

16U-LS-0550-8, 16U-LS-0700-8,
16U-LS-1000-8, 16M-LS-1500-8,
and 16S-LS-2200-8

DeatschWerks LS Injector Kit Installation Guide



Included Parts:

- (8) Injector Wiring Harness
- (8) Tall Upper Injector Adapters
- (8) Short Upper Injector Adapters
- (8) Injector Adapter Retaining Clips
- (4) Rail Spacers
- (8) Fuel Injectors
- (8) 15.5mm Lower O-rings (Orange)
- (8) 14.5mm Lower O-rings (Black)
- Packet of Lube

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 LS Injector Kit. The factory manuals should supersede any contradiction.

Note: This is a UNIVERSAL KIT. Recommend using the best combination of parts from this kit to fit in LS applications. The Items included will work with any OE rail and manifold equipped on the LS engine platform. This kit may not work with some aftermarket rails and manifolds. Utilization of aftermarket rails and manifolds when using this kit will be at the end user's discretion. Tuning the ECU is required when changing fuel injectors. See <https://deatschwerks.com/pages/injector-tuning-data> for all DW Injector Tuning Data.



Determining What Parts to Use

1. Measure the OEM injectors if available. Measure O-ring to O-ring height as shown below or refer to OE manufacturers injector height.

Note: Many LS platforms do not require using any of the supplied adapters to adjust the height. Common examples are the LSA and LS3 engines. We call these “Short” Height Injectors.



- 2A. Installing the Short Upper Adapters. Follow the next few steps below in order.

Note: Short Upper Adapters will give you the extension needed for your injectors to be considered a “Mid” Height Injector. Common LS applications are most Trucks and the LS2.



2B. Apply a small amount of lube to the upper O-rings.

Note: Utilization of the supplied lube is essential on any O-ring to prevent rips, tears or rolling.



2C. Install the Short Adapters onto the tops of all your injectors as shown.



2D. Install the retaining clips. Slide them onto the injectors. There is a small channel on the injector that the lower portion of the clips slide into. Fully installed onto the injectors looks like the photo below.



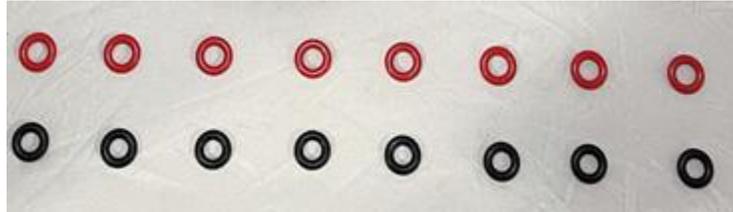
3. To install the Tall Upper Adapters, follow steps 2B through 2D using the Tall Adapters.

Note: The Tall Upper Adapters will give your injectors the extension needed to be “Tall” Height Injectors. Common LS applications are the LS1 and LS6.



4. Selecting which Lower O-rings to use. The Orange O-rings are slightly larger in outside diameter. The Black Lower O-rings will be slightly smaller in outside diameter. Choose the best fitting option for your manifold ports. The Orange O-rings will be commonly used on the LSA and LS3 applications. The Black O-rings will be commonly used on most other applications.

Note: Utilization of the supplied lube is essential on any O-ring to prevent rips, tears or rolling.



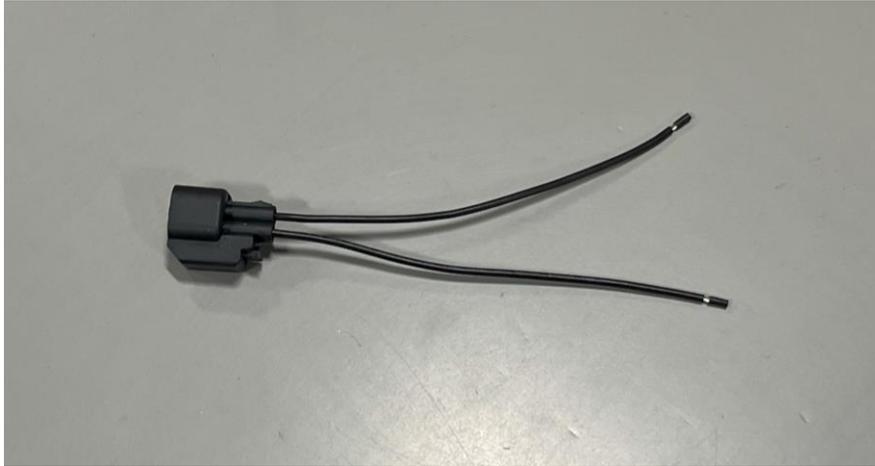
5. When using the “Mid” height Injectors in most non-Flex Fuel Truck engines like the LM7, LQ9, L92 and others will require the (4) supplied Rail Spacers to be used. The rail spacers will go between the rail and the manifold on the attachment points shown (red arrows).



Factory LM7, LQ9, L92 Truck Injector examples next to the “Mid” height Injector from this kit.



6. Some applications will not need to use the Electrical Harness Adapters. Those that do have to use these can use simple Butt-Connectors, Soldering or splicing them to their engine harness.



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