

0CW10-M61000EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNM68-ASG for SAWAFUJI ELECTRIC.

Pub.No. : 0CW10-G61000

Published : April, 2010

2. Model name

Engine model	Vehicle	Vehicle made by
3TNM68-ASG	GENERATOR	SAWAFUJI ELECTRIC

Directions for the Parts Catalog.

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

OCF10-G21601

29. FUEL INJECTION PUMP(W/BOOST)

1

REF.

2

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

3

I

5

R

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 Mark

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

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	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 Mark

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

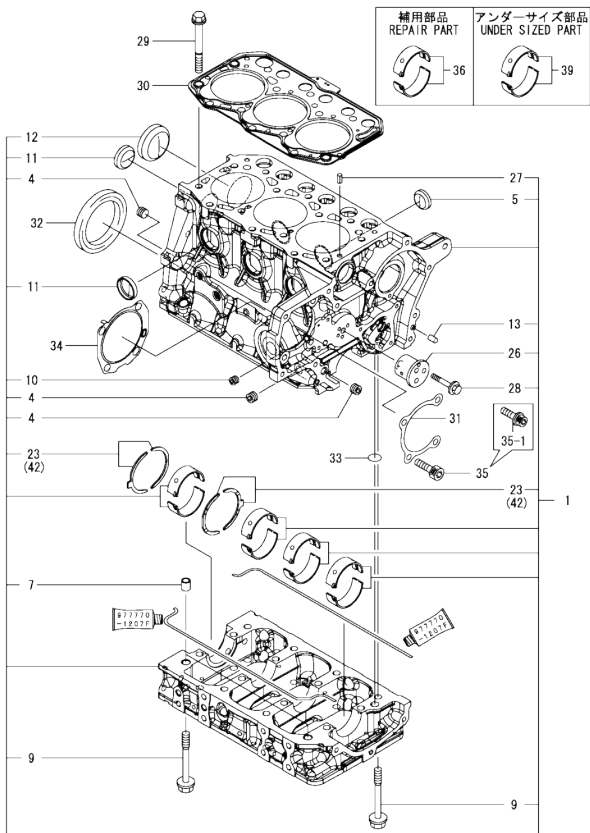
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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0CW10-M61000

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4.	CYLINDER HEAD & BONNET		
5.	AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
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 FILTER		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

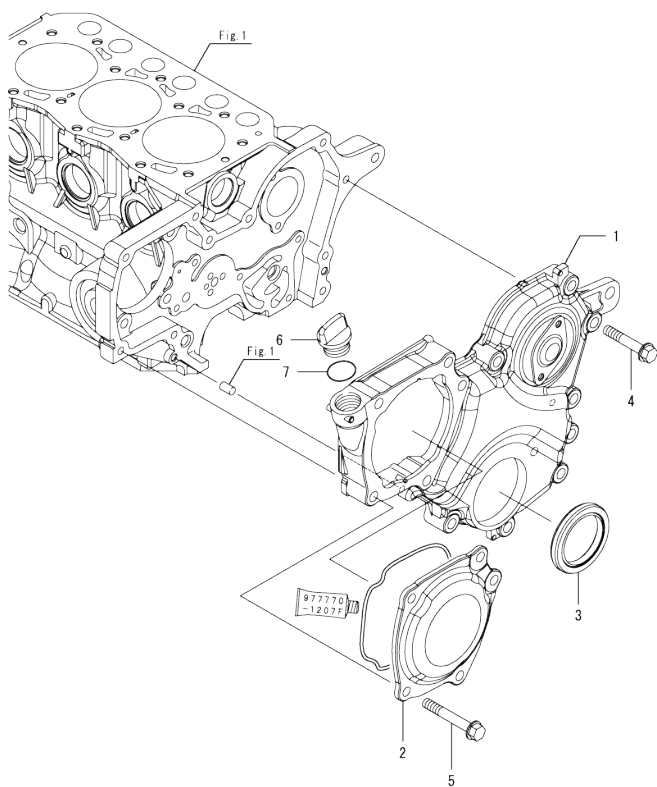
Fig.1. CYLINDER BLOCK



Remarks
(1)Repair 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	119127-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	3							
5	2	119125-01970	PLUG, 25	3							
7	2	119125-01960	PIPE, KNOCK	2							
9	2	119125-02061	BOLT, METAL CAP	16							
10	2	23876-005000	PLUG, R005	1							
11	2	27241-300000	PLUG 30	4							
12	2	27241-450000	PLUG, 45	1							
13	2	119620-01620	PIN, M6X10	2							
23	2	119125-02930	BEARING, THRUST	2							
26	2	119125-25050	SHAFT, IDLE GEAR	1							
27	2	22351-060012	PIN, SPRING 6.0X12	2							
28	2	26106-060402	BOLT, M6X 40 PLATED	3							
29	1	119266-01200	BOLT, HEAD	14							
30	1	119125-01330	GASKET, HEAD	1							
31	1	119125-01790	GASKET	1							
32	1	119734-02220	SEAL, OIL	1							
33	1	129900-32040	O-RING, P14	1							
34	1	119125-51800	GASKET	1							
35	1	26450-080252	BOLT, M8X 25	4							
35-1	1	119125-01800	BOLT	4						N	
(A=EZZZZZ)											
36	1	119125-02900	BEARING, MAIN	4							1
39	1	119125-02910	BEARING, 0.25 US	4							2
42	1	119125-02940	BEARING, THRUST 0.25	2							3

Fig.2. GEAR HOUSING



(D)=
(E)=

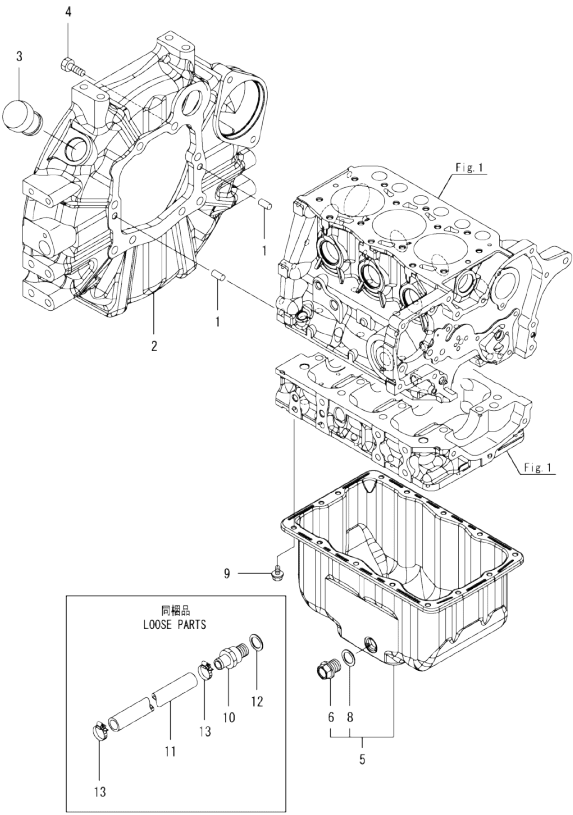
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119125-01500	COVER, GEAR CASE	1							
2	1	119125-01750	COVER	1							
3	1	119717-01800	SEAL, OIL	1							
4	1	26106-080352	BOLT, M8X 35 PLATED	8							
5	1	26106-080452	BOLT, M8X 45 PLATED	5							
6	1	106760-01770	CAP	1							
7	1	24311-000180	O-RING, 1AP18.0	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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0CW10-M61000 3TNM68-ASG

Fig.3. FLYWHEEL HOUSING & OIL SUMP



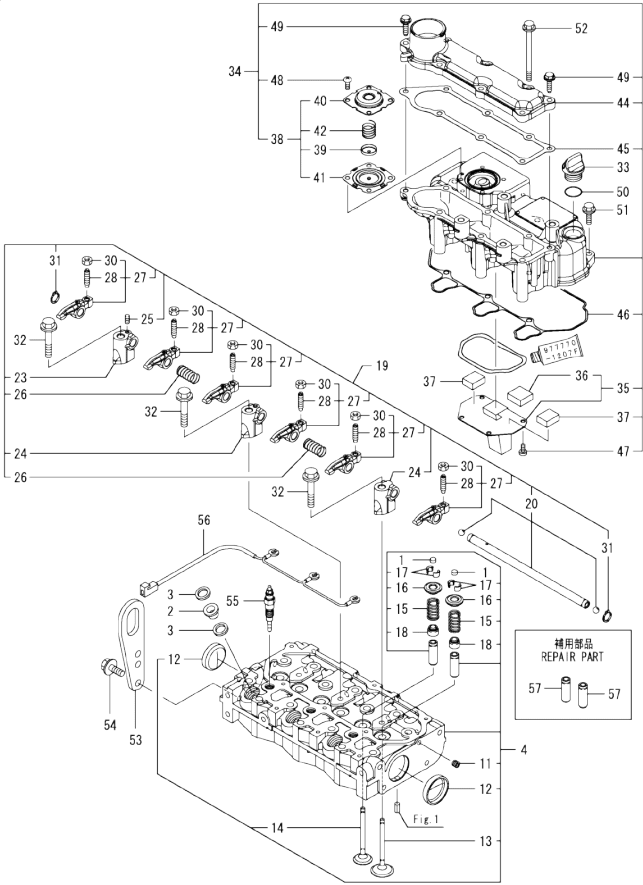
Remarks
(1)Fig.15 No.1-1 interchangeable by set.

0CW10-M61000 Fig.3

		(A)=3TNM68-ASG		(D)=		(E)=		(F)=		Q'ty		I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129100-01580	PIN, PARALLEL 8X16	2									
2	1	119128-01640	HOUSING, FLYWHEEL	1									
2-1	1	119128-01660	HOUSING, FLYWHEEL	1								F	1
(A=E023602)													
3	1	119620-01750	CAP, WHEEL COVER	1									
4	1	26206-100252	BOLT, M10X 25 PLATED	8									
5	1	119125-01760	OIL PAN ASSY	1									
6	2	105425-01690	PLUG, DRAIN M16	1									
8	2	22190-160002	WASHER, SEAL 16	1									
9	1	119125-01780	BOLT, TORX M6X10	14									
10	1	183366-08351	NIPPLE, DRAIN	1									
11	1	119446-39100	PIPE, OIL DRAIN	1									
12	1	22190-160002	WASHER, SEAL 16	1									
13	1	23000-022000	CLAMP, 22	2									

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.4. CYLINDER HEAD & BONNET



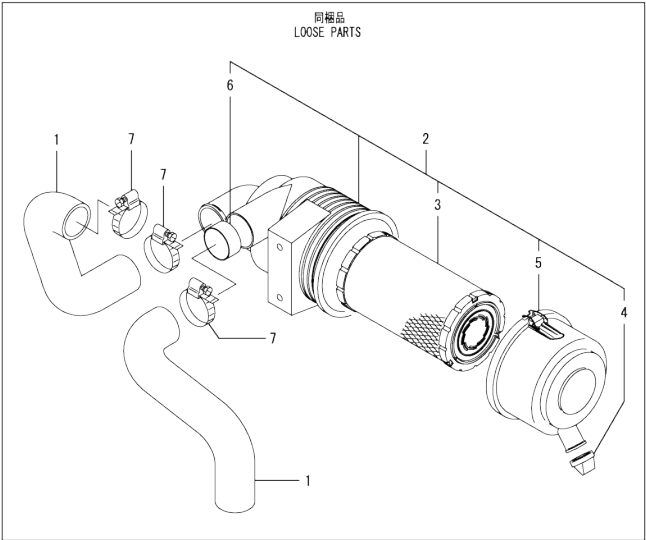
Remarks
(1)Repair part.

(A)=3TNM68-ASG
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-11370	CAP. VALVE	6							
2	1	129901-11450	PROTECTOR, NOZZLE	3							
3	1	119600-11460	GASKET, NOZZLE	6							
4	1	119125-11740	HEAD ASSY, CYLINDER	1							
11	2	23876-005000	PLUG, R005	1							
12	2	27241-350000	PLUG, 35	2							
13	2	119125-11100	VALVE, INTAKE	3							
14	2	119125-11110	VALVE, EXHAUST	3							
15	2	119125-11130	SPRING, VALVE	6							
16	2	119125-11180	RETAINER, SPRING	6							
17	2	119125-11190	COTTER	12							
18	2	119125-11340	SEAL, VALVE STEM	6							
19	1	119125-11200	SUPPORT ASSY, ARM	1							
20	2	119125-11240	SHAFT ASSY, ROCKER	1							
23	2	119125-11260	SUPPORT, ROCKER ARM	1							
24	2	119125-11270	SUPPORT, ROCKER ARM	2							
25	2	119260-11270	SCREW	1							
26	2	119260-11280	SPRING	2							
27	2	119125-11650	ARM, ROCKER	6							
28	3	105010-11230	SCREW, VALVE ADJUST	6							
30	3	26856-060002	NUT, M6	6							
31	2	22242-000100	RING, 10	2							
32	1	26106-080452	BOLT, M8X 45 PLATED	3							
33	1	106760-01770	CAP	1							
34	1	119125-11380	BONNET ASSY, HEAD	1							
35	2	119717-03031	PLATE	1							
36	3	119717-03070	BAFFLE, BREATHER	1							
37	2	119717-03070	BAFFLE, BREATHER	2							
38	2	119802-03100	DIAPHRAGM ASSY	1							
39	3	119802-03110	PLATE	1							
40	3	119802-03121	COVER, DIAPHRAGM	1							
41	3	119802-03131	DIAPHRAGM	1							
42	3	119802-03141	SPRING, DIAPHRAGM	1							
44	2	119125-11320	COVER, BONNET	1							
45	2	119125-11330	GASKET	1							
46	2	119125-11370	GASKET, BONNET	1							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500100	SCREW, 5X10	4							
49	2	26476-060202	SCREW, TAPPING M6X20	2							
50	1	24311-000180	O-RING, 1AP18.0	1							
51	1	26106-060202	BOLT, M6X 20 PLATED	3							
52	1	26106-060802	BOLT, M6X 80 PLATED	6							
53	1	119226-07900	LIFTER	1							
54	1	26106-080162	BOLT, M8X 16 PLATED	2							
55	1	119125-77800	PLUG, GLOW	3							
56	1	119125-77820	CONNECTOR, GLOW PLUG	1							
57	1	119125-11800	GUIDE, VALVE	6							1

Fig.5. AIR CLEANER



0CW10-M61000 Fig.5

(A)=3TNM68-ASG

(B)=

(C)=

(D)=

(E)=

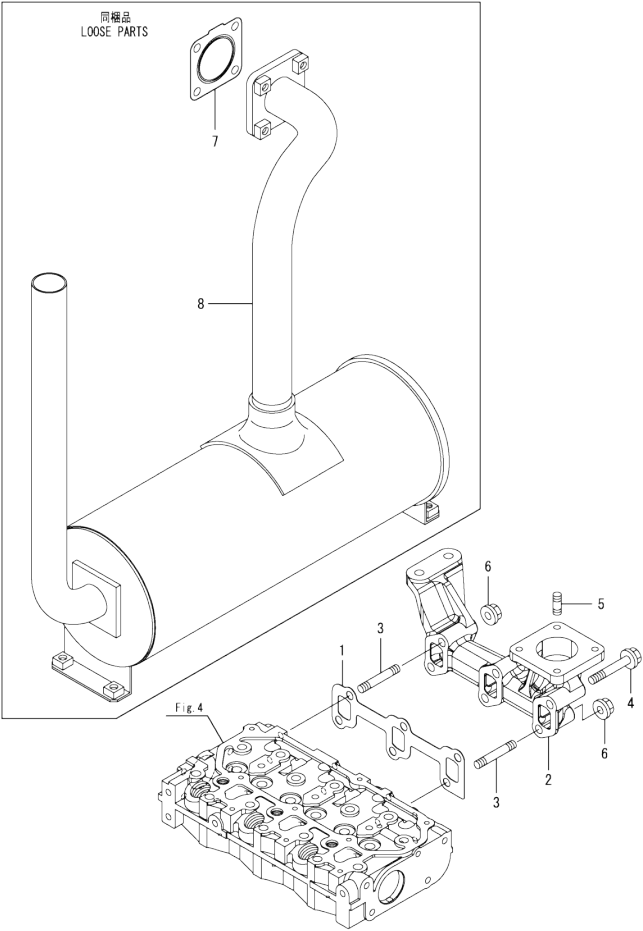
(F)=

Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	119128-12050	PIPE, AIR INTAKE	2					
2	1	119515-12501	CLEANER ASSY, AIR	1					
3	2	119515-12520	ELEMENT	1					
4	2	119808-12540	VALVE, UNLOADER	1					
5	2	119336-12570	COVER ASSY	1					
6	2	105027-12580	RING	1					
7	1	23000-060000	CLAMP, 60	3					

Fig.6. EXHAUST MANIFOLD & SILENCER



0CW10-M61000 Fig.6

(A)=3TNM68-ASG

(D)=

(B)=

(E)=

(C)=

(F)=

Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	119125-13110	GASKET	1					
2	1	119125-13140	MANIFOLD, EXHAUST	1					
3	1	119717-13600	STUD, M8X50	2					
4	1	119802-13620	BOLT, M8X50	4					
5	1	119131-18320	STUD, M8X22	4					
6	1	26306-080002	NUT, M8	2					
7	1	119515-13200	GASKET, SILENCER	3					
8	1	119128-13510	SILENCER	1					

Fig.7. CAMSHAFT & DRIVING GEAR

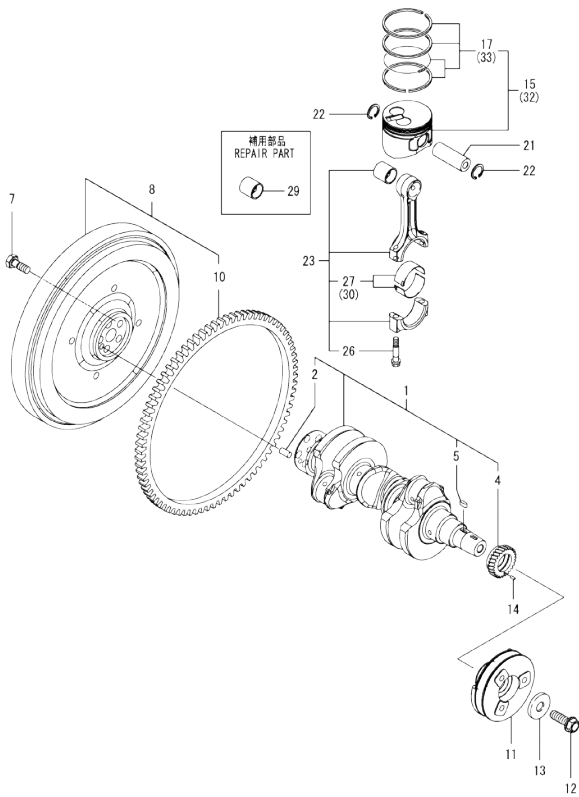


(A)=3TNM68-ASG
(B)=
(C)=

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

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:Qty Change

Fig.8. CRANKSHAFT & PISTON

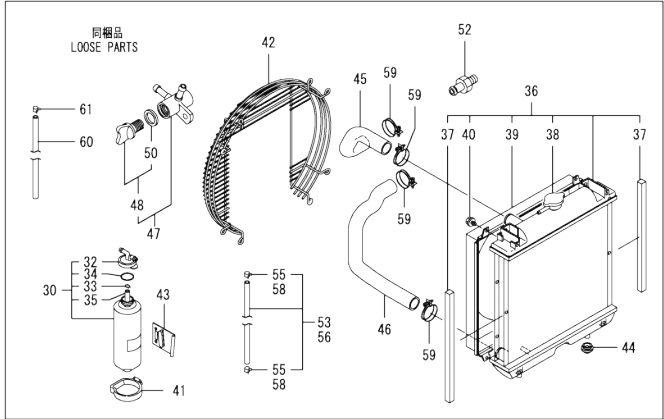
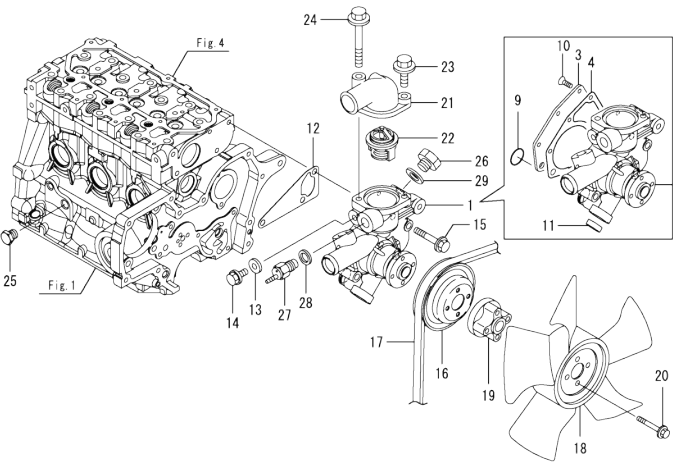


Remarks
(1)Repair part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119125-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	119125-21200	GEAR, CRANKSHAFT	1							
5	2	22512-040120	KEY, 4X 12	1							
7	1	121111-21501	BOLT, FLYWHEEL	5							
8	1	119128-21560	FLYWHEEL ASSY	1							
10	2	119865-21600	GEAR, RING	1							
11	1	119125-21650	V-PULLEY	1							
12	1	119621-21681	BOLT, FLANGE 12X1.25	1							
13	1	119620-21941	WASHER	1							
14	1	22351-030010	PIN, SPRING 3.0X10	1							
15	1	119125-22080	PISTON ASSY	3							
17	2	119125-22500	RING SET, PISTON	3							
21	1	119125-22300	PIN, PISTON	3							
22	1	22252-000200	RING, 20	6							
23	1	119125-23000	ROD ASSY, CONNECTING	3							
26	2	119717-23200	BOLT, CONNECTING ROD	6							
27	2	119515-23601	BEARING, CRANK PIN	3							
29	1	119260-23910	BEARING, PISTON PIN	3							1
30	1	119515-23611	METAL ASSY, 0.25	3							2
32	1	119125-22900	PISTON ASSY, 0.25 OS	3							3
33	2	119125-22550	RING SET, 0.25 OS	3							3

0CW10-M61000 3TNM68-ASG

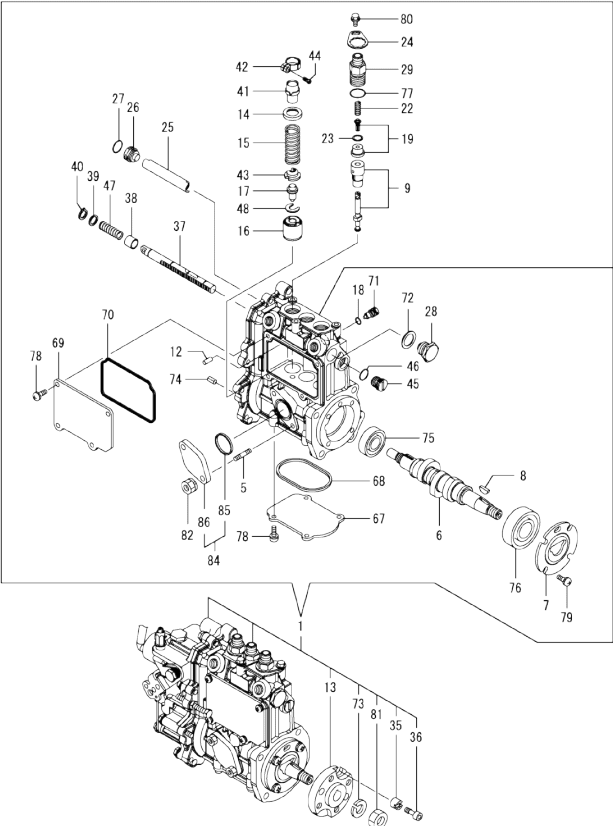
Fig.10. COOLING WATER SYSTEM



				0CW10-M61000 Fig.10							
				(A)=3TNM68-ASG (B)= (C)=							
				(D)= (E)= (F)=							
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119125-42000	PUMP ASSY, WATER	1							
3	2	119125-42020	COVER	1							
4	2	119125-42030	GASKET, WATER PUMP	1							
9	2	119209-42320	O-RING, P21 EPDM	1							
10	2	26577-060122	SCREW, M6X12	4							
11	2	27241-220000	PLUG, 22	1							
12	1	119260-42021	GASKET, WATER PUMP	1							
13	1	23414-080000	GASKET, 8X1.0	1							
14	1	26106-080122	BOLT, M8X 12 PLATED	1							
15	1	26106-080452	BOLT, M8X 45 PLATED	3							
16	1	119717-42350	V-PULLEY, D=100	1							
17	1	25132-003500	V-BELT, A35	1							
18	1	119265-44740	FAN, D=310X5F	1							
19	1	129457-44760	SPACER, FAN	1							
20	1	26106-060452	BOLT, M6X 45 PLATED	4							
21	1	124101-49531	COVER, THERMOSTAT	1							
22	1	119717-49800	THERMOSTAT, 71	1							
23	1	26106-080252	BOLT, M8X 25 PLATED	1							
24	1	26106-080652	BOLT, M8X 65 PLATED	1							
25	1	171056-49120	PLUG, DRAIN	1							
26	1	121450-42450	PLUG, M16	1							
27	1	121250-44901	SWITCH, 110	1							
28	1	124465-44950	GASKET, 16	1							
29	1	124465-44950	GASKET, 16	1							
30	1	171064-44510	TANK ASSY, SUB	1							
32	2	121450-44531	CAP	1							
33	2	124450-44560	RETAINER	1							
34	2	121470-44581	GASKET	1							
35	2	23065-070225	HOSE 7X 225	1							
36	1	119128-44520	RADIATOR ASSY	1							
37	2	119128-44570	GASKET	2							
38	2	129107-44590	CAP, RADIATOR	1							
39	2	119515-44600	SHROUD	1							
40	2	26014-060122	BOLT, M6X 12	4							
41	1	124450-44550	BAND	1							
42	1	119802-44560	GUARD	1							
43	1	121256-44600	BRACKET, SUB TANK	1							
44	1	119255-44660	ABSORBER	2							
45	1	119128-49030	PIPE, WATER	1							
46	1	119128-49040	PIPE, WATER	1							
47	1	129150-49100	COCK ASSY, 3-WAY	1							
48	2	129150-49080	COCK, DRAIN	1							
50	3	119629-49080	GASKET	1							
52	1	121550-49111	JOINT, PT1/4	1							
53	1	129210-49240	PIPE ASSY, DRAIN	2							
55	2	124766-59050	CLIP, HOSE 12	4							
56	1	129210-49280	PIPE ASSY, DRAIN	1							
58	2	124766-59050	CLIP, HOSE 12	2							
59	1	23010-038000	CLAMP, 38	4							
60	1	23061-060600	PIPE, 6X 600	1							
61	1	23080-007000	CLAMP, 7	1							

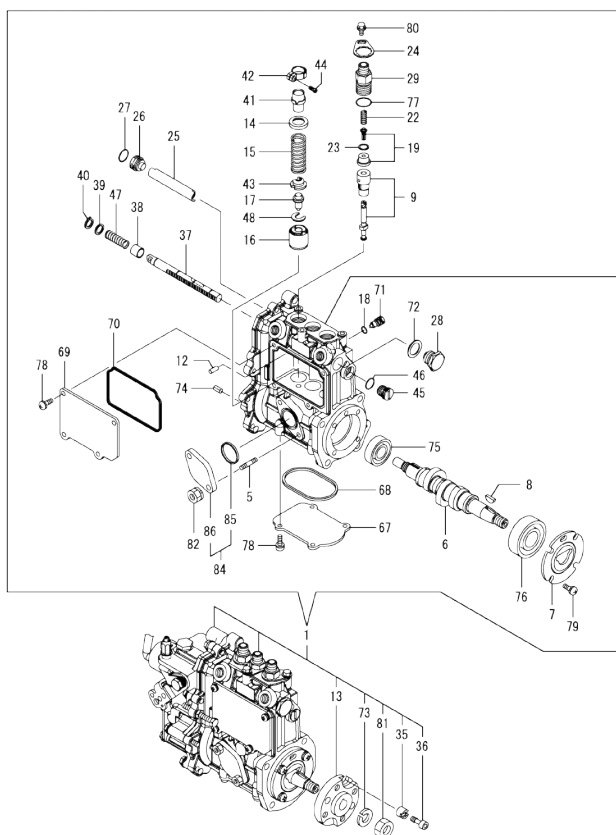
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.11. FUEL INJECTION PUMP



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

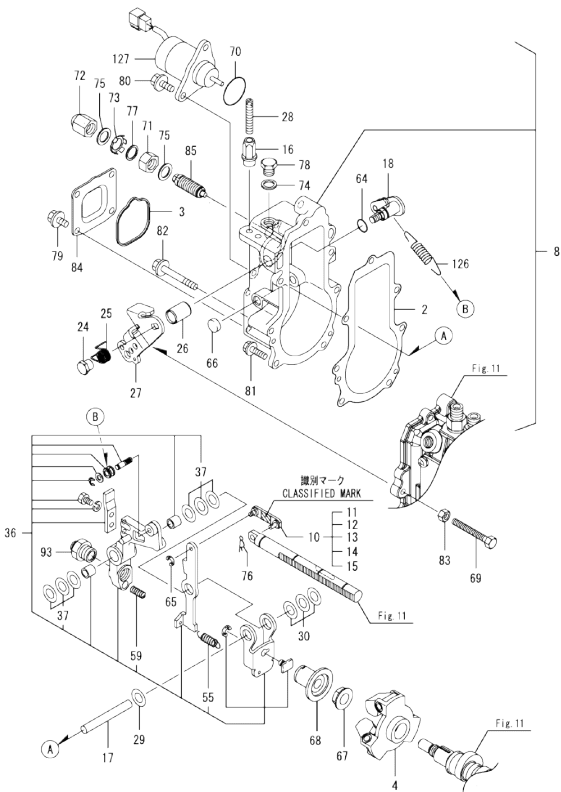
										0CW10-M61000 Fig.11	
										(A)=3TNM68-ASG	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719128-51320	PUMP ASSY, INJECTION	1						1	
5	2	129155-51020	STUD	2							
6	2	119125-51030	CAMSHAFT	1							
7	2	119125-51060	RETAINER, BEARING	1							
8	2	122710-51090	KEY	1							
9	2	119125-51100	PLUNGER ASSY	3							
12	2	129155-51140	PIN	3							
13	2	119717-51150	FLANGE	1							
14	2	158600-51170	RETAINER, SPRING	3							
15	2	119717-51190	SPRING, PLUNGER	3							
16	2	119125-51241	TAPPET	3							
17	2	119125-51250	GUIDE, TAPPET	3							
18	2	129155-51280	O-RING, S6	1							
19	2	119125-51300	VALVE ASSY, DELIVERY	3							
22	2	128990-51330	SPRING, DELIVERY	3							
23	2	124550-51350	GASKET, DELIVERY	3							
24	2	118400-51370	LOCKING	3							
25	2	129155-51400	DEFLECTOR	1							
26	2	158600-51410	PLUG, DEFLECTOR	1							
27	2	119717-51420	O-RING	1							
28	2	158600-51420	PLUG, DEFLECTOR	1							
29	2	158600-51442	VALVE ASSY, DELIVERY	3							
35	2	119125-51480	COLLAR	1							
36	2	119125-51490	BOLT	1							
37	2	119717-51500	RACK, CONTROL	1							
38	2	129155-51521	BUSH, RACK	1							
39	2	129155-51530	SPACER	1							
40	2	129155-51540	CIRCLIP	1							
41	2	129155-51550	PINION, CONTROL	3							
42	2	129100-51560	PINION	3							
43	2	119717-51570	RETAINER, SPRING	3							
44	2	129100-51570	SCREW	3							
45	2	158600-51570	PLUG	1							
46	2	129155-51580	O-RING	1							
47	2	129155-51591	SPRING, RACK	1							
48	2	129155-51600	SHIM SET, ADJUSTING	3							
67	2	119125-51700	COVER	1							
68	2	119717-51711	GASKET	1							
69	2	119717-51750	COVER	1							
70	2	119717-51761	GASKET	1							
71	2	158600-51790	STOOPER, RACK	1							
72	2	22190-160002	WASHER, SEAL 16	1							
73	2	22217-120000	WASHER, SPRING 12	1							
74	2	22351-050010	PIN, SPRING 5.0X10	2							
75	2	24101-060034	BEARING, BALL 6003	1							
76	2	24101-063034	BEARING, BALL 6303	1							
77	2	24316-000150	O-RING, 4DP15.0	3							
78	2	26022-050122	SCREW, M5X12	8							
79	2	26022-060162	SCREW, M6X16	4							
80	2	26106-050102	BOLT, M5X 10 PLATED	3							
81	2	26716-120002	NUT, M12	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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Remarks
(1)Governor(Fig.12)is incorporated in this Fuel Injection Pump (Ref.1).

				(A)=3TNM68-ASG					(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R	
82	2	1191717-51860	NUT, M6	2									
84	2	129255-52000	COVER ASSY	1									
85	3	129155-52051	GASKET	1									
86	3	129100-52200	COVER	1									

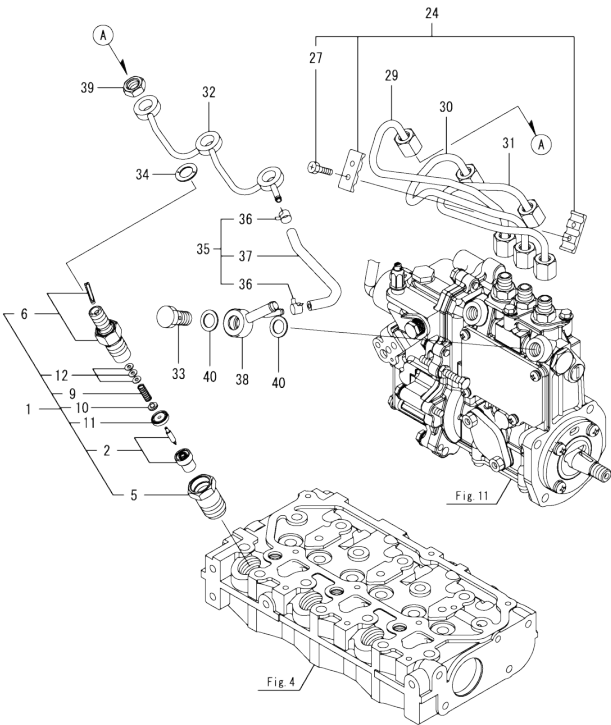
Fig.12. GOVERNOR



Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.11).
(1)Selective parts; certain the
classification mark, then place
your order (ref. to illustration).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-61050	GASKET	1							
3	2	119717-61070	GASKET	1							
4	2	119125-61201	WEIGHT ASSY,GOVERNOR	1							
8	2	119128-61300	CASE ASSY, GOVERNOR	1							
10	3	119125-61110	LINK ASSY	1							
11	4	119125-61120	LINK, MARK 93	1							1
12	4	119125-61130	LINK, MARK 98	1							1
13	4	119125-61140	LINK, MARK 88	1							1
14	4	119125-61150	LINK, MARK 00	1							1
15	4	119125-61160	LINK, MARK 03	1							1
16	3	129209-61370	NUT, M6	1							
17	3	119125-61390	SHAFT	1							
18	3	119125-61401	SHAFT ASSY	1							
24	3	129255-61410	NUT, LOCK	1							
25	3	119527-61420	SPRING	1							
26	3	119125-61430	BUSH	1							
27	3	119515-61440	LEVER, CONTROL	1							
28	3	129155-61450	BOLT, LIMITER	1							
29	3	129156-61460	SHIM, T=0.6	1							
30	3	129155-61480	SPACER ASSY	1							
36	3	119125-61501	LEVER ASSY, GOVERNOR	1							
37	4	174307-51700	SHIM SET	2							
55	4	129486-61540	SPRING, SET	1							
59	4	129100-61650	SPRING, CONTROLLER	1							
64	3	129155-61830	O-RING, S10	1							
65	3	22272-000030	RING, E- 3	1							
66	3	27260-120000	PLUG, 12	1							
67	2	129008-61301	NUT	1							
68	2	129155-61341	SLEEVE	1							
69	2	129155-61460	BOLT, IDLE	1							
70	2	158552-61900	O-RING	1							
71	2	129209-61920	NUT, ARB	1							
72	2	129209-61930	NUT, CAP	1							
73	2	129209-61970	PLATE	1							
74	2	22190-100002	WASHER, SEAL 10	1							
75	2	22190-120002	WASHER, SEAL 12	2							
76	2	22372-040000	PIN, SNAP 4	1							
77	2	23414-120016	GASKET, 12X1.0	1							
78	2	23887-100002	PLUG, 10	1							
79	2	26106-060102	BOLT, M6X 10 PLATED	4							
80	2	26106-060142	BOLT, M6X 14 PLATED	2							
81	2	26106-060202	BOLT, M6X 20 PLATED	4							
82	2	26106-060452	BOLT, M6X 45 PLATED	3							
83	2	26756-060002	NUT, LOCK M6	1							
84	2	119717-61060	COVER, GOVERNOR CASE	1							
85	2	119125-61450	LIMITER ASSY, FUEL	1							
93	2	119515-61560	ANGLEICH ASSY	1							
126	2	119527-61700	SPRING, GOVERNOR	1							
127	2	119653-77950	SOLENOID, STOP	1							

Fig.13. FUEL INJECTION VALVE

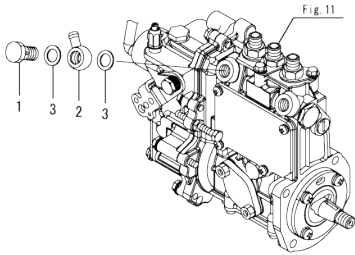
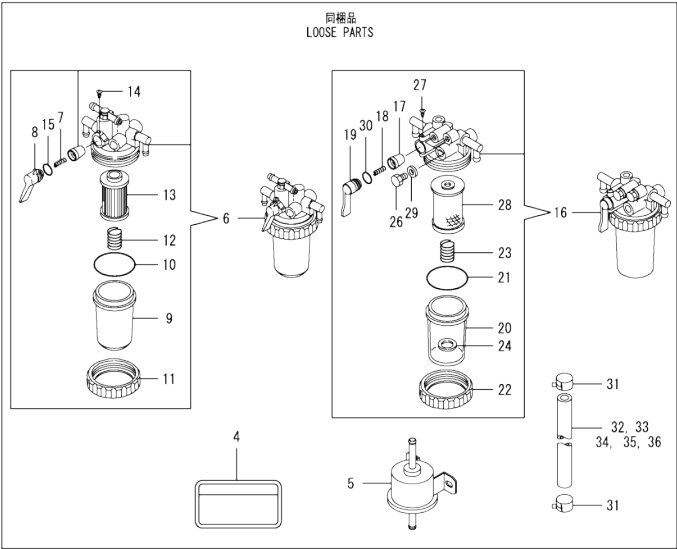


(A)=3TNM68-ASG
(B)=
(C)=

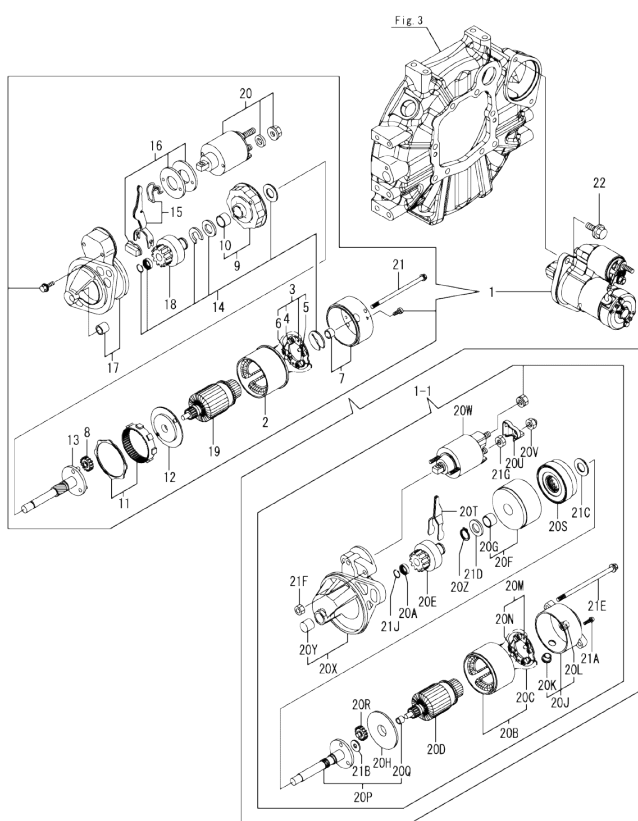
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719125-53100	VALVE ASSY,INJECTION	3							
2	2	119125-53001	VALVE ASSY,INJECTION	3							
5	2	119125-53080	NUT, NOZZLE	3							
6	2	119125-53100	HOLDER ASSY, NOZZLE	3							
9	2	119125-53120	SPRING, NOZZLE	3							
10	2	119125-53130	SEAT, SPRING	3							
11	2	119125-53140	SPACER, VALVE STOP	3							
12	2	114250-53400	SHIM SET	3							
24	1	129150-59120	RETAINER, PIPE	1							
27	2	129150-59131	BOLT, M4X14	2							
29	1	119125-59810	PIPE, FUEL INJECTION	1							
30	1	119125-59820	PIPE, FUEL INJECTION	1							
31	1	119125-59830	PIPE, FUEL INJECTION	1							
32	1	119125-59540	PIPE ASSY, RETURN	1							
33	1	119125-59560	BOLT, PIPE JOINT	1							
34	1	129901-59560	GASKET	3							
35	1	119125-59570	PIPE ASSY, RETURN	1							
36	2	124066-59100	CLIP, HOSE 8	2							
37	2	119000-59550	PIPE, FUEL RETURN	1							
38	1	119840-59570	JOINT	1							
39	1	119620-59700	NUT, NOZZLE	3							
40	1	22190-120002	WASHER, SEAL 12	2							

Fig.14. FUEL FILTER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	103854-39140	BOLT, PIPE JOINT	1							
2	1	101304-59020	JOINT, PIPE 12	1							
3	1	22190-120002	WASHER, SEAL 12	2							
4	1	114110-07760	LABEL, FUEL CAUTION	1							
5	1	119225-52102	PUMP ASSY, FUEL FEED	1							
6	1	119833-55620	FILTER ASSY, FUEL	1							
7	2	104200-55330	SPRING, VALVE	1							
8	2	119810-55340	LEVER	1							
9	2	121254-55510	COVER	1							
10	2	102103-55520	O-RING	1							
11	2	110250-55610	RING, RETAINING	1							
12	2	121250-55620	SPRING	1							
13	2	119810-55650	ELEMENT	1							
14	2	104200-55750	SCREW, M4	1							
15	2	24311-240100	O-RING, 1AP10A	1							
16	1	129335-55700	SEPARATOR ASSY, WATER	1							
17	2	104200-55321	VALVE, TAPER	1							
18	2	104200-55330	SPRING, VALVE	1							
19	2	104200-55341	HANDLE	1							
20	2	124064-55510	COVER	1							
21	2	102103-55520	O-RING	1							
22	2	110250-55610	RING, RETAINING	1							
23	2	121257-55720	SPRING	1							
24	2	121257-55731	FLOAT	1							
26	2	101720-55750	PLUG, 6	2							
27	2	104200-55750	SCREW, M4	1							
28	2	171081-55910	SCREEN	1							
29	2	23418-060000	GASKET, 6X1.0	2							
30	2	24311-240100	O-RING, 1AP10A	1							
31	1	124766-59050	CLIP, HOSE 12	12							
32	1	124574-59090	PIPE, FUEL D7.5X900	1							
33	1	105230-59510	PIPE, FUEL	2							
34	1	170121-59510	PIPE, FUEL	1							
35	1	129612-59520	PIPE, FUEL	1							
36	1	105025-59760	PIPE, FUEL	1							



Remarks

(1) Interchangeable by simultaneous replacement with Fig.3 No.2-1.

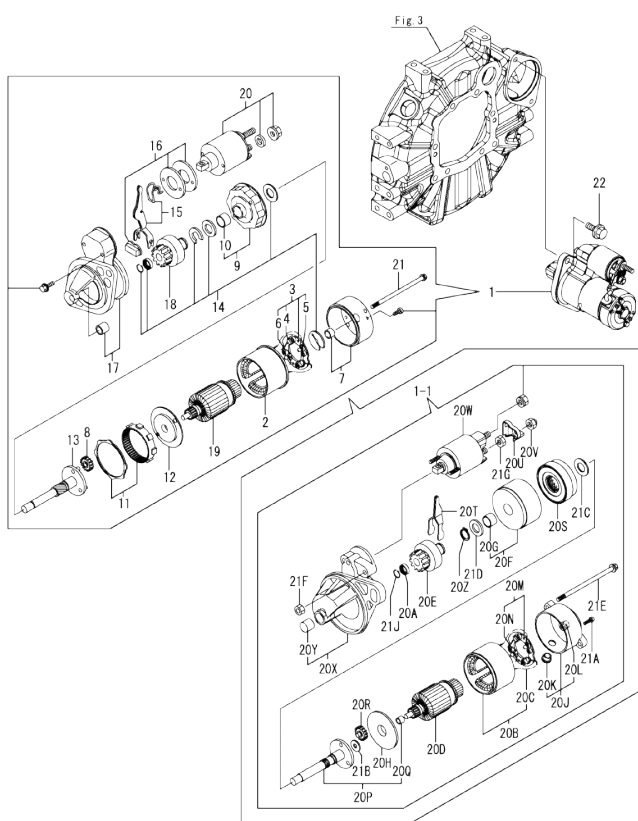
0CW10-M61000 Fig.15

(A)=3TNM68-ASG
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119125-77010	STARTER ASSY, 1.2KW	1							
1-1	1	119515-77010 (A=E023602)	STARTER, P1.0	1						F	1
2	2	129698-77110 (A=E023602)	YOKE ASSY	1						Z	
3	2	129698-77120 (A=E023602)	HOLDER ASSY, BRUSH	1						Z	
4	3	129698-77130 (A=E023602)	BRUSH	2						Z	
5	3	129698-77140 (A=E023602)	BRUSH SET	1						Z	
6	3	129698-77150 (A=E023602)	SPRING, BRUSH	4						Z	
7	2	129698-77161 (A=E023602)	COVER ASSY, STARTER	1						Z	
8	2	119125-77170 (A=E023602)	GEAR, PLANETARY	3						Z	
9	2	129698-77180 (A=E023602)	BRACKET, CENTER P	1						Z	
10	3	129698-77190 (A=E023602)	BRACKET, CENTER	1						Z	
11	2	119125-77200 (A=E023602)	GEAR, INTERNAL	1						Z	
12	2	119125-77210 (A=E023602)	BRACKET, CENTER A	1						Z	
13	2	119125-77230 (A=E023602)	SHAFT, PINION	1						Z	
14	2	129698-77250 (A=E023602)	WASHER SET	1						Z	
15	2	119125-77270 (A=E023602)	LEVER SET, SHIFT	1						Z	
16	2	119125-77280 (A=E023602)	COVER KIT, DUST	1						Z	
17	2	119125-77520 (A=E023602)	CASE ASSY, GEAR	1						Z	
18	2	119125-77660 (A=E023602)	PINION ASSY	1						Z	
19	2	119125-77710 (A=E023602)	ARMATURE ASSY	1						Z	
20	2	119125-77760 (A=E023602)	SWITCH ASSY, MAGNET	1						Z	
20A	2	X0280210331 (A=E023602)	NUT	1						W	
20B	2	X0281007680 (A=E023602)	YOKE ASSY	1						W	
20C	3	X0280996180 (A=E023602)	STARTER KIT	2						W	
20D	2	X0282005871 (A=E023602)	ARMATURE ASSY	1						W	
20E	2	X0283006960	CLUTCH	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:Qty Change
++ CONTINUE ++ Copyright (C) YANMAR CO., LTD. All Rights Reserved.



(1) Interchangeable by simultaneous replacement with Fig.3 No.2-1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
20F	2	X0284105040 (A=E023602)	BEARING ASSY, SUB	1							W
20G	3	X9491034330 (A=E023602)	BEARING	1							W
20H	2	X0284525010 (A=E023602)	PLATE	1							W
20J	2	X0285007030 (A=E023602)	FRAME ASSY	1							W
20K	3	X0280626010 (A=E023602)	COVER	1							W
20L	3	X9491040990 (A=E023602)	BEARING	1							W
20M	2	X0285105190 (A=E023602)	HOLDER ASSY	1							W
20N	3	X0285205030 (A=E023602)	SPRING	4							W
20P	2	X0286105010 (A=E023602)	SHAFT ASSY, SUB	1							W
20Q	3	X9491034320 (A=E023602)	BEARING	1							W
20R	2	X0286305010 (A=E023602)	GEAR	3							W
20S	2	X0286355010 (A=E023602)	GEAR	1							W
20T	2	X0287405140 (A=E023602)	LEVER	1							W
20U	2	X1280330020 (A=E023602)	COVER, TERMINAL	1							W
20V	2	X1289510130 (A=E023602)	NUT	1							W
20W	2	X2534000090 (A=E023602)	SWITCH ASSY	1							W
20X	2	X4284001590 (A=E023602)	HOUSING ASSY	1							W
20Y	3	X9491050100 (A=E023602)	BEARING, NEEDLE	1							W
20Z	2	X9055715000 (A=E023602)	RING	1							W
21	2	124195-77770 (A=E023602)	BOLT, THROUGH	2							Z
21A	2	X9490065670 (A=E023602)	SCREW, M4X6	2							W
21B	2	X9490138090 (A=E023602)	WASHER	1							W
21C	2	X9490138100 (A=E023602)	WASHER	1							W
21D	2	X9490138110 (A=E023602)	WASHER	1							W
21E	2	X9490423520 (A=E023602)	BOLT, THROUGH	2							W
21F	2	X9490560750	NUT	2							W

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

0CW10-M61000 3TNM68-ASG
Fig.15. STARTING MOTOR

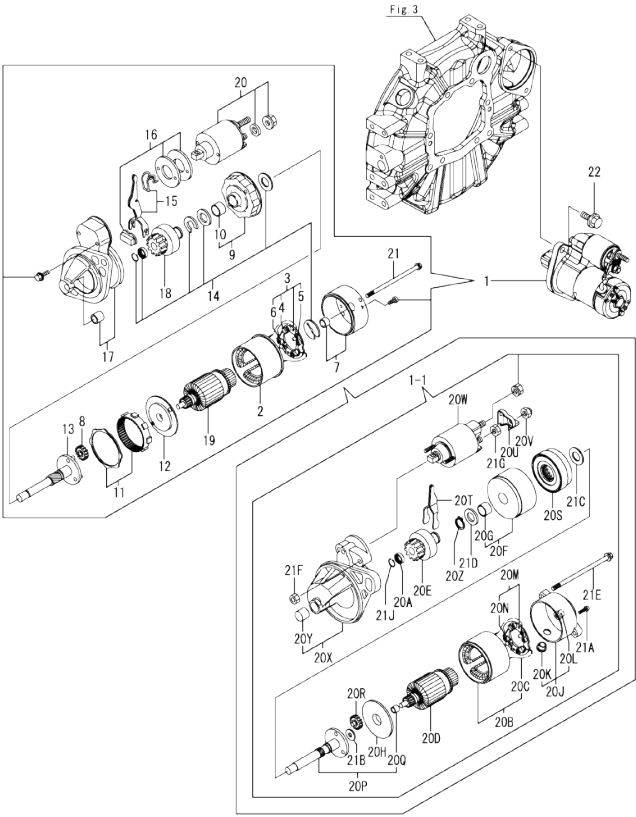
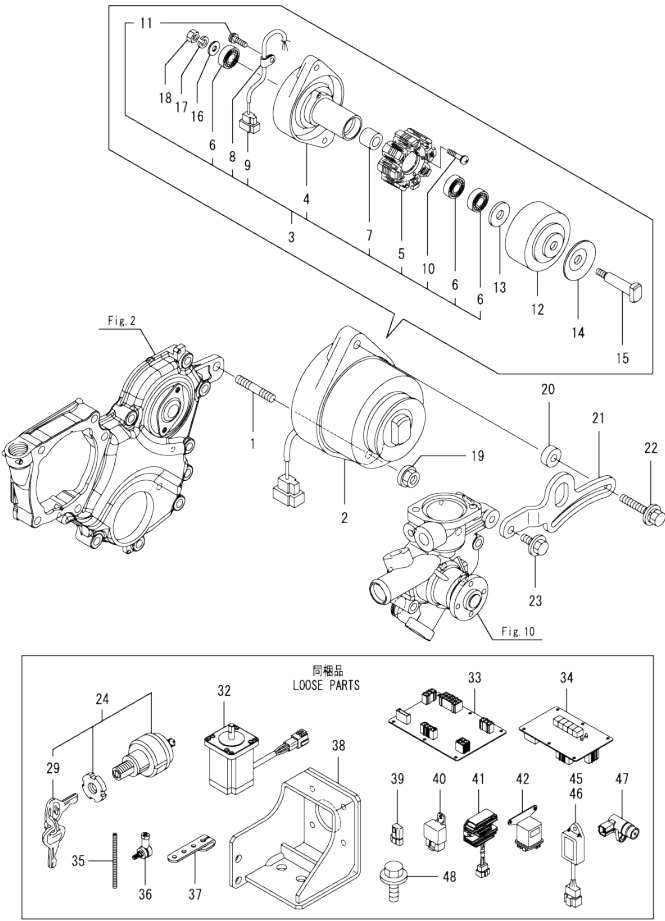


Fig.16. GENERATOR

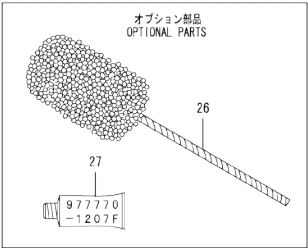
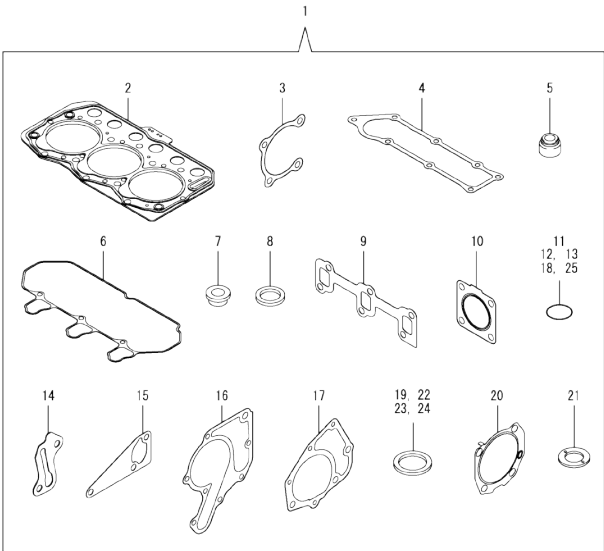


(A)=3TNM68-ASG
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	STUD	1							
2	1	171301-77201	DYNAMO ASSY, 15A	1							
3	2	XM08137	PLATE ASSY	1							
4	3	X2A07073KA	PLATE	1							
5	3	X4A07023KB	STATOR ASSY	1							
6	3	24104-062010	BEARING, 6201UUC3	3							
7	3	XM329830000	COLLAR	1							
8	3	XM069000000	CLAMP	1							
9	3	X417878	COUPLER	1							
10	3	XYSPS402400	SCREW	2							
11	3	XYSPS400800	SCREW	1							
12	2	X3A08877KA	FLYWHEEL	1							
13	2	XM67935	WASHER	1							
14	2	XM721740000	PULLEY	1							
15	2	X4A07403K01	SHAFT	1							
16	2	XM860250000	WASHER	1							
17	2	XM219230000	WASHER	1							
18	2	XM863720000	NUT	1							
19	1	26306-100002	NUT, M10	1							
20	1	119940-77270	SPACER, GENERATOR	1							
21	1	119540-77310	ADJUSTER	1							
22	1	129972-77341	BOLT, ADJUSTER L=50	1							
23	1	26106-080202	BOLT, M8X 20 PLATED	1							
24	1	194215-52110	SWITCH, STARTING	1							
29	2	194155-52160	KEY ASSY	1							
30	1	183012-66020	MOTOR	1							
31	1	183012-66030	DRIVE, MOTOR	1							
32	1	183012-66040	PANEL	1							
33	1	119128-66710	ROD	1							
34	1	119446-66740	JOINT	2							
35	1	119446-66800	LEVER	1							
36	1	119128-66820	BRACKET	1							
37	1	119643-66900	DIODE	1							
40	1	119247-77100	RELAY, SAFETY	5							
41	1	119225-77721	LIMITER, CURRENT 20A	1							
42	1	119650-77910	RELAY ASSY, GLOW	1							
45	1	129155-77925	TIMER	1							
46	1	129211-77920	TIMER	1							
47	1	124593-78500	PULSAR	1							
48	1	26106-100182	BOLT, M10X 18 PLATED	2							

Fig.17. GASKET SET



Remarks
(1)Optional parts.

										0CW10-M61000 Fig.17	
										(A)=3TNM68-ASG (B)= (C)=	
										(D)= (E)= (F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119125-92600	GASKET SET	1							1
2	2	119125-01330	GASKET, HEAD	1							
3	2	119125-01790	GASKET	1							
4	2	119125-11330	GASKET	1							
5	2	119125-11340	SEAL, VALVE STEM	6							
6	2	119125-11370	GASKET, BONNET	1							
7	2	129901-11450	PROTECTOR, NOZZLE	3							
8	2	119600-11460	GASKET, NOZZLE	6							
9	2	119125-13110	GASKET	1							
10	2	119515-13200	GASKET, SILENCER	1							
11	2	129900-32040	O-RING, P14	1							
12	2	119125-34900	O-RING	1							
13	2	119209-35030	O-RING, P11	1							
14	2	119125-39220	GASKET	1							
15	2	119260-42021	GASKET, WATER PUMP	1							
16	2	119275-42020	GASKET, WATER PUMP	1							
17	2	119125-42030	GASKET, WATER PUMP	1							
18	2	119209-42320	O-RING, P21 EPDM	1							
19	2	124465-44950	GASKET, 16	1							
20	2	119125-51800	GASKET	1							
21	2	129901-59560	GASKET	3							
22	2	22190-120002	WASHER, SEAL 12	5							
23	2	22190-160002	WASHER, SEAL 16	1							
24	2	23414-080000	GASKET, 8X1.0	1							
25	2	24311-000180	O-RING, 1AP18.0	2							
26	1	129400-92400	HONE	1							1
27	1	977770-1207F	GASKET.LIQUID	1							1

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