

0CW10-M78600EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNM72-APB1 for Polaris.

Pub. No. : 0CW10-G78600

Published : November, 2012

2. Model name

Engine model	Vehicle	Vehicle made by
3TNM72-APB1	UTV	Polaris

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
		(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.

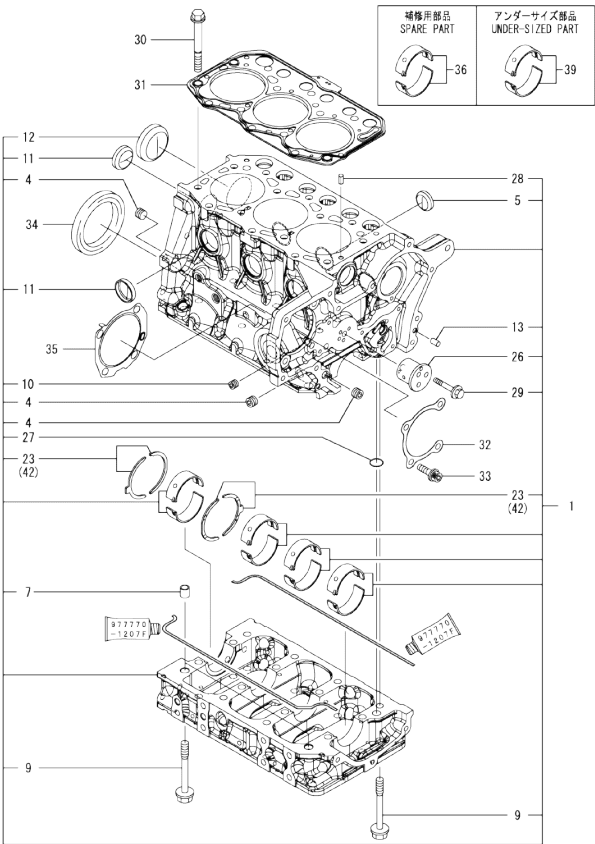
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4.	CYLINDER HEAD & BONNET		
5.	EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB. OIL SYSTEM		
9.	COOLING WATER SYSTEM		
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11.	GOVERNOR		
12.	FUEL INJECTION VALVE		
13.	STARTING MOTOR		
14.	GASKET SET		

0CW10-M78600 3TNM72-APB1

Fig.1. CYLINDER BLOCK



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

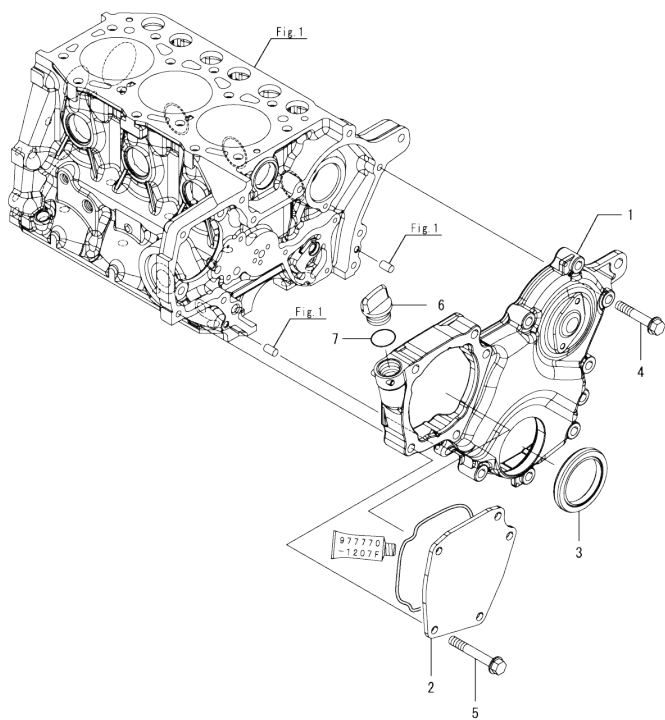
0CW10-M78600 Fig.1

(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119027-01560	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	129900-32040	O-RING, P14	1							
28	2	22351-060012	PIN, SPRING 6.0X12	2							
29	2	26106-060402	BOLT, M6X 40 PLATED	3							
30	1	119515-01200	BOLT, HEAD	14							
31	1	119025-01332	GASKET, HEAD	1							
32	1	119125-01790	GASKET	1							
33	1	119125-01800	FLANGE BOLT, M8X1.25	4							
34	1	119734-02220	SEAL, OIL	1							
35	1	119125-51800	GASKET	1							
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)=

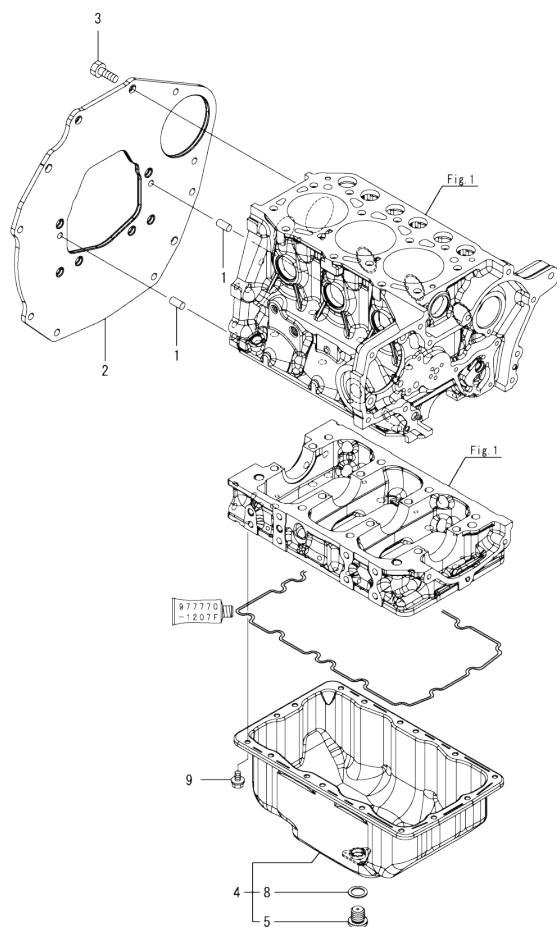
(D)=

$$(E) =$$
$$Q^{\#}$$
$$Q^{\#}$$
$$Q^{\#}$$

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119025-01500	CASE, GEAR	1							
2	1	119027-01550	COVER, PUMP TIMING	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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Fig.3. MOUNTING FLANGE & OIL SUMP



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

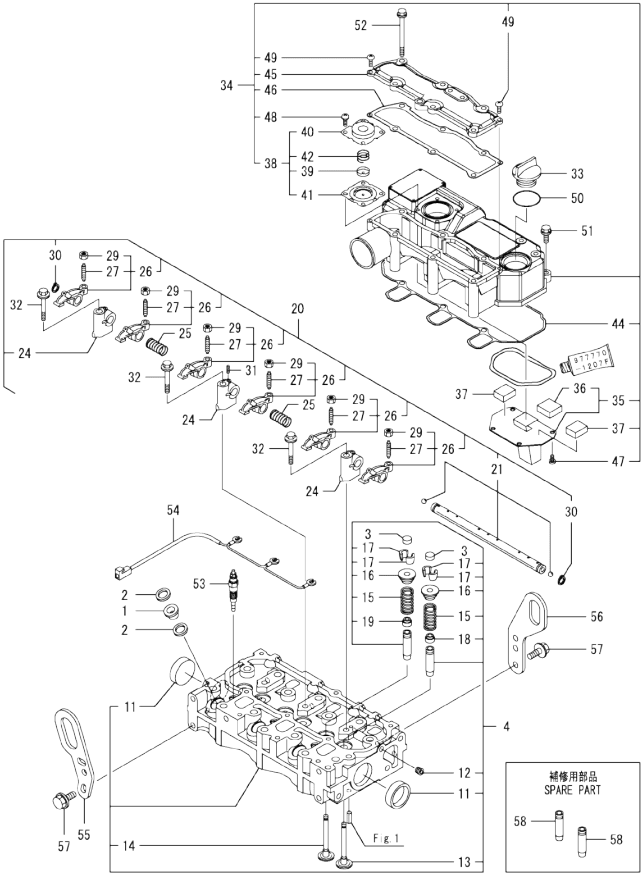
(A)=3TNM72-APB1
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, M8X16	2							
2	1	119027-01610	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	6							
4	1	119027-01780	OIL PAN ASSY	1							
5	2	119027-01650	PLUG, DRAIN 16	1							
8	2	22190-160002	WASHER, SEAL 16	1							
9	1	119125-01780	BOLT, M6X10	16							

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.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare part.

0CW10-M78600 Fig.4

(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129901-11450	PROTECTOR, NOZZLE	3							
2	1	119600-11460	GASKET, NOZZLE	6							
3	1	105010-11490	CAP, VALVE	6							
4	1	119517-11740	HEAD ASSY, CYLINDER	1							
11	2	119285-11990	PLUG, 35	2							
12	2	23876-005000	PLUG, R005	1							
13	2	119515-11101	VALVE, INTAKE	3							
14	2	119515-11110	VALVE, EXHAUST	3							
15	2	119717-11131	SPRING, VALVE	6							
16	2	129508-11180	RETAINER, SPRING	6							
17	2	119717-11190	COTTER	12							
18	2	119717-11340	SEAL, VALVE STEM	3							
19	2	119717-11350	SEAL, VALVE STEM	3							
20	1	119515-11200	SUPPORT ASSY, ARM	1							
21	2	119515-11240	SHAFT ASSY, ROCKER	1							
24	2	119717-11260	SUPPORT, ROCKER ARM	3							
25	2	119515-11280	SPRING	2							
26	2	119717-11650	ARM, ROCKER	6							
27	3	129150-11230	SCREW, VALVE ADJUST	6							
29	3	129150-11750	NUT, M8	6							
30	2	22242-000120	RING, 12	2							
31	2	26979-050162	SCREW, M5X16	1							
32	1	26106-080402	BOLT, M8X 40 PLATED	3							
33	1	124160-01751	COVER, FILLER	1							
34	1	119515-11380	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	119515-11310	GASKET, BONNET	1							
45	2	119515-11320	COVER, BONNET	1							
46	2	119515-11330	GASKET	1							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500100	SCREW, 5X10	4							
49	2	22857-500160	SCREW, 5X16	2							
50	1	24311-000320	O-RING, 1AP32.0	1							
51	1	26106-060202	BOLT, M6X 20 PLATED	3							
52	1	26106-060752	BOLT, M6X 75 PLATED	6							
53	1	119125-77800	PLUG, GLOW	3							
54	1	119125-77820	CONNECTOR, GLOW PLUG	1							
55	1	119626-07900	LIFTER	1							
56	1	129486-07901	LIFTER	1							
57	1	26106-080142	BOLT, M8X 14 PLATED	4							
58	1	119515-11800	GUIDE, VALVE	6							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. EXHAUST MANIFOLD



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

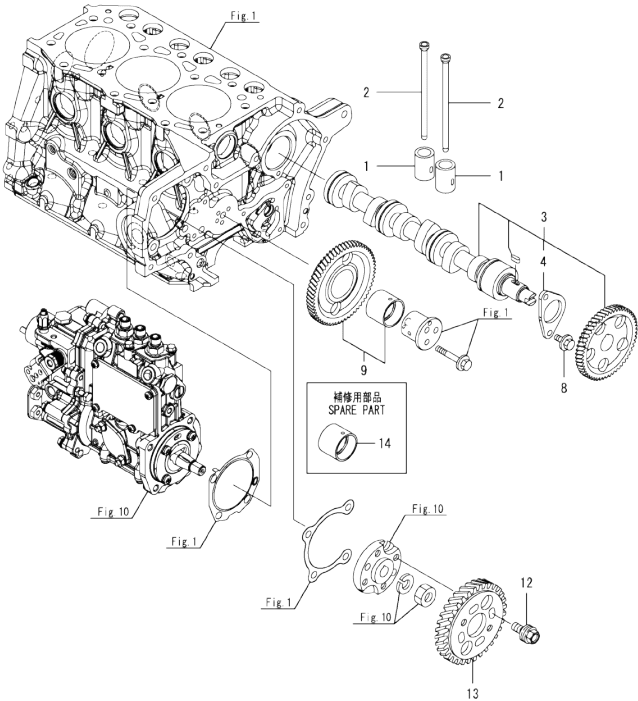
(A)=3TNM72-APB1
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I
1	1	119718-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET	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							

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.6. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare part.

0CW10-M78600 Fig.6

(A)=3TNM72-APB1
(B)=
(C)=

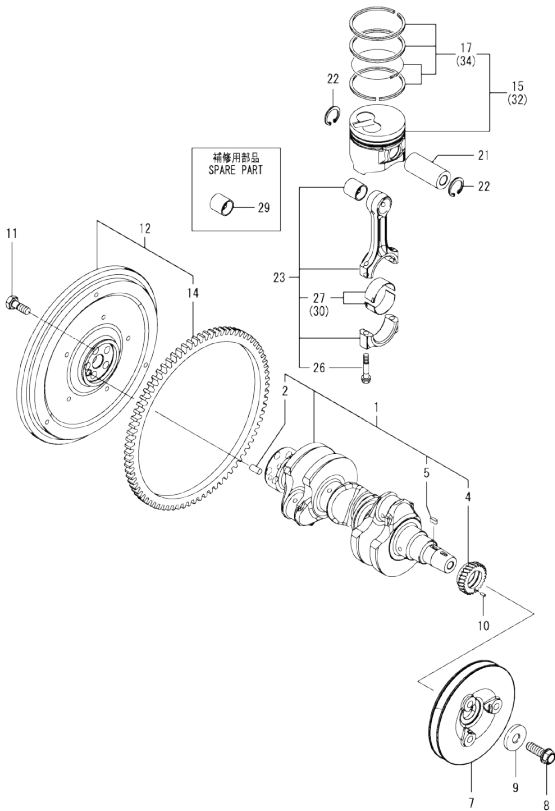
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	6							
2	1	119515-14400	ROD, PUSH	6							
3	1	119025-14580	CAMSHAFT ASSY	1							
4	2	119620-02450	BEARING, THRUST	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119025-25100	GEAR ASSY, IDLE	1							
12	1	129150-25301	BOLT	4							
13	1	119125-25930	GEAR, PUMP	1							
14	1	119125-25910	BUSH, IDLE GEAR	1							1

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.7. CRANKSHAFT & PISTON



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

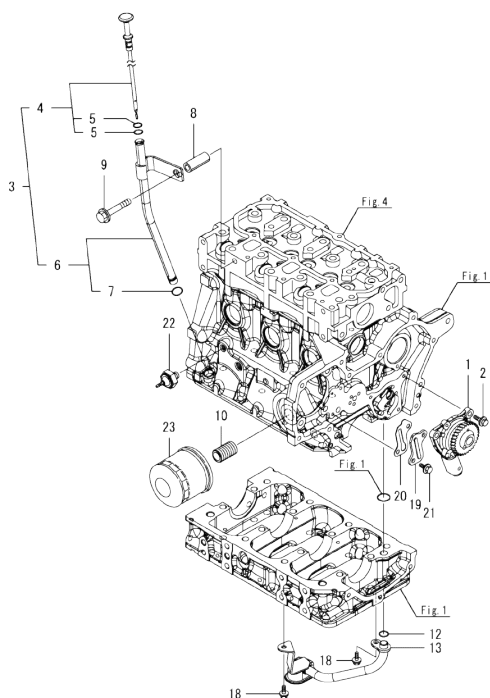
0CW10-M78600 Fig.7

(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119025-21700	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	119027-21660	V-PULLEY, CRANKSHAFT	1							
8	1	119621-21681	BOLT, FLANGE 12X1.25	1							
9	1	119620-21941	WASHER	1							
10	1	22351-030010	PIN, SPRING 3.0X10	1							
11	1	119620-21500	BOLT, FLYWHEEL	5							
12	1	119127-21590	FLYWHEEL ASSY	1							
14	2	124060-21600	GEAR, RING	1							
15	1	119517-22090	PISTON ASSY	3							
17	2	119517-22500	RING SET, PISTON	3							
21	1	119515-22300	PIN, PISTON	3							
22	1	22252-000220	RING, 22	6							
23	1	119515-23000	ROD ASSY, CONNECTING	3							
26	2	119717-23200	BOLT, CONNECTING ROD	6							
27	1	119515-23601	BEARING, CRANK PIN	3							
29	1	119717-23910	BEARING, PISTON PIN	3							1
30	1	119515-23611	METAL ASSY, 0.25	3							2
32	1	119025-22900	PISTON ASSY	3							3
34	2	119609-22950	RING SET, 0.25 OS	3							3

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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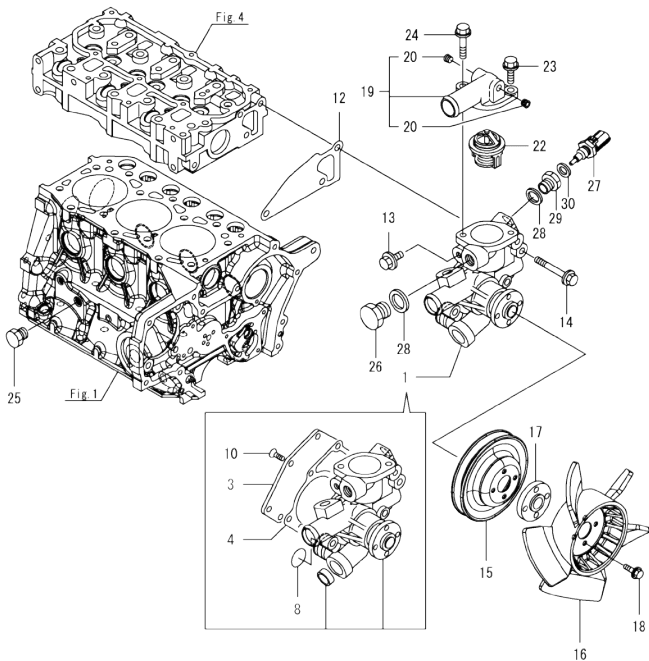
No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	119125-32000	PUMP ASSY, OIL	1						
2	1	26106-060142	BOLT, M6X 14 PLATED	3						
3	1	119027-34880	GUIDE ASSY, DIPSTICK	1						
4	2	119027-34810	DIPSTICK	1						
5	3	119125-34900	O-RING	2						
6	2	119027-34860	GUIDE, DIPSTICK	1						
7	3	24316-000090	O-RING, 4DP9.0	1						
8	1	129150-77340	SPACER	1						
9	1	26106-080502	BOLT, M8X 50 PLATED	1						
10	1	119717-35140	BOLT	1						
12	1	119209-35030	O-RING, P11	1						
13	1	119025-35091	PIPE ASSY, OIL INLET	1						
18	1	26106-060102	BOLT, M6X 10 PLATED	2						
19	1	119125-39200	COVER	1						
20	1	119125-39220	GASKET	1						
21	1	26106-060102	BOLT, M6X 10 PLATED	2						
22	1	114250-39450	SWITCH, 0.5KG	1						
23	1	119305-35151	FILTER ASSY, D68XL65	1						

Remarks
(1) Spare part.

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.9. COOLING WATER SYSTEM



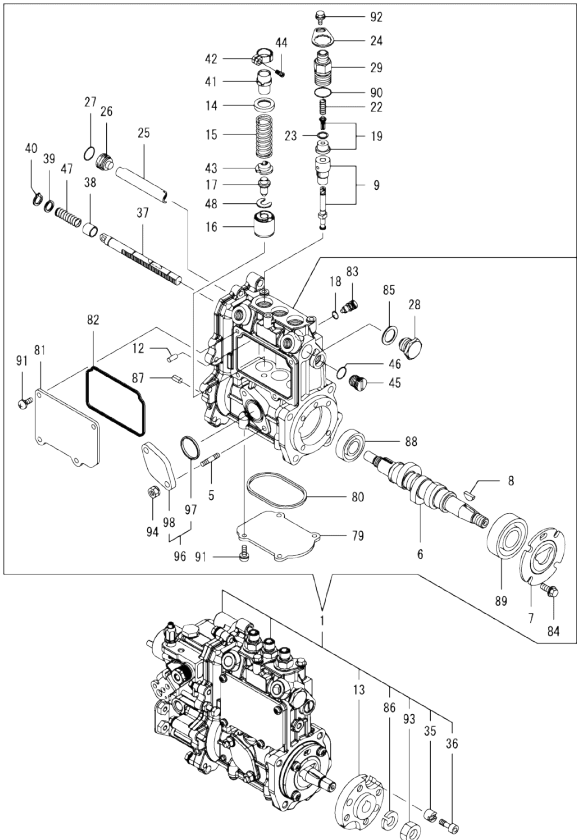
(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119025-42000	PUMP ASSY, WATER	1							
3	2	119025-42020	COVER	1							
4	2	119025-42030	GASKET, WATER PUMP	1							
8	2	119685-42281	O-RING	1							
10	2	26577-060122	SCREW, M6X12	5							
12	1	119515-42020	GASKET, WATER PUMP	1							
13	1	26106-080122	BOLT, M8X 12 PLATED	1							
14	1	26106-080452	BOLT, M8X 45 PLATED	3							
15	1	119027-42350	V-PULLEY, D=120	1							
16	1	119027-44740	FAN, D192	1							
17	1	124574-44761	SPACER, FAN	1							
18	1	26106-060202	BOLT, M6X 20 PLATED	4							
19	1	119718-49550	COVER ASSY	1							
20	2	119285-01731	PLUG, NPT1/8	2							
22	1	119717-49800	THERMOSTAT, 71	1							
23	1	26106-080202	BOLT, M8X 20 PLATED	1							
24	1	26106-080302	BOLT, M8X 30 PLATED	1							
25	1	171056-49120	PLUG, DRAIN	1							
26	1	121450-42450	PLUG, M16	1							
27	1	129927-44900	SENSOR	1							
28	1	124465-44950	GASKET, 16	2							
29	1	129974-49350	JOINT	1							
30	1	22190-120002	WASHER, SEAL 12	1							

0CW10-M78600 3TNM72-APB1

Fig.10. FUEL INJECTION PUMP



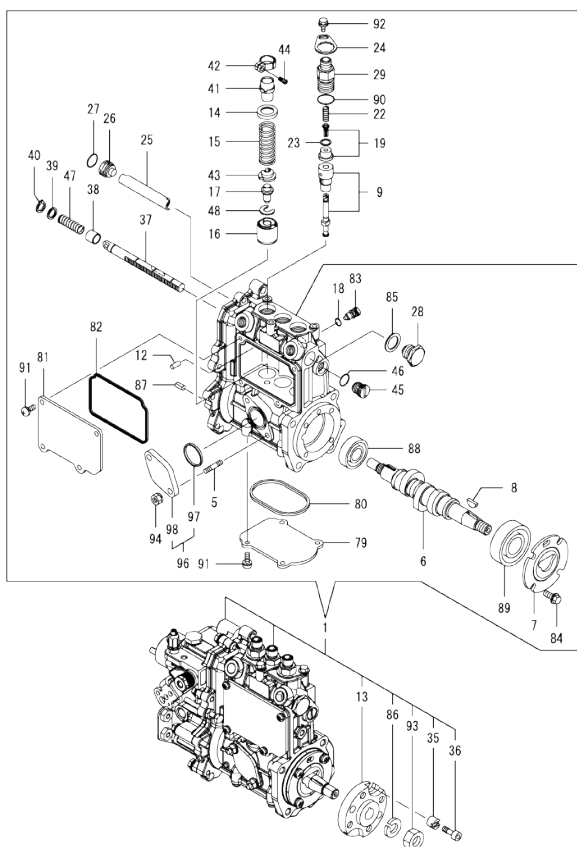
Remarks
(1)Governor(Fig.11)is incorporated in this Fuel Injection Pump (Ref.1).

0CW10-M78600 Fig.10

(A)=3TNM72-APB1
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719027-51350	FIE ASSY	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	119125-51370	RETAINER	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	119125-51481	COLLAR,FIC FIX	1							
36	2	119125-51491	BOLT, FIXATION	1							
37	2	119717-51500	RACK, CONTROL	1							
38	2	119025-51520	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							
79	2	119125-51700	COVER	1							
80	2	119717-51711	GASKET	1							
81	2	119717-51750	COVER	1							
82	2	119717-51761	GASKET	1							
83	2	158600-51790	STOOPER, RACK	1							
84	2	119125-51900	BOLT, 6 X 14	4							
85	2	22190-160002	WASHER, SEAL 16	1							
86	2	22217-120000	WASHER, SPRING 12	1							
87	2	22351-050010	PIN, SPRING 5.0X10	2							
88	2	24101-060034	BEARING, BALL 6003	1							
89	2	24101-063034	BEARING, BALL 6303	1							
90	2	24316-000150	O-RING, 4DP15.0	3							
91	2	26022-050122	SCREW, M5X12	8							
92	2	26106-050102	BOLT, M5X 10 PLATED	3							
93	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.11)is incorporated in this Fuel Injection Pump (Ref.1).

(A)=3TNM72-APB1
(B)=
(C)=

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

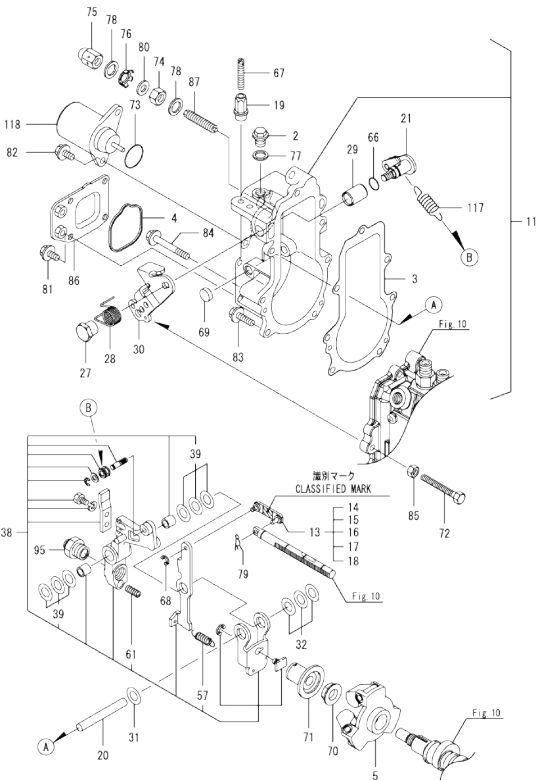
Q

(c)

(c)

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
94	2	119717-51860	NUT, M6	2							
96	2	129255-52000	COVER ASSY	1							
97	3	129155-52051	GASKET	1							
98	3	129100-52200	COVER	1							

Fig.11. GOVERNOR



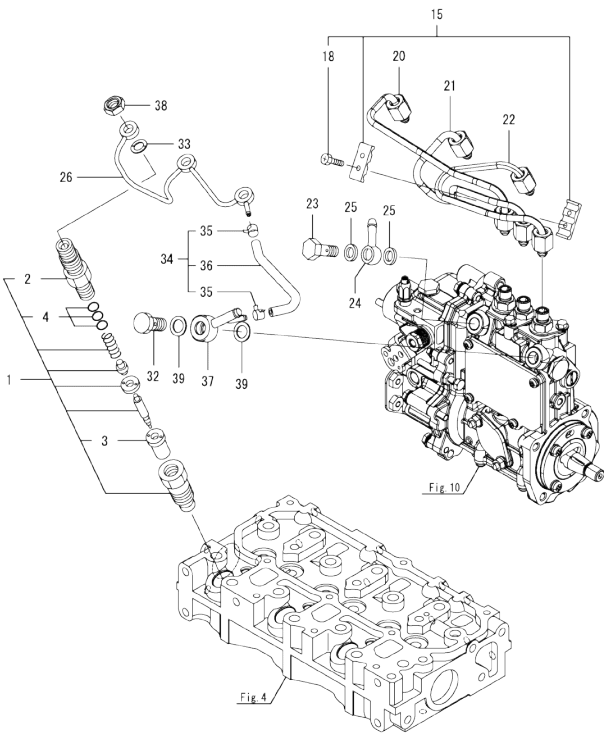
Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.10).
(1)Selective parts, mark: 93
(2)Selective parts, mark: 98
(3)Selective parts, mark: 88
(4)Selective parts, mark: 00
(5)Selective parts, mark: 03

(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-51930	PLUG,M10	1							
3	2	119717-61050	GASKET	1							
4	2	119717-61070	GASKET	1							
5	2	119125-61201	WEIGHT ASSY,GOVERNOR	1							
11	2	119027-61300	CASE ASSY, GOVERNOR	1							
13	3	119125-61110	LINK ASSY	1							
14	4	119125-61120	LINK, MARK 93	1							1
15	4	119125-61130	LINK, MARK 98	1							2
16	4	119125-61140	LINK, MARK 88	1							3
17	4	119125-61150	LINK, MARK 00	1							4
18	4	119125-61160	LINK, MARK 03	1							5
19	3	129209-61370	NUT, M6	1							
20	3	119125-61390	SHAFT	1							
21	3	119125-61401	SHAFT ASSY	1							
27	3	129255-61410	NUT, LOCK	1							
28	3	119527-61420	SPRING	1							
29	3	119125-61430	BUSH	1							
30	3	119515-61440	LEVER, CONTROL	1							
31	3	129156-61460	SHIM, T=0.6	1							
32	3	129155-61480	SPACER ASSY	1							
38	3	119127-61500	LEVER ASSY, GOVERNOR	1							
39	4	174307-51700	SHIM SET	2							
57	4	129486-61540	SPRING, SET	1							
61	4	129486-61650	SPRING, STARTING	1							
66	3	129155-61830	O-RING, S10	1							
67	3	121575-66830	SCREW	1							
68	3	22272-000030	RING, E- 3	1							
69	3	27260-120000	PLUG, 12	1							
70	2	129008-61301	NUT	1							
71	2	129155-61341	SLEEVE	1							
72	2	129155-61460	BOLT, IDLE	1							
73	2	158552-61900	O-RING	1							
74	2	129209-61920	NUT, ARB	1							
75	2	129209-61930	NUT, CAP	1							
76	2	129209-61970	PLATE	1							
77	2	22190-100002	WASHER, SEAL 10	1							
78	2	22190-120002	WASHER, SEAL 12	2							
79	2	22372-040000	PIN, SNAP 4	1							
80	2	23414-120016	GASKET, 12X1.0	1							
81	2	26106-060102	BOLT, M6X 10 PLATED	4							
82	2	26106-060142	BOLT, M6X 14 PLATED	2							
83	2	26106-060202	BOLT, M6X 20 PLATED	4							
84	2	26106-060452	BOLT, M6X 45 PLATED	3							
85	2	26756-060002	NUT, LOCK M6	1							
86	2	119761-61060	COVER, GOVERNOR CASE	1							
87	2	119125-61450	LIMITER ASSY, FUEL	1							
95	2	119515-61560	ANGLEICH ASSY	1							
117	2	119415-61700	SPRING, GOVERNOR	1							
118	2	119233-77932	SOLENOID, STOP	1							

Fig.12. FUEL INJECTION VALVE



(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	3							
2	2	118200-53010	HOLDER, NOZZLE	3							
3	2	119515-53010	VALVE ASSY,INJECTION	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							1
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119025-59810	PIPE, FUEL INJECTION	1							
21	1	119025-59820	PIPE, FUEL INJECTION	1							
22	1	119025-59830	PIPE, FUEL INJECTION	1							
23	1	103854-39140	BOLT, PIPE JOINT	1							
24	1	101304-59020	JOINT, PIPE 12	1							
25	1	22190-120002	WASHER, SEAL 12	2							
26	1	119515-59540	PIPE ASSY, RETURN	1							
32	1	119125-59560	BOLT, PIPE JOINT	1							
33	1	129901-59560	GASKET	3							
34	1	119125-59570	PIPE ASSY, RETURN	1							
35	2	124066-59100	CLIP, HOSE 8	2							
36	2	119000-59550	PIPE, FUEL RETURN	1							
37	1	119840-59570	JOINT	1							
38	1	119620-59700	NUT, NOZZLE	3							
39	1	22190-120002	WASHER, SEAL 12	3							

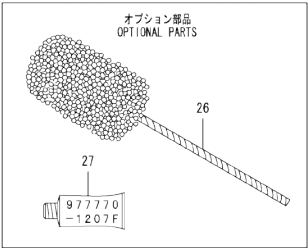
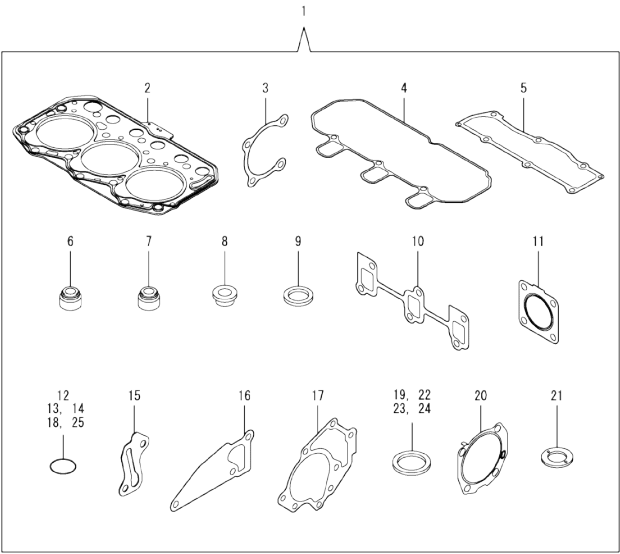
Remarks
(1)Spare part.



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119125-77010	STARTER ASSY, 1.2KW	1							
2	2	129698-77110	YOKE ASSY	1							
3	2	129698-77120	HOLDER ASSY, BRUSH	1							
4	3	129698-77130	BRUSH		2						
5	3	129698-77140	BRUSH SET		1						
6	3	129698-77150	SPRING, BRUSH		4						
7	2	129698-77161	COVER ASSY	1							
8	2	119125-77170	GEAR		3						
9	2	129698-77180	BRACKET	1							
10	3	129698-77190	BRACKET	1							
11	2	119125-77200	GEAR, INTERNAL		1						
12	2	119125-77210	BRACKET	1							
13	2	119125-77230	SHAFT, PINION		1						
14	2	129698-77250	WASHER SET		1						
15	2	119125-77270	LEVER SET, SHIFT		1						
16	2	119125-77280	COVER ASSY	1							
17	2	119125-77520	CASE ASSY, GEAR		1						
18	2	119125-77660	PINION ASSY	1							
19	2	119125-77710	ARMATURE ASSY	1							
20	2	119125-77760	SWITCH ASSY	1							
21	2	124195-77770	BOLT, THROUGH	2							
22	1	26106-100402	BOLT, M10X 40 PLATED	2							

0CW10-M78600 3TNM72-APB1

Fig.14. GASKET SET



Remarks
(1)Optional parts.

0CW10-M78600 Fig.14

(A)=3TNM72-APB1
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119025-92600	GASKET SET	1							1
2	2	119025-01332	GASKET, HEAD	1							
3	2	119125-01790	GASKET	1							
4	2	119515-11310	GASKET, BONNET	1							
5	2	119515-11330	GASKET	1							
6	2	119717-11340	SEAL, VALVE STEM	3							
7	2	119717-11350	SEAL, VALVE STEM	3							
8	2	129901-11450	PROTECTOR, NOZZLE	3							
9	2	119600-11460	GASKET, NOZZLE	6							
10	2	119717-13110	GASKET	1							
11	2	119515-13200	GASKET, SILENCER	1							
12	2	129900-32040	O-RING, P14	1							
13	2	119125-34900	O-RING	1							
14	2	119209-35030	O-RING, P11	1							
15	2	119125-39220	GASKET	1							
16	2	119515-42020	GASKET, WATER PUMP	1							
17	2	119025-42030	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	129400-92410	HONE	1							1
27	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.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.
101304-59020	12	24	119125-25930	6	13	119209-35030	14	14	119717-03031	4	35
103854-39140	12	23	119125-32000	8	1	119209-42320	14	18	119717-03070	4	36
105010-11490	4	3	119125-34900	8	5	119233-77932	11	118			37
106760-01770	2	6		14	13	119285-01731	9	20	119717-11131	4	15
114250-39450	8	22	119125-39200	8	19	119285-11990	4	11	119717-11190	4	17
118200-53010	12	2	119125-39220	8	20	119305-35151	8	23	119717-11260	4	24
119000-59550	12	36		14	15	119415-61700	11	117	119717-11340	4	18
119025-01332	1	31	119125-51030	10	6	119515-01200	1	30		14	6
	14	2	119125-51060	10	7	119515-11101	4	13	119717-11350	4	19
119025-01500	2	1	119125-51100	10	9	119515-11110	4	14		14	7
119025-14580	6	3	119125-51241	10	16	119515-11200	4	20	119717-11650	4	26
119025-21700	7	1	119125-51250	10	17	119515-11240	4	21	119717-13110	5	2
119025-22900	7	32	119125-51300	10	19	119515-11280	4	25		14	10
119025-25100	6	9	119125-51370	10	24	119515-11310	4	44	119717-13600	5	3
119025-35091	8	13	119125-51481	10	35		14	4	119717-23200	7	26
119025-42000	9	1	119125-51491	10	36	119515-11320	4	45	119717-23910	7	29
119025-42020	9	3	119125-51700	10	79	119515-11330	4	46	119717-35140	8	10
119025-42030	9	4	119125-51800	1	35		14	5	119717-49800	9	22
	14	17		14	20	119515-11380	4	34	119717-51150	10	13
119025-51520	10	38	119125-51900	10	84	119515-11800	4	58	119717-51190	10	15
119025-59810	12	20	119125-59560	12	32	119515-13200	14	11	119717-51420	10	27
119025-59820	12	21	119125-59570	12	34	119515-14400	6	2	119717-51500	10	37
119025-59830	12	22	119125-61110	11	13	119515-22300	7	21	119717-51570	10	43
119025-92600	14	1	119125-61120	11	14	119515-23000	7	23	119717-51711	10	80
119027-01550	2	2	119125-61130	11	15	119515-23601	7	27	119717-51750	10	81
119027-01560	1	1	119125-61140	11	16	119515-23611	7	30	119717-51761	10	82
119027-01610	3	2	119125-61150	11	17	119515-42020	9	12	119717-51860	10	94
119027-01650	3	5	119125-61160	11	18		14	16	119717-51930	11	2
119027-01780	3	4	119125-61201	11	5	119515-53001	12	1	119717-61050	11	3
119027-21660	7	7	119125-61390	11	20	119515-53010	12	3	119717-61070	11	4
119027-34810	8	4	119125-61401	11	21	119515-59540	12	26	119718-13100	5	1
119027-34860	8	6	119125-61430	11	29	119515-61440	11	30	119718-49550	9	19
119027-34880	8	3	119125-61450	11	87	119515-61560	11	95	119734-02220	1	34
119027-42350	9	15	119125-77010	13	1	119517-11740	4	4	119761-61060	11	86
119027-44740	9	16	119125-77170	13	8	119517-22090	7	15	119802-03100	4	38
119027-61300	11	11	119125-77200	13	11	119517-22500	7	17	119802-03110	4	39
119125-01780	3	9	119125-77210	13	12	119527-61420	11	28	119802-03121	4	40
119125-01790	1	32	119125-77230	13	13	119600-11460	4	2	119802-03131	4	41
	14	3	119125-77270	13	15		14	9	119802-03141	4	42
119125-01800	1	33	119125-77280	13	16	119609-22950	7	34	119802-13620	5	4
119125-01960	1	7	119125-77520	13	17	119620-01620	1	13	119840-59570	12	37
119125-01970	1	5	119125-77660	13	18	119620-02450	6	4	121450-42450	9	26
119125-02061	1	9	119125-77710	13	19	119620-14200	6	1	121575-66830	11	67
119125-02900	1	36	119125-77760	13	20	119620-21500	7	11	122710-51090	10	8
119125-02910	1	39	119125-77800	4	53	119620-21941	7	9	124060-01050	1	4
119125-02930	1	23	119125-77820	4	54	119620-59700	12	38	124060-21600	7	14
119125-02940	1	42	119127-21590	7	12	119621-21681	7	8	124066-59100	12	35
119125-21200	7	4	119127-61500	11	38	119626-07900	4	55	124160-01751	4	33
119125-25050	1	26	119131-18320	5	5	119685-42281	9	8	124195-77770	13	21
119125-25910	6	14	119209-35030	8	12	119717-01800	2	3	124465-44950	9	28

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124550-51350	10	23
124574-44761	9	17
128990-51330	10	22
129008-61301	11	70
129100-01580	3	1
	7	2
129100-51560	10	42
129100-51570	10	44
129100-52200	10	98
129150-11230	4	27
129150-11750	4	29
129150-25301	6	12
129150-59120	12	15
129150-59131	12	18
129150-77340	8	8
129155-51020	10	5
129155-51140	10	12
129155-51280	10	18
129155-51400	10	25
129155-51530	10	39
129155-51540	10	40
129155-51550	10	41
129155-51580	10	46
129155-51591	10	47
129155-51600	10	48
129155-52051	10	97
129155-61341	11	71
129155-61460	11	72
129155-61480	11	32
129155-61830	11	66
129156-61460	11	31
129209-61370	11	19
129209-61920	11	74
129209-61930	11	75
129209-61970	11	76
129255-52000	10	96
129255-61410	11	27
129400-92410	14	26
129486-07901	4	56
129486-61540	11	57
129486-61650	11	61
129508-11180	4	16
129698-77110	13	2
129698-77120	13	3
129698-77130	13	4
129698-77140	13	5
129698-77150	13	6
129698-77161	13	7
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129698-77190	13	10
129698-77250	13	14
129900-32040	1	27
	14	12
129901-11450	4	1
	14	8
129901-53800	12	4
129901-59560	12	33
	14	21
129927-44900	9	27
129974-49350	9	29
158552-61900	11	73
158600-51170	10	14
158600-51410	10	26
158600-51420	10	28
158600-51442	10	29
158600-51570	10	45
158600-51790	10	83
171056-49120	9	25
174307-51700	11	39
22190-100002	11	77
22190-120002	9	30
	11	78
	12	25
	39	
	14	22
22190-160002	3	8
	10	85
	14	23
22217-120000	10	86
22242-000120	4	30
22252-000220	7	22
22272-000030	11	68
22351-030010	7	10
22351-050010	10	87
22351-060012	1	28
22372-040000	11	79
22512-040120	7	5
22857-500100	4	47
	48	
22857-500160	4	49
23414-080000	14	24
23414-120016	11	80
23876-005000	1	10
	4	12
24101-060034	10	88
24101-063034	10	89
24311-000180	2	7
	14	25
24311-000320	4	50

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24316-000090	8	7
24316-000150	10	90
26022-050122	10	91
26106-050102	10	92
26106-060102	8	18
	21	
	11	81
26106-060122	6	8
26106-060142	8	2
	11	82
26106-060202	4	51
	9	18
	11	83
26106-060402	1	29
26106-060452	11	84
26106-060752	4	52
26106-080122	9	13
26106-080142	4	57
26106-080202	9	23
26106-080302	9	24
26106-080352	2	4
26106-080402	4	32
26106-080452	2	5
	9	14
26106-080502	8	9
26106-100402	13	22
26206-100202	3	3
26306-080002	5	6
26577-060122	9	10
26716-120002	10	93
26756-060002	11	85
26979-050162	4	31
27241-300000	1	11
27241-450000	1	12
27260-120000	11	69
719027-51350	10	1
977770-1207F	14	27

Parts No.	Fig. No.	Ref. No.
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