



# LT1/LT4 BILLET INTAKE MANIFOLD INSTALLATION INSTRUCTIONS

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## Parts supplied

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

## Procedure

1. Place 8 x internal 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 16ft/lb torque.
3. Place long O-ring in top of plenum, plus 4 x **M8 x 20mm dowel pins** for location. A thin layer of silicone is required on the top face of the plenum body between the top o-ring and the front o-ring.
4. Add plenum lid. The o-ring should be protruding out the front of the body approximately evenly on both sides.
5. Using **M6 x 20** bolts in the front 10 holes, **M6 x 12 button head** in the rear 6 holes, tighten the lid to the plenum using a **Loctite-style** compound on the threads. Once the lid is tight, trim the leftover ends of the o-ring flush to the plenum body, and place a small dab of silicone to seal the o-ring.
6. **\*\*\*NOTE: IF RUNNING THE "TALL LID" OPTION, THERE ARE NO BUTTON HEAD BOLTS REQUIRED. USE M6 X 20 BOLTS IN ALL TOP BOLT HOLES\*\*\***
7. Use 8 x head flange O-rings on head flanges and attach manifold to engine. M6 x 35 bolts and flat washers are supplied to attach the manifold to the cylinder heads if you wish to use them.
8. Attach the fuel rail legs and stands to the manifold using the **M8 x 55** bolts and **M8 x 30** bolts supplied. One mounting land is higher than the other. Use the 1-piece mount and 30mm bolt on that land. The fuel rail legs are designed to suit a half length 14mm injector.
9. Attach fuel rails to the mounting legs using **M8 x 16** bolts and flat washers. The engraving on the fuel rails should be facing outwards. The threads in the end of the fuel rails are -8AN.
10. Place large o-ring in front face groove, then add throttle body adaptor plate to the plenum body using the **M8 x 16mm dowel pins**. If running the **Plazmaman 102mm throttle body**, use the supplied M6 x 60 bolts and spring washers. If using the **DBW 90mm throttle**, use the supplied M6 x 80 bolts and flat washers.
11. Due to factory tolerances, we cannot guarantee an exact alignment between the intake manifold and the standard intake ports on the cylinder head. We have measured various sets of factory cylinder heads, and machined our ports to an average size. We recommend port matching both items together to achieve maximum efficiency if required.