

0CW10-M47800EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV88-BDVR and 4TNV88-BGNP for Norpro.

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2. Model name

Engine model	Vehicle	Vehicle made by
3TNV88-BGNP 4TNV88-BGNP	MARINE GENERATOR	Norpro

Contents

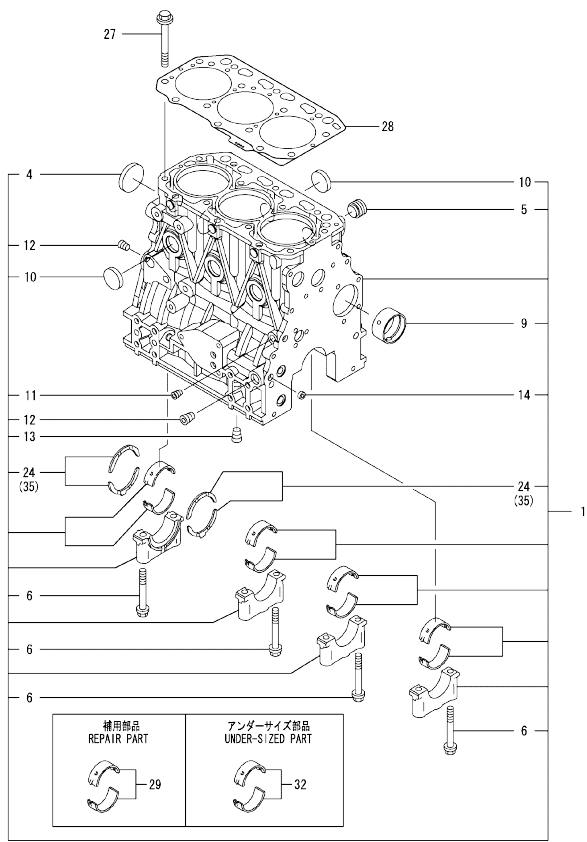
Fig. No.	Fig. Name
3TNV88-BGNP	
1.	CYLINDER BLOCK
2.	GEAR HOUSING
3.	FLYWHEEL HOUSING & OIL SUMP
4.	CYLINDER HEAD & BONNET
5.	SUCTION MANIFOLD
6.	EXHAUST MANIFOLD
7.	CAMSHAFT & DRIVING GEAR
8.	CRANKSHAFT & PISTON
9.	LUB.OIL SYSTEM
10.	COOLING WATER SYSTEM
11.	FUEL INJECTION PUMP
12.	GOVERNOR
13.	FUEL INJECTION VALVE
14.	FUEL LINE
15.	STARTING MOTOR
16.	GENERATOR
17.	GASKET SET

4TNV88-BGNP	
18.	CYLINDER BLOCK
19.	GEAR HOUSING
20.	FLYWHEEL HOUSING & OIL SUMP
21.	CYLINDER HEAD & BONNET
22.	SUCTION MANIFOLD

Fig. No.	Fig. Name
23.	EXHAUST MANIFOLD
24.	CAMSHAFT & DRIVING GEAR
25.	CRANKSHAFT & PISTON
26.	LUB.OIL SYSTEM
27.	COOLING WATER SYSTEM
28.	FUEL INJECTION PUMP
29.	GOVERNOR
30.	FUEL INJECTION VALVE
31.	FUEL LINE
32.	STARTING MOTOR
33.	GENERATOR
34.	GASKET SET

0CW10-M47800

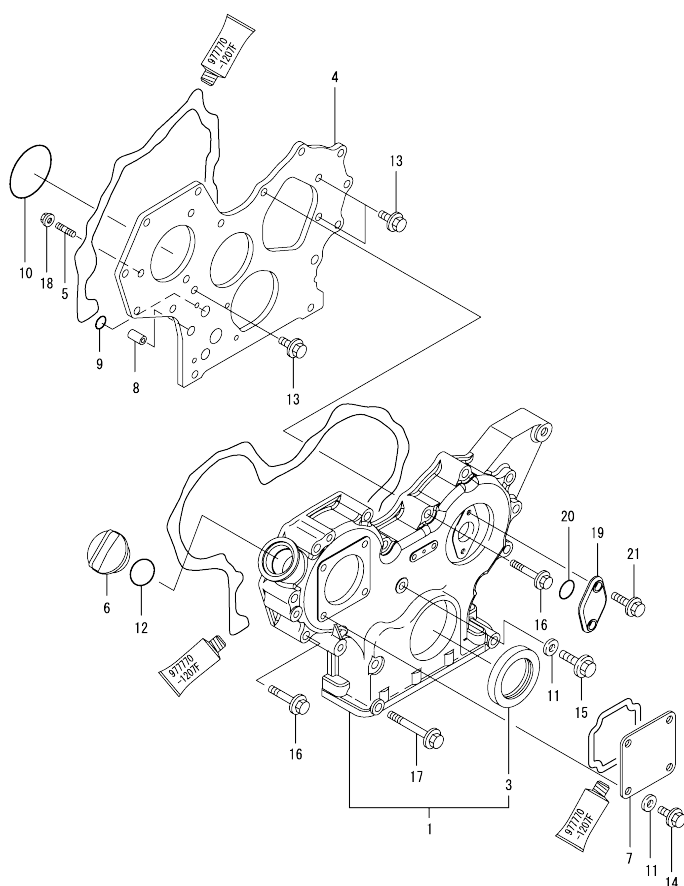
Fig.1. CYLINDER BLOCK



Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
4	2	129001-01250	PLUG, 50	1							
5	2	171051-01921	PLUG, NPTF1	1							
6	2	129150-02020	BOLT, METAL CAP	8							
9	2	129795-02412	BUSH, CAMSHAFT	1							
10	2	27241-300000	PLUG 30	6							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	2							
13	2	124160-01910	PLUG, PT1/4	1							
14	2	27241-120000	PLUG, 12	2							
24	2	129150-02931	BEARING, THRUST	2							
27	1	129150-01200	BOLT, HEAD	14							
28	1	129001-01340	GASKET, HEAD	1							
29	1	129001-02931	BEARING, MAIN	4							1
32	1	129150-02871	BEARING, 0.25 US	4							2
35	1	129150-02941	BEARING, THRUST 0.25	1							3

Fig.2. GEAR HOUSING

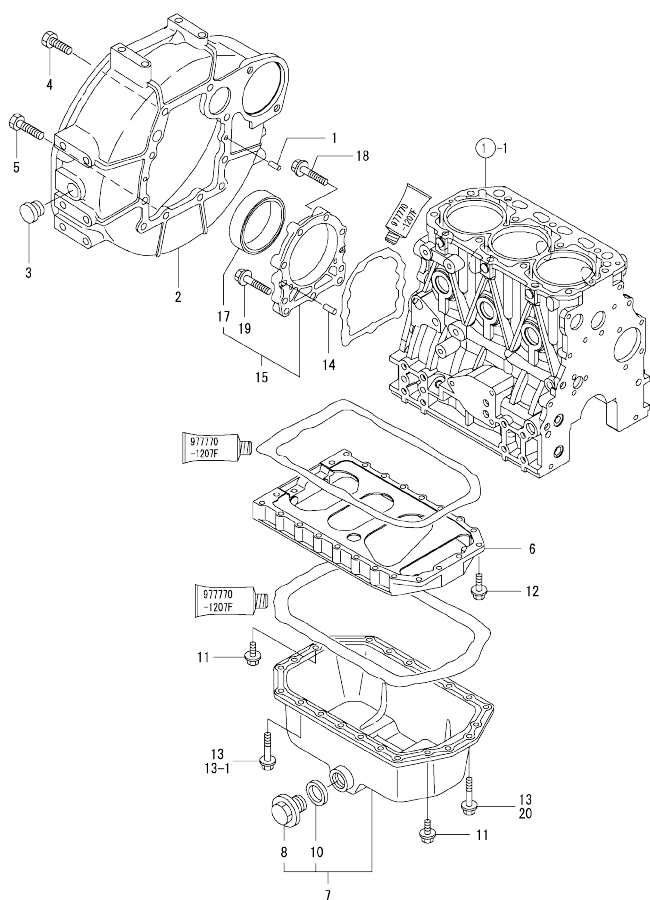


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719803-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	COVER, FILLER	1							
7	1	124240-01871	COVER	1		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

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. FLYWHEEL HOUSING & OIL SUMP

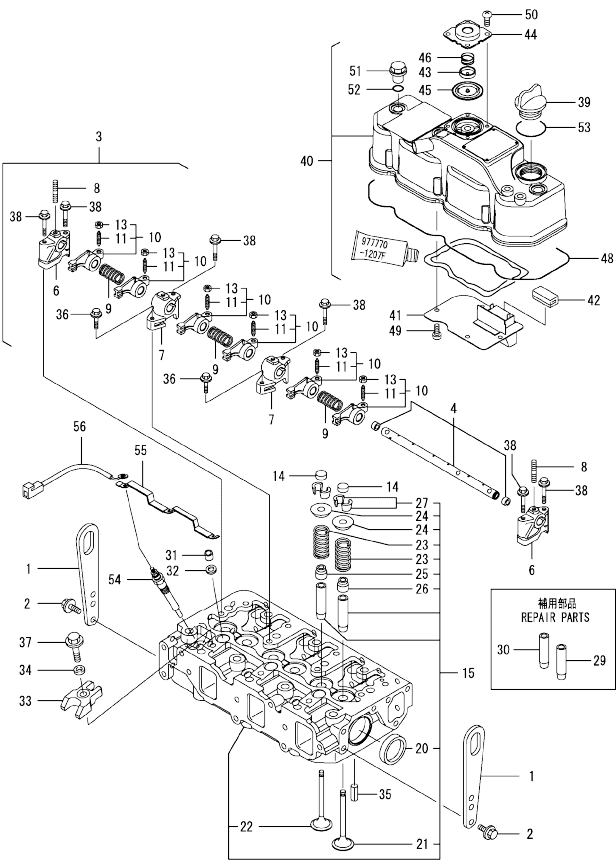


		(A)=3TNV88-BGNP (B)=4TNV88-BGNP (C)=		(D)= (E)= (F)=		Qty			
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	129100-01580	PIN, M8X16	2					
2	1	129612-01600	HOUSING, FLYWHEEL	1					
3	1	119620-01750	CAP	1					
4	1	26206-100252	BOLT, M10X 25 PLATED	6					
5	1	26206-100302	BOLT, M10X 30 PLATED	4					
6	1	129100-01730	SPACER, OIL SUMP	1					
7	1	129100-01760	SUMP ASSY, OIL	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	20					
13-1	1	26106-080452	BOLT, M8X 45 PLATED	16					K
(A=FROM 1ST)									
14	1	129100-01580	PIN, M8X16	2					
15	1	129100-01640	CASE ASSY, OIL SEAL	1					
17	2	129795-01780	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					W
(A=FROM 1ST)									

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

0CW10-M47800

Fig.4. CYLINDER HEAD & BONNET

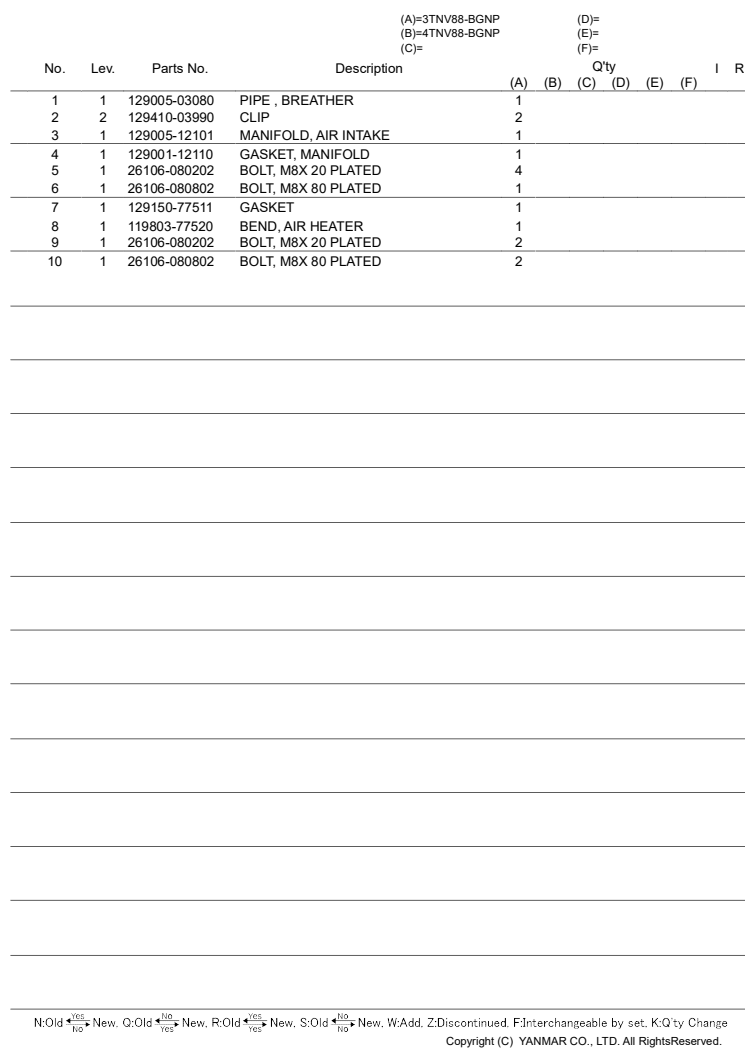


Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER	2							
2	1	26106-080162	BOLT, M8X 16 PLATED	4							
3	1	129004-11241	SHAFT ASSY, ROCKER	1							
4	2	129004-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	129004-11650	ARM, ROCKER	6							
11	3	129150-11230	SCREW, VALVE ADJUST	6							
13	3	129150-11750	NUT, M8	6							
14	1	129150-11370	CAP, VALVE	6							
15	1	129008-11700	HEAD ASSY, CYLINDER	1							
20	2	27241-400000	PLUG, 40	2							
21	2	129005-11100	VALVE, INTAKE	3							
22	2	129100-11112	VALVE, EXHAUST	3							
23	2	129795-11120	SPRING, VALVE	6							
24	2	129795-11180	RETAINER, SPRING	6							
25	2	121400-11340	SEAL, VALVE STEM	3							
26	2	124460-11340	SEAL, VALVE STEM	3							
27	2	27310-080001	COTTER, 8	6							
29	1	120130-11860	GUIDE, VALVE	3							1
30	1	129150-11810	GUIDE, VALVE	3							1
31	1	119802-11870	PROTECTOR, NOZZLE	3							
32	1	119625-11880	SEAT, NOZZLE	3							
33	1	129004-11900	RETAINER, NOZZLE	3							
34	1	120270-54410	WASHER, INJECTOR	3							
35	1	22351-060012	PIN, SPRING 6.0X12	2							
36	1	26106-080252	BOLT, M8X 25 PLATED	2							
37	1	26106-080352	BOLT, M8X 35 PLATED	3							
38	1	26106-080502	BOLT, M8X 50 PLATED	6							
39	1	124160-01751	COVER, FILLER	1							
40	1	129004-11350	BONNET ASSY, HEAD	1							
41	2	129004-03010	PLATE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
48	2	129004-11310	GASKET, BONNET	1							
49	2	22857-500100	SCREW, 5X10	4							
50	2	22857-500100	SCREW, 5X10	4							
51	1	124160-11360	KNOB	3							
52	1	24311-000120	O-RING, 1AP12.0	3							
53	1	24311-000320	O-RING, 1AP32.0	1							
54	1	129008-77800	PLUG, GLOW	3							
55	1	129008-77820	CONNECTOR, GLOW PLUG	1							
56	1	119803-77830	HARNES, WIRE	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. SUCTION MANIFOLD



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

Fig.6. EXHAUST MANIFOLD



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-13110	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET	1							
3	1	123900-13610	STUD, M8X80	2							
4	1	123900-13630	BOLT, M8X80	4							
5	1	119131-18320	STUD, M6X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	129004-13200	GASKET, SILENCER	1							

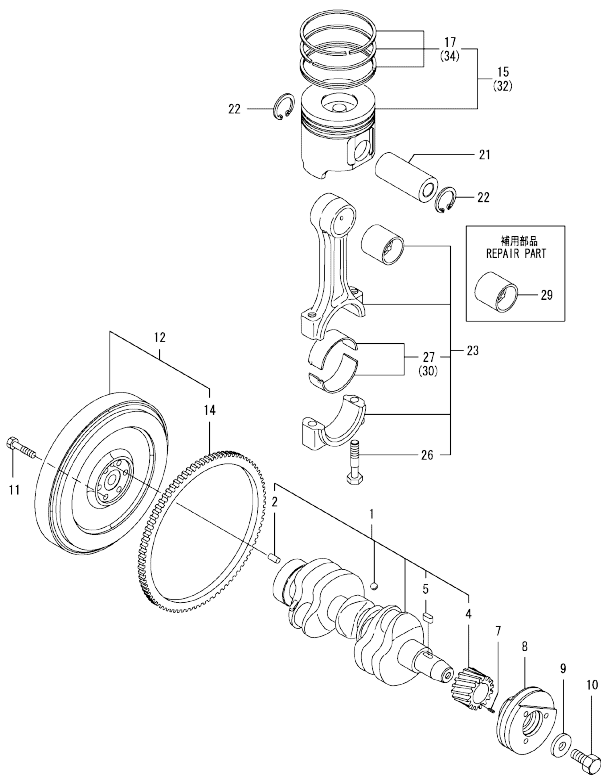
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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N:Old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

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Fig.8. CRANKSHAFT & PISTON

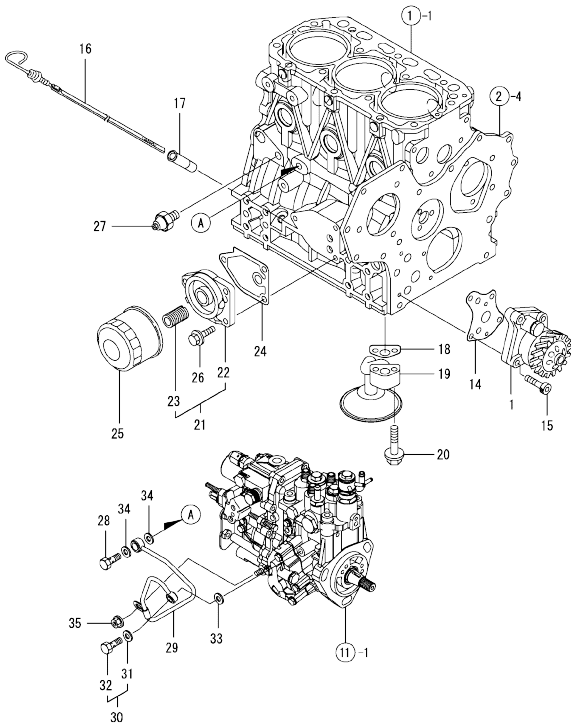


Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129008-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	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, 120	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171340-21580	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	129008-22080	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	BEARING, CRANK PIN	3							
29	1	129100-23910	BEARING, PISTON PIN	3							1
30	1	129150-23611	BEARING, 0.25 US	3							2
32	1	129008-22900	PISTON ASSY, 0.25 OS	3							3
34	2	129005-22950	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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Fig.9. LUB.OIL SYSTEM

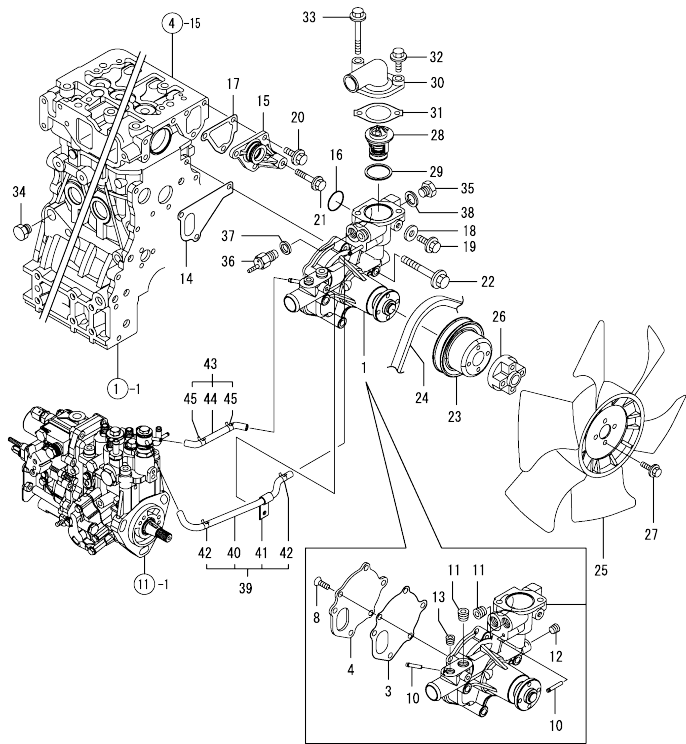


Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	129004-34802	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35042	GASKET	1							
19	1	129100-35301	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	119802-35100	BRACKET ASSY, FILTER	1							
22	2	119802-35110	BRACKET, FILTER	1							
23	2	129100-35140	STUD	1							
24	1	129150-35111	GASKET	1							
25	1	129150-35153	FILTER	1							1
26	1	26106-080202	BOLT, M8X 20 PLATED	3							
27	1	114250-39450	SWITCH, 0.5KG	1							
28	1	124160-39140	BOLT, PIPE JOINT M10	1							
29	1	119802-39450	PIPE ASSY, OIL	1							
30	1	129005-59830	BOLT ASSY, JOINT M8	1							
31	2	22190-080002	WASHER, SEAL 6	1							
32	2	23857-030000	BOLT, JOINT 3	1							
33	1	22190-080002	WASHER, SEAL 6	1							
34	1	22190-100002	WASHER, SEAL 10	2							
35	1	26366-060002	NUT, M6	1							

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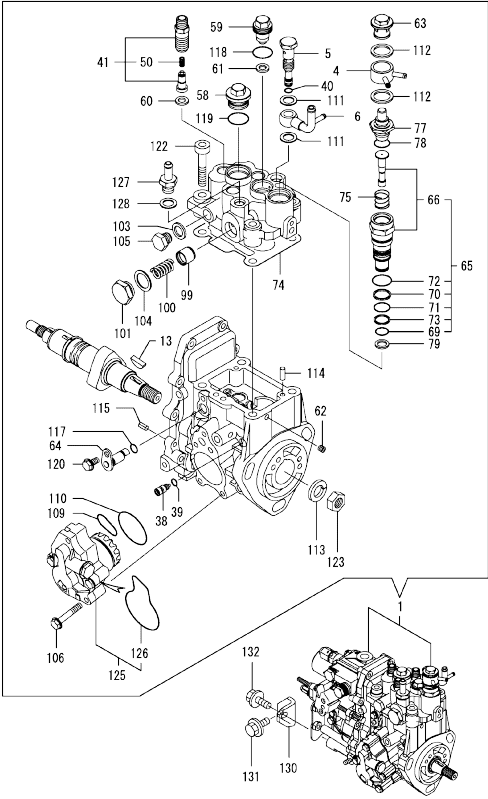
Fig.10. COOLING WATER SYSTEM



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	1							
8	2	121850-42410	SCREW	3							
10	2	119802-49113	JOINT, PIPE	2							
11	2	129916-49740	PLUG, R03	2							
12	2	23876-010000	PLUG, R01	1							
13	2	23876-020000	PLUG, R02	1							
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	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	129155-42350	V-PULLEY	1							
24	1	119831-42290	V-BELT, A37.5	1							
25	1	129612-44700	FAN, COOLING	1							
26	1	121267-44760	SPACER	1							
27	1	26106-060302	BOLT, M6X 30 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71	1							
29	1	129150-49811	GASKET, THERMOSTAT	1							
30	1	124101-49531	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET	1							
32	1	26106-080252	BOLT, M8X 25 PLATED	1							
33	1	26106-080652	BOLT, M8X 65 PLATED	1							
34	1	171056-49120	PLUG, DRAIN	1							
35	1	121450-42450	PLUG, M16	1							
36	1	121250-44901	SWITCH, 110	1							
37	1	124465-44950	GASKET, 16	1							
38	1	124465-44950	GASKET, 16	1							
39	1	129004-49610	PIPE ASSY, WATER	1							
40	2	129004-49711	PIPE ASSY, WATER	1							
41	2	119802-49730	RETAINER, PIPE	1							
42	2	124722-59050	CLIP, HOSE 9	2							
43	1	129004-49620	PIPE ASSY, WATER	1							
44	2	129004-49721	PIPE ASSY, WATER	1							
45	2	124722-59050	CLIP, HOSE 9	2							

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

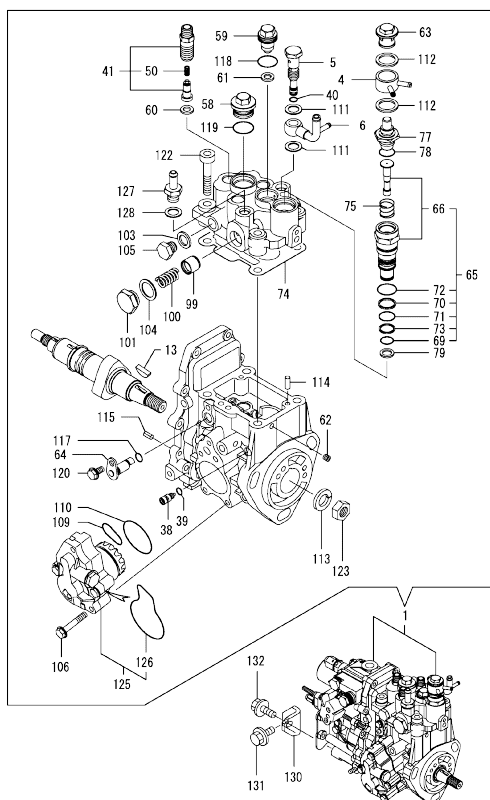


Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729283-51390	PUMP ASSY, INJECTION	1							1
4	2	158553-51551	JOINT	1							
5	2	158601-51650	JOINT, OVER FLOW	1							
6	2	158552-51670	JOINT, OVER FLOW	1							
13	2	119802-51090	KEY, 4X16	1							
38	2	158600-51270	STOPPER, TAPPET	1							
39	2	158563-51281	O-RING, 4D S6	1							
40	2	158563-51281	O-RING, 4D S6	1							
41	2	129008-51390	VALVE ASSY, DELIVERY	3							
50	3	158563-51330	SPRING, DELIVERY	3							
58	2	158601-51550	PLUG	1							
59	2	119802-51560	PLUG, BARREL	1							
60	2	158552-51571	GASKET	3							
61	2	158552-51571	GASKET	1							
62	2	158557-51570	PLUG	1							
63	2	158601-51570	PLUG	1							
64	2	158552-51580	LIFTER	1							
65	2	119802-51590	TIMER SET	1							
66	3	119802-51600	TIMER ASSY	1							
69	3	158553-51670	O-RING, 1011	1							
70	3	119802-51680	RING, BACK UP	1							
71	3	119802-51690	O-RING	1							
72	3	24356-010200	O-RING, 4D1020	1							
73	3	24372-000150	RING, BACK UP T2P15	1							
74	2	158552-51600	GASKET	1							
75	2	158553-51630	SPRING, TIMER	1							
77	2	158553-51640	ELEMENT	1							
78	2	158553-51660	O-RING, P14	1							
79	2	158553-51680	GASKET	1							
99	2	158601-51770	PISTON	1							
100	2	158552-51781	SPRING	1							
101	2	158601-51790	PLUG	1							
103	2	22190-120002	WASHER, SEAL 12	1							
104	2	22190-180002	WASHER, SEAL 18	1							
105	2	23887-120002	PLUG, 12	1							
106	2	158553-51770	BOLT	4							
109	2	158552-52310	O-RING	1							
110	2	158552-52400	O-RING, 4E S42	1							
111	2	22190-120002	WASHER, SEAL 12	2							
112	2	22190-180002	WASHER, SEAL 18	2							
113	2	22217-140000	WASHER, SPRING 14	1							
114	2	22312-050140	PIN, PARALLEL M5X14	2							
115	2	22351-050010	PIN, SPRING 5.0X10	2							
117	2	24311-000070	O-RING, 1AP7.0	1							
118	2	24356-010180	O-RING, 4D1018	1							
119	2	24356-010200	O-RING, 4D1020	1							
120	2	26106-060102	BOLT, M6X 10 PLATED	1							
122	2	26450-080452	BOLT, M8X 45	4							
123	2	26776-140002	NUT, LOCK M14	1							
125	2	158552-52100	PUMP ASSY, FUEL FEED	1							
126	3	158552-52500	O-RING	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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Fig.11. FUEL INJECTION PUMP



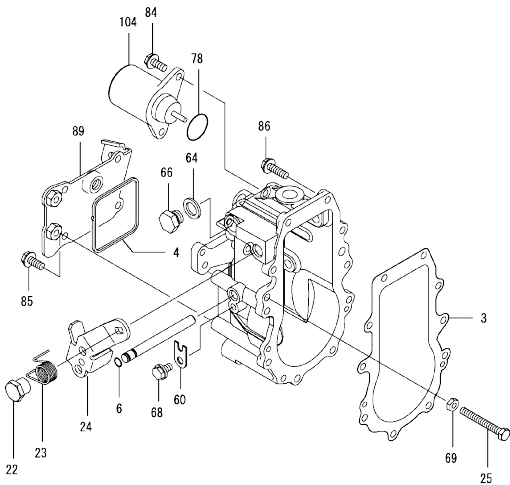
Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).

				(A)=3TNV88-BGNP (B)=4TNV88-BGNP (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
127	2	119934-59910	JOINT, PIPE	1							
128	2	22190-120002	WASHER, SEAL 12								
130	1	119802-51250	RETAINER, PUMP	1							
131	1	26106-080162	BOLT, M8X 16 PLATED								
132	1	26106-080202	BOLT, M8X 20 PLATED	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

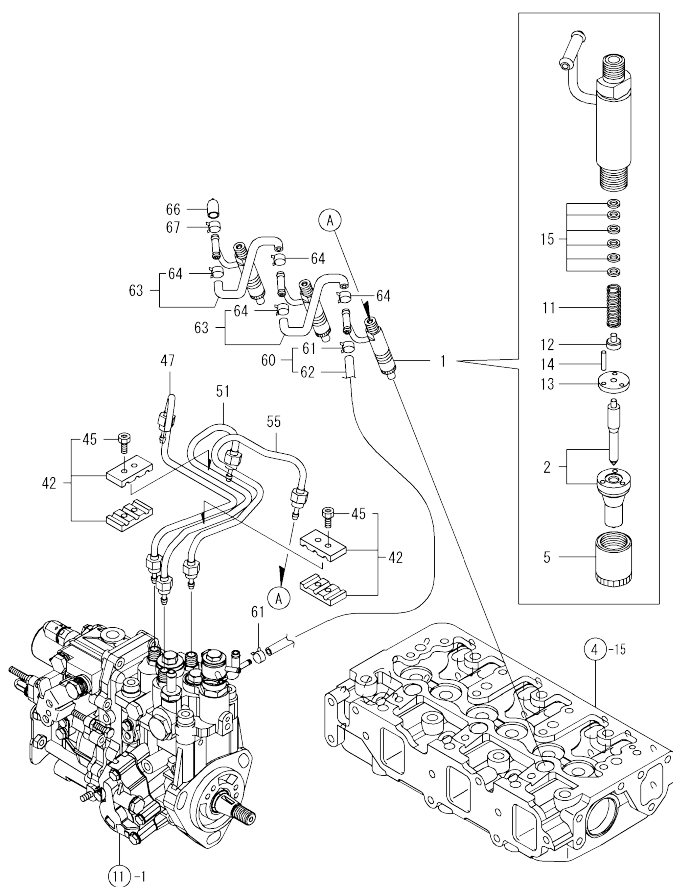
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Fig.12. GOVERNOR



Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.11).

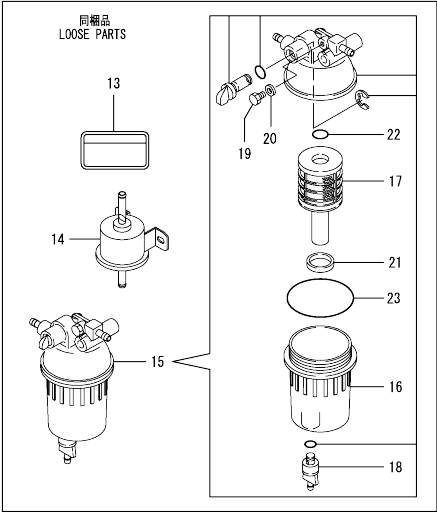
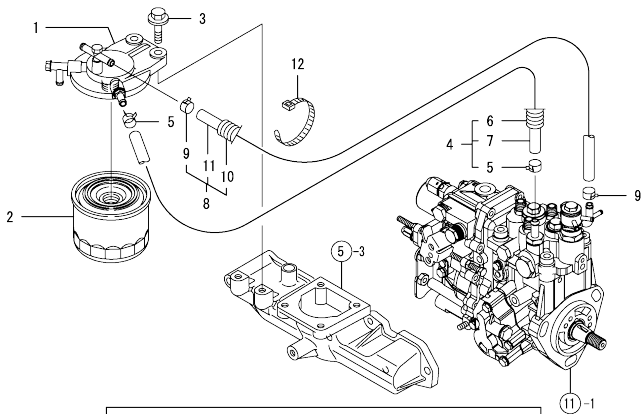
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-61280	O-RING, S6	1							
22	2	129255-61410	NUT, LOCK	1							
23	2	119807-61420	SPRING, RETURN	1							
24	2	129246-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, IDLE	1							
60	2	119660-61901	RETAINER, SHAFT	1							
64	2	22190-120000	WASHER, SEAL 12	1							
66	2	23887-120002	PLUG, 12	1							
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26756-060002	NUT, LOCK M6	1							
78	2	158552-61900	O-RING	1							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060142	BOLT, M6X 14 PLATED	4							
86	2	26106-060202	BOLT, M6X 20 PLATED	10							
89	2	129246-61061	COVER, GOVERNOR CASE	1							
104	2	119653-77950	SOLENOID, STOP	1							



				(A)=3TNV88-BGNP (B)=4TNV88-BGNP (C)=	(D)= (E)= (F)=							
No.	Lev.	Parts No.	Description	Qty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	729283-53100	VALVE ASSY,INJECTION	3								
2	2	129283-53000	VALVE ASSY,INJECTION	3								
5	2	114250-53080	NUT, NOZZLE D16.95	3								
11	2	114250-53120	SPRING, NOZZLE	3								
12	2	114250-53130	SEAT, SPRING	3								
13	2	114250-53140	PLATE	3								
14	2	114250-53210	PIN	6								
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	PIPE ASSY, RETURN	1								
61	2	124722-59050	CLIP, HOSE 9	2								
62	2	119802-59560	PIPE, FUEL RETURN	1								
63	1	129486-59551	PIPE ASSY, RETURN	2								
64	2	124722-59050	CLIP, HOSE 9	4								
66	1	119593-59581	CAP	1								
67	1	124060-77680	CLIP, HOSE 10	1								

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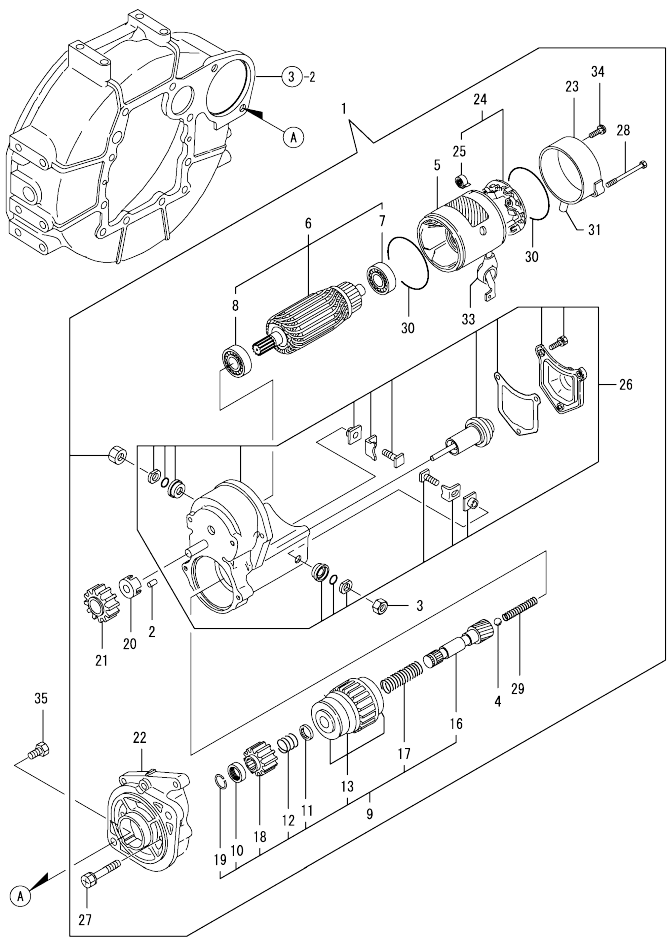
Fig.14. FUEL LINE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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	129044-59010	PIPE, D13/7.5X220	1							
5	2	124766-59050	CLIP, HOSE 12	2							
6	2	129044-59100	TUBE, CORRUGATED	1							
7	2	129044-59510	PIPE, FUEL 220	1							
8	1	129950-59311	PIPE, FUEL	1							
9	2	124766-59050	CLIP, HOSE 12	2							
10	2	129961-59110	TUBE, CORRUGATED	1							
11	2	105025-59580	PIPE, FUEL	1							
12	1	121750-59890	BAND, 140	1							
13	1	114110-07760	LABEL, FUEL CAUTION	1							
14	1	119225-52102	PUMP ASSY, FUEL FEED	1							
15	1	129242-55700	SEPARATOR ASSY	1							
16	2	129242-55720	CUP	1							
17	2	129242-55730	ELEMENT	1							
18	2	129242-55740	PLUG, DRAIN	1							
19	2	129242-55750	VALVE, AIR VENT	1							
20	2	129242-55760	GASKET	1							
21	2	129242-55770	FLOAT	1							
22	2	24311-000160	O-RING, 1AP16.0	1							
23	2	24321-000750	O-RING, 1AG75.0	1							

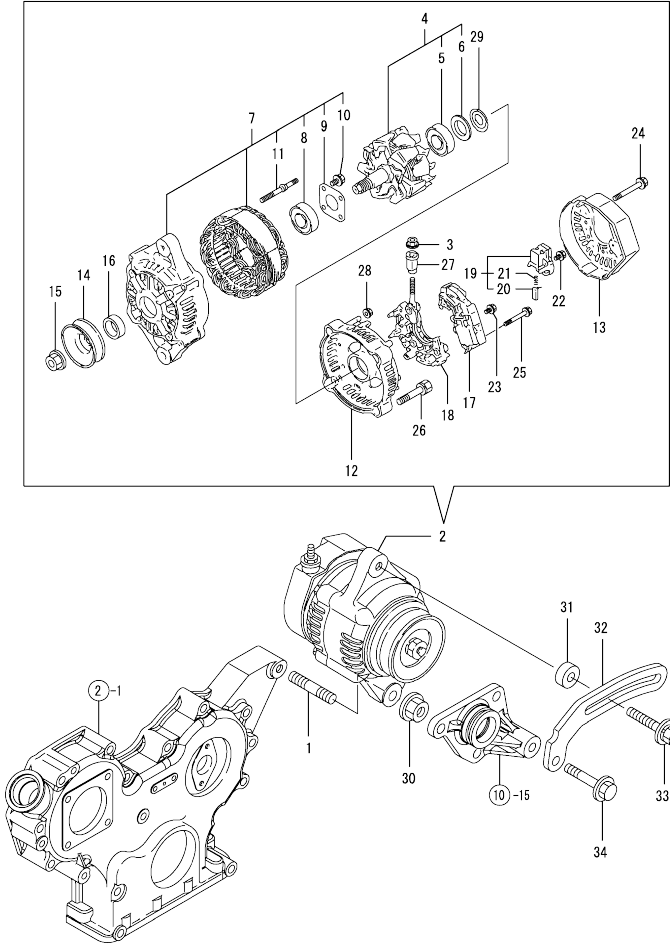
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Fig.15. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129129-77010	STARTER ASSY	1							
2	2	X0283060061	ROLLER	5							
3	2	X9490561370	NUT	1							
4	2	X9491200240	BALL	1							
5	2	129129-77210	YOKE ASSY	1							
6	2	129129-77220	ARMATURE ASSY	1							
7	3	129129-77230	BEARING	1							
8	3	129129-77240	BEARING	1							
9	2	129129-77250	STARTER	1							
10	3	X0280210230	NUT	1							
11	3	X0283270140	RETAINER	1							
12	3	X9491703371	SPRING, COIL	1							
13	3	129129-77390	CLUTCH ASSY	1							
16	3	129129-77400	SHAFT	1							
17	3	129129-77410	SPRING, COIL	1							
18	3	129129-77420	PINION, STARTER	1							
19	3	129129-77430	RING	1							
20	2	129129-77260	RETAINER	1							
21	2	129129-77270	PINION	1							
22	2	129129-77280	HOUSING	1							
23	2	129129-77290	FRAME	1							
24	2	129129-77300	HOLDER ASSY	1							
25	3	X9491730461	SPRING	4							
26	2	129129-77310	SWITCH ASSY	1							
27	2	129129-77320	BOLT	2							
28	2	129129-77330	BOLT	2							
29	2	129129-77340	SPRING	1							
30	2	129129-77350	O-RING	2							
31	2	129129-77362	COVER	1							
33	2	129129-77380	CAP	1							
34	2	129129-77460	SCREW	2							
35	1	26116-120252	BOLT, M12X 25 PLATED	2							

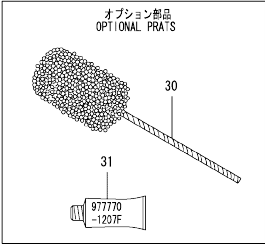
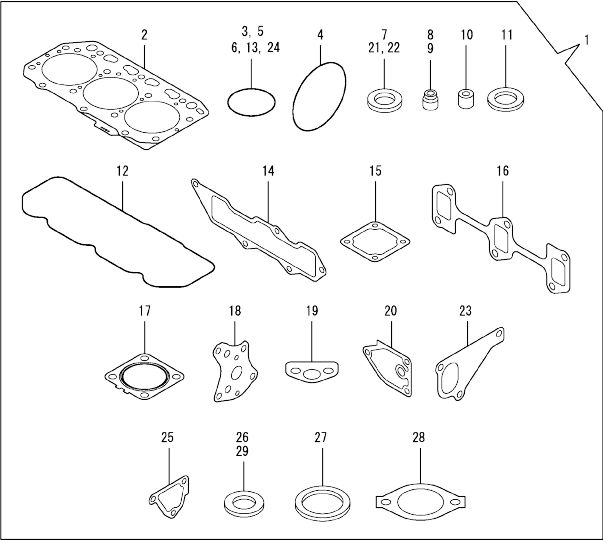
Fig.16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	STUD	1							
2	1	129423-77200	GENERATOR, 12V-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	1							
7	2	119620-77421	FRAME ASSY, DRIVE	1							
8	3	119620-79200	BEARING, BALL	1							
9	3	119620-79210	PLATE, RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	STUD	2							
12	2	119620-77440	FRAME ASSY	1							
13	2	129240-79300	COVER	1							
14	2	119620-77461	PULLEY	1							
15	2	119620-77471	NUT	1							
16	2	119620-77490	COLLAR	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	6							
23	2	119620-79300	SCREW	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, GENERATOR	1							
32	1	119940-77330	ADJUSTER	1							
33	1	129972-77341	BOLT, ADJUSTER L=50	1							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							

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Fig.17. GASKET SET

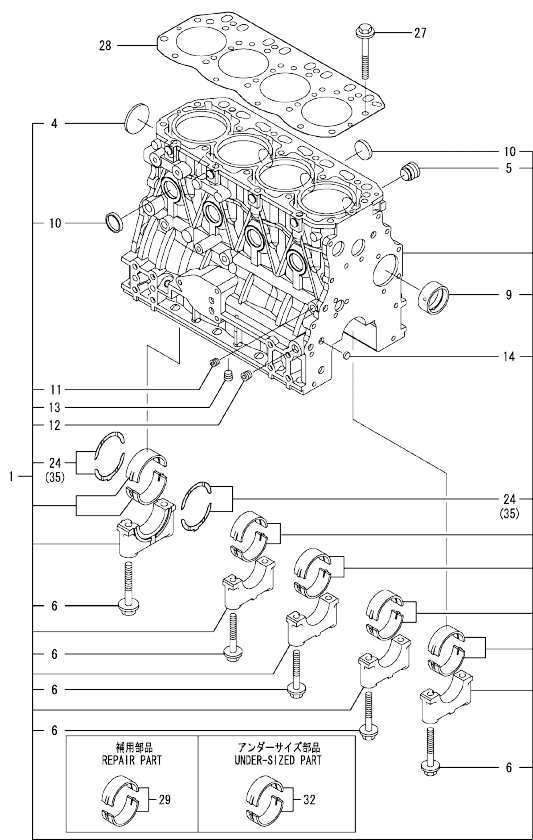


Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-92750	GASKET SET	1							1
2	2	129001-01340	GASKET, HEAD	1							
3	2	119609-32040	O-RING, P16	2							
4	2	121850-51960	O-RING	1							
5	2	24311-000320	O-RING, 1AP32.0	2							
6	2	24341-000240	O-RING, 1AS24.0	1							
7	2	22190-220002	WASHER, SEAL 22	1							
8	2	121400-11340	SEAL, VALVE STEM	3							
9	2	124460-11340	SEAL, VALVE STEM	3							
10	2	119802-11870	PROTECTOR, NOZZLE	3							
11	2	119625-11880	SEAT, NOZZLE	3							
12	2	129004-11310	GASKET, BONNET	1							
13	2	24311-000120	O-RING, 1AP12.0	3							
14	2	129001-12110	GASKET, MANIFOLD	1							
15	2	129150-77511	GASKET	1							
16	2	129150-13110	GASKET	1							
17	2	129004-13200	GASKET, SILENCER	1							
18	2	129150-32020	GASKET, PUMP	1							
19	2	129150-35042	GASKET	1							
20	2	129150-35111	GASKET	1							
21	2	22190-080002	WASHER, SEAL 6	7							
22	2	22190-100002	WASHER, SEAL 10	2							
23	2	129486-42021	GASKET, WATER PUMP	1							
24	2	129486-42140	O-RING, G30	1							
25	2	124395-49840	GASKET	1							
26	2	23414-080000	GASKET, 8X1.0	1							
27	2	129150-49811	GASKET, THERMOSTAT	1							
28	2	129795-49551	GASKET	1							
29	2	124465-44950	GASKET, 16	2							
30	1	129400-92430	HONE	1							1
31	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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Fig.18. CYLINDER BLOCK

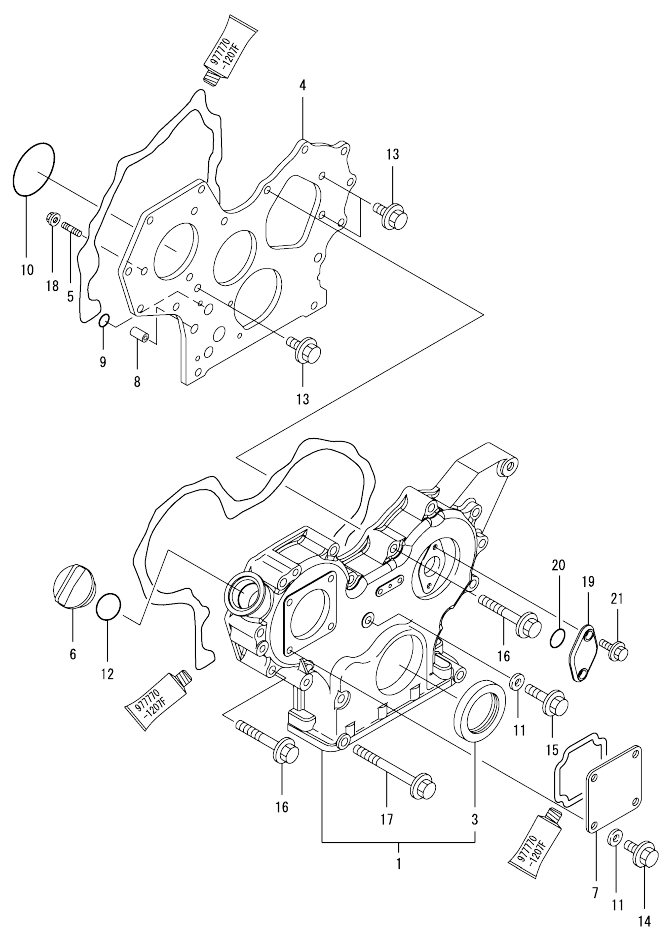


Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-01560	BLOCK ASSY, CYLINDER		1						
4	2	129001-01250	PLUG, 50		1						
5	2	171051-01921	PLUG, NPTF1		1						
6	2	129150-02020	BOLT, METAL CAP		10						
9	2	129795-02412	BUSH, CAMSHAFT		1						
10	2	27241-300000	PLUG 30		8						
11	2	124060-01050	PLUG, PT1/8		1						
12	2	124160-01910	PLUG, PT1/4		2						
13	2	124160-01910	PLUG, PT1/4		1						
14	2	27241-120000	PLUG, 12		2						
24	2	129150-02931	BEARING, THRUST		2						
27	1	129150-01200	BOLT, HEAD		18						
28	1	129407-01340	GASKET, HEAD		1						
29	1	129001-02931	BEARING, MAIN		5						1
32	1	129150-02871	BEARING, 0.25 US		5						2
35	1	129150-02941	BEARING, THRUST 0.25		1						3

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Fig.19. GEAR HOUSING



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

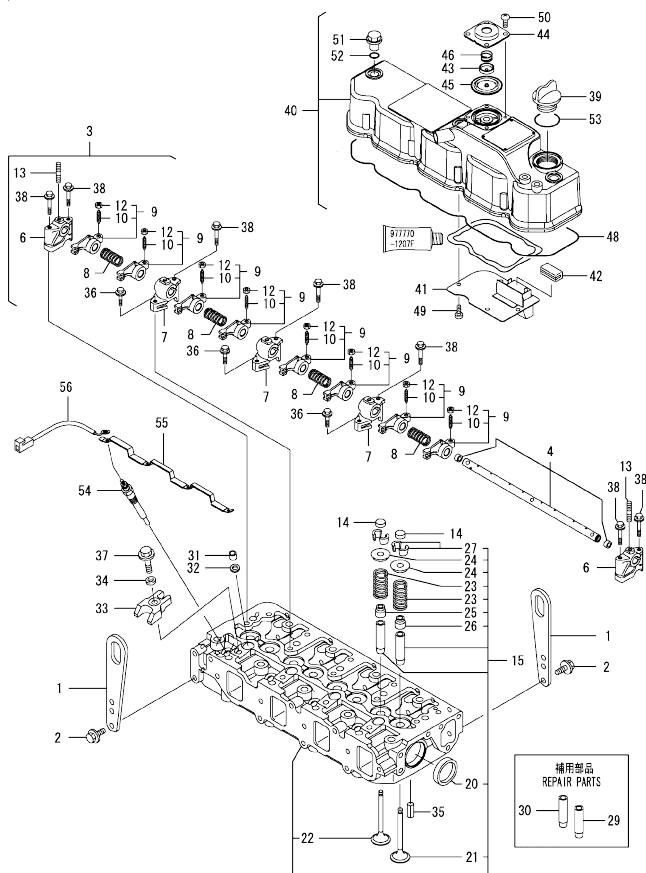
N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.21. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER		2						
2	1	26106-080162	BOLT, M8X 16 PLATED		4						
3	1	129601-11241	SHAFT ASSY, ROCKER		1						
4	2	129601-11251	SHAFT, ROCKER ARM		1						
6	2	119802-11260	SUPPORT, ROCKER ARM		2						
7	2	119802-11270	SUPPORT, ROCKER ARM		3						
8	2	129150-11280	SPRING		4						
9	2	129004-11650	ARM, ROCKER		8						
10	3	129150-11230	SCREW, VALVE ADJUST		8						
12	3	129150-11750	NUT, M8		8						
13	2	26226-080182	STUD, M8X 18		3						
14	1	129150-11370	CAP, VALVE		8						
15	1	129604-11700	HEAD ASSY, CYLINDER		1						
20	2	27241-400000	PLUG, 40		2						
21	2	129005-11100	VALVE, INTAKE		4						
22	2	129100-11112	VALVE, EXHAUST		4						
23	2	129795-11120	SPRING, VALVE		8						
24	2	129795-11180	RETAINER, SPRING		8						
25	2	121400-11340	SEAL, VALVE STEM		4						
26	2	124460-11340	SEAL, VALVE STEM		4						
27	2	27310-080001	COTTER, 8		8						
29	1	120130-11860	GUIDE, VALVE		4						1
30	1	129150-11810	GUIDE, VALVE		4						1
31	1	119802-11870	PROTECTOR, NOZZLE		4						
32	1	119625-11880	SEAT, NOZZLE		4						
33	1	129004-11900	RETAINER, NOZZLE		4						
34	1	120270-54410	WASHER, INJECTOR		4						
35	1	22351-060012	PIN, SPRING 6.0X12		2						
36	1	26106-080252	BOLT, M8X 25 PLATED		3						
37	1	26106-080352	BOLT, M8X 35 PLATED		4						
38	1	26106-080502	BOLT, M8X 50 PLATED		7						
39	1	124160-01751	COVER, FILLER		1						
40	1	129601-11350	BONNET ASSY, HEAD		1						
41	2	129004-03010	PLATE		1						
42	2	129150-03070	BAFFLE, BREATHER		1						
43	2	119802-03110	PLATE		1						
44	2	119802-03121	COVER, DIAPHRAGM		1						
45	2	119802-03130	DIAPHRAGM		1						
46	2	119802-03141	SPRING, DIAPHRAGM		1						
48	2	129601-11310	GASKET, BONNET		1						
49	2	22857-500100	SCREW, 5X10		4						
50	2	22857-500100	SCREW, 5X10		4						
51	1	124160-11360	KNOB		3						
52	1	24311-000120	O-RING, 1AP12.0		3						
53	1	24311-000320	O-RING, 1AP32.0		1						
54	1	129008-77800	PLUG, GLOW		4						
55	1	129604-77821	CONNECTOR, GLOW PLUG		1						
56	1	119803-77830	HARNES, WIRE		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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Fig.22. SUCTION MANIFOLD

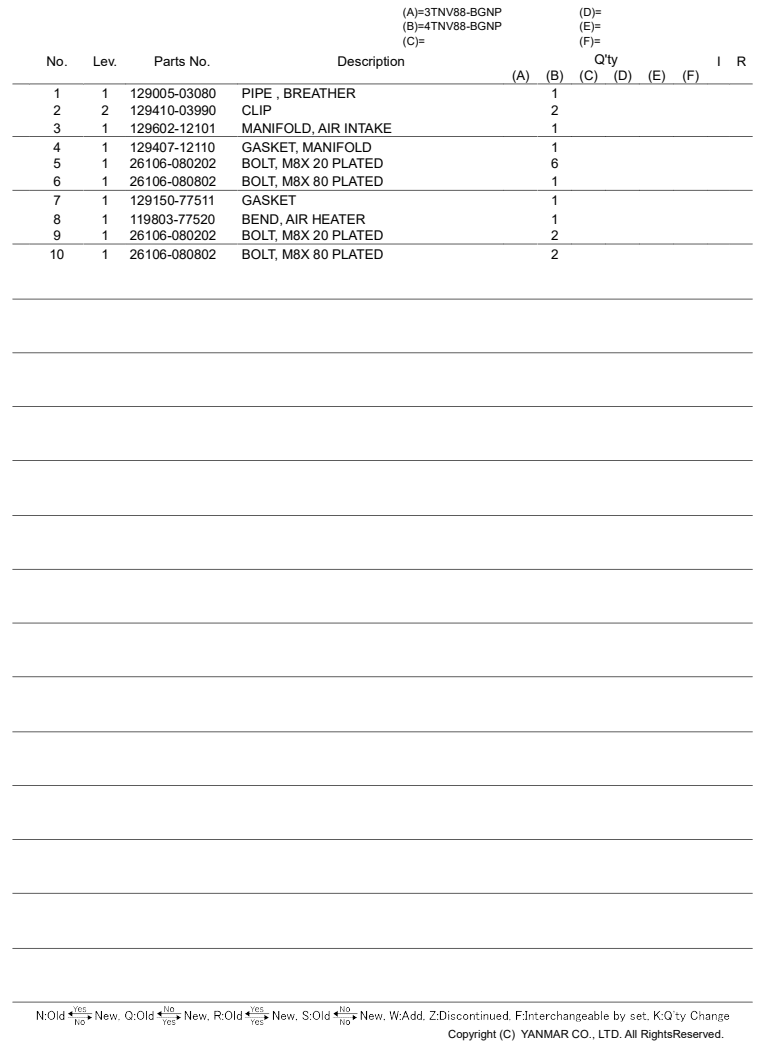
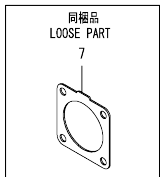
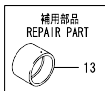


Fig.23. EXHAUST MANIFOLD



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-13101	MANIFOLD, EXHAUST		1						
2	1	129550-13110	GASKET		1						
3	1	123900-13610	STUD, M8X80		2						
4	1	123900-13630	BOLT, M8X80		6						
5	1	119131-18320	STUD, M6X22		4						
6	1	26306-080002	NUT, M8		2						
7	1	129930-13201	GASKET, SILENCER		1						

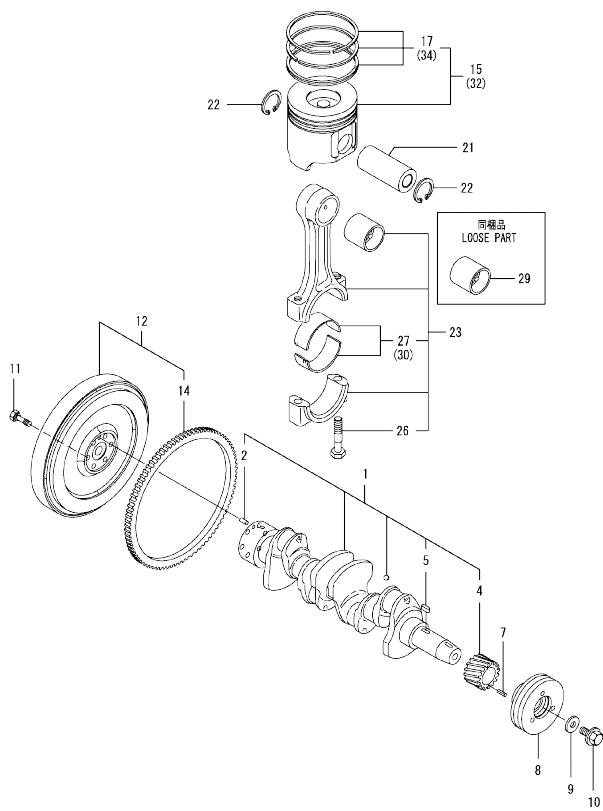
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

[illegible]

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

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Fig.25. CRANKSHAFT & PISTON

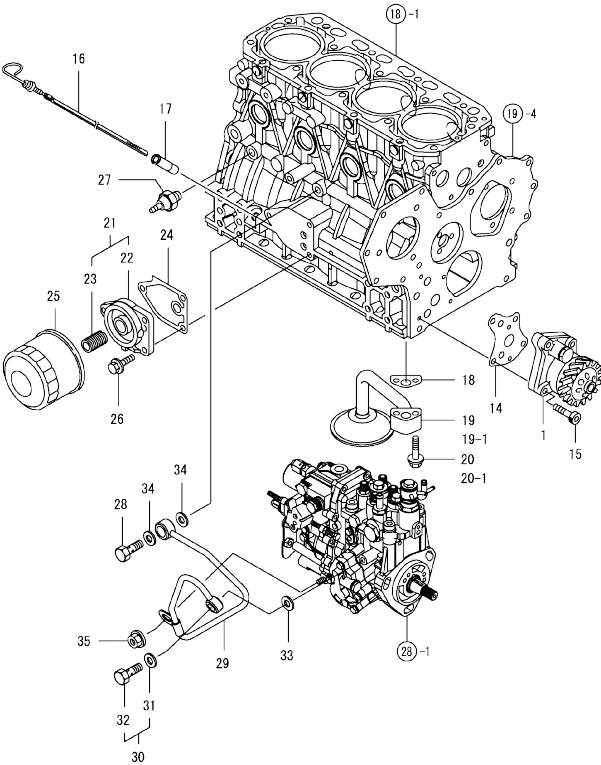


Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129604-21000	CRANKSHAFT ASSY		1						
2	2	129100-01580	PIN, M8X16		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	119802-21660	V-PULLEY, 120		1						
9	1	129795-21661	WASHER		1						
10	1	121850-21680	BOLT		1						
11	1	121111-21501	BOLT, FLYWHEEL		6						
12	1	171420-21580	FLYWHEEL ASSY		1						
14	2	119865-21600	GEAR, RING		1						
15	1	129008-22080	PISTON ASSY		4						
17	2	129005-22500	RING SET, PISTON		4						
21	1	129202-22300	PIN, PISTON D26 L70		4						
22	1	22252-000260	RING, 26		8						
23	1	729402-23100	ROD ASSY, CONNECTING		4						
26	2	121550-23200	BOLT, CONNECTING ROD		8						
27	2	129150-23601	BEARING, CRANK PIN		4						
29	1	129100-23910	BEARING, PISTON PIN		4						1
30	1	129150-23611	BEARING, 0.25 US		4						2
32	1	129008-22900	PISTON ASSY, 0.25 OS		4						3
34	2	129005-22950	RING SET, 0.25 OS		4						3

0CW10-M47800

Fig.26. LUB.OIL SYSTEM

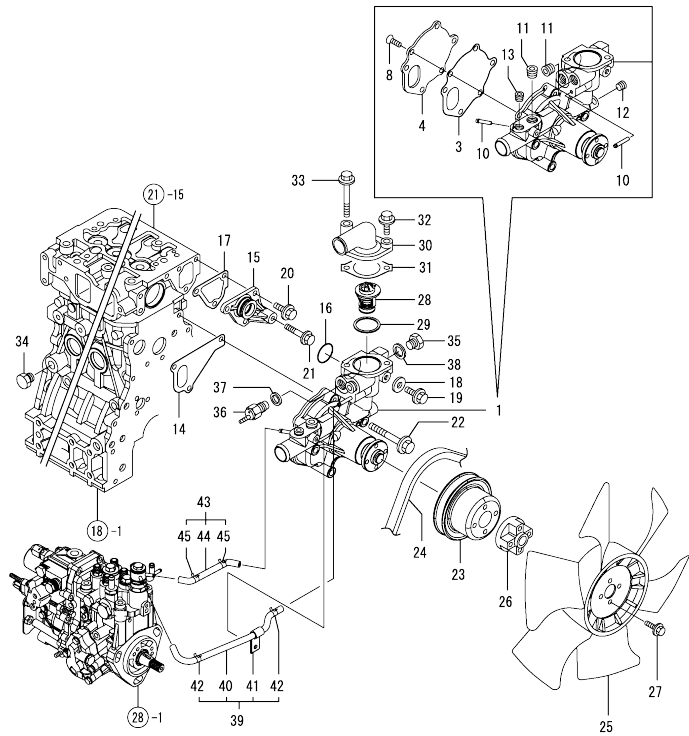


Remarks
(1) REPAIR PART.

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, OIL		1						
17	1	121520-34810	GUIDE, DIPSTICK		1						
18	1	129150-35042	GASKET		1						
19	1	129436-35091	PIPE ASSY, OIL INLET		1						
19-1	1	129436-35070	PIPE ASSY (B=EZZZZZ)		1						S
20	1	26106-080352	BOLT, M8X 35 PLATED		2						
20-1	1	26106-080552	BOLT, M8X 55 PLATED (B=EZZZZZ)		2						S
21	1	119802-35100	BRACKET ASSY, FILTER		1						
22	2	119802-35110	BRACKET, FILTER		1						
23	2	129100-35140	STUD		1						
24	1	129150-35111	GASKET		1						
25	1	129150-35153	FILTER		1						1
26	1	26106-080202	BOLT, M8X 20 PLATED		3						
27	1	114250-39450	SWITCH, 0.5KG		1						
28	1	124160-39140	BOLT, PIPE JOINT M10		1						
29	1	119802-39450	PIPE ASSY, OIL		1						
30	1	129005-59830	BOLT ASSY, JOINT M8		1						
31	2	22190-080002	WASHER, SEAL 6		1						
32	2	23857-030000	BOLT, JOINT 3		1						
33	1	22190-080002	WASHER, SEAL 6		1						
34	1	22190-100002	WASHER, SEAL 10		2						
35	1	26366-060002	NUT, M6		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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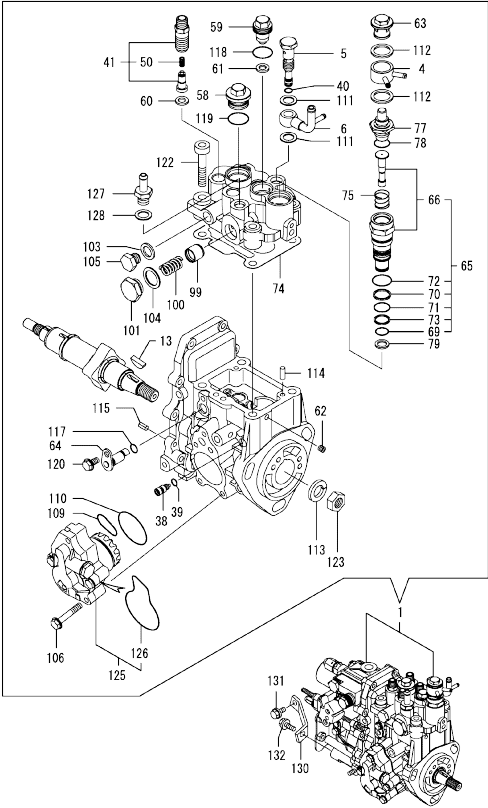
Fig.27. COOLING WATER SYSTEM



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		1						
8	2	121850-42410	SCREW		3						
10	2	119802-49113	JOINT, PIPE		2						
11	2	129916-49740	PLUG, R03		2						
12	2	23876-010000	PLUG, R01		1						
13	2	23876-020000	PLUG, R02		1						
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		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	129155-42350	V-PULLEY		1						
24	1	119831-42290	V-BELT, A37.5		1						
25	1	129612-44700	FAN, COOLING		1						
26	1	121267-44760	SPACER		1						
27	1	26106-060302	BOLT, M6X 30 PLATED		4						
28	1	129155-49801	THERMOSTAT, 71		1						
29	1	129150-49811	GASKET, THERMOSTAT		1						
30	1	124101-49531	COVER, THERMOSTAT		1						
31	1	129795-49551	GASKET		1						
32	1	26106-080252	BOLT, M8X 25 PLATED		1						
33	1	26106-080652	BOLT, M8X 65 PLATED		1						
34	1	171056-49120	PLUG, DRAIN		1						
35	1	121450-42450	PLUG, M16		1						
36	1	121250-44901	SWITCH, 110		1						
37	1	124465-44950	GASKET, 16		1						
38	1	124465-44950	GASKET, 16		1						
39	1	129004-49610	PIPE ASSY, WATER		1						
40	2	129004-49711	PIPE ASSY, WATER		1						
41	2	119802-49730	RETAINER, PIPE		1						
42	2	124722-59050	CLIP, HOSE 9		2						
43	1	129004-49620	PIPE ASSY, WATER		1						
44	2	129004-49721	PIPE ASSY, WATER		1						
45	2	124722-59050	CLIP, HOSE 9		2						

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Fig.28. FUEL INJECTION PUMP

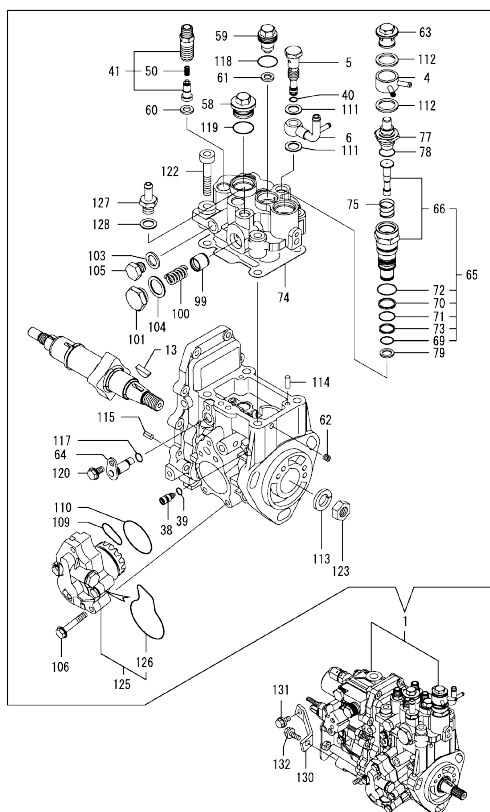


Remarks
(1) GOVERNOR ASSY(FIG.29) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729683-51390	PUMP ASSY, INJECTION		1						1
4	2	158553-51551	JOINT		1						
5	2	158601-51650	JOINT, OVER FLOW		1						
6	2	158552-51670	JOINT, OVER FLOW		1						
13	2	119802-51090	KEY, 4X16		1						
38	2	158600-51270	STOPPER, TAPPET		1						
39	2	158563-51281	O-RING, 4D S6		1						
40	2	158563-51281	O-RING, 4D S6		1						
41	2	129008-51390	VALVE ASSY, DELIVERY		4						
50	3	158563-51330	SPRING, DELIVERY		4						
58	2	158601-51550	PLUG		1						
59	2	119802-51560	PLUG, BARREL		1						
60	2	158552-51571	GASKET		4						
61	2	158552-51571	GASKET		1						
62	2	158557-51570	PLUG		1						
63	2	158601-51570	PLUG		1						
64	2	158552-51580	LIFTER		1						
65	2	119802-51590	TIMER SET		1						
66	3	119802-51600	TIMER ASSY		1						
69	3	158553-51670	O-RING, 1011		1						
70	3	119802-51680	RING, BACK UP		1						
71	3	119802-51690	O-RING		1						
72	3	24356-010200	O-RING, 4D1020		1						
73	3	24372-000150	RING, BACK UP T2P15		1						
74	2	158552-51600	GASKET		1						
75	2	158553-51630	SPRING, TIMER		1						
77	2	158553-51640	ELEMENT		1						
78	2	158553-51660	O-RING, P14		1						
79	2	158553-51680	GASKET		1						
99	2	158601-51770	PISTON		1						
100	2	158552-51781	SPRING		1						
101	2	158601-51790	PLUG		1						
103	2	22190-120002	WASHER, SEAL 12		1						
104	2	22190-180002	WASHER, SEAL 18		1						
105	2	23887-120002	PLUG, 12		1						
106	2	158553-51770	BOLT		4						
109	2	158552-52310	O-RING		1						
110	2	158552-52400	O-RING, 4E S42		1						
111	2	22190-120002	WASHER, SEAL 12		2						
112	2	22190-180002	WASHER, SEAL 18		2						
113	2	22217-140000	WASHER, SPRING 14		1						
114	2	22312-050140	PIN, PARALLEL M5X14		2						
115	2	22351-050010	PIN, SPRING 5.0X10		2						
117	2	24311-000070	O-RING, 1AP7.0		1						
118	2	24356-010180	O-RING, 4D1018		1						
119	2	24356-010200	O-RING, 4D1020		1						
120	2	26106-060102	BOLT, M6X 10 PLATED		1						
122	2	26450-080452	BOLT, M8X 45		4						
123	2	26776-140002	NUT, LOCK M14		1						
125	2	158552-52100	PUMP ASSY, FUEL FEED		1						
126	3	158552-52500	O-RING		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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Fig.28. FUEL INJECTION PUMP



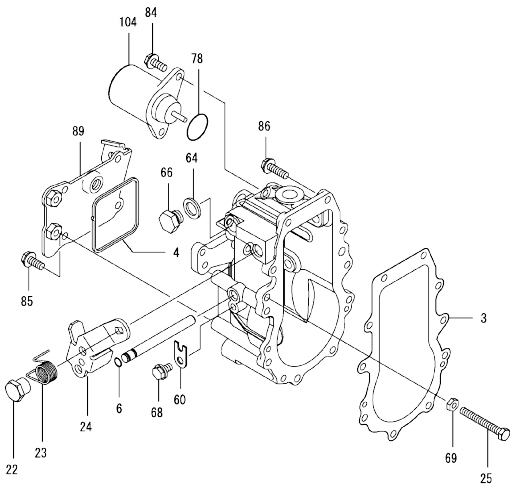
Remarks
(1) GOVERNOR ASSY(FIG.29) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
127	2	119934-59910	JOINT, PIPE		1						
128	2	22190-120002	WASHER, SEAL 12		1						
130	1	129601-51250	RETAINER, PUMP		1						
131	1	26106-080162	BOLT, M8X 16 PLATED		1						
132	1	26106-080202	BOLT, M8X 20 PLATED		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

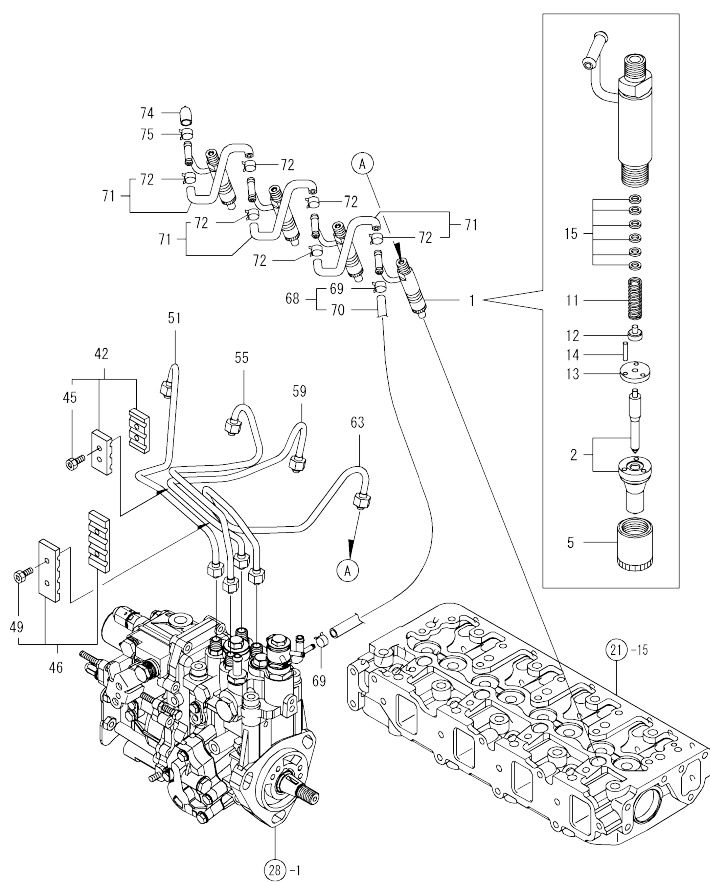
0CW10-M47800

Fig.29. GOVERNOR



Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.28).

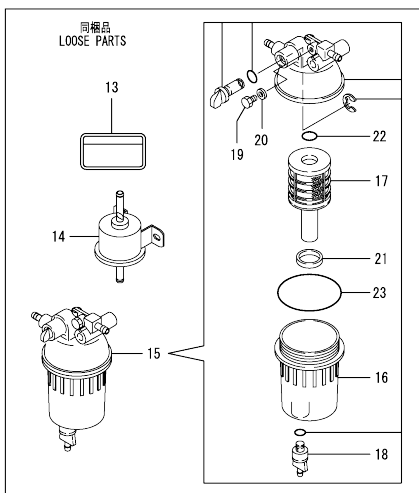
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET		1						
4	2	158553-61070	GASKET		1						
6	2	129155-61280	O-RING, S6		1						
22	2	129255-61410	NUT, LOCK		1						
23	2	119807-61420	SPRING, RETURN		1						
24	2	129246-61441	LEVER, REGULATOR		1						
25	2	129155-61460	BOLT, IDLE		1						
60	2	119660-61901	RETAINER, SHAFT		1						
64	2	22190-120000	WASHER, SEAL 12		1						
66	2	23887-120002	PLUG, 12		1						
68	2	26106-060102	BOLT, M6X 10 PLATED		1						
69	2	26756-060002	NUT, LOCK M6		1						
78	2	158552-61900	O-RING		1						
84	2	26106-060142	BOLT, M6X 14 PLATED		2						
85	2	26106-060142	BOLT, M6X 14 PLATED		4						
86	2	26106-060202	BOLT, M6X 20 PLATED		10						
89	2	129246-61061	COVER, GOVERNOR CASE		1						
104	2	119653-77950	SOLENOID, STOP		1						



				(A)=3TNNV88-BGPN (B)=4TNNV88-BGPN (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729283-53100	VALVE ASSY,INJECTION		4						
2	2	129283-53000	VALVE ASSY,INJECTION		4						
5	2	114250-53080	NUT, NOZZLE D16.95		4						
11	2	114250-53120	SPRING, NOZZLE		4						
12	2	114250-53130	SEAT, SPRING		4						
13	2	114250-53140	PLATE		4						
14	2	114250-53210	PIN		8						
15	2	119803-53400	SHIM SET		4						
42	1	129150-59120	RETAINER, PIPE		1						
45	2	129150-59131	BOLT, M4X14		2						
46	1	129550-59120	RETAINER, PIPE		1						
49	2	129150-59131	BOLT, M4X14		2						
51	1	129601-59810	PIPE ASSY, INJECTION		1						
55	1	129601-59820	PIPE ASSY, INJECTION		1						
59	1	129601-59830	PIPE ASSY, INJECTION		1						
63	1	129601-59840	PIPE ASSY, INJECTION		1						
68	1	119802-59550	PIPE ASSY, RETURN		1						
69	2	124722-59050	CLIP, HOSE 9		2						
70	2	119802-59560	PIPE, FUEL RETURN		1						
71	1	129486-59551	PIPE ASSY, RETURN		3						
72	2	124722-59050	CLIP, HOSE 9		6						
74	1	119593-59581	CAP		1						
75	1	124060-77680	CLIP, HOSE 10		1						

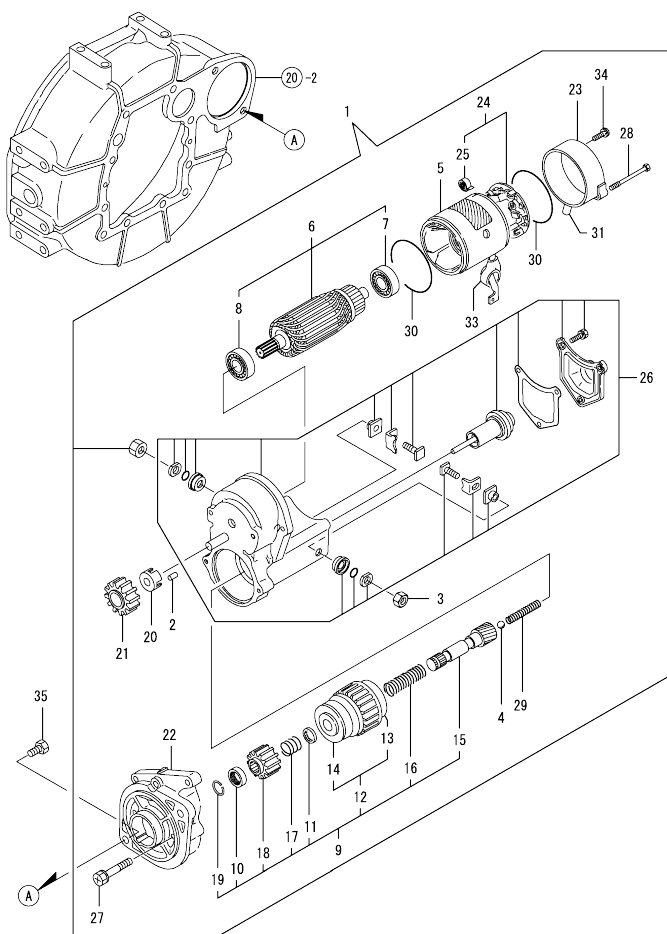
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.31. FUEL LINE



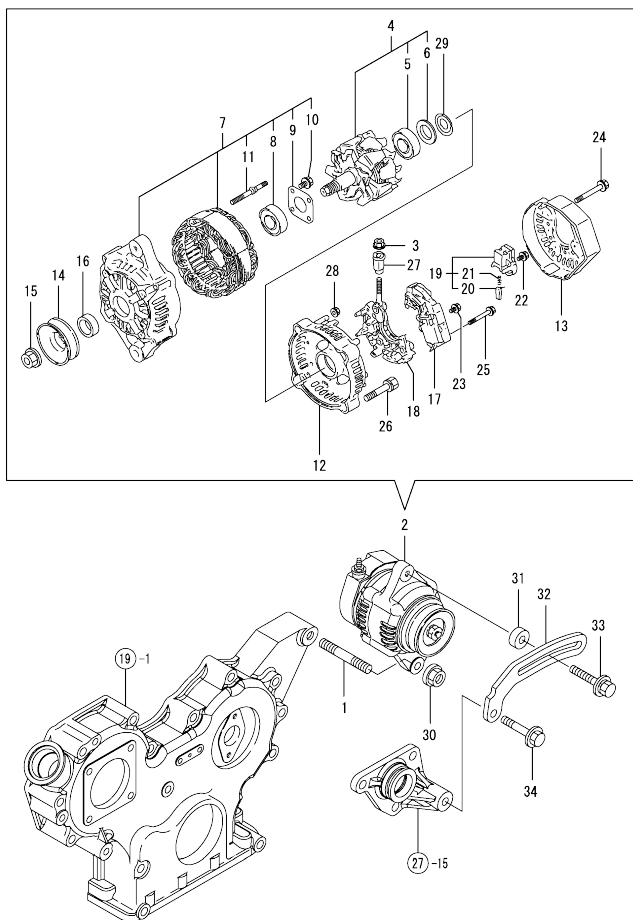
No.	Rev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER		1						
2	1	119802-55801	FILTER, FUEL		1						
3	1	26106-080302	BOLT, M8X 30 PLATED		2						
4	1	129630-59010	PIPE ASSY, FUEL		1						
5	2	124766-59050	CLIP, HOSE 12		2						
6	2	129961-59110	TUBE, CORRUGATED		1						
7	2	105025-59560	PIPE, FUEL		1						
8	1	129956-59010	PIPE ASSY, FUEL		1						
9	2	124766-59050	CLIP, HOSE 12		2						
10	2	129957-59101	TUBE, CORRUGATED		1						
11	2	105225-59511	PIPE, FUEL		1						
12	1	121750-59890	BAND, 140		1						
13	1	114110-07760	LABEL, FUEL CAUTION		1						
14	1	119225-52102	PUMP ASSY, FUEL FEED		1						
15	1	129242-55700	SEPARATOR ASSY		1						
16	2	129242-55720	CUP		1						
17	2	129242-55730	ELEMENT		1						
18	2	129242-55740	PLUG, DRAIN		1						
19	2	129242-55750	VALVE, AIR VENT		1						
20	2	129242-55760	GASKET		1						
21	2	129242-55770	FLOAT		1						
22	2	24311-000160	O-RING, 1AP16.0		1						
23	2	24321-000750	O-RING, 1AG75.0		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:Qty Change



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-77010	STARTER, RA1.4		1						
2	2	X0283060061	ROLLER		5						
3	2	X9490561370	NUT		1						
4	2	X9491200240	BALL		1						
5	2	129407-77210	YOKE ASSY		1						
6	2	129407-77220	ARMATURE ASSY		1						
7	3	129129-77230	BEARING		1						
8	3	129129-77240	BEARING		1						
9	2	129407-77250	STARTER		1						
10	3	X0280210230	NUT		1						
11	3	X0283270140	RETAINER		1						
12	3	129407-77390	CLUTCH ASSY		1						
13	4	129129-77440	BEARING, BALL		1						
14	4	129129-77450	BEARING, BALL		1						
15	3	129129-77400	SHAFT		1						
16	3	129129-77410	SPRING, COIL		1						
17	3	X9491703371	SPRING, COIL		1						
18	3	129129-77420	PINION, STARTER		1						
19	3	129129-77430	RING		1						
20	2	129129-77260	RETAINER		1						
21	2	129129-77270	PINION		1						
22	2	129407-77280	HOUSING		1						
23	2	129407-77290	FRAME		1						
24	2	129407-77300	HOLDER ASSY		1						
25	3	X9491730461	SPRING		4						
26	2	129407-77310	SWITCH ASSY		1						
27	2	129129-77320	BOLT		2						
28	2	129407-77330	BOLT		2						
29	2	129129-77340	SPRING		1						
30	2	129129-77350	O-RING		2						
31	2	129129-77362	COVER		1						
33	2	129129-77380	CAP		1						
34	2	129129-77460	SCREW		2						
35	1	26116-120252	BOLT, M12X 25 PLATED		2						

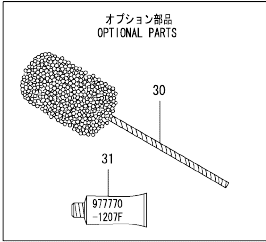
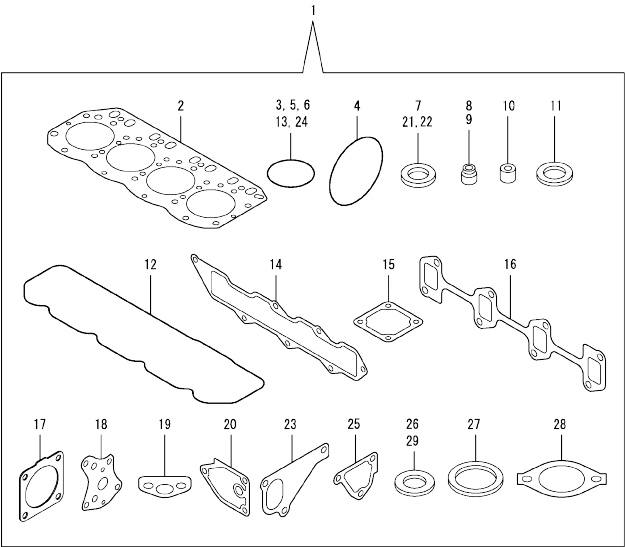
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	STUD		1						
2	1	129423-77200	GENERATOR, 12V-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		1						
7	2	119620-77421	FRAME ASSY, DRIVE		1						
8	3	119620-79200	BEARING, BALL		1						
9	3	119620-79210	PLATE, RETAINER		1						
10	3	119620-79220	SCREW		4						
11	3	119620-79230	STUD		2						
12	2	119620-77440	FRAME ASSY		1						
13	2	129240-79300	COVER		1						
14	2	119620-77461	PULLEY		1						
15	2	119620-77471	NUT		1						
16	2	119620-77490	COLLAR		1						
17	2	129423-77710	REGULATOR ASSY		1						
18	2	119620-79260	HOLDER		1						
19	2	129052-79270	HOLDER, BRUSH		1						
20	3	119620-77480	BRUSH ASSY		2						
21	3	119620-79280	SPRING		2						
22	2	119620-79290	SCREW		6						
23	2	119620-79300	SCREW		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, GENERATOR		1						
32	1	119940-77330	ADJUSTER		1						
33	1	129972-77341	BOLT, ADJUSTER L=50		1						
34	1	26106-080452	BOLT, M8X 45 PLATED		1						

0CW10-M47800

Fig.34. GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-92800	GASKET SET		1						1
2	2	129407-01340	GASKET, HEAD		1						
3	2	119609-32040	O-RING, P16		2						
4	2	121850-51960	O-RING		1						
5	2	24311-000320	O-RING, 1AP32.0		2						
6	2	24341-000240	O-RING, 1AS24.0		1						
7	2	22190-220002	WASHER, SEAL 22		1						
8	2	121400-11340	SEAL, VALVE STEM		4						
9	2	124460-11340	SEAL, VALVE STEM		4						
10	2	119802-11870	PROTECTOR, NOZZLE		4						
11	2	119625-11880	SEAT, NOZZLE		4						
12	2	129601-11310	GASKET, BONNET		1						
13	2	24311-000120	O-RING, 1AP12.0		3						
14	2	129407-12110	GASKET, MANIFOLD		1						
15	2	129150-77511	GASKET		1						
16	2	129550-13110	GASKET		1						
17	2	129930-13201	GASKET, SILENCER		1						
18	2	129150-32020	GASKET, PUMP		1						
19	2	129150-35042	GASKET		1						
20	2	129150-35111	GASKET		1						
21	2	22190-080002	WASHER, SEAL 6		7						
22	2	22190-100002	WASHER, SEAL 10		2						
23	2	129486-42021	GASKET, WATER PUMP		1						
24	2	129486-42140	O-RING, G30		1						
25	2	124395-49840	GASKET		1						
26	2	23414-080000	GASKET, 8X1.0		1						
27	2	129150-49811	GASKET, THERMOSTAT		1						
28	2	129795-49551	GASKET		1						
29	2	124465-44950	GASKET, 16		2						
30	1	129400-92430	HONE		1						1
31	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. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	31	7
105025-59580	14	11
105225-59511	31	11
114110-07760	14	13
	31	13
114250-39450	9	27
	26	27
114250-53080	13	5
	30	5
114250-53120	13	11
	30	11
114250-53130	13	12
	30	12
114250-53140	13	13
	30	13
114250-53210	13	14
	30	14
119131-18320	6	5
	23	5
119225-52102	14	14
	31	14
119593-59581	13	66
	30	74
119609-32040	2	9
	17	3
	19	9
	34	3
119620-01750	3	3
	20	3
119620-77380	16	4
	33	4
119620-77421	16	7
	33	7
119620-77440	16	12
	33	12
119620-77461	16	14
	33	14
119620-77471	16	15
	33	15
119620-77480	16	20
	33	20
119620-77490	16	16
	33	16
119620-79200	16	8
	33	8
119620-79210	16	9
	33	9
119620-79220	16	10
	33	10
119620-79230	16	11

Parts No.	Fig. No.	Ref. No.
119620-79230	33	11
119620-79250	16	6
	33	6
119620-79260	16	18
	33	18
119620-79280	16	21
	33	21
119620-79290	16	22
	33	22
119620-79300	16	23
	33	23
119620-79310	16	24
	33	24
119620-79320	16	25
	33	25
119620-79330	16	26
	33	26
119620-79340	16	27
	33	27
119620-79350	16	28
	33	28
119620-79360	16	29
	33	29
119625-11880	4	32
	17	11
	21	32
	34	11
119640-01640	3	8
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119653-77950	12	104
	29	104
119660-61901	12	60
	29	60
119802-01561	2	5
	19	5
119802-03110	4	43
	21	43
119802-03121	4	44
	21	44
119802-03130	4	45
	21	45
119802-03141	4	46
	21	46
119802-11260	4	6
	21	6
119802-11270	4	7
	21	7
119802-11280	4	8
119802-11870	4	31
	17	10

Parts No.	Fig. No.	Ref. No.
119802-11870	21	31
	34	10
119802-21660	25	8
119802-25071	7	13
	24	13
119802-25101	7	10
	24	10
119802-25901	7	16
	24	16
119802-35100	9	21
	26	21
119802-35110	9	22
	26	22
119802-39450	9	29
	26	29
119802-49113	10	10
	27	10
119802-49730	10	41
	27	41
119802-51090	11	13
	28	13
119802-51250	11	130
119802-51560	11	59
	28	59
119802-51590	11	65
	28	65
119802-51600	11	66
	28	66
119802-51680	11	70
	28	70
119802-51690	11	71
	28	71
119802-55801	14	2
	31	2
119802-59550	13	60
	30	68
119802-59560	13	62
	30	70
119803-01520	2	4
	19	4
119803-21200	8	4
	25	4
119803-25050	7	9
	24	9
119803-53400	13	15
	30	15
119803-77520	5	8
	22	8
119803-77830	4	56
	21	56

Parts No.	Fig. No.	Ref. No.
119807-61420	12	23
	29	23
119831-42290	10	24
	27	24
119865-21600	8	14
	25	14
119934-01800	2	3
	19	3
119934-59910	11	127
	28	127
119940-77270	16	31
	33	31
119940-77330	16	32
	33	32
120130-11860	4	29
	21	29
120270-54410	4	34
	21	34
121023-01551	2	19
	19	19
121111-21501	8	11
	25	11
121250-44901	10	36
	27	36
121267-44760	10	26
	27	26
121400-11340	4	25
	17	8
	21	25
	34	8
121450-42450	10	35
	27	35
121520-34810	9	17
	26	17
121550-23200	8	26
	25	26
121750-59890	14	12
	31	12
121850-21680	8	10
	25	10
121850-42410	10	8
	27	8
121850-51960	2	10
	17	4
	19	10
	34	4
123501-79240	16	5
	33	5
123900-13610	6	3
	23	3

Parts No. Index

Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.
123900-13630	6	4	129001-01340	1	28	129005-59830	9	30	129129-77270	15	21
	23	4		17	2		26	30		32	21
124060-01050	1	11	129001-02931	1	29	129008-11700	4	15	129129-77280	15	22
	18	11		18	29	129008-21000	8	1	129129-77290	15	23
124060-77680	13	67	129001-12110	5	4	129008-22080	8	15	129129-77300	15	24
	30	75		17	14		25	15	129129-77310	15	26
124101-49531	10	30	129001-32001	9	1	129008-22900	8	32	129129-77320	15	27
	27	30	129004-03010	4	41		25	32		32	27
124160-01751	2	6		21	41	129008-51390	11	41	129129-77330	15	28
	4	39	129004-11241	4	3		28	41	129129-77340	15	29
	19	6	129004-11251	4	4	129008-77800	4	54		32	29
	21	39	129004-11310	4	48		21	54	129129-77350	15	30
124160-01910	1	12		17	12	129008-77820	4	55		32	30
		13	129004-11350	4	40	129044-59010	14	4	129129-77362	15	31
	18	12	129004-11650	4	10	129044-59100	14	6		32	31
		13		21	9	129044-59510	14	7	129129-77380	15	33
124160-11360	4	51	129004-11900	4	33	129052-79270	16	19		32	33
	21	51		21	33		33	19	129129-77390	15	13
124160-39140	9	28	129004-13200	6	7	129100-01580	3	1	129129-77400	15	16
	26	28		17	17			14		32	15
124240-01871	2	7	129004-14580	7	3		8	2	129129-77410	15	17
	19	7	129004-34802	9	16		20	1		32	16
124395-49840	10	17		26	16			14	129129-77420	15	18
	17	25	129004-42001	10	1		25	2		32	18
	27	17		27	1	129100-01640	3	15	129129-77430	15	19
	34	25	129004-42040	10	15		20	15		32	19
124460-11340	4	26		27	15	129100-01730	3	6	129129-77440	32	13
	17	9	129004-49610	10	39	129100-01760	3	7	129129-77450	32	14
	21	26		27	39	129100-11112	4	22	129129-77460	15	34
	34	9	129004-49620	10	43		21	22		32	34
124465-44950	10	37		27	43	129100-13110	6	1	129150-01200	1	27
		38	129004-49711	10	40	129100-23910	8	29		18	27
	17	29		27	40		25	29	129150-02020	1	6
	27	37	129004-49721	10	44	129100-35140	9	23		18	6
		38		27	44		26	23	129150-02450	7	4
	34	29	129004-55612	14	1	129100-35301	9	19		24	4
124722-59050	10	42		31	1	129100-42051	10	3	129150-02871	1	32
		45	129004-59811	13	47		27	3		18	32
	13	61	129004-59821	13	51	129100-42121	10	4	129150-02931	1	24
		64	129004-59831	13	55		27	4		18	24
	27	42	129005-03080	5	1	129129-77010	15	1	129150-02941	1	35
		45		22	1	129129-77210	15	5		18	35
	30	69	129005-11100	4	21	129129-77220	15	6	129150-03070	4	42
		72		21	21	129129-77230	15	7		21	42
124766-59050	14	5	129005-12101	5	3		32	7	129150-11230	4	11
		9	129005-21650	8	8	129129-77240	15	8		21	10
	31	5	129005-22500	8	17		32	8	129150-11280	4	9
		9		25	17	129129-77250	15	9		21	8
129001-01250	1	4	129005-22950	8	34	129129-77260	15	20	129150-11370	4	14
	18	4		25	34		32	20		21	14

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129150-11750	4	13
	21	12
129150-11810	4	30
	21	30
129150-13110	6	2
	17	16
129150-14101	7	6
	24	6
129150-14200	7	1
	24	1
129150-14400	7	2
	24	2
129150-23601	8	27
	25	27
129150-23611	8	30
	25	30
129150-25301	7	15
	24	15
129150-32020	9	14
	17	18
	26	14
	34	18
129150-35042	9	18
	17	19
	26	18
	34	19
129150-35111	9	24
	17	20
	26	24
	34	20
129150-35153	9	25
	26	25
129150-49811	10	29
	17	27
	27	29
	34	27
129150-59120	13	42
	30	42
129150-59131	13	45
	30	45
		49
129150-77511	5	7
	17	15
	22	7
	34	15
129155-42350	10	23
	27	23
129155-49801	10	28
	27	28
129155-51280	12	6

Parts No.	Fig. No.	Ref. No.
129155-51280	29	6
129155-61460	12	25
	29	25
129202-22300	8	21
	25	21
129240-79300	16	13
	33	13
129242-55700	14	15
	31	15
129242-55720	14	16
	31	16
129242-55730	14	17
	31	17
129242-55740	14	18
	31	18
129242-55750	14	19
	31	19
129242-55760	14	20
	31	20
129242-55770	14	21
	31	21
129246-61061	12	89
	29	89
129246-61441	12	24
	29	24
129255-61410	12	22
	29	22
129283-53000	13	2
	30	2
129400-01730	20	6
129400-01770	20	7
129400-13101	23	1
129400-92430	17	30
	34	30
129407-01340	18	28
	34	2
129407-12110	22	4
	34	14
129407-32000	26	1
129407-77010	32	1
129407-77210	32	5
129407-77220	32	6
129407-77250	32	9
129407-77280	32	22
129407-77290	32	23
129407-77300	32	24
129407-77310	32	26
129407-77330	32	28
129407-77390	32	12
129410-03990	5	2

Parts No.	Fig. No.	Ref. No.
129410-03990	22	2
129423-77200	16	2
	33	2
129423-77710	16	17
	33	17
129436-35070	26	19 -1
129436-35091	26	19
129486-01670	3	18
	20	18
129486-42021	10	14
	17	23
	27	14
	34	23
129486-42140	10	16
	17	24
	27	16
	34	24
129486-59551	13	63
	30	71
129550-13110	23	2
	34	16
129550-59120	30	46
129601-11241	21	3
129601-11251	21	4
129601-11310	21	48
	34	12
129601-11350	21	40
129601-51250	28	130
129601-59810	30	51
129601-59820	30	55
129601-59830	30	59
129601-59840	30	63
129602-12101	22	3
129604-11700	21	15
129604-21000	25	1
129604-77821	21	55
129612-01600	3	2
	20	2
129612-44700	10	25
	27	25
129630-59010	31	4
129688-01780	20	7 -1
129795-01780	3	17
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129795-01900	16	1
	33	1
129795-01950	2	8
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129795-02412	1	9
	18	9

Parts No.	Fig. No.	Ref. No.
129795-11120	4	23
	21	23
129795-11180	4	24
	21	24
129795-21661	8	9
	25	9
129795-49551	10	31
	17	28
	27	31
	34	28
129900-07900	4	1
	21	1
129916-49740	10	11
	27	11
129930-13201	23	7
	34	17
129950-59311	14	8
129956-59010	31	8
129957-59101	31	10
129961-59110	14	10
	31	6
129972-77341	16	33
	33	33
158552-51151	7	17
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158552-51571	11	60
		61
	28	60
		61
158552-51580	11	64
	28	64
158552-51600	11	74
	28	74
158552-51670	11	6
	28	6
158552-51781	11	100
	28	100
158552-52100	11	125
	28	125
158552-52310	11	109
	28	109
158552-52400	11	110
	28	110
158552-52500	11	126
	28	126
158552-61900	12	78
	29	78
158553-51551	11	4
	28	4
158553-51630	11	75

Parts No. Index

Parts No.	Fig. No.	Ref. No.
158553-51630	28	75
158553-51640	11	77
	28	77
158553-51660	11	78
	28	78
158553-51670	11	69
	28	69
158553-51680	11	79
	28	79
158553-51770	11	106
	28	106
158553-61050	12	3
	29	3
158553-61070	12	4
	29	4
158557-51570	11	62
	28	62
158563-51281	11	39
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	28	39
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158563-51330	11	50
	28	50
158600-51270	11	38
	28	38
158601-51550	11	58
	28	58
158601-51570	11	63
	28	63
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158601-51770	11	99
	28	99
158601-51790	11	101
	28	101
171051-01921	1	5
	18	5
171056-49120	10	34
	27	34
171340-21580	8	12
171420-21580	25	12
22190-080002	2	11
	9	31
		33
	17	21
	19	11
	26	31
		33
	34	21
22190-100002	9	34

Parts No.	Fig. No.	Ref. No.
22190-100002	17	22
	26	34
	34	22
22190-120000	12	64
	29	64
22190-120002	11	103
		111
		128
	28	103
		111
		128
22190-180002	11	104
		112
	28	104
		112
22190-220002	3	10
	17	7
	20	10
	34	7
22217-140000	7	18
	11	113
	24	18
	28	113
22252-000260	8	22
	25	22
22312-050140	11	114
	28	114
22351-030010	8	7
	25	7
22351-050010	11	115
	28	115
22351-060012	4	35
	21	35
22512-070140	7	7
	8	5
	24	7
	25	5
22857-500100	4	49
		50
	21	49
		50
23414-080000	10	18
	17	26
	27	18
	34	26
23857-030000	9	32
	26	32
23876-010000	10	12
	27	12
23876-020000	10	13

Parts No.	Fig. No.	Ref. No.
23876-020000	27	13
23887-120002	11	105
	12	66
	28	105
	29	66
24311-000070	11	117
	28	117
24311-000120	4	52
	17	13
	21	52
	34	13
24311-000160	14	22
	31	22
24311-000320	2	12
	4	53
	17	5
	19	12
	21	53
	34	5
24321-000750	14	23
	31	23
24341-000240	2	20
	17	6
	19	20
	34	6
24356-010180	11	118
	28	118
24356-010200	11	72
		119
	28	72
		119
24372-000150	11	73
	28	73
26106-060102	11	120
	12	68
	28	120
	29	68
26106-060142	12	84
		85
	29	84
		85
26106-060162	2	21
	19	21
26106-060202	12	86
	29	86
26106-060302	10	27
	27	27
26106-080122	10	19
	27	19
26106-080142	7	8

Parts No.	Fig. No.	Ref. No.
26106-080142	24	8
26106-080162	2	13
		14
	3	11
	4	2
	10	20
	11	131
	19	13
		14
	20	11
	21	2
	27	20
	28	131
26106-080202	5	5
		9
	9	26
	11	132
	22	5
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	26	26
	28	132
26106-080252	3	12
	4	36
	10	32
	20	12
	21	36
	27	32
26106-080302	2	15
	14	3
	19	15
	31	3
26106-080352	3	19
	4	37
	9	20
	20	19
	21	37
	26	20
26106-080402	7	14
	24	14
26106-080452	3	13
		13 -1
	10	21
	16	34
	20	13
		13 -1
	27	21
	33	34
26106-080502	3	20
	4	38
	20	20

Parts No. Index

Parts No.	Fig. No.	Ref. No.
26106-080502	21	38
26106-080552	2	16
	19	16
	26	20
26106-080602	10	22
	27	22
26106-080652	10	33
	27	33
26106-080802	5	6
		10
	22	6
		10
26106-080852	2	17
	19	17
26116-120252	15	35
	32	35
26206-100252	3	4
	20	4
26206-100302	3	5
	20	5
26226-080182	21	13
26306-080002	2	18
	6	6
	19	18
	23	6
26306-100002	16	30
	33	30
26366-060002	9	35
	26	35
26450-060252	9	15
	26	15
26450-080452	11	122
	28	122
26756-060002	12	69
	29	69
26776-140002	7	19
	11	123
	24	19
	28	123
27241-120000	1	14
	18	14
27241-300000	1	10
	18	10
27241-400000	4	20
	21	20
27310-080001	4	27
	21	27
719803-01500	2	1
	19	1
729005-01560	1	1

Parts No.	Fig. No.	Ref. No.
729005-92750	17	1
729283-51390	11	1
729283-53100	13	1
	30	1
729402-23100	8	23
	25	23
729601-14580	24	3
729602-01560	18	1
729602-92800	34	1
729683-51390	28	1
977770-1207F	17	31
	34	31
X0280210230	15	10
	32	10
X0283060061	15	2
	32	2
X0283270140	15	11
	32	11
X9490561001	16	3
	33	3
X9490561370	15	3
	32	3
X9491200240	15	4
	32	4
X9491703371	15	12
	32	17
X9491730461	15	25
	32	25

Parts No.	Fig. No.	Ref. No.
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