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**SUZUKI MIGHTY800 CLUB OF AUSTRALIA**

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**SUZUKI**

**HATCH**

**WITH 800CC ENGINE**

**SERVICE MANUAL**

**SUZUKI MIGHTY800 CLUB OF AUSTRALIA**

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## FOREWORD

This SERVICE MANUAL provides information on functional and construction details and sets forth the methods of inspecting, checking and servicing for this vehicle. The MANUAL is intended for use by technical personnel engaged in or related to the servicing work on these SUZUKI four-wheel vehicles.

So that the users of these SUZUKI machines will gain maximum benefits the machines are capable of giving and that each machine will serve best with the high performance built into it, it is hoped that this MANUAL will be looked up to as the source of necessary information by each SUZUKI serviceman.

The vehicle manufactured to standard specifications with right hand drive is the main subject matter of this Manual. However, the vehicle distributed in your country might differ in minor respects from the standard-specification and, if they do, it is because some minor modifications (which are of no consequence in most cases as far as servicing is concerned) had to be made to comply with the statutory requirements of your country.

This MANUAL came out of the first printing for this vehicle and does not cover modifications yet to be made, but we assure you that each future printing will turn out an updated manual.

### NOTES:

Described in GROUP 22 and 23 of this manual are as follows.

1. SERVICE MANUAL SUPPLEMENT (For Automatic Transmission) is incorporated in GROUP 22. It describes disassembly, assembly, inspection and adjustment of automatic transmission itself, those parts in the automatic transmission vehicles which are different from those described in GROUP 1 through GROUP 21 due to the modifications for automatic transmission, and their data, inspection and adjustment.  
For those items which are not included in GROUP 22, refer to the respective GROUPs, 1 through 23.
2. GROUP 23 describes mainly modifications carried out between Oct., 1980 and March, 1983, their data and other procedures which should be added to the previous GROUPs.

Be sure to read it thoroughly before your inspection and maintenance work and make effective use of it.

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Service Publications Department  
Overseas Service Division

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|                      |          |                |
|----------------------|----------|----------------|
| Model                | 400      | 830 (kg)       |
| Wheelbase            | 220      | 48.4 (in)      |
| Gross vehicle weight | 350      | 771 (lb)       |
| Seating capacity     | 2        | 2 seats        |
| Storage capacity     | 300 l    | 8.45 gal (US)  |
| Type                 | 4-stroke | 4-stroke, DOHC |
| Number of cylinders  | 4        | 4              |
| Lubrication system   | Wet sump | Wet sump       |
| Bore                 | 66       | 2.60 (in)      |
| Stroke               | 72       | 2.83 (in)      |
| Piston displacement  | 790      | 105.1 (cc)     |
| Compression ratio    | 11.7     | 11.7           |
| Carburetor           | 4        | 4 jets         |
| Air cleaner          |          | Dry filter     |

1-1. Exterior View



*(The photo shows standard specification.)*

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### 1-2. Specifications

| Item                     | MODEL  | HATCH                                     |          |
|--------------------------|--------|---|----------|
| <b>DIMENSION</b>         |        |   |          |
| Overall length           |        | 3,295 mm (129.7 in.)                      | 10' 9.6" |
| Overall width            |        | 1,405 mm ( 55.3 in.)                      | 4' 7"    |
| Overall height           |        | 1,340 mm ( 52.8 in.)                      | 4' 4.8"  |
| Wheelbase                |        | 2,150 mm ( 84.6 in.)                      |          |
| Tread:                   | Front  | 1,215 mm ( 47.8 in.)                      |          |
|                          | Rear   | 1,170 mm ( 46.1 in.)                      |          |
| Load deck size:          |        |   |          |
|                          | Length | 955 mm ( 37.6 in.)                        |          |
|                          | Width  | 1,180 mm ( 46.5 in.)                      |          |
|                          | Height | 775 mm ( 30.5 in.)                        |          |
| Ground clearance         |        | 175 mm ( 6.9 in.)                         |          |
| <b>WEIGHT</b>            |        |   |          |
| Curb weight              |        | 600 kg (1,323 lbs)                        |          |
| Weight distribution:     |        |   |          |
|                          | Front  | 380 kg ( 838 lbs)                         |          |
|                          | Rear   | 220 kg ( 485 lbs)                         |          |
| Gross vehicle weight     |        | 950 kg (2,094 lbs)                        |          |
| Seating capacity         |        | 2 persons                                 |          |
| Maximum loading capacity |        | 350 kg ( 772 lbs) including 2 persons     |          |
| <b>ENGINE</b>            |        |   |          |
| Type                     |        | 4-stroke cycle, water cooled, OHC         |          |
| Number of cylinders      |        | 3   |          |
| Lubrication system       |        | Wet sump                                  |          |
| Bore                     |        | 68.5 mm (2.70 in.)                        |          |
| Stroke                   |        | 72.0 mm (2.83 in.)                        |          |
| Piston displacement      |        | 796 cm <sup>3</sup> (796 cc, 48.6 cu-in.) |          |
| Compression ratio        |        | 8.7 : 1                                   |          |
| Carburetor               |        | MIKUNI DIDS 2430, single                  |          |
| Air cleaner              |        | Dry type                                  |          |

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| Item                        | MODEL   | HATCH  |
|-----------------------------|---------|--|
| <b>ELECTRICAL</b>           |         |  |
| Ignition timing             |         | 7° B.T.D.C. below 900 r/min (rpm)  |
| Standard spark plug         |         | NGK BP5ES<br>NIPPON DENSO W16EX-U  |
| Starter                     |         | Magnetic shift type  |
| Generator                   |         | Alternator   |
| Battery                     |         | NS40S type : 12V 108 kC (30 AH)/20 HR<br>NT60-S4 type : 12V 126 kC (35 AH)/20 HR |
| Headlight                   |         | 12V 50/40W   |
| Turn signal light           |         | 12V 21W  |
| Clearance light             |         | 12V 5W   |
| Parking light               |         | 12V 5W   |
| Tail/Brake light            |         | 12V 5/21W  |
| Side turn signal light      |         | 12V 6W   |
| License plate light         |         | 12V 10W  |
| Back up light               |         | 12V 21W  |
| Interior light              |         | 12V 6W   |
| Meter pilot lights          |         | 12V 3.4W   |
| Main fuse                   |         | 30A  |
| Fuse box                    |         | 10A, 10A, 15A, 15A, 15A, 15A   |
| <b>POWER TRANSMISSION</b>   |         |  |
| Clutch type                 |         | Dry, single disc   |
| Transmission type           |         | 4-forward all synchromesh, 1 reverse   |
| Final reduction ratio       |         | 4.350  |
| Gear ratios:                | Low     | 3.583  |
|                             | 2nd     | 2.166  |
|                             | 3rd     | 1.333  |
|                             | Top     | 0.900  |
|                             | reverse | 3.363  |
| <b>WHEEL AND SUSPENSION</b> |         |  |
| Tire size: Front and rear   |         | 145/70 SR12 (Tubeless tire)  |
| Tire pressure               | Front   | 190 kPa (1.9 kg/cm <sup>2</sup> , 27 psi)  |
|                             | Rear    | 220 kPa (2.2 kg/cm <sup>2</sup> , 31 psi)  |
| Suspension type, front      |         | Strut  |
| rear                        |         | Leaf spring  |

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| Item                | MODEL | HATCH                         |
|---------------------|-------|-------------------------------|
| <b>STEERING</b>     |       |                               |
| Turning radius      |       | 4.4 m (14.4 ft)               |
| Steering gear box   |       | Rack and pinion               |
| Toe-in              |       | 2 ~ 4 mm ( 0.079 ~ 0.157 in.) |
| Camber angle        |       | 1° 20'                        |
| Caster angle        |       | 3° 15'                        |
| Trail               |       | 13 mm (0.51 in.)              |
| King pin angle      |       | 12° 50'                       |
| <b>BRAKE SYSTEM</b> |       |                               |
| Type                |       | 4-wheel, hydraulic            |
| Wheel brake         | Front | Disc brake                    |
|                     | Rear  | Leading and trailing          |
| Parking brake       |       | Mechanical, 2-rear wheels     |
| <b>CAPACITIES</b>   |       |                               |
| Cooling solution    |       | 3.6 ℓ (7.6/6.3 US/Imp pt)     |
| Fuel tank           |       | 27.0 ℓ (7.1/5.9 US/Imp gal)   |
| Engine oil          |       | 2.5 ℓ (5.3/4.4 US/Imp pt)     |
| Transmission oil    |       | 2.0 ℓ (4.2/3.5 US/Imp pt)     |



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### 1-3. Locations of Engine Number and Body Number

The engine number is punched on the skirt part of the cylinder block under the carburetor.

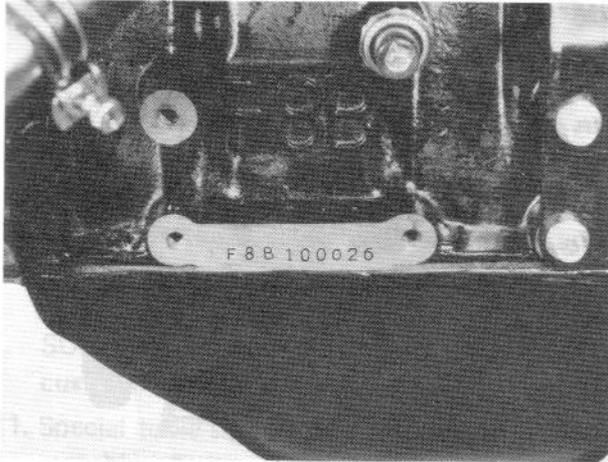


Fig. 1-1 Location of Engine No.

The body number is punched on the body in the engine room as shown below.

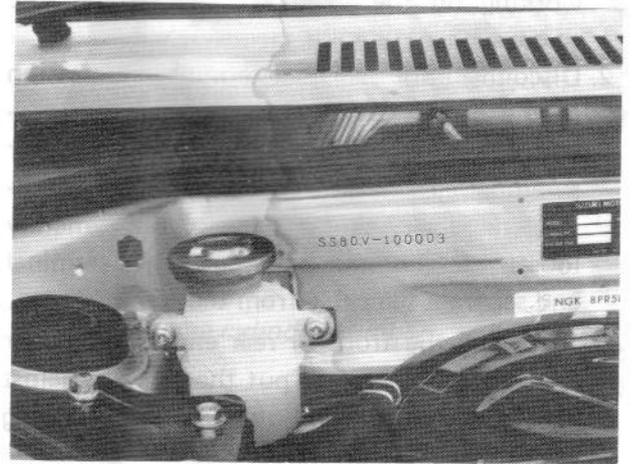
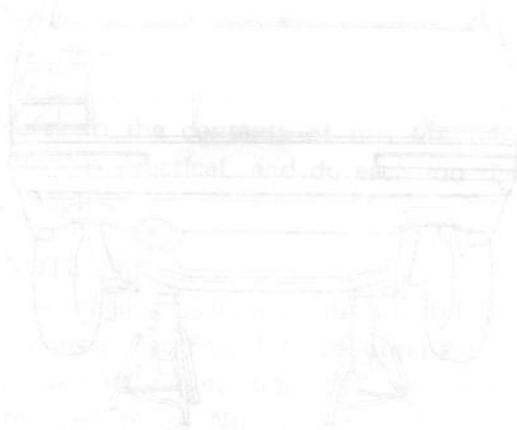


Fig. 1-2 Location of Body No.



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### 1-4. Standard Shop Practices

1. Protect the painted surfaces of the body, and avoid staining or tearing the seats. When working on the fenders and seats, be sure to cover them up with sheets.
2. Disconnect the negative terminal connection of the battery when working on any electrical part or component. This is necessary for avoiding electrical shocks and short-circuiting, and is very simple to accomplish: merely loosen the wing nut on the negative terminal and separate the cable from the terminal post.
3. In raising the front or rear end off the floor by jacking, be sure to put the jack up against the center portion of the rear axle housing or front suspension frame.



Fig. 1-3

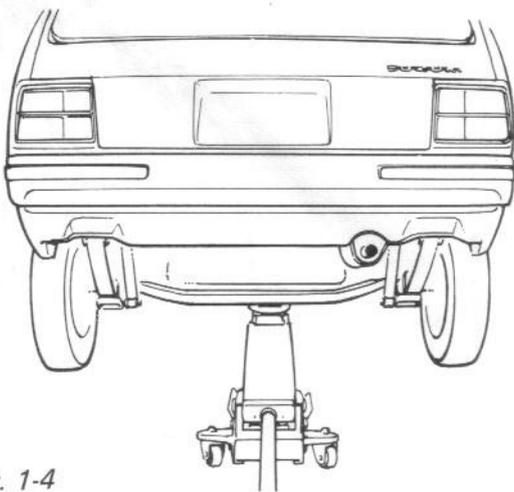


Fig. 1-4

4. To work on the front or rear end raised by jacking, be sure to place the safety stand under the front suspension frame or rear axle to support it in stable condition.



Fig. 1-5

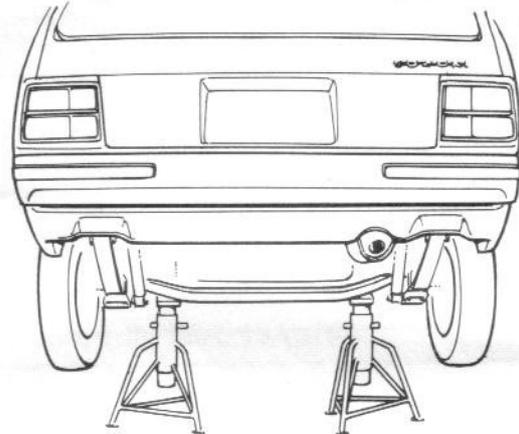
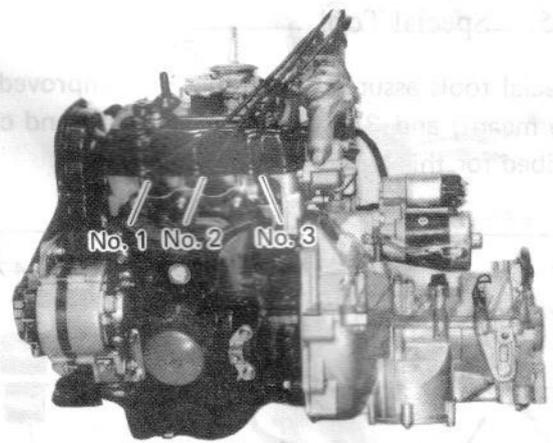


Fig. 1-6

5. Have wheel chocks for ready use in the shop. Chock the wheels securely when raising one end of the machine.
6. Orderliness is a key to successful overhauling. Trays, pans and shelves are needed to set aside the disassembled parts in groups or sets in order to avoid confusion and misplacement. This is particularly important for engine overhauling.
7. Have on hand the liquid packing - SUZUKI BOND No. 4 (99000-31030) - for ready use. This packing dope is an essential item assures leak-free (water and oil) workmanship.

8. Each bolt must be put back to where it was taken from or for which it is intended. Do not depend on your hunch in tightening the bolts for which tightening torque values are specified: be sure to use torque wrenches on those bolts.
9. It is advisable to discard and scrap gaskets and "O" rings removed in disassembly. Use new ones in reassembly, and try not to economize gaskets and "O" rings.
10. Use of Genuine SUZUKI parts is imperative. Use of imitation parts is a big gamble on safety and performance. Use Genuine SUZUKI parts and live up to the trust your customer places on you.
11. Special tools save time and ensure good workmanship: They are available from SUZUKI. Use them where their use is specified. Moreover, your own safety is assured by the use of special tools in many of the disassembly and reassembly steps.
12. Refer to the contents of this MANUAL as often as practical, and do each job right as prescribed.

**NOTE:**  
The engine cylinders are identified by numbers. See Fig. 1-7. Counting from the crankshaft pulley side, the cylinders are referred to as No. 1, No. 2 and No. 3 cylinders.



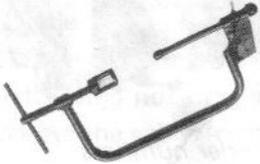
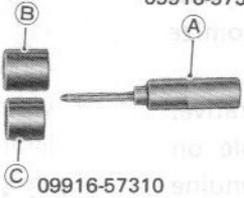
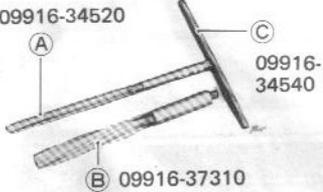
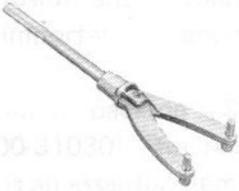
*Fig. 1-7 Engine cylinder numbers*

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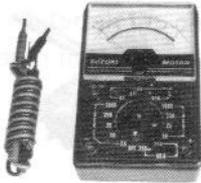
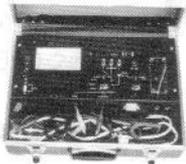
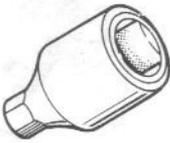
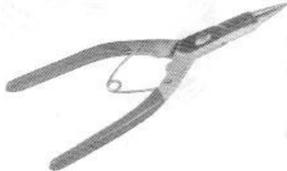
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### 1-5. Special Tools

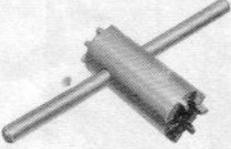
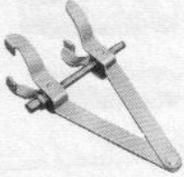
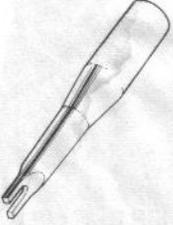
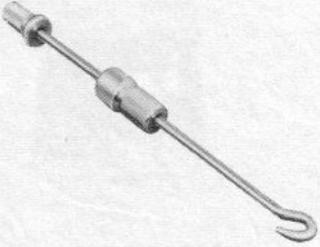
Special tools assure three things: 1) improved workmanship; 2) speedy execution of jobs for which they are meant; and 3) protection of parts and components against damage. Here are the special tools prescribed for this Model:

|   |   |  |
|---|---|--|
| <p>1.</p>  <p>09916-14510<br/>Valve lifter</p>   | <p>2.</p>  <p>09914-77310      09916-57320<br/>09916-57310</p> <p>(A) Valve guide &amp; valve stem seal handle<br/>(B) Valve stem seal installer attachment<br/>(C) Valve guide installer attachment</p> | <p>3.</p>  <p>09916-44510<br/>Valve guide remover</p>                             |
| <p>4.</p>  <p>09916-34520      09916-34540<br/>09916-37310</p> <p>Valve guide reamer<br/>(A) 7 mm dia<br/>(B) 12.0 mm dia<br/>(C) Handle</p> | <p>5.</p>  <p>09916-84510<br/>Forceps</p>   | <p>6.</p>  <p>09916-97820<br/>Flywheel stopper</p>                               |
| <p>7.</p>  <p>09915-47310<br/>Oil filter wrench</p>  | <p>8.</p>  <p>09916-77310<br/>Piston ring compressor</p>   | <p>9.</p>  <p>09915-77310 (09915-77610)<br/>Oil pressure gauge (Attachment)</p> |
| <p>10.</p>  <p>09915-64510<br/>Compression gauge</p>   | <p>11.</p>  <p>09915-67310<br/>Vacuum gauge</p>  | <p>12.</p>  <p>09930-40113<br/>Camshaft lock holder</p>                         |

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|  |   |   |
|--|---|---|
| <p>13.</p>  <p>09900-09002<br/>Shock driver set</p>                 | <p>14.</p>  <p>09900-25002<br/>Pocket tester</p>                     | <p>15.</p>  <p>09900-27003<br/>Ignition timing tester</p>              |
| <p>16.</p>  <p>09900-28106<br/>Electro tester</p>                   | <p>17.</p>  <p>09915-27810<br/>Hexagon socket (10 mm)</p>            | <p>18.</p>  <p>09913-61110<br/>Bearing puller</p>                      |
| <p>19.</p>  <p>09900-06108<br/>Snap ring pliers (closing type)</p> | <p>20.</p>  <p>09900-06107<br/>Snap ring pliers (opening type)</p> | <p>21.</p>  <p>09913-65210<br/>Tie-rod end puller</p>                 |
| <p>22.</p>  <p>09913-80112<br/>Bearing installer</p>              | <p>23.</p>  <p>09913-75810<br/>Bearing installer</p>               | <p>24.</p>  <p>09913-75820<br/>Steering pinion bearing installer</p> |
| <p>25.</p>  <p>09913-75830<br/>Steering pinion bush installer</p> | <p>26.</p>  <p>09922-55121<br/>Drive shaft installer</p>           | <p>27.</p>  <p>09922-85811<br/>Spring pin remover</p>                |

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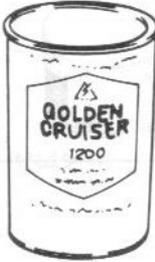
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|---|--|--|
| <p>28.</p>  <p>09923-37810<br/>Clutch center guide</p> | <p>29.</p>  <p>09942-45810<br/>Steering plug setting tool</p> | <p>30.</p>  <p>09943-25810<br/>Coil spring setting tool</p> |
| <p>31.</p>  <p>09913-17310<br/>Carburetor adjuster</p> | <p>32.</p>  <p>09943-17910<br/>Front wheel hub remover</p>    | <p>33.</p>  <p>09942-15510<br/>Sliding hammer</p>           |
| <p>34.</p>  <p>09900-27301<br/>Timing light</p>       |  |  |

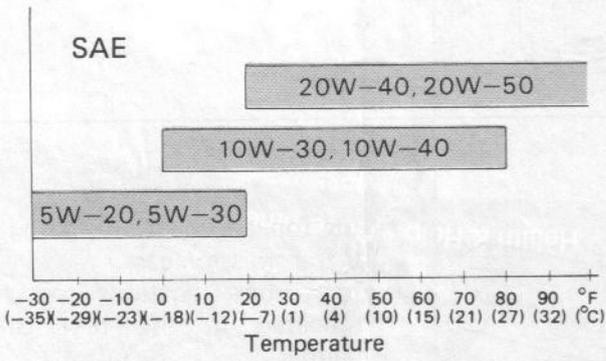
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### 1-6. Required Materials

The materials listed below are needed for maintenance work on this vehicle, and should be kept on hand for ready use. In addition, such standard materials as cleaning fluids, lubricants, etc., should also be available. Methods and time of use are discussed in the text of this manual on later pages.

| Ref. No. | Material  | Use  |
|----------|---|--|
| 1.       | <p>GOLDEN CRUISER 1200<br/>"Anti-freeze and Summer Coolant"<br/>(99000-24120)</p>  | <p>Additive to engine cooling for improving cooling efficiency and for protection of wet walls against rusting.</p>  |
| 2.       | <p>SUZUKI SUPER GREASE A<br/>(99000-25010)</p>                                    | <ul style="list-style-type: none"> <li>● For locations indicated in the section dealing with the starter motor.</li> <li>● Clutch release bearing retainer.</li> <li>● Clutch release shaft bushing.</li> <li>● Transmission oil seal.</li> <li>● Differential oil seal.</li> <li>● Steering column.</li> <li>● Gear shifting control lever bushing &amp; seat.</li> <li>● Door window regulator.</li> </ul> |
| 3.       | <p>SUZUKI GREASE SUPER H<br/>(99000-25120)</p>                                   | <p>Special grease intended for use on constant velocity joint.<br/>(Drive shaft joint)</p>   |
| 4.       | <p>SUZUKI BOND (No. 4)<br/>(99000-31030)</p>                                     | <ul style="list-style-type: none"> <li>● For top and bottom mating faces of transmission case.</li> <li>● For other locations specifically indicated in the text of this manual.</li> </ul>  |

|    |   |  |
|----|---|--|
| 5. | <p>THREAD-LOCK CEMENT<br/>(99000-32040)</p>    | <ul style="list-style-type: none"> <li>● Timing belt inside cover bolt</li> <li>● Back window hinge screws</li> </ul>  |
| 6. | <p>SUZUKI SUPER GREASE E<br/>(99000-25050)</p>   | <ul style="list-style-type: none"> <li>● Steering gear case</li> <li>● Steering rack</li> <li>● Steering pinion bush</li> <li>● Steering rack boot</li> </ul>  |
| 7. | <p>WHEEL BEARING GREASE</p>   | <ul style="list-style-type: none"> <li>● Rear axle spindle cap</li> <li>● Front wheel bearing</li> <li>● Rear wheel bearing</li> </ul>   |
| 8. | <p>GEAR OIL SAE # 90</p>  | <ul style="list-style-type: none"> <li>● Transmission case<br/>2.0 ltr. (4.2/3.5 US/Imp. pt.)</li> <li>● Transmission gear and bearing.</li> </ul>   |
| 9. | <p>4-STROKE ENGINE OIL</p> <p>Proper oil viscosity chart</p>  <p>The chart shows three recommended oil grades based on temperature ranges:</p> <ul style="list-style-type: none"> <li>5W-20, 5W-30 for temperatures from -30°F to 30°F (-35°C to 10°C)</li> <li>10W-30, 10W-40 for temperatures from 0°F to 40°F (-18°C to 4°C)</li> <li>20W-40, 20W-50 for temperatures from 20°F to 80°F (-7°C to 27°C)</li> </ul> | <ul style="list-style-type: none"> <li>● For engine oil pan: 2.5 litres (5.3/4.4 US/Imp. pt.) for periodical oil change but 3.0 litres (6.3/5.3 US/Imp. pt.) for re-filling at the time of engine overhauling.</li> <li>● Crank journal bearings and thrust plate.</li> <li>● Connecting-rod big-end and small-end bearings.</li> <li>● Camshaft journals and thrust plate.</li> <li>● Rocker shafts.</li> <li>● Oil pump gears.</li> <li>● Pistons and piston rings.</li> <li>● Engine oil seals.</li> <li>● Valve stems.</li> <li>● Accelerator, choke and clutch cables.</li> <li>● Parking brake cable.</li> <li>● Accelerator, brake and clutch pedals.</li> <li>● Door locks and hinges.</li> <li>● Distributor gear.</li> </ul> |

|     |   |  |
|-----|---|--|
| 10. | SEALING COMPOUND 366E<br>(99000-31090)<br> | <ul style="list-style-type: none"><li>• Brake backing plate</li></ul>        |
| 11. | THREAD LOCK CEMENT SUPER 1342<br>(99000-32050)  | <ul style="list-style-type: none"><li>• Timing belt tensioner bolt</li></ul> |
| 12. | BRAKE FLUID "DOT 3, DOT 4" or SAE J1703   | <ul style="list-style-type: none"><li>• Brake fluid reservoir tank</li></ul> |

**2. SERVICE DATA**

- 2-1. Tightening Torque Schedule ..... 2-2
- 2-2. Service Data ..... 2-5

| Tightening Torque |         | Part     |  |
|-------------------|---------|----------|--|
| kg-m              | N-m     | Part No. | Description                            |
| 40.0-43.0         | 3.8-4.0 | 88-80    | Cylinder head bolt                     |
| 14.5-21.5         | 1.3-2.0 | 20-30    | Spark plug                             |
| 13.0-18.5         | 1.2-2.3 | 18-23    | Inlet & exhaust manifold nut           |
| 38.5-43.0         | 3.0-3.3 | 80-60    | Camshaft nut                           |
| 11.0-14.0         | 1.2-2.0 | 18-30    | Valve adjuster                         |
| 3.5               | 0.3-0.4 | 3-4      | Tighten belt cover bolt                |
| 38.5-43.0         | 3.0-3.0 | 20-30    | Camshaft nut                           |
| 50.5-53.0         | 3.8-3.2 | 20-30    | Camshaft nut                           |
| 31.5-34.5         | 2.8-2.8 | 43-43    | Camshaft bearing cap bolt              |
| 59.0-62.5         | 4.0-4.5 | 40-48    | Flywheel bolt                          |
| 9.0-10.5          | 1.2-1.5 | 12-18    | Oil pressure unit                      |
| 7.5-10.5          | 1.0-1.5 | 10-15    | Oil filter Assy                        |
| 14.5-17.5         | 2.0-2.5 | 20-25    | Oil filter stand                       |
| 3.0               | 0.4-0.5 | 4-5      | Oil pan bolt                           |
| 14.5              | 2.0-2.5 | 20-25    | Oil drain plug                         |
| 3.0               | 0.4-0.8 | 4-5      | Cylinder head cover bolt               |
| 40.0-80.0         | 4.0-8.0 | 40-80    | Engine suspension frame bolt           |
| 23.0-28.0         | 2.3-2.8 | 23-28    | Engine mounting frame side nut (L & R) |
| 23.0-28.0         | 2.3-2.8 | 23-28    | Engine mounting frame (L & R)          |
| 23.0-28.0         | 2.3-2.8 | 23-28    | Engine rear mount and nut              |
| 80.0-81.0         | 8.0-8.0 | 80-70    | Engine suspension frame support bolt   |

2-1. Tightening Torque Schedule

In threaded fastening parts holding down a component in place, the holding force is preserved primarily in the male and female threads in contact. Screw threads are capable of withstanding this force up to a certain limit. Here occurs the need to tighten them without exceeding the limit, and this need can be met by using torque wrenches.

Fastening parts, for which the limit is specified because their fastening or holding function is critical, is listed below. Use torque wrenches and adhere to the torque specifications when tightening them at the time of periodical inspection or overhauling or servicing.

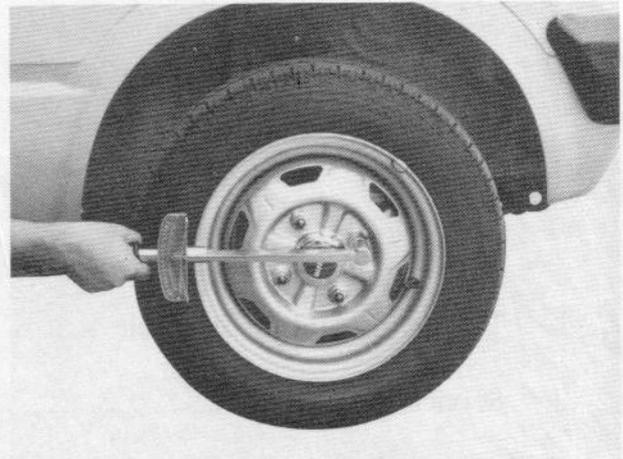


Fig. 2-1

| System                               | Fastening parts                     | Tightening torque |             |             |
|--------------------------------------|-------------------------------------|-------------------|-------------|-------------|
|                                      |                                     | N.m               | kg-m        | lb-ft       |
| Engine                               | Cylinder head bolt                  | 55 - 60           | 5.5 - 6.0   | 40.0 - 43.0 |
|                                      | Spark plug                          | 20 - 30           | 2.0 - 3.0   | 14.5 - 21.5 |
|                                      | Inlet & exhaust manifold nut        | 18 - 23           | 1.8 - 2.3   | 13.0 - 16.5 |
|                                      | Camshaft timing pulley bolt         | 50 - 60           | 5.0 - 6.0   | 36.5 - 43.0 |
|                                      | Valve adjusting nut                 | 15 - 20           | 1.5 - 2.0   | 11.0 - 14.0 |
|                                      | Timing belt cover bolt              | 3 - 4             | 0.3 - 0.4   | 2.5         |
|                                      | Crankshaft pulley bolt              | 50 - 60           | 5.0 - 6.0   | 36.5 - 43.0 |
|                                      | Connecting rod bearing cap nut      | 28 - 32           | 2.8 - 3.2   | 20.5 - 23.0 |
|                                      | Crankshaft bearing cap bolt         | 43 - 48           | 4.3 - 4.8   | 31.5 - 34.5 |
|                                      | Flywheel bolt                       | 40 - 45           | 4.0 - 4.5   | 29.0 - 32.5 |
|                                      | Oil pressure unit                   | 12 - 15           | 1.2 - 1.5   | 9.0 - 10.5  |
|                                      | Oil filter Ass'y                    | 10 - 15           | 1.0 - 1.5   | 7.5 - 10.5  |
|                                      | Oil filter stand                    | 20 - 25           | 2.0 - 2.5   | 14.5 - 18.0 |
|                                      | Oil pan bolt                        | 4 - 5             | 0.4 - 0.5   | 3.0 - 3.5   |
|                                      | Oil drain plug                      | 20 - 25           | 2.0 - 2.5   | 14.5 - 18.0 |
|                                      | Cylinder head cover bolt            | 4 - 5             | 0.4 - 0.5   | 3.0 - 3.5   |
|                                      | Engine suspension frame bolt        | 40 - 60           | 4.0 - 6.0   | 29.0 - 43.0 |
|                                      | Engine mounting frame side nut(L&R) | 23 - 28           | 2.3 - 2.8   | 16.5 - 20.0 |
|                                      | Engine mounting nut (L & R)         | 23 - 28           | 2.3 - 2.8   | 16.5 - 20.0 |
|                                      | Engine rear mounting nut            | 23 - 28           | 2.3 - 2.8   | 16.5 - 20.0 |
| Engine suspension frame support bolt | 50 - 70                             | 5.0 - 7.0         | 36.5 - 51.0 |             |

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| System                               | Fastening parts                 | Tightening torque |             |               |
|--------------------------------------|---------------------------------|-------------------|-------------|---------------|
|                                      |                                 | N.m               | kg-m        | lb-ft         |
| <b>Engine</b>                        | Rocker arm shaft screw          | 9 - 12            | 0.9 - 1.2   | 7.0 - 8.5     |
|                                      | Camshaft thrust plate screw     | 9 - 12            | 0.9 - 1.2   | 7.0 - 8.5     |
|                                      | Oil pump gear plate screw       | 9 - 12            | 0.9 - 1.2   | 7.0 - 8.5     |
| <b>Gearshifting control</b>          | Gearshift control rod rear nut  | 8 - 10            | 0.8 - 1.0   | 5.5 - 7.5     |
|                                      | Gearshift control rod front nut | 8 - 10            | 0.8 - 1.0   | 5.5 - 7.5     |
|                                      | Control lever guide plate bolt  | 8 - 10            | 0.8 - 1.0   | 5.5 - 7.5     |
|                                      | Control lever housing bolt      | 25 - 40           | 2.5 - 4.0   | 18.0 - 29.0   |
|                                      | Control lever housing nut       | 15 - 20           | 1.5 - 2.0   | 10.5 - 14.5   |
|                                      | Extension rod nut               | 25 - 40           | 2.5 - 4.0   | 18.0 - 29.0   |
| <b>Transmission and Differential</b> | Oil drain plug and level plug   | 30 - 50           | 3.0 - 5.0   | 22.0 - 36.0   |
|                                      | Rear mounting bracket bolt      | 23 - 28           | 2.3 - 2.8   | 16.5 - 20.0   |
|                                      | Differential case bolt          | 80 - 100          | 8.0 - 10.0  | 58.0 - 72.0   |
| <b>Suspension</b>                    | Leaf spring U bolt nut          | 30 - 45           | 3.0 - 4.5   | 21.5 - 33.0   |
|                                      | Leaf spring front nut           | 45 - 70           | 4.5 - 7.0   | 32.5 - 51.0   |
|                                      | Leaf spring shackle pin nut     | 30 - 55           | 3.0 - 5.5   | 21.5 - 40.0   |
|                                      | Front strut support nut         | 18 - 28           | 1.8 - 2.8   | 13.0 - 20.0   |
|                                      | Front strut lock nut            | 40 - 60           | 4.0 - 6.0   | 28.5 - 43.5   |
|                                      | Front strut bracket lock nut    | 70 - 90           | 7.0 - 9.0   | 50.5 - 65.5   |
|                                      | Stabilizer bar castle nut       | 40 - 90           | 4.0 - 9.0   | 28.5 - 65.5   |
|                                      | Stabilizer bar mount bolt       | 30 - 55           | 3.0 - 5.5   | 21.5 - 40.0   |
|                                      | Wheel nut                       | 50 - 70           | 5.0 - 7.0   | 36.0 - 51.0   |
|                                      | Drive shaft castle nut          | 150 - 270         | 15.0 - 27.0 | 108.0 - 195.5 |
|                                      | Lower arm bolt                  | 50 - 70           | 5.0 - 7.0   | 36.0 - 51.0   |
|                                      | Lower ball joint bolt           | 50 - 65           | 5.0 - 6.5   | 36.0 - 47.0   |
|                                      | Rear axle castle nut            | 80 - 120          | 8.0 - 12.0  | 57.5 - 87.0   |

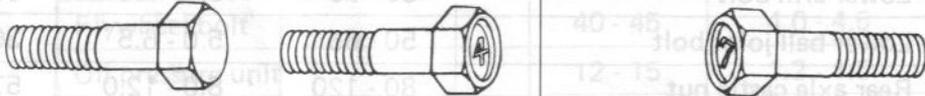
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| System                   | Fastening parts               | Tightening torque |             |             |
|--------------------------|-------------------------------|-------------------|-------------|-------------|
|                          |                               | N.m               | kg-m        | lb-ft       |
| Steering                 | Steering shaft nut            | 25 - 40           | 2.5 - 4.0   | 18.0 - 28.5 |
|                          | Steering shaft joint bolt     | 20 - 30           | 2.0 - 3.0   | 14.0 - 22.0 |
|                          | Steering column bolt          | 11 - 17           | 1.1 - 1.7   | 7.5 - 12.5  |
|                          | Steering gear case bolt       | 20 - 30           | 2.0 - 3.0   | 14.0 - 22.0 |
|                          | Steering pinion securing nut  | 55 - 80           | 5.5 - 8.0   | 40.0 - 57.5 |
|                          | Tie rod end lock nut          | 35 - 55           | 3.5 - 5.5   | 25.5 - 39.5 |
|                          | Tie rod end castle nut        | 40 - 55           | 4.0 - 5.5   | 28.5 - 39.5 |
| Brake                    | Rear brake backing plate bolt | 18 - 28           | 1.8 - 2.8   | 13.0 - 20.0 |
|                          | Brake master cylinder nut     | 25 - 40           | 2.5 - 4.0   | 18.0 - 28.5 |
|                          | Brake tube union nut          | 15 - 18           | 1.5 - 1.8   | 11.0 - 13.0 |
|                          | Brake flexible hose nut       | 20 - 40           | 2.0 - 4.0   | 14.5 - 28.5 |
|                          | Brake pipe 2-way joint bolt   | 8 - 10            | 0.8 - 1.0   | 5.5 - 7.0   |
|                          | Proportioning valve bolt      | 8 - 10            | 0.8 - 1.0   | 5.5 - 7.0   |
|                          | Brake bleeder plug            | 9 - 13            | 0.9 - 1.3   | 6.5 - 9.5   |
|                          | Wheel cylinder mounting nut   | 7 - 11            | 0.7 - 1.1   | 5.0 - 8.0   |
|                          | Front brake caliper pin bolt  | 22 - 32           | 2.2 - 3.2   | 15.5 - 23.0 |
|                          | Front brake disc bolt         | 40 - 60           | 4.0 - 6.0   | 28.5 - 43.0 |
|                          | Front brake carrier bolt      | 70 - 100          | 7.0 - 10.0  | 50.5 - 72.0 |
| Brake flexible hose bolt | 20 - 25                       | 2.0 - 2.5         | 14.0 - 18.0 |             |

For other bolts and nuts not listed above, refer to this chart:

### Tightening Torque

| Thread diameter (mm) |  |             |              |                 |             |               |
|----------------------|--|-------------|--------------|-----------------|-------------|---------------|
|                      | Conventional bolt  |             |              | "7" Marked bolt |             |               |
|                      | N.m  | kg-m        | lb-ft        | N.m             | kg-m        | lb-ft         |
| 4                    | 1 - 2  | 0.1 - 0.2   | 0.7 - 1.5    | 1.5 - 3.0       | 0.15 - 0.30 | 1.0 - 2.2     |
| 5                    | 2 - 4  | 0.2 - 0.4   | 1.4 - 2.9    | 3 - 6           | 0.3 - 0.6   | 2.1 - 4.5     |
| 6                    | 4 - 7  | 0.4 - 0.7   | 2.8 - 5.5    | 8 - 12          | 0.8 - 1.2   | 5.5 - 9.0     |
| 8                    | 10 - 16  | 1.0 - 1.6   | 7.0 - 12.0   | 18 - 28         | 1.8 - 2.8   | 13.0 - 20.5   |
| 10                   | 22 - 35  | 2.2 - 3.5   | 15.5 - 25.5  | 40 - 60         | 4.0 - 6.0   | 28.5 - 43.5   |
| 12                   | 35 - 55  | 3.5 - 5.5   | 25.0 - 40.0  | 70 - 100        | 7.0 - 10.0  | 50.5 - 72.5   |
| 14                   | 50 - 80  | 5.0 - 8.0   | 36.0 - 58.0  | 110 - 160       | 11.0 - 16.0 | 79.5 - 116.0  |
| 16                   | 80 - 130   | 8.0 - 13.0  | 57.5 - 94.5  | 170 - 250       | 17.0 - 25.0 | 122.5 - 181.0 |
| 18                   | 130 - 190  | 13.0 - 19.0 | 94.0 - 137.5 | 200 - 280       | 20.0 - 28.0 | 144.5 - 203.0 |

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### 2-2. Service Data

#### ENGINE

| Item                             |                                       | Standard  |  | Service Limit                                       |                        |       |  |
|----------------------------------|---------------------------------------|---|--|---|------------------------|-------|--|
| Compression pressure             |                                       | 13.5 kg/cm <sup>2</sup> (192.0 psi) 400 r/min                   |  | 10.0 kg/cm <sup>2</sup> (142.2 psi) 400 r/min       |                        |       |  |
|                                  | Difference between cylinders          | _____   |  | 1.0 kg/cm <sup>2</sup> (14.2 psi) 400 r/min         |                        |       |  |
| Valve clearance (Inlet, Exhaust) | Cold                                  | 0.13 ~ 0.18 mm (0.005 ~ 0.007 in.)                              |  | _____   |                        |       |  |
|                                  | Hot                                   | 0.23 ~ 0.28 mm (0.009 ~ 0.011 in.)                              |  | _____   |                        |       |  |
| Ignition Timing                  |                                       | 7° B.T.D.C. below 900 r/min (rpm)                               |  | _____   |                        |       |  |
| Cylinder head                    | Flatness of gasketed surface          |   | _____                                  |   | 0.05 mm (0.002 in.)    |       |  |
|                                  | Flatness of manifold seat             | Inlet   | _____                                  |   | 0.1 mm (0.004 in.)     |       |  |
|                                  |                                       | Outlet  | _____                                  |   | 0.1 mm (0.004 in.)     |       |  |
|                                  | Valve seat                            | Seating width   | Inlet                                  | 1.3 ~ 1.5 mm (0.0512 ~ 0.0590 in.)                  |                        | _____ |  |
|                                  |                                       |   | Exhaust                                | 1.3 ~ 1.5 mm (0.0512 ~ 0.0590 in.)                  |                        | _____ |  |
|                                  | Seating angle                         |   | 45°                                    |   | _____                  |       |  |
| Valve, Valve spring & Cam shaft  | Camshaft/Journal clearance            |   | 0.050 ~ 0.091 mm (0.0020 ~ 0.0036 in.) |   | 0.15 mm (0.0059 in.)   |       |  |
|                                  | Camshaft thrust clearance             |   | 0.050 ~ 0.150 mm (0.0020 ~ 0.0059 in.) |   | 0.30 mm (0.0118 in.)   |       |  |
|                                  | Cam height (Base circle + lift)       | Inlet   | 36.152 mm (1.4233 in.)                 |   | 36.100 mm (1.4212 in.) |       |  |
|                                  |                                       | Exhaust   | 36.152 mm (1.4233 in.)                 |   | 36.100 mm (1.4212 in.) |       |  |
|                                  |                                       | Fuel pump cam   | 33.300 mm (1.3110 in.)                 |   | 33.000 mm (1.2992 in.) |       |  |
|                                  | Camshaft deflection                   |   | _____                                  |   | 0.10 mm (0.0039 in.)   |       |  |
|                                  | Valve stem diameter                   | Inlet   | 6.965 ~ 6.980 mm (0.2742 ~ 0.2748 in.) |   | _____                  |       |  |
|                                  |                                       | Exhaust   | 6.955 ~ 6.970 mm (0.2738 ~ 0.2744 in.) |   | _____                  |       |  |
|                                  | Valve guide I.D.                      | Inlet   | 7.000 ~ 7.015 mm (0.2755 ~ 0.2761 in.) |   | _____                  |       |  |
|                                  |                                       | Exhaust   | 7.000 ~ 7.015 mm (0.2755 ~ 0.2761 in.) |   | _____                  |       |  |
|                                  | Valve guide-to-valve stem clearance   | Inlet   | 0.020 ~ 0.050 mm (0.0008 ~ 0.0019 in.) |   | 0.07 mm (0.0027 in.)   |       |  |
|                                  |                                       | Exhaust   | 0.030 ~ 0.060 mm (0.0012 ~ 0.0023 in.) |   | 0.09 mm (0.0035 in.)   |       |  |
|                                  | Thickness of valve head periphery     | Inlet   | 0.80 ~ 1.20 mm (0.0315 ~ 0.0472 in.)   |   | 0.6 mm (0.0236 in.)    |       |  |
|                                  |                                       | Exhaust   | 0.80 ~ 1.20 mm (0.0315 ~ 0.0472 in.)   |   | 0.7 mm (0.0275 in.)    |       |  |
|                                  | Contact width of valve and valve seat | Inlet   | 1.3 ~ 1.5 mm (0.0512 ~ 0.0590 in.)     |   | _____                  |       |  |
| Exhaust                          |                                       | 1.3 ~ 1.5 mm (0.0512 ~ 0.0590 in.)                              |  | _____   |                        |       |  |
| Valve spring free length         | Inlet                                 | 47.7 mm (1.8779 in.)  |  | 46.5 mm (1.8307 in.)                                |                        |       |  |
|                                  | Exhaust                               | 47.7 mm (1.8779 in.)  |  | 46.5 mm (1.8307 in.)                                |                        |       |  |
| Valve spring preload             | Inlet                                 | 26 ~ 30 kg (57.3 ~ 66.1 lb) for fitting length 40 mm (1.57 in.) |  | 24 kg (52.9 lb) for fitting length 40 mm (1.57 in.) |                        |       |  |
|                                  | Exhaust                               | 26 ~ 30 kg (57.3 ~ 66.1 lb) for fitting length 40 mm (1.57 in.) |  | 24 kg (52.9 lb) for fitting length 40 mm (1.57 in.) |                        |       |  |

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| Item                             |                                      | Standard                                 | Service Limit                            |                      |
|----------------------------------|--------------------------------------|--|--|----------------------|
| Rocker arm shaft and rocker arm  | Rocker shaft O.D.                    | 14.965 ~ 14.980 mm (0.589 ~ 0.590 in.)   | _____                                    |                      |
|                                  | Rocker arm I.D.                      | 14.985 ~ 15.005 mm (0.590 ~ 0.591 in.)   | _____                                    |                      |
|                                  | Shaft-to-arm clearance               | Inlet                                    | 0.005 ~ 0.040 mm (0.0002 ~ 0.0016 in.)   | 0.07 mm (0.0027 in.) |
|                                  |                                      | Exhaust                                  | 0.005 ~ 0.040 mm (0.0002 ~ 0.0016 in.)   | 0.07 mm (0.0027 in.) |
| Rocker shaft deflection          |                                      | _____                                    | 0.06 mm (0.0023 in.)                     |                      |
| Cylinder                         | Flatness of gasketed surface         |  | _____                                    |                      |
|                                  | Cylinder bore (S.T.D.)               |  | 68.505 ~ 68.520 mm (2.6970 ~ 2.6976 in.) |                      |
|                                  | Difference in bore between cylinders |  | _____                                    |                      |
|                                  | Wear limit on bore                   |  | _____                                    |                      |
|                                  | Cylinder-to-piston clearance         |  | 0.045 ~ 0.055 mm (0.0018 ~ 0.0022 in. )  |                      |
| Piston                           | Piston diameter                      | Standard                                 | 68.450 ~ 68.475 mm(2.6949 ~ 2.6959 in.)  |                      |
|                                  |                                      | Oversize:0.25 mm(0.0098in.)              | 68.700 ~ 68.725 mm(2.7047 ~ 2.7057 in.)  |                      |
|                                  |                                      | Oversize:0.50 mm(0.0196in.)              | 68.950 ~ 68.975 mm(2.7146 ~ 2.7155 in.)  |                      |
|                                  | Piston ring groove width             | Top ring                                 | 1.52 ~ 1.54 mm (0.0598 ~ 0.0606 in.)     | _____                |
|                                  |                                      | 2nd ring                                 | 1.51 ~ 1.53 mm (0.0594 ~ 0.0602 in.)     | _____                |
|                                  |                                      | Oil ring                                 | 2.81 ~ 2.83 mm (0.1106 ~ 0.1114 in.)     | _____                |
|                                  | Piston pin diameter                  |  | 15.995 ~ 16.000mm(0.6297 ~ 0.6299 in.)   | _____                |
| Piston pin clearance in con. rod |                                      | 0.003 ~ 0.016 mm (0.0001 ~ 0.0006 in.)   | 0.05 mm (0.0020 in.)                     |                      |
| Piston ring                      | Piston ring thickness                | Top ring                                 | 1.47 ~ 1.49 mm (0.0578 ~ 0.0586 in.)     |                      |
|                                  |                                      | 2nd ring                                 | 1.47 ~ 1.49 mm (0.0578 ~ 0.0586 in.)     |                      |
|                                  |                                      | Oil ring                                 | 0.45 mm (0.0177 in.)                     |                      |
|                                  | Ring clearance in groove             | Top ring                                 | 0.03 ~ 0.07 mm (0.0012 ~ 0.0027 in.)     | 0.12 mm (0.0047 in.) |
|                                  |                                      | 2nd ring                                 | 0.02 ~ 0.06mm (0.0008 ~ 0.0023 in.)      | 0.10 mm (0.0039 in.) |
|                                  | Piston ring end gap                  | Top ring                                 | 0.15 ~ 0.35 mm (0.0059 ~ 0.0137 in.)     | 0.7 mm (0.0275 in.)  |
|                                  |                                      | 2nd ring                                 | 0.10 ~ 0.30 mm (0.0039 ~ 0.0118 in.)     | 0.7 mm (0.0275 in.)  |
|                                  |                                      | Oil ring                                 | 0.30 ~ 0.90 mm (0.0118 ~ 0.0354 in.)     | 1.8 mm (0.0708 in.)  |
|                                  | Crankshaft                           | Crankshaft deflection (middle)           |  | _____                |
| Crank pin diameter               |                                      | 37.985 ~ 38.000mm (1.4954 ~ 1.4960 in.)  |  |                      |
| Crank pin clearance in con. rod  |                                      | 0.020 ~ 0.040 mm (0.0008 ~ 0.0016 in.)   |  |                      |
| Connecting rod small end bore    |                                      | 16.003 ~ 16.011 mm (0.6300 ~ 0.6303 in.) |  |                      |
| Crank journal diameter           |                                      | 49.985 ~ 50.000 mm (1.9679 ~ 1.9685 in.) |  |                      |
| Bearing-to-journal clearance     |                                      | 0.020 ~ 0.040 mm (0.0008 ~ 0.0016 in.)   |  |                      |

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| Item       |   | Standard |                                      | Service Limit        |
|------------|---|----------|--------------------------------------|----------------------|
| Crankshaft | Crankshaft thrust play                  |          | 0.13 ~ 0.28 mm (0.0051 ~ 0.0110 in.) | 0.35 mm (0.0138 in.) |
|            | Connecting rod big end thrust clearance |          | 0.10 ~ 0.20 mm (0.0039 ~ 0.0078 in.) | 0.30 mm (0.0118 in.) |
|            | Connecting rod                          | Twist    | _____                                | 0.10 mm (0.0039 in.) |
|            |   | Bow      | _____                                | 0.05 mm (0.0020 in.) |

## CLUTCH & TRANSMISSION

| Item                                    |  | Standard                             |                                      | Service Limit       |                   |
|---|--|--------------------------------------|--------------------------------------|---------------------|-------------------|
| Clutch                                  | Pedal play   |                                      | 15 - 25 mm (0.6 - 1.0 in.)           | _____               |                   |
|   | Facing wear (Rived head depression)                |                                      | 1.2 mm (0.05 in.)                    | 0.5 mm (0.02 in.)   |                   |
|   | Facing-input shaft serration backlash              |                                      | _____                                | 0.5 mm (0.02 in.)   |                   |
|   | Clutch release arm play                            |                                      | 2 ~ 4 mm (0.08 ~ 0.16 in.)           | _____               |                   |
| Transmission                            | Clearance between gears and rings                  |                                      | 0.8 ~ 1.2 mm (0.03 ~ 0.05 in.)       | 0.5 mm (0.02 in.)   |                   |
|   | Key slot width of synchronizer ring                |                                      | Low gear                             | 7.8 mm (0.31 in.)   | 8.1 mm (0.32 in.) |
|   |  |                                      | Second, third and top gear           | 9.6 mm (0.38 in.)   | 9.9 mm (0.39 in.) |
|   | Fork shaft locating spring & Gear shift arm spring | Free length                          | 19.5 mm (0.767 in.)                  | 17.0 mm (0.669 in.) |                   |
|   | Low & second gear backlash                         |                                      | 0.10 ~ 0.15 mm (0.0039 ~ 0.0059 in.) | 0.3 mm (0.0118 in.) |                   |
|   | Third & top gear backlash                          |                                      | 0.15 ~ 0.20 mm (0.0059 ~ 0.0078 in.) | 0.3 mm (0.0118 in.) |                   |
| Reverse gear-reverse idle gear backlash |  | 0.15 ~ 0.30 mm (0.0059 ~ 0.0118 in.) | 0.4 mm (0.0157 in.)                  |                     |                   |

## LUBRICATION

| Item                                |   | Standard                                       |  | Service Limit        |
|-------------------------------------|---|--|--|----------------------|
| Lubrication                         | Outer gear periphery clearance in pump case |  | 0.05 ~ 0.10 mm (0.0020 ~ 0.0039 in.)   | 0.15 mm (0.0059 in.) |
|                                     | Outer gear tooth clearance in pump case     |  | 0.058 ~ 0.310 mm (0.0023 ~ 0.0122 in.) | _____                |
|                                     | Inner gear tooth clearance in pump case     |  | 0.177 ~ 0.328 mm (0.0070 ~ 0.0129 in.) | _____                |
|                                     | Oil pump side clearance (flatness)          |  | 0.035 ~ 0.085 mm (0.0014 ~ 0.0033 in.) | 0.15 mm (0.0059 in.) |
|                                     | Oil relief valve spring                     | Free length                                    | 45 mm (1.77 in.)                       | _____                |
|                                     |   | 10.7 mm (0.42 in) Compressive force            | 6.206 kg (13.681 lb)                   | 5.300 kg (11.684 lb) |
| Set pressure of oil pressure switch |   | 0.2 ~ 0.4 kg/cm <sup>2</sup> (2.84 ~ 5.68 psi) | _____                                  |                      |

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### COOLING SYSTEM

| Item  | Standard                   | Service Limit |
|---|----------------------------|---------------|
| Fan belt tension as deflection under 10 kg (22 lb) push applied to middle point between pulleys | 10 ~ 15 mm (0.4 ~ 0.6 in.) | _____         |
| Thermostat start-to-open temperature  | 82°C (179°F)               | _____         |
| Thermostat full-open temperature  | 95°C (203°F)               | _____         |
| Valve lift  | 8 mm (0.31 in.)            | _____         |

### DIFFERENTIAL

| Item                | Standard                           | Service Limit |
|---------------------|------------------------------------|---------------|
| Side gear backlash  | 0.05 ~ 0.10 mm (0.002 ~ 0.004 in.) | _____         |
| Final gear backlash | 0.08 ~ 0.12 mm (0.003 ~ 0.005 in.) | _____         |

### SUSPENSION

| Item                          | Standard  | Service Limit |
|-------------------------------|---|---------------|
| Front coil spring rate        | 1.48 kg/mm (83 lb/in.)  | _____         |
| Rear leaf spring rate         | 2.17 kg/mm (122 lb/in.) * 2.6 kg/mm (145.6 lb/in.)              | _____         |
| Front coil spring free length | 352 mm (13.9 in.)   | _____         |
| Rear leaf spring free height  | 135.5 mm (5.33 in.) ● 127.5 mm (5.02 in.)<br>* 156 mm (6.1 in.) | _____         |
| Front strut stroke            | 135 mm (5.3 in.)  | _____         |
| Rear shock absorber stroke    | 160 mm (6.3 in.) * 175 mm (6.9 in.)                             | _____         |

- \* For rear leaf spring of three-leaf type
- For the right side leaf spring of a left hand steering vehicle.

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### STEERING SYSTEM

| Item                    | Standard                     | Service Limit   |
|-------------------------|------------------------------|---|
| Gear ratio (gear case)  | 17.5 : 1                     | _____   |
| Steering angle, inside  | 38°                          | _____   |
| Steering angle, outside | 32°                          | _____   |
| Minimum turning radius  | 4.4 m (14.4 ft.)             | _____   |
| Tire inflating pressure | Front                        | 190 kPa (1.9 kg/cm <sup>2</sup> , 27 psi)   |
|                         | Rear                         | 190 kPa (1.9 kg/cm <sup>2</sup> , 27 psi)<br>*220 kPa (2.2 kg/cm <sup>2</sup> , 31 psi) |
| Toe-in                  | 2 ~ 4 mm (0.079 ~ 0.157 in.) | _____   |
| Camber angle            | 1° 20'                       | _____   |
| Trail                   | 13 mm (0.51 in.)             | _____   |
| King pin inclination    | 12° 50'                      | _____   |
| Caster angle            | 3° 15'                       | _____   |

\* For vehicle with rear leaf spring of three-leaf type

### BRAKE

| Item  | Standard                 | Service Limit       |
|---|--------------------------|---------------------|
| Brake drum inside diameter  | 180 mm (7.087 in.)       | 182 mm (7.165 in.)  |
| Brake drum "out-of-round"   | 0 mm (0 in.)             | 0.5 mm (0.02 in.)   |
| Brake lining thickness (lining + shoe rim)                          | 7.0 mm (0.27 in.)        | 3.0 mm (0.12 in.)   |
| Pedal-to-wall clearance<br>When pedal is depressed at 30 kg (66 lb) | 50 mm (1.97 in.) minimum |                     |
| Brake disc thickness  | 11 mm (0.433 in.)        | 9.5 mm (0.374 in.)  |
| Brake disc deflection   | _____                    | 0.15 mm (0.006 in.) |
| Pad thickness (lining + pad rim)                                    | 15.5 mm (0.610 in.)      | 6.5 mm (0.256 in.)  |

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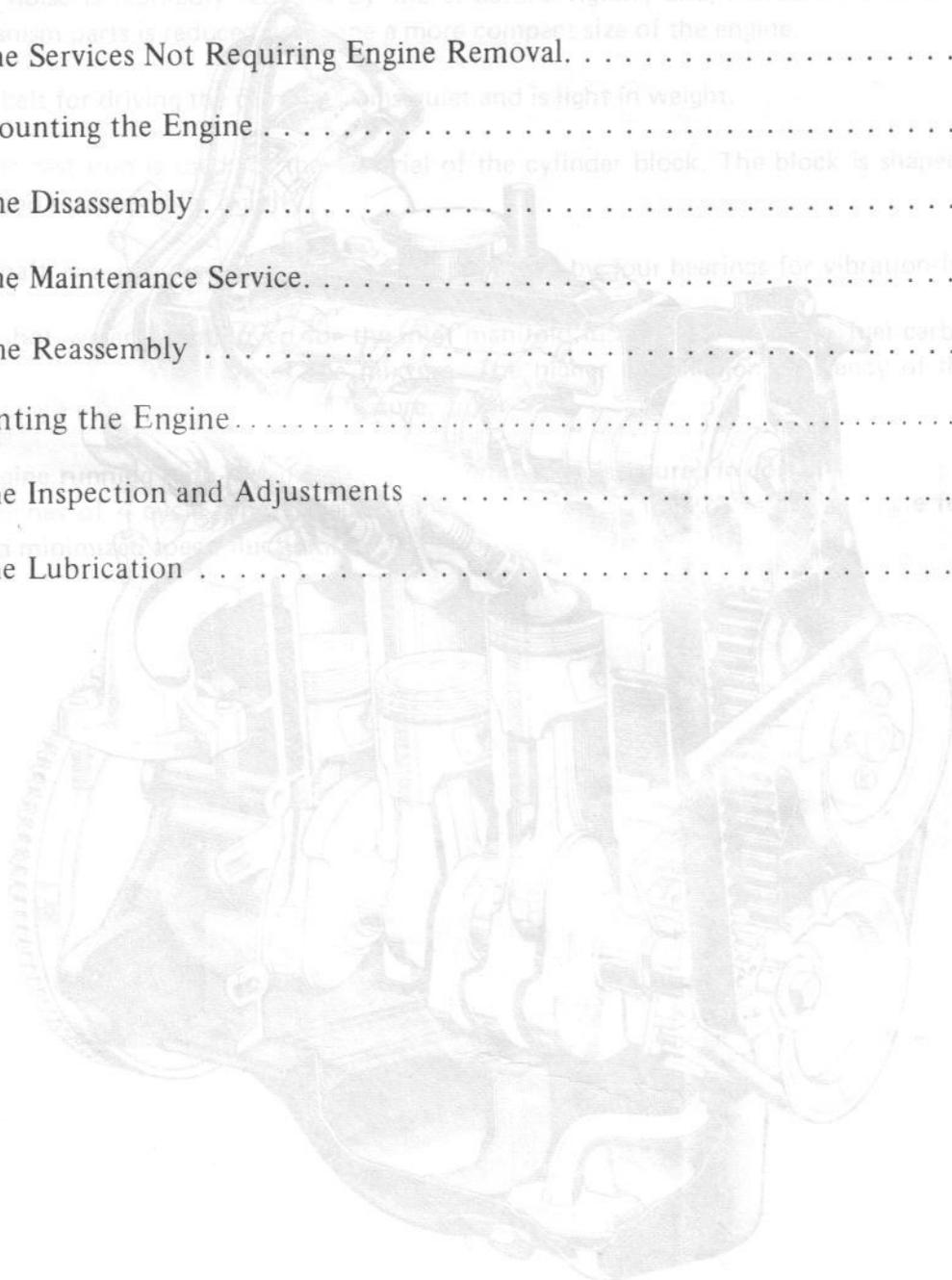
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### ELECTRICAL

|                          | Item  | Standard  | Service Limit      |
|--------------------------|---|---|--------------------|
| Ignition system          | Ignition timing                             | 7° B.T.D.C. below 900 r/min (rpm)               | _____              |
|                          | Ignition order                              | 1 - 3 - 2                                       | _____              |
|                          | Breaker point gap                           | 0.4 - 0.5 mm (0.016 - 0.019 in.)                | _____              |
|                          | Cam dwell angle                             | 62°   | _____              |
|                          | Condenser capacitance                       | 0.25 microfarad                                 | _____              |
|                          | Ignition coil, Primary winding resistance   | About 3 ohm (inclusive of the 1.5-ohm resistor) | _____              |
|                          | Ignition coil; Secondary winding resistance | About 8 kilohms                                 | _____              |
| Starter motor            | Voltage                                     | 12 Volts  | _____              |
|                          | Output                                      | 0.6 kw  | _____              |
|                          | Rating                                      | 30 seconds                                      | _____              |
|                          | Brush length                                | 19 mm (0.75 in.)                                | 12 mm (0.47 in.)   |
|                          | Number of pinion teeth                      | 9   | _____              |
|                          | Commutator diameter                         | 32.5 mm (1.28 in.)                              | _____              |
|                          | Mica undercut                               | 0.5 - 0.8 mm (0.02 - 0.03 in.)                  | 0.2 mm (0.007 in.) |
| Charging system          | Nominal operating voltage                   | 12 Volts  | _____              |
|                          | Maximum alternator output                   | 40A   | _____              |
|                          | Effective pulley diameter                   | 65 mm (2.56 in.)                                | _____              |
|                          | Maximum permissible alternator speed        | 13,500 r/min (rpm)                              | _____              |
|                          | Working temperature range                   | -40 - 80° C (-104 - 176° F)                     | _____              |
|                          | Rotor; Ring-to-ring circuit resistance      | Several ohms                                    | _____              |
|                          | Brush length                                | 13.5 mm (0.53 in.)                              | 5.0 mm (0.20 in.)  |
|                          | Standard output voltage and current         | 13.8 - 14.8 Volts, 20 A minimum                 | _____              |
|                          | Regulated Voltage                           | 13.8 - 14.8 Volts                               | _____              |
|                          | Voltage-relay cut in Voltage                | 4.2 ~ 5.2 Volts                                 | _____              |
| Field circuit resistance | Several ohms                                | _____   |                    |

**4. ENGINE**

|  |      |
|--|------|
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- 1) The engine is a water-cooled, in-line 3 cylinders, 4-stroke cycle gasoline unit with its S.O.H.C. (single overhead camshaft) valve mechanism arranged for "V"-type valve configuration.

The single overhead camshaft (S.O.H.C.) is mounted over the cylinder head; it is driven from crankshaft through timing belt. Unlike conventional overhead valve (O.H.V.) engines, this engine has no pushrods. Thus, drive for valves is more direct and enables the valves to follow the crankshaft without any delay.

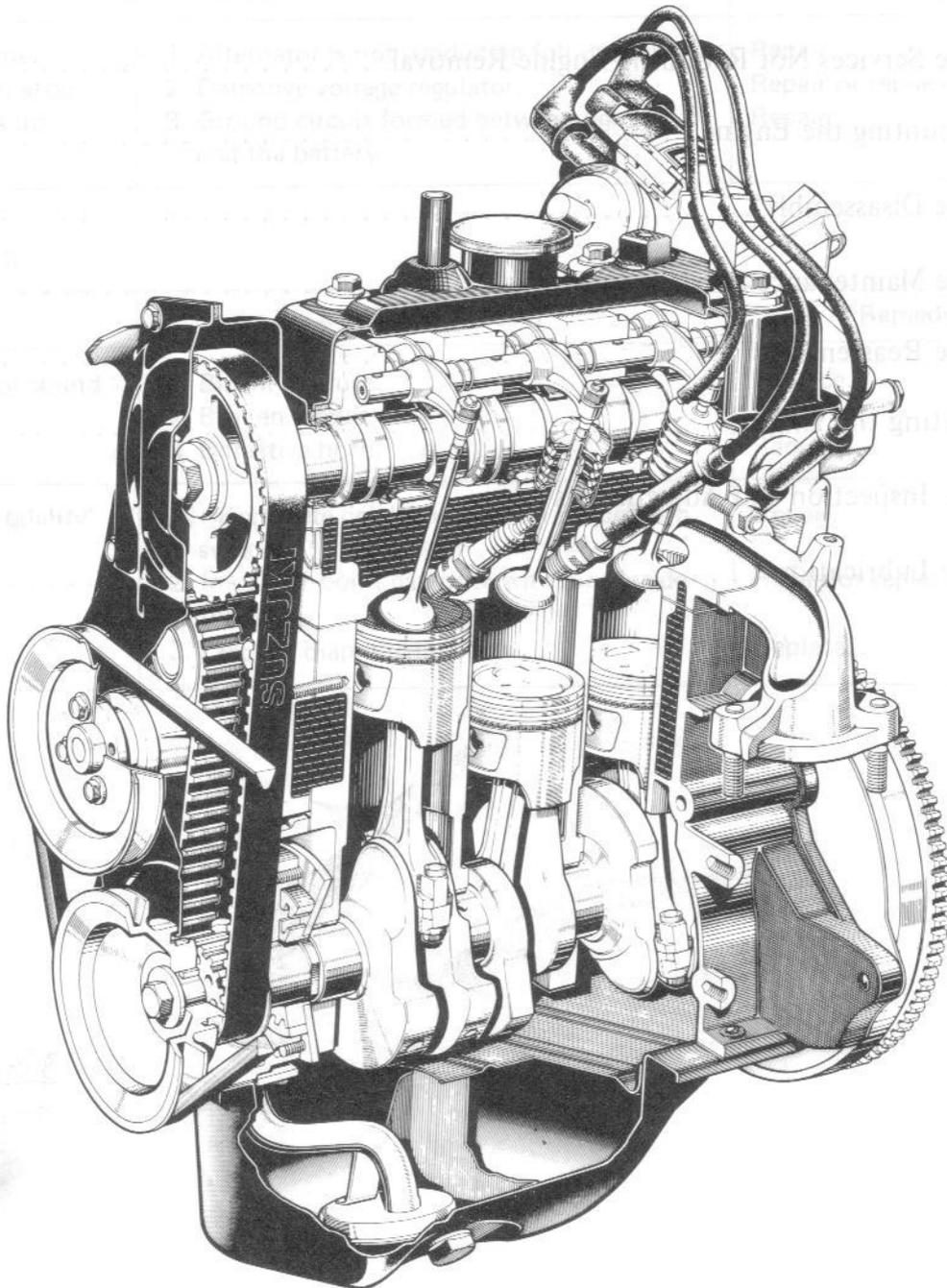


Fig. 4-1

Sample of manual. Download All 173 pages at:

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