

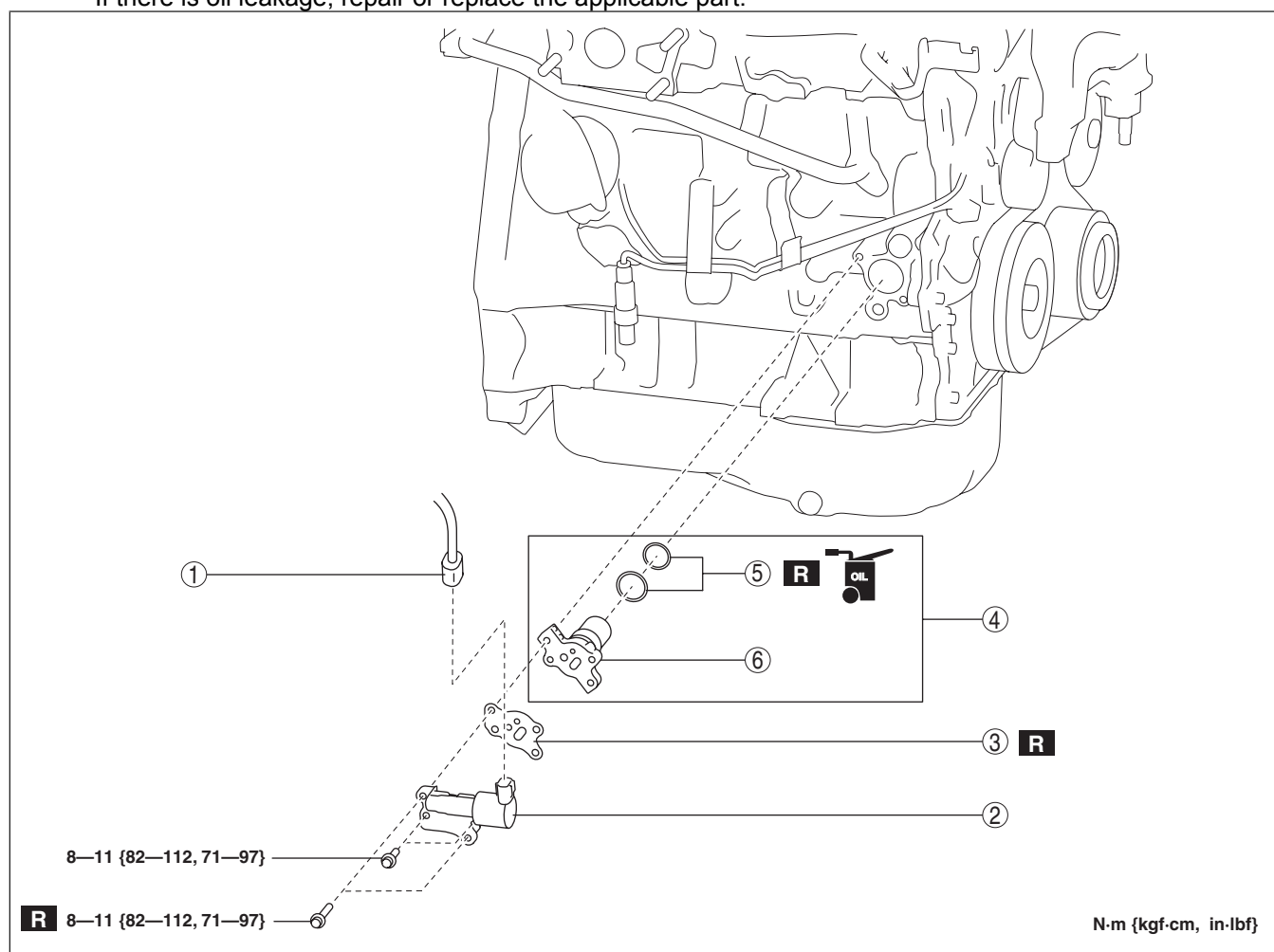
## ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

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### Warning

- Hot engines and engine oil can cause severe burns. Turn off the engine and wait until it and the engine oil have cooled.
- A vehicle that is lifted but not securely supported on safety stands is dangerous. It can slip or fall, causing death or serious injury. Never work around or under a lifted vehicle if it is not securely supported on safety stands.
- Continuous exposure to USED engine oil has caused skin cancer in laboratory mice. Protect your skin by washing with soap and water immediately after working with engine oil.

1. Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
2. Remove the front under cover No.2. (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
3. Remove the splash shield (RH). (See SPLASH SHIELD REMOVAL/INSTALLATION.)
4. Remove the catalytic converter lower bracket. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.
7. Start the engine and confirm that there is no oil leakage.
  - If there is oil leakage, repair or replace the applicable part.



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1	Engine oil solenoid valve connector
2	Engine oil solenoid valve (See Engine Oil Solenoid Valve Removal Note.)
3	Gasket
4	Spacer connector (See Spacer Component Removal Note.)

5	O-ring
6	Spacer

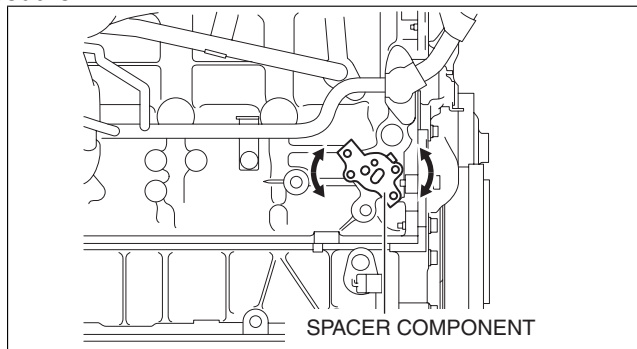
### Engine Oil Solenoid Valve Removal Note

1. Cover the area around the engine oil solenoid valve with a rag because a small amount of engine oil will leak from the engine oil solenoid valve installation area.

### Spacer Component Removal Note

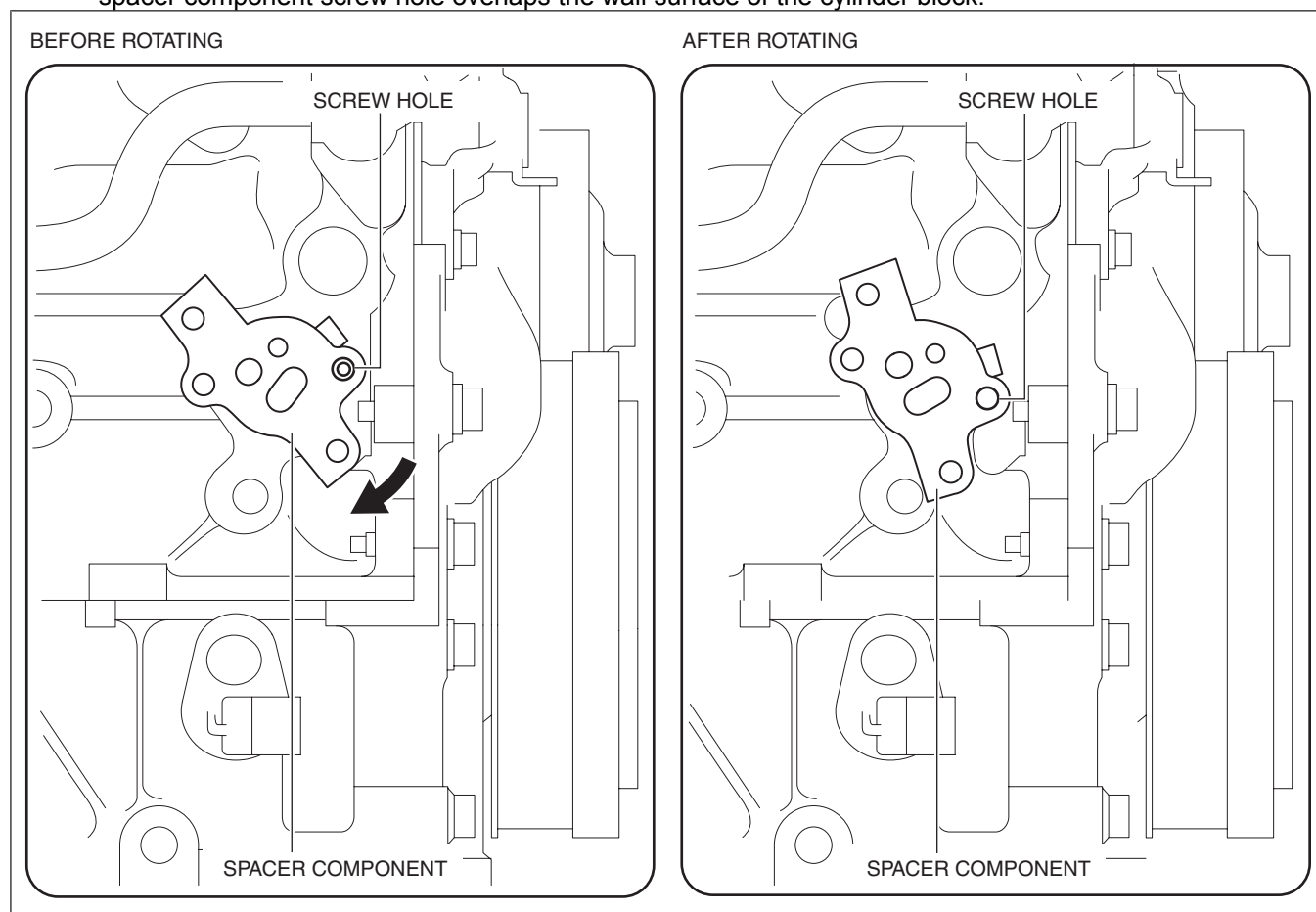
1. Remove the spacer component using the following procedure.

- (1) Rotate the spacer component in the direction shown in the figure.



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- (2) Rotate the spacer component in the direction of the arrow shown in the figure and position it so that the spacer component screw hole overlaps the wall surface of the cylinder block.

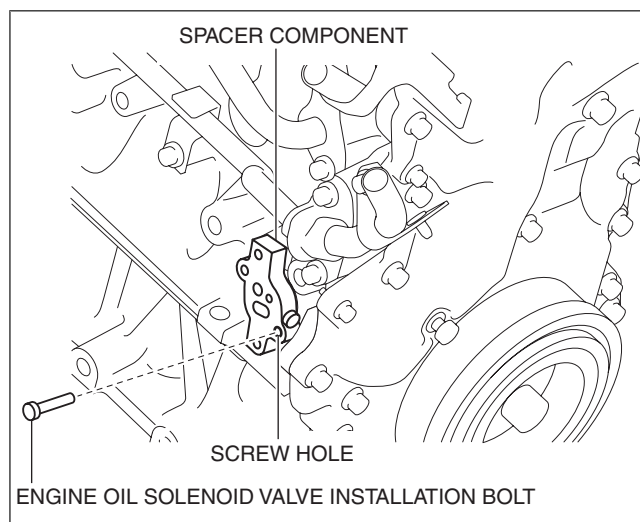


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- (3) Install the removed engine oil solenoid valve installation bolt into the screw hole of the spacer component shown in the figure.

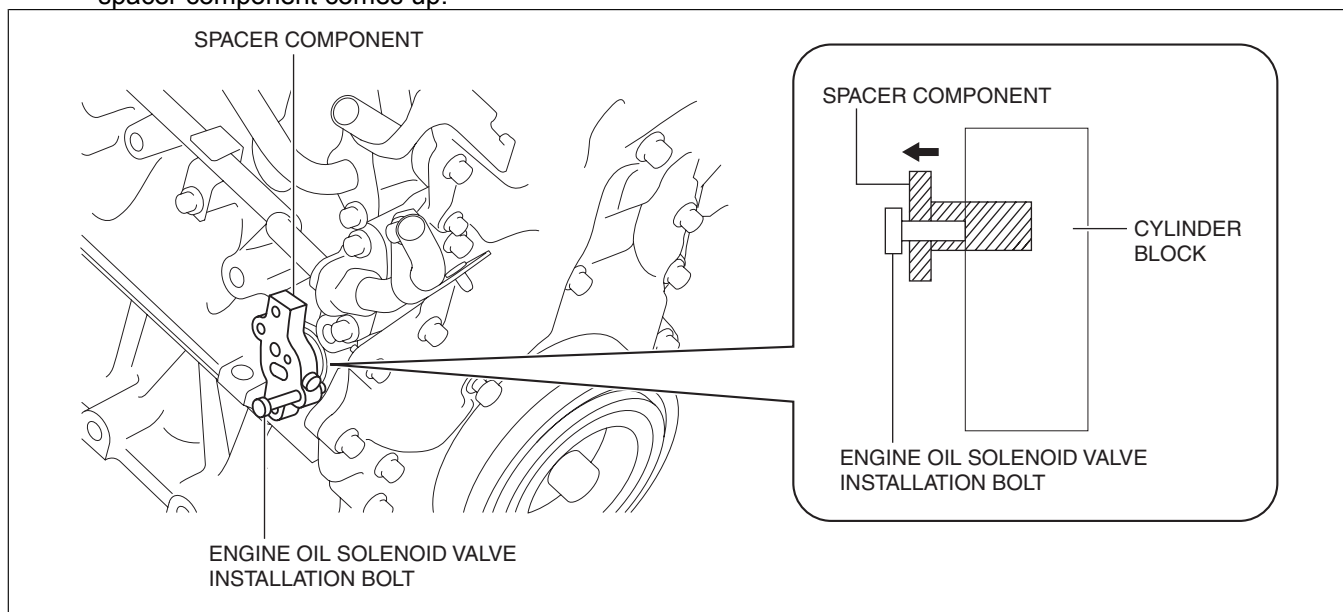
**Caution**

- Do not use the new bolts which are used during assembly.



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- (4) Tighten to the point that the engine oil solenoid valve installation bolt contacts the cylinder block and the spacer component comes up.



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- (5) When the spacer component comes up, pull it out by hand.