

## SERVICE INSTRUCTIONS

REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

FSA TYPE: Customer Notification

### Introduction

SCR system urea pumps fail due to the weather conditions in Russia. It has been determined that the error is caused by the crack in the internal pressure sensor. The relevant replacement instruction has been prepared for the use of parts with a new type of pressure sensor by replacing parts with old pressure sensors.

### **Labour:**

Labour	Labour Name	Duration
25C113 Q	Replacement of SCR Module (FSA202123)	0,75

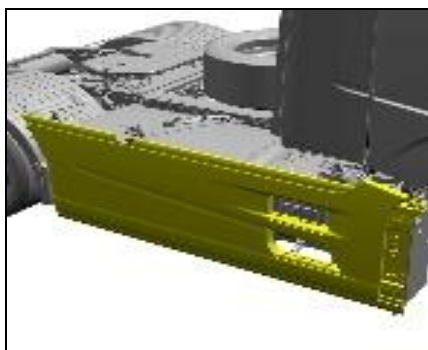
### **Parts:**

Part Number	Part Description	Usage
GC46-5H297-RA	MODULE ASSEMBLY EXHAUST AFTER TREATMENT SYSTEM	1

**Note:** Orders were placed from the central office for part/stock management. Parts are expected to be in Russia on 31.01.2022.

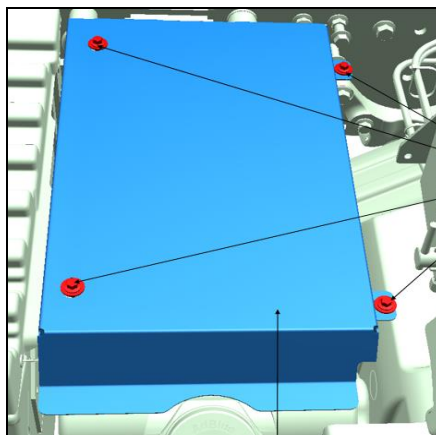
### Service Application

1 – If equipped, remove the side skirt. (See "Side Skirt Replacement" manual.)



Picture-1

2 – If there is a top protection cover in the vehicle, the relevant cover will be removed together with its four bolts.



Picture-2

## SERVICE INSTRUCTIONS

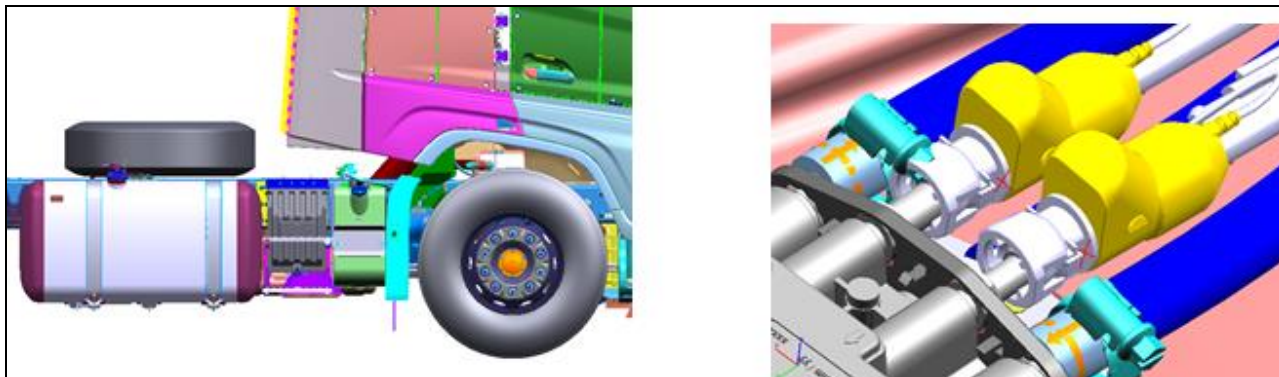
REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

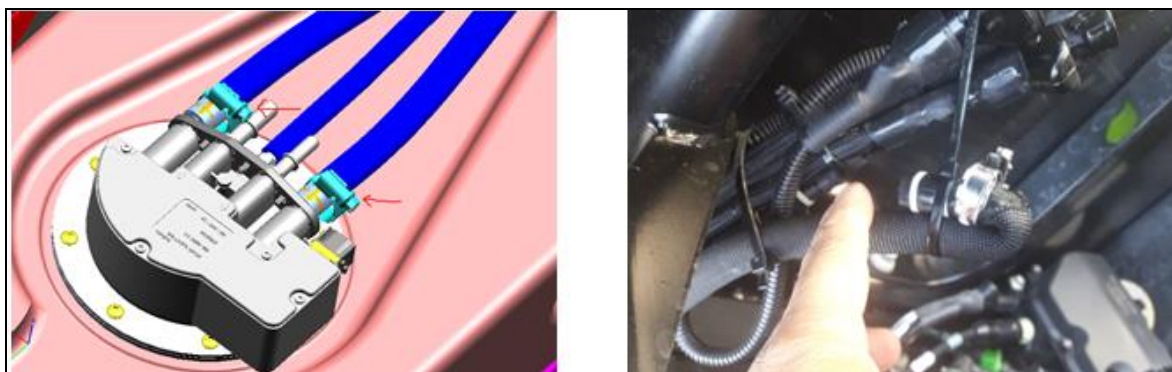
FSA TYPE: Customer Notification

3 – Squeeze the urea line inlet and outlet connectors on the float from the tabs on both sides marked in the picture and pull it towards the float in the opposite direction. Some urea leakage is normal.



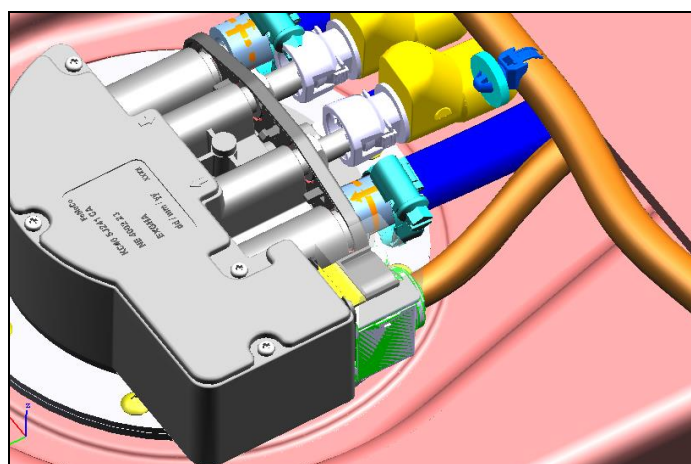
Picture-3

4 – Loosen the clamps of the water line inlet and outlet hoses on the float and remove the water hoses. After this step, please bend the cooling line quickly to prevent cooling water leakage. It should be blinded by tightening it with straps.



Picture-4

5 – Pull the yellow clip of urea float upwards from its tabs in the direction of the arrow and the electrical connector in the direction of the arrow should be disconnected from the float. The hose connections should be disconnected for water heated urea lines given as **Figure A**.



Picture-5

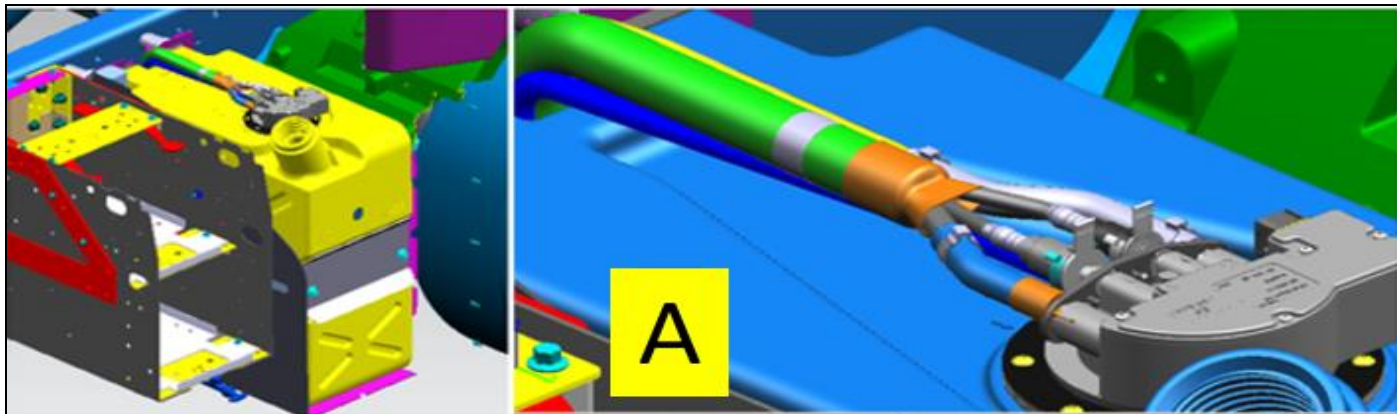
## SERVICE INSTRUCTIONS

REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

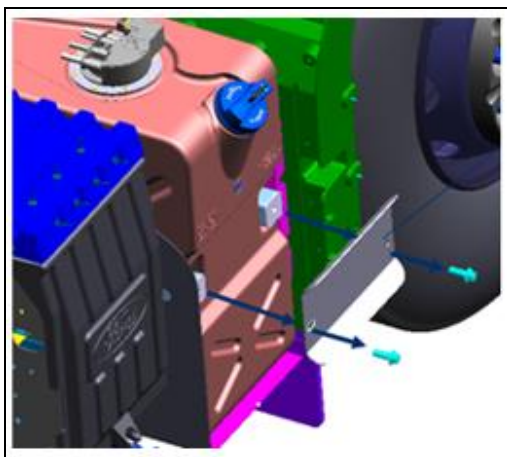
FSA TYPE: Customer Notification



Picture-6

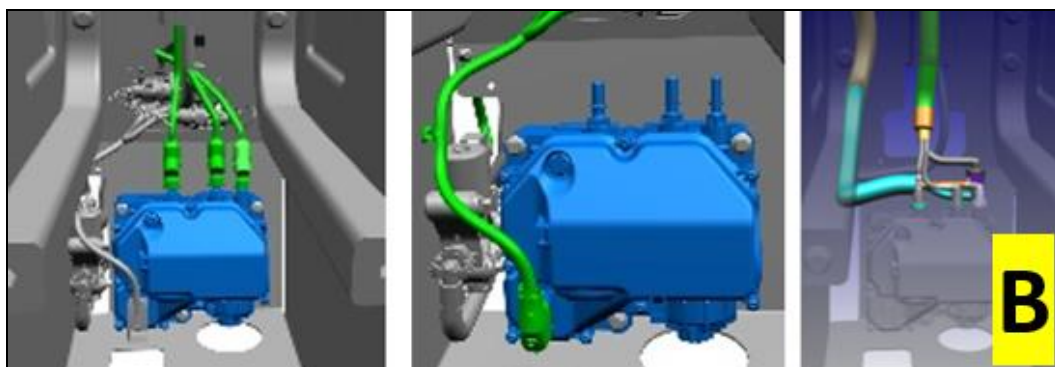
6 – Hose and Wiring Harness should be kept away from the movement area of the tank to avoid damage during disassembly operations.

7 – The SCR tank must be dismantled. The tank cap bolts must be removed with an M12 screw die to disassemble the tank. Afterwards, the tank should be placed on a safe place.



Picture-7

8 – The three urea hose connections on the SCR pump must be disconnected. Hose/connector pairings should be noted to prevent incorrect assembly after operation. The electrical connector of the pump must be disconnected given as below. **Figure B** shows the pump connections on vehicles with water-heated urea lines. If there is a water heated system in the vehicle, the connections should be as given.



Picture-8

## SERVICE INSTRUCTIONS

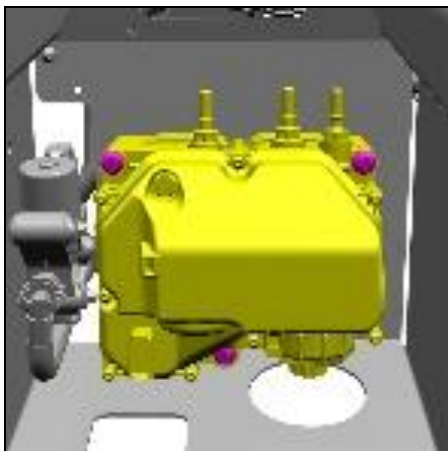
REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

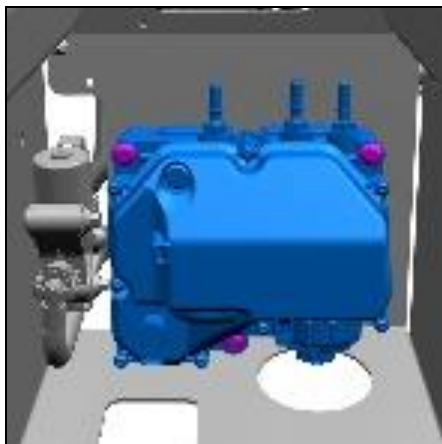
FSA TYPE: Customer Notification

9 – The urea pump must be removed from 3 M8 bolts.



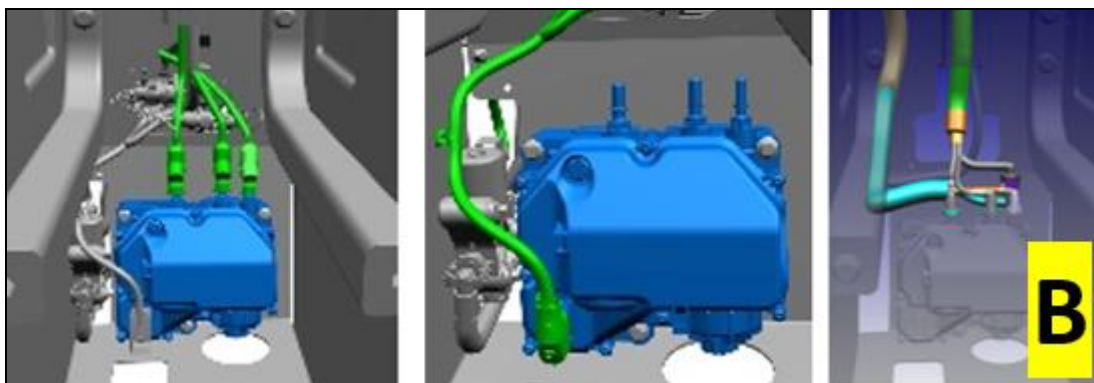
Picture-9

10 – The urea pump should be removed and replaced with a new part numbered “GC46 5H297 RA”. When installing the new part, 3 x M8 bolts must be tightened to 19Nm torque.



Picture-10

11 – The urea hoses and electrical connection of the SCR pump must be reconnected. It should be ensured that the urea hose connections are correct.



Picture-11



## SERVICE INSTRUCTIONS

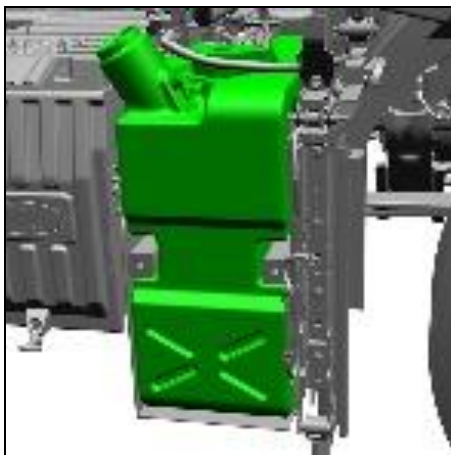
REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

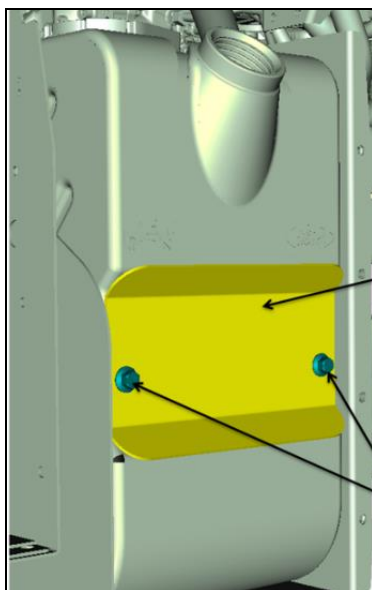
FSA TYPE: Customer Notification

12 – The SCR tank must be placed back in the cage. Make sure that the float, pump connections, urea hoses and ventilation hose are not stucked behind the cage.



Picture-12

13 – After the tank is placed, the SCR cage front cover should be installed as in the image. Torque value is 80 Nm.



Picture-13

14 – While making the float connections, the electrical connector must be connected first to the float. Afterwards, it should be checked that o-rings are not rotated inside by visually looking into the connectors. Urea inlet and outlet hoses should be installed correctly as in the first disassembled position and make sure that the quickfit is seated correctly. The water inlet and outlet hoses should be correctly installed to the float as in the first position and the clamp should be tightened to 3.2 Nm. It should be ensured that the ventilation hose is not stucked and it should be ensured that it passes through the middle as in the first position. When the operations are completed, the straps should be placed correctly as in the first case.

## SERVICE INSTRUCTIONS

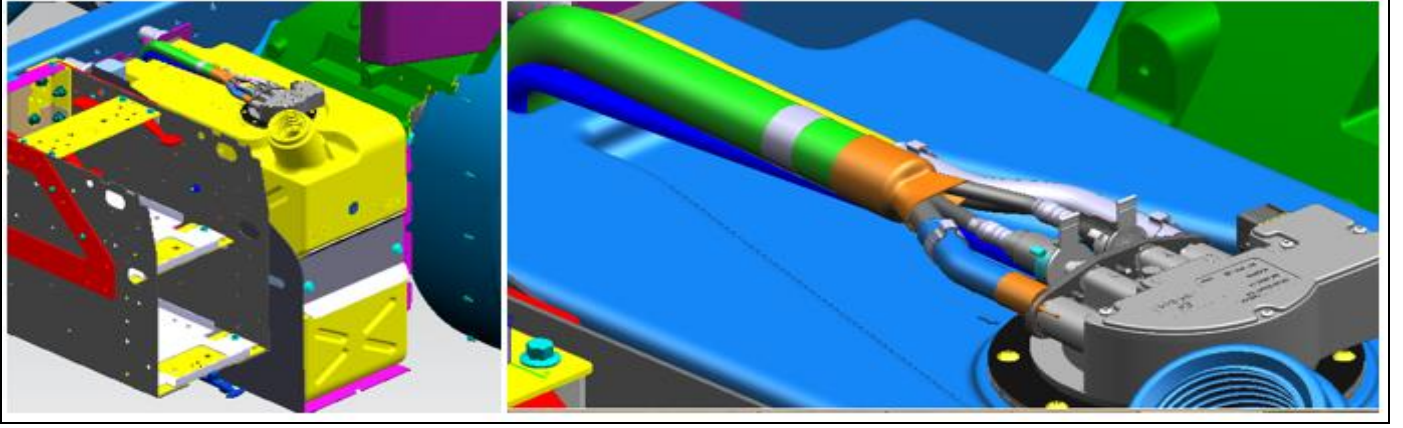
REFERENCE: FSA202123

DATE: 19.01.2022

SUBJECT: Replacement of SCR Module

FSA TYPE: Customer Notification

15 – If the vehicle has water heated system, the float connections should be made in the following order as in the first position.



Picture-14

**Note:** In order to avoid corrosion problems caused by water inlet to the electrical connector of the float, first water, then urea, and then electrical connection must be disconnected. In the reassembly process, first electricity, then urea, and finally water hose connections should be made.

Ford Trucks Service Engineering

Ford Otosan A.Ş