

0CV10-M47901EN

# PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78AC-KG engine manufactured since October, 1995 & 3TNE78AC-EKG engine manufactured since February, 2000.
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.

## 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   | 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 COMPENSATOR 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<br>No  | New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part. |
| Q      | Old $\xrightarrow{\text{No}}$ New<br>Yes  | New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part. |
| R      | Old $\xrightarrow{\text{Yes}}$ New<br>Yes | New/ Old Parts are both interchangeable.                                                   |
| S      | Old $\xrightarrow{\text{No}}$ New<br>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.

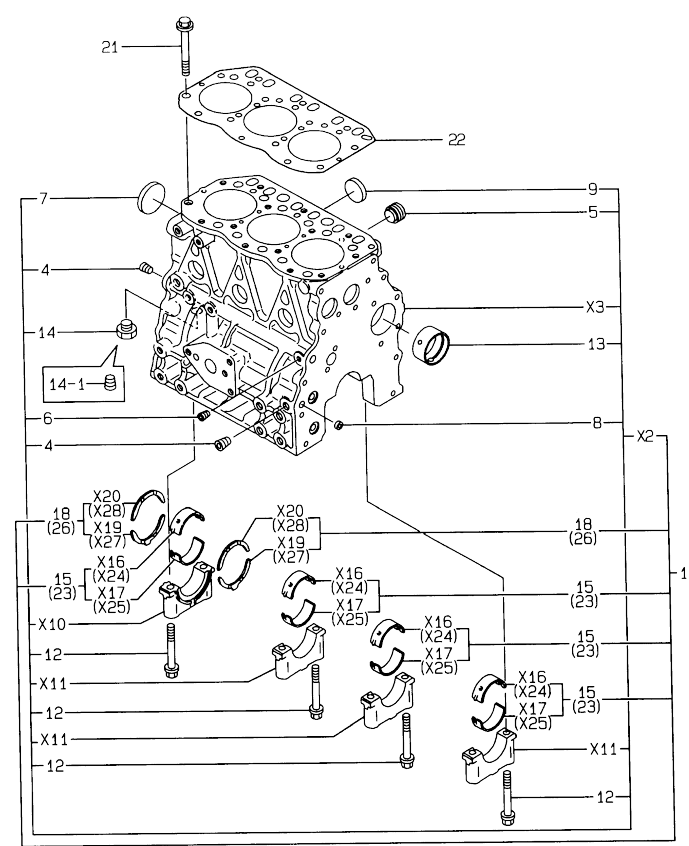
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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| 2.             | GEAR HOUSING                |          |           |
| 3.             | FLYWHEEL HOUSING & OIL 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.            | GOVERNOR                    |          |           |
| 12.            | FUEL INJECTION VALVE        |          |           |
| 13.            | FUEL FILTER                 |          |           |
| 14.            | STARTING MOTOR              |          |           |
| 15.            | GENERATOR                   |          |           |
| 16.            | GASKET SET                  |          |           |

Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK



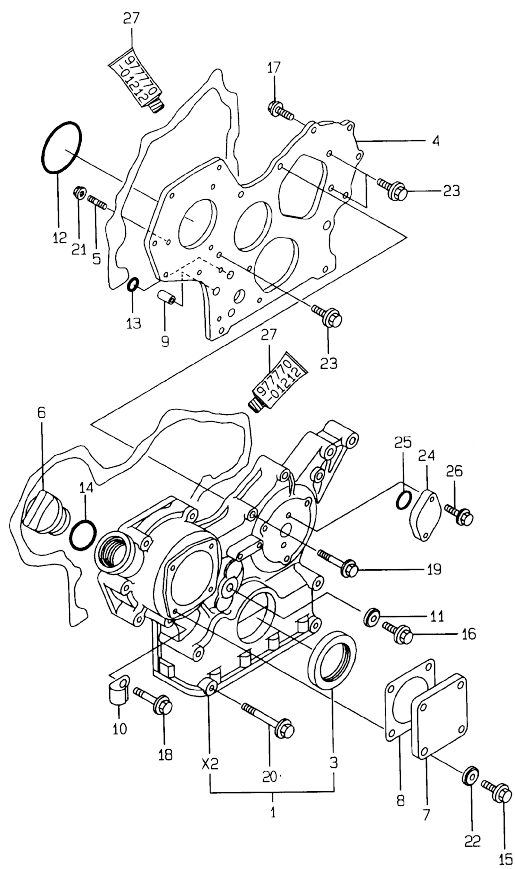
Remarks  
(1) UNDER-SIZE(U.S=0.25)PART.  
(2) OVER-SIZE(O.S=0.25)PART.

| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 719822-01560 | BLOCK ASSY, CYLINDER | 1    | 1   |     |     |     |     |   |   |
| 4          | 3    | 124160-01910 | PLUG, PT1/4          | 2    | 2   |     |     |     |     |   |   |
| 5          | 3    | 171051-01921 | PLUG, NPTF1          | 1    | 1   |     |     |     |     |   |   |
| 6          | 3    | 23871-010000 | PLUG, R01            | 1    |     |     |     |     |     |   |   |
| 6-1        | 3    | 23876-010000 | PLUG, R01            | 1    | 1   |     |     |     |     | N |   |
| (A=E000)   |      |              |                      |      |     |     |     |     |     |   |   |
| 7          | 3    | 27231-500000 | PLUG 50              | 1    |     |     |     |     |     |   |   |
| 7-1        | 3    | 129001-01250 | PLUG, 50             | 1    | 1   |     |     |     |     | N |   |
| (A=E000)   |      |              |                      |      |     |     |     |     |     |   |   |
| 8          | 3    | 27241-120000 | PLUG, 12             | 2    | 2   |     |     |     |     |   |   |
| 9          | 3    | 27241-300000 | PLUG 30              | 6    | 6   |     |     |     |     |   |   |
| 12         | 3    | 119620-02020 | BOLT, METAL CAP      | 8    | 8   |     |     |     |     |   |   |
| 13         | 3    | 129795-02411 | BUSH, CAMSHAFT       | 1    | 1   |     |     |     |     |   |   |
| 14         | 3    | 23887-120002 | PLUG, 12             | 1    |     |     |     |     |     |   |   |
| 14-1       | 3    | 124160-01910 | PLUG, PT1/4          | 1    | 1   |     |     |     |     | S |   |
| (A=E18012) |      |              |                      |      |     |     |     |     |     |   |   |
| 15         | 2    | 119810-02800 | BEARING, MAIN        | 4    | 4   |     |     |     |     |   |   |
| 18         | 2    | 119810-02930 | BEARING, THRUST      | 1    | 1   |     |     |     |     |   |   |
| 21         | 1    | 119810-01200 | BOLT, HEAD           | 14   | 14  |     |     |     |     |   |   |
| 22         | 1    | 119818-01330 | GASKET, HEAD         | 1    | 1   |     |     |     |     |   |   |
| 23         | 1    | 119810-02870 | BEARING, 0.25 US     | 4    | 4   |     |     |     |     |   | 1 |
| 26         | 1    | 119810-02940 | BEARING, THRUST 0.25 | 2    | 2   |     |     |     |     |   | 2 |

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Fig.2. GEAR HOUSING

2. GEAR HOUSING

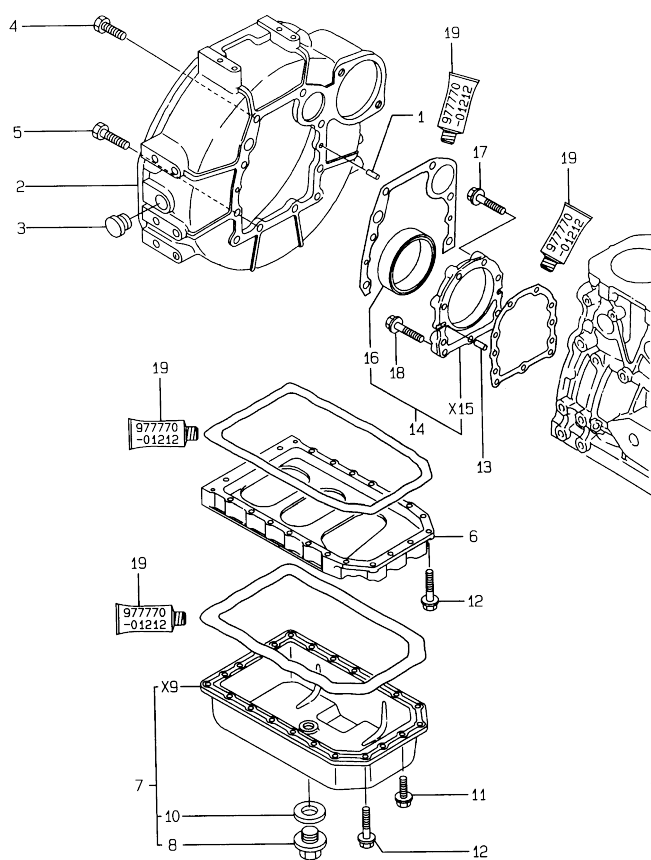


| No.         | Lev. | Parts No.    | Description         | Q'ty |     |     |     |     |     | I | R |
|-------------|------|--------------|---------------------|------|-----|-----|-----|-----|-----|---|---|
|             |      |              |                     | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1           | 1    | 719810-01500 | CASE ASSY, GEAR     | 1    | 1   |     |     |     |     |   |   |
| 3           | 2    | 129795-01800 | SEAL, OIL           | 1    | 1   |     |     |     |     |   |   |
| 4           | 1    | 129400-01520 | FLANGE, GEAR CASE   | 1    | 1   |     |     |     |     |   |   |
| 5           | 1    | 121450-01560 | STUD, M8X22         | 3    | 3   |     |     |     |     |   |   |
| 6           | 1    | 124160-01751 | COVER, FILLER       | 1    | 1   |     |     |     |     |   |   |
| 7           | 1    | 124240-01871 | COVER               | 1    | 1   |     |     |     |     |   |   |
| 8           | 1    | 124240-01883 | GASKET              | 1    | 1   |     |     |     |     |   |   |
| 9           | 1    | 129795-01950 | PIPE, KNOCK L=18    | 2    | 2   |     |     |     |     |   |   |
| 10          | 1    | 129150-03100 | RETAINER, PIPE      | 1    | 1   |     |     |     |     |   |   |
| 11          | 1    | 22190-080002 | WASHER, SEAL 6      | 1    | 1   |     |     |     |     |   |   |
| 12          | 1    | 121850-51960 | O-RING              | 1    | 1   |     |     |     |     |   |   |
| 13          | 1    | 24311-000160 | O-RING, 1AP16.0     | 2    | 2   |     |     |     |     |   |   |
| 14          | 1    | 24311-000320 | O-RING, 1AP32.0     | 1    | 1   |     |     |     |     |   |   |
| 15          | 1    | 26106-080122 | BOLT, M8X 12 PLATED | 4    | 4   |     |     |     |     |   |   |
| 16          | 1    | 26106-080162 | BOLT, M8X 16 PLATED | 1    | 1   |     |     |     |     |   |   |
| 17          | 1    | 26106-080202 | BOLT, M8X 20 PLATED | 2    | 2   |     |     |     |     |   |   |
| 18          | 1    | 26106-080452 | BOLT, M8X 45 PLATED | 6    | 6   |     |     |     |     |   |   |
| 19          | 1    | 26106-080552 | BOLT, M8X 55 PLATED | 3    | 3   |     |     |     |     |   |   |
| 20          | 1    | 26106-080852 | BOLT, M8X 85 PLATED | 4    |     |     |     |     |     |   |   |
| 20-1        | 1    | 129001-91840 | BOLT, M8X85         | 4    | 4   |     |     |     |     |   | R |
| (A=E 18254) |      |              |                     |      |     |     |     |     |     |   |   |
| 21          | 1    | 26366-080002 | NUT, M8             | 3    | 3   |     |     |     |     |   |   |
| 22          | 1    | 22190-080002 | WASHER, SEAL 6      | 4    | 4   |     |     |     |     |   |   |
| 23          | 1    | 26106-080162 | BOLT, M8X 16 PLATED | 3    | 3   |     |     |     |     |   |   |
| 24          | 1    | 121023-01550 | COVER               | 1    | 1   |     |     |     |     |   |   |
| 25          | 1    | 24341-000240 | O-RING, 1AS24.0     | 1    | 1   |     |     |     |     |   |   |
| 26          | 1    | 26106-080122 | BOLT, M6X 12 PLATED | 2    |     |     |     |     |     |   |   |
| 26-1        | 1    | 26106-060162 | BOLT, M6X 16 PLATED | 2    | 2   |     |     |     |     |   | N |
| (A=E XXXX)  |      |              |                     |      |     |     |     |     |     |   |   |
| 27          | 1    | 977770-01212 | GASKET, LIQUID      | 1    | 1   |     |     |     |     |   | 1 |

Remarks  
(1) OPTIONAL PART.

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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### 3. FLYWHEEL HOUSING & OIL SUMP

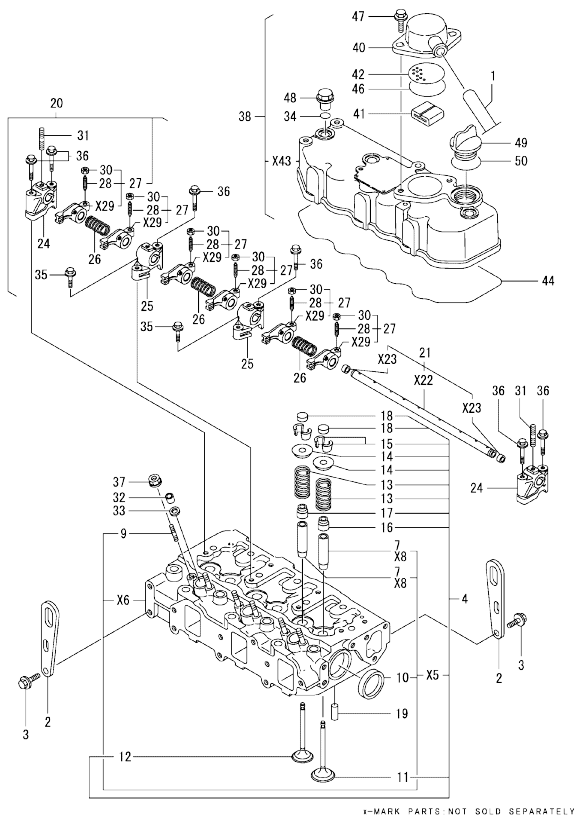
Remarks  
(1) OPTIONAL PART.

|            |      |              |                      | (A)=3TNE78AC-KG<br>(B)=3TNE78AC-EKG<br>(C)= | (D)=<br>(E)=<br>(F)= | Q'ty |     |     |     |  | I | R |
|------------|------|--------------|----------------------|---------------------------------------------|----------------------|------|-----|-----|-----|--|---|---|
| No.        | Lev. | Parts No.    | Description          | (A)                                         | (B)                  | (C)  | (D) | (E) | (F) |  |   |   |
| 1          | 1    | 129100-01580 | PIN, M8X16           | 2                                           | 2                    |      |     |     |     |  |   |   |
| 2          | 1    | 119888-01600 | HOUSING, FLYWHEEL    | 1                                           | 1                    |      |     |     |     |  |   |   |
| 3          | 1    | 119620-01750 | CAP                  | 1                                           | 1                    |      |     |     |     |  |   |   |
| 4          | 1    | 26206-100252 | BOLT, M10X 25 PLATED | 6                                           | 6                    |      |     |     |     |  |   |   |
| 5          | 1    | 26206-100302 | BOLT, M10X 30 PLATED | 4                                           | 4                    |      |     |     |     |  |   |   |
| 6          | 1    | 119810-01730 | SPACER, OIL SUMP     | 1                                           | 1                    |      |     |     |     |  |   |   |
| 7          | 1    | 119810-01790 | SUMP ASSY, OIL       | 1                                           | 1                    |      |     |     |     |  |   |   |
| 8          | 2    | 119640-01640 | PLUG, DRAIN M22      | 1                                           | 1                    |      |     |     |     |  |   |   |
| 10         | 2    | 22190-220002 | WASHER, SEAL 22      | 1                                           | 1                    |      |     |     |     |  |   |   |
| 11         | 1    | 26106-080162 | BOLT, M8X 16 PLATED  | 6                                           | 6                    |      |     |     |     |  |   |   |
| 12         | 1    | 26106-080452 | BOLT, M8X 45 PLATED  | 22                                          | 22                   |      |     |     |     |  |   |   |
| 13         | 1    | 129100-01580 | PIN, M8X16           | 2                                           | 2                    |      |     |     |     |  |   |   |
| 14         | 1    | 719810-01650 | CASE ASSY, OIL SEAL  | 1                                           | 1                    |      |     |     |     |  |   |   |
| 16         | 2    | 119810-01780 | SEAL, 769310         | 1                                           | 1                    |      |     |     |     |  |   |   |
| 17         | 1    | 26106-080302 | BOLT, M8X 30 PLATED  | 6                                           |                      |      |     |     |     |  |   |   |
| 17-1       | 1    | 129486-01670 | BOLT, M8X30          | 6                                           | 6                    |      |     |     |     |  | R |   |
| (A=E00766) |      |              |                      |                                             |                      |      |     |     |     |  |   |   |
| 18         | 1    | 26106-080352 | BOLT, M8X 35 PLATED  | 3                                           | 3                    |      |     |     |     |  |   |   |
| 19         | 1    | 977770-01212 | GASKET, LIQUID       | 1                                           | 1                    |      |     |     |     |  |   |   |

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

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Fig.4. CYLINDER HEAD & BONNET



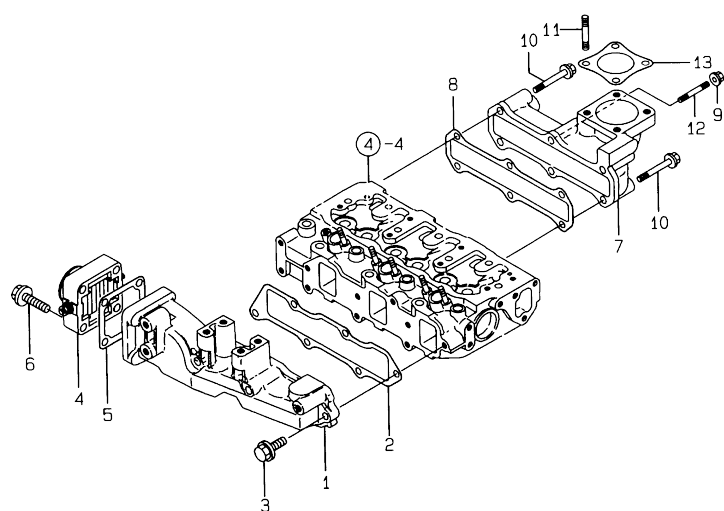
| No.        | Lev. | Parts No.    | Description         | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|---------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                     | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 129150-03090 | HOSE, ID16X2T       | 1    | 1   |     |     |     |     |   |   |
| 2          | 1    | 124736-07900 | LIFTER              | 2    | 2   |     |     |     |     |   |   |
| 3          | 1    | 26106-080142 | BOLT, M8X 14 PLATED | 4    | 4   |     |     |     |     |   |   |
| 4          | 1    | 119812-11700 | HEAD ASSY, CYLINDER | 1    | 1   |     |     |     |     |   | 1 |
| 7          | 3    | 124060-11800 | GUIDE, VALVE        | 6    | 6   |     |     |     |     |   |   |
| 9          | 3    | 26216-060302 | STUD, M6X 30        | 6    | 6   |     |     |     |     |   |   |
| 10         | 3    | 27241-400000 | PLUG, 40            | 2    | 2   |     |     |     |     |   |   |
| 11         | 2    | 119810-11100 | VALVE, INTAKE       | 3    | 3   |     |     |     |     |   |   |
| 12         | 2    | 119810-11110 | VALVE, EXHAUST      | 3    | 3   |     |     |     |     |   |   |
| 13         | 2    | 119810-11120 | SPRING, VALVE       | 6    | 6   |     |     |     |     |   |   |
| 14         | 2    | 104211-11180 | RETAINER, SPRING    | 6    | 6   |     |     |     |     |   |   |
| 15         | 2    | 27310-070001 | COTTER, 7           | 6    | 6   |     |     |     |     |   |   |
| 16         | 2    | 124160-11340 | SEAL, VALVE STEM    | 3    | 3   |     |     |     |     |   |   |
| 17         | 2    | 124950-11340 | SEAL, VALVE STEM    | 3    | 3   |     |     |     |     |   |   |
| 18         | 2    | 104211-11370 | CAP, VALVE          | 6    | 6   |     |     |     |     |   |   |
| 19         | 1    | 22351-060012 | PIN, SPRING 6.0X12  | 2    | 2   |     |     |     |     |   |   |
| 20         | 1    | 119865-11210 | SUPPORT ASSY        | 1    | 1   |     |     |     |     |   |   |
| 21         | 2    | 119810-11240 | SHAFT ASSY, ROCKER  | 1    | 1   |     |     |     |     |   |   |
| 24         | 2    | 129155-11260 | SUPPORT, ROCKER ARM | 2    | 2   |     |     |     |     |   |   |
| 25         | 2    | 129155-11270 | SUPPORT, ROCKER ARM | 2    | 2   |     |     |     |     |   |   |
| 26         | 2    | 129150-11280 | SPRING              | 3    | 3   |     |     |     |     |   |   |
| 27         | 2    | 719810-11660 | ARM ASSY, ROCKER    | 6    | 6   |     |     |     |     |   |   |
| 28         | 3    | 129150-11230 | SCREW, VALVE ADJUST | 6    | 6   |     |     |     |     |   |   |
| 30         | 3    | 129150-11750 | NUT, M8             | 6    | 6   |     |     |     |     |   |   |
| 31         | 2    | 26226-080182 | STUD, M8X 18        | 3    | 3   |     |     |     |     |   |   |
| 32         | 1    | 119625-11871 | PROTECTOR, NOZZLE   | 3    | 3   |     |     |     |     |   |   |
| 32-1       | 1    | 119625-11870 | PROTECTOR, NOZZLE   | 3    | 3   |     |     |     |     |   | N |
| (A=E19093) |      |              |                     |      |     |     |     |     |     |   |   |
| 33         | 1    | 119625-11880 | SEAT, NOZZLE        | 3    | 3   |     |     |     |     |   |   |
| 34         | 1    | 24311-000120 | O-RING, 1AP12.0     | 3    | 3   |     |     |     |     |   |   |
| 35         | 1    | 26106-080252 | BOLT, M8X 25 PLATED | 2    | 2   |     |     |     |     |   |   |
| 36         | 1    | 26106-080502 | BOLT, M8X 50 PLATED | 6    | 6   |     |     |     |     |   |   |
| 37         | 1    | 26366-060002 | NUT, M6             | 6    | 6   |     |     |     |     |   |   |
| 38         | 1    | 719810-11520 | BONNET ASSY, HEAD   | 1    | 1   |     |     |     |     |   |   |
| 38-1       | 1    | 719810-11521 | BONNET ASSY, HEAD   | 1    | 1   |     |     |     |     |   | N |
| (A=E19093) |      |              |                     |      |     |     |     |     |     |   |   |
| 40         | 2    | 129150-03020 | COVER, BREATHER     | 1    | 1   |     |     |     |     |   |   |
| 41         | 2    | 129150-03070 | BAFFLE, BREATHER    | 1    | 1   |     |     |     |     |   |   |
| 42         | 2    | 129150-03080 | PLATE, BAFFLE       | 1    | 1   |     |     |     |     |   |   |
| 44         | 2    | 119865-11310 | GASKET, BONNET      | 1    | 1   |     |     |     |     |   |   |
| 46         | 2    | 24341-000500 | O-RING, 1AS50.0     | 1    | 1   |     |     |     |     |   |   |
| 47         | 2    | 26106-080162 | BOLT, M8X 16 PLATED | 2    | 2   |     |     |     |     |   |   |
| 48         | 1    | 124160-11360 | KNOB                | 3    | 3   |     |     |     |     |   |   |
| 49         | 1    | 124160-01751 | COVER, FILLER       | 1    | 1   |     |     |     |     |   |   |
| 50         | 1    | 24311-000320 | O-RING, 1AP32.0     | 1    | 1   |     |     |     |     |   |   |

Remarks

(1) REPAIR PART.

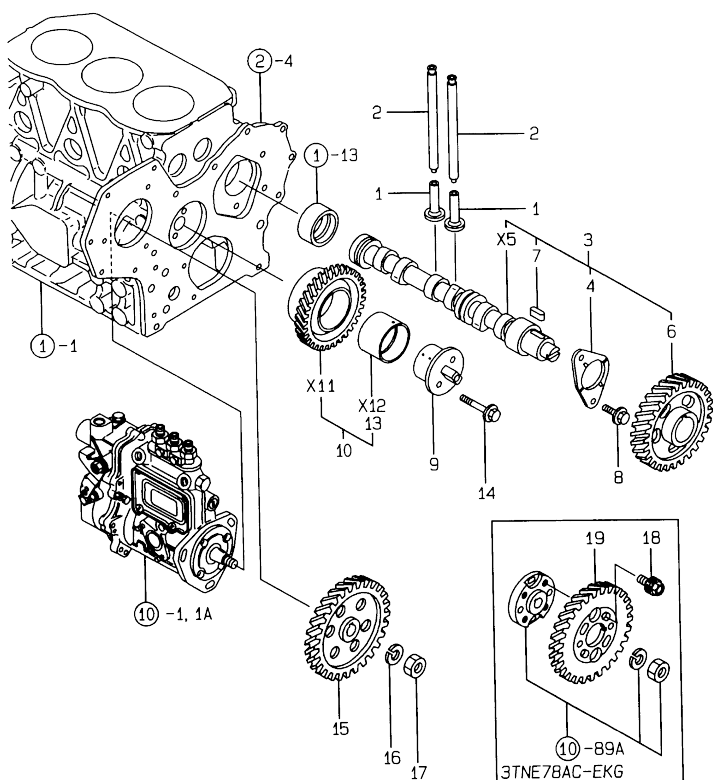
N:Old  $\frac{100}{100}$  New, Q:Old  $\frac{100}{100}$  New, R:Old  $\frac{100}{100}$  New, S:Old  $\frac{100}{100}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
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## 5. SUCTION & EXHAUST MANIFOLD



| No.  | Lev. | Parts No.    | Description          | (A)=3TNE78AC-KG<br>(B)=3TNE78AC-EKG<br>(C)= |     | (D)=<br>(E)=<br>(F)= |     |     |     | I | R |
|------|------|--------------|----------------------|---------------------------------------------|-----|----------------------|-----|-----|-----|---|---|
|      |      |              |                      | (A)                                         | (B) | (C)                  | (D) | (E) | (F) |   |   |
| 1    | 1    | 119813-12100 | MANIFOLD, AIR INTAKE | 1                                           | 1   |                      |     |     |     |   |   |
| 2    | 1    | 119813-12110 | GASKET, MANIFOLD     | 1                                           | 1   |                      |     |     |     |   |   |
| 3    | 1    | 26106-080252 | BOLT, M8X 25 PLATED  | 6                                           | 6   |                      |     |     |     |   |   |
| 4    | 1    | 129120-77501 | HEATER               | 1                                           | 1   |                      |     |     |     |   |   |
| 5    | 1    | 129150-77511 | GASKET               | 1                                           | 1   |                      |     |     |     |   |   |
| 6    | 1    | 26106-080352 | BOLT, M8X 35 PLATED  | 4                                           | 4   |                      |     |     |     |   |   |
| 7    | 1    | 119813-13100 | MANIFOLD, EXHAUST    | 1                                           | 1   |                      |     |     |     |   |   |
| 8    | 1    | 119813-13110 | GASKET               | 1                                           | 1   |                      |     |     |     |   |   |
| 9    | 1    | 194900-22050 | NUT, M8              | 2                                           |     |                      |     |     |     |   |   |
| 9-1  | 1    | 26366-080002 | NUT, M8              | 2                                           | 2   |                      |     |     |     |   | R |
|      |      | (A=EXXX)     |                      |                                             |     |                      |     |     |     |   |   |
| 10   | 1    | 26106-080602 | BOLT, M8X 60 PLATED  | 4                                           | 4   |                      |     |     |     |   |   |
| 11   | 1    | 26216-080222 | STUD, M8X 22         | 4                                           |     |                      |     |     |     |   |   |
| 11-1 | 1    | 119131-18320 | STUD, M8X22          | 4                                           | 4   |                      |     |     |     |   | N |
|      |      | (A=E18012)   |                      |                                             |     |                      |     |     |     |   |   |
| 12   | 1    | 26216-080602 | STUD, M8X 60         | 2                                           | 2   |                      |     |     |     |   |   |
| 13   | 1    | 124701-11911 | GASKET, SILENCER     | 1                                           | 1   |                      |     |     |     |   |   |

## 6. CAMSHAFT & DRIVING GEAR



| No. | Lev. | Parts No.    | Description         | Qty |     |     |     |     |     | I | R |
|-----|------|--------------|---------------------|-----|-----|-----|-----|-----|-----|---|---|
|     |      |              |                     | (A) | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 129150-14200 | TAPPET              | 6   | 6   |     |     |     |     |   |   |
| 2   | 1    | 119810-14400 | ROD, PUSH           | 6   | 6   |     |     |     |     |   |   |
| 3   | 1    | 119810-14580 | CAMSHAFT ASSY       | 1   | 1   |     |     |     |     |   |   |
| 4   | 2    | 129150-02450 | BEARING, THRUST     | 1   | 1   |     |     |     |     |   |   |
| 6   | 2    | 129150-14101 | GEAR, CAMSHAFT      | 1   | 1   |     |     |     |     |   |   |
| 7   | 2    | 22512-070140 | KEY, 7X 14          | 1   | 1   |     |     |     |     |   |   |
| 8   | 1    | 26106-080162 | BOLT, M8X 16 PLATED | 2   |     |     |     |     |     |   |   |
| 8-1 | 1    | 26106-080142 | BOLT, M8X 14 PLATED | 2   | 2   |     |     |     |     |   | N |
|     |      | (A=E00624)   |                     |     |     |     |     |     |     |   |   |
| 9   | 1    | 129100-25061 | SHAFT, IDLE         | 1   | 1   |     |     |     |     |   |   |
| 10  | 1    | 129150-25101 | GEAR ASSY, IDLE     | 1   | 1   |     |     |     |     |   |   |
| 13  | 2    | 129150-25920 | BUSH, IDLE GEAR     | 1   | 1   |     |     |     |     |   | 1 |
| 14  | 1    | 26106-080452 | BOLT, M8X 45 PLATED | 2   | 2   |     |     |     |     |   |   |
| 15  | 1    | 129150-25900 | GEAR, PUMP          | 1   |     |     |     |     |     |   |   |
| 16  | 1    | 22217-120000 | WASHER, SPRING 12   | 1   |     |     |     |     |     |   |   |
| 17  | 1    | 26716-120002 | NUT, M12            | 1   |     |     |     |     |     |   |   |
| 18  | 1    | 129150-25301 | BOLT                |     | 4   |     |     |     |     |   |   |
| 19  | 1    | 129150-25931 | GEAR, PUMP          |     | 1   |     |     |     |     |   |   |

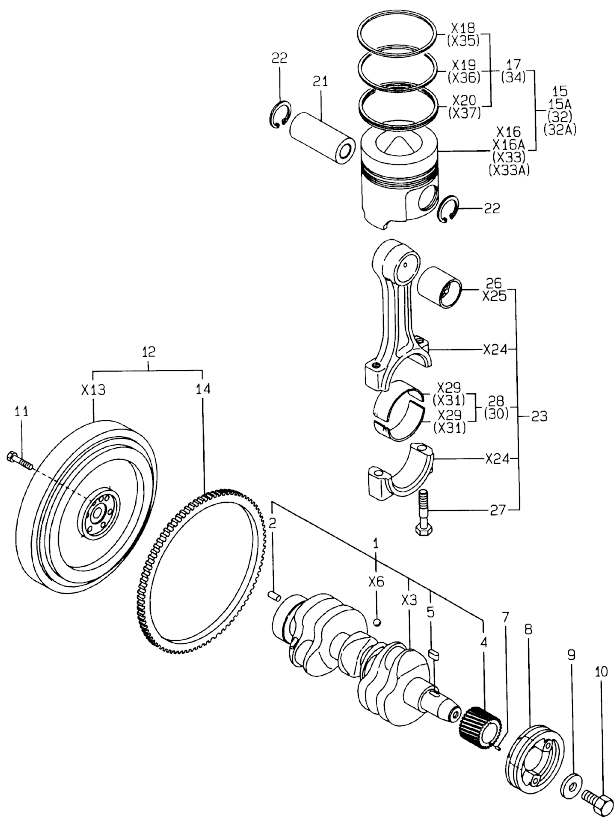
Remarks  
(1) REPAIR PART.

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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OCV10-M47901

Fig.7. CRANKSHAFT & PISTON

7.CRANKSHAFT & PISTON

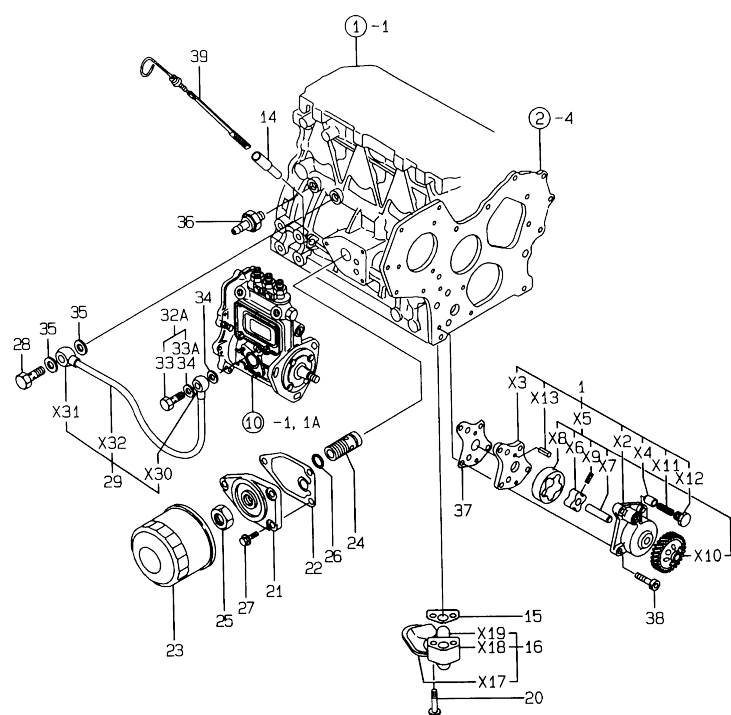


x-MARK PARTS: NOT SOLD SEPARATELY.

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

| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 119813-21000 | CRANKSHAFT ASSY      | 1    | 1   |     |     |     |     |   |   |
| 2   | 2    | 129100-01580 | PIN, M8X16           | 1    | 1   |     |     |     |     |   |   |
| 4   | 2    | 129150-21200 | GEAR, CRANKSHAFT     | 1    | 1   |     |     |     |     |   |   |
| 5   | 2    | 22512-070140 | KEY, 7X 14           | 1    | 1   |     |     |     |     |   |   |
| 7   | 1    | 22351-040010 | PIN, SPRING 4.0X10   | 1    | 1   |     |     |     |     |   |   |
| 8   | 1    | 129550-21650 | V-PULLEY             | 1    | 1   |     |     |     |     |   |   |
| 9   | 1    | 129795-21661 | WASHER               | 1    | 1   |     |     |     |     |   |   |
| 10  | 1    | 121850-21680 | BOLT                 | 1    | 1   |     |     |     |     |   |   |
| 11  | 1    | 121111-21501 | BOLT, FLYWHEEL       | 6    | 6   |     |     |     |     |   |   |
| 12  | 1    | 119888-21590 | FLYWHEEL ASSY        | 1    | 1   |     |     |     |     |   |   |
| 14  | 2    | 119865-21600 | GEAR, RING           | 1    | 1   |     |     |     |     |   |   |
| 15  | 1    | 119818-22080 | PISTON ASSY          | 3    |     |     |     |     |     |   |   |
| 15A | 1    | 119923-22080 | PISTON ASSY          |      | 3   |     |     |     |     |   |   |
| 17  | 2    | 119818-22500 | RING SET, PISTON     | 3    | 3   |     |     |     |     |   |   |
| 21  | 1    | 119813-22300 | PIN, PISTON          | 3    | 3   |     |     |     |     |   |   |
| 22  | 1    | 129792-22400 | CIRCLIP, 23          | 6    | 6   |     |     |     |     |   |   |
| 23  | 1    | 719810-23100 | ROD ASSY, CONNECTING | 3    | 3   |     |     |     |     |   |   |
| 26  | 2    | 119810-23910 | BEARING, PISTON PIN  | 3    | 3   |     |     |     |     |   | 1 |
| 27  | 2    | 119810-23200 | BOLT, CONNECTING ROD | 6    | 6   |     |     |     |     |   |   |
| 28  | 2    | 119810-23600 | BEARING, CRANK PIN   | 3    | 3   |     |     |     |     |   |   |
| 30  | 1    | 119810-23610 | BEARING, 0.25 US     | 3    | 3   |     |     |     |     |   |   |
| 32  | 1    | 119818-22900 | PISTON ASSY, 0.25 OS | 3    |     |     |     |     |     |   | 3 |
| 32A | 1    | 119818-22930 | PISTON ASSY, 0.25 OS |      | 3   |     |     |     |     |   | 3 |
| 34  | 2    | 119818-22950 | RING SET, 0.25 OS    | 3    | 3   |     |     |     |     |   | 3 |

## 8.LUB.OIL SYSTEM

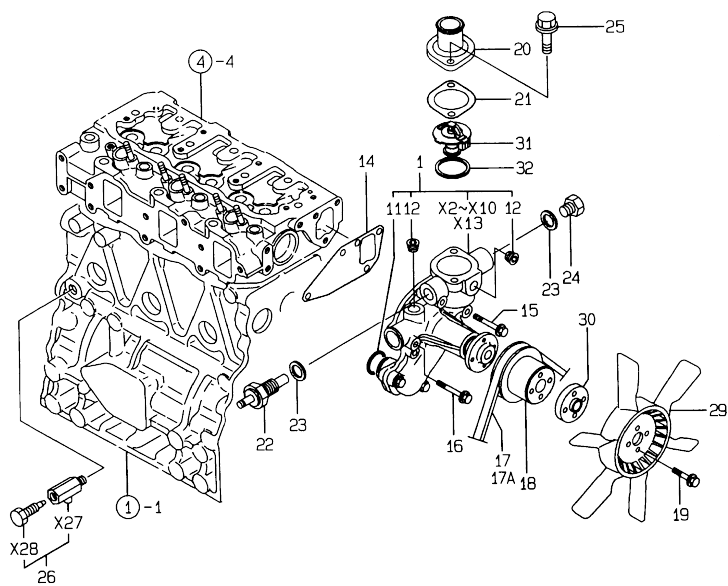


| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 129001-32001 | PUMP ASSY, OIL       | 1    | 1   |     |     |     |     |   |   |
| 14         | 1    | 121520-34810 | GUIDE, DIPSTICK      | 1    | 1   |     |     |     |     |   |   |
| 15         | 1    | 129150-35041 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 16         | 1    | 119810-35401 | PIPE ASSY, OIL INLET | 1    | 1   |     |     |     |     |   |   |
| 20         | 1    | 26106-080352 | BOLT, M8X 35 PLATED  | 2    | 2   |     |     |     |     |   |   |
| 21         | 1    | 129150-35101 | BRACKET, STRAINER    | 1    | 1   |     |     |     |     |   |   |
| 22         | 1    | 129150-35111 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 23         | 1    | 129150-35151 | FILTER, D80XL80      | 1    | 1   |     |     |     |     |   |   |
| 24         | 1    | 129001-35300 | BOLT, FILTER         | 1    | 1   |     |     |     |     |   |   |
| 25         | 1    | 129150-35350 | NUT                  | 1    | 1   |     |     |     |     |   |   |
| 26         | 1    | 24311-000160 | O-RING, 1AP16.0      | 1    | 1   |     |     |     |     |   |   |
| 27         | 1    | 26106-080202 | BOLT, M8X 20 PLATED  | 3    | 3   |     |     |     |     |   |   |
| 28         | 1    | 124160-39140 | BOLT, PIPE JOINT M10 | 1    | 1   |     |     |     |     |   |   |
| 29         | 1    | 119810-39200 | PIPE ASSY, OIL       | 1    | 1   |     |     |     |     |   |   |
| 32A        | 1    | 124550-59830 | BOLT ASSY, JOINT M8  | 1    | 1   |     |     |     |     |   | W |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 33         | 2    | 124550-59820 | BOLT, PIPE JOINT M8  | 1    | 1   |     |     |     |     |   |   |
| 33A        | 2    | 22190-080002 | WASHER, SEAL 6       | 1    | 1   |     |     |     |     |   | W |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 34         | 1    | 22190-080002 | WASHER, SEAL 6       | 2    |     |     |     |     |     |   |   |
| 34-1       | 1    | 22190-080002 | WASHER, SEAL 6       | 1    | 1   |     |     |     |     |   | K |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 35         | 1    | 23414-100000 | GASKET, 10X1.0       | 2    |     |     |     |     |     |   |   |
| 35-1       | 1    | 22190-100002 | WASHER, SEAL 10      | 2    | 2   |     |     |     |     |   | N |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 36         | 1    | 124160-39450 | SWITCH, 0.5KG        | 1    |     |     |     |     |     |   |   |
| 36-1       | 1    | 114250-39450 | SWITCH, 0.5KG        | 1    | 1   |     |     |     |     |   | N |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 37         | 1    | 129150-32020 | GASKET, PUMP         | 1    | 1   |     |     |     |     |   |   |
| 38         | 1    | 26450-060252 | BOLT, M6X 25         | 4    | 4   |     |     |     |     |   |   |
| 39         | 1    | 119600-34800 | DIPSTICK, OIL        | 1    | 1   |     |     |     |     |   |   |

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Fig.9. COOLING WATER SYSTEM

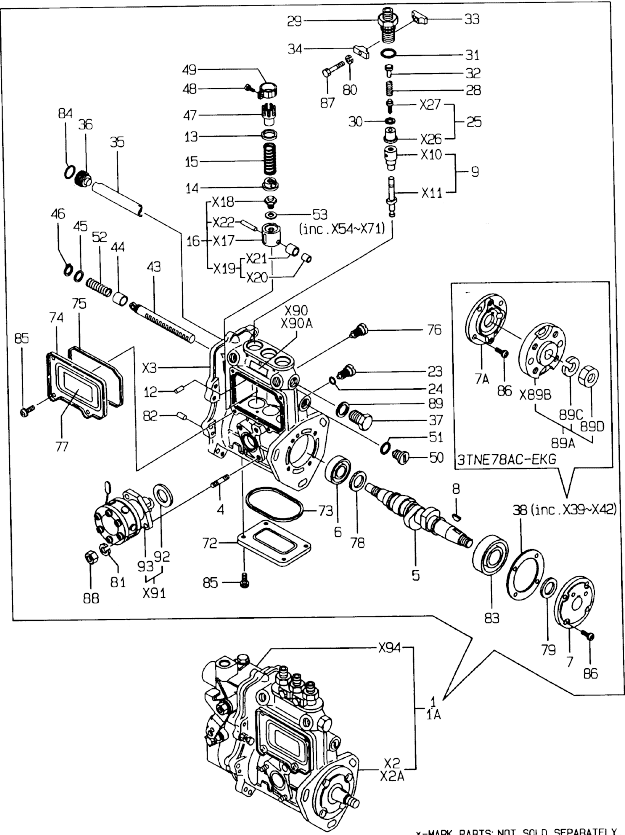
9.COOLING WATER SYSTEM



| No.        | Lev. | Parts No.    | Description         | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|---------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                     | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 119810-42001 | PUMP ASSY, WATER    | 1    | 1   |     |     |     |     |   |   |
| 11         | 2    | 129150-42320 | O-RING              | 1    | 1   |     |     |     |     |   |   |
| 12         | 2    | 23871-030000 | PLUG, R03           | 2    |     |     |     |     |     |   |   |
| 12-1       | 2    | 23876-030000 | PLUG, R03           | 2    | 2   |     |     |     |     |   | N |
| (A=E0000)  |      |              |                     |      |     |     |     |     |     |   |   |
| 14         | 1    | 129150-42020 | GASKET, WATER PUMP  | 1    |     |     |     |     |     |   |   |
| 14-1       | 1    | 129486-42050 | GASKET, WATER PUMP  | 1    | 1   |     |     |     |     |   | N |
| (A=E19093) |      |              |                     |      |     |     |     |     |     |   |   |
| 15         | 1    | 26106-080352 | BOLT, M8X 35 PLATED | 1    | 1   |     |     |     |     |   |   |
| 16         | 1    | 26106-080552 | BOLT, M8X 55 PLATED | 3    | 3   |     |     |     |     |   |   |
| 17         | 1    | 124722-42290 | V-BELT, A40         | 1    |     |     |     |     |     |   |   |
| 17A        | 1    | 25132-003900 | V-BELT, A39         |      |     | 1   |     |     |     |   |   |
| 18         | 1    | 129550-42350 | V-PULLEY, D=120     | 1    | 1   |     |     |     |     |   |   |
| 19         | 1    | 26014-060252 | BOLT, M6X 25        | 4    | 4   |     |     |     |     |   |   |
| 20         | 1    | 129350-49530 | COVER, THERMOSTAT   | 1    | 1   |     |     |     |     |   |   |
| 21         | 1    | 129795-49551 | GASKET              | 1    | 1   |     |     |     |     |   |   |
| 22         | 1    | 121250-44901 | SWITCH, 110         | 1    | 1   |     |     |     |     |   |   |
| 23         | 1    | 124465-44950 | GASKET, 16          | 2    | 2   |     |     |     |     |   |   |
| 24         | 1    | 121450-42450 | PLUG, M16           | 1    | 1   |     |     |     |     |   |   |
| 25         | 1    | 26106-080202 | BOLT, M8X 20 PLATED | 2    |     |     |     |     |     |   |   |
| 25-1       | 1    | 26106-080222 | BOLT, M8X 22 PLATED | 2    | 2   |     |     |     |     |   | N |
| (A=E0000)  |      |              |                     |      |     |     |     |     |     |   |   |
| 26         | 1    | 119620-49290 | COCK ASSY, 1/4      | 1    | 1   |     |     |     |     |   |   |
| 29         | 1    | 129110-44740 | FAN, COOLING D390   | 1    | 1   |     |     |     |     |   |   |
| 30         | 1    | 124574-44761 | SPACER, FAN         | 1    | 1   |     |     |     |     |   |   |
| 31         | 1    | 129155-49800 | THERMOSTAT, 71      | 1    | 1   |     |     |     |     |   |   |
| 32         | 1    | 129150-49811 | GASKET, THERMOSTAT  | 1    | 1   |     |     |     |     |   |   |

Fig.10. FUEL INJECTION PUMP

10.FUEL INJECTION PUMP

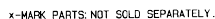


Remarks  
(1) GOVERNOR ASSY(FIG.11) IS  
INCORPORATED IN THIS FOP.CMP  
(REF.NO.1,1A).

| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 719989-51330 | PUMP ASSY, INJECTION | 1    |     |     |     |     |     |   | 1 |
| 1A         | 1    | 719989-51470 | PUMP ASSY, INJECTION |      | 1   |     |     |     |     |   | 1 |
| 4          | 3    | 129155-51020 | STUD                 | 2    | 2   |     |     |     |     |   |   |
| 5          | 3    | 119810-51040 | CAMSHAFT             | 1    | 1   |     |     |     |     |   |   |
| 6          | 3    | 129155-51050 | BEARING, 17BM001D    | 1    | 1   |     |     |     |     |   |   |
| 7          | 3    | 129155-51060 | SUPPORT, CAMSHAFT    | 1    |     |     |     |     |     |   |   |
| 7A         | 3    | 129208-51060 | SUPPORT              |      | 1   |     |     |     |     |   |   |
| 8          | 3    | 122710-51090 | KEY                  | 1    | 1   |     |     |     |     |   |   |
| 9          | 3    | 129108-51100 | PLUNGER ASSY         | 3    | 3   |     |     |     |     |   |   |
| 12         | 3    | 129155-51140 | PIN                  | 3    | 3   |     |     |     |     |   |   |
| 13         | 3    | 174307-51170 | RETAINER, SPRING A   | 3    | 3   |     |     |     |     |   |   |
| 14         | 3    | 129155-51180 | RETAINER, SPRING     | 3    | 3   |     |     |     |     |   |   |
| 15         | 3    | 124950-51190 | SPRING, PLUNGER      | 3    | 3   |     |     |     |     |   |   |
| 16         | 3    | 129155-51200 | TAPPET ASSY          | 3    | 3   |     |     |     |     |   |   |
| 23         | 3    | 129155-51270 | STOPPER, TAPPET      | 3    | 3   |     |     |     |     |   |   |
| 24         | 3    | 129155-51280 | O-RING, S6           | 3    | 3   |     |     |     |     |   |   |
| 25         | 3    | 128170-51300 | VALVE ASSY, DELIVERY | 3    | 3   |     |     |     |     |   |   |
| 28         | 3    | 129155-51320 | SPRING, DELIVERY     | 3    | 3   |     |     |     |     |   |   |
| 29         | 3    | 129155-51340 | RETAINER             | 3    | 3   |     |     |     |     |   |   |
| 30         | 3    | 124550-51350 | GASKET, DELIVERY     | 3    | 3   |     |     |     |     |   |   |
| 31         | 3    | 124550-51370 | O-RING               | 3    | 3   |     |     |     |     |   |   |
| 32         | 3    | 129155-51370 | STOPPER, VALVE       | 3    | 3   |     |     |     |     |   |   |
| 33         | 3    | 129155-51380 | STOPPER              | 2    | 2   |     |     |     |     |   |   |
| 34         | 3    | 129155-51390 | STOPPER              | 2    | 2   |     |     |     |     |   |   |
| 35         | 3    | 129155-51400 | DEFLECTOR            | 1    | 1   |     |     |     |     |   |   |
| 36         | 3    | 129155-51410 | BOLT                 | 1    | 1   |     |     |     |     |   |   |
| 37         | 3    | 129155-51420 | PLUG, M16            | 1    | 1   |     |     |     |     |   |   |
| 38         | 3    | 129155-51450 | SHIM SET, ADJUSTING  | 1    | 1   |     |     |     |     |   |   |
| 43         | 3    | 129155-51500 | RACK, CONTROL        | 1    | 1   |     |     |     |     |   |   |
| 44         | 3    | 129155-51521 | BUSH, RACK           | 1    | 1   |     |     |     |     |   |   |
| 45         | 3    | 129155-51530 | SPACER               | 1    | 1   |     |     |     |     |   |   |
| 46         | 3    | 129155-51540 | CIRCLIP              | 1    | 1   |     |     |     |     |   |   |
| 47         | 3    | 129155-51550 | PINION, CONTROL      | 3    | 3   |     |     |     |     |   |   |
| 48         | 3    | 122117-51560 | SCREW                | 3    | 3   |     |     |     |     |   |   |
| 49         | 3    | 174307-51560 | PINION               | 3    | 3   |     |     |     |     |   |   |
| 50         | 3    | 129155-51570 | PLUG, M12            | 1    | 1   |     |     |     |     |   |   |
| 51         | 3    | 129155-51580 | O-RING               | 1    | 1   |     |     |     |     |   |   |
| 52         | 3    | 129155-51591 | SPRING, RACK         | 1    | 1   |     |     |     |     |   |   |
| 53         | 3    | 129155-51600 | SHIM SET, ADJUSTING  | 3    | 3   |     |     |     |     |   |   |
| 72         | 3    | 129155-51700 | COVER                | 1    |     |     |     |     |     |   |   |
| 72-1       | 3    | 129155-51701 | COVER                | 1    | 1   |     |     |     |     |   | N |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 73         | 3    | 129155-51710 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 74         | 3    | 129155-51750 | COVER                | 1    |     |     |     |     |     |   |   |
| 74-1       | 3    | 129155-51751 | COVER                | 1    | 1   |     |     |     |     |   | N |
| (A=E19093) |      |              |                      |      |     |     |     |     |     |   |   |
| 75         | 3    | 129155-51760 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 76         | 3    | 129155-51790 | STOOPER, RACK        | 1    | 1   |     |     |     |     |   |   |
| 77         | 3    | 129156-51910 | LABEL, CAUTION       | 1    | 1   |     |     |     |     |   |   |
| 78         | 3    | 129156-51930 | SPACER, T=3.25       | 1    | 1   |     |     |     |     |   |   |
| 79         | 3    | 129155-51940 | SPACER, T=1.5        | 1    | 1   |     |     |     |     |   |   |

N:Old  $\frac{100}{100}$  New, Q:Old  $\frac{100}{100}$  New, R:Old  $\frac{100}{100}$  New, S:Old  $\frac{100}{100}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
++ CONTINUE ++  
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## 10.FUEL INJECTION PUMP



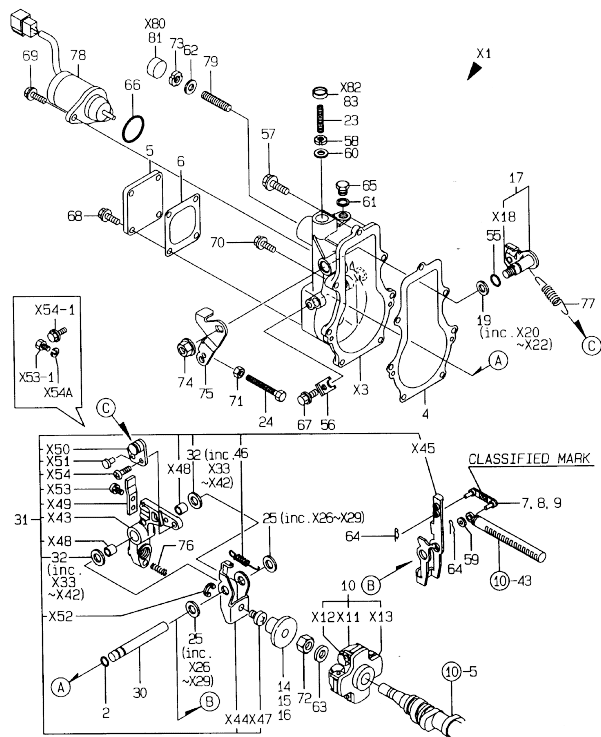
Remarks  
(1) GOVERNOR ASSY(FIG.11) IS  
INCORPORATED IN THIS FOP.CMP  
(REF.NO.1,1A).

| No.  | Lev. | Parts No.    | Description          | (A)=3TNE78AC-KG<br>(B)=3TNE78AC-EKG<br>(C)= |     | (D)=<br>(E)=<br>(F)= |     |     |     |  | I | R |
|------|------|--------------|----------------------|---------------------------------------------|-----|----------------------|-----|-----|-----|--|---|---|
|      |      |              |                      | (A)                                         | (B) | (C)                  | (D) | (E) | (F) |  |   |   |
| 80   | 3    | 22217-050000 | WASHER, SPRING 5     | 2                                           | 2   |                      |     |     |     |  |   |   |
| 81   | 3    | 22217-060000 | WASHER, SPRING 6     | 2                                           | 2   |                      |     |     |     |  |   |   |
| 82   | 3    | 22351-050010 | PIN, SPRING 5.0X10   | 2                                           | 2   |                      |     |     |     |  |   |   |
| 83   | 3    | 24101-063034 | BEARING, BALL 6303   | 1                                           | 1   |                      |     |     |     |  |   |   |
| 84   | 3    | 24341-000160 | O-RING, 1AS16.0      | 1                                           | 1   |                      |     |     |     |  |   |   |
| 85   | 3    | 26022-050102 | SCREW, M5X10         | 8                                           |     |                      |     |     |     |  |   |   |
| 85-1 | 3    | 26022-050122 | SCREW, M5X12         | 8                                           | 8   |                      |     |     |     |  |   | N |
|      |      | (A=E 19093)  |                      |                                             |     |                      |     |     |     |  |   |   |
| 86   | 3    | 26022-060162 | SCREW, M6X16         | 4                                           | 4   |                      |     |     |     |  |   |   |
| 87   | 3    | 26116-050302 | BOLT, M5X 30 PLATED  | 2                                           | 2   |                      |     |     |     |  |   |   |
| 88   | 3    | 26716-060002 | NUT, M6              | 2                                           | 2   |                      |     |     |     |  |   |   |
| 89   | 3    | 22190-160002 | WASHER, SEAL 16      | 1                                           | 1   |                      |     |     |     |  |   |   |
| 89A  | 3    | 129208-54500 | FLANGE ASSY          |                                             | 1   |                      |     |     |     |  |   |   |
| 89C  | 4    | 22217-120000 | WASHER, SPRING 12    |                                             | 1   |                      |     |     |     |  |   |   |
| 89D  | 4    | 26716-120002 | NUT, M12             |                                             | 1   |                      |     |     |     |  |   |   |
| 92   | 3    | 129155-52050 | GASKET               | 1                                           | 1   |                      |     |     |     |  |   |   |
| 93   | 3    | 129491-52100 | PUMP ASSY, FUEL FEED | 1                                           | 1   |                      |     |     |     |  |   |   |

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

Fig.11. GOVERNOR

11. GOVERNOR

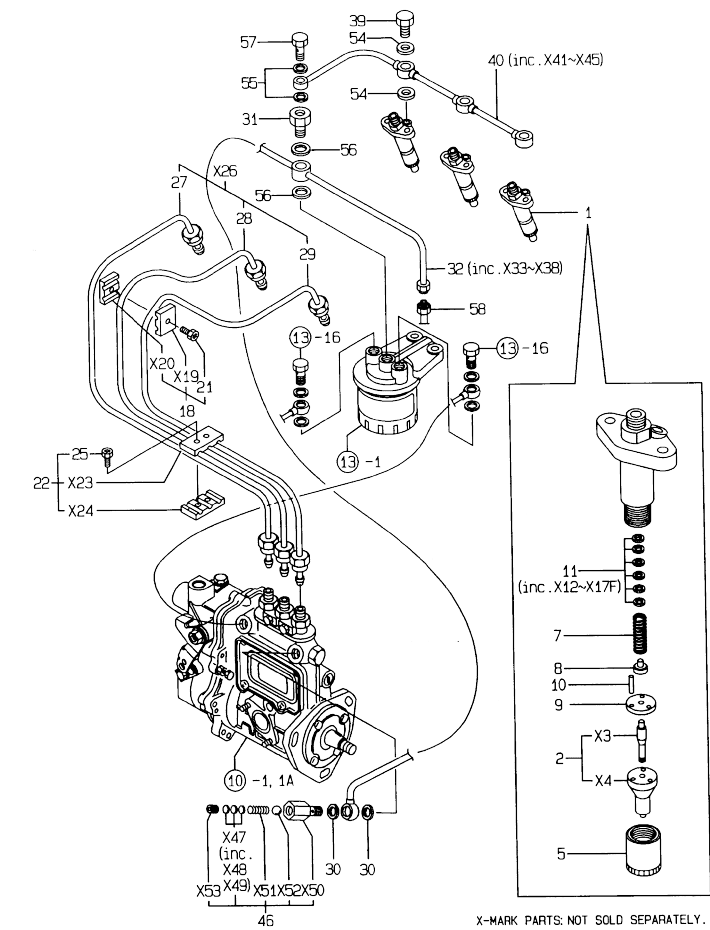


Remarks  
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION ).  
(2) SELECTIVE PARTS.  
(3) REPAIR PART.  
\* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.10).

| No.                     | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-------------------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|                         |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 2                       | 3    | 129155-51280 | O-RING, S6           | 1    | 1   |     |     |     |     |   |   |
| 4                       | 3    | 129116-61051 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 5                       | 3    | 129052-61060 | COVER, GOVERNOR CASE | 1    | 1   |     |     |     |     |   |   |
| 6                       | 3    | 119988-61070 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 7                       | 3    | 129155-61120 | LINK, L=30 MARK 0    | 1    | 1   |     |     |     |     |   | 1 |
| 8                       | 3    | 129155-61130 | LINK, L=31 MARK 1    | 1    | 1   |     |     |     |     |   | 1 |
| 9                       | 3    | 129155-61140 | LINK, L=30.5 MARK 05 | 1    | 1   |     |     |     |     |   | 1 |
| 10                      | 3    | 171488-61200 | WEIGHT ASSY,GOVERNOR | 1    | 1   |     |     |     |     |   |   |
| 14                      | 3    | 129155-61341 | SLEEVE               | 1    | 1   |     |     |     |     |   | 2 |
| 15                      | 3    | 129155-61350 | SLEEVE, L=24.9       | 1    | 1   |     |     |     |     |   | 2 |
| 16                      | 3    | 129155-61360 | SLEEVE, L=25.2       | 1    | 1   |     |     |     |     |   | 2 |
| 17                      | 3    | 119988-61400 | SHAFT ASSY           | 1    | 1   |     |     |     |     |   |   |
| 19                      | 3    | 129155-61430 | SPACER               | 1    | 1   |     |     |     |     |   |   |
| 23                      | 3    | 119988-61460 | BOLT, LIMITER        | 1    | 1   |     |     |     |     |   |   |
| 24                      | 3    | 129155-61460 | BOLT, IDLE           | 1    | 1   |     |     |     |     |   |   |
| 25                      | 3    | 129155-61480 | SPACER ASSY          | 2    | 2   |     |     |     |     |   |   |
| 30                      | 3    | 129052-61390 | SHAFT                | 1    | 1   |     |     |     |     |   |   |
| 31                      | 3    | 129412-61500 | LEVER ASSY, GOVERNOR | 1    | 1   |     |     |     |     |   |   |
| 32                      | 4    | 174307-51700 | SHIM SET             | 2    | 2   |     |     |     |     |   |   |
| 46                      | 4    | 119843-61540 | SPRING, SET          | 1    | 1   |     |     |     |     |   |   |
| 55                      | 3    | 129155-61830 | O-RING, S10          | 1    | 1   |     |     |     |     |   |   |
| 56                      | 3    | 119660-61901 | RETAINER, SHAFT      | 1    | 1   |     |     |     |     |   |   |
| 57                      | 3    | 129155-61950 | BOLT                 | 1    | 1   |     |     |     |     |   |   |
| 58                      | 3    | 119685-61950 | NUT, M6              | 1    | 1   |     |     |     |     |   |   |
| 59                      | 3    | 22117-040000 | WASHER, 4            | 1    | 1   |     |     |     |     |   |   |
| 60                      | 3    | 22190-060002 | WASHER, SEAL 6       | 1    | 1   |     |     |     |     |   |   |
| 61                      | 3    | 22190-100002 | WASHER, SEAL 10      | 1    | 1   |     |     |     |     |   |   |
| 62                      | 3    | 22190-120002 | WASHER, SEAL 12      | 1    | 1   |     |     |     |     |   |   |
| 63                      | 3    | 22287-120000 | WASHER, 12           | 1    | 1   |     |     |     |     |   |   |
| 64                      | 3    | 22372-040000 | PIN, SNAP 4          | 2    | 2   |     |     |     |     |   |   |
| 65                      | 3    | 23887-100002 | PLUG, 10             | 1    | 1   |     |     |     |     |   |   |
| 66                      | 3    | 24341-000280 | O-RING, 1AS28.0      | 1    | 1   |     |     |     |     |   |   |
| 66-1                    | 3    | 158552-61900 | O-RING               | 1    | 1   |     |     |     |     |   | N |
| (A)=EXXXXXX (B)=EXXXXXX |      |              |                      |      |     |     |     |     |     |   |   |
| 67                      | 3    | 26106-060102 | BOLT, M6X 10 PLATED  | 1    | 1   |     |     |     |     |   |   |
| 68                      | 3    | 26106-060102 | BOLT, M6X 10 PLATED  | 4    | 4   |     |     |     |     |   |   |
| 69                      | 3    | 26106-060142 | BOLT, M6X 14 PLATED  | 2    | 2   |     |     |     |     |   |   |
| 70                      | 3    | 26106-060202 | BOLT, M6X 20 PLATED  | 6    | 6   |     |     |     |     |   |   |
| 71                      | 3    | 26756-060002 | NUT, LOCK M6         | 1    | 1   |     |     |     |     |   |   |
| 72                      | 3    | 26776-120002 | NUT, LOCK M12        | 1    | 1   |     |     |     |     |   |   |
| 73                      | 3    | 119685-61940 | NUT, M12             | 1    | 1   |     |     |     |     |   |   |
| 74                      | 2    | 26366-080002 | NUT, M8              | 1    | 1   |     |     |     |     |   |   |
| 75                      | 2    | 171488-61440 | LEVER, CONTROL       | 1    | 1   |     |     |     |     |   |   |
| 76                      | 2    | 129500-61650 | SPRING, FUEL CONTROL | 1    | 1   |     |     |     |     |   |   |
| 77                      | 2    | 129477-61710 | SPRING, GOVERNOR     | 1    | 1   |     |     |     |     |   |   |
| 78                      | 2    | 119653-77950 | SOLENOID, STOP       | 1    | 1   |     |     |     |     |   |   |
| 79                      | 2    | 129155-61470 | BOLT, CONTROL        | 1    | 1   |     |     |     |     |   |   |
| 81                      | 1    | 119621-66610 | PLUG, 22             | 1    | 1   |     |     |     |     |   | 3 |
| 83                      | 1    | 119621-66710 | PLUG, 14             | 1    | 1   |     |     |     |     |   | 3 |

Fig.12. FUEL INJECTION VALVE

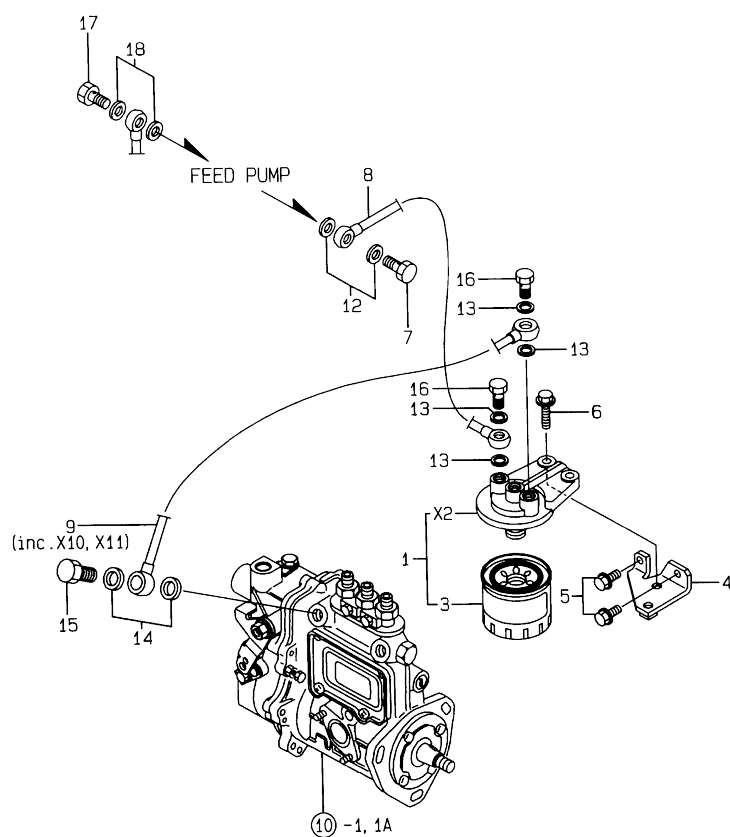
12.FUEL INJECTION VALVE



(A)=3TNE78AC-KG  
(B)=3TNE78AC-EKG  
(C)=  
(D)=  
(E)=  
(F)=

| No.          | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|--------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|              |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1            | 1    | 719989-53300 | VALVE ASSY,INJECTION | 3    | 3   |     |     |     |     |   |   |
| 2            | 2    | 119818-53000 | VALVE ASSY,INJECTION | 3    | 3   |     |     |     |     |   |   |
| 5            | 2    | 114250-53080 | NUT, NOZZLE D16.95   | 3    | 3   |     |     |     |     |   |   |
| 7            | 2    | 114250-53120 | SPRING, NOZZLE       | 3    | 3   |     |     |     |     |   |   |
| 8            | 2    | 114250-53130 | SEAT, SPRING         | 3    | 3   |     |     |     |     |   |   |
| 9            | 2    | 114250-53140 | PLATE                | 3    | 3   |     |     |     |     |   |   |
| 10           | 2    | 114250-53210 | PIN                  | 6    | 6   |     |     |     |     |   |   |
| 11           | 2    | 114250-53400 | SHIM SET             | 3    | 3   |     |     |     |     |   |   |
| 18           | 1    | 119305-59120 | RETAINER, PIPE       | 1    | 1   |     |     |     |     |   |   |
| 21           | 2    | 129150-59131 | BOLT, M4X14          | 1    | 1   |     |     |     |     |   |   |
| 22           | 1    | 129150-59120 | RETAINER, PIPE       | 1    | 1   |     |     |     |     |   |   |
| 25           | 2    | 129150-59131 | BOLT, M4X14          | 2    | 2   |     |     |     |     |   |   |
| 27           | 2    | 119813-59811 | PIPE ASSY, INJECTION | 1    |     |     |     |     |     |   |   |
| 27-1         | 2    | 119813-59812 | PIPE ASSY, INJECTION | 1    | 1   |     |     |     |     |   | R |
| (A=E19093)   |      |              |                      |      |     |     |     |     |     |   |   |
| 28           | 2    | 119813-59821 | PIPE ASSY, INJECTION | 1    | 1   |     |     |     |     |   |   |
| 29           | 2    | 119813-59831 | PIPE ASSY, INJECTION | 1    | 1   |     |     |     |     |   |   |
| 30           | 1    | 104200-59170 | GASKET, 12           | 2    | 2   |     |     |     |     |   |   |
| 31           | 1    | 129495-59300 | BOLT, PIPE JOINT     | 1    | 1   |     |     |     |     |   |   |
| 32           | 1    | 171335-59530 | PIPE ASSY, FUEL      | 1    | 1   |     |     |     |     |   |   |
| 39           | 1    | 129491-59540 | BOLT, PIPE JOINT M6  | 3    | 3   |     |     |     |     |   |   |
| 40           | 1    | 171335-59551 | PIPE ASSY, RETURN    | 1    | 1   |     |     |     |     |   |   |
| 46           | 1    | 129100-59951 | VALVE ASSY, CHECK    | 1    | 1   |     |     |     |     |   |   |
| 54           | 1    | 23414-060000 | GASKET, 6X1.0        | 6    |     |     |     |     |     |   |   |
| 54-1         | 1    | 22190-060002 | WASHER, SEAL 6       | 6    | 6   |     |     |     |     |   | N |
| (A=E19093)   |      |              |                      |      |     |     |     |     |     |   |   |
| 55           | 1    | 23414-080012 | GASKET, 8X1.0        | 2    | 2   |     |     |     |     |   |   |
| 56           | 1    | 23414-140000 | GASKET, 14X1.0       | 2    | 2   |     |     |     |     |   |   |
| 57           | 1    | 23851-030000 | JOINT BOLT 3         | 1    |     |     |     |     |     |   |   |
| 57-1         | 1    | 23857-030000 | BOLT, JOINT 3        | 1    | 1   |     |     |     |     |   | R |
| (A=FROM 1ST) |      |              |                      |      |     |     |     |     |     |   |   |
| 58           | 1    | 43551-001451 | UNION 8(M)           | 1    | 1   |     |     |     |     |   |   |

### 13.FUEL FILTER

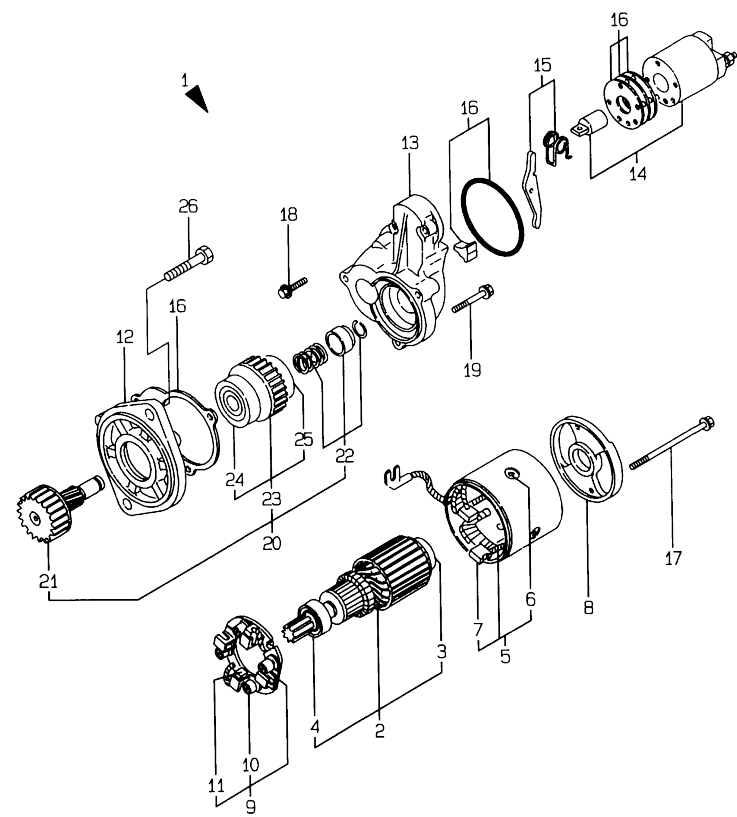


| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 129470-55601 | FILTER ASSY, FUEL    | 1    | 1   |     |     |     |     |   |   |
| 3   | 2    | 129470-55701 | STRAINER ASSY, FUEL  | 1    | 1   |     |     |     |     |   |   |
| 4   | 1    | 119789-55610 | BRACKET, STRAINER    | 1    | 1   |     |     |     |     |   |   |
| 5   | 1    | 26106-080162 | BOLT, M8X 16 PLATED  | 2    | 2   |     |     |     |     |   |   |
| 6   | 1    | 26106-100302 | BOLT, M10X 30 PLATED | 2    | 2   |     |     |     |     |   |   |
| 7   | 1    | 105582-59150 | BOLT, PIPE JOINT     | 1    | 1   |     |     |     |     |   |   |
| 8   | 1    | 119889-59510 | PIPE ASSY, FUEL      | 1    | 1   |     |     |     |     |   |   |
| 9   | 1    | 171335-59521 | PIPE ASSY, FUEL      | 1    | 1   |     |     |     |     |   |   |
| 12  | 1    | 23414-080012 | GASKET, 8X1.0        | 2    | 2   |     |     |     |     |   |   |
| 13  | 1    | 23414-120000 | GASKET, 12X1.0       | 4    | 4   |     |     |     |     |   |   |
| 14  | 1    | 23414-120000 | GASKET, 12X1.0       | 2    | 2   |     |     |     |     |   |   |
| 15  | 1    | 23857-060000 | BOLT, JOINT 6        | 1    | 1   |     |     |     |     |   |   |
| 16  | 1    | 23857-060000 | BOLT, JOINT 6        | 2    | 2   |     |     |     |     |   |   |
| 17  | 1    | 105582-59150 | BOLT, PIPE JOINT     | 1    | 1   |     |     |     |     |   |   |
| 18  | 1    | 23414-080012 | GASKET, 8X1.0        | 2    | 2   |     |     |     |     |   |   |

N:Old  $\xleftrightarrow[\text{No}]{\text{Yes}}$  New, Q:Old  $\xleftrightarrow[\text{Yes}]{\text{No}}$  New, R:Old  $\xleftrightarrow[\text{Yes}]{\text{No}}$  New, S:Old  $\xleftrightarrow[\text{No}]{\text{Yes}}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
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Fig.14. STARTING MOTOR

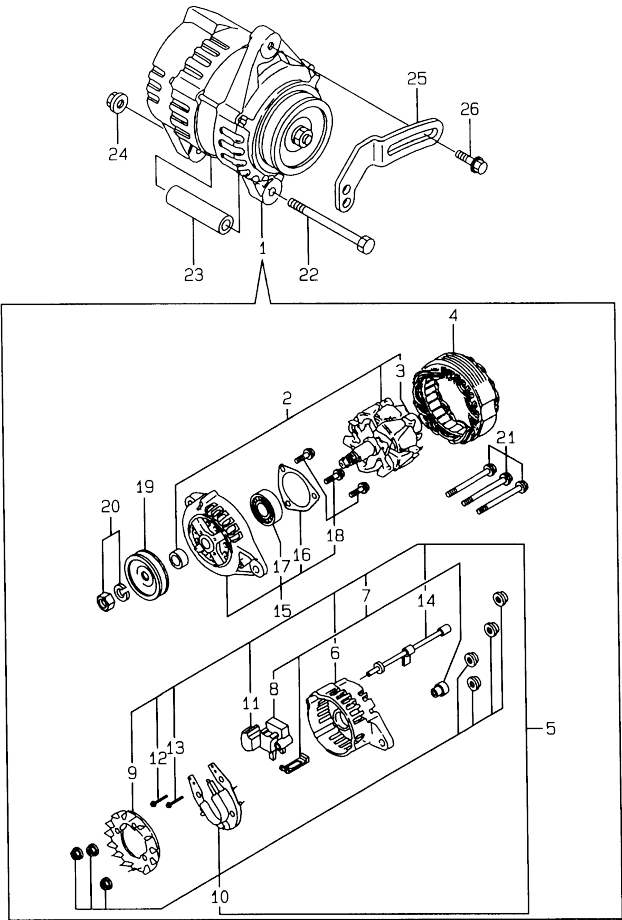
14.STARTING MOTOR



| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 124976-77011 | STARTER, S114-349A   | 1    | 1   |     |     |     |     |   |   |
| 2   | 2    | X211451007   | ARMATURE ASSY        | 1    | 1   |     |     |     |     |   |   |
| 3   | 3    | X211415502   | BEARING, BALL        | 1    | 1   |     |     |     |     |   |   |
| 4   | 3    | X211425502   | BEARING, BALL        | 1    | 1   |     |     |     |     |   |   |
| 5   | 2    | X211472106   | COIL ASSY, FIELD     | 1    | 1   |     |     |     |     |   |   |
| 6   | 3    | X21148215    | SCREW, POLE CORE     | 4    | 4   |     |     |     |     |   |   |
| 7   | 3    | X21143315    | BRUSH (+)            | 2    | 2   |     |     |     |     |   |   |
| 8   | 2    | X211483003   | COVER                | 1    | 1   |     |     |     |     |   |   |
| 9   | 2    | X211429007   | HOLDER ASSY, BRUSH   | 1    | 1   |     |     |     |     |   |   |
| 10  | 3    | X21148314    | SPRING, BRUSH        | 4    | 4   |     |     |     |     |   |   |
| 11  | 3    | X211459002   | BRUSH (-)            | 2    | 2   |     |     |     |     |   |   |
| 12  | 2    | X211476504   | HOUSING ASSY, GEAR   | 1    | 1   |     |     |     |     |   |   |
| 13  | 2    | X211414501   | HOUSING, CENTER      | 1    | 1   |     |     |     |     |   |   |
| 14  | 2    | X211447007   | SWITCH, MAGNETIC     | 1    | 1   |     |     |     |     |   |   |
| 15  | 2    | X21146012    | LEVER, SHIFT         | 1    | 1   |     |     |     |     |   |   |
| 16  | 2    | X211448004   | COVER KIT            | 1    | 1   |     |     |     |     |   |   |
| 17  | 2    | X211468005   | BOLT, THROUGH        | 2    | 2   |     |     |     |     |   |   |
| 18  | 2    | X21145866    | BOLT                 | 2    | 2   |     |     |     |     |   |   |
| 19  | 2    | X21142867    | BOLT                 | 3    | 3   |     |     |     |     |   |   |
| 20  | 2    | X211415505   | CLUTCH ASSY          | 1    | 1   |     |     |     |     |   |   |
| 21  | 3    | X211495009   | SHAFT                | 1    | 1   |     |     |     |     |   |   |
| 22  | 3    | X211429006   | STOPPER SET          | 1    | 1   |     |     |     |     |   |   |
| 23  | 3    | X211425505   | CLUTCH ASSY          | 1    | 1   |     |     |     |     |   |   |
| 24  | 4    | X211435502   | BALL BEARING         | 1    | 1   |     |     |     |     |   |   |
| 25  | 4    | X211445502   | BALL BEARING         | 1    | 1   |     |     |     |     |   |   |
| 26  | 1    | 26116-120252 | BOLT, M12X 25 PLATED | 2    | 2   |     |     |     |     |   |   |

Fig.15. GENERATOR

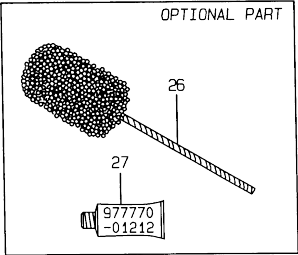
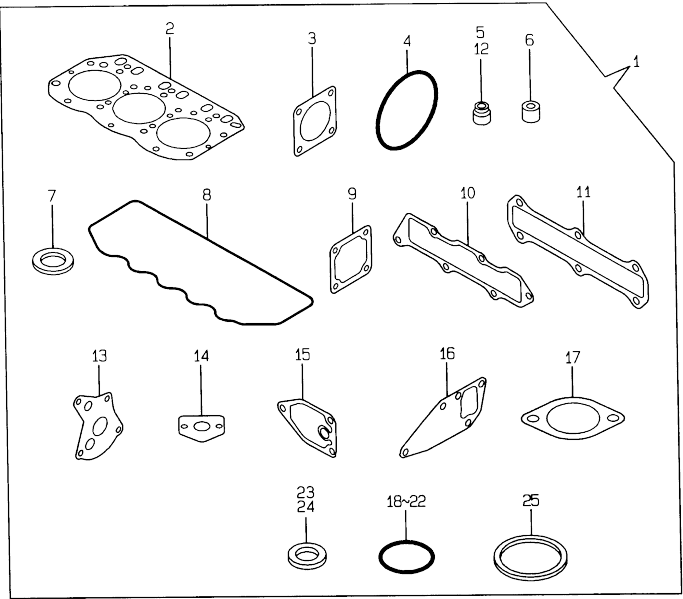
15. GENERATOR



| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 119836-77200 | GENERATOR            | 1    | 1   |     |     |     |     |   |   |
| 2          | 2    | 119836-77700 | ROTOR ASSY           | 1    | 1   |     |     |     |     |   |   |
| 3          | 3    | 119836-77850 | BALL BEARING         | 1    | 1   |     |     |     |     |   |   |
| 4          | 2    | 119836-77710 | STATOR ASSY          | 1    | 1   |     |     |     |     |   |   |
| 5          | 2    | 119836-77721 | COVER ASSY, REAR     | 1    | 1   |     |     |     |     |   |   |
| 6          | 3    | 119836-77730 | COVER, REAR          | 1    | 1   |     |     |     |     |   |   |
| 7          | 3    | 119836-77741 | BRUSH ASSY,REGULATOR | 1    | 1   |     |     |     |     |   |   |
| 8          | 4    | 119836-77750 | BRUSH ASSY           | 1    | 1   |     |     |     |     |   |   |
| 9          | 3    | 119836-77760 | GUIDE, FAN SIDE      | 1    | 1   |     |     |     |     |   |   |
| 10         | 3    | 119836-77770 | DIODE ASSY           | 1    | 1   |     |     |     |     |   |   |
| 11         | 3    | 119836-77780 | CONDENSER            | 1    | 1   |     |     |     |     |   |   |
| 12         | 3    | 119836-77871 | BOLT (1)             | 1    | 1   |     |     |     |     |   |   |
| 13         | 3    | 119836-77880 | BOLT (2)             | 1    | 1   |     |     |     |     |   |   |
| 14         | 3    | 119836-77890 | WIRE ASSY, LEAD      | 1    | 1   |     |     |     |     |   |   |
| 15         | 2    | 119836-77790 | COVER ASSY, FRONT    | 1    | 1   |     |     |     |     |   |   |
| 16         | 3    | 119836-77800 | RETAINER, BEARING    | 1    | 1   |     |     |     |     |   |   |
| 17         | 3    | 119836-77840 | BALL BEARING         | 1    | 1   |     |     |     |     |   |   |
| 18         | 3    | 119836-77860 | SCREW KID            | 1    | 1   |     |     |     |     |   |   |
| 19         | 2    | 119836-77810 | PULLEY               | 1    | 1   |     |     |     |     |   |   |
| 20         | 2    | 119836-77820 | NUT ASSY, PULLEY     | 1    | 1   |     |     |     |     |   |   |
| 21         | 2    | 119836-77830 | BOLT, THROUGH        | 1    | 1   |     |     |     |     |   |   |
| 22         | 1    | 129136-77250 | BOLT M 8X105         | 1    |     |     |     |     |     |   |   |
| 22-1       | 1    | 129136-77251 | BOLT, M8X110         | 1    | 1   |     |     |     |     |   | N |
| (A=E18012) |      |              |                      |      |     |     |     |     |     |   |   |
| 23         | 1    | 119820-77340 | PIECE, DISTANCE      | 1    | 1   |     |     |     |     |   |   |
| 24         | 1    | 26366-080002 | NUT, M8              | 1    |     |     |     |     |     |   |   |
| 24-1       | 1    | 129612-77260 | NUT, ALTERNATOR      | 1    | 1   |     |     |     |     |   | R |
| (A=EXXX)   |      |              |                      |      |     |     |     |     |     |   |   |
| 25         | 1    | 119810-77330 | ADJUSTER             | 1    | 1   |     |     |     |     |   |   |
| 26         | 1    | 26014-080252 | BOLT, M8X 25         | 1    |     |     |     |     |     |   |   |
| 26-1       | 1    | 119810-77340 | BOLT, ADJUSTER       | 1    | 1   |     |     |     |     |   | N |
| (A=E18012) |      |              |                      |      |     |     |     |     |     |   |   |
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Fig.16. GASKET SET

16.GASKET SET



| No.        | Lev. | Parts No.    | Description        | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|--------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                    | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 719818-92601 | GASKET SET         | 1    |     |     |     |     |     |   | 1 |
| 1-1        | 1    | 719818-92602 | GASKET SET         | 1    | 1   |     |     |     |     | N | 1 |
| (A=E19093) |      |              |                    |      |     |     |     |     |     |   |   |
| 2          | 2    | 119818-01330 | GASKET, HEAD       | 1    | 1   |     |     |     |     |   |   |
| 3          | 2    | 124240-01883 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 4          | 2    | 121850-51960 | O-RING             | 1    | 1   |     |     |     |     |   |   |
| 5          | 2    | 124160-11340 | SEAL, VALVE STEM   | 3    | 3   |     |     |     |     |   |   |
| 6          | 2    | 119625-11871 | PROTECTOR, NOZZLE  | 3    |     |     |     |     |     |   |   |
| 6-1        | 2    | 119625-11870 | PROTECTOR, NOZZLE  | 3    | 3   |     |     |     |     | N |   |
| (A=E19093) |      |              |                    |      |     |     |     |     |     |   |   |
| 7          | 2    | 119625-11880 | SEAT, NOZZLE       | 3    | 3   |     |     |     |     |   |   |
| 8          | 2    | 119865-11310 | GASKET, BONNET     | 1    | 1   |     |     |     |     |   |   |
| 9          | 2    | 129150-77511 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 10         | 2    | 119813-12110 | GASKET, MANIFOLD   | 1    | 1   |     |     |     |     |   |   |
| 11         | 2    | 119813-13110 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 12         | 2    | 124950-11340 | SEAL, VALVE STEM   | 3    | 3   |     |     |     |     |   |   |
| 13         | 2    | 129150-32020 | GASKET, PUMP       | 1    | 1   |     |     |     |     |   |   |
| 14         | 2    | 129150-35041 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 15         | 2    | 129150-35111 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 16         | 2    | 129150-42020 | GASKET, WATER PUMP | 1    |     |     |     |     |     |   |   |
| 16-1       | 2    | 129486-42050 | GASKET, WATER PUMP | 1    | 1   |     |     |     |     | N |   |
| (A=E19093) |      |              |                    |      |     |     |     |     |     |   |   |
| 17         | 2    | 129795-49551 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 18         | 2    | 24311-000120 | O-RING, 1AP12.0    | 3    | 3   |     |     |     |     |   |   |
| 19         | 2    | 24311-000160 | O-RING, 1AP16.0    | 3    | 3   |     |     |     |     |   |   |
| 20         | 2    | 24311-000320 | O-RING, 1AP32.0    | 1    | 1   |     |     |     |     |   |   |
| 21         | 2    | 24341-000500 | O-RING, 1AS50.0    | 1    | 1   |     |     |     |     |   |   |
| 22         | 2    | 24341-000240 | O-RING, 1AS24.0    | 1    | 1   |     |     |     |     |   |   |
| 23         | 2    | 23414-100000 | GASKET, 10X1.0     | 2    |     |     |     |     |     |   |   |
| 23-1       | 2    | 22190-100002 | WASHER, SEAL 10    | 2    | 2   |     |     |     |     | N |   |
| (A=E19093) |      |              |                    |      |     |     |     |     |     |   |   |
| 24         | 2    | 124465-44950 | GASKET, 16         | 2    | 2   |     |     |     |     |   |   |
| 25         | 2    | 129150-49811 | GASKET, THERMOSTAT | 1    | 1   |     |     |     |     |   |   |
| 26         | 1    | 129400-92420 | HONE               | 1    | 1   |     |     |     |     |   | 1 |
| 27         | 1    | 977770-01212 | GASKET, LIQUID     | 1    | 1   |     |     |     |     |   | 1 |

Remarks  
(1) OPTIONAL PART.

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| 104200-59170 | 12       | 30       |
| 104211-11180 | 4        | 14       |
| 104211-11370 | 4        | 18       |
| 105582-59150 | 13       | 7        |
|              | 17       |          |
| 114250-39450 | 8        | 36 -1    |
| 114250-53080 | 12       | 5        |
| 114250-53120 | 12       | 7        |
| 114250-53130 | 12       | 8        |
| 114250-53140 | 12       | 9        |
| 114250-53210 | 12       | 10       |
| 114250-53400 | 12       | 11       |
| 119131-18320 | 5        | 11 -1    |
| 119305-59120 | 12       | 18       |
| 119600-34800 | 8        | 39       |
| 119620-01750 | 3        | 3        |
| 119620-02020 | 1        | 12       |
| 119620-49290 | 9        | 26       |
| 119621-66610 | 11       | 81       |
| 119621-66710 | 11       | 83       |
| 119625-11870 | 4        | 32 -1    |
|              | 16       | 6 -1     |
| 119625-11871 | 4        | 32       |
|              | 16       | 6        |
| 119625-11880 | 4        | 33       |
|              | 16       | 7        |
| 119640-01640 | 3        | 8        |
| 119653-77950 | 11       | 78       |
| 119660-61901 | 11       | 56       |
| 119685-61940 | 11       | 73       |
| 119685-61950 | 11       | 58       |
| 119789-55610 | 13       | 4        |
| 119810-01200 | 1        | 21       |
| 119810-01730 | 3        | 6        |
| 119810-01780 | 3        | 16       |
| 119810-01790 | 3        | 7        |
| 119810-02800 | 1        | 15       |
| 119810-02870 | 1        | 23       |
| 119810-02930 | 1        | 18       |
| 119810-02940 | 1        | 26       |
| 119810-11100 | 4        | 11       |
| 119810-11110 | 4        | 12       |
| 119810-11120 | 4        | 13       |
| 119810-11240 | 4        | 21       |
| 119810-14400 | 6        | 2        |
| 119810-14580 | 6        | 3        |
| 119810-23200 | 7        | 27       |
| 119810-23600 | 7        | 28       |
| 119810-23610 | 7        | 30       |
| 119810-23910 | 7        | 26       |

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| 119810-35401 | 8        | 16       |
| 119810-39200 | 8        | 29       |
| 119810-42001 | 9        | 1        |
| 119810-51040 | 10       | 5        |
| 119810-77330 | 15       | 25       |
| 119810-77340 | 15       | 26 -1    |
| 119812-11700 | 4        | 4        |
| 119813-12100 | 5        | 1        |
| 119813-12110 | 5        | 2        |
|              | 16       | 10       |
| 119813-13100 | 5        | 7        |
| 119813-13110 | 5        | 8        |
|              | 16       | 11       |
| 119813-21000 | 7        | 1        |
| 119813-22300 | 7        | 21       |
| 119813-59811 | 12       | 27       |
| 119813-59812 | 12       | 27 -1    |
| 119813-59821 | 12       | 28       |
| 119813-59831 | 12       | 29       |
| 119818-01330 | 1        | 22       |
|              | 16       | 2        |
| 119818-22080 | 7        | 15       |
| 119818-22500 | 7        | 17       |
| 119818-22900 | 7        | 32       |
| 119818-22930 | 7        | 32 A     |
| 119818-22950 | 7        | 34       |
| 119818-53000 | 12       | 2        |
| 119820-77340 | 15       | 23       |
| 119836-77200 | 15       | 1        |
| 119836-77700 | 15       | 2        |
| 119836-77710 | 15       | 4        |
| 119836-77721 | 15       | 5        |
| 119836-77730 | 15       | 6        |
| 119836-77741 | 15       | 7        |
| 119836-77750 | 15       | 8        |
| 119836-77760 | 15       | 9        |
| 119836-77770 | 15       | 10       |
| 119836-77780 | 15       | 11       |
| 119836-77790 | 15       | 15       |
| 119836-77800 | 15       | 16       |
| 119836-77810 | 15       | 19       |
| 119836-77820 | 15       | 20       |
| 119836-77830 | 15       | 21       |
| 119836-77840 | 15       | 17       |
| 119836-77850 | 15       | 3        |
| 119836-77860 | 15       | 18       |
| 119836-77871 | 15       | 12       |
| 119836-77880 | 15       | 13       |
| 119836-77890 | 15       | 14       |
| 119843-61540 | 11       | 46       |

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| 119865-11210 | 4        | 20       |
| 119865-11310 | 4        | 44       |
|              | 16       | 8        |
| 119865-21600 | 7        | 14       |
| 119888-01600 | 3        | 2        |
| 119888-21590 | 7        | 12       |
| 119889-59510 | 13       | 8        |
| 119923-22080 | 7        | 15 A     |
| 119988-61070 | 11       | 6        |
| 119988-61400 | 11       | 17       |
| 119988-61460 | 11       | 23       |
| 121023-01550 | 2        | 24       |
| 121111-21501 | 7        | 11       |
| 121250-44901 | 9        | 22       |
| 121450-01560 | 2        | 5        |
| 121450-42450 | 9        | 24       |
| 121520-34810 | 8        | 14       |
| 121850-21680 | 7        | 10       |
| 121850-51960 | 2        | 12       |
|              | 16       | 4        |
| 122117-51560 | 10       | 48       |
| 122710-51090 | 10       | 8        |
| 124060-11800 | 4        | 7        |
| 124160-01751 | 2        | 6        |
|              | 4        | 49       |
| 124160-01910 | 1        | 4        |
|              | 14       | -1       |
| 124160-11340 | 4        | 16       |
|              | 16       | 5        |
| 124160-11360 | 4        | 48       |
| 124160-39140 | 8        | 28       |
| 124160-39450 | 8        | 36       |
| 124240-01871 | 2        | 7        |
| 124240-01883 | 2        | 8        |
|              | 16       | 3        |
| 124465-44950 | 9        | 23       |
|              | 16       | 24       |
| 124550-51350 | 10       | 30       |
| 124550-51370 | 10       | 31       |
| 124550-59820 | 8        | 33       |
| 124550-59830 | 8        | 32 A     |
| 124574-44761 | 9        | 30       |
| 124701-11911 | 5        | 13       |
| 124722-42290 | 9        | 17       |
| 124736-07900 | 4        | 2        |
| 124950-11340 | 4        | 17       |
|              | 16       | 12       |
| 124950-51190 | 10       | 15       |
| 124976-77011 | 14       | 1        |
| 128170-51300 | 10       | 25       |

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| 129001-01250 | 1        | 7 -1     |
| 129001-32001 | 8        | 1        |
| 129001-35300 | 8        | 24       |
| 129001-91840 | 2        | 20 -1    |
| 129052-61060 | 11       | 5        |
| 129052-61390 | 11       | 30       |
| 129100-01580 | 3        | 1        |
|              |          | 13       |
|              | 7        | 2        |
| 129100-25061 | 6        | 9        |
| 129100-59951 | 12       | 46       |
| 129108-51100 | 10       | 9        |
| 129110-44740 | 9        | 29       |
| 129116-61051 | 11       | 4        |
| 129120-77501 | 5        | 4        |
| 129136-77250 | 15       | 22       |
| 129136-77251 | 15       | 22 -1    |
| 129150-02450 | 6        | 4        |
| 129150-03020 | 4        | 40       |
| 129150-03070 | 4        | 41       |
| 129150-03080 | 4        | 42       |
| 129150-03090 | 4        | 1        |
| 129150-03100 | 2        | 10       |
| 129150-11230 | 4        | 28       |
| 129150-11280 | 4        | 26       |
| 129150-11750 | 4        | 30       |
| 129150-14101 | 6        | 6        |
| 129150-14200 | 6        | 1        |
| 129150-21200 | 7        | 4        |
| 129150-25101 | 6        | 10       |
| 129150-25301 | 6        | 18       |
| 129150-25900 | 6        | 15       |
| 129150-25920 | 6        | 13       |
| 129150-25931 | 6        | 19       |
| 129150-32020 | 8        | 37       |
|              | 16       | 13       |
| 129150-35041 | 8        | 15       |
|              | 16       | 14       |
| 129150-35101 | 8        | 21       |
| 129150-35111 | 8        | 22       |
|              | 16       | 15       |
| 129150-35151 | 8        | 23       |
| 129150-35350 | 8        | 25       |
| 129150-42020 | 9        | 14       |
|              | 16       | 16       |
| 129150-42320 | 9        | 11       |
| 129150-49811 | 9        | 32       |
|              | 16       | 25       |
| 129150-59120 | 12       | 22       |
| 129150-59131 | 12       | 21       |

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| 129150-59131 | 12       | 25       |
| 129150-77511 | 5        | 5        |
|              | 16       | 9        |
| 129155-11260 | 4        | 24       |
| 129155-11270 | 4        | 25       |
| 129155-49800 | 9        | 31       |
| 129155-51020 | 10       | 4        |
| 129155-51050 | 10       | 6        |
| 129155-51060 | 10       | 7        |
| 129155-51140 | 10       | 12       |
| 129155-51180 | 10       | 14       |
| 129155-51200 | 10       | 16       |
| 129155-51270 | 10       | 23       |
| 129155-51280 | 10       | 24       |
|              | 11       | 2        |
| 129155-51320 | 10       | 28       |
| 129155-51340 | 10       | 29       |
| 129155-51370 | 10       | 32       |
| 129155-51380 | 10       | 33       |
| 129155-51390 | 10       | 34       |
| 129155-51400 | 10       | 35       |
| 129155-51410 | 10       | 36       |
| 129155-51420 | 10       | 37       |
| 129155-51450 | 10       | 38       |
| 129155-51500 | 10       | 43       |
| 129155-51521 | 10       | 44       |
| 129155-51530 | 10       | 45       |
| 129155-51540 | 10       | 46       |
| 129155-51550 | 10       | 47       |
| 129155-51570 | 10       | 50       |
| 129155-51580 | 10       | 51       |
| 129155-51591 | 10       | 52       |
| 129155-51600 | 10       | 53       |
| 129155-51700 | 10       | 72       |
| 129155-51701 | 10       | 72 -1    |
| 129155-51710 | 10       | 73       |
| 129155-51750 | 10       | 74       |
| 129155-51751 | 10       | 74 -1    |
| 129155-51760 | 10       | 75       |
| 129155-51790 | 10       | 76       |
| 129155-51930 | 10       | 78       |
| 129155-51940 | 10       | 79       |
| 129155-52050 | 10       | 92       |
| 129155-61120 | 11       | 7        |
| 129155-61130 | 11       | 8        |
| 129155-61140 | 11       | 9        |
| 129155-61341 | 11       | 14       |
| 129155-61350 | 11       | 15       |
| 129155-61360 | 11       | 16       |
| 129155-61430 | 11       | 19       |

| Parts No.    | Fig. No. | Ref. No. |
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| 129155-61460 | 11       | 24       |
| 129155-61470 | 11       | 79       |
| 129155-61480 | 11       | 25       |
| 129155-61830 | 11       | 55       |
| 129155-61950 | 11       | 57       |
| 129156-51910 | 10       | 77       |
| 129208-51060 | 10       | 7 A      |
| 129208-54500 | 10       | 89 A     |
| 129350-49530 | 9        | 20       |
| 129400-01520 | 2        | 4        |
| 129400-92420 | 16       | 26       |
| 129412-61500 | 11       | 31       |
| 129470-55601 | 13       | 1        |
| 129470-55701 | 13       | 3        |
| 129477-61710 | 11       | 77       |
| 129486-01670 | 3        | 17 -1    |
| 129486-42050 | 9        | 14 -1    |
|              | 16       | 16 -1    |
| 129491-52100 | 10       | 93       |
| 129491-59540 | 12       | 39       |
| 129495-59300 | 12       | 31       |
| 129500-61650 | 11       | 76       |
| 129550-21650 | 7        | 8        |
| 129550-42350 | 9        | 18       |
| 129612-77260 | 15       | 24 -1    |
| 129792-22400 | 7        | 22       |
| 129795-01800 | 2        | 3        |
| 129795-01950 | 2        | 9        |
| 129795-02411 | 1        | 13       |
| 129795-21661 | 7        | 9        |
| 129795-49551 | 9        | 21       |
|              | 16       | 17       |
| 158552-61900 | 11       | 66 -1    |
| 171051-01921 | 1        | 5        |
| 171335-59521 | 13       | 9        |
| 171335-59530 | 12       | 32       |
| 171335-59551 | 12       | 40       |
| 171488-61200 | 11       | 10       |
| 171488-61440 | 11       | 75       |
| 174307-51170 | 10       | 13       |
| 174307-51560 | 10       | 49       |
| 174307-51700 | 11       | 32       |
| 194990-22050 | 5        | 9        |
| 22117-040000 | 11       | 59       |
| 22190-060002 | 11       | 60       |
|              | 12       | 54 -1    |
| 22190-080002 | 2        | 11       |
|              | 22       |          |
|              | 8        | 33 A     |
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| 22190-080002 | 8        | 34 -1    |
| 22190-100002 | 8        | 35 -1    |
|              | 11       | 61       |
|              | 16       | 23 -1    |
| 22190-120002 | 11       | 62       |
| 22190-160002 | 10       | 89       |
| 22190-220002 | 3        | 10       |
| 22217-050000 | 10       | 80       |
| 22217-060000 | 10       | 81       |
| 22217-120000 | 6        | 16       |
|              | 10       | 89 C     |
| 22287-120000 | 11       | 63       |
| 22351-040010 | 7        | 7        |
| 22351-050010 | 10       | 82       |
| 22351-060012 | 4        | 19       |
| 22372-040000 | 11       | 64       |
| 22512-070140 | 6        | 7        |
|              | 7        | 5        |
| 23414-060000 | 12       | 54       |
| 23414-080012 | 12       | 55       |
|              | 13       | 12       |
|              |          | 18       |
| 23414-100000 | 8        | 35       |
|              | 16       | 23       |
| 23414-120000 | 13       | 13       |
|              |          | 14       |
| 23414-140000 | 12       | 56       |
| 23851-030000 | 12       | 57       |
| 23857-030000 | 12       | 57 -1    |
| 23857-060000 | 13       | 15       |
|              |          | 16       |
| 23871-010000 | 1        | 6        |
| 23871-030000 | 9        | 12       |
| 23876-010000 | 1        | 6 -1     |
| 23876-030000 | 9        | 12 -1    |
| 23887-100002 | 11       | 65       |
| 23887-120002 | 1        | 14       |
| 24101-063034 | 10       | 83       |
| 24311-000120 | 4        | 34       |
|              | 16       | 18       |
| 24311-000160 | 2        | 13       |
|              | 8        | 26       |
|              | 16       | 19       |
| 24311-000320 | 2        | 14       |
|              | 4        | 50       |
|              | 16       | 20       |
| 24341-000160 | 10       | 84       |
| 24341-000240 | 2        | 25       |
|              | 16       | 22       |
| 24341-000280 | 11       | 66       |

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| 24341-000500 | 4        | 46       |
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| 25132-003900 | 9        | 17 A     |
| 26014-060252 | 9        | 19       |
| 26014-080252 | 15       | 26       |
| 26022-050102 | 10       | 85       |
| 26022-050122 | 10       | 85 -1    |
| 26022-060162 | 10       | 86       |
| 26106-060102 | 11       | 67       |
|              |          | 68       |
| 26106-060122 | 2        | 26       |
| 26106-060142 | 11       | 69       |
| 26106-060162 | 2        | 26 -1    |
| 26106-060202 | 11       | 70       |
| 26106-080122 | 2        | 15       |
| 26106-080142 | 4        | 3        |
|              | 6        | 8 -1     |
| 26106-080162 | 2        | 16       |
|              |          | 23       |
|              | 3        | 11       |
|              | 4        | 47       |
|              | 6        | 8        |
|              | 13       | 5        |
| 26106-080202 | 2        | 17       |
|              | 8        | 27       |
|              | 9        | 25       |
| 26106-080222 | 9        | 25 -1    |
| 26106-080252 | 4        | 35       |
|              | 5        | 3        |
| 26106-080302 | 3        | 17       |
| 26106-080352 | 3        | 18       |
|              | 5        | 6        |
|              | 8        | 20       |
|              | 9        | 15       |
| 26106-080452 | 2        | 18       |
|              | 3        | 12       |
|              | 6        | 14       |
| 26106-080502 | 4        | 36       |
| 26106-080552 | 2        | 19       |
|              | 9        | 16       |
| 26106-080602 | 5        | 10       |
| 26106-080852 | 2        | 20       |
| 26106-100302 | 13       | 6        |
| 26116-050302 | 10       | 87       |
| 26116-120252 | 14       | 26       |
| 26206-100252 | 3        | 4        |
| 26206-100302 | 3        | 5        |
| 26216-060302 | 4        | 9        |
| 26216-080222 | 5        | 11       |
| 26216-080602 | 5        | 12       |

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| 26366-060002 | 4        | 37       |
| 26366-080002 | 2        | 21       |
|              | 5        | 9 -1     |
|              | 11       | 74       |
|              | 15       | 24       |
| 26450-060252 | 8        | 38       |
| 26716-060002 | 10       | 88       |
| 26716-120002 | 6        | 17       |
|              | 10       | 89 D     |
| 26756-060002 | 11       | 71       |
| 26776-120002 | 11       | 72       |
| 27231-500000 | 1        | 7        |
| 27241-120000 | 1        | 8        |
| 27241-300000 | 1        | 9        |
| 27241-400000 | 4        | 10       |
| 27310-070001 | 4        | 15       |
| 43551-001451 | 12       | 58       |
| 719810-01500 | 2        | 1        |
| 719810-01650 | 3        | 14       |
| 719810-11520 | 4        | 38       |
| 719810-11521 | 4        | 38 -1    |
| 719810-11660 | 4        | 27       |
| 719810-23100 | 7        | 23       |
| 719818-92601 | 16       | 1        |
| 719818-92602 | 16       | 1 -1     |
| 719822-01560 | 1        | 1        |
| 719989-51330 | 10       | 1        |
| 719989-51470 | 10       | 1 A      |
| 719989-53300 | 12       | 1        |
| 977770-01212 | 2        | 27       |
|              | 3        | 19       |
|              | 16       | 27       |
| X211414501   | 14       | 13       |
| X211415502   | 14       | 3        |
| X211415505   | 14       | 20       |
| X211425502   | 14       | 4        |
| X211425505   | 14       | 23       |
| X21142867    | 14       | 19       |
| X211429006   | 14       | 22       |
| X211429007   | 14       | 9        |
| X21143315    | 14       | 7        |
| X211435502   | 14       | 24       |
| X211445502   | 14       | 25       |
| X211447007   | 14       | 14       |
| X211448004   | 14       | 16       |
| X211451007   | 14       | 2        |
| X21145866    | 14       | 18       |
| X211459002   | 14       | 11       |
| X21146012    | 14       | 15       |

| Parts No.  | Fig. No. | Ref. No. |
|------------|----------|----------|
| X211468005 | 14       | 17       |
| X211472106 | 14       | 5        |
| X211476504 | 14       | 12       |
| X21148215  | 14       | 6        |
| X211483003 | 14       | 8        |
| X21148314  | 14       | 10       |
| X211495009 | 14       | 21       |

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