

0CD50-M03310EN

P R E F A C E

This parts catalog is the 1st edition of 3TNV82A-BSHY for HUAYANG.

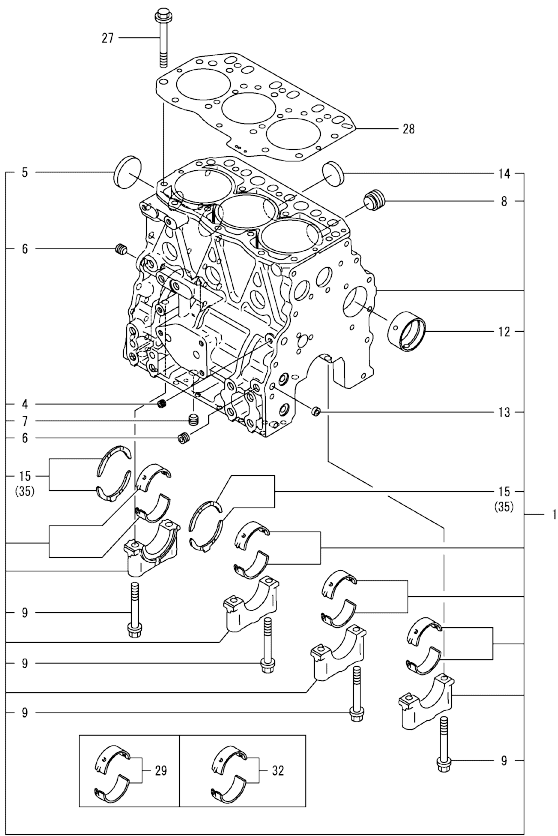
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Contents

0CD50-M03310

Fig. No.	Fig. Name	Fig. No.	Fig. Name
ENGINE			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
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 PIPE		
15.	STARTER MOTOR		
16.	GENERATOR		
17.	ACCESSORY		

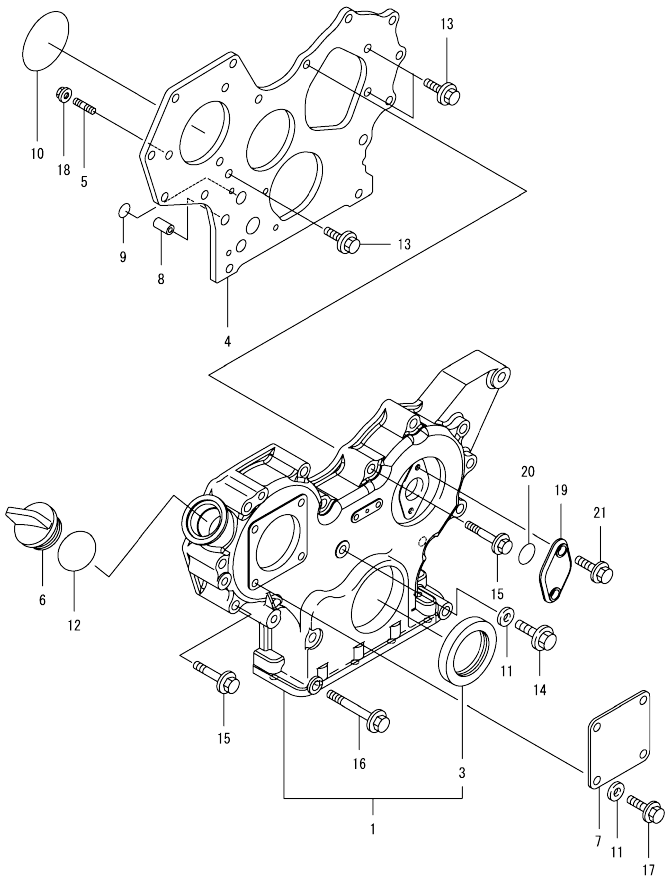
Fig.1. CYLINDER BLOCK



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	719802-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, DISH TYPE 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	119620-02020	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							
15	2	119717-02930	BEARING ASSY, THRUST	2							
27	1	119810-01200	BOLT, CYLINDER HEAD	14							
28	1	119812-01330	GASKET, HEAD	1							
29	1	719810-02981	BEARING ASSY, MAIN	4							1
32	1	119810-02871	BEARING ASSY, MAIN	4							2
35	1	119810-02941	BEARING, THRUST 0.25	2							3

Fig.2. GEAR HOUSING

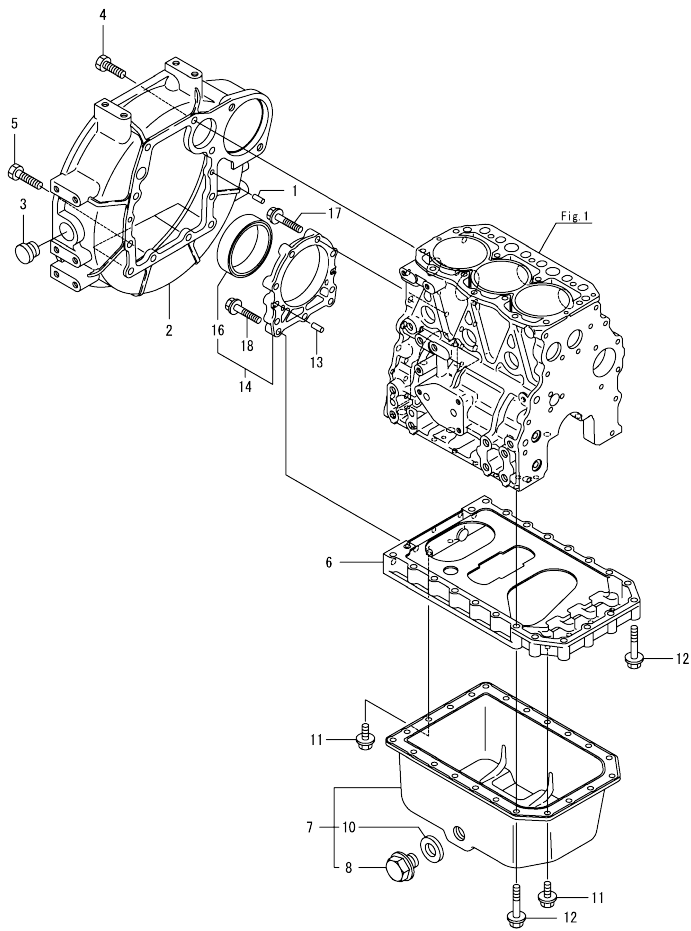


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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719803-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	BOLT, STUD M8X25	3							
6	1	124160-01751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

Fig.3. FLYWHEEL HOUSING & OIL SUMP

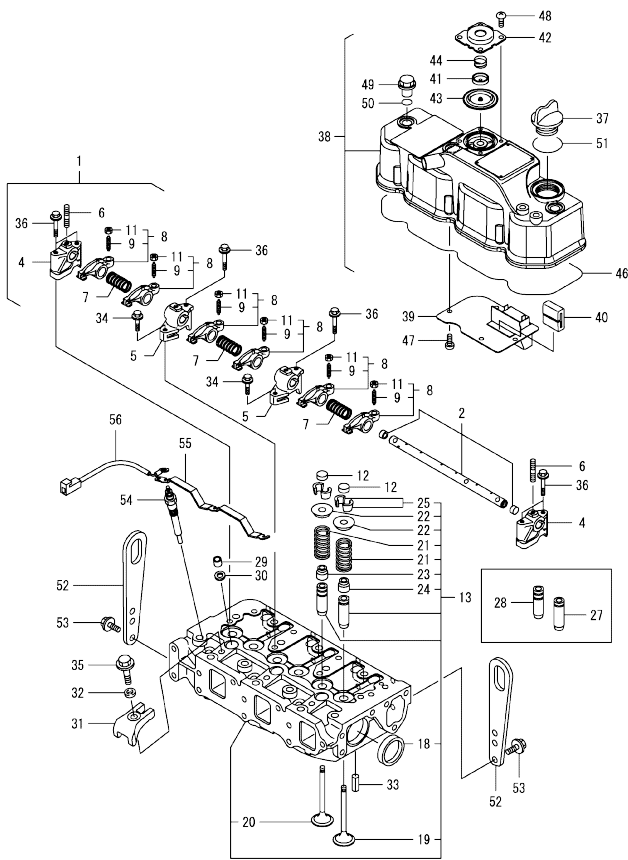


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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	119810-01730	SPACER, OIL-PAN	1							
7	1	119823-01770	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	6							
12	1	26106-080452	BOLT, M8X 45 PLATED	22							
13	1	129100-01580	PIN, PARALLEL 8X16	2							
14	1	129648-01600	CASE ASSY, OIL SEAL	1							
16	2	129648-01780	SEAL, OIL	1							
17	1	129486-01670	BOLT, M8X30	6							
18	1	26106-080352	BOLT, M8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET



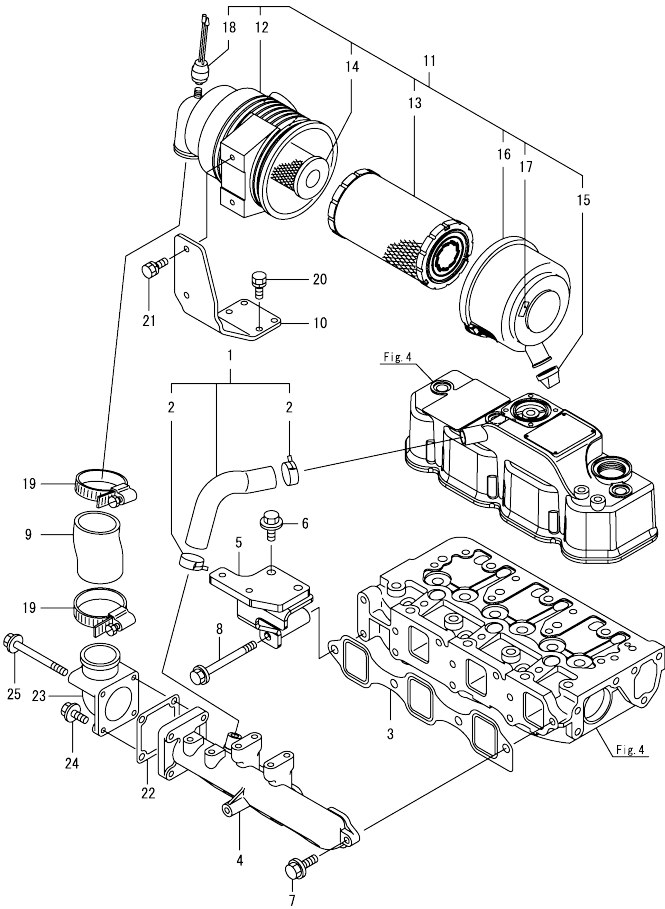
Remarks
(1)Spare parts.

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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-11241	SHAFT ASSY, ROCKER	1							
2	2	119802-11251	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, ROCKER	3							
8	2	119802-11650	ARM ASSY, ROCKER	6							
9	3	129150-11230	SCREW, VALVE ADJUST	6							
11	3	129150-11750	NUT, M8	6							
12	1	104211-11370	CAP, VALVE	6							
13	1	119803-11700	HEAD ASSY, CYLINDER	1							
18	2	27241-400000	PLUG, 40	2							
19	2	119802-11100	VALVE, SUCTION	3							
20	2	119802-11110	VALVE, EXHAUST	3							
21	2	119810-11120	SPRING, VALVE	6							
22	2	104211-11180	RETAINER, SPRING	6							
23	2	119803-11340	SEAL, VALVE STEM	3							
24	2	124160-11340	SEAL, VALVE STEM	3							
25	2	27310-070001	COTTER, 7	6							
27	1	124060-11800	GUIDE, INTAKE VALVE	3							1
28	1	119802-11810	GUIDE, VALVE	3							1
29	1	119802-11870	PROTECTOR, NOZZLE	3							
30	1	119625-11880	SEAT, NOZZLE	3							
31	1	119802-11900	RETAINER, NOZZLE	3							
32	1	120270-54410	WASHER, INJECTOR	3							
33	1	22351-060012	PIN, SPRING 6.0X12	2							
34	1	26106-080252	BOLT, M8X 25 PLATED	2							
35	1	26106-080452	BOLT, M8X 45 PLATED	3							
36	1	26106-080502	BOLT, M8X 50 PLATED	6							
37	1	124160-01751	CAP, FILLER	1							
38	1	119802-11350	BONNET ASSY, HEAD	1							
39	2	119802-03010	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							
46	2	119802-11310	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	129008-77800	PLUG, GLOW	3							
55	1	119803-77821	CONNECTOR, GLOW PLUG	1							
56	1	119803-77830	HARNES, WIRE	1							

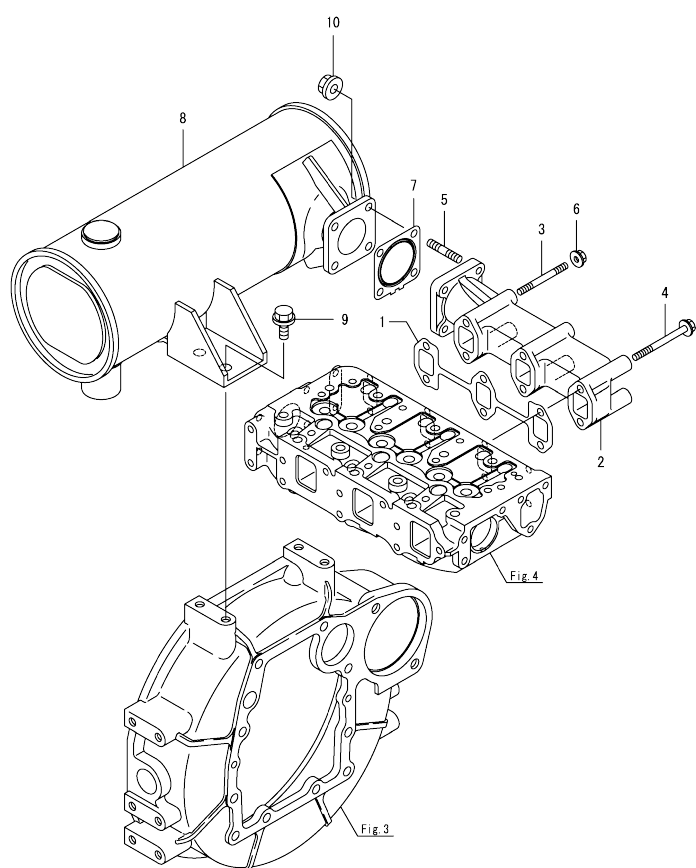
Fig.5. SUCTION MANIFOLD & AIR CLEANER



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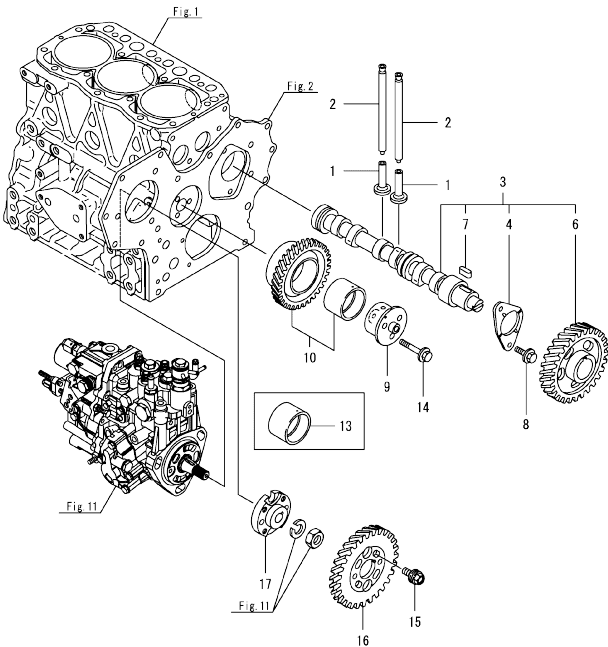
(D)=
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-03090	HOSE ASSY, BREATHER	1							
2	2	129410-03990	CLAMP, HOSE 21.5	2							
3	1	119810-12112	GASKET, MANIFOLD	1							
4	1	119802-12130	MANIFOLD, AIR INTAKE	1							
5	1	119935-55620	BRACKET, FILTER	1							
6	1	26106-080252	BOLT, M8X 25 PLATED	2							
7	1	26106-080252	BOLT, M8X 25 PLATED	3							
8	1	26106-080802	BOLT, M8X 80 PLATED	1							
9	1	119910-12210	HOSE, AIR INTAKE	1							
10	1	119802-12560	BRACKET, CLEANER	1							
11	1	119910-12610	AIR CLEANER ASSY	1							
12	2	119910-12510	BODY ASSY, CLEANER	1							
13	2	119808-12520	ELEMENT, OUTER	1							
14	2	129051-12530	ELEMENT, INNER	1							
15	2	119808-12540	VALVE, UNLOAD	1							
16	2	119866-12541	COVER ASSY	1							
17	2	129612-12650	LABEL, MARKING	1							
18	2	119140-12680	INDICATOR, CLEANER	1							
19	1	23000-060000	CLAMP, 60	2							
20	1	26013-080222	BOLT, M8X 22	4							
21	1	26013-080222	BOLT, M8X 22	2							
22	1	129150-77511	GASKET, AIR HEATER	1							
23	1	119803-77520	BEND, AIR HEATER	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	2							
25	1	26106-080802	BOLT, M8X 80 PLATED	2							



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Fig.7. CAMSHAFT & DRIVING GEAR



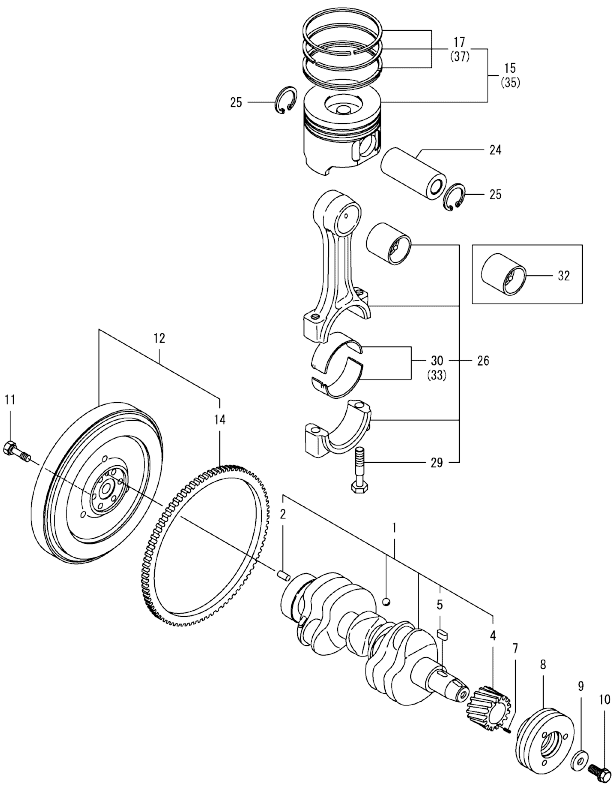
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	PUSH-ROD	6							
3	1	119802-14590	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	119803-25050	SHAFT, IDLE	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	119802-25071	BUSH, IDLE GEAR	1							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	158552-51151	FLANGE	1							

Remarks
(1)Spare parts.

Fig.8. CRANKSHAFT & PISTON



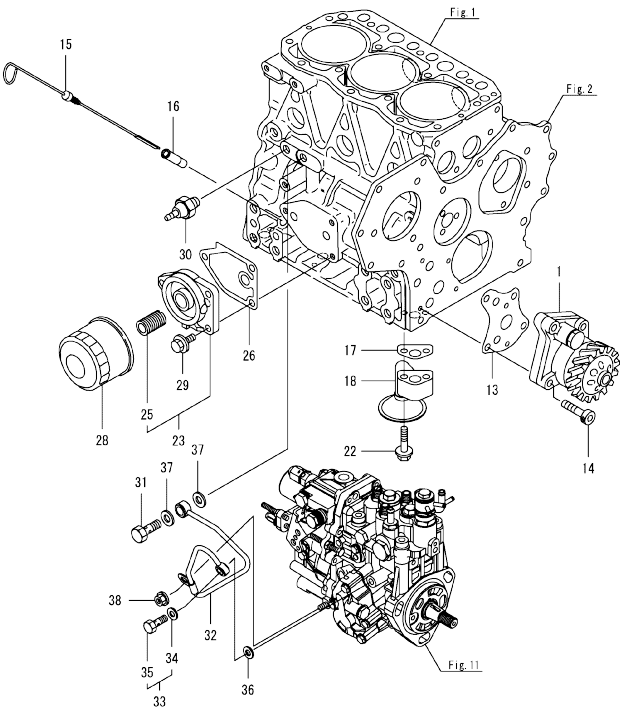
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

(A)=3TNV82A-BSHY
(B)=
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119803-21000	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	119802-21650	V-PULLEY, CRANK 110	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129489-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING Z=116	1							
15	1	119803-22080	PISTON ASSY	3							
17	2	119802-22500	RING SET, PISTON	3							
24	1	119813-22300	PIN, PISTON	3							
25	1	129792-22400	CIRCLIP, 23	6							
26	1	719810-23100	ROD ASSY, CONNECTING	3							
29	2	119810-23200	BOLT, CONNECTING ROD	6							
30	2	119810-23601	BEARING, CRANK PIN	3							
32	1	119810-23910	BEARING, PISTON PIN	3							1
33	1	119810-23611	BEARING, 0.25 US	3							2
35	1	719803-22900	PISTON ASSY, 0.25 OS	3							3
37	2	119802-22950	RING SET, 0.25 OS	3							3

Fig.9. LUB. OIL SYSTEM



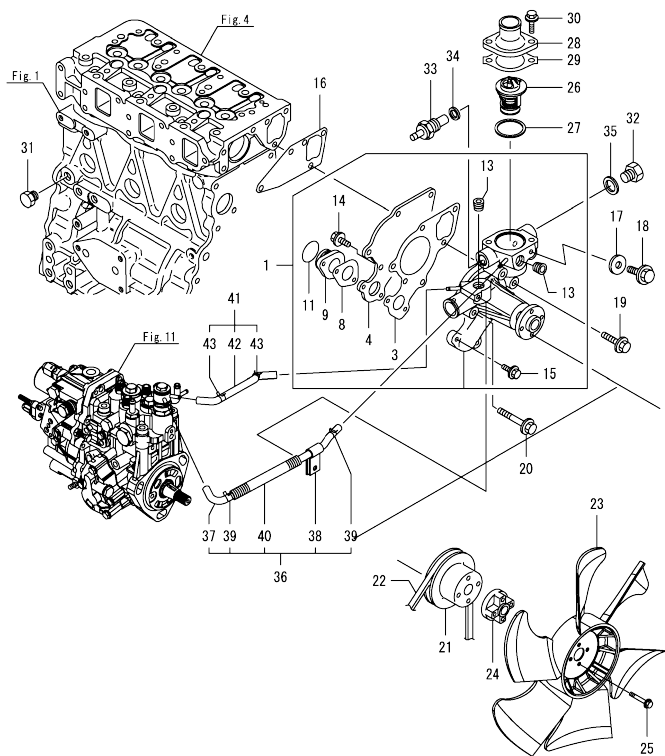
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32002	PUMP ASSY, OIL	1							
13	1	129150-32020	GASKET, PUMP	1							
14	1	26450-060252	BOLT, M6X 25	4							
15	1	119802-34802	DIPSTICK	1							
16	1	121520-34810	GUIDE, DIPSTICK	1							
17	1	129150-35042	GASKET	1							
18	1	119810-35300	PIPE ASSY, OIL INLET	1							
22	1	26106-080352	BOLT, M8X 35 PLATED	2							
23	1	119802-35100	BRACKET ASSY, FILTER	1							
25	2	129100-35140	BOLT, STUD	1							
26	1	129150-35111	GASKET	1							
28	1	119005-35151	FILTER, D80X100	1							1
29	1	26106-080202	BOLT, M8X 20 PLATED	3							
30	1	114250-39450	SWITCH, HYDRAULIC	1							
31	1	124160-39140	BOLT, PIPE JOINT M10	1							
32	1	119802-39450	PIPE ASSY, OIL	1							
33	1	129005-59830	BOLT ASSY, JOINT M8	1							
34	2	22190-080002	WASHER, SEAL 8	1							
35	2	23857-030000	BOLT, JOINT 3	1							
36	1	22190-080002	WASHER, SEAL 8	1							
37	1	22190-100002	WASHER, SEAL 10	2							
38	1	26366-060002	NUT, M6	1							

Remarks
(1)Spare parts.

Fig.10. COOLING WATER SYSTEM

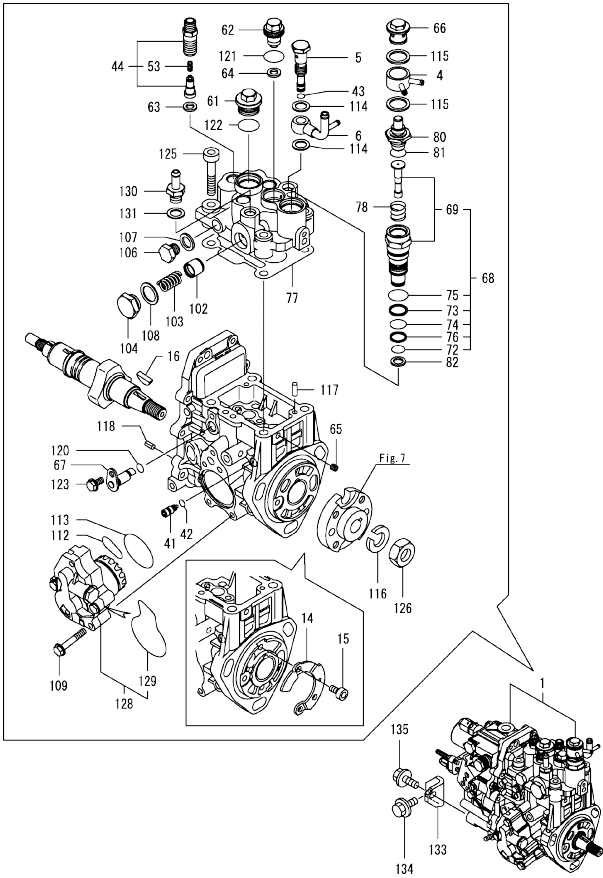


(A)=3TNV82A-BSHY
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-42001	PUMP ASSY, WATER	1							
3	2	119810-42051	GASKET, WATER PUMP	1							
4	2	119810-42120	PLATE, PUMP	1							
8	2	119810-42281	GASKET, WATER PUMP	1							
9	2	119810-42290	PIPE, PUMP	1							
11	2	129054-42320	O-RING	1							
13	2	23876-030000	PLUG, R03	2							
14	2	26106-060142	BOLT, M6X 14 PLATED	2							
15	2	26106-060202	BOLT, M6X 20 PLATED	2							
16	1	129486-42050	GASKET, WATER PUMP	1							
17	1	23414-080000	GASKET, 8X1.0	1							
18	1	26106-080122	BOLT, M8X 12 PLATED	1							
19	1	26106-080352	BOLT, M8X 35 PLATED	1							
20	1	26106-080552	BOLT, M8X 55 PLATED	3							
21	1	129155-42350	V-PULLEY, C.W.PUMP	1							
22	1	129044-42290	V-BELT, A38.5	1							
23	1	121267-44741	FAN, COOLING D=360	1							
24	1	171353-44760	SPACER, FAN	1							
25	1	26106-060402	BOLT, M6X 40 PLATED	4							
26	1	129155-49801	THERMOSTAT, 71C	1							
27	1	129150-49811	GASKET, THERMOSTAT	1							
28	1	129350-49530	COVER, THERMOSTAT	1							
29	1	129795-49551	GASKET	1							
30	1	26106-080222	BOLT, M8X 22 PLATED	2							
31	1	171056-49120	PLUG, DRAIN R1/4	1							
32	1	121450-42450	PLUG, M16	1							
33	1	171056-49351	SENSOR, WATER TEMP.	1							
34	1	129150-49360	GASKET	1							
35	1	124465-44950	GASKET, 16	1							
36	1	119802-49610	HOSE ASSY, WATER	1							
37	2	119802-49711	HOSE ASSY, WATER	1							
38	2	119802-49730	RETAINER, PIPE	1							
39	2	124722-59050	CLAMP, HOSE 9	2							
40	2	119802-59320	TUBE, CORRUGATED	1							
41	1	119802-49620	HOSE ASSY, WATER	1							
42	2	119802-49721	HOSE ASSY, WATER	1							
43	2	124722-59050	CLAMP, HOSE 9	2							

Fig.11. FUEL INJECTION PUMP



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

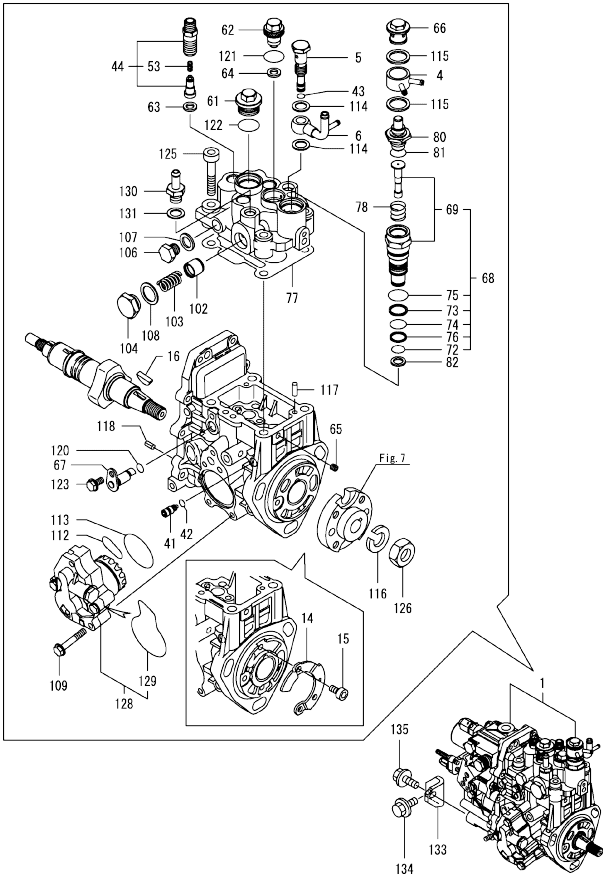
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719935-51410	FIE ASSY	1							1
4	2	158553-51551	JOINT, COOLING WATER	1							
5	2	158601-51650	JOINT, OVER FLOW	1							
6	2	158552-51670	JOINT, OVER FLOW	1							
14	2	129008-51900	COVER, PUMP	1							
15	2	129008-51920	BOLT, SOCKET M6X10	2							
16	2	119802-51090	FEATHER KEY, 4X16	1							
41	2	158600-51270	STOPPER, TAPPET	1							
42	2	158563-51281	O-RING, 4D S6	1							
43	2	158563-51281	O-RING, 4D S6	1							
44	2	129008-51390	VALVE ASSY, DELIVERY	3							
53	3	158563-51330	SPRING, DELIVERY	3							
61	2	158601-51550	PLUG, M22	1							
62	2	119802-51560	PLUG, M14	1							
63	2	158552-51571	GASKET, PLUG	3							
64	2	158552-51571	GASKET, PLUG	1							
65	2	158557-51570	PLUG, RACK	1							
66	2	158601-51570	PLUG	1							
67	2	158552-51580	LIFTER, LINK	1							
68	2	119802-51590	TIMER ASSY	1							
69	3	119802-51600	TIMER ASSY	1							
72	3	158553-51670	O-RING	1							
73	3	119802-51680	RING, BACKUP	1							
74	3	119802-51690	O-RING	1							
75	3	24356-190200	O-RING, 4D19020	1							
76	3	24372-000150	RING, BACK UP T2P15	1							
77	2	158552-51600	GASKET	1							
78	2	158553-51630	SPRING, TIMER	1							
80	2	158553-51650	THERMOELEMENT	1							
81	2	158553-51660	O-RING, P14	1							
82	2	158553-51680	GASKET, TIMER	1							
102	2	158601-51770	PISTON, ACCUMULATOR	1							
103	2	158552-51781	SPRING, ACCUMULATOR	1							
104	2	158601-51790	PLUG	1							
106	2	158553-51930	PLUG, M12	1							
107	2	22190-120002	WASHER, SEAL 12	1							
108	2	22190-180002	WASHER, SEAL 18	1							
109	2	158553-51770	BOLT	4							
112	2	158552-52311	O-RING	1							
113	2	158552-52400	O-RING, 4E S42	1							
114	2	22190-120002	WASHER, SEAL 12	2							
115	2	22190-180002	WASHER, SEAL 18	2							
116	2	22217-140000	WASHER, SPRING 14	1							
117	2	22312-050140	PIN, PARALLEL 5X14	2							
118	2	22351-050010	PIN, SPRING 5.0X10	2							
120	2	24311-000070	O-RING, 1AP7.0	1							
121	2	24356-190180	O-RING, 4D19018	1							
122	2	24356-190200	O-RING, 4D19020	1							
123	2	26106-060102	BOLT, M6X 10 PLATED	1							
125	2	26450-080452	BOLT, M8X 45	4							
126	2	26776-140002	NUT, LOCK M14	1							

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



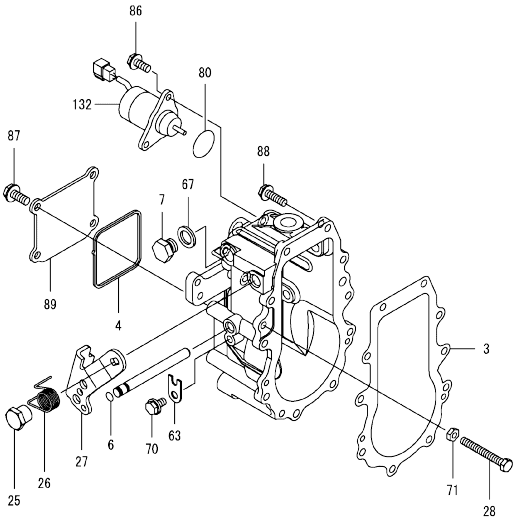
Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).

(A)=3TNV82A-BSHY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
128	2	158552-52100	PUMP ASSY, FUEL FEED	1							
129	3	158552-52500	O-RING	1							
130	2	119934-59910	JOINT, PIPE	1							
131	2	22190-120002	WASHER, SEAL 12	1							
133	1	119802-51250	RETAINER, PUMP	1							
134	1	26106-080162	BOLT, M8X 16 PLATED	1							
135	1	26106-080202	BOLT, M8X 20 PLATED	1							

OCD50-M03310 ENGINE
Fig.12. GOVERNOR

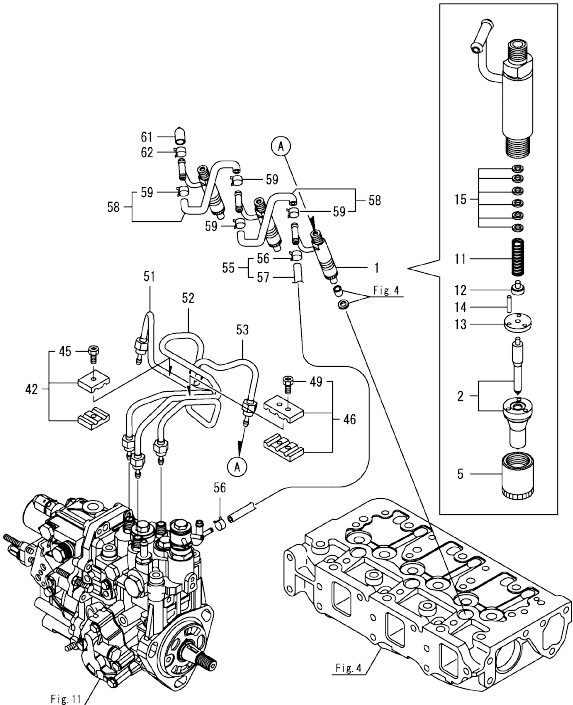


Remarks
* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.11).

OCD50-M03310 Fig.12									
(A)=3TNV82A-BSHY (D)= (E)= (F)=									
No.	Lev.	Parts No.	Description	Q'ty					
				(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					
25	2	129255-61410	NUT, M8	1					
26	2	119807-61420	SPRING, RETURN	1					
27	2	158552-61441	LEVER, REGULATOR	1					
28	2	129155-61461	BOLT, IDLE LIMIT	1					
63	2	119660-61901	STOPPER, SHAFT	1					
67	2	22190-120002	WASHER, SEAL 12	1					
70	2	26106-060102	BOLT, M6X 10 PLATED	1					
71	2	119740-61470	NUT	1					
80	2	158552-61900	O-RING	1					
86	2	26106-060142	BOLT, M6X 14 PLATED	2					
87	2	26106-060142	BOLT, M6X 14 PLATED	4					
88	2	26106-060202	BOLT, M6X 20 PLATED	10					
89	2	129642-61060	COVER, GOVERNOR CASE	1					
132	2	129630-77910	SOLENOID, STOP	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.13. FUEL INJECTION VALVE

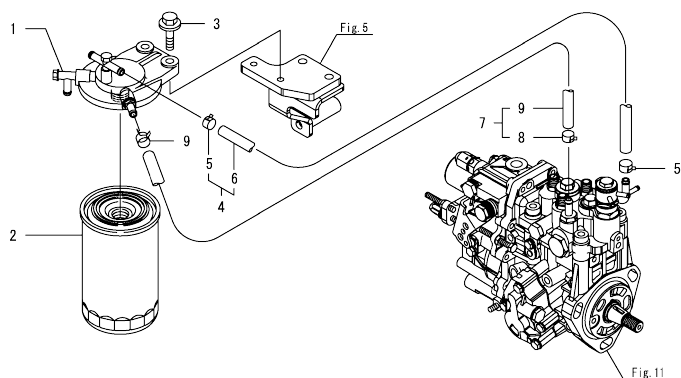


(A)=3TNV82A-BSHY
(B)=
(C)=

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

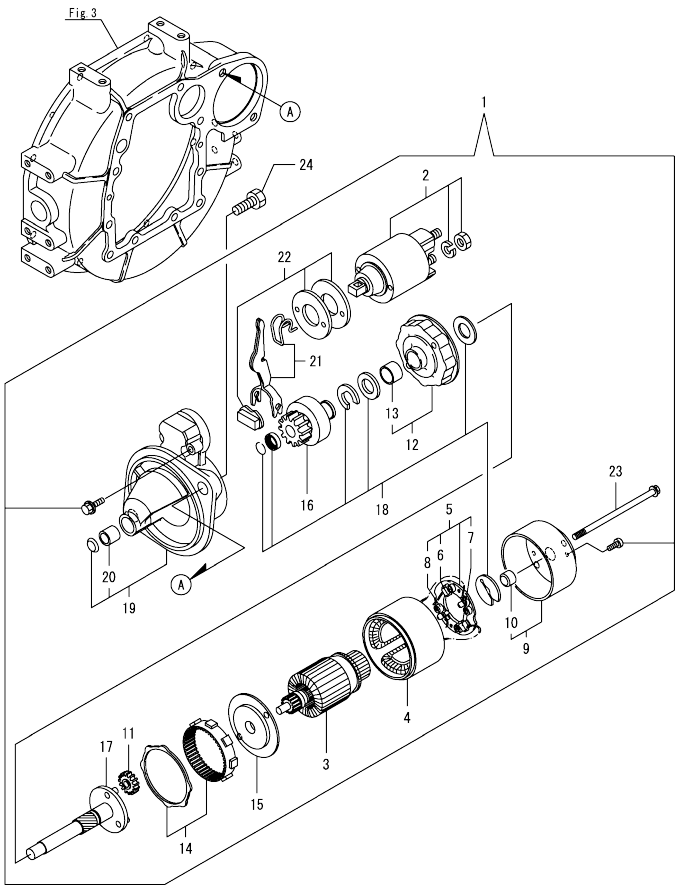
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719803-53100	VALVE ASSY,INJECTION	3							
2	2	119803-53000	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE	3							
11	2	114250-53120	SPRING, NOZZLE	3							
12	2	114250-53130	SEAT, SPRING	3							
13	2	114250-53140	SPACER	3							
14	2	114250-53210	PIN	6							
15	2	119803-53400	SHIM SET	3							
42	1	119305-59120	RETAINER, PIPE	1							1
45	2	129150-59131	BOLT, M4X14	1							
46	1	129150-59120	RETAINER, PIPE	1							
49	2	129150-59131	BOLT, M4X14	2							
51	1	119803-59810	PIPE ASSY, INJECTION	1							
52	1	119803-59820	PIPE ASSY, INJECTION	1							
53	1	119803-59830	PIPE ASSY, INJECTION	1							
55	1	119802-59550	HOSE ASSY, RETURN	1							
56	2	124722-59050	CLAMP, HOSE 9	2							
57	2	119802-59560	HOSE, FUEL RETURN	1							
58	1	129486-59551	HOSE ASSY, RETURN	2							
59	2	124722-59050	CLAMP, HOSE 9	4							
61	1	119593-59581	CAP	1							
62	1	124060-77680	CLAMP, HOSE 10	1							

Remarks
(1)Spare parts.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-55612	BRACKET, FILTER	1							
2	1	129907-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	119940-59020	PIPE ASSY, FUEL L340	1							
5	2	124766-59050	CLAMP, HOSE 11.5	2							
6	2	129255-59580	HOSE, FUEL	1							
7	1	129210-59070	HOSE ASSY, FUEL	1							
8	2	124766-59050	CLAMP, HOSE 11.5	2							
9	2	105025-59760	HOSE, FUEL	1							

Fig.15. STARTER MOTOR

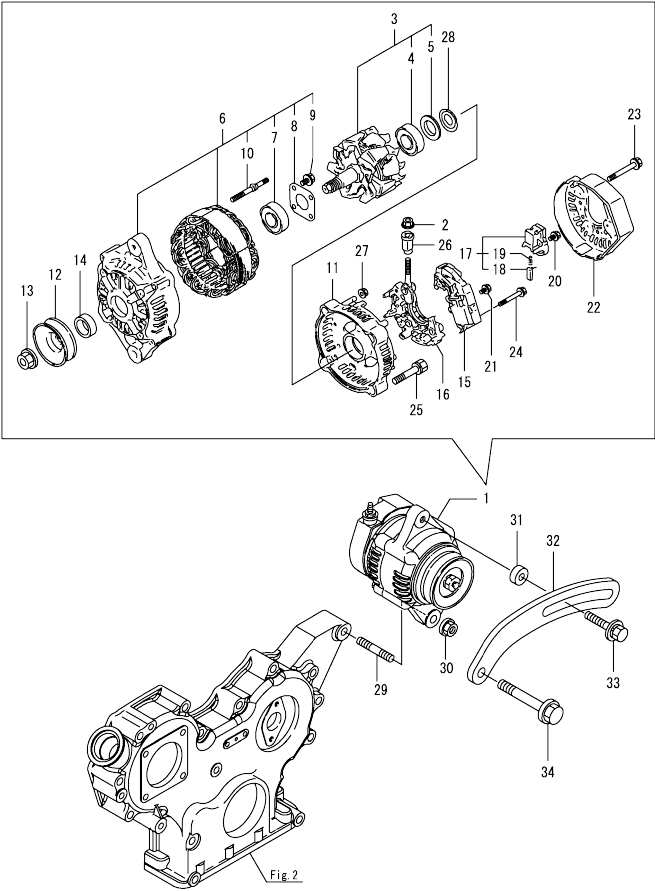


(A)=3TNV82A-BSHY
(B)=
(C)=

(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

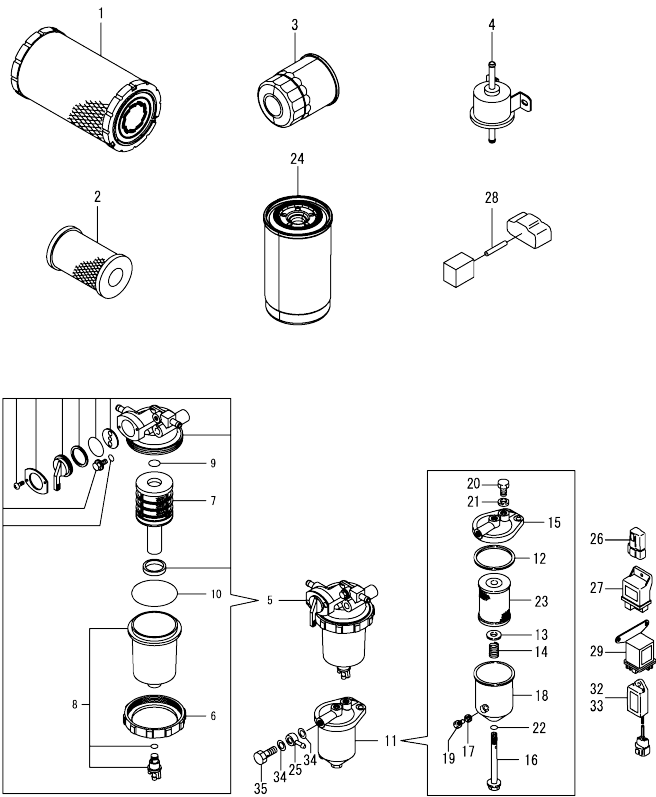


(A)=3TNV82A-BSHY
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129423-77210	ALTERNATOR, 12V-40A	1							
2	2	X9490561001	NUT	1							
3	2	119620-77380	ROTOR ASSY	1							
4	3	123501-79240	BEARING, BALL	1							
5	3	119620-79250	COVER, BEARING	1							
6	2	119620-77421	FRAME ASSY,GENERATOR	1							
7	3	119620-79200	BEARING, BALL	1							
8	3	119620-79210	RETAINER	1							
9	3	119620-79220	SCREW	4							
10	3	119620-79230	BOLT, STUD	2							
11	2	119620-77440	FRAME ASSY	1							
12	2	119620-77461	PULLEY, GENERATOR	1							
13	2	119620-77471	NUT	1							
14	2	119620-77490	COLLAR	1							
15	2	129423-77720	REGULATOR ASSY	1							
16	2	119620-79260	HOLDER	1							
17	2	129052-79270	HOLDER, BRUSH	1							
18	3	119620-77480	BRUSH	2							
19	3	119620-79280	SPRING	2							
20	2	119620-79290	SCREW	6							
21	2	119620-79300	SCREW	1							
22	2	129240-79300	COVER	1							
23	2	119620-79310	BOLT	3							
24	2	119620-79320	SCREW	2							
25	2	119620-79330	BOLT	2							
26	2	119620-79340	BUSH, INSULATION	1							
27	2	119620-79350	NUT	2							
28	2	119620-79360	WASHER, THRUST	1							
29	1	129795-01900	BOLT, STUD M10X33	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							

OCD50-M03310 ENGINE
Fig.17. ACCESSORY



										OCD50-M03310 Fig.17	
										(A)=3TNV82A-BSHY	
										(D)=	
										(E)=	
										(F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119808-12520	ELEMENT, OUTER	1							
2	1	129051-12530	ELEMENT, INNER	1							
3	1	119005-35151	FILTER, D80X100	1							
4	1	119225-52102	PUMP, FUEL FEED	1							
5	1	119802-55700	SEPARATOR ASSY,WATER	1							
6	2	129100-55690	RING, CUP RETAINING	1							
7	2	119802-55710	ELEMENT	1							
8	2	119802-55730	CUP ASSY, SEPARATOR	1							
9	2	24311-000160	O-RING, 1AP16.0	1							
10	2	24321-000650	O-RING, 1AG65.0	1							
11	1	129065-55750	SEPARATOR ASSY,WATER	1							
12	2	123325-35140	GASKET	1							
13	2	123325-35160	WASHER	1							
14	2	129065-55170	SPRING, FILTER	1							
15	2	129495-55610	BODY, STRAINER	1							
16	2	129495-55620	BOLT	1							
17	2	123672-55760	GASKET	1							
18	2	129065-55760	CASE, SEPARATOR	1							
19	2	129065-55770	PLUG, DRAIN M8	1							
20	2	129065-55800	PLUG, M14	1							
21	2	123678-55890	GASKET, PLUG	1							
22	2	24311-000120	O-RING, 1AP12.0	1							
23	2	41650-550800	ELEMENT, FUEL	1							
24	1	129907-55801	FILTER, FUEL	1							
25	1	121750-59910	JOINT, BALL	2							
26	1	119643-66900	DIODE	1							
27	1	119802-77200	RELAY, SAFETY	1							
28	1	129457-77511	CONNECTOR	1							
29	1	119650-77911	RELAY ASSY, GLOW	1							
32	1	128300-77920	TIMER	1							
33	1	129211-77920	TIMER	1							
34	1	22190-140002	WASHER, SEAL 14	4							
35	1	23857-080000	BOLT, JOINT 8	2							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
104211-11180	4	22
104211-11370	4	12
105025-59760	14	9
114250-39450	9	30
114250-53080	13	5
114250-53120	13	11
114250-53130	13	12
114250-53140	13	13
114250-53210	13	14
118400-77170	15	11
119005-35151	9	28
	17	3
119131-18320	6	5
119140-12680	5	18
119225-52102	17	4
119305-59120	13	42
119593-59581	13	61
119609-32040	2	9
119620-01750	3	3
119620-02020	1	9
119620-77380	16	3
119620-77421	16	6
119620-77440	16	11
119620-77461	16	12
119620-77471	16	13
119620-77480	16	18
119620-77490	16	14
119620-79200	16	7
119620-79210	16	8
119620-79220	16	9
119620-79230	16	10
119620-79250	16	5
119620-79260	16	16
119620-79280	16	19
119620-79290	16	20
119620-79300	16	21
119620-79310	16	23
119620-79320	16	24
119620-79330	16	25
119620-79340	16	26
119620-79350	16	27
119620-79360	16	28
119625-11880	4	30
119640-01640	3	8
119643-66900	17	26
119650-77911	17	29
119660-61901	12	63
119717-02930	1	15
119740-61470	12	71
119802-01561	2	5

Parts No.	Fig. No.	Ref. No.
119802-03010	4	39
119802-03090	5	1
119802-03110	4	41
119802-03121	4	42
119802-03130	4	43
119802-03141	4	44
119802-11100	4	19
119802-11110	4	20
119802-11241	4	1
119802-11251	4	2
119802-11260	4	4
119802-11270	4	5
119802-11280	4	6
119802-11310	4	46
119802-11350	4	38
119802-11650	4	8
119802-11810	4	28
119802-11870	4	29
119802-11900	4	31
119802-12130	5	4
119802-12560	5	10
119802-13129	6	2
119802-14590	7	3
119802-21650	8	8
119802-22500	8	17
119802-22950	8	37
119802-25071	7	13
119802-25101	7	10
119802-25901	7	16
119802-34802	9	15
119802-35100	9	23
119802-39450	9	32
119802-42001	10	1
119802-49610	10	36
119802-49620	10	41
119802-49711	10	37
119802-49721	10	42
119802-49730	10	38
119802-51090	11	16
119802-51250	11	133
119802-51560	11	62
119802-51590	11	68
119802-51600	11	69
119802-51680	11	73
119802-51690	11	74
119802-55700	17	5
119802-55710	17	7
119802-55730	17	8
119802-59320	10	40
119802-59550	13	55

Parts No.	Fig. No.	Ref. No.
119802-59560	13	57
119802-77200	17	27
119802-77330	16	32
119803-01520	2	4
119803-11340	4	23
119803-11700	4	13
119803-21000	8	1
119803-21200	8	4
119803-22080	8	15
119803-25050	7	9
119803-53000	13	2
119803-53400	13	15
119803-59810	13	51
119803-59820	13	52
119803-59830	13	53
119803-77520	5	23
119803-77821	4	55
119803-77830	4	56
119807-61420	12	26
119808-12520	5	13
	17	1
119808-12540	5	15
119810-01200	1	27
119810-01730	3	6
119810-02871	1	32
119810-02941	1	35
119810-11120	4	21
119810-12112	5	3
119810-13110	6	1
119810-14400	7	2
119810-23200	8	29
119810-23601	8	30
119810-23611	8	33
119810-23910	8	32
119810-35300	9	18
119810-42051	10	3
119810-42120	10	4
119810-42281	10	8
119810-42290	10	9
119812-01330	1	28
119813-22300	8	24
119823-01770	3	7
119865-21600	8	14
119866-12541	5	16
119910-12210	5	9
119910-12510	5	12
119910-12610	5	11
119934-01800	2	3
119934-59910	11	130
119935-55620	5	5

Parts No.	Fig. No.	Ref. No.
119940-59020	14	4
119940-77270	16	31
120270-54410	4	32
121023-01551	2	19
121111-21501	8	11
121267-44741	10	23
121450-42450	10	32
121520-34810	9	16
121750-59910	17	25
121850-21680	8	10
121850-51960	2	10
123325-35140	17	12
123325-35160	17	13
123501-79240	16	4
123672-55760	17	17
123678-55890	17	21
123900-13610	6	3
124060-01050	1	4
124060-11800	4	27
124060-77680	13	62
124160-01751	2	6
	4	37
124160-01910	1	6
		7
124160-11340	4	24
124160-11360	4	49
124160-39140	9	31
124195-77770	15	23
124240-01871	2	7
124465-44950	10	35
124722-59050	10	39
		43
	13	56
		59
124766-59050	14	5
		8
128300-77920	17	32
129001-01250	1	5
129001-32002	9	1
129004-13200	6	7
129004-55612	14	1
129005-59830	9	33
129008-51390	11	44
129008-51900	11	14
129008-51920	11	15
129008-77800	4	54
129044-42290	10	22
129051-12530	5	14
	17	2
129052-79270	16	17

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129054-42320	10	11
129065-55170	17	14
129065-55750	17	11
129065-55760	17	18
129065-55770	17	19
129065-55800	17	20
129100-01580	3	1
		13
	8	2
129100-35140	9	25
129100-55690	17	6
129150-02450	7	4
129150-03070	4	40
129150-11230	4	9
129150-11280	4	7
129150-11750	4	11
129150-14101	7	6
129150-14200	7	1
129150-25301	7	15
129150-32020	9	13
129150-35042	9	17
129150-35111	9	26
129150-49360	10	34
129150-49811	10	27
129150-59120	13	46
129150-59131	13	45
		49
129150-77511	5	22
129155-42350	10	21
129155-49801	10	26
129155-51280	12	6
129155-61461	12	28
129210-59070	14	7
129211-77920	17	33
129240-13550	6	8
129240-79300	16	22
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

Parts No.	Fig. No.	Ref. No.
129255-59580	14	6
129255-61410	12	25
129350-49530	10	28
129410-03990	5	2
129423-77210	16	1
129423-77720	16	15
129457-77511	17	28
129486-01670	3	17
129486-42050	10	16
129486-59551	13	58
129489-21590	8	12
129495-55610	17	15
129495-55620	17	16
129612-01600	3	2
129612-12650	5	17
129630-77910	12	132
129642-61060	12	89
129648-01600	3	14
129648-01780	3	16
129698-77020	15	2
129698-77190	15	13
129698-77200	15	14
129698-77220	15	16
129698-77230	15	17
129698-77250	15	18
129792-22400	8	25
129795-01900	16	29
129795-01950	2	8
129795-02412	1	12
129795-21661	8	9
129795-49551	10	29
129900-07900	4	52
129907-55801	14	2
	17	24
129972-77341	16	33
129E00-13640	6	4
158552-51151	7	17
158552-51571	11	63
		64
158552-51580	11	67
158552-51600	11	77
158552-51670	11	6
158552-51781	11	103
158552-52100	11	128
158552-52311	11	112
158552-52400	11	113
158552-52500	11	129
158552-61441	12	27
158552-61900	12	80
158553-51551	11	4

Parts No.	Fig. No.	Ref. No.
158553-51630	11	78
158553-51650	11	80
158553-51660	11	81
158553-51670	11	72
158553-51680	11	82
158553-51770	11	109
158553-51930	11	106
	12	7
158553-61050	12	3
158553-61070	12	4
158557-51570	11	65
158563-51281	11	42
		43
158563-51330	11	53
158600-51270	11	41
158601-51550	11	61
158601-51570	11	66
158601-51650	11	5
158601-51770	11	102
158601-51790	11	104
171051-01921	1	8
171056-49120	10	31
171056-49351	10	33
171353-44760	10	24
22190-080002	2	11
	9	34
		36
22190-100002	9	37
22190-120002	11	107
		114
		131
	12	67
22190-140002	17	34
22190-180002	11	108
		115
22190-220002	3	10
22217-140000	11	116
22312-050140	11	117
22351-030010	8	7
22351-050010	11	118
22351-060012	4	33
22512-070140	7	7
	8	5
22857-500100	4	47
		48
23000-060000	5	19
23414-080000	10	17
23857-030000	9	35
23857-080000	17	35
23876-030000	10	13

Parts No.	Fig. No.	Ref. No.
24311-000070	11	120
24311-000120	4	50
	17	22
24311-000160	17	9
24311-000320	2	12
	4	51
24321-000650	17	10
24341-000240	2	20
24356-190180	11	121
24356-190200	11	75
		122
24372-000150	11	76
26013-080222	5	20
		21
26106-060102	11	123
	12	70
26106-060142	10	14
	12	86
		87
26106-060162	2	21
26106-060202	10	15
	12	88
26106-060402	10	25
26106-080122	10	18
26106-080142	7	8
26106-080162	2	13
		17
	3	11
	4	53
	11	134
26106-080202	5	24
	9	29
	11	135
26106-080222	10	30
26106-080252	4	34
	5	6
		7
26106-080302	2	14
	14	3
26106-080352	3	18
	9	22
	10	19
26106-080402	7	14
26106-080452	3	12
	4	35
	16	34
26106-080502	4	36
26106-080552	2	15
	10	20
26106-080802	5	8

Parts No. Index

Parts No.	Fig. No.	Ref. No.
26106-080802	5	25
26106-080852	2	16
26106-100162	6	9
26106-120252	15	24
26206-100252	3	4
26206-100302	3	5
26306-080002	2	18
	6	6
		10
26306-100002	16	30
26366-060002	9	38
26450-060252	9	14
26450-080452	11	125
26776-140002	11	126
27241-120000	1	13
27241-300000	1	14
27241-400000	4	18
27310-070001	4	25
41650-550800	17	23
719802-01560	1	1
719803-01500	2	1
719803-22900	8	35
719803-53100	13	1
719810-02981	1	29
719810-23100	8	26
719935-51410	11	1
X2114535200	15	20
X9490561001	16	2

Parts No.	Fig. No.	Ref. No.
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Parts No.	Fig. No.	Ref. No.
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Parts No.	Fig. No.	Ref. No.
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