

# Engine oil change (T3)

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## Capsule cover open

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1. turn the Swivel fastener
2. turn the Swivel fastener
3. Open the Capsule cover
4. Hang the Clip

## Oil filler cap removal

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1. Remove the Oil filler cap

## Service hole cover removal

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1. Remove the Screw
2. Remove the Screw
3. Remove the Fastener
4. Remove the Fastener
5. Remove the Fastener
6. Remove the Fastener
7. Remove the Service hole cover


## Oil pan drain plug removal

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1. Remove the Oil pan drain plug
2. Remove the Gasket

## Engine oil drain

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 **Warning:** Be careful when working on an engine that has just been stopped as it is very hot and there is a risk of burns.

If engine oil is poured in when engine oil has not been sufficiently drained, the engine oil level will exceed the specified value and the oil level will

 **CAUTION:** exceed the "F" position on the oil level gauge. When draining the engine oil, warm up the engine (engine oil temperature: approx. 80 °C {176 °F} or higher) and leave it for 10 minutes or more before draining it.

**i Note:** The viscosity of engine oil varies depending on the engine oil temperature.

When the engine is cold, the viscosity of the engine oil is high, and it takes time

**i Note:** for the engine oil to return to the oil pan from each part of the engine, so the engine oil cannot be drained sufficiently.

By raising the engine oil temperature to approximately 80 °C {176 °F} or higher

**i Note:** and leaving it for 10 minutes or more, the engine oil will return to the oil pan and it will be possible to drain it sufficiently.

**i Note:** To address oil dilution (reduced viscosity) and engine oil consumption (reduced oil volume), add engine oil up to the "F" position on the oil level gauge.

- When the engine oil is drained according to the procedure and the specified amount of engine oil (reference value) is poured in, the engine oil will reach the "F" position on the oil level gauge.**

1. Extract the Engine oil

## Oil pan drain plug installation

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1. Install the Gasket
2. Install the Oil pan drain plug

## Engine oil injection

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- Note:** Using engine oil that is not listed in the table will cause the diesel particulate filter (DPF) to deteriorate faster.

1. Inject the Engine oil

## Oil filler cap installation

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1. Install the Oil filler cap
2. Inspect the Engine oil leak

## Engine oil inspection preparation

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1. Warm up the Engine
2. Stop the Engine
3. Leave it the Vehicle
4. Remove the Oil level gauge
5. Wipe off the Oil level gauge
6. Install the Oil level gauge

## Engine oil inspection

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- Warning:** Be careful when working on an engine that has just been stopped as it is very hot and there is a risk of burns.

- CAUTION:** Because there is a risk that the engine oil level will not be measured accurately, when measuring the engine oil level, warm up the engine (engine oil temperature: approximately 80 °C {176 °F} or higher) and leave it for at least 10 minutes before checking.

- Note:** When removing PM accumulated in the DPF, fuel may mix with the engine oil, causing the oil volume to increase, but this is not abnormal.

- Note:** The viscosity of engine oil varies depending on the engine oil temperature.

- Note:** When the engine is cold, the viscosity of the engine oil is high and it takes time for the engine oil to return to the oil pan from each part of the engine, so the engine oil level cannot be measured accurately.

- Note:** By keeping the engine oil temperature at approximately 80 °C {176 °F} or higher for at least 10 minutes, the engine oil will return to the oil pan and the engine oil level can be measured accurately.

**i Note: Place the vehicle on a level surface and perform the work.**

1. Remove the Oil level gauge
2. Inspect the Engine oil amount
3. Inspect the Engine oil amount

**If the oil level is below the lower limit, check for engine oil leaks, and if there are**

**i Note: no leaks, add engine oil. If the oil level is below the lower limit, add engine oil while checking the engine oil level with the oil level gauge.**

1. Inspect the Engine oil amount

**If the oil level is at the lowest limit, add 1L {1 US qt, 0.9 Imp qt} of engine oil. The**

**i Note: amount of engine oil between the lowest and highest limits on the oil level gauge is 1L.**

1. Inspect the Engine oil amount

**i Note: If the oil level is above the X position, change the engine oil. Fuel may have gotten into the engine oil.**

1. Install the Oil level gauge

## Service hole cover installation

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1. Install the Service hole cover
2. Install the Fastener
3. Install the Fastener
4. Install the Fastener
5. Install the Fastener
6. Install the Screw
7. Install the Screw

## Capsule cover closed

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1. remove the Clip
2. Close the Capsule cover
3. turn the Swivel fastener
4. turn the Swivel fastener

## Engine oil data reset

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**The accumulated data for engine oil change timing stored in the ECM (vehicles**

**i Note: with e-SKYACTIV PHEV) or PCM (vehicles without e-SKYACTIV PHEV) must be reset, so if you change the engine oil, perform an engine oil data reset.**

1. Reset the Engine oil data