
ENGINE LUBRICATION

CONTENTS

GENERAL	2	ON-VEHICLE SERVICE <4G64>	3
Outline of Change	2	Engine Oil Check	3
LUBRICANTS	2	Engine Oil Replacement	3
SPECIAL TOOL	2	Oil Filter Replacement	4

GENERAL

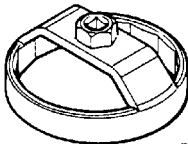
OUTLINE OF CHANGE

4G64-GDI engines have been introduced. Accordingly, service procedures have been added as follows.

LUBRICANTS

Items		4G64
Engine oil (API classification)		SG or higher
Engine oil quantity L	Oil filter	0.3
	Total	4.3

SPECIAL TOOL

Tool	Number	Name	Use
 8991610	MB991610	Oil filter wrench	Removal and installation of engine oil filter (When using the oil filter of MD136466 and MD356000)

ON-VEHICLE SERVICE <4G64>

ENGINE OIL CHECK

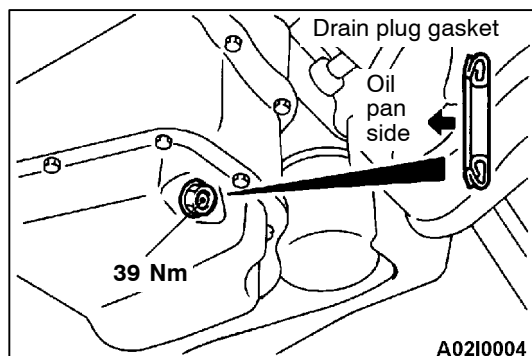
1. Pull out the level gauge slowly and check that the oil level is in the illustrated range.
2. Check that the oil is not excessively dirty, that there is no coolant or gasoline mixed in, and that it has sufficient viscosity.

ENGINE OIL REPLACEMENT

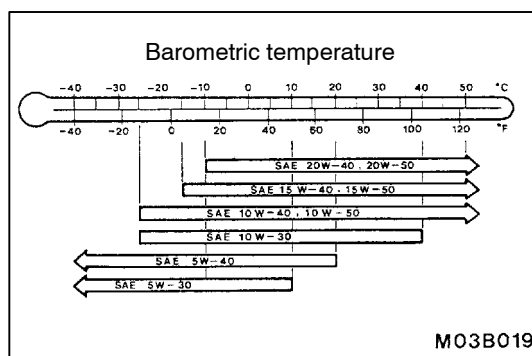
1. Start the engine and warm it up until the coolant reaches 80 to 90°C.
2. Remove the engine oil filler cap.
3. Remove the drain plug to drain oil.

Caution

Use care as oil could be hot.



4. Install a new drain plug gasket so that it faces as shown, and then tighten the drain plug to the specified torque.

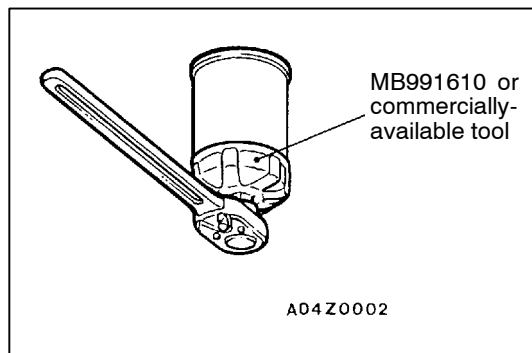


5. Refill with specified quantity of oil.

Specified Engine Oil (API classification):
SG or higher

Total quantity (Includes volume inside oil filter):
4.3 L

6. Install the engine oil filler cap.
7. Check oil level.



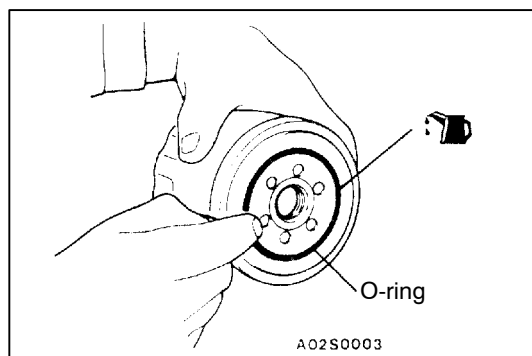
OIL FILTER REPLACEMENT

1. Start the engine and warm it up until the coolant reaches 80 to 90°C.
2. Remove the engine oil filler cap.
3. Remove the drain plug to drain oil.

Caution

Use care as oil could be hot.

4. Remove the under cover.
5. Use the respective tool in the following table to remove the engine oil filter.
6. Clean the filter bracket side mounting surface.



7. Apply a small amount of engine oil to the O-ring of the new oil filter.
8. Once the O-ring of the oil filter is touching the flange, use the respective tool in the following table to tighten to the specified torque.
9. Install the drain plug and refill engine oil. (Refer to Engine Oil Replacement on P.12-3.)
10. Race the engine 2 to 3 times, and check that no engine oil leaks from installation section of the oil filter.

Number	Tool	Tightening torque
MD136466	MB991610 or equivalent tool	Approx. 3/4 turn (17 Nm)
MD322508	Commercially-available tool	Approx. 3/4 turns (17 Nm)
MD356000	MB991610 or equivalent tool	Approx. 3/4 turn (14 Nm)