
GROUP 12

**ENGINE
LUBRICATION**

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GENERAL DESCRIPTION

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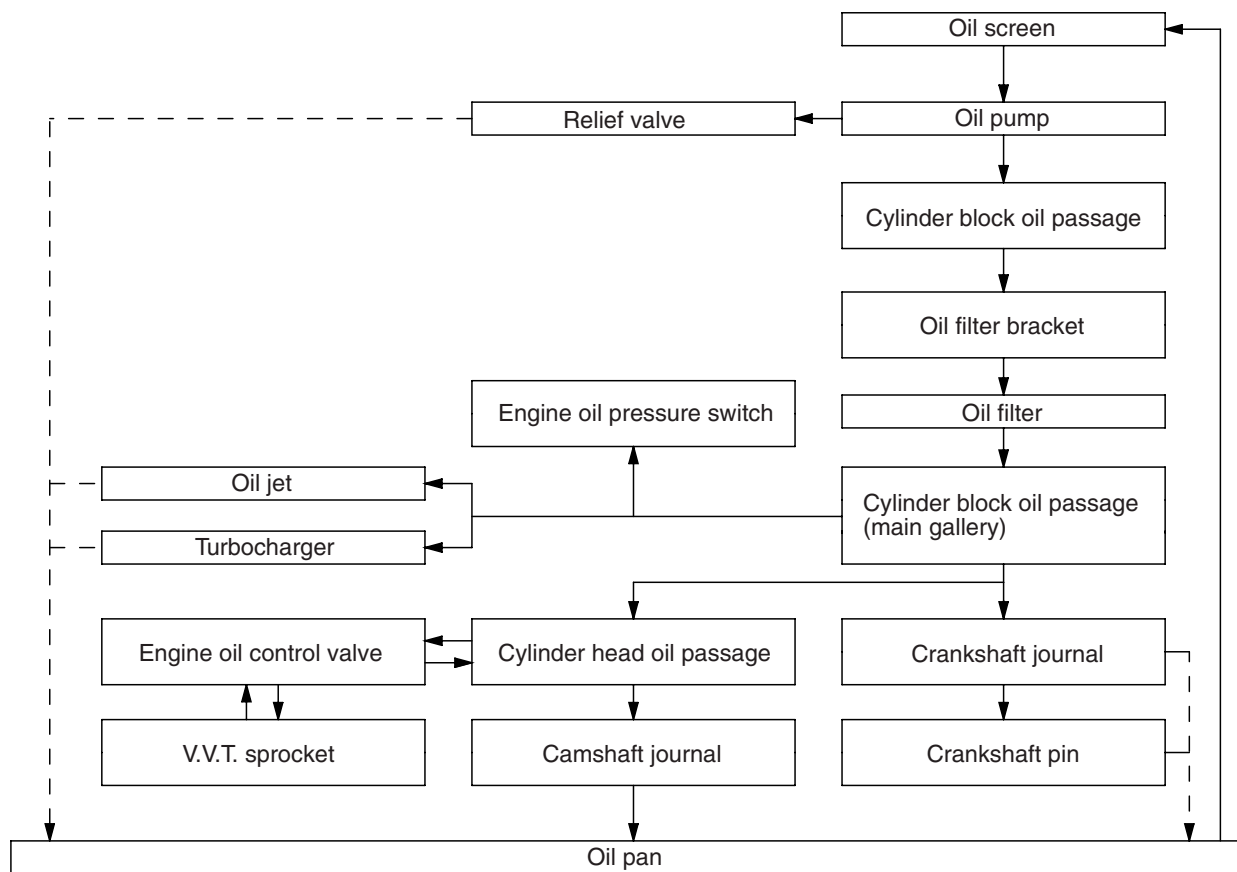
The lubrication system is a full-flow, filter pumping system.

The engine oil that accumulates in the oil pan is drawn and discharged by the oil pump. After its pressure is regulated by the relief valve, the oil passes through the oil filter. Then, it flows from the oil passage in the cylinder block to the individual crankshaft journals and the cylinder head.

After the oil is pumped to the individual crankshaft journals, it passes through a passage in the crankshaft and is fed to the pins. After the oil is pumped to the cylinder head, it flows to the camshaft journals and the engine oil control valves.

OIL PASSAGE

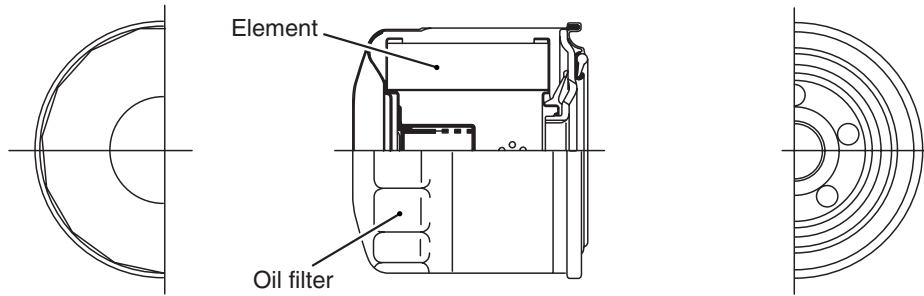
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AK703250AC

OIL FILTER

M2120005000311



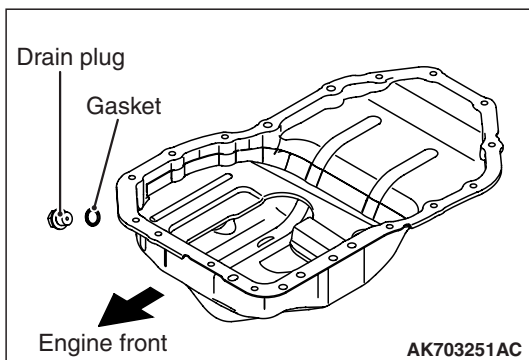
AK601225AC

The oil filter is installed to the bracket placed at the left side of ladder frame.

Item	Specifications
Filtering system	Full-flow filtering, filter paper type
Filtering area cm ² (in ²)	870 (134.8)
Rated flow volume L/min dm ³ (qt)	30 (32)

OIL PAN

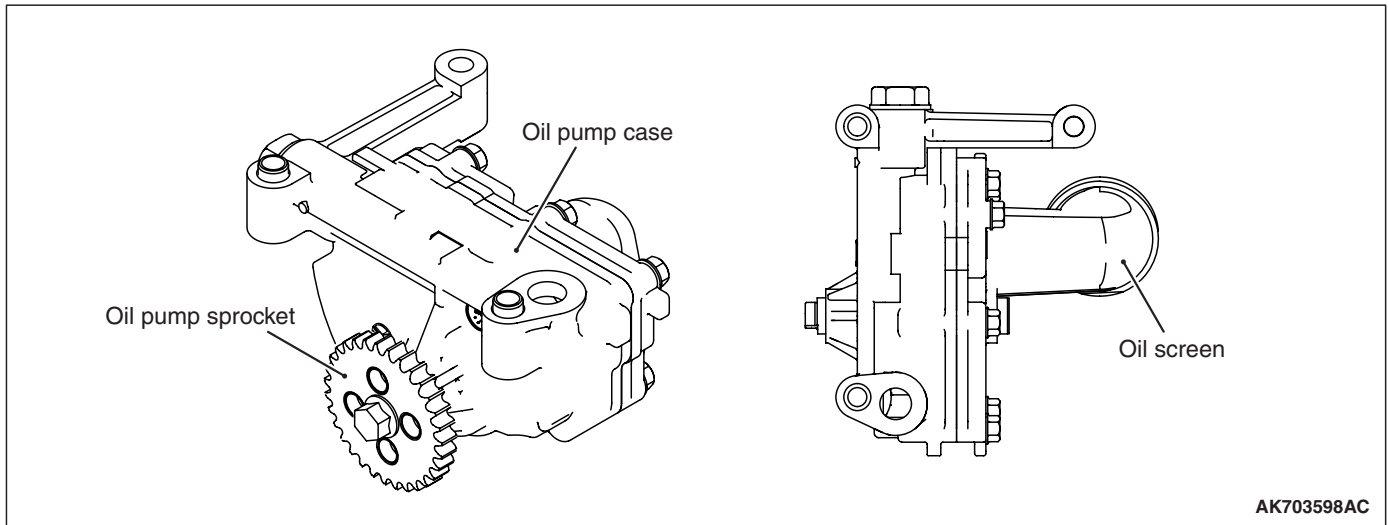
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The oil pan is made of high damping sheet metal and contains an oil sump in the forward area of the engine. FIG (Formed-In-Place Gasket) is used to seal between the oil pan and the ladder frame.

OIL PUMP

M2120002000141



The oil screen is integrated into the oil pump case to be compact and lightweight.

The oil pump case, which is installed to the bottom of the ladder frame, is driven by the oil pump chain through the oil pump sprocket installed to the front of the oil pump case.

ENGINE OIL COOLER

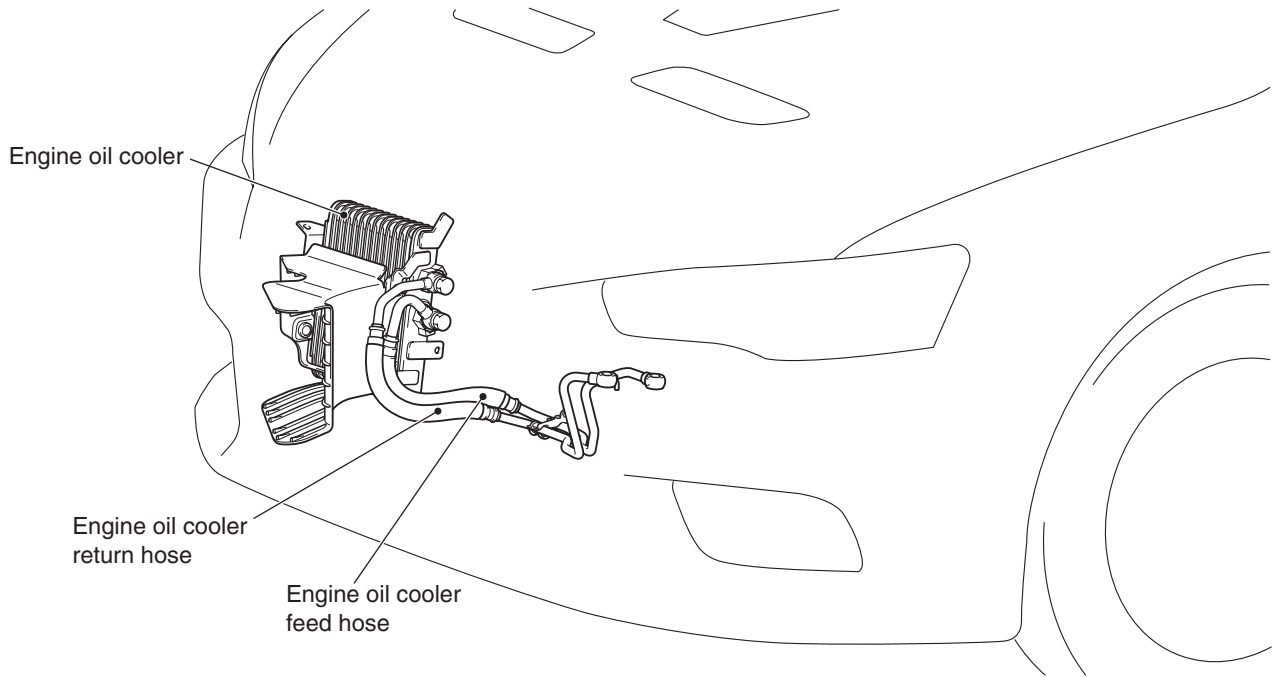
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The air-cooled type engine oil cooler is installed to the front right bottom of the radiator.

SPECIFICATIONS

Item		Specification
Type		Drawn cup type
Core size mm (in)	Width × Height × Thickness	200 × 190 × 49 (7.9 × 7.5 × 1.93)
Engine oil cooler oil amount dm ³ (qt)		0.52 (0.54)
Performance kJ/h (kcal/h)		33,100 (7,900)

CONSTRUCTION DIAGRAM



AC710568 AD

NOTES