

DTC P0313:00 [SKYACTIV-D 2.2]

id0102s4156500

DTC P0313:00	Misfire detected with low fuel
DETECTION CONDITION	<ul style="list-style-type: none"> • "Injection amount cumulative value after lowering point E", which is calculated by the PCM, exceeds the threshold value (larger than DTC P115A:00). 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 available. • DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • 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 runout • Fuel gauge (integrated in instrument cluster) malfunction • Fuel gauge sender unit malfunction • PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

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	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].) • Is the PENDING CODE/DTC P115B:00 also present? 	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC P115B:00 [SKYACTIV-D 2.2].)
		No	Go to the next step.
4	INSPECT WHETHER MALFUNCTION IS FUEL RUNOUT OR OTHER <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].) • Switch the ignition off. • Refill the fuel above 9 L {2 US gal, 2 Imp gal}. • Start the engine and warm it up completely. • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC P115A:00 or P0313:00 present? Note <ul style="list-style-type: none"> • If the refueling amount is low, the PCM stored DTC P115A:00 or P0313:00 continues. 	Yes	Go to the next step.
		No	Any other PENDING CODEs and/or DTCs are present: <ul style="list-style-type: none"> • Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) Any other PENDING CODEs and/or DTCs are not present: <ul style="list-style-type: none"> • The cause of this DTC is low fuel level. <ul style="list-style-type: none"> — DTC troubleshooting completed.

STEP	INSPECTION	ACTION	
5	REINSPECT WHETHER MALFUNCTION IS FUEL RUNOUT OR OTHER <ul style="list-style-type: none"> Switch the ignition off. Refill the fuel till fuel level is above 9 L {2 US gal, 2 Imp gal}. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Switch the ignition off. Refill the fuel above 9 L {2 US gal, 2 Imp gal}. Start the engine and warm it up completely. Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Is the DTC P115A:00 or P0313:00 present? 	Yes	Inspect the fuel gauge. (See INSTRUMENT CLUSTER INSPECTION.) <ul style="list-style-type: none"> Repair or replace the malfunctioning part according to the inspection results, then go to the next step.
		No	Any other PENDING CODEs and/or DTCs are present: <ul style="list-style-type: none"> Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) Any other PENDING CODEs and/or DTCs are not present: <ul style="list-style-type: none"> The cause of this DTC is low fuel level. <ul style="list-style-type: none"> — DTC troubleshooting completed.
6	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].) Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Is the same DTC present? 	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	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.