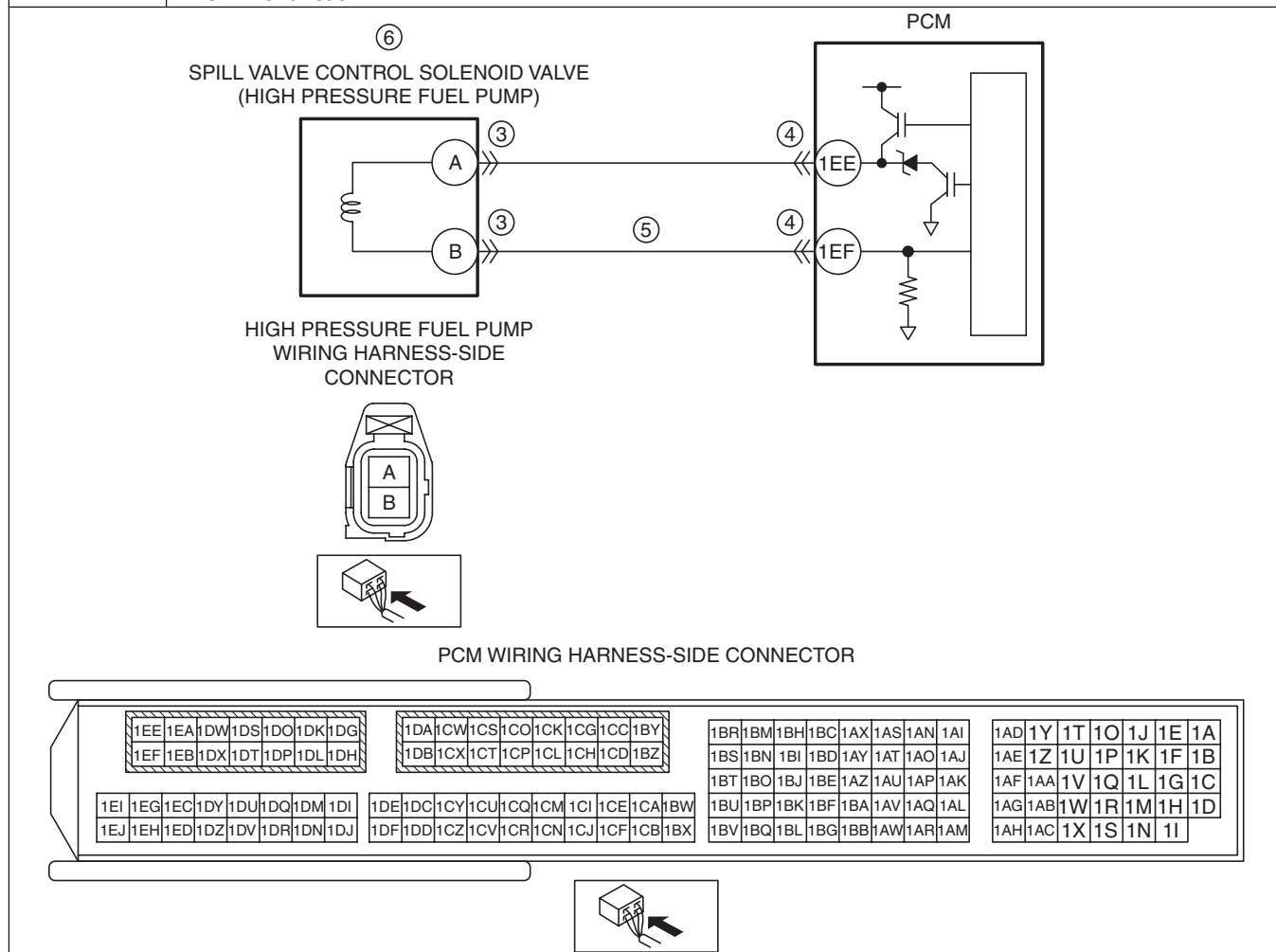


DTC P0092:00	Fuel pressure regulator control circuit high input
DETECTION CONDITION	<ul style="list-style-type: none"> When the PCM turns the spill valve control solenoid valve on but the spill valve control solenoid valve circuit voltage is high for 5 s, the PCM determines that the spill valve control solenoid valve control circuit has a malfunction. <p>MONITORING CONDITIONS</p> <ul style="list-style-type: none"> The following conditions are met: <ul style="list-style-type: none"> Engine speed: 5,700 rpm or less Battery voltage: 10.5 V or more <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"> Stops high pressure fuel pump control Limits intake air amount
POSSIBLE CAUSE	<ul style="list-style-type: none"> High pressure fuel pump connector or terminals malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between high pressure fuel pump terminal B and PCM terminal 1EF Spill valve control solenoid valve (built-into high pressure fuel pump) 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? 	Yes Go to the next step.
		No Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	Yes Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	INSPECT HIGH PRESSURE FUEL PUMP CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the high pressure fuel pump 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 SPILL VALVE CONTROL SOLENOID VALVE CONTROL CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> Verify that the high pressure fuel pump and PCM connectors are disconnected. Switch the ignition ON (engine off). <p>Note</p> <ul style="list-style-type: none"> Another DTC may be stored by the PCM detecting an open circuit. Measure the voltage at the high pressure fuel pump 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 SPILL VALVE CONTROL SOLENOID VALVE <ul style="list-style-type: none"> Switch the ignition off. Reconnect all disconnected connectors. Inspect the spill valve control solenoid valve. (See HIGH PRESSURE FUEL PUMP INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Is there any malfunction? 	Yes Replace the high pressure fuel pump, then go to the next step. (See HIGH PRESSURE FUEL PUMP REMOVAL/ INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		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-G 2.0, SKYACTIV-G 2.5].) Start the engine. Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Is the same DTC present? 	Yes Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) 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-G 2.0, SKYACTIV-G 2.5].) Are any DTCs present? 	Yes Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No DTC troubleshooting completed.