



## Sniper Fabricated Intake Manifold kits for Small Block Chevrolet Engines (Carbureted versions)

Sniper Intake Manifold Part #	Manifold Description
825011	Fabricated Intake Manifold SBC Single Plane (1 x 4150 flange) Carbureted Silver w/ Sniper logo
825012	Fabricated Intake Manifold SBC Single Plane (1 x 4150 flange) Carbureted Black w/ Sniper logo
825071	Fabricated Intake Manifold SBC Single Plane (2 x 4150 flange) Carbureted Silver w/ Sniper logo
825072	Fabricated Intake Manifold SBC Single Plane (2 x 4150 flange) Carbureted Black w/ Sniper logo
825121	Fabricated Intake Manifold SBC Single Plane Carbureted (1 x 4150 flange plate) Silver w/ Sniper logo
825122	Fabricated Intake Manifold SBC Single Plane Carbureted (1 x 4150 flange plate) Black w/ Sniper logo
825123	Fabricated Intake Manifold SBC Single Plane Carbureted (2 x 4150 flange plate) Silver w/ Sniper logo
825124	Fabricated Intake Manifold SBC Single Plane Carbureted (2 x 4150 flange plate) Black w/ Sniper logo
825131	Fabricated Intake Manifold SBC Single Plane Carbureted (1 x 4500 flange plate) Silver w/ Sniper logo
825132	Fabricated Intake Manifold SBC Single Plane Carbureted (1 x 4500 flange plate) Black w/ Sniper logo

### Installation Instructions

199R11777

**(Before Installation, please read these instructions completely)**

#### Applications:

Holley Sniper manifold series are designed for Chevy Small Block engines. All of these intake manifolds are designed to work with OE or aftermarket cylinder heads as long as the head is configured with the intake flange bolt pattern and intake port opening locations matching the appropriate Chevy Small Block engines.

These Hi-Ram style intake manifolds are designed for high performance engine applications with maximum engine speeds of 7000-7500rpm (carbureted) depending on the engine combination. These manifolds are intended for maximum performance applications and will accept stock hardware. A modified hood will be required for most vehicle applications.

#### Emissions Equipment:

Holley Sniper Intake manifolds do not accept any emission-control devices. This part is not legal for sale or use for motor vehicles with pollution-controlled equipment.

#### Installation Kit Contents (Carbureted Series manifolds):

- Intake Manifold
- Installation Instructions
-

**NOTE:** Due to numerous variations in attaching hardware and gasket options, these intake manifolds DO NOT include mounting hardware or gaskets. It is up to the consumer to determine what type of hardware and gaskets are to be used. These intakes have been designed to accommodate OE style mounting provisions and gaskets.

## **Installation Instructions:**

### **Installation on Modified Engine Components-**

Holley Sniper intake manifolds are designed to provide maximum performance for racing engines. The intake manifold will have the best fitment when the engine block and cylinder heads are machined to standard OE dimensions. If the engine block or cylinder head deck surfaces have been milled significantly, the alignment of the mounting bolt holes and the port flange openings to the cylinder head may be shifted and not match-up satisfactorily. If your engine has had the cylinder head or engine block deck surfaces milled, the following steps may be necessary for proper intake manifold installation.

- The bolt holes in the intake manifold may have to be slotted to allow the fastener to properly pass through the manifold mounting holes.
- The mounting fasteners must be freely thread into the cylinder head while passing through the mounting holes or the manifold may not seat properly onto the cylinder head surfaces when the fasteners are tightened.

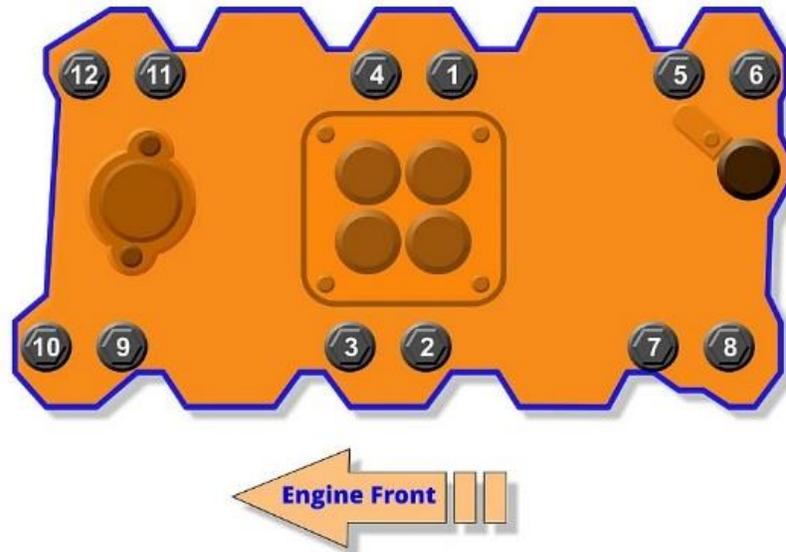
### **Installation of the Intake Manifold-**

1. Before installing the intake manifold base, perform a test fit of the intake manifold without the intake manifold gaskets installed. Make sure that your intake mounting hardware/bolts can thread freely into the cylinder heads through the intake manifold mounting holes. The mounting flange should seat properly.
2. Check the port opening alignment. Test fit, fuel and vacuum plumbing, throttle linkage, wiring, etc. to ensure there are not any fit issues before performing the final intake manifold installation.
3. Install your chosen intake manifold gaskets onto cylinder heads. Be sure to use an RTV (room temperature vulcanizing) style sealant in areas around water passages and transition areas around coolant passages and transition points around the valley area of the engine.
4. Place the intake manifold into place on the mounting flange. Be sure that your manifold's gaskets are properly seated.
5. Install the mounting studs into the cylinder heads. Apply engine oil to the threads and thread in the stud until all of the threads are engaged by hand.

**WARNING! Threads in an aluminum cylinder head will not withstand abuse. Care must be taken to have proper thread alignment engagement and to tighten the fasteners to the proper specifications.**

6. Gently tighten the bolts working side to side and out from the center (see the following tightening sequence diagram), until manifold is seated on the mounting flanges and the gaskets have been compressed. In two steps, tighten the mounting nuts first to 44 in-lbs. and then to 89 in-lbs. following the recommended sequence diagram.

## Manifold Tightening Sequence (Small Block Chevy)



7. On the underside of the intake manifold plenum area, there is a flange with (x4) holes tapped. (x1) 1/4" NPT and (x3) 3/8" NPT fittings are provided. These ports will provide ample vacuum port sources for your manifold. Any of these ports can be utilized depending on required needs. Any unused ports can be easily plugged or an NPT fitting can be capped for later use as needed.

### **Installation of the Carburetors –**

1. When installing carburetor(s) and the connecting throttle linkage, check to be sure that all throttle levers and linkage components have adequate clearance from the intake manifold and plenum top.
2. Be sure if you are reusing your carburetor base gasket, that the gasket is in good shape, and does not show signs of deterioration. This can lead to vacuum leaks.
3. The plenum tops for the (1 x 4150), (2 x 4150), and (1 x 4500) carburetor configurations do not have bosses for the mounting of throttle linkage. A bracket will need to be fabricated by the user for the particular linkage being used.

## **Recommended Holley Sniper Service Parts/Accessories (sold separately):**

### **Intake Manifold Gasket Sets**

**101B** - 55-91 Small Block Chevy Performance Gasket Set

**5820** - 55-91 Small Block Chevy Ultra-Seal Gasket Set

### **Intake Manifold Bolt Kits:**

**955G** - 55-95 Small Block Chevy Intake Manifold Bolt Kit (Grade 5) Hex Head (Includes washers)

**956G** - 55-95 Small Block Chevy Intake Manifold Bolt Kit (Grade 5) Allen Head (Includes washers)

**957G** - 55-95 Small Block Chevy Intake Manifold Bolt Kit (Grade 5) Socket Head (Includes washers)

**6080MRG** - 55-95 Small Block Chevy Intake Manifold Bolt Kit (Grade 5) Super Flange Head (Includes washers)

### **RTV Sealant:**

**78080G** – RTV Sealant – Grey (3oz. Tube)

### **Carburetor Base Gasket:**

**54C** - 4-barrel square flange (open center) base gasket (1 x 4150 style)

**58C** - 4-barrel square flange (open center) base gasket (1 x 4500 style)

**Holley Technical Support**  
**1801 Russellville Road**  
**Bowling Green, KY 42101**  
**1-866-464-6553**  
**270-781-9741**  
[www.holley.com](http://www.holley.com)

©2019 Holley Performance Products, Inc. All rights reserved. Tous Droits Réservés.

**199R11777**

**Date: 2-8-19**