

# MAINTENANCE SERVICE

## ENGINE

### 1.1

#### Water Pump Belt Inspection

##### WARNING:

Disconnect negative cable of battery before checking and adjusting belt tension.

- 1) Inspect belt for cracks, cuts, deformation, wear and cleanliness. Replace, if necessary.
- 2) Check pump belt for tension and adjust it as necessary. Refer to SECTION 88 for its procedure.

### 1.2 & 1.3

#### Engine Oil and Filter Change

It is recommended to use engine oil of API grade SF or SF/CC class.

Always change oil and oil filter as soon as possible after driving in a dust storm.

See your Owner's Manual for further details.

##### NOTE:

For temperature below 32°F (0°C), it is highly recommended to use SAE 8W - 30 oil.

#### Proper Engine Oil Viscosity Chart

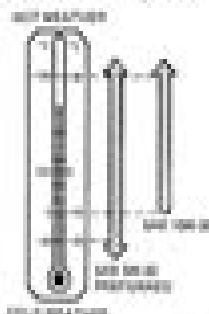


Fig. 88-1.7

Before draining engine oil, check engine for oil leakage. If any evidence of leakage is found, make sure to correct defective part before proceeding to following work.

- 1) Drain engine oil by removing drain plug.
- 2) After draining oil, wipe drain plug clean. Reinstall drain plug, and tighten it securely as specified in figure below.

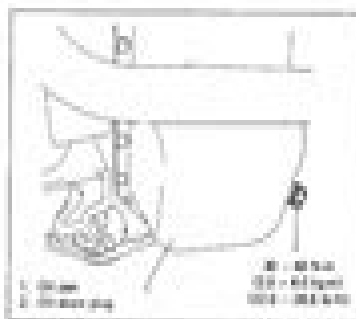


Fig. 88-1.2

- 3) Loosen oil filter by using oil filter wrench (Special tool).

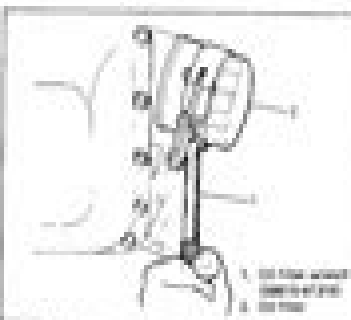


Fig. 88-1.3

##### NOTE:

Before fitting new oil filter, be sure to apply engine oil to its "O" ring.

- 4) Screw new filter on oil filter stand by hand until filter "O" ring contacts mounting surface.

##### CAUTION:

To tighten oil filter properly, it is important to accurately identify the position at which filter "O" ring first contacts mounting surface.

- 5) Using oil filter wrench, tighten filter 3/8 turn from contact point described above.

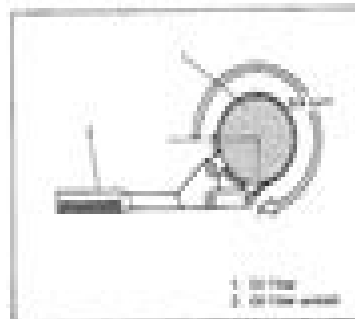


Fig. 88-1.4

- 6) Replace oil until oil level is brought to FULL level mark on dipstick. (about 5.2 liters or 5.6/5.8 US/Imp qt.). Filter level is at the top of cylinder head cover.

- 7) Start engine and run it for three minutes. Stop it and wait another 3 minutes before checking oil level. Add oil, as necessary, to bring oil level to FULL level mark on dip stick.

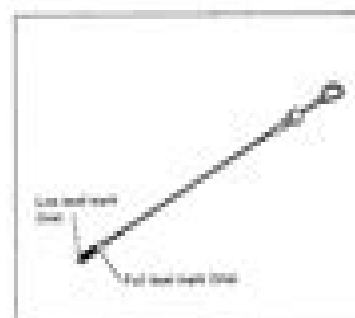


Fig. 88-1.5

#### Engine oil capacity

Oil pan capacity	about 2.1 liters (2.2/2.3 US/Imp qt.)
Oil filter capacity	about 3.2 liters (3.4/3.5 US/Imp qt.)
Others	about 0.2 liters (0.2/0.3 US/Imp qt.)
Total	about 5.5 liters (5.8/6.1 US/Imp qt.)

##### NOTE:

Engine oil capacity is specified as above. However, note that amount of oil required when actually changing oil may somewhat differ from data in above table depending on various conditions (temperature, viscosity, etc.).

- 8) Check oil filter and drain plug for oil leakage.

### 1.4

#### Cooling System, Hoses and Connections Inspection

- 1) Visually inspect cooling system hoses for any evidence of leakage and cracks. Examine them for damage, and check connection clamps for tightness.



Fig. 88-1.6

- 2) Replace all hoses which show evidence of leakage, cracks or other damage. Replace all clamps which cannot maintain proper tightness.

# Metro 99 Repair Manual

**Ken Freund, John Harold Haynes**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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## **Table of Contents Metro 99 Repair Manual**

1. Understanding the eBook Metro 99 Repair Manual
  - The Rise of Digital Reading Metro 99 Repair Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Metro 99 Repair Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Metro 99 Repair Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Metro 99 Repair Manual

- 
- Personalized Recommendations
  - Metro 99 Repair Manual User Reviews and Ratings
  - Metro 99 Repair Manual and Bestseller Lists
5. Accessing Metro 99 Repair Manual Free and Paid eBooks
    - Metro 99 Repair Manual Public Domain eBooks
    - Metro 99 Repair Manual eBook Subscription Services
    - Metro 99 Repair Manual Budget-Friendly Options
  6. Navigating Metro 99 Repair Manual eBook Formats
    - ePub, PDF, MOBI, and More
    - Metro 99 Repair Manual Compatibility with Devices
    - Metro 99 Repair Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Metro 99 Repair Manual
    - Highlighting and Note-Taking Metro 99 Repair Manual
    - Interactive Elements Metro 99 Repair Manual
  8. Staying Engaged with Metro 99 Repair Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Metro 99 Repair Manual
  9. Balancing eBooks and Physical Books Metro 99 Repair Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Metro 99 Repair Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Metro 99 Repair Manual
    - Setting Reading Goals Metro 99 Repair Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Metro 99 Repair Manual

- 
- Fact-Checking eBook Content of Metro 99 Repair Manual
  - Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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