

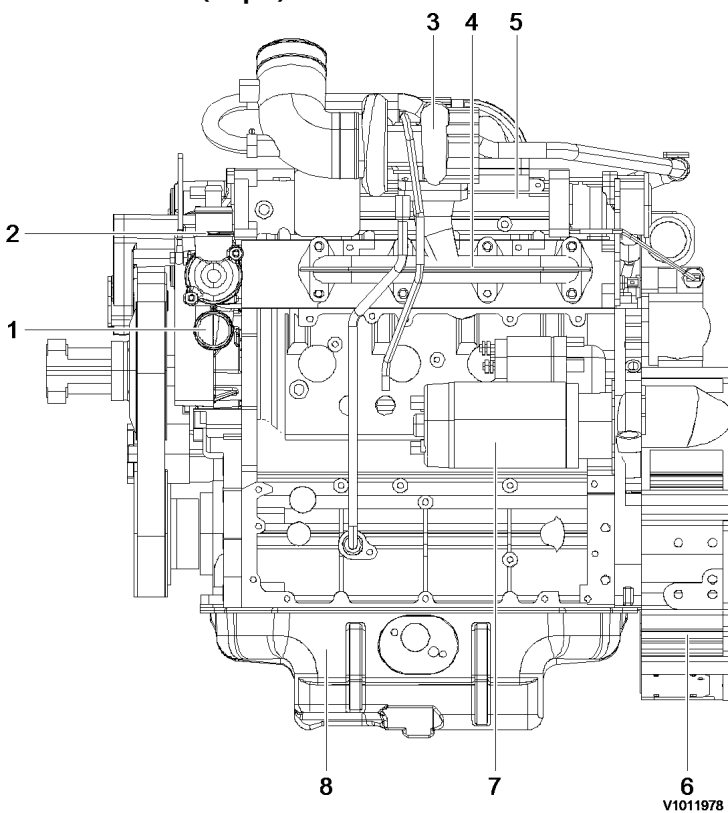
Document Title: <b>Engine, description</b>	Function Group: <b>200</b>	Information Type: <b>Service Information</b>	Date: <b>2015/3/3 0</b>
Profile: <b>EXC, EC140B LC [GB]</b>			

## Engine, description

The engine is a 4-cylinder, 4-stroke, direct injected, turbocharged, aftercooled with a cast iron block and cylinder head. Gears in the engine gear case are hardened helical type for strength and reduced noise, arranged to provide quiet, smooth transmission of power.

The cylinder block and head are designed with internal passages forming galleries for both lubricating oil and coolant. The fan belt is a poly type V-belt for improved performance and an auto tension adjuster maintains belt tension.

### Starter side view (step 1)

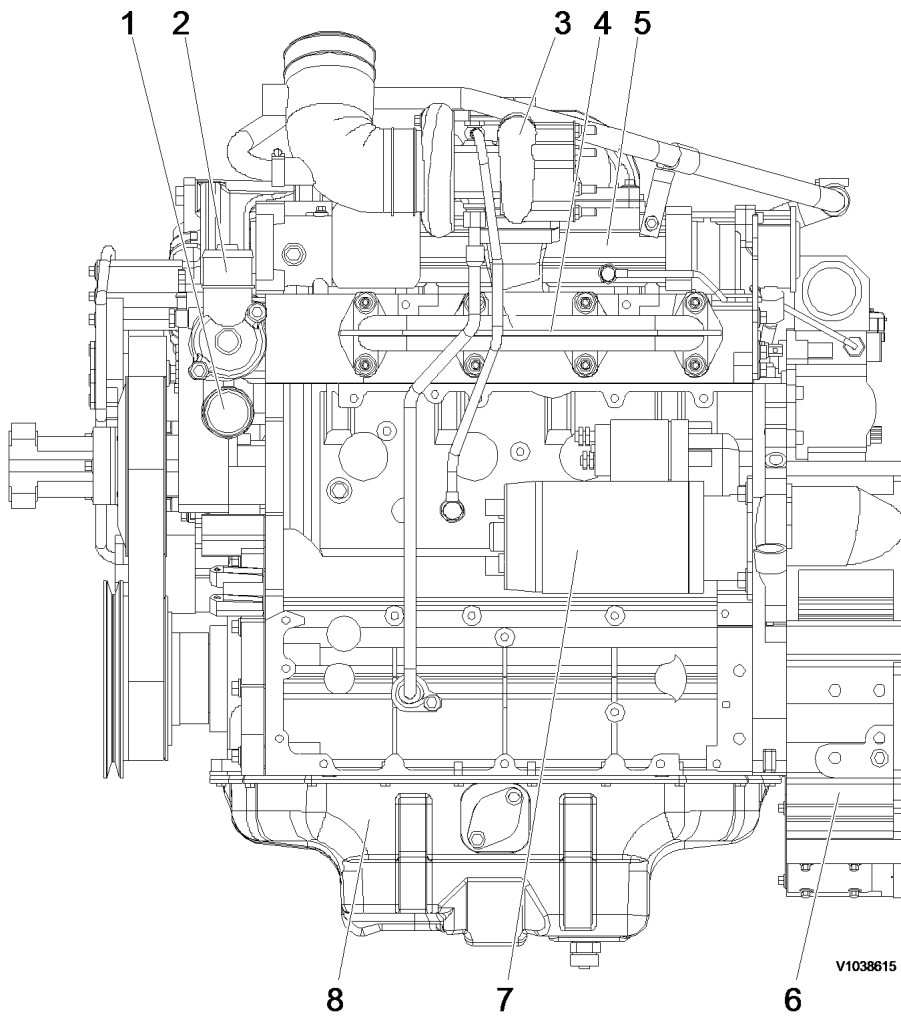


**Figure 1**

### Engine, starter side view (step 1)

1. Coolant inlet
2. Coolant outlet
3. Exhaust turbocharger
4. Exhaust manifold
5. Air intake manifold
6. Flywheel housing
7. Starter
8. Oil pan

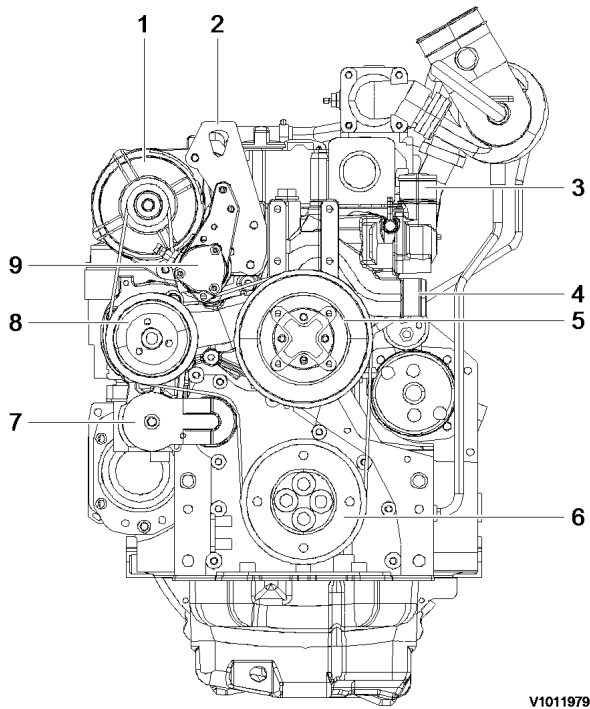
### Starter side view (step 2)



**Figure 2**  
**Engine, starter side view (step 2)**

1. Coolant inlet
2. Coolant outlet
3. Exhaust turbocharger
4. Exhaust manifold
5. Air intake manifold
6. Flywheel housing
7. Starter
8. Oil pan

**Alternator side view (step 1)**

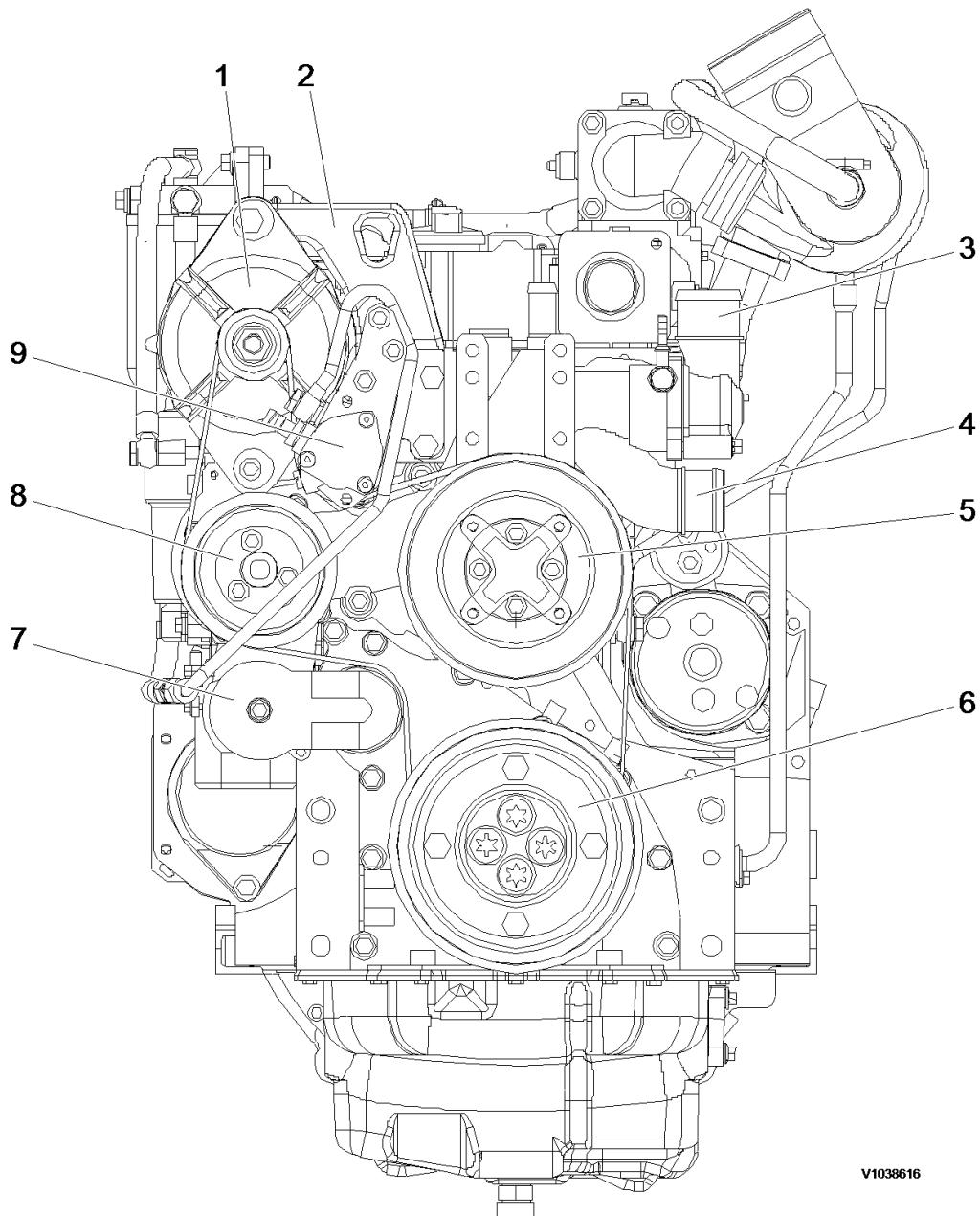


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**Figure 3**  
**Engine, Alternator side view (step 1)**

1. Alternator
2. Engine lifting bracket
3. Coolant outlet
4. Coolant inlet
5. Fan pulley
6. Poly - V-pulley with vibration damper
7. Poly - V-belt tension pulley
8. Coolant pump
9. Fuel pump

**Alternator side view (step 2)**

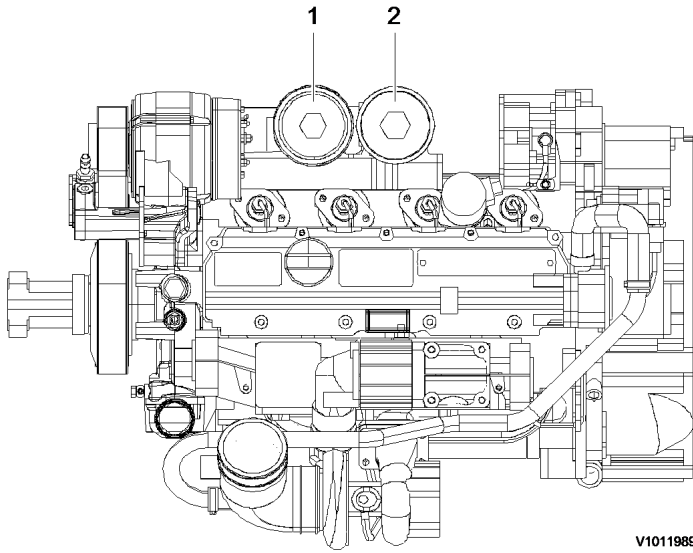


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**Figure 4**  
**Engine, Alternator side view (step 2)**

1. Alternator
2. Engine lifting bracket
3. Coolant outlet
4. Coolant inlet
5. Fan pulley
6. Poly - V-pulley with vibration damper
7. Poly - V-belt tension pulley
8. Coolant pump
9. Fuel pump

**Top view (step 1)**

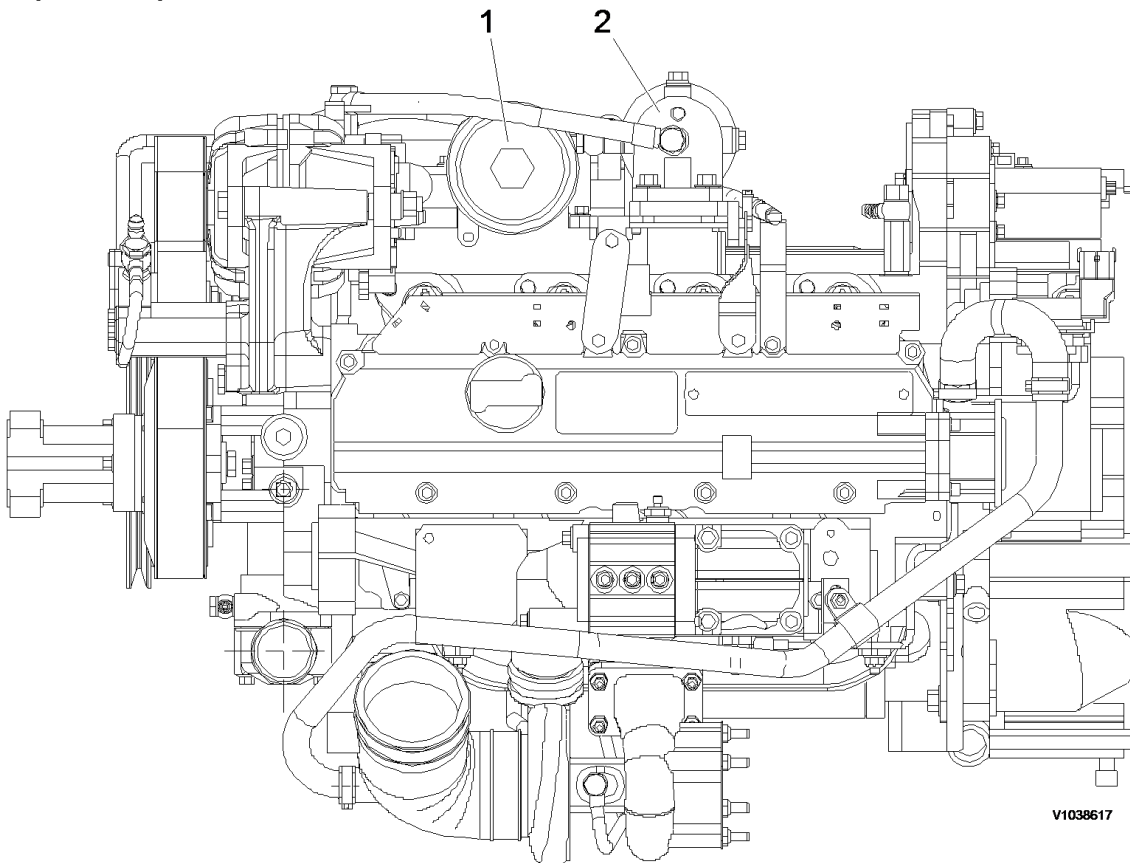


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**Figure 5**  
**Engine, top view (step 1)**

1. Engine oil filter
2. Fuel filter

**Top view (step 2)**

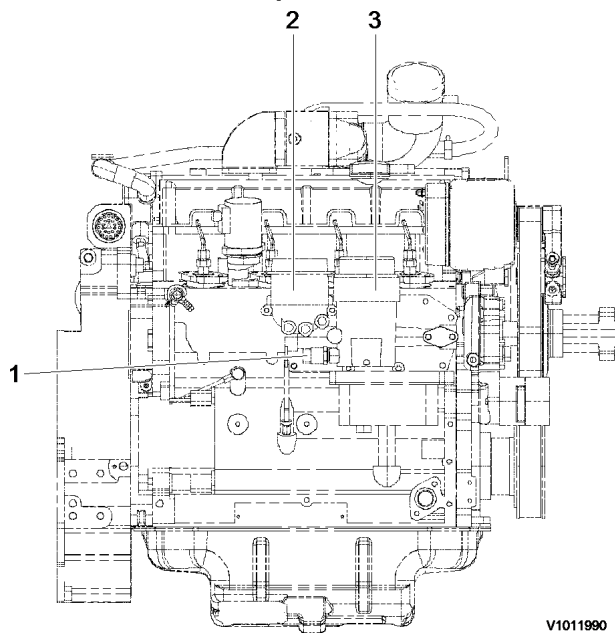


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**Figure 6**  
**Engine, top view (step 2)**

1. Engine oil filter
2. Fuel filter

### Fuel filter side view (step 1)

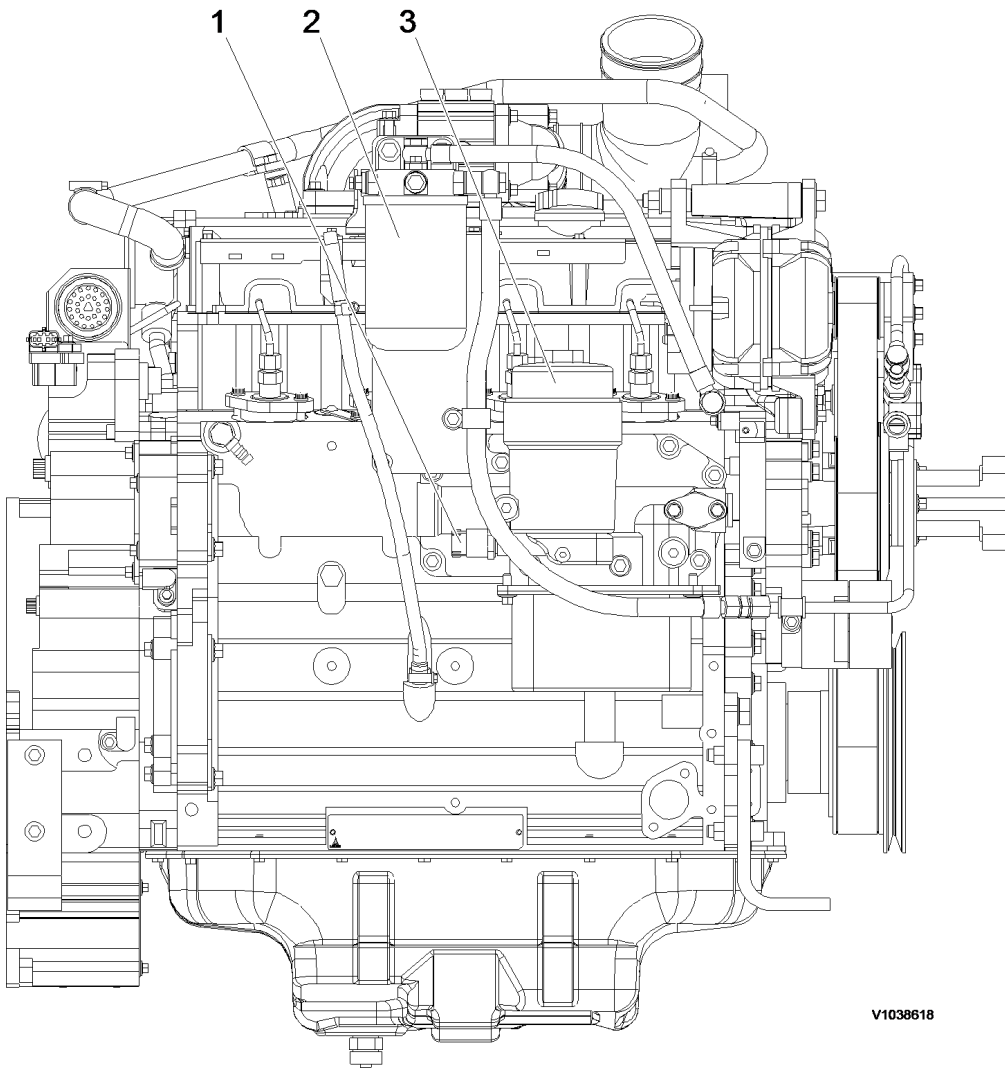


### Figure 7

#### Engine, fuel filter side view (step 1)

1. Lube oil pressure port (M14 × 1.5)
2. Fuel filter
3. Engine oil filter

### Fuel filter side view (step 2)

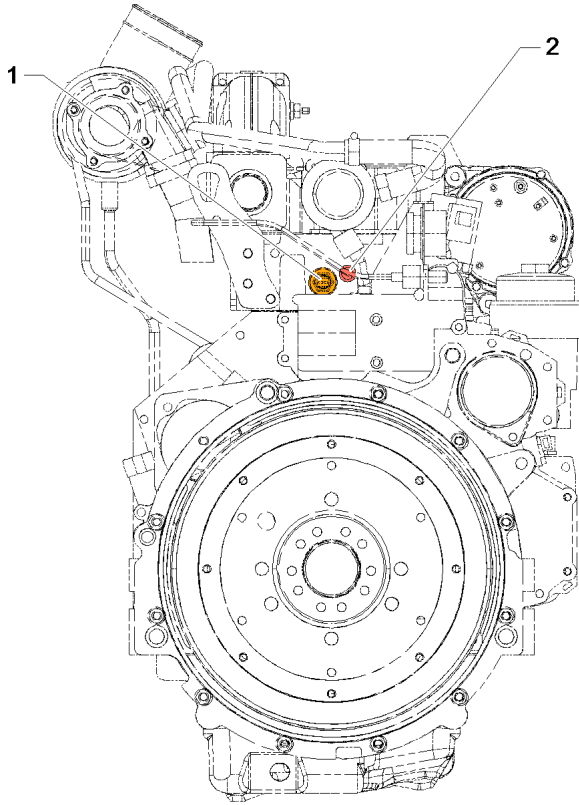


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**Figure 8**  
**Engine, fuel filter side view (step 2)**

1. Lube oil pressure port (M14 × 1.5)
2. Fuel filter
3. Engine oil filter

**Flywheel end view (step 1)**



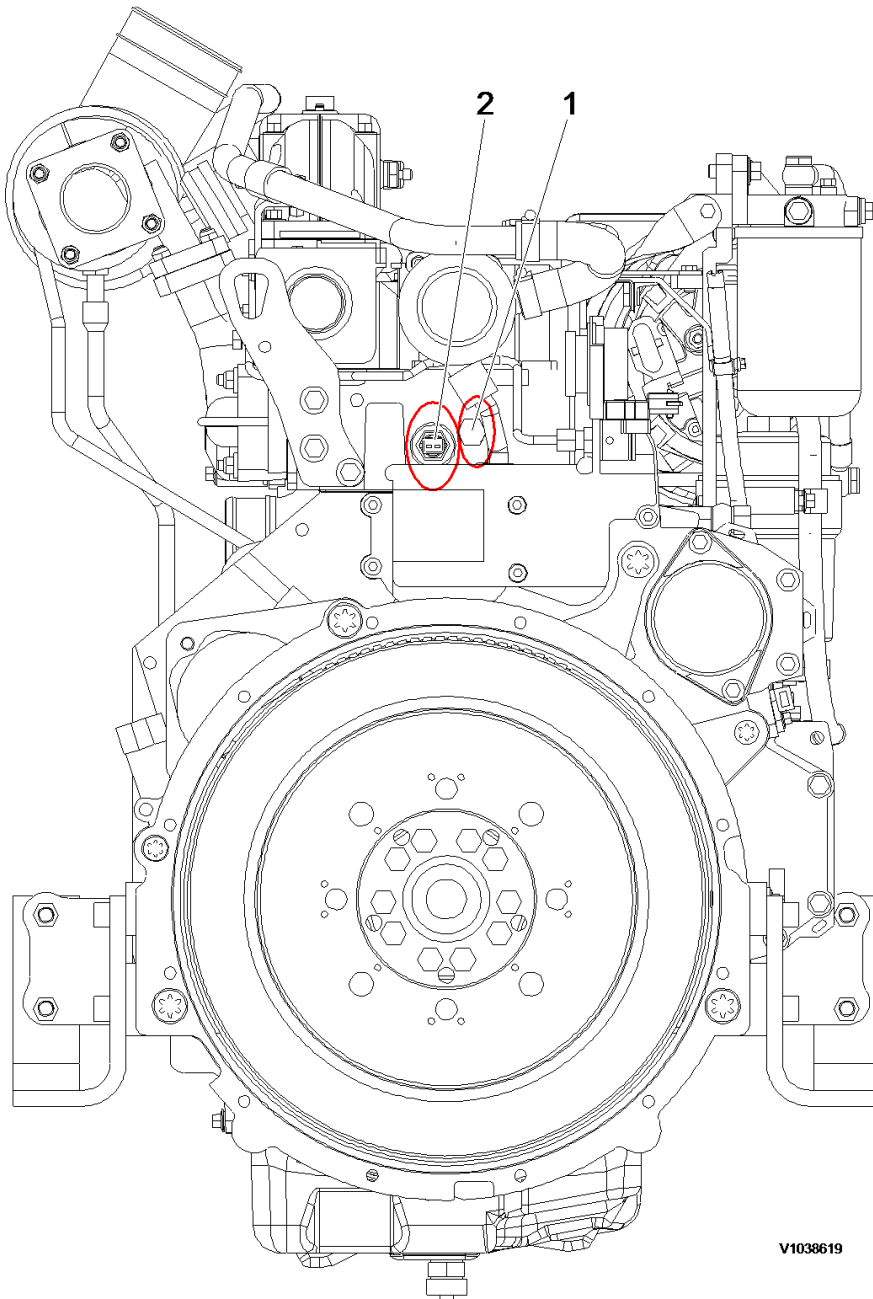
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**Figure 9**  
**Engine, flywheel end view (step 1)**

1. Coolant temperature check port
2. Coolant temperature sensor port

**Flywheel end view (step 2)**





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**Figure 10**  
**Engine, flywheel end view (step 2)**

1. Coolant temperature check port
2. Coolant temperature sensor port

**Thank you very much for reading.**

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