

0CV10-M35602EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNA72E-UAS engine manufactured since September, 1988.
2. Each illustration corresponds to the parts list on the following page.
3. 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.
4.

Pub.No.000Y00R3560	First Published : September, 1988.
Pub.No.000Y00V3561	First Revised : November, 1990.
Pub.No.000Y00V3562	Second Revised : May, 1992.

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)									
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)
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
		(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
3TNA72E-UAS			
1.	CYLINDER BLOCK		
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3.	FLYWHEEL HOUSING & L.O.SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION & EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB.OIL SYSTEM		
9.	COOLING WATER SYSTEM		
10.	FUEL INJECTION PUMP		
11.	FUEL LINE		
12.	GOVERNOR		
13.	STARTING MOTOR		
14.	GENERATOR		
15.	ELECTRIC PART		
16.	GASKET SET & TOOL(OPTIONAL)		

Fig. 1 CYLINDER BLOCK

This technical drawing shows an exploded view of a cylinder block assembly. The central component is the cylinder block (1), which features four large circular bores. Above it is a cylinder head gasket (14) with corresponding circular patterns. Various bolts and nuts are shown in their respective assembly positions: a long bolt (13) for the gasket, a nut (2) for the block, and a bolt (4) for the head. On the sides, there are nuts (6) and bolts (10, 11, 12). The front of the block shows a timing gear mechanism with a gear (15) and a bracket (3). At the bottom, two crankshaft main bearings (8) are shown, each with a bearing cap (9) and a connecting rod (7). Callouts include 'X1A-X1B' for the side nuts, 'X8A (X16A)' and 'X8B (X16B)' for the bearing halves, and 'X9A' and 'X9B' for the bearing cap halves. A bracket (16) groups the bearing halves.

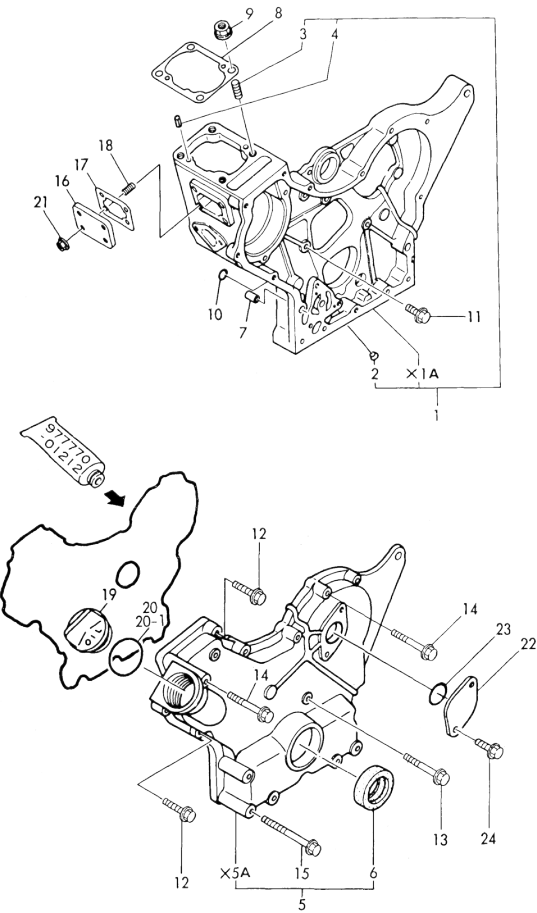
Remarks
(1)UNDER-SIZED(U.S=0.25) PART.

				(A)=3TNA72E-UAS	(D)=							
				(B)=	(E)=							
				(C)=	(F)=							
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	719610-01560	BLOCK ASSY, CYLINDER	1								
2	3	119600-01050	PLUG, PT1/4	1								
3	3	23871-010000	PLUG, R01	1								
4	3	27231-450000	PLUG 45	1								
5	3	27241-120000	PLUG, 12	1								
6	3	27241-300000	PLUG 30	6								
7	2	119620-02020	BOLT, METAL CAP	8								
8	2	719620-02800	BEARING, MAIN	4								
9	2	719620-02930	BEARING, THRUST	2								
10	2	119620-02410	BUSH, CAMSHAFT	1								
11	1	119620-02450	BEARING, THRUST	1								
12	1	26106-060122	BOLT, M6X 12 PLATED	2								
13	1	119620-01200	BOLT, HEAD	14								
14	1	119610-01340	GASKET, HEAD	1								
15	1	121550-49111	JOINT, PT1/4	1								
16	1	719620-02870	BEARING, 0.25 US	4							1	

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2. GEAR HOUSING

Fig.2 GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119610-01490	CASE ASSY, GEAR	1							
2	2	119660-01510	PLUG, 10X14	1							
3	2	121450-01560	STUD, M8X22	4							
4	2	22351-040010	PIN, SPRING 4.0X10	2							
5	1	119610-01590	COVER ASSY,GEAR CASE	1						W	
(A=E/# 45368)											
6	2	119620-01800	SEAL, OIL	1							
7	1	119660-01911	PIPE, KNOCK	4							
8	1	119620-01950	SHIM SET, ADJUSTING	1							
9	1	194990-22050	NUT, M8	4							
10	1	24311-000120	O-RING, 1AP12.0	2							
11	1	26106-060162	BOLT, M6X 16 PLATED	7							
12	1	26106-060302	BOLT, M6X 30 PLATED	8							
13	1	26106-060602	BOLT, M6X 60 PLATED	1							
14	1	26106-060602	BOLT, M6X 60 PLATED	3							
15	1	26106-060802	BOLT, M6X 80 PLATED	6							
16	1	119660-01551	COVER	1							
17	1	119660-01561	GASKET	1							
17-1	1	119660-01562	GASKET	1							R
(A=E/# 37539)											
18	1	119660-01570	STUD, M6X12	4							
19	1	124160-01751	COVER, FILLER	1							
20	1	121420-01760	O-RING	1							
20-1	1	24311-000320	O-RING, 1AP32.0	1							N
(A=FROM IST)											
21	1	26366-060002	NUT, M6	4							
22	1	121023-01550	COVER	1							
23	1	24341-000260	O-RING, 1AS26.0	1							
23-1	1	24341-000240	O-RING, 1AS24.0	1							R
(A=E/# 23415)											
24	1	26106-060182	BOLT, M6X 18 PLATED	2							

Exploded view diagram of a mechanical assembly. The main housing (1) is shown with various internal components. The assembly sequence is indicated by arrows and numbered parts:

- Part 1: Main housing.
- Part 2: Filter or screen.
- Part 3: Valve or plug.
- Part 4: Pump or motor unit.
- Part 5: Seal or gasket.
- Part 6: Bolt or screw.
- Part 7: Flange or plate.
- Part 8: Gasket or seal.
- Part 8A: Flange or plate (variant).
- Part 9: Bolt or screw.
- Part 10: Flange or plate.
- Part 11: Bolt or screw.
- Part 12: Bolt or screw.
- Part 13: Bolt or screw.
- Part 14: Bolt or screw.
- Part 15: Bolt or screw.

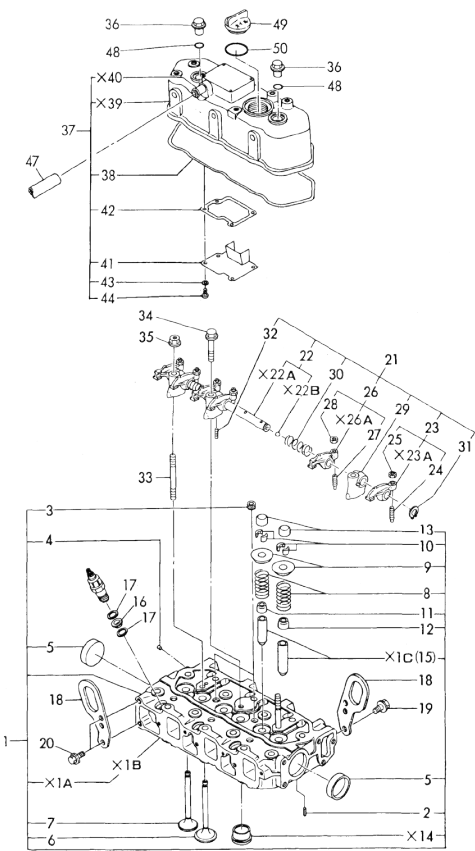
Arrows indicate the assembly sequence: 2 → 1, 3 → 1, 4 → 1, 5 → 1, 6 → 1, 7 → 1, 8 → 1, 8A → 1, 9 → 1, 10 → 1, 11 → 1, 12 → 1, 13 → 1, 14 → 1, 15 → 1.

Note: X1A

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

Fig.4. CYLINDER HEAD & BONNET

Fig.4 CYLINDER HEAD & BONNET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719660-11700	HEAD ASSY, CYLINDER	1							
2	2	22351-060012	PIN, SPRING 6.0X12	2							
3	2	121850-11860	PLUG, PT1/4	2							
4	2	27221-050080	PLUG, 5X 8	1							
5	2	27241-400000	PLUG, 40	2							
6	2	119620-11100	VALVE, INTAKE	3							
7	2	119620-11110	VALVE, EXHAUST	3							
8	2	119620-11120	SPRING, VALVE	6							
9	2	119620-11180	RETAINER, SPRING	6							
10	2	101158-11190	COTTER	6							
10-1	2	27310-070001	COTTER, 7	6							N
(A=EXXXXX)											
11	2	124950-11340	SEAL, VALVE STEM	3							
12	2	124160-11340	SEAL, VALVE STEM	3							
13	2	104211-11370	CAP, VALVE	6							
15	1	119620-11801	GUIDE, VALVE	6							1
16	1	119600-11450	PROTECTOR, NOZZLE	3							
17	1	119600-11460	GASKET, NOZZLE	6							
18	1	119260-07900	LIFTER	2							
19	1	26106-080142	BOLT, M8X 14 PLATED	1							
20	1	26106-080142	BOLT, M8X 14 PLATED	2							
21	1	119620-11200	SUPPORT ASSY, ARM	1							
22	2	119620-11240	SHAFT ASSY, ROCKER	1							
23	2	719620-11650	ARM ASSY, ROCKER	3							
24	3	105010-11230	SCREW, VALVE ADJUST	3							
25	3	26756-060002	NUT, LOCK M6	3							
26	2	719620-11660	ARM ASSY, ROCKER	3							
27	3	105010-11230	SCREW, VALVE ADJUST	3							
28	3	26756-060002	NUT, LOCK M6	3							
29	2	119620-11260	SUPPORT, ROCKER ARM	3							
30	2	119620-11280	SPRING	2							
31	2	22242-000120	RING, 12	2							
32	2	26979-050162	SCREW, M5X16	1							
33	1	119620-11350	STUD	2							
34	1	26106-080452	BOLT, M8X 45 PLATED	1							
35	1	26366-080002	NUT, M8	2							
36	1	124160-11360	KNOB	2							
37	1	719620-11520	BONNET ASSY, HEAD	1							
37-1	1	719620-11521	BONNET ASSY, HEAD	1							N
(A=FROM IST)											
37-2	1	119620-11330	BONNET ASSY, HEAD	1							N
(A=E/# 45368)											
38	2	119620-11310	GASKET, BONNET	1							
41	2	119620-03020	PLATE, SHELTER	1							
42	2	119620-03030	GASKET	1							
42-1	2	119620-03031	GASKET	1							N
(A=E/# 37539)											
43	2	22217-050000	WASHER, SPRING 5	4							
44	2	26557-050102	SCREW, M5X10	4							
46-1	2	24311-000320	O-RING, 1AP32.0	1							N
(A=FROM IST)											

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

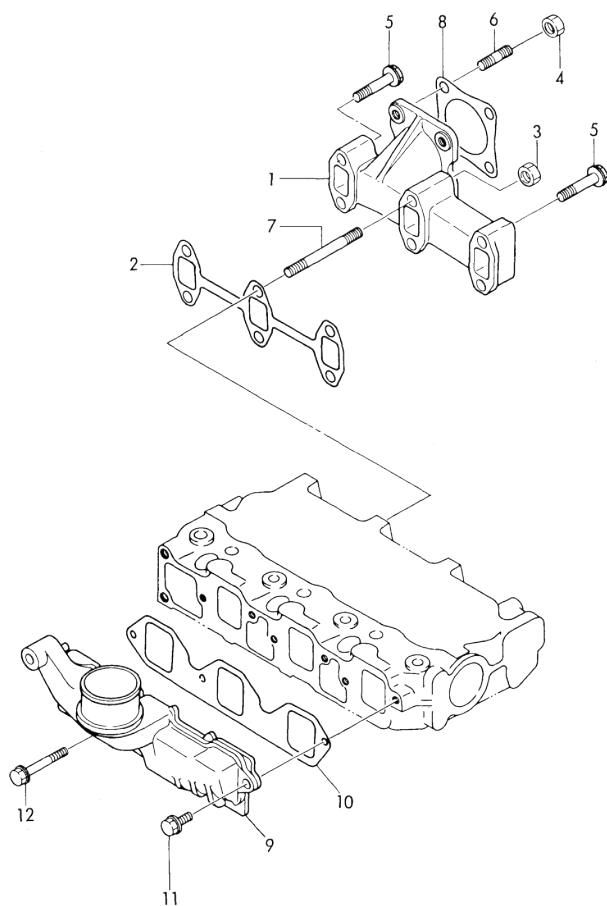
This exploded view diagram illustrates the assembly of a cylinder head and bonnet. The main components are shown in their relative positions, with callouts 1 through 50 identifying individual parts. Key features include:

- Cylinder Head (1):** The central component with multiple valve seats and ports.
- Bonnet (2):** The upper cover that seals the cylinder head.
- Valve Train Components:** Includes valves (e.g., 17, 18), springs (e.g., 8, 9, 10, 11, 12), retainers (e.g., 13, 14), and guides (e.g., 15, 16).
- Fasteners:** Various bolts, nuts, and washers (e.g., 3, 4, 5, 6, 7, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50) used to secure the assembly.
- Seals and Gaskets:** Components like 3, 4, 5, and 6 are likely seals or gaskets for the bonnet and valve seats.

No.	Lev.	Parts No.	Description	(A)= (B)= (C)=	(D)= (E)= (F)=	Q'ty I R
47	1	23065-120500	PIPE, 12X 500	1		
48	1	24311-000120	O-RING, 1AP12.0	2		
49	1	124160-01751	COVER, FILLER	1		
50	1	121420-01760	O-RING	1		

N:Old $\frac{YES}{NO}$ New. Q:Old $\frac{YES}{YES}$ New. R:Old $\frac{YES}{YES}$ New. S:Old $\frac{YES}{NO}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change.
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Fig. 5 SUCTION & EXHAUST MANIFOLD



				(A)=3TNA72E-UAS	(D)=		
				(B)=	(E)=		
				(C)=	(F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	Qty	(C) (D) (E) (F)
1	1	119600-13100	MANIFOLD, EXHAUST	1			
2	1	119620-13110	GASKET	1			
3	1	194990-22050	NUT, M8	2			
4	1	194990-22050	NUT, M8	4			
5	1	26106-080402	BOLT, M8X 40 PLATED	4			
6	1	26216-080222	STUD, M8X 22	4			
7	1	26216-080552	STUD, M8X 55	2			
8	1	121000-13200	GASKET, SILENCER	1			
9	1	119621-12100	MANIFOLD, AIR INTAKE	1			
10	1	119660-12111	GASKET, MANIFOLD	1			
11	1	26106-060162	BOLT, M6X 16 PLATED	2			
12	1	26106-060452	BOLT, M6X 45 PLATED	1			

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

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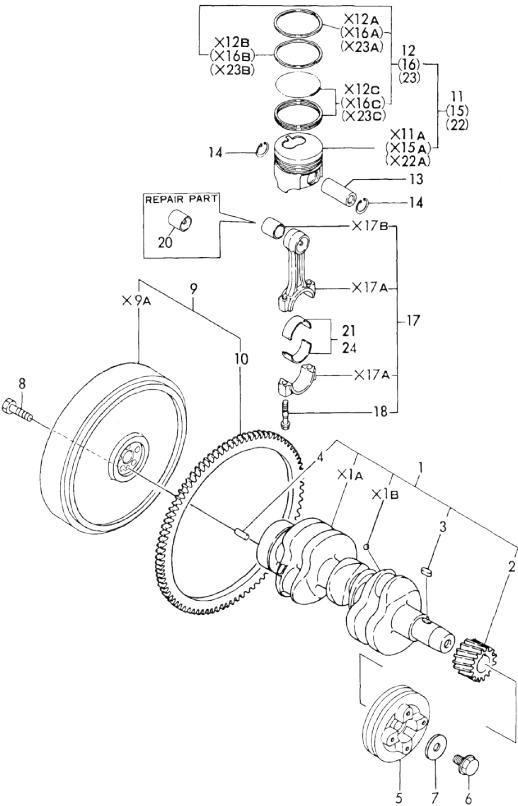
Exploded view diagram of a mechanical assembly, likely a pump or motor, showing various components and their assembly sequence. The diagram includes a main housing (1) with internal cavities, a shaft (2) with gears (3, 4), a piston (5), a valve (6), and a pump body (7). A detailed view of the pump body (7) shows internal components like the piston (8), valve (9), and gears (10, 11). A 'REPAIR PART' box highlights a specific component (16).

Remarks
(1)REPAIR PART

[illegible]

Fig.7. CRANKSHAFT & PISTON

Fig.7 CRANKSHAFT & PISTON

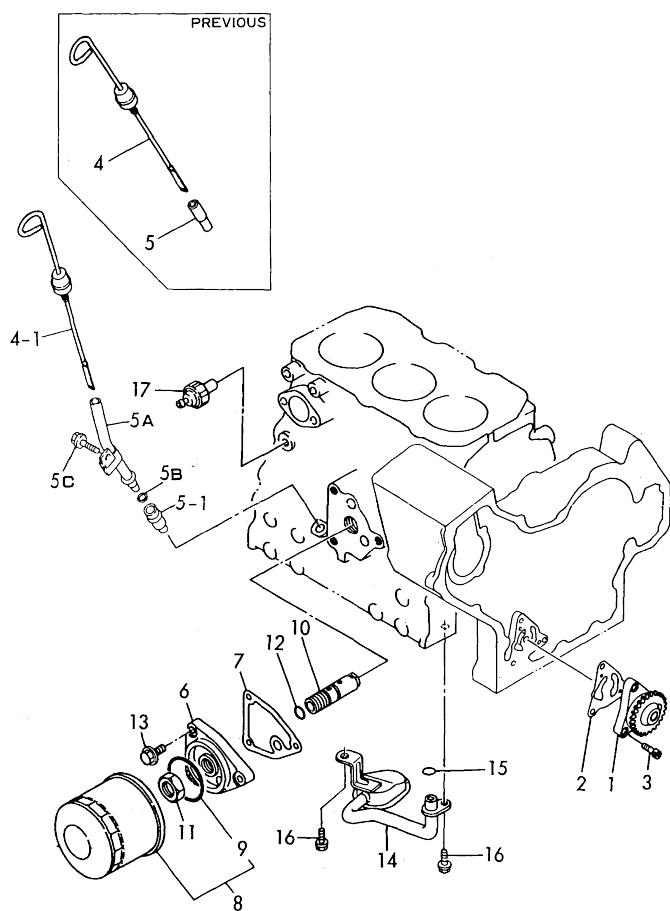


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719660-21701	CRANKSHAFT ASSY	1							
1-1	1	719660-21700	CRANKSHAFT ASSY	1						N	
(A=EXXX)											
2	2	119660-21201	GEAR, CRANKSHAFT	1							
3	2	22512-040120	KEY, 4X 12	1							
4	2	129100-01580	PIN, M8X16	1							
5	1	119660-21651	V-PULLEY	1							
6	1	119621-21680	BOLT, FLANGE 12X1.25	1							
7	1	119620-21941	WASHER	1							
8	1	121111-21501	BOLT, FLYWHEEL	5							
9	1	119600-21580	FLYWHEEL ASSY	1							
10	2	119865-21600	GEAR, RING	1							
11	1	119620-22090	PISTON ASSY	3							
12	2	719620-22501	RING SET, PISTON	3							
12-1	2	719620-22500	RING SET, PISTON	3						R	
(A=FROM 1ST)											
13	1	119620-22300	PIN, PISTON	3							
14	1	22252-000210	RING, 21	6							
15	1	719620-22820	PISTON ASSY, 0.25 OS	3							1
15-1	1	119620-22900	PISTON ASSY, 0.25 OS	3						N	1
(A=FORM 1ST)											
16	2	719620-22540	RING SET, 0.25 OS	3							1
16-1	2	119620-22950	RING SET, 0.25 OS	3						N	1
(A=FORM 1ST)											
17	1	719620-23100	ROD ASSY, CONNECTING	3							
18	2	105225-23200	BOLT, CONNECTING ROD	6							
20	1	119620-23910	BEARING, PISTON PIN	3							2
21	1	719620-23610	BEARING ASSY, 0.25	3							3
22	1	119620-22920	PISTON ASSY, 0.50 OS	3							4
23	2	119620-22970	RING SET, 0.50 OS	3							4
24	1	719620-23600	BEARING, CRANK PIN	3							

Remarks
(1)OVER-SIZED(O.S=0.25) PART
(2)REPAIR PART
(3)UNDER-SIZED(U.S=0.25) PART.
(4)UNDER-SIZED(U.S=0.5) PART.

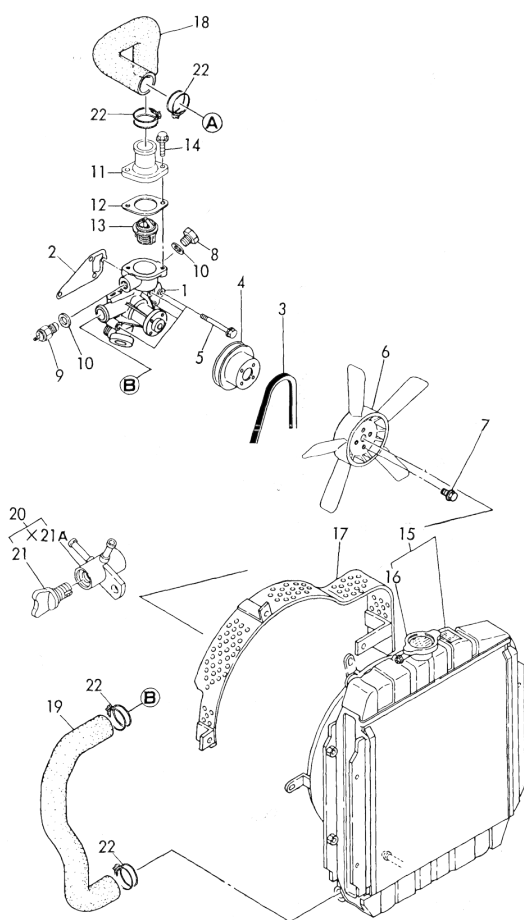
Fig.8. LUB.OIL SYSTEM

Fig. 8 LUB. OIL SYSTEM



				(A)=3TNA72E-UAS (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	Qty (C)	(D)	(E)	(F)	I	R
1	1	119660-32001	PUMP ASSY, OIL	1							
2	1	119660-32020	GASKET, PUMP	1							
3	1	26450-060202	BOLT, M6X 20	3							
4	1	119631-34800	DIPSTICK, OIL	1							
4-1	1	119689-34800	DIPSTICK, OIL	1						S	
(A=E# 27172)											
5	1	121520-34810	GUIDE, DIPSTICK	1							
5-1	1	119260-34810	GUIDE, DIPSTICK	1						S	
(A=E# 27172)											
5A	1	119621-34810	GUIDE, DIPSTICK	1							W
(A=E# 27172)											
5B	1	24311-240100	O-RING, 1AP10A	1							W
(A=E# 27172)											
5C	1	26106-060102	BOLT, M6X 10 PLATED	1							W
(A=E# 27172)											
6	1	119660-35102	BRACKET, FILTER	1							
7	1	119660-35112	GASKET	1							
7-1	1	119660-35113	GASKET	1							N
(A=E# 37539)											
8	1	119660-35150	FILTER, LUB. OIL	1							
9	2	124450-35110	O-RING	1							
10	1	119660-35300	VALVE ASSY, CONTROL	1							
11	1	129150-35350	NUT	1							
12	1	24311-000160	O-RING, 1AP16.0	1							
13	1	26106-080202	BOLT, M8X 20 PLATED	3							
14	1	119600-35081	PIPE ASSY, OIL INLET	1							
15	1	24311-000120	O-RING, 1AP12.0	1							
16	1	26106-060102	BOLT, M6X 10 PLATED	2							
17	1	124160-39450	SWITCH, 0.5KG	1							

Fig. 9 COOLING WATER SYSTEM

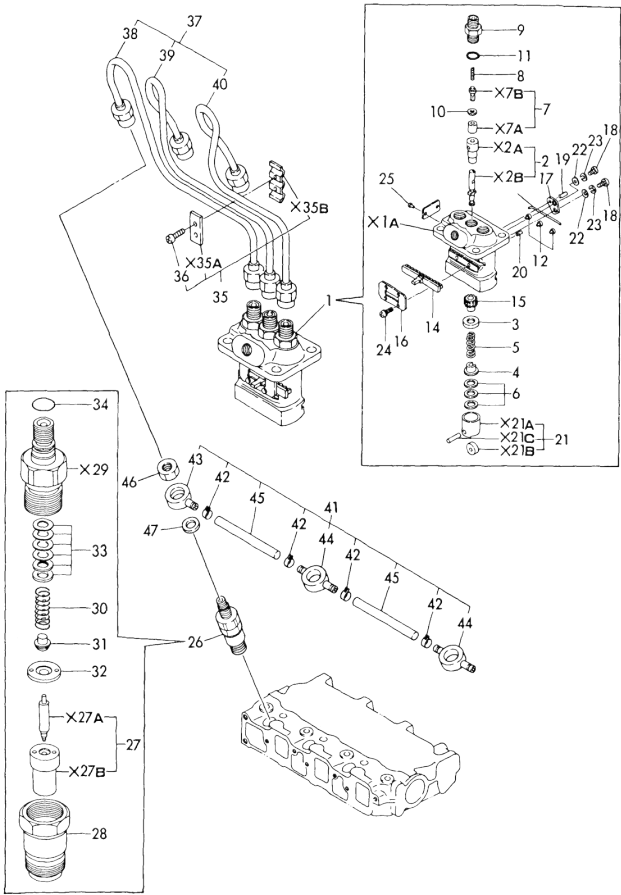


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-42003	PUMP ASSY, WATER	1							
1-1	1	119660-42004 (A=E# 37539)	PUMP ASSY, WATER								N
2	1	119620-42020	GASKET, WATER PUMP	1							
3	1	119656-42290	V-BELT, FM35.5	1							
4	1	119660-42350	V-PULLEY	1							
5	1	26106-080452	BOLT, M8X 45 PLATED	4							
6	1	124700-44740 (A=E# 27172)	FAN, COOLING 5X310	1							Z
7	1	26014-060162	BOLT, M6X 16	4							
8	1	121450-42450	PLUG, M16	1							
9	1	121250-44901	SWITCH, 110	1							
10	1	124465-44950	GASKET, 16	2							
11	1	129350-49530	COVER, THERMOSTAT	1							
12	1	129350-49540	GASKET	1							
12-1	1	129350-49541 (A=E# 37539)	GASKET	1							N
13	1	129350-49800	THERMOSTAT, 71	1							
14	1	26106-080202	BOLT, M8X 20 PLATED	2							
15	1	119600-44500	RADIATOR	1							
15-1	1	171460-44500 (A=E# 27172)	RADIATOR	1							S
16	2	123682-44210	CAP, RADIATOR	1							
17	1	171301-44560 (A=E# 27172)	PROTECTOR, FAN	1							Z
18	1	119688-49010 (A=E# 27172)	PIPE, WATER	1							Z
18-1	1	171420-49010 (A=E# 27172)	PIPE, WATER	1							W
19	1	119280-49020 (A=E# 27172)	PIPE, WATER	1							Z
19-1	1	171420-49020 (A=E# 27172)	PIPE, WATER	1							W
20	1	129150-49100	COCK ASSY, 3-WAY	1							
21	2	129150-49080	COCK, DRAIN	1							
22	1	23010-038000	CLAMP, 3/8	4							

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

Fig.10. FUEL INJECTION PUMP

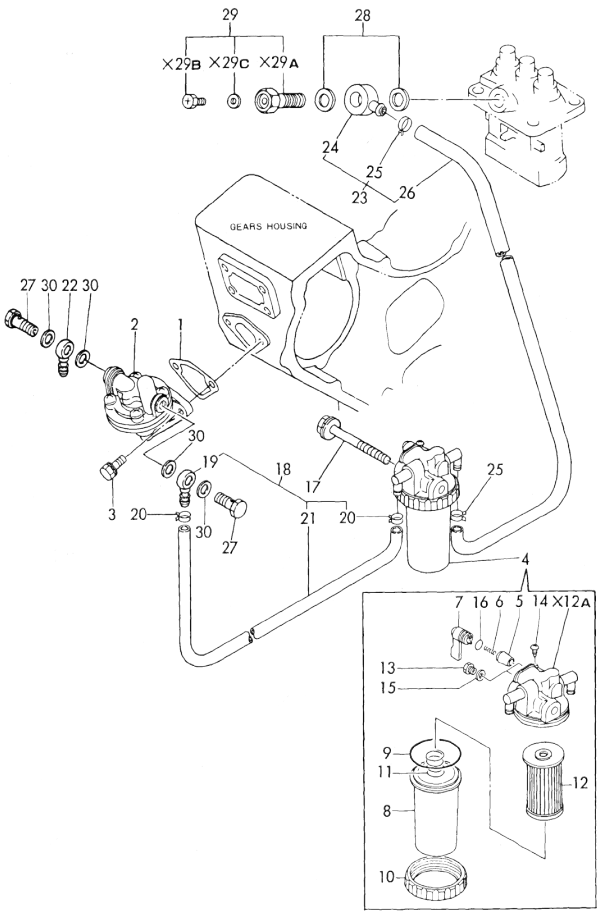
Fig.10 FUEL INJECTION PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719621-51100	PUMP ASSY, INJECTION	1							
1-1	1	719621-51700	PUMP ASSY, INJECTION	1							N
(A=FROM 1ST)											
2	2	119620-51101	PLUNGER ASSY	3							
3	2	119620-51170	RETAINER, SPRING A	3							
4	2	119620-51180	RETAINER, SPRING B	3							
5	2	119620-51190	SPRING, PLUNGER	3							
6	2	119620-51250	SHIM SET	3							
7	2	119620-51300	VALVE ASSY, DELIVERY	3							
8	2	105546-51330	SPRING, DELIVERY	3							
9	2	119620-51340	HOLDER, DELIVERY	3							
10	2	119620-51350	GASKET	3							
11	2	119620-51370	O-RING	3							
12	2	119620-51450	PIECE	3							
13	2	119620-51461	PIN	1							
14	2	119660-51500	RACK, CONTROL	1							
15	2	119620-51510	PINION	3							
16	2	119660-51530	RETAINER, RACK	1							
17	2	119620-51650	PLATE	2							
18	2	119620-51660	SCREW	2							
19	2	119620-51670	PIN	2							
20	2	119620-51680	PIN	1							
21	2	119620-51700	TAPPET ASSY	3							
22	2	22137-040000	WASHER, 4	2							
23	2	22217-040000	WASHER, SPRING 4	2							
24	2	26022-040082	SCREW, M4X 8	4							
25	2	26587-040102	SCREW, M4X10	2							
26	1	719620-53100	VALVE ASSY,INJECTION	3							
27	2	119620-53000	VALVE ASSY,INJECTION	3							
28	2	119620-53080	NUT, NOZZLE	3							
30	2	119620-53120	SPRING, NOZZLE	3							
31	2	114250-53130	SEAT, SPRING	3							
32	2	119620-53140	SPACER, VALVE STOP	3							
33	2	114250-53400	SHIM SET	3							
34	2	129155-61830	O-RING, S10	3							
35	1	129150-59120	RETAINER, PIPE	1							
36	2	129150-59130	BOLT, M4X12	2							
37	1	119620-59800	PIPE ASSY, INJECTION	1							
38	2	119620-59811	PIPE ASSY, INJECTION	1							
39	2	119620-59821	PIPE ASSY, INJECTION	1							
40	2	119620-59831	PIPE ASSY, INJECTION	1							
41	1	119620-59540	PIPE ASSY, FUEL	1							
42	2	124066-59100	CLIP, HOSE 8	4							
43	2	119260-59520	JOINT	1							
44	2	119260-59530	JOINT	2							
45	2	105025-59550	PIPE, FUEL RETURN	2							
46	1	119620-59700	NUT, NOZZLE	3							
47	1	23414-140000	GASKET, 14X1.0	3							

Fig.11. FUEL LINE

Fig. 11 FUEL LINE



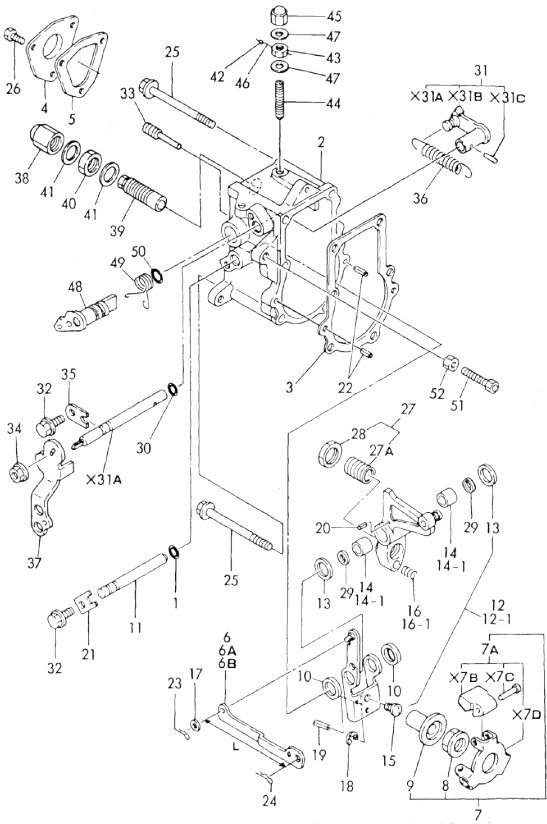
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-01850	GASKET	1							
1-1	1	121520-01851	GASKET	1							N
(A=E# 37539)											
2	1	119600-52021	PUMP ASSY, FUEL FEED	1							
3	1	26014-060202	BOLT, M6X 20	2							
4	1	171059-55600	FILTER ASSY, FUEL	1							
5	2	104200-55321	VALVE, TAPER	1							
6	2	104200-55330	SPRING, VALVE	1							
7	2	104200-55341	HANDLE	1							
8	2	121254-55510	COVER	1							
9	2	102103-55520	O-RING	1							
10	2	110250-55610	RING, RETAINING	1							
11	2	121250-55620	SPRING	1							
12	2	124550-55700	FILTER, FUEL L=90	1							
13	2	101720-55750	PLUG, 6	2							
14	2	104200-55750	SCREW, M4	1							
15	2	23418-060000	GASKET, 6X1.0	2							
16	2	24311-240100	O-RING, 1AP10A	1							
17	1	26014-080702	BOLT, M8X 70	1							
18	1	119260-59020	PIPE ASSY, D12XL400	1							
19	2	104264-59030	JOINT, PIPE 8	1							
20	2	124766-59050	CLIP, HOSE 12	2							
21	2	121236-59080	PIPE, FUEL D12X400	1							
22	1	104264-59030	JOINT, PIPE 8	1							
23	1	119225-59040	PIPE ASSY, FUEL	1							
24	2	101304-59020	JOINT, PIPE 12	1							
25	2	124766-59050	CLIP, HOSE 12	2							
26	2	121250-59080	PIPE, FUEL D12X180	1							
27	1	105582-59150	BOLT, PIPE JOINT	2							
28	1	104200-59170	GASKET, 12	2							
29	1	103854-59191	BOLT ASSY, JOINT M12	1							
30	1	23414-080012	GASKET, 8X1.0	4							

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

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Fig.12. GOVERNOR

Fig.12 GOVERNOR

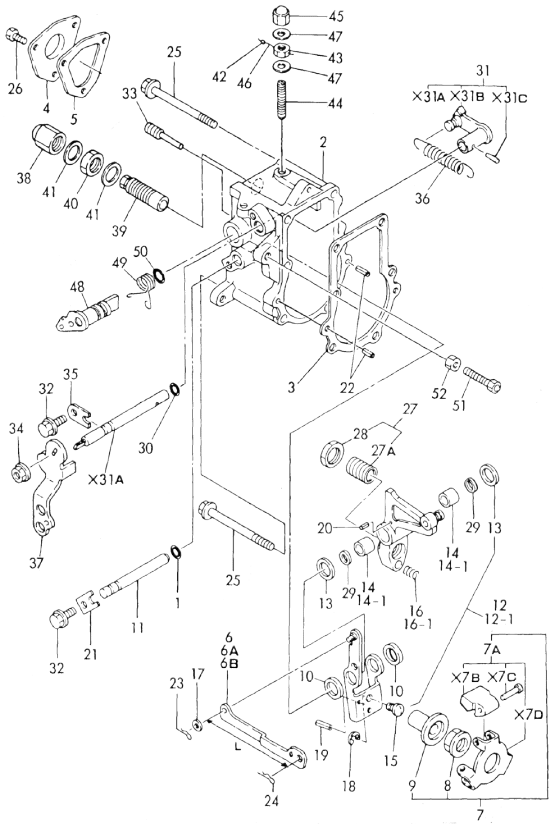


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129155-51280	O-RING, S6	1							
2	1	119660-61013	CASE, GOVERNOR	1							
3	1	119660-61051	GASKET	1							
3-1	1	119660-61052	GASKET	1							N
(A=E# 37539)											
4	1	119660-61060	COVER, GOVERNOR CASE	1							
5	1	119660-61070	GASKET	1							
5-1	1	119660-61071	GASKET	1							N
(A=E# 37539)											
6	1	119660-61121	LINK, NO MARK	1							1
6A	1	119660-61140	LINK, MARK :2	1							W 1
(A=FROM 1ST)											
6B	1	119660-61150	LINK, MARK :3	1							W 1
(A=FROM 1ST)											
7	1	119600-61100	DRIVE ASSY	1							W
(A=EXXX)											
7A	2	119600-61200	WEIGHT ASSY,GOVERNOR	1							
8	2	119660-61300	NUT	1							
9	2	119660-61341	SLEEVE	1							
10	1	129155-61480	SPACER ASSY	2							
11	1	119660-61491	SHAFT	1							
12	1	119600-61500	LEVER ASSY, GOVERNOR	1							
12-1	1	119656-61500	LEVER ASSY, GOVERNOR	1							N
(A=FROM 1ST)											
13	2	174307-51700	SHIM SET	2							
14	2	129155-61530	BUSH	2							
14-1	2	121450-61520	BEARING, NEEDLE 8	2							S
(A=FROM 1ST)											
15	2	119600-61540	SHIFTER	1							
16	2	119600-61650	SPRING, STARTING	1							
16-1	2	119660-61651	SPRING, STARTING	1							S
(A=FROM 1ST)											
17	2	22117-040000	WASHER, 4	2							
17-1	2	22117-040000	WASHER, 4	1							K
(A=FROM 1ST)											
18	2	22272-000040	RING, E- 4	1							
19	2	22351-020004	PIN, SPRING 2.0X 4	1							
20	2	22351-030014	PIN, SPRING 3.0X14	1							
21	1	119660-61901	RETAINER, SHAFT	1							
22	1	22351-040010	PIN, SPRING 4.0X10	2							
23	1	22360-040000	PIN, SNAP 4	1							
24	1	22360-060000	PIN, SNAP 6	1							
25	1	26106-060702	BOLT, M6X 70 PLATED	6							
26	1	26116-050102	BOLT, M5X 10 PLATED	3							
27	1	119600-66720	ANGLEICH ASSY	1							
27A	2	129555-61800	SHIM SET	1							W
(A=FROM 1ST)											
28	2	129155-61590	NUT, LOCK	1							
29	1	119660-61460	SHIM SET	1							
30	1	24341-000070	O-RING, 1AS7.0	1							
31	1	119621-66091	SHAFT ASSY	1							

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.12. GOVERNOR

Fig. **12** GOVERNOR



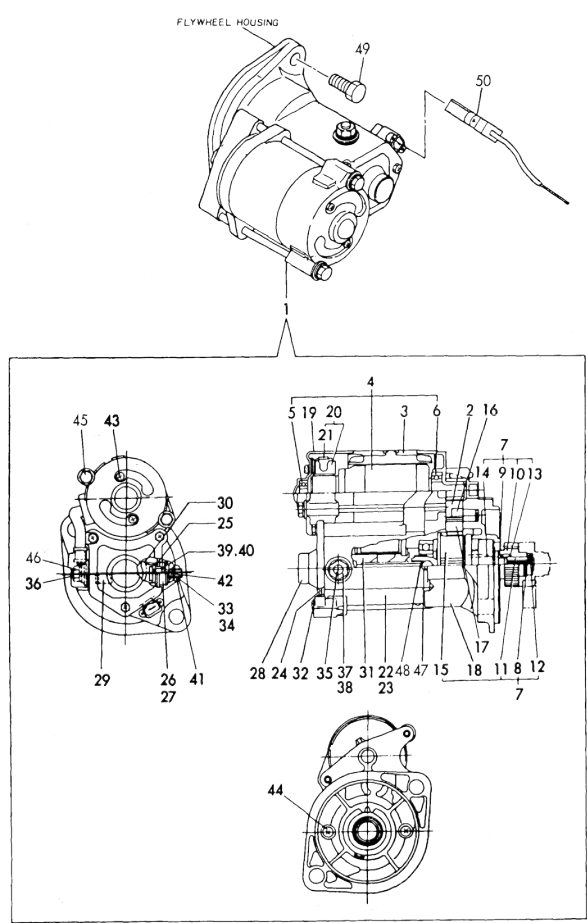
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
32	1	26106-060102	BOLT, M6X 10 PLATED	2							
33	1	124250-03640	SCREW	1							
34	1	194990-22050	NUT, M8	1							
35	1	119600-61900	RETAINER, SHAFT	1							
36	1	119600-66020	SPRING, REGULATOR	1							
37	1	119621-66051	LEVER, REGULATOR	1							
38	1	129100-61930	NUT, CAP	1							
39	1	119600-66530	LIMITER ASSY, FUEL	1							
40	1	124772-66750	NUT, LOCK M12	1							
41	1	43400-500450	SEAL WASHER 12	2							
42	1	135210-61090	LEAD	1							
43	1	124550-66370	NUT, M6	1							
44	1	121575-66830	SCREW	1							
45	1	119600-66840	NUT, CAP	1							
46	1	22451-060000	WIRE, 0.6	1							
47	1	43400-500400	SEAL WASHER 6	2							
48	1	119600-66521	HANDLE, STOP	1							
49	1	119600-66681	SPRING, RETURN	1							
50	1	24311-240100	O-RING, 1AP10A	1							
51	1	26116-060304	BOLT, M6X 30 PLATED	1							
52	1	26756-060002	NUT, LOCK M6	1							

Remarks

(1) SELECTIVE PART :CERTAIN THE SIZE
, THEN PLACE YOUR ORDER.
(ILLUSTRATION)

Fig.13. STARTING MOTOR

Fig. **13** STARTING MOTOR



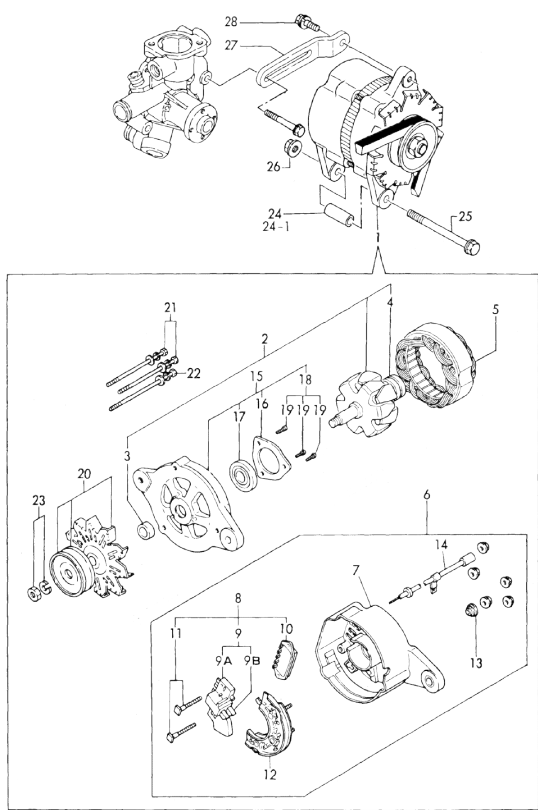
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-77011	STARTER	1							
2	2	X0280630011	RETAINER	1							
3	2	X0281003751	YOKE ASSY	1							
4	2	X0282001531	ARMATURE ASSY	1							
5	3	X9491001360	BEARING	1							
6	3	X9491001860	BALL BEARING	1							
7	2	X0283005050	CLUTCH, STARTER	1							
8	3	X0280210230	NUT	1							
9	3	X0283270140	RETAINER	1							
10	3	X0283715030	PINION, STARTER	1							
11	3	X0283810040	SHAFT	1							
12	3	X9490721080	RING	1							
13	3	X9491703371	SPRING, COIL	1							
14	3	X9491704260	SPRING	1							
15	3	121120-77930	CASE ASSY, STARTER	1							
16	2	X0283060061	ROLLER	5							
17	2	X0283711420	PINION	1							
18	2	X0284004910	HOUSING, STARTER	1							
19	2	X0285040631	FRAME ASSY	1							
20	2	X0285100460	HOLDER ASSY, BRUSH	1							
21	3	X9491730461	SPRING	4							
22	2	X0534006460	SWITCH, MAGNETIC	1							
23	3	X0534040320	GASKET	1							
24	3	X0534490120	BUSH	1							
25	3	X0534490120	BUSH	1							
26	3	X0534490230	BUSH	1							
27	3	X0534490230	BUSH	1							
28	3	X0535050620	COVER	1							
29	3	X0535130241	PLATE (B)	1							
30	3	X0535130320	PLATE (A)	1							
31	3	X0536600401	PLUNGER	1							
32	3	X9151005141	BOLT W/WASHER	3							
33	3	X9490170900	WASHER	1							
34	3	X9490170900	WASHER	1							
35	3	X9490441303	BOLT	1							
36	3	X9490441312	BOLT	1							
37	3	X9490502820	NUT	1							
38	3	X9490502820	NUT	1							
39	3	X9491402100	O-RING	1							
40	3	X9491402100	O-RING	1							
41	2	X9019008651	NUT	1							
42	2	X9025808001	WASHER	1							
43	2	X9490071810	SCREW W/WASHER	2							
44	2	X9490071970	SCREW W/WASHER	2							
45	2	X9490423330	BOLT W/WASHER	2							
46	2	X9490561370	NUT	1							
47	2	X9491200240	BALL	1							
48	2	X9491703380	SPRING	1							
49	1	26116-120252	BOLT, M12X 25 PLATED	2							
50	1	119643-77900	CONNECTOR, STARTER	1							W

(A)=FROM IST)

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.14. GENERATOR

Fig.14 GENERATOR (COMPONENT PARTS)

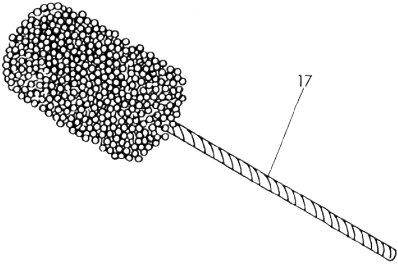
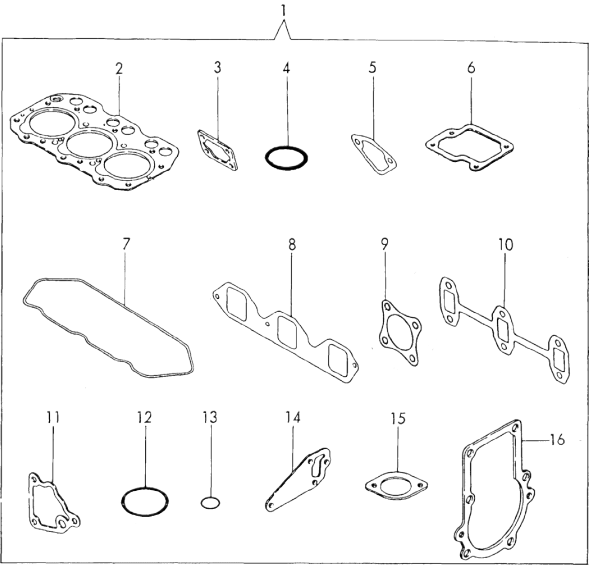


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124080-77201	GENERATOR, LR135-91	1							
2	2	124080-77300	ROTOR ASSY	1							
3	3	124080-77310	SPACER	1							
4	3	124080-77490	BALL BEARING	1							
5	2	124080-77320	STATOR ASSY	1							
6	2	124080-77330	COVER ASSY	1							
7	3	124080-77340	COVER, REAR	1							
8	3	124080-77350	BRUSH ASSY,REGULATOR	1							
9	4	124080-77360	BRUSH ASSY	1							1
9A	4	124080-77370	HOLDER, BRUSH	1							W
(A=FROM 1ST)											
9B	4	124080-77380	BRUSH	2							W
(A=FROM 1ST)											
10	4	124080-77390	REGULATOR ASSY	1							
11	4	124080-77520	BOLT M5	2							
12	3	124080-77400	DIODE ASSY	1							
13	4	124080-77410	BUSH	1							
14	3	124080-77530	WIRE ASSY, LEAD	1							
15	2	124080-77420	COVER ASSY	1							
16	3	124080-77430	RETAINER, BEARING	1							
17	3	124080-77480	BEARING, 6202DDU	1							
18	3	124080-77500	SCREW KIT	1							
19	4	124080-77510	SCREW 4X12	3							
20	2	124080-77440	PULLEY ASSY	1							
21	2	124080-77450	BOLT, THROUGH	2							
22	2	124080-77460	BOLT, THROUGH	1							
23	2	124080-77470	NUT ASSY, PULLEY	1							
24	1	129150-77340	SPACER	1							
24-1	1	119688-77340	SPACER	1							N
(A=FROM 1ST)											
25	1	26106-081202	BOLT, M8X120 PLATED	1							
26	1	26366-080002	NUT, M8	1							
27	1	119660-77330	ADJUSTER	1							
28	1	26014-080252	BOLT, M8X 25	1							

Remarks
(1) REF.NO.9(BRUSH ASSY, P/# 124080-77360) INCLUDES REF.NO.9A(BRUSH HOLDER, P/# 124080-77370) & REF. NO.9B(BRUSH, P/# 124080-77380).

Fig.16. GASKET SET & TOOL(OPTIONAL)

Fig.16 GASKET SET & TOOL



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719685-92600	GASKET SET	1							1
1-1	1	719685-92601	GASKET SET	1						N	1
(A=E/# 37539)											
2	2	119610-01340	GASKET, HEAD	1							
3	2	119660-01561	GASKET	1							
3-1	2	119660-01562	GASKET	1						N	
(A=E/# 37539)											
4	2	24311-000320	O-RING, 1AP32.0		2						
5	2	121520-01850	GASKET	1							
5-1	2	121520-01851	GASKET	1						N	
(A=E/# 37539)											
6	2	119620-03030	GASKET	1							
6-1	2	119620-03031	GASKET	1						N	
(A=E/# 37539)											
7	2	119620-11310	GASKET, BONNET	1							
8	2	119660-12111	GASKET, MANIFOLD	1							
9	2	121000-13200	GASKET, SILENCER	2							
10	2	119620-13110	GASKET	1							
11	2	119660-35112	GASKET	1							
11-1	2	119660-35113	GASKET	1						N	
(A=E/# 37539)											
12	2	124450-35110	O-RING	1							
13	2	24311-000160	O-RING, 1AP16.0	1							
14	2	119620-42020	GASKET, WATER PUMP	1							
15	2	129350-49540	GASKET	1							
15-1	2	129350-49541	GASKET	1						N	
(A=E/# 37539)											
16	2	119660-61051	GASKET	1							
16-1	2	119660-61052	GASKET	1						N	
(A=E/# 37539)											
17	1	129400-92410	FLEX HORN	1							1

Remarks
(1) OPTIONAL PART.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{H10}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{H10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Parts No. Index

Parts No.	Fig. No.	Ref. No.
101158-11190	4	10
101304-59020	11	24
101720-55750	11	13
102103-55520	11	9
103854-59191	11	29
104200-55321	11	5
104200-55330	11	6
104200-55341	11	7
104200-55750	11	14
104200-59170	11	28
104211-11370	4	13
104264-59030	11	19
		22
105010-11230	4	24
		27
105025-59550	10	45
105225-23200	7	18
105546-51330	10	8
105582-59150	11	27
110250-55610	11	10
114250-53130	10	31
114250-53400	10	33
119225-59040	11	23
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