



## FULL FUNCTION ENGINEERING

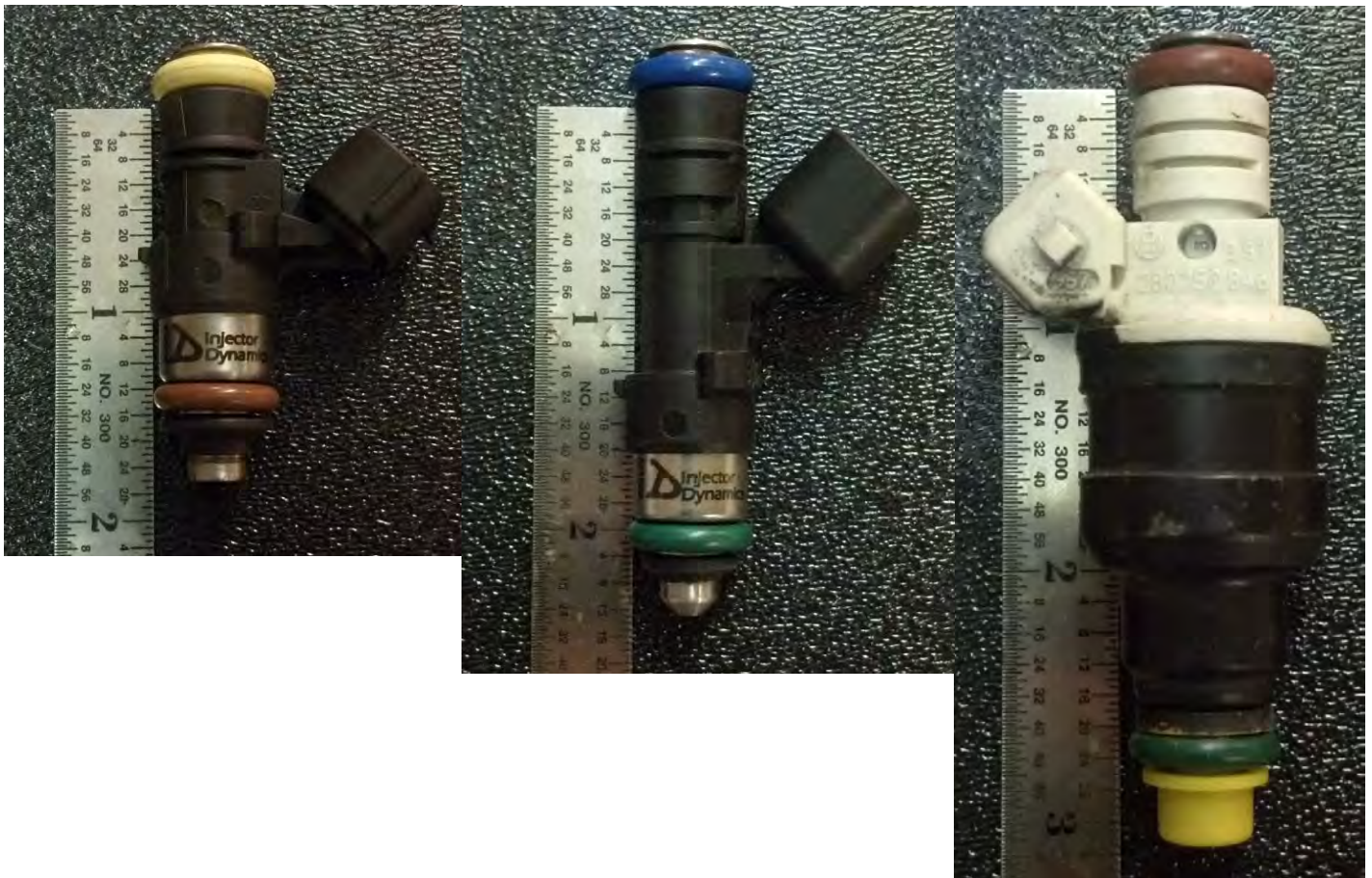
### Injector Fitment Guide

#### What size are my injectors?

Typically injectors come in three sizes; 34, 48 and 60mm.

These measurements are taken from the top of the lower O-ring to the bottom of the upper O-ring.

Pictured below are three common injector types/sizes; (L to R) ID850/1300/2000 (34mm), ID725/1000 (48mm), EV1 Bosch 1680 (60mm).



## Will my current injectors fit your lower o-ringed sleeves?

Yes, the majority of injectors will fit, however some may need small modification to fit properly.

Shown below are the steps for proper modification and install of the FFE lower o-ringed sleeves.

The standard o-ring is 14mm while the smaller double o-rings pictured are 2x8mm.

### **ID725/1000 style**

(48mm EV14 with small lower plastic)

1. Remove the lower O-ring by sliding over the lower plastic retainer.
2. Install two 12mm O-rings that were supplied with your sleeves.
3. Lightly lubricate the two lower O-rings.
4. Apply light pressure to the sleeve while twisting it on.
5. Lightly lubricate the sleeve/O-ring before installing.
6. Sleeves will require some downward force to install but should NOT require hammering.



## **ID850/1300/2000 style**

(34mm EV14 with large lower plastic)

1. Remove the lower O-ring by sliding over the lower plastic retainer (may require a scribe).
2. Using small flush cutting pliers, carefully begin clipping lower plastic as far inward as possible.
3. While clipping, pull the clippers away from the injector as to pull the plastic off the end of the tip.
4. Once all of the plastic is removed, ensure there are no metal burrs left which could puncture O-rings.
5. Install two 12mm O-rings that were supplied with your sleeves.
6. Lightly lube the two lower O-rings.
7. Apply light pressure to the sleeve while twisting it on.
8. Lightly lubricate the sleeve/O-ring before installing
9. Sleeves will require some downward force to install but should NOT require hammering.



## How Do I Change the Length of My Injectors?

- If you require changing the length of your injector for rail fitment, it can be very simple by installing/removing the “top hat” adapters.
- When installing the short top hats, the height changes from 34 to 48mm or 48 to 60mm.
- When installing the tall top hats on 34mm injectors, the height changes from 34 to 60mm.



## **I Want to Purchase a FFE Rail, What Fitment Options Are Available?**

FFE rails are typically designed around 48mm injectors unless physical limitations dictate otherwise.  
(Emissions equipment, etc)

This is just general guide; please see your engine specific rail fitment guide for further details.

### **13B-REW**

#### ***Primary***

34mm – Purple sleeve  
48mm – Blue sleeve  
60mm - No fitment (Clearance)

#### ***Secondary***

34/48/60mm – Blue sleeve

### **13B-RE**

#### ***Primary***

34mm – Purple sleeve  
48mm – Blue sleeve  
60mm – Blue sleeve

#### ***Secondary***

34mm – Tall top hat, Blue sleeve  
48mm – Short top hat, Blue sleeve  
60mm – Blue sleeve

### **13B-T**

#### ***Primary***

34mm – Purple sleeve  
48mm – Purple sleeve  
60mm – Purple sleeve

#### ***Secondary***

34mm – Short top hat, purple sleeve  
48mm – Purple sleeve  
60mm – Purple sleeve

## **Do I Need To Remove My Diffusers?**

We recommend removing the diffusers when running Injector Dynamics injectors for two reasons;

1. With proper injector offset data (supplied by ID) there is no adverse effect on drivability.
2. The diffusers are generally old/brittle and can break causing engine damage.

If you absolutely cannot remove the diffusers please contact us for proper fitment.