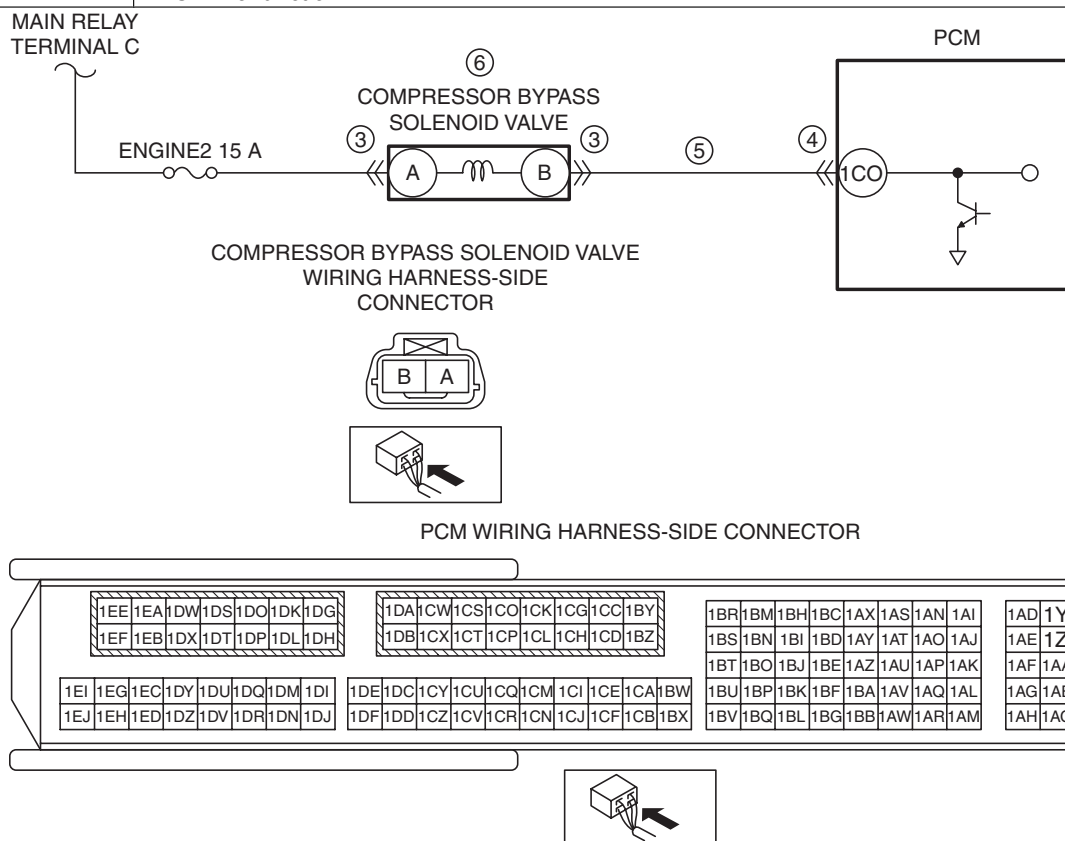


DTC P0035:00 [SKYACTIV-D 2.2]

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DTC P0035:00	Compressor bypass solenoid valve control circuit high input
DETECTION CONDITION	<ul style="list-style-type: none"> If the PCM detects that the compressor bypass solenoid valve current at the PCM terminal 1CO is 5.9 A or more for 1 s with the following condition met, the PCM determines that the compressor bypass solenoid valve circuit voltage is high. <p>MONITORING CONDITIONS</p> <ul style="list-style-type: none"> Battery voltage: 8.8—16 V <p>Diagnostic support note</p> <ul style="list-style-type: none"> This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Compressor bypass solenoid valve connector or terminals malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between compressor bypass solenoid valve terminal B and PCM terminal 1CO Compressor bypass solenoid valve malfunction PCM malfunction



Diagnostic Procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/SNAPSHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded? 	<p>Yes: Go to the next step.</p> <p>No: Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.</p>
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	<p>Yes: Perform repair or diagnosis according to the available Service Information.</p> <p>No: Go to the next step.</p>

STEP	INSPECTION		ACTION
3	INSPECT COMPRESSOR BYPASS SOLENOID VALVE CONNECTOR CONDITION <ul style="list-style-type: none"> • Switch the ignition off. • Disconnect the compressor bypass solenoid valve connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
		No	Go to the next step.
5	INSPECT COMPRESSOR BYPASS SOLENOID VALVE CONTROL CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> • Verify that the compressor bypass solenoid valve and PCM connectors are disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the compressor bypass solenoid valve terminal B (wiring harness-side). • Is the voltage 0 V? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.
6	INSPECT COMPRESSOR BYPASS SOLENOID VALVE <ul style="list-style-type: none"> • Inspect the compressor bypass solenoid valve. (See COMPRESSOR BYPASS SOLENOID VALVE INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction? 	Yes	Replace the compressor bypass solenoid valve, then go to the next step. (See COMPRESSOR BYPASS SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].) • Is the same 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.
		No	Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the “AFTER REPAIR PROCEDURE”. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.