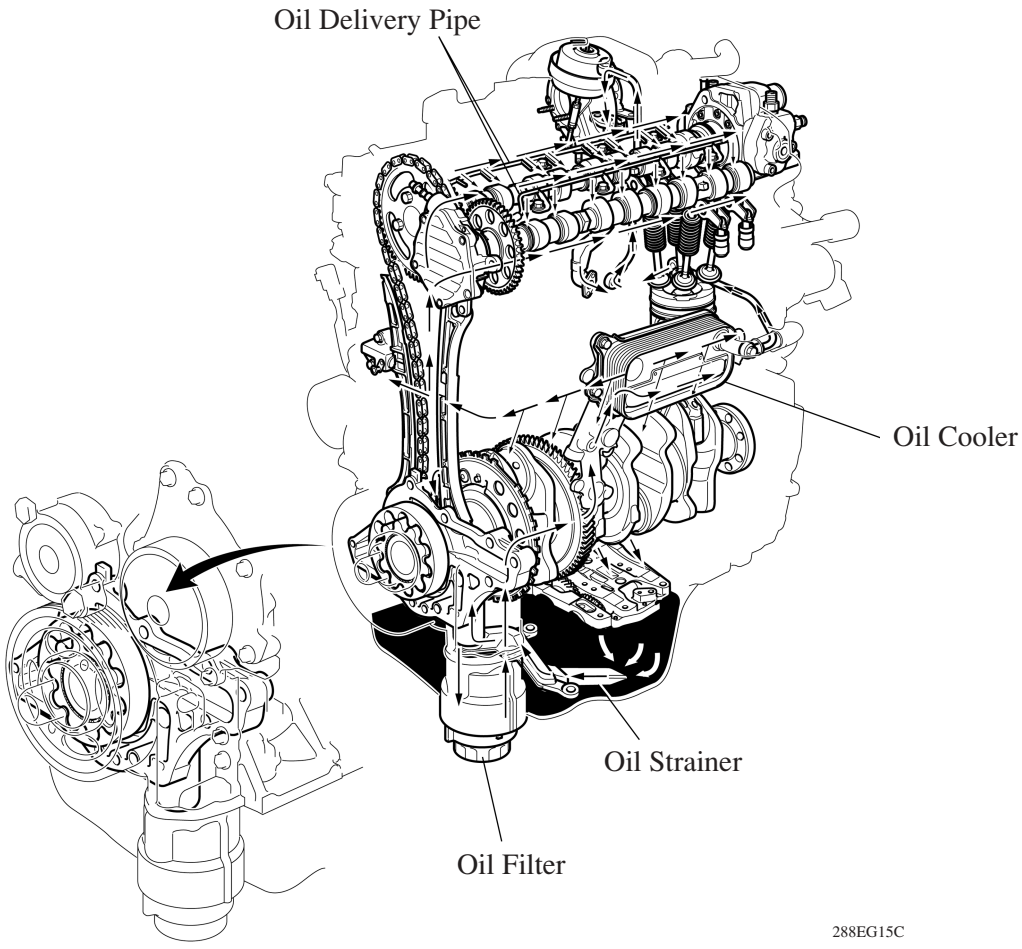
■LUBRICATION SYSTEM

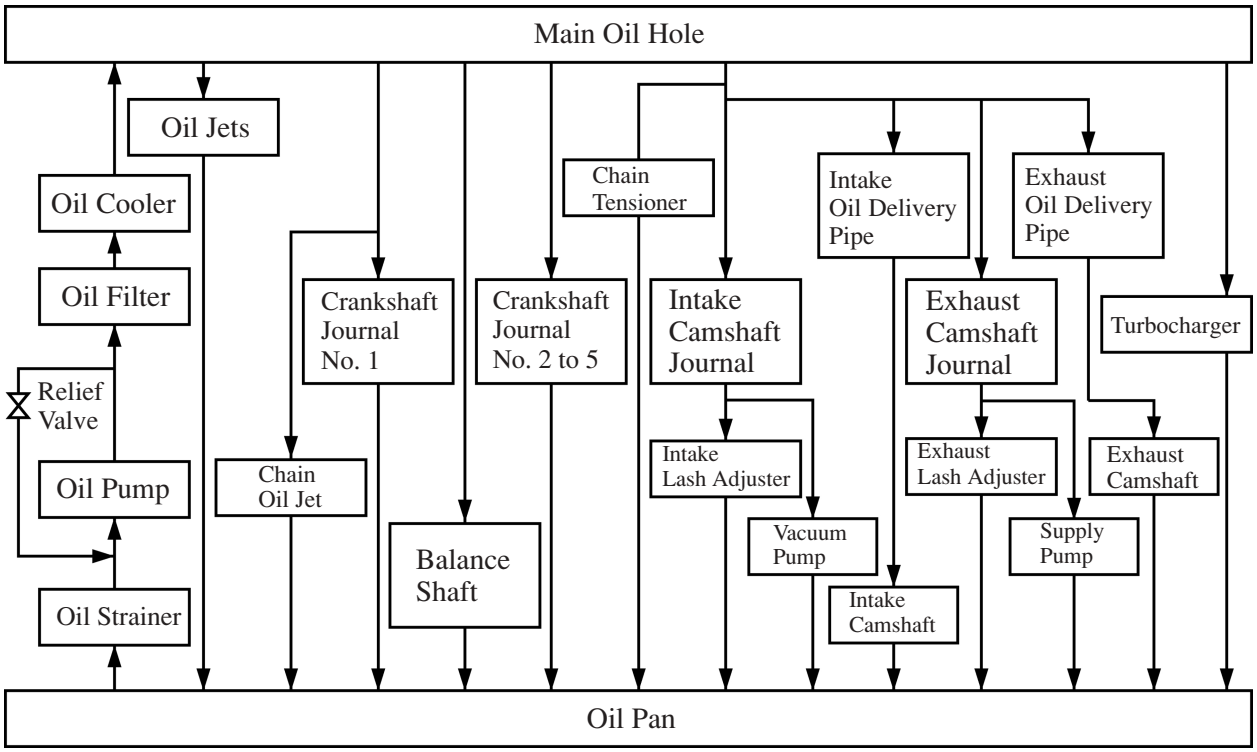
1. General

- The lubrication circuit is fully pressurized and oil passes through an oil filter.
- The trochoid gear type oil pump is driven directly by the crankshaft.
- The chamber for the oil pump rotor is placed in the timing chain cover to achieve a simple construction and a compact engine.
- The water-cooled type oil cooler is used to lower the oil temperature.
- The resin oil strainer is used to reduce weight.
- Oil jets are provided for cooling the pistons.
- An oil level sensor is provided in the oil pan for efficient servicing.
- An oil filter with a replaceable element is used. For details of this filter, see page EG-75.



Oil Pump

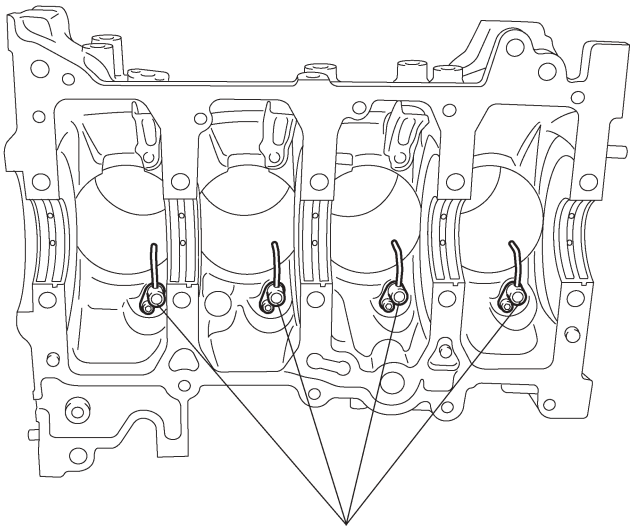
▶ Oil Circuit ◀

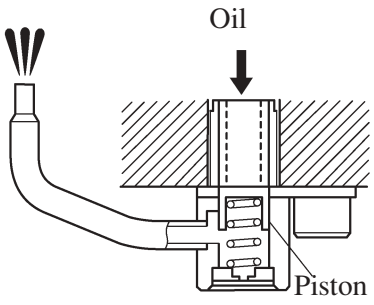


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2. Oil Jet

Oil jets for cooling and lubricating the pistons are provided in the cylinder block.



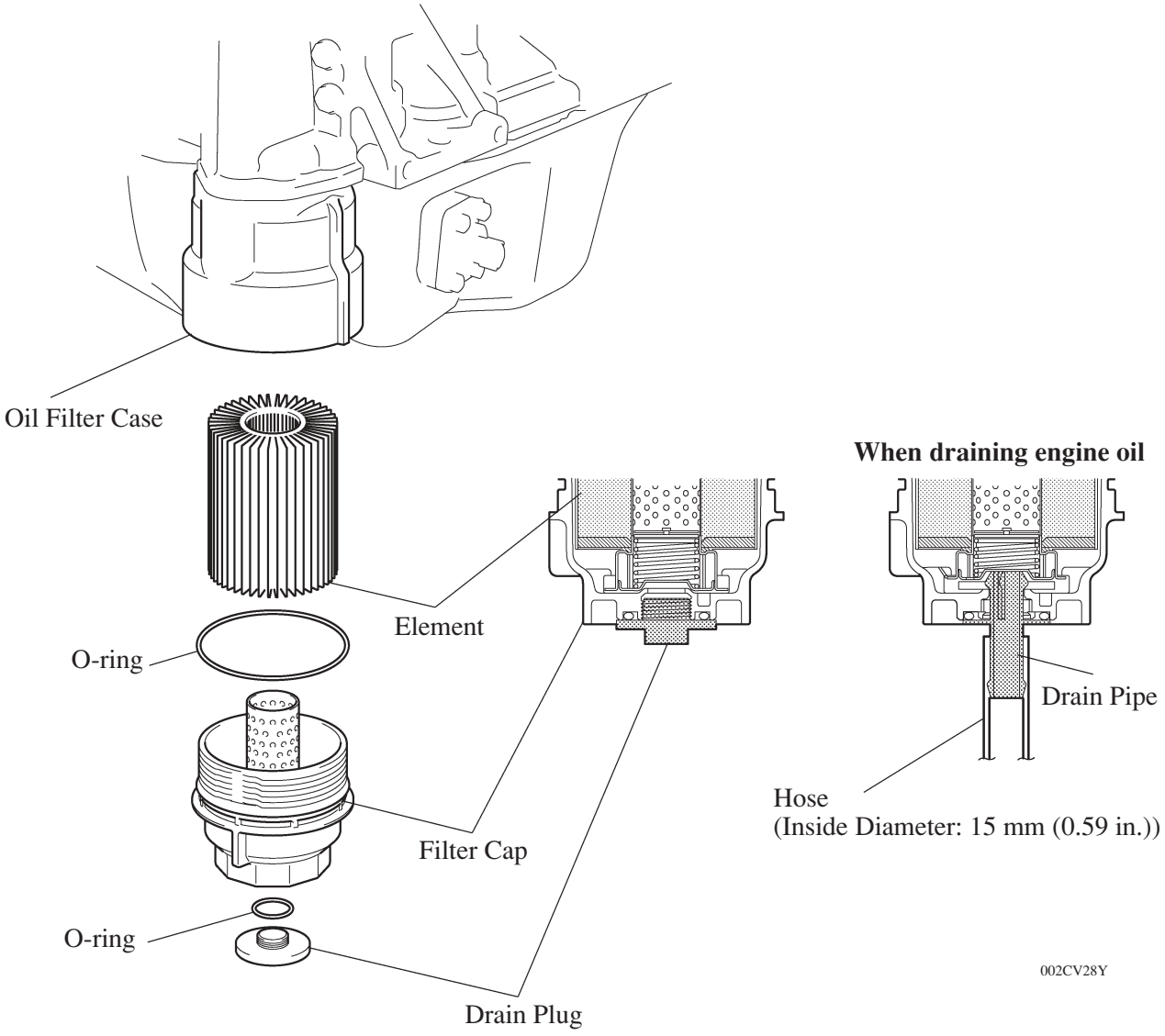


Oil Jet Cross Section

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3. Oil Filter

- An oil filter with a replaceable element is used. The element uses a high-performance filter paper to improve filtration performance. It is also combustible for environmental protection.
- An aluminum alloy filter cap is used to extend its life.
- This oil filter has a structure which can drain the engine oil remaining in the oil filter. This prevents engine oil from spattering when replacing the element and allows the technician to work without touching hot engine oil.



Service Tip

- The engine oil in the oil filter can be drained by removing the drain plug and inserting the drain pipe supplied with the element into the oil filter. For details, refer to the RAV4 Repair Manual (Pub. No. RM01N0E).
- The engine oil maintenance interval for a model that has an oil filter with a replaceable element is the same as that for the conventional model.