

0CW10-M78200EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNM72-APB for POLARIS.

Pub.No. : 0CW10-G78200

Published : October, 2012

2. Model name

Engine model	Vehicle	Vehicle made by
3TNM72-APB	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	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 $\xrightarrow{\text{No}}$	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

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.

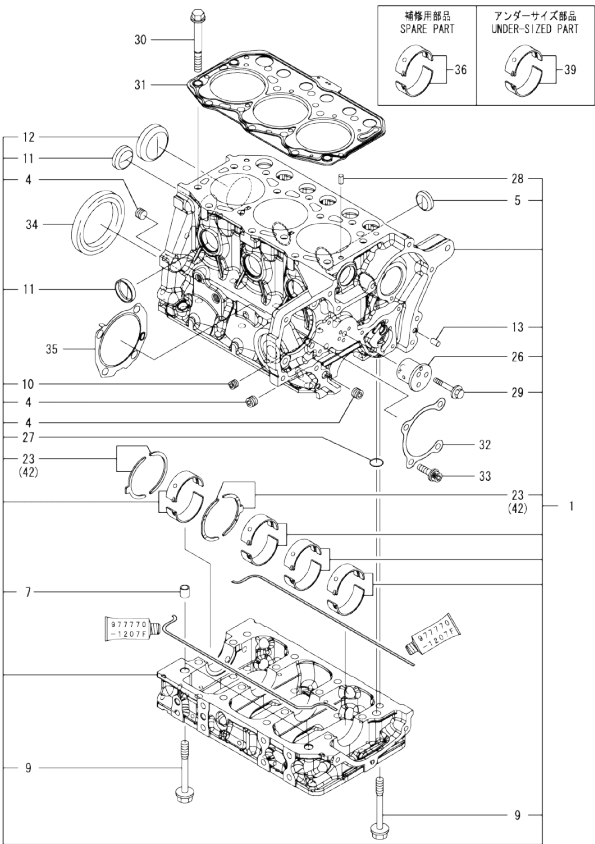
Contents

0CW10-M78200

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNM72-APB			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	MOUNTING FLANGE & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB. OIL SYSTEM		
9.	COOLING WATER SYSTEM		
10.	FUEL INJECTION PUMP		
11.	GOVERNOR		
12.	FUEL INJECTION VALVE		
13.	STARTING MOTOR		
14.	GASKET SET		

0CW10-M78200 3TNM72-APB

Fig.1. CYLINDER BLOCK



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

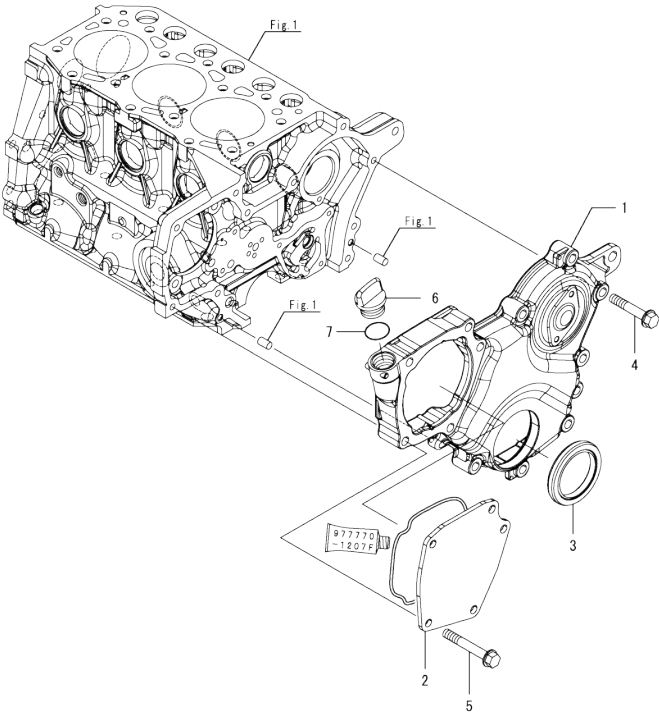
0CW10-M78200 Fig.1

(A)=3TNM72-APB
(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

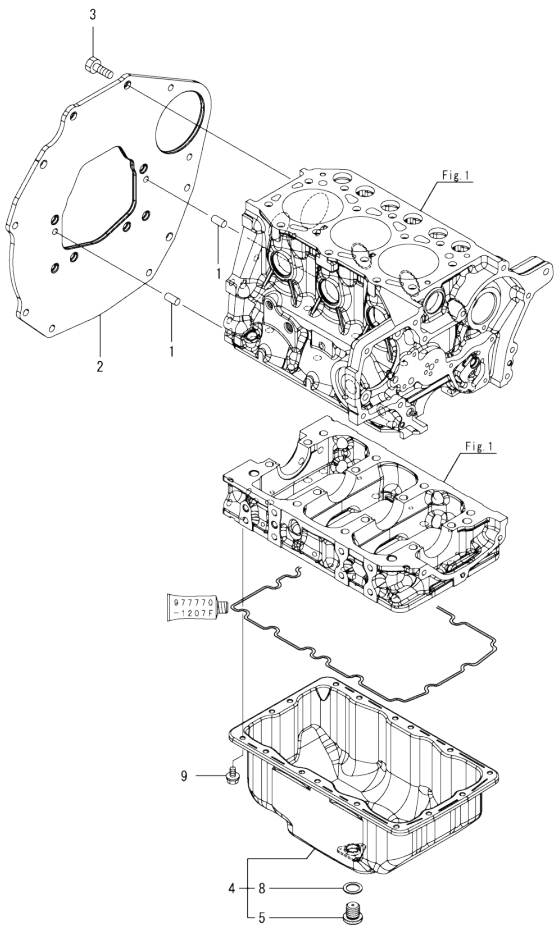
0CW10-M78200 3TNM72-APB
Fig.2. GEAR HOUSING



				(A)=3TNM72-APB	(D)=	0CW10-M78200		Fig.2			
				(B)=	(E)=						
				(C)=	(F)=						
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							

0CW10-M78200 3TNM72-APB

Fig.3. MOUNTING FLANGE & OIL SUMP



0CW10-M78200 Fig.3

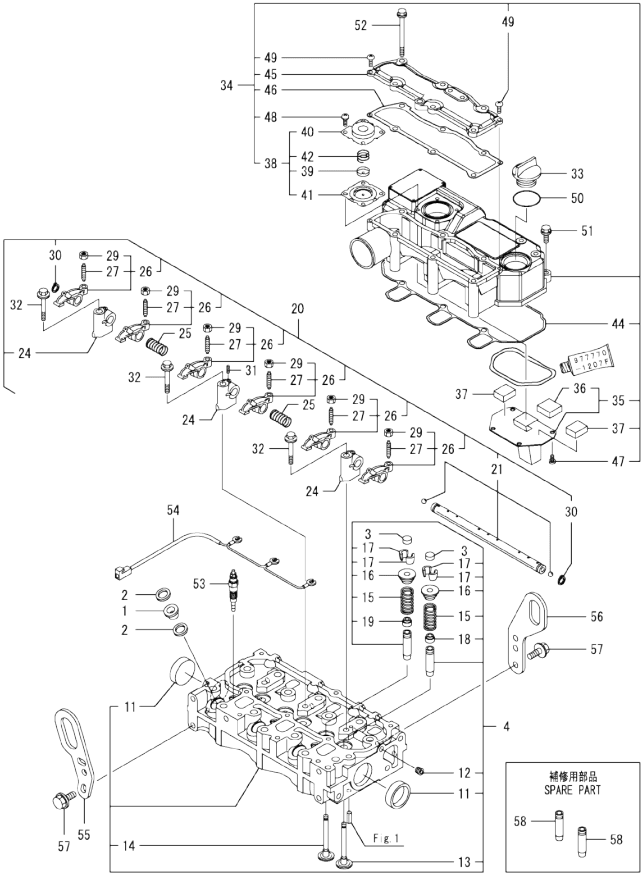
(A)=3TNM72-APB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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 $\frac{Y00}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{Y00}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.4. CYLINDER HEAD & BONNET



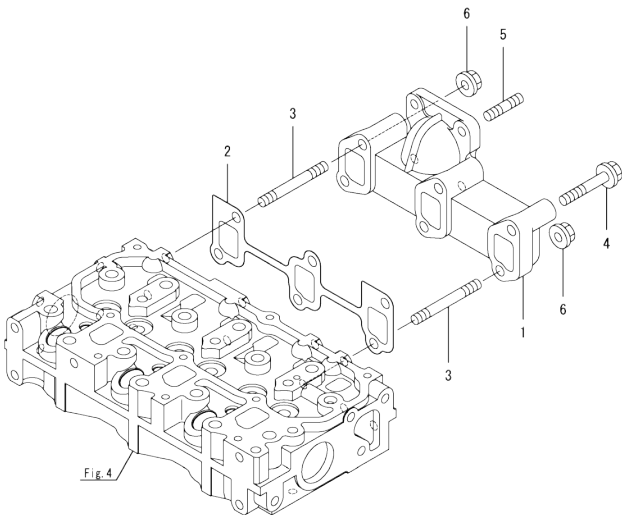
Remarks
(1)Spare part.

(A)=3TNM72-APB
(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

Fig.5. EXHAUST MANIFOLD



0CW10-M78200 Fig.5

(A)=3TNM72-APB

(D)=

(B)=

(E)=

(C)=

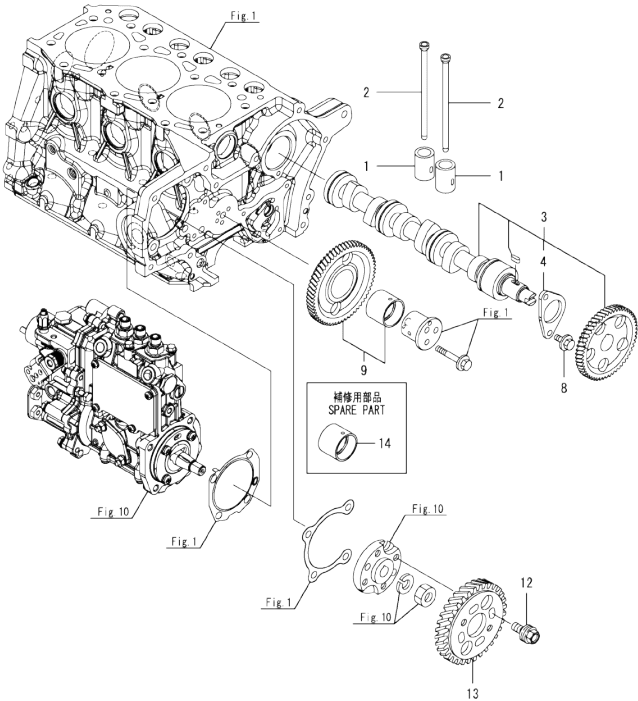
(F)=

Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
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					
						</			

Fig.6. CAMSHAFT & DRIVING GEAR

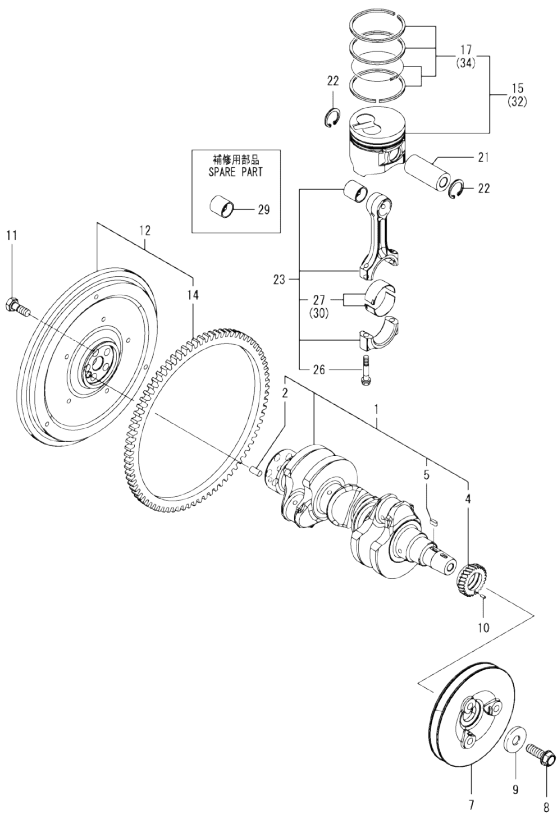


Remarks
(1)Spare part.

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

0CW10-M78200 3TNM72-APB

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-M78200 Fig.7

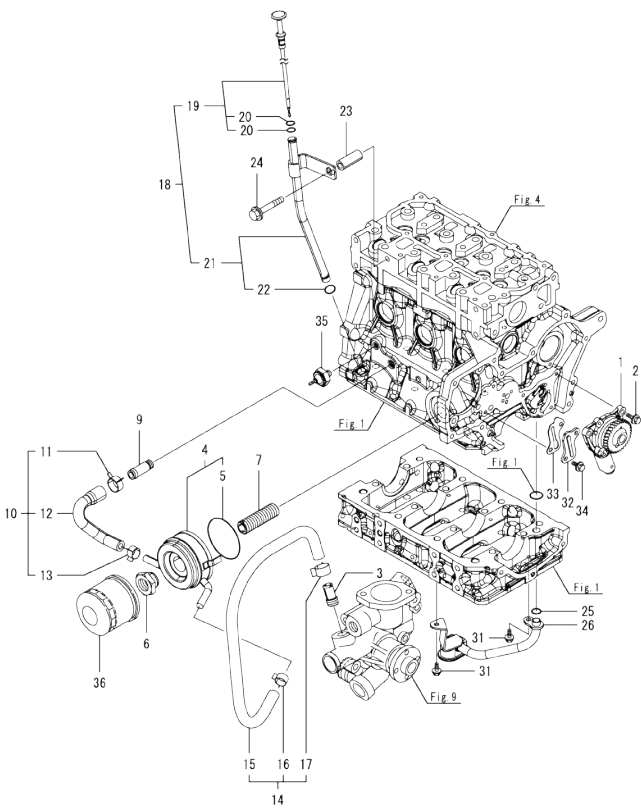
(A)=3TNM72-APB
(B)=
(C)=

(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

0CW10-M78200 3TNM72-APB

Fig.8. LUB. OIL SYSTEM



0CW10-M78200 Fig.8

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

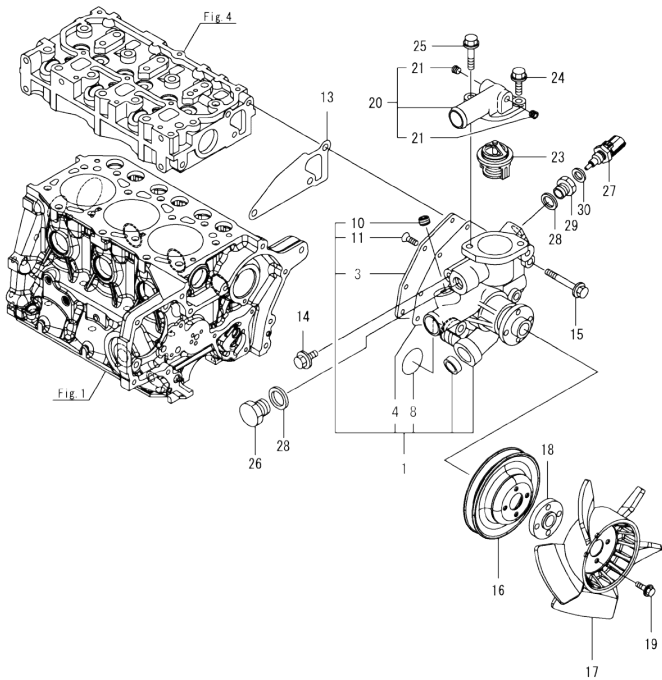
(D)=
(E)=
(F)=

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	121851-11970	JOINT, PIPE	1							
4	1	119717-33010	COOLER, OIL	1							
5	2	129508-33050	O-RING	1							
6	1	129417-33111	NUT, OIL COOLER	1							
7	1	129417-35150	STUD, L=67	1							
9	1	129122-44480	JOINT	1							
10	1	119027-49020	PIPE ASSY, WATER	1							
11	2	171008-03990	CLIP, HOSE 18.5	1							
12	2	119027-49010	PIPE, WATER COOLER IN	1							
13	2	23080-015000	CLAMP, 15	1							
14	1	119743-49030	PIPE ASSY, CW	1							
15	2	119743-49010	PIPE, WATER	1							
16	2	23080-015000	CLAMP, 15	1							
17	2	23080-018000	CLAMP, 18	1							
18	1	119027-34880	GUIDE ASSY, DIPSTICK	1							
19	2	119027-34810	DIPSTICK	1							
20	3	119125-34900	O-RING	2							
21	2	119027-34860	GUIDE, DIPSTICK	1							
22	3	24316-000090	O-RING, 4DP9.0	1							
23	1	129150-77340	SPACER	1							
24	1	26106-080502	BOLT, M8X 50 PLATED	1							
25	1	119209-35030	O-RING, P11	1							
26	1	119025-35091	PIPE ASSY, OIL INLET	1							
31	1	26106-060102	BOLT, M6X 10 PLATED	2							
32	1	119125-39200	COVER	1							
33	1	119125-39220	GASKET	1							
34	1	26106-060102	BOLT, M6X 10 PLATED	2							
35	1	114250-39450	SWITCH, 0.5KG	1							
36	1	119305-35151	FILTER ASSY, D68XL65	1							1

Remarks
(1)Spare part.

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.9. COOLING WATER SYSTEM

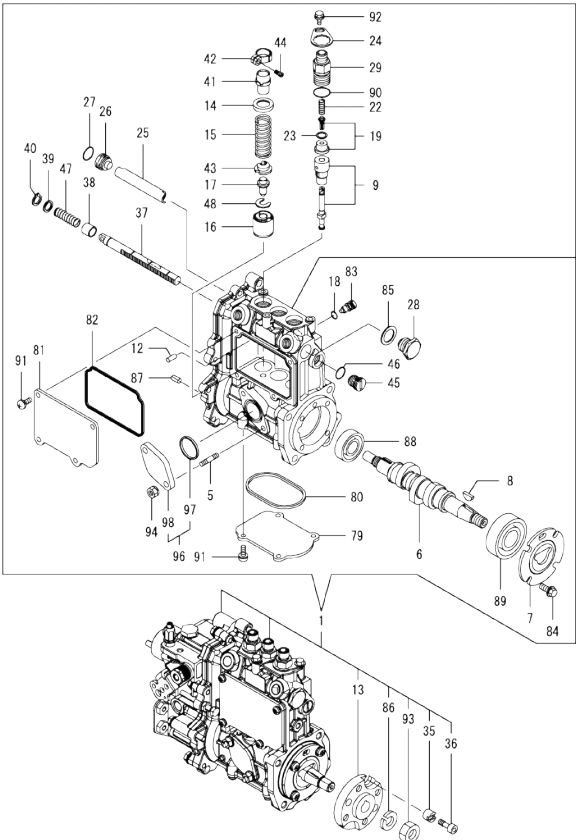


(A)=3TNM72-APB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119027-42000	PUMP ASSY, CW	1							
3	2	119025-42020	COVER	1							
4	2	119025-42030	GASKET, WATER PUMP	1							
8	2	119685-42281	O-RING	1							
10	2	129916-49740	PLUG, R03	1							
11	2	26577-060122	SCREW, M6X12	5							
13	1	119515-42020	GASKET, WATER PUMP	1							
14	1	26106-080122	BOLT, M8X 12 PLATED	1							
15	1	26106-080452	BOLT, M8X 45 PLATED	3							
16	1	119027-42350	V-PULLEY, D=120	1							
17	1	119027-44740	FAN, D192	1							
18	1	124574-44761	SPACER, FAN	1							
19	1	26106-060202	BOLT, M6X 20 PLATED	4							
20	1	119718-49550	COVER ASSY	1							
21	2	119285-01731	PLUG, NPT1/8	2							
23	1	119717-49800	THERMOSTAT, 71	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	1							
25	1	26106-080302	BOLT, M8X 30 PLATED	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							

Fig.10. FUEL INJECTION PUMP



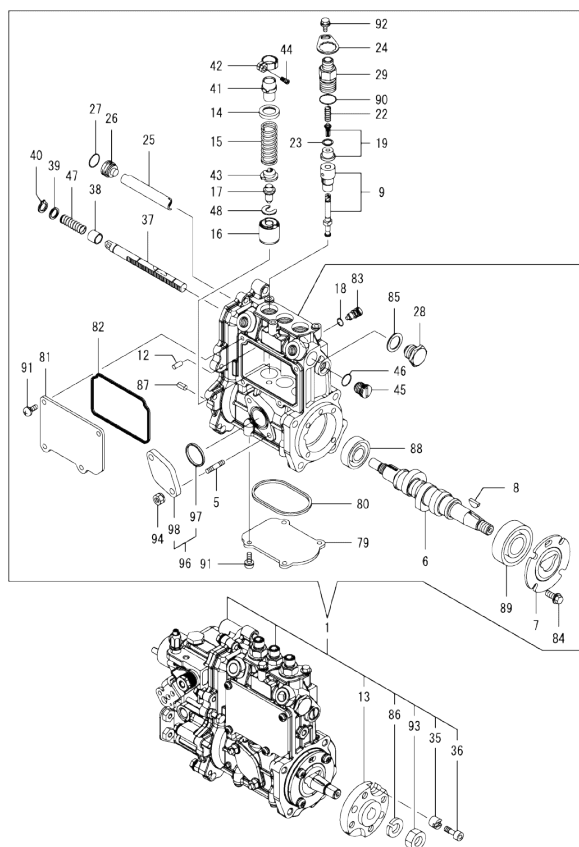
Remarks
(1)Governor(Fig.11)is incorporated in this Fuel Injection Pump (Ref.1).

										0CW10-M78200 Fig.10	
										(A)=3TNM72-APB	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(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-APB
(B)=
(C)=

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

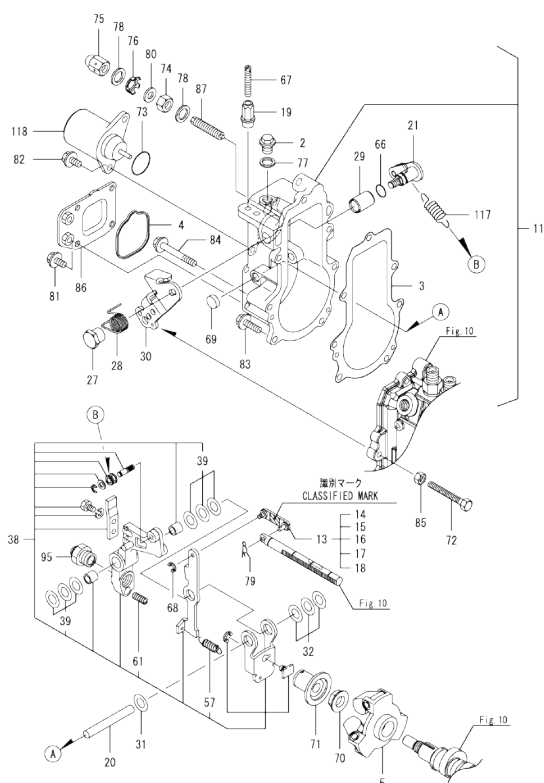
Q

(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							

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



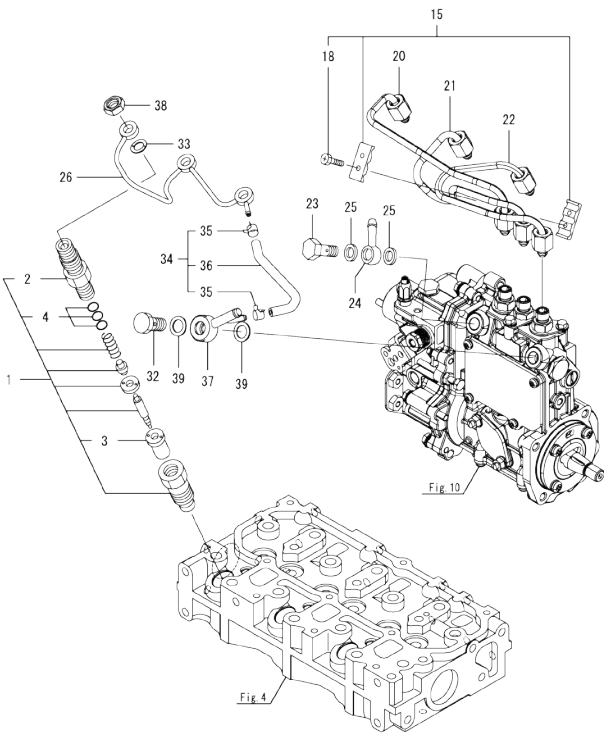
Remarks
*This figure(Governor)is incorporated
in the Fuel Injection Pump (Fig.10).

(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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
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							

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

Fig.12. FUEL INJECTION VALVE



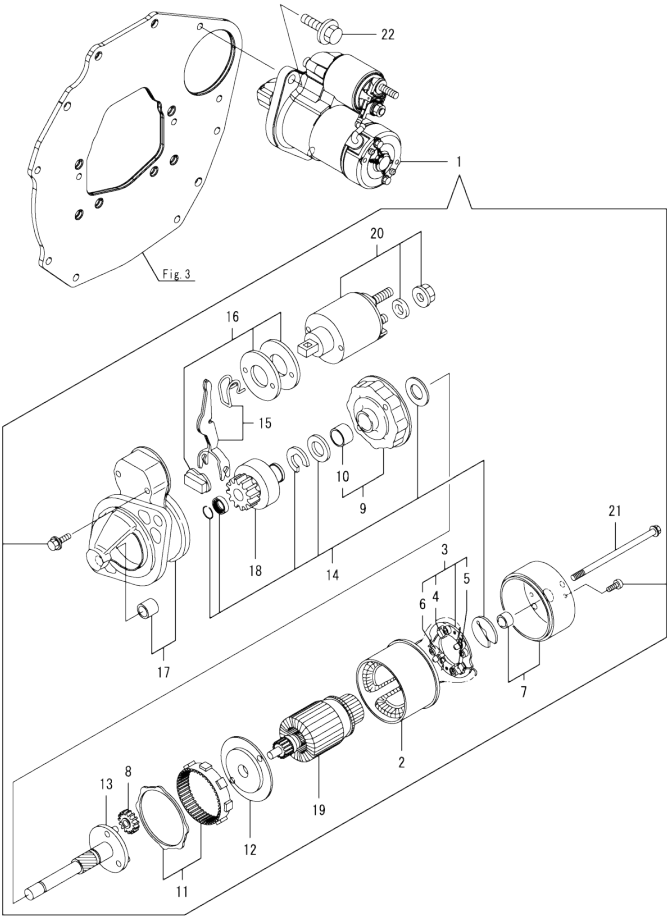
(A)=3TNM72-APB
(B)=
(C)=

(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.

Fig.13. STARTING MOTOR

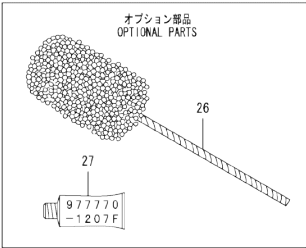
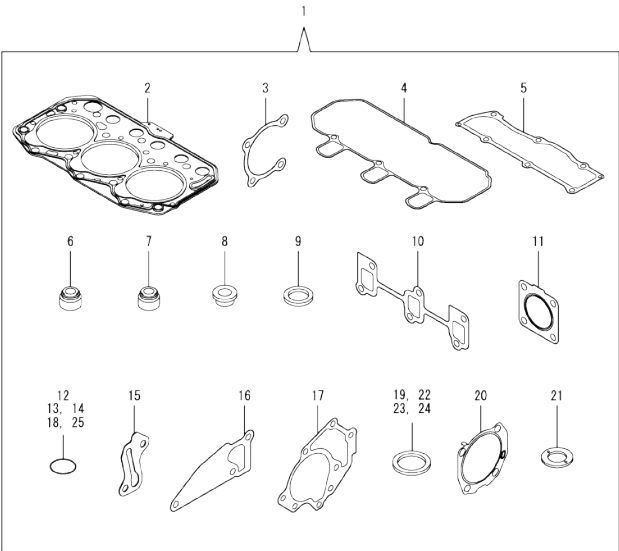


(A)=3TNM72-APB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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							

Fig.14. GASKET SET



Remarks
(1)Optional parts.

(A)=3TNM72-APB
(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

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	12	24
103854-39140	12	23
105010-11490	4	3
106760-01770	2	6
114250-39450	8	35
118200-53010	12	2
119000-59550	12	36
119025-01332	1	31
	14	2
119025-01500	2	1
119025-14580	6	3
119025-21700	7	1
119025-22900	7	32
119025-25100	6	9
119025-35091	8	26
119025-42020	9	3
119025-42030	9	4
	14	17
119025-51520	10	38
119025-59810	12	20
119025-59820	12	21
119025-59830	12	22
119025-92600	14	1
119027-01550	2	2
119027-01560	1	1
119027-01610	3	2
119027-01650	3	5
119027-01780	3	4
119027-21660	7	7
119027-34810	8	19
119027-34860	8	21
119027-34880	8	18
119027-42000	9	1
119027-42350	9	16
119027-44740	9	17
119027-49010	8	12
119027-49020	8	10
119027-61300	11	11
119125-01780	3	9
119125-01790	1	32
	14	3
119125-01800	1	33
119125-01960	1	7
119125-01970	1	5
119125-02061	1	9
119125-02900	1	36
119125-02910	1	39
119125-02930	1	23
119125-02940	1	42
119125-21200	7	4

Parts No.	Fig. No.	Ref. No.
119125-25050	1	26
119125-25910	6	14
119125-25930	6	13
119125-32000	8	1
119125-34900	8	20
	14	13
119125-39200	8	32
119125-39220	8	33
	14	15
119125-51030	10	6
119125-51060	10	7
119125-51100	10	9
119125-51241	10	16
119125-51250	10	17
119125-51300	10	19
119125-51370	10	24
119125-51481	10	35
119125-51491	10	36
119125-51700	10	79
119125-51800	1	35
	14	20
119125-51900	10	84
119125-59560	12	32
119125-59570	12	34
119125-61110	11	13
119125-61120	11	14
119125-61130	11	15
119125-61140	11	16
119125-61150	11	17
119125-61160	11	18
119125-61201	11	5
119125-61390	11	20
119125-61401	11	21
119125-61430	11	29
119125-61450	11	87
119125-77010	13	1
119125-77170	13	8
119125-77200	13	11
119125-77210	13	12
119125-77230	13	13
119125-77270	13	15
119125-77280	13	16
119125-77520	13	17
119125-77660	13	18
119125-77710	13	19
119125-77760	13	20
119125-77800	4	53
119125-77820	4	54
119127-21590	7	12
119127-61500	11	38

Parts No.	Fig. No.	Ref. No.
119131-18320	5	5
119209-35030	8	25
	14	14
119209-42320	14	18
119233-77932	11	118
119285-01731	9	21
119285-11990	4	11
119305-35151	8	36
119415-61700	11	117
119515-01200	1	30
119515-11101	4	13
119515-11110	4	14
119515-11200	4	20
119515-11240	4	21
119515-11280	4	25
119515-11310	4	44
	14	4
119515-11320	4	45
119515-11330	4	46
	14	5
119515-11380	4	34
119515-11800	4	58
119515-13200	14	11
119515-14400	6	2
119515-22300	7	21
119515-23000	7	23
119515-23601	7	27
119515-23611	7	30
119515-42020	9	13
	14	16
119515-53001	12	1
119515-53010	12	3
119515-59540	12	26
119515-61440	11	30
119515-61560	11	95
119517-11740	4	4
119517-22090	7	15
119517-22500	7	17
119527-61420	11	28
119600-11460	4	2
	14	9
119609-22950	7	34
119620-01620	1	13
119620-02450	6	4
119620-14200	6	1
119620-21500	7	11
119620-21941	7	9
119620-59700	12	38
119621-21681	7	8
119626-07900	4	55

Parts No.	Fig. No.	Ref. No.
119685-42281	9	8
119717-01800	2	3
119717-03031	4	35
119717-03070	4	36
		37
119717-11131	4	15
119717-11190	4	17
119717-11260	4	24
119717-11340	4	18
	14	6
119717-11350	4	19
	14	7
119717-11650	4	26
119717-13110	5	2
	14	10
119717-13600	5	3
119717-23200	7	26
119717-23910	7	29
119717-33010	8	4
119717-49800	9	23
119717-51150	10	13
119717-51190	10	15
119717-51420	10	27
119717-51500	10	37
119717-51570	10	43
119717-51711	10	80
119717-51750	10	81
119717-51761	10	82
119717-51860	10	94
119717-51930	11	2
119717-61050	11	3
119717-61070	11	4
119718-13100	5	1
119718-49550	9	20
119734-02220	1	34
119743-49010	8	15
119743-49030	8	14
119761-61060	11	86
119802-03100	4	38
119802-03110	4	39
119802-03121	4	40
119802-03131	4	41
119802-03141	4	42
119802-13620	5	4
119840-59570	12	37
121450-42450	9	26
121575-66830	11	67
121851-11970	8	3
122710-51090	10	8
124060-01050	1	4

Parts No. Index

Parts No.	Fig. No.	Ref. No.
124060-21600	7	14
124066-59100	12	35
124160-01751	4	33
124195-77770	13	21
124465-44950	9	28
	14	19
124550-51350	10	23
124574-44761	9	18
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
129122-44480	8	9
129150-11230	4	27
129150-11750	4	29
129150-25301	6	12
129150-59120	12	15
129150-59131	12	18
129150-77340	8	23
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
129417-33111	8	6
129417-35150	8	7
129486-07901	4	56
129486-61540	11	57
129486-61650	11	61

Parts No.	Fig. No.	Ref. No.
129508-11180	4	16
129508-33050	8	5
129698-77110	13	2
129698-77120	13	3
129698-77130	13	4
129698-77140	13	5
129698-77150	13	6
129698-77161	13	7
129698-77180	13	9
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
129916-49740	9	10
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
171008-03990	8	11
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	

Parts No.	Fig. No.	Ref. No.
22857-500160	4	49
23080-015000	8	13
		16
23080-018000	8	17
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
24316-000090	8	22
24316-000150	10	90
26022-050122	10	91
26106-050102	10	92
26106-060102	8	31
		34
	11	81
26106-060122	6	8
26106-060142	8	2
	11	82
26106-060202	4	51
	9	19
	11	83
26106-060402	1	29
26106-060452	11	84
26106-060752	4	52
26106-080122	9	14
26106-080142	4	57
26106-080202	9	24
26106-080302	9	25
26106-080352	2	4
26106-080402	4	32
26106-080452	2	5
	9	15
26106-080502	8	24
26106-100402	13	22
26206-100202	3	3
26306-080002	5	6
26577-060122	9	11
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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