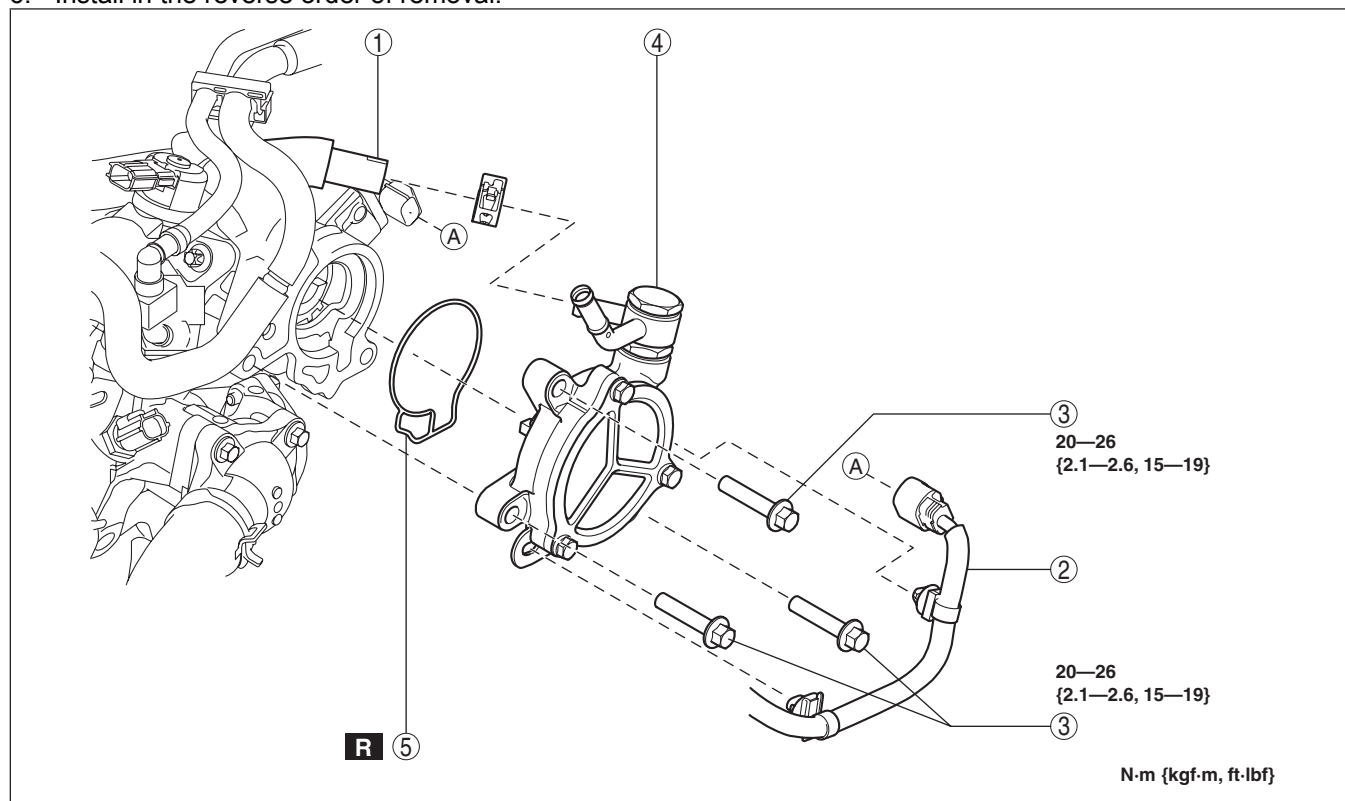


VACUUM PUMP REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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1. Remove the plug hole plate. (See PLUG HOLE PLATE REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
2. Remove the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
3. Set the PCM wiring harness out of the way.
4. Pinch open the clamp using pliers and disconnect the vacuum hose from the vacuum pump. (See VACUUM HOSE REMOVAL/INSTALLATION.)
5. Remove in the order shown in the table.
6. Install in the reverse order of removal.



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1	Vacuum hose
2	Exhaust CMP sensor connector and wiring harness
3	Bolt
4	Vacuum pump (See Vacuum Pump Removal Note.) (See Vacuum Pump and O-ring Installation Note.)

5	O-ring (See Vacuum Pump and O-ring Installation Note.)
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Vacuum Pump Removal Note

1. When removing the vacuum pump, place a rag under the installation surface of the vacuum pump so that engine oil does not get on other parts.
2. Remove the vacuum pump.

Vacuum Pump and O-ring Installation Note

1. Rotate the vacuum pump by hand to drain the remainder of the engine oil in the vacuum pump.
2. Degrease the O-ring installation groove and installation surface.
3. Install the new O-ring to the vacuum pump.
4. Install the vacuum pump.