

**SECTION EG**

**EG**

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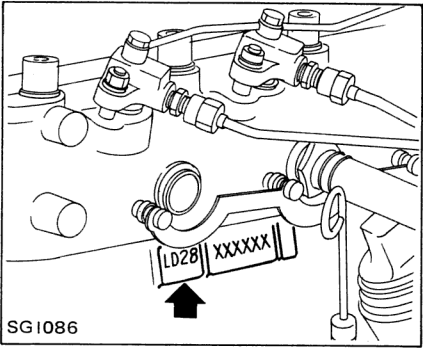
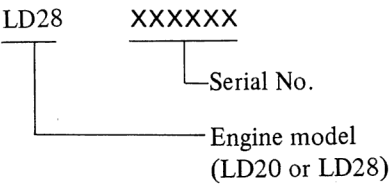
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SPECIFICATIONS

|                              |                         |                             |                             |
|------------------------------|-------------------------|-----------------------------|-----------------------------|
| Engine model                 |                         | LD28                        | LD20                        |
| Cylinder arrangement         |                         | In-line                     |                             |
| Number of cylinders          |                         | 6                           | 4                           |
| Valve arrangement            |                         | O.H.C.                      |                             |
| Bore x stroke                | mm (in)                 | 84.5 x 83.0 (3.327 x 3.268) | 85.0 x 86.0 (3.346 x 3.386) |
| Displacement                 | cm <sup>3</sup> (cu in) | 2,792 (170.37)              | 1,952 (119.11)              |
| Firing order                 |                         | 1-5-3-6-2-4                 | 1-3-4-2                     |
| Number of piston rings       | Compression             | 2                           |                             |
|                              | Oil                     | 1                           |                             |
| Number of main bearings      |                         | 7                           | 5                           |
| Compression ratio            |                         | 22.0                        | 22.2                        |
| Cetane number of diesel fuel |                         | More than 45                |                             |

ENGINE SERIAL NUMBER LOCATION

The engine number is stamped on the right side of the cylinder block.



## TIGHTENING TORQUE OF STANDARD BOLT

| Grade | Nominal size | Diameter<br>mm | Pitch mm | Tightening torque |             |           |
|-------|--------------|----------------|----------|-------------------|-------------|-----------|
|       |              |                |          | N-m               | kg-m        | ft-lb     |
| 4T    | M6           | 6.0            | 1.0      | 3 - 4             | 0.3 - 0.4   | 2.2 - 2.9 |
|       | M8           | 8.0            | 1.25     | 8 - 11            | 0.8 - 1.1   | 5.8 - 8.0 |
|       |              |                | 1.0      | 8 - 11            | 0.8 - 1.1   | 5.8 - 8.0 |
|       | M10          | 10.0           | 1.5      | 16 - 22           | 1.6 - 2.2   | 12 - 16   |
|       |              |                | 1.25     | 16 - 22           | 1.6 - 2.2   | 12 - 16   |
|       | M12          | 12.0           | 1.75     | 26 - 36           | 2.7 - 3.7   | 20 - 27   |
|       |              |                | 1.25     | 30 - 40           | 3.1 - 4.1   | 22 - 30   |
|       | M14          | 14.0           | 1.5      | 46 - 62           | 4.7 - 6.3   | 34 - 46   |
| 7T    | M6           | 6.0            | 1.0      | 6 - 7             | 0.6 - 0.7   | 4.3 - 5.1 |
|       | M8           | 8.0            | 1.25     | 14 - 18           | 1.4 - 1.8   | 10 - 13   |
|       |              |                | 1.0      | 14 - 18           | 1.4 - 1.8   | 10 - 13   |
|       | M10          | 10.0           | 1.5      | 25 - 35           | 2.6 - 3.6   | 19 - 26   |
|       |              |                | 1.25     | 26 - 36           | 2.7 - 3.7   | 20 - 27   |
|       | M12          | 12.0           | 1.75     | 45 - 61           | 4.6 - 6.2   | 33 - 45   |
|       |              |                | 1.25     | 50 - 68           | 5.1 - 6.9   | 37 - 50   |
|       | M14          | 14.0           | 1.5      | 76 - 103          | 7.7 - 10.5  | 56 - 76   |
| 9T    | M6           | 6.0            | 1.0      | 8 - 11            | 0.8 - 1.1   | 5.8 - 8.0 |
|       | M8           | 8.0            | 1.25     | 19 - 25           | 1.9 - 2.5   | 14 - 18   |
|       |              |                | 1.0      | 20 - 27           | 2.0 - 2.8   | 14 - 20   |
|       | M10          | 10.0           | 1.5      | 36 - 50           | 3.7 - 5.1   | 27 - 37   |
|       |              |                | 1.25     | 39 - 51           | 4.0 - 5.2   | 29 - 38   |
|       | M12          | 12.0           | 1.75     | 65 - 88           | 6.6 - 9.0   | 48 - 65   |
|       |              |                | 1.25     | 72 - 97           | 7.3 - 9.9   | 53 - 72   |
|       | M14          | 14.0           | 1.5      | 109 - 147         | 11.1 - 15.0 | 80 - 108  |

1. Special parts are excluded.
2. This standard is applicable to bolts having the following marks embossed on the bolt head.

| Grade    | Mark |
|----------|------|
| 4T ..... | 4    |
| 7T ..... | 7    |
| 9T ..... | 9    |