

0CV10-M54401EN

P R E F A C E

1. This parts catalog is the 2nd edition of 3TNE68-HT for HWASUNG THERMO.

Pub.No. : 0CV10-G54401

Published : February, 2013

2. Model name

Engine model	Vehicle	Vehicle made by
3TNE68-HT	REFRIGERATOR	HWASUNG THERMO

Directions for the Parts Catalog.

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

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

① Ref. No.

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

(Ex.) Illustration No.

List Ref No.

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

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

② Lev. (Level)

Level indication

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

1 ---- Main parts (Assembly parts)

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

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

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

③ Interchangeability Symbol

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

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No	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) A date may follow the symbol. (Ex.) 1996.01

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

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

⑤ Remarks

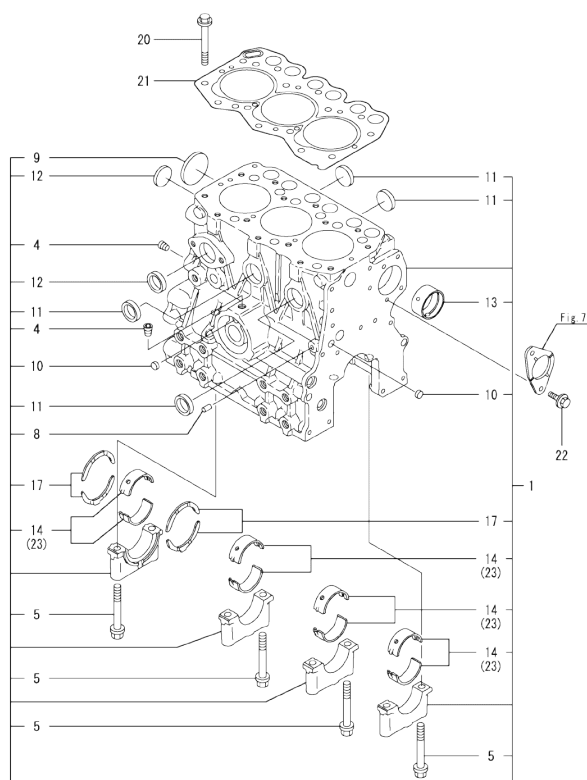
Figures or alphabets (symbols) are entered in the remarks column.

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

Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE68-HT			
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3.	MOUNTING FLANGE & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
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		

Fig.1. CYLINDER BLOCK



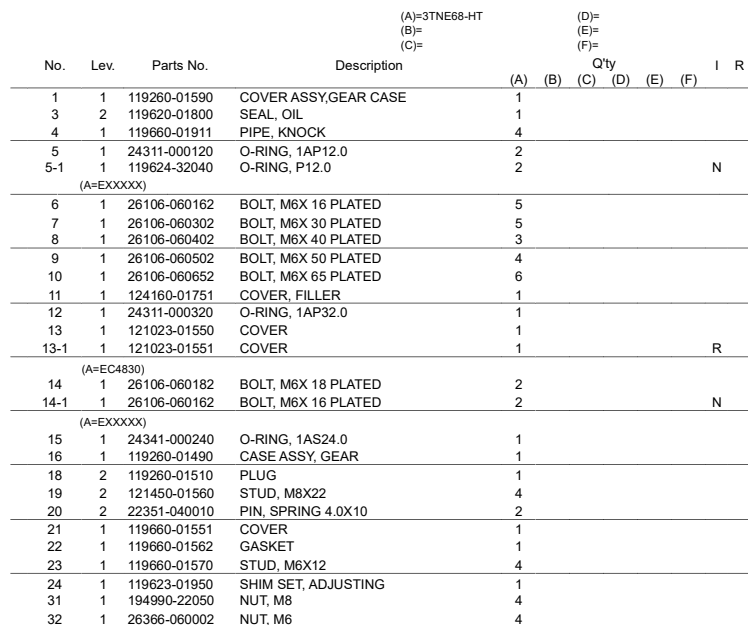
Remarks

(1) Under-sized (U.S.=0.25) part.

				(A)=3TNE68-HT (B)= (C)=				(D)= (E)= (F)=			
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I	R
1	1	719265-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	2							
5	2	119260-02020	BOLT, METAL CAP	8							
8	2	27221-060100	PLUG, 6X10	1							
9	2	27231-400000	PLUG 40	1							
9-1	2	119265-01250	PLUG, 40	1						N	
(A)=XXXXXX)											
10	2	27241-100000	PLUG, 10	2							
11	2	27241-250000	PLUG, 25	4							
12	2	27241-300000	PLUG 30	2							
13	2	119266-02410	BUSH	1							
14	2	119260-02800	BEARING, MAIN	4							
17	2	119260-02930	BEARING, THRUST	2							
20	1	119266-01200	BOLT, HEAD	14							
21	1	119265-01341	GASKET, HEAD	1							
22	1	26106-060122	BOLT, M6X 12 PLATED	2							
23	1	719260-02870	BEARING, 0.25 US	4							1

N:Old $\xrightarrow{\text{YES}}$ New. Q:Old $\xrightarrow{\text{NO}}$ New. R:Old $\xrightarrow{\text{YES}}$ New. S:Old $\xrightarrow{\text{NO}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

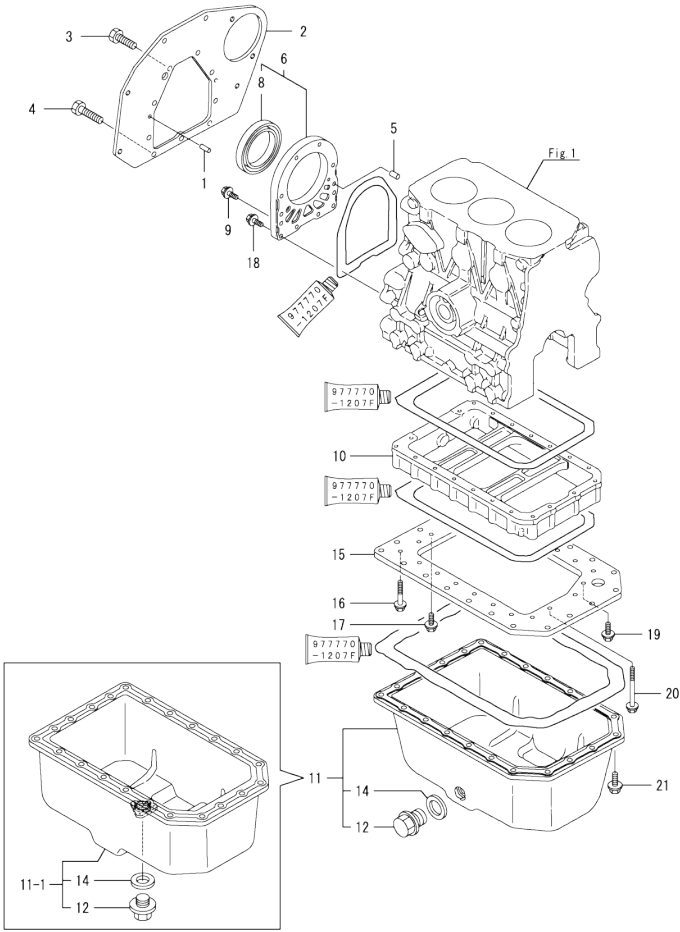
Fig.2. GEAR HOUSING



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.3. MOUNTING FLANGE & OIL SUMP

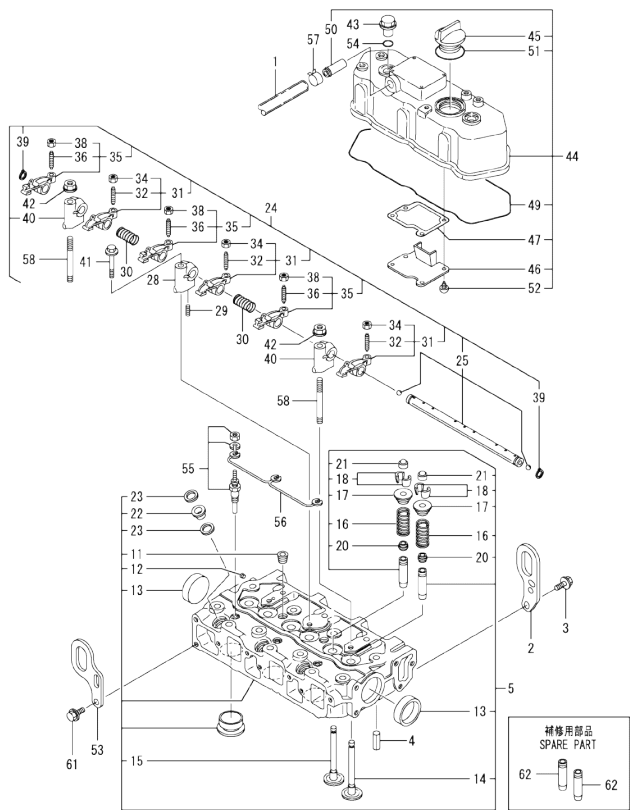


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	119285-01600	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	6							
4	1	26206-100252	BOLT, M10X 25 PLATED	3							
5	1	119620-01620	PIN, M6X10	2							
6	1	119660-01640	CASE ASSY, OIL SEAL	1							
8	2	124085-02220	SEAL, OIL	1							
9	1	26106-060222	BOLT, M6X 22 PLATED	6							
10	1	119454-01721	SPACER, OIL SUMP	1							
11	1	119810-01770	SUMP ASSY, OIL	1							
11-1	1	119823-01770	SUMP ASSY, OIL	1							N
(A=E77301)											
12	2	119640-01640	PLUG, DRAIN M22	1							
14	2	22190-220002	WASHER, SEAL 22	1							
15	1	119285-01800	PLATE, OIL SUMP	1							
16	1	26106-060452	BOLT, M6X 45 PLATED	17							
17	1	26106-060142	BOLT, M6X 14 PLATED	2							
18	1	119285-01580	BOLT, M46X22	4							
19	1	26106-060202	BOLT, M6X 20 PLATED	1							
20	1	26106-060552	BOLT, M6X 55 PLATED	3							
21	1	26106-080102	BOLT, M8X 10 PLATED	22							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{R/O}{YES}$ 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.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119285-03140	PIPE , BREATHER	1							
2	1	119260-07900	LIFTER	1							
2-1	1	119626-07900	LIFTER	1						N	
(A=EB9660)											
3	1	26106-080142	BOLT, M8X 14 PLATED	1							
4	1	22351-060012	PIN, SPRING 6.0X12	2							
5	1	119265-11700	HEAD ASSY, CYLINDER	1							
11	2	23871-030000	PLUG, R03	2							
11-1	2	23876-030000	PLUG, R03	2						N	
(A=EXXXXX)											
12	2	27221-050080	PLUG, 5X 8	1							
13	2	27241-350000	PLUG, 35	2							
14	2	119260-11100	VALVE, INTAKE	3							
15	2	119260-11110	VALVE, EXHAUST	3							
16	2	114250-11120	SPRING, VALVE	6							
17	2	114250-11180	RETAINER, SPRING	6							
18	2	714250-11570	COTTER ASSY	6							
20	2	119260-11340	SEAL, VALVE STEM	6							
20-1	2	119260-11341	SEAL, VALVE STEM	6						N	
(A=EE0285)											
21	2	119260-11370	CAP, VALVE	6							
22	2	119600-11450	PROTECTOR, NOZZLE	3							
23	2	119600-11460	GASKET, NOZZLE	6							
24	1	119260-11200	SUPPORT ASSY, ARM	1							
25	2	119260-11240	SHAFT ASSY, ROCKER	1							
28	2	119260-11260	SUPPORT, ROCKER ARM	1							
29	2	119260-11270	SCREW	1							
30	2	119260-11280	SPRING	2							
31	2	719260-11650	ARM ASSY, ROCKER	3							
32	3	105010-11230	SCREW, VALVE ADJUST	3							
34	3	26756-060002	NUT, LOCK M6	3							
35	2	719260-11660	ARM ASSY, ROCKER	3							
36	3	105010-11230	SCREW, VALVE ADJUST	3							
38	3	26756-060002	NUT, LOCK M6	3							
39	2	22242-000100	RING, 10	2							
40	2	119265-11260	SUPPORT, ROCKER ARM	2							
41	1	26106-080452	BOLT, M8X 45 PLATED	1							
42	1	26366-080002	NUT, M8	2							
42-1	1	26306-080002	NUT, M8	2						N	
(A=EXXXXX)											
43	1	124160-11360	KNOB	2							
44	1	119260-11330	BONNET ASSY, HEAD	1							
44-1	1	119260-11331	BONNET ASSY, HEAD	1						N	
(A=EXXXXX)											
46	2	119260-03020	PLATE, SHELTER	1							
47	2	119260-03031	GASKET	1							
49	2	119260-11310	GASKET, BONNET	1							
50	2	119620-11390	JOINT	1							
50-1	2	118400-03060	JOINT, BREATHER	1							R
(A=EXXXXX)											
52	2	22857-500100	SCREW, 5X10	4							

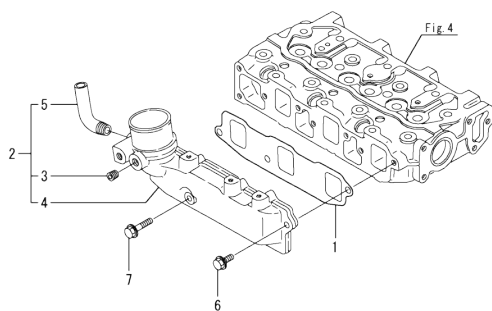
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.4. CYLINDER HEAD & BONNET



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 $\xrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD & AIR CLEANER



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119270-12110	GASKET, MANIFOLD	1							
2	1	119285-12730	MANIFOLD ASSY,INTAKE	1							
3	2	119285-01730	PLUG, NPT1/8	1							
3-1	2	119285-01731	PLUG, NPT1/8	1						N	
		(A)=EA8579									
4	2	119285-12100	MANIFOLD, AIR INTAKE	1							
5	2	121500-12790	JOINT, PIPE PT1/4	1							
6	1	26106-060162	BOLT, M6X 16 PLATED	2							
7	1	26106-060282	BOLT, M6X 28 PLATED	1							
8	1	119233-12540	CLEANER ASSY, AIR	1							
9	2	119808-12540	VALVE, UNLOADER	1							
10	2	119655-12560	ELEMENT	1							
11	2	105027-12570	COVER, AIR CREAMER	1							
12	2	105027-12580	RING	1							
13	2	119233-12670	BODY, AIR CLEANER	1							
14	1	119632-12211	PIPE, AIR INTAKE	1							
15	1	119655-12560	ELEMENT	1							

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

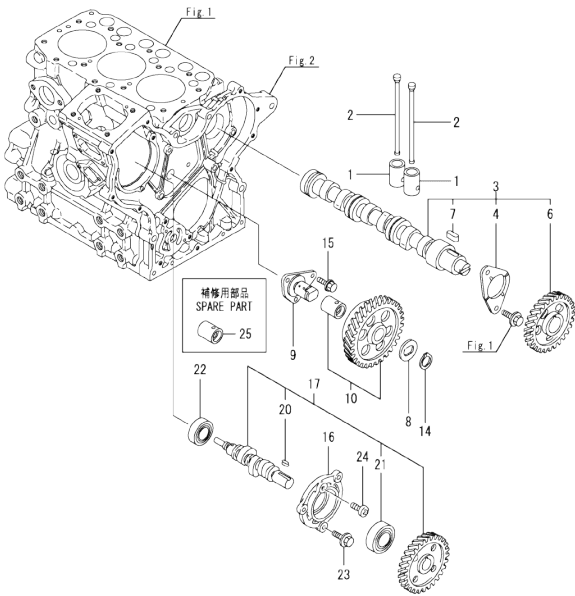
Fig.6. EXHAUST MANIFOLD

[illegible]

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

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Fig.7. CAMSHAFT & DRIVING GEAR

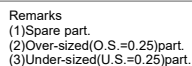


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-14200	TAPPET	6							
2	1	119260-14400	ROD, PUSH	6							
3	1	119260-14580	CAMSHAFT ASSY	1							
4	2	119620-02450	BEARING, THRUST	1							
6	2	119260-14100	GEAR, CAMSHAFT	1							
7	2	22512-040120	KEY, 4X 12	1							
8	1	119660-25022	RETAINER	1							
9	1	119660-25052	SHAFT, IDLE	1							
10	1	119260-25100	GEAR ASSY, IDLE	1							
14	1	22242-000200	RING, 20	1							
15	1	26106-060122	BOLT, M6X 12 PLATED	3							
16	1	119660-01821	BEARING, FUEL CAM	1							
17	1	119225-14200	CAM ASSY	1							
20	2	22512-040120	KEY, 4X 12	1							
21	2	24102-063034	BEARING, BALL 6303U	1							
22	1	24101-062034	BEARING, BALL 6203	1							
23	1	26106-060162	BOLT, M6X 16 PLATED	3							
24	1	26587-080102	SCREW, M8X10	1							
25	1	119620-25912	BUSH	1							1

Remarks
(1)Spare part.

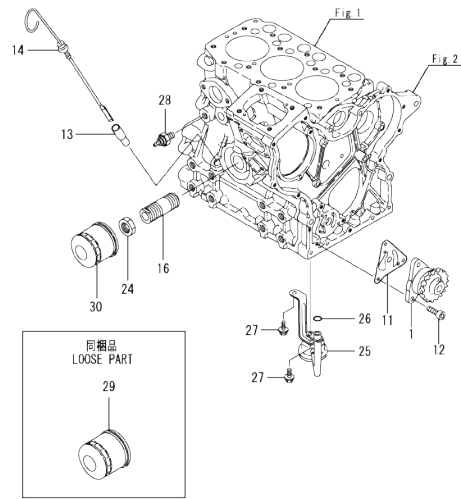
N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{YES}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.8. CRANKSHAFT & PISTON



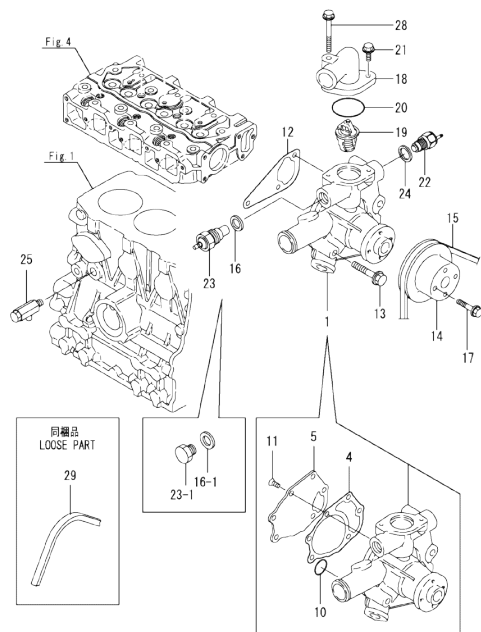
N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.9. LUB. OIL SYSTEM



No.	Lev.	Parts No.	Description	(A)=3TNE68-HT (B)= (C)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-32000	PUMP ASSY, OIL	1							
11	1	119660-32020	GASKET, PUMP	1							
12	1	26450-060202	BOLT, M6X 20	3							
13	1	121520-34810	GUIDE, DIPSTICK	1							
14	1	119600-34820	DIPSTICK, OIL	1							
16	1	119225-35300	VALVE ASSY, CONTROL	1							
24	1	129150-35350	NUT	1							
25	1	119260-35081	PIPE, OIL INLET	1							
26	1	119209-35030	O-RING, P11	1							
27	1	26106-060122	BOLT, M6X 12 PLATED	2							
27-1	1	26106-060102	BOLT, M6X 10 PLATED	2						N	
(A=EXXXXX)											
28	1	124160-39450	SWITCH, 0.5KG	1							
28-1	1	114250-39450	SWITCH, 0.5KG	1							N
(A=EXXXXX)											
29	1	119305-35151	FILTER ASSY, D68XL65	1							
30	1	119305-35151	FILTER ASSY, D68XL65	1							1

Fig.10. COOLING WATER SYSTEM

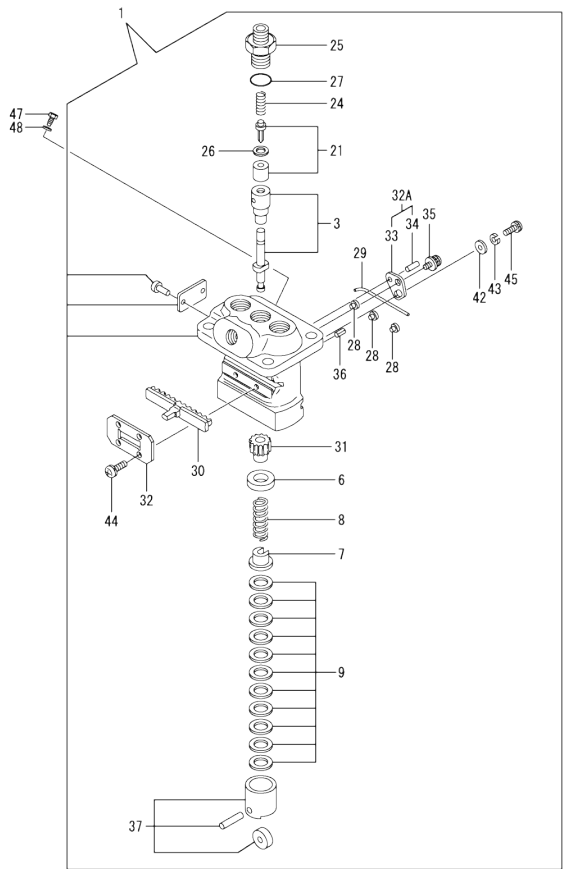


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-42002	PUMP ASSY, WATER	1							
1-1	1	119260-42003	PUMP ASSY, WATER	1						N	
(A=EXXXXX)											
1-2	1	119260-42004	PUMP ASSY, WATER	1							R
(A=EXXXXX)											
4	2	119260-42051	GASKET, WATER PUMP	1							
4-1	2	119285-42052	GASKET	1						N	
(A=EXXXXX)											
4-2	2	119285-42051	GASKET, WATER PUMP	1						N	
(A=EXXXXX)											
5	2	119260-42120	PLATE	1							
5-1	2	119285-42120	PLATE	1						N	
(A=EXXXXX)											
10	2	119225-42320	O-RING	1							
10-1	2	119209-42320	O-RING, P21 EPDM	1						N	
(A=EXXXXX)											
11	2	26577-060122	SCREW, M6X12	3							
12	1	119260-42020	GASKET, WATER PUMP	1							
12-1	1	119260-42021	GASKET, WATER PUMP	1						N	
(A=EXXXXX)											
13	1	26106-080452	BOLT, M8X 45 PLATED	3							
14	1	119620-42350	V-PULLEY	1							
15	1	104514-42780	V-BELT, HM33	1							
15-1	1	25137-003300	V-BELT, M33	1							R
(A=EXXXXX)											
15-2	1	25137-003300	V-BELT, M33	1							Z
(A=ED2478)											
16	1	129150-49360	GASKET	1							
16-1	1	124465-44950	GASKET, 16	1						F	1
(A=E92246)											
17	1	26106-060122	BOLT, M6X 12 PLATED	4							
18	1	119256-49530	COVER, THERMOSTAT	1							
18-1	1	119256-49531	COVER, THERMOSTAT	1						N	
(A=EXXXXX)											
19	1	119260-49800	THERMOSTAT, 71	1							
19-1	1	119260-49801	THERMOSTAT, 71	1						N	
(A=EXXXXX)											
20	1	24321-000350	O-RING, 1AG35.0	1							
20-1	1	119209-42140	O-RING, G 35	1						N	
(A=EXXXXX)											
21	1	26106-060162	BOLT, M6X 16 PLATED	1							
22	1	121250-44901	SWITCH, 110	1							
23	1	124250-49351	SENSOR	1							
23-1	1	121450-42450	PLUG, M16	1						F	1
(A=E92246)											
24	1	124465-44950	GASKET, 16	1							
25	1	119620-49290	COCK ASSY, 1/4	1							
28	1	26106-060552	BOLT, M6X 55 PLATED	1							
29	1	25137-003300	V-BELT, M33	1							W
(A=ED2478)											

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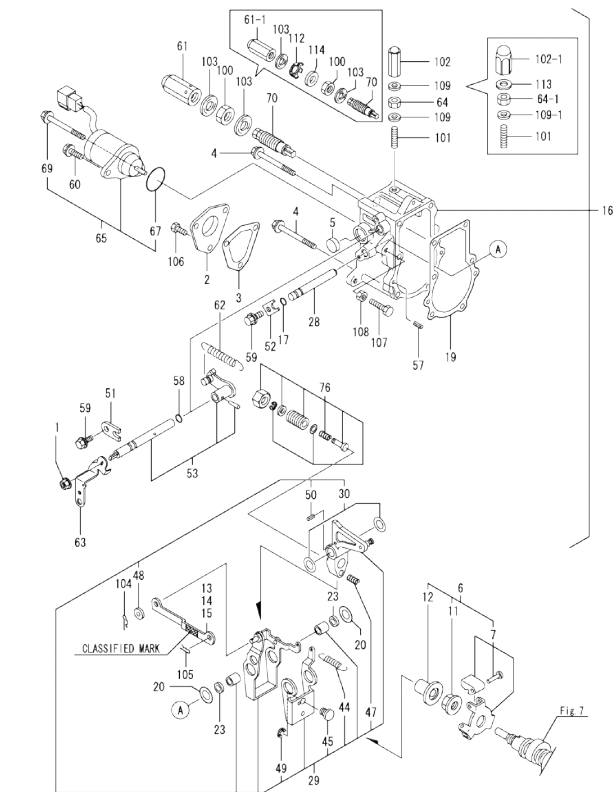
Fig.11. FUEL INJECTION PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719225-51100	PUMP ASSY, INJECTION	1							
1-1	1	719266-51100	PUMP ASSY, INJECTION	1							N
(A=EXXXXX)											
3	2	119225-51100	PLUNGER ASSY	3							
6	2	119620-51170	RETAINER, SPRING A	3							
7	2	119620-51180	RETAINER, SPRING B	3							
8	2	119620-51190	SPRING, PLUNGER	3							
9	2	119620-51250	SHIM SET	3							
21	2	119225-51300	VALVE ASSY, DELIVERY	3							
24	2	105546-51330	SPRING, DELIVERY	3							
25	2	119620-51340	HOLDER, DELIVERY	3							
26	2	119620-51350	GASKET	3							
27	2	119620-51370	O-RING	3							
27-1	2	24316-000125	O-RING, 4DP12.5	3							N
(A=EXXXXX)											
28	2	119620-51450	PIECE	3							
29	2	119620-51461	PIN	1							
30	2	119660-51500	RACK, CONTROL	1							
31	2	119620-51510	PINION	3							
32	2	119660-51530	RETAINER, RACK	1							
32A	2	119620-51640	PLATE ASSY, ADJUST	2							
33	3	119620-51650	PLATE	2							
34	3	119620-51670	PIN	2							
35	2	119620-51660	SCREW	2							
36	2	119620-51680	PIN	1							
37	2	119620-51700	TAPPET ASSY	3							
42	2	22137-040000	WASHER, 4	2							Z
(A=EXXXXX)											
43	2	22217-040000	WASHER, SPRING 4	2							Z
(A=EXXXXX)											
44	2	26022-040082	SCREW, M4X 8	4							
45	2	26587-040102	SCREW, M4X10	2							
45-1	2	26033-040102	SCREW, M4X10	2							R
(A=EXXXXX)											
47	1	119266-51900	BOLT	1							W
(A=EXXXXX)											
47-1	1	119266-51900	BOLT	1							Z
(A=E80640)											
48	1	22190-080002	WASHER, SEAL 6	1							W
(A=EXXXXX)											
48-1	1	22190-080002	WASHER, SEAL 6	1							Z
(A=E80640)											

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Fig.12. GOVERNOR



Remarks
(1)Selective parts, mark; no mark
(2)Selective parts, mark; 2
(3)Selective parts, mark; A
(4)Selective parts, mark; 3
(5)Selective parts, mark; B
(6)Material=Ref.19 SF-8500,19-1 GRC.

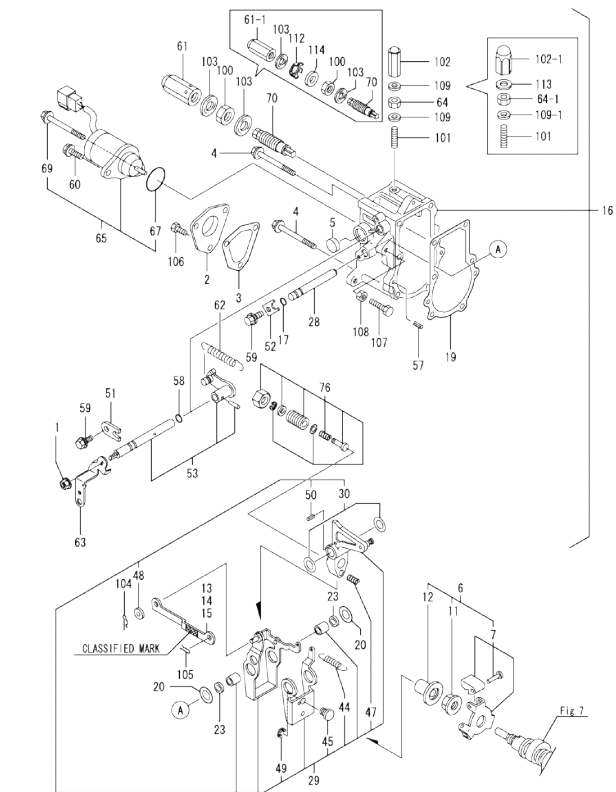
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22050	NUT, M8	1							
1-1	1	26366-080002	NUT, M8	1							R
(A=EXXXXX)											
2	1	119660-61060	COVER, GOVERNOR CASE	1							
3	1	119660-61071	GASKET	1							
4	1	26106-060702	BOLT, M6X 70 PLATED	5							
5	1	119640-61400	PLUG	1							Z
(A=EXXXXX)											
6	1	119600-61100	DRIVE ASSY	1							
7	2	119600-61200	WEIGHT ASSY,GOVERNOR	1							
11	2	119660-61300	NUT	1							
11-1	2	129008-61301	NUT	1							R
(A=EXXXXX)											
12	2	119660-61341	SLEEVE	1							
13	1	119660-61121	LINK, NO MARK	1							1
13-1	1	119660-61122	LINK, NO MARK	1							R 1
(A=EXXXXX)											
14	1	119660-61140	LINK, MARK :2	1							2
14-1	1	119660-61141	LINK, MARK A	1							R 3
(A=EXXXXX)											
15	1	119660-61150	LINK, MARK :3	1							4
15-1	1	119660-61151	LINK, MARK :B	1							R 5
(A=EXXXXX)											
16	1	119632-61200	CASE ASSY, GOVERNOR	1							
17	2	129155-61280	O-RING, S6	1							
19	2	119660-61052	GASKET	1							
19-1	2	119660-61053	GASKET	1							S 6
(A=EXXXXX)											
19-2	2	119660-61054	GASKET	1							R
(A=EXXXXX)											
20	2	119660-61460	SHIM SET	1							
20-1	2	129156-61500	SHIM, T=0.5	1							N
(A=EXXXXX)											
23	2	129155-61480	SPACER ASSY	2							
23-1	2	119632-61500	SHIM SET	1							N
(A=EXXXXX)											
28	2	119660-61491	SHAFT	1							
28-1	2	119660-61590	SHAFT	1							N
(A=EXXXXX)											
29	2	119232-61510	LEVER ASSY, GOVERNOR	1							
30	3	174307-51700	SHIM SET	2							
44	3	119232-61540	SPRING	1							
45	3	119600-61540	SHIFTER	1							
45-1	3	129100-61540	SHIFTER	1							N
(A=ED9482)											
47	3	119660-61651	SPRING, STARTING	1							
48	3	22117-040000	WASHER, 4	1							
49	3	22272-000040	RING, E- 4	1							
50	3	22351-030014	PIN, SPRING 3.0X14	1							
51	2	119600-61900	RETAINER, SHAFT	1							
52	2	119660-61901	RETAINER, SHAFT	1							

N:Old $\xrightarrow{\text{YES}}$ New, Q:Old $\xrightarrow{\text{YES}}$ New, R:Old $\xrightarrow{\text{YES}}$ New, S:Old $\xrightarrow{\text{YES}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.12. GOVERNOR

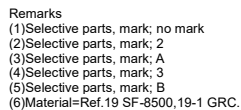


Remarks
(1)Selective parts, mark; no mark
(2)Selective parts, mark; 2
(3)Selective parts, mark; A
(4)Selective parts, mark; 3
(5)Selective parts, mark; B
(6)Material=Ref.19 SF-8500,19-1 GRC.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
53	2	119285-66080	SHAFT ASSY	1							
53-1	2	119285-66081	SHAFT ASSY,REGULATOR	1						N	
(A=ED9042)											
57	2	22351-040010	PIN, SPRING 4.0X10	2							
58	2	24341-000070	O-RING, 1AS7.0	1							
59	2	26106-060102	BOLT, M6X 10 PLATED	2							
60	1	121465-59950	BOLT, M6X16	1							
61	1	129100-61930	NUT, CAP	1							
61-1	1	26687-120002	NUT, CAP M12	1						S	
(A=E84541)											
62	1	119600-66020	SPRING, REGULATOR	1							
63	1	119621-66051	LEVER, REGULATOR	1							
64	1	124550-66370	NUT, M6	1							
64-1	1	26857-060002	NUT, M6	1						S	
(A=E84541)											
65	1	119653-66500	STOPPER ASSY	1							
67	2	24341-000280	O-RING, 1AS28.0	1							
67-1	2	158552-61900	O-RING	1						R	
(A=EXXXXX)											
69	2	26106-060952	BOLT, M6X 95 PLATED	1							
69-1	2	119620-01530	BOLT	1						N	
(A=EXXXXX)											
70	1	119600-66530	LIMITER ASSY, FUEL	1							
76	1	119654-66700	ANGLEICH ASSY	1							
100	1	26776-120002	NUT, LOCK M12	1							
100-1	1	26736-120002	NUT, M12	1						N	
(A=EXXXXX)											
100-2	1	129209-61920	NUT, ARB	1						N	
(A=EXXXXX)											
101	1	121575-66830	SCREW	1							
102	1	119600-66840	NUT, CAP	1							
102-1	1	119285-66600	NUT, CAP M6	1						S	
(A=E84541)											
103	1	22190-120002	WASHER, SEAL 12	2							
104	1	22360-040000	PIN, SNAP 4	1							
104-1	1	22417-120120	PIN, COTTER 1.2X12	1						R	
(A=EXXXXX)											
105	1	22360-060000	PIN, SNAP 6	1							
106	1	26116-050102	BOLT, M5X 10 PLATED	3							
106-1	1	26106-050102	BOLT, M5X 10 PLATED	3						N	
(A=EXXXXX)											
107	1	26116-060304	BOLT, M6X 30 PLATED	1							
107-1	1	119266-61460	BOLT	1						R	
(A=EXXXXX)											
108	1	26756-060002	NUT, LOCK M6	1							
109	1	22190-060003	SEAL WASER 6	2							
109-1	1	22190-060003	SEAL WASER 6	1						K	
(A=E84541)											
110	1	124250-03640	SCREW	1							
112	1	129209-61970	PLATE	1						W	
(A=E84541)											

N:Old $\frac{N_{old}}{100}$ New, Q:Old $\frac{Q_{old}}{100}$ New, R:Old $\frac{R_{old}}{100}$ New, S:Old $\frac{S_{old}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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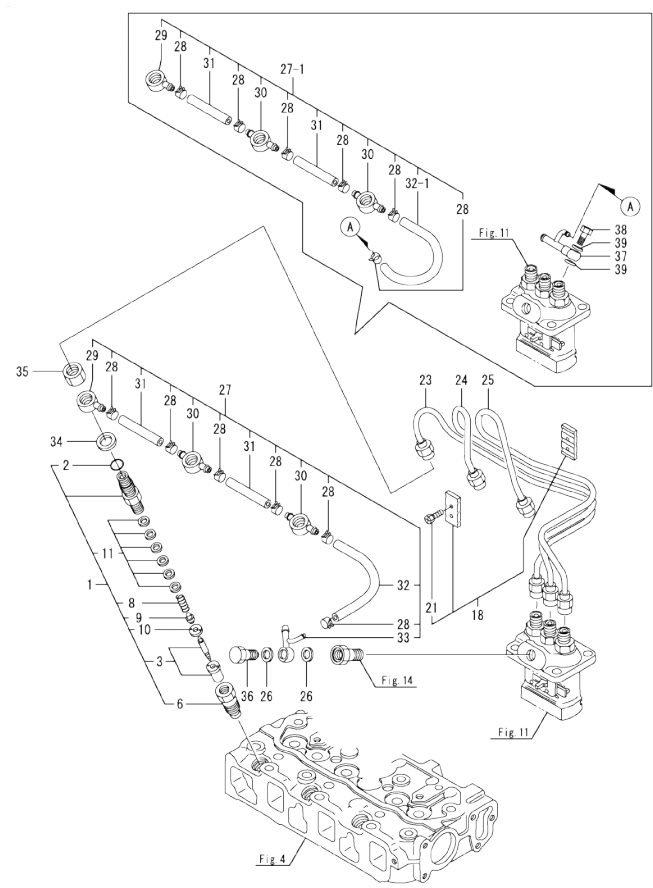
Fig.12. GOVERNOR

[illegible]

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

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Fig.13. FUEL INJECTION VALVE



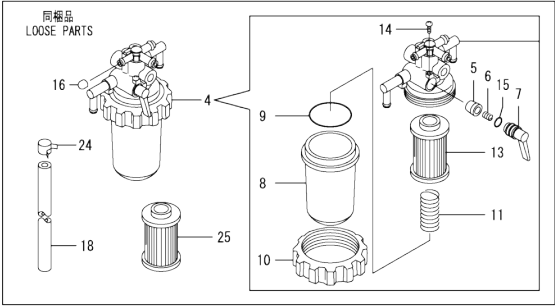
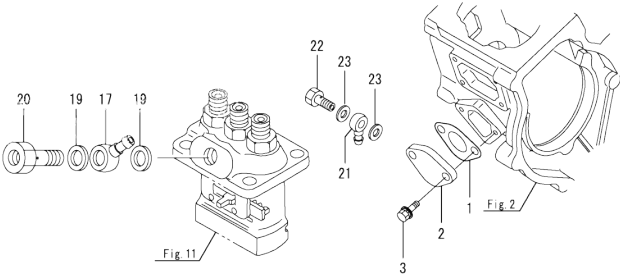
Remarks
(M)Misprint.

				(A)=3TNE68-HT (B)= (C)=							(D)= (E)= (F)=	Q'ty				I	R
No.	Lev.	Parts No.	Description		(A)	(B)	(C)	(D)	(E)	(F)							
1	1	719255-53100	VALVE ASSY,INJECTION		3												M
1-1	1	719620-53100	VALVE ASSY,INJECTION		3												
1-2	1	719255-53100	VALVE ASSY,INJECTION		3											N	
(A=EXXXXX)																	
2	2	129155-61830	O-RING, S10		3												N
2-1	2	158552-51930	O-RING, 4D S10		3												
(A=EXXXXX)																	
3	2	119620-53000	VALVE ASSY,INJECTION		3												
6	2	119620-53080	NUT, NOZZLE		3												
8	2	119620-53120	SPRING, NOZZLE		3												
9	2	114250-53130	SEAT, SPRING		3												
10	2	119620-53140	SPACER, VALVE STOP		3												
11	2	114250-53400	SHIM SET		3												
11-1	2	119803-53400	SHIM SET		3											R	
(A=EXXXXX)																	
18	1	129150-59120	RETAINER, PIPE		1												
21	2	129150-59131	BOLT, M4X14		2												
23	1	119209-59810	PIPE ASSY, INJECTION		1												
24	1	119209-59820	PIPE ASSY, INJECTION		1												
25	1	119209-59830	PIPE ASSY, INJECTION		1												
26	1	23414-080012	GASKET, 8X1.0		2												
26-1	1	22190-080002	WASHER, SEAL 6		2											N	
(A=EXXXXX)																	
26-2	1	22190-080002	WASHER, SEAL 6		2											Z	
(A=E80640)																	
27	1	119642-59540	PIPE ASSY, RETURN		1												S
27-1	1	119266-59540	PIPE ASSY, FUEL		1												
(A=E80640)																	
28	2	124066-59100	CLIP, HOSE 8		6												
29	2	119260-59520	JOINT		1												
30	2	119260-59530	JOINT		2												
31	2	105025-59550	PIPE, FUEL RETURN		2												
32	2	119642-59550	PIPE, FUEL RETURN		1												
32-1	2	119000-59560	PIPE, FUEL RETURN		1											S	
(A=E80640)																	
33	2	119642-59570	JOINT, OVER FLOW		1											Z	
(A=E80640)																	
34	1	23414-140000	GASKET, 14X1.0		3												N
34-1	1	22190-140002	WASHER, SEAL 14		3												
(A=EXXXXX)																	
35	1	119620-59700	NUT, NOZZLE		3												Z
36	1	124550-59820	BOLT, PIPE JOINT M8		1												
(A=E80640)																	
37	1	119266-59570	JOINT, OVER FLOW		1											W	
(A=EXXXXX)																	
38	1	119266-59580	BOLT, PIPE JOINT M8		1											W	
(A=EXXXXX)																	
39	1	22190-080002	WASHER, SEAL 6		2											W	
(A=EXXXXX)																	

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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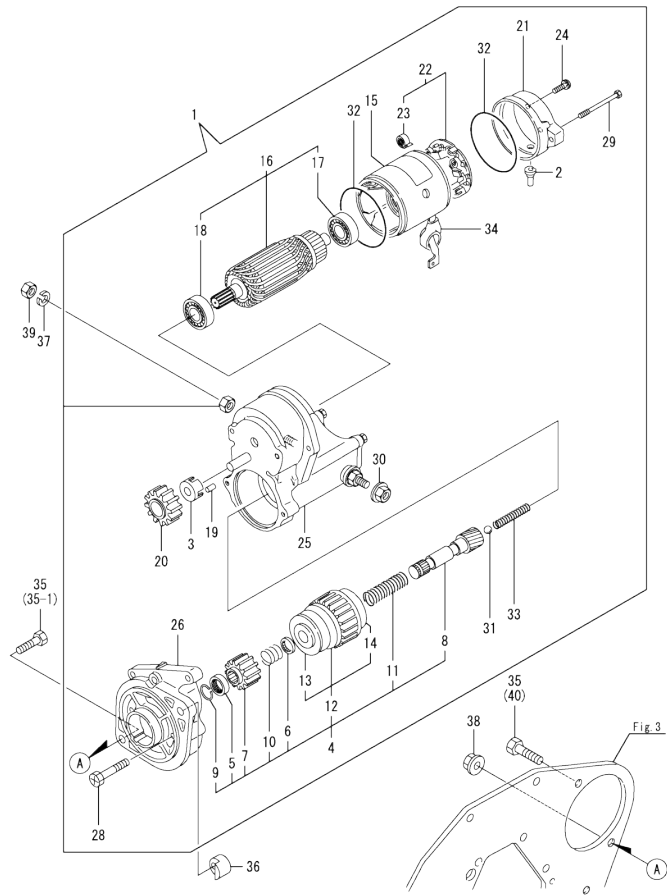
Fig.14. FUEL LINE



No.	Lev.	Parts No.	Description	(A)=3TNE68-HT (B)= (C)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-01851	GASKET	1							
2	1	121520-01860	COVER	1							
3	1	26106-060162	BOLT, M6X 16 PLATED	2							
4	1	119632-55620	FILTER ASSY, FUEL	1							
5	2	104200-55321	VALVE, TAPER	1							
6	2	104200-55330	SPRING, VALVE	1							
7	2	119810-55340	LEVER	1							
8	2	121254-55510	COVER	1							
9	2	102103-55520	O-RING	1							
10	2	110250-55610	RING, RETAINING	1							
11	2	121250-55620	SPRING	1							
13	2	124550-55700	FILTER, FUEL L=90	1							
14	2	104200-55750	SCREW, M4	1							
15	2	24311-240100	O-RING, 1AP10A	1							
16	1	129150-59580	CAP	1							
17	1	101304-59020	JOINT, PIPE 12	1							
18	1	105225-59520	PIPE, FUEL	1							
19	1	104200-59170	GASKET, 12	2							
19-1	1	22190-120002	WASHER, SEAL 12	2							N
(A=EXXXXX)											
20	1	119650-59200	BOLT, PIPE JOINT M12	1							
20-1	1	119462-59190	BOLT ASSY, JOINT	1							N
(A=EXXXXX)											
20-2	1	105340-59190	BOLT ASSY, JOINT	1							N
(A=E80640)											
21	1	104264-59030	JOINT, PIPE 8	2							Z
(A=E80640)											
22	1	105582-59150	BOLT, PIPE JOINT	2							Z
(A=E80640)											
23	1	22190-080002	WASHER, SEAL 6	4							Z
(A=E80640)											
24	1	124766-59050	CLIP, HOSE 12	7							
25	1	124550-55700	FILTER, FUEL L=90	1							

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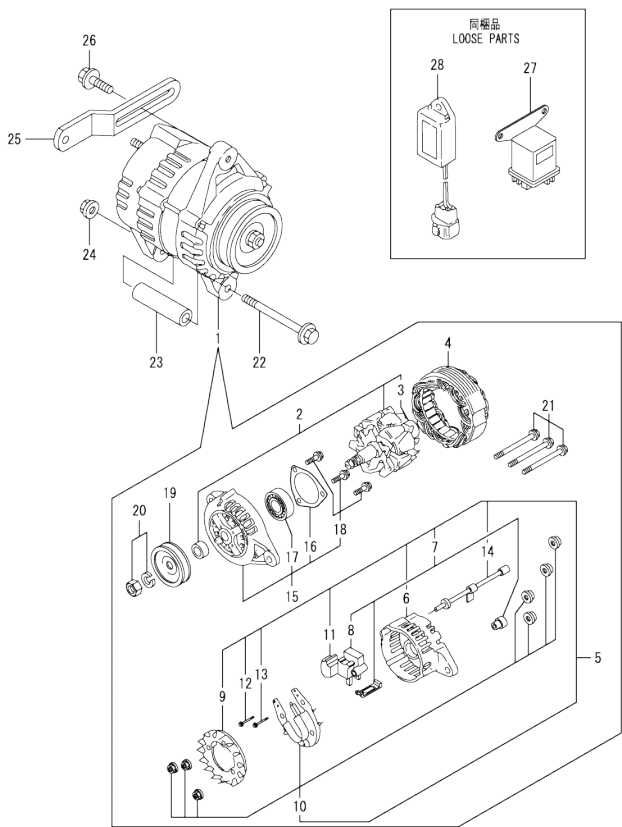
Fig.15. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121120-77012	STARTER, RA1.4	1							
2	2	129129-77362	COVER	1							
3	2	129129-77260	RETAINER	1							
4	2	121120-77250	STARTER	1							
5	3	X0280210230	NUT	1							
6	3	X0283270140	RETAINER	1							
7	3	X0283711770	PINION	1							
8	3	129129-77400	SHAFT	1							
9	3	129129-77430	RING	1							
10	3	129407-77410	SPRING	1							
11	3	129129-77410	SPRING, COIL	1							
12	3	129129-77390	CLUTCH ASSY	1							
13	4	129129-77440	BEARING, BALL	1							
14	4	129129-77450	BEARING, BALL	1							
15	2	129407-77210	YOKE ASSY	1							
16	2	129407-77220	ARMATURE ASSY	1							
17	3	129129-77240	BEARING, BALL	1							
18	3	129129-77230	BEARING, BALL	1							
19	2	X0283060061	ROLLER	5							
20	2	129129-77270	PINION	1							
21	2	129407-77290	FRAME	1							
22	2	129407-77300	HOLDER ASSY	1							
23	3	X9491730461	SPRING	4							
24	2	129129-77460	SCREW	2							
25	2	129407-77310	SWITCH ASSY	1							
26	2	121120-77280	HOUSING	1							
28	2	129129-77320	BOLT	2							
29	2	129407-77330	BOLT	2							
30	2	X9490561370	NUT	1							
31	2	X9491200240	BALL	1							
32	2	129129-77350	O-RING	2							
33	2	129129-77340	SPRING	1							
34	2	129129-77380	CAP	1							
35	1	26156-120302	BOLT, M12X 30 PLATED	2							
35-1	1	26156-120302	BOLT, M12X 30 PLATED	1							K
(A=E92246)											
35-2	1	26156-120352	BOLT, M12X 35 PLATED	1							R
(A=EXXXXX)											
36	1	119285-77050	NUT	1							
37	1	22217-080000	WASHER, SPRING 8	1							Z
(A=EXXXXX)											
38	1	26376-120002	NUT, M12	1							
39	1	26756-080002	NUT, LOCK M8	1							Z
(A=EXXXXX)											
40	1	26156-120352	BOLT, M12X 35 PLATED	1							W
(A=E92246)											

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Fig.16. GENERATOR

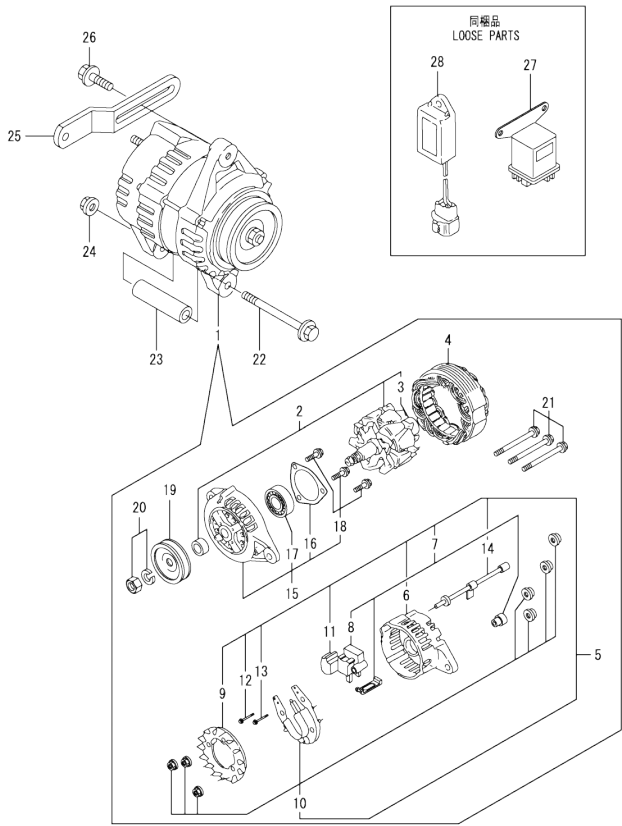


No.	Lev.	Parts No.	Description	(A)=3TNE68-HT (B)= (C)=						Q'ty	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119836-77200	GENERATOR	1							Z	
2	2	119836-77700	ROTOR ASSY	1							Z	
3	3	119836-77850	BEARING, BALL	1							Z	
4	2	119836-77710	STATOR ASSY	1							Z	
5	2	119836-77721	COVER ASSY, REAR	1							Z	
6	3	119836-77730	COVER, REAR	1							Z	
7	3	119836-77741	BRUSH ASSY,REGULATOR	1							Z	
8	4	119836-77750	BRUSH ASSY	1							Z	
9	3	119836-77760	GUIDE, FAN SIDE	1							Z	
10	3	119836-77770	DIODE ASSY	1							Z	
11	3	119836-77780	CONDENSER	1							Z	
12	3	119836-77871	BOLT (1)	1							Z	
13	3	119836-77880	BOLT (2)	1							Z	
14	3	119836-77890	WIRE ASSY, LEAD	1							Z	
15	2	119836-77790	COVER ASSY, FRONT	1							Z	
16	3	119836-77800	RETAINER, BEARING	1							Z	
17	3	119836-77840	BEARING, BALL	1							Z	
18	3	119836-77860	SCREW KID	1							Z	
19	2	119836-77810	PULLEY	1							Z	
20	2	119836-77820	NUT ASSY, PULLEY	1							Z	
21	2	119836-77830	BOLT, THROUGH	1							Z	
22	1	26106-081052	BOLT, M8X105 PLATED	1								
22-1	1	129953-77201	BOLT	1								N
22-2	1	129953-77201	BOLT	1								Z
23	1	129150-77340	SPACER	1								Z
24	1	26366-080002	NUT, M8	1								
24-1	1	26306-080002	NUT, M8	1								N

N:Old, Q:New, R:Old, S:New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.16. GENERATOR

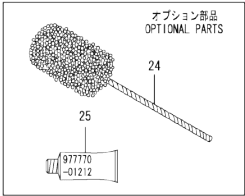
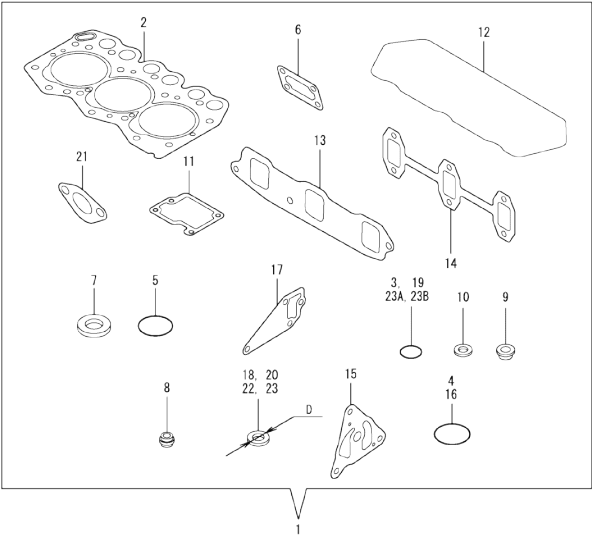


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
24-2	1	129612-77260	NUT, ALTERNATOR	1						N	
24-3	1	129612-77260	NUT, ALTERNATOR	1						Z	
25	1	119225-77330	ADJUSTER	1							
25-1	1	123500-77330	ADJUSTER	1						N	
25-2	1	123500-77330	ADJUSTER	1						Z	
26	1	26106-080182	BOLT, M8X 18 PLATED	1						Z	
27	1	119650-77910	RELAY ASSY, GLOW	1							
27-1	1	119650-77911	RELAY ASSY, GLOW	1						N	
28	1	119632-77920	TIMER	1							
28-1	1	129211-77920	TIMER	1						N	

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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OCV10-M54401

Fig.17. GASKET SET



Remarks
(1)Optional parts.
(2)D=Ref.No.23 14M/M,23-1 24M/M.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719265-92661	GASKET SET	1							1
1-1	1	719265-92780	GASKET SET	1						N	1
(A=EXXXXX)											
1-2	1	119233-92600	PACKING	1						S	1
(A=E92246)											
2	2	119265-01341	GASKET, HEAD	1							
3	2	24311-000120	O-RING, 1AP12.0	2							
4	2	24311-000320	O-RING, 1AP32.0	2							
5	2	24341-000240	O-RING, 1AS24.0	1							
6	2	119660-01562	GASKET	1							
7	2	22190-220002	WASHER, SEAL 22	1							
8	2	119260-11340	SEAL, VALVE STEM	6							
8-1	2	119260-11341	SEAL, VALVE STEM	6						N	
(A=EE0285)											
9	2	119600-11450	PROTECTOR, NOZZLE	3							
10	2	119600-11460	GASKET, NOZZLE	6							
11	2	119260-03031	GASKET	1							
12	2	119260-11310	GASKET, BONNET	1							
13	2	119270-12110	GASKET, MANIFOLD	1							
14	2	119260-13110	GASKET	1							
15	2	119660-32020	GASKET, PUMP	1							
16	2	24321-000350	O-RING, 1AG35.0	1							
16-1	2	119209-42140	O-RING, G 35	1						N	
(A=EXXXXX)											
17	2	119260-42020	GASKET, WATER PUMP	1							
17-1	2	119260-42021	GASKET, WATER PUMP	1						N	
(A=EXXXXX)											
18	2	124465-44950	GASKET, 16	1							
19	2	129155-61830	O-RING, S10	3							
19-1	2	158552-51930	O-RING, 4D S10	3						N	
(A=EXXXXX)											
20	2	23414-140000	GASKET, 14X1.0	3							
20-1	2	22190-140002	WASHER, SEAL 14	3						N	
(A=EXXXXX)											
21	2	121520-01851	GASKET	1							
22	2	104200-59170	GASKET, 12	2							
22-1	2	22190-120002	WASHER, SEAL 12	2						N	
(A=EXXXXX)											
23	2	129150-49360	GASKET	1							
23-1	2	124465-44950	GASKET, 16	1						S	2
(A=E92246)											
23A	2	24311-000120	O-RING, 1AP12.0	2							
23A-1	2	119624-32040	O-RING, P12.0	2						N	
(A=EXXXXX)											
23B	2	119209-35030	O-RING, P11	1						W	
(A=EXXXXX)											
24	1	129400-92400	HONE	1							1
25	1	977770-01212	GASKET, LIQUID	1							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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	17	22
104264-59030	14	21
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105027-12580	5	12
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105546-51330	11	24
105582-59150	14	22
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114250-53130	13	9
114250-53400	13	11
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119131-18320	6	5
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	17	16 -1
	10	10 -1
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119260-02800	1	14
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119836-77710	16	4
119836-77721	16	5
119836-77730	16	6
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121500-12790	5	5
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		24 -3
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		15 -2
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	9	27
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