

OCR10-M52500EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE68-SA01~04, 3TNE68-G1A01, 3TNE68-G2A01, 3TNE68C-(E)SA01 & 3TNE68C-(E)G1A01.

2. Model name

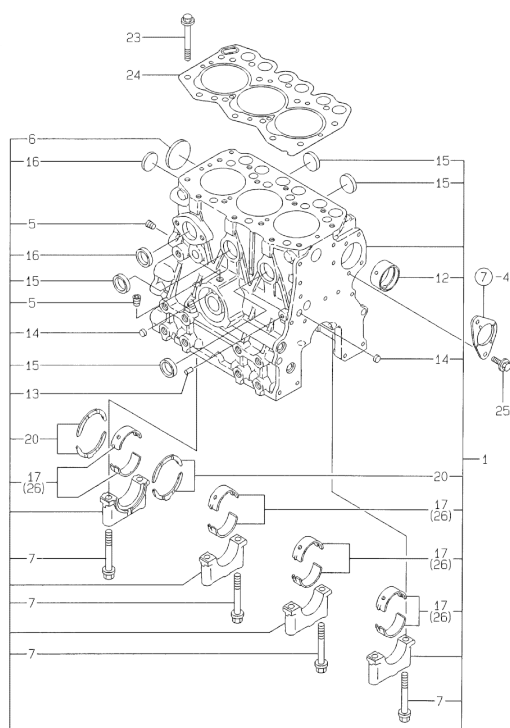
Column	Model name	Manufactured	E/#
(A)	3TNE68-SA01	1999/4~	63302~
	3TNE68-SA02		
	3TNE68-SA03		
	3TNE68-SA04		
(B)	3TNE68-G1A01	1999/5~	63490~
(C)	3TNE68-G2A01	1999/5~	63414~
(D)	3TNE68C-SA01	1999/3~	62908~
	3TNE68C-ESA01	2000/1~	65289~
(E)	3TNE68C-G1A01	1999/3~	63041~
	3TNE68C-EG1A01	2000/4~	66126~

3. Each illustration corresponds to the parts list on the following page.
4. When ordering parts, clearly write down the engine model and serial number, as well as the name and number of each part in your order sheet. This will help insure reliable delivery of the parts you have ordered.

Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE68(C)-(E)SA,G1,2			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	RADIATOR		
12.	FUEL INJECTION PUMP		
13.	FUEL INJECTION PUMP		
14.	GOVERNOR		
15.	GOVERNOR		
16.	FUEL INJECTION VALVE		
17.	FUEL FILTER		
18.	ENGINE CONTROL DEVICE		
19.	STARTING MOTOR		
20.	STARTING MOTOR(COLD DISTRICT)		
21.	GENERATOR		
22.	PANEL		
23.	TOOL & GASKET SET		

Fig.1. CYLINDER BLOCK



Remarks
(1) UNDER-SIZE(U.S=0.25)PART.

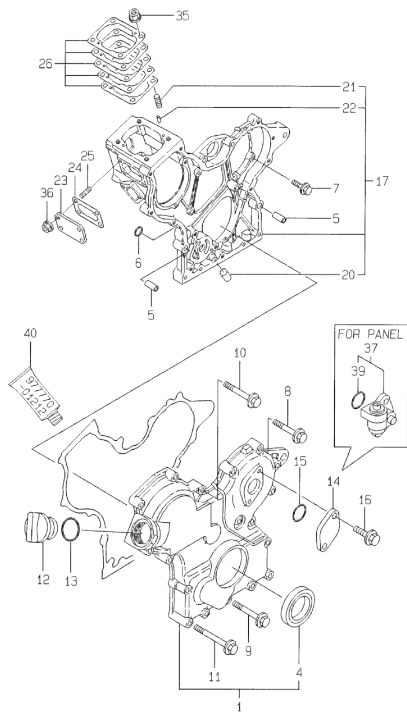
0CR10-M52500 Fig.1

(A)=3TNE68-SA (D)=3TNE68C(E)SA
(B)=3TNE68-G1A01 (E)=3TNE68C(E)G1
(C)=3TNE68-G2A01 (F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719265-01560	BLOCK ASSY, CYLINDER	1	1	1	1	1			
5	2	124060-01050	PLUG, PT1/8	2	2	2	2	2			
6	2	27231-400000	PLUG 40	1	1	1	1	1			
6-1	2	119265-01250	PLUG, 40	1	1	1	1	1		N	
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)						
7	2	119260-02020	BOLT, METAL CAP	8	8	8	8	8			
12	2	119266-02410	BUSH	1	1	1	1	1			
13	2	27221-060100	PLUG, 6X10	1	1	1	1	1			
14	2	27241-100000	PLUG, 10	2	2	2	2	2			
15	2	27241-250000	PLUG, 25	4	4	4	4	4			
16	2	27241-300000	PLUG 30	2	2	2	2	2			
17	2	119260-02800	BEARING, MAIN	4	4	4	4	4			
20	2	119260-02930	BEARING, THRUST	2	2	2	2	2			
23	1	119266-01200	BOLT, HEAD	14	14	14	14	14			
24	1	119265-01341	GASKET, HEAD	1	1	1	1	1			
25	1	26106-060122	BOLT, M6X 12 PLATED	2	2	2	2	2			
26	1	719260-02870	BEARING, 0.25 US	4	4	4	4	4			1

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

Fig.2. GEAR HOUSING



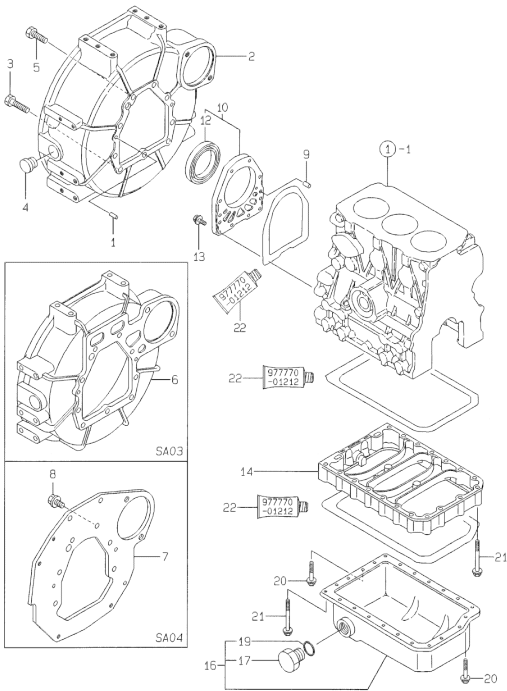
Remarks
(1) OPTIONAL PART.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-01590	COVER ASSY,GEAR CASE	1	1	1	1	1			
4	2	119620-01800	SEAL, OIL	1	1	1	1	1			
5	1	119660-01911	PIPE, KNOCK	4	4	4	4	4			
6	1	119624-32040	O-RING, P12.0	2	2	2	2	2			
7	1	26106-060162	BOLT, M6X 16 PLATED	5	5	5	5	5			
8	1	26106-060302	BOLT, M6X 30 PLATED	5	5	5	5	5			
9	1	26106-060402	BOLT, M6X 40 PLATED	3	3	3	3	3			
10	1	26106-060502	BOLT, M6X 50 PLATED	4	4	4	4	4			
11	1	26106-060652	BOLT, M6X 65 PLATED	6	6	6	6	6			
12	1	124160-01751	COVER, FILLER	1	1	1	1	1			
13	1	24311-000320	O-RING, 1AP32.0	1	1	1	1	1			
14	1	121023-01550	COVER	1	1	1	1	1			
15	1	24341-000240	O-RING, 1AS24.0	1	1	1	1	1			
16	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2	2	2			
17	1	119260-01490	CASE ASSY, GEAR	1	1	1	1	1			
20	2	119260-01510	PLUG	1	1	1	1	1			
21	2	121450-01560	STUD, M8X22	4	4	4	4	4			
22	2	22351-040010	PIN, SPRING 4.0X10	2	2	2	2	2			
23	1	119660-01551	COVER	1	1	1	1	1			
24	1	119660-01562	GASKET	1	1	1	1	1			
25	1	119660-01570	STUD, M6X12	4	4	4	4	4			
26	1	119623-01950	SHIM SET, ADJUSTING	1	1	1	1	1			
35	1	194990-22050	NUT, M8	4	4	4	4	4			
36	1	26366-060002	NUT, M6	4	4	4	4	4			
37	1	129150-91400	GEAR	1	1	1	1	1			
39	2	24341-000240	O-RING, 1AS24.0	1	1	1	1	1			
40	1	977770-01212	GASKET, LIQUID	1	1	1	1	1			1

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Fig.3. FLYWHEEL HOUSING & OIL SUMP



- Remarks
- (1) FOR 3TNE68-SA01,02.
 - (2) FOR 3TNE68-SA03.
 - (3) FOR 3TNE68-SA04.
 - (4) OPTIONAL PART.
 - (5) FOR 3TNE68-SA01,02,03.

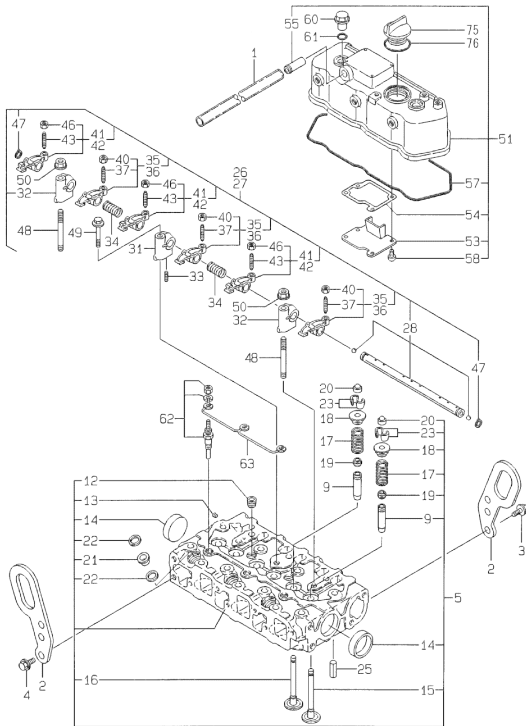
OCR10-M52500 Fig.3

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2	2	2	2	2			
2	1	119280-01600	FLANGE, MOUNTING	1	1	1	1	1			1
2-1	1	119280-01601	HOUSING, FLYWHEEL	1	1	1	1	1		N	1
(A=E63868) (B=E64345) (C=E63757) (D=E63979) (E=E63946)											
3	1	121120-01620	BOLT, M10X28	3	3	3	3	3			5
4	1	119620-01750	CAP	1	1	1	1	1			5
5	1	26206-100252	BOLT, M10X 25 PLATED	6	6	6	6	6			5
6	1	119600-01600	HOUSING, FLYWHEEL	1							2
7	1	119621-01611	FLANGE, MOUNTING	1							3
8	1	26116-100202	BOLT, M10X 20 PLATED	8							3
9	1	119620-01620	PIN, M6X10	2	2	2	2	2			
10	1	119660-01640	CASE ASSY, OIL SEAL	1	1	1	1	1			
12	2	124085-02220	SEAL, OIL	1	1	1	1	1			
13	1	26106-060222	BOLT, M6X 22 PLATED	10	10	10	10	10			
14	1	119454-01721	SPACER, OIL SUMP	1	1	1	1	1			
16	1	119260-01770	SUMP ASSY, OIL	1	1	1	1	1			
17	2	121400-01640	PLUG, 16	1	1	1	1	1			
19	2	24311-000180	O-RING, 1AP18.0	1	1	1	1	1			
20	1	26106-060102	BOLT, M6X 10 PLATED	3	3	3	3	3			
21	1	26106-060452	BOLT, M6X 45 PLATED	20	20	20	20	20			
22	1	977770-01212	GASKET, LIQUID	1	1	1	1	1			4

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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

OCR10-M52500 Fig.4

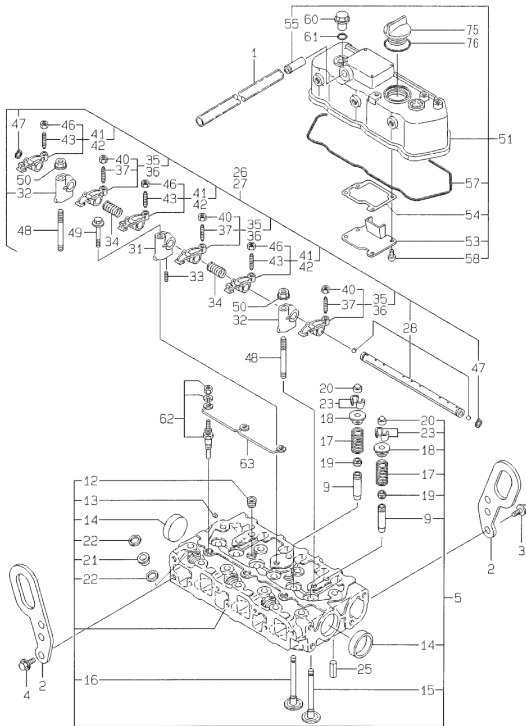
(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	23065-120500	PIPE, 12X 500	1	1	1	1	1			
2	1	119260-07900	LIFTER	2	2	2	2	2			
3	1	26106-080142	BOLT, M8X 14 PLATED	1	1	1	1	1			
4	1	26106-080142	BOLT, M8X 14 PLATED	2	2	2	2	2			
5	1	119265-11700	HEAD ASSY, CYLINDER	1	1	1	1	1			
9	2	119260-11800	GUIDE, VALVE	6	6	6	6	6			1
12	2	23871-030000	PLUG, R03	2	2	2	2	2			
12-1	2	23876-030000	PLUG, R03	2	2	2	2	2			N
(A=E000) (B=E000) (C=E000) (D=E000) (E=E000)											
13	2	27221-050080	PLUG, 5X 8	1	1	1	1	1			
14	2	27241-350000	PLUG, 35	2	2	2	2	2			
15	2	119260-11100	VALVE, INTAKE	3	3	3	3	3			
16	2	119260-11110	VALVE, EXHAUST	3	3	3	3	3			
17	2	114250-11120	SPRING, VALVE	6	6	6	6	6			
18	2	114250-11180	RETAINER, SPRING	6	6	6	6	6			
19	2	119260-11340	SEAL, VALVE STEM	6	6	6	6	6			
20	2	119260-11370	CAP, VALVE	6	6	6	6	6			
21	2	119600-11450	PROTECTOR, NOZZLE	3	3	3	3	3			
22	2	119600-11460	GASKET, NOZZLE	6	6	6	6	6			
23	2	714250-11570	COTTER ASSY	6	6	6	6	6			
25	1	22351-060012	PIN, SPRING 6.0X12	2	2	2	2	2			
26	1	119260-11200	SUPPORT ASSY, ARM	1	1	1	1	1			
27	1	119489-11200	SUPPORT ASSY, ARM		1						1
28	2	119260-11240	SHAFT ASSY, ROCKER	1	1	1	1	1			
31	2	119260-11260	SUPPORT, ROCKER ARM	1	1	1	1	1			
32	2	119265-11260	SUPPORT, ROCKER ARM	2	2	2	2	2			
33	2	119260-11270	SCREW	1	1	1	1	1			
34	2	119260-11280	SPRING	2	2	2	2	2			
35	2	719260-11650	ARM ASSY, ROCKER	3	3	3	3				
36	2	719489-11650	ARM ASSY, ROCKER	3				3			
37	3	105010-11230	SCREW, VALVE ADJUST	3	3	3	3	3			
40	3	26756-060002	NUT, LOCK M6	3	3	3	3	3			
41	2	719260-11660	ARM ASSY, ROCKER	3	3	3					
42	2	719489-11660	ARM ASSY, ROCKER	3				3			
43	3	105010-11230	SCREW, VALVE ADJUST	3	3	3	3	3			
46	3	26756-060002	NUT, LOCK M6	3	3	3	3	3			
47	2	22242-000100	RING, 10	2	2	2	2	2			
48	1	119620-11350	STUD	2	2	2	2	2			
49	1	26106-080452	BOLT, M8X 45 PLATED	1	1	1	1	1			
50	1	26366-080002	NUT, M8	2	2	2	2	2			
50-1	1	26306-080002	NUT, M8	2	2	2	2	2			N
(A=E000) (B=E000) (C=E000) (D=E000) (E=E000)											
51	1	119260-11330	BONNET ASSY, HEAD	1	1	1	1	1			
51-1	1	119260-11331	BONNET ASSY, HEAD	1	1	1	1	1			N
(A=E64966) (B=E65005) (C=E65093) (D=E75137) (E=E65235)											
53	2	119260-03020	PLATE, SHELTER	1	1	1	1	1			
54	2	119260-03031	GASKET	1	1	1	1	1			
55	2	118400-03060	JOINT, BREATHER	1	1	1	1	1			
57	2	119260-11310	GASKET, BONNET	1	1	1	1	1			
58	2	22857-500100	SCREW, 5X10	4	4	4	4	4			
60	1	124160-11360	KNOB	2	2	2	2	2			

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

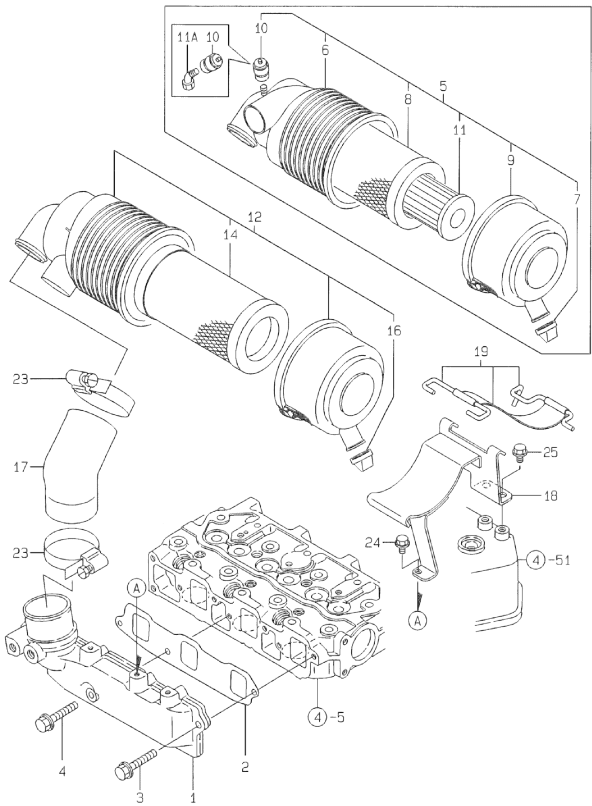
OCR10-M52500 Fig.4

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
61	1	24311-000120	O-RING, 1AP12.0	2	2	2	2	2			
62	1	129795-77800	PLUG, GLOW	3	3	3	3	3			
63	1	119620-77820	CONNECTOR, GLOW PLUG	1	1	1	1	1			
75	1	124160-01751	COVER, FILLER	1	1	1	1	1			
76	1	24311-000320	O-RING, 1AP32.0	1	1	1	1	1			

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{H}{V}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{H}{V}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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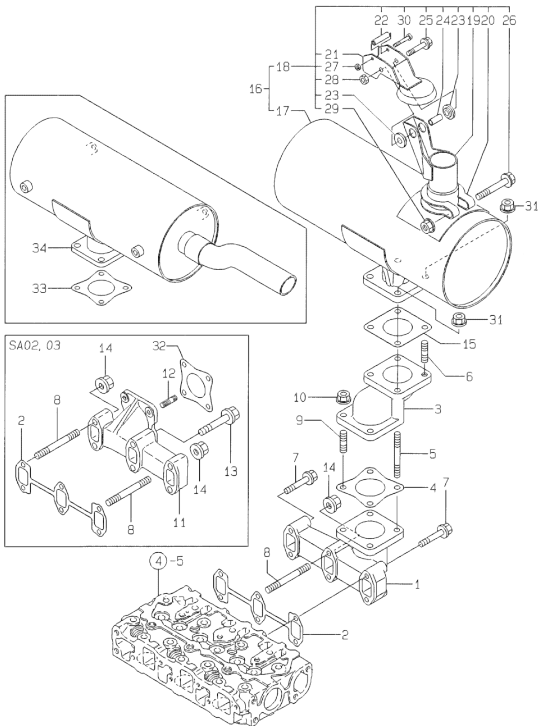
Fig.5. SUCTION MANIFOLD & AIR CLEANER



(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119275-12100	MANIFOLD, AIR INTAKE	1	1	1	1	1			
1-1	1	119275-12101	MANIFOLD, AIR INTAKE	1	1	1	1	1			R
(A=E65609) (B=E65620) (C=E65487) (D=E65477) (E=E66358)											
2	1	119270-12110	GASKET, MANIFOLD	1	1	1	1	1			
3	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2	2	2			
4	1	26106-060282	BOLT, M6X 28 PLATED	1	1	1	1	1			
5	1	119626-12500	CLEANER, AIR	1	1	1	1	1			
5-1	1	119626-12501	CLEANER, AIR	1	1	1	1	1			R
(A=E63868) (B=E64345) (C=E63757) (D=E63979) (E=E63946)											
6	2	119626-12510	BODY, AIR CLEANER	1	1	1	1	1			
7	2	119808-12540	VALVE, UNLOADER	1	1	1	1	1			
8	2	119655-12560	ELEMENT	1	1	1	1	1			
9	2	105027-12570	COVER, AIR CREAMER	1	1	1	1	1			
10	2	126650-12680	INDICATOR	1	1	1	1	1			
11	2	119233-12700	ELEMENT	1	1	1	1	1			
11A	2	119626-12800	ORIFICE	1	1	1	1	1			W
(A=E63868) (B=E64345) (C=E63757) (D=E63979) (E=E63946)											
12	1	119653-12500	CLEANER ASSY, AIR	1	1	1	1	1			
14	2	119655-12560	ELEMENT	1	1	1	1	1			
16	2	119808-12540	VALVE, UNLOADER	1	1	1	1	1			
17	1	119462-12550	PIPE, AIR INTAKE	1	1	1	1	1			
18	1	119489-12600	SUPPORT, AIR CLEANER	1	1	1	1	1			
19	1	119865-12600	BAND ASSY, CLEANER	1	1	1	1	1			
23	1	23000-054000	CLAMP, 54	2	2	2	2	2			
24	1	26106-060122	BOLT, M6X 12 PLATED	1	1	1	1	1			
25	1	26106-080122	BOLT, M8X 12 PLATED	2	2	2	2	2			

Fig.6. EXHAUST MANIFOLD & SILENCER

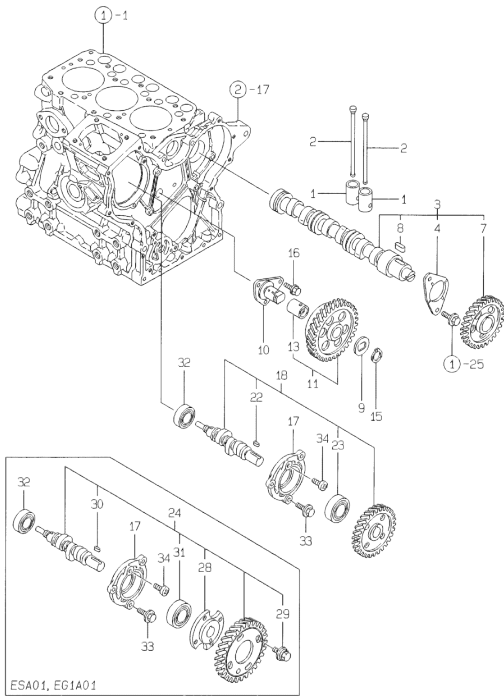


Remarks
(1) FOR 3TNE68-SA02,03.
(2) FOR 3TNE68-SA01,04.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119253-13100	MANIFOLD, EXHAUST	1	1	1	1	1			2
2	1	119260-13110	GASKET	1	1	1	1	1			
3	1	119840-13150	PIPE	1	1	1	1	1			2
4	1	121000-13201	GASKET, SILENCER	1	1	1	1	1			2
5	1	119823-13600	STUD, M8X70	2	2	2	2	2			2
6	1	119131-18320	STUD, M8X22	2	2	2	2	2			2
7	1	26106-060402	BOLT, M6X 40 PLATED	4	4	4	4	4			2
8	1	26216-060402	STUD, M6X 40	2	2	2	2	2			
8-1	1	119265-13810	STUD, M6X40	2	2	2	2	2		N	
		(A=E)XXX (B=E)XXX (C=E)XXX (D=E)XXX (E=E)XXX		2	2	2	2	2			2
9	1	26216-080282	STUD, M8X 28	2	2	2	2	2			2
10	1	26366-080002	NUT, M8	2	2	2	2	2			
11	1	119260-13100	MANIFOLD, EXHAUST	1							1
12	1	119131-18320	STUD, M8X22	4							1
13	1	26106-060352	BOLT, M6X 35 PLATED	4							1
13-1	1	119265-13830	BOLT, M6X35	4						N	1
		(A=E)XXX									
14	1	26366-060002	NUT, M6	2							
14-1	1	119265-13800	NUT, M6	2						N	
		(A=E)XXX									
15	1	124701-11911	GASKET, SILENCER	1	1	1	1	1			2
16	1	119620-13501	SILENCER	1	1	1	1	1			2
17	2	119620-13510	SILENCER ASSY	1	1	1	1	1			2
18	2	119620-13520	PIPE ASSY, TAIL	1	1	1	1	1			2
19	3	119620-13560	PIPE, TAIL	1	1	1	1	1			2
20	3	124664-13580	CLAMP	1	1	1	1	1			2
21	3	119358-13640	CAP, RAIN	1	1	1	1	1			2
22	3	121855-13821	SPACER, A	1	1	1	1	1			2
23	3	121855-13830	SPACER, B	2	2	2	2	2			2
24	3	123500-13840	SPACER, C	1	1	1	1	1			2
25	3	26106-060402	BOLT, M6X 40 PLATED	1	1	1	1	1			2
26	3	26106-080552	BOLT, M8X 55 PLATED	1	1	1	1	1			2
27	3	26347-040002	NUT, M4	1	1	1	1	1			2
28	3	26347-060002	NUT, M6	1	1	1	1	1			2
29	3	26366-080002	NUT, M8	1	1	1	1	1			2
29-1	3	26306-080002	NUT, M8	1	1	1	1	1		N	2
		(A=E)XXX (B=E)XXX (C=E)XXX (D=E)XXX (E=E)XXX		1	1	1	1	1			2
30	3	26557-040352	SCREW, M4X35	4	4	4	4	4			2
31	1	26366-080002	NUT, M8	4	4	4	4	4			2
31-1	1	26306-080002	NUT, M8	4	4	4	4	4		N	2
		(A=E)XXX (B=E)XXX (C=E)XXX (D=E)XXX (E=E)XXX		1	1	1	1	1			
32	1	121000-13201	GASKET, SILENCER	1	1	1	1	1			
33	1	121000-13201	GASKET, SILENCER	1	1	1	1	1			
34	1	119288-13501	SILENCER	1	1	1	1	1			

Fig.7. CAMSHAFT & DRIVING GEAR



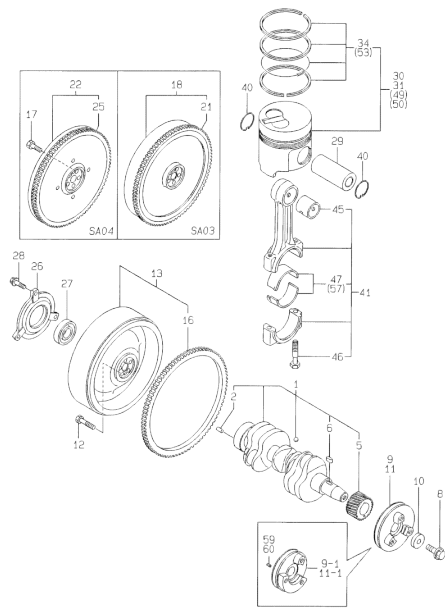
Remarks
(1) REPAIR PART.
(2) FOR 3TNE68C-SA01,G1A01.
(3) FOR 3TNE68C-ESA01,EG1A01.

OCR10-M52500 Fig.7
(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-14200	TAPPET	6	6	6	6	6			
2	1	119260-14400	ROD, PUSH	6	6	6	6	6			
3	1	119260-14580	CAMSHAFT ASSY	1	1	1	1	1			
4	2	119620-02450	BEARING, THRUST	1	1	1	1	1			
7	2	119260-14100	GEAR, CAMSHAFT	1	1	1	1	1			
8	2	22512-040120	KEY, 4X 12	1	1	1	1	1			
9	1	119660-25022	RETAINER	1	1	1	1	1			
10	1	119660-25052	SHAFT, IDLE	1	1	1	1	1			
11	1	119260-25100	GEAR ASSY, IDLE	1	1	1	1	1			
13	2	119620-25912	BUSH	1	1	1	1	1			1
15	1	22242-000200	RING, 20	1	1	1	1	1			
16	1	26106-060122	BOLT, M6X 12 PLATED	3	3	3	3	3			
17	1	119660-01821	BEARING, FUEL CAM	1	1	1	1	1			
18	1	119225-14200	CAM ASSY	1	1	1	1	1			2
22	2	22512-040120	KEY, 4X 12	1	1	1	1	1			2
23	2	24102-063034	BEARING, BALL 6303U	1	1	1	1	1			2
24	1	119225-14210	CAM ASSY					1	1		3
28	2	119660-25920	FLANGE					1	1		3
29	2	119660-25930	BOLT					4	4		3
30	2	22512-040120	KEY, 4X 12					1	1		3
31	2	24102-063034	BEARING, BALL 6203					1	1		3
32	1	24101-062034	BEARING, BALL 6203	1	1	1	1	1			
33	1	26106-060162	BOLT, M6X 16 PLATED	3	3	3	3	3			
34	1	26587-080102	SCREW, M8X10	1	1	1	1	1			

OCR10-M52500

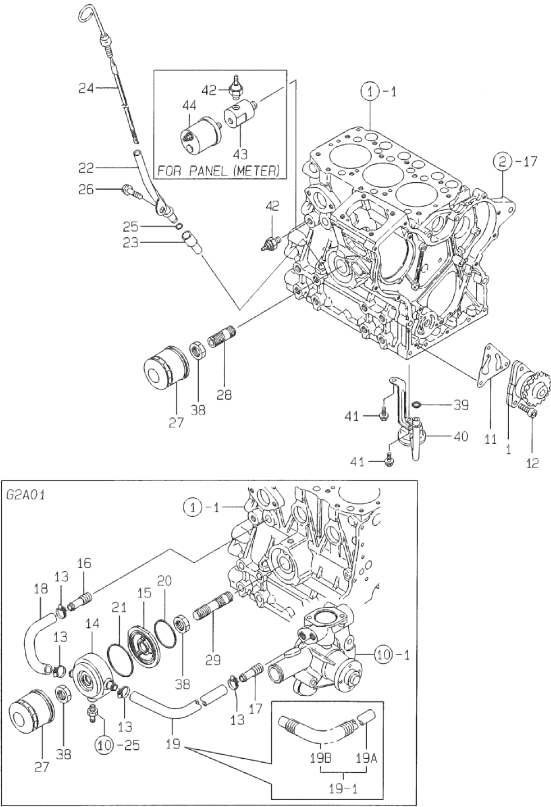
Fig.8. CRANKSHAFT & PISTON



Remarks
(1) REPAIR PART.
(2) OVER-SIZE (O.S.=0.25) PART.
(3) UNDER-SIZE (U.S.=0.25) PART.
(4) FOR 3TNE68-SA03.04. REF.NO.11-1 & 18-1(22-1) INTERCHANGEABLE BY SET.
(5) FOR 3TNE68-SA04. REF.NO.11-1&22-1 INTERCHANGEABLE BY SET.
(6) FOR 3TNE68-SA03. REF.NO.11-1&18-1 INTERCHANGEABLE BY SET.
(7) FOR 3TNE68-SA01.02. REF.NO.9-1 & 13-1 INTERCHANGEABLE BY SET.

										OCR10-M52500 Fig.8	
										(A)=3TNE68-SA (B)=3TNE68-G1A01 (C)=3TNE68-G2A01	
										(D)=3TNE68C(E)SA (E)=3TNE68C(E)G1 (F)=	
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119265-21700	CRANKSHAFT ASSY	1	1	1	1	1			
2	2	129100-01580	PIN, M8X16	1	1	1	1	1			
5	2	119260-21200	GEAR, CRANKSHAFT	1	1	1	1	1			
6	2	22512-040120	KEY, 4X 12	1	1	1	1	1			
8	1	119621-21680	BOLT, FLANGE 12X1.25	1	1	1	1	1			
9	1	119260-21650	V-PULLEY	1	1	1	1	1			7
9-1	1	119233-21691	V-PULLEY	1	1	1	1	1		F	7
(A=E68477) (B=E70179) (C=E68040) (D=E75136) (E=E66358)											
10	1	119620-21941	WASHER	1	1	1	1	1			
11	1	119260-21650	V-PULLEY	1							4
11-1	1	119233-21691	V-PULLEY	1						F	4
(A=E74102)											
12	1	121111-21501	BOLT, FLYWHEEL	5	5	5	5	5			8
13	1	119688-21590	FLYWHEEL ASSY	1	1	1	1	1			7
13-1	1	119688-21591	FLYWHEEL ASSY	1	1	1	1	1		F	7
(A=E68477) (B=E70179) (C=E68040) (D=E75136) (E=E66358)											
16	2	119865-21600	GEAR, RING	1	1	1	1	1			7
17	1	119620-21500	BOLT, FLYWHEEL	5							5
18	1	119600-21580	FLYWHEEL ASSY	1							6
18-1	1	119265-21590	FLYWHEEL ASSY	1						F	6
(A=E75126)											
21	2	119865-21600	GEAR, RING	1							6
22	1	119620-21591	FLYWHEEL ASSY	1							5
22-1	1	119265-21560	FLYWHEEL ASSY	1						F	5
(A=E74102)											
25	2	124060-21600	GEAR, RING	1							5
26	1	119888-21450	RETAINER, BEARING	1			1				7
27	1	24104-062054	BEARING, BALL 6205UU	1			1				7
28	1	26106-080222	BOLT, M8X 22 PLATED	3			3				7
29	1	119265-22300	PIN, PISTON	3	3	3	3	3			
30	1	119265-22601	PISTON ASSY	3	3		3	3			
31	1	119265-22090	PISTON ASSY			3					
34	2	119265-22500	RING SET, PISTON	3	3	3	3	3			
40	1	22252-000200	RING, 20	6	6	6	6	6			
41	1	119265-23100	ROD ASSY, CONNECTING	3	3	3	3	3			
45	2	119260-23910	BEARING, PISTON PIN	3	3	3	3	3			1
46	2	119265-23200	BOLT, CONNECTING ROD	6	6	6	6	6			
47	2	719260-23600	BEARING, CRANK PIN	3	3	3	3	3			
49	1	119265-22930	PISTON ASSY, 0.25 OS	3	3		3	3			2
50	1	119265-22900	PISTON ASSY, 0.25 OS			3					2
53	2	119265-22950	RING SET, 0.25 OS	3	3	3	3	3			2
57	1	719260-23610	BEARING ASSY, 0.25	3	3	3	3	3			3
59	1	22351-030010	PIN, SPRING 3.0X10	1	1	1	1	1		W	7
(A=E68477) (B=E70179) (C=E68040) (D=E75136) (E=E66358)											
60	1	22351-030010	PIN, SPRING 3.0X10	1						W	4
(A=E74102)											

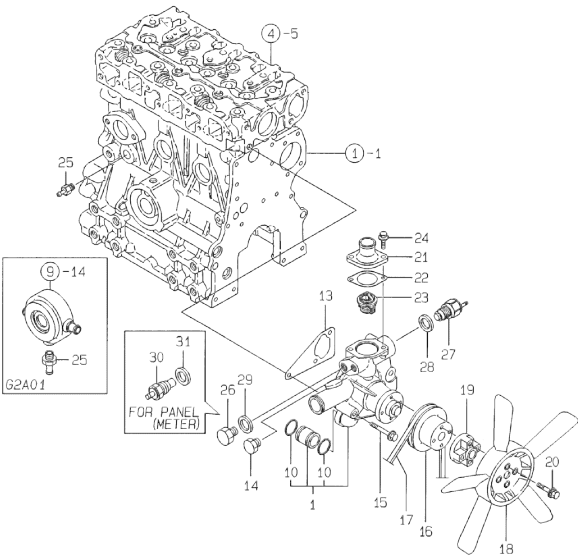
Fig.9. LUB.OIL SYSTEM



(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-32000	PUMP ASSY, OIL	1	1	1	1	1			
11	1	119660-32020	GASKET, PUMP	1	1	1	1	1			
12	1	26450-060202	BOLT, M6X 20	3	3	3	3	3			
13	1	171008-03990	CLIP, HOSE 18.5			4					
14	1	119642-33030	COOLER, OIL			1					
15	1	119642-33100	BRACKET, COOLER			1					
16	1	129122-44480	JOINT			1					
17	1	129122-44480	JOINT			1					
18	1	119642-49030	PIPE, WATER			1					
19	1	129403-49050	PIPE, WATER			1					
19-1	1	119265-49060	PIPE ASSY, WATER (C=E64495)			1				N	
19A	2	119265-49050	PIPE, WATER (C=E64495)			1				W	
19B	2	119265-49090	TUBE, CORRUGATED (C=E64495)			1				W	
20	1	24321-000600	O-RING, 1AG60.0			1					
21	1	24321-000700	O-RING, 1AG70.0			1					
22	1	119225-34810	GUIDE, DIPSTICK	1	1	1	1	1	1		
23	1	119260-34810	GUIDE, DIPSTICK	1	1	1	1	1	1		
24	1	119285-34821	DIPSTICK, LUB. OIL	1	1	1	1	1	1		
25	1	24311-240100	O-RING, 1AP10A	1	1	1	1	1	1		
26	1	26106-060102	BOLT, M6X 10 PLATED	1	1	1	1	1	1		
27	1	119305-35150	FILTER, OIL	1	1	1	1	1	1		
28	1	119225-35300	VALVE ASSY,OIL PRESS	1	1			1	1		
29	1	119265-35300	VALVE ASSY, CONTROL			1					
38	1	129150-35350	NUT	1	1	2		1	1		
39	1	119209-35030	O-RING, P11	1	1	1	1	1	1		
40	1	119260-35081	PIPE, OIL INLET	1	1	1	1	1	1		
41	1	26106-060122	BOLT, M6X 12 PLATED	2	2	2	2	2	2		
42	1	124160-39450	SWITCH, 0.5KG	1	1	1	1	1	1		
42-1	1	114250-39450	SWITCH, 0.5KG	1	1	1	1	1	1		N
(A=E65214) (B=E65343) (C=E65093) (D=E75137) (E=E65235)											
43	1	171375-39601	DAMPER, 1/8	1	1	1	1	1	1		
44	1	144626-91560	SENSOR	1	1	1	1	1	1		

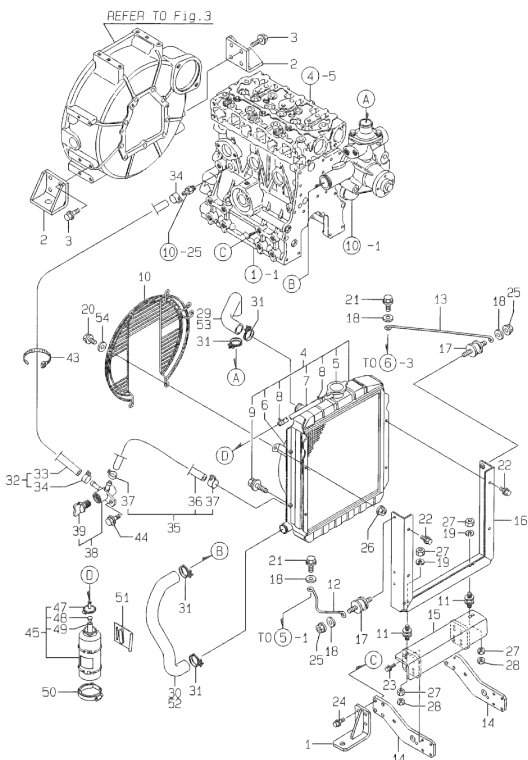
Fig.10. COOLING WATER SYSTEM



(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119265-42002	PUMP ASSY, WATER	1	1	1	1	1			
10	2	24311-000210	O-RING, 1AP21.0	2	2	2	2	2			
10-1	2	119209-42320	O-RING, P21 EPDM	2	2	2	2	2			N
13	1	119260-42020	GASKET, WATER PUMP	1	1	1	1	1			
13-1	1	119260-42021	GASKET, WATER PUMP	1	1	1	1	1			N
14	1	171056-49120	PLUG, DRAIN	1	1			1	1		
15	1	26106-080452	BOLT, M8X 45 PLATED	3	3	3	3	3			
16	1	119620-42350	V-PULLEY	1	1	1	1	1			
17	1	104514-42780	V-BELT, HM33	1	1	1	1	1			
18	1	124700-44740	FAN, COOLING 5X310	1	1	1	1	1			
19	1	121267-44760	SPACER	1	1	1	1	1			
20	1	26014-060352	BOLT, M6X 35	4	4	4	4	4			
21	1	129350-49530	COVER, THERMOSTAT	1	1	1	1	1			
22	1	129350-49541	GASKET	1	1	1	1	1			
23	1	129350-49800	THERMOSTAT, 71	1	1	1	1	1			
24	1	26106-080202	BOLT, M8X 20 PLATED	2	2	2	2	2			
25	1	121550-49111	JOINT, PT1/4	1	1	1	1	1			
26	1	121450-42450	PLUG, M16	1	1	1	1	1			
27	1	121250-44901	SWITCH, 110	1	1	1	1	1			
28	1	124465-44950	GASKET, 16	1	1	1	1	1			
29	1	124465-44950	GASKET, 16	1	1	1	1	1			
30	1	124250-49351	SENSOR	1	1	1	1	1			
31	1	129150-49360	GASKET	1	1	1	1	1			

Fig.11. RADIATOR



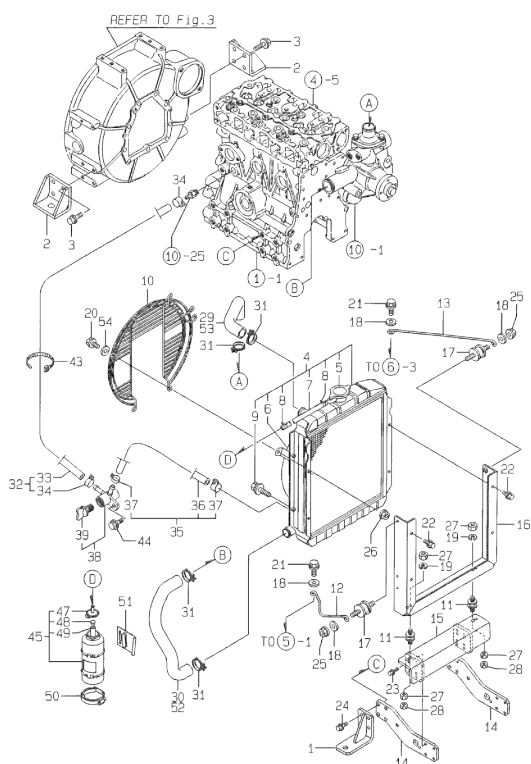
Remarks
(1) FOR 3TNE68-SA01,02,03.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119288-08100	FOOT	2	2		2	2			1
2	1	119888-08110	FOOT	2	2		2	2			1
3	1	26106-100202	BOLT, M10X 20 PLATED	8	8		8	8			1
4	1	119621-44500	RADIATOR	1	1	1	1	1	1		
5	2	119259-44570	CAP, RADIATOR	1	1	1	1	1	1		
6	2	X2411365340	SHROUD	1	1	1	1	1	1		
7	2	129132-44530	HOSE, RUBBER	1	1	1	1	1	1		
8	2	121250-44590	CLAMP	2	2	2	2	2	2		
9	2	26014-080162	BOLT, M8X 16	4	4	4	4	4	4		
10	1	119621-44560	GUARD	1	1	1	1	1	1		
11	1	121400-44650	ABSORBER	2	2		2	2			1
12	1	119265-44941	RETAINER	1	1		1	1			1
13	1	119265-44950	RETAINER	1	1		1	1	1		1
14	1	119688-44950	BRACKET	2	2		2	2			1
15	1	119688-44961	BRACKET, RADIATOR	1	1		1	1	1		1
16	1	119688-44972	SUPPORT, RADIATOR	1	1		1	1	1		1
17	1	127694-91050	ABSORBER, SHOCK	2	2		2	2	2		1
18	1	22137-080000	WASHER, 8	4	4		4	4			1
19	1	22217-100000	WASHER, SPRING 10	2	2		2	2			1
20	1	26106-080122	BOLT, M8X 12 PLATED	6	6	6	6	6	6		
20-1	1	26106-080142	BOLT, M8X 14 PLATED	6	6	6	6	6	6		N
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX)											
21	1	26106-080162	BOLT, M8X 16 PLATED	2	2		2	2			1
22	1	26106-080202	BOLT, M8X 20 PLATED	4	4		4	4			1
23	1	26106-080252	BOLT, M8X 25 PLATED	8	8		8	8			1
24	1	26116-100302	BOLT, M10X 30 PLATED	8	8		8	8			1
25	1	26366-060002	NUT, M6	2	2		2	2			1
26	1	26366-080002	NUT, M8	6	6	6	6	6	6		1
26-1	1	26306-080002	NUT, M8	6	6	6	6	6	6		N 1
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX)											
27	1	26716-100002	NUT, M10	4	4		4	4			
28	1	26756-100002	NUT, LOCK M10	2	2		2	2			
29	1	119288-49010	PIPE, WATER	1	1		1	1			1
30	1	119280-49020	PIPE, WATER	1	1		1	1	1		1
30-1	1	119632-49020	PIPE, WATER	1	1		1	1	1		N 1
(A=EXXX) (B=EXXX) (D=EXXX) (E=EXXX)											
31	1	23010-038000	CLAMP, 38	4	4	4	4	4			
32	1	119265-49100	PIPE ASSY, WATER	1	1		1	1	1		1
33	2	119265-49010	PIPE, WATER	1	1		1	1			1
34	2	124766-59050	CLIP, HOSE 12	2	2		2	2			1
35	1	119623-49100	PIPE, WATER	1	1		1	1	1		1
36	2	119623-49010	PIPE, WATER	1	1		1	1	1		1
37	2	124766-59050	CLIP, HOSE 12	2	2		2	2			1
38	1	129150-49100	COCK ASSY, 3-WAY	1	1		1	1	1		
39	2	129150-49080	COCK, DRAIN	1	1		1	1	1		
43	1	121750-59890	BAND, 140	1	1		1	1			1
44	1	26106-080162	BOLT, M8X 16 PLATED	1	1		1	1	1		1
45	1	124450-44510	TANK ASSY, SUB	1	1	1	1	1	1		
47	2	124450-44530	CAP	1	1		1	1	1		
48	2	124450-44560	RETAINER	1	1		1	1	1		
49	2	23061-070230	PIPE, 7X 230	1	1		1	1	1		

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



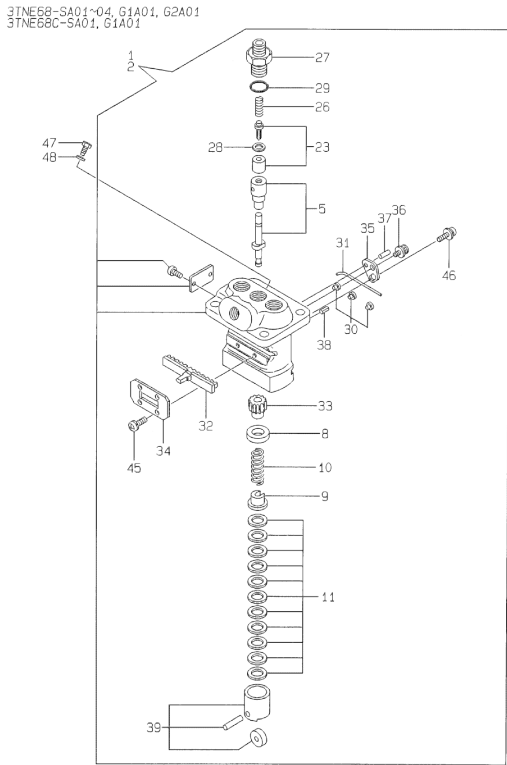
Remarks
(1) FOR 3TNE68-SA01,02,03.

(A)=3TNE68-SA (D)=3TNE68C(E)SA
(B)=3TNE68-G1A01 (E)=3TNE68C(E)G1
(C)=3TNE68-G2A01 (F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
50	1	124450-44550	BAND	1	1	1	1	1			
51	1	121256-44600	BRACKET, SUB TANK	1	1	1	1	1			
52	1	119645-49020	PIPE, WATER	1	1	1	1	1			
53	1	119688-49010	PIPE, WATER	1	1	1	1	1			
54	1	22137-080000	WASHER, 8	6	6	6	6	6		W	

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.12. FUEL INJECTION PUMP

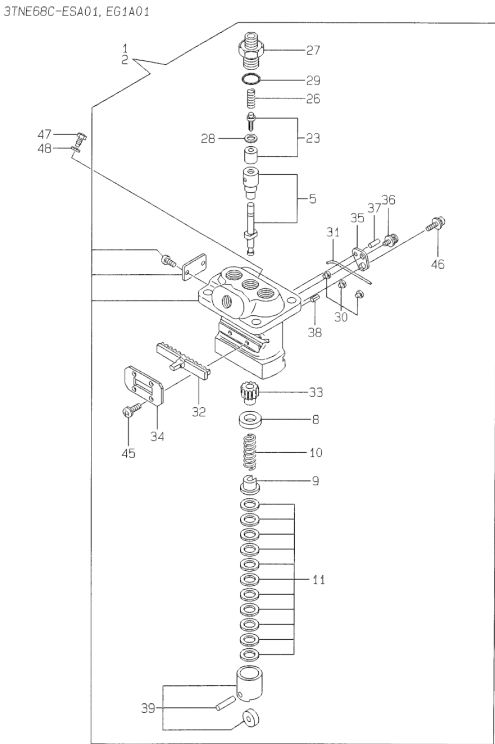


Remarks
* FOR 3TNE68C-SA01,G1A01.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719225-51100	PUMP ASSY, INJECTION	1	1			1	1		
1-1	1	719266-51100	PUMP ASSY, INJECTION	1	1			1	1		N
		(A=E66336)	(B=E67574)	(D=E66041)	(E=E66126)						
2	1	719266-51100	PUMP ASSY, INJECTION					1			
5	2	119225-51100	PLUNGER ASSY	3	3	3	3	3			
8	2	119620-51170	RETAINER, SPRING A	3	3	3	3	3			
9	2	119620-51180	RETAINER, SPRING B	3	3	3	3	3			
10	2	119620-51190	SPRING, PLUNGER	3	3	3	3	3			
11	2	119620-51250	SHIM SET	3	3	3	3	3			
23	2	119225-51300	VALVE ASSY, DELIVERY	3	3	3	3	3			
26	2	105546-51330	SPRING, DELIVERY	3	3	3	3	3			
27	2	119620-51340	HOLDER, DELIVERY	3	3	3	3	3			
28	2	119620-51350	GASKET	3	3	3	3	3			
29	2	119620-51370	O-RING	3	3	3	3	3			
30	2	119620-51450	PIECE	3	3	3	3	3			
31	2	119620-51461	PIN	1	1	1	1	1			
32	2	119660-51500	RACK, CONTROL	1	1	1	1	1			
33	2	119620-51510	PINION	3	3	3	3	3			
34	2	119660-51530	RETAINER, RACK	1	1	1	1	1			
35	2	119620-51650	PLATE	2	2	2	2	2			
36	2	119620-51660	SCREW	2	2	2	2	2			
37	2	119620-51670	PIN	2	2	2	2	2			
38	2	119620-51680	PIN	1	1	1	1	1			
39	2	119620-51700	TAPPET ASSY	3	3	3	3	3			
45	2	26022-040082	SCREW, M4X 8	4	4	4	4	4			
46	2	26033-040102	SCREW, M4X10	2	2	2	2	2			
47	1	119266-51900	BOLT	1	1	1	1	1			W
		(A=E66336)	(B=E67574)	(C=E66040)	(D=E66041)	(E=E66126)					
48	1	22190-080002	WASHER, SEAL 6	1	1	1	1	1			W
		(A=E66336)	(B=E67574)	(C=E66040)	(D=E66041)	(E=E66126)					

Fig.13. FUEL INJECTION PUMP

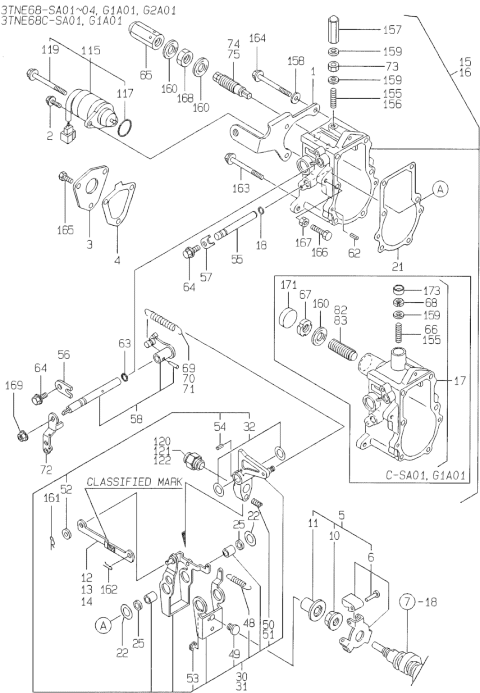


Remarks
* FOR 3TNE68C-ESA01,EG1A01.
(1) REFER TO FIG.16.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719215-51710	PUMP ASSY, INJECTION				1				W
			(D=E75137)								
2	1	719265-51700	PUMP ASSY, INJECTION					1			W
						(E=E66358)					
5	2	119225-51100	PLUNGER ASSY				3	3			
8	2	119620-51170	RETAINER, SPRING A				3	3			
9	2	119620-51180	RETAINER, SPRING B				3	3			
10	2	119620-51190	SPRING, PLUNGER				3	3			
11	2	119620-51250	SHIM SET				3	3			
23	2	119225-51300	VALVE ASSY, DELIVERY				3	3			
26	2	105546-51330	SPRING, DELIVERY				3	3			
27	2	119620-51340	HOLDER, DELIVERY				3	3			
28	2	119620-51350	GASKET				3	3			
29	2	119620-51370	O-RING				3	3			
30	2	119620-51450	PIECE				3	3			
31	2	119620-51461	PIN				1	1			
32	2	119660-51500	RACK, CONTROL				1	1			
33	2	119620-51510	PINION				3	3			
34	2	119660-51530	RETAINER, RACK				1	1			
35	2	119620-51650	PLATE				2	2			
36	2	119620-51660	SCREW				2	2			
37	2	119620-51670	PIN				2	2			
38	2	119620-51680	PIN				1	1			
39	2	119620-51700	TAPPET ASSY				3	3			
45	2	26022-040082	SCREW, M4X 8				4	4			
46	2	26033-040102	SCREW, M4X10				2	2			
47	1	119266-51900	BOLT				1	1		Z	1
			(D=E75136)			(E=E66358)					
48	1	22190-080002	WASHER, SEAL 6				1	1		Z	1
			(D=E75136)			(E=E66358)					

Fig.14. GOVERNOR



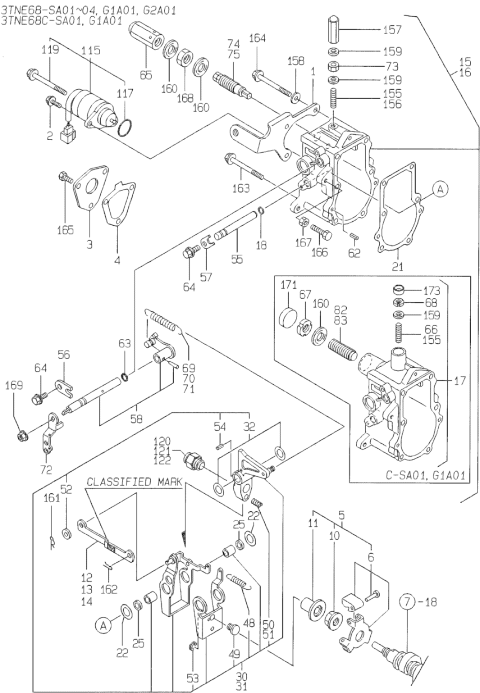
Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) REPAIR PART.
* FOR 3TNE68C-SA01,G1A01.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119288-55901	BRACKET, FILTER	1	1	1	1	1	1		
2	1	121465-59950	BOLT, M6X16	1	1	1	1	1	1		
3	1	119660-61060	COVER, GOVERNOR CASE	1	1	1	1	1	1		
4	1	119660-61071	GASKET	1	1	1	1	1	1		
5	1	119600-61100	DRIVE ASSY	1	1	1	1	1	1		
6	2	119600-61200	WEIGHT ASSY,GOVERNOR	1	1	1	1	1	1		
10	2	119660-61300	NUT	1	1	1	1	1	1		
11	2	119660-61341	SLEEVE	1	1	1	1	1	1		
12	1	119660-61121	LINK, NO MARK	1	1	1	1	1	1		1
13	1	119660-61140	LINK, MARK :2	1	1	1	1	1	1		1
14	1	119660-61150	LINK, MARK :3	1	1	1	1	1	1		1
15	1	119632-61200	CASE ASSY, GOVERNOR	1	1						
16	1	119288-61200	CASE ASSY, GOVERNOR			1					
17	1	119623-61200	CASE ASSY, GOVERNOR					1	1		
18	2	129155-51280	O-RING, S6	1	1	1	1	1	1		
21	2	119660-61052	GASKET	1	1	1	1	1	1		
22	2	119660-61460	SHIM SET	1	1	1	1	1	1		
25	2	129155-61480	SPACER ASSY	2	2	2	2	2	2		
30	2	119232-61550	LEVER ASSY, GOVERNOR	1	1			1	1		
30-1	2	119232-61510	LEVER ASSY, GOVERNOR	1	1			1	1		N
(A=E-XXX) (B=E-XXX) (D=E-XXX) (E=E-XXX)											
31	2	119288-61510	LEVER ASSY, GOVERNOR			1					
32	3	174307-51700	SHIM SET	2	2	2	2	2	2		
48	3	119232-61540	SPRING	1	1	1	1	1	1		
49	3	119600-61541	SHIFTER	1	1	1	1	1	1		
50	3	119660-61651	SPRING, STARTING	1	1			1	1		
51	3	119600-61650	SPRING, STARTING			1					
52	3	22117-040000	WASHER, 4	1	1	1	1	1	1		
53	3	22272-000040	RING, E- 4	1	1	1	1	1	1		
54	3	22351-030014	PIN, SPRING 3.0X14	1	1	1	1	1	1		
55	2	119660-61491	SHAFT	1	1	1	1	1	1		
55-1	2	119660-61590	SHAFT	1	1	1	1	1	1		N
(A=E-XXX) (B=E-XXX) (C=E-XXX) (D=E-XXX) (E=E-XXX)											
56	2	119600-61900	RETAINER, SHAFT	1	1	1	1	1	1		
57	2	119660-61901	RETAINER, SHAFT	1	1	1	1	1	1		
58	2	119285-66080	SHAFT ASSY	1	1	1	1	1	1		
62	2	22351-040010	PIN, SPRING 4.0X10	2	2	2	2	2	2		
63	2	24341-000070	O-RING, 1AS7.0	1	1	1	1	1	1		
64	2	26106-060102	BOLT, M6X 10 PLATED	2	2	2	2	2	2		
65	1	129100-61930	NUT, CAP	1	1	1					
66	1	119988-61460	BOLT, LIMITER						1		
67	1	119685-61940	NUT, M12						1	1	
68	1	119685-61950	NUT, M6						1	1	
69	1	119600-66020	SPRING, REGULATOR	1					1		
70	1	119260-66010	SPRING, REGULATOR			1					
71	1	119489-66010	SPRING, REGULATOR		1					1	
72	1	119621-66051	LEVER, REGULATOR	1	1	1	1	1	1		
73	1	124550-66370	NUT, M6	1	1	1					
74	1	119600-66530	LIMITER ASSY, FUEL	1							
75	1	119629-66510	LIMITER ASSY, FUEL		1	1					
82	1	119621-66500	LIMITER ASSY, FUEL						1		

OCR10-M52500

Fig.14. GOVERNOR



OCR10-M52500 Fig.14

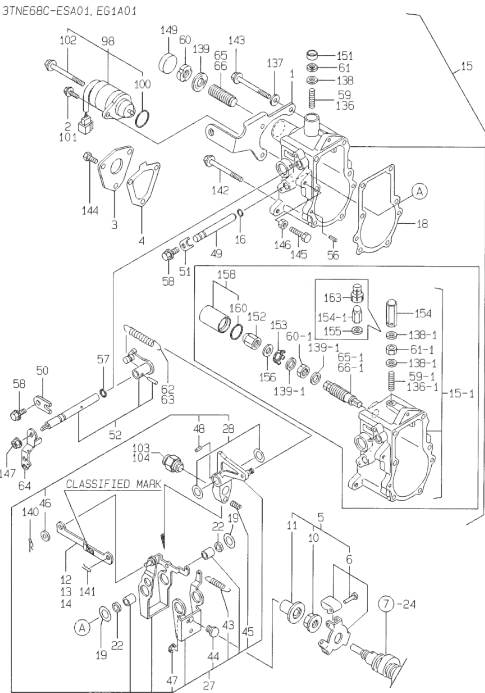
(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
83	1	119489-66500	LIMITER ASSY, FUEL								1
115	1	119653-66500	STOPPER ASSY	1	1	1	1	1			
117	2	24341-000280	O-RING, 1AS28.0	1	1	1	1	1			
119	2	26106-060952	BOLT, M6X 95 PLATED	1	1	1	1	1			
119-1	2	119620-01530	BOLT	1	1	1	1	1			N
(A=E000) (B=E000) (C=E000) (D=E000) (E=E000)											
120	1	119654-66700	ANGLEICH ASSY	1				1			
121	1	119610-66700	ANGLEICH ASSY		1			1			
122	1	119260-66720	ANGLEICH ASSY			1					
155	1	121575-66830	SCREW	1		1		1			
156	1	171002-66830	SCREW		1						
157	1	119600-66840	NUT, CAP	1	1	1					
158	1	22111-060000	WASHER 6	3	3	3	3	3			
159	1	22190-060003	WASHER, SEAL 6	2	2	2	1	1			
160	1	22190-120002	WASHER, SEAL 12	2	2	2	1	1			
161	1	22360-040000	PIN, SNAP 4	1	1	1	1	1			
162	1	22360-060000	PIN, SNAP 6	1	1	1	1	1			
163	1	26106-060702	BOLT, M6X 70 PLATED	2	2	2	2	2			
164	1	26106-060752	BOLT, M6X 75 PLATED	3	3	3	3	3			
165	1	26116-050102	BOLT, M5X 10 PLATED	3	3	3	3	3			
166	1	26116-060304	BOLT, M6X 30 PLATED	1	1	1	1	1			
167	1	26756-060002	NUT, LOCK M6	1	1	1	1	1			
168	1	26776-120002	NUT, LOCK M12	1	1	1					
168-1	1	26736-120002	NUT, M12	1	1	1					N
(A=E77768) (B=E79427) (C=E77758)											
169	1	194990-22050	NUT, M8	1	1	1	1	1			
169-1	1	26366-080002	NUT, M8	1	1	1					N
(A=E000) (B=E000) (C=E000)											
171	1	119621-66610	PLUG, 22				1	1			2
173	1	119621-66710	PLUG, 14				1	1			2

Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) REPAIR PART.
* FOR 3TNE68C-SA01,G1A01.

OCR10-M52500

Fig.15. GOVERNOR



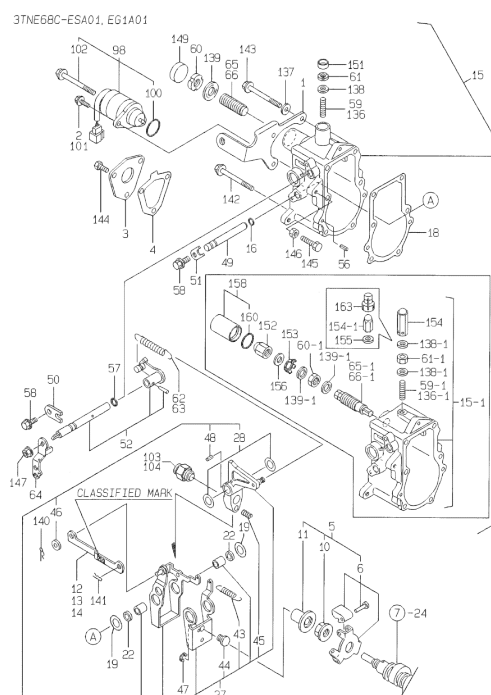
Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) REPAIR PART.
* FOR 3TNE68C-ESA01,EG1A01.

OCR10-M52500 Fig.15

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119288-55901	BRACKET, FILTER				1	1			
2	1	121465-59950	BOLT, M6X16				1	1		Z	
(D=E75136)											
3	1	119660-61060	COVER, GOVERNOR CASE				1	1			
4	1	119660-61071	GASKET				1	1			
5	1	119600-61300	DRIVE ASSY				1	1			
6	2	119600-61400	WEIGHT ASSY,GOVERNOR				1	1			
10	2	119660-61300	NUT				1	1			
11	2	119660-61341	SLEEVE				1	1			
12	1	119660-61121	LINK, NO MARK				1	1			1
13	1	119660-61140	LINK, MARK :2				1	1			1
14	1	119660-61150	LINK, MARK :3				1	1			1
15	1	119623-61200	CASE ASSY, GOVERNOR				1	1			
15-1	1	119632-61200	CASE ASSY, GOVERNOR				1	1		S	
(D=E75136) (E=E66358)											
16	2	129155-51280	O-RING, S6				1	1			
18	2	119660-61052	GASKET				1	1			
19	2	119660-61460	SHIM SET				1	1			
22	2	129155-61480	SPACER ASSY				2	2			
27	2	119232-61510	LEVER ASSY, GOVERNOR				1	1			
28	3	174307-51700	SHIM SET				2	2			
43	3	119232-61540	SPRING				1	1			
44	3	119600-61541	SHIFTER				1	1			
45	3	119660-61651	SPRING, STARTING				1	1			
46	3	22117-040000	WASHER, 4				1	1			
47	3	22272-000040	RING, E- 4				1	1			
48	3	22351-030014	PIN, SPRING 3.0X14				1	1			
49	2	119660-61590	SHAFT				1	1			
50	2	119600-61900	RETAINER, SHAFT				1	1			
51	2	119660-61901	RETAINER, SHAFT				1	1			
52	2	119285-66080	SHAFT ASSY				1	1			
56	2	22351-040010	PIN, SPRING 4.0X10				2	2			
57	2	24341-000070	O-RING, 1AS7.0				1	1			
58	2	26106-060102	BOLT, M6X 10 PLATED				2	2			
59	1	119988-61460	BOLT, LIMITER				1				
59-1	1	121575-66830	SCREW				1			S	
(D=E75136)											
60	1	119685-61940	NUT, M12				1	1			
60-1	1	26776-120002	NUT, LOCK M12				1	1		S	
(D=E75136) (E=E66358)											
60-2	1	26736-120002	NUT, M12				1	1		N	
(D=EXXX) (E=EXXX)											
61	1	119685-61950	NUT, M6				1	1			
61-1	1	124550-66370	NUT, M6				1	1		S	
(D=E75136) (E=E66358)											
61-2	1	26857-060002	NUT, M6				1	1		N	
(D=EXXX) (E=EXXX)											
62	1	119600-66020	SPRING, REGULATOR				1				
62-1	1	119245-66010	SPRING, REGULATOR				1			N	
(D=E75136)											
63	1	119489-66010	SPRING, REGULATOR					1			

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) REPAIR PART.
* FOR 3TNE68C-ESA01,EG1A01.

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
64	1	119621-66051	LEVER, REGULATOR				1	1			
65	1	119621-66500	LIMITER ASSY, FUEL				1				
65-1	1	119600-66530	LIMITER ASSY, FUEL				1			S	
66	1	119489-66500	LIMITER ASSY, FUEL	(D=E75136)				1			
66-1	1	119629-66510	LIMITER ASSY, FUEL					1		S	
98	1	119653-66500	STOPPER ASSY		(E=E66358)		1	1			
100	2	24341-000280	O-RING, 1AS28.0				1	1			
101	2	26106-060162	BOLT, M6X 16 PLATED			(E=FROM 1ST)	1	1		Z	
102	2	26106-060952	BOLT, M6X 95 PLATED				1	1			
102-1	2	119620-01530	BOLT				1	1		N	
103	1	119610-66700	ANGLEICH ASSY	(D=EXXX)	(E=EXXX)			1			
104	1	119654-66700	ANGLEICH ASSY				1				
104-1	1	119600-66720	ANGLEICH ASSY							N	
136	1	121575-66830	SCREW	(D=EXXX)				1			
136-1	1	171002-66830	SCREW					1		S	
137	1	22111-060000	WASHER 6				3	3			
137-1	1	22111-060000	WASHER 6	(D=E75136)	(E=E66358)		2	2		K	
138	1	22190-060003	WASHER, SEAL 6				1	1			
138-1	1	22190-060003	WASHER, SEAL 6	(D=E75136)	(E=E66358)		2	2		K	
138-2	1	22190-060003	WASHSE, SEAL	(D=EXXX)	(E=EXXX)		1	1		K	
139	1	22190-120002	WASHER, SEAL 12				1	1			
139-1	1	22190-120002	WASHER, SEAL 12	(D=E75136)	(E=E66358)		2	2		K	
140	1	22360-040000	PIN, SNAP 4				1	1			
141	1	22360-060000	PIN, SNAP 6				1	1			
142	1	26106-060702	BOLT, M6X 70 PLATED				2	2			
143	1	26106-060752	BOLT, M6X 75 PLATED				3	3			
144	1	26116-050102	BOLT, M5X 10 PLATED				3	3			
145	1	26116-060304	BOLT, M6X 30 PLATED				1	1			
145-1	1	119266-61460	BOLT	(D=E75137)	(E=E66358)		1	1		R	
146	1	26756-060002	NUT, LOCK M6				1	1			
147	1	194990-22050	NUT, M8				1	1			
147-1	1	26366-080002	NUT, M8			(E=EXXX)			1	N	
149	1	119621-66610	PLUG, 22	(D=E75136)	(E=E66358)		1	1		Z	2
151	1	119621-66710	PLUG, 14	(D=E75136)	(E=E66358)		1	1		Z	2
152	1	129100-61930	NUT, CAP	(D=E75136)	(E=E66358)		1	1		W	
153	1	129209-61970	PLATE	(D=E75136)	(E=E66358)		1	1		W	

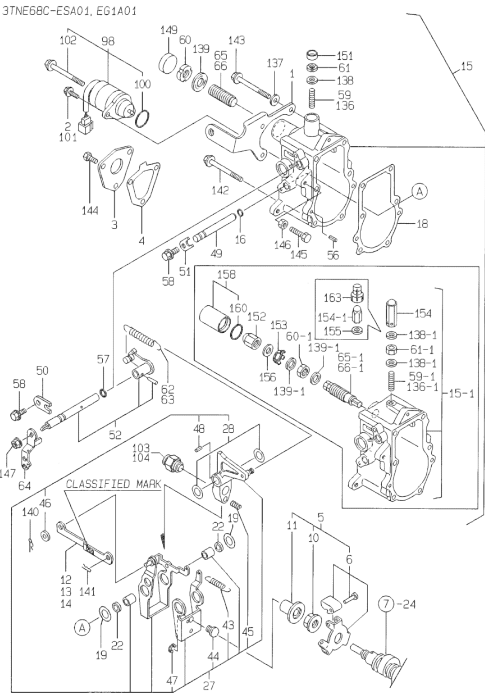
N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++ Copyright (C) YANMAR CO., LTD. All Rights Reserved.

OCR10-M52500

Fig.15. GOVERNOR

OCR10-M52500 Fig.15

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

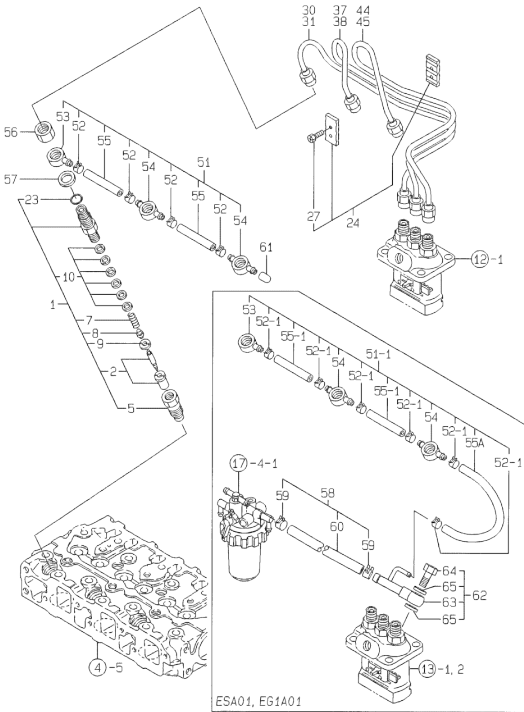


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
154	1	119600-66840	NUT, CAP	(D=E75136)	(E=E66358)		1	1		W	
154-1	1	119285-66600	NUT, CAP M6	(D=E75136)	(E=E66358)		1	1		S	
155	1	119285-66620	GASKET	(D=E75136)	(E=E75136)		1	1		W	
156	1	23414-120016	GASKET, 12X1.0	(D=E75136)	(E=E66358)		1	1		W	
158	1	129209-61940	CASE ASSY	(D=E75136)	(E=E66358)		1	1		W	
160	2	24311-000150	O-RING, 1AP15.0	(D=E75136)	(E=E66358)		1	1		W	
163	1	119285-66650	CAP, HIGH-IDLE	(D=E75136)	(E=E75136)		1	1		W	2

Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) REPAIR PART.
* FOR 3TNE68C-ESA01,EG1A01.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.16. FUEL INJECTION VALVE



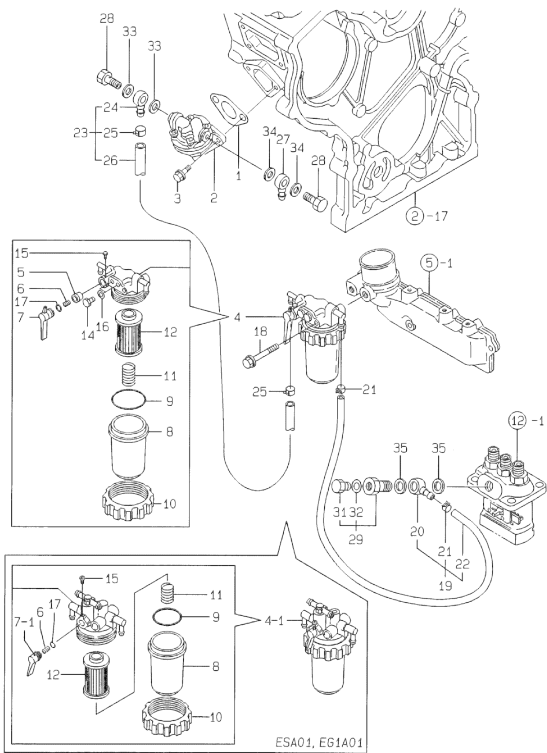
ESA01, EG1A01

Remarks
(1) FOR 3TNE68C-ESA01,EG1A01.
(2) FOR 3TNE68C-SA01,G1A01.

OCR10-M52500 Fig.16
(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719620-53700	VALVE ASSY,INJECTION	3	3	3	3	3			
2	2	119620-53000	VALVE ASSY,INJECTION	3	3	3	3	3			
5	2	119620-53080	NUT, NOZZLE	3	3	3	3	3			
7	2	119620-53120	SPRING, NOZZLE	3	3	3	3	3			
8	2	114250-53130	SEAT, SPRING	3	3	3	3	3			
9	2	119620-53140	SPACER, VALVE STOP	3	3	3	3	3			
10	2	114250-53400	SHIM SET	3	3	3	3	3			
23	2	129155-61830	O-RING, S10	3	3	3	3	3			
24	1	129150-59120	RETAINER, PIPE	1	1	1	1	1			
27	2	129150-59131	BOLT, M4X14	2	2	2	2	2			
30	1	119209-59810	PIPE ASSY, INJECTION	1	1			1			
31	1	119225-59810	PIPE ASSY, INJECTION			1					
37	1	119209-59820	PIPE ASSY, INJECTION	1	1		1	1			
38	1	119260-59820	PIPE ASSY, INJECTION			1					
44	1	119209-59830	PIPE ASSY, INJECTION	1	1		1	1			
45	1	119260-59830	PIPE ASSY, INJECTION			1					
51	1	119260-59540	PIPE ASSY, RETURN	1	1	1	1	1			
51-1	1	119266-59540	PIPE ASSY, FUEL				1	1		N	1
52	2	124066-59100	CLIP, HOSE 8	(D=E75136) (E=E66358)							
52-1	2	124066-59100	CLIP, HOSE 8	4	4	4	4	4			
53	2	119260-59520	JOINT				6	6		K	1
54	2	119260-59530	JOINT	1	1	1	1	1			
55	2	119260-59550	PIPE, FUEL	2	2	2	2	2			
55-1	2	105025-59550	PIPE, FUEL RETURN	2	2	2	2	2		N	1
55A	2	119000-59560	PIPE, FUEL RETURN	(D=E75136) (E=E66358)							
56	1	119620-59700	NUT, NOZZLE	3	3	3	3	3			
57	1	23414-140000	GASKET, 14X1.0	3	3	3	3	3			
57-1	1	22190-140002	WASHER, SEAL 14	3	3	3	3	3		N	
(A=E64118) (B=E64345) (C=E64120) (D=E64240) (E=E64359)											
58	1	719255-59560	PIPE ASSY, FUEL L190				1	1		W	1
59	2	124766-59050	CLIP, HOSE 12	(D=E75136) (E=E66358)							
60	2	119225-59560	PIPE, FUEL				2	2		W	1
61	1	119309-59590	CAP, 4.2	(D=E75136) (E=E66358)							
(A=E74819) (B=E79427) (C=E74659) (D=E64468) (E=E65241)				1	1	1	1	1		W	2
62	1	119266-59501	JOINT ASSY, PIPE				1	1		W	1
63	2	119266-59570	JOINT, OVER FLOW	(D=E75136) (E=E66358)							
64	2	119266-59580	BOLT, PIPE JOINT M8				1	1		W	1
65	2	22190-080002	WASHER, SEAL 6	(D=E75136) (E=E66358)							
							2	2		W	1

Fig.17. FUEL FILTER

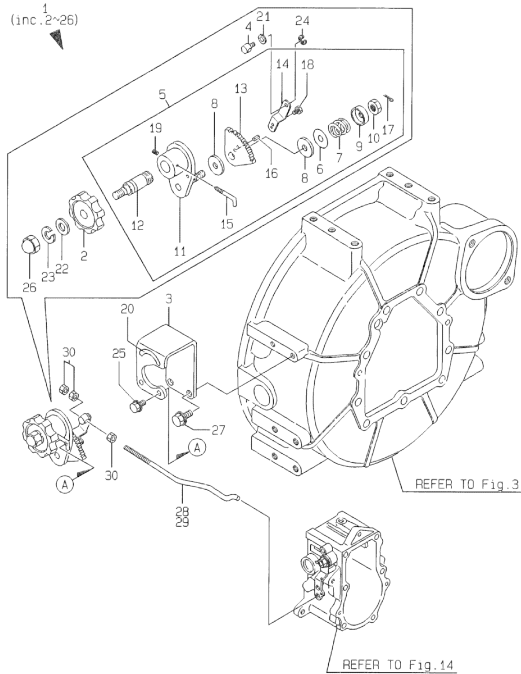


Remarks
(1) FOR 3TNE68C-ESA01,EG1A01.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-01851	GASKET	1	1	1	1	1			
2	1	119600-52021	PUMP ASSY, FUEL FEED	1	1	1	1	1			
3	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2	2	2			
4	1	171059-55600	FILTER ASSY, FUEL	1	1	1	1	1			
4-1	1	119255-55620	FILTER ASSY, FUEL					1	1	N	1
(D=E75136)				(E=E66358)							
5	2	104200-55321	VALVE, TAPER	1	1	1	1	1		Z	
(D=E75136)				(E=E66358)							
6	2	104200-55330	SPRING, VALVE	1	1	1	1	1			
7	2	104200-55341	HANDLE	1	1	1	1	1			
7-1	2	119810-55340	LEVER				1	1		N	1
(D=E75136)				(E=E66358)							
8	2	121254-55510	COVER	1	1	1	1	1			
9	2	102103-55520	O-RING	1	1	1	1	1			
10	2	110250-55610	RING, RETAINING	1	1	1	1	1			
11	2	121250-55620	SPRING	1	1	1	1	1			
12	2	124550-55700	FILTER, FUEL L=90	1	1	1	1	1			
14	2	101720-55750	PLUG, 6	2	2	2	2	2		Z	
(D=E75136)				(E=E66358)							
15	2	104200-55750	SCREW, M4	1	1	1	1	1			
16	2	23418-060000	GASKET, 6X1.0	2	2	2	2	2		Z	
(D=E75136)				(E=E66358)							
17	2	24311-240100	O-RING, 1AP10A	1	1	1	1	1			
18	1	26014-080702	BOLT, M8X 70	1	1	1	1	1			
19	1	119621-59010	PIPE ASSY, FUEL	1	1	1	1	1			
20	2	101304-59020	JOINT, PIPE 12	1	1	1	1	1			
21	2	124766-59050	CLIP, HOSE 12	2	2	2	2	2			
22	2	121024-59090	PIPE, FUEL D12X450	1	1	1	1	1			
23	1	119260-59020	PIPE ASSY, D12XL400	1	1	1	1	1			
24	2	104264-59030	JOINT, PIPE 8	1	1	1	1	1			
25	2	124766-59050	CLIP, HOSE 12	2	2	2	2	2			
26	2	121024-59090	PIPE, FUEL D12X450	1	1	1	1	1			
27	1	104264-59030	JOINT, PIPE 8	1	1	1	1	1			
28	1	105582-59150	BOLT, PIPE JOINT	2	2	2	2	2			
29	1	103854-59191	BOLT ASSY, JOINT M12	1	1	1	1	1			
31	2	124060-59380	PLUG, 6	1	1	1	1	1			
32	2	22190-060002	WASHER, SEAL 6	1	1	1	1	1			
33	1	22190-080002	WASHER, SEAL 6	2	2	2	2	2			
34	1	22190-080002	WASHER, SEAL 6	2	2	2	2	2			
35	1	104200-59170	GASKET, 12	2	2	2	2	2			
35-1	1	22190-120002	WASHER, SEAL 12	2	2	2	2	2		N	
(A=E64118) (B=E64345) (C=E64120) (D=E64240) (E=E64359)											

Fig.18. ENGINE CONTROL DEVICE



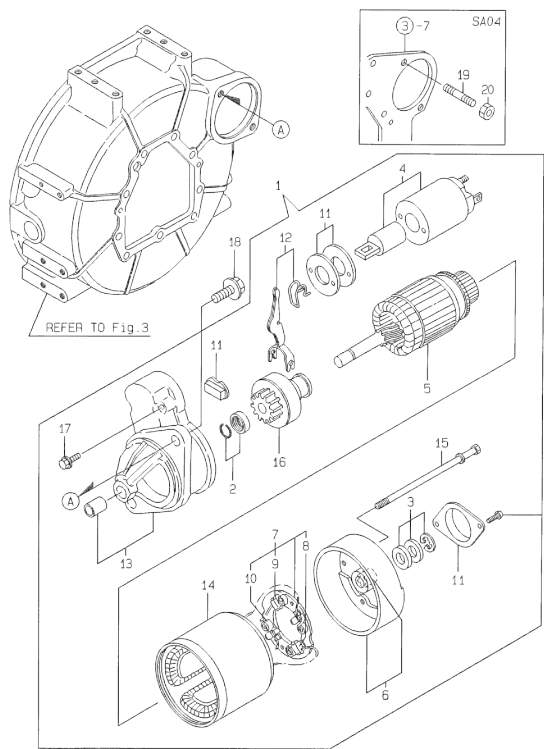
(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-66160	CONTROLLER ASSY	1	1	1	1	1	1		
2	2	126650-66020	HANDLE, REGULATOR	1	1	1	1	1	1		
3	2	119888-66110	BRACKET	1	1	1	1	1	1		
4	2	119888-66130	PIVOT	1	1	1	1	1	1		
5	2	171048-67010	CONTROLLER ASSY	1	1	1	1	1	1		
6	3	171102-66080	WASHER	1	1	1	1	1	1		
7	3	104200-66820	SPRING	1	1	1	1	1	1		
8	3	104200-66830	PLATE, FRICTION	2	2	2	2	2	2		
9	3	104200-66850	WASHER	1	1	1	1	1	1		
10	3	104200-66860	NUT	1	1	1	1	1	1		
11	3	171085-67100	BRACKET	1	1	1	1	1	1		
12	3	171085-67110	SHAFT, DRIVE	1	1	1	1	1	1		
13	3	171085-67120	GEAR	1	1	1	1	1	1		
14	3	171048-67130	LEVER	1	1	1	1	1	1		
15	3	171048-67140	STOPPER	1	1	1	1	1	1		
16	3	22351-020006	PIN, SPRING 2.0X 6	1	1	1	1	1	1		
17	3	22411-200150	PIN 2.0* 15	1	1	1	1	1	1		
18	3	26116-060082	BOLT, M6X 8 PLATED	1	1	1	1	1	1		
19	3	26921-050122	SCREW, M5X12	1	1	1	1	1	1		
20	2	170064-67210	LABEL, HANDLE	1	1	1	1	1	1		
21	2	22117-060000	WASHER, 6	1	1	1	1	1	1		
22	2	22137-100000	WASHER, 10	1	1	1	1	1	1		
23	2	22217-100000	WASHER, SPRING 10	1	1	1	1	1	1		
24	2	22272-000050	RING, E- 5	1	1	1	1	1	1		
25	2	26106-060102	BOLT, M6X 10 PLATED	2	2	2	2	2	2		
26	2	26657-100002	NUT, CAP M10	1	1	1	1	1	1		
27	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2	2	2		
28	1	119288-66120	LINK, ENGINE CONTROL	1	1			1	1		
29	1	119288-66160	LINK, ENGINE CONTROL			1					
30	1	26756-050002	NUT, LOCK M5	3	3	3	3	3	3		

Remarks
* FOR 3TNE68-SA01,02,03.

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.19. STARTING MOTOR

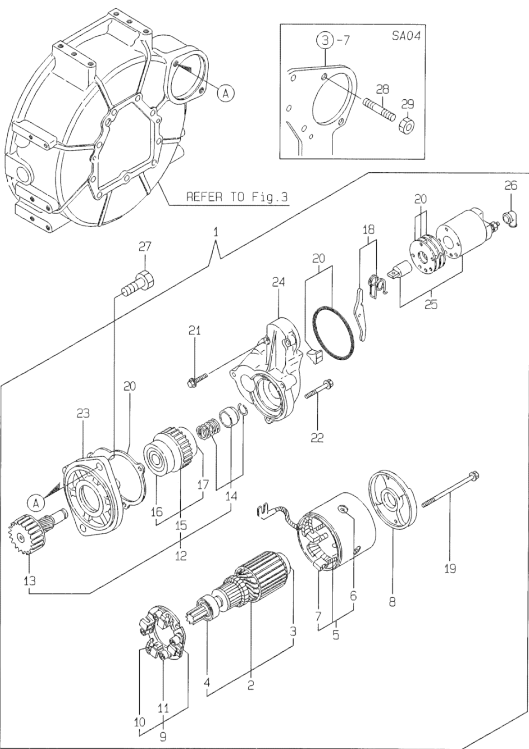


Remarks
(1) FOR 3TNE68-SA04.
(2) FOR 3TNE68-SA01,02,03.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119631-77011	STARTING MOTOR	1	1	1	1	1			
2	2	X2114715500	STOPPER SET, PINION	1	1	1	1	1			
3	2	X2114811000	WASHER KIT, THRUST	1	1	1	1	1			
4	2	124298-77020	SWITCH, MAGNETIC	1	1	1	1	1			
5	2	114371-77110	ARMATURE	1	1	1	1	1			
6	2	114371-77140	COVER ASSY, REAR	1	1	1	1	1			
7	2	114371-77160	HOLDER ASSY, BRUSH	1	1	1	1	1			
8	3	114371-79040	BRUSH (-)	2	2	2	2	2			
9	3	114371-79050	BRUSH (+)	1	1	1	1	1			
10	3	114371-79060	SPRING, BRUSH	4	4	4	4	4			
11	2	114371-77170	COVER KIT, DUST	1	1	1	1	1			
12	2	114371-77180	LEVER KIT, SHIFT	1	1	1	1	1			
13	2	119631-77651	CASE ASSY, GEAR	1	1	1	1	1			
14	2	124097-77710	YOKE ASSY	1	1	1	1	1			
15	2	124195-77770	THROUGH BOLT	2	2	2	2	2			
16	2	119631-77780	PINION ASSY	1	1	1	1	1			
17	2	114371-79070	BOLT M 6X 37	2	2	2	2	2			
18	1	26116-120252	BOLT, M12X 25 PLATED	2	2	2	2	2			2
19	1	26156-120302	BOLT, M12X 30 PLATED	2							1
20	1	26736-120002	NUT, M12	2							1

Fig.20. STARTING MOTOR(COLD DISTRICT)

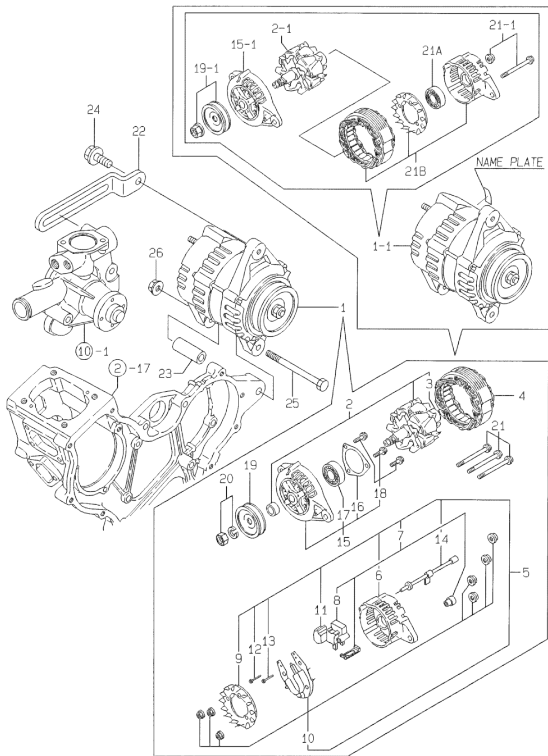


Remarks
(1) FOR 3TNE68-SA04.
(2) FOR 3TNE68-SA01,02,03.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119256-77010	MOTOR ASSY, STARTING	1	1	1	1	1	1		
2	2	X211461005	ARMATURE	1	1	1	1	1	1		
3	3	X2130350900	BALL BEARING	1	1	1	1	1	1		
4	3	X211425511	BALL BEARING	1	1	1	1	1	1		
5	2	X211442003	COIL ASSY, FIELD	1	1	1	1	1	1		
6	3	X21143215	SCREW, CORE	4	4	4	4	4	4		
7	3	X211469002	BRUSH (+)	2	2	2	2	2	2		
8	2	X211483003	COVER	1	1	1	1	1	1		
9	2	X211439001	HOLDER ASSY, BRUSH	1	1	1	1	1	1		
10	3	X211459002	BRUSH (-)	2	2	2	2	2	2		
11	3	X21147314	SPRING, BRUSH	4	4	4	4	4	4		
12	2	X211465505	CLUTCH ASSY, PINION	1	1	1	1	1	1		
13	3	X211465504	SHAFT, PINION	1	1	1	1	1	1		
14	3	X211429006	STOPPER SET	1	1	1	1	1	1		
15	3	X2114555500	CLUTCH ASSY	1	1	1	1	1	1		
16	4	X211495502	BEARING, BALL	1	1	1	1	1	1		
17	4	X224041010	BEARING, BALL	1	1	1	1	1	1		
18	2	X211476012	LEVER	1	1	1	1	1	1		
19	2	X211468005	BOLT, THROUGH	2	2	2	2	2	2		
20	2	171008-77571	DUST COVER,(NON-ASB.	1	1	1	1	1	1		
21	2	X21145866	BOLT	2	2	2	2	2	2		
22	2	X21142867	BOLT	3	3	3	3	3	3		
23	2	X2114765040	CASE ASSY, GEAR	1	1	1	1	1	1		
24	2	X2114145010	CENTER HOUSING	1	1	1	1	1	1		
25	2	171008-77531	MAGNETIC SWITCH ASSY	1	1	1	1	1	1		
26	2	X21142742	COVER (A), RUBBER	1	1	1	1	1	1		
27	1	26116-120252	BOLT, M12X 25 PLATED	2	2	2	2	2	2		2
28	1	26156-120302	BOLT, M12X 30 PLATED	2							1
29	1	26736-120002	NUT, M12	2							1

Fig.21. GENERATOR

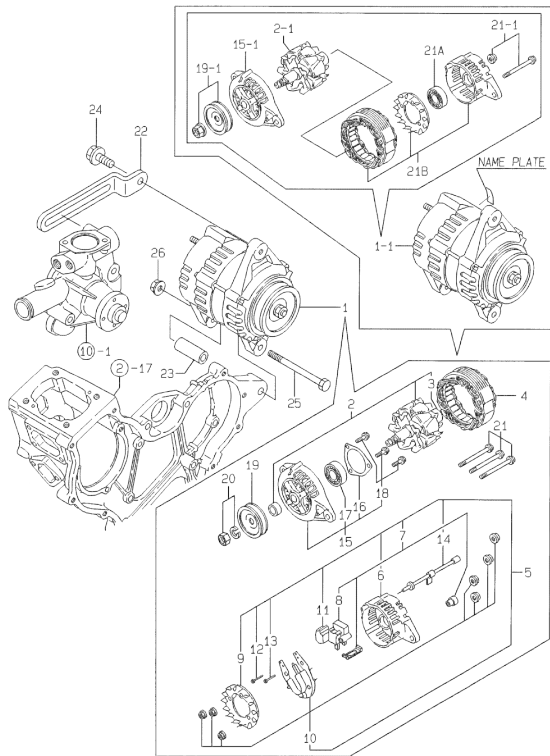


Remarks
(1) CERTAIN THE NAME PLATE.THEN PLACE
YOUR ORDER.(REFER TO ILLUSTRATION)

(A)=3TNE68-SA
(D)=3TNE68C(E)SA
(B)=3TNE68-G1A01
(E)=3TNE68C(E)G1
(C)=3TNE68-G2A01
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1	1	1	1	1			
1-1	1	119836-77201	GENERATOR (AC)	1	1	1	1	1			R
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
1-2	1	119624-77201	GENERATOR	1	1	1	1	1			N
		(A=E70457) (B=E70823) (C=E70482) (D=E75136)				(E=E66359)					
2	2	119836-77700	ROTOR ASSY	1	1	1	1	1			
2-1	2	129612-77700	ROTOR ASSY	1	1	1	1	1			S
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
3	3	119836-77850	BALL BEARING	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
4	2	119836-77710	STATOR ASSY	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
5	2	119836-77721	COVER ASSY, REAR	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
6	3	119836-77730	COVER, REAR	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
7	3	119836-77741	BRUSH ASSY,REGULATOR	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
8	4	119836-77750	BRUSH ASSY	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
9	3	119836-77760	GUIDE, FAN SIDE	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
10	3	119836-77770	DIODE ASSY	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
11	3	119836-77780	CONDENSER	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
12	3	119836-77871	BOLT (1)	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
13	3	119836-77880	BOLT (2)	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
14	3	119836-77890	WIRE ASSY, LEAD	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
15	2	119836-77790	COVER ASSY, FRONT	1	1	1	1	1			
15-1	2	129612-77730	BRACKET ASSY, FILTER	1	1	1	1	1			S
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
16	3	119836-77800	RETAINER, BEARING	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
17	3	119836-77840	BALL BEARING	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
18	3	119836-77860	SCREW KID	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
19	2	119836-77810	PULLEY	1	1	1	1	1			
19-1	2	129612-77740	PULLEY	1	1	1	1	1			S
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
19-2	2	119624-77720	PULLEY	1	1	1	1	1			S 1
		(A=E70457) (B=E70823) (C=E70482) (D=E75136)				(E=E66359)					
20	2	119836-77820	NUT ASSY, PULLEY	1	1	1	1	1			Z
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					
21	2	119836-77830	BOLT, THROUGH	1	1	1	1	1			
21-1	2	129612-77750	SCREW KIT	1	1	1	1	1			S
		(A=E65609) (B=E65620) (C=E65487) (D=E65477)				(E=E66358)					

Fig.21. GENERATOR

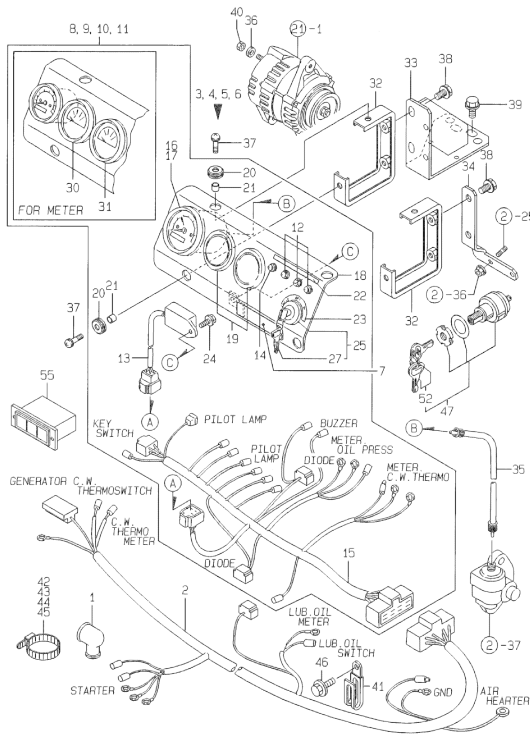


Remarks
(1) CERTAIN THE NAME PLATE.THEN PLACE
YOUR ORDER.(REFER TO ILLUSTRATION)

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
21A	2	129612-77710	BEARING, BALL	1	1	1	1	1		W	
(A=E65609) (B=E65620) (C=E65487) (D=E65477) (E=E66358)											
21B	2	119836-77920	BRACKET ASSY	1	1	1	1	1		W	
(A=E65609) (B=E65620) (C=E65487) (D=E65477) (E=E66358)											
21B-1	2	129612-77760	BRACKET ASSY, REAR	1	1	1	1	1		S	1
(A=E70457) (B=E70823) (C=E70482) (D=E75136) (E=E66359)											
22	1	119225-77330	ADJUSTER	1	1	1	1	1			
23	1	129150-77340	SPACER	1	1	1	1	1			
24	1	26106-080182	BOLT, M8X 18 PLATED	1	1	1	1	1			
25	1	26106-081052	BOLT, M8X105 PLATED	1	1	1	1	1			
26	1	26366-080002	NUT, M8	1	1	1	1	1			
26-1	1	26306-080002	NUT, M8	1	1	1	1	1		N	
(A=E65609) (B=E65620) (C=E65487) (D=E65477) (E=E66358)											

Fig.22. PANEL

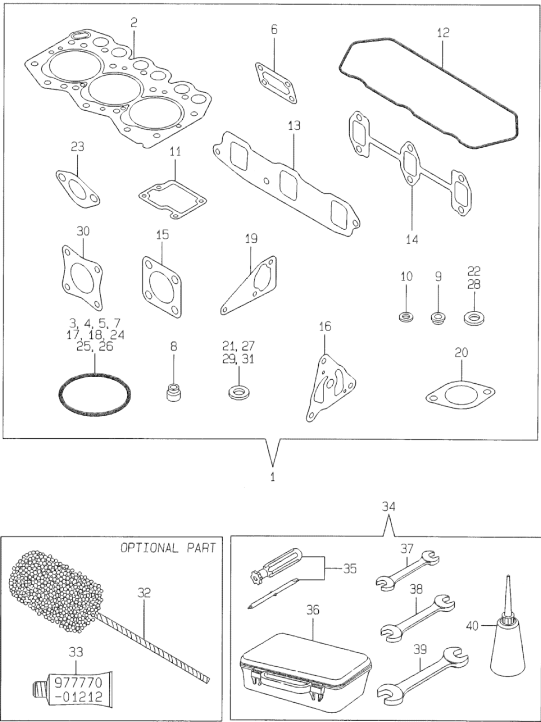


Remarks
(1) WITH C.W.THERMOMETER(REF.NO.30,
P/# 171010-77850) & PRESSURE
GAUGE(REF.NO.31,P/# 171090-91010).

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119773-77030	COVER	1	1	1	1	1			
1-1	1	124550-77030	COVER, TERMINAL	1	1	1	1	1			R
		(A=E000) (B=E000) (C=E000) (D=E000) (E=E000)									
2	1	119888-91022	HARNESS, WIRE	1	1	1	1	1			
3	1	119888-91101	PANEL ASSY	1	1	1	1	1			
4	1	119888-91301	PANEL ASSY, INSTRUM		1			1			
5	1	119888-91201	PANEL ASSY	1		1	1	1			1
6	1	119888-91311	PANEL ASSY		1			1			
7	2	104507-07190	LABEL, YANMAR	1	1	1	1	1			1
8	2	170121-91100	PANEL ASSY	1		1	1				
9	2	119888-91320	PANEL ASSY		1			1			
10	2	119888-91220	PANEL ASSY	1		1	1				
11	2	119888-91330	PANEL ASSY		1			1			1
12	3	124732-77720	LAMP, CHARGING	3	3	3	3	3			
13	3	128300-77920	TIMER	1	1	1	1	1			
14	3	124559-77971	LAMP, PILOT	1	1	1	1	1			
15	3	119888-91031	HARNESS, WIRE	1	1	1	1	1			
16	3	171080-91100	TACHOMETER	1		1	1				
16-1	3	171080-91101	TACHOMETER	1		1	1				N
		(A=E81089) (C=E81369) (D=E75137)									
17	3	171082-91100	TACHOMETER		1			1			
18	3	119888-91110	BODY, PANEL	1	1	1	1	1			
19	3	124770-91220	COVER	2	2	2	2	2			
20	3	121400-91520	ABSORBER	4	4	4	4	4			
21	3	121400-91530	SPACER	4	4	4	4	4			
22	3	119888-91610	LABEL, CW & OIL LAMP	1	1	1	1	1			
23	3	119888-91620	LABEL, KEY SWITCH	1	1	1	1	1			
24	3	26106-060102	BOLT, M6X 10 PLATED	1	1	1	1	1			
25	3	933110-00100	SWITCH ASSY, STARTER	1	1	1	1	1			
27	4	933110-00301	KEY ASSY	2	2	2	2	2			
30	3	171010-77850	THERMOSTAT	1	1	1	1	1			1
31	3	171090-91010	GAUGE	1	1	1	1	1			1
32	1	119888-91120	SUPPORT	2	2	2	2	2			
33	1	119288-91130	BRACKET, PANEL	1	1	1	1	1			
34	1	119288-91140	SUPPORT	1	1	1	1	1			
35	1	124701-91140	CABLE, L=985	1	1	1	1	1			
36	1	22117-050000	WASHER, 5	1	1	1	1	1			
37	1	26033-060202	SCREW W/WASHER 6* 20	4	4	4	4	4			
38	1	26106-080122	BOLT, M8X 12 PLATED	4	4	4	4	4			
39	1	26106-100502	BOLT, M10X 50 PLATED	2	2	2	2	2			
40	1	26716-050002	NUT, M5	1	1	1	1	1			
41	1	194180-51640	CLAMP, HARNESS	1	1	1	1	1			
42	1	121750-59890	BAND, 140			1					
43	1	121750-59890	BAND, 140	1	1	1	1	1			
44	1	121750-59890	BAND, 140	1	1			1			
45	1	121750-59890	BAND, 140	1	1			1			
46	1	26106-100122	BOLT, M10X 12 PLATED	1	1	1	1	1			
47	1	194215-52110	SWITCH, STARTING			1					
52	2	194155-52160	KEY ASSY			1					
55	1	170038-91310	UNIT, LAMP (RED)			1					

Fig.23. TOOL & GASKET SET



Remarks
(1) OPTIONAL PART.

(A)=3TNE68-SA
(B)=3TNE68-G1A01
(C)=3TNE68-G2A01
(D)=3TNE68C(E)SA
(E)=3TNE68C(E)G1
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719265-92790	GASKET SET	1	1	1	1	1			1
1-1	1	719265-92791	GASKET SET	1	1	1	1	1		N	1
		(A=E66790) (B=E66794) (C=E66710) (D=E75136) (E=E66358)									
2	2	119265-01341	GASKET, HEAD	1	1	1	1	1			
3	2	24311-000120	O-RING, 1AP12.0	2	2	2	2	2			
4	2	24311-000320	O-RING, 1AP32.0	2	2	2	2	2			
5	2	24341-000240	O-RING, 1AS24.0	1	1	1	1	1			
6	2	119660-01562	GASKET	1	1	1	1	1			
7	2	24311-000180	O-RING, 1AP18.0	1	1	1	1	1			
8	2	119260-11340	SEAL, VALVE STEM	6	6	6	6	6			
9	2	119600-11450	PROTECTOR, NOZZLE	3	3	3	3	3			
10	2	119600-11460	GASKET, NOZZLE	6	6	6	6	6			
11	2	119260-03031	GASKET	1	1	1	1	1			
12	2	119260-11310	GASKET, BONNET	1	1	1	1	1			
13	2	119270-12110	GASKET, MANIFOLD	1	1	1	1	1			
14	2	119260-13110	GASKET	1	1	1	1	1			
15	2	121000-13201	GASKET, SILENCER	3	3	3	3	3			
16	2	119660-32020	GASKET, PUMP	1	1	1	1	1			
17	2	24321-000600	O-RING, 1AG60.0	1	1	1	1	1			
18	2	24321-000700	O-RING, 1AG70.0	1	1	1	1	1			
19	2	119260-42020	GASKET, WATER PUMP	1	1	1	1	1			
19-1	2	119260-42021	GASKET, WATER PUMP	1	1	1	1	1		N	
		(A=E66790) (B=E66794) (C=E66710) (D=E75136) (E=E66358)									
20	2	129350-49541	GASKET	1	1	1	1	1			
21	2	124465-44950	GASKET, 16	3	3	3	3	3			
22	2	22190-080002	WASHER, SEAL 6	4	4	4	4	4			
23	2	121520-01851	GASKET	1	1	1	1	1			
24	2	119624-32040	O-RING, P12.0	2	2	2	2	2			
25	2	24311-240100	O-RING, 1AP10A	1	1	1	1	1			
26	2	119209-35030	O-RING, P11	1	1	1	1	1			
27	2	129150-49360	GASKET	1	1	1	1	1			
28	2	22190-060002	WASHER, SEAL 6	1	1	1	1	1			
29	2	104200-59170	GASKET, 12	2	2	2	2	2			
29-1	2	22190-120002	WASHER, SEAL 12	2	2	2	2	2		N	
		(A=E64118) (B=E64345) (C=E64120) (D=E64240) (E=E64359)									
30	2	124701-11911	GASKET, SILENCER	1	1	1	1	1			
31	2	23414-140000	GASKET, 14X1.0	3	3	3	3	3			
31-1	2	22190-140002	WASHER, SEAL 14	3	3	3	3	3		N	
		(A=E64118) (B=E64345) (C=E64120) (D=E64240) (E=E64359)									
32	1	129400-92400	FLEX HORN	1	1	1	1	1			1
33	1	977770-01212	GASKET, LIQUID	1	1	1	1	1			1
34	1	721400-92102	BOX ASSY, TOOL	1	1	1	1	1			
35	2	104200-92350	DRIVER, SCREW	1	1	1	1	1			
36	2	104200-92600	BOX, TOOL	1	1	1	1	1			
37	2	28110-100120	SPANNER, 10X12	1	1	1	1	1			
38	2	28110-140170	SPANNER, 14X17	1	1	1	1	1			
39	2	28110-190220	SPANNER, 19X22	1	1	1	1	1			
40	2	28210-000140	OILER	1	1	1	1	1			

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101304-59020	17	20
101720-55750	17	14
102103-55520	17	9
103854-59191	17	29
104200-55321	17	5
104200-55330	17	6
104200-55341	17	7
104200-55750	17	15
104200-59170	17	35
	23	29
104200-66820	18	7
104200-66830	18	8
104200-66850	18	9
104200-66860	18	10
104200-92350	23	35
104200-92600	23	36
104264-59030	17	24
		27
104507-07190	22	7
104514-42780	10	17
105010-11230	4	37
		43
105025-59550	16	55 -1
105027-12570	5	9
105546-51330	12	26
	13	26
105582-59150	17	28
102050-55610	17	10
114250-11120	4	17
114250-11180	4	18
114250-39450	9	42 -1
114250-53130	16	8
114250-53400	16	10
114371-77110	19	5
114371-77140	19	6
114371-77160	19	7
114371-77170	19	11
114371-77180	19	12
114371-79040	19	8
114371-79050	19	9
114371-79060	19	10
114371-79070	19	17
118400-03060	4	55
119000-59560	16	55 A
119131-18320	6	6
		12
119209-35030	9	39
	23	26
119209-42320	10	10 -1
119209-59810	16	30

Parts No.	Fig. No.	Ref. No.
119209-59820	16	37
119209-59830	16	44
119225-14200	7	18
119225-14210	7	24
119225-34810	9	22
119225-35300	9	28
119225-51100	12	5
	13	5
119225-51300	12	23
	13	23
119225-59560	16	60
119225-59810	16	31
119225-77330	21	22
119232-61510	14	30 -1
	15	27
119232-61540	14	48
	15	43
119232-61550	14	30
119233-12700	5	11
119233-21691	8	9 -1
		11 -1
119245-66010	15	62 -1
119253-13100	6	1
119255-55620	17	4 -1
119256-77010	20	1
119259-44570	11	5
119260-01490	2	17
119260-01510	2	20
119260-01590	2	1
119260-01770	3	16
119260-02020	1	7
119260-02800	1	17
119260-02930	1	20
119260-03020	4	53
119260-03031	4	54
	23	11
119260-07900	4	2
119260-11100	4	15
119260-11110	4	16
119260-11200	4	26
119260-11240	4	28
119260-11260	4	31
119260-11270	4	33
119260-11280	4	34
119260-11310	4	57
	23	12
119260-11330	4	51
119260-11331	4	51 -1
119260-11340	4	19
	23	8

Parts No.	Fig. No.	Ref. No.
119260-11370	4	20
119260-11800	4	9
119260-13100	6	11
119260-13110	6	2
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119260-14100	7	7
119260-14200	7	1
119260-14400	7	2
119260-14580	7	3
119260-21200	8	5
119260-21650	8	9
		11
119260-23910	8	45
119260-25100	7	11
119260-32000	9	1
119260-34810	9	23
119260-35081	9	40
119260-42020	10	13
	23	19
119260-42021	10	13 -1
	23	19 -1
119260-59020	17	23
119260-59520	16	53
119260-59530	16	54
119260-59540	16	51
119260-59550	16	55
119260-59820	16	38
119260-59830	16	45
119260-66010	14	70
119260-66720	14	122
119265-01250	1	6 -1
119265-01341	1	24
	23	2
119265-11260	4	32
119265-11700	4	5
119265-13800	6	14 -1
119265-13810	6	8 -1
119265-13830	6	13 -1
119265-21560	8	22 -1
119265-21590	8	18 -1
119265-21700	8	1
119265-22090	8	31
119265-22300	8	29
119265-22500	8	34
119265-22601	8	30
119265-22900	8	50
119265-22930	8	49
119265-22950	8	53
119265-23100	8	41
119265-23200	8	46

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119265-35300	9	29
119265-42002	10	1
119265-44941	11	12
119265-44950	11	13
119265-49010	11	33
119265-49050	9	19 A
119265-49060	9	19 -1
119265-49090	9	19 B
119265-49100	11	32
119266-01200	1	23
119266-02410	1	12
119266-51900	12	47
	13	47
119266-59501	16	62
119266-59540	16	51 -1
119266-59570	16	63
119266-59580	16	64
119266-61460	15	145 -1
119270-12110	5	2
	23	13
119275-12100	5	1
119275-12101	5	1 -1
119280-01600	3	2
119280-01601	3	2 -1
119280-49020	11	30
119285-34821	9	24
119285-66080	14	58
	15	52
119285-66600	15	154 -1
119285-66620	15	155
119285-66650	15	163
119288-08100	11	1
119288-13501	6	34
119288-49010	11	29
119288-55901	14	1
	15	1
119288-61200	14	16
119288-61510	14	31
119288-66120	18	28
119288-66160	18	29
119288-91130	22	33
119288-91140	22	34
119305-35150	9	27
119309-59590	16	61
119358-13640	6	21
119454-01721	3	14
119462-12550	5	17
119489-11200	4	27
119489-12600	5	18
119489-66010	14	71

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119489-66010	15	63
119489-66500	14	83
	15	66
119600-01600	3	6
119600-11450	4	21
	23	9
119600-11460	4	22
	23	10
119600-21580	8	18
119600-52021	17	2
119600-61100	14	5
119600-61200	14	6
119600-61300	15	5
119600-61400	15	6
119600-61541	14	49
	15	44
119600-61650	14	51
119600-61900	14	56
	15	50
119600-66020	14	69
	15	62
119600-66530	14	74
	15	65 -1
119600-66720	15	104 -1
119600-66840	14	157
	15	154
119610-66700	14	121
	15	103
119620-01530	14	119 -1
	15	102 -1
119620-01620	3	9
119620-01750	3	4
119620-01800	2	4
119620-02450	7	4
119620-11350	4	48
119620-13501	6	16
119620-13510	6	17
119620-13520	6	18
119620-13560	6	19
119620-21500	8	17
119620-21591	8	22
119620-21941	8	10
119620-25912	7	13
119620-42350	10	16
119620-51170	12	8
	13	8
119620-51180	12	9
	13	9
119620-51190	12	10
	13	10

Parts No.	Fig. No.	Ref. No.
119620-51250	12	11
	13	11
119620-51340	12	27
	13	27
119620-51350	12	28
	13	28
119620-51370	12	29
	13	29
119620-51450	12	30
	13	30
119620-51461	12	31
	13	31
119620-51510	12	33
	13	33
119620-51650	12	35
	13	35
119620-51660	12	36
	13	36
119620-51670	12	37
	13	37
119620-51680	12	38
	13	38
119620-51700	12	39
	13	39
119620-53000	16	2
119620-53080	16	5
119620-53120	16	7
119620-53140	16	9
119620-59700	16	56
119620-77820	4	63
119621-01611	3	7
119621-21680	8	8
119621-44500	11	4
119621-44560	11	10
119621-59010	17	19
119621-66051	14	72
	15	64
119621-66500	14	82
	15	65
119621-66610	14	171
	15	149
119621-66710	14	173
	15	151
119623-01950	2	26
119623-49010	11	36
119623-49100	11	35
119623-61200	14	17
	15	15
119624-32040	2	6
	23	24

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119624-77201	21	1 -2
119624-77720	21	19 -2
119626-12500	5	5
119626-12501	5	5 -1
119626-12510	5	6
119626-12800	5	11 A
119629-66510	14	75
	15	66 -1
119631-77011	19	1
119631-77651	19	13
119631-77780	19	16
119632-49020	11	30 -1
119632-61200	14	15
	15	15 -1
119642-33030	9	14
119642-33100	9	15
119642-49030	9	18
119645-49020	11	52
119653-12500	5	12
119653-66500	14	115
	15	98
119654-66700	14	120
	15	104
119655-12560	5	8
		14
119660-01551	2	23
119660-01562	2	24
	23	6
119660-01570	2	25
119660-01640	3	10
119660-01821	7	17
119660-01911	2	5
119660-25022	7	9
119660-25052	7	10
119660-25920	7	28
119660-25930	7	29
119660-32020	9	11
	23	16
119660-51500	12	32
	13	32
119660-51530	12	34
	13	34
119660-61052	14	21
	15	18
119660-61060	14	3
	15	3
119660-61071	14	4
	15	4
119660-61121	14	12
	15	12

Parts No.	Fig. No.	Ref. No.
119660-61140	14	13
	15	13
119660-61150	14	14
	15	14
119660-61300	14	10
	15	10
119660-61341	14	11
	15	11
119660-61460	14	22
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