

0CD11-M19300EN

P R E F A C E

1. This parts catalog is the 1st edition of 4TNV88-BDHKSR for HOKUETSU INDUSTRIES CO.,LTD.

Published : October, 2013

2. Model name

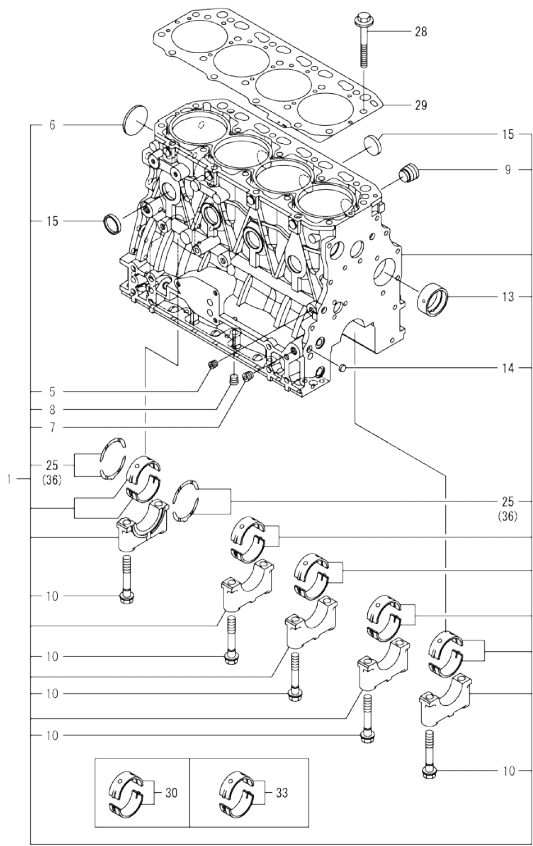
Engine model	Vehicle	Vehicle made by
4TNV88-BDHKSR	COMPRESSOR	HOKUETSU INDUSTRIES CO.,LTD.

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0CD11-M19300

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Fig.1. CYLINDER BLOCK



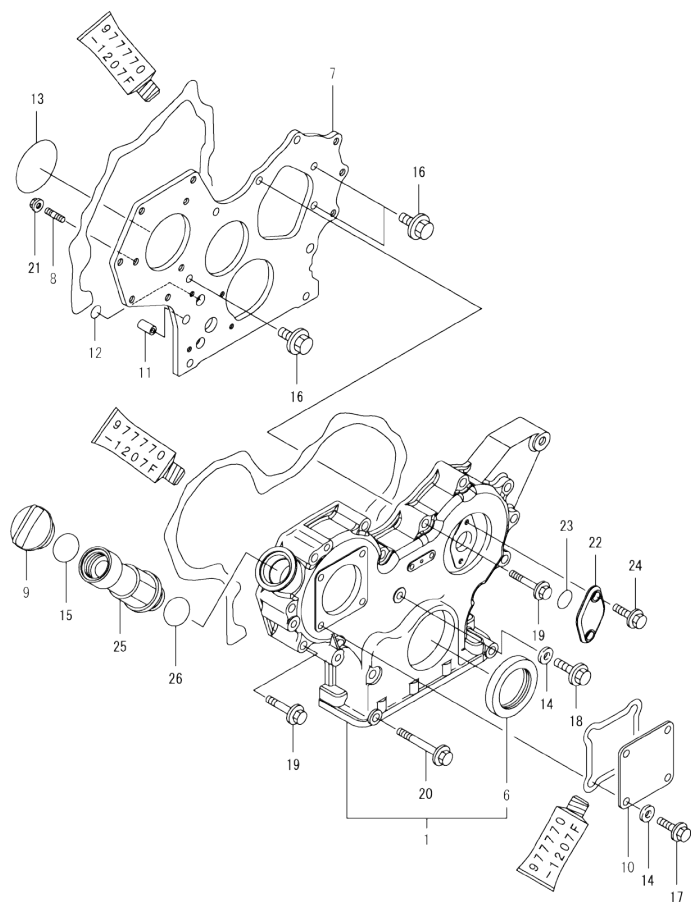
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-01560	BLOCK ASSY, CYLINDER	1							
5	2	124060-01050	PLUG, PT1/8	1							
6	2	129001-01250	PLUG, DISH TYPE 50	1							
7	2	124160-01910	PLUG, PT1/4	2							
8	2	124160-01910	PLUG, PT1/4	1							
9	2	171051-01921	PLUG, NPTF1	1							
10	2	129150-02020	BOLT, METAL CAP	10							
13	2	129795-02412	BUSH, CAMSHAFT	1							
14	2	27241-120000	PLUG, 12	2							
15	2	27241-300000	PLUG 30	8							
25	2	129150-02931	BEARING ASSY, THRUST	2							
28	1	129150-01200	BOLT, CYLINDER HEAD	18							
29	1	129407-01340	GASKET, HEAD	1							
30	1	129001-02931	BEARING ASSY, MAIN	5							1
33	1	129150-02871	BEARING ASSY, MAIN	5							2
36	1	129150-02941	BEARING, THRUST 0.25	1							3

Fig.2. GEAR HOUSING

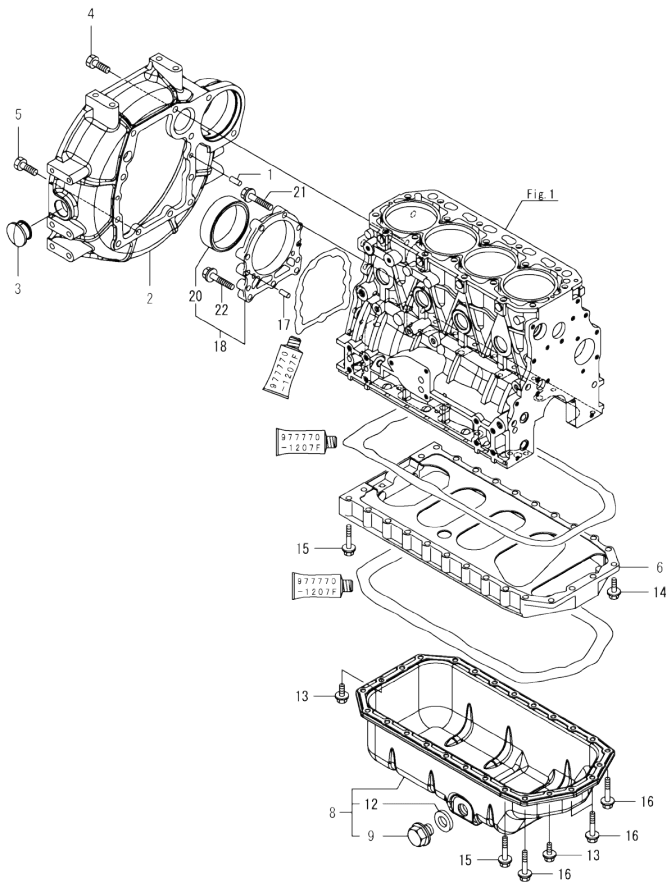


(D)=
(E)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719803-01500	CASE ASSY, GEAR	1							
6	2	119934-01800	SEAL, OIL	1							
7	1	119803-01520	FLANGE, GEAR CASE	1							
8	1	119802-01561	BOLT, STUD M8X25	3							
9	1	124160-01751	CAP, FILLER	1							
10	1	124240-01871	COVER, PUMP	1							
11	1	129795-01950	PIPE, DOWEL L=18	2							
12	1	119609-32040	O-RING, P16	2							
13	1	121850-51960	O-RING	1							
14	1	22190-080002	WASHER, SEAL 8	5							
15	1	24311-000320	O-RING, 1AP32.0	1							
16	1	26106-080162	BOLT, M8X 16 PLATED	3							
17	1	26106-080162	BOLT, M8X 16 PLATED	4							
18	1	26106-080302	BOLT, M8X 30 PLATED	1							
19	1	26106-080552	BOLT, M8X 55 PLATED	12							
20	1	26106-080852	BOLT, M8X 85 PLATED	3							
21	1	26306-080002	NUT, M8	3							
22	1	121023-01551	COVER	1							
23	1	24341-000240	O-RING, 1AS24.0	1							
24	1	26106-060162	BOLT, M6X 16 PLATED	2							
25	1	171031-11741	PIPE	1							
26	1	24311-000320	O-RING, 1AP32.0	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:Qty Change
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Fig.3. FLYWHEEL HOUSING & OIL SUMP

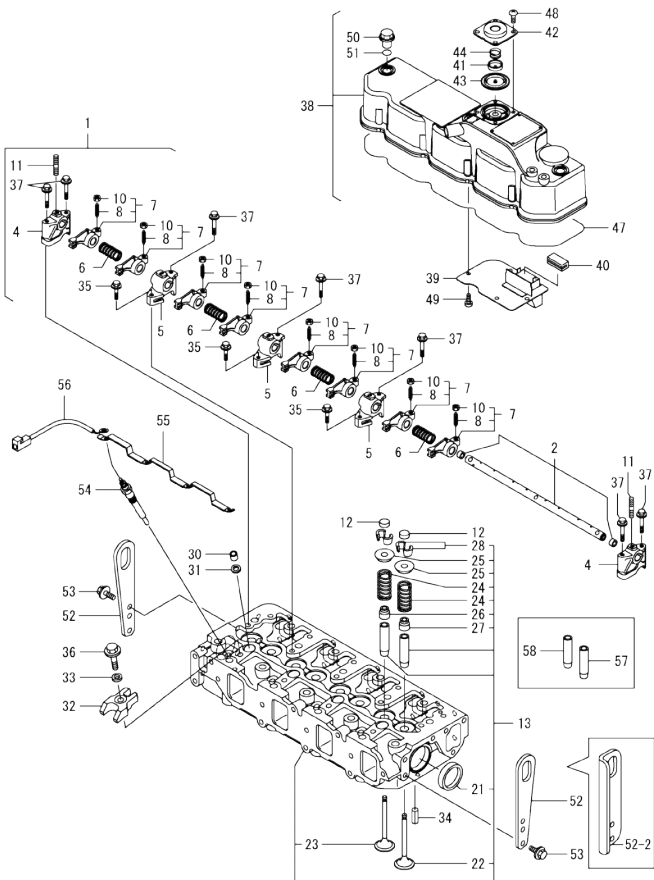


(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, 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	129400-01730	SPACER, OIL-PAN	1							
8	1	129688-01780	OIL PAN ASSY, DEEP	1							
9	2	119640-01640	PLUG, DRAIN M22	1							
12	2	22190-220002	WASHER, SEAL 22	1							
13	1	26106-080162	BOLT, M8X 16 PLATED	4							
14	1	26106-080252	BOLT, M8X 25 PLATED	2							
15	1	26106-080452	BOLT, M8X 45 PLATED	20							
16	1	26106-080502	BOLT, M8X 50 PLATED	4							
17	1	129100-01580	PIN, PARALLEL 8X16	2							
18	1	129648-01600	CASE ASSY, OIL SEAL	1							
20	2	129648-01780	SEAL, OIL	1							
21	1	129486-01670	BOLT, M8X30	6							
22	1	26106-080352	BOLT, M8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET

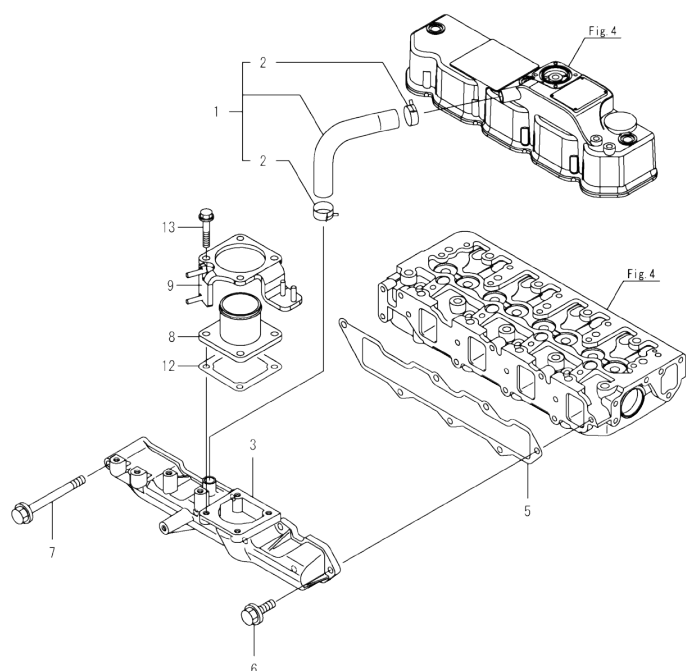


Remarks
(1)Spare parts.

(A)=4TNV88-BDHSR
(B)=
(C)=

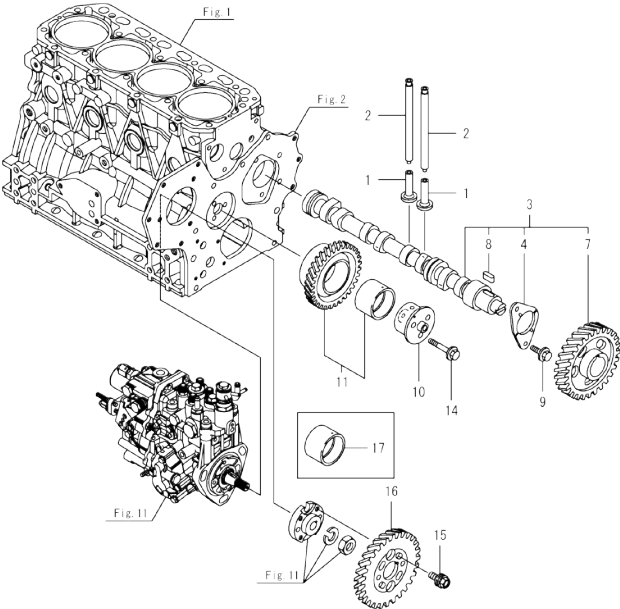
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129601-11241	SHAFT ASSY, ROCKER	1							
2	2	129601-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	3							
6	2	129150-11280	SPRING, ROCKER	4							
7	2	129004-11650	ARM ASSY, ROCKER	8							
8	3	129150-11230	SCREW, VALVE ADJUST	8							
10	3	129150-11750	NUT, M8	8							
11	2	26226-080182	STUD, M8X 18	3							
12	1	129150-11370	CAP, VALVE	8							
13	1	129688-11700	HEAD ASSY, CYLINDER	1							
21	3	27241-400000	PLUG, 40	2							
22	2	129005-11100	VALVE, SUCTION	4							
23	2	129100-11112	VALVE, EXHAUST	4							
24	2	129795-11120	SPRING, VALVE	8							
25	2	129795-11180	RETAINER, SPRING	8							
26	2	121400-11340	SEAL, VALVE STEM	4							
27	2	124460-11340	SEAL, VALVE STEM	4							
28	2	27310-080001	COTTER, 8	8							
30	1	119802-11870	PROTECTOR, NOZZLE	4							
31	1	119625-11880	SEAT, NOZZLE	4							
32	1	129004-11900	RETAINER, NOZZLE	4							
33	1	120270-54410	WASHER, INJECTOR	4							
34	1	22351-060012	PIN, SPRING 6.0X12	2							
35	1	26106-080252	BOLT, M8X 25 PLATED	3							
36	1	26106-080352	BOLT, M8X 35 PLATED	4							
37	1	26106-080502	BOLT, M8X 50 PLATED	7							
38	1	129652-11350	BONNET ASSY, HEAD	1							
39	2	129004-03010	PLATE, BAFFLE	1							
40	2	129150-03070	BAFFLE, BREATHER	1							
41	2	119802-03110	PLATE, DIAPHRAGM	1							
42	2	119802-03121	COVER, DIAPHRAGM	1							
43	2	119802-03130	DIAPHRAGM	1							
44	2	119802-03141	SPRING, DIAPHRAGM	1							
47	2	129601-11310	GASKET, BONNET	1							
48	2	22857-500100	SCREW, 5X10	4							
49	2	22857-500100	SCREW, 5X10	4							
50	1	124160-11360	KNOB	3							
51	1	24311-000120	O-RING, 1AP12.0	3							
52	1	129900-07900	LIFTER, ENGINE	2							
52-1	1	129900-07900	LIFTER, ENGINE	1							K
(A=2020.02.)											
52-2	1	129688-07900	LIFTER, ENGINE	1							N
(A=2020.02.)											
53	1	26106-080162	BOLT, M8X 16 PLATED	4							
54	1	129008-77800	PLUG, GLOW	4							
55	1	129604-77821	CONNECTOR, GLOW PLUG	1							
56	1	129630-77800	HARNESS, WIRE	1							
57	1	120130-11860	GUIDE, VALVE	4							1
58	1	129150-11810	GUIDE, VALVE	4							1



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129005-03080	HOSE ASSY, BREATHER	1							
2	2	129410-03990	CLAMP, HOSE 21.5	2							
3	1	129602-12101	MANIFOLD, AIR INTAKE	1							
5	1	129407-12110	GASKET, MANIFOLD	1							
6	1	26106-080202	BOLT, M8X 20 PLATED	6							
7	1	26106-080802	BOLT, M8X 80 PLATED	1							
8	1	129486-12581	JOINT, MANIFOLD	1							
9	1	129688-59160	BRACKET, F.I. PIPE	1							
12	1	129150-77511	GASKET, AIR HEATER	1							
13	1	26106-080252	BOLT, M8X 25 PLATED	4							

Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare parts.

(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8							
2	1	129150-14400	PUSH-ROD, L=178	8							
3	1	729402-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, 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	1							
11	1	119802-25101	GEAR ASSY, IDLE	1							
14	1	26106-080402	BOLT, M8X 40 PLATED	3							
15	1	129150-25301	BOLT	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	119802-25071	BUSH, IDLE GEAR	1							1

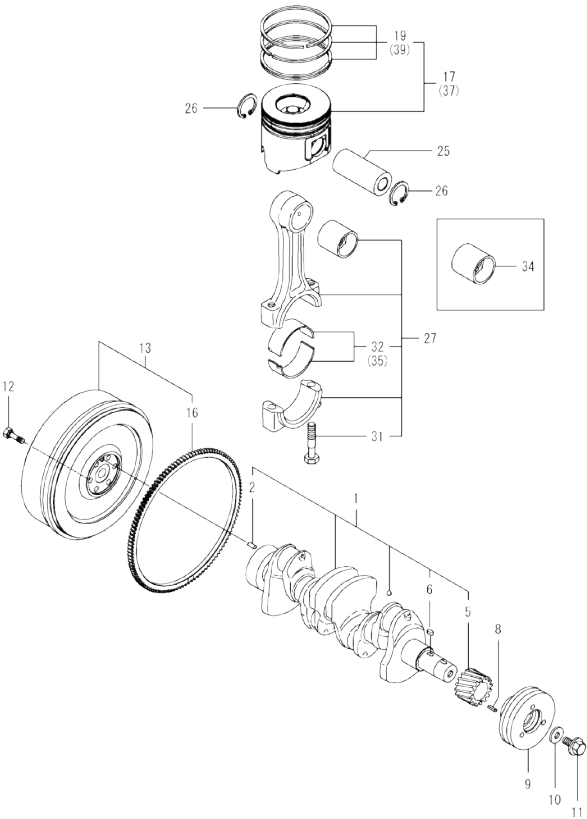
Fig.8. CRANKSHAFT & PISTON

(A)=4TNV88-BDHSR
(B)=
(C)=

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

Q'ty

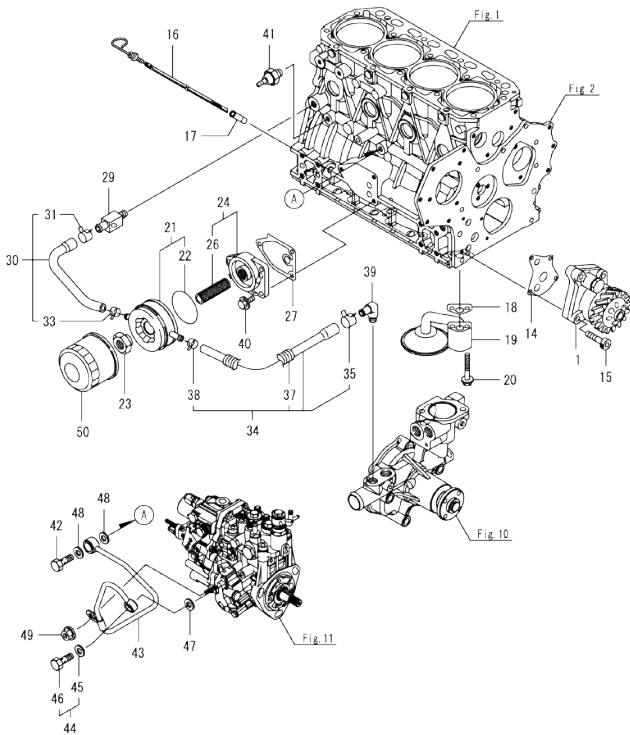
I R



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129604-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
5	2	119803-21200	GEAR, CRANKSHAFT	1							
6	2	22512-070140	KEY, 7X 14	1							
8	1	22351-030010	PIN, SPRING 3.0X10	1							
9	1	119802-21650	V-PULLEY, CRANK 110	1							
10	1	129795-21661	WASHER	1							
11	1	121850-21680	BOLT	1							
12	1	121111-21501	BOLT, FLYWHEEL	6							
13	1	129688-21560	FLYWHEEL ASSY	1							
16	2	119865-21600	GEAR, RING Z=116	1							
17	1	129005-22080	PISTON ASSY	4							
19	2	129005-22500	RING SET, PISTON	4							
25	1	129202-22300	PIN, PISTON D26 L70	4							
26	1	22252-000260	RING, 26	8							
27	1	729402-23100	ROD ASSY, CONNECTING	4							
31	2	121550-23200	BOLT, CONNECTING ROD	8							
32	2	129150-23601	BEARING, CRANK PIN	4							
34	1	129100-23910	BEARING, PISTON PIN	4							1
35	1	129150-23611	BEARING, 0.25 US	4							2
37	1	129005-22900	PISTON ASSY, 0.25 OS	4							3
39	2	129005-22950	RING SET, 0.25 OS	4							3

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

Fig.9. LUB. OIL SYSTEM



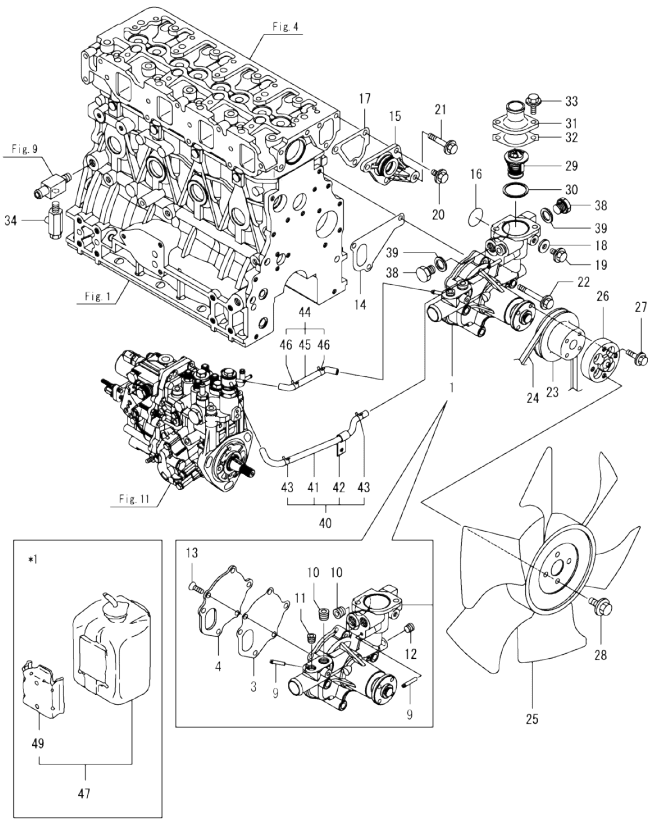
Remarks
(1)Spare parts.

(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-32000	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	129004-34802	DIPSTICK	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35042	GASKET	1							
19	1	129436-35070	PIPE ASSY, OIL INLET	1							
20	1	26106-080552	BOLT, M8X 55 PLATED	2							
21	1	129508-33010	COOLER ASSY, OIL	1							
22	2	129508-33050	O-RING	1							
23	1	129417-33111	NUT, OIL COOLER	1							
24	1	129006-35100	BRACKET ASSY, FILTER	1							
26	2	129417-35150	BOLT, STUD M20X67	1							
27	1	129150-35111	GASKET	1							
29	1	129006-44480	JOINT	1							
30	1	129508-49030	HOSE ASSY, WATER	1							
31	2	171008-03990	CLAMP, HOSE 18.5	1							
33	2	23080-015000	CLAMP, 15	1							
34	1	129508-49040	HOSE ASSY, WATER	1							
35	2	171008-03990	CLAMP, HOSE 18.5	1							
37	2	119940-59130	TUBE, CORRUGATED 19	1							
38	2	23080-015000	CLAMP, 15	1							
39	1	129103-49301	ELBOW, PT1/4	1							
40	1	26106-080202	BOLT, M8X 20 PLATED	3							
41	1	114250-39450	SWITCH, HYDRAULIC	1							
42	1	124160-39140	BOLT, PIPE JOINT M10	1							
43	1	119802-39450	PIPE ASSY, OIL	1							
44	1	129005-59830	BOLT ASSY, JOINT M8	1							
45	2	22190-080002	WASHER, SEAL 8	1							
46	2	23857-030000	BOLT, JOINT 3	1							
47	1	22190-080002	WASHER, SEAL 8	1							
48	1	22190-100002	WASHER, SEAL 10	2							
49	1	26366-060002	NUT, M6	1							
50	1	129150-35153	FILTER ASSY, D80X80L	1							1

Fig.10. COOLING WATER SYSTEM

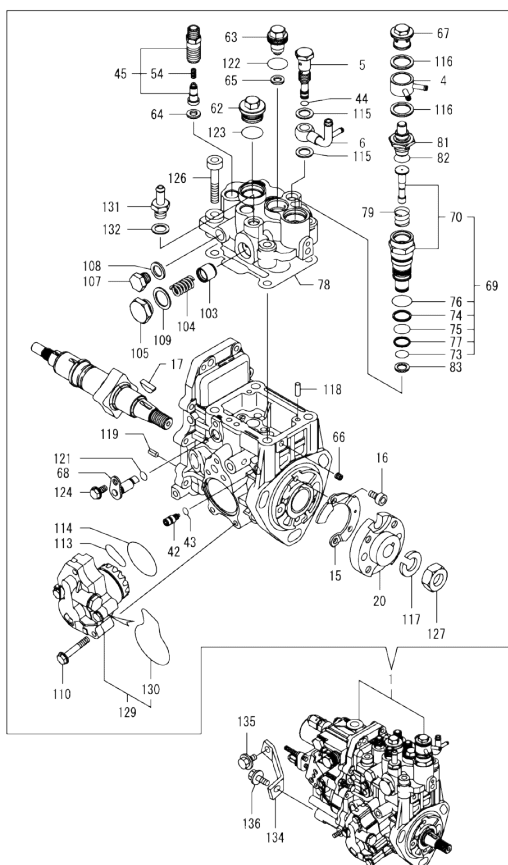


(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE, PUMP	1							
9	2	119802-49113	JOINT, PIPE	2							
10	2	129916-49740	PLUG, R3/8	2							
11	2	23875-020000	PLUG, R02	1							
12	2	23876-010000	PLUG, R01	1							
13	2	26577-060142	SCREW M 6X 14	3							
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET, THERMOSTAT	1							
18	1	23414-080000	GASKET, 8X1.0	1							
19	1	26106-080122	BOLT, M8X 12 PLATED	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	3							
21	1	26106-080452	BOLT, M8X 45 PLATED	1							
22	1	26106-080602	BOLT, M8X 60 PLATED	3							
23	1	129550-42350	V-PULLEY, D=120	1							
24	1	129612-42350	V-BELT, A38	1							
25	1	129916-44740	FAN, COOLING D=430	1							
26	1	129648-44771	SPACER, FAN 18MM	1							
27	1	26106-060222	BOLT, M6X 22 PLATED	4							
28	1	26106-080162	BOLT, M8X 16 PLATED	4							
29	1	129155-49801	THERMOSTAT, 71C	1							
30	1	129150-49811	GASKET, THERMOSTAT	1							
31	1	129350-49530	COVER, THERMOSTAT	1							
32	1	129795-49551	GASKET	1							
33	1	26106-080222	BOLT, M8X 22 PLATED	2							
34	1	119620-49290	COCK ASSY, 1/4	1							
38	1	121450-42450	PLUG, M16	2							
39	1	124465-44950	GASKET, 16	2							
40	1	129004-49610	HOSE ASSY, WATER	1							
41	2	129004-49711	HOSE, WATER	1							
42	2	119802-49730	RETAINER, PIPE	1							
43	2	124722-59050	CLAMP, HOSE 9	2							
44	1	129004-49620	HOSE ASSY, WATER	1							
45	2	129004-49721	HOSE, WATER	1							
46	2	124722-59050	CLAMP, HOSE 9	2							
47	1	720445-44200	TANK ASSY, SUB	1							
49	2	120445-44540	SUPPORT	1							

Remarks
*1.Loose parts.



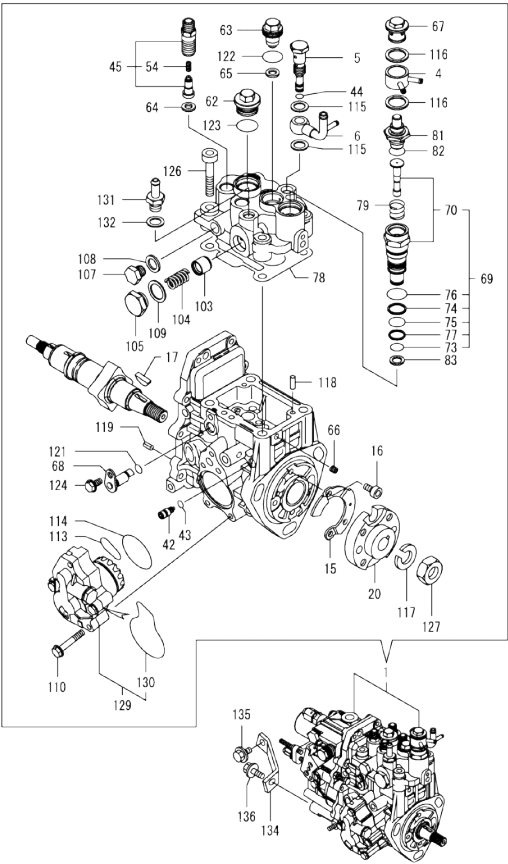
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Qty	I	R
1	1	729688-51350	PUMP ASSY, INJECTION	1								1
4	2	158553-51551	JOINT, COOLING WATER	1								
5	2	158601-51650	JOINT, OVER FLOW	1								
6	2	158552-51670	JOINT, OVER FLOW	1								
15	2	129008-51900	COVER, PUMP	1								
16	2	129008-51920	BOLT, SOCKET M6X10	2								
17	2	119802-51090	FEATHER KEY, 4X16	1								
20	2	158552-51151	FLANGE	1								
42	2	158600-51270	STOPPER, TAPPET	1								
43	2	158563-51281	O-RING, 4D S6	1								
44	2	158563-51281	O-RING, 4D S6	1								
45	2	129008-51390	VALVE ASSY, DELIVERY	4								
54	3	158563-51330	SPRING, DELIVERY	4								
62	2	158601-51550	PLUG, M22	1								
63	2	119802-51560	PLUG, M14	1								
64	2	158552-51571	GASKET, PLUG	4								
65	2	158552-51571	GASKET, PLUG	1								
66	2	158557-51570	PLUG, RACK	1								
67	2	158601-51570	PLUG	1								
68	2	158552-51580	LIFTER, LINK	1								
69	2	119802-51590	TIMER ASSY	1								
70	3	119802-51600	TIMER ASSY	1								
73	3	158553-51670	O-RING	1								
74	3	119802-51680	RING, BACKUP	1								
75	3	119802-51690	O-RING	1								
76	3	24356-190200	O-RING, 4D19020	1								
77	3	24372-000150	RING, BACK UP T2P15	1								
78	2	158552-51600	GASKET	1								
79	2	158553-51630	SPRING, TIMER	1								
81	2	158553-51650	THERMOELEMENT	1								
82	2	158553-51680	O-RING, P14	1								
83	2	158553-51680	GASKET, TIMER	1								
103	2	158601-51770	PISTON, ACCUMULATOR	1								
104	2	158552-51781	SPRING, ACCUMULATOR	1								
105	2	158601-51790	PLUG	1								
107	2	158553-51930	PLUG, M12	1								
108	2	22190-120002	WASHER, SEAL 12	1								
109	2	22190-180002	WASHER, SEAL 18	1								
110	2	158553-51770	BOLT	4								
113	2	158552-52311	O-RING	1								
114	2	158552-52400	O-RING, 4E S42	1								
115	2	22190-120002	WASHER, SEAL 12	2								
116	2	22190-180002	WASHER, SEAL 18	2								
117	2	22217-140000	WASHER, SPRING 14	1								
118	2	22312-050140	PIN, PARALLEL M5X14	2								
119	2	22351-050010	PIN, SPRING 5.0X10	2								
121	2	24311-000070	O-RING, 1AP7.0	1								

N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++ Copyright (C) 2013 YANMAR GLOBAL CS CO., LTD. All Rights Reserved.

Remarks

(1) Governor (Fig. 12) is incorporated in this Fuel Injection Pump (No. 1).

Fig.11. FUEL INJECTION PUMP



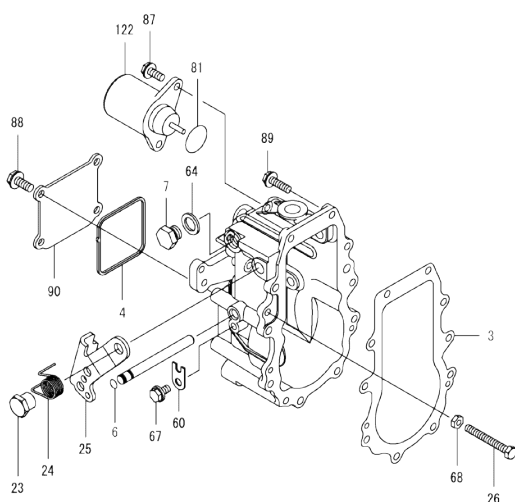
Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).

(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
127	2	26776-140002	NUT, LOCK M14	1							
129	2	158552-52100	PUMP ASSY, FUEL FEED	1							
130	3	158552-52500	O-RING	1							
131	2	119934-59910	JOINT, PIPE	1							
132	2	22190-120002	WASHER, SEAL 12	1							
134	1	129601-51250	RETAINER, PUMP	1							
135	1	26106-080162	BOLT, M8X 16 PLATED	1							
136	1	26106-080202	BOLT, M8X 20 PLATED	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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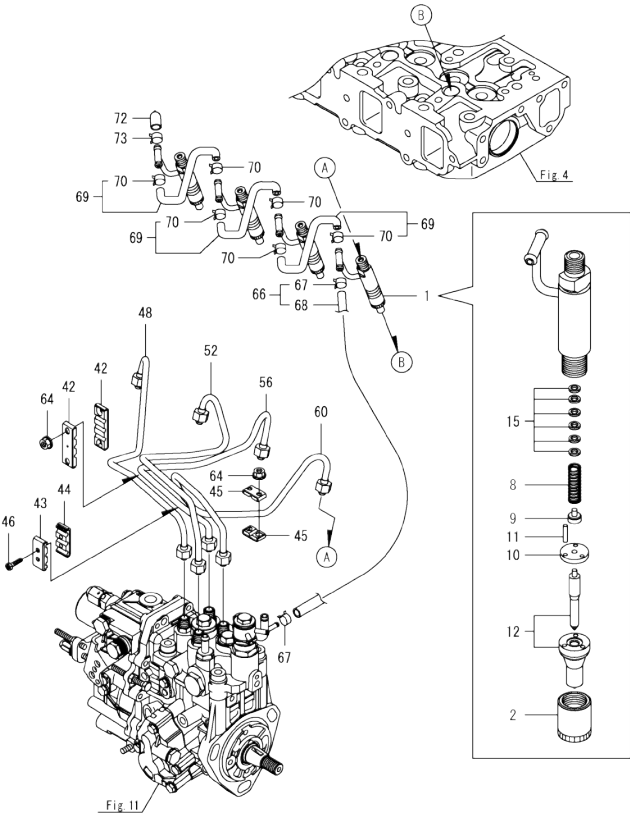
No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
3	2	158553-61050	GASKET	1						
4	2	158553-61070	GASKET	1						
6	2	129155-51280	O-RING, S6	1						
7	2	158553-51930	PLUG, M12	1						
23	2	129255-61410	NUT, M8	1						
24	2	119807-61420	SPRING, RETURN	1						
25	2	158552-61441	LEVER, REGULATOR	1						
26	2	129155-61460	BOLT, LIMITING	1						
60	2	119660-61901	STOPPER, SHAFT	1						
64	2	22190-120002	WASHER, SEAL 12	1						
67	2	26106-060102	BOLT, M6X 10 PLATED	1						
68	2	26756-060002	NUT, LOCK M6	1						
81	2	158552-61900	O-RING	1						
87	2	26106-060142	BOLT, M6X 14 PLATED	2						
88	2	26106-060142	BOLT, M6X 14 PLATED	4						
89	2	26106-060202	BOLT, M6X 20 PLATED	10						
90	2	129642-61060	COVER, GOVERNOR CASE	1						
122	2	119233-77932	SOLENOID, STOP	1						

Remarks

* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.11).

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.13. FUEL INJECTION VALVE

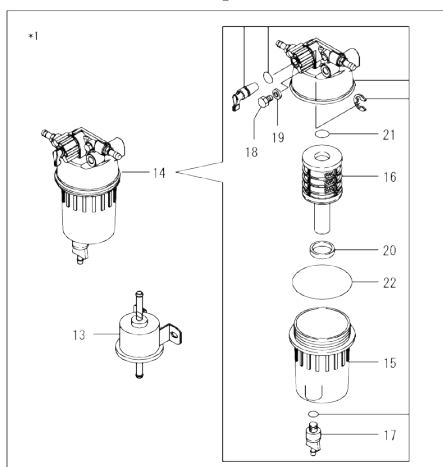


(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	4							
2	2	114250-53080	NUT, NOZZLE	4							
8	2	114250-53120	SPRING, NOZZLE	4							
9	2	114250-53130	SEAT, SPRING	4							
10	2	114250-53140	SPACER	4							
11	2	114250-53210	PIN	8							
12	2	129604-53300	NOZZLE ASSY, F.I.	4							
15	2	119803-53400	SHIM SET	4							
42	1	129688-59100	CLAMP, FO PIPE	2							
43	1	129688-59110	CLAMP, FO PIPE	1							
44	1	129688-59120	CLAMP, FO PIPE	1							
45	1	129688-59130	CLAMP, FO PIPE	2							
46	1	129688-59150	BOLT, HB4X18	2							
48	1	129601-59810	PIPE ASSY, INJECTION	1							
52	1	129601-59820	PIPE ASSY, INJECTION	1							
56	1	129601-59830	PIPE ASSY, INJECTION	1							
60	1	129601-59840	PIPE ASSY, INJECTION	1							
64	1	26366-060002	NUT, M6	4							
66	1	119802-59550	HOSE ASSY, RETURN	1							
67	2	124722-59050	CLAMP, HOSE 9	2							
68	2	119802-59560	HOSE, FUEL RETURN	1							
69	1	129486-59551	HOSE ASSY, RETURN	3							
70	2	124722-59050	CLAMP, HOSE 9	6							
72	1	119593-59581	CAP	1							
73	1	124060-77680	CLAMP, HOSE 10	1							

Fig.14. FUEL PIPE



Remarks
*1.Loose parts.

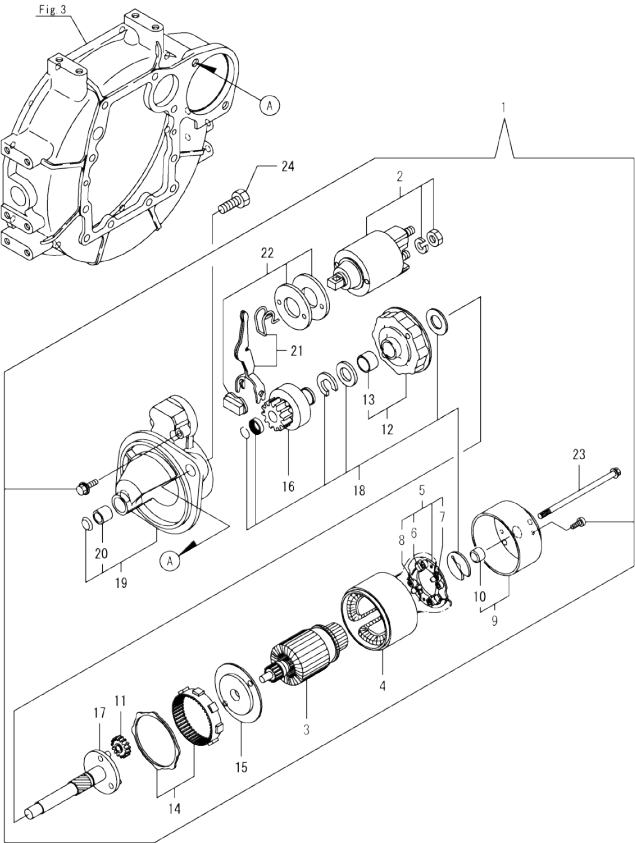
(A)=4TNV88-BDHKSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-55612	BRACKET, FILTER	1							
2	1	119802-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129630-59010	HOSE ASSY, FUEL	1							
5	2	124766-59050	CLAMP, HOSE 11.5	2							
6	2	129961-59110	TUBE, CORRUGATED 15	1							
7	2	105025-59560	HOSE, FUEL	1							
8	1	129956-59010	HOSE ASSY, FUEL	1							
9	2	124766-59050	CLAMP, HOSE 11.5	2							
10	2	129957-59101	TUBE, CORRUGATED 15	1							
11	2	105225-59511	HOSE, FUEL	1							
12	1	121750-59890	BAND, NYLON	1							
13	1	129612-52100	PUMP, FUEL FEED	1							
14	1	129242-55701	SEPARATOR ASSY;WATER	1							
14-1	1	129268-55701	SEPARATOR ASSY	1							N
(A=ES4090)											
15	2	129242-55720	CUP, SEPARATOR	1							
16	2	129242-55730	ELEMENT, FUEL	1							
17	2	129242-55740	PLUG, DRAIN	1							
18	2	129242-55750	VALVE, AIR VENT	1							
19	2	129242-55760	GASKET, PLUG	1							
20	2	129242-55770	FLOAT	1							
21	2	24311-000160	O-RING, 1AP16.0	1							
22	2	24321-000750	O-RING, 1AG75.0	1							

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.15. STARTER MOTOR(TO ES9363)

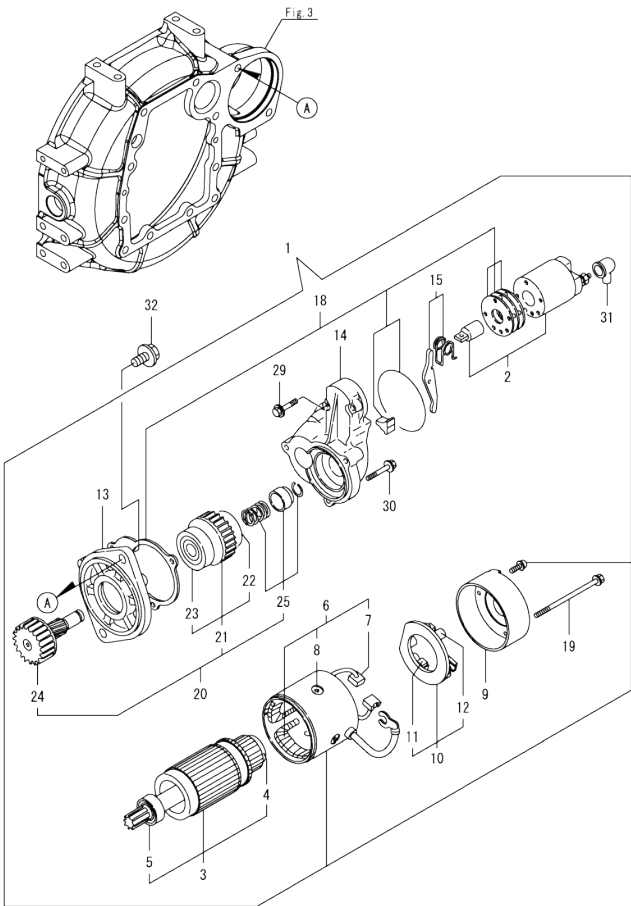


(A)=4TNV88-BDHSR
(B)=
(C)=

(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	26116-120202	BOLT, M12X 20 PLATED	2							
24-1	1	26106-120252	BOLT, M12X 25 PLATED	2							N
(A=EP9024)											

Fig.18. (15A)STARTER MOTOR(FROM ES9364)

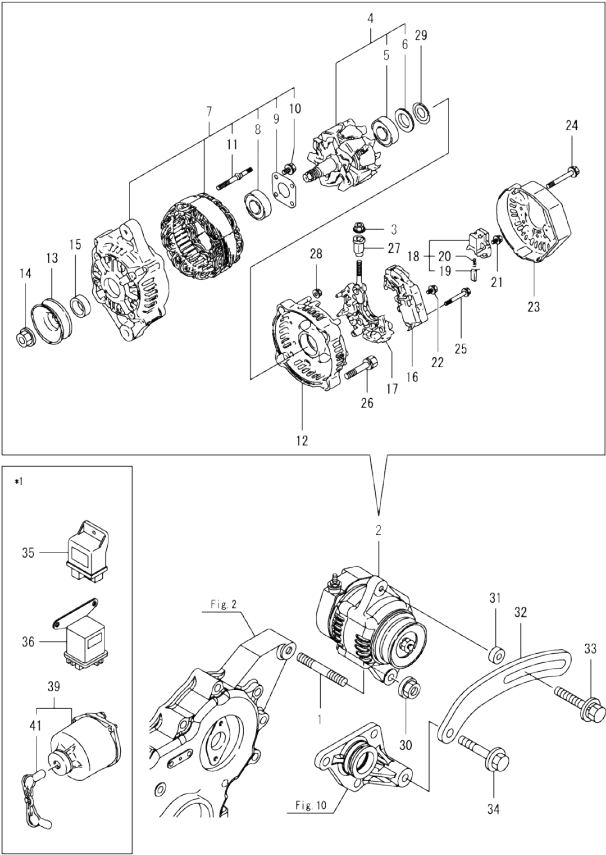


(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129136-77011 (A=ES9364)	STARTER	1							
2	2	129136-77310	SWITCH ASSY, MAGNET	1							
3	2	129900-77400	ARMATURE ASSY	1							
4	3	X2130350900	BEARING, BALL	1							
5	3	X2114255110	BEARING, BALL	1							
6	2	129900-77440	COIL ASSY, FIELD	1							
7	3	129900-77450	BRUSH, +	2							
8	3	171008-77450	SCREW, CORE SET	4							
9	2	129900-77460	COVER, REAR	1							
10	2	129900-77480	HOLDER ASSY, BRUSH	1							
11	3	129900-77500	BRUSH	2							
12	3	129400-77490	SPRING, BRUSH	4							
13	2	171008-77510	CASE, GEAR	1							
14	2	129136-77520	HOUSING, STARTOR	1							
15	2	171008-77540	LEVER SET, SHIFT	1							
18	2	129400-77571	COVER KIT, DUST	1							
19	2	129900-77640	BOLT, THROUGH	2							
20	2	171008-77650	PINION ASSY,W/CLUTCH	1							
21	3	X2114555500	CLUTCH ASSY	1							
22	4	X2114955020	BEARING, BALL	1							
23	4	X2240410100	BEARING, BALL	1							
24	3	171008-77660	SHAFT, PINION	1							
25	3	171008-77670	STOPPER SET, PINION	1							
29	2	26106-060322	BOLT, M6X 32 PLATED	2							
30	2	26106-060402	BOLT, M6X 40 PLATED	3							
31	2	171008-77750	COVER, TERMINAL	1							
32	1	26106-120252	BOLT, M12X 25 PLATED	2							

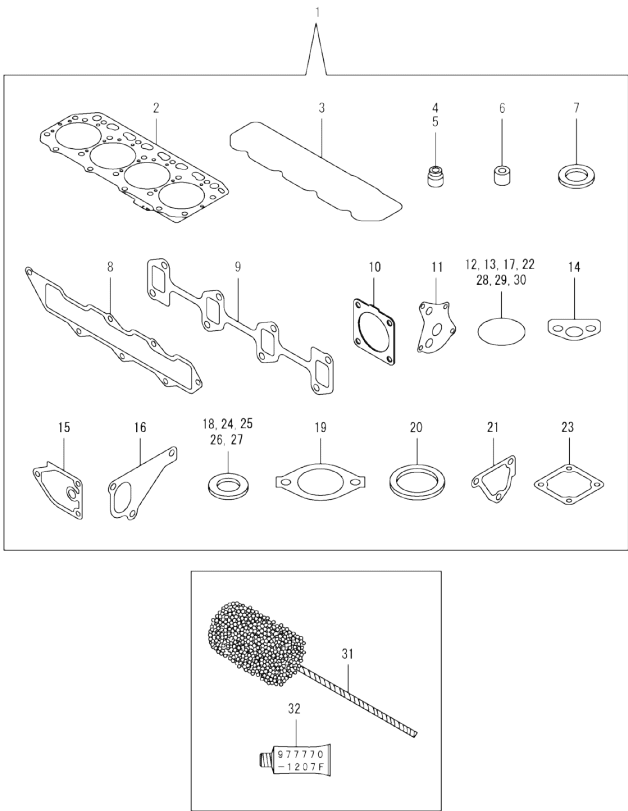
OCD11-M19300 ENGINE
Fig.16. GENERATOR



Remarks
*1.Loose parts.

										OCD11-M19300 Fig.16	
										(A)=4TNV88-BDHSR	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										(A) (B) (C) (D) (E) (F)	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129795-01900	BOLT, STUD M10X33	1							
2	1	129423-77200	GENERATOR ASSY, 40A	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-77421	FRAME ASSY,GENERATOR	1							
8	3	119620-79200	BEARING, BALL	1							
9	3	119620-79210	RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	BOLT, STUD	2							
12	2	119620-77440	FRAME ASSY	1							
13	2	119620-77461	PULLEY, GENERATOR	1							
14	2	119620-77471	NUT	1							
15	2	119620-77490	COLLAR	1							
16	2	129423-77710	REGULATOR ASSY	1							
17	2	119620-79260	HOLDER	1							
18	2	129052-79270	HOLDER, BRUSH	1							
19	3	119620-77480	BRUSH	2							
20	3	119620-79280	SPRING	2							
21	2	119620-79290	SCREW	6							
22	2	119620-79300	SCREW	1							
23	2	129240-79300	COVER	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	BUSH, INSULATION	1							
28	2	119620-79350	NUT	2							
29	2	119620-79360	WASHER, THRUST	1							
30	1	26306-100002	NUT, M10	1							
31	1	119940-77270	SPACER	1							
32	1	119802-77330	ADJUSTER, BELT	1							
33	1	129972-77341	BOLT, ADJUST L=50	1							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	119802-77200	RELAY, SAFETY	1							
36	1	119650-77911	RELAY ASSY, GLOW	2							
39	1	129115-91250	SWITCH ASSY, STARTER	1							
41	2	129115-91270	KEY	1							

Fig.17. GASKET SET



Remarks
(1)Optional parts.

(A)=4TNV88-BDHSR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129604-92600	GASKET SET	1							1
2	2	129407-01340	GASKET, HEAD	1							
3	2	129601-11310	GASKET, BONNET	1							
4	2	121400-11340	SEAL, VALVE STEM	4							
5	2	124460-11340	SEAL, VALVE STEM	4							
6	2	119802-11870	PROTECTOR, NOZZLE	4							
7	2	119625-11880	SEAT, NOZZLE	4							
8	2	129407-12110	GASKET, MANIFOLD	1							
9	2	129550-13110	GASKET, EXH.MANIFOLD	1							
10	2	129930-13201	GASKET, SILENCER	2							
11	2	129150-32020	GASKET, PUMP	1							
12	2	119609-32040	O-RING, P16	2							
13	2	129508-33050	O-RING	1							
14	2	129150-35042	GASKET	1							
15	2	129150-35111	GASKET	1							
16	2	129486-42021	GASKET, WATER PUMP	1							
17	2	129486-42140	O-RING, G30	1							
18	2	124465-44950	GASKET, 16	2							
19	2	129795-49551	GASKET	1							
20	2	129150-49811	GASKET, THERMOSTAT	1							
21	2	124395-49840	GASKET, THERMOSTAT	1							
22	2	121850-51960	O-RING	1							
23	2	129150-77511	GASKET, AIR HEATER	1							
24	2	22190-080002	WASHER, SEAL 8	7							
25	2	22190-100002	WASHER, SEAL 10	2							
26	2	22190-220002	WASHER, SEAL 22	1							
27	2	23414-080000	GASKET, 8X1.0	1							
28	2	24311-000120	O-RING, 1AP12.0	3							
29	2	24311-000320	O-RING, 1AP32.0	3							
30	2	24341-000240	O-RING, 1AS24.0	1							
31	1	129400-92430	HONE, FLEX	1							1
32	1	977770-1207F	GASKET,LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	14	7
105225-59511	14	11
114250-39450	9	41
114250-53080	13	2
114250-53120	13	8
114250-53130	13	9
114250-53140	13	10
114250-53210	13	11
118400-77170	15	11
119131-18320	6	5
119233-77932	12	122
119593-59581	13	72
119609-32040	2	12
	17	12
119620-01750	3	3
119620-49290	10	34
119620-77380	16	4
119620-77421	16	7
119620-77440	16	12
119620-77461	16	13
119620-77471	16	14
119620-77480	16	19
119620-77490	16	15
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79260	16	17
119620-79280	16	20
119620-79290	16	21
119620-79300	16	22
119620-79310	16	24
119620-79320	16	25
119620-79330	16	26
119620-79340	16	27
119620-79350	16	28
119620-79360	16	29
119625-11880	4	31
	17	7
119640-01640	3	9
119650-77911	16	36
119660-61901	12	60
119802-01561	2	8
119802-03110	4	41
119802-03121	4	42
119802-03130	4	43
119802-03141	4	44
119802-11260	4	4
119802-11270	4	5

Parts No.	Fig. No.	Ref. No.
119802-11870	4	30
	17	6
119802-21650	8	9
119802-25071	7	17
119802-25101	7	11
119802-25901	7	16
119802-39450	9	43
119802-49113	10	9
119802-49730	10	42
119802-51090	11	17
119802-51560	11	63
119802-51590	11	69
119802-51600	11	70
119802-51680	11	74
119802-51690	11	75
119802-55801	14	2
119802-59550	13	66
119802-59560	13	68
119802-77200	16	35
119802-77330	16	32
119803-01520	2	7
119803-21200	8	5
119803-25050	7	10
119803-53400	13	15
119807-61420	12	24
119865-21600	8	16
119934-01800	2	6
119934-59910	11	131
119940-59130	9	37
119940-77270	16	31
120130-11860	4	57
120270-54410	4	33
120445-44540	10	49
121023-01551	2	22
121111-21501	8	12
121400-11340	4	26
	17	4
121450-42450	10	38
121520-34810	9	17
121550-23200	8	31
121750-59890	14	12
121850-21680	8	11
121850-51960	2	13
	17	22
123501-79240	16	5
123900-13610	6	3
123900-13630	6	4
124060-01050	1	5
124060-77680	13	73
124160-01751	2	9

Parts No.	Fig. No.	Ref. No.
124160-01910	1	7
		8
124160-11360	4	50
124160-39140	9	42
124195-77770	15	23
124240-01871	2	10
124395-49840	10	17
	17	21
124460-11340	4	27
	17	5
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