

Subject: CHECK ENGINE LIGHT AND SCR WARNING LIGHT ON WITH DTC P20E8:00 AND/OR P20E9:00	Bulletin No.: 01-013/19
	Last Issued: 07/16/2019

APPLICABLE MODEL(S):

2018-2019 CX-5 SKYACTIV-D 2.2L

DESCRIPTION

Some customers may experience both the check engine light and Selective Catalytic Reduction (SCR) warning light illuminating at the same time.

This concern may be caused by lower and/or higher pressures that are detected, which are caused by micro air bubbles that remain inside the urea tank. The micro air bubbles are created at the production line when the liquid (urea) is poured quickly into the urea tank. To eliminate this concern, the pump filter will be modified to reduce any remaining micro air bubbles.



Selective Catalytic Reduction (SCR) system
Warning Indication/Warning Light

DTC P20E8:00 and/or P20E9:00 stored in Dosing Control Unit (DCU) memory

- P20E8:00 - Urea pump pressure too low (1DC DTC)
- P20E9:00 - Urea pump pressure too high (1DC DTC)

DTC P2BAF:00 and/or P1640:00 may be stored in PCM memory

- P2BAF:00 - NOx system driver inducement active
- P1640:00 - Powertrain DTCs available in dosing control unit

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Bleed the air from the urea tank according to the following steps:

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1) Drive the vehicle and apply the brakes (as shown in the table below), or harder so that the air bubbles in the urea pump move to the rear side of the urea tank.

Speed	Deceleration to stop	
	mph (km/h)	sec.
15 (10)	1.1	10 (3.1)
30 (20)	2.2	19 (6.3)
45 (30)	3.4	30 (9.4)

2) Connect the Mazda Modular Diagnostic System (M-MDS) to the DLC-2.

3) After the vehicle is identified, select the following items from M-MDS.

- a. Select "Powertrain"
- b. Select "SCRCU"
- c. Select "SCR Function"
- d. Select "SCR First Filling"
- e. Select "SCR Pressure Preparation"
- f. Select "SCR Leak Detection Test"

NOTE: The test result should be within the following ranges.

- Before: 4400—8600 hPa
- After: 4400—8600 hPa

- If the test results are not within the ranges, this service bulletin does not apply to the subject vehicle. Inspect for leakage from the urea system according to the instructions on MGSS online: (EMISSION SYSTEM LOCATION INDEX [SKYACTIV-D 2.2]).

g. Select "SCR Emptying".

3. Verify that the SCR warning light in the instrument cluster is not on.

4. Perform compulsory diesel particulate filter regeneration according to the instructions on MGSS online: (COMPULSORY DIESEL PARTICULATE FILTER REGENERATION [SKYACTIV-D 2.2]).

- If the concern does not recur, the repair is completed.
- If the concern recurs, this service bulletin does not apply to the subject vehicle. Diagnose according to the appropriate troubleshooting section on MGSS online.

WARRANTY INFORMATION

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NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's Calif. Emission Specific Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Symptom Code	6X
Damage Code	95
Causal Part No.	SH9P-20-2G0A (Urea tank assembly)
Quantity	0
Operation No. and Labor Hours	XXR7JXAX / 0.5 Hrs.

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