

0CW10-M73700EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV82A-BNIS for ISAL.

Pub.No. : 0CW10-G73700

Published : March, 2012

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV82A-BNIS	SWEEPER	ISAL

Directions for the Parts Catalog.

1. This Parts Catalog shows both standard and optional parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST 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 Symbol

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

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

④ Effective Machine No.

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

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

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

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

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

⑤ Remarks

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

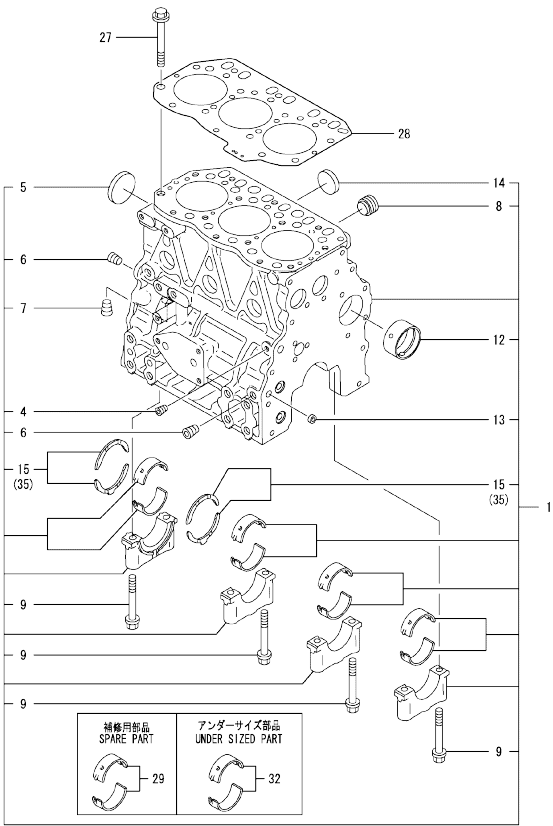
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNV82A-BNIS			
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4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD		
6.	EXHAUST MANIFOLD		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB. OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FUEL INJECTION VALVE		
14.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

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Fig.1. CYLINDER BLOCK

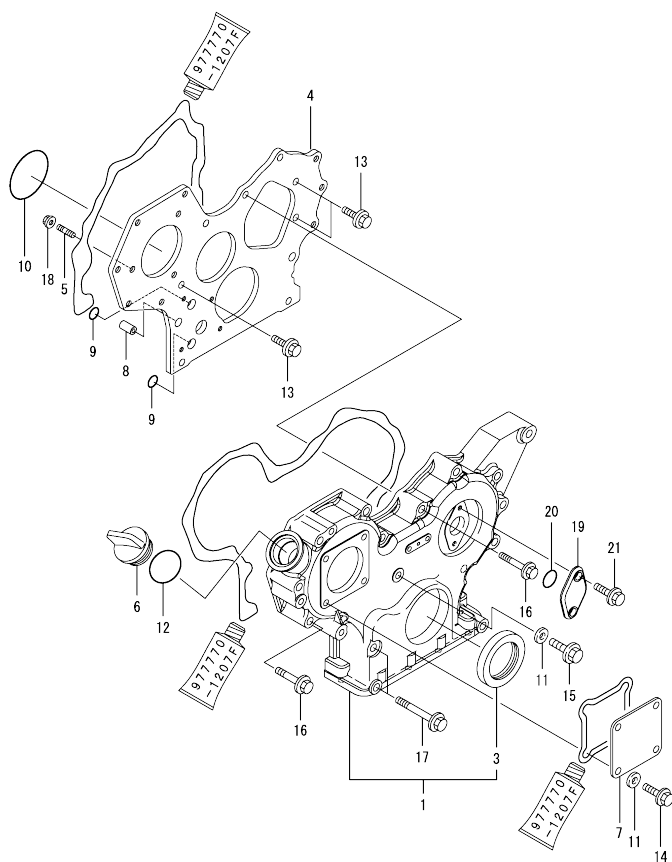


Remarks
(1)Spare part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719802-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, 50	1							
6	2	124160-01910	PLUG, PT1/4	2							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	171051-01921	PLUG, NPTF1	1							
9	2	119620-02020	BOLT, METAL CAP	8							
12	2	129795-02412	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	2							
14	2	27241-300000	PLUG 30	6							
15	2	119717-02930	BEARING, THRUST	2							
27	1	119810-01200	BOLT, HEAD	14							
28	1	119812-01330	GASKET, HEAD	1							
29	1	719810-02981	BEARING, MAIN	4							1
32	1	119810-02871	BEARING, 0.25 US	4							2
35	1	119810-02941	BEARING, THRUST 0.25	2							3

N:Old $\frac{YRS}{100}$ New, Q:Old $\frac{RIS}{100}$ New, R:Old $\frac{YRS}{100}$ New, S:Old $\frac{RIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2. GEAR HOUSING



				(A)=3TNV82A-BNIS	(D)=						I	R	
				(B)=	(E)=								
				(C)=	(F)=								
No.	Lev.	Parts No.	Description	Qty									
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	729630-01500	CASE ASSY, GEAR	1									
3	2	119934-01800	SEAL, OIL	1									
4	1	119803-01520	FLANGE, GEAR CASE	1									
5	1	119802-01561	STUD, M8X25	3									
6	1	124160-01751	COVER, FILLER	1									
7	1	124240-01871	COVER	1									
8	1	129795-01950	PIPE, KNOCK L=18	2									
9	1	119609-32040	O-RING, P16	2									
10	1	121850-51960	O-RING	1									
11	1	22190-080002	WASHER, SEAL 6	5									
12	1	24311-000320	O-RING, 1AP32.0	1									
13	1	26106-080162	BOLT, M8X 16 PLATED	3									
14	1	26106-080162	BOLT, M8X 16 PLATED	4									
15	1	26106-080302	BOLT, M8X 30 PLATED	1									
16	1	26106-080552	BOLT, M8X 55 PLATED	12									
17	1	26106-080852	BOLT, M8X 85 PLATED	3									
18	1	26306-080002	NUT, M8	3									
19	1	121023-01551	COVER	1									
20	1	24341-000240	O-RING, 1AS24.0	1									
21	1	26106-060162	BOLT, M6X 16 PLATED	2									

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

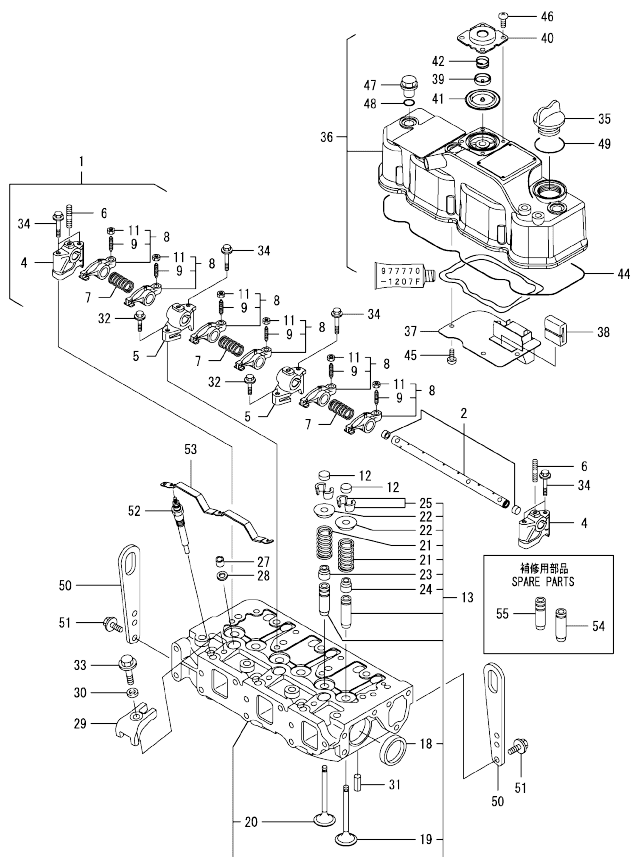
Fig.3. FLYWHEEL HOUSING & OIL SUMP



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

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Fig.4. CYLINDER HEAD & BONNET

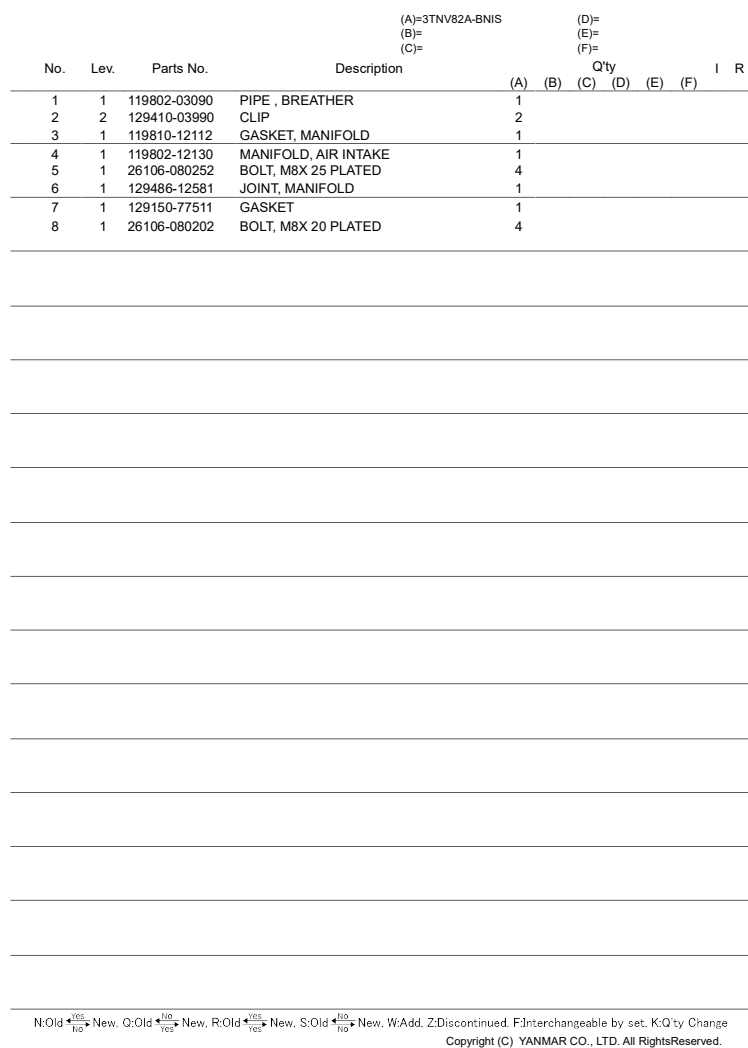


Remarks
(1)Spare part.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-11241	SHAFT ASSY, ROCKER	1							
2	2	119802-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	2							
6	2	119802-11280	STUD	3							
7	2	129150-11280	SPRING	3							
8	2	119802-11650	ARM, ROCKER	6							
9	3	129150-11230	SCREW, VALVE ADJUST	6							
11	3	129150-11750	NUT, M8	6							
12	1	104211-11370	CAP, VALVE	6							
13	1	119803-11700	HEAD ASSY, CYLINDER	1							
18	2	27241-400000	PLUG, 40	2							
19	2	119802-11100	VALVE, INTAKE	3							
20	2	119802-11110	VALVE, EXHAUST	3							
21	2	119810-11120	SPRING, VALVE	6							
22	2	104211-11180	RETAINER, SPRING	6							
23	2	119803-11340	SEAL, VALVE STEM	3							
24	2	124160-11340	SEAL, VALVE STEM	3							
25	2	27310-070001	COTTER, 7	6							
27	1	119802-11870	PROTECTOR, NOZZLE	3							
28	1	119625-11880	SEAT, NOZZLE	3							
29	1	119802-11900	RETAINER, NOZZLE	3							
30	1	120270-54410	WASHER, INJECTOR	3							
31	1	22351-060012	PIN, SPRING 6.0X12	2							
32	1	26106-080252	BOLT, M8X 25 PLATED	2							
33	1	26106-080452	BOLT, M8X 45 PLATED	3							
34	1	26106-080502	BOLT, M8X 50 PLATED	6							
35	1	124160-01751	COVER, FILLER	1							
36	1	119802-11350	BONNET ASSY, HEAD	1							
37	2	119802-03010	PLATE	1							
38	2	129150-03070	BAFFLE, BREATHER	1							
39	2	119802-03110	PLATE	1							
40	2	119802-03121	COVER, DIAPHRAGM	1							
41	2	119802-03130	DIAPHRAGM	1							
42	2	119802-03141	SPRING, DIAPHRAGM	1							
44	2	119802-11310	GASKET, BONNET	1							
45	2	22857-500100	SCREW, 5X10	4							
46	2	22857-500100	SCREW, 5X10	4							
47	1	124160-11360	KNOB	3							
48	1	24311-000120	O-RING, 1AP12.0	3							
49	1	24311-000320	O-RING, 1AP32.0	1							
50	1	129900-07900	LIFTER	2							
51	1	26106-080162	BOLT, M8X 16 PLATED	4							1
52	1	129008-77800	PLUG, GLOW	3							
53	1	119803-77821	CONNECTOR, GLOW PLUG	1							
54	1	124060-11800	GUIDE, VALVE	3							1
55	1	119802-11810	GUIDE, VALVE	3							1

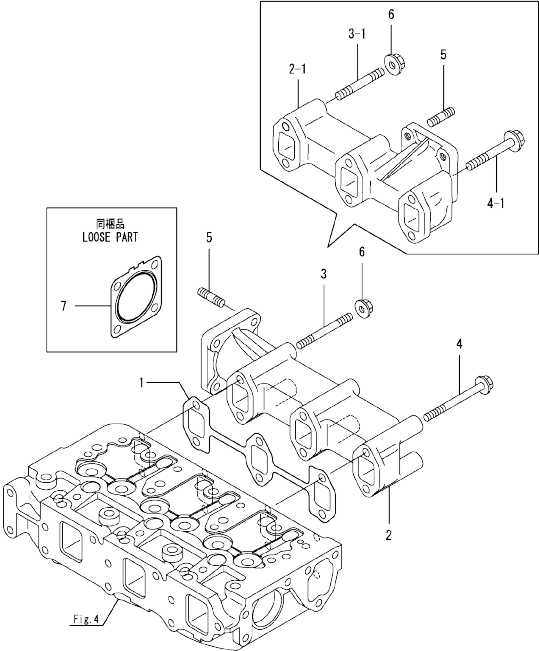
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD



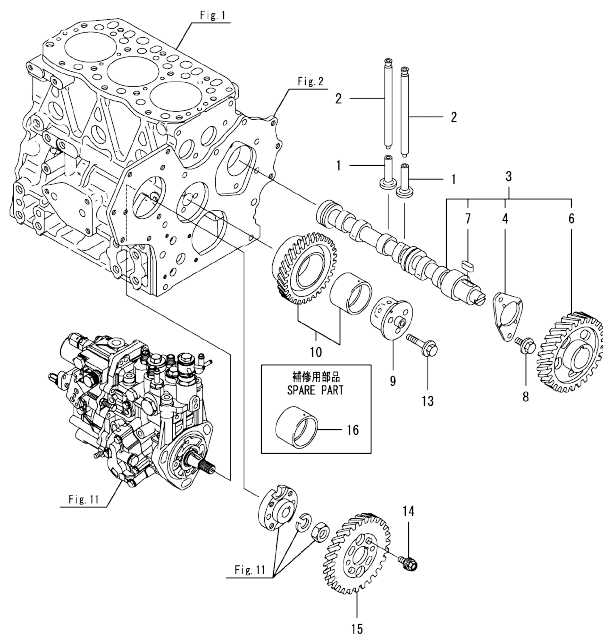
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.6. EXHAUST MANIFOLD



Remarks
(1)Ref.2 is interchangeable with
a set of 2-1,3-1 & 4-1.

No.	Lev.	Parts No.	Description	(A)=3TNV82A-BNIS (B)= (C)=						Q'ty	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119810-13110	GASKET	1								
2	1	119802-13129	MANIFOLD, EXHAUST	1								
2-1	1	119810-13100	MANIFOLD, EXHAUST	1							F	1
(A=E84181)												
3	1	123900-13610	STUD, M8X80	2								
3-1	1	119802-13740	STUD, M8X60	2							S	
(A=E84181)												
4	1	123900-13630	BOLT, M8X80	4								
4-1	1	119802-13640	BOLT, M8X60 10.9T	4							S	
(A=E84181)												
5	1	119131-18320	STUD, M8X22	4								
6	1	26306-080002	NUT, M8	2								
7	1	129004-13200	GASKET, SILENCER	1								



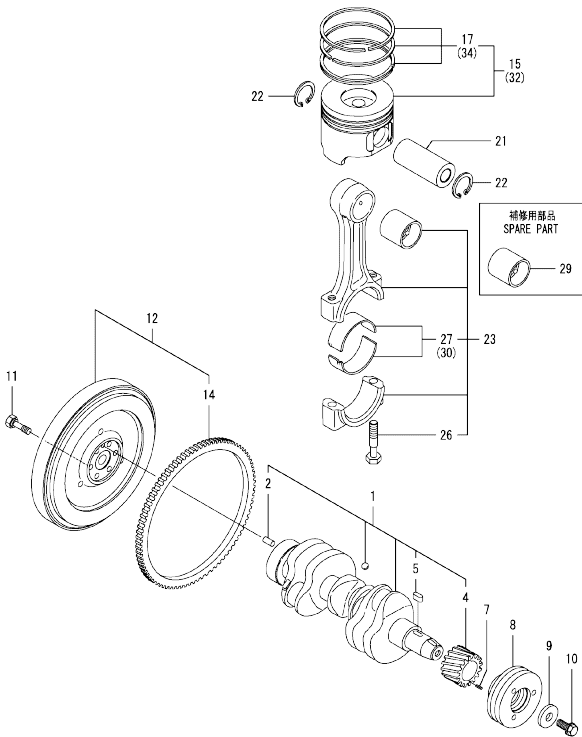
No.	Lev.	Parts No.	Description	(A)=3TNV82A-BNIS			(D)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119802-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	119803-25050	SHAFT, IDLE	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	26106-080402	BOLT, M8X 40 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119802-25901	GEAR, PUMP	1							
16	1	119802-25071	BUSH, IDLE GEAR	1							1

Remarks
(1)Spare part.

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

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Fig.8. CRANKSHAFT & PISTON

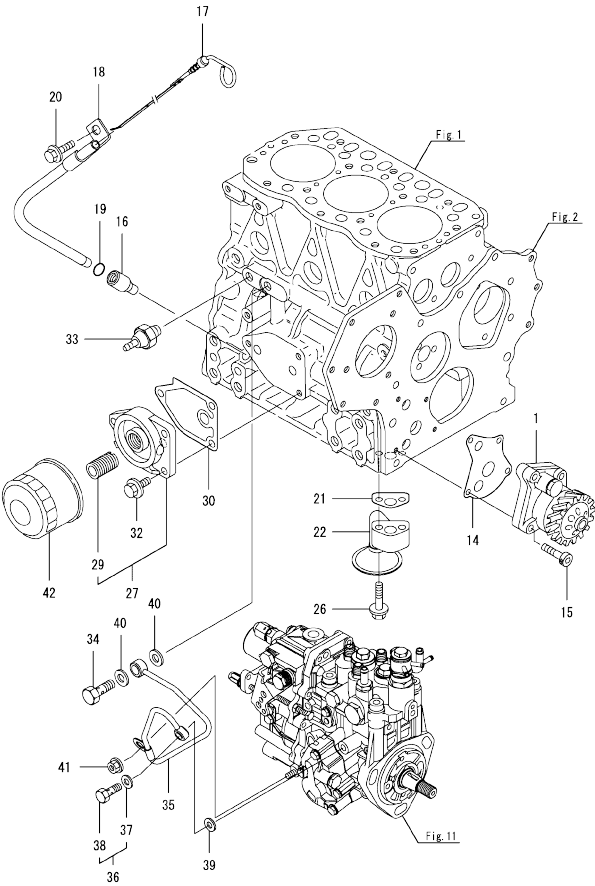


Remarks
(1)Spare part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

No.	Lev.	Parts No.	Description	(A)=3TNV82A-BNIS						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119803-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	119802-21650	V-PULLEY, 110	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129489-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	119803-22080	PISTON ASSY	3							
17	2	119802-22500	RING SET, PISTON	3							
21	1	119813-22300	PIN, PISTON	3							
22	1	129792-22400	CIRCLIP, 23	6							
23	1	719810-23100	ROD ASSY, CONNECTING	3							
26	2	119810-23200	BOLT, CONNECTING ROD	6							
27	2	119810-23601	BEARING, CRANK PIN	3							
29	1	119810-23910	BEARING, PISTON PIN	3							1
30	1	119810-23611	BEARING, 0.25 US	3							2
32	1	719803-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119802-22950	RING SET, 0.25 OS	3							3

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Fig.9. LUB. OIL SYSTEM

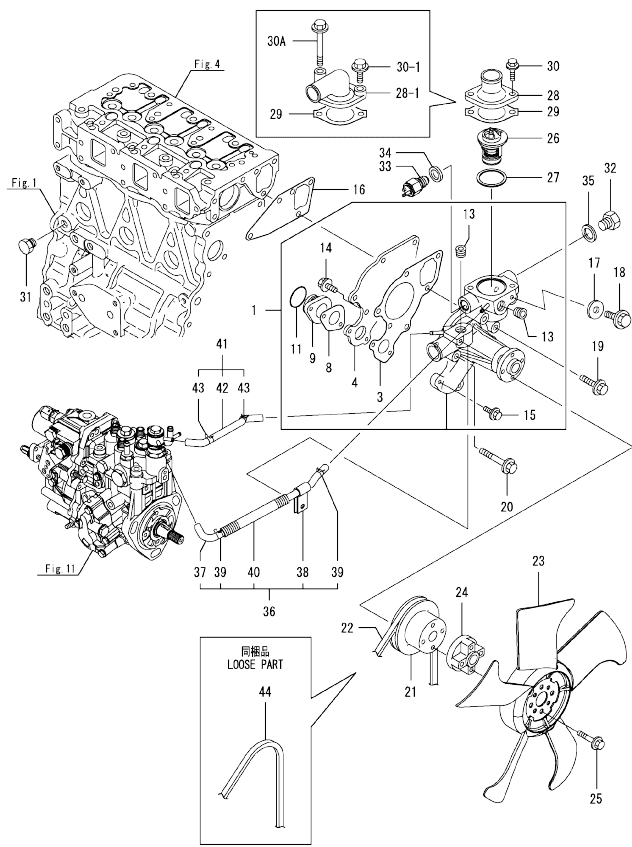


Remarks
(1)Spare part.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	119260-34810	GUIDE, DIPSTICK	1							
17	1	119802-34821	DIPSTICK, OIL	1							
18	1	119802-34850	GUIDE, DIPSTICK	1							
19	1	24316-240100	O-RING, 4DP10A	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	1							
21	1	129150-35042	GASKET	1							
22	1	119810-35300	PIPE ASSY, OIL INLET	1							
26	1	26106-080352	BOLT, M8X 35 PLATED	2							
27	1	119802-35100	BRACKET ASSY, FILTER	1							
29	2	129100-35140	STUD	1							
30	1	129150-35111	GASKET	1							
32	1	26106-080202	BOLT, M8X 20 PLATED	3							
33	1	114250-39450	SWITCH, 0.5KG	1							
34	1	124160-39140	BOLT, PIPE JOINT M10	1							
35	1	119802-39450	PIPE ASSY, OIL	1							
36	1	129005-59830	BOLT ASSY, JOINT M8	1							
37	2	22190-080002	WASHER, SEAL 6	1							
38	2	23857-030000	BOLT, JOINT 3	1							
39	1	22190-080002	WASHER, SEAL 6	1							
40	1	22190-100002	WASHER, SEAL 10	2							
41	1	26366-060002	NUT, M6	1							
42	1	129150-35153	FILTER	1							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.10. COOLING WATER SYSTEM

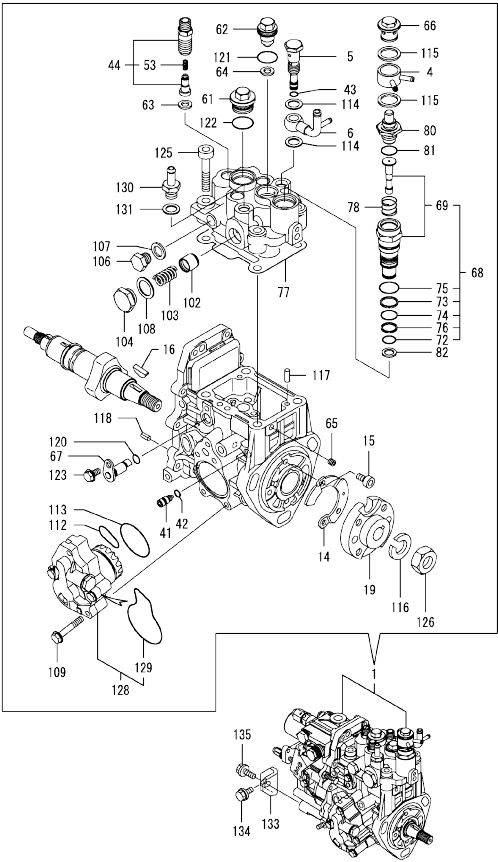


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-42001	PUMP ASSY, WATER	1							
3	2	119810-42051	GASKET, WATER PUMP	1							
4	2	119810-42120	PLATE	1							
8	2	119810-42281	GASKET, WATER PUMP	1							
9	2	119810-42290	PIPE	1							
11	2	129054-42320	O-RING	1							
13	2	23876-030000	PLUG, R03	2							
14	2	26106-060142	BOLT, M6X 14 PLATED	2							
15	2	26106-060202	BOLT, M6X 20 PLATED	2							
16	1	129486-42050	GASKET, WATER PUMP	1							
17	1	23414-080000	GASKET, 8X1.0	1							
18	1	26106-080122	BOLT, M8X 12 PLATED	1							
19	1	26106-080352	BOLT, M8X 35 PLATED	1							
20	1	26106-080552	BOLT, M8X 55 PLATED	3							
21	1	129403-42380	V-PULLEY, D=110	1							
22	1	25132-003900	V-BELT, A39	1							Z
(A=E96287)											
23	1	129335-44740	FAN, COOLING D335	1							
24	1	171353-44760	SPACER, FAN	1							
25	1	26106-060402	BOLT, M6X 40 PLATED	4							
26	1	129155-49801	THERMOSTAT, 71	1							
27	1	129150-49811	GASKET, THERMOSTAT	1							
28	1	129350-49530	COVER, THERMOSTAT	1							
28-1	1	124101-49531	COVER, THERMOSTAT	1						F	1
(A=E96287)											
29	1	129795-49551	GASKET	1							
30	1	26106-080222	BOLT, M8X 22 PLATED	2							
30-1	1	26106-080252	BOLT, M8X 25 PLATED	1							S
(A=E96287)											
30A	1	26106-080652	BOLT, M8X 65 PLATED	1							W
(A=E96287)											
31	1	171056-49120	PLUG, DRAIN	1							
32	1	121450-42450	PLUG, M16	1							
33	1	121250-44901	SWITCH, 110	1							
34	1	124465-44950	GASKET, 16	1							
35	1	124465-44950	GASKET, 16	1							
36	1	119802-49610	PIPE ASSY, WATER	1							
37	2	119802-49711	PIPE ASSY, WATER	1							
38	2	119802-49730	RETAINER, PIPE	1							
39	2	124722-59050	CLIP, HOSE 9	2							
40	2	119802-59320	TUBE, CORRUGATED	1							
41	1	119802-49620	PIPE ASSY, WATER	1							
42	2	119802-49721	PIPE ASSY, WATER	1							
43	2	124722-59050	CLIP, HOSE 9	2							
44	1	25132-003900	V-BELT, A39	1							W
(A=E96287)											

Remarks
(1)Ref.28 is interchangeable with
a set of 28-1,30-1 & 30A.

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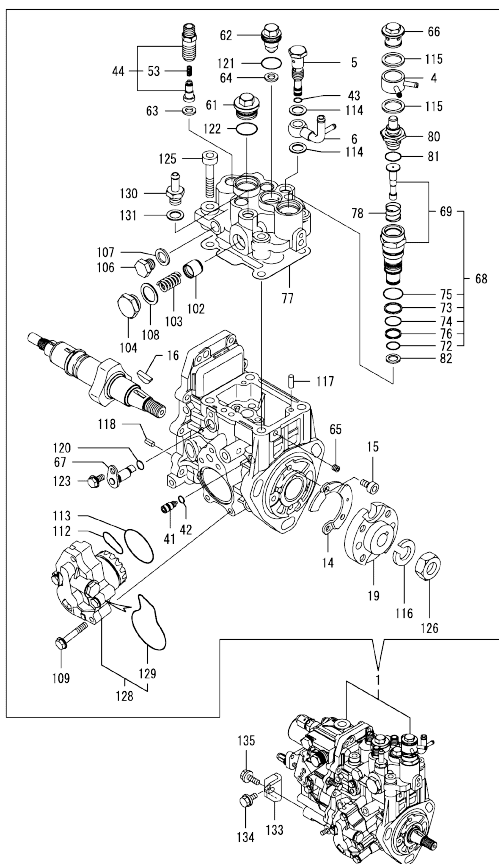
Fig.11. FUEL INJECTION PUMP



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719935-51391	PUMP ASSY, INJECTION	1							1
4	2	158553-51551	JOINT	1							
5	2	158601-51650	JOINT, OVER FLOW	1							
6	2	158552-51670	JOINT, OVER FLOW	1							
14	2	129008-51900	COVER, GEAR CASE	1							
15	2	129008-51920	BOLT, M6X10	2							
16	2	119802-51090	KEY, 4X16	1							
19	2	158552-51151	FLANGE	1							
41	2	158600-51270	STOPPER, TAPPET	1							
42	2	158563-51281	O-RING, 4D S6	1							
43	2	158563-51281	O-RING, 4D S6	1							
44	2	129008-51390	VALVE ASSY, DELIVERY	3							
53	3	158563-51330	SPRING, DELIVERY	3							
61	2	158601-51550	PLUG	1							
62	2	119802-51560	PLUG, BARREL	1							
63	2	158552-51571	GASKET	3							
64	2	158552-51571	GASKET	1							
65	2	158557-51570	PLUG	1							
66	2	158601-51570	PLUG	1							
67	2	158552-51580	LIFTER	1							
68	2	119802-51590	TIMER SET	1							
69	3	119802-51600	TIMER ASSY	1							
72	3	158553-51670	O-RING, 1011	1							
73	3	119802-51680	RING, BACK UP	1							
74	3	119802-51690	O-RING	1							
75	3	24356-190200	O-RING, 4D19020	1							
76	3	24372-000150	RING, BACK UP T2P15	1							
77	2	158552-51600	GASKET	1							
78	2	158553-51630	SPRING, TIMER	1							
80	2	158553-51650	ELEMENT	1							
81	2	158553-51660	O-RING, P14	1							
82	2	158553-51680	GASKET	1							
102	2	158601-51770	PISTON	1							
103	2	158552-51781	SPRING	1							
104	2	158601-51790	PLUG	1							
106	2	158553-51930	PLUG, M12	1							
107	2	22190-120002	WASHER, SEAL 12	1							
108	2	22190-180002	WASHER, SEAL 18	1							
109	2	158553-51770	BOLT	4							
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	22190-180002	WASHER, SEAL 18	2							
116	2	22217-140000	WASHER, SPRING 14	1							
117	2	22312-050140	PIN, PARALLEL M5X14	2							
118	2	22351-050010	PIN, SPRING 5.0X10	2							
120	2	24311-000070	O-RING, 1AP7.0	1							
121	2	24356-190180	O-RING, 4D19018	1							
122	2	24356-190200	O-RING, 4D19020	1							
123	2	26106-060102	BOLT, M6X 10 PLATED	1							
125	2	26450-080452	BOLT, M8X 45	4							

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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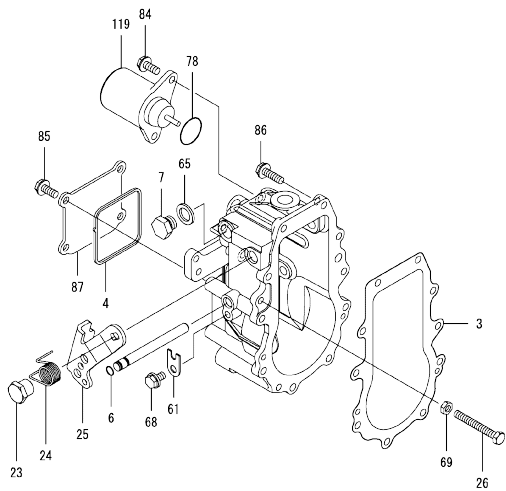
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No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I	R
126	2	26776-140002	NUT, LOCK M14	1							
128	2	158552-52100	PUMP ASSY, FUEL FEED	1							
129	3	158552-52500	O-RING	1							
130	2	119934-59910	JOINT, PIPE	1							
131	2	22190-120002	WASHER, SEAL 12	1							
133	1	119802-51250	RETAINER, PUMP	1							
134	1	26106-080162	BOLT, M&X 16 PLATED	1							
135	1	26106-080202	BOLT, M&X 20 PLATED	1							

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

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

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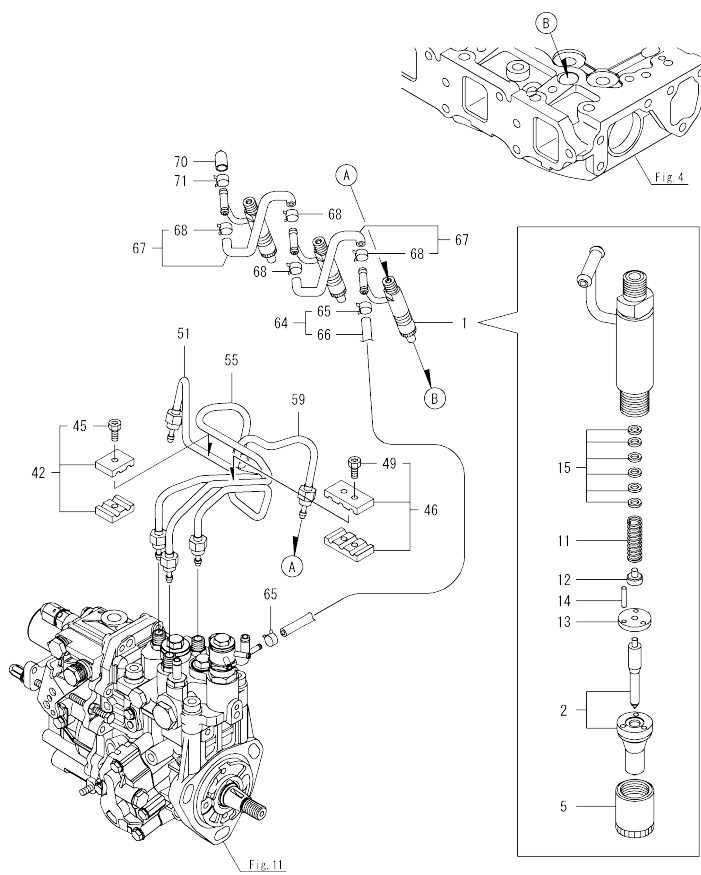
Fig.12. GOVERNOR



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

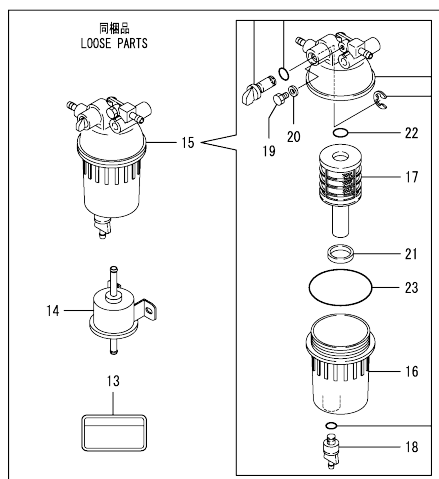
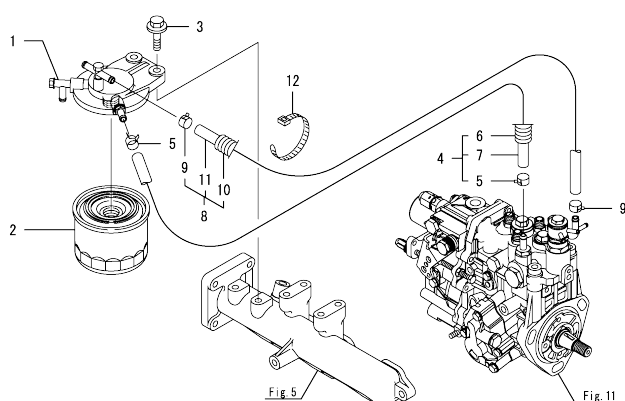
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
7	2	158553-51930	PLUG, M12	1							
23	2	129255-61410	NUT, LOCK	1							
24	2	119807-61420	SPRING, RETURN	1							
25	2	158552-61441	LEVER, REGULATOR	1							
26	2	129155-61460	BOLT, IDLE	1							
61	2	119660-61901	RETAINER, SHAFT	1							
65	2	22190-120002	WASHER, SEAL 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							
87	2	129642-61060	COVER, GOVERNOR CASE	1							
119	2	119233-77932	SOLENOID, STOP	1							

Fig.13. FUEL INJECTION VALVE

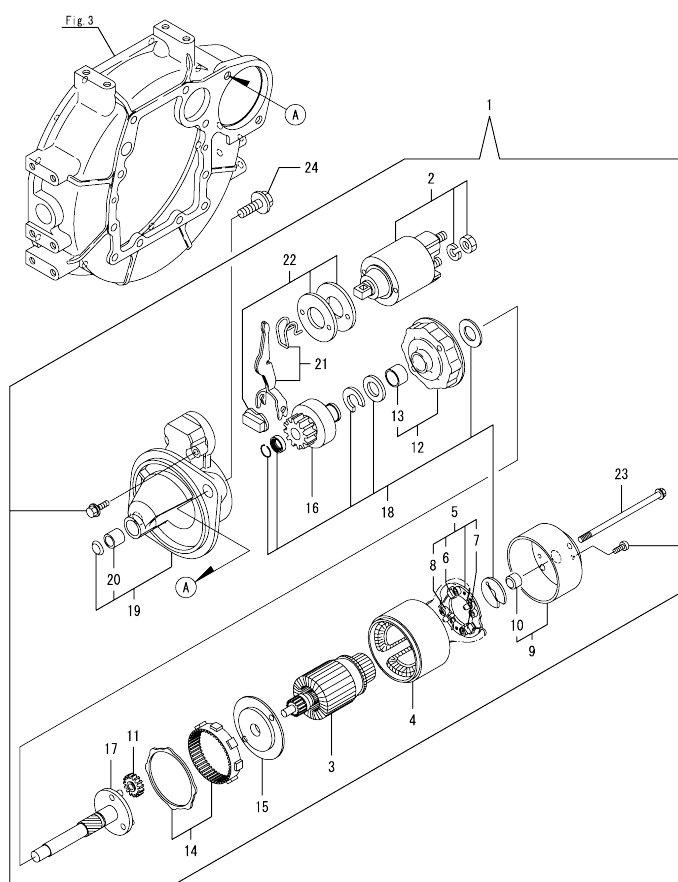


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729246-53200	VALVE ASSY,INJECTION	3							
2	2	129246-53001	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
11	2	114250-53120	SPRING, NOZZLE	3							
12	2	114250-53130	SEAT, SPRING	3							
13	2	114250-53140	PLATE	3							
14	2	114250-53210	PIN	6							
15	2	119803-53400	SHIM SET	3							
42	1	119305-59120	RETAINER, PIPE	1							
45	2	129150-59131	BOLT, M4X14	1							
46	1	129150-59120	RETAINER, PIPE	1							
49	2	129150-59131	BOLT, M4X14	2							
51	1	119802-59960	PIPE ASSY, INJECTION	1							
55	1	119802-59970	PIPE ASSY, INJECTION	1							
59	1	119802-59980	PIPE ASSY, INJECTION	1							
64	1	119802-59550	PIPE ASSY, RETURN	1							
65	2	124722-59050	CLIP, HOSE 9	2							
66	2	119802-59560	PIPE, FUEL RETURN	1							
67	1	129486-59551	PIPE ASSY, RETURN	2							
68	2	124722-59050	CLIP, HOSE 9	4							
70	1	119593-59581	CAP	1							
71	1	124060-77680	CLIP, HOSE 10	1							

Fig.14. FUEL LINE

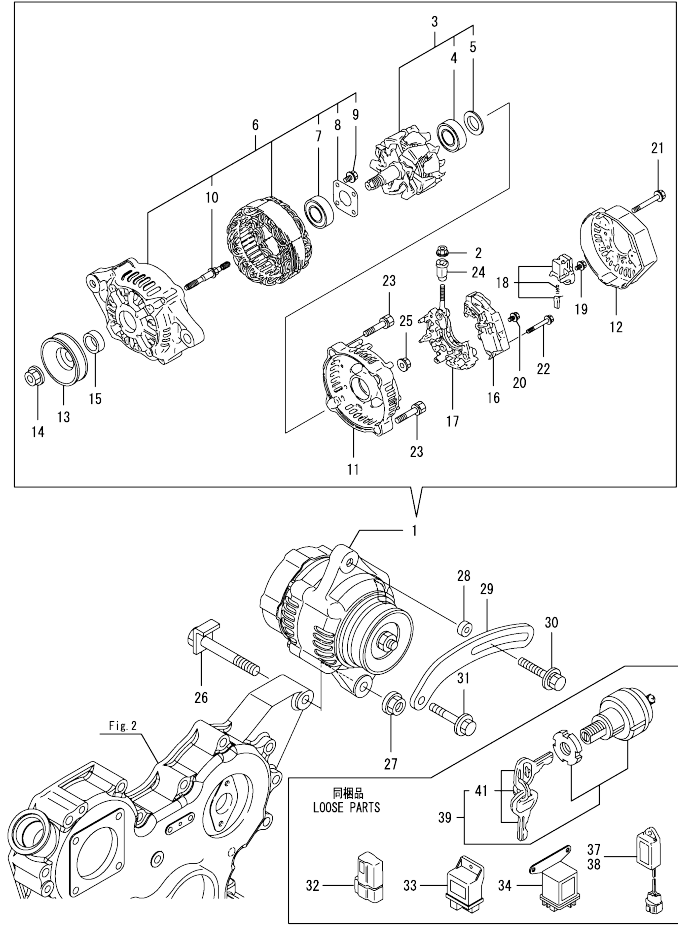


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	119802-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129044-59010	PIPE, D13/7.5X220	1							
5	2	124766-59050	CLIP, HOSE 12	2							
6	2	129044-59100	TUBE, CORRUGATED	1							
7	2	129044-59510	PIPE, FUEL 220	1							
8	1	129630-59010	PIPE ASSY, FUEL	1							
9	2	124766-59050	CLIP, HOSE 12	2							
10	2	129961-59110	TUBE, CORRUGATED	1							
11	2	105025-59560	PIPE, FUEL	1							
12	1	121750-59890	BAND, 140	1							
13	1	114110-07761	LABEL, FUEL OIL CAUT	1							
14	1	129612-52100	PUMP ASSY, FUEL FEED	1							
15	1	129242-55701	SEPARATOR ASSY	1							
16	2	129242-55720	CUP	1							
17	2	129242-55730	ELEMENT	1							
18	2	129242-55740	PLUG, DRAIN	1							
19	2	129242-55750	VALVE, AIR VENT	1							
20	2	129242-55760	GASKET	1							
21	2	129242-55770	FLOAT	1							
22	2	24311-000160	O-RING, 1AP16.0	1							
23	2	24321-000750	O-RING, 1AG75.0	1							



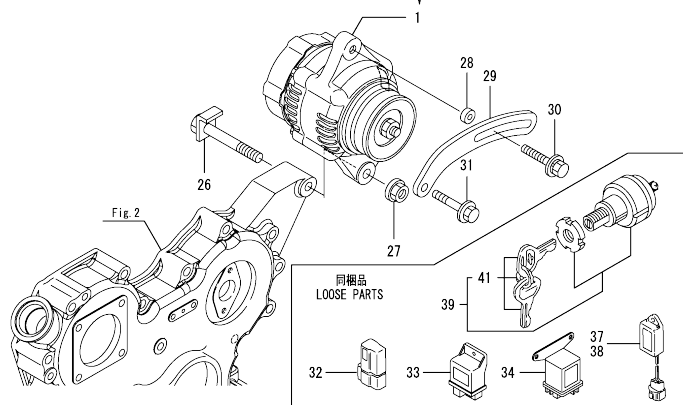
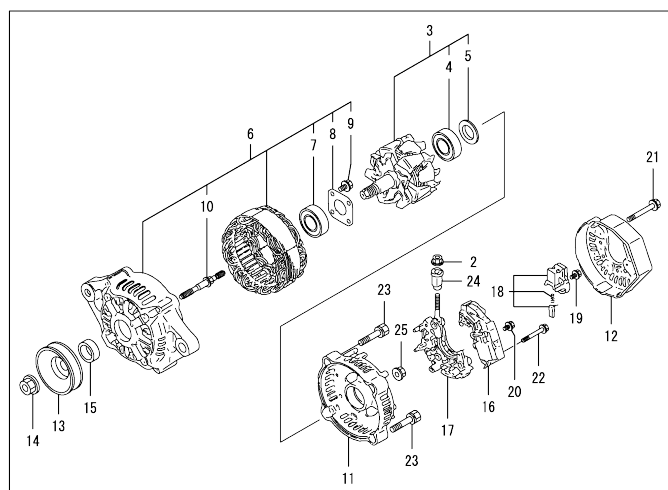
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129242-77010	STARTER	1							
2	2	129698-77020	SWITCH ASSY	1							
3	2	129242-77100	ARMATURE ASSY	1							
4	2	129242-77110	YOKE ASSY	1							
5	2	129242-77120	HOLDER ASSY, BRUSH	1							
6	3	129242-77130	BRUSH	2							
7	3	129242-77140	BRUSH SET	1							
8	3	129242-77150	SPRING	4							
9	2	129242-77160	COVER ASSY	1							
10	3	129242-77170	METAL	1							
11	2	118400-77170	GEAR	3							
12	2	129242-77180	BRACKET	1							
13	3	129698-77190	BRACKET	1							
14	2	129698-77200	GEAR, INTERNAL	1							
15	2	129242-77210	BRACKET	1							
16	2	129698-77220	PINION ASSY	1							
17	2	129698-77230	SHAFT	1							
18	2	129698-77250	WASHER SET	1							
19	2	129242-77260	CASE ASSY	1							
20	3	X2114535200	METAL, STARTER	1							
21	2	129242-77270	LEVER SET	1							
22	2	129242-77280	COVER ASSY, DUST	1							
23	2	124195-77770	BOLT, THROUGH	2							
24	1	26106-120252	BOLT, M12X 25 PLATED	2							

Fig.16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-77210 (A=E96287)	ALTERNATOR, 12V-55A	1							Z
2	2	X9490561001	NUT	1							Z
3	(A=E96287) 2	129052-77380 (A=E96287)	ROTOR ASSY	1							Z
4	3	123501-79240 (A=E96287)	BEARING, BALL	1							Z
5	3	119620-79250	COVER	1							Z
6	(A=E96287) 2	129052-77422 (A=E96287)	FRAME ASSY	1							Z
7	3	119620-79200 (A=E96287)	BEARING, BALL	1							Z
8	3	119620-79210	PLATE, RETAINER	1							Z
9	(A=E96287) 3	119620-79220 (A=E96287)	SCREW	4							Z
10	3	119620-79230 (A=E96287)	STUD	2							Z
11	2	128401-77440	FRAME	1							Z
12	(A=E96287) 2	119626-77450 (A=E96287)	COVER	1							Z
13	2	119620-77461 (A=E96287)	PULLEY	1							Z
14	2	119620-77471	NUT	1							Z
15	(A=E96287) 2	119620-77490 (A=E96287)	COLLAR	1							Z
16	2	119626-77710	REGULATOR ASSY	1							Z
17	(A=E96287) 2	129052-79260 (A=E96287)	HOLDER	1							Z
18	(A=E96287) 2	129052-79270 (A=E96287)	HOLDER, BRUSH	1							Z
19	2	119620-79290 (A=E96287)	SCREW	6							Z
20	2	119620-79300	SCREW	1							Z
21	(A=E96287) 2	119620-79310 (A=E96287)	BOLT	3							Z
22	2	119620-79320 (A=E96287)	SCREW	2							Z
23	2	119620-79330	BOLT	2							Z
24	(A=E96287) 2	119620-79340 (A=E96287)	BUSH, INSULATION	1							Z
25	2	119620-79350 (A=E96287)	NUT	2							Z
26	1	119740-77251	BOLT, M10X80	1							Z

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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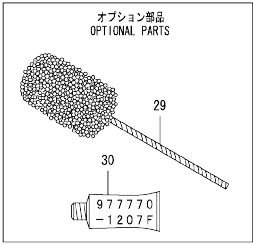
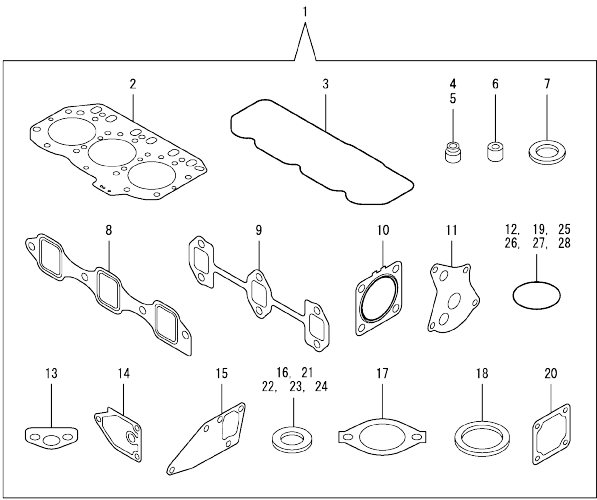
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No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I R
27	1	(A=E96287) 26306-100002	NUT, M10	1						Z
28	1	(A=E96287) 119940-77270	SPACER, GENERATOR	1						Z
29	1	(A=E96287) 119802-77330	ADJUSTER	1						
30	1	129972-77341	BOLT, ADJUSTER L=50	1						Z
31	1	(A=E96287) 26106-080452	BOLT, M8X 45 PLATED	1						
32	1	119643-66900	DIODE	1						
33	1	119802-77200	RELAY, SAFETY	1						
34	1	119650-77911	RELAY ASSY, GLOW	1						
37	1	128300-77920	TIMER	1						
38	1	129211-77920	TIMER	1						
39	1	933110-00100	SWITCH ASSY, STARTER	1						W
41	2	(A=E96287) 933110-00301	KEY ASSY	1						W

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.17. GASKET SET



Remarks
(1)Optional parts.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119936-92610	GASKET SET	1							1
2	2	119812-01330	GASKET, HEAD	1							
3	2	119802-11310	GASKET, BONNET	1							
4	2	119803-11340	SEAL, VALVE STEM	3							
5	2	124160-11340	SEAL, VALVE STEM	3							
6	2	119802-11870	PROTECTOR, NOZZLE	3							
7	2	119625-11880	SEAT, NOZZLE	3							
8	2	119810-12112	GASKET, MANIFOLD	1							
9	2	119810-13110	GASKET	1							
10	2	129004-13200	GASKET, SILENCER	1							
11	2	129150-32020	GASKET, PUMP	1							
12	2	119609-32040	O-RING, P16	2							
13	2	129150-35042	GASKET	1							
14	2	129150-35111	GASKET	1							
15	2	129486-42050	GASKET, WATER PUMP	1							
16	2	124465-44950	GASKET, 16	2							
17	2	129795-49551	GASKET	1							
18	2	129150-49811	GASKET, THERMOSTAT	1							
19	2	121850-51960	O-RING	1							
20	2	129150-77511	GASKET	1							
21	2	22190-080002	WASHER, SEAL 6	7							
22	2	22190-100002	WASHER, SEAL 10	2							
23	2	22190-220002	WASHER, SEAL 22	1							
24	2	23414-080000	GASKET, 8X1.0	1							
25	2	24311-000120	O-RING, 1AP12.0	3							
26	2	24311-000320	O-RING, 1AP32.0	1							
27	2	24316-240100	O-RING, 4DP10A	1							
28	2	24341-000240	O-RING, 1AS24.0	1							
29	1	129400-92420	HONE	1							1
30	1	977770-1207F	GASKET,LIQUID	1							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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Parts No.	Fig. No.	Ref. No.
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104211-11370	4	12
105025-59560	14	11
114110-07761	14	13
114250-39450	9	33
114250-53080	13	5
114250-53120	13	11
114250-53130	13	12
114250-53140	13	13
114250-53210	13	14
118400-77170	15	11
119131-18320	6	5
119233-77932	12	119
119260-34810	9	16
119305-59120	13	42
119593-59581	13	70
119609-32040	2	9
	17	12
119620-01750	3	3
119620-02020	1	9
119620-77461	16	13
119620-77471	16	14
119620-77490	16	15
119620-79200	16	7
119620-79210	16	8
119620-79220	16	9
119620-79230	16	10
119620-79250	16	5
119620-79290	16	19
119620-79300	16	20
119620-79310	16	21
119620-79320	16	22
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119620-79340	16	24
119620-79350	16	25
119625-11880	4	28
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119626-77210	16	1
119626-77450	16	12
119626-77710	16	16
119640-01640	3	8
119643-66900	16	32
119650-77911	16	34
119660-61901	12	61
119717-02930	1	15
119740-77251	16	26
119802-01561	2	5
119802-03010	4	37
119802-03090	5	1
119802-03110	4	39

Parts No.	Fig. No.	Ref. No.
119802-03121	4	40
119802-03130	4	41
119802-03141	4	42
119802-11100	4	19
119802-11110	4	20
119802-11241	4	1
119802-11251	4	2
119802-11260	4	4
119802-11270	4	5
119802-11280	4	6
119802-11310	4	44
	17	3
119802-11350	4	36
119802-11650	4	8
119802-11810	4	55
119802-11870	4	27
	17	6
119802-11900	4	29
119802-12130	5	4
119802-13129	6	2
119802-13640	6	4 -1
119802-13740	6	3 -1
119802-14580	7	3
119802-21650	8	8
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119802-42001	10	1
119802-49610	10	36
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119802-49711	10	37
119802-49721	10	42
119802-49730	10	38
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119802-51250	11	133
119802-51560	11	62
119802-51590	11	68
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119802-51690	11	74
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119802-59320	10	40
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119803-53400	13	15
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119810-02871	1	32
119810-02941	1	35
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119810-13110	6	1
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119810-23601	8	27
119810-23611	8	30
119810-23910	8	29
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119810-42051	10	3
119810-42120	10	4
119810-42281	10	8
119810-42290	10	9
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124060-77680	13	71
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124160-01751	2	6
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124160-11340	4	24
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124160-11360	4	47
124160-39140	9	34
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124240-01871	2	7
124465-44950	10	34
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124766-59050	14	5
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128300-77920	16	37
128401-77440	16	11
129001-01250	1	5
129001-32001	9	1
129004-13200	6	7
	17	10
129004-55612	14	1
129005-59830	9	36
129008-51390	11	44
129008-51900	11	14
129008-51920	11	15
129008-77800	4	52
129044-59010	14	4
129044-59100	14	6
129044-59510	14	7
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129150-03070	4	38
129150-11230	4	9
129150-11280	4	7
129150-11750	4	11
129150-14101	7	6
129150-14200	7	1
129150-25301	7	14
129150-32020	9	14
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129150-35042	9	21
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129150-35111	9	30
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129150-59120	13	46
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129242-55730	14	17
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129242-55770	14	21
129242-77010	15	1
129242-77100	15	3
129242-77110	15	4
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158601-51650	11	5
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26106-080302	2	15
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26306-080002	2	18
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26366-060002	9	41
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27241-300000	1	14
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719803-22900	8	32
719810-02981	1	29
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719935-51391	11	1
729246-53200	13	1
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