

0CD50-M06090EN

Introduction

1. This parts catalog is the first edition of 3TNV88-BDTR for Toro Company.

	Date of issue	Remarks
First edition	Jun., 2020	

2. This parts catalog does not contain the technical data needed for maintenance service.

3. The illustrations used in this parts catalog have been simplified for clarity.

4. The contents of this parts catalog are subject to change without notice.

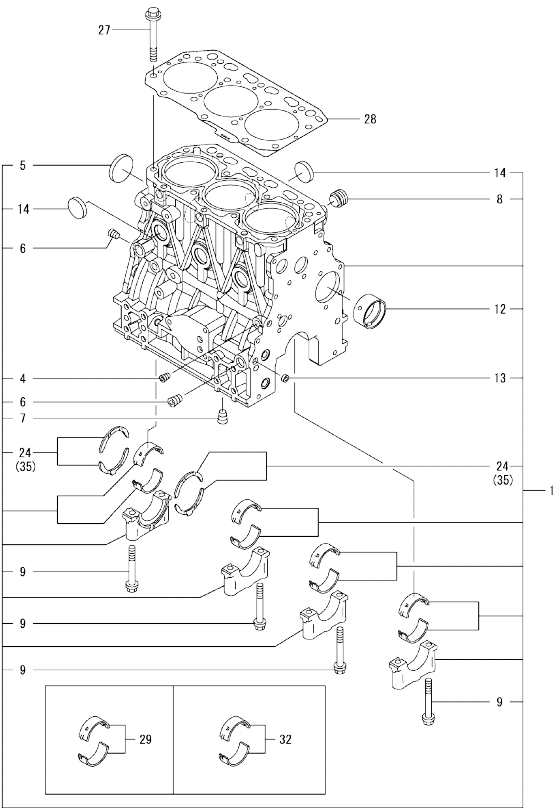
5. Be sure to use only Yanmar genuine parts for repairs. If imitation parts are used, it may cause engine defects.

Contents

0CD50-M06090

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNV88-BDTR			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	MOUNTING FLANGE & 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		
17.	ACCESSORY		

Fig.1. CYLINDER BLOCK



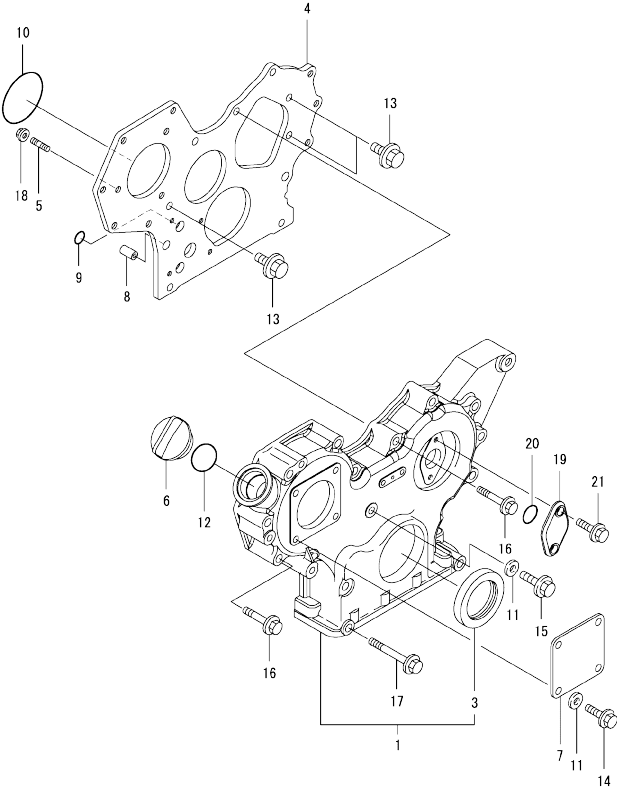
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

(A)=3TNV88-BDTR
(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	METAL ASSY, THRUST	2							
27	1	129150-01200	BOLT, CYLINDER HEAD	14							
28	1	129001-01340	GASKET, HEAD	1							
29	1	129001-02931	METAL ASSY, MAIN	4							1
32	1	129150-02871	METAL ASSY, MAIN .25	4							2
35	1	129150-02941	METAL ASSY, 0.25 OS	1							3

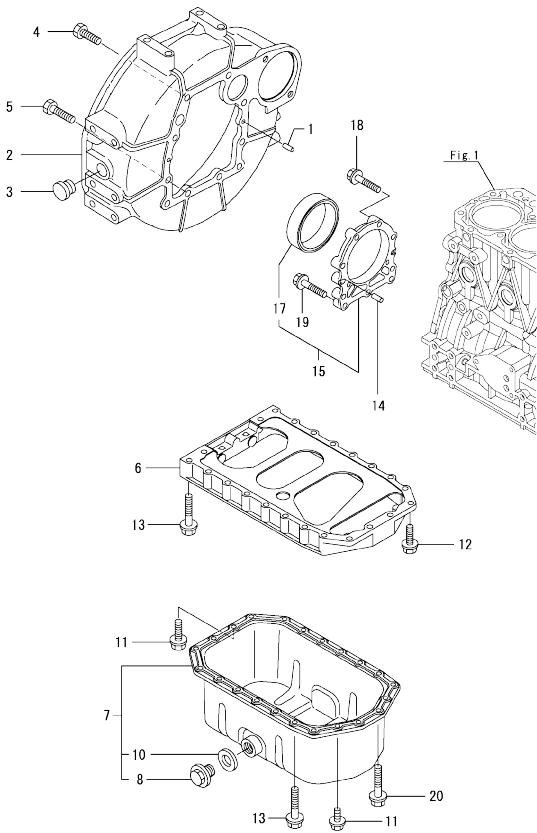
OCD50-M06090 3TNV88-BDTR
Fig.2. GEAR HOUSING



				OCD50-M06090 Fig.2						
				(A)=3TNV88-BDTR						
				(D)=						
				(E)=						
				(F)=						
				Q'ty						
				I R						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	
1	1	719803-01500	CASE ASSY, GEAR	1						
3	2	119934-01800	SEAL, OIL	1						
4	1	119803-01520	FLANGE, GEAR CASE	1						
5	1	119802-01561	STUD, M8X25	3						
6	1	124160-01751	CAP, FILLER	1						
7	1	124240-01871	COVER, HYDRAULIC PUMP	1						
8	1	129795-01950	PIPE, KNOCK L=18	2						
9	1	119609-32040	O-RING, P16	2						
10	1	121850-51960	O-RING, FUEL PUMP	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	26106-080162	BOLT, M8X 16 PLATED	4						
15	1	26106-080302	BOLT, M8X 30 PLATED	1						
16	1	26106-080552	BOLT, M8X 55 PLATED	12						
17	1	26106-080852	BOLT, M8X 85 PLATED	3						
18	1	26306-080002	NUT, M8	3						
19	1	121023-01551	COVER, TACHOMETER	1						
20	1	24341-000240	O-RING, 1AS24.0	1						
21	1	26106-060162	BOLT, M6X 16 PLATED	2						

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Fig.3. MOUNTING FLANGE & OIL SUMP



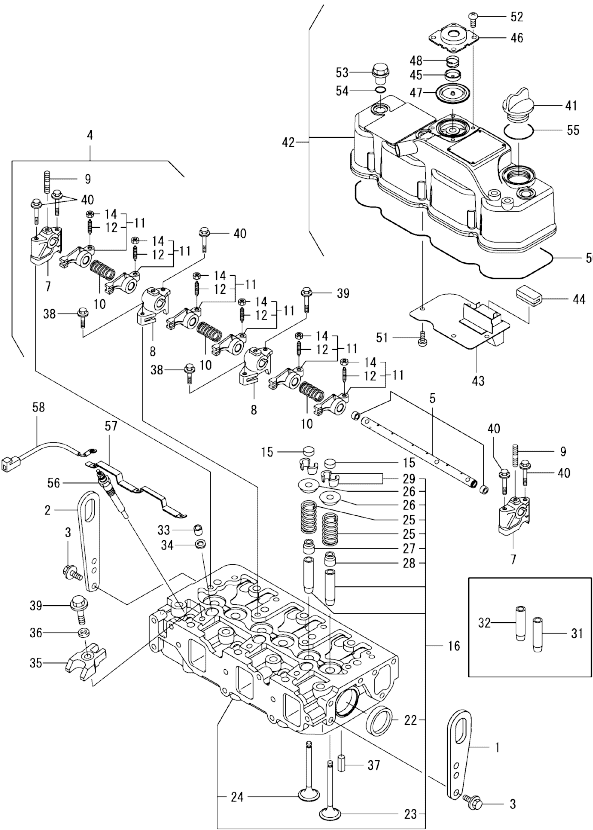
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP, WHEEL COVER	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL PAN	1							
7	1	129100-01760	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	4							
12	1	26106-080252	BOLT, M8X 25 PLATED	2							
13	1	26106-080452	BOLT, M8X 45 PLATED	16							
14	1	129100-01580	PIN, PARALLEL 8X16	2							
15	1	129648-01600	CASE ASSY, OIL SEAL	1							
17	2	129648-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	6							
19	1	26106-080352	BOLT, M8X 35 PLATED	3							
20	1	26106-080502	BOLT, M8X 50 PLATED	4							

OCD50-M06090 3TNV88-BDTR

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

OCD50-M06090 Fig.4

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

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

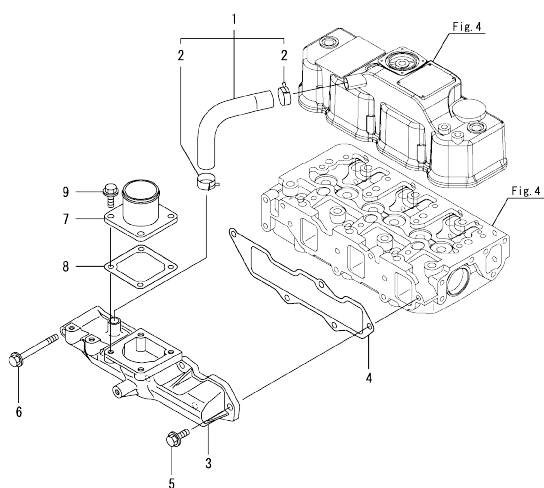
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119226-07900	LIFTER, ENGINE	1							
2	1	129900-07900	LIFTER, ENGINE	1							
3	1	26106-080162	BOLT, M8X 16 PLATED	4							
4	1	129004-11241	SHAFT ASSY,ROCKER	1							
5	2	129004-11251	SHAFT, ROCKER ARM	1							
7	2	119802-11260	SUPPORT,ROCKER ARM	2							
8	2	119802-11270	SUPPORT,ROCKER ARM	2							
9	2	119802-11280	BOLT, STUD	3							
10	2	129150-11280	SPRING, SHAFT	3							
11	2	129004-11650	ARM ASSY,ROCKER	6							
12	3	129150-11230	SCREW, VALVE ADJUST	6							
14	3	129150-11750	NUT, M8XP1.0	6							
15	1	129150-11370	CAP, VALVE	6							
16	1	129008-11710	HEAD ASSY, CYLINDER	1							
22	2	27241-400000	PLUG, 40	2							
23	2	129005-11100	VALVE, INTAKE	3							
24	2	129100-11112	VALVE, EXHAUST	3							
25	2	129795-11120	SPRING, VALVE	6							
26	2	129795-11180	RETAINER, SPRING	6							
27	2	121400-11340	SEAL, VALVE STEM	3							
28	2	124460-11340	SEAL, VALVE STEM	3							
29	2	27310-080001	COTTER, 8	6							
31	1	120130-11860	GUIDE, VALVE	3							1
32	1	129150-11810	GUIDE, VALVE	3							1
33	1	119802-11870	PROTECTOR, NOZZLE	3							
34	1	119625-11880	SEAT, NOZZLE	3							
35	1	129004-11900	RETAINER, NOZZLE	3							
36	1	120270-54410	WASHER, INJECTOR	3							
37	1	22351-060012	PIN, SPRING 6.0X12	2							
38	1	26106-080252	BOLT, M8X 25 PLATED	2							
39	1	26106-080352	BOLT, M8X 35 PLATED	3							
40	1	26106-080502	BOLT, M8X 50 PLATED	6							
41	1	124160-01751	CAP, FILLER	1							
42	1	129236-11350	BONNET ASSY	1							
43	2	129004-03010	PLATE, BAFFLE	1							
44	2	129150-03070	BAFFLE, BREATHER	1							
45	2	119802-03110	PLATE, DIAPHRAGM	1							
46	2	129236-03120	COVER, DIAPHRAGM	1							
47	2	119802-03130	DIAPHRAGM, BREATHER	1							
48	2	119802-03141	SPRING, DIAPHRAGM	1							
50	2	129004-11310	GASKET, BONNET	1							
51	2	22857-500100	SCREW, 5X10	4							
52	2	22857-500100	SCREW, 5X10	4							
53	1	124160-11360	KNOB, BONNET	3							
54	1	24311-000120	O-RING, 1AP12.0	3							
55	1	24311-000320	O-RING, 1AP32.0	1							
56	1	129008-77800	PLUG, GLOW	3							
57	1	129008-77820	CONNECTOR, GLOW PLUG	1							
58	1	119803-77830	HARNES, WIRE	1							

N:Old $\frac{NBS}{100}$ New, O:Old $\frac{HIS}{100}$ New, R:Old $\frac{HIS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD

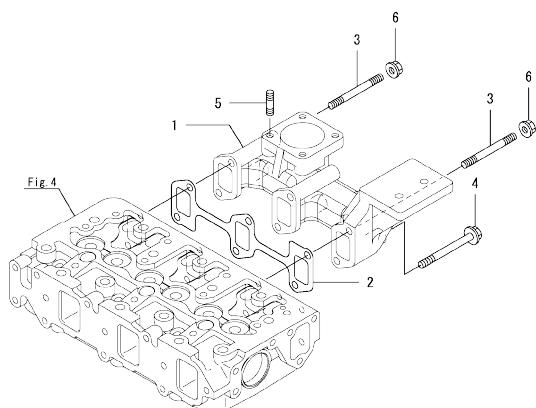
(D)=
(E)=

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

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N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.6. EXHAUST MANIFOLD



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

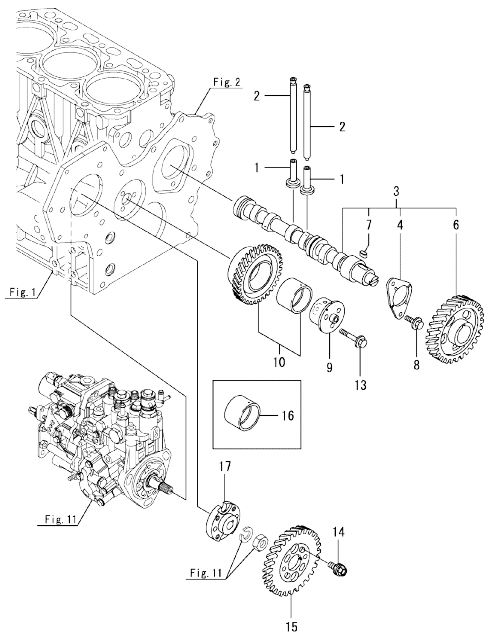
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129004-13110	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET, MANIFOLD	1							
3	1	123900-13610	STUD, M8X80	2							
4	1	129E00-13640	BOLT, M8X80 10.9T	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	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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OCD50-M06090 3TNV88-BDTR

Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Spare parts.

OCD50-M06090 Fig.7

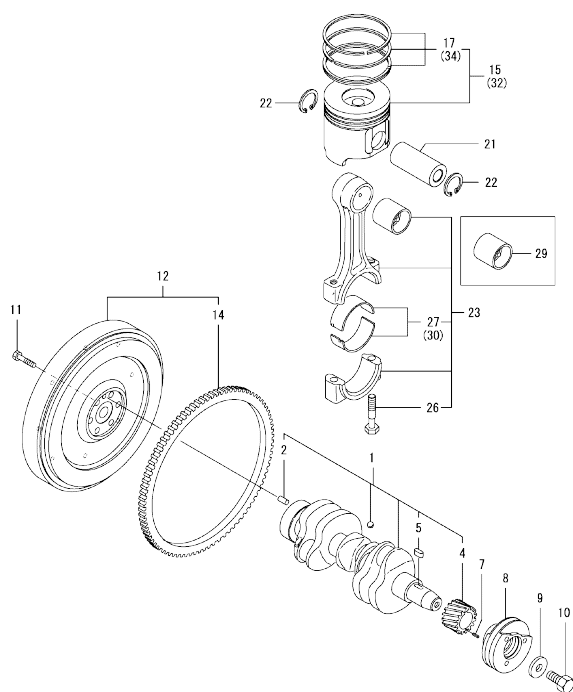
(A)=3TNV88-BDTR
(B)=
(C)=

(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	METAL, 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 GEAR	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	26106-080402	BOLT, M8X 40 PLATED	3							
14	1	129150-25301	BOLT, INJECTION PUMP	4							
15	1	119802-25901	GEAR, PUMP	1							
16	1	119802-25071	BUSH, IDLE GEAR	1							1
17	1	158552-51151	FLANGE, CAMSHAFT	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{YES}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.8. CRANKSHAFT & PISTON



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

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

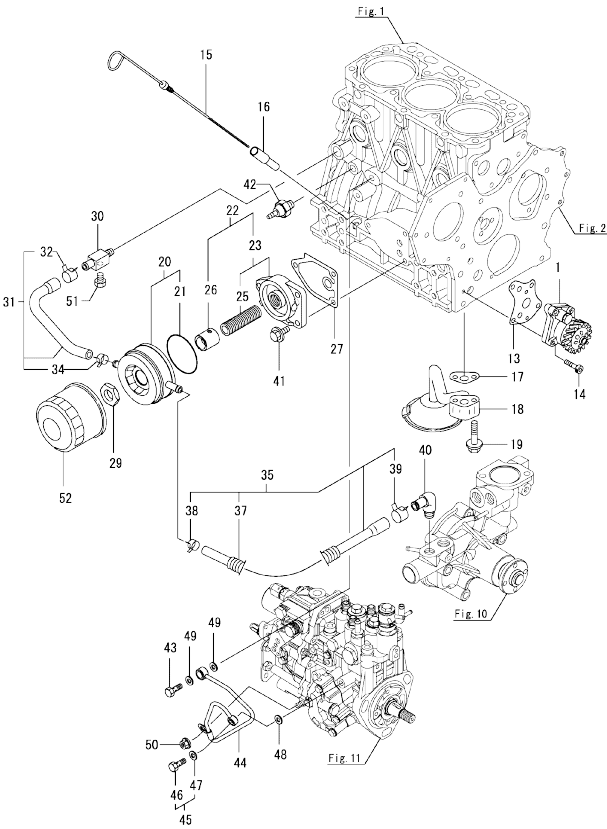
(A)=3TNV88-BDTR
(B)=
(C)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129008-21000	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	129004-21650	V-PULLEY, CRANKSHAFT	1							
9	1	129795-21661	WASHER, 14	1							
10	1	121850-21680	BOLT, V-PULLEY	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171340-21580	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING Z=116	1							
15	1	129005-22080	PISTON ASSY	3							
17	2	129005-22500	RING SET, PISTON	3							
21	1	129202-22300	PIN, PISTON D26 L70	3							
22	1	22252-000260	RING, 26	6							
23	1	729402-23100	ROD ASSY, CONNECTING	3							
26	2	121550-23200	BOLT, CONNECTING ROD	6							
27	2	129150-23601	METAL ASSY, CRANK PIN	3							
29	1	129100-23910	METAL, PISTON PIN	3							
30	1	129150-23611	METAL, CRANK PIN .25	3							1
32	1	129005-22900	PISTON ASSY, 0.25 OS	3							3
34	2	129005-22950	RING SET, PISTON .25	3							3

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

OCD50-M06090 3TNV88-BDTR

Fig.9. LUB. OIL SYSTEM



OCD50-M06090 Fig.9

(A)=3TNV88-BDTR
(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, INLET PIPE	1							
18	1	129100-35301	PIPE ASSY, OIL INLET	1							
19	1	26106-080352	BOLT, M8X 35 PLATED	2							
20	1	129508-33031	COOLER ASSY, OIL	1							
21	2	129508-33060	GASKET, COOLER	1							
22	1	129508-35100	BRACKET ASSY, LO FILT	1							
23	2	129006-35100	BRACKET ASSY, FILTER	1							
25	3	129417-35150	STUD, M20X67	1							
26	2	129508-35150	COLLAR, OIL-COOLER	1							
27	1	129150-35111	GASKET, BRACKET	1							
29	1	124085-35350	NUT, M20	1							
30	1	129006-44480	JOINT, R02	1							
31	1	129508-49030	HOSE ASSY, COOLER IN	1							
32	2	171008-03990	CLAMP, HOSE 18.5	1							
34	2	23080-015000	CLAMP, 15	1							
35	1	129006-49040	HOSE ASSY, COOLER OUT	1							
37	2	129642-49180	TUBE, CORRUGATED 19	1							
38	2	23080-015000	CLAMP, 15	1							
39	2	171008-03990	CLAMP, HOSE 18.5	1							
40	1	129103-49301	ELBOW, PT1/4	1							
41	1	26106-080202	BOLT, M8X 20 PLATED	3							
42	1	114250-39450	SWITCH, HYDRAULIC	1							
43	1	124160-39140	BOLT, PIPE JOINT M10	1							
44	1	119802-39450	PIPE ASSY, OIL	1							
45	1	129005-59830	BOLT ASSY, JOINT M8	1							
46	2	23857-030000	BOLT, JOINT 3	1							
47	2	22190-080002	WASHER, SEAL 8	1							
48	1	22190-080002	WASHER, SEAL 8	1							
49	1	22190-100002	WASHER, SEAL 10	2							
50	1	26366-060002	NUT, M6	1							
51	1	171056-49120	PLUG, DRAIN R1/4	1							
52	1	119005-35151-Z	FILTER, LUB.OIL	1							1

Remarks
(1)Spare parts.

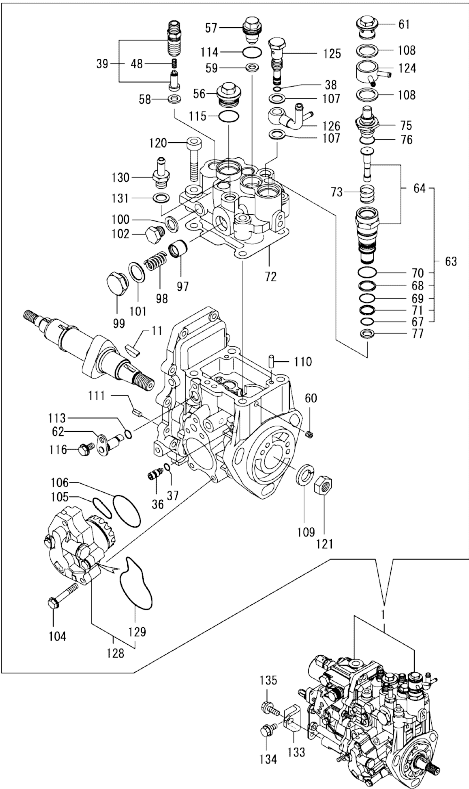
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Fig.10. COOLING WATER SYSTEM

(A)=3TNV88-BDTR
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42002	PUMP ASSY, CW	1							
3	2	129100-42051	GASKET, WATER PUMP	1							
4	2	129100-42121	PLATE, PUMP	1							
9	2	119802-49113	JOINT, PIPE	2							
10	2	23875-030000	PLUG, R03	2							
11	2	23875-020000	PLUG, R02	1							
12	2	23876-010000	PLUG, R01	1							
13	2	129150-42290	SCREW, FLAT M6X15	3							
14	1	129486-42021	GASKET, WATER PUMP	1							
15	1	129004-42040	JOINT, WATER PIPE	1							
16	1	129486-42140	O-RING, G30	1							
17	1	124395-49840	GASKET, THERMOSTAT	1							
18	1	23414-080000	GASKET, 8X1.0	1							
19	1	26106-080122	BOLT, M8X 12 PLATED	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	3							
21	1	26106-080452	BOLT, M8X 45 PLATED	1							
22	1	26106-080602	BOLT, M8X 60 PLATED	3							
23	1	129556-42350	V-PULLEY, PUMP	1							
24	1	25152-003800	V-BELT, A38	1							
25	1	129120-44741	FAN, COOLING D=360	1							
26	1	124574-44761	SPACER, FAN 8MM	1							
27	1	26106-060202	BOLT, M6X 20 PLATED	4							
28	1	129155-49801	THERMOSTAT, 71C	1							
29	1	129150-49811	GASKET, THERMOSTAT	1							
30	1	129350-49530	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET, COVER	1							
32	1	26106-080222	BOLT, M8X 22 PLATED	2							
33	1	26106-060122	BOLT, M6X 12 PLATED	1							
34	1	121450-42450	PLUG, M16	1							
35	1	124250-49351	SENSOR, WATER TEMP.	1							
36	1	129150-49360	GASKET, 10	1							
37	1	124465-44950	GASKET, 16	1							
38	1	129004-49610	HOSE ASSY, WATER A	1							
39	2	129004-49711	HOSE, WATER A	1							
40	2	119802-49730	RETAINER, PIPE	1							
41	2	124722-59050	CLAMP, HOSE 9	2							
42	1	129004-49620	HOSE ASSY, WATER B	1							
43	2	129004-49721	HOSE, WATER B	1							
44	2	124722-59050	CLAMP, HOSE 9	2							

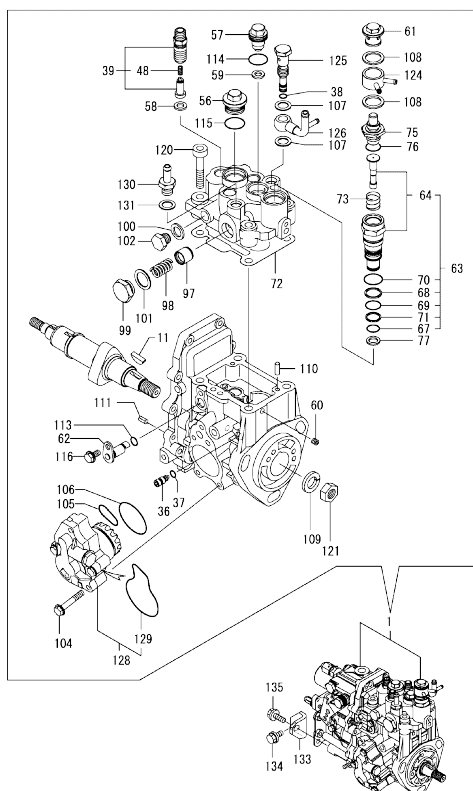
Fig.11. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.12) is incorporated in this Fuel Injection Pump(No.1).
Eco pump
Make sure to update the engines ECU information when replacing the Eco pump.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729286-51300	FIE ASSY	1							1
11	2	119802-51090	KEY, FEATHER 4X16	1							
36	2	158600-51270	STOPPER, TAPPET	1							
37	2	158563-51281	O-RING, 4D S6	1							
38	2	158563-51281	O-RING, 4D S6	1							
39	2	129008-51390	VALVE ASSY, DELIVERY	3							
48	3	158563-51330	SPRING, DELIVERY	3							
56	2	158601-51550	PLUG, M22	1							
57	2	119802-51560	PLUG, BARREL M14	1							
58	2	158552-51571	GASKET, BARREL PLUG	3							
59	2	158552-51571	GASKET, BARREL PLUG	1							
60	2	158557-51570	PLUG, RACK	1							
61	2	158601-51570	PLUG	1							
62	2	158552-51580	LIFTER, LINK	1							
63	2	119802-51590	TIMER ASSY	1							
64	3	119802-51600	TIMER ASSY	1							
67	3	158553-51670	O-RING, PUMP TIMER	1							
68	3	119802-51680	RING, BACKUP	1							
69	3	119802-51690	O-RING, 1016	1							
70	3	24356-190200	O-RING, 4D19020	1							
71	3	24372-000150	RING, BACK UP T2P15	1							
72	2	158552-51600	GASKET, HEAD	1							
73	2	158553-51630	SPRING, TIMER	1							
75	2	158553-51650	ELEMENT, THERMOSTAT	1							
76	2	158553-51660	O-RING, P14	1							
77	2	158553-51680	GASKET, TIMER	1							
97	2	158601-51770	PISTON, ACCUMULATOR	1							
98	2	158552-51781	SPRING, ACCUMULATOR	1							
99	2	158601-51790	PLUG, ACCUMULATOR	1							
100	2	22190-120002	WASHER, SEAL 12	1							
101	2	22190-180002	WASHER, SEAL 18	1							
102	2	158553-51930	PLUG, M12	1							
104	2	158553-51770	BOLT	4							
105	2	158552-52311	O-RING, FEED PUMP	1							
106	2	158552-52400	O-RING, 4E S42	1							
107	2	22190-120002	WASHER, SEAL 12	2							
108	2	22190-180002	WASHER, SEAL 18	2							
109	2	22217-140000	WASHER, SPRING 14	1							
110	2	22312-050140	PIN, PARALLEL 5X14	2							
111	2	22351-050010	PIN, SPRING 5.0X10	2							
113	2	24311-000070	O-RING, 1AP7.0	1							
114	2	24356-190180	O-RING, 4D19018	1							
115	2	24356-190200	O-RING, 4D19020	1							
116	2	26106-060102	BOLT, M6X 10 PLATED	1							
120	2	26450-080452	BOLT, M8X 45	4							
121	2	26776-140002	NUT, LOCK M14	1							
124	2	158553-51551	JOINT, COOLING WATER	1							
125	2	158601-51650	JOINT, OVERFLOW	1							
126	2	158552-51670	JOINT, OVERFLOW	1							
128	2	158552-52100	PUMP ASSY, FUEL FEED	1							
129	3	158552-52500	O-RING, PUMP INNER	1							

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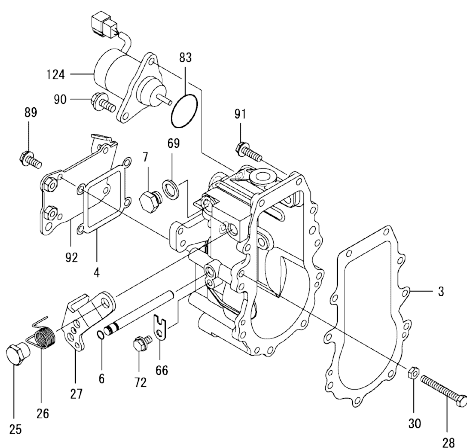


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
130	2	119934-59910	JOINT, PIPE	1							
131	2	22190-120002	WASHER, SEAL 12	1							
133	1	119802-51250	RETAINER, FUEL PUMP	1							
134	1	26106-080162	BOLT, M&X 16 PLATED	1							
135	1	26106-080202	BOLT, M&X 20 PLATED	1							

Remarks	(1) Governor (Fig. 12) is incorporated in this Fuel Injection Pump (No. 1). Eco pump Make sure to update the engines ECU information when replacing the Eco pump.
---------	---

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.12. GOVERNOR



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

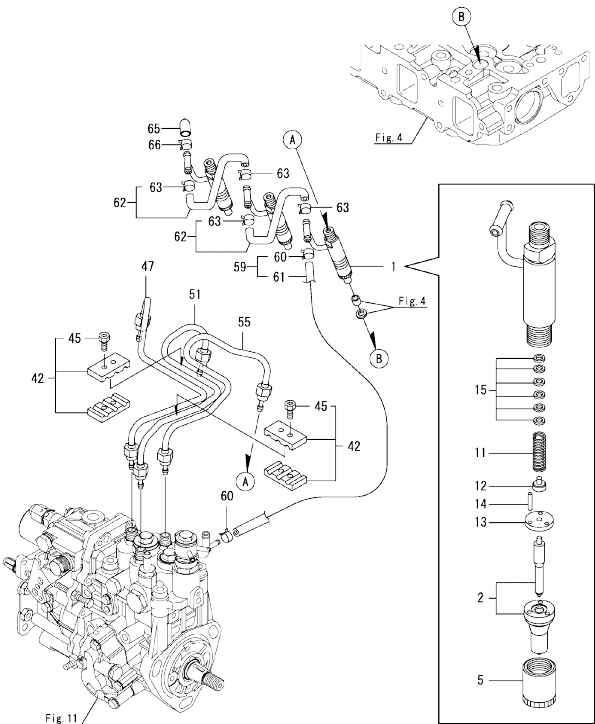
(D)=
(E)=
(F)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
3	2	158553-61050	GASKET, CASE	1							
4	2	158553-61070	GASKET, CASE	1							
6	2	129155-51280	O-RING, S6	1							
7	2	158553-51930	PLUG, M12	1							
25	2	129255-61410	NUT, CONTROL LEVER	1							
26	2	119807-61420	SPRING, RETURN	1							
27	2	158552-61441	LEVER, REGULATOR	1							
28	2	129155-61461	BOLT, IDLE LIMIT	1							
30	2	119740-61470	NUT	1							
66	2	119660-61901	STOPPER, SHAFT	1							
69	2	22190-120002	WASHER, SEAL 12	1							
72	2	26106-060102	BOLT, M6X 10 PLATED	1							
83	2	158552-61900	O-RING	1							
89	2	26106-060122	BOLT, M6X 12 PLATED	4							
90	2	26106-060122	BOLT, M6X 12 PLATED	2							
91	2	26106-060202	BOLT, M6X 20 PLATED	10							
92	2	158552-61061	COVER, GOVERNOR CASE	1							
124	2	129630-77910	SOLENOID, STOP	1							

N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.13. FUEL INJECTION VALVE



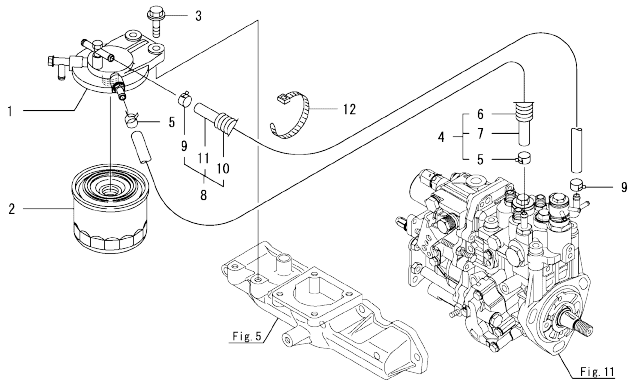
Remarks
(1)Spare parts.

(A)=3TNV88-BDTR
(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	129604-53300	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, VALVE STOP	3							
14	2	114250-53210	PIN, POSITIONING	6							
15	2	119803-53400	SHIM SET	3							
42	1	129150-59120	RETAINER, PIPE	2							1
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							
59	1	119802-59550	HOSE ASSY, RETURN	1							
60	2	124722-59050	CLAMP, HOSE 9	2							
61	2	119802-59560	HOSE, FUEL RETURN	1							
62	1	129486-59551	HOSE ASSY, RETURN	2							
63	2	124722-59050	CLAMP, HOSE 9	4							
65	1	119593-59581	CAP, RETURN PIPE	1							
66	1	124060-77680	CLAMP, HOSE 10	1							

Fig.14. FUEL PIPE

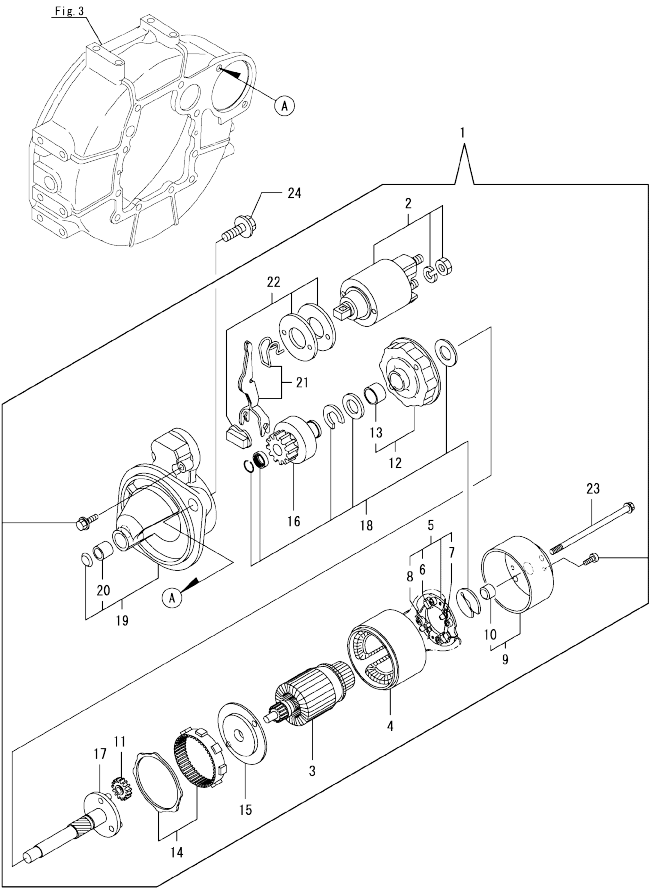


(A)=3TNV88-BDTR
(B)=
(C)=

(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	129004-55801	FILTER, FUEL	1							
3	1	26106-080302	BOLT, M8X 30 PLATED	2							
4	1	129044-59010	HOSE ASSY, D13XL220	1							
5	2	124766-59050	CLAMP, HOSE 11.5	2							
6	2	129044-59100	TUBE, CORRUGATED 15	1							
7	2	129044-59510	HOSE, FUEL L=220	1							
8	1	129950-59311	HOSE ASSY, FUEL	1							
9	2	124766-59050	CLAMP, HOSE 11.5	2							
10	2	129961-59110	TUBE, CORRUGATED 15	1							
11	2	105025-59580	HOSE, FUEL	1							
12	1	121750-59890	BAND, NYLON	1							

Fig.15. STARTER MOTOR

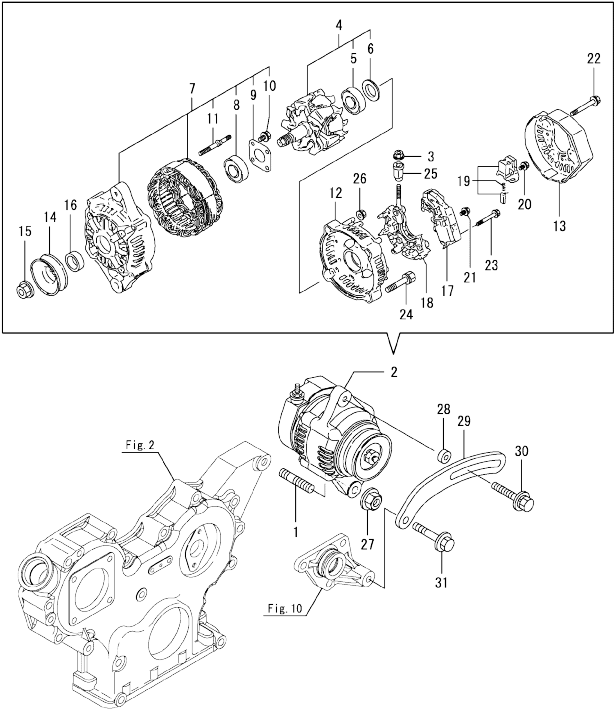


(A)=3TNV88-BDTR
(B)=
(C)=

(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, 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, STARTER	1							
10	3	129242-77170	METAL, REAR COVER	1							
11	2	118400-77170	GEAR, PLANETARY	3							
12	2	129242-77180	BRACKET, CENTER P	1							
13	3	129698-77190	BRACKET, CENTER	1							
14	2	129698-77200	GEAR, INTERNAL	1							
15	2	129242-77210	BRACKET, CENTER A	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	METAL, STARTER	1							
21	2	129242-77270	LEVER SET, SHIFT	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)=3TNV88-BDTR
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-01900	BOLT, M10X33	1							
2	1	129052-77240	ALTERNATOR, 12V-55A	1							
3	2	129240-79310	NUT	1							
4	2	129052-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	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	COVER, END	1							
13	2	128401-77450	COVER, GENERATOR	1							
14	2	119620-77461	PULLEY, GENERATOR	1							
15	2	119620-77471	NUT	1							
16	2	119620-77490	COLLAR	1							
17	2	119620-77740	REGULATOR ASSY	1							
18	2	129052-79260	HOLDER ASSY	1							
19	2	129052-79270	HOLDER ASSY, 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, W/WASHER	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	119940-77270	SPACER, GENERATOR	1							
29	1	119802-77330	ADJUSTER, BELT	1							
30	1	129972-77341	BOLT, ADJUSTER L=50	1							
31	1	26106-080452	BOLT, M8X 45 PLATED	1							

Fig.17. ACCESSORY

(D)=
(E)=

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

[illegible]

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Parts No. Index

Parts No.	Fig. No.	Ref. No.
105025-59580	14	11
114250-39450	9	42
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-Z	9	52
119131-18320	6	5
119226-07900	4	1
119593-59581	13	65
119609-32040	2	9
119620-01750	3	3
119620-77461	16	14
119620-77471	16	15
119620-77490	16	16
119620-77740	16	17
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	34
119640-01640	3	8
119660-61901	12	66
119740-61470	12	30
119802-01561	2	5
119802-03110	4	45
119802-03130	4	47
119802-03141	4	48
119802-11260	4	7
119802-11270	4	8
119802-11280	4	9
119802-11870	4	33
119802-25071	7	16
119802-25101	7	10
119802-25901	7	15
119802-39450	9	44
119802-49113	10	9
119802-49730	10	40
119802-51090	11	11
119802-51250	11	133

Parts No.	Fig. No.	Ref. No.
119802-51560	11	57
119802-51590	11	63
119802-51600	11	64
119802-51680	11	68
119802-51690	11	69
119802-59550	13	59
119802-59560	13	61
119802-77330	16	29
119803-01520	2	4
119803-21200	8	4
119803-25050	7	9
119803-53400	13	15
119803-77830	4	58
119807-61420	12	26
119865-21600	8	14
119934-01800	2	3
119934-59910	11	130
119940-77270	16	28
120130-11860	4	31
120270-54410	4	36
120445-44540	17	4
121023-01551	2	19
121111-21501	8	11
121400-11340	4	27
121450-42450	10	34
121520-34810	9	16
121550-23200	8	26
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	66
124085-35350	9	29
124160-01751	2	6
	4	41
124160-01910	1	6
		7
124160-11360	4	53
124160-39140	9	43
124195-77770	15	23
124240-01871	2	7
124250-49351	10	35
124395-49840	10	17
124460-11340	4	28
124465-44950	10	37
124574-44761	10	26
124722-59050	10	41
		44

Parts No.	Fig. No.	Ref. No.
124722-59050	13	60
		63
124766-59050	14	5
		9
128401-77440	16	12
128401-77450	16	13
129001-01250	1	5
129001-01340	1	28
129001-02931	1	29
129001-12110	5	4
129001-32002	9	1
129004-03010	4	43
129004-11241	4	4
129004-11251	4	5
129004-11310	4	50
129004-11650	4	11
129004-11900	4	35
129004-13110	6	1
129004-13200	17	1
129004-21650	8	8
129004-34802	9	15
129004-42002	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
129004-55801	14	2
129004-59811	13	47
129004-59821	13	51
129004-59831	13	55
129005-03080	5	1
129005-11100	4	23
129005-12101	5	3
129005-22080	8	15
129005-22500	8	17
129005-22900	8	32
129005-22950	8	34
129005-59830	9	45
129006-35100	9	23
129006-44480	9	30
129006-49040	9	35
129008-11710	4	16
129008-21000	8	1
129008-51390	11	39
129008-77800	4	56
129008-77820	4	57
129044-59010	14	4
129044-59100	14	6

Parts No.	Fig. No.	Ref. No.
129044-59510	14	7
129052-77240	16	2
129052-77380	16	4
129052-77422	16	7
129052-79260	16	18
129052-79270	16	19
129100-01580	3	1
		14
		8
129100-01730	3	2
129100-01760	3	6
129100-11112	3	7
129100-23910	4	24
129100-35301	8	29
129100-35301	9	18
129100-42051	10	3
129100-42121	10	4
129103-49301	9	40
129120-44741	10	25
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	44
129150-11230	4	12
129150-11280	4	10
129150-11370	4	15
129150-11750	4	14
129150-11810	4	32
129150-13110	6	2
129150-14101	7	6
129150-14200	7	1
129150-14400	7	2
129150-23601	8	27
129150-23611	8	30
129150-25301	7	14
129150-32020	9	13
129150-35042	9	17
129150-35111	9	27
129150-42290	10	13
129150-49360	10	36
129150-49811	10	29
129150-59120	13	42
129150-59131	13	45
129150-77511	5	8
129155-49801	10	28
129155-51280	12	6
129155-61461	12	28

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129202-22300	8	21
129211-77920	17	6
129236-03120	4	46
129236-11350	4	42
129240-79310	16	3
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
129410-03990	5	2
129417-35150	9	25
129486-01670	3	18
129486-12581	5	7
129486-42021	10	14
129486-42140	10	16
129486-59551	13	62
129508-33031	9	20
129508-33060	9	21
129508-35100	9	22
129508-35150	9	26
129508-49030	9	31
129556-42350	10	23
129604-53300	13	2
129612-01600	3	2
129612-52100	17	5
129630-77910	12	124
129642-49180	9	37
129648-01600	3	15
129648-01780	3	17
129698-77020	15	2
129698-77190	15	13
129698-77200	15	14
129698-77220	15	16
129698-77230	15	17
129698-77250	15	18
129795-01900	16	1
129795-01950	2	8
129795-02412	1	12

Parts No.	Fig. No.	Ref. No.
129795-11120	4	25
129795-11180	4	26
129795-21661	8	9
129795-49551	10	31
129900-07900	4	2
129950-59311	14	8
129961-59110	14	10
129972-77341	16	30
129E00-13640	6	4
158552-51151	7	17
158552-51571	11	58
		59
158552-51580	11	62
158552-51600	11	72
158552-51670	11	126
158552-51781	11	98
158552-52100	11	128
158552-52311	11	105
158552-52400	11	106
158552-52500	11	129
158552-61061	12	92
158552-61441	12	27
158552-61900	12	83
158553-51551	11	124
158553-51630	11	73
158553-51650	11	75
158553-51660	11	76
158553-51670	11	67
158553-51680	11	77
158553-51770	11	104
158553-51930	11	102
	12	7
158553-61050	12	3
158553-61070	12	4
158557-51570	11	60
158563-51281	11	37
		38
158563-51330	11	48
158600-51270	11	36
158601-51550	11	56
158601-51570	11	61
158601-51650	11	125
158601-51770	11	97
158601-51790	11	99
171008-03990	9	32
		39
171051-01921	1	8
171056-49120	9	51
171340-21580	8	12
22190-080002	2	11

Parts No.	Fig. No.	Ref. No.
22190-080002	9	47
		48
22190-100002	9	49
22190-120002	11	100
		107
		131
	12	69
22190-180002	11	101
		108
22190-220002	3	10
22217-140000	11	109
22252-000260	8	22
22312-050140	11	110
22351-030010	8	7
22351-050010	11	111
22351-060012	4	37
22512-070140	7	7
	8	5
22857-500100	4	51
		52
23080-015000	9	34
		38
23414-080000	10	18
23857-030000	9	46
23875-020000	10	11
23875-030000	10	10
23876-010000	10	12
24311-000070	11	113
24311-000120	4	54
24311-000320	2	12
	4	55
24341-000240	2	20
24356-190180	11	114
24356-190200	11	70
		115
24372-000150	11	71
25152-003800	10	24
26106-060102	11	116
	12	72
26106-060122	10	33
	12	89
		90
26106-060162	2	21
26106-060202	10	27
	12	91
26106-080122	10	19
26106-080142	7	8
26106-080162	2	13
		14
	3	11

Parts No.	Fig. No.	Ref. No.
26106-080162	4	3
	10	20
	11	134
26106-080202	5	5
		9
	9	41
	11	135
26106-080222	10	32
26106-080252	3	12
	4	38
26106-080302	2	15
	14	3
26106-080352	3	19
	4	39
	9	19
26106-080402	7	13
26106-080452	3	13
	10	21
	16	31
26106-080502	3	20
	4	40
26106-080552	2	16
26106-080602	10	22
26106-080802	5	6
26106-080852	2	17
26106-120252	15	24
26206-100252	3	4
26206-100302	3	5
26306-080002	2	18
	6	6
26306-100002	16	27
26366-060002	9	50
26450-060252	9	14
26450-080452	11	120
26776-140002	11	121
27241-120000	1	13
27241-300000	1	14
27241-400000	4	22
27310-080001	4	29
719803-01500	2	1
720445-44200	17	2
729005-01560	1	1
729286-51300	11	1
729402-23100	8	23
729604-53400	13	1
X2114535200	15	20