

0CD50-M01260EN

P R E F A C E

This parts catalog is the 1st edition of 3TNV88-BDTH for Thaler.

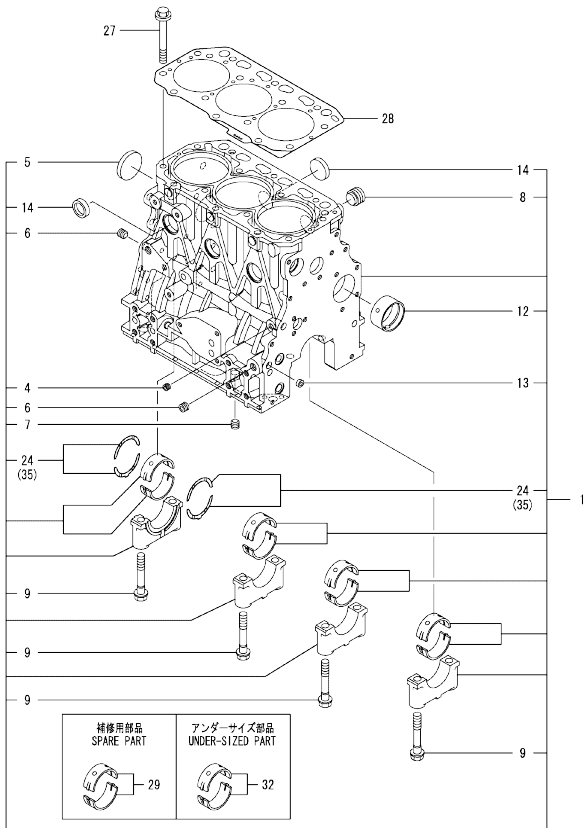
Published : May, 2015

Contents

0CD50-M01260

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNV88-BDTH			
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 PIPE		
15.	STARTER MOTOR		
16.	GENERATOR		

Fig.1. CYLINDER BLOCK



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

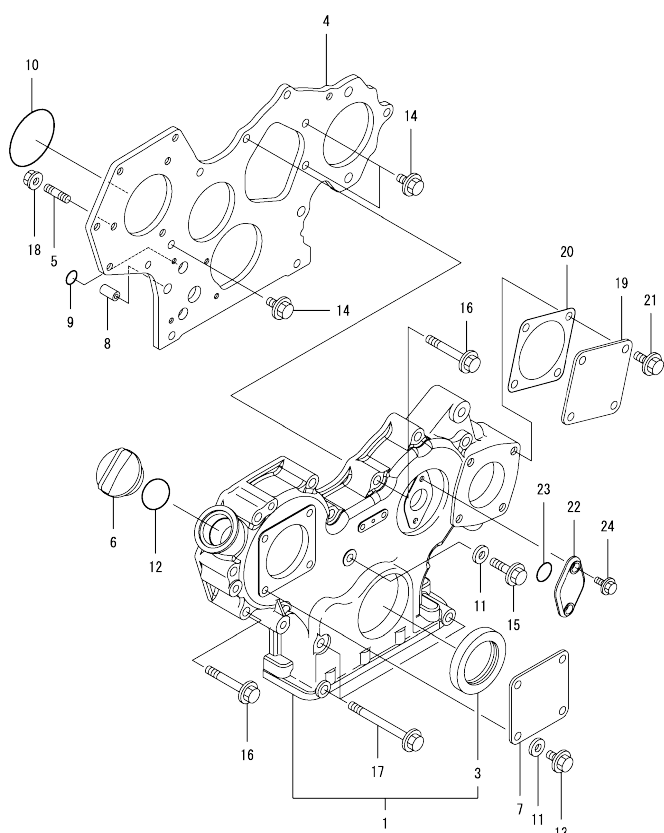
(A)=3TNV88-BDTH
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	129001-01250	PLUG, 50	1							
6	2	124160-01910	PLUG, PT1/4	2							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	171051-01921	PLUG, NPTF1	1							
9	2	129150-02020	BOLT, METAL CAP	8							
12	2	129795-02412	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	2							
14	2	27241-300000	PLUG 30	6							
24	2	129150-02931	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

(D)=
(E)=

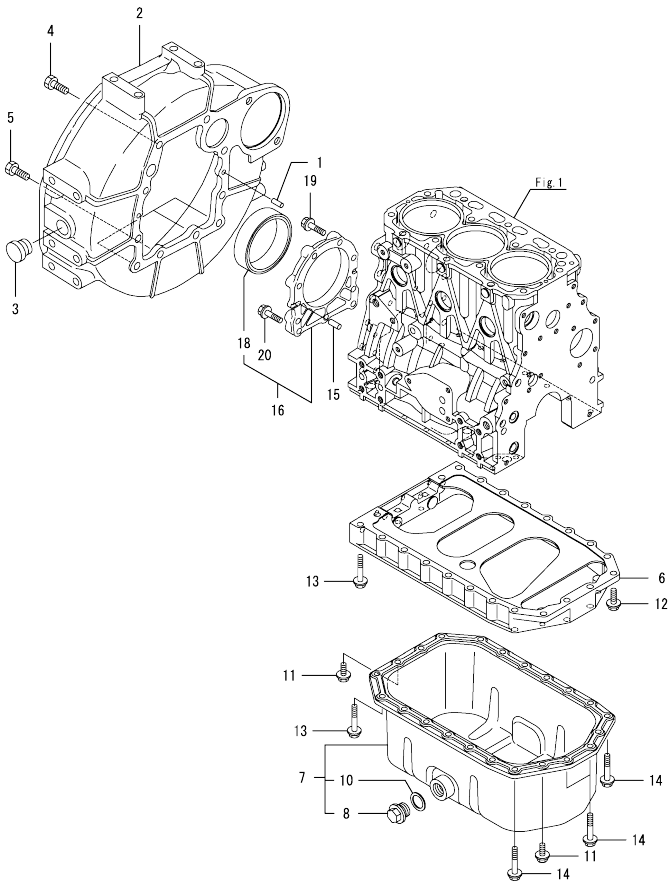


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729652-01500	CASE ASSY, GEAR	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	129604-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	COVER, FILLER	1							
7	1	124240-01871	COVER	1							
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
Copyright (C) 2015 YANMAR CO., LTD. All Rights Reserved.

OCD50-M01260 3TNV88-BDTH

Fig.3. FLYWHEEL HOUSING & OIL SUMP



OCD50-M01260 Fig.3

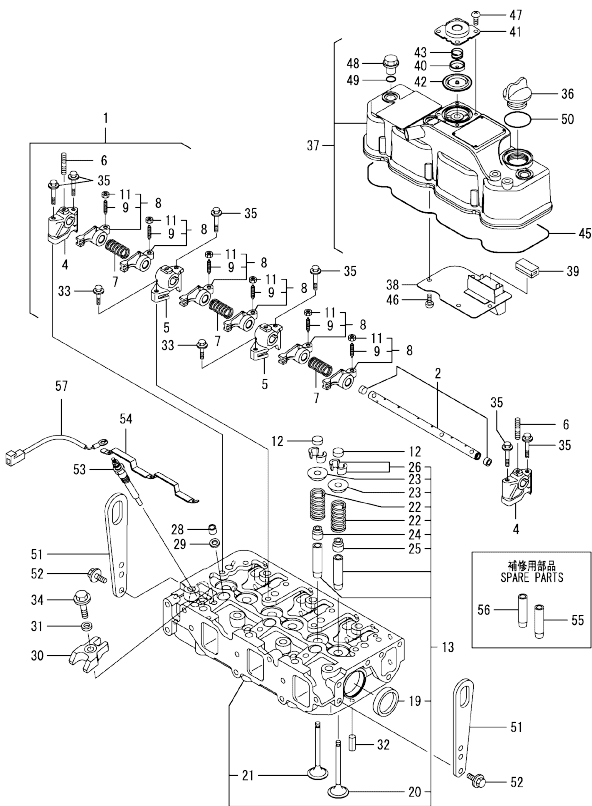
(A)=3TNV88-BDTH
(B)=
(C)=

(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	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	16							
14	1	26106-080502	BOLT, M8X 50 PLATED	4							
15	1	129100-01580	PIN, 8X16	2							
16	1	129100-01640	CASE ASSY, OIL SEAL	1							
18	2	129795-01780	SEAL, OIL	1							
19	1	129486-01670	BOLT, M8X30	6							
20	1	26106-080352	BOLT, M8X 35 PLATED	3							

OCD50-M01260 3TNV88-BDTH

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

OCD50-M01260 Fig.4

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

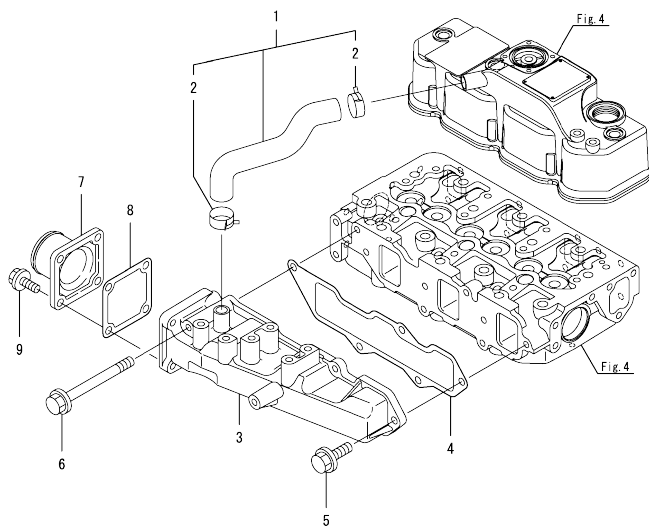
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-11241	SHAFT ASSY, ROCKER	1							
2	2	129004-11251	SHAFT, ROCKER ARM	1							
4	2	119802-11260	SUPPORT, ROCKER ARM	2							
5	2	119802-11270	SUPPORT, ROCKER ARM	2							
6	2	119802-11280	BOLT, STUD	3							
7	2	129150-11280	SPRING, SHAFT	3							
8	2	129004-11650	ARM ASSY, ROCKER	6							
9	3	129150-11230	SCREW, VALVE ADJUST	6							
11	3	129150-11750	NUT, M8X1.0	6							
12	1	129150-11370	CAP, VALVE	6							
13	1	129008-11710	HEAD ASSY, CYLINDER	1							
19	3	27241-400000	PLUG, 40	2							
20	2	129005-11100	VALVE, INTAKE	3							
21	2	129100-11112	VALVE, EXHAUST	3							
22	2	129795-11120	SPRING, VALVE	6							
23	2	129795-11180	RETAINER, SPRING	6							
24	2	121400-11340	SEAL, VALVE STEM	3							
25	2	124460-11340	SEAL, VALVE STEM	3							
26	2	27310-080001	COTTER, 8	6							
28	1	119802-11870	PROTECTOR, NOZZLE	3							
29	1	119625-11880	SEAT, NOZZLE	3							
30	1	129004-11900	RETAINER, NOZZLE	3							
31	1	120270-54410	WASHER, INJECTOR	3							
32	1	22351-060012	PIN, SPRING 6.0X12	2							
33	1	26106-080252	BOLT, M8X 25 PLATED	2							
34	1	26106-080352	BOLT, M8X 35 PLATED	3							
35	1	26106-080502	BOLT, M8X 50 PLATED	6							
36	1	124160-01751	CAP, FILLER	1							
37	1	129004-11350	BONNET ASSY, HEAD	1							
38	2	129004-03010	PLATE, BAFFLE	1							
39	2	129150-03070	BAFFLE, BREATHER	1							
40	2	119802-03110	PLATE, DIAPHRAGM	1							
41	2	119802-03121	COVER, DIAPHRAGM	1							
42	2	119802-03130	DIAPHRAGM, BREATHER	1							
43	2	119802-03141	SPRING, DIAPHRAGM	1							
45	2	129004-11310	GASKET, BONNET	1							
46	2	22857-500100	SCREW, 5X10	4							
47	2	22857-500100	SCREW, 5X10	4							
48	1	124160-11360	KNOB, BONNET	3							
49	1	24311-000120	O-RING, 1AP12.0	3							
50	1	24311-000320	O-RING, 1AP32.0	1							
51	1	129900-07900	LIFTER, ENGINE	2							
52	1	26106-080162	BOLT, M8X 16 PLATED	4							
53	1	129008-77800	PLUG, GLOW	3							
54	1	129008-77820	CONNECTOR, GLOW PLUG	1							
55	1	120130-11860	GUIDE, VALVE	3							1
56	1	129150-11810	GUIDE, VALVE	3							1
57	1	119803-77830	HARNES, WIRE	1							W

(A=EU6517)

N:Old $\frac{N_{Old}}{100}$ New, Q:Old $\frac{Q_{Old}}{100}$ New, R:Old $\frac{R_{Old}}{100}$ New, S:Old $\frac{S_{Old}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) 2015 YANMAR CO., LTD. All Rights Reserved.

Fig.5. SUCTION MANIFOLD



(D)=
(E)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-03080	PIPE , BREATHER	1							
2	2	129410-03990	CLIP,HOSE 21.5	2							
3	1	129004-12101	MANIFOLD, AIR INTAKE	1							
4	1	129001-12110	GASKET, MANIFOLD	1							
5	1	26106-080202	BOLT, M8X 20 PLATED	4							
6	1	26106-080802	BOLT, M8X 80 PLATED	1							
7	1	129486-12581	JOINT, MANIFOLD	1							
8	1	129150-77511	GASKET	1							
9	1	26106-080202	BOLT, M8X 20 PLATED	4							

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

Fig.6. EXHAUST MANIFOLD

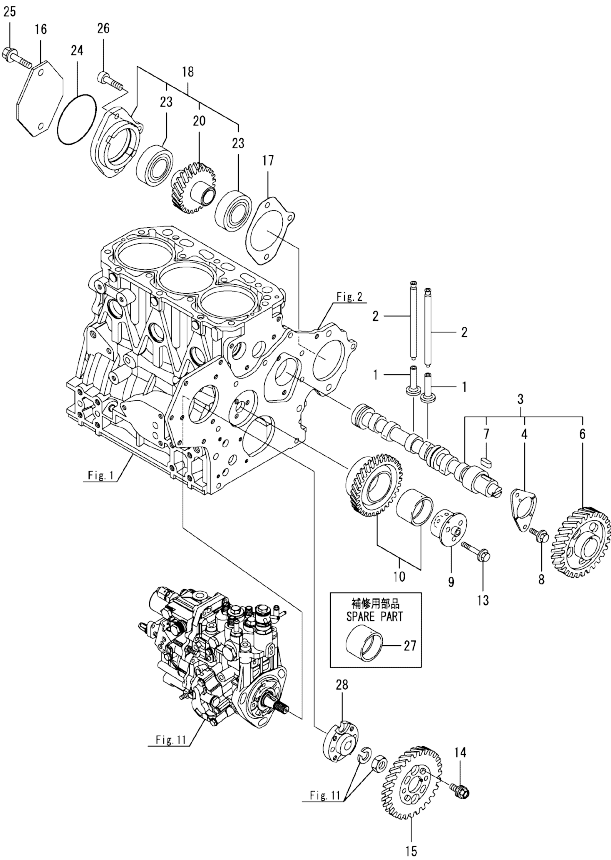
(D)=
(E)=

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

[illegible]

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

Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare parts.

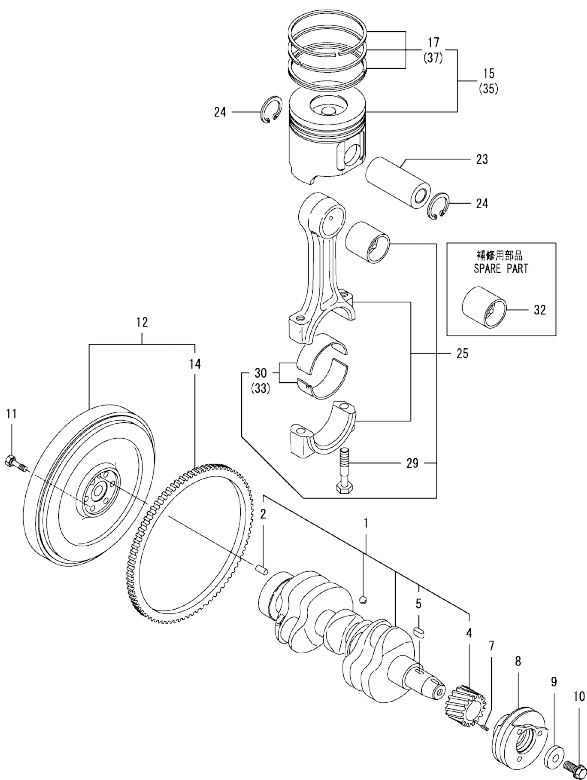
(A)=3TNV88-BDTH
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	129129-14580	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							

OCD50-M01260 3TNV88-BDTH

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-M01260 Fig.8

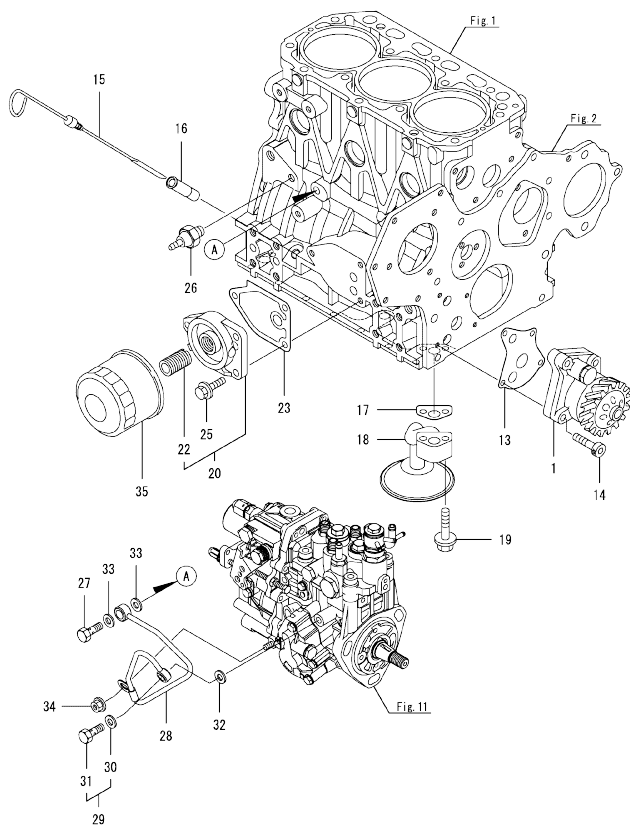
(A)=3TNV88-BDTH
(B)=
(C)=

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

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, 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	129004-21650	V-PULLEY, 110	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	129005-22080	PISTON ASSY	3							
17	2	129005-22500	RING SET, PISTON	3							
23	1	129202-22300	PIN, PISTON D26 L70	3							
24	1	22252-000260	RING, 26	6							
25	1	729402-23100	ROD ASSY, CONNECTING	3							
29	2	121550-23200	BOLT, CONNECTING ROD	6							
30	2	129150-23601	BEARING, CRANK PIN	3							
32	1	129100-23910	BEARING, PISTON PIN	3							1
33	1	129150-23611	BEARING, 0.25 US	3							2
35	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
37	2	129005-22950	RING SET, 0.25 OS	3							3

OCD50-M01260 3TNV88-BDTH

Fig.9. LUB. OIL SYSTEM



OCD50-M01260 Fig.9

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

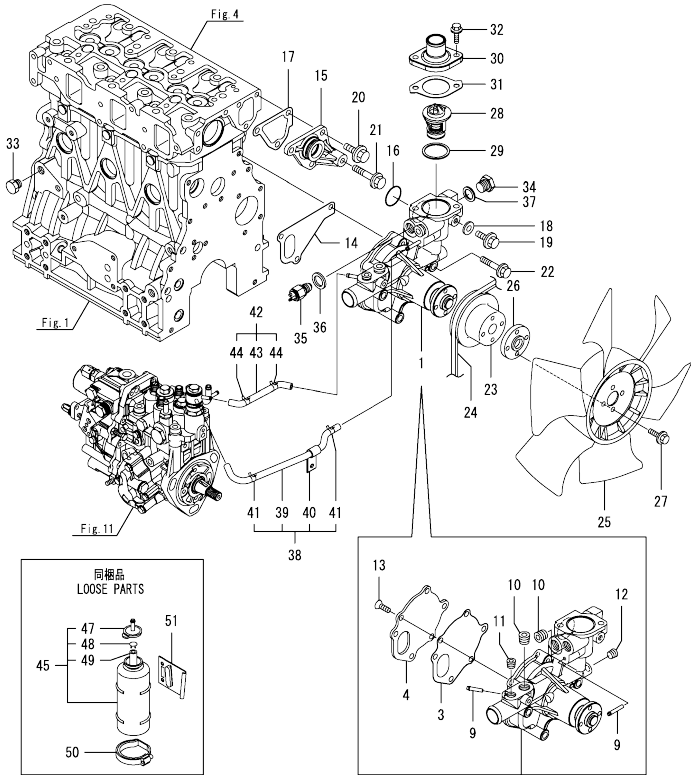
(D)=
(E)=
(F)=

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	129004-34802	DIPSTICK, OIL	1							
16	1	121520-34810	GUIDE, DIPSTICK	1							
17	1	129150-35042	GASKET	1							
18	1	129100-35301	PIPE ASSY, OIL INLET	1							
19	1	26106-080352	BOLT, M8X 35 PLATED	2							
20	1	119802-35100	BRACKET ASSY, FILTER	1							
22	2	129100-35140	STUD	1							
23	1	129150-35111	GASKET	1							
25	1	26106-080202	BOLT, M8X 20 PLATED	3							
26	1	114250-39450	SWITCH, 0.5KG	1							
27	1	124160-39140	BOLT, PIPE JOINT M10	1							
28	1	119802-39450	PIPE ASSY, OIL	1							
29	1	129005-59830	BOLT ASSY, JOINT M8	1							
30	2	22190-080002	WASHER, SEAL 8	1							
31	2	23857-030000	BOLT, JOINT 3	1							
32	1	22190-080002	WASHER, SEAL 8	1							
33	1	22190-100002	WASHER, SEAL 10	2							
34	1	26366-060002	NUT, M6	1							
35	1	129150-35153	FILTER	1							1

Remarks
(1)Spare parts.

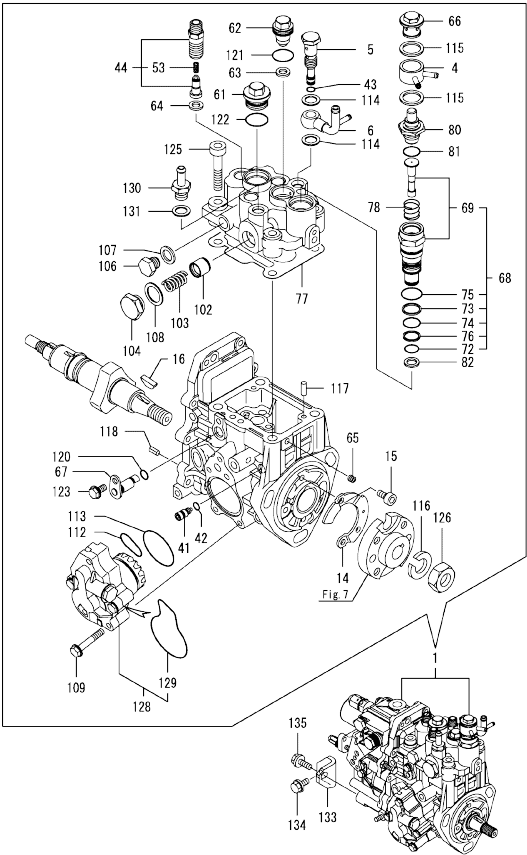
N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) 2015 YANMAR CO., LTD. All Rights Reserved.

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							
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	119865-42290	V-BELT, A36.5	1							
25	1	129030-44740	FAN, COOLING D360XUG	1							
26	1	124574-44761	SPACER, FAN	1							
27	1	26106-060202	BOLT, M6X 20 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71	1							
29	1	129150-49811	GASKET, THERMOSTAT	1							
30	1	129350-49530	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET	1							
32	1	26106-080222	BOLT, M8X 22 PLATED	2							
33	1	171056-49120	PLUG, DRAIN	1							
34	1	121450-42450	PLUG, M16	1							
35	1	121250-44901	SWITCH, 110	1							
36	1	124465-44950	GASKET, 16	1							
37	1	124465-44950	GASKET, 16	1							
38	1	129004-49610	PIPE ASSY, WATER	1							
39	2	129004-49711	PIPE ASSY, WATER	1							
40	2	119802-49730	RETAINER, PIPE	1							
41	2	124722-59050	CLIP, HOSE 9	2							
42	1	129004-49620	PIPE ASSY, WATER	1							
43	2	129004-49721	PIPE ASSY, WATER	1							
44	2	124722-59050	CLIP, HOSE 9	2							
45	1	124450-44510	TANK ASSY, SUB	1							
47	2	124450-44530	CAP	1							
48	2	124450-44560	RETAINER	1							
49	2	23061-070230	PIPE, 7X 230	1							
50	1	124450-44550	BAND	1							
51	1	121256-44600	BRACKET, SUB TANK	1							

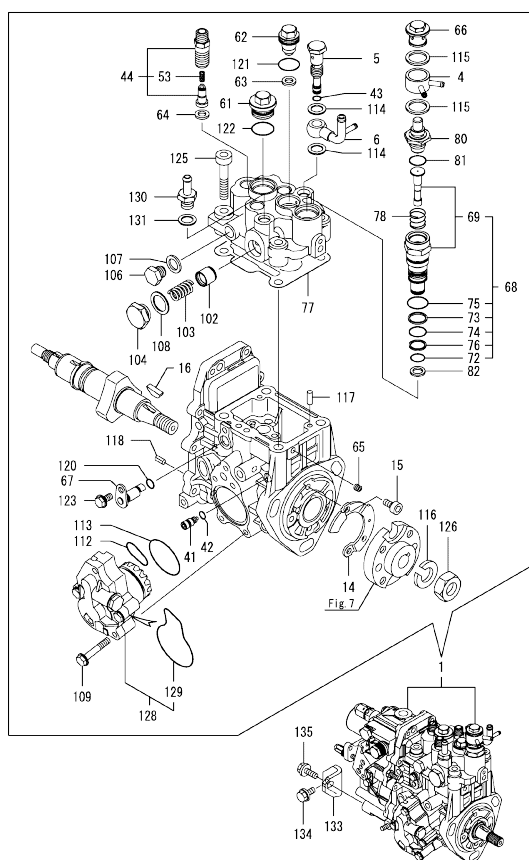
Fig.11. FUEL INJECTION PUMP



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

OCD50-M01260 Fig.11									
(A)=3TNV88-BDTH (D)= (E)= (F)=									
No. Lev. Parts No. Description Q'ty I R									
(A) (B) (C) (D) (E) (F)									
1	1	729285-51400	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					
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	3					
53	3	158563-51330	SPRING, DELIVERY	3					
61	2	158601-51550	PLUG	1					
62	2	119802-51560	PLUG, BARREL	1					
63	2	158552-51571	GASKET	1					
64	2	158552-51571	GASKET	3					
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					

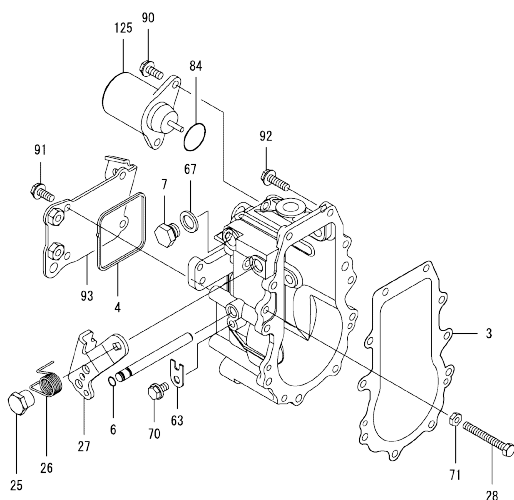
N:Old, New, Q:Old, New, R:Old, New, S:Old, New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
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							

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



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

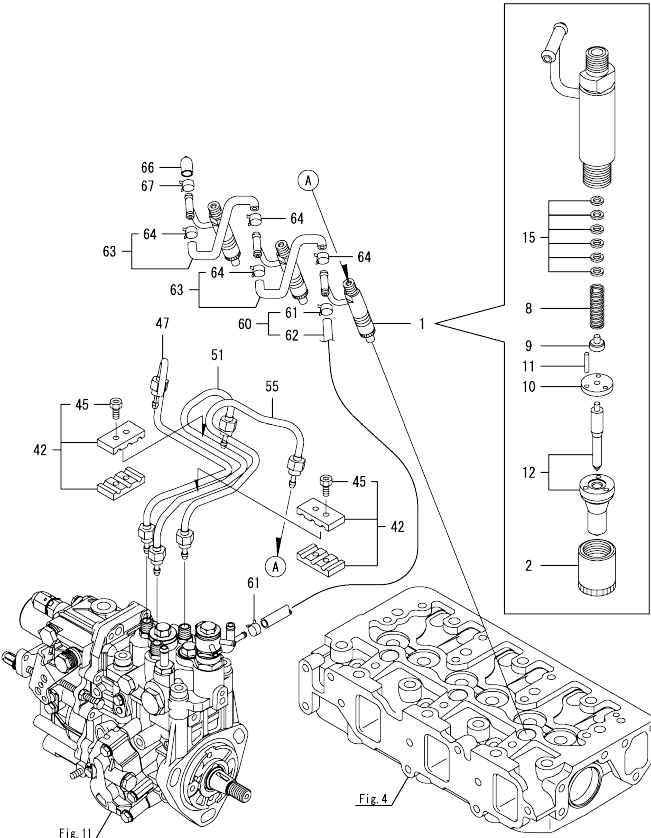
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	GASKET	1							
4	2	158553-61070	GASKET	1							
6	2	129155-51280	O-RING, S6	1							
7	2	158553-51930	PLUG, M12								
25	2	129255-61410	NUT, LOCK	1							
26	2	119807-61420	SPRING, RETURN	1							
27	2	158552-61441	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							

Fig.13. FUEL INJECTION VALVE

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

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

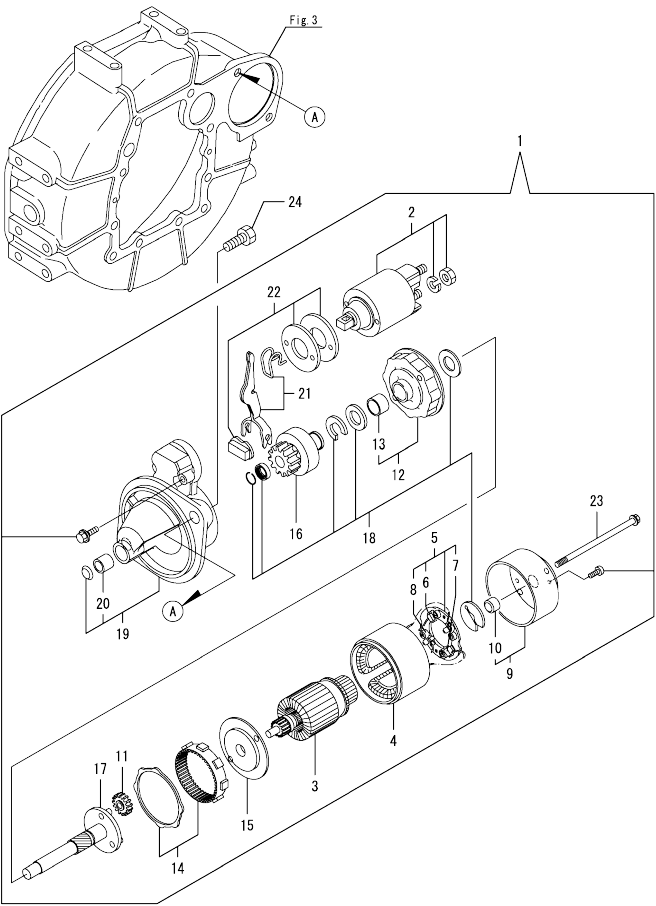
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53400	VALVE ASSY,INJECTION	3							
2	2	114250-53080	NUT, NOZZLE D16.95	3							
8	2	114250-53120	SPRING, NOZZLE	3							
9	2	114250-53130	SEAT, SPRING	3							
10	2	114250-53140	PLATE	3							
11	2	114250-53210	PIN	6							
12	2	129604-53300	VALVE ASSY,INJECTION	3							
15	2	119803-53400	SHIM SET	3							
42	1	129150-59120	RETAINER, PIPE	2							
45	2	129150-59131	BOLT, M4X14	4							
47	1	129004-59811	PIPE ASSY, INJECTION	1							
51	1	129004-59821	PIPE ASSY, INJECTION	1							
55	1	129004-59831	PIPE ASSY, INJECTION	1							
60	1	119802-59550	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							





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 11.5	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 11.5	2							
10	2	129961-59110	TUBE, CORRUGATED	1							
11	2	105025-59580	PIPE, FUEL	1							
12	1	121750-59890	BAND, 140	1							
15	1	114110-07761	LABEL, FUEL OIL CAUT	1							
16	1	119225-52102	PUMP ASSY, FUEL FEED	1							
17	1	129242-55701	SEPARATOR ASSY	1							
18	2	129242-55720	CUP	1							
19	2	129242-55730	ELEMENT	1							
20	2	129242-55740	PLUG, DRAIN	1							
21	2	129242-55750	VALVE, AIR VENT	1							
22	2	129242-55760	GASKET	1							
23	2	129242-55770	FLOAT	1							
24	2	24311-000160	O-RING, 1AP16.0	1							
25	2	24321-000750	O-RING, 1AG75.0	1							

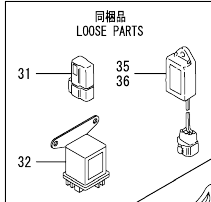
Fig.15. STARTER MOTOR



(A)=3TNV88-BDTH
(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	26116-120202	BOLT, M12X 20 PLATED	2							



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129795-01900	STUD	1							
2	1	119626-77210	ALTERNATOR, 12V-55A	1							
3	2	X9490561001	NUT	1							
4	2	129052-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER	1							
7	2	129052-77422	FRAME ASSY	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	128401-77440	FRAME	1							
13	2	119626-77450	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	129052-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	2	119620-79290	SCREW	6							
21	2	119620-79300	SCREW	1							
22	2	119620-79310	BOLT	3							
23	2	119620-79320	SCREW	2							
24	2	119620-79330	BOLT	2							
25	2	119620-79340	BUSH, INSULATION	1							
26	2	119620-79350	NUT	2							
27	1	26306-100002	NUT, M10	1							
28	1	129064-77330	ADJUSTER	1							
29	1	129067-77340	SPACER	1							
30	1	129972-77341	BOLT, ADJUSTER L=50	1							
31	1	119643-66900	DIODE	1							
32	1	119650-77911	RELAY ASSY, GLOW	1							
35	1	128300-77920	TIMER	1							
36	1	129211-77920	TIMER	1							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59580	14	11
114110-07761	14	15
114250-39450	9	26
114250-53080	13	2
114250-53120	13	8
114250-53130	13	9
114250-53140	13	10
114250-53210	13	11
118400-77170	15	11
119131-18320	6	5
119225-52102	14	16
119593-59581	13	66
119609-32040	2	9
119620-01750	3	3
119620-77461	16	14
119620-77471	16	15
119620-77490	16	16
119620-79200	16	8
119620-79210	16	9
119620-79220	16	10
119620-79230	16	11
119620-79250	16	6
119620-79290	16	20
119620-79300	16	21
119620-79310	16	22
119620-79320	16	23
119620-79330	16	24
119620-79340	16	25
119620-79350	16	26
119625-11880	4	29
119626-77210	16	2
119626-77450	16	13
119640-01640	3	8
119643-66900	16	31
119650-77911	16	32
119653-77950	12	125
119660-61901	12	63
119802-01561	2	5
119802-03110	4	40
119802-03121	4	41
119802-03130	4	42
119802-03141	4	43
119802-11260	4	4
119802-11270	4	5
119802-11280	4	6
119802-11870	4	28
119802-25071	7	27
119802-25101	7	10
119802-25901	7	15
119802-35100	9	20

Parts No.	Fig. No.	Ref. No.
119802-39450	9	28
119802-49113	10	9
119802-49730	10	40
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
119802-55801	14	2
119802-59550	13	60
119802-59560	13	62
119803-21200	8	4
119803-25050	7	9
119803-53400	13	15
119803-77830	4	57
119807-61420	12	26
119865-21600	8	14
119865-42290	10	24
119934-01800	2	3
119934-59910	11	130
120130-11860	4	55
120270-54410	4	31
121023-01551	2	22
121023-26071	7	16
121111-21501	8	11
121250-44901	10	35
121256-44600	10	51
121400-11340	4	24
121450-42450	10	34
121520-34810	9	16
121550-23200	8	29
121750-59890	14	12
121850-21680	8	10
121850-51960	2	10
123501-79240	16	5
123900-13610	6	3
124060-01050	1	4
124060-77680	13	67
124160-01751	2	6
	4	36
124160-01910	1	6
	7	
124160-11360	4	48
124160-39140	9	27
124195-77770	15	23
124240-01871	2	7
	19	
124395-49840	10	17

Parts No.	Fig. No.	Ref. No.
124450-44510	10	45
124450-44530	10	47
124450-44550	10	50
124450-44560	10	48
124460-11340	4	25
124465-44950	10	36
	37	
124574-44761	10	26
124722-59050	10	41
	44	
	13	61
	64	
124766-59050	14	5
	9	
128300-77920	16	35
128401-77440	16	12
129001-01250	1	5
129001-01340	1	28
129001-02931	1	29
129001-12110	5	4
129001-32002	9	1
129004-03010	4	38
129004-03080	5	1
129004-11241	4	1
129004-11251	4	2
129004-11310	4	45
129004-11350	4	37
129004-11650	4	8
129004-11900	4	30
129004-12101	5	3
129004-13200	6	7
129004-21650	8	8
129004-34802	9	15
129004-42001	10	1
129004-42040	10	15
129004-49610	10	38
129004-49620	10	42
129004-49711	10	39
129004-49721	10	43
129004-55612	14	1
129004-59811	13	47
129004-59821	13	51
129004-59831	13	55
129005-11100	4	20
129005-22080	8	15
129005-22500	8	17
129005-22900	8	35
129005-22950	8	37
129005-59830	9	29
129008-11710	4	13

Parts No.	Fig. No.	Ref. No.
129008-21000	8	1
129008-51390	11	44
129008-51900	11	14
129008-51920	11	15
129008-77800	4	53
129008-77820	4	54
129030-44740	10	25
129044-59010	14	4
129044-59100	14	6
129044-59510	14	7
129052-77380	16	4
129052-77422	16	7
129052-79260	16	18
129052-79270	16	19
129064-77330	16	28
129067-77340	16	29
129100-01580	3	1
	15	
	8	2
129100-01640	3	16
129100-01730	3	6
129100-01760	3	7
129100-11112	4	21
129100-23910	8	32
129100-35140	9	22
129100-35301	9	18
129100-42051	10	3
129100-42121	10	4
129129-14580	7	3
129150-01200	1	27
129150-02020	1	9
129150-02450	7	4
129150-02871	1	32
129150-02931	1	24
129150-02941	1	35
129150-03070	4	39
129150-11230	4	9
129150-11280	4	7
129150-11370	4	12
129150-11750	4	11
129150-11810	4	56
129150-13110	6	2
129150-14101	7	6
129150-14200	7	1
129150-14400	7	2
129150-23601	8	30
129150-23611	8	33
129150-25301	7	14
129150-32020	9	13
129150-35042	9	17

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129150-35111	9	23
129150-35153	9	35
129150-49811	10	29
129150-59120	13	42
129150-59131	13	45
129150-77511	5	8
129155-49801	10	28
129155-51280	12	6
129155-61460	12	28
129202-22300	8	23
129211-77920	16	36
129242-55701	14	17
129242-55720	14	18
129242-55730	14	19
129242-55740	14	20
129242-55750	14	21
129242-55760	14	22
129242-55770	14	23
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
129255-61410	12	25
129350-49530	10	30
129403-42380	10	23
129410-03990	5	2
129423-77710	16	17
129484-26200	7	18
129484-26210	7	20
129486-01670	3	19
129486-12581	5	7
129486-42021	10	14
129486-42140	10	16
129486-59551	13	63
129604-01520	2	4
129604-53300	13	12
129612-01600	3	2
129698-77020	15	2
129698-77190	15	13
129698-77200	15	14

Parts No.	Fig. No.	Ref. No.
129698-77220	15	16
129698-77230	15	17
129698-77250	15	18
129795-01780	3	18
129795-01900	16	1
129795-01950	2	8
129795-02412	1	12
129795-11120	4	22
129795-11180	4	23
129795-21661	8	9
129795-49551	10	31
129900-07900	4	51
129916-49740	10	10
129950-59311	14	8
129961-59110	14	10
129972-77341	16	30
129C26-01890	2	20
129E00-13640	6	4
158552-51151	7	28
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
158552-61061	12	93
158552-61441	12	27
158552-61900	12	84
158553-51551	11	4
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

Parts No.	Fig. No.	Ref. No.
158601-51650	11	5
158601-51770	11	102
158601-51790	11	104
171051-01921	1	8
171056-49120	10	33
171340-21580	8	12
171350-13100	6	1
171353-26081	7	17
22190-080002	2	11
	9	30
		32
22190-100002	9	33
22190-120002	11	107
		114
		131
	12	67
22190-180002	11	108
		115
22190-220002	3	10
22217-140000	11	116
22252-000260	8	24
22312-050140	11	117
22351-030010	8	7
22351-050010	11	118
22351-060012	4	32
22512-070140	7	7
	8	5
22857-500100	4	46
		47
23061-070230	10	49
23414-080000	10	18
23857-030000	9	31
23875-020000	10	11
23876-010000	10	12
24105-060064	7	23
24311-000070	11	120
24311-000120	4	49
24311-000160	14	24
24311-000320	2	12
	4	50
24321-000750	14	25
24321-000850	7	24
24341-000240	2	23
24356-190180	11	121
24356-190200	11	75
		122
24372-000150	11	76
26106-060102	11	123
	12	70
26106-060142	12	90

Parts No.	Fig. No.	Ref. No.
26106-060142	12	91
26106-060162	2	24
26106-060202	10	27
	12	92
26106-080122	10	19
26106-080142	7	8
26106-080162	2	13
		14
		21
	3	11
	4	52
	10	20
	11	134
26106-080202	5	5
		9
		25
	11	135
26106-080222	10	32
26106-080252	3	12
	4	33
26106-080302	2	15
	14	3
26106-080352	3	20
	4	34
	9	19
26106-080402	7	13
26106-080452	3	13
	10	21
26106-080502	3	14
	4	35
26106-080552	2	16
26106-080602	10	22
26106-080802	5	6
26106-080852	2	17
26106-100452	7	25
26116-120202	15	24
26206-100252	3	4
26206-100302	3	5
26306-080002	2	18
	6	6
26306-100002	16	27
26366-060002	9	34
26450-060252	9	14
26450-080282	7	26
26450-080452	11	125
26577-060142	10	13
26756-060002	12	71
26776-140002	11	126
27241-120000	1	13
27241-300000	1	14

Parts No. Index

Parts No.	Fig. No.	Ref. No.
27241-400000	4	19
27310-080001	4	26
729005-01560	1	1
729285-51400	11	1
729402-23100	8	25
729604-53400	13	1
729652-01500	2	1
X2114535200	15	20
X9490561001	16	3

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

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

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