

7-306 and 7-307

DeatschWerks 2021+ F-150 5.0 Coyote Fuel Rail Installation Guide



Included Parts:

- 2021+ F-150 5.0 Coyote Fuel Rails (x2)
- 8AN ORB Plug (x2)
- Mounting Rail Spacers (x4)
- Rail to Intake Mounting Bolts (x4)
- 1/8" NPT x 3/8" EFI Fitting (x1)
- 1/8" NPT Male x 1/8" NPT Female 90-degree Fitting (x1)
- OE Fuel Pressure Sensor Adapter (x1)
- 1/8" NPT Plug (x2)
- Crossover Hose (PN# 7-307 only) (x1)
- Crossover Fittings 8ORB x 8AN (PN# 7-307 only) (x2)

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PLEASE READ: This guide is intended to aid in the installation of our products. It is recommended that factory manuals or instructions are followed to remove the fuel rail assembly from the vehicle. Instructions in this guide are generic and are intended to aid in the installation of the DW 21+ F-150 fuel rails. The factory manual should supersede any contradiction.

Note: 2021+ F-150 5.0L model applications will require additional fittings to connect to the factory feed line to run the factory return less style fuel system. Vehicles running return style fuel systems will require the installation of an aftermarket fuel pressure regulator and additional fittings to function correctly.

(See DeatschWerks PN# 6-1000-FRB)

Mounting Rail to Manifold

1. Pre-install the fuel injectors into the fuel rails. If using aftermarket injectors with adapter harnesses (ex. DW part# 16MX-23-1200-8) pre-install the adapter harnesses onto the fuel injectors. (Pictures Below)



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2. Place the (4) rail spacers onto the OE manifold spacers shown (red arrows). Passenger side shown for display. (Picture Below)



3. Install the fuel rails onto the manifold. Align the Injectors into the ports. Install the (4) mounting bolts then fully tighten the (4) bolts. (Pictures below)



4. Once the rails are fully mounted. Fully install the 90-degree fitting into the 1/8" NPT port on the passenger side rail (red arrow). Fully install the 1/8" NPT to 3/8" EFI fitting into the 90-degree fitting. Align the fitting in approximately a 45-degree angle. (Picture below)



5. Fully connect the OE fuel line from the high-pressure fuel pump to the EFI fitting. (Picture below)



6. (PN# 7-307 ONLY) Install the crossover hose and fittings on the backside of the intake manifold.

For additional technical support please contact us at: TechSupport@Deatschwerks.com or 405.233.3991