

0CW10-M85200EN

P R E F A C E

1. This parts catalog is the 1st edition of 4TNV94L-BVLY for LIUGONG.

Pub. No. : 0CW10-G85200

Published : July, 2013

2. Model name

Engine model	Vehicle	Vehicle made by
4TNV94L-BVLY	MINI EXCAVATOR	LIUGONG

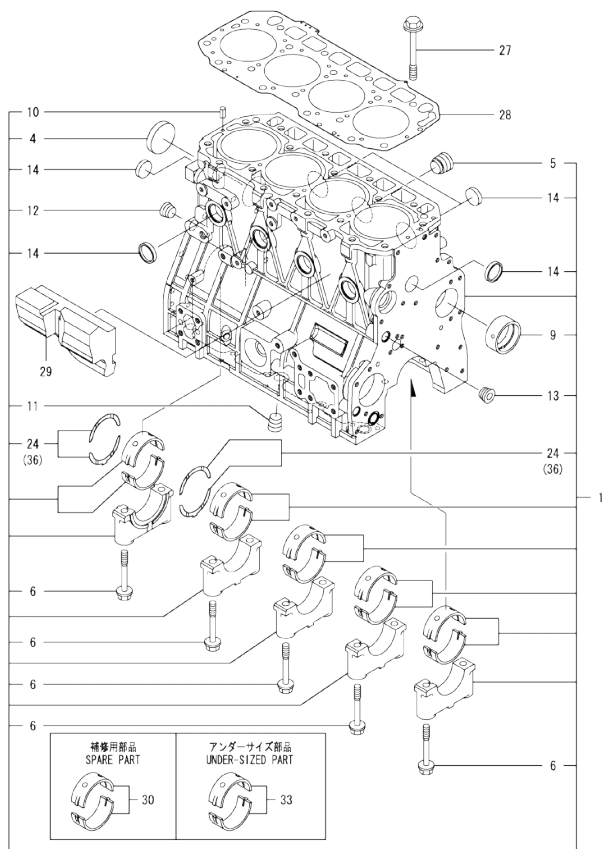
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0CW10-M85200

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Fig.1. CYLINDER BLOCK



Remarks
(1)Spare part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

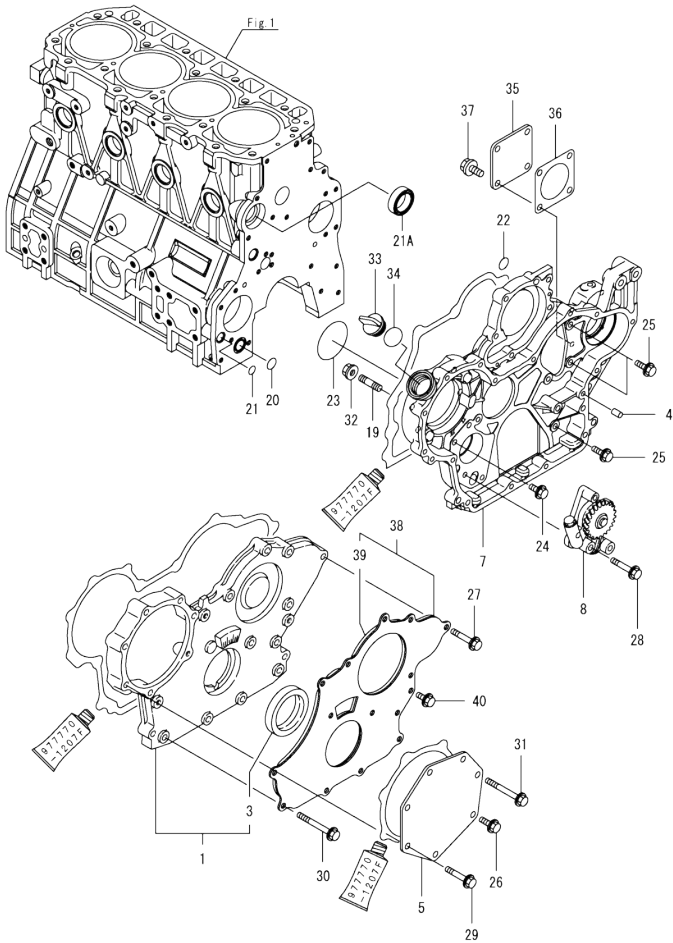
0CW10-M85200 Fig.1

(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729906-01561	BLOCK ASSY, CYLINDER	1							
4	2	129900-01250	PLUG, DISH TYPE 55	1							
5	2	171051-01921	PLUG, NPTF1	1							
6	2	129900-02020	BOLT, METAL CAP	10							
9	2	129900-02410	BUSH, CAMSHAFT	1							
10	2	22351-060012	PIN, SPRING 6.0X12	2							
11	2	23876-030000	PLUG, R03	1							
12	2	23876-030000	PLUG, R03	1							
13	2	23876-030000	PLUG, R03	1							
14	2	27241-300000	PLUG 30	8							
24	2	129900-02931	BEARING ASSY, THRUST	2							
27	1	129900-01200	BOLT, CYLINDER HEAD	18							
28	1	129906-01350	GASKET, HEAD	1							
29	1	129907-01190	SPACER	1							
30	1	729900-02801	BEARING, MAIN	5							1
33	1	129900-02341	BEARING ASSY, MAIN	5							2
36	1	129900-02941	BEARING, THRUST 0.25	2							3

Fig.2. GEAR HOUSING

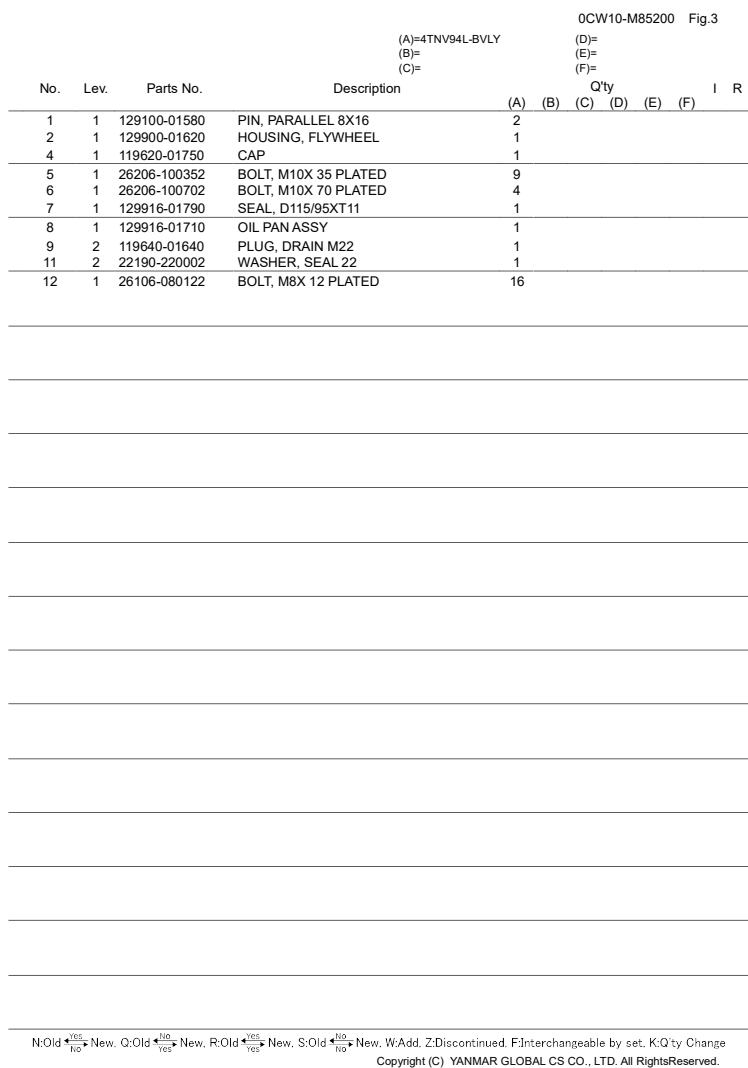


(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729907-01559	COVER ASSY,GEAR CASE	1							
3	2	129916-01800	SEAL, OIL	1							
4	1	129100-01580	PIN, PARALLEL 8X16	4							
5	1	129951-01740	COVER	1							
7	1	129907-01500	CASE, GEAR	1							
8	1	129900-32001	PUMP ASSY, OIL	1							
19	1	26216-100302	STUD, M10X 30	4							
20	1	129900-32030	O-RING, P20	1							
21	1	129900-32040	O-RING, P14	1							
21A	1	129927-42140	GASKET, PUMP OUTLET	1						W	
(A=EH0103)											
22	1	24311-000070	O-RING, 1AP7.0	1							
23	1	24351-030750	O-RING, 1A3075	1							
24	1	26106-080162	BOLT, M8X 16 PLATED	1							
25	1	26106-080202	BOLT, M8X 20 PLATED	3							
26	1	26106-080202	BOLT, M8X 20 PLATED	1							
27	1	26106-080402	BOLT, M8X 40 PLATED	5							
28	1	26106-080452	BOLT, M8X 45 PLATED	3							
29	1	26106-080452	BOLT, M8X 45 PLATED	5							
30	1	26106-080702	BOLT, M8X 70 PLATED	6							
31	1	26106-080752	BOLT, M8X 75 PLATED	1							
32	1	26306-100002	NUT, M10	4							
33	1	124160-01751	CAP, FILLER	1							
34	1	24311-000320	O-RING, 1AP32.0	1							
35	1	124240-01871	COVER, PUMP	1							
36	1	129C26-01890	GASKET, HO-P	1							
37	1	26106-080162	BOLT, M8X 16 PLATED	4							
38	1	129900-01850	COVER ASSY,GEAR CASE	1							
39	2	129900-01870	SPONGE, GEAR CASE	1							
40	1	26106-080162	BOLT, M8X 16 PLATED	3							

Fig.3. FLYWHEEL HOUSING & OIL SUMP

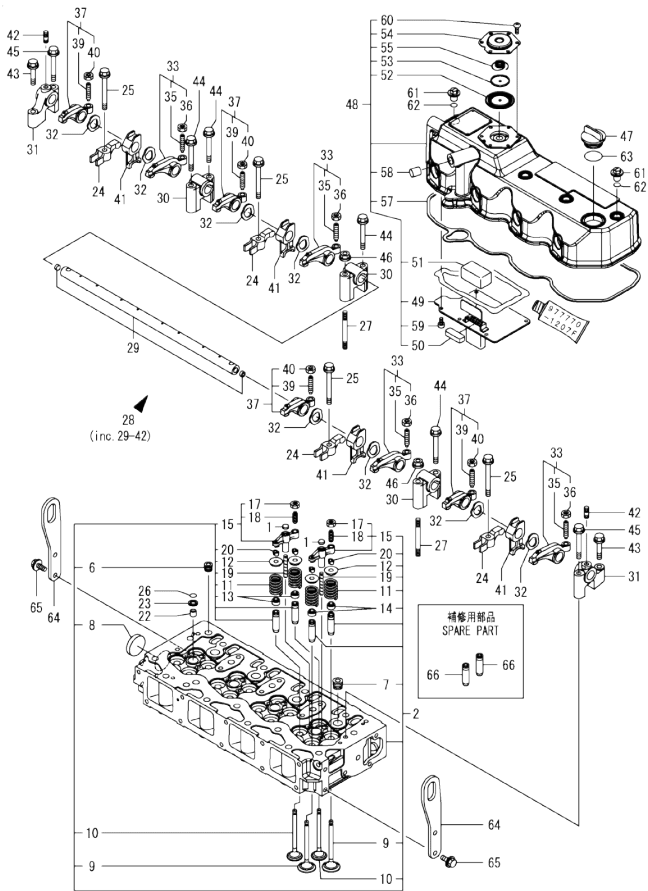


N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare part.

0CW10-M85200 Fig.4

(A)=4TNV94L-BVLY
(B)=
(C)=

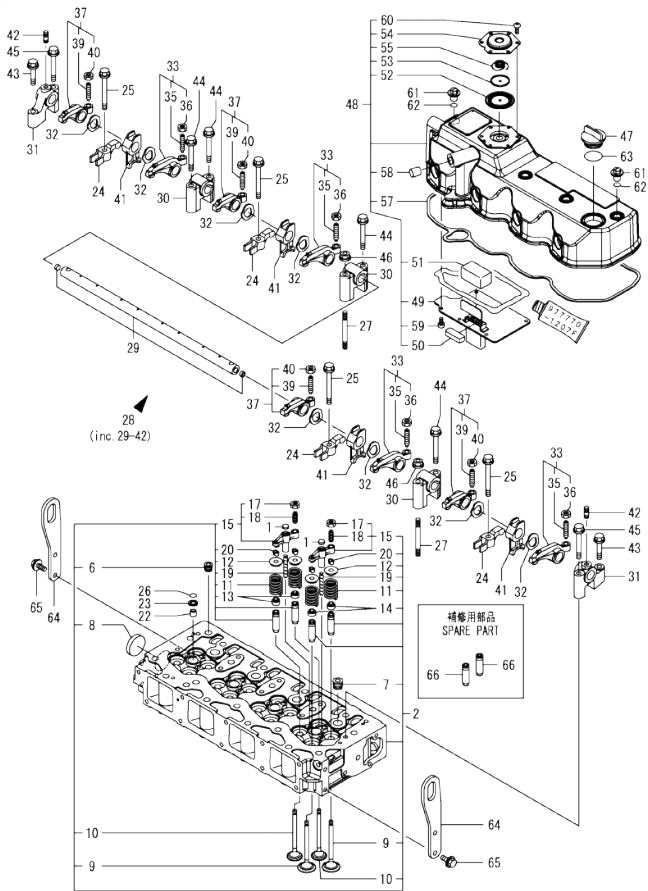
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123907-11550	SEAT, VALVE BRIDGE	8							
2	1	129907-11700	HEAD ASSY, CYLINDER	1							
6	2	23876-020000	PLUG, R02	1							
7	2	23876-030000	PLUG, R03	4							
8	2	27241-400000	PLUG, 40	1							
9	2	129907-11100	VALVE, SUCTION	8							
10	2	129907-11110	VALVE, EXHAUST	8							
11	2	129907-11120	SPRING, VALVE	16							
12	2	119620-11180	RETAINER, SPRING	16							
13	2	119803-11340	SEAL, VALVE STEM	8							
14	2	124160-11340	SEAL, VALVE STEM	8							
15	2	129907-11510	BRIDGE ASSY, VALVE	8							
17	3	129150-11750	NUT, M8	8							
18	3	123907-11830	ADJUSTER	8							
19	2	123907-11820	GUIDE, BRIDGE	8							
20	2	27310-070001	COTTER, 7	16							
22	1	119802-11870	PROTECTOR, NOZZLE	4							
23	1	119625-11880	SEAT, NOZZLE	4							
24	1	129907-11910	RETAINER, NOZZLE	4							
25	1	129907-11950	BOLT, M8X75	4							
26	1	24311-000120	O-RING, 1AP12.0	4							
27	1	119593-11301	BOLT, STUD M8X80	2							
28	1	129907-11341	SHAFT ASSY, ROCKER	1							
29	2	129907-11250	SHAFT, ROCKER ARM	1							
30	2	129907-11260	SUPPORT, ROCKER ARM	2							
31	2	129907-11270	SUPPORT, ROCKER ARM	3							
32	2	123907-11280	WASHER	8							
33	2	129907-11650	ARM ASSY, ROCKER	4							
35	3	129150-11230	SCREW, VALVE ADJUST	4							
36	3	129150-11750	NUT, M8	4							
37	2	129907-11660	ARM ASSY, ROCKER	4							
39	3	129150-11230	SCREW, VALVE ADJUST	4							
40	3	129150-11750	NUT, M8	4							
41	2	129907-11920	RETAINER, NOZZLE	4							
42	2	26226-080222	STUD, M8X 22	2							
43	1	26106-080402	BOLT, M8X 40 PLATED	2							
44	1	26106-080602	BOLT, M8X 60 PLATED	4							
45	1	26106-080602	BOLT, M8X 60 PLATED	2							
46	1	26306-080002	NUT, M8	2							
47	1	124160-01751	CAP, FILLER	1							
48	1	129907-11321	BONNET ASSY, HEAD	1							
49	2	129907-03011	PLATE, BAFFLE	1							
50	2	129907-03061	BAFFLE, BREATHER	1							
51	2	129907-03070	BAFFLE, BREATHER	1							
52	2	123907-03100	DIAPHRAGM	1							
53	2	123907-03110	PLATE	1							
54	2	123907-03120	PLATE, BREATHER	1							
55	2	123907-03140	SPRING, DIAPHRAGM	1							
57	2	129933-11310	GASKET, BONNET	1							
58	2	119640-61400	PLUG	1							
59	2	22857-500100	SCREW, 5X10	6							

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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0CW10-M85200 4TNV94L-BVLY

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare part.

0CW10-M85200 Fig.4

(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
60	2	22857-500100	SCREW, 5X10	6							
61	1	124160-11360	KNOB	4							
62	1	24311-000120	O-RING, 1AP12.0	4							
63	1	24311-000320	O-RING, 1AP32.0	1							
64	1	129907-07900	LIFTER, ENGINE	2							
65	1	26106-080162	BOLT, M8X 16 PLATED	4							
66	1	129907-11800	GUIDE, VALVE	16							1

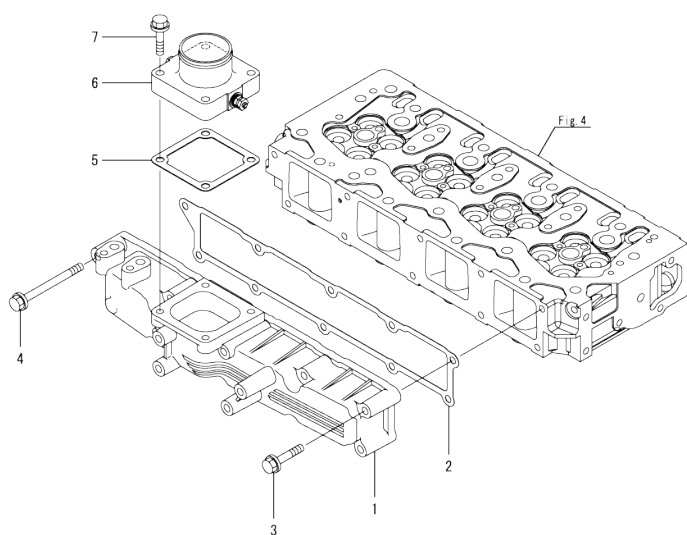
N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD

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

(A)=4TNV94L-BVLY
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129907-12100	MANIFOLD, AIR INTAKE	1							
2	1	129907-12110	GASKET, MANIFOLD	1							
3	1	26106-080552	BOLT, M8X 55 PLATED	9							
4	1	26106-080852	BOLT, M8X 85 PLATED	1							
5	1	121850-77021	GASKET, AIR HEATER	1							
6	1	129915-77051	HEATER, AIR 12V	1							
7	1	26106-080352	BOLT, M8X 35 PLATED	4							



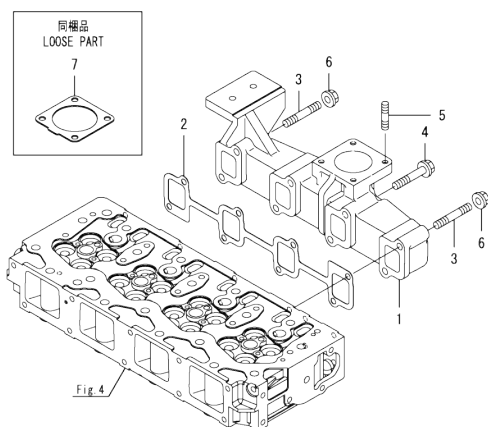
N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.6. EXHAUST MANIFOLD

(D)=
(E)=

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

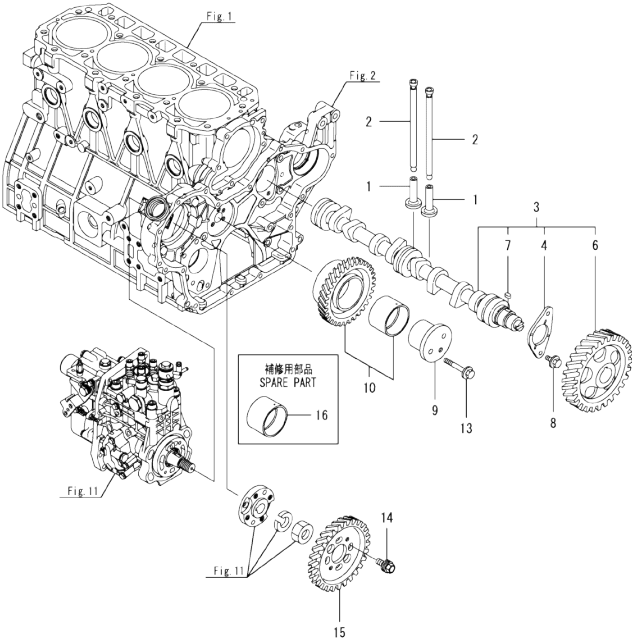
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129907-13201	MANIFOLD, EXHAUST	1							
2	1	129900-13251	GASKET, EXH.MANIFOLD	1							
3	1	123900-13610	BOLT, STUD M8X80	2							
4	1	123900-13630	BOLT, M8X80	6							
5	1	119131-18320	BOLT, STUD M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	129930-13201	GASKET, SILENCER	1							



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

0CW10-M85200 4TNV94L-BVLY

Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare part.

0CW10-M85200 Fig.7

(A)=4TNV94L-BVLY
(B)=
(C)=

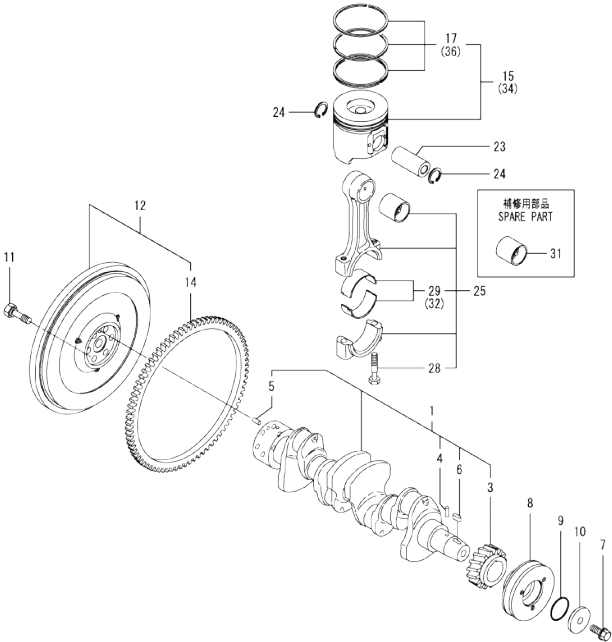
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8							
2	1	129907-14400	PUSH-ROD	8							
3	1	129908-14581	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129900-14100	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080162	BOLT, M8X 16 PLATED	2							
9	1	123900-25060	SHAFT, IDLE GEAR	1							
10	1	129900-25100	GEAR ASSY, IDLE	1							
13	1	26106-080552	BOLT, M8X 55 PLATED	3							
14	1	129953-25300	BOLT	4							
15	1	129907-25900	GEAR, PUMP	1							
16	1	129150-25920	BUSH, IDLE GEAR	1							1

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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0CW10-M85200 4TNV94L-BVLY

Fig.8. CRANKSHAFT & PISTON



Remarks
(1)Spare part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

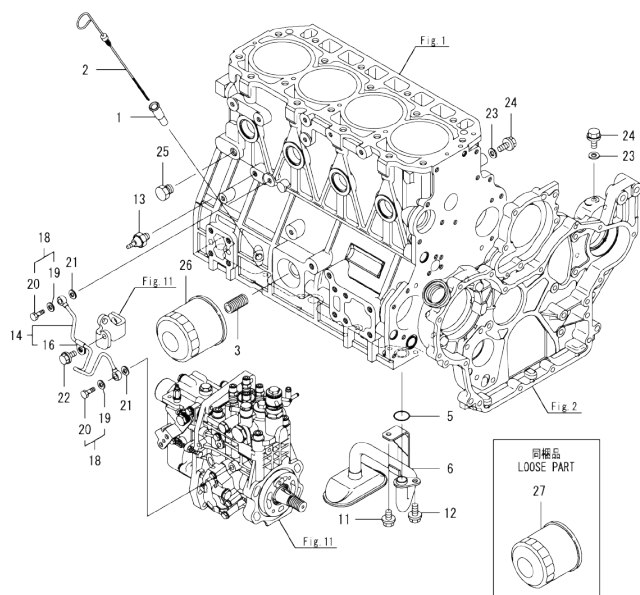
0CW10-M85200 Fig.8

(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129902-21000	CRANKSHAFT ASSY	1							
3	2	129900-21200	GEAR, CRANKSHAFT	1							
4	2	121850-21290	PIN	1							
5	2	121850-21920	PIN, PARALLEL 10X22	1							
6	2	22512-070140	KEY, 7X 14	1							
7	1	129916-21610	BOLT	1							
8	1	129907-21650	V-PULLEY, CRANK 130	1							
9	1	129960-21930	GASKET, WASHER	1							
10	1	129960-21940	WASHER, V-PULLEY	1							
11	1	121850-21130	BOLT, FLYWHEEL	6							
12	1	129916-21590	FLYWHEEL ASSY	1							
14	2	129900-21600	GEAR, RING	1							
15	1	129906-22090	PISTON ASSY	4							
17	2	129906-22050	RING SET, PISTON	4							
23	1	120130-22301	PIN, PISTON	4							
24	1	22252-000300	RING, 30	8							
25	1	129900-23001	ROD ASSY, CONNECTING	4							
28	2	129900-23200	BOLT, CONNECTING ROD	8							
29	2	129900-23601	BEARING, CRANK PIN	4							
31	1	129900-23911	BEARING, PISTON PIN	4							1
32	1	129900-23611	BEARING ASSY, 0.25US	4							2
34	1	129906-22910	PISTON ASSY, 0.25 OS	4							3
36	2	129916-22950	RING SET, 0.25 OS	4							3

Fig.9. LUB. OIL SYSTEM



Remarks
(1) Spare part.

0CW10-M85200 Fig.9

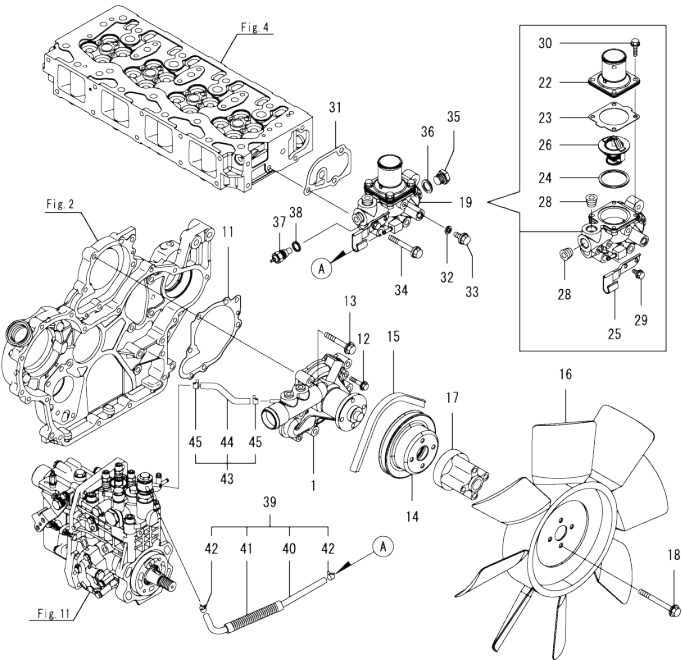
(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	121520-34810	GUIDE, DIPSTICK	1							
2	1	129906-34851	DIPSTICK	1							
3	1	119000-35140	BOLT, STUD FILTER	1							
5	1	129900-32030	O-RING, P20	1							
6	1	129953-35000	PIPE ASSY, OIL INLET	1							
11	1	26106-080122	BOLT, M8X 12 PLATED	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	1							
13	1	114250-39450	SWITCH, HYDRAULIC	1							
14	1	129907-39061	PIPE ASSY, OIL	1							
16	2	123907-39500	RETAINER, PIPE	1							
18	1	129005-59830	BOLT ASSY, JOINT M8	2							
19	2	22190-080002	WASHER, SEAL 6	2							
20	2	23857-030000	BOLT, JOINT 3	2							
21	1	22190-080002	WASHER, SEAL 6	2							
22	1	26106-080122	BOLT, M8X 12 PLATED	1							
23	1	22190-080002	WASHER, SEAL 6	2							
24	1	26106-080122	BOLT, M8X 12 PLATED	2							
25	1	171056-49120	PLUG, DRAIN R1/4	1							
26	1	119005-35151	FILTER, D80X100	1							1
27	1	119005-35151	FILTER, D80X100	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.10. COOLING WATER SYSTEM

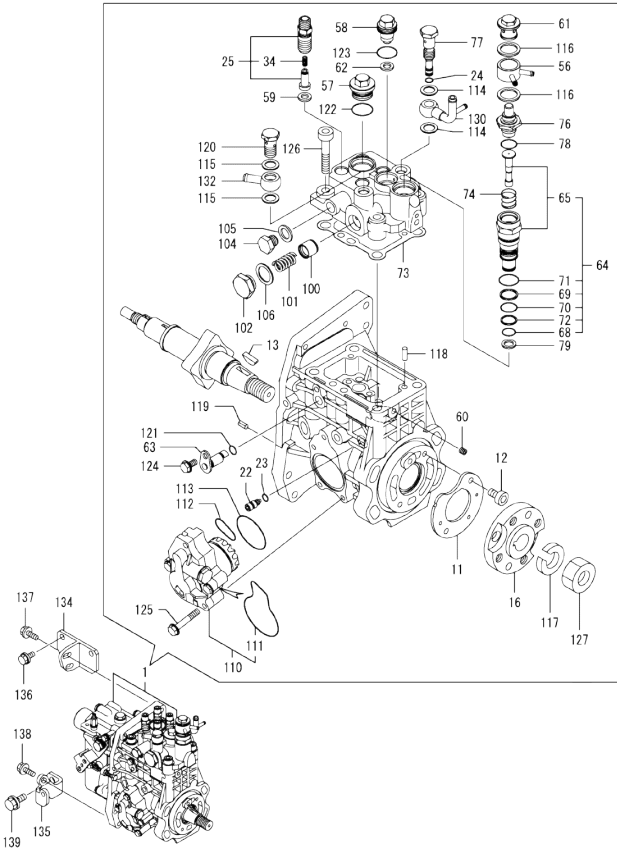


(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129907-42001	PUMP ASSY, WATER	1							
11	1	129900-42020	GASKET, WATER PUMP	1							
12	1	26106-060302	BOLT, M6X 30 PLATED	2							
13	1	26106-080552	BOLT, M8X 55 PLATED	5							
14	1	129900-42462	V-PULLEY, PUMP	1							
14-1	1	129900-42450	V-PULLEY, PUMP	1							N
(A=EH0103)											
15	1	25152-004100	V-BELT, A41	1							
15-1	1	25152-004200	V-BELT, A42	1							N
(A=EH0103)											
16	1	129953-44710	FAN, COOLING D=460	1							
17	1	119117-44760	SPACER, FAN	1							
18	1	26106-080802	BOLT, M8X 80 PLATED	4							
19	1	129907-49800	CASE ASSY,THERMOSTAT	1							
22	2	129916-49530	COVER, THERMOSTAT	1							
23	2	121850-49540	GASKET, THERMOSTAT	1							
24	2	121850-49550	GASKET, THERMOSTAT	1							
25	2	129907-49730	RETAINER, PIPE	1							
26	2	121850-49811	THERMOSTAT, 71C	1							
28	2	23875-030000	PLUG, R03	2							
29	2	26106-060122	BOLT, M6X 12 PLATED	1							
30	2	26106-060202	BOLT, M6X 20 PLATED	4							
31	1	129900-49870	GASKET, THERMOSTAT	1							
32	1	23414-080000	GASKET, 8X1.0	1							
33	1	26106-080122	BOLT, M8X 12 PLATED	1							
34	1	26106-080602	BOLT, M8X 60 PLATED	3							
35	1	121450-42450	PLUG, M16	1							
36	1	124465-44950	GASKET, 16	1							
37	1	124250-49351	SENSOR, WATER TEMP.	1							
38	1	129150-49360	GASKET	1							
39	1	129907-49610	HOSE ASSY, WATER	1							
40	2	129907-49710	HOSE, WATER	1							
41	2	129907-49750	TUBE, CORRUGATED	1							
42	2	124722-59050	CLAMP, HOSE 9	2							
43	1	129907-49620	HOSE ASSY, WATER	1							
44	2	129907-49720	HOSE, WATER	1							
45	2	124722-59050	CLAMP, HOSE 9	2							

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12)is incorporated in this Fuel Injection Pump (Ref.1).

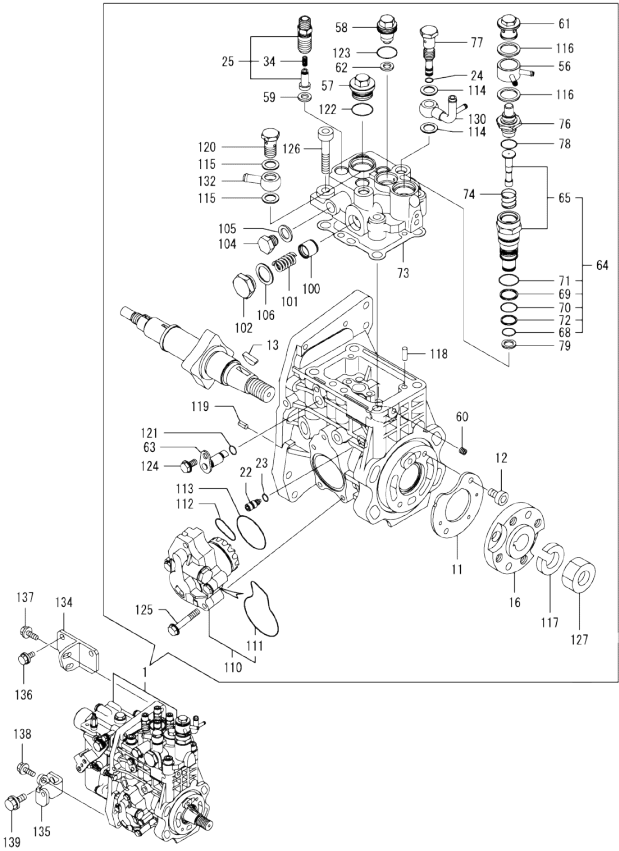
(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729932-51400	FIE ASSY	1							1
11	2	129928-51900	COVER	1							
12	2	129008-51920	BOLT, SOCKET M6X10	2							
13	2	144626-51090	FEATHER KEY, 5X19	1							
16	2	158563-51150	FLANGE	1							
22	2	158600-51270	STOPPER, TAPPET	1							
23	2	158563-51281	O-RING, 4D S6	1							
24	2	158563-51281	O-RING, 4D S6	1							
25	2	129509-51390	VALVE ASSY, DELIVERY	4							
34	3	158563-51330	SPRING, DELIVERY	4							
56	2	158553-51551	JOINT, COOLING WATER	1							
57	2	158601-51550	PLUG, M22	1							
58	2	129907-51560	PLUG, M16	1							
59	2	158552-51571	GASKET, PLUG	4							
60	2	158557-51570	PLUG, RACK	1							
61	2	158601-51570	PLUG	1							
62	2	129906-51580	GASKET, PLUG	1							
63	2	158552-51580	LIFTER, LINK	1							
64	2	119802-51590	TIMER ASSY	1							
65	3	119802-51600	TIMER ASSY	1							
68	3	158553-51670	O-RING	1							
69	3	119802-51680	RING, BACKUP	1							
70	3	119802-51690	O-RING	1							
71	3	24356-190200	O-RING, 4D19020	1							
72	3	24372-000150	RING, BACK UP T2P15	1							
73	2	158560-51600	GASKET	1							
74	2	158553-51630	SPRING, TIMER	1							
76	2	158553-51640	THERMOELEMENT	1							
77	2	158601-51650	JOINT, OVER FLOW	1							
78	2	158553-51660	O-RING, P14	1							
79	2	158553-51680	GASKET, TIMER	1							
100	2	158601-51770	PISTON, ACCUMULATOR	1							
101	2	158552-51781	SPRING, ACCUMULATOR	1							
102	2	158601-51790	PLUG	1							
104	2	158553-51930	PLUG, M12	1							
105	2	22190-120002	WASHER, SEAL 12	1							
106	2	22190-180002	WASHER, SEAL 18	1							
110	2	158552-52100	PUMP ASSY, FUEL FEED	1							
111	3	158552-52500	O-RING	1							
112	2	158552-52311	O-RING	1							
113	2	158552-52400	O-RING, 4E S42	1							
114	2	22190-120002	WASHER, SEAL 12	2							
115	2	22190-120002	WASHER, SEAL 12	2							
116	2	22190-180002	WASHER, SEAL 18	2							
117	2	22217-180000	WASHER, SPRING 18	1							
118	2	22312-050140	PIN, PARALLEL M5X14	2							
119	2	22351-050010	PIN, SPRING 5.0X10	2							
120	2	23857-060000	BOLT, JOINT 6	1							
121	2	24311-000070	O-RING, 1AP7.0	1							
122	2	24356-190200	O-RING, 4D19020	1							
123	2	24356-240210	O-RING, 4D24021	1							

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.11. FUEL INJECTION PUMP



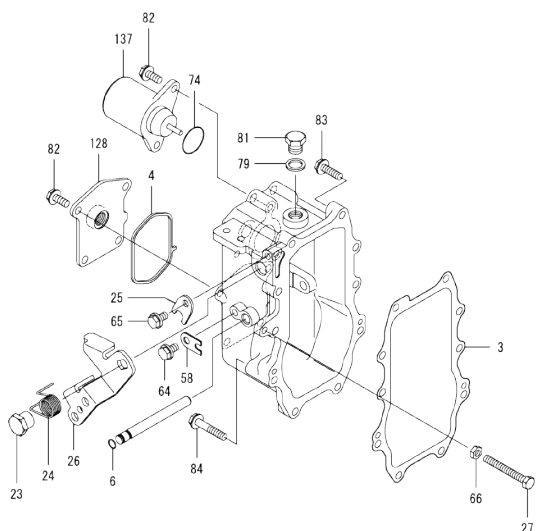
Remarks
(1)Governor(Fig.12)is incorporated in this Fuel Injection Pump (Ref.1).

(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
124	2	26106-060102	BOLT, M6X 10 PLATED	1							
125	2	26106-060352	BOLT, M6X 35 PLATED	4							
126	2	26450-100452	BOLT, M10X 45	4							
127	2	26776-180002	NUT, LOCK M18	1							
130	2	158552-51670	JOINT, OVER FLOW	1							
132	2	129916-59020	JOINT, PIPE 12	1							
134	1	129907-01950	RETAINER, PUMP	1							
135	1	129907-01960	RETAINER, PUMP	1							
136	1	26106-080162	BOLT, M8X 16 PLATED	2							
137	1	26106-080222	BOLT, M8X 22 PLATED	2							
138	1	26106-080222	BOLT, M8X 22 PLATED	1							
139	1	26106-100202	BOLT, M10X 20 PLATED	1							

Fig.12. GOVERNOR



Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.11).

0CW10-M85200 Fig.12

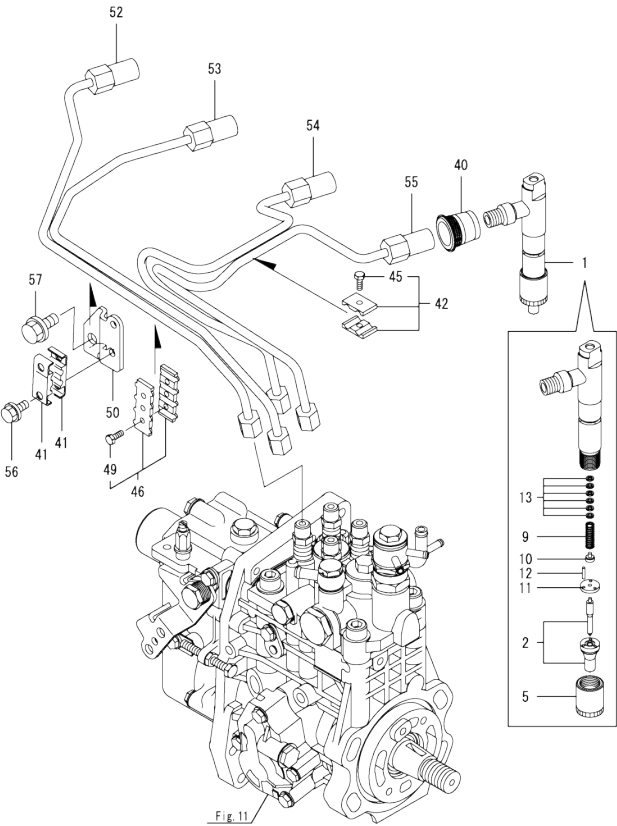
(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158560-61050	GASKET	1							
4	2	158560-61071	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
23	2	129255-61410	NUT, M8	1							
24	2	119807-61420	SPRING, RETURN	1							
25	2	158560-61430	STOPPER, SHAFT	1							
26	2	158560-61442	LEVER, REGULATOR	1							
27	2	129155-61460	BOLT, LIMITING	1							
58	2	119660-61901	STOPPER, SHAFT	1							
64	2	26106-060102	BOLT, M6X 10 PLATED	1							
65	2	26106-060102	BOLT, M6X 10 PLATED	1							
66	2	26756-060002	NUT, LOCK M6	1							
74	2	158552-61900	O-RING	1							
79	2	22190-160002	WASHER, SEAL 16	1							
81	2	23887-160002	PLUG, 16	1							
82	2	26106-060142	BOLT, M6X 14 PLATED	6							
83	2	26106-060252	BOLT, M6X 25 PLATED	8							
84	2	26106-060402	BOLT, M6X 40 PLATED	2							
128	2	129906-61060	COVER, GOVERNOR CASE	1							
137	2	119653-77950	SOLENOID, STOP	1							

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

Fig.13. FUEL INJECTION VALVE

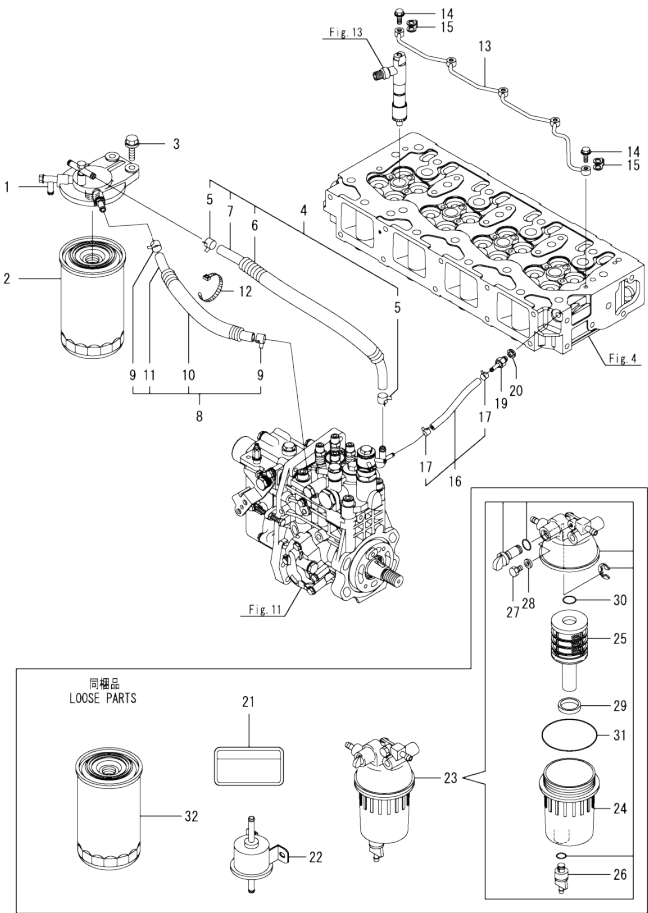


(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729906-53100	FUEL INJECTOR ASSY	4							
2	2	129906-53000	NOZZLE ASSY, F.I.	4							
5	2	114250-53080	NUT, NOZZLE	4							
9	2	114250-53120	SPRING, NOZZLE	4							
10	2	114250-53130	SEAT, SPRING	4							
11	2	114250-53140	SPACER	4							
12	2	114250-53210	PIN	8							
13	2	119803-53400	SHIM SET	4							
40	1	123907-11601	SEAL, PIPE	4							
41	1	122780-59100	RETAINER	2							
42	1	119305-59120	RETAINER, PIPE	1							
45	2	129150-59131	BOLT, M4X14	1							
46	1	129550-59120	RETAINER, PIPE	1							
49	2	129150-59131	BOLT, M4X14	2							
50	1	129907-59710	SUPPORT	1							
52	1	129907-59810	PIPE ASSY, INJECTION	1							
53	1	129907-59820	PIPE ASSY, INJECTION	1							
54	1	129907-59830	PIPE ASSY, INJECTION	1							
55	1	129907-59840	PIPE ASSY, INJECTION	1							
56	1	26106-060162	BOLT, M6X 16 PLATED	2							
57	1	26106-080182	BOLT, M8X 18 PLATED	1							

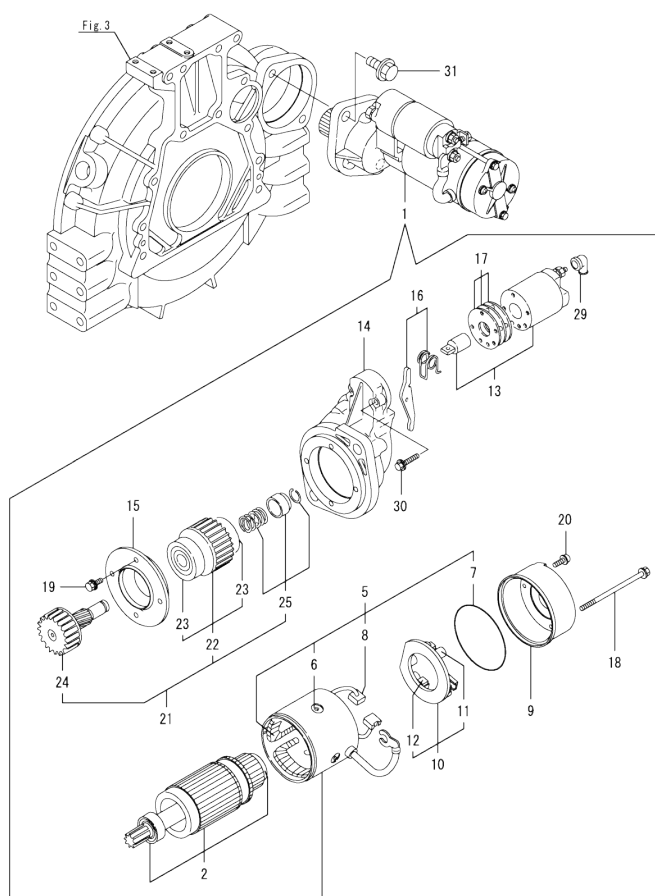
Fig.14. FUEL LINE



(A)=4TNV94L-BVLY
(B)=
(C)=

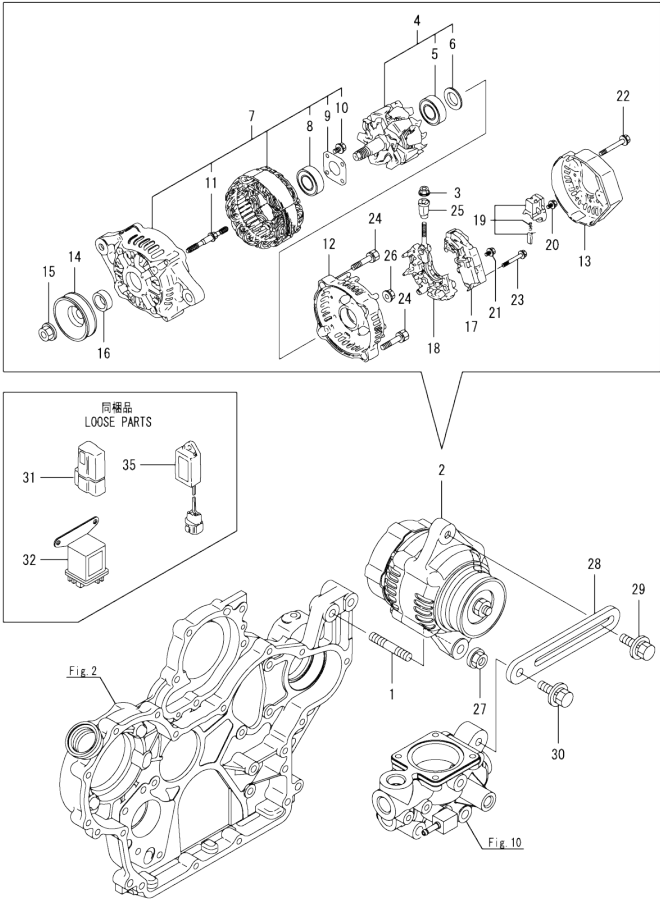
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	129907-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129457-59010	HOSE ASSY, FUEL	1							
5	2	124766-59050	CLAMP, HOSE 11.5	2							
6	2	129957-59120	TUBE, CORRUGATED 15	1							
7	2	105025-59750	HOSE, FUEL	1							
8	1	129981-59010	HOSE ASSY, FUEL	1							
9	2	124766-59050	CLAMP, HOSE 11.5	2							
10	2	129950-59221	TUBE, CORRUGATED 15	1							
11	2	129980-59510	HOSE, FUEL	1							
12	1	121750-59890	BAND, NYLON	1							
13	1	129907-59140	PIPE ASSY, RETURN	1							
14	1	123907-59540	BOLT, PIPE JOINT M6	5							
15	1	123907-59550	GASKET	5							
16	1	129486-59551	HOSE ASSY, RETURN	1							
17	2	124722-59050	CLAMP, HOSE 9	2							
19	1	123907-59560	JOINT, HOSE	1							
20	1	22190-080002	WASHER, SEAL 6	1							
21	1	114110-07761	LABEL, FUEL OIL CAUT	1							
22	1	119225-52102	PUMP, FUEL FEED	1							
23	1	129242-55701	SEPARATOR ASSY,WATER	1							
24	2	129242-55720	CUP, SEPARATOR	1							
25	2	129242-55730	ELEMENT, FUEL	1							
26	2	129242-55740	PLUG, DRAIN	1							
27	2	129242-55750	VALVE, AIR VENT	1							
28	2	129242-55760	GASKET, PLUG	1							
29	2	129242-55770	FLOAT	1							
30	2	24311-000160	O-RING, 1AP16.0	1							
31	2	24321-000750	O-RING, 1AG75.0	1							
32	1	129907-55801	FILTER, FUEL	1							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129940-77011	STARTER ASSY	1							
2	2	129940-77100	ARMATURE ASSY	1							
5	2	129940-77130	COIL ASSY, FIELD	1							
6	3	129940-77140	SCREW, CORE SET	4							
7	3	129940-77150	O-RING	1							
8	3	129940-77160	BRUSH	2							
9	2	129940-77171	COVER	1							
10	2	129940-77181	HOLDER ASSY, BRUSH	1							
11	3	129940-77190	SPRING, BRUSH	1							
12	3	129940-77200	BRUSH	2							
13	2	129940-77210	SWITCH ASSY, MAGNET	1							
14	2	129940-77221	CASE, GEAR	1							
15	2	129940-77230	RETAINER, BEARING	1							
16	2	129940-77240	LEVER SET	1							
17	2	129940-77250	COVER KIT, DUST	1							
18	2	129940-77260	BOLT, THROUGH	2							
19	2	129940-77270	BOLT	4							
20	2	129940-77280	SCREW	2							
21	2	123900-77510	PINION ASSY	1							
22	3	123900-77520	CLUTCH ASSY	1							
23	4	X2240610100	BEARING, BALL	2							
24	3	123900-77540	SHAFT, PINION	1							
25	3	119131-77550	STOPPER SET, PINION	1							
29	2	121254-77810	COVER, TERMINAL	1							
30	2	114371-79070	BOLT	2							
31	1	26106-120252	BOLT, M12X 25 PLATED	2							

Fig.16. GENERATOR

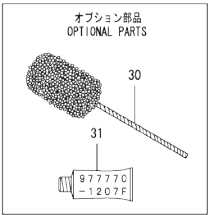
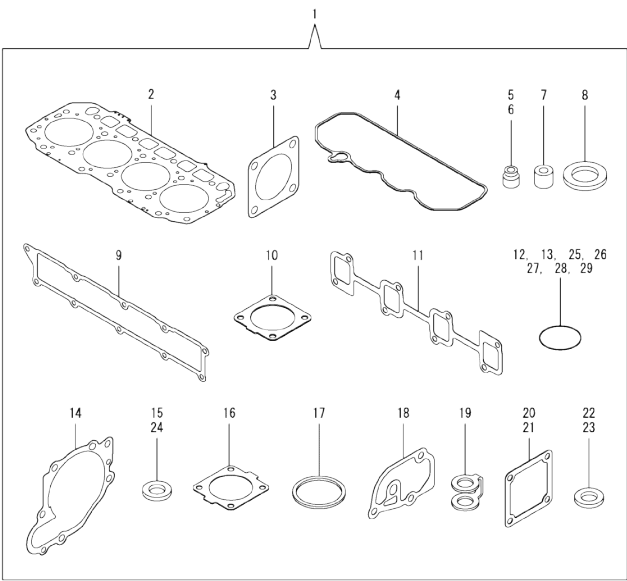


(A)=4TNV94L-BVLY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	BOLT, STUD M10X33	1							
2	1	119626-77210	ALTERNATOR, 12V-55A	1							
3	2	X9490561001	NUT	1							
4	2	129052-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	129052-77422	FRAME ASSY	1							
8	3	119620-79200	BEARING, BALL	1							
9	3	119620-79210	RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	BOLT, STUD	2							
12	2	128401-77440	COVER	1							
13	2	119626-77450	FRAME	1							
14	2	119620-77461	PULLEY, GENERATOR	1							
15	2	119620-77471	NUT	1							
16	2	119620-77490	COLLAR	1							
17	2	119626-77710	REGULATOR ASSY	1							
18	2	129052-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	2	119620-79290	SCREW	6							
21	2	119620-79300	SCREW	1							
22	2	119620-79310	BOLT	3							
23	2	119620-79320	SCREW	2							
24	2	119620-79330	BOLT	2							
25	2	119620-79340	BUSH, INSULATION	1							
26	2	119620-79350	NUT	2							
27	1	26306-100002	NUT, M10	1							
28	1	129900-77330	ADJUSTER, BELT	1							
29	1	119810-77340	BOLT, ADJUST L=30	1							
30	1	26014-080252	BOLT, M8X 25	1							
31	1	119643-66900	DIODE	1							
32	1	119650-77911	RELAY ASSY, GLOW	1							
35	1	129211-77920	TIMER	1							

0CW10-M85200 4TNV94L-BVLY
Fig.17. GASKET SET



Remarks
(1)Optional parts.

							0CW10-M85200 Fig.17	
							(A)=4TNV94L-BVLY	(D)=
							(B)=	(E)=
							(C)=	(F)=
							Q'ty	
							(A)	(B)
							(C)	(D)
							(E)	(F)
							I	
							R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)
(F)								
1	1	129932-92720	GASKET SET	1				
2	2	129906-01350	GASKET, HEAD	1				
3	2	129C26-01890	GASKET, HO-P	1				
4	2	129933-11310	GASKET, BONNET	1				
5	2	119803-11340	SEAL, VALVE STEM	8				
6	2	124160-11340	SEAL, VALVE STEM	8				
7	2	119802-11870	PROTECTOR, NOZZLE	4				
8	2	119625-11880	SEAT, NOZZLE	4				
9	2	129907-12110	GASKET, MANIFOLD	1				
10	2	129930-13201	GASKET, SILENCER	2				
11	2	129900-13251	GASKET, EXH.MANIFOLD	1				
12	2	129900-32030	O-RING, P20	2				
13	2	129900-32040	O-RING, P14	1				
14	2	129900-42020	GASKET, WATER PUMP	1				
15	2	124465-44950	GASKET, 16	2				
16	2	121850-49540	GASKET, THERMOSTAT	1				
17	2	121850-49550	GASKET, THERMOSTAT	1				
18	2	129900-49870	GASKET, THERMOSTAT	1				
19	2	123907-59550	GASKET	5				
20	2	119129-77020	GASKET	1				
21	2	121850-77021	GASKET, AIR HEATER	1				
22	2	22190-080002	WASHER, SEAL 6	7				
23	2	22190-220002	WASHER, SEAL 22	1				
24	2	23414-080000	GASKET, 8X1.0	1				
25	2	24311-000070	O-RING, 1AP7.0	1				
26	2	24311-000120	O-RING, 1AP12.0	8				
27	2	24311-000320	O-RING, 1AP32.0	2				
28	2	24341-000530	O-RING, 1AS53.0	1				
29	2	24351-030750	O-RING, 1A3075	1				
30	1	129400-92440	HONE, FLEX	1				
31	1	977770-1207F	GASKET,LIQUID	1				

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59750	14	7
114110-07761	14	21
114250-39450	9	13
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114371-79070	15	30
119000-35140	9	3
119005-35151	9	26
		27
119117-44760	10	17
119129-77020	17	20
119131-18320	6	5
119131-77550	15	25
119225-52102	14	22
119305-59120	13	42
119593-11301	4	27
119620-01750	3	4
119620-11180	4	12
119620-77461	16	14
119620-77471	16	15
119620-77490	16	16
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79290	16	20
119620-79300	16	21
119620-79310	16	22
119620-79320	16	23
119620-79330	16	24
119620-79340	16	25
119620-79350	16	26
119625-11880	4	23
	17	8
119626-77210	16	2
119626-77450	16	13
119626-77710	16	17
119640-01640	3	9
119640-61400	4	58
119643-66900	16	31
119650-77911	16	32
119653-77950	12	137
119660-61901	12	58
119802-11870	4	22
	17	7
119802-51590	11	64

Parts No.	Fig. No.	Ref. No.
119802-51600	11	65
119802-51680	11	69
119802-51690	11	70
119803-11340	4	13
	17	5
119803-53400	13	13
119807-61420	12	24
119810-77340	16	29
120130-22301	8	23
121254-77810	15	29
121450-42450	10	35
121520-34810	9	1
121750-59890	14	12
121850-21130	8	11
121850-21290	8	4
121850-21920	8	5
121850-49540	10	23
	17	16
121850-49550	10	24
	17	17
121850-49811	10	26
121850-77021	5	5
	17	21
122780-59100	13	41
123501-79240	16	5
123900-13610	6	3
123900-13630	6	4
123900-25060	7	9
123900-77510	15	21
123900-77520	15	22
123900-77540	15	24
123907-03100	4	52
123907-03110	4	53
123907-03120	4	54
123907-03140	4	55
123907-11280	4	32
123907-11550	4	1
123907-11601	13	40
123907-11820	4	19
123907-11830	4	18
123907-39500	9	16
123907-59540	14	14
123907-59550	14	15
	17	19
123907-59560	14	19
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	4	47
124160-11340	4	14
	17	6
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124722-59050	10	42
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	14	17
124766-59050	14	5
		9
128401-77440	16	12
129004-55612	14	1
129005-59830	9	18
129008-51920	11	12
129052-77380	16	4
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129052-79270	16	19
129100-01580	2	4
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129150-02450	7	4
129150-11230	4	35
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129150-11750	4	17
		36
		40
129150-14200	7	1
129150-25920	7	16
129150-49360	10	38
129150-59131	13	45
		49
129155-51280	12	6
129155-61460	12	27
129211-77920	16	35
129242-55701	14	23
129242-55720	14	24
129242-55730	14	25
129242-55740	14	26
129242-55750	14	27
129242-55760	14	28
129242-55770	14	29
129255-61410	12	23
129400-92440	17	30
129457-59010	14	4
129486-59551	14	16
129509-51390	11	25
129550-59120	13	46
129795-01900	16	1
129900-01200	1	27
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129900-02341	1	33
129900-02410	1	9
129900-02931	1	24
129900-02941	1	36
129900-13251	6	2
	17	11
129900-14100	7	6
129900-21200	8	3
129900-21600	8	14
129900-23001	8	25
129900-23200	8	28
129900-23601	8	29
129900-23611	8	32
129900-23911	8	31
129900-25100	7	10
129900-32001	2	8
129900-32030	2	20
	9	5
	17	12
129900-32040	2	21
	17	13
129900-42020	10	11
	17	14
129900-42450	10	14 -1
129900-42462	10	14
129900-49870	10	31
	17	18
129900-77330	16	28
129902-21000	8	1
129906-01350	1	28
	17	2
129906-22050	8	17
129906-22090	8	15
129906-22910	8	34
129906-34851	9	2
129906-51580	11	62
129906-53000	13	2
129906-61060	12	128
129907-01190	1	29
129907-01500	2	7
129907-01950	11	134
129907-01960	11	135
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129907-11120	4	11	129928-51900	11	11	158553-51670	11	68			12
129907-11250	4	29	129930-13201	6	7	158553-51680	11	79		4	7
129907-11260	4	30		17	10	158553-51930	11	104	23887-160002	12	81
129907-11270	4	31	129932-92720	17	1	158557-51570	11	60	24311-000070	2	22
129907-11321	4	48	129933-11310	4	57	158560-51600	11	73		11	121
129907-11341	4	28		17	4	158560-61050	12	3		17	25
129907-11510	4	15	129940-77011	15	1	158560-61071	12	4	24311-000120	4	26
129907-11650	4	33	129940-77100	15	2	158560-61430	12	25			62
129907-11660	4	37	129940-77130	15	5	158560-61442	12	26		17	26
129907-11700	4	2	129940-77140	15	6	158563-51150	11	16	24311-000160	14	30
129907-11800	4	66	129940-77150	15	7	158563-51281	11	23	24311-000320	2	34
129907-11910	4	24	129940-77160	15	8			24		4	63
129907-11920	4	41	129940-77171	15	9	158563-51330	11	34		17	27
129907-11950	4	25	129940-77181	15	10	158600-51270	11	22	24321-000750	14	31
129907-12100	5	1	129940-77190	15	11	158601-51550	11	57	24341-000530	17	28
129907-12110	5	2	129940-77200	15	12	158601-51570	11	61	24351-030750	2	23
	17	9	129940-77210	15	13	158601-51650	11	77		17	29
129907-13201	6	1	129940-77221	15	14	158601-51770	11	100	24356-190200	11	71
129907-14400	7	2	129940-77230	15	15	158601-51790	11	102			122
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129907-25900	7	15	129940-77250	15	17	171056-49120	9	25	24372-000150	11	72
129907-39061	9	14	129940-77260	15	18	22190-080002	9	19	25152-004100	10	15
129907-42001	10	1	129940-77270	15	19			21	25152-004200	10	15 -1
129907-49610	10	39	129940-77280	15	20			23	26014-080252	16	30
129907-49620	10	43	129950-59221	14	10		14	20	26106-060102	11	124
129907-49710	10	40	129951-01740	2	5		17	22		12	64
129907-49720	10	44	129953-25300	7	14	22190-120002	11	105			65
129907-49730	10	25	129953-35000	9	6			114	26106-060122	10	29
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		32	129980-59510	14	11	22190-220002	3	11	26106-060302	10	12
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129907-59710	13	50	129C26-01890	2	36	22217-180000	11	117	26106-060402	12	84
129907-59810	13	52		17	3	22252-000300	8	24	26106-080122	3	12
129907-59820	13	53	144626-51090	11	13	22312-050140	11	118		9	11
129907-59830	13	54	158552-51571	11	59	22351-050010	11	119			22
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129908-14581	7	3	158552-51670	11	130	22512-070140	7	7		10	33
129915-77051	5	6	158552-51781	11	101		8	6	26106-080162	2	24
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129916-01800	2	3	158552-52400	11	113	23414-080000	10	32		7	8
129916-21590	8	12	158552-52500	11	111		17	24		9	12
129916-21610	8	7	158552-61900	12	74	23857-030000	9	20		11	136
129916-22950	8	36	158553-51551	11	56	23857-060000	11	120	26106-080182	13	57
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	4	43
26106-080452	2	28
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	7	13
	10	13
26106-080602	4	44
		45
	10	34
26106-080702	2	30
26106-080752	2	31
26106-080802	10	18
26106-080852	5	4
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26206-100352	3	5
26206-100702	3	6
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26226-080222	4	42
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	6	6
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27241-400000	4	8
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729906-01561	1	1
729906-53100	13	1
729907-01559	2	1
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