

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

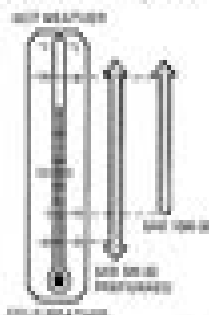


Fig. 88-1.1

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.

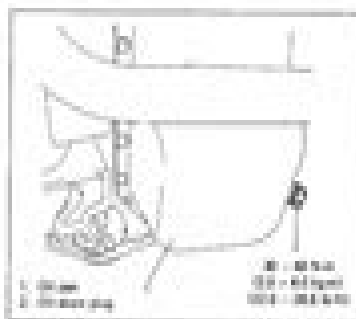


Fig. 88-1.2

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

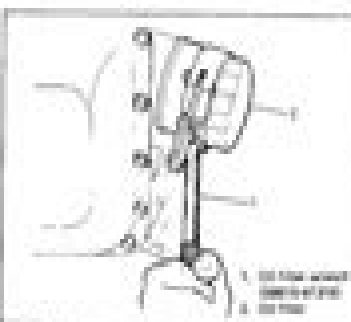


Fig. 88-1.3

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.

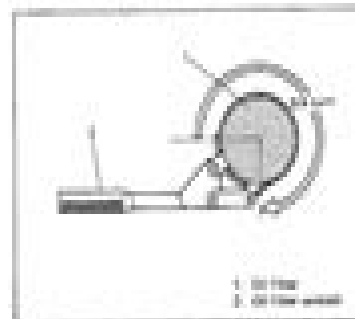


Fig. 88-1.4

- 6) Replace oil until oil level is brought to FULL level mark on dipstick. (about 3.2 liters or 8.5 U.S. (U.S./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.

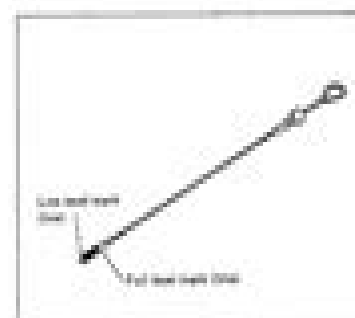


Fig. 88-1.5

Engine oil capacity

Oil pan capacity	about 3.1 liters (8.5 U.S./imp. qt.)
Oil filter capacity	about 3.2 liters (8.5 U.S./imp. qt.)
Others	about 3.3 liters (8.8 U.S./imp. qt.)
Total	about 9.6 liters (25.6 U.S./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.

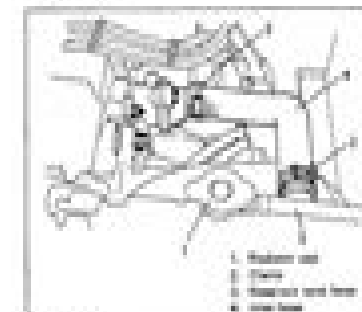


Fig. 88-1.6

- 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

Sebastian Brünink

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

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