

DTC P117A:00 [SKYACTIV-D 2.2]

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| DTC P117A:00 | Record of torque restriction for piston protection |
| DETECTION CONDITION | <ul style="list-style-type: none"> The engine oil pressure is the specified value or less for a continuous 8 s. Diagnostic support note <ul style="list-style-type: none"> This is a continuous monitor (other). The check engine light does not illuminate. FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. DTC is stored in the PCM memory. |
| FAIL-SAFE FUNCTION | Not applicable |
| POSSIBLE CAUSE | <ul style="list-style-type: none"> Engine oil pressure is low. Engine oil temperature is high. High engine speed condition is continued with the engine oil diluted. Engine oil pressure sensor malfunction PCM malfunction |
| SYSTEM WIRING DIAGRAM | Not applicable |

Diagnostic Procedure

| STEP | INSPECTION | | ACTION |
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| 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 | 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. |
| 4 | INSPECT EFFECT OF VEHICLE CONDITION FOR MALFUNCTION <ul style="list-style-type: none"> Verify how the customer drives the vehicle by asking the customer the following: <ul style="list-style-type: none"> Continue the high engine speed condition with the message "Soot Accumulation in DPF too high" displayed in the TFT LCD. (with TFT LCD) Continue high engine speed condition with the DPF indicator light illuminated. (without TFT LCD) Is the use situation as indicated above? | Yes | Explain to the customer that the vehicle is normal. (Malfunction caused by driving at high engine speed with engine oil diluted) If there is a concern with customer's driving, provide the customer some pertinent advice (such as gear selection, how to use manual mode). |
| | | No | Go to the next step. |
| 5 | INSPECT ENGINE OIL LEAKAGE <ul style="list-style-type: none"> Start the engine. Visually inspect the engine oil runner for engine oil leakage. Is there any leakage? | Yes | Repair or replace the malfunctioning part, add genuine engine oil, then go to Step 7. |
| | | No | Go to the next step. |
| 6 | INSPECT ENGINE OIL PRESSURE SENSOR <ul style="list-style-type: none"> Inspect the engine oil pressure sensor. (See ENGINE OIL PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].) Is there any malfunction? | Yes | Replace the engine oil temperature sensor/engine oil pressure sensor, then go to the next step. (See ENGINE OIL TEMPERATURE SENSOR/ENGINE OIL PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) |
| | | No | Go to the next step. |

| STEP | INSPECTION | | ACTION |
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| 7 | VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • 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. • Drive the vehicle. • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC 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 | Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) |
| 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. |