



# Trick Flow® Track Heat® Intake Manifold

## Small Block Mopar

Thank you for purchasing a "Trick Flow Track Heat" aluminum intake manifold that has been specially designed to perform on LA based Small Block Mopars!

Please follow the steps that are outlined within this instruction manual to ensure that the installation of your intake manifold is done correctly and that it perform according to its design.

Please read all of the enclosed information **before** beginning any work. If you have any questions or concerns regarding installation or written materials with your new heads, please contact the Trick Flow technical department at **1-330-630-1555** for assistance Monday through Friday between 9:00am and 5:00pm EST.

---

### **\*\*\*Important Information\*\*\***

1. This intake fits LA based engines and cylinder heads. It is designed to work in conjunction with Trick Flow's PowerPort 190 Small Block Mopar cylinder heads, but it will perform well on other heads as well. A Magnum based cylinder head will require a different bolt pattern that is not available with this intake manifold.
2. The carburetor flange and bolt pattern is designed to fit any 4150 style carburetor. If a 4500 series carburetor is desired, an adapter spacer will be required.
3. Be sure to use high quality bolts when mounting this intake to your cylinder heads. Some part numbers have been listed at the end of this document.

---

### **Project Overview**

- Review all paperwork included in the installation packet.
- Inspect the condition of all components.
- Verify that the part numbers and quantities of each product are correct. (See "Parts Checklist")
- Fill out and mail the warranty card to Trick Flow
- Gather tools from "Recommended Tools" section.
- Purchase any necessary additional parts. (See "Additional Parts Required.")
- Remove existing intake manifold.
- Install the new intake manifold.
- Make necessary tuning adjustments.
- Test drive and enjoy your new intake manifold!

### **Parts Checklist**

You should have received the parts listed below in your cylinder head package. Please verify the part numbers and quantities of each component received.

- (1) Intake Manifold
- (1) Instruction Packet

If you are missing an item or a part was received in error, please contact Trick Flow at **1-330-630-1555** Monday through Friday between 9:00am and 5:00pm EST.

### **Recommended Tools**

- Shop manual for your vehicle.
- Basic mechanics tool set.
- Torque Wrench – 3/8" or 1/4" drive torque wrench would work best.
- 3/8" Crowfoot (Such as Sunex SXT-9708)
- Calipers to measure thickness of old gasket

### **Additional Parts Required**

These components are a requirement to have in order to complete the installation of your new intake manifold. Please refer to the "Recommended Components" chart on the "Technical Specifications" sheet for specific part numbers.

- Intake Gaskets
- Intake Bolts
- RTV Sealant

## Installation Instructions

### 1) Old Intake Manifold Removal

- Consult your shop manual for the proper intake manifold removal procedure for your specific vehicle. As you perform disassembly, it is highly recommended to take notes, pictures, and videos. Doing this will greatly increase the ease of installing your new intake manifold.
- Be sure to thoroughly clean the intake mounting face on your cylinder heads. To be sure that your new intake does not leak, make sure there is no left over gasket material or sealer left on the surface.

**NOTE: Cover all intake ports on your cylinder heads as well as the lifter valley when cleaning the intake mounting surface on your heads.**

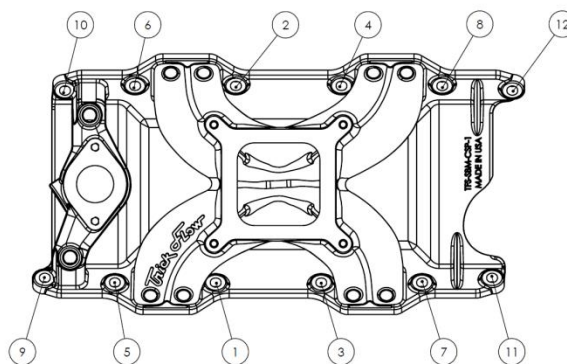
### 2) Test Fitment of New Intake

- Place your intake gaskets on the cylinder heads **without** using any RTV or sealant.
- Start all of the bolts by hand
- With a borescope or flashlight, check the transition between the intake runner on your manifold and the intake port on your cylinder head. If it appears that the ports do not line up, an intake gasket with a different thickness or port matching may be necessary.

### 3) Installing the Trick Flow® Intake Manifold

- Run a ¼" bead of Permatex Ultra Black RTV sealer along the end rails and a light layer of silicone around the water port openings on both sides of the gasket.
- Place your intake gaskets on the cylinder heads, making sure that the sealer on the end rails overlap all four corners of the intake gaskets where they intersect.
- Put your new Trick Flow intake on your heads and set it down evenly. Lightly coat your intake bolts with oil and put them in the proper holes, tightening by hand.
- Before going through the torque sequence, be sure to double check for proper fitment, mainly how well the ports are aligned.

- Torque the bolts in the sequence shown below.



#### **3/8"-16 Head Bolts/Studs**

Stage 1: 16 ft.-lbs.

Stage 2: 22 ft.-lbs.

Stage 3: 30 ft.-lbs.

### 4) Final Checks

- Double check your port alignment to make sure that you pulled the intake down evenly.
- After initial startup, but sure to check for any leaks.

### 5) Specifications

- A319 Cast Aluminum
- Stock/OEM Deck
- Single 4150 Carburetor
- Single Plane
- Manifold Height: 5.125"
- Basic RPM Range: 3500 to 7000 rpm
- Approximately 13.1 lbs machined

### 6) Recommended Parts

- Carburetor Spacer
  - TFS-2141501B
  - TFS-2141501C
- Intake Mounting Bolts
  - ARP-144-2001 (Black; Hex)
  - ARP-144-2101 (Black; 12 Point)
  - ARP-444-2001 (Polished; Hex)
  - ARP-444-2101 (Polished; 12 Point)
- Intake Gaskets
  - Fel-Pro 1213
- Trick Flow SBM Cylinder Heads
  - TFS-61417801-C00
  - TFS-61417802-C00
  - TFS-6141T784-C00
  - TFS-6141T783-C00
  - TFS-6141B001-C00
- Water Neck
  - Summit SUM-377806 (Gasketed)
  - CVR TSH8CL (O-Ring)

**Ultimate Bolt-On Performance® Lifetime Warranty**

**Trick Flow Specialties cylinder head castings are backed by a lifetime warranty.**

**If a cylinder head casting fails to provide the original purchaser with complete satisfaction, Trick Flow will repair or replace it free of charge – guaranteed!**

Moreover, the valves, valve guides, valve seats, valve job, valve springs, valve spring retainers, valve locks, rocker arm studs, guideplates, and valve stem seals included on assembled Trick Flow Specialties cylinder heads are warranted to the original purchaser to be free from defects in materials and workmanship for a period of two years from the date of purchase. All other Trick Flow Specialties products are warranted to be free from defects in materials and workmanship for a period of 90 days. There are no mileage limitations.

**Extent of Warranty**

Customers who believe they have a defective product should return it to the dealer from which they purchased or ship it freight prepaid to Trick Flow Specialties along with proof of purchase and a complete description of the problem. If a thorough inspection indicates defects in materials or workmanship, our sole obligation is to repair or replace the product.

This warranty is only if the product is properly installed, subjected to normal use and service, did not fail due to owner negligence or misuse, and has not been altered or modified.

Trick Flow Specialties warranties do not cover any installation or removal costs.

Trick Flow Specialties is not liable for consequential damages for breach of contract of any warranty in excess of the purchase price of the product sold.

**PROPOSITION 65 WARNING**

This product may contain one or more substances or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

TRICK FLOW SPECIALTIES  
285 WEST AVE.  
TALLMADGE, OHIO 44278  
(330) 630-1555

