

0CV10-M68101EN

# PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A - EBE engine manufactured since June, 1999 & 3TNE78A - EBEE engine manufactured since October, 2000.

2. Parts catalog history

|             | Parts catalog No. | Published | Remarks            |
|-------------|-------------------|-----------|--------------------|
| 1st edition | 000Y00V6810       | 1999/ 9   | Disuse old edition |
| 1st revised | 000Y00V6811       | 2000/10   |                    |

3. Model name

| Column | Model name     | Manufactured | E/#     |
|--------|----------------|--------------|---------|
| (A)    | 3TNE78A - EBE  | 1999/ 6 ~    | 40552 ~ |
| (B)    | 3TNE78A - EBEE | 2000/10 ~    | 46658 ~ |

4. Each illustration corresponds to the parts list on the following page.

5. 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   |
|                                               |      | (A=E00185) (B=E00200)                                  |                     |     |     |     |     |     |     |
| 3                                             | 2    | 26022-060162                                           | SCREW M 6X 16       | 9   | 9   | 9   | 9   | 9   |     |
| 3-1                                           | 2    | 26022-060162                                           | SCREW M 6X 16       | 4   | 4   | 4   | 4   | 4   | K   |
|                                               |      | (A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156) |                     |     |     |     |     |     |     |
| 4                                             | 2    | 129470-51040                                           | CAMSHAFT            | 1   | 1   | 1   | 1   | 1   |     |
| 5                                             | 2    | 122710-51050                                           | BEARING, ROLLER     | 2   | 2   | 2   | 2   | 2   |     |
| 6                                             | 2    | 129470-51060                                           | RETAINER            | 1   | 1   | 1   | 1   | 1   |     |

Remarks

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

### ① Ref. No.

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

(Ex.) Illustration No.

List Ref No.

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

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

### ② Lev. (Level)

Level indication

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

1 ---- Main parts (Assembly parts)

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

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

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

### ③ Interchangeability Symbol

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

| Symbol | Interchangeability                        | Contents note                                                                              |
|--------|-------------------------------------------|--------------------------------------------------------------------------------------------|
| N      | Old $\xrightarrow{\text{Yes}}$ New<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

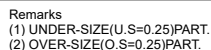
Figures or alphabets (symbols) are entered in the remarks column.

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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| 7.             | CAMSHAFT & DRIVING GEAR     |          |           |
| 8.             | CRANKSHAFT & PISTON         |          |           |
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| 12.            | GOVERNOR                    |          |           |
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| 14.            | FUEL LINE                   |          |           |
| 15.            | STARTING MOTOR              |          |           |
| 16.            | GENERATOR                   |          |           |
| 17.            | GASKET SET                  |          |           |

## 1. CYLINDER BLOCK

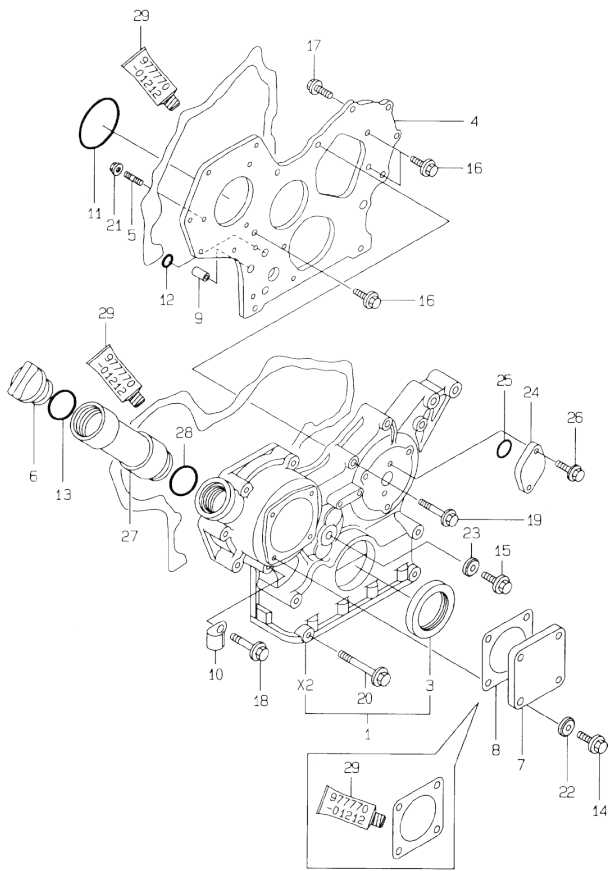


N:Old  $\xleftrightarrow{\text{Yes}} \xleftarrow{\text{No}}$  New, Q:Old  $\xleftrightarrow{\text{Yes}} \xleftarrow{\text{No}}$  New, R:Old  $\xleftrightarrow{\text{Yes}} \xleftarrow{\text{No}}$  New, S:Old  $\xleftrightarrow{\text{Yes}} \xleftarrow{\text{No}}$  New, W:Add, Z:Discontinued, F:Interchangeable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

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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    |     |     |     |     |     | Z |   |
| (A=E42634) |      |              |                     |      |     |     |     |     |     |   |   |
| 9          | 1    | 129795-01950 | PIPE, KNOCK L=18    | 2    | 2   |     |     |     |     |   |   |
| 10         | 1    | 129150-03100 | RETAINER, PIPE      | 1    | 1   |     |     |     |     |   |   |
| 11         | 1    | 121850-51960 | O-RING              | 1    | 1   |     |     |     |     |   |   |
| 12         | 1    | 24311-000160 | O-RING, 1AP16.0     | 2    | 2   |     |     |     |     |   |   |
| 13         | 1    | 24311-000320 | O-RING, 1AP32.0     | 1    | 1   |     |     |     |     |   |   |
| 14         | 1    | 26106-080122 | BOLT, M8X 12 PLATED | 4    | 4   |     |     |     |     |   |   |
| 15         | 1    | 26106-080162 | BOLT, M8X 16 PLATED | 1    | 1   |     |     |     |     |   |   |
| 16         | 1    | 26106-080162 | BOLT, M8X 16 PLATED | 3    | 3   |     |     |     |     |   |   |
| 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    | 129001-91840 | BOLT, M8X85         | 4    |     |     |     |     |     |   |   |
| 20-1       | 1    | 129001-91841 | BOLT, M8X85         | 4    | 4   |     |     |     |     | R |   |
| (A=E42634) |      |              |                     |      |     |     |     |     |     |   |   |
| 21         | 1    | 26366-080002 | NUT, M8             | 3    | 3   |     |     |     |     |   |   |
| 22         | 1    | 22190-080002 | WASHER, SEAL 6      | 4    | 4   |     |     |     |     |   |   |
| 23         | 1    | 22190-080002 | WASHER, SEAL 6      | 1    | 1   |     |     |     |     |   |   |
| 24         | 1    | 121023-01550 | COVER               | 1    | 1   |     |     |     |     |   |   |
| 25         | 1    | 24341-000240 | O-RING, 1AS24.0     | 1    | 1   |     |     |     |     |   |   |
| 26         | 1    | 26106-060162 | BOLT, M6X 16 PLATED | 2    | 2   |     |     |     |     |   |   |
| 27         | 1    | 171031-11741 | PIPE                | 1    | 1   |     |     |     |     |   |   |
| 28         | 1    | 24311-000320 | O-RING, 1AP32.0     | 1    | 1   |     |     |     |     |   |   |
| 29         | 1    | 977770-01212 | GASKET, LIQUID      | 1    | 1   |     |     |     |     |   | 1 |

Remarks

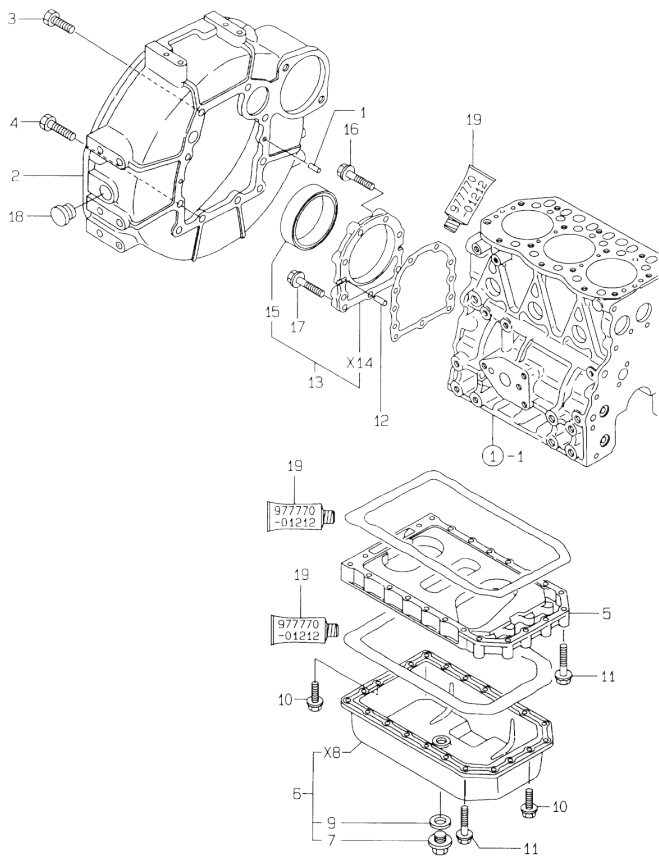
(1) OPTIONAL PART.

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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Fig.3. FLYWHEEL HOUSING & OIL SUMP

3.FLYWHEEL HOUSING & OIL SUMP



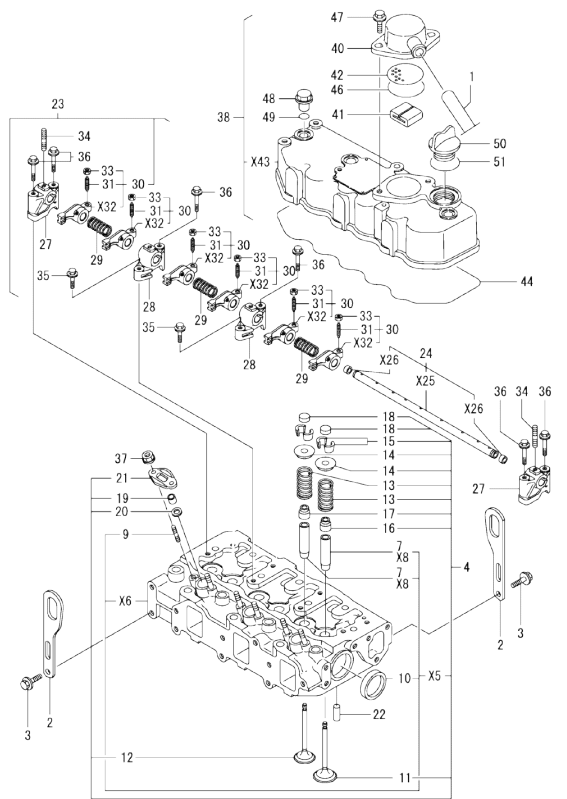
| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 129100-01580 | PIN, M8X16           | 2    | 2   |     |     |     |     |   |   |
| 2   | 1    | 129612-01600 | HOUSING, FLYWHEEL    | 1    | 1   |     |     |     |     |   |   |
| 3   | 1    | 26206-100252 | BOLT, M10X 25 PLATED | 6    | 6   |     |     |     |     |   |   |
| 4   | 1    | 26206-100302 | BOLT, M10X 30 PLATED | 4    | 4   |     |     |     |     |   |   |
| 5   | 1    | 119810-01730 | SPACER, OIL SUMP     | 1    | 1   |     |     |     |     |   |   |
| 6   | 1    | 119810-01790 | SUMP ASSY, OIL       | 1    | 1   |     |     |     |     |   |   |
| 7   | 2    | 119640-01640 | PLUG, DRAIN M22      | 1    | 1   |     |     |     |     |   |   |
| 9   | 2    | 22190-220002 | WASHER, SEAL 22      | 1    | 1   |     |     |     |     |   |   |
| 10  | 1    | 26106-080162 | BOLT, M8X 16 PLATED  | 6    | 6   |     |     |     |     |   |   |
| 11  | 1    | 26106-080452 | BOLT, M8X 45 PLATED  | 22   | 22  |     |     |     |     |   |   |
| 12  | 1    | 129100-01580 | PIN, M8X16           | 2    | 2   |     |     |     |     |   |   |
| 13  | 1    | 719810-01650 | CASE ASSY, OIL SEAL  | 1    | 1   |     |     |     |     |   |   |
| 15  | 2    | 119810-01780 | SEAL, 769310         | 1    | 1   |     |     |     |     |   |   |
| 16  | 1    | 129486-01670 | BOLT, M8X30          | 6    | 6   |     |     |     |     |   |   |
| 17  | 1    | 26106-080352 | BOLT, M8X 35 PLATED  | 3    | 3   |     |     |     |     |   |   |
| 18  | 1    | 119620-01750 | CAP                  | 1    | 1   |     |     |     |     |   |   |
| 19  | 1    | 977770-01212 | GASKET, LIQUID       | 1    | 1   |     |     |     |     |   | 1 |

Remarks  
(1) OPTIONAL PART.

N:Old  $\frac{YBS}{100}$  New, Q:Old  $\frac{R10}{100}$  New, R:Old  $\frac{YBS}{100}$  New, S:Old  $\frac{R10}{100}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
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Fig.4. CYLINDER HEAD & BONNET



X-MARK PARTS:NOT SOLD SEPARATELY.

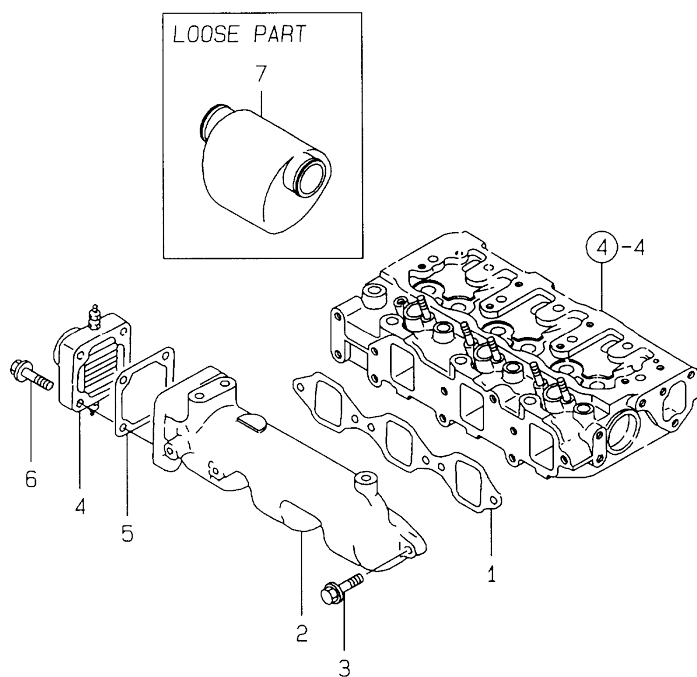
| No.        | Lev. | Parts No.    | Description         | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|---------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                     | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 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         | 2    | 119625-11870 | PROTECTOR, NOZZLE   | 3    | 3   |     |     |     |     |   |   |
| 20         | 2    | 119625-11880 | SEAT, NOZZLE        | 3    | 3   |     |     |     |     |   |   |
| 21         | 2    | 119625-11900 | RETAINER, NOZZLE    | 3    | 3   |     |     |     |     |   |   |
| 22         | 1    | 22351-060012 | PIN, SPRING 6.0X12  | 2    | 2   |     |     |     |     |   |   |
| 23         | 1    | 119865-11210 | SUPPORT ASSY        | 1    | 1   |     |     |     |     |   |   |
| 24         | 2    | 119810-11240 | SHAFT ASSY, ROCKER  | 1    | 1   |     |     |     |     |   |   |
| 27         | 2    | 129155-11260 | SUPPORT, ROCKER ARM | 2    | 2   |     |     |     |     |   |   |
| 28         | 2    | 129155-11270 | SUPPORT, ROCKER ARM | 2    | 2   |     |     |     |     |   |   |
| 29         | 2    | 129150-11280 | SPRING              | 3    | 3   |     |     |     |     |   |   |
| 30         | 2    | 719810-11660 | ARM ASSY, ROCKER    | 6    | 6   |     |     |     |     |   |   |
| 31         | 3    | 129150-11230 | SCREW, VALVE ADJUST | 6    | 6   |     |     |     |     |   |   |
| 33         | 3    | 129150-11750 | NUT, M8             | 6    | 6   |     |     |     |     |   |   |
| 34         | 2    | 26226-080182 | STUD, M8X 18        | 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    |     |     |     |     |     |   |   |
| 38-1       | 1    | 719810-11521 | BONNET ASSY, HEAD   | 1    | 1   |     |     |     |     |   | N |
| (A=E41684) |      |              |                     |      |     |     |     |     |     |   |   |
| 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    | 24311-000120 | O-RING, 1AP12.0     | 3    | 3   |     |     |     |     |   |   |
| 50         | 1    | 124160-01751 | COVER, FILLER       | 1    | 1   |     |     |     |     |   |   |
| 51         | 1    | 24311-000320 | O-RING, 1AP32.0     | 1    | 1   |     |     |     |     |   |   |

Remarks

(1) REPAIR PART.

N:Old  $\frac{Y10}{10}$  New, Q:Old  $\frac{H10}{10}$  New, R:Old  $\frac{Y10}{10}$  New, S:Old  $\frac{H10}{10}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
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## 5. SUCTION MANIFOLD



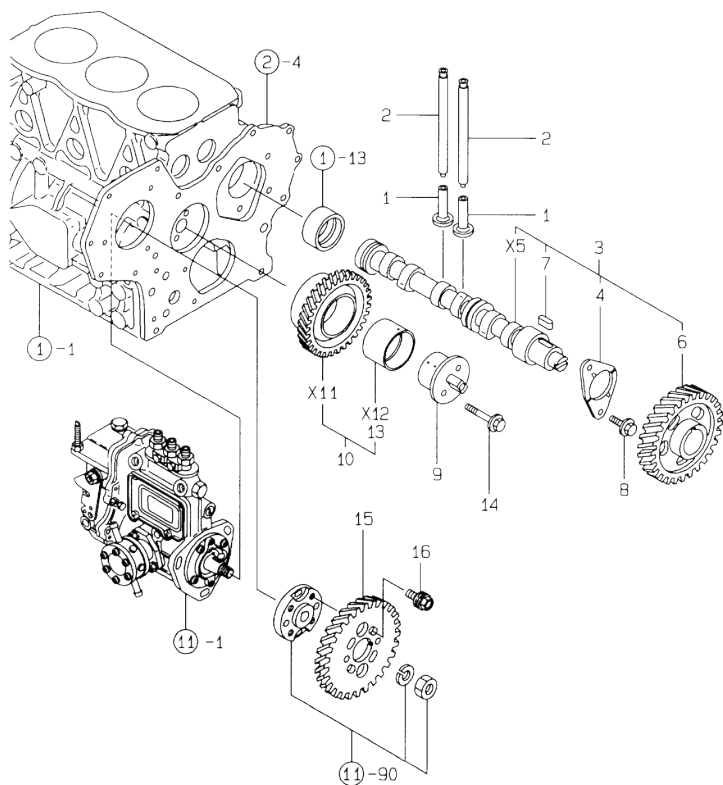
| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 119810-12111 | GASKET, MANIFOLD     | 1    | 1   |     |     |     |     |   |   |
| 2   | 1    | 171301-12701 | MANIFOLD, AIR INTAKE | 1    | 1   |     |     |     |     |   |   |
| 3   | 1    | 26106-080252 | BOLT, M8X 25 PLATED  | 4    | 4   |     |     |     |     |   |   |
| 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    | 121855-12060 | SILENCER ASSY        | 1    | 1   |     |     |     |     |   |   |

This diagram shows an exploded view of a mechanical assembly. The main components are labeled with numbers 1 through 7. Part 1 is the base housing, which has four mounting points labeled 4-4. Part 2 is a central bracket that fits into the housing. Part 3 is a long bolt that passes through the bracket and the housing. Part 4 is a small pin or washer. Part 5 is a circular flange with four mounting holes. Part 6 is a nut that fits onto the end of bolt 3. Part 7 is a shorter bolt that passes through the flange and the bracket. The diagram illustrates how these parts are assembled together.

| No. | Lev. | Parts No.    | Description         | (A)=3TNE78A-EBE<br>(B)=3TNE78A-EBEE<br>(C)= |     | (D)=<br>(E)=<br>(F)= |     |     |     | Q'ty | I | R |
|-----|------|--------------|---------------------|---------------------------------------------|-----|----------------------|-----|-----|-----|------|---|---|
|     |      |              |                     | (A)                                         | (B) | (C)                  | (D) | (E) | (F) |      |   |   |
| 1   | 1    | 119813-13100 | MANIFOLD, EXHAUST   | 1                                           | 1   |                      |     |     |     |      |   |   |
| 2   | 1    | 119813-13110 | GASKET              | 1                                           | 1   |                      |     |     |     |      |   |   |
| 3   | 1    | 26106-080602 | BOLT, M8X 60 PLATED | 4                                           | 4   |                      |     |     |     |      |   |   |
| 4   | 1    | 119131-18320 | STUD, M8X22         | 4                                           | 4   |                      |     |     |     |      |   |   |
| 5   | 1    | 124701-11911 | GASKET, SILENCER    | 1                                           | 1   |                      |     |     |     |      |   |   |
| 6   | 1    | 26366-080002 | NUT, M8             | 2                                           | 2   |                      |     |     |     |      |   |   |
| 7   | 1    | 26216-080602 | STUD, M8X 60        | 2                                           | 2   |                      |     |     |     |      |   |   |

Fig.7. CAMSHAFT & DRIVING GEAR

## 7. CAMSHAFT & DRIVING GEAR



Remarks  
(1) REPAIR PART.

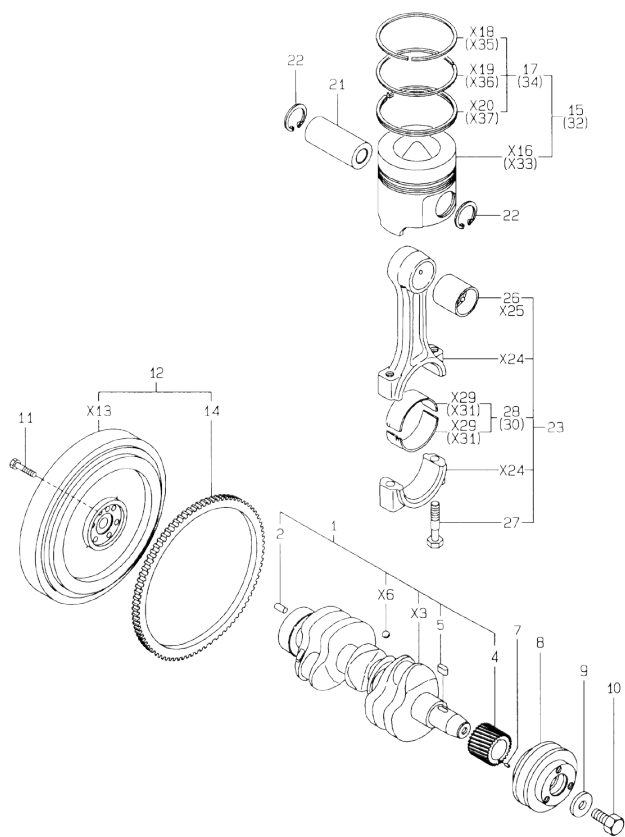
| No. | Lev. | Parts No.    | Description         | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|---------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                     | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 1    | 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    | 26106-080142 | BOLT, M8X 14 PLATED | 2    | 2   |     |     |     |     |   |   |
| 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   |     |     |     |     |   |   |
| 14  | 1    | 26106-080452 | BOLT, M8x 45 PLATED | 2    | 2   |     |     |     |     |   |   |
| 15  | 1    | 129150-25931 | GEAR, PUMP          | 1    | 1   |     |     |     |     |   |   |
| 16  | 1    | 129150-25301 | BOLT                | 4    | 4   |     |     |     |     |   |   |

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

OCV10-M68101

Fig.8. CRANKSHAFT & PISTON

8.CRANKSHAFT & PISTON



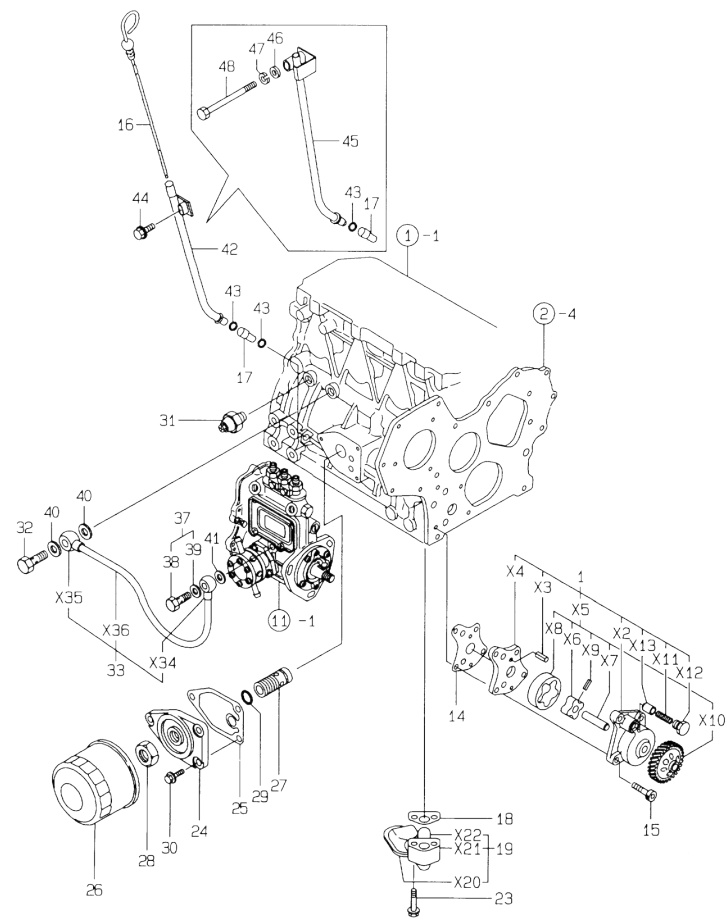
| No. | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|-----|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|     |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1   | 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    | 171301-21650 | 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    | 171301-21580 | FLYWHEEL ASSY        | 1    | 1   |     |     |     |     |   |   |
| 14  | 2    | 119865-21600 | GEAR, RING           | 1    | 1   |     |     |     |     |   |   |
| 15  | 1    | 119923-22080 | PISTON ASSY          | 3    | 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   |     |     |     |     |   | 2 |
| 32  | 1    | 119818-22930 | PISTON ASSY, 0.25 OS | 3    | 3   |     |     |     |     |   | 3 |
| 34  | 2    | 119818-22950 | RING SET, 0.25 OS    | 3    | 3   |     |     |     |     |   | 3 |

Remarks

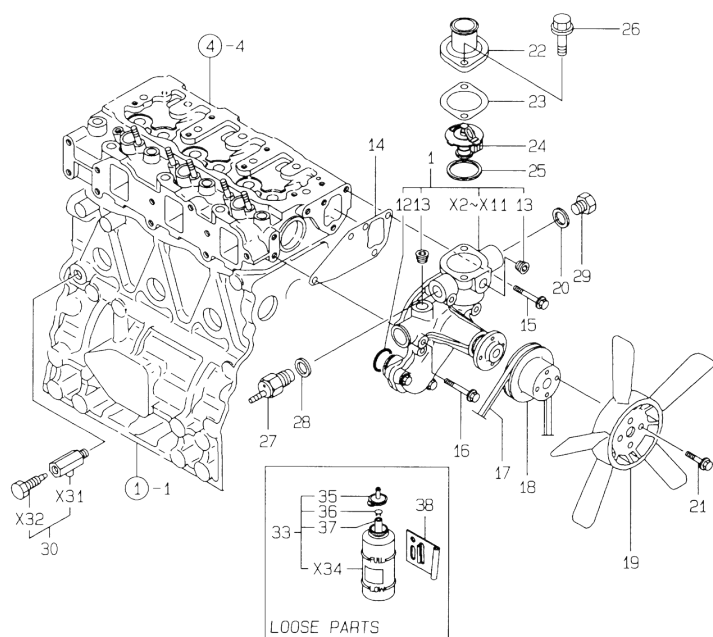
- (1) REPAIR PART.  
(2) UNDER-SIZE(U.S=0.25)PART.  
(3) OVER-SIZE(O.S=0.25)PART.

Fig.9. LUB.OIL SYSTEM

9.LUB.OIL SYSTEM



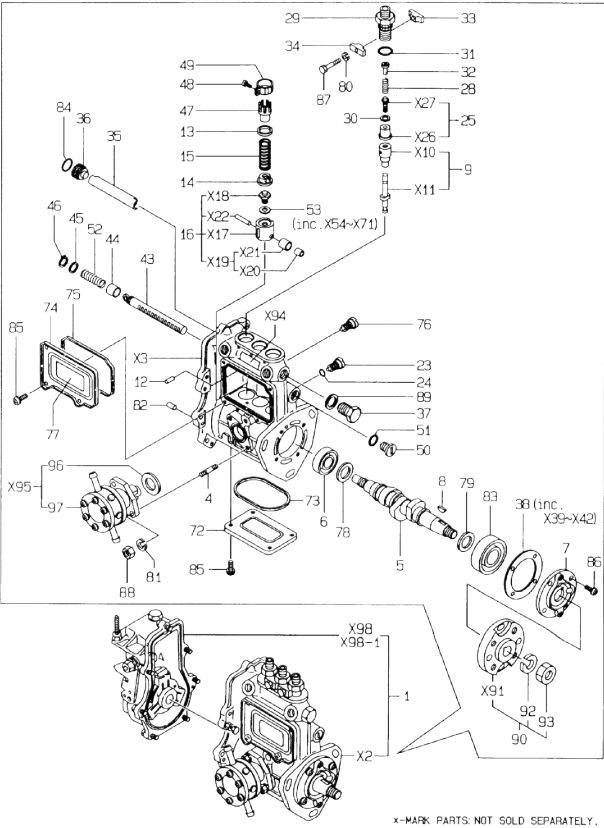
## 10. COOLING WATER SYSTEM

[illegible]

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:Q'ty Change

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



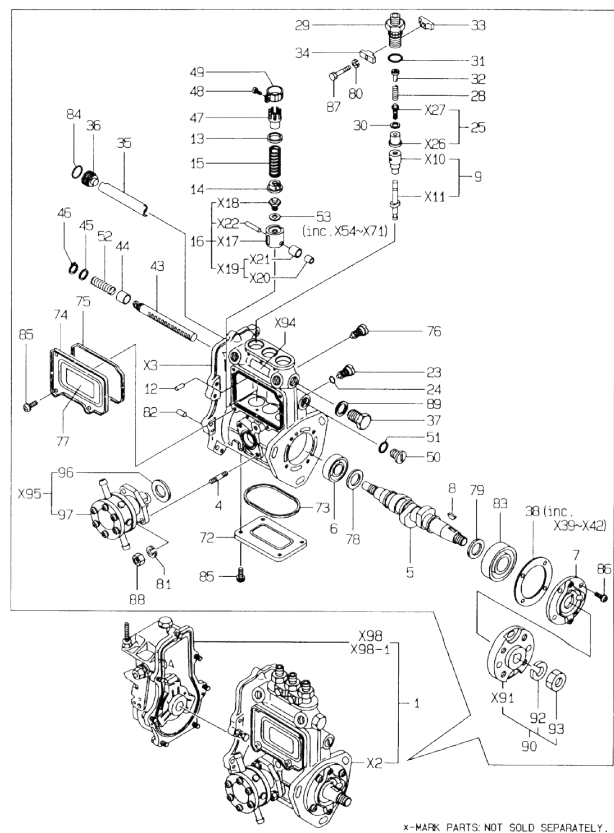
Remarks  
(1) GOVERNOR ASSY(FIG.12) IS  
INCORPORATED IN THIS FOP.CMP  
(REF.NO.1).

| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1          | 1    | 719822-51460 | PUMP ASSY, INJECTION | 1    | 1   |     |     |     |     |   | 1 |
| 4          | 3    | 129155-51020 | STUD                 | 2    | 2   |     |     |     |     |   |   |
| 5          | 3    | 129171-51040 | CAMSHAFT             | 1    | 1   |     |     |     |     |   |   |
| 6          | 3    | 129155-51050 | BEARING, 17BM001D    | 1    | 1   |     |     |     |     |   |   |
| 7          | 3    | 129208-51060 | SUPPORT              | 1    | 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    | 119908-51300 | VALVE ASSY, DELIVERY | 3    | 3   |     |     |     |     |   |   |
| 28         | 3    | 129573-51330 | SPRING, DELIVERY     | 3    | 3   |     |     |     |     |   |   |
| 29         | 3    | 129573-51340 | RETAINER             | 3    | 3   |     |     |     |     |   |   |
| 30         | 3    | 124550-51350 | GASKET, DELIVERY     | 3    | 3   |     |     |     |     |   |   |
| 31         | 3    | 124550-51370 | O-RING               | 3    | 3   |     |     |     |     |   |   |
| 32         | 3    | 129573-51370 | 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=E42433) |      |              |                      |      |     |     |     |     |     |   |   |
| 73         | 3    | 129155-51710 | GASKET               | 1    |     |     |     |     |     |   |   |
| 73-1       | 3    | 129155-51711 | GASKET               | 1    | 1   |     |     |     |     |   | N |
| (A=E45118) |      |              |                      |      |     |     |     |     |     |   |   |
| 74         | 3    | 129155-51750 | COVER                | 1    |     |     |     |     |     |   |   |
| 74-1       | 3    | 129155-51751 | COVER                | 1    | 1   |     |     |     |     |   | N |
| (A=E42433) |      |              |                      |      |     |     |     |     |     |   |   |
| 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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Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP

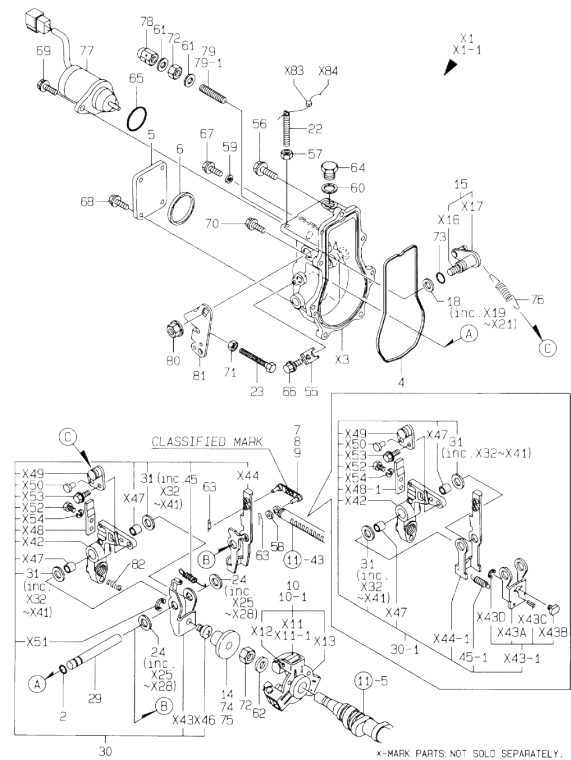


| No.        | Lev. | Parts No.    | Description          | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|----------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                      | (A)  | (B) | (C) | (D) | (E) | (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=E42433) |      |              |                      |      |     |     |     |     |     |   |   |
| 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   |     |     |     |     |   |   |
| 90         | 3    | 129208-54500 | FLANGE ASSY          | 1    | 1   |     |     |     |     |   |   |
| 92         | 4    | 22217-120000 | WASHER, SPRING 12    | 1    | 1   |     |     |     |     |   |   |
| 93         | 4    | 26716-120002 | NUT, M12             | 1    | 1   |     |     |     |     |   |   |
| 96         | 3    | 129155-52050 | GASKET               | 1    | 1   |     |     |     |     |   |   |
| 97         | 3    | 129100-52100 | PUMP ASSY, FUEL FEED | 1    | 1   |     |     |     |     |   |   |

Remarks  
(1) GOVERNOR ASSY(FIG.12) IS  
INCORPORATED IN THIS FOP.CMP  
(REF.NO.1).

Fig.12. GOVERNOR

12. GOVERNOR



| 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    | 129052-61050 | GASKET                | 1    | 1   |     |     |     |     |   |   |
| 5    | 3    | 129052-61060 | COVER, GOVERNOR CASE  | 1    | 1   |     |     |     |     |   |   |
| 6    | 3    | 129052-61070 | 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    | 129155-61201 | WEIGHT ASSY, GOVERNOR | 1    |     |     |     |     |     |   |   |
| 10-1 | 3    | 129486-61200 | WEIGHT ASSY, GOVERNOR | 1    |     |     |     |     |     |   | S |
| 10-2 | 3    | 129486-61201 | WEIGHT ASSY, GOVERNOR | 1    | 1   |     |     |     |     |   | R |
| 14   | 3    | 129155-61341 | SLEEVE                | 1    | 1   |     |     |     |     |   | 2 |
| 15   | 3    | 129100-61400 | SHAFT ASSY            | 1    | 1   |     |     |     |     |   |   |
| 18   | 3    | 129155-61430 | SPACER                | 1    | 1   |     |     |     |     |   |   |
| 22   | 3    | 129155-61450 | BOLT, LIMITER         | 1    | 1   |     |     |     |     |   |   |
| 23   | 3    | 129155-61460 | BOLT, IDLE            | 1    | 1   |     |     |     |     |   |   |
| 24   | 3    | 129155-61480 | SPACER ASSY           | 2    | 2   |     |     |     |     |   |   |
| 29   | 3    | 129052-61390 | SHAFT                 |      | 1   | 1   |     |     |     |   |   |
| 30   | 3    | 129052-61500 | LEVER ASSY, GOVERNOR  | 1    |     |     |     |     |     |   |   |
| 30-1 | 3    | 119908-61501 | LEVER ASSY, GOVERNOR  | 1    | 1   |     |     |     |     |   | R |
| 31   | 4    | 174307-51700 | SHIM SET              | 2    | 2   |     |     |     |     |   |   |
| 45   | 4    | 129052-61540 | SPRING, SET           | 1    |     |     |     |     |     |   |   |
| 45-1 | 4    | 129486-61540 | SPRING, SET           | 1    | 1   |     |     |     |     |   | S |
| 55   | 3    | 119660-61901 | RETAINER, SHAFT       | 1    | 1   |     |     |     |     |   |   |
| 56   | 3    | 129155-61950 | BOLT                  | 1    | 1   |     |     |     |     |   |   |
| 57   | 3    | 124550-66370 | NUT, M6               | 1    | 1   |     |     |     |     |   |   |
| 58   | 3    | 22117-040000 | WASHER, 4             | 1    | 1   |     |     |     |     |   |   |
| 59   | 3    | 22190-060003 | SEAL WASER 6          | 1    | 1   |     |     |     |     |   |   |
| 60   | 3    | 22190-100002 | WASHER, SEAL 10       | 1    | 1   |     |     |     |     |   |   |
| 61   | 3    | 22190-120002 | WASHER, SEAL 12       | 2    | 2   |     |     |     |     |   |   |
| 62   | 3    | 22287-120000 | WASHER, 12            | 1    | 1   |     |     |     |     |   |   |
| 63   | 3    | 22372-040000 | PIN, SNAP 4           | 2    | 2   |     |     |     |     |   |   |
| 64   | 3    | 23887-100002 | PLUG, 10              | 1    | 1   |     |     |     |     |   |   |
| 65   | 3    | 24341-000280 | O-RING, 1AS28.0       | 1    | 1   |     |     |     |     |   |   |
| 65-1 | 3    | 158552-61900 | O-RING                | 1    | 1   |     |     |     |     |   | N |
| 66   | 3    | 26106-060102 | BOLT, M6X 10 PLATED   | 1    | 1   |     |     |     |     |   |   |
| 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         | 2    | 2   |     |     |     |     |   |   |
| 73   | 3    | 129155-61830 | O-RING, S10           | 1    | 1   |     |     |     |     |   |   |
| 74   | 3    | 129155-61350 | SLEEVE, L=24.9        | 1    | 1   |     |     |     |     |   | 2 |
| 75   | 3    | 129155-61360 | SLEEVE, L=25.2        | 1    | 1   |     |     |     |     |   | 2 |
| 76   | 2    | 171353-61700 | SPRING, GOVERNOR      | 1    | 1   |     |     |     |     |   |   |
| 77   | 2    | 119653-77950 | SOLENOID, STOP        | 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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[illegible]

\* THIS FIGURE(GOVERNOR ASSY)IS  
INCORPORATED IN THE FUEL INJECTION  
PUMP ASSY(FIG.11).

| No.        | Lev. | Parts No.    | Description        | Q'ty |     |     |     |     |     | I | R |
|------------|------|--------------|--------------------|------|-----|-----|-----|-----|-----|---|---|
|            |      |              |                    | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 78         | 2    | 129100-61930 | NUT, CAP           | 1    | 1   |     |     |     |     |   |   |
| 79         | 2    | 129155-61470 | BOLT, CONTROL      | 1    |     |     |     |     |     |   |   |
| 79-1       | 2    | 120323-61470 | BOLT, CONTROL      | 1    | 1   |     |     |     |     |   | S |
| (A)=E41666 |      |              |                    |      |     |     |     |     |     |   |   |
| 80         | 2    | 26366-080002 | NUT, M8            | 1    | 1   |     |     |     |     |   |   |
| 81         | 2    | 129100-61440 | LEVER, CONTROL     | 1    | 1   |     |     |     |     |   |   |
| 82         | 2    | 129100-61650 | SPRING, CONTROLLER | 1    | 1   |     |     |     |     |   |   |

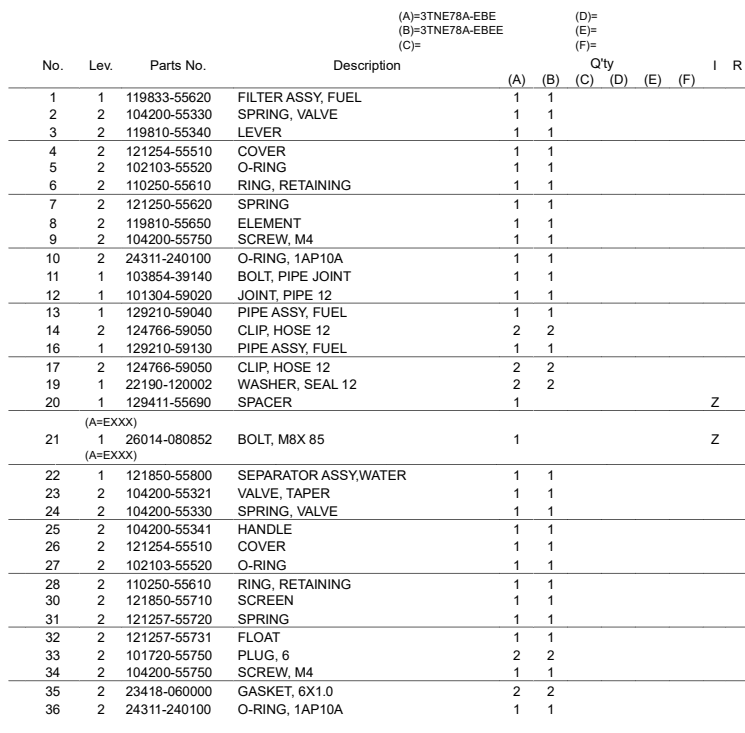
x-MARK PARTS: NOT SOLD SEPARATELY.

(A)=3TNE78A-EBE  
(B)=3TNE78A-EBEE  
(C)=

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

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:Qty Change.

14.FUEL LINE



N:Old  $\xrightarrow{\text{Yes}} \text{New, Q:Old} \xrightarrow{\text{No}} \text{New, R:Old} \xrightarrow{\text{Yes}} \text{New, S:Old} \xrightarrow{\text{No}} \text{New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change}$   
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This exploded view diagram illustrates the assembly of a mechanical unit. The components are numbered as follows:

- 1**: Main housing or frame.
- 2**: Motor or actuator assembly.
- 3**: Gear or pulley component.
- 4**: Housing for the gear/pulley assembly.
- 5**: Internal gear or pulley.
- 6**: Small circular component, possibly a seal or washer.
- 7**: Small circular component, possibly a seal or washer.
- 8**: Small circular component, possibly a seal or washer.
- 9**: Bracket or support arm.
- 10**: Housing or cover for the bracket.
- 11**: Housing or cover for the motor assembly.
- 12**: Small circular component, possibly a seal or washer.
- 13**: Lever or arm component.
- 14**: Small rectangular component, possibly a pin or clip.
- 15**: Gear or pulley component.
- 16**: Small circular component, possibly a seal or washer.
- 17**: Housing or cover for the gear/pulley assembly.
- 18**: Small circular component, possibly a seal or washer.
- 19**: Housing or cover for the gear/pulley assembly.
- 20**: Shaft or axle component.
- 21**: Gear or pulley component.
- 22**: Shaft or axle component.
- 23**: Long shaft or axle component.
- 24**: Bolt or screw component.

Callout **A** points to specific fasteners: a bolt on the motor housing (11) and a screw on the main housing (1).

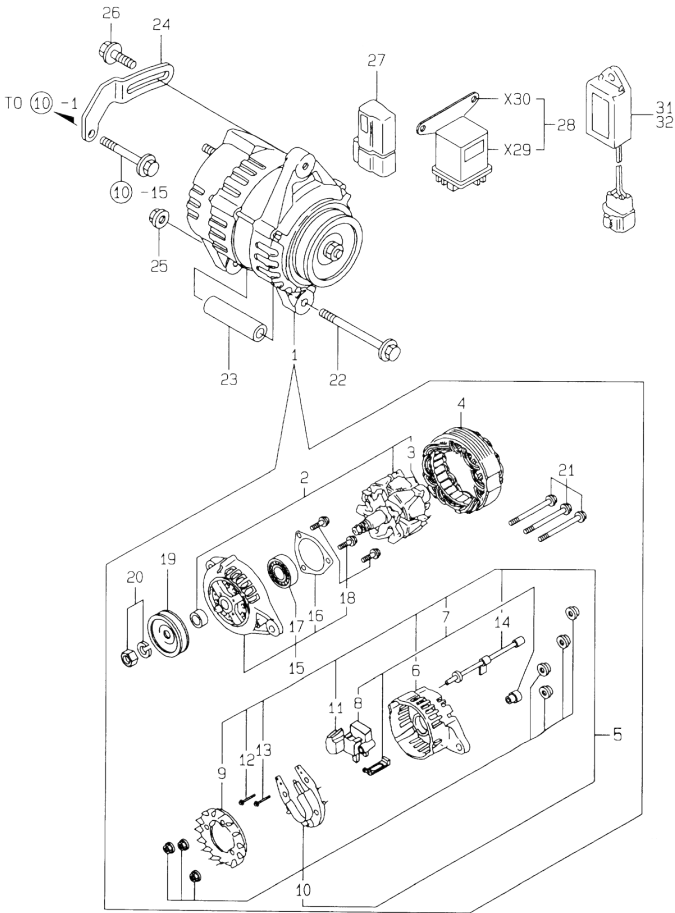
[illegible]

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.16. GENERATOR

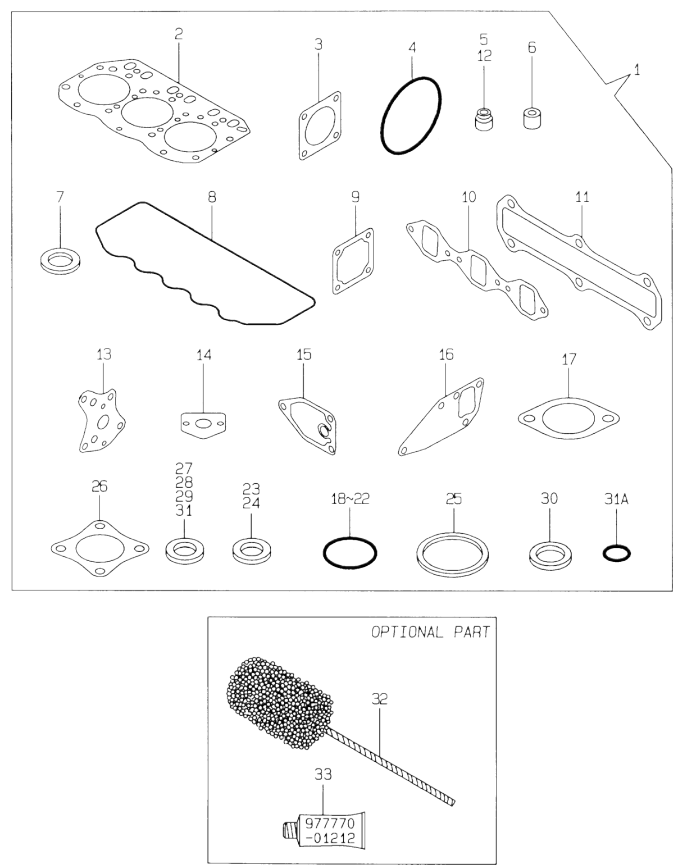
16. GENERATOR



| 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    | 129136-77251 | BOLT, M8X110         | 1    | 1   |     |     |     |     |   |   |
| 23                    | 1    | 119820-77340 | PIECE, DISTANCE      | 1    | 1   |     |     |     |     |   |   |
| 24                    | 1    | 119823-77330 | ADJUSTER             | 1    | 1   |     |     |     |     |   |   |
| 25                    | 1    | 129612-77260 | NUT, ALTERNATOR      | 1    | 1   |     |     |     |     |   |   |
| 26                    | 1    | 119810-77340 | BOLT, ADJUSTER       | 1    | 1   |     |     |     |     |   |   |
| 27                    | 1    | 119643-66900 | DIODE                | 2    | 2   |     |     |     |     |   |   |
| 28                    | 1    | 119650-77910 | RELAY ASSY, GLOW     | 1    | 1   |     |     |     |     |   |   |
| 31                    | 1    | 119632-77920 | TIMER                | 1    | 1   |     |     |     |     |   |   |
| 31-1                  | 1    | 129211-77920 | TIMER                | 1    | 1   |     |     |     |     |   | N |
| (A)=3TNE78A-EBE (D)=  |      |              |                      |      |     |     |     |     |     |   |   |
| (B)=3TNE78A-EBEE (E)= |      |              |                      |      |     |     |     |     |     |   |   |
| (C)= (F)=             |      |              |                      |      |     |     |     |     |     |   |   |
| 32                    | 1    | 128300-77920 | TIMER                | 1    | 1   |     |     |     |     |   |   |

Fig.17. GASKET SET

17.GASKET SET



| No.          | Lev. | Parts No.    | Description        | Q'ty |     |     |     |     |     | I | R |
|--------------|------|--------------|--------------------|------|-----|-----|-----|-----|-----|---|---|
|              |      |              |                    | (A)  | (B) | (C) | (D) | (E) | (F) |   |   |
| 1            | 1    | 719818-92640 | GASKET SET         | 1    |     |     |     |     |     |   | 1 |
| 1-1          | 1    | 719818-92690 | GASKET SET         | 1    | 1   |     |     |     |     | N | 1 |
| (A=E000)     |      |              |                    |      |     |     |     |     |     |   |   |
| 2            | 2    | 119818-01330 | GASKET, HEAD       | 1    | 1   |     |     |     |     |   |   |
| 3            | 2    | 124240-01883 | GASKET             | 1    |     |     |     |     |     |   | Z |
| (A=E000)     |      |              |                    |      |     |     |     |     |     |   |   |
| 4            | 2    | 121850-51960 | O-RING             | 1    | 1   |     |     |     |     |   |   |
| 5            | 2    | 124160-11340 | SEAL, VALVE STEM   | 3    | 3   |     |     |     |     |   |   |
| 6            | 2    | 119625-11870 | PROTECTOR, NOZZLE  | 3    | 3   |     |     |     |     |   |   |
| 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    | 119810-12111 | 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=E42634)   |      |              |                    |      |     |     |     |     |     |   |   |
| 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    | 3    | 3   |     |     |     |     |   |   |
| 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=E41666)   |      |              |                    |      |     |     |     |     |     |   |   |
| 24           | 2    | 124465-44950 | GASKET, 16         | 2    | 2   |     |     |     |     |   |   |
| 25           | 2    | 129150-49811 | GASKET, THERMOSTAT | 1    | 1   |     |     |     |     |   |   |
| 26           | 2    | 124701-11911 | GASKET, SILENCER   | 1    | 1   |     |     |     |     |   |   |
| 27           | 2    | 22190-080002 | WASHER, SEAL 6     | 5    | 5   |     |     |     |     |   |   |
| 28           | 2    | 22190-220002 | WASHER, SEAL 22    | 1    | 1   |     |     |     |     |   |   |
| 29           | 2    | 22190-080003 | WASHER, SEAL 8     | 2    |     |     |     |     |     |   |   |
| 29-1         | 2    | 22190-080002 | WASHER, SEAL 6     | 2    | 2   |     |     |     |     |   | N |
| (A=E41666)   |      |              |                    |      |     |     |     |     |     |   |   |
| 30           | 2    | 129155-52050 | GASKET             | 1    | 1   |     |     |     |     |   |   |
| 31           | 2    | 22190-120002 | WASHER, SEAL 12    | 4    | 4   |     |     |     |     |   |   |
| 31A          | 2    | 24311-240100 | O-RING, 1AP10A     | 2    |     |     |     |     |     |   | W |
| (A=FROM 1ST) |      |              |                    |      |     |     |     |     |     |   |   |
| 31A-1        | 2    | 24311-240100 | O-RING, 1AP10A     | 1    | 1   |     |     |     |     |   | K |
| (A=E000)     |      |              |                    |      |     |     |     |     |     |   |   |
| 32           | 1    | 129400-92420 | HONE               | 1    | 1   |     |     |     |     |   | 1 |
| 33           | 1    | 977770-01212 | GASKET, LIQUID     | 1    | 1   |     |     |     |     |   | 1 |

Remarks  
(1) OPTIONAL PART.

## Parts No. Index

| Parts No.    | Fig. No. | Ref. No. |
|--------------|----------|----------|
| 101304-59020 | 14       | 12       |
| 101720-55750 | 14       | 33       |
| 102103-55520 | 14       | 5        |
|              | 27       |          |
| 103854-39140 | 14       | 11       |
| 104200-55321 | 14       | 23       |
| 104200-55330 | 14       | 2        |
|              | 24       |          |
| 104200-55341 | 14       | 25       |
| 104200-55750 | 14       | 9        |
|              | 34       |          |
| 104211-11180 | 4        | 14       |
| 104211-11370 | 4        | 18       |
| 110250-55610 | 14       | 6        |
|              | 28       |          |
| 114250-53080 | 13       | 5        |
| 114250-53120 | 13       | 9        |
| 114250-53130 | 13       | 10       |
| 114250-53140 | 13       | 11       |
| 114250-53210 | 13       | 12       |
| 114250-53400 | 13       | 13       |
| 119131-18320 | 6        | 4        |
| 119260-34810 | 9        | 17       |
| 119620-01750 | 3        | 18       |
| 119620-02020 | 1        | 12       |
| 119620-49290 | 10       | 30       |
| 119625-11870 | 4        | 19       |
|              | 17       | 6        |
| 119625-11880 | 4        | 20       |
|              | 17       | 7        |
| 119625-11900 | 4        | 21       |
| 119632-77920 | 16       | 31       |
| 119640-01640 | 3        | 7        |
| 119643-66900 | 16       | 27       |
| 119650-77910 | 16       | 28       |
| 119653-77950 | 12       | 77       |
| 119660-61901 | 12       | 55       |
| 119810-01200 | 1        | 21       |
| 119810-01730 | 3        | 5        |
| 119810-01780 | 3        | 15       |
| 119810-01790 | 3        | 6        |
| 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        | 24       |
| 119810-12111 | 5        | 1        |

| Parts No.    | Fig. No. | Ref. No. |
|--------------|----------|----------|
| 119810-12111 | 17       | 10       |
| 119810-14400 | 7        | 2        |
| 119810-14580 | 7        | 3        |
| 119810-23200 | 8        | 27       |
| 119810-23600 | 8        | 28       |
| 119810-23610 | 8        | 30       |
| 119810-23910 | 8        | 26       |
| 119810-35401 | 9        | 19       |
| 119810-39200 | 9        | 33       |
| 119810-42001 | 10       | 1        |
| 119810-55340 | 14       | 3        |
| 119810-55650 | 14       | 8        |
| 119810-77340 | 16       | 26       |
| 119812-11700 | 4        | 4        |
| 119813-13100 | 6        | 1        |
| 119813-13110 | 6        | 2        |
|              | 17       | 11       |
| 119813-21000 | 8        | 1        |
| 119813-22300 | 8        | 21       |
| 119818-01330 | 1        | 22       |
|              | 17       | 2        |
| 119818-22500 | 8        | 17       |
| 119818-22930 | 8        | 32       |
| 119818-22950 | 8        | 34       |
| 119820-77340 | 16       | 23       |
| 119823-77330 | 16       | 24       |
| 119833-55620 | 14       | 1        |
| 119836-34810 | 9        | 45       |
| 119836-77200 | 16       | 1        |
| 119836-77700 | 16       | 2        |
| 119836-77710 | 16       | 4        |
| 119836-77721 | 16       | 5        |
| 119836-77730 | 16       | 6        |
| 119836-77741 | 16       | 7        |
| 119836-77750 | 16       | 8        |
| 119836-77760 | 16       | 9        |
| 119836-77770 | 16       | 10       |
| 119836-77780 | 16       | 11       |
| 119836-77790 | 16       | 15       |
| 119836-77800 | 16       | 16       |
| 119836-77810 | 16       | 19       |
| 119836-77820 | 16       | 20       |
| 119836-77830 | 16       | 21       |
| 119836-77840 | 16       | 17       |
| 119836-77850 | 16       | 3        |
| 119836-77860 | 16       | 18       |
| 119836-77871 | 16       | 12       |
| 119836-77880 | 16       | 13       |
| 119836-77890 | 16       | 14       |
| 119840-59500 | 13       | 35       |

| Parts No.    | Fig. No. | Ref. No. |
|--------------|----------|----------|
| 119840-59570 | 13       | 38       |
| 119865-11210 | 4        | 23       |
| 119865-11310 | 4        | 44       |
|              | 17       | 8        |
| 119865-21600 | 8        | 14       |
| 119908-51300 | 11       | 25       |
| 119908-53000 | 13       | 2        |
| 119908-61501 | 12       | 30 -1    |
| 119923-22080 | 8        | 15       |
| 119923-59810 | 13       | 30       |
| 119923-59820 | 13       | 31       |
| 119923-59831 | 13       | 32       |
| 119923-59832 | 13       | 32 -1    |
| 120323-61470 | 12       | 79 -1    |
| 121023-01550 | 2        | 24       |
| 121111-21501 | 8        | 11       |
| 121250-44901 | 10       | 27       |
| 121250-55620 | 14       | 7        |
| 121250-59550 | 13       | 34       |
| 121252-39450 | 9        | 31       |
| 121254-55510 | 14       | 4        |
|              | 26       |          |
| 121256-44600 | 10       | 38       |
| 121257-55720 | 14       | 31       |
| 121257-55731 | 14       | 32       |
| 121450-01560 | 2        | 5        |
| 121450-42450 | 10       | 29       |
| 121850-21680 | 8        | 10       |
| 121850-51960 | 2        | 11       |
|              | 17       | 4        |
| 121850-55710 | 14       | 30       |
| 121850-55800 | 14       | 22       |
| 121855-12060 | 5        | 7        |
| 122117-51560 | 11       | 48       |
| 122710-51090 | 11       | 8        |
| 124060-11800 | 4        | 7        |
| 124066-59100 | 13       | 33       |
|              | 36       |          |
| 124160-01751 | 2        | 6        |
|              | 4        | 50       |
| 124160-01910 | 1        | 4        |
|              | 14       |          |
| 124160-11340 | 4        | 16       |
|              | 17       | 5        |
| 124160-11360 | 4        | 48       |
| 124160-39140 | 9        | 32       |
| 124195-77770 | 15       | 23       |
| 124240-01871 | 2        | 7        |
| 124240-01883 | 2        | 8        |
|              | 17       | 3        |

| Parts No.    | Fig. No. | Ref. No. |
|--------------|----------|----------|
| 124450-44510 | 10       | 33       |
| 124450-44530 | 10       | 35       |
| 124450-44560 | 10       | 36       |
| 124465-44950 | 10       | 20       |
|              | 28       |          |
|              | 17       | 24       |
| 124550-51350 | 11       | 30       |
| 124550-51370 | 11       | 31       |
| 124550-59820 | 9        | 38       |
| 124550-59830 | 9        | 37       |
| 124550-66370 | 12       | 57       |
| 124700-44740 | 10       | 19       |
| 124701-11911 | 6        | 5        |
|              | 17       | 26       |
| 124736-07900 | 4        | 2        |
| 124766-59050 | 13       | 50       |
|              | 14       | 14       |
|              | 17       |          |
| 124950-11340 | 4        | 17       |
|              | 17       | 12       |
| 124950-51190 | 11       | 15       |
| 128300-77920 | 16       | 32       |
| 129001-01250 | 1        | 7 -1     |
| 129001-32001 | 9        | 1        |
| 129001-35300 | 9        | 27       |
| 129001-91840 | 2        | 20       |
| 129001-91841 | 2        | 20 -1    |
| 129052-61050 | 12       | 4        |
| 129052-61060 | 12       | 5        |
| 129052-61070 | 12       | 6        |
| 129052-61390 | 12       | 29       |
| 129052-61500 | 12       | 30       |
| 129052-61540 | 12       | 45       |
| 129100-01580 | 3        | 1        |
|              | 8        | 2        |
| 129100-25061 | 7        | 9        |
| 129100-52100 | 11       | 97       |
| 129100-59951 | 13       | 40       |
| 129100-61400 | 12       | 15       |
| 129100-61440 | 12       | 81       |
| 129100-61650 | 12       | 82       |
| 129100-61930 | 12       | 78       |
| 129108-51100 | 11       | 9        |
| 129120-77501 | 5        | 4        |
| 129135-34800 | 9        | 16       |
| 129136-34820 | 9        | 42       |
| 129136-77251 | 16       | 22       |
| 129150-02450 | 7        | 4        |
| 129150-03020 | 4        | 40       |

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| Parts No.    | Fig. No. | Ref. No. |
|--------------|----------|----------|
| 129150-03070 | 4        | 41       |
| 129150-03080 | 4        | 42       |
| 129150-03090 | 4        | 1        |
| 129150-03100 | 2        | 10       |
| 129150-11230 | 4        | 31       |
| 129150-11280 | 4        | 29       |
| 129150-11750 | 4        | 33       |
| 129150-14101 | 7        | 6        |
| 129150-14200 | 7        | 1        |
| 129150-21200 | 8        | 4        |
| 129150-25101 | 7        | 10       |
| 129150-25301 | 7        | 16       |
| 129150-25920 | 7        | 13       |
| 129150-25931 | 7        | 15       |
| 129150-32020 | 9        | 14       |
|              | 17       | 13       |
| 129150-35041 | 9        | 18       |
|              | 17       | 14       |
| 129150-35101 | 9        | 24       |
| 129150-35111 | 9        | 25       |
|              | 17       | 15       |
| 129150-35151 | 9        | 26       |
| 129150-35350 | 9        | 28       |
| 129150-42020 | 10       | 14       |
|              | 17       | 16       |
| 129150-42320 | 10       | 12       |
| 129150-49811 | 10       | 25       |
|              | 17       | 25       |
| 129150-59120 | 13       | 25       |
| 129150-59131 | 13       | 28       |
| 129150-59580 | 13       | 39       |
| 129150-77511 | 5        | 5        |
|              | 17       | 9        |
| 129155-11260 | 4        | 27       |
| 129155-11270 | 4        | 28       |
| 129155-49800 | 10       | 24       |
| 129155-51020 | 11       | 4        |
| 129155-51050 | 11       | 6        |
| 129155-51140 | 11       | 12       |
| 129155-51180 | 11       | 14       |
| 129155-51200 | 11       | 16       |
| 129155-51270 | 11       | 23       |
| 129155-51280 | 11       | 24       |
|              | 12       | 2        |
| 129155-51380 | 11       | 33       |
| 129155-51390 | 11       | 34       |
| 129155-51400 | 11       | 35       |
| 129155-51410 | 11       | 36       |
| 129155-51420 | 11       | 37       |
| 129155-51450 | 11       | 38       |

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| 129155-51500 | 11       | 43       |
| 129155-51521 | 11       | 44       |
| 129155-51530 | 11       | 45       |
| 129155-51540 | 11       | 46       |
| 129155-51550 | 11       | 47       |
| 129155-51570 | 11       | 50       |
| 129155-51580 | 11       | 51       |
| 129155-51591 | 11       | 52       |
| 129155-51600 | 11       | 53       |
| 129155-51700 | 11       | 72       |
| 129155-51701 | 11       | 72 -1    |
| 129155-51710 | 11       | 73       |
| 129155-51711 | 11       | 73 -1    |
| 129155-51750 | 11       | 74       |
| 129155-51751 | 11       | 74 -1    |
| 129155-51760 | 11       | 75       |
| 129155-51790 | 11       | 76       |
| 129155-51930 | 11       | 78       |
| 129155-51940 | 11       | 79       |
| 129155-52050 | 11       | 96       |
|              | 17       | 30       |
| 129155-61120 | 12       | 7        |
| 129155-61130 | 12       | 8        |
| 129155-61140 | 12       | 9        |
| 129155-61201 | 12       | 10       |
| 129155-61341 | 12       | 14       |
| 129155-61350 | 12       | 74       |
| 129155-61360 | 12       | 75       |
| 129155-61430 | 12       | 18       |
| 129155-61450 | 12       | 22       |
| 129155-61460 | 12       | 23       |
| 129155-61470 | 12       | 79       |
| 129155-61480 | 12       | 24       |
| 129155-61830 | 12       | 73       |
| 129155-61950 | 12       | 56       |
| 129156-51910 | 11       | 77       |
| 129171-51040 | 11       | 5        |
| 129208-51060 | 11       | 7        |
| 129208-54500 | 11       | 90       |
| 129210-59040 | 14       | 13       |
| 129210-59130 | 13       | 49       |
|              | 14       | 16       |
| 129211-77920 | 16       | 31 -1    |
| 129350-49530 | 10       | 22       |
| 129400-01520 | 2        | 4        |
| 129400-92420 | 17       | 32       |
| 129403-42380 | 10       | 18       |
| 129411-55690 | 14       | 20       |
| 129486-01670 | 3        | 16       |
| 129486-42050 | 10       | 14 -1    |

| Parts No.    | Fig. No. | Ref. No. |
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| 129486-42050 | 17       | 16 -1    |
| 129486-61200 | 12       | 10 -1    |
| 129486-61201 | 12       | 10 -2    |
| 129486-61540 | 12       | 45 -1    |
| 129573-51330 | 11       | 28       |
| 129573-51340 | 11       | 29       |
| 129573-51370 | 11       | 32       |
| 129608-77010 | 15       | 1        |
| 129608-77110 | 15       | 4        |
| 129609-53100 | 13       | 2 -1     |
| 129612-01600 | 3        | 2        |
| 129612-77260 | 16       | 25       |
| 129698-77020 | 15       | 2        |
| 129698-77100 | 15       | 3        |
| 129698-77120 | 15       | 5        |
| 129698-77130 | 15       | 7        |
| 129698-77140 | 15       | 6        |
| 129698-77150 | 15       | 8        |
| 129698-77160 | 15       | 9        |
| 129698-77170 | 15       | 10       |
| 129698-77180 | 15       | 17       |
| 129698-77190 | 15       | 18       |
| 129698-77200 | 15       | 19       |
| 129698-77210 | 15       | 20       |
| 129698-77220 | 15       | 21       |
| 129698-77230 | 15       | 22       |
| 129698-77240 | 15       | 15       |
| 129698-77250 | 15       | 16       |
| 129698-77260 | 15       | 11       |
| 129698-77270 | 15       | 13       |
| 129698-77280 | 15       | 14       |
| 129792-22400 | 8        | 22       |
| 129795-01800 | 2        | 3        |
| 129795-01950 | 2        | 9        |
| 129795-02411 | 1        | 13       |
| 129795-21661 | 8        | 9        |
| 129795-49551 | 10       | 23       |
|              | 17       | 17       |
| 158552-61900 | 12       | 65 -1    |
| 171031-11741 | 2        | 27       |
| 171051-01921 | 1        | 5        |
| 171301-12701 | 5        | 2        |
| 171301-21580 | 8        | 12       |
| 171301-21650 | 8        | 8        |
| 171353-61700 | 12       | 76       |
| 174307-51170 | 11       | 13       |
| 174307-51560 | 11       | 49       |
| 174307-51700 | 12       | 31       |
| 22117-040000 | 12       | 58       |
| 22117-080000 | 9        | 46       |

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|              |          | 29 -1    |
| 22190-080003 | 9        | 39       |
|              |          | 41       |
|              | 17       | 29       |
| 22190-100002 | 9        | 40 -1    |
|              | 12       | 60       |
|              | 17       | 23 -1    |
| 22190-120002 | 12       | 61       |
|              | 13       | 48       |
|              | 14       | 19       |
|              | 17       | 31       |
| 22190-160002 | 11       | 89       |
| 22190-220002 | 3        | 9        |
|              | 17       | 28       |
| 22217-050000 | 11       | 80       |
| 22217-060000 | 11       | 81       |
| 22217-080000 | 9        | 47       |
| 22217-120000 | 11       | 92       |
| 22287-120000 | 12       | 62       |
| 22351-040010 | 8        | 7        |
| 22351-050010 | 11       | 82       |
| 22351-060012 | 4        | 22       |
| 22372-040000 | 12       | 63       |
| 22512-070140 | 7        | 7        |
|              | 8        | 5        |
| 23061-070230 | 10       | 37       |
| 23414-100000 | 9        | 40       |
|              | 17       | 23       |
| 23418-060000 | 14       | 35       |
| 23876-010000 | 1        | 6        |
| 23876-030000 | 10       | 13       |
| 23887-100002 | 12       | 64       |
| 24101-063034 | 11       | 83       |
| 24311-000120 | 4        | 49       |
|              | 17       | 18       |
| 24311-000160 | 2        | 12       |
|              | 9        | 29       |
|              | 17       | 19       |
| 24311-000320 | 2        | 13       |
|              |          | 28       |
|              | 4        | 51       |
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| 24311-240100 | 9        | 43       |
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| 24341-000160 | 11       | 31 A-1   |
| 24341-000240 | 2        | 84       |
|              | 17       | 25       |
| 24341-000280 | 12       | 22       |
| 24341-000500 | 4        | 65       |
|              | 17       | 46       |
| 25132-003900 | 10       | 21       |
| 26014-060162 | 10       | 17       |
| 26014-080852 | 14       | 21       |
| 26022-050102 | 11       | 85       |
| 26022-050122 | 11       | 85 -1    |
| 26022-060162 | 11       | 86       |
| 26106-060102 | 12       | 66       |
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| 26106-060142 | 12       | 69       |
| 26106-060162 | 2        | 26       |
| 26106-060202 | 12       | 70       |
| 26106-080122 | 2        | 14       |
| 26106-080142 | 4        | 3        |
|              | 7        | 8        |
| 26106-080162 | 2        | 15       |
|              | 3        | 16       |
|              | 3        | 10       |
|              | 4        | 47       |
| 26106-080202 | 2        | 17       |
|              | 9        | 30       |
| 26106-080222 | 10       | 26       |
| 26106-080252 | 4        | 35       |
|              | 5        | 3        |
|              | 9        | 44       |
| 26106-080352 | 3        | 17       |
|              | 5        | 6        |
|              | 9        | 23       |
|              | 10       | 15       |
| 26106-080452 | 2        | 18       |
|              | 3        | 11       |
|              | 7        | 14       |
| 26106-080502 | 4        | 36       |
| 26106-080552 | 2        | 19       |
|              | 10       | 16       |
| 26106-080602 | 6        | 3        |
| 26106-081002 | 9        | 48       |
| 26116-050302 | 11       | 87       |
| 26116-120252 | 15       | 24       |
| 26206-100252 | 3        | 3        |

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| 26206-100302 | 3        | 4        |
| 26216-060302 | 4        | 9        |
| 26216-080602 | 6        | 7        |
| 26226-080182 | 4        | 34       |
| 26366-060002 | 4        | 37       |
| 26366-080002 | 2        | 21       |
|              | 6        | 6        |
|              | 12       | 80       |
| 26450-060252 | 9        | 15       |
| 26716-060002 | 11       | 88       |
| 26716-120002 | 11       | 93       |
| 26756-060002 | 12       | 71       |
| 26776-120002 | 12       | 72       |
| 27231-500000 | 1        | 7        |
| 27241-120000 | 1        | 8        |
| 27241-300000 | 1        | 9        |
| 27241-400000 | 4        | 10       |
| 27310-070001 | 4        | 15       |
| 719810-01500 | 2        | 1        |
| 719810-01650 | 3        | 13       |
| 719810-11520 | 4        | 38       |
| 719810-11521 | 4        | 38 -1    |
| 719810-11660 | 4        | 30       |
| 719810-23100 | 8        | 23       |
| 719818-92640 | 17       | 1        |
| 719818-92690 | 17       | 1 -1     |
| 719822-01560 | 1        | 1        |
| 719822-51460 | 11       | 1        |
| 719908-53100 | 13       | 1        |
| 729609-53200 | 13       | 1 -1     |
| 977770-01212 | 2        | 29       |
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[illegible]