



# Technical Service Bulletin

SUBJECT:		No: <b>TSB-19-13-001</b>	
<b>CORRECTION TO FUEL INJECTION (HIGH PRESSURE) ASSEMBLY INSTALLATION - SERVICE MANUAL REVISION</b>		DATE: <b>February 2019</b>	
		MODEL: <b>2018 Eclipse Cross</b>	
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB updates the Direct Fuel Injection and Multiport Fuel Injection (DFI and MFI) section of the affected Service Manuals to correct the Fuel Rail and Fuel Injector (High Pressure) removal and installation procedure.

## AFFECTED VEHICLES

- 2018 Eclipse Cross

## AFFECTED SERVICE MANUAL

- 2018 Eclipse Cross Service Manual, Group 13A - Direct Fuel Injection & Multiport Fuel Injection (DFI & MFI)



Please make the indicated changes to the 2018 Eclipse Cross Service Manual, Group 13A - Direct Fuel Injection & Multiport Fuel Injection (DFI & MFI) -> Fuel Injector (High Pressure) -> Removal and Installation.

## INJECTOR (HIGH PRESSURE)

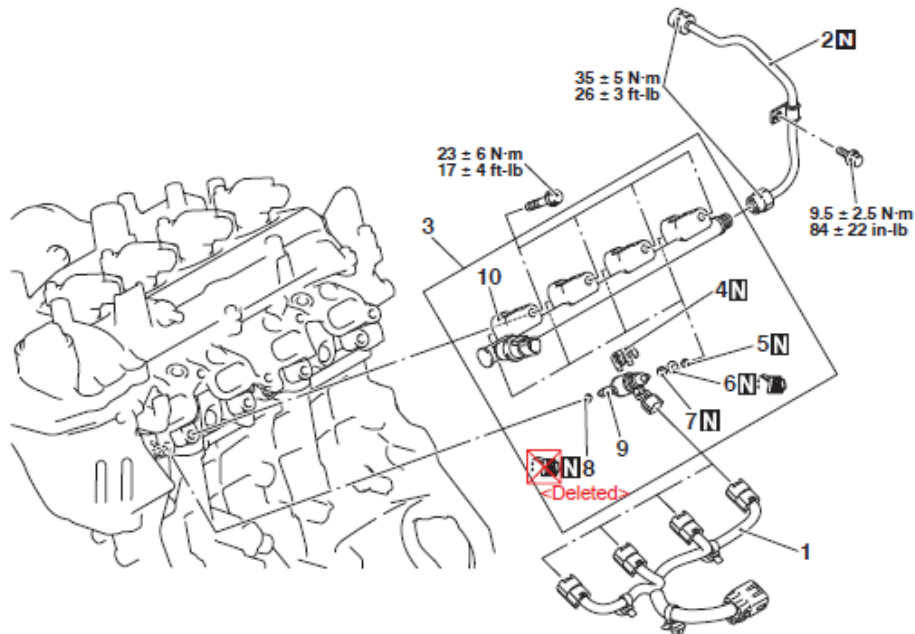
### REMOVAL AND INSTALLATION

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#### CAUTION

- Do not install nor remove the fuel rail and fuel injector assembly (high pressure) while holding the fuel pressure sensor.
- When the fuel injector (high pressure) is replaced, initialize the learned value using scan tool (M.U.T.-III/SE) (Refer to GROUP 00 – Precautions before Service, Initialization procedure for learning value in DFI and MFI engine).

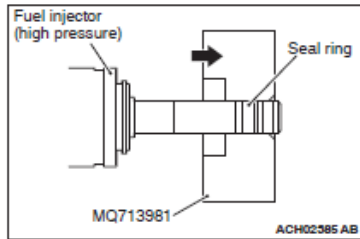
Pre-removal operation	Post-installation operation
<ul style="list-style-type: none"> <li>Engine Cover Removal (Refer to GROUP 11A – Engine Cover).</li> <li>Fuel Line Pressure Reduction (Refer to GROUP 13A – Fuel Pump Connector Disconnection).</li> <li>Charge Air Cooler Intake Hose A Removal (Refer to GROUP 15 – Charge Air Cooler).</li> <li>Fuel Rail and Fuel Injector Assembly Removal (Refer to GROUP 13A – Injector).</li> <li>Intake Manifold Removal (Refer to GROUP 15 – Intake manifold).</li> </ul>	<ul style="list-style-type: none"> <li>Intake Manifold Installation (Refer to GROUP 15 – Intake Manifold).</li> <li>Fuel Rail and Fuel Injector Assembly Installation (Refer to GROUP 13A – Injector).</li> <li>Charge Air Cooler Intake Hose A Installation (Refer to GROUP 15 – Charge Air Cooler).</li> <li>Fuel Leak Check.</li> <li>Engine Cover Installation (Refer to GROUP 11A – Engine Cover).</li> </ul>



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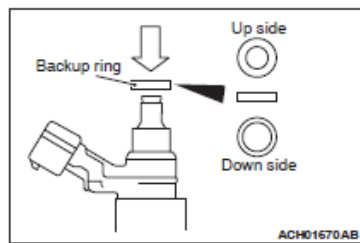
- Removal steps**
- Control wiring harness connection
  - Fuel delivery intermediate pipe

- Removal steps (Continued)**
- Fuel rail and fuel injector assembly (high pressure)
  - Injector support
  - Ring stopper



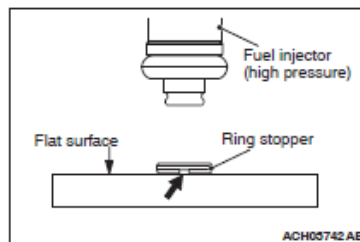
5. Move the special tool injector seal drift (MQ713981) in the direction of the drawing so that the seal ring will fit into the groove.
6. Hold it for over 30 seconds to fit the seal ring.

>>B<< BACKUP RING INSTALLATION



Install the backup ring with the wider side facing upward to the fuel injector (high pressure).

>>C<< RING STOPPER INSTALLATION

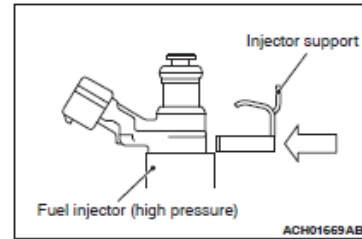


1. As shown in the Fig., put a link stopper on a flat surface.
2. Pushing the fuel injector (high pressure), install the ring stopper.

<Correct>

1. Confirming that the injector support and Fuel delivery pipe (high pressure) are in the positions shown in the figure.
  - 1-1. When installing the Fuel injector (High pressure) assembly, apply engine oil to the seal ring.

>>D<< INJECTION SUPPORT INSTALLATION

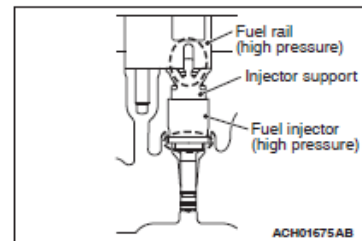


Install the Injector support to the fuel injector (high pressure) as shown in the figure.

>>E<< FUEL RAIL AND FUEL INJECTOR (HIGH PRESSURE) ASSEMBLY INSTALLATION

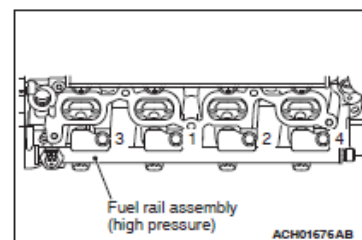
**CAUTION**

- Never hold the fuel pressure sensor during the installation. If adding loads to the fuel pressure sensor, it may cause the trouble.
- Replace the seal ring when the seal ring is damaged during installation.
- When an O-ring is damaged during installation, replace the O-ring and ring stopper.



<Incorrect>

1. After confirming that the injector support and fuel rail (high pressure) are in the positions shown in the figure, install them to the cylinder head.



2. Tighten bolts 1 and 2 shown in the figure alternately by one rotation at a time to the specified torque.