

0CD50-M00710EN

P R E F A C E

This parts catalog is the 1st edition of 4TNV88-BDCR for Antonio Carraro spa.

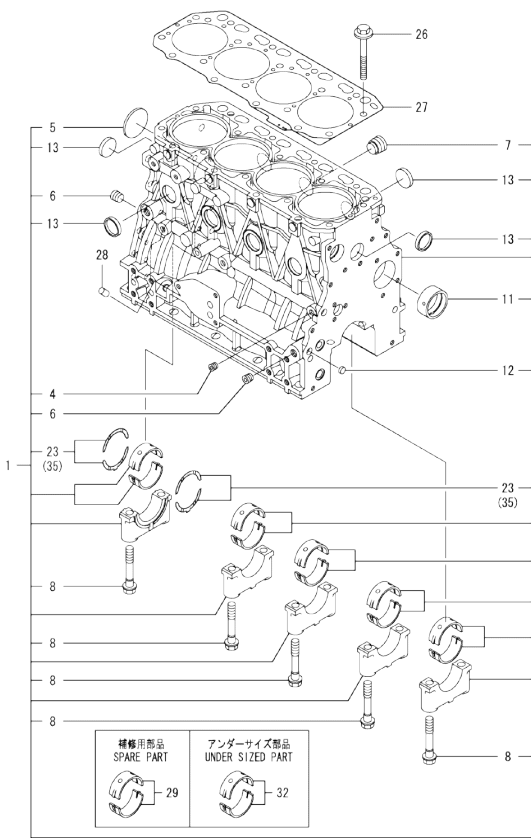
Published : September, 2014

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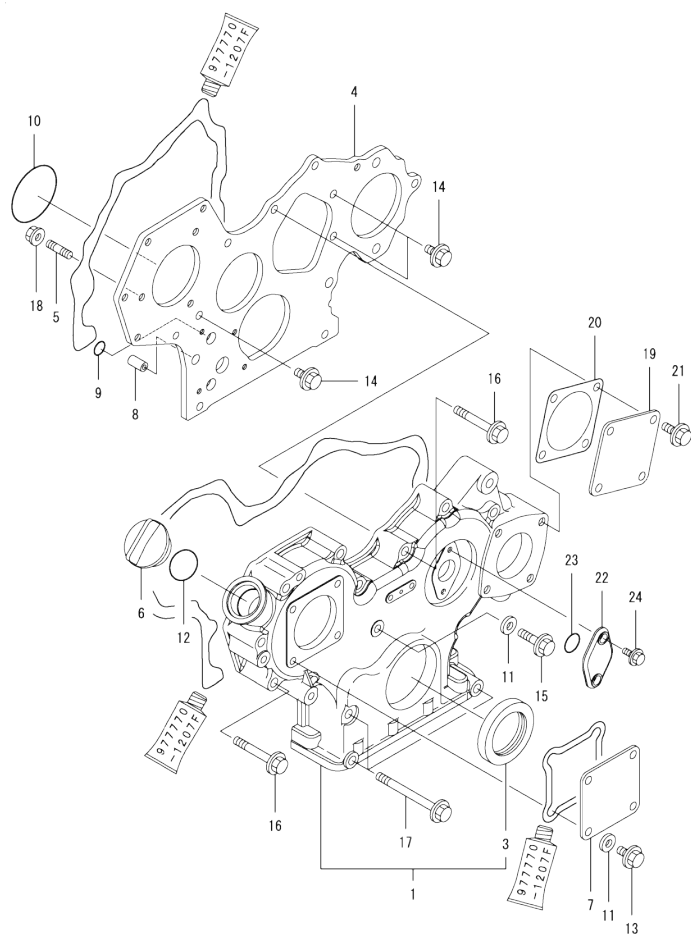
Fig.1. CYLINDER BLOCK



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729659-01570	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, 50	1							
6	2	124160-01910	PLUG, PT1/4	2							
7	2	171051-01921	PLUG, NPTF1	1							
8	2	129150-02020	BOLT, METAL CAP	10							
11	2	129795-02412	BUSH, CAMSHAFT	1							
12	2	27241-120000	PLUG, 12	2							
13	2	27241-300000	PLUG 30	8							
23	2	129150-02931	BEARING, THRUST	2							
26	1	129150-01200	BOLT, HEAD	18							
27	1	129407-01340	GASKET, HEAD	1							
28	1	119309-01810	PLUG	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

Fig.2. GEAR HOUSING



0CD50-M00710 Fig.2

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

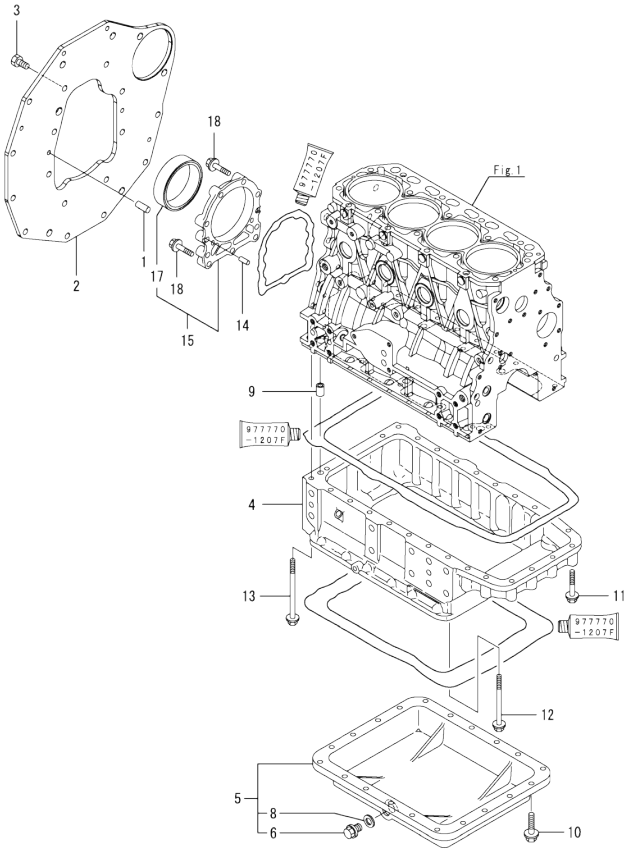
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729652-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	129604-01520	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 8	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	10							
17	1	26106-080852	BOLT, M8X 85 PLATED	3							
18	1	26306-080002	NUT, M8	3							
19	1	124240-01871	COVER	1							
20	1	129C26-01890	GASKET, HO-P	1							
21	1	26106-080162	BOLT, M8X 16 PLATED	4							
22	1	121023-01551	COVER	1							
23	1	24341-000240	O-RING, 1AS24.0	1							
24	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. MOUNTING FLANGE & OIL SUMP



OCD50-M00710 Fig.3

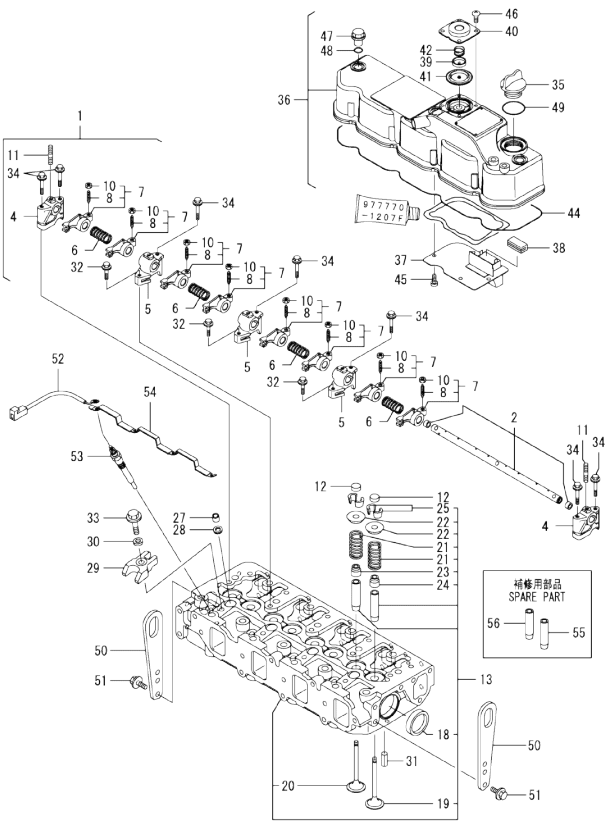
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(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, 8X16	2							
2	1	129657-01610	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	8							
4	1	129550-01702	SUMP, OIL	1							
5	1	129657-01730	COVER ASSY, OIL SUMP	1							
6	2	105425-01690	PLUG, 16	1							
8	2	22190-160002	WASHER, SEAL 16	1							
9	1	129555-01750	PIPE, KNOCK 14X18	1							
10	1	26106-080252	BOLT, M8X 25 PLATED	20							
11	1	26106-080502	BOLT, M8X 50 PLATED	8							
12	1	26106-081002	BOLT, M8X100 PLATED	14							
13	1	26106-081202	BOLT, M8X120 PLATED	4							
14	1	129100-01580	PIN, 8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	9							

OCD50-M00710 4TNV88-BDCR

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

OCD50-M00710 Fig.4

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129601-11241	SHAFT ASSY, ROCKER	1							
2	2	129601-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	3							
6	2	129150-11280	SPRING, SHAFT	4							
7	2	129004-11650	ARM ASSY, ROCKER	8							
8	3	129150-11230	SCREW, VALVE ADJUST	8							
10	3	129150-11750	NUT, M8XP1.0	8							
11	2	26226-080182	STUD, M8X 18	3							
12	1	129150-11370	CAP, VALVE	8							
13	1	129604-11700	HEAD ASSY, CYLINDER	1							
18	2	27241-400000	PLUG, 40	2							
19	2	129005-11100	VALVE, INTAKE	4							
20	2	129100-11112	VALVE, EXHAUST	4							
21	2	129795-11120	SPRING, VALVE	8							
22	2	129795-11180	RETAINER, SPRING	8							
23	2	121400-11340	SEAL, VALVE STEM	4							
24	2	124460-11340	SEAL, VALVE STEM	4							
25	2	27310-080001	COTTER, 8	8							
27	1	119802-11870	PROTECTOR, NOZZLE	4							
28	1	119625-11880	SEAT, NOZZLE	4							
29	1	129004-11900	RETAINER, NOZZLE	4							
30	1	120270-54410	WASHER, INJECTOR	4							
31	1	22351-060012	PIN, SPRING 6.0X12	2							
32	1	26106-080252	BOLT, M8X 25 PLATED	3							
33	1	26106-080352	BOLT, M8X 35 PLATED	4							
34	1	26106-080502	BOLT, M8X 50 PLATED	7							
35	1	124160-01751	CAP, FILLER	1							
36	1	129601-11350	BONNET ASSY, HEAD	1							
36-1	1	129236-11360	BONNET ASSY, HEAD	1							N
(A=E153578)											
37	2	129004-03010	PLATE, BAFFLE	1							
38	2	129150-03070	BAFFLE, BREATHER	1							
39	2	119802-03110	PLATE, DIAPHRAGM	1							
40	2	119802-03121	COVER, DIAPHRAGM	1							
40-1	2	129236-03120	COVER, DIAPHRAGM	1							N
(A=E153578)											
41	2	119802-03130	DIAPHRAGM, BREATHER	1							
42	2	119802-03141	SPRING, DIAPHRAGM	1							
44	2	129601-11310	GASKET, BONNET	1							
45	2	22857-500100	SCREW, 5X10	4							
46	2	22857-500100	SCREW, 5X10	4							
47	1	124160-11360	KNOB, BONNET	3							
48	1	24311-000120	O-RING, 1AP12.0	3							
49	1	24311-000320	O-RING, 1AP32.0	1							
50	1	129900-07900	LIFTER, ENGINE	2							
51	1	26106-080162	BOLT, M8X 16 PLATED	4							
52	1	119803-77830	HARNESS, WIRE	1							
53	1	129008-77800	PLUG, GLOW	4							
54	1	129604-77821	CONNECTOR, GLOW PLUG	1							
55	1	120130-11860	GUIDE, VALVE	4							1

N:Old, New, Q:Old, New, R:Old, New, S:Old, New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.4. CYLINDER HEAD & BONNET



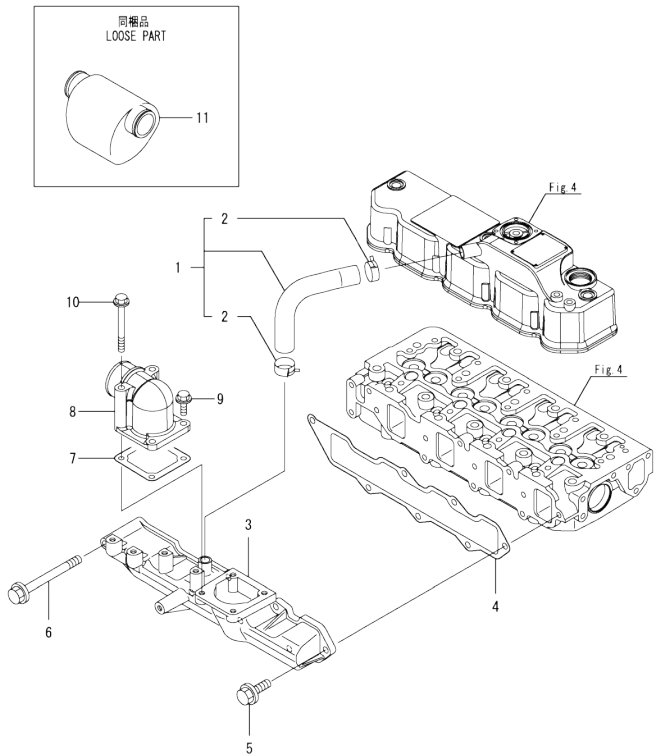
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(B)=
(C)=

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

 $Q^{\#}$

N:Old $\xrightarrow{\text{Yes}} \text{New, Q:Old} \xrightarrow{\text{No}} \text{New, R:Old} \xrightarrow{\text{Yes}} \text{New, S:Old} \xrightarrow{\text{No}} \text{New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change}$
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OCD50-M00710 4TNV88-BDCR
Fig.5. SUCTION MANIFOLD



OCD50-M00710 Fig.5

(A)=4TNV88-BDCR

(D)=

(B)=

(E)=

(C)=

(F)=

No.

Lev.

Parts No.

Description

(A)

(B)

(C)

Q'ty

(D)

(E)

(F)

I

R

11

1

129005-03080

PIPE , BREATHER

1

22

2

129410-03990

CLIP,HOSE 21.5

2

31

1

129602-12101

MANIFOLD, AIR INTAKE

1

41

1

129407-12110

GASKET, MANIFOLD

1

51

1

26106-080202

BOLT, M8X 20 PLATED

6

61

1

26106-080802

BOLT, M8X 80 PLATED

1

71

1

129150-77511

GASKET

1

81

1

119803-77520

BEND, AIR HEATER

1

91

1

26106-080202

BOLT, M8X 20 PLATED

2

101

1

26106-080802

BOLT, M8X 80 PLATED

2

111

1

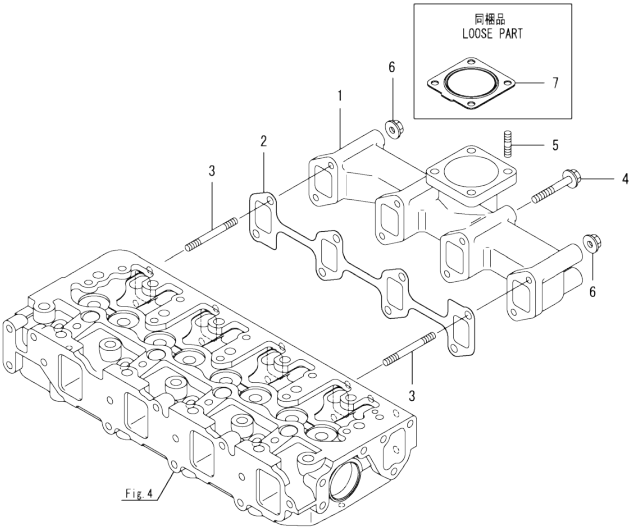
121855-12060

SILENCER ASSY

1

</

0CD50-M00710 4TNV88-BDCR
Fig.6. EXHAUST MANIFOLD



0CD50-M00710 Fig.6

(A)=4TNV88-BDCR

(D)=

(B)=

(E)=

(C)=

(F)=

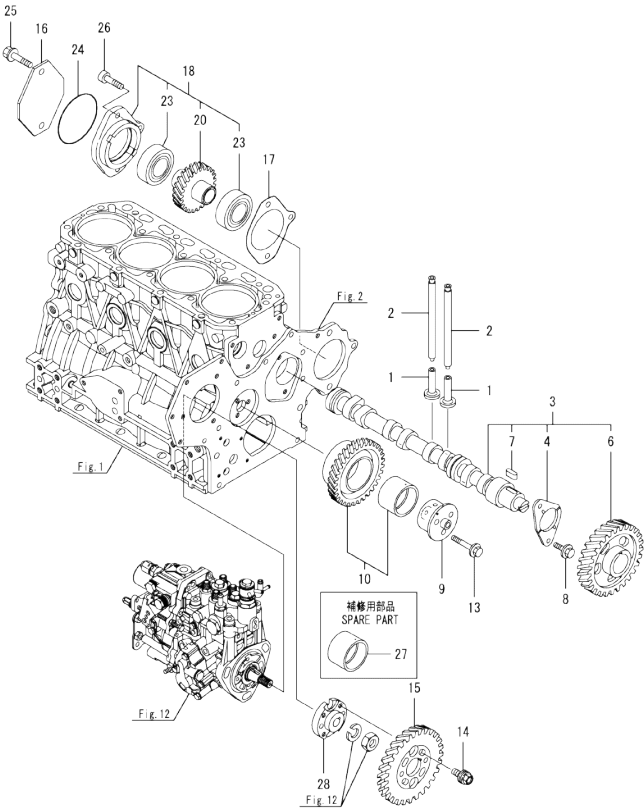
Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	129411-13100	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, M8X22	4					
6	1	26306-080002	NUT, M8	2					
7	1	129930-13201	GASKET, SILENCER	1					

OCD50-M00710 4TNV88-BDCR

Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare parts.

OCD50-M00710 Fig.7

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

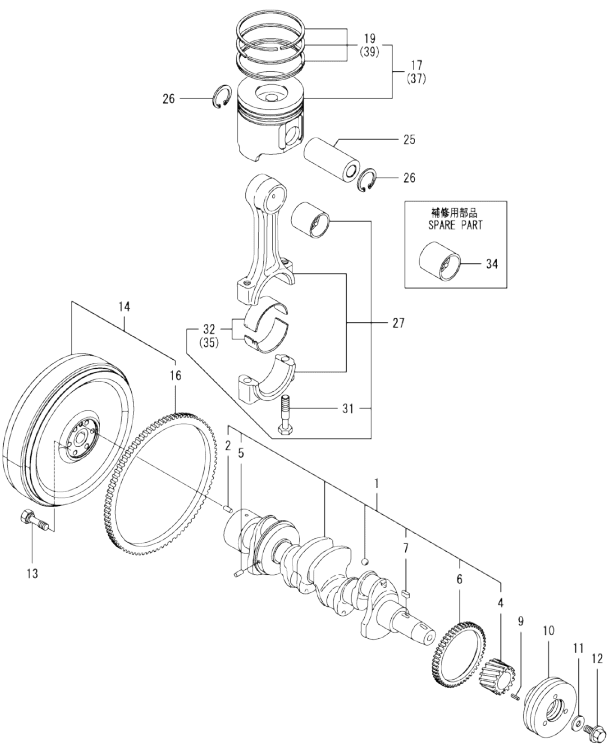
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8							
2	1	129150-14400	ROD, PUSH L=178	8							
3	1	729402-14580	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	26106-080402	BOLT, M8X 40 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119802-25901	GEAR, PUMP	1							
16	1	121023-26071	COVER	1							
17	1	171353-26081	GASKET	1							
18	1	129484-26200	DRIVE ASSY, PUMP	1							
20	2	129484-26210	GEAR ASSY	1							
23	2	24105-060064	BEARING, BALL 6006Z	2							
24	1	24321-000850	O-RING, 1AG85.0	1							
25	1	26106-100452	BOLT, M10X 45 PLATED	2							
26	1	26450-080282	BOLT, M8X 28	1							
27	1	119802-25071	BUSH, IDLE GEAR	1							1
28	1	158552-51151	FLANGE	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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OCD50-M00710 4TNV88-BDCR

Fig.8. CRANKSHAFT & PISTON



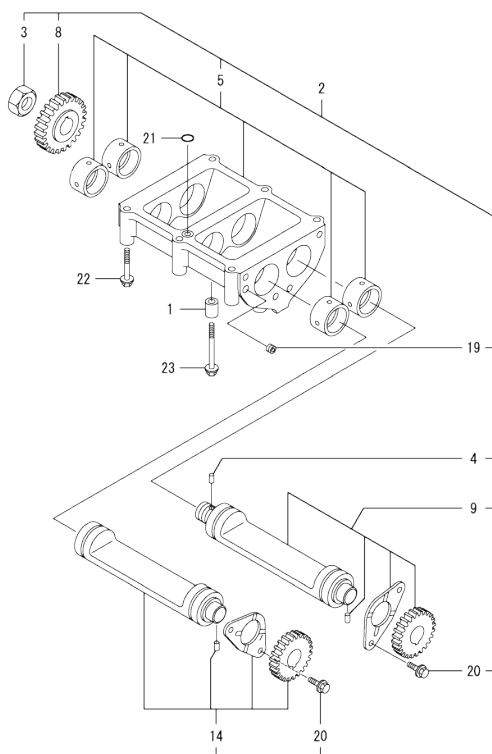
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

OCD50-M00710 Fig.8

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

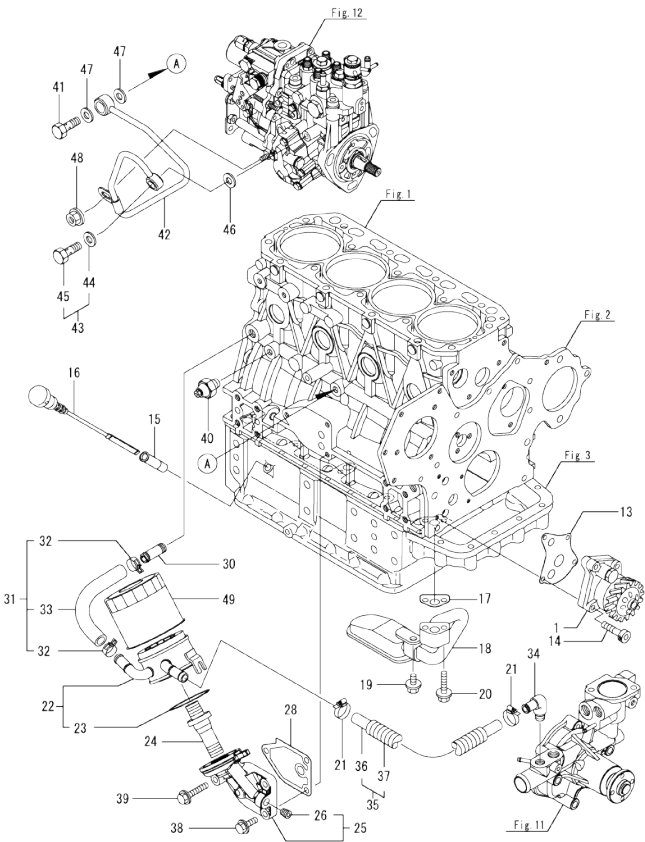
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129652-21010	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, 8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	121850-21290	PIN	1							
6	2	129400-28121	GEAR, BALANCER	1							
7	2	22512-070140	KEY, 7X 14	1							
9	1	22351-030010	PIN, SPRING 3.0X10	1							
10	1	119802-21650	V-PULLEY, 110	1							
11	1	129795-21661	WASHER	1							
12	1	121850-21680	BOLT	1							
13	1	121111-21501	BOLT, FLYWHEEL	6							
14	1	129657-21580	FLYWHEEL ASSY	1							
16	2	124550-21600	GEAR, RING	1							
17	1	129005-22080	PISTON ASSY	4							
19	2	129005-22500	RING SET, PISTON	4							
25	1	129202-22300	PIN, PISTON D26 L70	4							
26	1	22252-000260	RING, 26	8							
27	1	729402-23100	ROD ASSY, CONNECTING	4							
31	2	121550-23200	BOLT, CONNECTING ROD	8							
32	2	129150-23601	BEARING, CRANK PIN	4							
34	1	129100-23910	BEARING, PISTON PIN	4							1
35	1	129150-23611	BEARING, 0.25 US	4							2
37	1	129005-22900	PISTON ASSY, 0.25 OS	4							3
39	2	129005-22950	RING SET, 0.25 OS	4							3



				0CD50-M00710 Fig.9							
				(A)=4TNV88-BDCR	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I	R
1	1	129795-01960	PIPE, KNOCK	2							
2	1	129457-28000	BALANCER ASSY	1							
3	2	128170-14150	NUT	1							
4	2	121850-21290	PIN	1							
5	2	129457-28011	CASE ASSY, BALANCER	1							
8	2	129400-28150	GEAR, BALANCER	1							
9	2	729490-28510	SHAFT ASSY, BALANCER	1							
14	2	729490-28520	SHAFT ASSY, BALANCER	1							
19	2	23876-005000	PLUG, R005	1							
20	2	26106-080142	BOLT, M8X 14 PLATED	4							
21	1	24311-000140	O-RING, 1AP14.0	1							
22	1	26106-080602	BOLT, M8X 60 PLATED	4							
23	1	26106-080802	BOLT, M8X 80 PLATED	2							

Fig.10. LUB. OIL SYSTEM



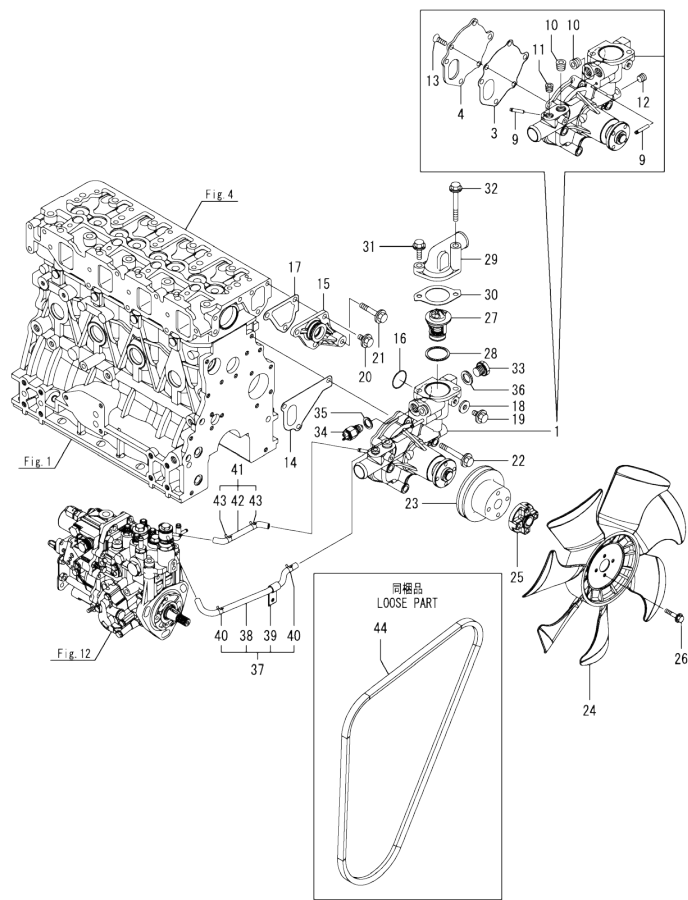
Remarks
(1)Spare parts.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-32001	PUMP ASSY, OIL	1							
13	1	129150-32020	GASKET, PUMP	1							
14	1	26450-060252	BOLT, M6X 25	4							
15	1	121520-34810	GUIDE, DIPSTICK	1							
16	1	129457-34810	DIPSTICK, OIL	1							
17	1	129150-35042	GASKET	1							
18	1	129657-35090	PIPE ASSY, OIL INLET	1							
19	1	26106-080122	BOLT, M8X 12 PLATED	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	129960-03990	CLIP, HOSE 19.8	2							
22	1	129558-33010	COOLER ASSY, OIL	1							
23	2	129508-33050	O-RING	1							
24	1	123910-33100	BOLT	1							
25	1	129558-35000	BRACKET ASSY	1							
26	2	124160-01910	PLUG, PT1/4	1							
28	1	129150-35111	GASKET	1							
30	1	129122-44480	JOINT	1							
31	1	129558-49150	PIPE, COOLING WATER	1							
32	2	171008-03990	CLIP, HOSE 18.5	2							
33	2	129558-49160	PIPE, WATER	1							
34	1	129103-49301	ELBOW, PT1/4	1							
35	1	123910-49600	PIPE, WATER	1							
36	2	123910-49020	PIPE ASSY, WATER	1							
37	2	123910-49610	TUBE, CORRUGATED	1							
38	1	26106-080252	BOLT, M8X 25 PLATED	2							
39	1	26106-080452	BOLT, M8X 45 PLATED	1							
40	1	121252-39450	SWITCH, 0.5KG	1							
41	1	124160-39140	BOLT, PIPE JOINT M10	1							
42	1	119802-39450	PIPE ASSY, OIL	1							
43	1	129005-59830	BOLT ASSY, JOINT M8	1							
44	2	22190-080002	WASHER, SEAL 8	1							
45	2	23857-030000	BOLT, JOINT 3	1							
46	1	22190-080002	WASHER, SEAL 8	1							
47	1	22190-100002	WASHER, SEAL 10	2							
48	1	26366-060002	NUT, M6	1							
49	1	129150-35153	FILTER	1							1

Fig.11. COOLING WATER SYSTEM

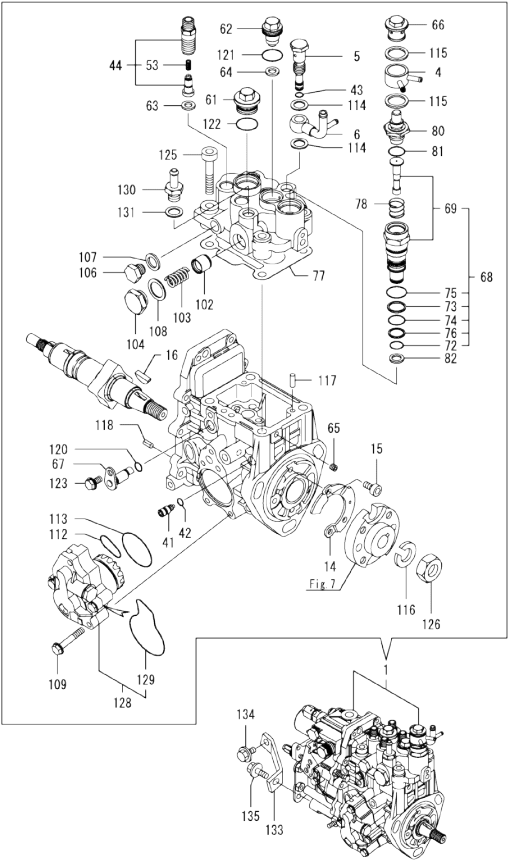


(A)=4TNV88-BDCR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE	1							
9	2	119802-49113	JOINT, PIPE	2							
10	2	129916-49740	PLUG, R03	2							
11	2	23875-020000	PLUG, R02	1							
12	2	23876-010000	PLUG, R01	1							
13	2	26577-060142	SCREW M 6X 14	3							
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET	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	129403-42380	V-PULLEY, D=110	1							
24	1	121267-44741	FAN, COOLING D=360	1							
25	1	121267-44760	SPACER	1							
26	1	26106-060302	BOLT, M6X 30 PLATED	4							
27	1	129457-49801	THERMOSTAT, 82	1							
28	1	129150-49811	GASKET, THERMOSTAT	1							
29	1	124101-49531	COVER, THERMOSTAT	1							
30	1	129795-49551	GASKET	1							
31	1	26106-080252	BOLT, M8X 25 PLATED	1							
32	1	26106-080652	BOLT, M8X 65 PLATED	1							
33	1	121450-42450	PLUG, M16	1							
34	1	121250-44901	SWITCH, 110	1							
35	1	124465-44950	GASKET, 16	1							
36	1	124465-44950	GASKET, 16	1							
37	1	129004-49610	PIPE ASSY, WATER	1							
38	2	129004-49711	PIPE ASSY, WATER	1							
39	2	119802-49730	RETAINER, PIPE	1							
40	2	124722-59050	CLIP, HOSE 9	2							
41	1	129004-49620	PIPE ASSY, WATER	1							
42	2	129004-49721	PIPE ASSY, WATER	1							
43	2	124722-59050	CLIP, HOSE 9	2							
44	1	25132-003600	V-BELT, A36	1							

Fig.12. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.13) is incorporated in this Fuel Injection Pump(No.1).

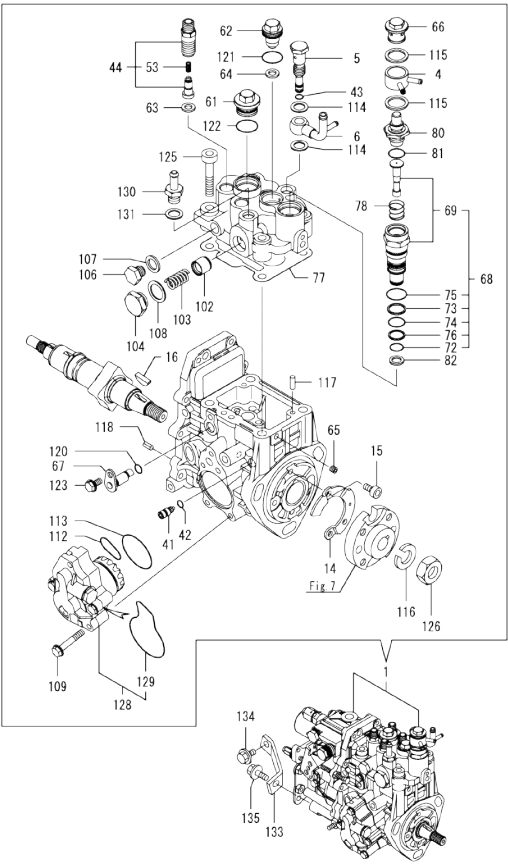
(A)=4TNV88-BDCR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729657-51340	FIE ASSY	1							1
4	2	158553-51551	JOINT	1							
5	2	158601-51650	JOINT, OVER FLOW	1							
6	2	158552-51670	JOINT, OVER FLOW	1							
14	2	129008-51900	COVER, GEAR CASE	1							
15	2	129008-51920	BOLT, M6X10	2							
16	2	119802-51090	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	4							
53	3	158563-51330	SPRING, DELIVERY	4							
61	2	158601-51550	PLUG	1							
62	2	119802-51560	PLUG, BARREL	1							
63	2	158552-51571	GASKET	4							
64	2	158552-51571	GASKET	1							
65	2	158557-51570	PLUG	1							
66	2	158601-51570	PLUG	1							
67	2	158552-51580	LIFTER	1							
68	2	119802-51590	TIMER SET	1							
69	3	119802-51600	TIMER ASSY	1							
72	3	158553-51670	O-RING, 1011	1							
73	3	119802-51680	RING, BACK UP	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	ELEMENT	1							
81	2	158553-51660	O-RING, P14	1							
82	2	158553-51680	GASKET	1							
102	2	158601-51770	PISTON	1							
103	2	158552-51781	SPRING	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, 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.12. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.13) is incorporated in this Fuel Injection Pump(No.1).

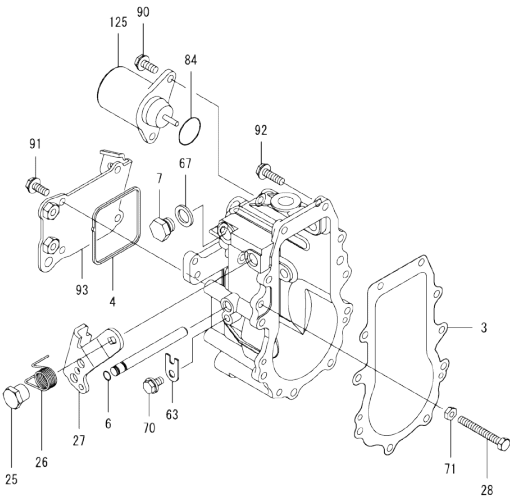
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(B)=
(C)=

(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	129601-51250	RETAINER, PUMP	1							
134	1	26106-080162	BOLT, M8X 16 PLATED	1							
135	1	26106-080202	BOLT, M8X 20 PLATED	1							

OCD50-M00710 4TNV88-BDCR

Fig.13. GOVERNOR



Remarks
* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.12).

OCD50-M00710 Fig.13

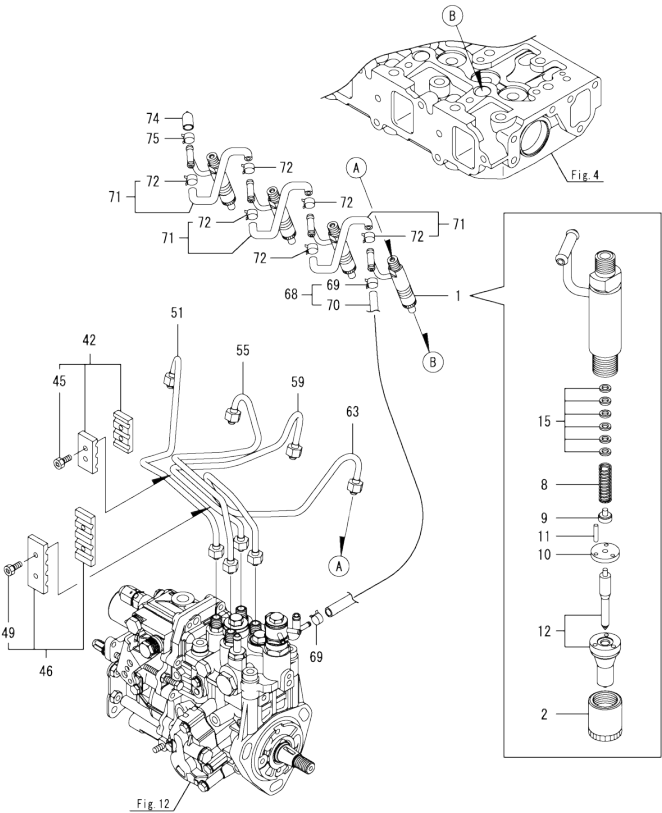
(A)=4TNV88-BDCR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
7	2	158553-51930	PLUG, M12	1							
25	2	129255-61410	NUT, LOCK	1							
26	2	119807-61420	SPRING, RETURN	1							
27	2	158552-61441	LEVER, REGULATOR	1							
28	2	129155-61460	BOLT, IDLE	1							
63	2	119660-61901	RETAINER, SHAFT	1							
67	2	22190-120002	WASHER, SEAL 12	1							
70	2	26106-060102	BOLT, M6X 10 PLATED	1							
71	2	26756-060002	NUT, LOCK M6	1							
84	2	158552-61900	O-RING	1							
90	2	26106-060142	BOLT, M6X 14 PLATED	2							
91	2	26106-060142	BOLT, M6X 14 PLATED	4							
92	2	26106-060202	BOLT, M6X 20 PLATED	10							
93	2	158552-61061	COVER, GOVERNOR CASE	1							
125	2	119653-77950	SOLENOID, STOP	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.14. FUEL INJECTION VALVE

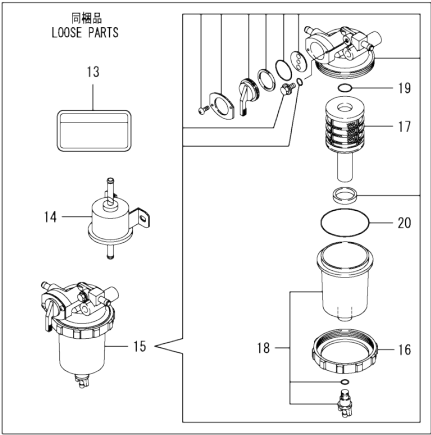
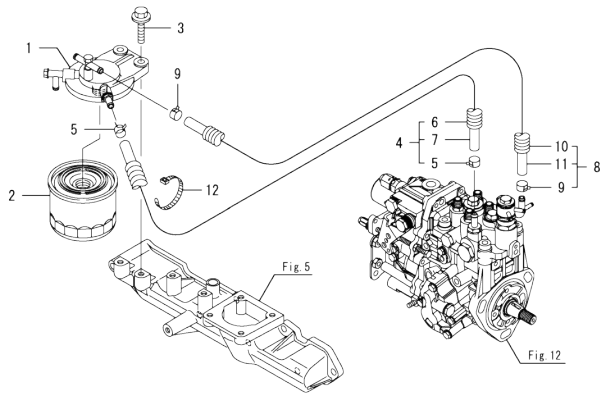


(A)=4TNV88-BDCR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	4							
2	2	114250-53080	NUT, NOZZLE D16.95	4							
8	2	114250-53120	SPRING, NOZZLE	4							
9	2	114250-53130	SEAT, SPRING	4							
10	2	114250-53140	PLATE	4							
11	2	114250-53210	PIN	8							
12	2	129604-53300	VALVE ASSY,INJECTION	4							
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							

Fig.15. FUEL PIPE

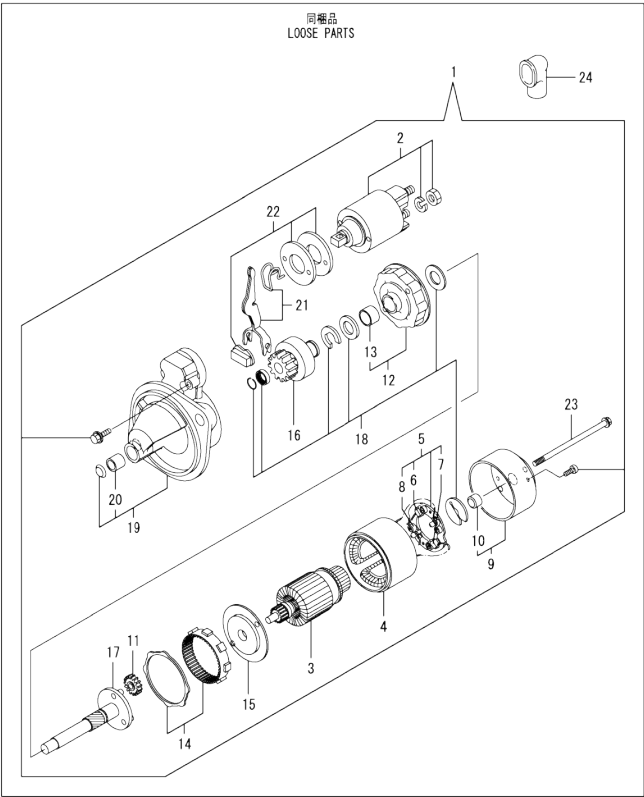


(A)=4TNV88-BDCR
(B)=
(C)=

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

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	129630-59010	PIPE ASSY, FUEL	1							
5	2	124766-59050	CLIP, HOSE 11.5	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 11.5	2							
10	2	129957-59101	TUBE, CORRUGATED	1							
11	2	105225-59511	PIPE, FUEL	1							
12	1	121750-59890	BAND, 140	1							
13	1	114110-07761	LABEL, FUEL OIL CAUT	1							
14	1	119225-52102	PUMP ASSY, FUEL FEED	1							
15	1	119802-55700	SEPARATOR ASSY	1							
16	2	129100-55690	RING, RETAINING	1							
17	2	119802-55710	ELEMENT	1							
18	2	119802-55730	CUP ASSY	1							
19	2	24311-000160	O-RING, 1AP16.0	1							
20	2	24321-000650	O-RING, 1AG65.0	1							

Fig.16. STARTER MOTOR



(A)=4TNV88-BDCR
(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, 1.7	1							
2	2	129698-77020	SWITCH ASSY	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	4							
9	2	129242-77160	COVER ASSY	1							
10	3	129242-77170	METAL	1							
11	2	118400-77170	GEAR	3							
12	2	129242-77180	BRACKET	1							
13	3	129698-77190	BRACKET	1							
14	2	129698-77200	GEAR, INTERNAL	1							
15	2	129242-77210	BRACKET	1							
16	2	129698-77220	PINION ASSY	1							
17	2	129698-77230	SHAFT	1							
18	2	129698-77250	WASHER SET	1							
19	2	129242-77260	CASE ASSY	1							
20	3	X2114535200	METAL, STARTER	1							
21	2	129242-77270	LEVER SET	1							
22	2	129242-77280	COVER ASSY, DUST	1							
23	2	124195-77770	BOLT, THROUGH	2							
24	1	124550-77030	COVER, TERMINAL	1							



Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59560	15	7
105225-59511	15	11
105425-01690	3	6
114110-07761	15	13
114250-53080	14	2
114250-53120	14	8
114250-53130	14	9
114250-53140	14	10
114250-53210	14	11
118400-77170	16	11
119131-18320	6	5
119225-52102	15	14
119309-01810	1	28
119593-59581	14	74
119609-32040	2	9
119620-77461	17	16
119620-77471	17	17
119620-77490	17	18
119620-79200	17	10
119620-79210	17	11
119620-79220	17	12
119620-79230	17	13
119620-79250	17	8
119620-79290	17	22
119620-79300	17	23
119620-79310	17	24
119620-79320	17	25
119620-79330	17	26
119620-79340	17	27
119620-79350	17	28
119625-11880	4	28
119626-77210	17	4
119626-77450	17	15
119643-66900	17	3
119650-77911	17	31
119653-77950	13	125
119660-61901	13	63
119802-01561	2	5
119802-03110	4	39
119802-03121	4	40
119802-03130	4	41
119802-03141	4	42
119802-11260	4	4
119802-11270	4	5
119802-11870	4	27
119802-21650	8	10
119802-25071	7	27
119802-25101	7	10
119802-25901	7	15
119802-39450	10	42

Parts No.	Fig. No.	Ref. No.
119802-49113	11	9
119802-49730	11	39
119802-51090	12	16
119802-51560	12	62
119802-51590	12	68
119802-51600	12	69
119802-51680	12	73
119802-51690	12	74
119802-55700	15	15
119802-55710	15	17
119802-55730	15	18
119802-55801	15	2
119802-59550	14	68
119802-59560	14	70
119803-21200	8	4
119803-25050	7	9
119803-53400	14	15
119803-77520	5	8
119803-77830	4	52
119807-61420	13	26
119934-01800	2	3
119934-59910	12	130
120130-11860	4	55
120270-54410	4	30
121023-01551	2	22
121023-26071	7	16
121111-21501	8	13
121250-44901	11	34
121252-39450	10	40
121267-44741	11	24
121267-44760	11	25
121400-11340	4	23
121450-42450	11	33
121520-34810	10	15
121550-23200	8	31
121750-59890	15	12
121850-21290	8	5
	9	4
121850-21680	8	12
121850-51960	2	10
121855-12060	5	11
123501-79240	17	7
123900-13610	6	3
123900-13630	6	4
123910-33100	10	24
123910-49020	10	36
123910-49600	10	35
123910-49610	10	37
124060-01050	1	4
124060-77680	14	75

Parts No.	Fig. No.	Ref. No.
124101-49531	11	29
124160-01751	2	6
	4	35
124160-01910	1	6
	10	26
	4	47
124160-11360	10	41
124160-39140	16	23
124195-77770	2	7
124240-01871		19
	11	17
124395-49840	4	24
124460-11340	11	35
124465-44950		36
	8	16
124550-21600	16	24
124550-77030	11	40
124722-59050		43
	14	69
		72
124766-59050	15	5
		9
128170-14150	9	3
128300-77920	17	34
128401-77440	17	14
129001-01250	1	5
129001-02931	1	29
129004-03010	4	37
129004-11650	4	7
129004-11900	4	29
129004-42001	11	1
129004-42040	11	15
129004-49610	11	37
129004-49620	11	41
129004-49711	11	38
129004-49721	11	42
129004-55612	15	1
129005-03080	5	1
129005-11100	4	19
129005-22080	8	17
129005-22500	8	19
129005-22900	8	37
129005-22950	8	39
129005-59830	10	43
129008-51390	12	44
129008-51900	12	14
129008-51920	12	15
129008-77800	4	53
129051-77330	17	1
129052-77380	17	6

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129052-77422	17	9
129052-79260	17	20
129052-79270	17	21
129100-01580	3	1
		14
	8	2
129100-01640	3	15
129100-11112	4	20
129100-23910	8	34
129100-42051	11	3
129100-42121	11	4
129100-55690	15	16
129103-49301	10	34
129122-44480	10	30
129150-01200	1	26
129150-02020	1	8
129150-02450	7	4
129150-02871	1	32
129150-02931	1	23
129150-02941	1	35
129150-03070	4	38
129150-11230	4	8
129150-11280	4	6
129150-11370	4	12
129150-11750	4	10
129150-11810	4	56
129150-14101	7	6
129150-14200	7	1
129150-14400	7	2
129150-23601	8	32
129150-23611	8	35
129150-25301	7	14
129150-32020	10	13
129150-35042	10	17
129150-35111	10	28
129150-35153	10	49
129150-49811	11	28
129150-59120	14	42
129150-59131	14	45
		49
129150-77511	5	7
129155-51280	13	6
129155-61460	13	28
129202-22300	8	25
129211-77920	17	35
129236-03120	4	40 -1
129236-11360	4	36 -1
129242-77010	16	1
129242-77100	16	3
129242-77110	16	4

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Parts No.	Fig. No.	Ref. No.
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129242-77130	16	6
129242-77140	16	7
129242-77150	16	8
129242-77160	16	9
129242-77170	16	10
129242-77180	16	12
129242-77210	16	15
129242-77260	16	19
129242-77270	16	21
129242-77280	16	22
129255-61410	13	25
129400-28121	8	6
129400-28150	9	8
129403-42380	11	23
129407-01340	1	27
129407-12110	5	4
129407-32001	10	1
129410-03990	5	2
129411-13100	6	1
129423-77710	17	19
129457-28000	9	2
129457-28011	9	5
129457-34810	10	16
129457-49801	11	27
129484-26200	7	18
129484-26210	7	20
129486-01670	3	18
129486-42021	11	14
129486-42140	11	16
129486-59551	14	71
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129550-13110	6	2
129550-59120	14	46
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129558-33010	10	22
129558-35000	10	25
129558-49150	10	31
129558-49160	10	33
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129601-11251	4	2
129601-11310	4	44
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129630-59010	15	4
129652-21010	8	1
129657-01610	3	2
129657-01730	3	5
129657-21580	8	14
129657-35090	10	18
129657-77340	17	29
129698-77020	16	2
129698-77190	16	13
129698-77200	16	14
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129795-01780	3	17
129795-01900	17	2
129795-01950	2	8
129795-01960	9	1
129795-02412	1	11
129795-11120	4	21
129795-11180	4	22
129795-21661	8	11
129795-49551	11	30
129900-07900	4	50
129916-49740	11	10
129930-13201	6	7
129956-59010	15	8
129957-59101	15	10
129960-03990	10	21
129961-59110	15	6
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158552-51580	12	67
158552-51600	12	77
158552-51670	12	6
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158601-51650	12	5
158601-51770	12	102
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	10	44
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22351-030010	8	9
22351-050010	12	118
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23414-080000	11	18
23857-030000	10	45
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24311-000320	2	12
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24341-000240	2	23
24356-190180	12	121
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26106-080122	10	19
	11	19
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26106-080202	5	5
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26106-080252	3	10
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26106-080302	2	15
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26106-080352	4	33
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26106-100452	7	25
26206-100202	3	3
26226-080182	4	11
26306-080002	2	18
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26306-100002	17	36
26366-060002	10	48
26450-060252	10	14
26450-080282	7	26
26450-080452	12	125
26577-060142	11	13
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27241-300000	1	13
27241-400000	4	18
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