

DTC P1329:00 [SKYACTIV-D 2.2]

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DTC P1329:00	Common rail pressure higher than desired (engine running)
DETECTION CONDITION	<ul style="list-style-type: none"> When the following conditions are met, the common rail fuel pressure value exceeds 250 MPa {2,549 kgf/cm², 36,260 psi} or the fuel pressure value exceeds the value calculated by the PCM based on the engine speed for a continuous 60 s. MONITORING CONDITIONS <ul style="list-style-type: none"> Battery voltage: 8—20 V During engine running When the following conditions are met, the common rail fuel pressure value exceeds 217 MPa {2,213 kgf/cm², 31,473 psi} or the fuel pressure value exceeds the value calculated by the PCM based on the engine speed for a continuous 60 s. MONITORING CONDITIONS <ul style="list-style-type: none"> Battery voltage: 8—20 V During engine running <p>Diagnostic support note</p> <ul style="list-style-type: none"> This is an intermittent monitor (fuel system). The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. PENDING CODE is available 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"> PCM restricts engine torque. Increase the idle speed. Inhibits the diesel particulate filter regeneration control. Inhibits engine-stop by operating the i-stop function.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Fuel filter clogged Fuel pressure relief valve malfunction Fuel pressure sensor malfunction Suction control valve malfunction Fuel pipe perforation or breakage (improper connection) PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic Procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA AND DIAGNOSTIC MONITORING TEST RESULTS HAVE BEEN RECORDED <ul style="list-style-type: none"> Have the FREEZE FRAME DATA (Mode 2)/ snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (fuel system related) been recorded? 	Yes Go to the next step.
		No Record the FREEZE FRAME DATA (Mode 2)/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS 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	VERIFY RELATED PENDING CODE AND/OR DTC <ul style="list-style-type: none"> Switch the ignition off, then ON (engine off). Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Are any other PENDING CODEs and/or DTCs present? 	Yes Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No Go to the next step.

STEP	INSPECTION	ACTION
4	INSPECT FUEL FILTER <ul style="list-style-type: none"> 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].)
5	INSPECT FUEL PRESSURE RELIEF VALVE <ul style="list-style-type: none"> 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].)
6	INSPECT FUEL PRESSURE SENSOR <ul style="list-style-type: none"> 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 9. (See COMMON RAIL REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
7	INSPECT SUCTION CONTROL VALVE <ul style="list-style-type: none"> 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].)
8	INSPECT FUEL PIPE <ul style="list-style-type: none"> 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 the next step.
9	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].) Start the engine and warm it up completely. <p>Caution</p> <ul style="list-style-type: none"> While performing this step, always operate the vehicle in a safe and lawful manner. When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later. Drive the vehicle under the FREEZE FRAME DATA (Mode 2)/snapshot data condition. Perform the Pending Trouble Code Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [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.
10	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.