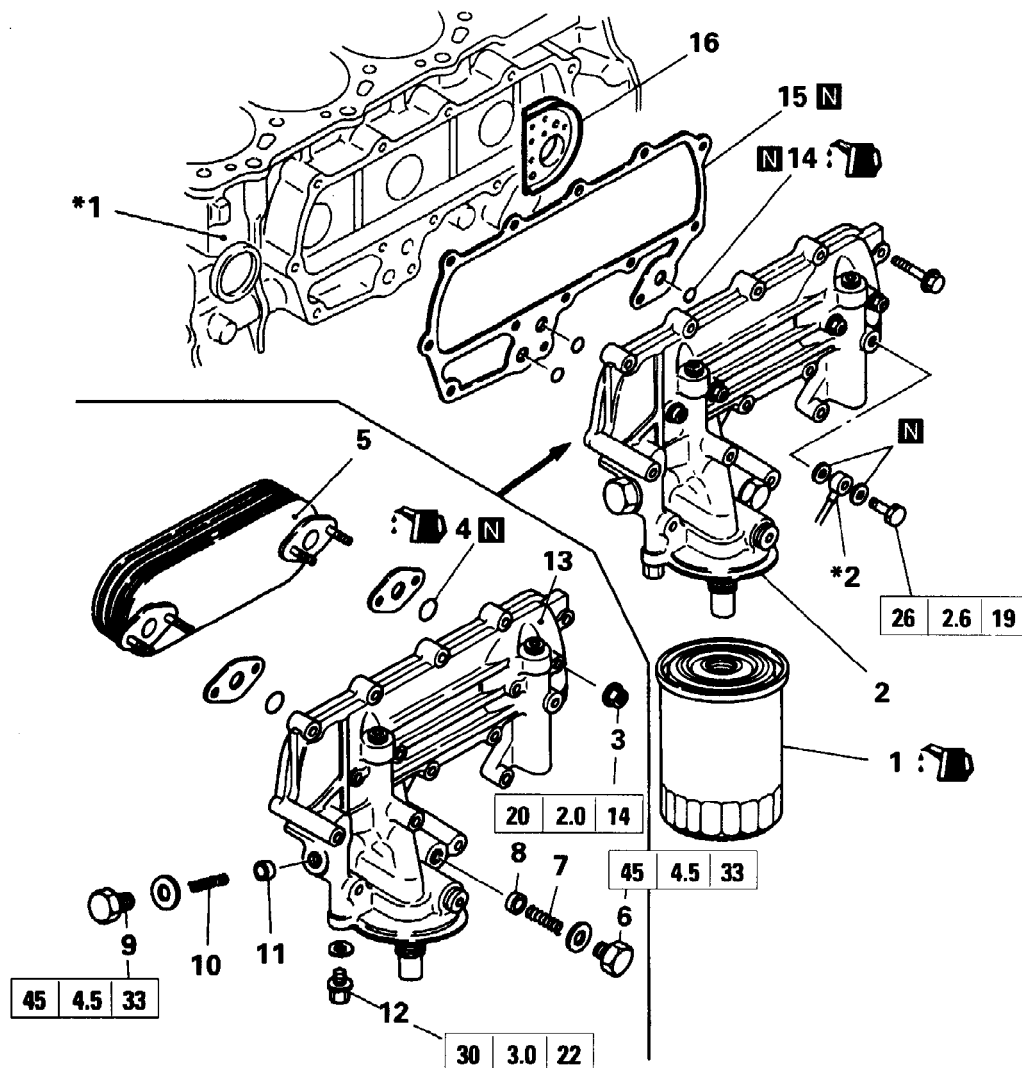


15. OIL COOLER AND OIL FILTER

REMOVAL AND INSTALLATION



Removal steps

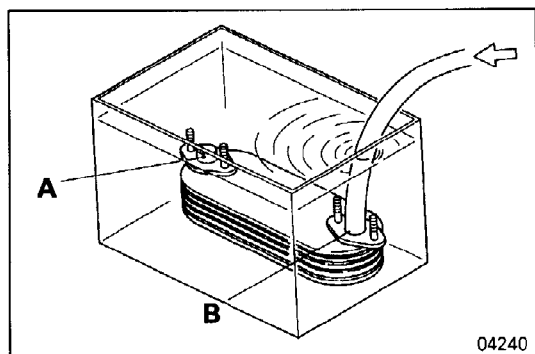
- ➡ 1. Oil filter
2. Oil cooler assembly
3. Nut
4. O-ring
5. Oil cooler element
6. Plug
7. Bypass valve spring
8. Plunger
9. Plug
10. Regulator valve spring

11. Plunger
12. Water drain plug
13. Oil cooler body
14. O-ring
15. Gasket
16. Water separate lip (CHALLENGER and 1998– PAJERO for Europe)

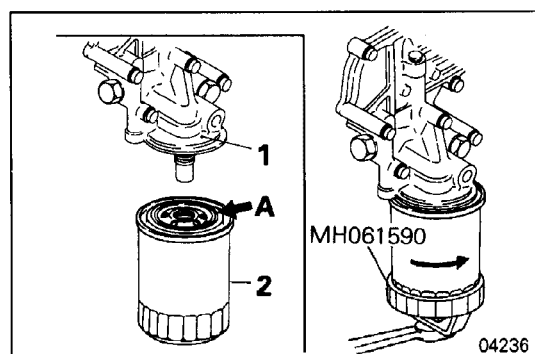
- *1: Crankcase assembly
*2: Turbocharger water inlet pipe

CLEANING

- (1) Check the oil cooler element **5** for deposited carbon and sludge in oil passage and bypass, and wash it clean in cleaning oil, if necessary.
- (2) Wash the oil cooler element **5** and the oil cooler cover **12** if they are much contaminated with scale.

**INSPECTION****OIL COOLER ELEMENT**

- (1) Immerse the oil cooler element **5** in a water tank, with the oil outlet **A** closed. Connect a hose to the engine oil inlet **B**.
- (2) Apply an air pressure of 300 kPa (3 kg/cm², 43 psi) into the oil cooler element **5** through the connected hose, and check for air leaks.
- (3) Replace the oil cooler element **5** if it leaks.

**INSTALLATION SERVICE POINTS****◆A◆ OIL FILTER INSTALLATION**

- (1) Clean the surface of the oil cooler body **1** which contacts the oil filter **2**.
- (2) Apply a thin coat of engine oil to the gasket **A** on the oil filter **2**.
- (3) Holding the gasket **A** in contact with the oil cooler cover **1**, tighten the cover 5/8 turn (for PAJERO) or 3/4 turn (for L200).