

OCR10-M51800EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A-SA01~05, 3TNE78A-G1A01, 3TNE78A-G2A01, 3TNE78A-ESA01~05, 3TNE78AC-EG1A01 & 3TNE78AC-G1A01.

2. Model name

Column	Model name	Manufactured	E/#
(A)	3TNE78A-SA01	1999/1~	24231~
	3TNE78A-SA02		
	3TNE78A-SA03		
	3TNE78A-SA04		
	3TNE78A-SA05		
(B)	3TNE78A-G1A01	1999/1~	24270~
(C)	3TNE78A-G2A01	1998/12~	23331~
(D)	3TNE78A-ESA01	1999/1~	24604~
	3TNE78A-ESA02		
	3TNE78A-ESA03		
	3TNE78A-ESA04		
	3TNE78A-ESA05		
(E)	3TNE78AC-EG1A01	2001/6~	51186~
(F)	3TNE78AC-G1A01	1999/1~	24437~

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.

Directions for the Parts Catalog.

- 1.This Parts Catalog shows both standard and optional parts.
- 2.Parts may change without prior notice.
- 3.The following is an example of the Parts Catalog format.

OCF10-G21601

29. FUEL INJECTION PUMP(W/BOOST)

1

REF.

2

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

3

I

5

R

REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST COMPEMSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

Figures or alphabets (symbols) are entered in the remarks column.

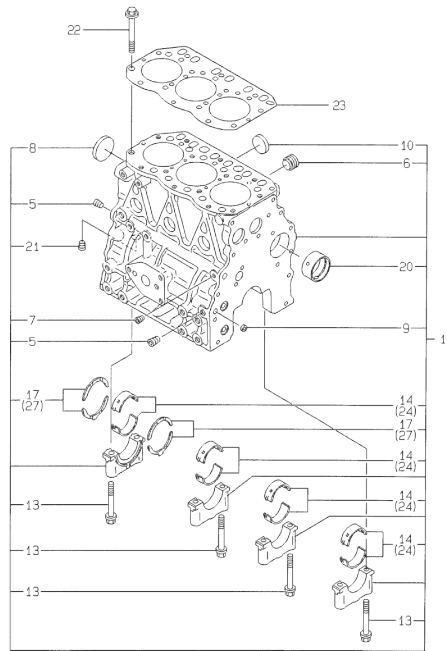
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78(C)-(E)SA,G1,2		25.	PANEL
1.	CYLINDER BLOCK	26.	GASKET SET
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	CYLINDER HEAD & BONNET		
6.	SUCTION MANIFOLD & AIR CLEANER		
7.	EXHAUST MANIFOLD & SILENCER		
8.	CAMSHAFT & DRIVING GEAR		
9.	CRANKSHAFT & PISTON		
10.	LUB.OIL SYSTEM		
11.	COOLING WATER SYSTEM		
12.	RADIATOR		
13.	FUEL INJECTION PUMP		
14.	FUEL INJECTION PUMP		
15.	GOVERNOR		
16.	GOVERNOR		
17.	FUEL INJECTION VALVE		
18.	FUEL FILTER		
19.	ENGINE CONTROL DEVICE		
20.	STARTING MOTOR		
21.	STARTING MOTOR(COLD DISTRICT)		
22.	STARTING MOTOR(COLD DISTRICT)		
23.	GENERATOR		
24.	OUTPUT SHAFT		

OCR10-M51800

Fig.1. CYLINDER BLOCK

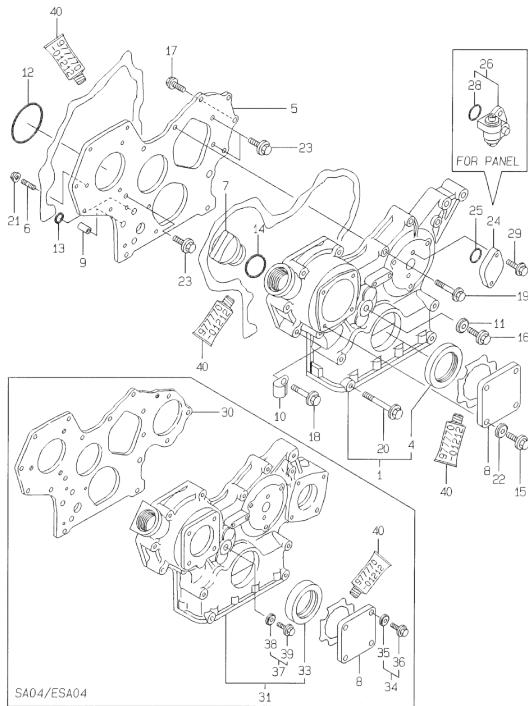


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-01560	BLOCK ASSY, CYLINDER	1	1	1	1	1	1		
5	2	124160-01910	PLUG, PT1/4	2	2	2	2	2	2		
6	2	171051-01921	PLUG, NPTF1	1	1	1	1	1	1		
7	2	23876-010000	PLUG, R01	1	1	1	1	1	1		
8	2	129001-01250	PLUG, 50	1	1	1	1	1	1		
9	2	27241-120000	PLUG, 12	2	2	2	2	2	2		
10	2	27241-300000	PLUG 30	6	6	6	6	6	6		
13	2	119620-02020	BOLT, METAL CAP	8	8	8	8	8	8		
14	2	119810-02800	BEARING, MAIN	4	4	4	4	4	4		
17	2	119810-02930	BEARING, THRUST	1	1	1	1	1	1		
20	2	129795-02411	BUSH, CAMSHAFT	1	1	1	1	1	1		
21	2	124160-01910	PLUG, PT1/4	1	1	1	1	1	1		
22	1	119810-01200	BOLT, HEAD	14	14	14	14	14	14		
23	1	119818-01330	GASKET, HEAD	1	1	1	1	1	1		
24	1	119810-02870	BEARING, 0.25 US	4	4	4	4	4	4		1
27	1	119810-02940	BEARING, THRUST 0.25	2	2	2	2	2	2		2

OCR10-M51800

Fig.2. GEAR HOUSING



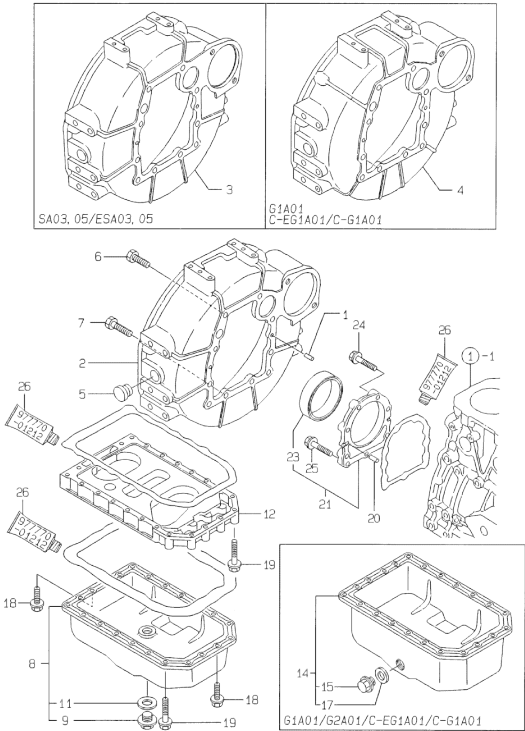
SA04/ESA04

Remarks
(1) FOR 3TNE78A-SA/ESA01,02,03,05.
(2) FOR 3TNE78A-SA/ESA04.
(3) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719810-01500	CASE ASSY, GEAR	1	1	1	1	1	1		1
4	2	129795-01800	SEAL, OIL	1	1	1	1	1	1		1
5	1	129400-01520	FLANGE, GEAR CASE	1	1	1	1	1	1		1
6	1	121450-01560	STUD, M8X22	3	3	3	3	3	3		
7	1	124160-01751	COVER, FILLER	1	1	1	1	1	1		
8	1	124240-01871	COVER	1	1	1	1	1	1		
9	1	129795-01950	PIPE, KNOCK L=18	2	2	2	2	2	2		
10	1	129150-03100	RETAINER, PIPE	1	1	1	1	1	1		
11	1	22190-080002	WASHER, SEAL 6	1	1	1	1	1	1		1
12	1	121850-51960	O-RING	1	1	1	1	1	1		
13	1	24311-000160	O-RING, 1AP16.0	2	2	2	2	2	2		
13-1	1	119609-32040	O-RING, P16	2	2	2	2	2	2	R	
(A=E52268) (B=E52282) (C=E52367) (D=E52265) (E=E51187) (F=E25000)											
14	1	24311-000320	O-RING, 1AP32.0	1	1	1	1	1	1		
15	1	26106-080122	BOLT, M8X 12 PLATED	4	4	4	4	4	4		1
16	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1	1	1	1		1
17	1	26106-080202	BOLT, M8X 20 PLATED	2	2	2	2	2	2		1
18	1	26106-080452	BOLT, M8X 45 PLATED	6	6	6	6	6	6		
19	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3	3	3	3		
20	1	129001-91840	BOLT, M8X85	4	4	4	4	4	4		
20-1	1	129001-91841	BOLT, M8X85	4	4	4	4	4	4	R	
(A=E43002) (B=E43062) (C=E43507) (D=E43005) (E=E51186) (F=E25000)											
21	1	26366-080002	NUT, M8	3	3	3	3	3	3		
21-1	1	26306-080002	NUT, M8	3	3	3	3	3	3	N	
(A=E00X) (B=E00X) (C=E00X) (D=E00X) (E=E00X) (F=E00X)											
22	1	22190-080002	WASHER, SEAL 6	4	4	4	4	4	4		1
23	1	26106-080162	BOLT, M8X 16 PLATED	3	3	3	3	3	3		
24	1	121023-01550	COVER	1	1	1	1	1	1		
25	1	24341-000240	O-RING, 1AS24.0	1	1	1	1	1	1		
26	1	129150-91400	GEAR	1	1	1	1	1	1		
28	2	24341-000240	O-RING, 1AS24.0	1	1	1	1	1	1		
29	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2	2	2	2		
30	1	171353-01520	FLANGE, GEAR CASE	1							2
31	1	171353-01580	CASE ASSY, GEAR	1							2
33	2	129795-01800	SEAL, OIL	1							2
34	1	124550-01590	BOLT, M8X16	4							2
35	2	22190-080003	WASHER, SEAL 8	4							2
36	2	26106-080162	BOLT, M8X 16 PLATED	4							2
37	1	124550-01590	BOLT, M8X16	1							2
38	2	22190-080003	WASHER, SEAL 8	1							2
39	2	26106-080162	BOLT, M8X 16 PLATED	1							2
40	1	977770-01212	GASKET, LIQUID	1	1	1	1	1	1		3

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

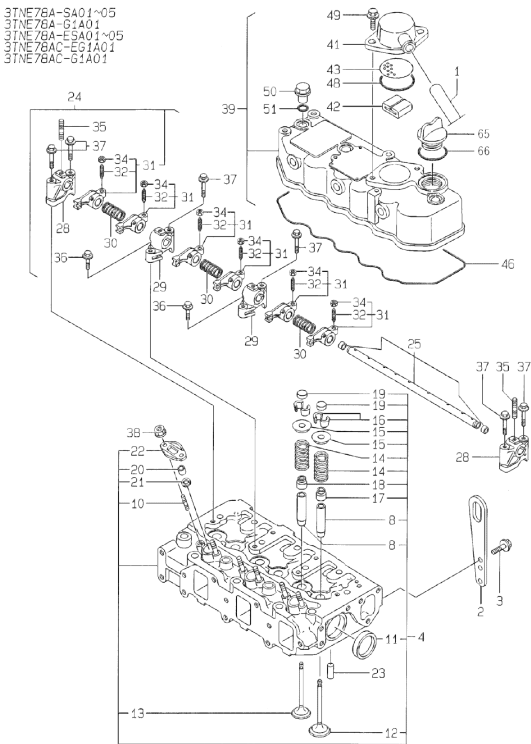
Fig.3. FLYWHEEL HOUSING & OIL SUMP



Remarks
(1) FOR 3TNE78A-SA/ESA01,02,04.
(2) FOR 3TNE78A-SA/ESA03,05.
(3) OPTIONAL PART.

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		
2	1	119888-01600	HOUSING, FLYWHEEL	1		1	1			1	
3	1	129612-01600	HOUSING, FLYWHEEL	1			1				2
4	1	171420-01600	HOUSING, FLYWHEEL		1			1	1		
5	1	119620-01750	CAP	1	1	1	1	1	1		
6	1	26206-100252	BOLT, M10X 25 PLATED	6	6	6	6	6	6		
7	1	26206-100302	BOLT, M10X 30 PLATED	4	4	4	4	4	4		
8	1	119810-01790	SUMP ASSY, OIL	1			1				
9	2	119640-01640	PLUG, DRAIN M22	1			1				
11	2	22190-220002	WASHER, SEAL 22	1			1				
12	1	119810-01730	SPACER, OIL SUMP	1	1	1	1	1	1		
14	1	119810-01770	SUMP ASSY, OIL		1	1		1	1		
15	2	119640-01640	PLUG, DRAIN M22		1	1		1	1		
17	2	22190-220002	WASHER, SEAL 22		1	1		1	1		
18	1	26106-080162	BOLT, M8X 16 PLATED	6	6	6	6	6	6		
19	1	26106-080452	BOLT, M8X 45 PLATED	22	22	22	22	22	22		
20	1	129100-01580	PIN, M8X16	2	2	2	2	2	2		
21	1	719810-01650	CASE ASSY, OIL SEAL	1	1	1	1	1	1		
23	2	119810-01780	SEAL, 769310	1	1	1	1	1	1		
24	1	129486-01670	BOLT, M8X30	6	6	6	6	6	6		
25	1	26106-080352	BOLT, M8X 35 PLATED	3	3	3	3	3	3		
26	1	977770-01212	GASKET, LIQUID	1	1	1	1	1	1		3

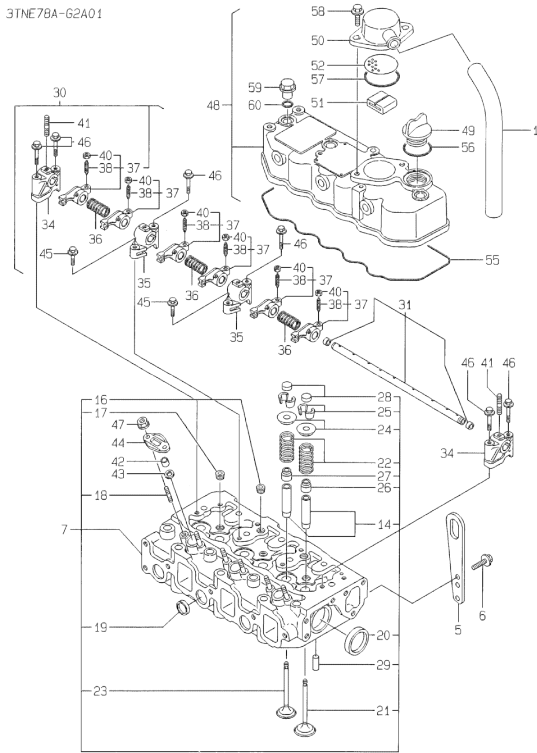
Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-03090	PIPE , BREATHER 900	1	1			1	1	1	
2	1	129900-07900	LIFTER	1	1			1	1	1	
3	1	26106-080162	BOLT, M8X 16 PLATED	2	2			2	2	2	
4	1	119812-11700	HEAD ASSY, CYLINDER	1	1			1	1	1	
8	2	124060-11800	GUIDE, VALVE	6	6			6	6	6	1
10	2	26216-060302	STUD, M6X 30	6	6			6	6	6	
11	2	27241-400000	PLUG, 40	2	2			2	2	2	
12	2	119810-11100	VALVE, INTAKE	3	3			3	3	3	
13	2	119810-11110	VALVE, EXHAUST	3	3			3	3	3	
14	2	119810-11120	SPRING, VALVE	6	6			6	6	6	
15	2	104211-11180	RETAINER, SPRING	6	6			6	6	6	
16	2	27310-070001	COTTER, 7	6	6			6	6	6	
17	2	124160-11340	SEAL, VALVE STEM	3	3			3	3	3	
18	2	124950-11340	SEAL, VALVE STEM	3	3			3	3	3	
19	2	104211-11370	CAP, VALVE	6	6			6	6	6	
20	2	119625-11870	PROTECTOR, NOZZLE	3	3			3	3	3	
20-1	2	119625-11872	PROTECTOR, NOZZLE	3	3			3	3	3	R
(A=E50198) (B=E51062) (D=E50642) (E=E51186) (F=E25000)											
21	2	119625-11880	SEAT, NOZZLE	3	3			3	3	3	
22	2	119625-11900	RETAINER, NOZZLE	3	3			3	3	3	
23	1	22351-060012	PIN, SPRING 6.0X12	2	2			2	2	2	
24	1	119865-11210	SUPPORT ASSY	1	1			1	1	1	
25	2	119810-11240	SHAFT ASSY, ROCKER	1	1			1	1	1	
28	2	129155-11260	SUPPORT, ROCKER ARM	2	2			2	2	2	
29	2	129155-11270	SUPPORT, ROCKER ARM	2	2			2	2	2	
30	2	129150-11280	SPRING	3	3			3	3	3	
31	2	719810-11660	ARM ASSY, ROCKER	6	6			6	6	6	
32	3	129150-11230	SCREW, VALVE ADJUST	6	6			6	6	6	
34	3	129150-11750	NUT, M8	6	6			6	6	6	
35	2	26226-080182	STUD, M8X 18	3	3			3	3	3	
35-1	2	119802-11280	STUD	3	3			3	3	3	R
(A=E50198) (B=E51062) (D=E50642) (E=E51186) (F=E25000)											
36	1	26106-080252	BOLT, M8X 25 PLATED	2	2			2	2	2	
37	1	26106-080502	BOLT, M8X 50 PLATED	6	6			6	6	6	
38	1	26366-060002	NUT, M6	6	6			6	6	6	
39	1	719810-11520	BONNET ASSY, HEAD	1	1			1	1	1	
39-1	1	719810-11521	BONNET ASSY, HEAD	1	1			1	1	1	N
(A=E41747) (B=E42232) (D=E43005) (E=E51186) (F=E25000)											
41	2	129150-03020	COVER, BREATHER	1	1			1	1	1	
42	2	129150-03070	BAFFLE, BREATHER	1	1			1	1	1	
43	2	129150-03080	PLATE, BAFFLE	1	1			1	1	1	
46	2	119865-11310	GASKET, BONNET	1	1			1	1	1	
48	2	24341-000500	O-RING, 1AS50.0	1	1			1	1	1	
49	2	26106-080162	BOLT, M8X 16 PLATED	2	2			2	2	2	
50	1	124160-11360	KNOB	3	3			3	3	3	
51	1	24311-000120	O-RING, 1AP12.0	3	3			3	3	3	
65	1	124160-01751	COVER, FILLER	1	1			1	1	1	
66	1	24311-000320	O-RING, 1AP32.0	1	1			1	1	1	

Fig.5. CYLINDER HEAD & BONNET



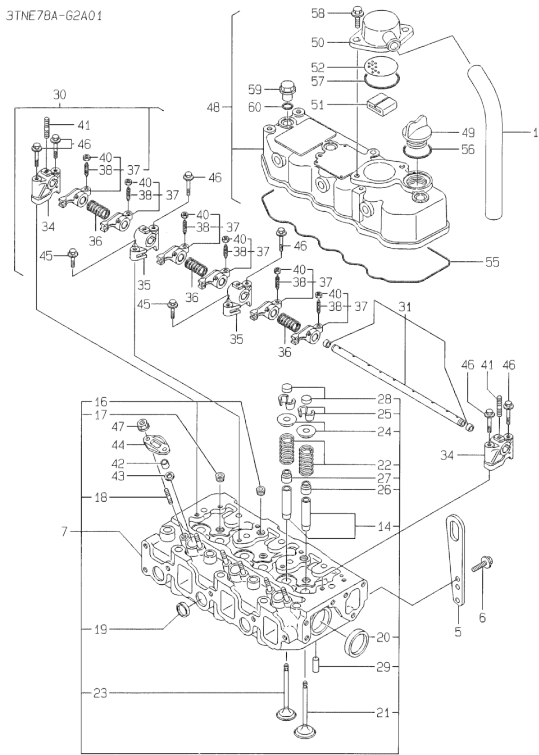
Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-03090	PIPE , BREATHER 900				1				
5	1	129900-07900	LIFTER				1				
6	1	26106-080162	BOLT, M8X 16 PLATED				2				
7	1	719818-11700	HEAD ASSY, CYLINDER				1				1
14	2	124060-11800	GUIDE, VALVE				6				
16	2	121850-11860	PLUG, PT1/4				2				
17	2	23871-030000	PLUG, R03				3				
17-1	2	23876-030000	PLUG, R03				3				N
(C=EXXX)											
18	2	26216-060302	STUD, M6X 30				6				
19	2	27241-220000	PLUG, 22				3				
20	2	27241-400000	PLUG, 40				2				
21	2	119810-11100	VALVE, INTAKE				3				
22	2	119810-11120	SPRING, VALVE				6				
23	2	119810-11130	VALVE, EXHAUST				3				
24	2	104211-11180	RETAINER, SPRING				6				
25	2	27310-070001	COTTER, 7				6				
26	2	124160-11340	SEAL, VALVE STEM				3				
27	2	124950-11340	SEAL, VALVE STEM				3				
28	2	104211-11370	CAP, VALVE				6				
29	2	22351-060012	PIN, SPRING 6.0X12				2				
30	1	119865-11200	SUPPORT ASSY, ARM				1				
31	2	119810-11240	SHAFT ASSY, ROCKER				1				
34	2	129155-11260	SUPPORT, ROCKER ARM				2				
35	2	129155-11270	SUPPORT, ROCKER ARM				2				
36	2	129150-11280	SPRING				3				
37	2	719810-11650	ARM ASSY, ROCKER				6				
38	3	129150-11230	SCREW, VALVE ADJUST				6				
40	3	129150-11750	NUT, M8				6				
41	2	26226-080182	STUD, M8X 18				3				
41-1	2	119802-11280	STUD				3				R
(C=EXXX)											
42	1	119625-11870	PROTECTOR, NOZZLE				3				R
42-1	1	119625-11872	PROTECTOR, NOZZLE				3				
(C=E50644)											
43	1	119625-11880	SEAT, NOZZLE				3				
44	1	119625-11900	RETAINER, NOZZLE				3				
45	1	26106-080252	BOLT, M8X 25 PLATED				2				
46	1	26106-080502	BOLT, M8X 50 PLATED				6				
47	1	26366-060002	NUT, M6				6				
48	1	719810-11520	BONNET ASSY, HEAD				1				
48-1	1	719810-11521	BONNET ASSY, HEAD				1				N
(C=E42066)											
49	2	124160-01751	COVER, FILLER				1				
50	2	129150-03020	COVER, BREATHER				1				
51	2	129150-03070	BAFFLE, BREATHER				1				
52	2	129150-03080	PLATE, BAFFLE				1				
55	2	119865-11310	GASKET, BONNET				1				
56	2	24311-000320	O-RING, 1AP32.0				1				
57	2	24341-000500	O-RING, 1AS50.0				1				
58	2	26106-080162	BOLT, M8X 16 PLATED				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
++ CONTINUE ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

OCR10-M51800

Fig.5. CYLINDER HEAD & BONNET

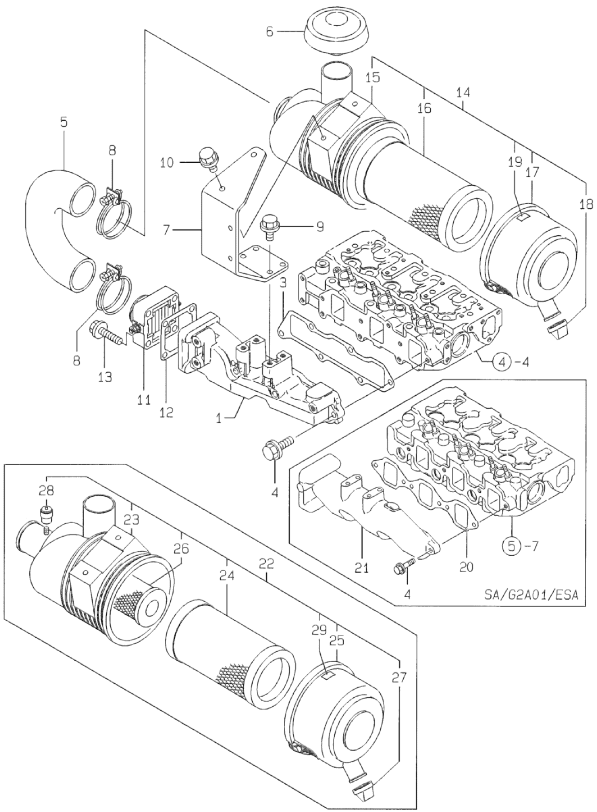


Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
59	1	124160-11360	KNOB			3					
60	1	24311-000120	O-RING, 1AP12.0			3					

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
Copyright (C) YANMAR CO., LTD. All RightsReserved.

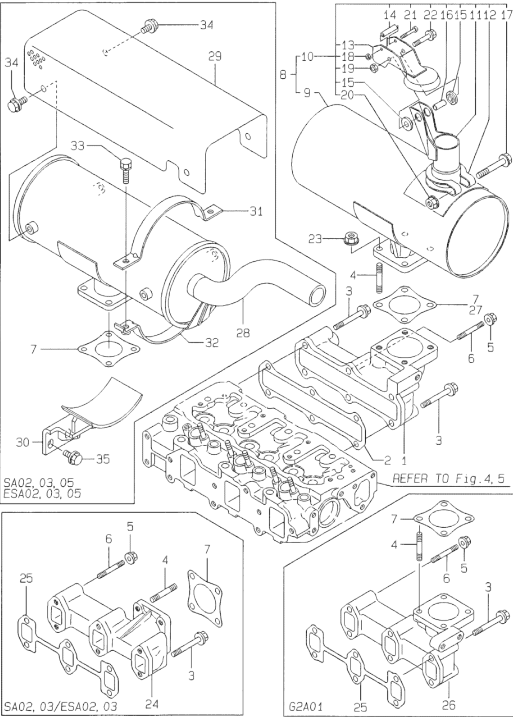
Fig.6. SUCTION MANIFOLD & AIR CLEANER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-12100	MANIFOLD, AIR INTAKE		1				1	1	
3	1	119813-12110	GASKET, MANIFOLD		1				1	1	
4	1	26106-080252	BOLT, M8X 25 PLATED	4	6	4	4	6	6		
5	1	129619-12210	PIPE, AIR INTAKE	1	1	1	1	1	1		
6	1	121521-12400	CAP, RAIN	1	1	1	1	1	1		
7	1	129608-12560	BRACKET, AIR CLEANER	1	1	1	1	1	1		
8	1	23000-060000	CLAMP, 60	2	2	2	2	2	2		
9	1	26106-080182	BOLT, M8X 18 PLATED	4	4	4	4	4	4		
10	1	26106-080182	BOLT, M8X 18 PLATED	2	2	2	2	2	2		
11	1	129120-77501	HEATER	1	1	1	1	1	1		
12	1	129150-77511	GASKET	1	1	1	1	1	1		
13	1	26106-080352	BOLT, M8X 35 PLATED	4	4	4	4	4	4		
14	1	129608-12501	CLEANER ASSY, AIR	1	1	1	1	1	1		
15	2	129608-12511	BODY, AIR CLEANER	1	1	1	1	1	1		
16	2	119808-12520	ELEMENT	1	1	1	1	1	1		
17	2	119808-12530	COVER	1	1	1	1	1	1		
18	2	119808-12540	VALVE, UNLOADER	1	1	1	1	1	1		
19	2	129418-12530	LABEL, MARK	1	1	1	1	1	1		
20	1	119810-12111	GASKET, MANIFOLD	1		1	1				
21	1	171301-12701	MANIFOLD, AIR INTAKE	1		1	1				
22	1	119822-12500	CLEANER ASSY, AIR	1	1	1	1	1	1		
23	2	119822-12510	BODY, AIR CLEANER	1	1	1	1	1	1		
24	2	119808-12520	ELEMENT	1	1	1	1	1	1		
25	2	119808-12530	COVER	1	1	1	1	1	1		
26	2	129051-12530	ELEMENT	1	1	1	1	1	1		
27	2	119808-12540	VALVE, UNLOADER	1	1	1	1	1	1		
28	2	126650-12680	INDICATOR	1	1	1	1	1	1		
29	2	129418-12530	LABEL, MARK	2	2	2	2	2	2		

OCR10-M51800

Fig.7. EXHAUST MANIFOLD & SILENCER

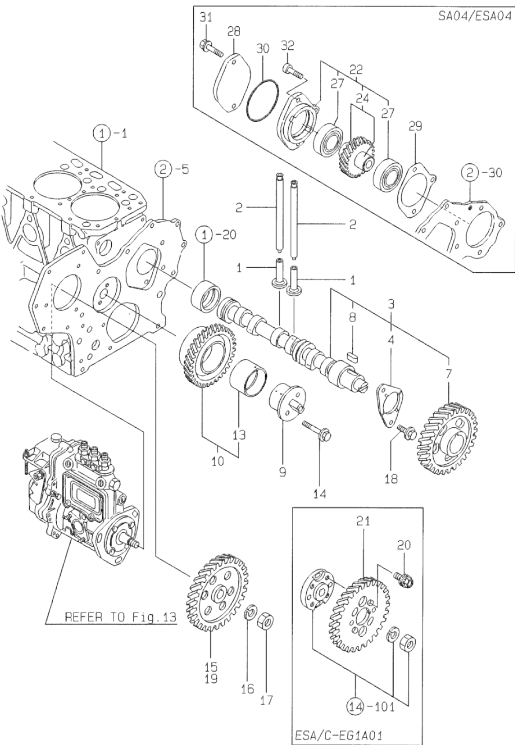


Remarks
(1) FOR 3TNE78A-SA/ESA01,04,05.
(2) FOR 3TNE78A-SA/ESA02,03.
(3) FOR 3TNE78A-SA/ESA02,03,05.
(4) FOR 3TNE78A-SA/ESA05.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-13100	MANIFOLD, EXHAUST	1	1			1	1	1	1
2	1	119813-13110	GASKET	1	1			1	1	1	1
3	1	26106-080602	BOLT, M8X 60 PLATED	4	4	4	4	4	4	4	
4	1	119131-18320	STUD, M8X22	4	4	4	4	4	4	4	
5	1	26366-080002	NUT, M8	2	2	2	2	2	2	2	
5-1	1	26306-080002	NUT, M8	2	2	2	2	2	2	2	N
6	1	26216-080602	STUD, M8X 60	2	2	2	2	2	2	2	
7	1	121000-13201	GASKET, SILENCER	1	1	1	1	1	1	1	
8	1	119620-13501	SILENCER	1	1	1	1	1	1	1	1
9	2	119620-13510	SILENCER ASSY	1	1	1	1	1	1	1	1
10	2	119620-13520	PIPE ASSY, TAIL	1	1	1	1	1	1	1	1
11	3	119620-13560	PIPE, TAIL	1	1	1	1	1	1	1	1
12	3	124664-13580	CLAMP	1	1	1	1	1	1	1	1
13	3	119358-13640	CAP, RAIN	1	1	1	1	1	1	1	1
14	3	121855-13821	SPACER, A	1	1	1	1	1	1	1	1
15	3	121855-13830	SPACER, B	2	2	2	2	2	2	2	1
16	3	123500-13840	SPACER, C	1	1	1	1	1	1	1	1
17	3	26106-080552	BOLT, M8X 55 PLATED	1	1	1	1	1	1	1	1
18	3	26347-040002	NUT, M4	1	1	1	1	1	1	1	1
19	3	26347-060002	NUT, M6	1	1	1	1	1	1	1	1
20	3	26366-080002	NUT, M8	1	1	1	1	1	1	1	1
20-1	3	26306-080002	NUT, M8	1	1	1	1	1	1	1	N 1
21	3	26557-040352	SCREW, M4X35	1	1	1	1	1	1	1	1
22	3	26106-060402	BOLT, M6X 40 PLATED	1	1	1	1	1	1	1	1
23	1	26366-080002	NUT, M8	4	4	4	4	4	4	4	1
23-1	1	26306-080002	NUT, M8	4	4	4	4	4	4	4	N 1
24	1	119810-13100	MANIFOLD, EXHAUST	1				1			2
25	1	119810-13110	GASKET	1		1	1				2
26	1	119888-13101	MANIFOLD, EXHAUST			1					
27	1	121000-13201	GASKET, SILENCER	1	1	1	1	1	1	1	1
27-1	1	124701-11911	GASKET, SILENCER	1	1	1	1	1	1	1	R 1
28	1	119888-13501	SILENCER	1				1			3
28-1	1	119888-13502	SILENCER	1				1			N 3
29	1	119888-13600	COVER, SILENCER	1				1			4
30	1	119888-13651	STAY, SILENCER	1				1			4
31	1	119888-13670	BAND, SILENCER	1				1			4
32	1	119888-13680	BAND, SILENCER	1				1			4
33	1	26014-080302	BOLT, M8X 30	2				2			4
34	1	26106-080122	BOLT, M8X 12 PLATED	4				4			4
35	1	26106-080142	BOLT, M8X 14 PLATED	2				2			4

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

Fig.8. CAMSHAFT & DRIVING GEAR

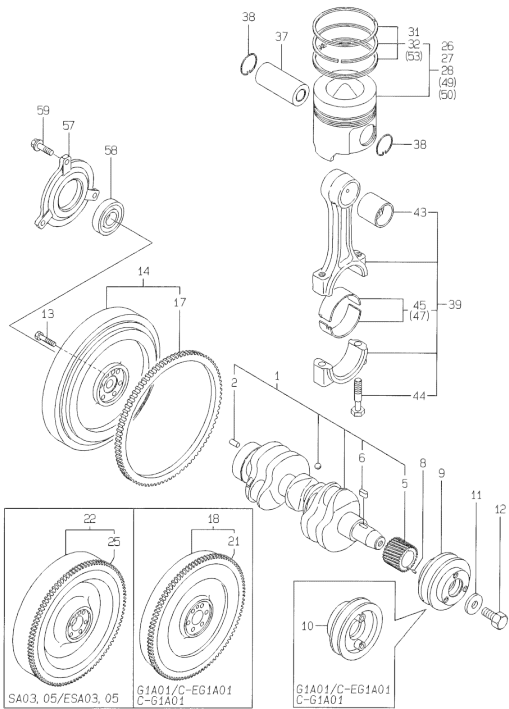


Remarks
(1) FOR 3TNE78A-SA/ESA04.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6	6	6	6	6	6		
2	1	119810-14400	ROD, PUSH	6	6	6	6	6	6		
3	1	119810-14580	CAMSHAFT ASSY	1	1	1	1	1	1		
4	2	129150-02450	BEARING, THRUST	1	1	1	1	1	1		
7	2	129150-14101	GEAR, CAMSHAFT	1	1	1	1	1	1		
8	2	22512-070140	KEY, 7X 14	1	1	1	1	1	1		
9	1	129100-25061	SHAFT, IDLE	1	1	1	1	1	1		
10	1	129150-25101	GEAR ASSY, IDLE	1	1	1	1	1	1		
13	2	129150-25920	BUSH, IDLE GEAR	1	1	1	1	1	1		1
14	1	26106-080452	BOLT, M8X 45 PLATED	2	2	2	2	2	2		
15	1	129150-25900	GEAR, PUMP	1	1	1	1	1	1		
16	1	22217-120000	WASHER, SPRING 12	1	1	1	1	1	1		
17	1	26716-120002	NUT, M12	1	1	1	1	1	1		
18	1	26106-080142	BOLT, M8X 14 PLATED	2	2	2	2	2	2		
19	1	129100-25900	GEAR, PUMP	1	1	1	1	1	1		
20	1	129150-25301	BOLT					4	4		
21	1	129150-25930	GEAR, PUMP					1	1		
21-1	1	129150-25931	GEAR, PUMP					1	1		R
(D=E40883)				(E=E51186)							
22	1	171353-26000	PTO ASSY	1	1	1	1	1	1		
24	2	171353-26200	GEAR ASSY	1	1	1	1	1	1		
27	2	24105-060064	BEARING, BALL 6006Z	2	2	2	2	2	2		
28	1	121023-26070	COVER	1	1	1	1	1	1		
29	1	171353-26081	GASKET	1	1	1	1	1	1		
30	1	24321-000850	O-RING, 1AG85.0	1	1	1	1	1	1		
31	1	26106-100452	BOLT, M10X 45 PLATED	2	2	2	2	2	2		
32	1	26450-080282	BOLT, M8X 28	1	1	1	1	1	1		

OCR10-M51800

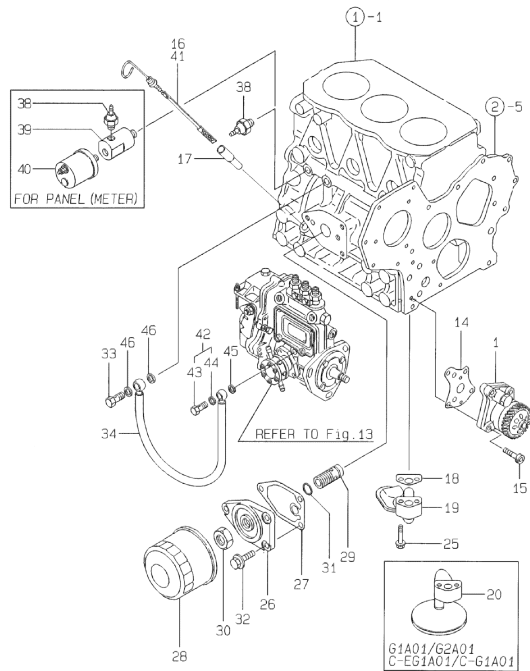
Fig.9. CRANKSHAFT & PISTON



Remarks
(1) REPAIR PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) OVER-SIZE(O.S=0.25)PART.
(4) FOR 3TNE78A-SA/ESA01,02,04.
(5) FOR 3TNE78A-SA/ESA03,05.

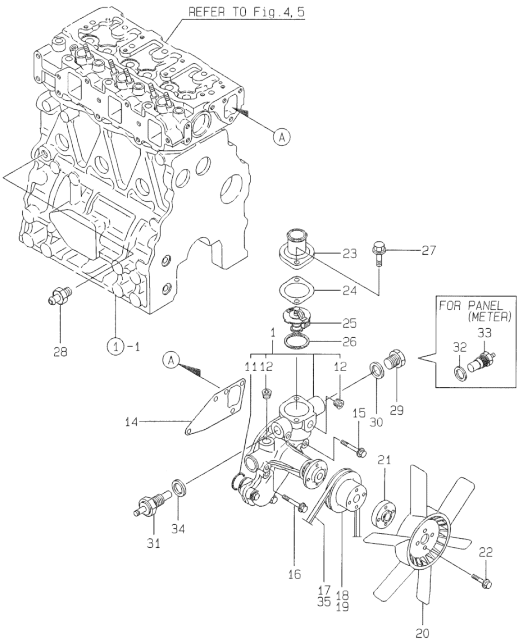
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-21000	CRANKSHAFT ASSY	1	1	1	1	1	1		
2	2	129100-01580	PIN, M8X16	1	1	1	1	1	1		
5	2	129150-21200	GEAR, CRANKSHAFT	1	1	1	1	1	1		
6	2	22512-070140	KEY, 7X 14	1	1	1	1	1	1		
8	1	22351-040010	PIN, SPRING 4.0X10	1	1	1	1	1	1		
9	1	171301-21650	V-PULLEY	1		1	1				
10	1	129550-21650	V-PULLEY		1			1	1		
11	1	129795-21661	WASHER	1	1	1	1	1	1		
12	1	121850-21680	BOLT	1	1	1	1	1	1		
13	1	121111-21501	BOLT, FLYWHEEL	6	6	6	6	6	6		
14	1	119888-21590	FLYWHEEL ASSY	1	1	1	1	1	1		4
17	2	119865-21600	GEAR, RING	1	1	1	1				4
18	1	171301-21590	FLYWHEEL ASSY		1			1	1		
21	2	124550-21600	GEAR, RING		1			1	1		
22	1	171301-21580	FLYWHEEL ASSY	1			1				5
25	2	119865-21600	GEAR, RING	1			1				5
26	1	119818-22080	PISTON ASSY	3	3				3		
27	1	119818-22090	PISTON ASSY			3					
28	1	119923-22080	PISTON ASSY				3	3			
31	2	119818-22500	RING SET, PISTON	3	3		3	3	3		
32	2	119818-22510	RING SET, PISTON			3					
37	1	119813-22300	PIN, PISTON	3	3	3	3	3	3		
38	1	129792-22400	CIRCLIP, 23	6	6	6	6	6	6		
39	1	719810-23100	ROD ASSY, CONNECTING	3	3	3	3	3	3		
43	2	119810-23910	BEARING, PISTON PIN	3	3	3	3	3	3		1
44	2	119810-23200	BOLT, CONNECTING ROD	6	6	6	6	6	6		
45	2	119810-23600	BEARING, CRANK PIN	3	3	3	3	3	3		
47	1	119810-23610	BEARING, 0.25 US	3	3	3	3	3	3		2
49	1	119818-22900	PISTON ASSY, 0.25 OS	3	3	3			3		3
50	1	119818-22930	PISTON ASSY, 0.25 OS				3	3			3
53	2	119818-22950	RING SET, 0.25 OS	3	3	3	3	3	3		3
57	1	119888-21450	RETAINER, BEARING	1		1					4
58	1	24104-062054	BEARING, BALL 6205UU	1		1					4
59	1	26106-080222	BOLT, M8X 22 PLATED	3		3					4

Fig.10. LUB.OIL SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1	1	1	1	1	1		
14	1	129150-32020	GASKET, PUMP	1	1	1	1	1	1		
15	1	26450-060252	BOLT, M6X 25	4	4	4	4	4	4		
16	1	119600-34800	DIPSTICK, OIL	1	1			1	1		
17	1	121520-34810	GUIDE, DIPSTICK	1	1	1	1	1	1		
18	1	129150-35041	GASKET	1	1	1	1	1	1		
19	1	119810-35401	PIPE ASSY, OIL INLET	1				1			
20	1	119810-35300	PIPE ASSY, OIL INLET		1	1			1		
25	1	26106-080352	BOLT, M8X 35 PLATED	2	2	2	2	2	2		
26	1	129150-35101	BRACKET, STRAINER	1	1	1	1	1	1		
27	1	129150-35111	GASKET	1	1	1	1	1	1		
28	1	129150-35151	FILTER, D80XL80	1	1	1	1	1	1		
29	1	129001-35300	BOLT, FILTER	1	1	1	1	1	1		
30	1	129150-35350	NUT	1	1	1	1	1	1		
31	1	24311-000160	O-RING, 1AP16.0	1	1	1	1	1	1		
32	1	26106-080202	BOLT, M8X 20 PLATED	3	3	3	3	3	3		
33	1	124160-39140	BOLT, PIPE JOINT M10	1	1	1	1	1	1		
34	1	119810-39200	PIPE ASSY, OIL	1	1	1	1	1	1		
38	1	124160-39450	SWITCH, 0.5KG	1	1	1	1	1	1		
38-1	1	114250-39450	SWITCH, 0.5KG	1	1	1	1	1	1		N
(A=E41997) (B=E42232) (C=E42066) (D=E43005) (E=E51186) (F=E25000)											
39	1	171375-39601	DAMPER, 1/8	1	1	1	1	1	1		
40	1	144626-91560	SENSOR	1	1	1	1	1	1		
40-1	1	119773-91501	SENSOR	1	1	1	1	1	1		N
(A=E52470) (B=E42769) (C=E52379) (D=E52518) (E=E51187) (F=E25000)											
41	1	171420-34820	DIPSTICK, OIL			1					
42	1	124550-59830	BOLT ASSY, JOINT M8	1	1	1	1	1	1		
43	2	124550-59820	BOLT, PIPE JOINT M8	1	1	1	1	1	1		
44	2	22190-080002	WASHER, SEAL 6	1	1	1	1	1	1		
45	1	22190-080002	WASHER, SEAL 6	1	1	1	1	1	1		
46	1	22190-100002	WASHER, SEAL 10	2	2	2	2	2	2		

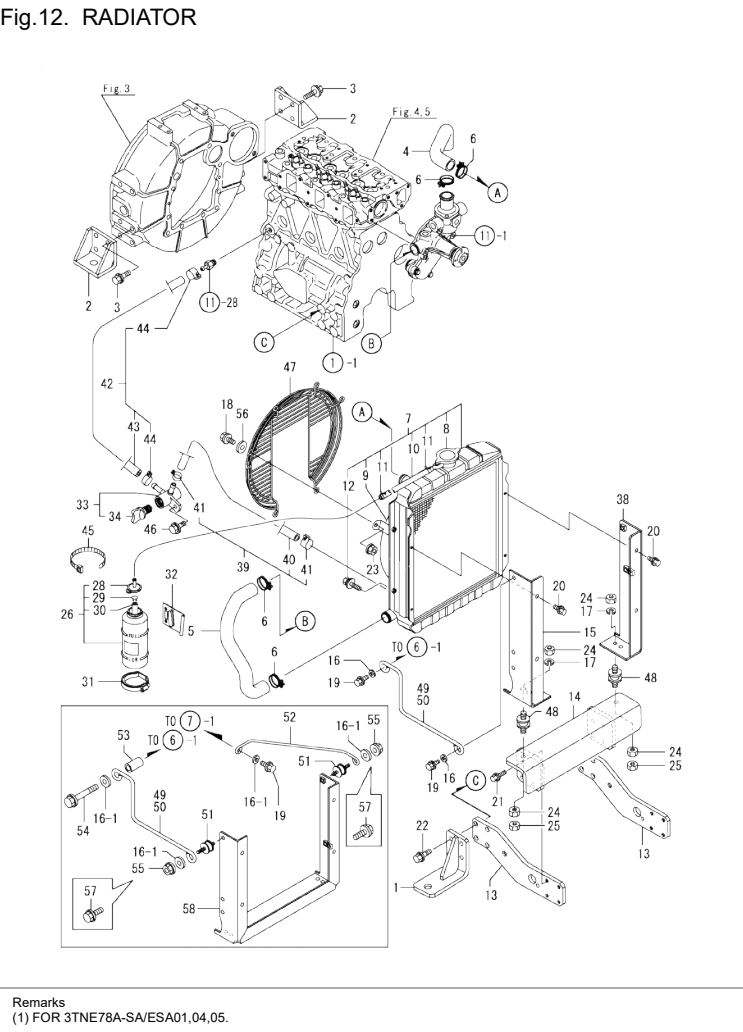
Fig.11. COOLING WATER SYSTEM



Remarks
(1) FOR 3TNE78A-SA/ESA01,02,03,05.
(2) FOR 3TNE78A-SA/ESA04.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-42001	PUMP ASSY, WATER	1	1	1	1	1	1		
11	2	129150-42320	O-RING	1	1	1	1	1	1		
12	2	238771-030000	PLUG, R03	2	2	2	2	2	2		
12-1	2	23876-030000	PLUG, R03	2	2	2	2	2	2	N	
		(A=E0000) (B=E0000) (C=E0000) (D=E0000) (E=E0000) (F=E0000)									
14	1	129150-42020	GASKET, WATER PUMP	1	1	1	1	1	1		
14-1	1	129486-42050	GASKET, WATER PUMP	1	1	1	1	1	1	N	
		(A=E43002) (B=E43062) (C=E43507) (D=E43005) (E=E51186) (F=E25000)									
15	1	26106-080352	BOLT, M8X 35 PLATED	1	1	1	1	1	1		
16	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3	3	3	3		
17	1	129211-42290	V-BELT, A38.5	1	1	1	1	1	1		1
18	1	129403-42380	V-PULLEY, D=110	1	1	1	1	1	1		
19	1	129155-42350	V-PULLEY		1			1	1		
20	1	119620-44741	FAN, COOLING D310	1	1	1	1	1	1		
21	1	124574-44761	SPACER, FAN	1	1	1	1	1	1		
22	1	26014-060252	BOLT, M6X 25	4	4	4	4	4	4		
23	1	129350-49530	COVER, THERMOSTAT	1	1	1	1	1	1		
24	1	129795-49551	GASKET	1	1	1	1	1	1		
25	1	129155-49800	THERMOSTAT, 71	1	1	1	1	1	1		
26	1	129150-49811	GASKET, THERMOSTAT	1	1	1	1	1	1		
27	1	26106-080222	BOLT, M8X 22 PLATED	2	2	2	2	2	2		
28	1	121550-49111	JOINT, PT1/4	1	1	1	1	1	1		
29	1	121450-42450	PLUG, M16	1	1	1	1	1	1		
30	1	124465-44950	GASKET, 16	1	1	1	1	1	1		
31	1	124250-49351	SENSOR	1	1	1	1	1	1		
32	1	129150-49360	GASKET	1	1	1	1	1	1		
33	1	121250-44901	SWITCH, 110	1	1	1	1	1	1		
34	1	124465-44950	GASKET, 16	1	1	1	1	1	1		
35	1	25132-003800	V-BELT, A38	1				1			2
35-1	1	25132-003700	V-BELT, A37	1			1			N	2
		(A=E0000) (D=E0000)									

Fig.12. RADIATOR

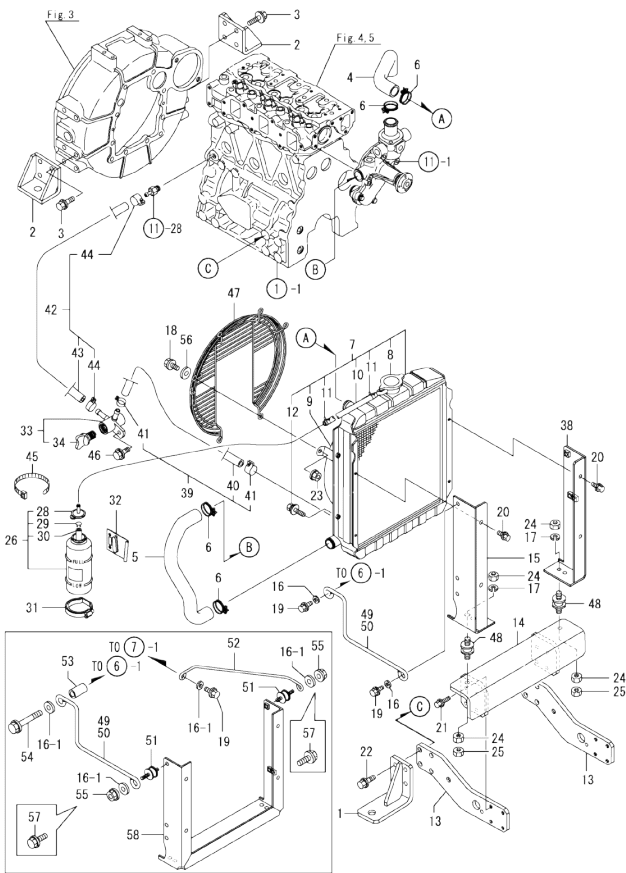


Remarks
(1) FOR 3TNE78A-SA/ESA01,04,05.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-08100	FOOT	2	2		2	2	2		
2	1	119888-08110	FOOT	2	2		2	2	2		
3	1	26106-100202	BOLT, M10X 20 PLATED	8	8		8	8	8		
4	1	171301-49010	PIPE, WATER	1	1	1	1	1	1		
5	1	171301-49020	PIPE, WATER	1	1	1	1	1	1		
6	1	23010-038000	CLAMP, 38	4	4	4	4	4	4		
7	1	119621-44500	RADIATOR	1	1	1	1	1	1		
8	2	119259-44570	CAP, RADIATOR	1	1	1	1	1	1		
9	2	X2411365340	SHROUD	1	1	1	1	1	1		
10	2	129132-44530	HOSE, RUBBER	1	1	1	1	1	1		
11	2	121250-44590	CLAMP	2	2	2	2	2	2		
12	2	26014-080162	BOLT, M8X 16	4	4	4	4	4	4		
13	1	119888-44950	BRACKET	2	2		2	2	2		1
14	1	119888-44960	BRACKET	1	1		1	1	1		1
15	1	119888-44970	SUPPORT, A	1	1		1	1	1	Z	1
16	1	22137-080000	WASHER, 8	2	2		2	2	2		1
16-1	1	22137-080000	WASHER, 8	4	4		4	4	4	K	1
17	1	22217-100000	WASHER, SPRING 10	2	2		2	2	2		1
18	1	26106-080122	BOLT, M8X 12 PLATED	6	6	6	6	6	6		1
18-1	1	26106-080142	BOLT, M8X 14 PLATED	6	6		6	6	6	N	1
19	1	26106-080162	BOLT, M8X 16 PLATED	2	2		2	2	2		1
20	1	26106-080202	BOLT, M8X 20 PLATED	4	4		4	4	4		1
21	1	26106-080252	BOLT, M8X 25 PLATED	8	8		8	8	8		1
22	1	26206-120302	BOLT, M12X 30 PLATED	8	8		8	8	8		1
23	1	26306-080002	NUT, M8	6	6	6	6	6	6		1
23-1	1	26366-080002	NUT, M8	6	6		6	6	6	N	1
24	1	26716-100002	NUT, M10	4	4		4	4	4		1
25	1	26756-100002	NUT, LOCK M10	2	2		2	2	2		1
26	1	124450-44510	TANK ASSY, SUB	1	1	1	1	1	1		
28	2	124450-44530	CAP	1	1	1	1	1	1		
29	2	124450-44560	RETAINER	1	1	1	1	1	1		
30	2	23061-070230	PIPE, 7X 230	1	1	1	1	1	1		
31	1	124450-44550	BAND	1	1	1	1	1	1		
32	1	121256-44600	BRACKET, SUB TANK	1	1	1	1	1	1		
33	1	129150-49100	COCK ASSY, 3-WAY	1	1	1	1	1	1		
34	2	129150-49080	COCK, DRAIN	1	1	1	1	1	1		
38	1	119888-44980	SUPPORT, B	1	1		1	1	1		Z
39	1	119623-49100	PIPE, WATER	1	1		1	1	1		
40	2	119623-49010	PIPE, WATER	1	1		1	1	1		
41	2	124766-59050	CLIP, HOSE 12	2	2		2	2	2		
42	1	119823-49100	PIPE, WATER	1	1		1	1	1		
43	2	119823-49010	PIPE, WATER	1	1		1	1	1		
44	2	124766-59050	CLIP, HOSE 12	2	2		2	2	2		
45	1	121750-59890	BAND, 140	1	1		1	1	1		
46	1	26106-080162	BOLT, M8X 16 PLATED	1	1		1	1	1		
47	1	119621-44560	GUARD	1	1	1	1	1	1		

N:Old, Q:New, R:Old, S:Old, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.12. RADIATOR



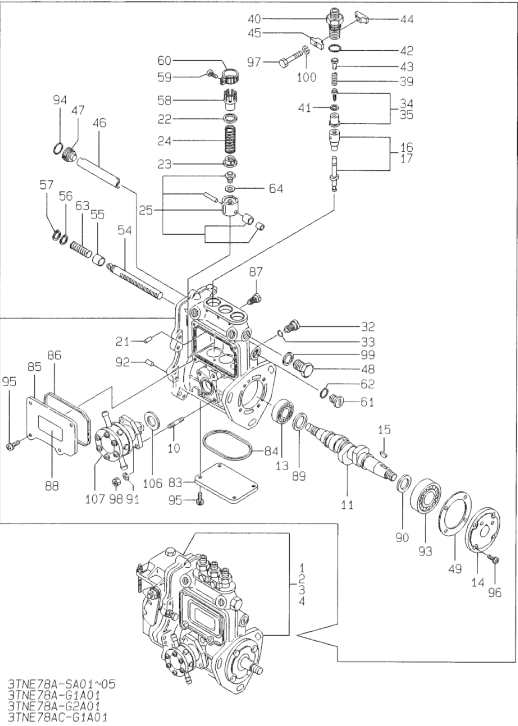
Remarks
(1) FOR 3TNE78A-SA/ESA01,04,05.

(A)=3TNE78A-SA01
(B)=3TNE78AG1A01
(C)=3TNE78AG2A01
(D)=3TNE78A-ESA0
(E)=3TNE78ACEG1A
(F)=3TNE78ACG1A1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47-1	1	119822-44560	GUARD	1	1	1	1	1	1	N	
		(A=E40496)	(B=E40547)		(E=E51186)			(F=E25000)			
48	1	121400-44650	ABSORBER	2	2		2	2	2		1
49	1	119822-44940	RETAINER, RADIATOR		1			1	1		
50	1	129211-44940	RETAINER, RADIATOR				1				1
51	1	121400-44640	ABSORBER	2	2		2	2	2	W	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
51-1	1	121400-44640	ABSORBER	2	2		2	2	2	Z	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
52	1	119822-44950	RETAINER, RADIATOR	1	1		1	1	1	W	1
53	1	119820-77340	PIECE, DISTANCE	1			1				1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
54	1	26106-080502	BOLT, M8X 50 PLATED	1			1			W	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
55	1	26366-080002	NUT, M8	2	2		2	2	2	W	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
55-1	1	26366-080002	NUT, M8	2	2		2	2	2	Z	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
56	1	22137-080000	WASHER, 8	6	6		6	6	6	W	
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
57	1	26106-080202	BOLT, M8X 20 PLATED	2	2		2	2	2	W	
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			
58	1	119822-44970	SUPPORT, RADIATOR	1	1		1	1	1	W	1
		(A=E40496)	(B=E40547)		(D=E40883)		(E=E51186)	(F=E25000)			

N:Old $\frac{Y05}{100}$ New, Q:Old $\frac{H0}{100}$ New, R:Old $\frac{Y05}{100}$ New, S:Old $\frac{H0}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

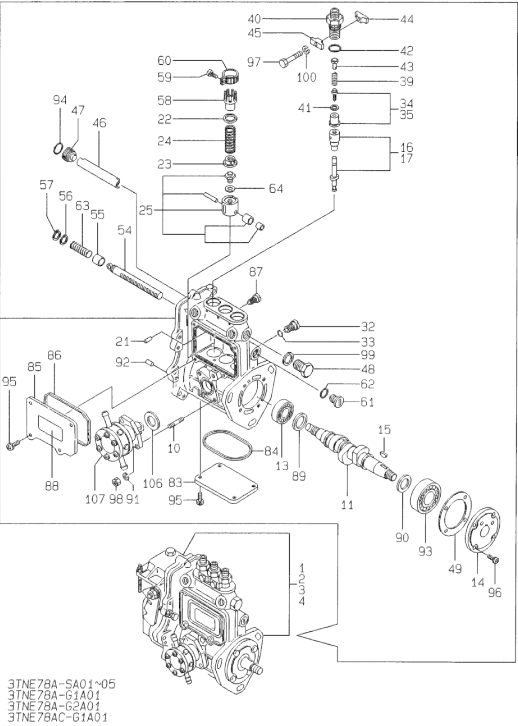
Fig.13. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR(FIG.15) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.1,2,3,4).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-51370	PUMP ASSY, INJECTION	1							1
2	1	719989-51310	PUMP ASSY, INJECTION		1						1
3	1	719822-51400	PUMP ASSY, INJECTION			1					1
4	1	719822-51310	PUMP ASSY, INJECTION								1
10	2	129155-51020	STUD	2	2	2					2
11	2	119810-51040	CAMSHAFT	1	1	1					1
13	2	129155-51050	BEARING, 17BM001D	1	1	1					1
13-1	2	129155-51051	BEARING	1	1	1					1
(A=E52599) (B=E52791) (C=E52389) (F=E25000)											N
14	2	129155-51060	SUPPORT, CAMSHAFT	1	1	1					1
15	2	122710-51090	KEY	1	1	1					1
16	2	129108-51100	PLUNGER ASSY	3	3						3
17	2	129411-51200	PLUNGER ASSY			3					
21	2	129155-51140	PIN	3	3	3					3
22	2	174307-51170	RETAINER, SPRING A	3	3	3					3
23	2	129155-51180	RETAINER, SPRING	3	3	3					3
24	2	124950-51190	SPRING, PLUNGER	3	3	3					3
25	2	129155-51200	TAPPET ASSY	3	3	3					3
32	2	129155-51270	STOPPER, TAPPET	3	3	3					3
33	2	129155-51280	O-RING, S6	3	3	3					3
34	2	129100-51300	VALVE ASSY, DELIVERY	3	3						
35	2	128170-51300	VALVE ASSY, DELIVERY			3					3
39	2	129155-51320	SPRING, DELIVERY	3	3	3					3
40	2	129155-51340	RETAINER	3	3	3					3
41	2	124550-51350	GASKET, DELIVERY	3	3	3					3
42	2	124550-51370	O-RING	3	3	3					3
43	2	129155-51370	STOPPER, VALVE	3	3	3					3
44	2	129155-51380	STOPPER	2	2	2					2
45	2	129155-51390	STOPPER	2	2	2					2
46	2	129155-51400	DEFLECTOR	1	1	1					1
47	2	129155-51410	BOLT	1	1	1					1
48	2	129155-51420	PLUG, M16	1	1	1					1
49	2	129155-51450	SHIM SET, ADJUSTING	1	1	1					1
54	2	129155-51500	RACK, CONTROL	1	1	1					1
55	2	129155-51521	BUSH, RACK	1	1	1					1
56	2	129155-51530	SPACER	1	1	1					1
57	2	129155-51540	CIRCLIP	1	1	1					1
58	2	129155-51550	PINION, CONTROL	3	3	3					3
59	2	122117-51560	SCREW	3	3	3					3
59-1	2	129100-51570	SCREW	3	3	3					3
(A=E4XXX) (B=E4XXX) (C=E4XXX) (F=E4XXX)											N
60	2	174307-51560	PINION	3	3	3					3
60-1	2	129100-51560	PINION	3	3	3					3
(A=E4XXX) (B=E4XXX) (C=E4XXX) (F=E4XXX)											N
61	2	129155-51570	PLUG, M12	1	1	1					1
62	2	129155-51580	O-RING	1	1	1					1
63	2	129155-51591	SPRING, RACK	1	1	1					1
64	2	129155-51600	SHIM SET, ADJUSTING	3	3	3					3
83	2	129155-51700	COVER	1	1	1					1
83-1	2	129155-51701	COVER	1	1	1					1
(A=E42431) (B=E42782) (C=E42321) (F=E25000)											N

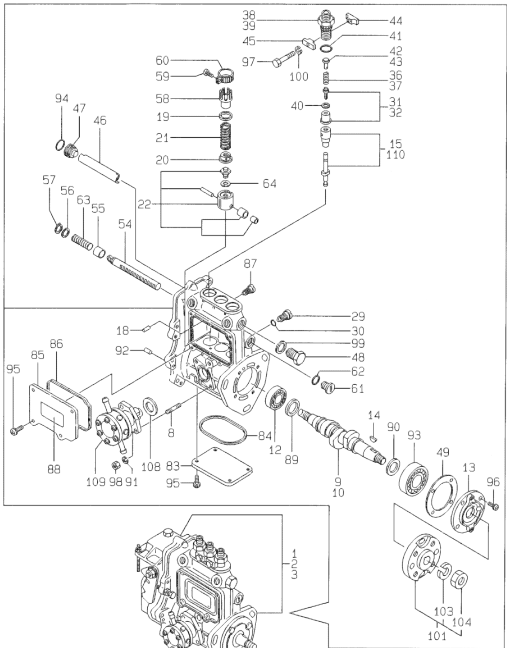
Fig.13. FUEL INJECTION PUMP



Remarks
(1) GOVERNOR(FIG.15) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.1,2,3,4).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
84	2	129155-51710	GASKET	1	1	1			1		
84-1	2	129155-51711	GASKET	1	1	1			1	N	
(A=E46232) (B=E46510) (C=E46551)				(F=E25000)							
85	2	129155-51750	COVER	1	1	1			1		
85-1	2	129155-51751	COVER	1	1	1			1	N	
(A=E42431) (B=E42782) (C=E42321)				(F=E25000)							
86	2	129155-51760	GASKET	1	1	1			1		
87	2	129155-51790	STOOPER, RACK	1	1	1			1		
88	2	129156-51910	LABEL, CAUTION	1	1	1			1		
89	2	129155-51930	SPACER, T=3.25	1	1	1			1		
90	2	129155-51940	SPACER, T=1.5	1	1	1			1		
91	2	22217-060000	WASHER, SPRING 6	2	2	2			2		
92	2	22351-050010	PIN, SPRING 5.0X10	2	2	2			2		
93	2	24101-063034	BEARING, BALL 6303	1	1	1			1		
94	2	24341-000160	O-RING, 1AS16.0	1	1	1			1		
95	2	26022-050102	SCREW, M5X10	8	8	8			8		
95-1	2	26022-050122	SCREW, M5X12	8	8	8			8	N	
(A=E42431) (B=E42782) (C=E42321)				(F=E25000)							
96	2	26022-060162	SCREW, M6X16	4	4	4			4		
97	2	26116-050302	BOLT, M5X 30 PLATED	2	2	2			2		
98	2	26716-060002	NUT, M6	2	2	2			2		
99	2	22190-160002	WASHER, SEAL 16	1	1	1			1		
100	2	22217-050000	WASHER, SPRING 5	2	2	2			2		
106	2	129155-52050	GASKET	1	1	1			1		
107	2	129100-52100	PUMP ASSY, FUEL FEED	1	1	1			1		

Fig.14. FUEL INJECTION PUMP



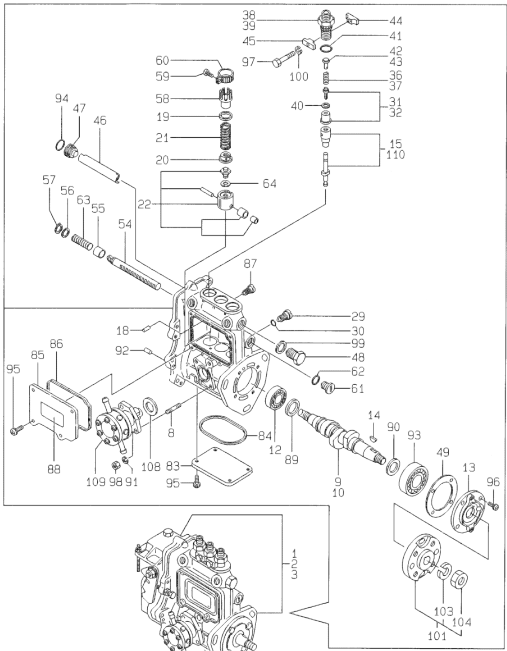
3TNE78A-ESA01~05
3TNE78AC-EG1A01

Remarks
(1) GOVERNOR(FIG.16) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.1,2,3).
REF.NO.1 3TNE78A-ESA01,04,05.
REF.NO.2 3TNE78A-ESA02,03.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-51460	PUMP ASSY, INJECTION				1				1
2	1	719822-51469	PUMP ASSY, INJECTION				1				1
2-1	1	719822-51460	PUMP ASSY, INJECTION				1			R	1
(D=E49366)											
3	1	719989-51461	PUMP ASSY, INJECTION					1			1
8	2	129155-51020	STUD				2	2			
9	2	129171-51040	CAMSHAFT				1				
10	2	119810-51040	CAMSHAFT					1			
12	2	129155-51050	BEARING, 17BM001D				1	1			
12-1	2	129155-51051	BEARING				1	1		N	
(D=E53032) (E=E51187)											
13	2	129208-51060	SUPPORT				1	1			
14	2	122710-51090	KEY				1	1			
15	2	119908-51100	PLUNGER ASSY				3				
15-1	2	129108-51100	PLUNGER ASSY				3			S	
(D=E40883)											
18	2	129155-51140	PIN				3	3			
19	2	174307-51170	RETAINER, SPRING A				3	3			
20	2	129155-51180	RETAINER, SPRING				3	3			
21	2	124950-51190	SPRING, PLUNGER				3	3			
22	2	129155-51200	TAPPET ASSY				3	3			
29	2	129155-51270	STOPPER, TAPPET				3	3			
30	2	129155-51280	O-RING, S6				3	3			
31	2	119908-51300	VALVE ASSY, DELIVERY				3				
32	2	128170-51300	VALVE ASSY, DELIVERY					3			
36	2	129573-51330	SPRING, DELIVERY				3				
37	2	129155-51320	SPRING, DELIVERY					3			
38	2	129573-51340	RETAINER				3				
39	2	129155-51340	RETAINER					3			
40	2	124550-51350	GASKET, DELIVERY				3	3			
41	2	124550-51370	O-RING				3	3			
42	2	129573-51370	STOPPER, VALVE				3				
43	2	129155-51370	STOPPER, VALVE					3			
44	2	129155-51380	STOPPER				2	2			
45	2	129155-51390	STOPPER				2	2			
46	2	129155-51400	DEFLECTOR				1	1			
47	2	129155-51410	BOLT				1	1			
48	2	129155-51420	PLUG, M16				1	1			
49	2	129155-51450	SHIM SET, ADJUSTING				1	1			
54	2	129155-51500	RACK, CONTROL				1	1			
55	2	129155-51521	BUSH, RACK				1	1			
56	2	129155-51530	SPACER				1	1			
57	2	129155-51540	CIRCLIP				1	1			
58	2	129155-51550	PINION, CONTROL				3	3			
59	2	122117-51560	SCREW				3	3			
59-1	2	129100-51570	SCREW				3	3		N	
(D=EXXX) (E=EXXX)											
60	2	174307-51560	PINION				3	3			
60-1	2	129100-51560	PINION				3	3		N	
(D=EXXX) (E=EXXX)											
61	2	129155-51570	PLUG, M12				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 ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.14. FUEL INJECTION PUMP

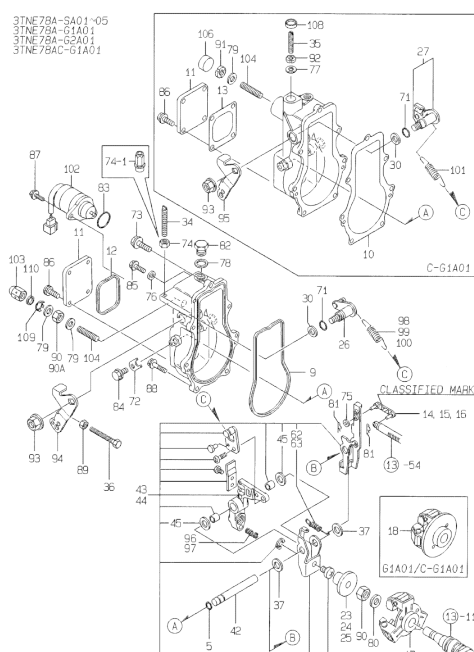


3TNE78A-ESA01~05
3TNE78AC-EG1A01

Remarks
(1) GOVERNOR(FIG.16) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.1,2,3).
REF.NO.1 3TNE78A-ESA01,04,05.
REF.NO.2 3TNE78A-ESA02,03.

(A)=3TNE78A-SA01 (D)=3TNE78A-ESA0
(B)=3TNE78AG1A01 (E)=3TNE78ACEG1A
(C)=3TNE78AG2A01 (F)=3TNE78ACG1A1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
62	2	129155-51580	O-RING				1	1			
63	2	129155-51591	SPRING, RACK				1	1			
64	2	129155-51600	SHIM SET, ADJUSTING				3	3			
83	2	129155-51701	COVER				1	1			
84	2	129155-51711	GASKET				1	1			
85	2	129155-51751	COVER				1	1			
86	2	129155-51760	GASKET				1	1			
87	2	129155-51790	STOOPER, RACK				1	1			
88	2	129156-51910	LABEL, CAUTION				1	1			
89	2	129155-51930	SPACER, T=3.25				1	1			
90	2	129155-51940	SPACER, T=1.5				1	1			
91	2	22217-060000	WASHER, SPRING 6				2	2			
92	2	22351-050010	PIN, SPRING 5.0X10				2	2			
93	2	24101-063034	BEARING, BALL 6303				1	1			
94	2	24341-000160	O-RING, 1AS16.0				1	1			
95	2	26022-050122	SCREW, M5X12				8	8			
96	2	26022-060162	SCREW, M6X16				4	4			
97	2	26116-050302	BOLT, M5X 30 PLATED				2	2			
98	2	26716-060002	NUT, M6				2	2			
99	2	22190-160002	WASHER, SEAL 16				1	1			
100	2	22217-050000	WASHER, SPRING 5				2	2			
101	2	129208-54500	FLANGE ASSY				1	1			
103	3	22217-120000	WASHER, SPRING 12				1	1			
104	3	26716-120002	NUT, M12				1	1			
108	2	129155-52050	GASKET				1	1			
109	2	129100-52100	PUMP ASSY, FUEL FEED				1	1			
110	2	129108-51100	PLUNGER ASSY					3			



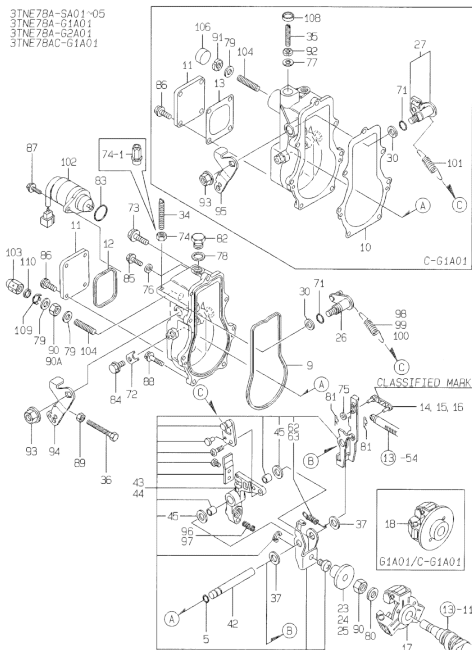
THIS FIGURE (GOVERNOR ASSY) IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY (FIG.13).

				(A)=3TNE78A-SA01 (B)=3TNE78AG1A01 (C)=3TNE78AG2A01					(D)=3TNE78A-EA01 (E)=3TNE78AC6G1A (F)=3TNE78AC6G1A1		
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
5	2	129155-51280	O-RING, S6	1	1	1			1		
9	2	129052-61050	GASKET	1	1	1					
10	2	129116-61051	GASKET						1		
11	2	129052-61060	COVER, GOVERNOR CASE	1	1	1			1		
12	2	129052-61070	GASKET	1	1	1					
13	2	119988-61070	GASKET						1		
14	2	129155-61120	LINK, L=30 MARK 0	1	1	1			1		1
15	2	129155-61130	LINK, L=31 MARK 1	1	1	1			1		1
16	2	129155-61140	LINK, L=30.5 MARK 05	1	1	1			1		1
17	2	129155-61201	WEIGHT ASSY,GOVERNOR	1		1					
17-1	2	129155-61202	WEIGHT ASSY,GOVERNOR	1		1					R
		(A=E42431)	(C=E42321)								
18	2	171488-61200	WEIGHT ASSY,GOVERNOR			1			1		
23	2	129155-61341	SLEEVE	1	1	1			1		2
24	2	129155-61350	SLEEVE, L=24.9	1	1	1			1		2
25	2	129155-61360	SLEEVE, L=25.2	1	1	1			1		2
26	2	129100-61400	SHAFT ASSY	1	1	1					
27	2	119988-61400	SHAFT ASSY						1		
30	2	129155-61430	SPACER	1	1	1			1		
34	2	129155-61450	BOLT, LIMITER	1	1	1					
35	2	119988-61460	BOLT, LIMITER						1		
36	2	129155-61460	BOLT, IDLE	1	1	1			1		
37	2	129155-61480	SPACER ASSY	2	2	2			2		
42	2	129052-61390	SHAFT	1	1	1			1		
43	2	129052-61500	LEVER ASSY, GOVERNOR	1							
43-1	2	119908-61501	LEVER ASSY, GOVERNOR	1							R
		(A=EXXX)									
44	2	129412-61500	LEVER ASSY, GOVERNOR			1	1		1		
44-1	2	129486-61501	LEVER ASSY, GOVERNOR			1	1		1		R
		(B=EXXX)	(C=EXXX)								
45	3	174307-51700	SHIM SET	2	2	2			2		
62	3	129052-61540	SPRING, SET								
62-1	3	129486-61540	SPRING, SET	1							S
		(A=EXXX)									
63	3	119843-61540	SPRING, SET			1	1		1		
63-1	3	129486-61540	SPRING, SET			1	1		1		S
		(B=EXXX)	(C=EXXX)								
71	2	129155-61830	O-RING, S10	1	1	1			1		
72	2	119660-61901	RETAINER, SHAFT	1	1	1			1		
73	2	129155-61950	BOLT	1	1	1			1		
74	2	124550-66370	NUT, M6	1	1	1					
74-1	2	129209-61370	NUT, M6	1	1	1					S
		(A=E52599)	(B=E52791)	(C=E52379)							
75	2	22117-040000	WASHER, 4	1	1	1			1		
76	2	22190-060003	SEAL WASER 6	1	1	1					
77	2	12190-060002	WASHER, SEAL 6						1		
78	2	22190-100002	WASHER, SEAL 10	1	1	1			1		
79	2	22190-120002	WASHER, SEAL 12	2	2	2			1		
80	2	22287-120000	WASHER, 12	1	1	1			1		
81	2	22372-040000	PIN, SNAP 4	2	2	2			2		
82	2	23887-100002	PLUG, 10	1	1	1			1		

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-M51800

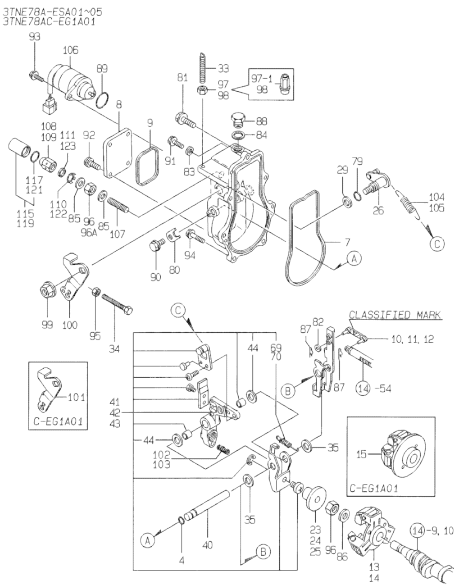
Fig.15. GOVERNOR



Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.
(3) REPAIR PART.
* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.13).

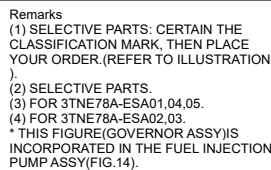
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
83	2	24341-000280	O-RING, 1AS28.0	1	1	1			1		
83-1	2	158552-61900	O-RING	1	1	1			1	N	
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)							(F=EXXXXX)		
84	2	26106-060102	BOLT, M6X 10 PLATED	1	1	1			1		
85	2	26106-060102	BOLT, M6X 10 PLATED	1	1	1					
86	2	26106-060102	BOLT, M6X 10 PLATED	4	4	4			4		
87	2	26106-060142	BOLT, M6X 14 PLATED	2	2	2			2		
88	2	26106-060202	BOLT, M6X 20 PLATED	6	6	6			6		
89	2	26756-060002	NUT, LOCK M6	1	1	1			1		
90	2	26776-120002	NUT, LOCK M12	2	2	2			1		
90-1	2	26776-120002	NUT, LOCK M12	1	1	1				K	
		(A=E51990) (B=E52119) (C=E52367)									
90A	2	26736-120002	NUT, M12	1	1	1				W	
		(A=E51990) (B=E52119) (C=E52367)									
91	2	119685-61940	NUT, M12						1		
92	2	119685-61950	NUT, M6						1		
93	1	26366-080002	NUT, M8	1	1	1			1		
94	1	129100-61440	LEVER, CONTROL	1		1					
95	1	171488-61440	LEVER, CONTROL		1				1		
96	1	129100-61650	SPRING, CONTROLLER	1							
97	1	129500-61650	SPRING, FUEL CONTROL		1	1			1		
98	1	171353-61700	SPRING, GOVERNOR	1							
99	1	129477-61720	SPRING, GOVERNOR		1						
100	1	129500-61700	SPRING, GOVERNOR			1					
101	1	129477-61710	SPRING, GOVERNOR						1		
102	1	119653-77950	SOLENOID, STOP	1	1	1			1		
103	1	26687-120002	NUT, CAP M12	1	1	1					
103-1	1	129209-61930	NUT, CAP	1	1	1				N	
		(A=E52599) (B=E52791) (C=E52379)									
104	1	129155-61470	BOLT, CONTROL	1	1	1			1		
106	1	119621-66610	PLUG, 22						1	3	
108	1	119621-66710	PLUG, 14						1	3	
109	1	129209-61970	PLATE	1	1	1				W	
		(A=E52599) (B=E52791) (C=E52379)									
110	1	23414-120016	GASKET, 12X1.0	1	1	1				W	
		(A=E52599) (B=E52791) (C=E52379)									

Fig.16. GOVERNOR



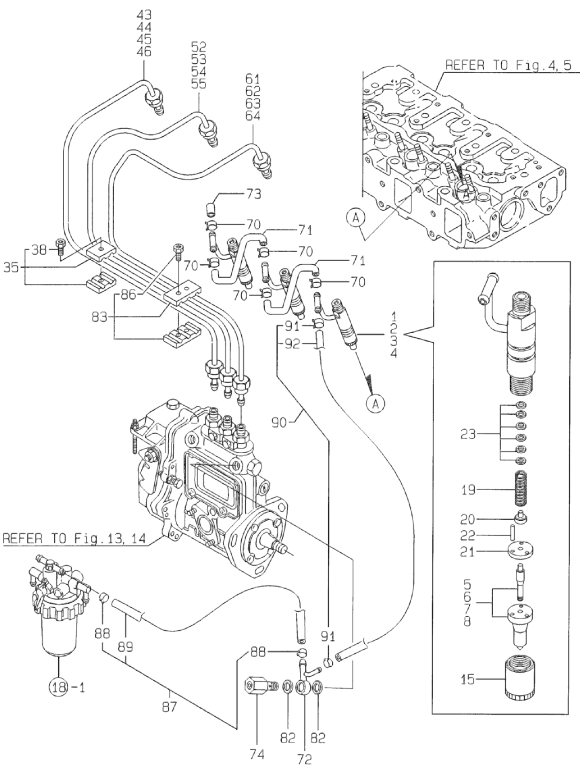
Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.
(3) FOR 3TNE78A-ESA01.04.05.
(4) FOR 3TNE78A-ESA02.03.
* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.14).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
4	2	129155-51280	O-RING, S6				1	1			
7	2	129052-61050	GASKET				1	1			
8	2	129052-61060	COVER, GOVERNOR CASE				1	1			
9	2	129052-61070	GASKET				1	1			
10	2	129155-61120	LINK, L=30 MARK 0				1	1			1
11	2	129155-61130	LINK, L=31 MARK 1				1	1			1
12	2	129155-61140	LINK, L=30.5 MARK 05				1	1			1
13	2	129155-61201	WEIGHT ASSY,GOVERNOR				1				3
13-1	2	129486-61200	WEIGHT ASSY,GOVERNOR				1			S	3
13-2	2	129486-61201	WEIGHT ASSY,GOVERNOR (D=E40976)				1			R	3
14	2	129486-61200	WEIGHT ASSY,GOVERNOR (D=E43005)				1				4
14-1	2	129486-61201	WEIGHT ASSY,GOVERNOR (D=E52518)				1			R	4
15	2	129618-61200	WEIGHT ASSY,GOVERNOR					1			
23	2	129155-61341	SLEEVE				1	1			2
24	2	129155-61350	SLEEVE, L=24.9				1	1			2
25	2	129155-61360	SLEEVE, L=25.2				1	1			2
26	2	129100-61400	SHAFT ASSY				1	1			
29	2	129155-61430	SPACER				1	1			
33	2	129155-61450	BOLT, LIMITER					1	1		
34	2	129155-61460	BOLT, IDLE					1	1		
35	2	129155-61480	SPACER ASSY				2	2			
40	2	129052-61390	SHAFT				1	1			
41	2	129052-61500	LEVER ASSY, GOVERNOR				1				3
41-1	2	119908-61500	LEVER ASSY, GOVERNOR				1			S	3
41-2	2	119908-61501	LEVER ASSY, GOVERNOR (D=E40976)				1			R	3
42	2	119908-61500	LEVER ASSY, GOVERNOR (D=EXXX)				1				4
42-1	2	119908-61501	LEVER ASSY, GOVERNOR (D=EXXX)				1			R	4
43	2	129486-61501	LEVER ASSY, GOVERNOR					1			
44	3	174307-51700	SHIM SET				2	2			
69	3	129052-61540	SPRING, SET				1				3
69-1	3	129486-61540	SPRING, SET (D=EXXX)				1			S	3
70	3	129486-61540	SPRING, SET				1	1			4
79	2	129155-61830	O-RING, S10				1	1			
80	2	119660-61901	RETAINER, SHAFT				1	1			
81	2	129155-61950	BOLT				1	1			
82	2	22117-040000	WASHER, 4				1	1			
83	2	22190-060003	SEAL WASER 6				1	1			
84	2	22190-100002	WASHER, SEAL 10				1	1			
85	2	22190-120002	WASHER, SEAL 12				2	2			
86	2	22287-120000	WASHER, 12				1	1			
87	2	22372-040000	PIN, SNAP 4				2	2			
88	2	23887-100002	PLUG, 10				1	1			
89	2	24341-000280	O-RING, 1AS28.0				1	1			
89-1	2	158552-61900	O-RING				1	1			N

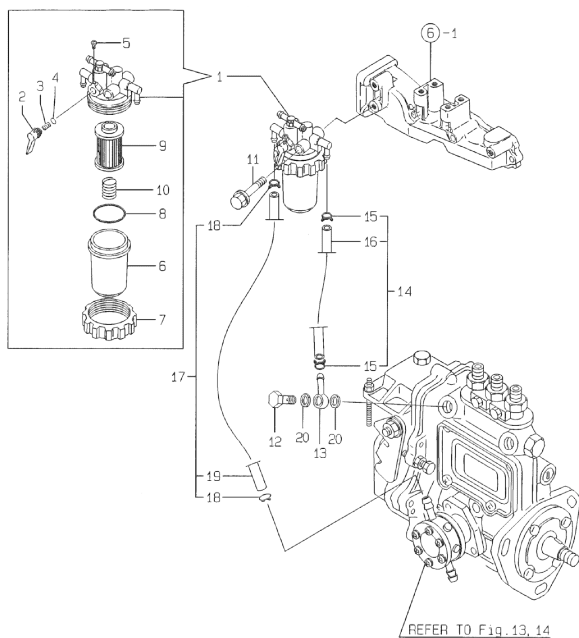


N:Old $\xrightarrow{\text{Yes}} \text{New, Q:Old} \xrightarrow{\text{No}} \text{New, R:Old} \xrightarrow{\text{Yes}} \text{New, S:Old} \xrightarrow{\text{No}} \text{New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change}$
 Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.17. FUEL INJECTION VALVE

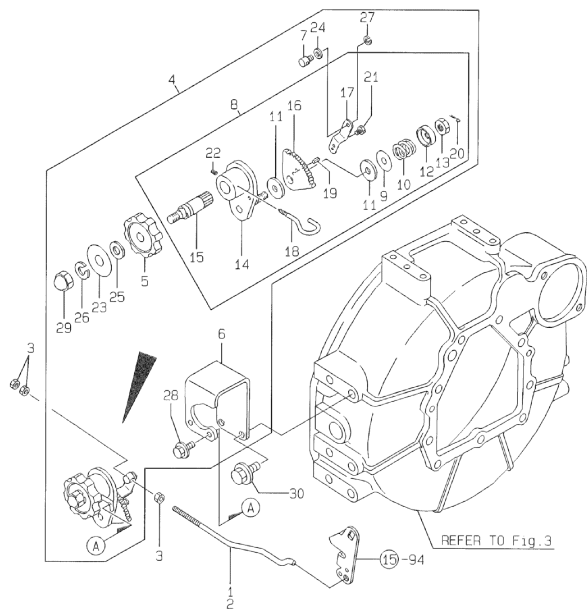


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729500-53200	VALVE ASSY,INJECTION	3							
2	1	719818-53100	VALVE ASSY,INJECTION		3			3	3		
3	1	729102-53100	VALVE ASSY,INJECTION			3					
4	1	719908-53100	VALVE ASSY,INJECTION				3				
4-1	1	729609-53200	VALVE ASSY,INJECTION				3			N	
(D=E46889)											
5	2	129500-53050	VALVE ASSY,INJECTION	3							
6	2	119818-53000	VALVE ASSY,INJECTION		3			3	3		
7	2	129102-53000	VALVE ASSY,INJECTION			3					
8	2	119908-53000	VALVE ASSY,INJECTION				3				
8-1	2	129609-53100	VALVE ASSY,INJECTION				3			N	
(D=E46889)											
15	2	114250-53080	NUT, NOZZLE D16.95	3	3	3	3	3	3		
19	2	114250-53120	SPRING, NOZZLE	3	3	3	3	3	3		
20	2	114250-53130	SEAT, SPRING	3	3	3	3	3	3		
21	2	114250-53140	PLATE	3	3	3	3	3	3		
22	2	114250-53210	PIN	6	6	6	6	6	6		
23	2	114250-53400	SHIM SET	3	3	3	3	3	3		
35	1	119305-59120	RETAINER, PIPE		1			1	1		
38	2	129150-59131	BOLT, M4X14		1				1		
43	1	119810-59810	PIPE ASSY, INJECTION	1							
44	1	119813-59812	PIPE ASSY, INJECTION		1			1	1		
45	1	119811-59810	PIPE ASSY, INJECTION			1					
46	1	119923-59810	PIPE ASSY, INJECTION				1				
52	1	119810-59820	PIPE ASSY, INJECTION	1							
53	1	119813-59821	PIPE ASSY, INJECTION		1			1	1		
54	1	119811-59820	PIPE ASSY, INJECTION			1					
55	1	119923-59820	PIPE ASSY, INJECTION				1				
61	1	119810-59830	PIPE ASSY, INJECTION	1							
62	1	119813-59831	PIPE ASSY, INJECTION		1			1	1		
63	1	119811-59830	PIPE ASSY, INJECTION			1					
64	1	119923-59831	PIPE ASSY, INJECTION				1				
64-1	1	119923-59832	PIPE ASSY, INJECTION				1			R	
(D=E46889)											
70	1	124066-59100	CLIP, HOSE 8	5	5	5	5	5	5		
71	1	121250-59550	PIPE, FUEL D8X120	2	2	2	2	2	2		
72	1	119840-59570	JOINT	1	1	1	1	1	1		
73	1	129150-59580	CAP	1	1	1	1	1	1		
74	1	129100-59951	VALVE ASSY, CHECK	1	1	1	1	1	1		
82	1	22190-120002	WASHER, SEAL 12	2	2	2	2	2	2		
83	1	129150-59120	RETAINER, PIPE	1	1	1	1	1	1		
86	2	129150-59131	BOLT, M4X14	2	2	2	2	2	2		
87	1	129210-59130	PIPE ASSY, FUEL	1	1	1	1	1	1		
88	2	124766-59050	CLIP, HOSE 12	2	2	2	2	2	2		
89	2	105025-59750	PIPE, FUEL	1	1	1	1	1	1		
90	1	119840-59500	PIPE ASSY, RETURN	1	1	1	1	1	1		
91	2	124066-59100	CLIP, HOSE 8	2	2	2	2	2	2		
92	2	119840-59560	PIPE, FUEL RETURN	1	1	1	1	1	1		



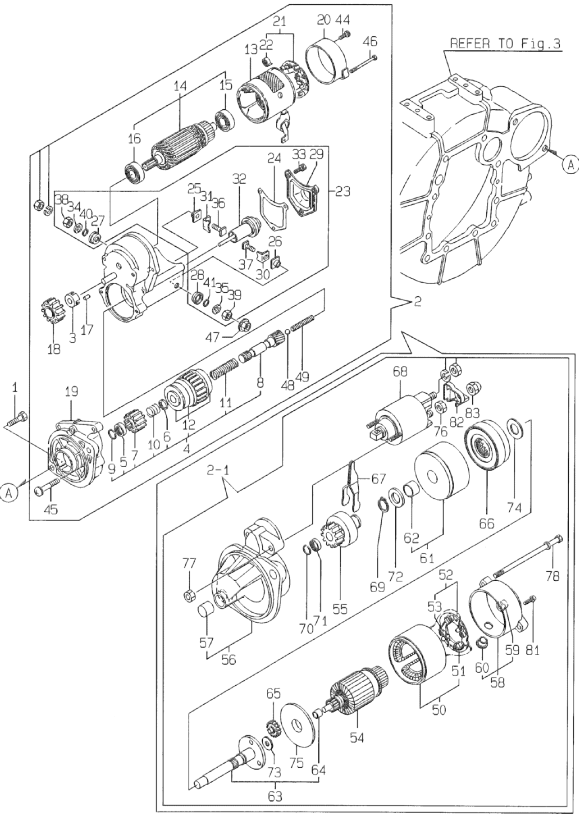
				(A)=3TNE78A-SA01 (B)=3TNE78AG1A01 (C)=3TNE78AG2A01	(D)=3TNE78A-EA01 (E)=3TNE78ACG1A1 (F)=3TNE78ACG1A1						
No.	Lev.	Parts No.	Description	Qty						I R	
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119833-55620	FILTER ASSY, FUEL	1	1	1	1	1	1		
2	2	119810-55340	LEVER	1	1	1	1	1	1		
3	2	104200-55330	SPRING, VALVE	1	1	1	1	1	1		
4	2	24311-240100	O-RING, 1AP10A	1	1	1	1	1	1		
5	2	104200-55750	SCREW, M4	1	1	1	1	1	1		
6	2	121254-55510	COVER	1	1	1	1	1	1		
7	2	110250-55610	RING, RETAINING	1	1	1	1	1	1		
8	2	102103-55520	O-RING	1	1	1	1	1	1		
9	2	119810-55650	ELEMENT	1	1	1	1	1	1		
10	2	121250-55620	SPRING	1	1	1	1	1	1		
11	1	26014-080702	BOLT, M8X 70	1	1	1	1	1	1		
12	1	103854-39140	BOLT, PIPE JOINT	1	1	1	1	1	1		
13	1	101304-59020	JOINT, PIPE 12	1	1	1	1	1	1		
14	1	129210-59040	PIPE ASSY, FUEL	1	1	1	1	1	1		
15	2	124766-59050	CLIP, HOSE 12	2	2	2	2	2	2		
16	2	129555-59510	PIPE, D13/7.5X180	1	1	1	1	1	1		
17	1	129210-59130	PIPE ASSY, FUEL	1	1	1	1	1	1		
18	2	124766-59050	CLIP, HOSE 12	2	2	2	2	2	2		
19	2	105025-59750	PIPE, FUEL	1	1	1	1	1	1		
20	1	22190-120002	WASHER, SEAL 12	2	2	2	2	2	2		

Fig.19. ENGINE CONTROL DEVICE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-66120	LINK, ENGINE CONTROL	1		1	1				
2	1	119888-66150	LINK		1			1	1		
3	1	26756-050002	NUT, LOCK M5	3	3	3	3	3	3		
4	1	119888-66160	CONTROLLER ASSY	1	1	1	1	1	1		
5	2	126650-66020	HANDLE, REGULATOR	1	1	1	1	1	1		
6	2	119888-66110	BRACKET	1	1	1	1	1	1		
7	2	119888-66130	PIVOT	1	1	1	1	1	1		
8	2	171048-67010	CONTROLLER ASSY	1	1	1	1	1	1		
9	3	171102-66080	WASHER	1	1	1	1	1	1		
10	3	104200-66820	SPRING	1	1	1	1	1	1		
11	3	104200-66830	PLATE, FRICTION	2	2	2	2	2	2		
12	3	104200-66850	WASHER	1	1	1	1	1	1		
13	3	104200-66860	NUT	1	1	1	1	1	1		
14	3	171085-67100	BRACKET	1	1	1	1	1	1		
15	3	171085-67110	SHAFT, DRIVE	1	1	1	1	1	1		
16	3	171085-67120	GEAR	1	1	1	1	1	1		
17	3	171048-67130	LEVER	1	1	1	1	1	1		
18	3	171048-67140	STOPPER	1	1	1	1	1	1		
19	3	22351-020006	PIN, SPRING 2.0X 6	1	1	1	1	1	1		
20	3	22411-200150	COTTER PIN	1	1	1	1	1	1		
21	3	26116-060082	BOLT, M6X 8 PLATED	1	1	1	1	1	1		
22	3	26921-050122	SCREW, M5X12	1	1	1	1	1	1		
23	2	170064-67210	LABEL, HANDLE	1	1	1	1	1	1		
24	2	22117-060000	WASHER, 6	1	1	1	1	1	1		
25	2	22137-100000	WASHER, 10	1	1	1	1	1	1		
26	2	22217-100000	WASHER, SPRING 10	1	1	1	1	1	1		
27	2	22272-000050	RING, E- 5	1	1	1	1	1	1		
28	2	26106-060102	BOLT, M6X 10 PLATED	2	2	2	2	2	2		
29	2	26657-100002	NUT, CAP M10	1	1	1	1	1	1		
30	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2	2	2		

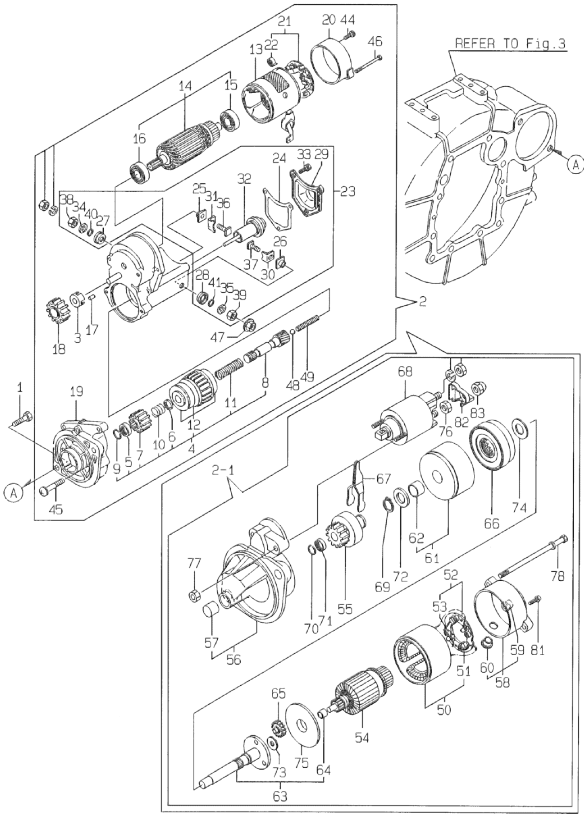
Fig.20. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26116-120252	BOLT, M12X 25 PLATED	2	2	2	2	2	2		
2	1	124520-77011	STARTER	1	1	1	1	1	1		
2-1	1	124520-77012	STARTER, P1.0	1	1	1	1	1	1	R	
3	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0280630011	RETAINER	1	1	1	1	1	1	Z	
4	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0280992761	CLUTCH KIT	1	1	1	1	1	1	Z	
5	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0280210230	NUT	1	1	1	1	1	1	Z	
6	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0283270140	RETAINER	1	1	1	1	1	1	Z	
7	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0283712350	PINION, STARTER	1	1	1	1	1	1	Z	
8	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0283810040	SHAFT	1	1	1	1	1	1	Z	
9	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9490721080	RING	1	1	1	1	1	1	Z	
10	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9491703371	SPRING, COIL	1	1	1	1	1	1	Z	
11	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9491704260	SPRING	1	1	1	1	1	1	Z	
12	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	121120-77930	CASE ASSY, STARTER	1	1	1	1	1	1	Z	
13	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0281003751	YOKE ASSY	1	1	1	1	1	1	Z	
14	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0282001531	ARMATURE ASSY	1	1	1	1	1	1	Z	
15	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9491001360	BEARING	1	1	1	1	1	1	Z	
16	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9491001860	BEARING, BALL	1	1	1	1	1	1	Z	
17	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0283060061	ROLLER	5	5	5	5	5	5	Z	
18	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0283711420	PINION	1	1	1	1	1	1	Z	
19	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0284004910	HOUSING	1	1	1	1	1	1	Z	
20	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0285040631	FRAME ASSY	1	1	1	1	1	1	Z	
21	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0285100460	HOLDER ASSY, BRUSH	1	1	1	1	1	1	Z	
22	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X9491730461	SPRING	4	4	4	4	4	4	Z	
23	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	2	X0534006460	SWITCH	1	1	1	1	1	1	Z	
24	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0534040320	GASKET	1	1	1	1	1	1	Z	
25	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0534490120	BUSH	1	1	1	1	1	1	Z	
26	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)					
	3	X0534490120	BUSH	1	1	1	1	1	1	Z	

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 ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.20. STARTING MOTOR

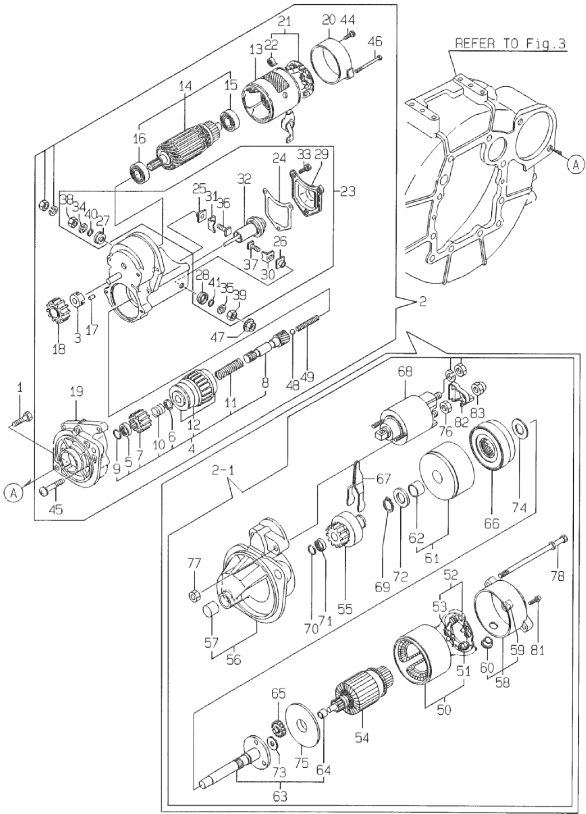


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	3	X0534490230	BUSH	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
28	3	X0534490230	BUSH	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
29	3	X0535050620	COVER	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
30	3	X0535130241	PLATE	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
31	3	X0535130320	PLATE	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
32	3	X0536600401	PLUNGER	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
33	3	X9151005141	BOLT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
34	3	X9490170900	WASHER	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
35	3	X9490170900	WASHER	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
36	3	X9490441303	BOLT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
37	3	X9490441312	BOLT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
38	3	X9490502820	NUT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
39	3	X9490502820	NUT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
40	3	X9491402100	O-RING	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
41	3	X9491402100	O-RING	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
44	2	X9490071810	SCREW	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
45	2	X9490071970	SCREW	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
46	2	X9490471500	BOLT W/WASHER	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
47	2	X9490561370	NUT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
48	2	X9491200240	BALL	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
49	2	X9491703380	SPRING	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	Z	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
50	2	X0281007680	YOKE ASSY	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	W	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
51	3	X0280996180	STARTER KIT	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	W	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
52	2	X0285105190	HOLDER ASSY	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	W	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		
53	3	X0285205030	SPRING	(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)	W	
				(A=E43186)	(B=E44198)	(C=E43507)	(D=E46889)	(E=E51187)	(F=E25000)		

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 ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

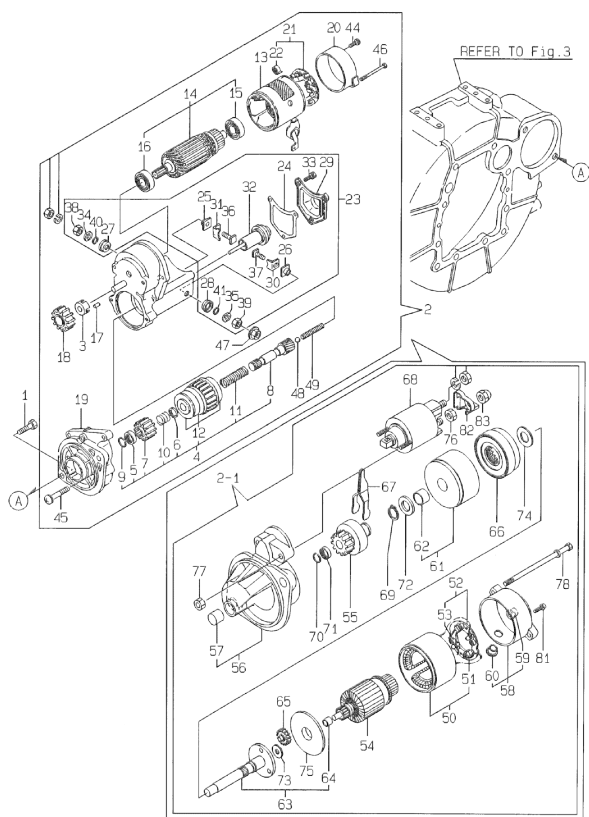
OCR10-M51800

Fig.20. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
54	2	X0282005871	ARMATURE ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
55	2	X0283009160	CLUTCH ASSY	1	1	1	1	1	1	W	
56	2	X2284008090	HOUSING ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
57	3	X9491050100	BEARING, NEEDLE	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
58	2	X0285005770	FRAME ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
59	3	X9491040990	BEARING	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
60	3	X0280626010	COVER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
61	2	X0284105010	BEARING ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
62	3	X9491034330	BEARING	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
63	2	X0286105050	SHAFT ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
64	3	X9491034320	BEARING	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
65	2	X0286305010	GEAR	3	3	3	3	3	3	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
66	2	X0286355010	GEAR	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
67	2	X0287405140	LEVER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
68	2	X0534007800	SWITCH ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
69	2	X9055715000	RING	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
70	2	X9490721360	RING	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
71	2	X0280210331	NUT	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
72	2	X9490138110	WASHER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
73	2	X9490138090	WASHER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
74	2	X9490138100	WASHER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
75	2	X0284525010	PLATE	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
76	2	X9490562360	NUT	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
77	2	X9490560750	NUT	2	2	2	2	2	2	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
78	2	X9490423520	BOLT, THROUGH	2	2	2	2	2	2	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			
81	2	X9490065670	SCREW, M4X6	2	2	2	2	2	2	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889)			(E=E51187)			(F=E25000)			

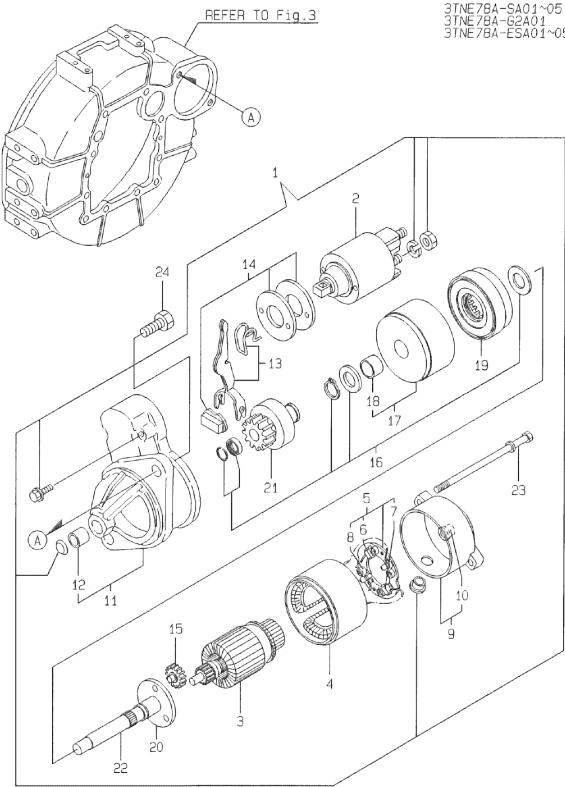
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.



				(A)=3TNE78A-SA01 (B)=3TNE78AG1A01 (C)=3TNE78AG2A01					(D)=3TNE78A-ESA0 (E)=3TNE78ACEG1A (F)=3TNE78ACG1A1			
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
82	2	X02080335360	COVER, TERMINAL	(A=E43186) (B=E44198) (C=E43507) (D=E46889)	(E=E51187) (F=E25000)	1	1	1	1	1	W	
83	2	X1289510130	NUT	(A=E43186) (B=E44198) (C=E43507) (D=E46889)	(E=E51187) (F=E25000)	1	1	1	1	1	W	

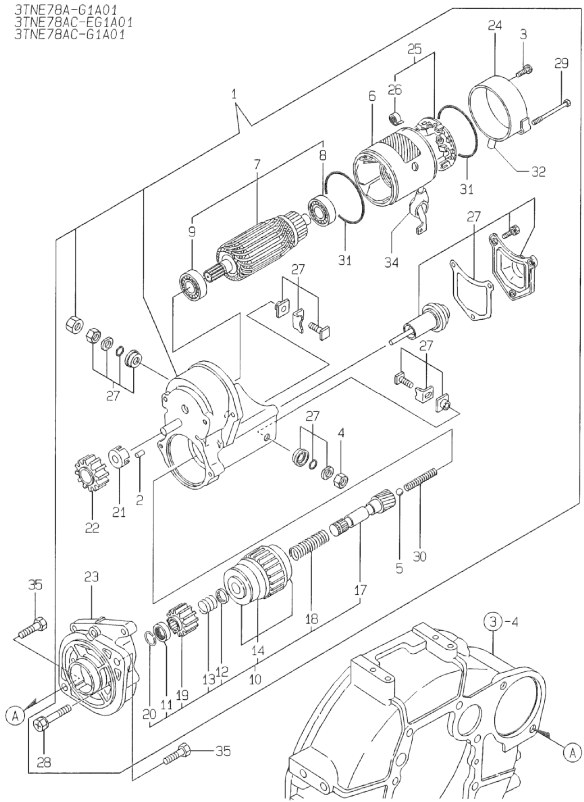
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.21. STARTING MOTOR(COLD DISTRICT)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129698-77010	STARTER, 12V1.2KW	1		1	1				
2	2	129698-77020	SWITCH ASSY	1		1	1				
3	2	129698-77100	ARMATURE ASSY	1		1	1				
4	2	129698-77110	YOKE ASSY	1		1	1				
5	2	129698-77120	HOLDER ASSY, BRUSH	1		1	1				
6	3	129698-77140	BRUSH SET	1		1	1				
7	3	129698-77130	BRUSH	2		2	2				
8	3	129698-77150	SPRING, BRUSH	4		4	4				
9	2	129698-77161	COVER ASSY	1		1	1				
10	3	129698-77170	BEARING	1		1	1				
11	2	129698-77260	CASE ASSY	1		1	1				
12	3	X2114535200	METAL, STARTER	1		1	1				
13	2	129698-77270	LEVER SET, SHIFT	1		1	1				
14	2	129698-77280	COVER KIT	1		1	1				
15	2	129698-77240	GEAR	3		3	3				
16	2	129698-77250	WASHER SET	1		1	1				
17	2	129698-77180	BRACKET	1		1	1				
18	3	129698-77190	BRACKET	1		1	1				
19	2	129698-77200	GEAR, INTERNAL	1		1	1				
20	2	129698-77210	BRACKET	1		1	1				
21	2	129698-77220	PINION ASSY	1		1	1				
22	2	129698-77230	SHAFT	1		1	1				
23	2	124195-77770	BOLT, THROUGH	2		2	2				
24	1	26116-120252	BOLT, M12X 25 PLATED	2		2	2				

Fig.22. STARTING MOTOR(COLD DISTRICT)

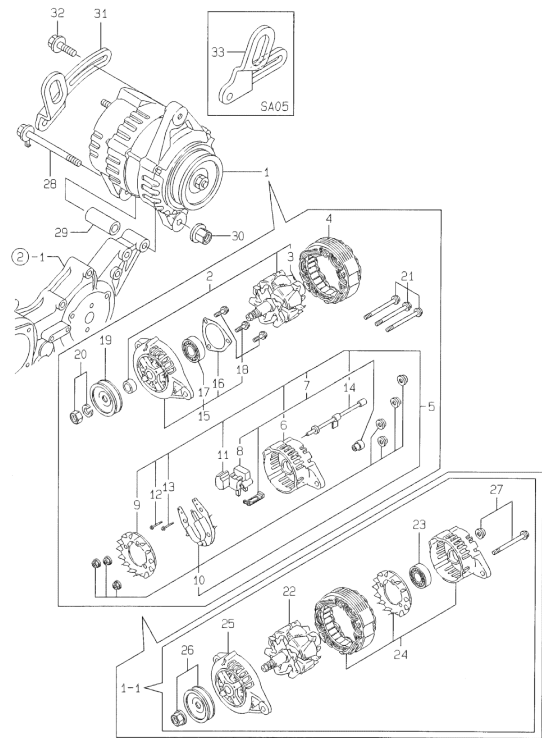


(A)=3TNE78A-SA01
(B)=3TNE78AG1A01
(C)=3TNE78AG2A01
(D)=3TNE78A-ESA0
(E)=3TNE78ACEG1A
(F)=3TNE78ACG1A1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129129-77010	STARTER ASSY	1				1	1		
2	2	X0283060061	ROLLER		5			5	5		
3	2	129129-77460	SCREW		2			2	2		
4	2	X9490561370	NUT		1			1	1		
5	2	X9491200240	BALL		1			1	1		
6	2	129129-77210	YOKE ASSY		1			1	1		
7	2	129129-77220	ARMATURE ASSY		1			1	1		
8	3	129129-77230	BEARING		1			1	1		
9	3	129129-77240	BEARING		1			1	1		
10	2	129129-77250	STARTER		1			1	1		
11	3	X0280210230	NUT		1			1	1		
12	3	X0283270140	RETAINER		1			1	1		
13	3	X9491703371	SPRING, COIL		1			1	1		
14	3	129129-77390	CLUTCH ASSY		1			1	1		
17	3	129129-77400	SHAFT		1			1	1		
18	3	129129-77410	SPRING, COIL		1			1	1		
19	3	129129-77420	PINION, STARTER		1			1	1		
20	3	129129-77430	RING		1			1	1		
21	2	129129-77260	RETAINER		1			1	1		
22	2	129129-77270	PINION		1			1	1		
23	2	129129-77280	HOUSING		1			1	1		
24	2	129129-77290	FRAME		1			1	1		
25	2	129129-77300	HOLDER ASSY		1			1	1		
26	3	X9491730461	SPRING		4			4	4		
27	2	129129-77310	SWITCH ASSY		1			1	1		
28	2	129129-77320	BOLT		2			2	2		
29	2	129129-77330	BOLT		2			2	2		
30	2	129129-77340	SPRING		1			1	1		
31	2	129129-77350	O-RING		2			2	2		
32	2	129129-77362	COVER		1			1	1		
34	2	129129-77380	CAP		1			1	1		
35	1	26116-120252	BOLT, M12X 25 PLATED		2			2	2		

OCR10-M51800

Fig.23. GENERATOR



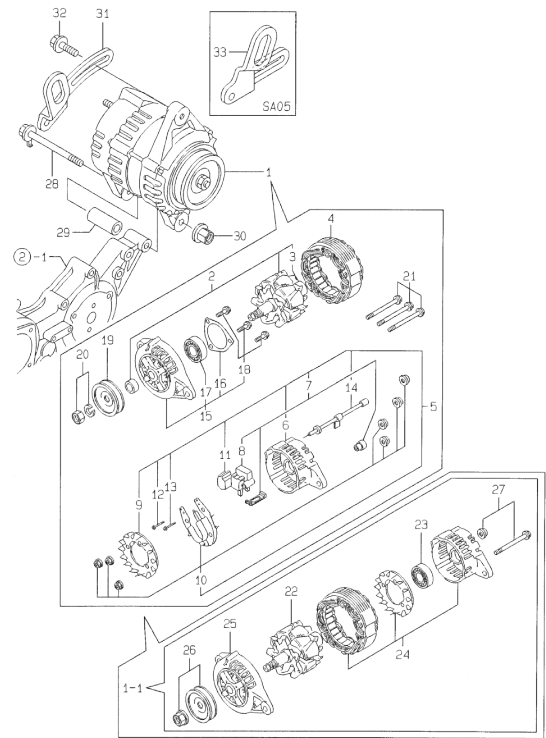
Remarks
(1) FOR 3TNE78A-SA01,02,03,04.
(2) FOR 3TNE78A-SA05.
(3) FOR 3TNE78A-SA/ESA04.

(A)=3TNE78A-SA01
(B)=3TNE78AG1A01
(C)=3TNE78AG2A01
(D)=3TNE78A-ESA0
(E)=3TNE78ACG1A
(F)=3TNE78ACG1A1

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	1	119836-77201	GENERATOR	1	1	1	1	1	1	R	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
2	2	119836-77700	ROTOR ASSY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
3	3	119836-77850	BALL BEARING	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
4	2	119836-77710	STATOR ASSY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
5	2	119836-77721	COVER ASSY, REAR	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
6	3	119836-77730	COVER, REAR	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
7	3	119836-77741	BRUSH ASSY,REGULATOR	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
8	4	119836-77750	BRUSH ASSY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
9	3	119836-77760	GUIDE, FAN SIDE	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
10	3	119836-77770	DIODE ASSY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
11	3	119836-77780	CONDENSER	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
12	3	119836-77871	BOLT (1)	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
13	3	119836-77880	BOLT (2)	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
14	3	119836-77890	WIRE ASSY, LEAD	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
15	2	119836-77790	COVER ASSY, FRONT	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
16	3	119836-77800	RETAINER, BEARING	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
17	3	119836-77840	BALL BEARING	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
18	3	119836-77860	SCREW KID	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
19	2	119836-77810	PULLEY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
20	2	119836-77820	NUT ASSY, PULLEY	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
21	2	119836-77830	BOLT, THROUGH	1	1	1	1	1	1	Z	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
22	2	129612-77700	ROTOR ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
23	2	129612-77710	BEARING, BALL	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
24	2	119836-77920	BRACKET ASSY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									
25	2	129612-77730	BRACKET ASSY, FILTER	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198) (C=E43507) (D=E46889) (E=E51186) (F=E25000)									

N:Old $\frac{N_{10}}{100}$ New, Q:Old $\frac{Q_{10}}{100}$ New, R:Old $\frac{R_{10}}{100}$ New, S:Old $\frac{S_{10}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

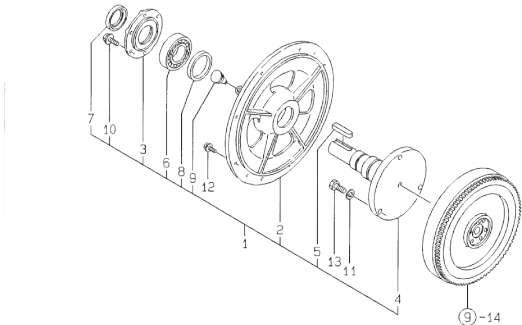
Fig.23. GENERATOR



Remarks
(1) FOR 3TNE78A-SA01,02,03,04.
(2) FOR 3TNE78A-SA05.
(3) FOR 3TNE78A-SA/ESA04.

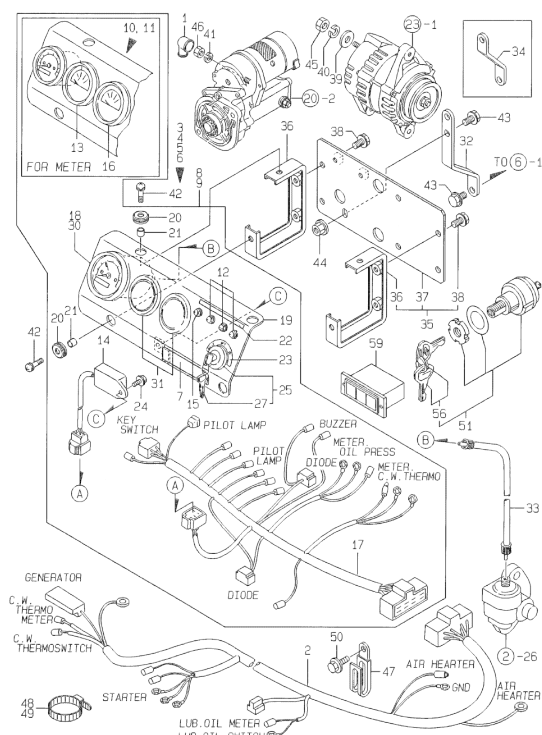
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	2	129612-77740	PULLEY	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198)	(C=E43507) (D=E46889)			(E=E51186)			(F=E25000)		
27	2	129612-77750	SCREW KIT	1	1	1	1	1	1	W	
		(A=E43186) (B=E44198)	(C=E43507) (D=E46889)			(E=E51186)			(F=E25000)		
28	1	129136-77251	BOLT, M8X110	1	1	1	1	1	1		
29	1	119820-77340	PIECE, DISTANCE	1	1	1	1	1	1		
30	1	129612-77260	NUT, ALTERNATOR	1	1	1	1	1	1		
31	1	170122-77330	ADJUSTER	1	1	1	1	1	1		1
31-1	1	119867-77331	ADJUSTER	1			1			N	3
		(A=EXXX.)	(D=EXXX.)								
32	1	119810-77340	BOLT, ADJUSTER	1	1	1	1	1	1		
33	1	170122-77349	ADJUSTER	1							2

Fig.24. OUTPUT SHAFT



Remarks
* FOR 3TNE78A-SA01.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-89100	SHAFT, STUB	1							
2	2	119888-89110	HOUSING, BEARING	1							
3	2	171048-89120	CASE, OIL SEAL	1							
4	2	119888-89210	SHAFT	1							
5	2	22512-100700	KEY, 10X 70	1							
6	2	24151-222090	BEARING, 22209	1							
7	2	24421-456209	SEAL, OIL TC456209	1							
8	2	24421-557209	SEAL, OIL TC557209	1							
9	2	24754-320020	CUP, GREASE 32X1/4	1							
10	2	26106-080202	BOLT, M8X 20 PLATED	6							
11	1	22217-120000	WASHER, SPRING 12	3							
12	1	26106-100222	BOLT, M10X 22 PLATED	8							
13	1	26206-120352	BOLT, M12X 35 PLATED	3							



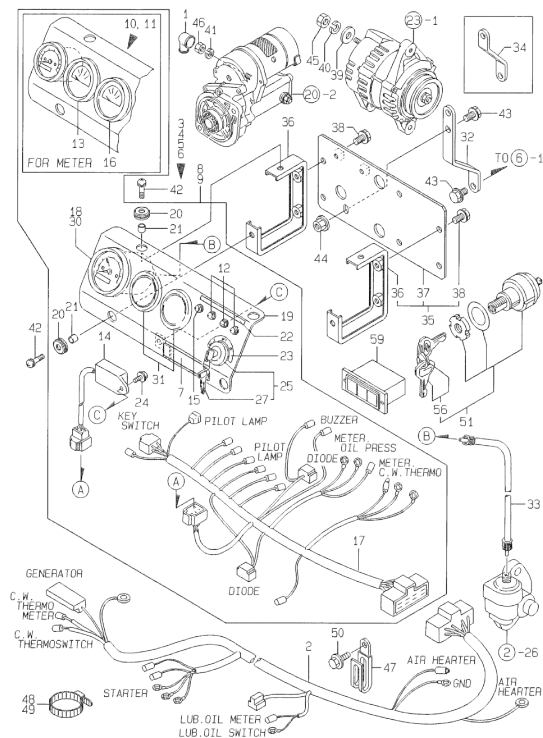
Remarks
(1) WITH C.W.THERMOMETER(REF.NO.13,
P/# 171010-77850) & PRESSURE
GAUGE(REF.NO.16,P/# 171090-91010)

				(A)=3TNE78A-SA01 (B)=3TNE78AG1A01 (C)=3TNE78AG2A01	(D)=3TNE78A-EA01 (E)=3TNE78ACEG1A (F)=3TNE78ACG1A1								
No.	Lev.	Parts No.	Description	Qty								I	R
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	119773-77030	COVER	1	1	1	1	1	1				
1-1	1	124550-77030	COVER, TERMINAL	1	1	1	1	1	1	1	R		
		(A=E00XX)	(B=E00XX)	(C=E00XX)	(D=E00XX)	(E=E00XX)	(F=E00XX)						
2	1	119888-91022	HARNES, WIRE	1	1	1	1	1	1				
3	1	119888-91101	PANEL ASSY	1		1	1						
4	1	119888-91301	PANEL ASSY, INSTRUM		1				1	1			
5	1	119888-91201	PANEL ASSY	1		1	1				1		
6	1	119888-91311	PANEL ASSY		1				1	1	1		
7	2	104507-07190	LABEL, YANMAR	1	1	1	1	1	1	1			
8	2	170121-91100	PANEL ASSY	1		1	1						
9	2	119888-91320	PANEL ASSY		1				1	1			
10	2	119888-91220	PANEL ASSY	1		1	1				1		
11	2	119888-91330	PANEL ASSY		1				1	1	1		
12	3	124732-77720	LAMP, CHARGING	3	3	3	3	3	3	3			
13	3	171010-77850	THERMOSTAT	1	1	1	1	1	1	1			
14	3	128300-77920	TIMER	1	1	1	1	1	1	1			
15	3	124559-77971	LAMP, PILOT	1	1	1	1	1	1	1			
16	3	171090-91010	GAUGE	1	1	1	1	1	1	1	1		
17	3	119888-91031	HARNES, WIRE	1	1	1	1	1	1	1			
18	3	171080-91100	TACHOMETER	1		1	1						
18-1	3	171080-91101	TACHOMETER	1		1	1				N		
		(A=E52470)	(C=E52379)	(D=E52518)									
19	3	119888-91110	BODY, PANEL	1	1	1	1	1	1	1			
20	3	121400-91520	ABSORBER	4	4	4	4	4	4	4			
21	3	121400-91530	SPACER	4	4	4	4	4	4	4			
22	3	119888-91610	LABEL, CW & OIL LAMP	1	1	1	1	1	1	1			
23	3	119888-91620	LABEL, KEY SWITCH	1	1	1	1	1	1	1			
24	3	26106-060102	BOLT, M6X 10 PLATED	1	1	1	1	1	1	1			
25	3	933110-00100	SWITCH ASSY, STARTER	1	1	1	1	1	1	1			
27	4	933110-00301	KEY ASSY	2	2	2	2	2	2	2			
30	3	171082-91100	TACHOMETER		1				1	1			
31	3	124770-91220	COVER	2	2								
32	1	119822-91140	RETAINER, PANEL	1		1	1						
33	1	124701-91140	CABLE, L=985	1	1	1	1	1	1	1			
34	1	129608-91140	RETAINER, PANEL		1				1	1			
35	1	129608-91151	BRACKET ASSY	1	1	1	1	1	1	1			
36	2	119888-91120	SUPPORT	2	2	2	2	2	2	2			
37	2	129608-91131	BRACKET, PANEL	1	1	1	1	1	1	1			
37-1	2	129608-91132	BRACKET, PANEL	1	1	1	1	1	1	1	N		
		(A=E40496)	(B=E40547)	(C=E41107)	(D=E40883)	(E=E51187)	(F=E25000)						
38	2	26106-080122	BOLT, M8X 12 PLATED	4	4	4	4	4	4	4			
39	1	122117-050000	WASHER, 5	1	1	1	1	1	1	1			
40	1	12217-050000	WASHER, SPRING 5	1	1	1	1	1	1	1			
41	1	12217-080000	WASHER, SPRING 8	1	1	1	1	1	1	1			
42	1	126033-06020	SCREW M 6X 20	4	4	4	4	4	4	4			
43	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2	2	2	2			
44	1	26366-080002	NUT, M8	1	1	1	1	1	1	1			
44-1	1	26306-080002	NUT, M8	1	1	1	1	1	1	1	N		
		(A=E00XX)	(B=E00XX)	(C=E00XX)	(D=E00XX)	(E=E00XX)	(F=E00XX)						
45	1	26716-050002	NUT, M5	1	1	1	1	1	1	1			
46	1	26756-080002	NUT, LOCK M8	1	1	1	1	1	1	1			

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

OCR10-M51800

Fig.25. PANEL



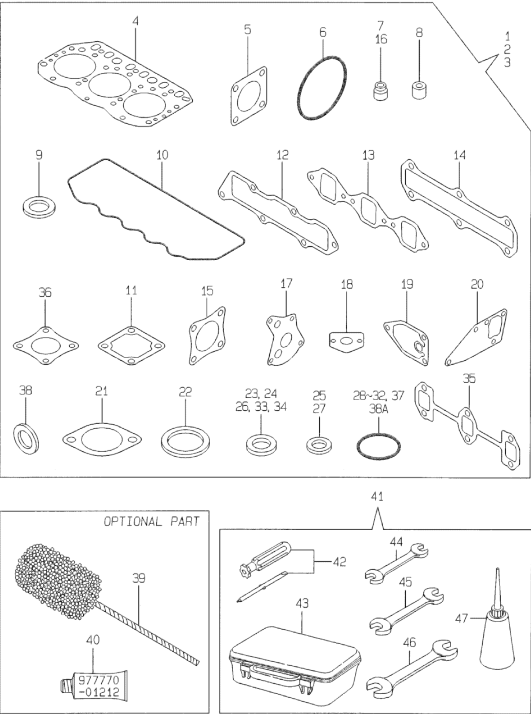
Remarks
(1) WITH C.W.THERMOMETER(REF.NO.13,
P/# 171010-77850) & PRESSURE
GAUGE(REF.NO.16,P/# 171090-91010)

(A)=3TNE78A-SA01
(B)=3TNE78AG1A01
(C)=3TNE78AG2A01
(D)=3TNE78A-ESA0
(E)=3TNE78ACEG1A
(F)=3TNE78ACG1A1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47	1	194180-51640	CLAMP, HARNESS	1	1	1	1	1	1		
48	1	121750-59890	BAND, 140	1	1	1	1	1	1		
49	1	121750-59890	BAND, 140	1	1	1	1	1	1		
50	1	26106-100122	BOLT, M10X 12 PLATED	1	1	1	1	1	1		
51	1	194215-52110	SWITCH, STARTING			1					
56	2	194155-52160	KEY ASSY			1					
59	1	170038-91310	LAMP			1					

N:Old $\frac{Y00}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{Y00}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.26. GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-92620	GASKET SET	1			1				1
2	1	719822-92630	GASKET SET		1			1	1		1
3	1	719822-92640	GASKET SET			1					1
4	2	119818-01330	GASKET, HEAD	1	1	1	1	1	1		
5	2	171353-26081	GASKET	1			1				
6	2	121850-51960	O-RING	1	1	1	1	1	1		
7	2	124160-11340	SEAL, VALVE STEM	3	3	3	3	3	3		
8	2	119625-11870	PROTECTOR, NOZZLE	3	3	3	3	3	3		
8-1	2	119625-11872	PROTECTOR, NOZZLE	3	3	3	3	3	3		R
(A=E50198) (B=E51062) (C=E50644) (D=E50642) (E=E51186) (F=E25000)											
9	2	119625-11880	SEAT, NOZZLE	3	3	3	3	3	3		
10	2	119865-11310	GASKET, BONNET	1	1	1	1	1	1		
11	2	129150-77511	GASKET	1	1	1	1	1	1		
12	2	119813-12110	GASKET, MANIFOLD			1		1	1		
13	2	119810-12111	GASKET, MANIFOLD	1		1	1				
14	2	119813-13110	GASKET	1	1			1	1	1	
15	2	121000-13201	GASKET, SILENCER	1	1	1	1	1	1		
15-1	2	124701-11911	GASKET, SILENCER	1	1	1	1	1	1	1	R
(A=E41747) (B=E42232) (C=E42066) (D=E43005) (E=E51186) (F=E25000)											
16	2	124950-11340	SEAL, VALVE STEM	3	3	3	3	3	3		
17	2	129150-32020	GASKET, PUMP	1	1	1	1	1	1		
18	2	129150-35041	GASKET	1	1	1	1	1	1		
19	2	129150-35111	GASKET	1	1	1	1	1	1		
20	2	129150-42020	GASKET, WATER PUMP	1	1	1	1	1	1		
20-1	2	129486-42050	GASKET, WATER PUMP	1	1	1	1	1	1	1	N
(A=E43002) (B=E43062) (C=E43507) (D=E43005) (E=E51186) (F=E25000)											
21	2	129795-49551	GASKET	1	1	1	1	1	1		
22	2	129150-49811	GASKET, THERMOSTAT	1	1	1	1	1	1		
23	2	22190-100002	WASHER, SEAL 10	2	2	2	2	2	2		
24	2	22190-080002	WASHER, SEAL 6	7	7	7	7	7	7		
25	2	129150-49360	GASKET	1	1	1	1	1	1		
26	2	22190-120002	WASHER, SEAL 12	4	4	4	4	4	4		
27	2	124465-44950	GASKET, 16	2	2	2	2	2	2		
28	2	24311-000120	O-RING, 1AP12.0	3	3	3	3	3	3		
29	2	24311-000160	O-RING, 1AP16.0	3	3	3	3	3	3		
30	2	24311-000320	O-RING, 1AP32.0	2	2	2	2	2	2		
31	2	24341-000240	O-RING, 1AS24.0	2	2	2	2	2	2		
32	2	24341-000500	O-RING, 1AS50.0	1	1	1	1	1	1		
33	2	22190-080003	WASHER, SEAL 8	5			5				
34	2	22190-220002	WASHER, SEAL 22	1	1	1	1	1	1		
35	2	119810-13110	GASKET	1		1	1				
36	2	124701-11911	GASKET, SILENCER	1	1	1	1	1	1		
37	2	24321-000850	O-RING, 1AG85.0	1			1				
38	2	129155-52050	GASKET	1	1	1	1	1	1		
38A	2	119609-32040	O-RING, P16	2	2	2	2	2	2	2	W
(A=E52268) (B=E52282) (C=E52367) (D=E52265) (E=E51187) (F=E25000)											
39	1	129400-92420	HONE	1	1	1	1	1	1	1	1
40	1	977770-01212	GASKET, LIQUID	1	1	1	1	1	1	1	1
41	1	721400-92102	BOX ASSY, TOOL	1	1	1	1	1	1	1	
42	2	104200-92350	DRIVER, SCREW	1	1	1	1	1	1	1	
43	2	104200-92600	BOX, TOOL	1	1	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 ++
Copyright (C) YANMAR CO., LTD. All Rights Reserved.

Fig.26. GASKET SET



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

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	18	13
102103-55520	18	8
103854-39140	18	12
104200-55330	18	3
104200-55750	18	5
104200-66820	19	10
104200-66830	19	11
104200-66850	19	12
104200-66860	19	13
104200-92350	26	42
104200-92600	26	43
104211-11180	4	15
	5	24
104211-11370	4	19
	5	28
104507-07190	25	7
105025-59750	17	89
	18	19
110250-55610	18	7
114250-39450	10	38 -1
114250-53080	17	15
114250-53120	17	19
114250-53130	17	20
114250-53140	17	21
114250-53210	17	22
114250-53400	17	23
119131-18320	7	4
119259-44570	12	8
119305-59120	17	35
119358-13640	7	13
119600-34800	10	16
119609-32040	2	13 -1
	26	38 A
119620-01750	3	5
119620-02020	1	13
119620-13501	7	8
119620-13510	7	9
119620-13520	7	10
119620-13560	7	11
119620-44741	11	20
119621-44500	12	7
119621-44560	12	47
119621-66610	15	106
119621-66710	15	108
119623-49010	12	40
119623-49100	12	39
119625-11870	4	20
	5	42
	26	8
119625-11872	4	20 -1

Parts No.	Fig. No.	Ref. No.
119625-11872	5	42 -1
	26	8 -1
119625-11880	4	21
	5	43
	26	9
119625-11900	4	22
	5	44
119640-01640	3	9
		15
119653-77950	15	102
	16	106
119660-61901	15	72
	16	80
119685-61940	15	91
119685-61950	15	92
119773-77030	25	1
119773-91501	10	40 -1
119802-11280	4	35 -1
	5	41 -1
119808-12520	6	16
		24
119808-12530	6	17
		25
119808-12540	6	18
		27
119810-01200	1	22
119810-01730	3	12
119810-01770	3	14
119810-01780	3	23
119810-01790	3	8
119810-02800	1	14
119810-02870	1	24
119810-02930	1	17
119810-02940	1	27
119810-11100	4	12
	5	21
119810-11110	4	13
119810-11120	4	14
	5	22
119810-11130	5	23
119810-11240	4	25
	5	31
119810-12111	6	20
	26	13
119810-13100	7	24
119810-13110	7	25
	26	35
119810-14400	8	2
119810-14580	8	3
119810-23200	9	44

Parts No.	Fig. No.	Ref. No.
119810-23600	9	45
119810-23610	9	47
119810-23910	9	43
119810-35300	10	20
119810-35401	10	19
119810-39200	10	34
119810-42001	11	1
119810-51040	13	11
	14	10
119810-55340	18	2
119810-55650	18	9
119810-59810	17	43
119810-59820	17	52
119810-59830	17	61
119810-77340	23	32
119811-59810	17	45
119811-59820	17	54
119811-59830	17	63
119812-11700	4	4
119813-12100	6	1
119813-12110	6	3
	26	12
119813-13100	7	1
119813-13110	7	2
	26	14
119813-21000	9	1
119813-22300	9	37
119813-59812	17	44
119813-59821	17	53
119813-59831	17	62
119818-01330	1	23
	26	4
119818-22080	9	26
119818-22090	9	27
119818-22500	9	31
119818-22510	9	32
119818-22900	9	49
119818-22930	9	50
119818-22950	9	53
119818-53000	17	6
119820-77340	12	53
	23	29
119822-12500	6	22
119822-12510	6	23
119822-44560	12	47 -1
119822-44940	12	49
119822-44950	12	52
119822-44970	12	58
119822-91140	25	32
119823-49010	12	43

Parts No.	Fig. No.	Ref. No.
119823-49100	12	42
119833-55620	18	1
119836-77200	23	1
119836-77201	23	1 -1
119836-77700	23	2
119836-77710	23	4
119836-77721	23	5
119836-77730	23	6
119836-77741	23	7
119836-77750	23	8
119836-77760	23	9
119836-77770	23	10
119836-77780	23	11
119836-77790	23	15
119836-77800	23	16
119836-77810	23	19
119836-77820	23	20
119836-77830	23	21
119836-77840	23	17
119836-77850	23	3
119836-77860	23	18
119836-77871	23	12
119836-77880	23	13
119836-77890	23	14
119836-77920	23	24
119840-59500	17	90
119840-59560	17	92
119840-59570	17	72
119843-61540	15	63
119865-11200	5	30
119865-11210	4	24
119865-11310	4	46
	5	55
	26	10
119865-21600	9	17
		25
119867-77331	23	31 -1
119888-01600	3	2
119888-08100	12	1
119888-08110	12	2
119888-13101	7	26
119888-13501	7	28
119888-13502	7	28 -1
119888-13600	7	29
119888-13651	7	30
119888-13670	7	31
119888-13680	7	32
119888-21450	9	57
119888-21590	9	14
119888-44950	12	13

Parts No. Index

Parts No.	Fig. No.	Ref. No.
119888-44960	12	14
119888-44970	12	15
119888-44980	12	38
119888-66110	19	6
119888-66120	19	1
119888-66130	19	7
119888-66150	19	2
119888-66160	19	4
119888-89100	24	1
119888-89110	24	2
119888-89210	24	4
119888-91022	25	2
119888-91031	25	17
119888-91101	25	3
119888-91110	25	19
119888-91120	25	36
119888-91201	25	5
119888-91220	25	10
119888-91301	25	4
119888-91311	25	6
119888-91320	25	9
119888-91330	25	11
119888-91610	25	22
119888-91620	25	23
119908-51100	14	15
119908-51300	14	31
119908-53000	17	8
119908-61500	16	41 -1
		42
119908-61501	15	43 -1
	16	41 -2
		42 -1
119923-22080	9	28
119923-59810	17	46
119923-59820	17	55
119923-59831	17	64
119923-59832	17	64 -1
119988-61070	15	13
119988-61400	15	27
119988-61460	15	35
120323-61470	16	107
121000-13201	7	7
		27
	26	15
121023-01550	2	24
121023-26070	8	28
121111-21501	9	13
121120-77930	20	12
121250-44590	12	11
121250-44901	11	33

Parts No.	Fig. No.	Ref. No.
121250-55620	18	10
121250-59550	17	71
121254-55510	18	6
121256-44600	12	32
121400-44640	12	51
		51 -1
121400-44650	12	48
121400-91520	25	20
121400-91530	25	21
121450-01560	2	6
121450-42450	11	29
121520-34810	10	17
121521-12400	6	6
121550-49111	11	28
121750-59890	12	45
	25	48
		49
121850-11860	5	16
121850-21680	9	12
121850-51960	2	12
	26	6
121855-13821	7	14
121855-13830	7	15
122117-51560	13	59
	14	59
122710-51090	13	15
	14	14
123500-13840	7	16
124060-11800	4	8
	5	14
124066-59100	17	70
		91
124160-01751	2	7
	4	65
	5	49
124160-01910	1	5
		21
124160-11340	4	17
	5	26
	26	7
124160-11360	4	50
	5	59
124160-39140	10	33
124160-39450	10	38
124195-77770	21	23
124240-01871	2	8
124250-49351	11	31
124450-44510	12	26
124450-44530	12	28
124450-44550	12	31

Parts No.	Fig. No.	Ref. No.
124450-44560	12	29
124465-44950	11	30
		34
	26	27
124520-77011	20	2
124520-77012	20	2 -1
124550-01590	2	34
		37
124550-21600	9	21
124550-51350	13	41
	14	40
124550-51370	13	42
	14	41
124550-59820	10	43
124550-59830	10	42
124550-66370	15	74
124550-77030	25	1 -1
124559-77971	25	15
124574-44761	11	21
124664-13580	7	12
124701-11911	7	27 -1
	26	15 -1
		36
124701-91140	25	33
124732-77720	25	12
124766-59050	12	41
		44
	17	88
	18	15
		18
124770-91220	25	31
124950-11340	4	18
	5	27
	26	16
124950-51190	13	24
	14	21
126650-12680	6	28
126650-66020	19	5
128170-51300	13	35
	14	32
128300-77920	25	14
129001-01250	1	8
129001-32001	10	1
129001-35300	10	29
129001-91840	2	20
129001-91841	2	20 -1
129051-12530	6	26
129052-61050	15	9
	16	7
129052-61060	15	11

Parts No.	Fig. No.	Ref. No.
129052-61060	16	8
129052-61070	15	12
	16	9
129052-61390	15	42
	16	40
129052-61500	15	43
	16	41
129052-61540	15	62
	16	69
129100-01580	3	1
		20
	9	2
129100-25061	8	9
129100-25900	8	19
129100-51300	13	34
129100-51560	13	60 -1
	14	60 -1
129100-51570	13	59 -1
	14	59 -1
129100-52100	13	107
	14	109
129100-59951	17	74
129100-61400	15	26
	16	26
129100-61440	15	94
	16	100
129100-61650	15	96
	16	102
129100-61930	16	108
129102-53000	17	7
129108-51100	13	16
	14	15 -1
		110
129116-61051	15	10
129120-77501	6	11
129129-77010	22	1
129129-77210	22	6
129129-77220	22	7
129129-77230	22	8
129129-77240	22	9
129129-77250	22	10
129129-77260	22	21
129129-77270	22	22
129129-77280	22	23
129129-77290	22	24
129129-77300	22	25
129129-77310	22	27
129129-77320	22	28
129129-77330	22	29
129129-77340	22	30

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129129-77350	22	31
129129-77362	22	32
129129-77380	22	34
129129-77390	22	14
129129-77400	22	17
129129-77410	22	18
129129-77420	22	19
129129-77430	22	20
129129-77460	22	3
129132-44530	12	10
129136-77251	23	28
129150-02450	8	4
129150-03020	4	41
	5	50
129150-03070	4	42
	5	51
129150-03080	4	43
	5	52
129150-03100	2	10
129150-11230	4	32
	5	38
129150-11280	4	30
	5	36
129150-11750	4	34
	5	40
129150-14101	8	7
129150-14200	8	1
129150-21200	9	5
129150-25101	8	10
129150-25301	8	20
129150-25900	8	15
129150-25920	8	13
129150-25930	8	21
129150-25931	8	21 -1
129150-32020	10	14
	26	17
129150-35041	10	18
	26	18
129150-35101	10	26
129150-35111	10	27
	26	19
129150-35151	10	28
129150-35350	10	30
129150-42020	11	14
	26	20
129150-42320	11	11
129150-49080	12	34
129150-49100	12	33
129150-49360	11	32
	26	25

Parts No.	Fig. No.	Ref. No.
129150-49811	11	26
	26	22
129150-59120	17	83
129150-59131	17	38
		86
129150-59580	17	73
129150-77511	6	12
	26	11
129150-91400	2	26
129155-11260	4	28
	5	34
129155-11270	4	29
	5	35
129155-42350	11	19
129155-49800	11	25
129155-51020	13	10
	14	8
129155-51050	13	13
	14	12
129155-51051	13	13 -1
	14	12 -1
129155-51060	13	14
129155-51140	13	21
	14	18
129155-51180	13	23
	14	20
129155-51200	13	25
	14	22
129155-51270	13	32
	14	29
129155-51280	13	33
	14	30
	15	5
	16	4
129155-51320	13	39
	14	37
129155-51340	13	40
	14	39
129155-51370	13	43
	14	43
129155-51380	13	44
	14	44
129155-51390	13	45
	14	45
129155-51400	13	46
	14	46
129155-51410	13	47
	14	47
129155-51420	13	48
	14	48

Parts No.	Fig. No.	Ref. No.
129155-51450	13	49
	14	49
129155-51500	13	54
	14	54
129155-51521	13	55
	14	55
129155-51530	13	56
	14	56
129155-51540	13	57
	14	57
129155-51550	13	58
	14	58
129155-51570	13	61
	14	61
129155-51580	13	62
	14	62
129155-51591	13	63
	14	63
129155-51600	13	64
	14	64
129155-51700	13	83
129155-51701	13	83 -1
	14	83
129155-51710	13	84
129155-51711	13	84 -1
	14	84
129155-51750	13	85
129155-51751	13	85 -1
	14	85
129155-51760	13	86
	14	86
129155-51790	13	87
	14	87
129155-51930	13	89
	14	89
129155-51940	13	90
	14	90
129155-52050	13	106
	14	108
	26	38
129155-61120	15	14
	16	10
129155-61130	15	15
	16	11
129155-61140	15	16
	16	12
129155-61201	15	17
	16	13
129155-61202	15	17 -1
129155-61341	15	23

Parts No.	Fig. No.	Ref. No.
129155-61341	16	23
129155-61350	15	24
	16	24
129155-61360	15	25
	16	25
129155-61430	15	30
	16	29
129155-61450	15	34
	16	33
129155-61460	15	36
	16	34
129155-61470	15	104
129155-61480	15	37
	16	35
129155-61830	15	71
	16	79
129155-61950	15	73
	16	81
129156-51910	13	88
	14	88
129171-51040	14	9
129208-51060	14	13
129208-54500	14	101
129209-61370	15	74 -1
	16	97 -1
		98
129209-61930	15	103 -1
	16	108 -1
		109
129209-61940	16	115
		119
129209-61970	15	109
	16	110
		122
129210-59040	18	14
129210-59130	17	87
	18	17
129211-42290	11	17
129211-44940	12	50
129350-49530	11	23
129400-01520	2	5
129400-92420	26	39
129403-42380	11	18
129411-51200	13	17
129412-61500	15	44
129418-12530	6	19
		29
129477-61710	15	101
	16	105
129477-61720	15	99

Parts No. Index

Parts No.	Fig. No.	Ref. No.
129486-01670	3	24
129486-42050	11	14 -1
	26	20 -1
129486-61200	16	13 -1
	14	
129486-61201	16	13 -2
		14 -1
129486-61501	15	44 -1
	16	43
129486-61540	15	62 -1
		63 -1
	16	69 -1
		70
129500-53050	17	5
129500-61650	15	97
	16	103
129500-61700	15	100
129550-21650	9	10
129555-59510	18	16
129573-51330	14	36
129573-51340	14	38
129573-51370	14	42
129608-12501	6	14
129608-12511	6	15
129608-12560	6	7
129608-91131	25	37
129608-91132	25	37 -1
129608-91140	25	34
129608-91151	25	35
129609-53100	17	8 -1
129612-01600	3	3
129612-77260	23	30
129612-77700	23	22
129612-77710	23	23
129612-77730	23	25
129612-77740	23	26
129612-77750	23	27
129618-61200	16	15
129619-12210	6	5
129698-77010	21	1
129698-77020	21	2
129698-77100	21	3
129698-77110	21	4
129698-77120	21	5
129698-77130	21	7
129698-77140	21	6
129698-77150	21	8
129698-77161	21	9
129698-77170	21	10
129698-77180	21	17

Parts No.	Fig. No.	Ref. No.
129698-77190	21	18
129698-77200	21	19
129698-77210	21	20
129698-77220	21	21
129698-77230	21	22
129698-77240	21	15
129698-77250	21	16
129698-77260	21	11
129698-77270	21	13
129698-77280	21	14
129792-22400	9	38
129795-01800	2	4
		33
129795-01950	2	9
129795-02411	1	20
129795-21661	9	11
129795-49551	11	24
	26	21
129900-07900	4	2
	5	5
144626-91560	10	40
158552-61900	15	83 -1
	16	89 -1
170038-91310	25	59
170064-67210	19	23
170121-91100	25	8
170122-77330	23	31
170122-77349	23	33
171010-77850	25	13
171048-67010	19	8
171048-67130	19	17
171048-67140	19	18
171048-89120	24	3
171051-01921	1	6
171080-91100	25	18
171080-91101	25	18 -1
171082-91100	25	30
171085-67100	19	14
171085-67110	19	15
171085-67120	19	16
171090-91010	25	16
171102-66080	19	9
171301-12701	6	21
171301-21580	9	22
171301-21590	9	18
171301-21650	9	9
171301-49010	12	4
171301-49020	12	5
171350-03090	4	1
	5	1

Parts No.	Fig. No.	Ref. No.
171353-01520	2	30
171353-01580	2	31
171353-26000	8	22
171353-26081	8	29
	26	5
171353-26200	8	24
171353-61700	15	98
	16	104
171375-39601	10	39
171420-01600	3	4
171420-34820	10	41
171488-61200	15	18
171488-61440	15	95
	16	101
174307-51170	13	22
	14	19
174307-51560	13	60
	14	60
174307-51700	15	45
	16	44
194155-52160	25	56
194180-51640	25	47
194215-52110	25	51
22117-040000	15	75
	16	82
22117-050000	25	39
22117-060000	19	24
22137-080000	12	16
	16	-1
	56	
22137-100000	19	25
22190-060002	15	77
22190-060003	15	76
	16	83
22190-080002	2	11
		22
	10	44
		45
	26	24
22190-080003	2	35
		38
	26	33
22190-100002	10	46
	15	78
	16	84
	26	23
22190-120002	15	79
	16	85
	17	82
	18	20

Parts No.	Fig. No.	Ref. No.
22190-120002	26	26
22190-160002	13	99
	14	99
22190-220002	3	11
		17
	26	34
22217-050000	13	100
	14	100
	25	40
22217-060000	13	91
	14	91
22217-080000	25	41
22217-100000	12	17
	19	26
22217-120000	8	16
	14	103
	24	11
22272-000050	19	27
22287-120000	15	80
	16	86
22351-020006	19	19
22351-040010	9	8
22351-050010	13	92
	14	92
22351-060012	4	23
	5	29
22372-040000	15	81
	16	87
22411-200150	19	20
22512-070140	8	8
	9	6
22512-100700	24	5
23000-060000	6	8
23010-038000	12	6
23061-070230	12	30
23414-120016	15	110
	16	111
		123
23871-030000	5	17
	11	12
23876-010000	1	7
23876-030000	5	17 -1
	11	12 -1
23887-100002	15	82
	16	88
24101-063034	13	93
	14	93
24104-062054	9	58
24105-060064	8	27
24151-222090	24	6

Parts No. Index

Parts No.	Fig. No.	Ref. No.
24311-000120	4	51
	5	60
	26	28
24311-000150	16	117
		121
24311-000160	2	13
	10	31
	26	29
24311-000320	2	14
	4	66
	5	56
	26	30
24311-240100	18	4
24321-000850	8	30
	26	37
24341-000160	13	94
	14	94
24341-000240	2	25
		28
	26	31
	15	83
24341-000280	16	89
	4	48
24341-000500	5	57
	26	32
24421-456209	24	7
24421-557209	24	8
24754-320020	24	9
25132-003700	11	35 -1
25132-003800	11	35
26014-060252	11	22
26014-080162	12	12
26014-080302	7	33
26014-080702	18	11
26022-050102	13	95
26022-050122	13	95 -1
	14	95
26022-060162	13	96
	14	96
26033-060202	25	42
26106-060102	15	84
		85
		86
	16	90
		91
		92
	19	28
	25	24
26106-060142	15	87
	16	93

Parts No.	Fig. No.	Ref. No.
26106-060162	2	29
26106-060202	15	88
	16	94
26106-060402	7	22
26106-080122	2	15
	7	34
	12	18
	25	38
	7	35
26106-080142	8	18
	12	18 -1
26106-080162	2	16
		23
		36
		39
	3	18
	4	3
		49
	5	6
		58
	12	19
		46
	19	30
	25	43
26106-080182	6	9
		10
26106-080202	2	17
	10	32
	12	20
		57
	24	10
26106-080222	9	59
	11	27
26106-080252	4	36
	5	45
	6	4
	12	21
26106-080352	3	25
	6	13
	10	25
	11	15
26106-080452	2	18
	3	19
	8	14
26106-080502	4	37
	5	46
	12	54
26106-080552	2	19
	7	17
	11	16

Parts No.	Fig. No.	Ref. No.
26106-080602	7	3
26106-100122	25	50
26106-100202	12	3
26106-100222	24	12
26106-100452	8	31
26116-050302	13	97
	14	97
	19	21
26116-120252	20	1
	21	24
	22	35
	3	6
26206-100252	3	7
26206-100302	12	22
26206-120302	24	13
26206-120352	4	10
26216-060302	5	18
26216-080602	7	6
26226-080182	4	35
	5	41
26306-080002	2	21 -1
	7	5 -1
		20 -1
		23 -1
	12	23
	25	44 -1
26347-040002	7	18
26347-060002	7	19
26366-060002	4	38
	5	47
26366-080002	2	21
	7	5
		20
		23
	12	23 -1
		55
		55 -1
	15	93
	16	99
	25	44
26450-060252	10	15
26450-080282	8	32
26557-040352	7	21
26657-100002	19	29
26687-120002	15	103
26716-050002	25	45
26716-060002	13	98
	14	98
26716-100002	12	24
26716-120002	8	17

Parts No.	Fig. No.	Ref. No.
26716-120002	14	104
26736-120002	15	90 A
	16	96 A
26756-050002	19	3
26756-060002	15	89
	16	95
		97
26756-080002	25	46
26756-100002	12	25
26776-120002	15	90
		90 -1
	16	96
		96 -1
26921-050122	19	22
27241-120000	1	9
27241-220000	5	19
27241-300000	1	10
27241-400000	4	11
	5	20
27310-070001	4	16
	5	25
28110-100120	26	44
28110-140170	26	45
28110-190220	26	46
28210-000140	26	47
719810-01500	2	1
719810-01650	3	21
719810-11520	4	39
	5	48
719810-11521	4	39 -1
	5	48 -1
719810-11650	5	37
719810-11660	4	31
719810-23100	9	39
719818-11700	5	7
719818-53100	17	2
719822-01560	1	1
719822-51310	13	4
719822-51370	13	1
719822-51400	13	3
719822-51460	14	1
		2 -1
719822-51469	14	2
719822-92620	26	1
719822-92630	26	2
719822-92640	26	3
719908-53100	17	4
719989-51310	13	2
719989-51461	14	3
721400-92102	26	41

Parts No. Index

Parts No.	Fig. No.	Ref. No.
729102-53100	17	3
729500-53200	17	1
729609-53200	17	4 -1
933110-00100	25	25
933110-00301	25	27
977770-01212	2	40
	3	26
	26	40
X0280210230	20	5
	22	11
X0280210331	20	71
X0280335360	20	82
X0280626010	20	60
X0280630011	20	3
X0280992761	20	4
X0280996180	20	51
X0281003751	20	13
X0281007680	20	50
X0282001531	20	14
X0282005871	20	54
X0283009160	20	55
X0283060061	20	17
	22	2
X0283270140	20	6
	22	12
X0283711420	20	18
X0283712350	20	7
X0283810040	20	8
X0284004910	20	19
X0284105010	20	61
X0284525010	20	75
X0285005770	20	58
X0285040631	20	20
X0285100460	20	21
X0285105190	20	52
X0285205030	20	53
X0286105050	20	63
X0286305010	20	65
X0286355010	20	66
X0287405140	20	67
X0534006460	20	23
X0534007800	20	68
X0534040320	20	24
X0534490120	20	25
		26
X0534490230	20	27
		28
X0535050620	20	29
X0535130241	20	30
X0535130320	20	31

Parts No.	Fig. No.	Ref. No.
X0536600401	20	32
X1289510130	20	83
X2114535200	21	12
X2284008090	20	56
X2411365340	12	9
X9055715000	20	69
X9151005141	20	33
X9490065670	20	81
X9490071810	20	44
X9490071970	20	45
X9490138090	20	73
X9490138100	20	74
X9490138110	20	72
X9490170900	20	34
		35
X9490423520	20	78
X9490441303	20	36
X9490441312	20	37
X9490471500	20	46
X9490502820	20	38
		39
X9490560750	20	77
X9490561370	20	47
	22	4
X9490562360	20	76
X9490721080	20	9
X9490721360	20	70
X9491001360	20	15
X9491001860	20	16
X9491034320	20	64
X9491034330	20	62
X9491040990	20	59
X9491050100	20	57
X9491200240	20	48
	22	5
X9491402100	20	40
		41
X9491703371	20	10
	22	13
X9491703380	20	49
X9491704260	20	11
X9491730461	20	22
	22	26

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

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