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2003 MAZDA Tribute OEM Service and Repair Workshop Manual

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STEP	INSPECTION	RESULTS	ACTION
		Yes	Go to the next step.
3	INSPECT ECT SENSOR SIGNAL • Access the ECT PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) • Compare the ECT PID and low engine coolant temperature indicator light and high engine coolant temperature warning light operation. • Is the ECT PID value same as indicator/warning light readings?	No	Inspect the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • If there is any malfunction: — Replace the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • If there is no malfunction: — Perform the instrument cluster symptom troubleshooting "LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT/HIGH ENGINE COOLANT TEMPERATURE WARNING LIGHT ILLUMINATES OR FLASHES CONTINUOUSLY". (See LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT/HIGH ENGINE COOLANT TEMPERATURE WARNING LIGHT ILLUMINATES OR FLASHES CONTINUOUSLY [INSTRUMENT CLUSTER].)
4	INSPECT COOLING FAN CONTROL SYSTEM OPERATION • Perform the Cooling Fan Control System Inspection. (See ENGINE CONTROL SYSTEM OPERATION INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • Does the cooling fan control system operate properly?	Yes	Go to the next step. Repair or replace the malfunctioning part according to the inspection results.
5	INSPECT COOLANT CONTROL VALVE • Inspect the coolant control valve. (See COOLANT CONTROL VALVE INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • Is there any malfunction?	Yes	Replace the coolant control valve. (See COOLANT CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Reinstall the coolant control valve, then go to the next step. (See COOLANT CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
6	VERIFY THAT NO FOREIGN MATTER IS IN ENGINE COOLANT • Drain the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • Has foreign matter penetrated the engine coolant?	Yes	Replace the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Go to the next step.
7	Verify the test results. • If normal, return to the diagno [SKYACTIV-G 2.5 (WITHOUT CYI) • If the malfunction remains, ins repair or diagnosis. — If the vehicle is repaired, to	pect the related Se roubleshooting is dedorated or additional dia	rvice Bulletins and/or On-line Repair Information and perform

later calibration is available. Retest.

Related PIDs

Item (definition)	Unit/Condition	Definition	Condition/Specification (Reference)
APP1	%	APP sensor No.1	Accelerator pedal released: Approx. 15%Accelerator pedal depressed: Approx. 90.58%
	V	APP SEIISUI NU.1	 Accelerator pedal released: Approx. 0.75 V Accelerator pedal depressed: Approx. 4.52 V
APP2	%	APP sensor No.2	Accelerator pedal released: Approx. 7.45%Accelerator pedal depressed: Approx. 45.49%
APPZ	V	APP Sensor No.2	 Accelerator pedal released: Approx. 0.38 V Accelerator pedal depressed: Approx. 2.26 V
	°C, °F		Displays ECT
ECT	V	Engine coolant temperature	• ECT is 20 °C {68 °F}: Approx. 3.10 V • ECT is 40 °C {104 °F}: Approx. 2.16 V • ECT is 60 °C {140 °F}: Approx. 1.40 V • ECT is 80 °C {176 °F}: Approx. 0.87 V • ECT is 100 °C {212 °F}: Approx. 0.54 V
	KPa {MPA}, mBar {BAR}, psi, in H20	Fuel pressure input from fuel pressure sensor	Displays fuel pressure
FUEL_PRES			• Idle (ECT 80 °C {176 °F})
_	V	Fuel pressure sensor voltage	— Fuel pressure is 10 MPa $\{102 \text{ kgf/cm}^2, 1450 \text{ psi}\}$: Approx. 1.4 V
	°C, °F		Displays IAT (No.1)
IAT	V	IAT sensor No.1 voltage	• IAT is 20 °C {68 °F}: Approx. 2.70 V • IAT is 40 °C {104 °F}: Approx. 1.80 V • IAT is 60 °C {140 °F}: Approx. 1.20 V
LOAD	%	Engine load	 Idle (after warm up): Approx. 16.07% Racing (engine speed is 2,000 rpm): Approx. 13.33% Racing (engine speed is 4,000 rpm): Approx. 15.29%
LONGFT1	%	Long term fuel trim	 Idle (after warm up): Approx3.9% Racing (engine speed is 2,000 rpm): Approx0.78% Racing (engine speed is 4,000 rpm): Approx0.78%
	g/Sec		Displays MAF
MAF	V	Mass air flow	 Ignition switched ON (engine off) (MAF: 0.00 g/s {0 lb/min}): Approx. 1.69 V (ECT is 53 °C {127 °F}) Idle (after warm up) (MAF: 2.50 g/s {0.331 lb/min}): Approx. 1.89 V (ECT is 93 °C {199 °F}) Racing (engine speed is 2,000 rpm) (MAF: 3.80 g/s {0.503 lb/min}): Approx. 2.02 V (ECT is 95 °C {203 °F})
MAP	KPa {MPA}, mBar {BAR}, psi, in H20	Manifold absolute pressure	Displays MAP
MAP_V	V	MAP sensor voltage	• Ignition switched ON (engine off) (MAP:100 kPa $\{1.02 \text{ kgf/cm}^2, 14.5 \text{ psi}\}$): Approx. 4.04 V • Idle (after warm up) (MAP: 35 kPa $\{0.36 \text{ kgf/cm}^2, 5.1 \text{ psi}\}$): Approx. 1.40 V • Racing (engine speed is 2,000 rpm) (MAP: 26 kPa $\{0.27 \text{ kgf/cm}^2, 3.8 \text{ psi}\}$): Approx. 1.01 V
02\$11	μА	A/F sensor	 Idle (after warm up): Approx39 μA Deceleration fuel cut (accelerator pedal released from engine speed of 4,000 rpm or more): Approx. 3.84 mA
02S12	V	HO2S	• Idle (after warm up): 0−1.0 V • Deceleration fuel cut (accelerator pedal released from engine speed of 4,000 rpm or more): Approx. 0 V
RPM	RPM	Engine speed	Displays engine speed
SHRTFT1	%	Short term fuel trim	 Idle (after warm up): Approx. 2.34% Racing (engine speed is 2,000 rpm): Approx. 3.9% Racing (engine speed is 4,000 rpm): Approx. 1.56%
TP_REL	%	Throttle position signal (relative value)	Accelerator pedal released: Approx. 12%Accelerator pedal depressed: Approx. 82%

STEP	INSPECTION	RESULTS	ACTION
8	INSPECT EXHAUST SYSTEM FOR LEAKAGE • Visually inspect for exhaust gas leakage from exhaust manifold.		Repair or replace the malfunctioning part according to the inspection results.
	• Is there any leakage?	No	Go to the next step.
		Yes	Go to Step 13.
			Lower than 10 MPa {102 kgf/cm², 1,450 psi}: • Inspect the following:
			Fuel leakage at the fuel line and fuel injectorFuel pump
9	INSPECT FUEL PRESSURE (HIGH-SIDE) • Start the engine and warm it up completely. • Access the FUEL_PRES PID using the M-MDS at idle. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) • Is the FUEL_PRES PID value approx. 10 MPa {102 kgf/cm², 1,450 psi}?	No	 Perform the Fuel Pump (Low-pressure Side) Operation Inspection. (See ENGINE CONTROL SYSTEM OPERATION INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) — Fuel pressure sensor (See FUEL PRESSURE SENSOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) — High pressure fuel pump (See HIGH PRESSURE FUEL PUMP INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • If there is any malfunction: — Repair or replace the malfunctioning part according to the inspection results. • If there is no malfunction: — Go to Step 12. Higher than 10 MPa {102 kgf/cm², 1,450 psi}: • Go to the next step.
10	DETERMINE IF MALFUNCTION CAUSE IS FUEL PRESSURE SENSOR OR HIGH PRESSURE FUEL PUMP	Yes	Go to the next step.
10	• Is the vehicle acceleration performance normal?	No	Go to Step 12.
11	INSPECT FUEL PRESSURE SENSOR • Inspect the fuel pressure sensor. (See FUEL PRESSURE SENSOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)	Yes	Replace the fuel distributor. (See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
	• Is there any malfunction?	No	Go to Step 13.

NO.20 FUEL ODOR (IN ENGINE COMPARTMENT) [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

SM2897166

id0103s380260

20	FUEL ODOR (IN ENGINE COMPARTMENT)
DESCRIPTION	Gasoline fuel smell or visible leakage.
POSSIBLE CAUSE	 Missing or loose fuel filler cap Fuel filler cap malfunction (seal malfunction) Fuel leakage from fuel system Charcoal canister damage Vacuum hose (disconnection, damage) between fuel tank, charcoal canister, purge solenoid valve, and intake manifold Fuel leakage at the fuel injector Purge solenoid valve malfunction (stuck) Warning The following troubleshooting flow chart contains the fuel system diagnosis and repair procedures. Read the following warnings before performing the fuel system services: Fuel vapor is hazardous. It can easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel. Fuel line spills and leakage are dangerous. Fuel can ignite and cause serious injury or death and damage. Fuel can also irritate skin and eyes. To prevent this, always complete "BEFORE SERVICE PRECAUTION" and "AFTER SERVICE PRECAUTION" described in this manual. (See BEFORE SERVICE PRECAUTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Caution
	 Disconnecting/connecting the quick release connector without cleaning it may possibly cause damage to the fuel pipe and quick release connector. Always clean the quick release connector joint area before disconnecting/connecting, and make sure that it is free of foreign matter.

Caution

• Verify the malfunction symptom according to not only the PID value but also the symptom troubleshooting.

Related PIDs

Item (definition)	Unit/Condition	Definition	Condition/Specification (Reference)
	KPa {MPA}, mBar {BAR}, psi, in H20	Fuel pressure input from fuel pressure sensor	Displays fuel pressure
FUEL_PRES	V	Fuel pressure sensor voltage	 Idle (ECT 80 °C {176 °F}) — Fuel pressure is 10 MPa {102 kgf/cm ², 1450 psi}: Approx. 1.4 V

NO.21 ENGINE NOISE [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

SM2897167

id0103s380270

21	ENGINE NOISE
DESCRIPTION	Engine noise from under hood.



STEP	INSPECTION	RESULTS	ACTION
4	VERIFY IF THERE IS THUMPING/RATTLING OR CREAKING SOUND • Inspect the following: — Drive belt tension — Loose parts in engine compartment — Loose fitting heater	Yes	Repair or replace the malfunctioning part according to the inspection results.
	hoses vibrating the heater hose bracket protector • Is there any malfunction?	No	Go to Step 9.
5	VERIFY IF THERE IS HISSING SOUND Inspect the following:	Yes	Repair or replace the malfunctioning part according to the inspection results.
	— Intake-air systemleakageIs there any malfunction?	No	Go to Step 9.
6	VERIFY IF THERE IS CLATTERING SOUND • Inspect the location of rattle for loose parts.	Yes	Repair or replace the malfunctioning part according to the inspection results.
	• Is there any malfunction? VERIFY IF THERE IS LIGHTLY	No	Go to Step 9.
7	TAPPING OR RUMBLING SOUND Inspect the following: Exhaust system installation condition	Yes	Repair or replace the malfunctioning part according to the inspection results.
	— Intake system installation conditionIs there any malfunction?	No	Go to Step 9.
		Yes	Perform the symptom troubleshooting "NO.13 KNOCKING/PINGING-ACCELERATION/CRUISE". (See NO.13 KNOCKING/PINGING-ACCELERATION/CRUISE [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
8	VERIFY IF THERE IS KNOCK SOUND • Is knocking noise present?	No	If noise comes from engine internal: Inspect the following: — Timing chain — Hydraulic lash adjuster (HLA) noise — Electric variable valve timing actuator — Hydraulic variable valve timing actuator — Engine compression Repair or replace the malfunctioning part according to the inspection results.
9	[SKYACTIV-G 2.5 (WITHOUT CY	LINDER DEACTIVA	re any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX TION)].) ervice Bulletins and/or On-line Repair Information and perform

- repair or diagnosis.
 - If the vehicle is repaired, troubleshooting is completed.
 - If the vehicle is not repaired or additional diagnostic information is not available, reprogram the PCM if a later calibration is available. Retest.

ENGINE CONTROL SYSTEM OPERATION INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

SM2897171

id0103s380370

Special Service Tool (SST)

MAZ-95-130-KT

Dual purpose diagnostic leak detector



Main Relay Operation Inspection

- 1. Verify that the main relay clicks when the ignition is switched ON and then off.
 - If there is no operation sound, inspect the following:
 - Main relay (See RELAY INSPECTION.)
 - Wiring harness and connector between battery and main relay terminal A
 - Wiring harness and connector between PCM terminal 2B and main relay terminal E

Intake Manifold Vacuum Inspection

- 1. Verify the air intake hoses are installed properly.
- 2.Start the engine and let it idle.
- 3.Disconnect the vacuum hose between the intake manifold and purge solenoid valve from the intake manifold side.
- 4. Connect a vacuum gauge to the intake manifold and measure the intake manifold vacuum.
 - If not within specification, inspect the following:

Specification

-60.0 kPa {-450 mmHg, -17.7 inHg}

Note

- Air suction can be located by the engine speed change when lubricant is sprayed on the area where suction is occurring. Check the following places:
 - Air suction at throttle body, charge air cooler, intake manifold and PCV valve installation points

Item (definition)	Unit/Condition	Definition	Condition/Specification (Reference)
RPM	RPM	Engine speed	Displays engine speed

Drive-by-wire Control System Inspection

Engine coolant temperature compensation inspection

- 1.Connect the M-MDS to the DLC-2.
- 2. Select the following PIDs: (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].)
 - ECT
 - IAT
 - RPM
- 3. Verify that the engine is cold, then start the engine.
- 4. Verify that the engine speed decreases as the engine warms up.
 - If the engine speed does not decrease or decreases slowly, inspect the following:
 - ECT sensor and related wiring harness (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
 - Throttle body and related wiring harness (See THROTTLE BODY INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)

Related PIDs

Item (definition)	Unit/Condition	Definition	Condition/Specification (Reference)
	°C, °F		Displays ECT
ECT	V	Engine coolant temperature	• ECT is 20 °C {68 °F}: Approx. 3.10 V • ECT is 40 °C {104 °F}: Approx. 2.16 V • ECT is 60 °C {140 °F}: Approx. 1.40 V • ECT is 80 °C {176 °F}: Approx. 0.87 V • ECT is 100 °C {212 °F}: Approx. 0.54 V
	°C, °F		• Displays IAT (No.1)
IAT	V	intake all temperature (NO.1)	• IAT is 20 °C {68 °F}: Approx. 2.70 V • IAT is 40 °C {104 °F}: Approx. 1.80 V • IAT is 60 °C {140 °F}: Approx. 1.20 V
RPM	RPM	Engine speed	Displays engine speed

Load compensation inspection

- If the engine speed does not become approx. 1,200 rpm, inspect for the following parts, then repair or replace the malfunctioning part:
 - APP sensor (See ACCELERATOR PEDAL POSITION (APP) SENSOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)
 - Brake switch (See BRAKE SWITCH INSPECTION.)
 - Communication between PCM and TCM (See CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [TYPE-A (SKYACTIV-G 2.5)].)

Fuel Injector Operation Inspection

If simulation function of M-MDS is used:

Start the engine and warm it up completely. Access the INJ_1, INJ_2, INJ_3 and INJ_4 PIDs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST IPCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION))].) Turn each fuel injector from on to off using the PIDs for each cylinder. Does the engine speed drop? Perform the Main Relay Operation Inspection. (See Main Relay Operation Inspection.) Does the main relay work properly? Perform the Main Relay Operation Inspection. See Main Relay Operation Inspection. Yes Go to the next step. Repair or replace the malfunctioning part according to the inspection results. Replace the fuel injector. (See FUEL INJECTOR REMOVAL/INSTALLATION ISKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Is there any malfunction? No Perform the KOER self test using the M-MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Are the DTCs PO201:00, PO202:00, PO202:00, PO203:00 and/or PO204:00 present? Pocartivation)].) No Go to the next step. Fingine speed does not drop an any cylinder: Go to the next step. Repair or replace the malfunctioning part according to the inspection results. Replace the fuel injector. (See FUEL INJECTOR REMOVAL/INSTALLATION ISKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Inspect the fuel injector of the suspected cylinder. Inspect the fuel injector of the suspected cylinder. Inspect the fuel injector of the suspected cylinder. Inspect the fuel injector power and/or ground systems related wiring harness and connectors for the suspected cylinder. Inspect the fuel injector power and/or ground systems related wiring harness and connectors for the suspected cylinder. Inspect the fuel injector power and/or ground systems related wiring harness and connectors for the suspected cylinder. Inspect the fuel injector power and/or ground systems related wiring harness and connectors for the suspected cylinder. Inspect the fuel injector (See PCM Repair or replace the malfunctioning part according to the inspection results. Go to th	STEP	INSPECTION		ACTION		
PIDS using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Turn each fuel injector from on to off using the PIDs for each cylinder. Does the engine speed drop? Perform the Main Relay Operation Inspection. (See Main Relay Operation Inspection.) Does the main relay work properly? Yes Replace the fuel injector. (See FUEL INJECTOR INSPECTION ISKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Is there any malfunction? Perform the KOER self test using the M-MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Are the PIDS PO201:00, P0202:00, P0203:00 and/or P0204:00 present?		completely.	Yes	Fuel injectors work properly.		
Inspection. (See Main Relay Operation Inspection.) No Repair or replace the malfunctioning part according to the inspection results.	1	PIDs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) Turn each fuel injector from on to off using the PIDs for each cylinder.	No	• Go to the next step. Engine speed drops on some cylinders:		
See Main Relay Operation Inspection. No Repair or replace the malfunctioning part according to the inspection results.			Yes	Go to the next step.		
See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Inspect the fuel injector of the suspected cylinder. (See FUEL INJECTOR INSPECTION [SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Is there any malfunction? No Removal/Installation [Skyactiv-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) If not: Repair or replace the malfunctioning part according to the inspection results. Perform the KOER self test using the M-MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0201:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0203:00 [PCM (SKYACTIV-6 2.5 (WITH	2	(See Main Relay Operation Inspection.)	No			
Inspect the fuel injector of the suspected cylinder. (See FUEL INJECTOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) Is there any malfunction? Perform the KOER self test using the M-MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) (See DTC P0201:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]].) Are the DTCs P0201:00, P0202:00, P0203:00 and/or P0204:00 present? Systems related wiring harness and connectors for the suspected cylinder. If all items normal: — Replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]].) (See DTC P0201:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0202:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0203:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0204:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].)			Yes	(See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER		
Perform the KOER self test using the M-MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0202:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0203:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0203:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0204:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].)	3	cylinder. (See FUEL INJECTOR INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].)	No	systems related wiring harness and connectors for the suspected cylinder. • If all items normal: — Replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].) • If not: — Repair or replace the malfunctioning		
No Go to the next step.	4	MDS. (See KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) Are the DTCs P0201:00, P0202:00,	Yes	(See DTC P0201:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0202:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0203:00 [PCM (SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION))].) (See DTC P0204:00 [PCM (SKYACTIV-G 2.5		
			No	Go to the next step.		