

INTAKE SHUTTER VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2]

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Note

- If the intake shutter valve is replaced, perform the intake shutter valve initialization procedure.

Operation After Replacing Intake Shutter Valve

- If the intake shutter valve is replaced, perform the following procedure.

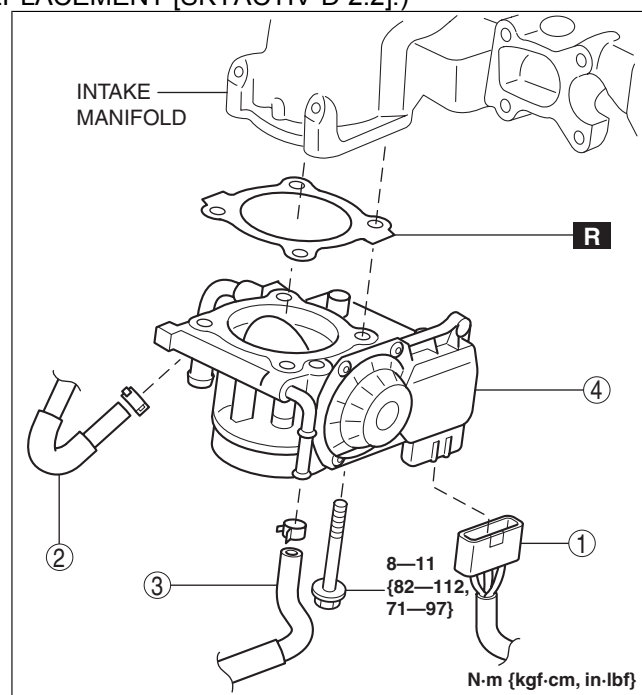
STEP	ACTION	PAGE/CONDITION
1	Perform intake shutter valve initialization procedure.	(See INTAKE SHUTTER VALVE INITIALIZATION [SKYACTIV-D 2.2].)
2	Switch the ignition off.	—
3	Wait for 20 s.	—
4	Switch the ignition ON (engine off).	—
5	Perform KOEO self-test procedure.	(See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)
6	Start the engine.	—
7	Verify that the check engine light does not illuminate.	—
8	Perform KOER self-test procedure.	(See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)
9	Switch the ignition off.	—

Intake Shutter Valve Removal/Installation

- Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
- Remove front under cover No.1 and front under cover No.2. (See FRONT UNDER COVER No.1 REMOVAL/INSTALLATION.) (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
- Remove the charge air cooler outlet hose. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
- Drain the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-D 2.2].)
- Remove in the order shown in the figure.

1	Intake shutter valve connector
2	Water hose No.1 (See Water hose No.1 removal note.) (See Water hose No.1 installation note.)
3	Water hose No.2 (See Water hose No.2 installation note.)
4	Intake shutter valve (See Operation After Replacing Intake Shutter Valve.)

- Install in the reverse order of removal.

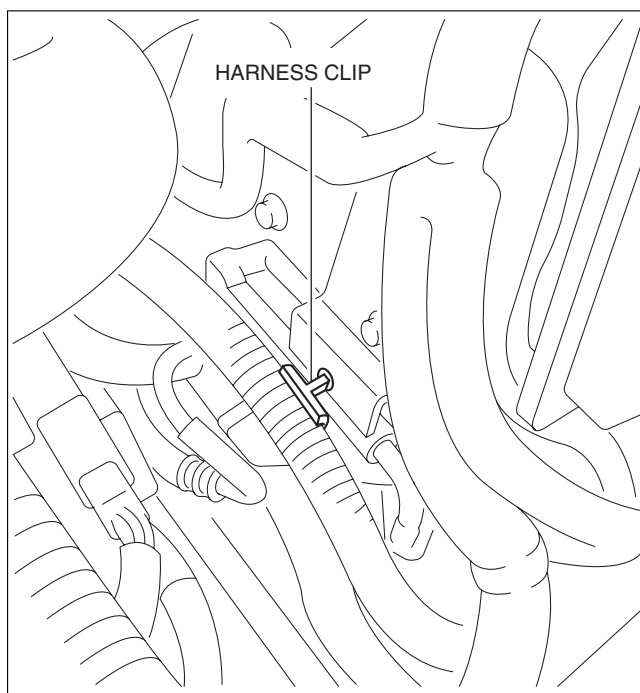


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Water hose No.1 removal note

- Remove the coolant reserve tank. (See COOLANT RESERVE TANK REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
- Remove the starter terminal B cable installation nut.

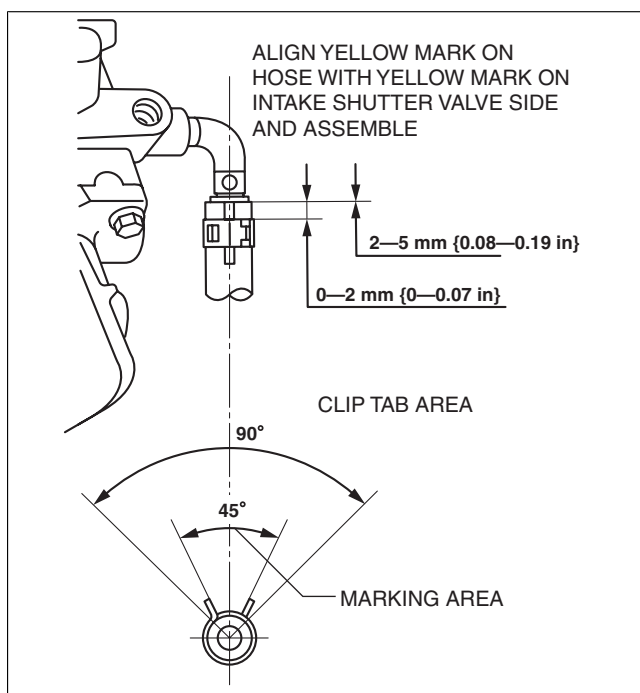
3. Detach the wiring harness clips shown in the figure.
4. Remove the water hose No.1



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Water hose No.2 installation note

1. Install water hose No.2 as shown in the figure.

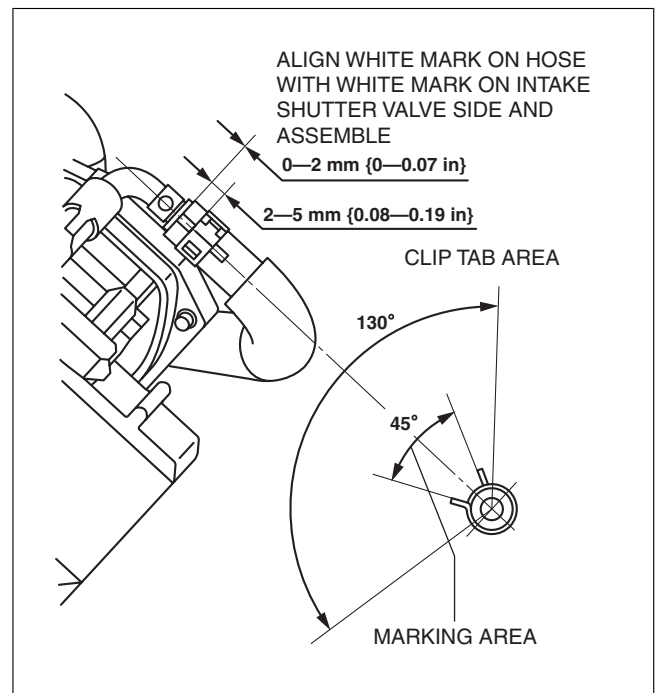


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Water hose No.1 installation note

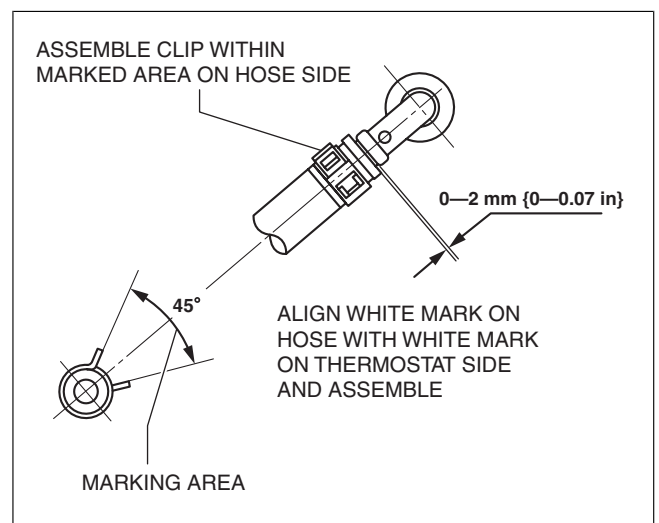
1. Install water hose No.1 as shown in the figure.

Intake shutter valve side



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Thermostat side



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