

0CD50-M03540EN

P R E F A C E

This parts catalog is the 1st edition of 3TNV88-ZKKE for KAERCHER.

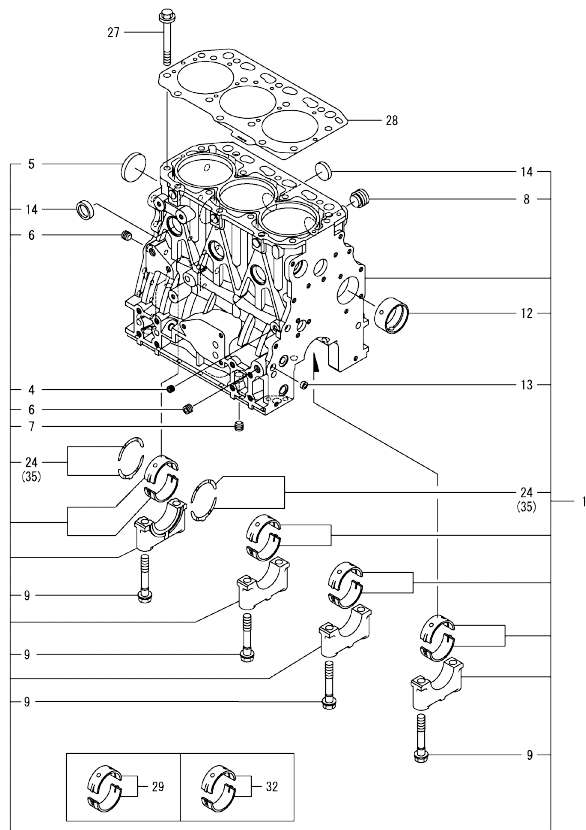
Published : December, 2017

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Fig.1. CYLINDER BLOCK

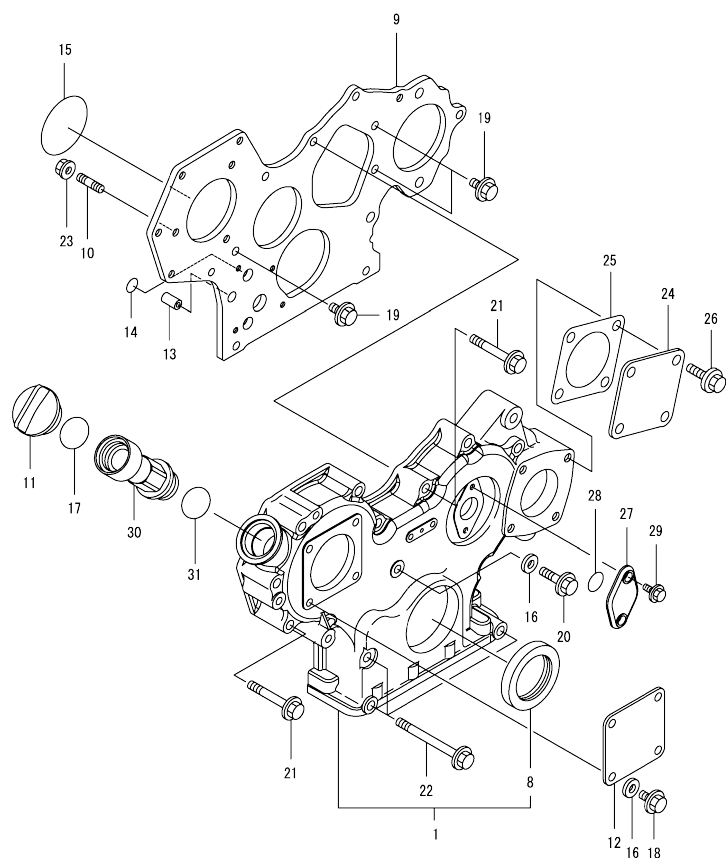


Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

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(C)=

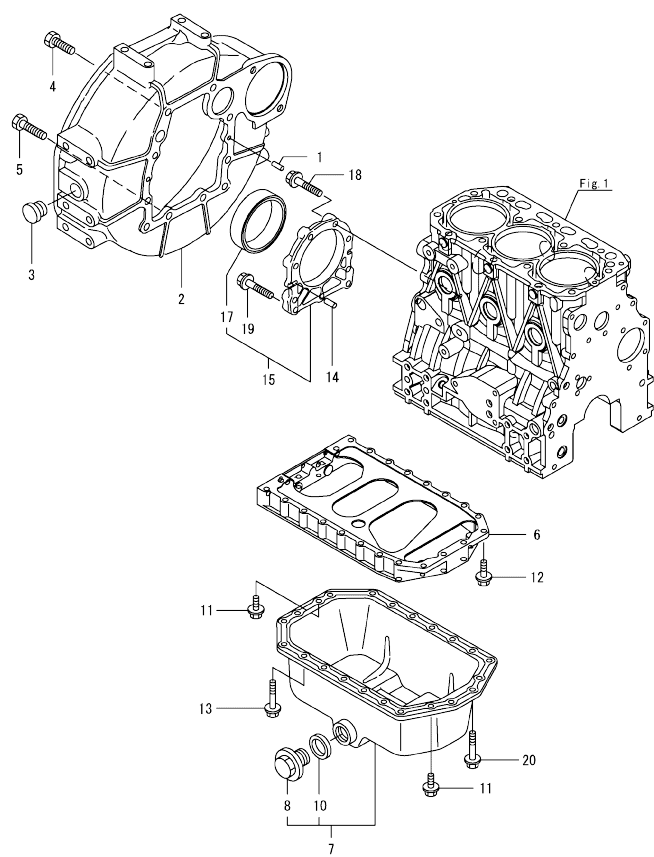
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(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, 50	1							
6	2	124160-01910	PLUG, PT1/4	2							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	171051-01921	PLUG, NPTF1	1							
9	2	129150-02020	BOLT, METAL CAP	8							
12	2	129795-02412	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	2							
14	2	27241-300000	PLUG 30	6							
24	2	129150-02931	METAL ASSY, THRUST	2							
27	1	129150-01200	BOLT, CYLINDER HEAD	14							
28	1	129001-01340	GASKET, HEAD	1							
29	1	129001-02931	METAL ASSY, MAIN	4							1
32	1	129150-02871	BEARING ASSY, MAIN	4							2
35	1	129150-02941	METAL ASSY, 0.25 OS	1							3



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729652-01500	CASE ASSY, GEAR	1							
1-1	1	729284-01500	CASE ASSY, GEAR	1							N
		(A)=E156368)									
8	2	119934-01800	SEAL, OIL	1							
9	1	129604-01520	FLANGE, GEAR CASE	1							
10	1	119802-01561	STUD, M8X25	3							
11	1	124160-01751	CAP, FILLER	1							
12	1	124240-01871	COVER, HYDRAULIC PUMP	1							
13	1	129795-01950	PIPE, KNOCK L=18	2							
14	1	119609-32040	O-RING, P16	2							
15	1	121850-51960	O-RING	1							
16	1	22190-080002	WASHER, SEAL 8	5							
17	1	24311-000320	O-RING, 1AP32.0	1							
18	1	26106-080162	BOLT, M8X 16 PLATED	4							
19	1	26106-080162	BOLT, M8X 16 PLATED	3							
20	1	26106-080302	BOLT, M8X 30 PLATED	1							
21	1	26106-080552	BOLT, M8X 55 PLATED	10							
22	1	26106-080852	BOLT, M8X 85 PLATED	3							
23	1	26306-080002	NUT, M8	3							
24	1	124240-01871	COVER, HYDRAULIC PUMP	1							
25	1	129C26-01890	GASKET, HO-P	1							
26	1	26106-080162	BOLT, M8X 16 PLATED	4							
27	1	121023-01551	COVER	1							
28	1	24341-000240	O-RING, 1AS24.0	1							
29	1	26106-060162	BOLT, M6X 16 PLATED	2							
30	1	171031-11741	PIPE, FILLER	1							
31	1	24311-000320	O-RING, 1AP32.0	1							

Fig.3. FLYWHEEL HOUSING & OIL SUMP

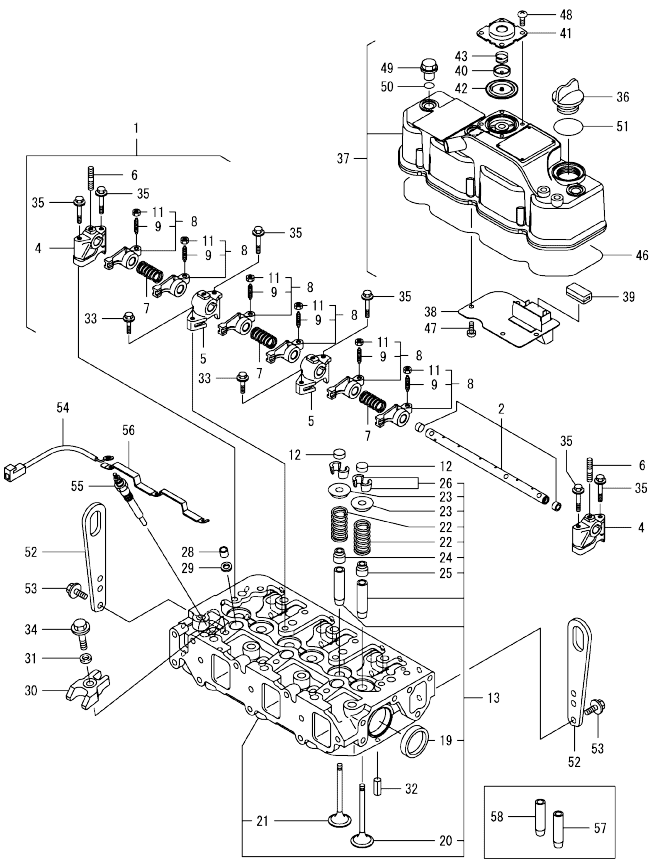


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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL-PAN	1							
7	1	129100-01760	OIL PAN ASSY	1							
8	2	119640-01640	PLUG, DRAIN M22	1							
10	2	22190-220002	WASHER, SEAL 22	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	4							
12	1	26106-080252	BOLT, M8X 25 PLATED	2							
13	1	26106-080452	BOLT, M8X 45 PLATED	16							
14	1	129100-01580	PIN, PARALLEL 8X16	2							
15	1	129648-01600	CASE ASSY, OIL SEAL	1							
17	2	129648-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	6							
19	1	26106-080352	BOLT, M8X 35 PLATED	3							
20	1	26106-080502	BOLT, M8X 50 PLATED	4							

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

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(B)=
(C)=

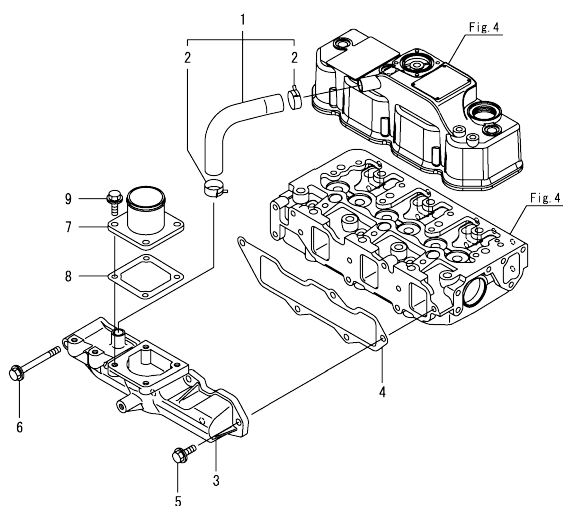
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-11241	SHAFT ASSY, ROCKER	1							
2	2	129004-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	2							
6	2	119802-11280	BOLT, STUD	3							
7	2	129150-11280	SPRING, SHAFT	3							
8	2	129004-11650	ARM ASSY, ROCKER	6							
9	3	129150-11230	SCREW, VALVE ADJUST	6							
11	3	129150-11750	NUT, M8XP1.0	6							
12	1	129150-11370	CAP, VALVE	6							
13	1	129008-11700	HEAD ASSY, CYLINDER	1							
19	2	27241-400000	PLUG, 40	2							
20	2	129005-11100	VALVE, INTAKE	3							
21	2	129100-11112	VALVE, EXHAUST	3							
22	2	129795-11120	SPRING, VALVE	6							
23	2	129795-11180	RETAINER, SPRING	6							
24	2	121400-11340	SEAL, VALVE STEM	3							
25	2	124460-11340	SEAL, VALVE STEM	3							
26	2	27310-080001	COTTER, 8	6							
28	1	119802-11870	PROTECTOR, NOZZLE	3							
29	1	119625-11880	SEAT, NOZZLE	3							
30	1	129004-11900	RETAINER, NOZZLE	3							
31	1	120270-54410	WASHER, INJECTOR	3							
32	1	22351-060012	PIN, SPRING 6.0X12	2							
33	1	26106-080252	BOLT, M8X 25 PLATED	2							
34	1	26106-080352	BOLT, M8X 35 PLATED	3							
35	1	26106-080502	BOLT, M8X 50 PLATED	6							
36	1	124160-01751	CAP, FILLER	1							
37	1	129004-11350	BONNET ASSY, HEAD	1							
38	2	129004-03010	PLATE, BAFFLE	1							
39	2	129150-03070	BAFFLE, BREATHER	1							
40	2	119802-03110	PLATE, DIAPHRAGM	1							
41	2	119802-03121	COVER, DIAPHRAGM	1							
42	2	119802-03130	DIAPHRAGM	1							
43	2	119802-03141	SPRING, DIAPHRAGM	1							
46	2	129004-11310	GASKET, BONNET	1							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500100	SCREW, 5X10	4							
49	1	124160-11360	KNOB	3							
50	1	24311-000120	O-RING, 1AP12.0	3							
51	1	24311-000320	O-RING, 1AP32.0	1							
52	1	129900-07900	LIFTER, ENGINE	2							
53	1	26106-080162	BOLT, M8X 16 PLATED	4							
54	1	119803-77830	HARNES, WIRE	1							
55	1	129008-77800	PLUG, GLOW	3							
56	1	129008-77820	CONNECTOR, GLOW PLUG	1							
57	1	120130-11860	GUIDE, VALVE	3							1
58	1	129150-11810	GUIDE, VALVE	3							1

Fig.5. SUCTION MANIFOLD

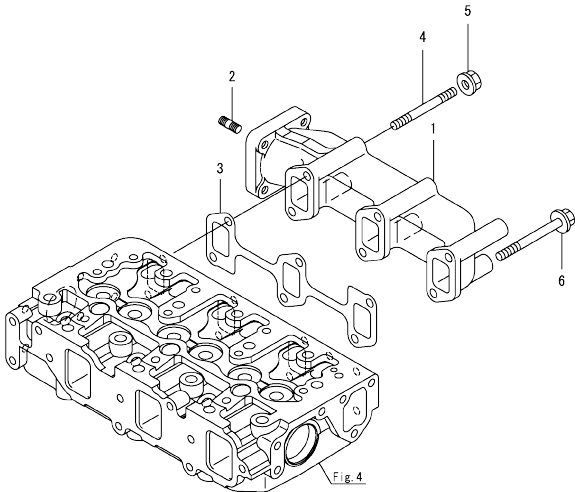
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N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.6. EXHAUST MANIFOLD

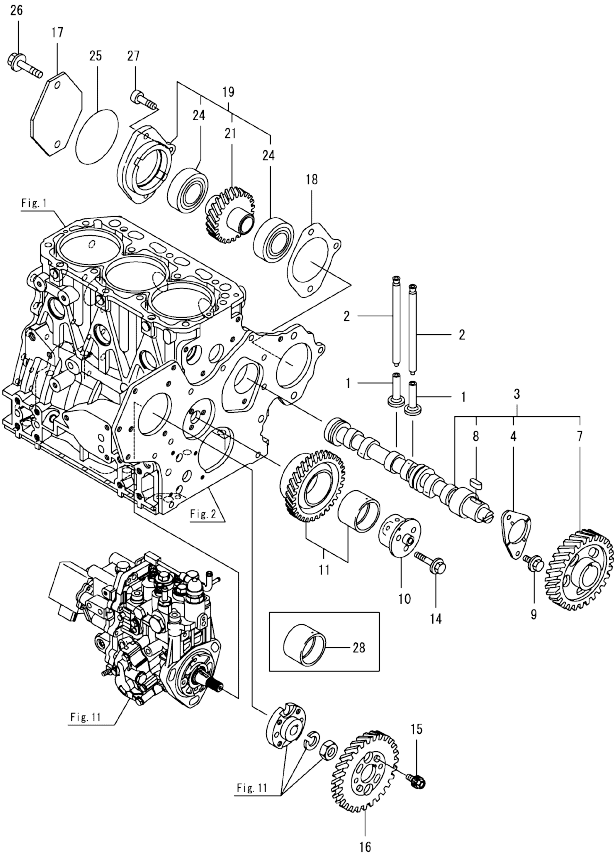


(A)=3TNV88-ZKKE
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-13129	MANIFOLD, EXHAUST	1							
2	1	119131-18320	STUD, M8X22	4							
3	1	129150-13110	GASKET, EXH.MANIFOLD	1							
4	1	123900-13610	STUD, M8X80	2							
5	1	26306-080002	NUT, M8	2							
6	1	129E00-13640	BOLT, M8X80 10.9T	4							

Fig.7. CAMSHAFT & DRIVING GEAR



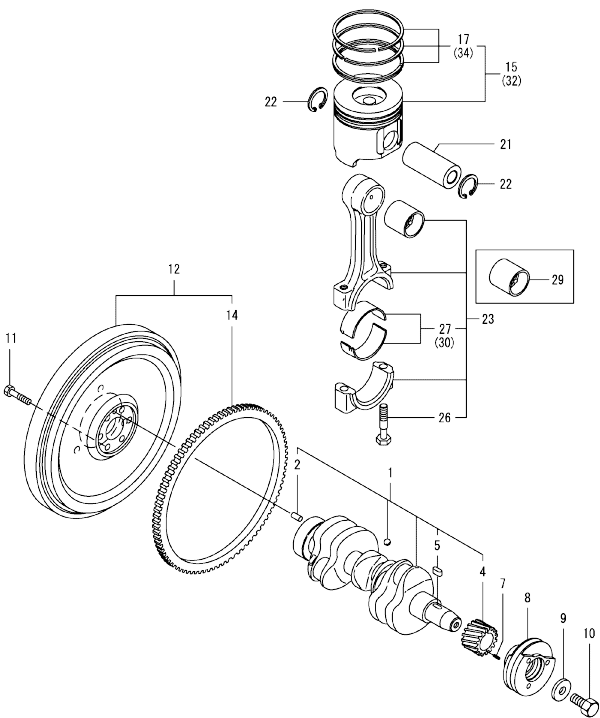
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(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	PUSH-ROD, L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	METAL, THRUST	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY, 7X 14	1							
9	1	26106-080142	BOLT, M8X 14 PLATED	2							
10	1	119803-25050	SHAFT, IDLE GEAR	1							
11	1	119802-25101	GEAR ASSY, IDLE	1							
14	1	26106-080402	BOLT, M8X 40 PLATED	3							
15	1	129150-25301	BOLT, INJECTION PUMP	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	121023-26071	COVER, PUMP	1							
18	1	171353-26081	GASKET	1							
19	1	129484-26200	DRIVE ASSY, PUMP	1							
21	2	129484-26210	GEAR ASSY, PUMP	1							
24	2	24105-060064	BEARING, BALL 6006Z	2							
25	1	24321-000850	O-RING, 1AG85.0	1							
26	1	26106-100452	BOLT, M10X 45 PLATED	2							
27	1	26450-080282	BOLT, M8X 28	1							
28	1	119802-25071	BUSH, IDLE GEAR	1							1

Remarks
(1)Spare parts.

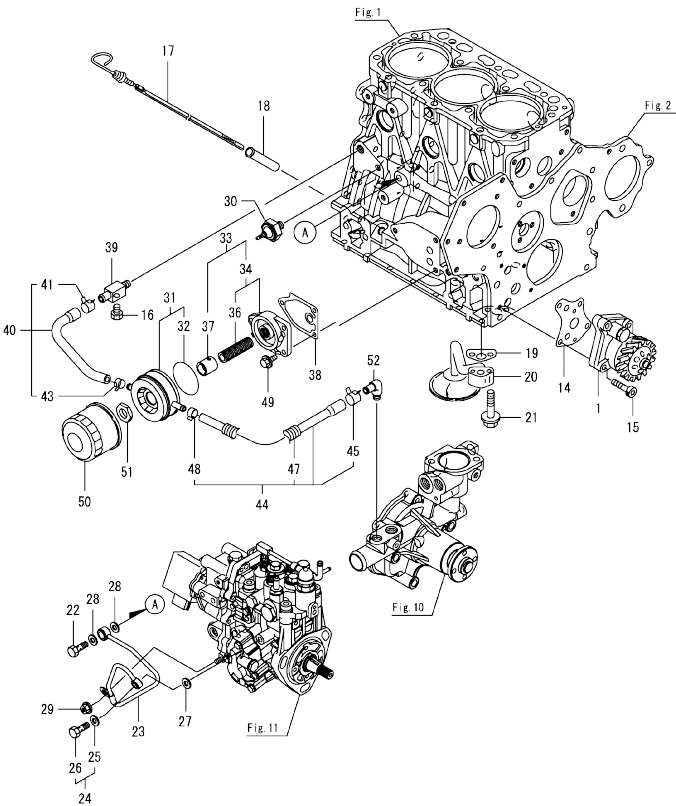
Fig.8. CRANKSHAFT & PISTON



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129008-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-030010	PIN, SPRING 3.0X10	1							
8	1	129005-21650	V-PULLEY, CRANKSHAFT	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129128-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING Z=116	1							
15	1	129005-22080	PISTON ASSY	3							
17	2	129005-22500	RING SET, PISTON	3							
21	1	129202-22300	PIN, PISTON D26 L70	3							
22	1	22252-000260	RING, 26	6							
23	1	729402-23100	ROD ASSY, CONNECTING	3							
26	2	121550-23200	BOLT, CONNECTING ROD	6							
27	2	129150-23601	METAL ASSY,CRANK PIN	3							
29	1	129100-23910	BEARING, PISTON PIN	3							1
30	1	129150-23611	BEARING, 0.25 US	3							2
32	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
34	2	129005-22950	RING SET, 0.25 OS	3							3

Fig.9. LUB. OIL SYSTEM



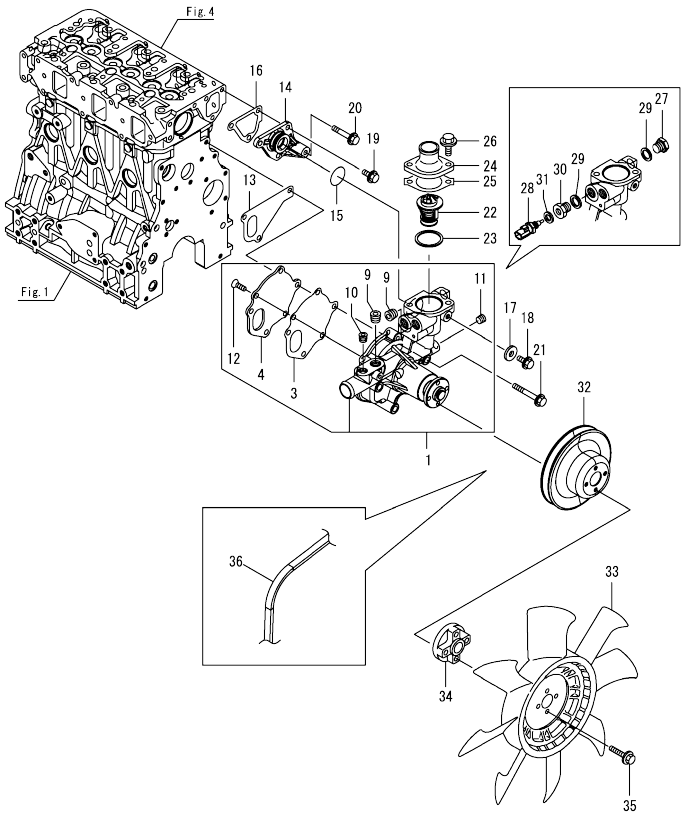
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(B)=
(C)=

(D)=
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32002	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	171056-49120	PLUG, DRAIN R1/4	1							
17	1	129004-34802	DIPSTICK	1							
18	1	121520-34810	GUIDE, DIPSTICK	1							
19	1	129150-35042	GASKET	1							
20	1	129100-35301	PIPE ASSY, OIL INLET	1							
21	1	26106-080352	BOLT, M8X 35 PLATED	2							
22	1	124160-39140	BOLT, PIPE JOINT M10	1							
23	1	119802-39450	PIPE ASSY, OIL	1							
24	1	129005-59830	BOLT ASSY, JOINT M8	1							
25	2	22190-080002	WASHER, SEAL 8	1							
26	2	23857-030000	BOLT, JOINT 3	1							
27	1	22190-080002	WASHER, SEAL 8	1							
28	1	22190-100002	WASHER, SEAL 10	2							
29	1	26366-060002	NUT, M6	1							
30	1	114250-39450	SWITCH, HYDRAULIC	1							
30-1	1	119761-39450	SWITCH, HYDRAULIC	1						N	
(A=E156368)											
31	1	129508-33031	COOLER ASSY, OIL	1							
32	2	129508-33060	GASKET, COOLER	1							
33	1	129508-35100	BRACKET ASSY, LO FILT	1							
34	2	129006-35100	BRACKET ASSY, FILTER	1							
36	3	129417-35150	BOLT, STUD M20X67	1							
37	2	129508-35150	COLLAR, OIL-COOLER	1							
38	1	129150-35111	GASKET	1							
39	1	129006-44480	JOINT, R02	1							
40	1	129508-49030	HOSE ASSY, WATER	1							
41	2	171008-03990	CLAMP, HOSE 18.5	1							
43	2	23080-015000	CLAMP, 15	1							
44	1	129006-49040	HOSE ASSY, WATER	1							
45	2	171008-03990	CLAMP, HOSE 18.5	1							
47	2	129642-49180	TUBE, CORRUGATED 19	1							
48	2	23080-015000	CLAMP, 15	1							
49	1	26106-080202	BOLT, M8X 20 PLATED	3							
50	1	119005-35160	FILTER, OIL 80X100L	1							1
51	1	124085-35350	NUT, M20	1							
52	1	129103-49301	ELBOW, PT1/4	1							

Remarks
(1)Spare parts.

Fig.10. COOLING WATER SYSTEM



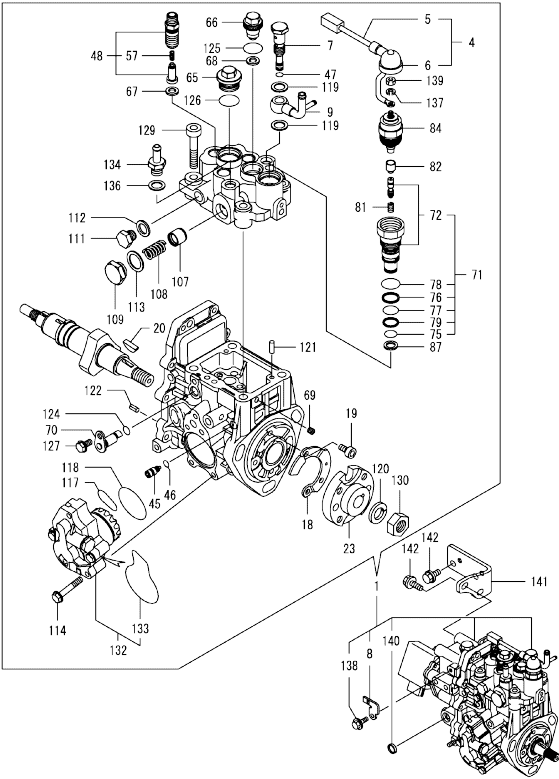
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-42004	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE, PUMP	1							
9	2	129916-49740	PLUG, R3/8	2							
10	2	23875-020000	PLUG, R02	1							
11	2	23876-010000	PLUG, R01	1							
12	2	26577-060142	SCREW M 6X 14	3							
13	1	129486-42021	GASKET, WATER PUMP	1							
14	1	129004-42040	JOINT, WATER PIPE	1							
15	1	129486-42140	O-RING, G30	1							
16	1	124395-49840	GASKET, THERMOSTAT	1							
17	1	23414-080000	GASKET, 8X1.0	1							
18	1	26106-080122	BOLT, M8X 12 PLATED	1							
19	1	26106-080162	BOLT, M8X 16 PLATED	3							
20	1	26106-080452	BOLT, M8X 45 PLATED	1							
21	1	26106-080602	BOLT, M8X 60 PLATED	3							
22	1	129457-49801	THERMOSTAT, 82C	1							
23	1	129150-49811	GASKET, THERMOSTAT	1							
24	1	129350-49530	COVER, THERMOSTAT	1							
25	1	129795-49551	GASKET	1							
26	1	26106-080222	BOLT, M8X 22 PLATED	2							
27	1	121450-42450	PLUG, M16	1							
28	1	129927-44900	SENSOR, TEMPERATURE	1							
29	1	124465-44950	GASKET, 16	2							
30	1	129974-49350	JOINT, SENSOR	1							
31	1	22190-120002	WASHER, SEAL 12	1							
32	1	129120-42351	V-PULLEY, PUMP	1							
33	1	129436-44740	FAN, COOLING D410	1							
34	1	121267-44760	SPACER, FAN 18MM	1							
35	1	26106-060302	BOLT, M6X 30 PLATED	4							
36	1	129612-42370	V-BELT, A39.5	1							W

(A=E156368)

Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).
(1)Eco pump
Make sure to update the engines ECU information when replacing the Eco pump.
Failing to do so will result in engine malfunction.

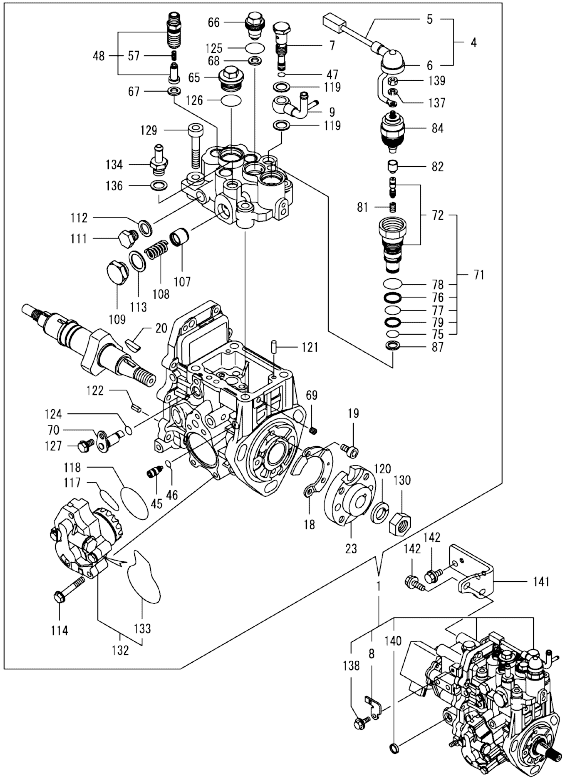
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729284-51300	PUMP ASSY, INJECTION	1							1
4	2	129927-51650	HARNESS ASSY, WIRE	1							
5	3	129927-51660	HARNESS	1							
6	3	129263-77941	CAP, RUBBER	1							
7	2	158601-51650	JOINT, OVERFLOW	1							
8	2	129927-51670	BRACKET	1							
9	2	158552-51670	JOINT, OVERFLOW	1							
18	2	129008-51900	COVER, PUMP	1							
19	2	129008-51920	BOLT, SOCKET M6X10	2							
20	2	119802-51090	FEATHER KEY, 4X16	1							
23	2	158552-51151	FLANGE, CAMSHAFT	1							
45	2	158600-51270	STOPPER, TAPPET	1							
46	2	158563-51281	O-RING, 4D S6	1							
47	2	158563-51281	O-RING, 4D S6	1							
48	2	129008-51390	VALVE ASSY, DELIVERY	3							
57	3	158563-51330	SPRING, DELIVERY	3							
65	2	158601-51550	PLUG, M22	1							
66	2	119802-51560	PLUG, BARREL M14	1							
67	2	158552-51571	GASKET, PLUG	3							
68	2	158552-51571	GASKET, PLUG	1							
69	2	158557-51570	PLUG, RACK	1							
70	2	158552-51580	LIFTER, LINK	1							
71	2	129657-51590	TIMER ASSY	1							
72	3	129657-51600	TIMER ASSY	1							
75	3	158553-51670	O-RING	1							
76	3	119802-51680	RING, BACKUP	1							
77	3	119802-51690	O-RING	1							
78	3	24356-190200	O-RING, 4D19020	1							
79	3	24372-000150	RING, BACK UP T2P15	1							
81	2	119852-51630	SPRING, TIMER	1							
82	2	119852-51640	CAP, TIMER	1							
84	2	119852-51650	VALVE ASSY, SOLENOID	1							
87	2	158553-51680	GASKET, TIMER	1							
107	3	158601-51770	PISTON, ACCUMULATOR	1							
108	3	158552-51781	SPRING, ACCUMULATOR	1							
109	3	158601-51790	PLUG, ACCUMULATOR	1							
111	3	158553-51930	PLUG, M12	1							
112	3	22190-120002	WASHER, SEAL 12	1							
113	3	22190-180002	WASHER, SEAL 18	1							
114	2	158553-51770	BOLT	4							
117	2	158552-52311	O-RING, FEED PUMP	1							
118	2	158552-52400	O-RING, 4E S42	1							
119	2	22190-120002	WASHER, SEAL 12	2							
120	2	22217-140000	WASHER, SPRING 14	1							
121	2	22312-050140	PIN, PARALLEL 5X14	2							
122	2	22351-050010	PIN, SPRING 5.0X10	2							
124	2	24311-000070	O-RING, 1AP7.0	1							
125	2	24356-190180	O-RING, 4D19018	1							
126	2	24356-190200	O-RING, 4D19020	1							
127	2	26106-060102	BOLT, M6X 10 PLATED	1							
129	2	26450-080452	BOLT, M8X 45	4							

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

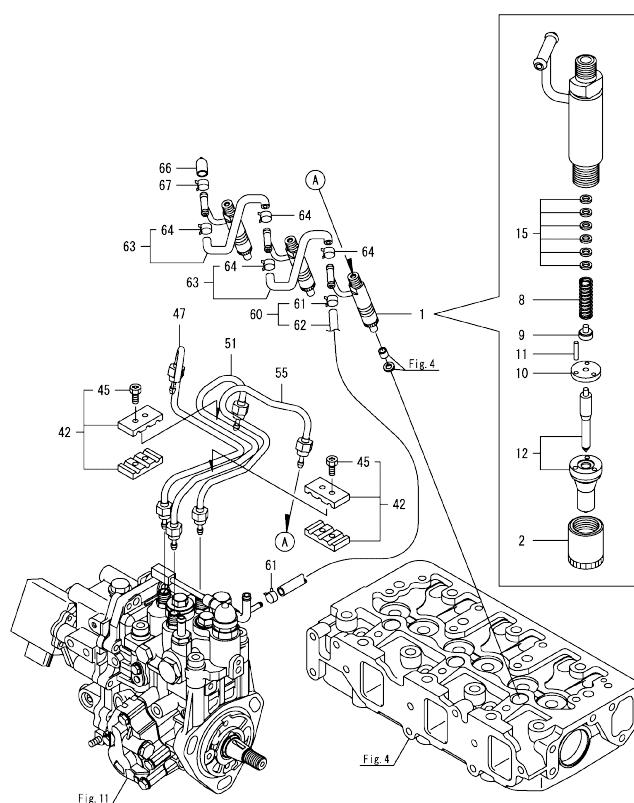


Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).
(1)Eco pump
Make sure to update the engines ECU information when replacing the Eco pump.
Failing to do so will result in engine malfunction.

(A)=3TNV88-ZKKE
(B)=
(C)=

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

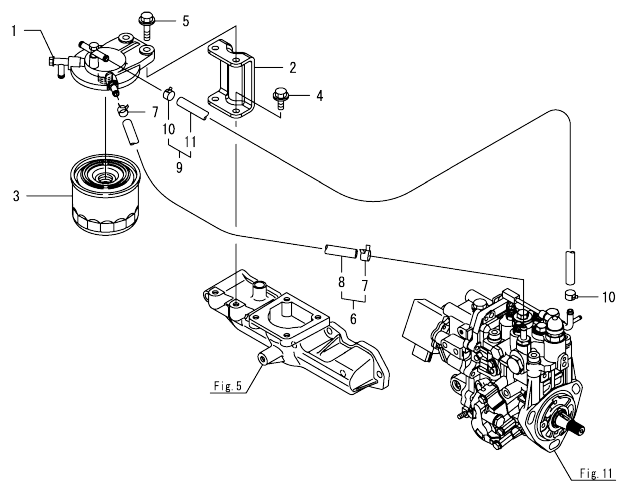
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
130	2	26776-140002	NUT, LOCK M14	1							
132	2	158552-52100	PUMP ASSY, FUEL FEED	1							
133	3	158552-52500	O-RING, PUMP INNER	1							
134	2	119934-59910	JOINT, PIPE	1							
136	2	22190-120002	WASHER, SEAL 12	1							
137	2	22217-050000	WASHER, SPRING 5	1							
138	2	26106-060122	BOLT, M6X 12 PLATED	1							
139	2	26716-050002	NUT, M5	1							
140	2	27241-160000	PLUG, 16	1							
141	1	129263-51251	RETAINER, FUEL PUMP	1							
142	1	26106-080162	BOLT, M8X 16 PLATED	4							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	3							
2	2	114250-53080	NUT, NOZZLE	3							
8	2	114250-53120	SPRING, NOZZLE	3							
9	2	114250-53130	SEAT, SPRING	3							
10	2	114250-53140	SPACER, VALVE STOP	3							
11	2	114250-53210	PIN, POSITIONING	6							
12	2	129604-53300	VALVE ASSY,INJECTION	3							
15	2	119803-53400	SHIM SET	3							
42	1	129150-59120	RETAINER, PIPE	2							
45	2	129150-59131	BOLT, M4X14	4							
47	1	129004-59811	PIPE ASSY, INJECTION	1							
51	1	129004-59821	PIPE ASSY, INJECTION	1							
55	1	129004-59831	PIPE ASSY, INJECTION	1							
60	1	119802-59550	HOSE ASSY, RETURN	1							
61	2	124722-59050	CLAMP, HOSE 9	2							
62	2	119802-59560	HOSE, FUEL RETURN	1							
63	1	129486-59551	HOSE ASSY, RETURN	2							
64	2	124722-59050	CLAMP, HOSE 9	4							
66	1	119593-59581	CAP, RETURN PIPE	1							
67	1	124060-77680	CLAMP, HOSE 10	1							

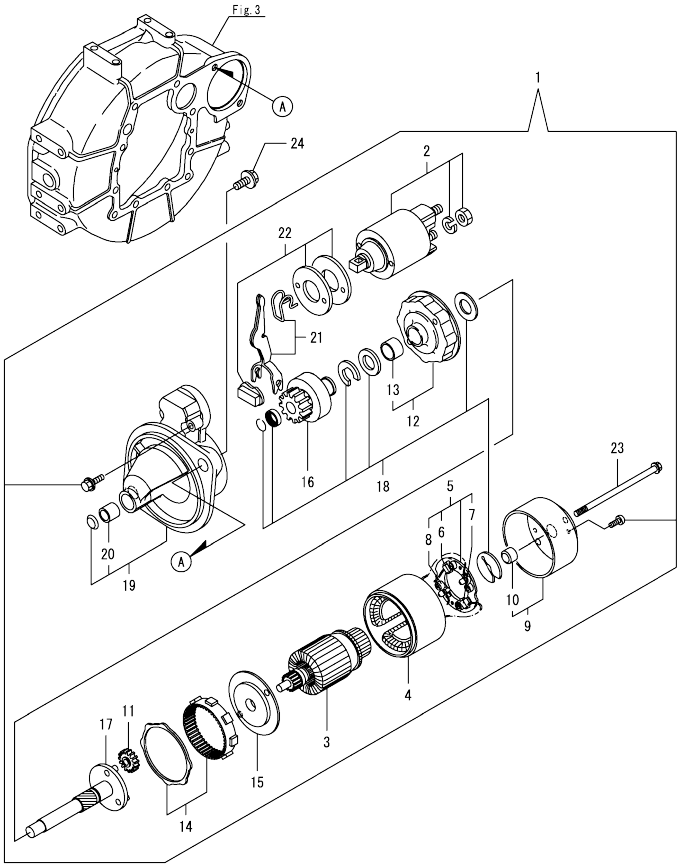
Remarks
(1) Spare parts.

N:Old ^{YES}/_{NO} New. Q:Old ^{NO}/_{YES} New. R:Old ^{YES}/_{YES} New. S:Old ^{NO}/_{NO} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change



(A)=3TNV88-ZKKE
(B)=
(C)=

Fig.15. STARTER MOTOR



(A)=3TNV88-ZKKE
(B)=
(C)=

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

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

Fig.16. GENERATOR

(D)=
(E)=

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

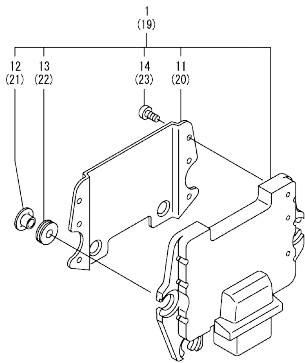
[illegible]

Fig. 2

* Loose parts : Until E156368.

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

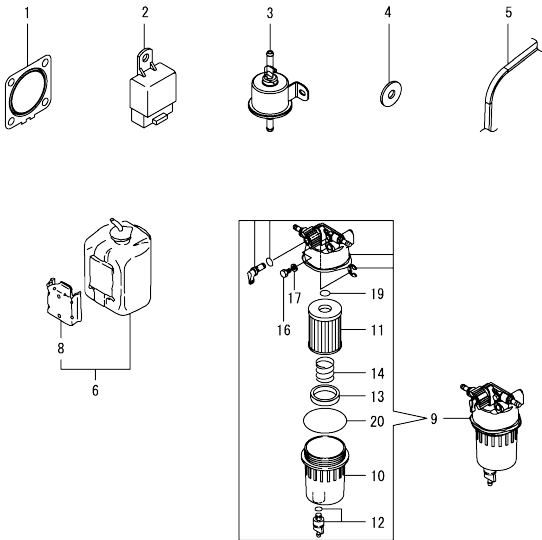
Fig.17. ELECTRONIC CONTROL UNIT(ECU)



Remarks
(1)Eco ECU
This part cannot be ordered.
Replace the part using a Service ECU with the proper engine information installed.
(2)Service ECU
If the proper information is not installed, the engine will not operate.
To install proper information, go to an authorized distributor.

No.	Lev.	Parts No.	Description	(A)=3TNV88-ZKKE (B)= (C)=						Q'ty	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	129284-75010	ECU ASSY,3V88F-ESXG	1								1
11	2	129927-77600	SHIELD, ECU	1								
12	2	129927-77680	COLLAR, CONTROLLER	3								
13	2	119578-91351	RUBBER, CUSHION	3								
14	2	22877-500080	SCREW, 5X 8	6								
19	1	129927-75901	ECU ASSY, SERVICE	1								2
20	2	129927-77600	SHIELD, ECU	1								
21	2	129927-77680	COLLAR, CONTROLLER	3								
22	2	119578-91351	RUBBER, CUSHION	3								
23	2	22877-500080	SCREW, 5X 8	6								

Fig.18. ACCESSORY



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-13200	GASKET, SILENCER	1							
2	1	172B02-17150	RELAY, CA TYPE C	2							
3	1	129612-52100	PUMP, FUEL FEED	1							
4	1	129927-77690	WASHER, ECU	3							
5	1	129612-42370	V-BELT, A39.5	1							Z
(A=E156368)											
6	1	720445-44200	TANK ASSY, SUB	1							
8	2	120445-44540	SUPPORT	1							
9	1	129630-55711	FILTER ASSY, PRE	1							
10	2	129242-55720	CUP, SEPARATOR	1							
11	2	129630-55731	ELEMENT, FUEL FILTER	1							
12	2	129242-55740	PLUG, DRAIN	1							
13	2	129242-55770	FLOAT	1							
14	2	129630-55780	SPRING	1							
16	2	129242-55750	VALVE, AIR VENT	1							
17	2	129242-55760	GASKET, PLUG	1							
19	2	24311-000160	O-RING, 1AP16.0	1							
20	2	24321-000750	O-RING, 1AG75.0	1							

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Parts No.	Fig. No.	Ref. No.
105325-59570	14	8
114250-39450	9	30
114250-53080	13	2
114250-53120	13	8
114250-53130	13	9
114250-53140	13	10
114250-53210	13	11
118400-77170	15	11
119005-35160	9	50
119131-18320	6	2
119578-91351	17	13
		22
119593-59581	13	66
119609-32040	2	14
119620-01750	3	3
119625-11880	4	29
119640-01640	3	8
119761-39450	9	30 -1
119802-01561	2	10
119802-03110	4	40
119802-03121	4	41
119802-03130	4	42
119802-03141	4	43
119802-11260	4	4
119802-11270	4	5
119802-11280	4	6
119802-11870	4	28
119802-25071	7	28
119802-25101	7	11
119802-25901	7	16
119802-39450	9	23
119802-51090	11	20
119802-51560	11	66
119802-51680	11	76
119802-51690	11	77
119802-59550	13	60
119802-59560	13	62
119803-21200	8	4
119803-25050	7	10
119803-53400	13	15
119803-77830	4	54
119852-51630	11	81
119852-51640	11	82
119852-51650	11	84
119865-21600	8	14
119934-01800	2	8
119934-59910	11	134
119940-77270	16	5
120130-11860	4	57
120270-54410	4	31

Parts No.	Fig. No.	Ref. No.
120445-44540	18	8
121023-01551	2	27
121023-26071	7	17
121111-21501	8	11
121267-44760	10	34
121400-11340	4	24
121450-42450	10	27
121520-34810	9	18
121550-23200	8	26
121850-21680	8	10
121850-51960	2	15
123900-13610	6	4
124060-01050	1	4
124060-77680	13	67
124085-35350	9	51
124160-01751	2	11
	4	36
124160-01910	1	6
		7
124160-11360	4	49
124160-39140	9	22
124195-77770	15	23
124240-01871	2	12
		24
124395-49840	10	16
124460-11340	4	25
124465-44950	10	29
124722-59050	13	61
		64
124766-59050	14	7
		10
129001-01250	1	5
129001-01340	1	28
129001-02931	1	29
129001-12110	5	4
129001-32002	9	1
129001-42004	10	1
129004-03010	4	38
129004-11241	4	1
129004-11251	4	2
129004-11310	4	46
129004-11350	4	37
129004-11650	4	8
129004-11900	4	30
129004-13129	6	1
129004-13200	18	1
129004-34802	9	17
129004-42040	10	14
129004-55612	14	1
129004-59811	13	47

Parts No.	Fig. No.	Ref. No.
129004-59821	13	51
129004-59831	13	55
129005-03080	5	1
129005-11100	4	20
129005-12101	5	3
129005-21650	8	8
129005-22080	8	15
129005-22500	8	17
129005-22900	8	32
129005-22950	8	34
129005-59830	9	24
129006-35100	9	34
129006-44480	9	39
129006-49040	9	44
129008-11700	4	13
129008-21000	8	1
129008-51390	11	48
129008-51900	11	18
129008-51920	11	19
129008-61301	12	20
129008-77800	4	55
129008-77820	4	56
129100-01580	3	1
		14
	8	2
129100-01730	3	6
129100-01760	3	7
129100-11112	4	21
129100-23910	8	29
129100-35301	9	20
129100-42051	10	3
129100-42121	10	4
129103-49301	9	52
129120-42351	10	32
129128-21590	8	12
129129-14580	7	3
129150-01200	1	27
129150-02020	1	9
129150-02450	7	4
129150-02871	1	32
129150-02931	1	24
129150-02941	1	35
129150-03070	4	39
129150-11230	4	9
129150-11280	4	7
129150-11370	4	12
129150-11750	4	11
129150-11810	4	58
129150-13110	6	3
129150-14101	7	7

Parts No.	Fig. No.	Ref. No.
129150-14200	7	1
129150-14400	7	2
129150-23601	8	27
129150-23611	8	30
129150-25301	7	15
129150-32020	9	14
129150-35042	9	19
129150-35111	9	38
129150-49811	10	23
129150-59120	13	42
129150-59131	13	45
129150-77511	5	8
129202-22300	8	21
129210-59090	14	6
129210-59120	14	9
129211-59510	14	11
129233-55620	14	2
129242-55720	18	10
129242-55740	18	12
129242-55750	18	16
129242-55760	18	17
129242-55770	18	13
129242-77010	15	1
129242-77100	15	3
129242-77110	15	4
129242-77120	15	5
129242-77130	15	6
129242-77140	15	7
129242-77150	15	8
129242-77160	15	9
129242-77170	15	10
129242-77180	15	12
129242-77210	15	15
129242-77260	15	19
129242-77270	15	21
129242-77280	15	22
129263-51251	11	141
129263-77941	11	6
129284-75010	17	1
129350-49530	10	24
129410-03990	5	2
129417-35150	9	36
129436-44740	10	33
129457-49801	10	22
129484-26200	7	19
129484-26210	7	21
129486-01670	3	18
129486-12581	5	7
129486-42021	10	13
129486-42140	10	15

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Parts No.	Fig. No.	Ref. No.
129486-59551	13	63
129508-33031	9	31
129508-33060	9	32
129508-35100	9	33
129508-35150	9	37
129508-49030	9	40
129604-01520	2	9
129604-53300	13	12
129612-01600	3	2
129612-42370	10	36
	18	5
129612-52100	18	3
129630-55711	18	9
129630-55731	18	11
129630-55780	18	14
129631-77311	16	6
129642-49180	9	47
129648-01600	3	15
129648-01780	3	17
129657-51590	11	71
129657-51600	11	72
129698-77020	15	2
129698-77190	15	13
129698-77200	15	14
129698-77220	15	16
129698-77230	15	17
129698-77250	15	18
129795-01950	2	13
129795-02412	1	12
129795-11120	4	22
129795-11180	4	23
129795-21661	8	9
129795-49551	10	25
129900-07900	4	52
129907-55801	14	3
129908-77200	16	1
129908-77220	16	2
129908-77360	16	3
129916-49740	10	9
129927-44900	10	28
129927-51650	11	4
129927-51660	11	5
129927-51670	11	8
129927-75901	17	19
129927-77600	17	11
		20
129927-77680	17	12
		21
129927-77690	18	4
129972-77341	16	7

Parts No.	Fig. No.	Ref. No.
129974-49350	10	30
129C26-01890	2	25
129E00-13640	6	6
158552-51151	11	23
158552-51571	11	67
		68
158552-51580	11	70
158552-51670	11	9
158552-51781	11	108
158552-52100	11	132
158552-52311	11	117
158552-52400	11	118
158552-52500	11	133
158553-51670	11	75
158553-51680	11	87
158553-51770	11	114
158553-51930	11	111
	12	2
158553-61780	12	24
158557-51570	11	69
158557-61720	12	23
158563-51281	11	46
		47
158563-51330	11	57
158600-51270	11	45
158601-51550	11	65
158601-51650	11	7
158601-51770	11	107
158601-51790	11	109
171008-03990	9	41
		45
171031-11741	2	30
171051-01921	1	8
171056-49120	9	16
171353-26081	7	18
172B02-17150	18	2
22190-080002	2	16
	9	25
		27
22190-100002	9	28
22190-120002	10	31
	11	112
		119
		136
	12	25
22190-180002	11	113
22190-220002	3	10
22217-050000	11	137
22217-140000	11	120
22252-000260	8	22

Parts No.	Fig. No.	Ref. No.
22312-050140	11	121
22351-030010	8	7
22351-050010	11	122
22351-060012	4	32
22512-070140	7	8
	8	5
22857-500100	4	47
		48
22877-500080	17	14
		23
23080-015000	9	43
		48
23414-080000	10	17
23857-030000	9	26
23875-020000	10	10
23876-010000	10	11
24105-060064	7	24
24311-000070	11	124
24311-000120	4	50
24311-000160	18	19
24311-000320	2	17
		31
	4	51
24321-000750	18	20
24321-000850	7	25
24341-000240	2	28
24341-000480	12	26
24356-190180	11	125
24356-190200	11	78
		126
24372-000150	11	79
26106-060102	11	127
26106-060122	11	138
26106-060162	2	29
	12	27
26106-060202	12	28
26106-060302	10	35
26106-080122	10	18
26106-080142	7	9
26106-080162	2	18
		19
		26
	3	11
	4	53
	10	19
	11	142
		4
26106-080202	5	5
		9
	9	49

Parts No.	Fig. No.	Ref. No.
26106-080222	10	26
26106-080252	3	12
		4
	12	29
26106-080302	2	20
	14	5
26106-080352	3	19
	4	34
	9	21
26106-080402	7	14
26106-080452	3	13
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26106-080502	3	20
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26106-080552	2	21
26106-080602	10	21
26106-080802	5	6
26106-080852	2	22
26106-100452	7	26
26106-120252	15	24
26206-100252	3	4
26206-100302	3	5
26306-080002	2	23
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26366-060002	9	29
26450-060252	9	15
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26450-080452	11	129
26577-060142	10	12
26716-050002	11	139
26776-140002	11	130
27241-120000	1	13
27241-160000	11	140
27241-300000	1	14
27241-400000	4	19
27310-080001	4	26
720445-44200	18	6
729005-01560	1	1
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729284-51300	11	1
729402-23100	8	23
729604-53400	13	1
729652-01500	2	1
X2114535200	15	20