140	10	9
124160-49480	13	7
124223-42040	12	7
124223-42070	12	8
124223-42080	12	9
124223-42092	12	10
124223-42110	12	11
124240-01871	2	9
124460-77680	12	33
124465-44950	11	56
	19	28
124550-21600	8	11
124722-59050	11	50
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124770-12540	5	8
127610-91350	11	57
128170-13600	7	4
	13	2
128270-13620	10	2
128370-59102	17	5
129001-01250	1	4
129001-02931	1	29
129001-11340	4	62
129001-32330	2	16
129001-91841	2	21
129004-22500	8	17
129004-22950	8	34
129004-55612	17	1
129005-34802	9	5
129005-59830	10	11
129006-35100	9	16
129006-44480	9	21
129009-11340	4	63
129054-42320	11	10
129100-01580	3	1
		13
	8	2
129100-01640	3	14
129100-23910	8	29
129100-77510	5	21
	19	15
129150-01200	1	27
129150-02020	1	6
129150-02450	6	4
129150-02871	1	32
129150-02931	1	24
129150-02941	1	35
129150-03070	4	54
129150-11230	4	11
		15
129150-11750	4	13
		17
		38
129150-14101	6	6
129150-14200	6	1
129150-14400	6	2
129150-23601	8	27
129150-23611	8	30
129150-25301	6	15
129150-35042	9	7
	19	19
129150-35091	9	8
129150-35111	9	19
	19	20

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129150-35170	9	20
129150-42059	11	2
129150-42301	11	8
129150-59131	16	29
		33
129150-77511	5	22
	19	16
129155-51280	15	6
129155-61460	15	25
129156-44760	11	18
129171-44600	13	16
129176-01601	3	2
129202-22300	8	21
129246-61061	15	89
129246-61441	15	24
129247-42000	11	1
129255-61410	15	22
129263-42120	11	4
129263-49610	11	48
129263-49620	11	51
129301-03660	4	73
129400-01730	3	9
129400-92420	19	33
129403-39610	10	3
129410-03990	4	74
129410-77330	11	54
129417-33110	9	15
129417-35150	9	18
129418-32320	2	15
129457-49801	11	44
129466-49300	9	31
129470-07230	4	1
129470-44440	13	14
129470-44450	13	15
129470-49200	11	27
129470-49220	11	28
129470-49240	11	29
129470-49250	11	30
129470-49260	11	31
129470-49540	11	42
129470-49810	11	45
	19	27
129472-13520	7	1
	19	17
129472-49040	12	36
129473-44111	13	13
129473-49310	11	35
129475-49020	12	28
129477-12500	5	5
129477-12530	5	7

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129486-42050	11	17
	19	25
129489-21570	8	9
129508-01330	1	28
	19	2
129508-03010	4	52
129508-11100	4	29
129508-11110	4	30
129508-11130	4	31
129508-11180	4	32
129508-11241	4	4
129508-11250	4	5
129508-11260	4	7
129508-11270	4	8
129508-11280	4	9
129508-11310	4	61
	19	13
129508-11650	4	10
129508-11660	4	14
129508-11820	4	40
129508-11900	4	44
129508-11920	4	18
129508-12100	5	1
129508-12110	5	2
	19	14
129508-14580	6	3
129508-21002	8	1
129508-22080	8	15
129508-22900	8	32
129508-32111	2	17
129508-32120	2	18
129508-33010	9	13
129508-33050	9	14
129508-49030	9	22
129508-49040	9	26
129508-59550	16	41
129508-59910	16	35
129508-59920	16	36
129508-59930	16	37
129508-59940	16	38
129509-11700	4	21
129509-51390	14	41
129550-13110	13	1
	19	29
129550-42350	11	26
129550-59120	16	30
129553-39650	10	25
129577-39611	10	4
129577-44900	13	4

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129579-21651	8	12
129579-42160	12	14
129579-42190	12	15
129579-42502	12	4
129579-42590	12	18
129579-49320	11	36
129579-49460	12	32
129579-77500	5	20
129584-03010	4	71
129584-11350	4	51
129601-51250	14	133
129611-18040	7	5
129611-49010	12	26
129647-42150	12	3
129647-42500	12	2
129649-12210	5	17
129649-12811	5	11
129649-12821	5	12
129649-12832	5	13
129649-12851	5	10
129649-39450	10	10
129649-53000	16	2
129649-59010	17	4
129649-59510	16	39
129670-49290	7	8
	11	32
	12	29
129672-11510	4	36
129693-49500	11	37
129792-18091	7	6
	19	18
129792-39410	10	19
129795-01780	3	16
129795-01800	2	5
129795-01900	2	30
129795-01950	2	10
129795-02412	1	9
129795-21661	8	13
129795-49551	11	43
	19	26
129900-07900	4	2
129900-32130	2	14
129907-03070	4	55
129907-11950	4	45
129916-49740	11	12
129916-59020	14	131
158552-51151	6	17
158552-51571	14	61
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158552-51580	14	65
158552-51600	14	75
158552-51670	14	4
158552-51781	14	102
158552-52100	14	111
158552-52310	14	113
158552-52400	14	114
158552-52500	14	112
158552-61900	15	78
158553-51551	14	58
158553-51630	14	76
158553-51640	14	78
158553-51660	14	80
158553-51670	14	70
158553-51680	14	81
158553-51770	14	108
158553-61050	15	3
158553-61070	15	4
158557-51570	14	63
158563-51281	14	39
		40
158563-51330	14	50
158600-51270	14	38
158601-51550	14	59
158601-51570	14	64
158601-51650	14	79
158601-51770	14	101
158601-51790	14	103
171007-49400	7	11
171008-03990	9	23
		27
171008-77010	18	1
171008-77400	18	2
171008-77440	18	6
171008-77450	18	7
171008-77460	18	8
171008-77470	18	9
171008-77480	18	10
171008-77490	18	11
171008-77500	18	12
171008-77510	18	13
171008-77520	18	14
171008-77531	18	15
171008-77540	18	16
171008-77571	18	19
171008-77640	18	20
171008-77650	18	21
171008-77660	18	25
171008-77670	18	26
171008-77750	18	30

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171051-01921	1	5
171487-44000	13	5
171487-49010	12	27
194440-51620	11	38
22190-080002	10	12
		14
		16
		19
		22
22190-100002	10	15
		19
22190-120000	15	64
22190-120002	14	105
		115
		116
22190-180002	14	106
		117
22190-220002	3	8
	19	7
22217-080000	11	19
22217-140000	6	18
		14
		118
22242-000150	12	19
22252-000260	8	22
22252-000350	12	20
22312-050140	14	119
22351-030010	8	7
	10	26
22351-050010	14	120
22351-060012	4	46
22512-070140	6	7
	8	5
22857-500100	4	65
		66
		67
23000-013000	11	39
	16	45
23000-016000	17	6
23000-022000	10	5
23000-025000	11	40
23000-035000	12	34
		37
23000-041000	11	41
23000-048000	5	9
		15
23000-054000	5	14
23000-060000	5	16
23061-070300	12	35
23061-120300	13	21
23080-013000	13	22
23080-015000	9	25

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23080-015000	9	30	26106-080162	3	10	43600-500310	13	9			
23414-080000	10	16		4	3	729402-23100	8	23			
	11	20		13	19	729508-01500	2	1			
	19	24		14	134	729508-01560	1	1			
23857-030000	10	13	26106-080202	5	3	729508-92840	19	1			
23857-060000	14	121		9	32	729577-01720	3	5			
23876-010000	5	19		14	135	729584-51300	14	1			
23876-020000	4	27	26106-080252	3	11	729649-53100	16	1			
23876-030000	2	3		4	48	977770-1207F	19	34			
23876-040000	2	4		11	46	X2114255110	18	3			
23887-120002	14	107		13	20	X2114555500	18	22			
	15	66	26106-080302	17	3	X2114955020	18	23			
24107-062024	12	21	26106-080352	3	18	X2130350900	18	4			
24311-000070	14	123		9	12	X2240410100	18	24			
24311-000120	4	47		11	47						
		69	26106-080402	5	23						
	19	12		6	14						
24311-000320	2	22	26106-080452	3	12						
	4	70			12 -1						
	19	5	26106-080502	3	19						
24316-000160	10	6		4	49						
	19	21	26106-080552	2	25						
24321-000750	13	18		11	23						
	19	31			24						
24341-000240	2	28	26106-080602	12	38						
	19	6	26106-080652	11	25						
24356-010180	14	124	26106-080802	5	4						
24356-010200	14	73			24						
		125	26106-080902	12	39						
24358-240310	11	13	26106-081002	13	23						
24372-000150	14	74	26113-040088	12	23						
25132-004400	11	60	26116-060162	11	15						
26014-080162	12	22	26116-120252	18	33						
26106-060082	12	25	26206-100202	3	3						
26106-060102	11	21	26206-100252	3	4						
	14	126	26226-080352	4	19						
	15	68	26306-080002	2	26						
26106-060142	15	84		13	24						
		85	26366-060002	10	18						
26106-060162	2	29	26450-080452	14	128						
	10	7	26577-060162	11	16						
26106-060202	11	14	26703-080002	7	3						
	15	86			12						
26106-060322	18	31	26756-060002	15	69						
26106-060402	18	32	26776-140002	6	19						
26106-080122	10	17		14	129						
	11	22	27241-120000	1	14						
26106-080142	6	8	27241-280000	13	8						
26106-080162	2	23	27241-300000	1	10						
		24	27241-400000	4	28						