

I-M SHIELD™ KIT



Product Installation Sheet

Required Equipment

- Scissors or utility knife
- Dust Mask
- Safety Glasses
- Gloves
- Pre-paint

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Installation Tips

Intake manifold surface temperature should be at least 65°F when applying, sticking onto anything colder may not allow adhesive to set up properly.

Clean intake manifold of any grease and dirt before applying I-M Shield. It is also a good idea to use isopropyl alcohol or a pre-paint cleaner before installing the I-M Shield.

I-M Shields are electrically conductive, make sure they do not come in contact with any terminals or open circuits

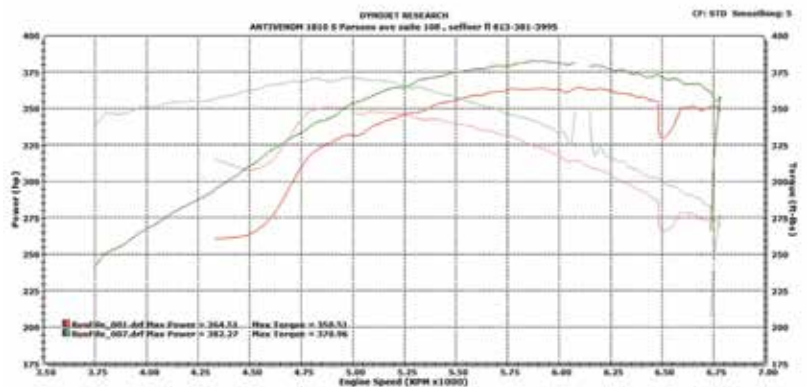
For all application specific pre-cut shields Pre-fit I-M Shield on manifold. Even though I-M Shield is pre-cut, you may find it necessary to trim in some cases. You can easily do so with scissors or utility knife.

For the I-M Shield Kit: Make a template with paper. It is easier and less expensive to make a mistake with a piece of paper than it is to buy another I-M Shield kit.

Overview

I-M Shield™ significantly reduces the amount of heat transfer from the top of the engine to the intake manifold, helping to reduce air-intake temperatures and increase horsepower. Lower air-intake manifold temperatures create a denser air/fuel mixture, creating more power. Heavy-duty adhesive will stick to any clean, semi-smooth surface. I-M Shield™ is available pre-cut for certain applications and in a universal kit that may be trimmed for a custom fit. Think of I-M Shield™ as an intercooler for your intake manifold, reducing the temperature of the air/fuel inlet charge for higher density and more power.

2000 C5 Corvette - with cold-air kit, Lingenfelter GT2-3 camshaft, LS6 intake, Kooks 1-7/8-inch diameter long-tube headers, aftermarket exhaust and performance tune by AntiVenom Performance. The LS1 baselined on the Dynojet chassis dyno at 364 horsepower and 350 lb-ft of torque.



After the I-M Shield was installed, the LS1 cranked out 382 horsepower and 370 lb-ft of torque. That's a gain of 18 and 20, respectively.

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Installation Steps

1. If you have part number 140004, start at step 2. For all other Pre-cut I-M Shields move to Step 5.
2. Measure the length and width of your intake manifold. Transfer these measurements to your paper. Cut out your paper template.
3. Place the paper template to the bottom of your intake manifold. Make sure you make accommodations for the cylinder heads and for the engine block. It is important to not covers these areas to ensure proper sealing of any gaskets.
4. After you have confirmed your template fits, carefully trace the template onto the I-M Shield Kit.
5. Intake manifold surface temperature should be at least 65°F when applying, sticking onto anything colder may not allow adhesive to set up properly.
6. Pre-fit the I-M Shield. Your shield is now trimmed to fit, but verify fitment with the shield. Just use a heavy duty pair of scissors or utility knife to make and changes at this time.
7. Degrease and clean surface of any residual chemicals, using carburetor spray or other cleaner/degreaser. We strongly recommend rubbing the surface with a pre-paint cleaner or isopropyl alcohol (or other non-residue cleaner) after cleaning and degreasing.
8. **IMPORTANT:** Carefully peel the adhesive backing off the I-M Shield™, do not peel more than 1/4" from the edge until you are sure the adhesive backing is not peeling off with the backing paper. We strongly recommend using a razor blade or utility knife to hold the corner of the adhesive to the KoolCore insulation while removing backing of the I-M Shield™.
9. Lay the I-M Shield by starting on one edge of the manifold and work out slowly, pressing firmly as you move on.
10. Before using edge tape, clean edge of I-M Shield and clean surface of manifold and wipe both with pre-paint cleaner. Apply tape as needed.
11. Pre-fit and trim edging tape to fit the I-M Shield.
12. It is important to do one edge/seam at a time with the edge tape.

