

## STAR ONLINE PUBLICATION

**Case Number:** S2014000001

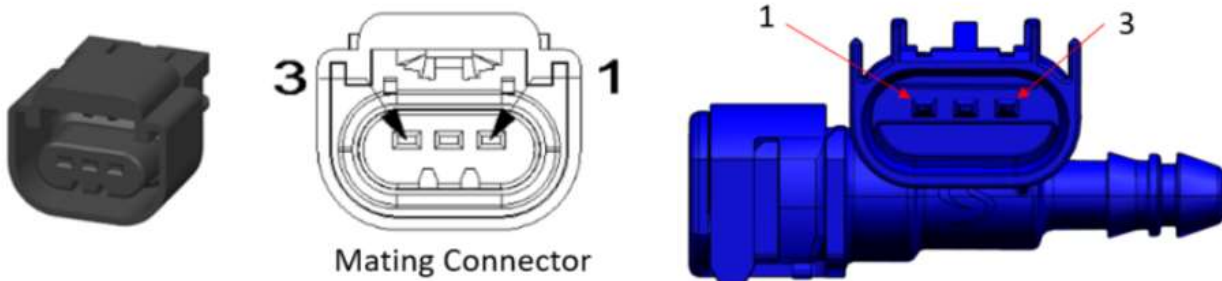
**Release Date:** 08/01/2020

**Symptom/Vehicle Issue:** When replacing the fuel line on a 2017-2018 RU 3.6L engine, it will be necessary to install a new fuel pressure sensor connector on to the vehicle harness. Follow the instructions below (or the I-sheet included with the part) when installing the connector repair kit. Improper wiring of the replacement connector can result in DTC P018D-Fuel Pressure Sensor High setting in the PCM.

**Discussion:** Instructions for proper wiring of the replacement fuel pressure sensor connector utilizing connector repair kit 68137864AC & Fuel Line 68421782AA.

### Old Vehicle Sensor Pinout

|                          | Cavity | Circuit                                    | Terminal Plating | Pin Option Comments (Device Optional Pin only) |
|--------------------------|--------|--|------------------|--|
| <input type="checkbox"/> | 1      | K181 - ENG - FUEL PRESS SNSR TO PCM        | Tin              | 501  |
| <input type="checkbox"/> | 2      | K914 - ENG - ENGINE CONT COMMON SNSR RTN 2 | Tin              | 501  |
| <input type="checkbox"/> | 3      | K850 - ENG - 5V SNSR TERTIARY FEED         | Tin              | 501  |



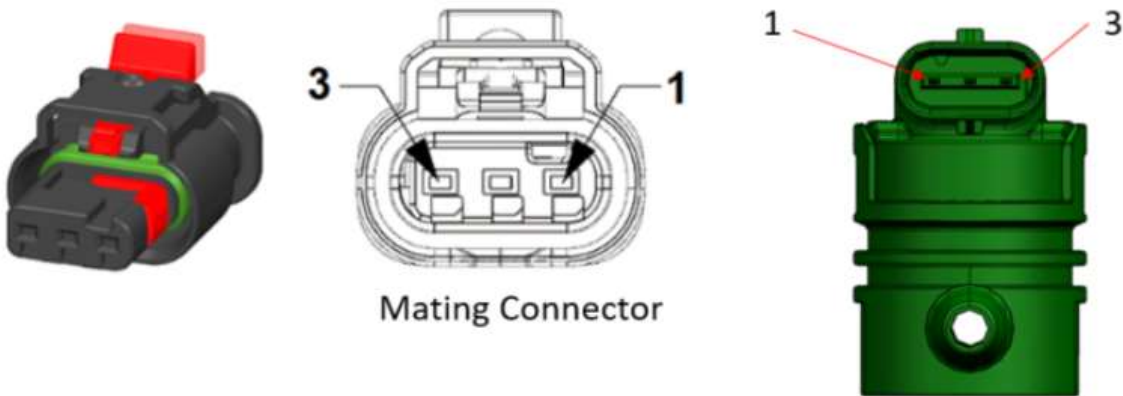
This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

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## New Sensor Pinout Configuration

|                          | Cavity | Terminal                                   | Terminal Plating | Pin Option Comments (Device Optional Pin only) |
|--------------------------|--------|--|------------------|--|
| <input type="checkbox"/> | 1      | K859 - ENG - 5V SNSR TERTIARY FEED         | Tin              | 501  |
| <input type="checkbox"/> | 2      | K181 - ENG - FUEL PRESS SNSR TO PCM        | Tin              | 501  |
| <input type="checkbox"/> | 3      | K914 - ENG - ENGINE CONT COMMON SNSR RTN 2 | Tin              | 501  |



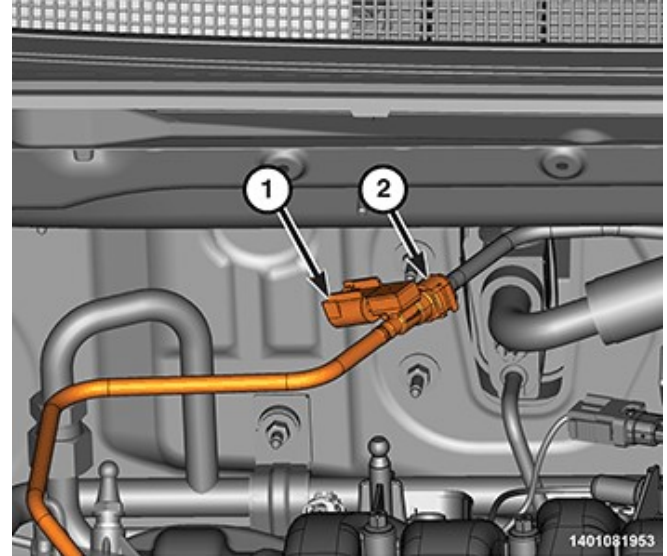
1. Perform the Fuel System Pressure Release procedure ([Refer to 14 - Fuel System/Fuel Delivery/Standard Procedure](#)).
2. Disconnect and isolate the negative battery cable.
3. Remove the engine cover ([Refer to 09 - Engine/COVER, Engine/Removal and Installation](#)).

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4. Disconnect the Fuel Rail Pressure Sensor (FRPS) wire harness connector (1).
5. Disconnect the fuel supply line (2) at the FRPS ([Refer to 14 - Fuel System/Fuel Delivery/FITTING, Quick Connect/Standard Procedure.](#))
6. Locate the fuel sensor wiring takeout and cut off the existing connector.



7. Take circuit K181 from cavity 1 in the vehicle harness and splice it into cavity 2 wire on the new connector using the corporate splicing procedure, making sure the final length of the wires is the same length as the original harness.
8. Take circuit K914 from cavity 2 in the vehicle harness and splice it into cavity 3 wire on the new connector using the corporate splicing procedure, making sure the final length of the wires is the same length as the original harness.
9. Take circuit K859 from cavity 3 in the vehicle harness and splice it into cavity 1 wire on the new connector using the corporate splicing procedure, making sure the final length of the wires is the same length as the original harness.
10. Connect the fuel supply hose to the fuel rail (1) ([Refer to 14 - Fuel System/Fuel Delivery/FITTING, Quick Connect - Standard Procedure.](#))

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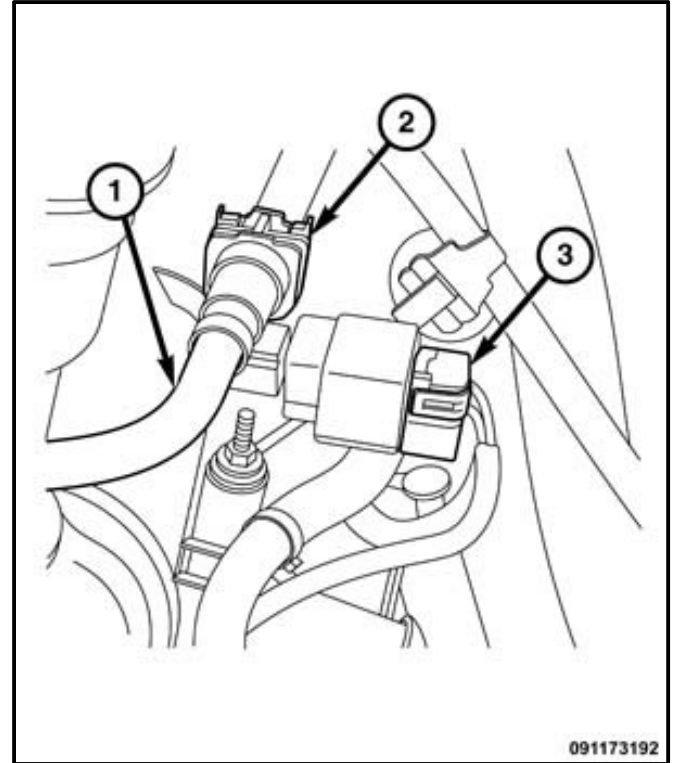
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11. Install the fuel tank supply line (2) at the Fuel Rail Pressure Sensor (FRPS) ([Refer to 14 - Fuel System/Fuel Delivery/FITTING, Quick Connect - Standard Procedure](#)).

12. Connect the FRPS electrical connector (3).

13. Connect the negative battery cable.

14. Start the engine and check for leaks.



15. Install the engine cover ([Refer to 09 - Engine/COVER, Engine/Removal and Installation](#)).

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