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1984 MAZDA RX-7 (SA/FB) OEM Service and Repair Workshop Manual

Go to manual page

STEP	INSPECTION		ACTION
1	RECORD VEHICLE STATUS AT TIME OF DTC DETECTION TO UTILIZE WITH REPEATABILITY VERIFICATION  Note  • Recording can be facilitated using the screen capture function of the PC. • Record the FREEZE FRAME DATA/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (fuel system related) on the repair order.	_	Go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information.  • If the vehicle is not repaired, go to the next step.
	• Is any related repair information available?	No	Go to the next step.
3	<ul> <li>VERIFY RELATED PENDING CODE AND/OR DTC</li> <li>Switch the ignition off, then ON (engine off).</li> <li>Perform the Pending Trouble Code Access</li> <li>Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-D 2.2)].)</li> </ul>	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
	<ul> <li>Are any other PENDING CODEs and/or DTCs present?</li> </ul>	No	Go to the next step.
4	INSPECT FUEL FILTER • Inspect the fuel filter for clogging. (See FUEL FILTER INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction?	Yes	Repair or replace the malfunctioning part according to the inspection results, then go to Step 9. (See FUEL FILTER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
5	INSPECT FUEL PRESSURE RELIEF VALVE  • Inspect the fuel pressure relief valve. (See FUEL PRESSURE RELIEF VALVE INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the common rail, then go to Step 9. (See COMMON RAIL REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
	is there any manufaction:	No	Go to the next step.
6	INSPECT SUCTION CONTROL VALVE  • Inspect the suction control valve. (See SUCTION CONTROL VALVE INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the suction control valve, then go to Step 9. (See SUCTION CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	INSPECT SUPPLY PUMP  • Inspect the supply pump. (See SUPPLY PUMP INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the supply pump, then go to the Step 9. (See SUPPLY PUMP REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
8	INSPECT FUEL PRESSURE SENSOR  • Inspect the fuel pressure sensor No.2 and fuel pressure sensor No.3. (See FUEL PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the fuel injector No.2 and/or fuel injector No.3, then go to the next step. (See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.

STEP	INSPECTION	RESULTS	ACTION
	RECORD VEHICLE STATUS AT TIME OF DTC DETECTION TO UTILIZE WITH REPEATABILITY VERIFICATION		
1	Note	_	Go to the next step.
	<ul> <li>Recording can be facilitated using the screen capture function of the PC.</li> <li>Record the snapshot data on the repair order.</li> </ul>		
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information.  • If the vehicle is not repaired, go to the next step.
	• Is any related repair information available?	No	Go to the next step.
3	INSPECT AMBIENT TEMPERATURE SENSOR CONNECTOR CONDITION  • Switch the ignition off.  • Disconnect the ambient temperature sensor connector.  • Inspect for poor connection (such as	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
	damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
4	<ul> <li>INSPECT PCM CONNECTOR CONDITION</li> <li>Disconnect the PCM connector.</li> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
	INSPECT AMBIENT TEMPERATURE SENSOR	Yes	Go to the next step.
5	SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY  • Verify that the ambient temperature sensor and PCM connectors are disconnected.  • Switch the ignition ON (engine off).  Note  • Another DTC may be stored by the PCM detecting an open circuit.  • Measure the voltage at the ambient temperature sensor terminal A (wiring harness-side).  • Is the voltage 0 V?	No	Refer to the wiring diagram and verify whether or not there is a common connector between ambient temperature sensor terminal A and PCM terminal 2AX.  If there is a common connector:  • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to power supply.  • Repair or replace the malfunctioning part.  If there is no common connector:  • Repair or replace the wiring harness which has a short to power supply.  Go to Step 8.
		Yes	Go to the next step.
6	INSPECT AMBIENT TEMPERATURE SENSOR CIRCUIT FOR OPEN CIRCUIT  • Verify that the ambient temperature sensor and PCM connectors are disconnected.  • Switch the ignition off.  • Inspect for continuity between the following terminals (wiring harness-side):  — Ambient temperature sensor terminal A-PCM terminal 2AX  — Ambient temperature sensor terminal B-PCM terminal 2AY  • Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals:  • Ambient temperature sensor terminal APCM terminal 2AX  • Ambient temperature sensor terminal BPCM terminal 2AY  If there is a common connector:  • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.  • Repair or replace the malfunctioning part.  If there is no common connector:  • Repair or replace the wiring harness which has an open circuit.  Go to Step 8.

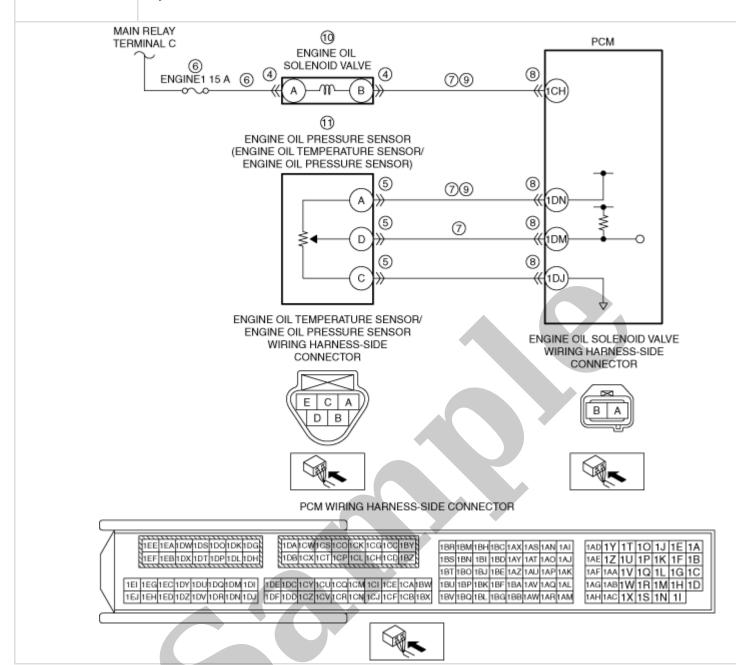
STEP	INSPECTION	ACTION	
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information.  • If the vehicle is not repaired, go to the next step.
	• Is any related repair information available?	No	Go to the next step.
3	<ul> <li>VERIFY RELATED PENDING CODE AND/OR DTC</li> <li>Switch the ignition off, then ON (engine off).</li> <li>Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-D 2.2)].)</li> <li>Are any other PENDING CODEs and/or DTCs</li> </ul>	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
	present?	No	Go to the next step.
4	INSPECT FUEL PRESSURE RELIEF VALVE  • Inspect the fuel pressure relief valve. (See FUEL PRESSURE RELIEF VALVE INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the common rail, then go to Step 11. (See COMMON RAIL REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
	is there any manufiction:	No	Go to the next step.
5	INSPECT SUCTION CONTROL VALVE  • Inspect the suction control valve. (See SUCTION CONTROL VALVE INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the suction control valve, then go to Step 11. (See SUCTION CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
6	INSPECT FUEL PRESSURE SENSOR  • Inspect the fuel pressure sensor. (See FUEL PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the common rail, then go to Step 11. (See COMMON RAIL REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	7 INSPECT FUEL INJECTOR • Inspect the fuel injector. (See FUEL INJECTOR INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction?	Yes	Replace the fuel injector, then go to Step 11. (See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
8	8 INSPECT FUEL PIPE  • Inspect the fuel pipe installation condition. (See FUEL SYSTEM LOCATION INDEX [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Install the fuel pipe properly, then go to Step 11.
		No	Go to the next step.
9	INSPECT FOR FUEL LEAKAGE FROM FUEL LINE OR CLOGGING  • Inspect the following fuel line for fuel leakage or clogging.  — Between supply pump and common rail	Yes	Repair or replace the malfunctioning part according to the inspection results then go to Step 11.
	<ul><li>— Between common rail and fuel injector</li><li>Is there any malfunction?</li></ul>	No	Go to the next step.
10	INSPECT SUPPLY PUMP  • Inspect the supply pump. (See SUPPLY PUMP INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the supply pump, then go to the next step. (See SUPPLY PUMP REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.

STEP	INSPECTION		ACTION
1	RECORD FREEZE FRAME DATA/SNAPSHOT DATA AND DIAGNOSTIC MONITORING TEST RESULTS TO UTILIZE WITH REPEATABILITY VERIFICATION  Note  • Recording can be facilitated using the screen capture function of the PC. • Record the FREEZE FRAME DATA/snapshot data on the repair order.	_	Go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information.  • If the vehicle is not repaired, go to the next step.
	• Is any related repair information available?	No	Go to the next step.
3	INSPECT WHETHER MALFUNCTION IS WIRING HARNESS OR OTHER  • Perform the KOEO self test. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-D 2.2)].)  • Is the IAT sensor No.2, Boost air temperature sensor, and/or EGR temperature sensor related DTC	Yes	Go to the applicable DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
	present?	No	Go to the next step.
4	<ul> <li>INSPECT IAT SENSOR NO.2 CONNECTOR CONDITION</li> <li>Switch the ignition off.</li> <li>Disconnect the IAT sensor No.2 connector.</li> <li>Inspect for poor connection (such as</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
	damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
5	INSPECT IAT SENSOR NO.2  • Inspect the IAT sensor No.2. (See INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [SKYACTIV-D 2.2].)  • Is there any malfunction?	Yes	Replace the IAT sensor No.2, then go to Step 7. (See INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
6	<ul><li>INSPECT PCM CONNECTOR CONDITION</li><li>Disconnect the PCM connector.</li><li>Inspect for poor connection (such as</li></ul>	Yes	Repair or replace the connector and/or terminals, then go to the next step.
	<ul><li>damaged/pulled-out pins, corrosion).</li><li>Is there any malfunction?</li></ul>	No	Go to the next step.
7	VERIFY DTC TROUBLESHOOTING COMPLETED  • Always reconnect all disconnected connectors.  • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [PCM (SKYACTIV-D 2.2)].)  • Leave the vehicle for 6 hours or more.  • Start the engine and idle it for 1 min.  • Perform the Pending Trouble Code Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-D 2.2)].)  • Is the PENDING CODE for this DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.  Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [PCM (SKYACTIV-D	Yes	Go to the applicable DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
	2.2)].) • Are any DTCs present?	No	DTC troubleshooting completed.
	• •		· · · · · · · · · · · · · · · · · · ·

STEP	INSPECTION	RESULTS	ACTION
6	INSPECT IAT SENSOR No.2 SIGNAL CIRCUIT FOR SHORT TO GROUND  • Verify that the IAT sensor No.2 and PCM connectors are disconnected.  • Inspect for continuity between IAT sensor No.2 terminal A (wiring harness-side) and body ground.  • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between IAT sensor No.2 terminal A and PCM terminal 2Q.  If there is a common connector:  • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.  • Repair or replace the malfunctioning part.  If there is no common connector:  • Repair or replace the wiring harness which has a short to ground.  Go to Step 8.
		No	Go to the next step.
7	INSPECT IAT SENSOR No.2 SIGNAL CIRCUIT AND GROUND CIRCUIT FOR SHORT TO EACH OTHER  • Verify that the IAT sensor No.2 and PCM connectors are disconnected.  • Inspect for continuity between IAT sensor No.2 terminals A and B (wiring harness-side).  • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals:  • IAT sensor No.2 terminal A-PCM terminal 2Q  • IAT sensor No.2 terminal B-PCM terminal 2R  If there is a common connector:  • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to each other.  • Repair or replace the malfunctioning part.  If there is no common connector:  • Repair or replace the wiring harness which has a short to each other.  Go to the next step.  Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED  • Always reconnect all disconnected connectors.  • Clear the DTC from the PCM memory using the M-MDS. (See CLEARING DTC [PCM (SKYACTIV-D 2.2)].)  • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-D 2.2)].)  • Is the PENDING CODE for this DTC	Yes	Repeat the inspection from Step 1.  • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
9	present?  VERIFY AFTER REPAIR PROCEDURE  • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [PCM (SKYACTIV-D 2.2)].)  • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
		No	DTC troubleshooting completed.

STEP	INSPECTION		ACTION
3	VERIFY RELATED PENDING CODE AND/OR DTC  • Switch the ignition off, then ON (engine off).  • Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [PCM]	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
	(SKYACTIV-D 2.2)].) • Are any other PENDING CODEs and/or DTCs present?	No	Go to the next step.
4	<ul> <li>INSPECT ENGINE OIL LEAKAGE</li> <li>Start the engine.</li> <li>Verify that there is no engine oil leakage in the oil passage.</li> </ul>	Yes	Repair or replace the malfunctioning part according to the inspection results, then add genuine engine oil. Go to Step 12.
	• Is there any leakage?	No	Go to the next step.
5	INSPECT ENGINE OIL LEVEL  Inspect the engine oil level. (See ENGINE OIL LEVEL INSPECTION [SKYACTIV-D 2.2].)	Yes	Go to the next step.
	• Is the engine oil level sufficient?	No	Add genuine engine oil, then go to the next step.
	INSPECT ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL PRESSURE SENSOR CONNECTOR CONDITION • Switch the ignition off. • Disconnect the engine oil temperature	Yes	Repair or replace the connector and/or terminals, then go to Step 12.
6	sensor/engine oil pressure sensor		
	connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
7	INSPECT ENGINE OIL PRESSURE SENSOR CIRCUIT FOR SHORT TO GROUND  • Verify that the engine oil temperature sensor/engine oil pressure sensor connector is disconnected.  • Inspect for continuity between the following terminals (wiring harness-side) and body ground:  — Engine oil temperature sensor/engine oil pressure sensor terminal A  — Engine oil temperature sensor/engine oil pressure sensor terminal D  • Is there continuity?	Yes	If the short to ground circuit could be detected in the wiring harness:  Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals:  — Engine oil temperature sensor/engine oil pressure sensor terminal A-PCM terminal 1DN  — Engine oil temperature sensor/engine oil pressure sensor terminal D-PCM terminal 1DM  If there is a common connector:  — Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.  — Repair or replace the malfunctioning part.  If there is no common connector:  — Repair or replace the wiring harness which has a short to ground.  If the short to ground circuit could not be detected in the wiring harness:  Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)  Go to Step 12.
		No	Go to the next step.





#### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	RECORD VEHICLE STATUS AT TIME OF DTC DETECTION TO UTILIZE WITH REPEATABILITY VERIFICATION  Note	_	Go to the next step.
_	<ul> <li>Recording can be facilitated using the screen capture function of the PC.</li> <li>Record the FREEZE FRAME DATA/snapshot data on the repair order.</li> </ul>		

STEP	INSPECTION		ACTION	
			If the short to ground circuit could be detected in the wiring harness: • Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals:	
7	INSPECT ENGINE OIL SOLENOID VALVE CIRCUIT AND ENGINE OIL PRESSURE SENSOR CIRCUIT FOR SHORT TO GROUND  • Verify that the engine oil solenoid valve and engine oil temperature sensor/engine oil pressure sensor connectors are disconnected.  • Switch the ignition off.  • Inspect for continuity between the following terminals (wiring harness-side) and body ground:  — Engine oil solenoid valve terminal B  — Engine oil temperature sensor/engine oil pressure sensor terminal A  — Engine oil temperature sensor/engine oil pressure sensor terminal D  • Is there continuity?	Yes	<ul> <li>Engine oil solenoid valve terminal B</li> <li>PCM terminal 1CH</li> <li>Engine oil temperature</li> <li>sensor/engine oil pressure sensor</li> <li>terminal A-PCM terminal 1DN</li> <li>Engine oil temperature</li> <li>sensor/engine oil pressure sensor</li> <li>terminal D-PCM terminal 1DM</li> <li>If there is a common connector:</li> <li>Determine the malfunctioning part</li> <li>by inspecting the common connector</li> <li>and the terminal for corrosion,</li> <li>damage, or pin disconnection, and the</li> <li>common wiring harness for a short to</li> <li>ground.</li> <li>Repair or replace the</li> <li>malfunctioning part.</li> <li>If there is no common connector:</li> <li>Repair or replace the wiring</li> <li>harness which has a short to ground.</li> <li>If the short to ground circuit could not be</li> <li>detected in the wiring harness:</li> <li>Replace the PCM (short to ground in the</li> <li>PCM internal circuit). (See PCM</li> <li>REMOVAL/INSTALLATION [SKYACTIV-D</li> <li>2.2].)</li> <li>Go to Step 12.</li> </ul>	
	WIGDEST POLICE VINESTED CONSTITUTION	No	Go to the next step.	
8	<ul> <li>INSPECT PCM CONNECTOR CONDITION</li> <li>Disconnect the PCM connector.</li> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 12.	
		No	Go to the next step.	
		Yes	Go to the next step.	
9	INSPECT ENGINE OIL SOLENOID VALVE CIRCUIT AND ENGINE OIL PRESSURE SENSOR CIRCUIT FOR OPEN CIRCUIT  • Verify that the engine oil solenoid valve and engine oil temperature sensor/engine oil pressure sensor and PCM connectors are disconnected.  • Inspect for continuity between the following terminals (wiring harness-side):  — Engine oil solenoid valve terminal B-PCM terminal 1CH — Engine oil temperature sensor/engine oil pressure sensor terminal A-PCM terminal 1DN  • Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals:  • Engine oil solenoid valve terminal B-PCM terminal 1CH  • Engine oil temperature sensor/engine oil pressure sensor terminal A-PCM terminal 1DN  If there is a common connector:  • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.  • Repair or replace the malfunctioning part. If there is no common connector:  • Repair or replace the wiring harness which has an open circuit.  Go to Step 12.	

diesel particulate filter regeneration control.

- If the exhaust gas temperature sensor No.3 value is higher than the threshold even though the feedback amount of the fuel injection control post-injection during diesel particulate filter regeneration control reaches the minimum, the PCM determines that the diesel particulate filter regeneration control is not operating normally.
- If the PCM detects the malfunction condition during first drive cycle, a malfunction is determined and a pending code is stored.
- If the PCM determines that the malfunction recurs from the next drive cycle and thereafter, it stores a DTC and turns on the check engine light.

## Repeatability Verification Procedure

• Perform diesel particulate filter regeneration. (See COMPULSORY DIESEL PARTICULATE FILTER REGENERATION [SKYACTIV-D 2.2].

## PID Item/Simulation Item Used In Diagnosis

#### PID/DATA monitor item table

Item	Definition	Unit	Condition/Specification
EXHTEMP2	Exhaust gas temperature sensor No.3	°C, °F	• Displays the exhaust gas temperature (No.3).
02S11	A/F sensor current	μА	• Idle: Approx. 1.01 mA • Deceleration fuel cut: Approx. 3.84 mA
	A/F sensor voltage	V	<ul> <li>Switch ignition ON (engine off): 3.24 V</li> <li>Deceleration fuel cut: Approx. 3.74 V</li> </ul>

# **Function Inspection Using M-MDS**

STEP	INSPECTION	RESULTS	ACTION
1	PURPOSE: VERIFY RELATED REPAIR INFORMATION AVAILABILITY  • Verify related Service Bulletins and/or on-line repair information availability.  • Is any related repair information available?	Yes	Perform repair or diagnosis according to the available repair information.  • If the vehicle is not repaired, go to the next step.
	• Is any related repair information available?	No	Go to the next step.
	PURPOSE: IDENTIFY TRIGGER DTC FOR FREEZE FRAME DATA  • Is the DTC P106B:00 on FREEZE FRAME DATA?	Yes	Go to the next step.
2		No	Go to the troubleshooting procedure for DTC on FREEZE FRAME DATA. (See DTC TABLE [PCM (SKYACTIV-D 2.2)].)
3	PURPOSE: RECORD FREEZE FRAME DATA/SNAPSHOT DATA AND DIAGNOSTIC MONITORING TEST RESULTS TO UTILIZE WITH REPEATABILITY VERIFICATION  Note  • Recording can be facilitated using the screen capture function of the PC. • Record the FREEZE FRAME DATA/Snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (A/F sensor related) on the repair order.	_	Go to the next step.