



# LS3 TWIN INJECTOR INTAKE MANIFOLD INSTALLATION INSTRUCTIONS

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## Parts supplied

- 1 x billet manifold
- 2 x fuel rails
- 1 x valley plate
- 1 x throttle body adaptor
- 1 x bag of assorted O-rings and bolts

## Procedure

1. Place 8 x O-rings in grooves and attach runners to plenum.
2. Tighten runners to plenum using **M6 x 12** bolts using a **Loctite-style** compound on the threads. All M6 bolts in this assembly should be tightened to 12ft/lb torque.
3. Place long O-ring in top of plenum, plus 4 x **8mm dowel pins** for location, then add plenum lid.
4. Tighten lid to plenum using **M6 x 20** bolts using **Loctite-style** compound on the threads.
5. Attach valley plate to engine using factory O-ring seal plate and M8 x 25 button head bolts and flat washers. The breather hole is tapped M14 x 1.5. A blockoff plug is supplied. If required for use, you must run a banjo style fitting in that hole.
6. Use 8 x O-rings on head flanges and attach manifold to engine. M6 x 35 bolts and washers are supplied for fitment between the manifold and the engine if you wish to use them.
7. Attach the fuel rail legs to the manifold by screwing the studded end into the threaded holes. Attach the fuel rail mounts to the legs using the **M8 x 20 bolts**. **The fuel rail legs are designed to a full length injector. Injector spacers must be used if running a shorter injector.**
8. Locate the fuel rails on the locating tabs in the rail mounts and attach them to the mounting legs using **M8 x 20** bolts and flat washers. The threads in the end of the fuel rails are -10AN.
9. Add orings to the throttle body adaptor. If running the **Plazmaman 102mm throttle body**, use the supplied M6 x 45 bolts. If using the **LS DBW (90mm or 102mm)**, use the supplied M6 x 65 bolts and flat washers.
10. Due to a vast range of different casting tolerances from factory, we cannot guarantee an exact alignment between the intake manifold and the standard cast intake ports on the cylinder head. We have measured various sets of factory cylinder heads and machined our ports to an average round size. We recommend port matching both items together to achieve maximum efficiency if required.