

PART NUMBER:
203.51.2502

**HONKER C5
AIR INDUCTION SYSTEM**

INSTRUCTION SHEET NUMBER:
903.51.9850.L

APPLICATION:
1997-2000 CORVETTE
(without supercharger)

PACKAGE CONTENTS:

- Air Box Cover
- Air Box Base
- Filter Element
- Thumbscrews - (4)
- Rivets - (12)
- Elbow
- Clamp, Throttle Body Inlet
- Clamp, MAFS Outlet
- Bellows
- Clamp, MAFS Inlet
- Clamp, Air Box Outlet
- #4 Drill Bit
- Zip Tie
- Template, Shroud Modification
- CARB E.O. Decal

TOOLS REQUIRED:

- Flat Blade Screwdriver
- 7mm Socket and Drive Attachment
- 8mm Socket and Drive Attachment
- 10mm Socket and Drive Attachment
- T30 Torx Socket and Drive Attachment
- Center Punch
- Masking Tape
- Drill Motor
- Rivet Gun
- Tin Snips or Plastic Cutting Saw
- Small C-clamps - (2)
- Windex or Equivalent Glass Cleaner

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READ THIS FIRST

Review the entire instruction manual before proceeding with the installation. If any of these steps are not clear, please call 860-434-9002 or e-mail us at techinfo@callawaycars.com for further explanation.

A working knowledge of the C5 Corvette is assumed as well as good mechanical practices. When checking the kit contents against the packing slip, make sure that no parts were damaged during shipping.

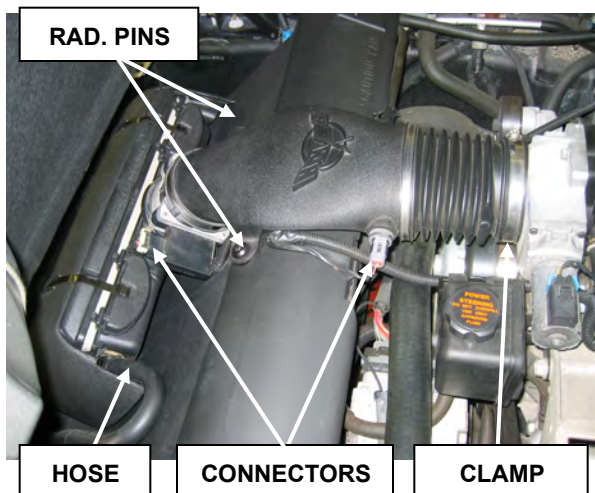
This installation involves raising the vehicle to remove the radiator fan shroud. Whenever the car is lifted, be sure to use suitable jack stands or a locking vehicle lift to support your car's weight.

Disconnect the battery ground terminal before starting work on the car.

1

REMOVE OE AIRBOX & DUCTING

A) Disconnect Mass Air Flow (MAF) sensor and Inlet Air Temperature sensor wiring connectors and release harness from retainer on shroud. Remove retainer on shroud.



1

REMOVE OE AIRBOX & DUCTING (cont.)

B) Remove air pump fresh air inlet hose from airbox.

C) Release the clamp holding the bellows to the throttle body. (On 1997 models, remove the line that runs from the bellows to the fuel pressure regulator. You will not reconnect this line.)

D) Remove the bellows assembly from the throttle body end.

E) Raise the duct end up to lift grommets off mounting pins on the radiator shroud.

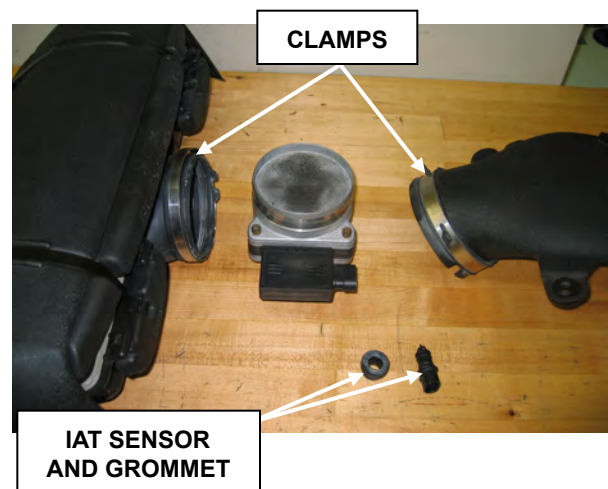
F) Rock the entire airbox assembly back and forth to release it from the pins on the bumper beam, then remove entire air box assembly.

2

REMOVE MAF SENSOR FROM AIRBOX

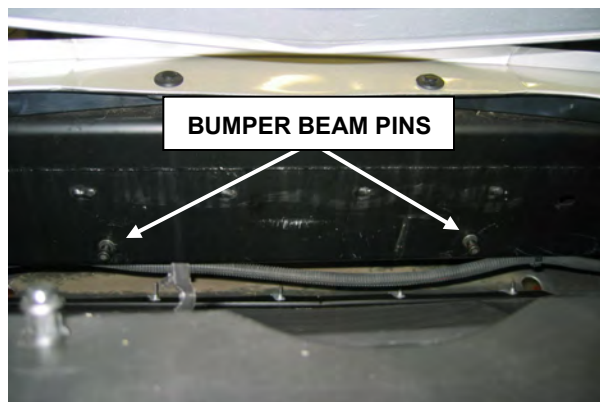
A) Release the clamp from the throttle body duct and remove the duct from the MAF sensor.

B) Release clamp from airbox and remove MAF sensor from airbox. Remove IAT sensor from duct.



3 REMOVE PINS FROM BUMPER BEAM

Remove the two (2) bumper beam pins using the T30 Torx socket. Clean the radiator shroud sufficiently so that tape may adhere to it.

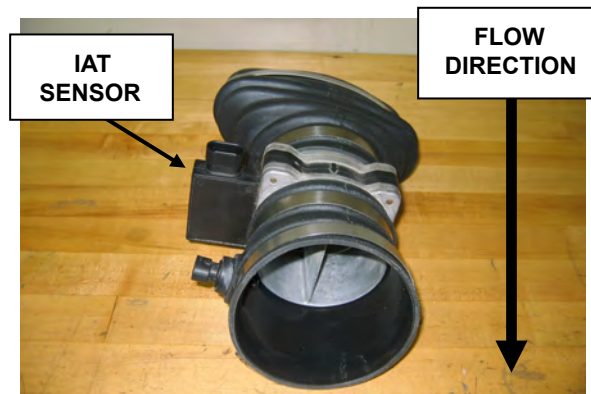


4 PREPARE MAF SENSOR ASSEMBLY

A) Assemble MAF sensor into elbow so that it aligns properly with the lug and the flow arrow points towards the elbow. Snug clamp.

B) Insert IAT sensor into elbow.
(Tech Tip: Windex or an equivalent cleaner may help installation of IAT sensor.)

C) Install the bellows onto the MAF sensor. Snug clamp.



5 PRE-FIT HONKER ASSEMBLY

A) The Honker comes with the filter element in place. Remove the four (4) thumb screws and slide the airbox cover out of the base so that you can remove the filter element. Reassemble the airbox cover to the base and snug all thumb screws.

B) Install the bellows/MAFS/elbow subassembly onto the outlet of the airbox. Clamp screws will be on bottom.

C) Position the Honker onto the car. Slip the elbow onto the throttle body.

D) Snug the clamps on both the elbow and airbox cover.

E) Make sure the airbox cover is not resting directly on the upper radiator shroud. There should be 1/8" to 1/4" of space. It may be helpful to use a small shim.

6 MARK RADIATOR SHROUD FOR TEMPLATE

Using masking tape, butt the side of tape to the airbox base on both sides and top. Make sure the tape adheres to the plastic radiator shroud, as this will mark the location for the template.



7 REMOVE HONKER AIRBOX

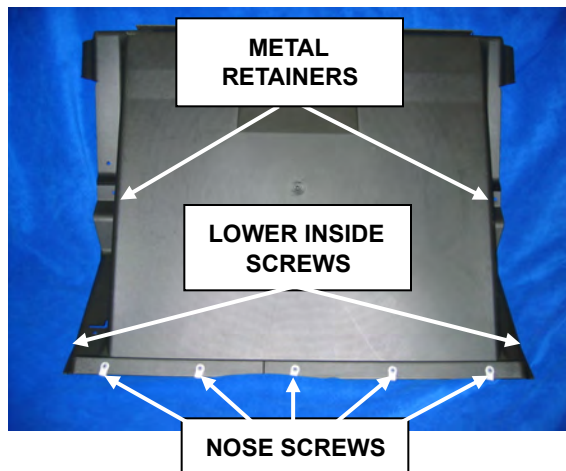
A) Release clamps at throttle body and airbox.

B) Push bellows onto airbox outlet as needed to provide clearance for removing elbow from throttle body.

C) Lift Honker airbox assembly from the radiator support locating pins.

8 REMOVE RADIATOR SHROUD

- A) Remove the (4) 10mm bolts securing the radiator cover and then remove cover.
- B) Disconnect the hood light connector from the radiator shroud.
- C) Unplug the ambient air temperature sensor.
- D) Remove the two (2) metal retaining clips from plastic retainers.



- E) Raise and safely secure the car to gain access to the front shroud screws.
- F) Remove the five (5) 7mm screws holding the shroud to the nose.
- G) Remove the two (2) 7mm screws on the lower inside of the shroud. (Tech Tip: Tip the air dam to gain access.)

9 ALIGN TEMPLATE AND HOLE FOR AIRBOX BASE

- A) Using the tape marks as a guide, align the template between the sides and the top. Tape template in place.
- B) Center punch the marks on the template.
- C) Using the supplied #4 drill bit, drill through the (12) outer ring marks and radiator shroud. NOTE: The template you have may reference a 3/16" drill bit. Be sure to use the #4 bit.
- D) Using a 1/2" drill bit. Drill through the (4) inner circles.
- E) Going from corner to corner, use snips or plastic cutting saw to trim the opening for the airbox base.
- F) Remove the air box base from the Honker assembly in preparation to install the base onto the shroud.



10 INSTALL AIRBOX BASE

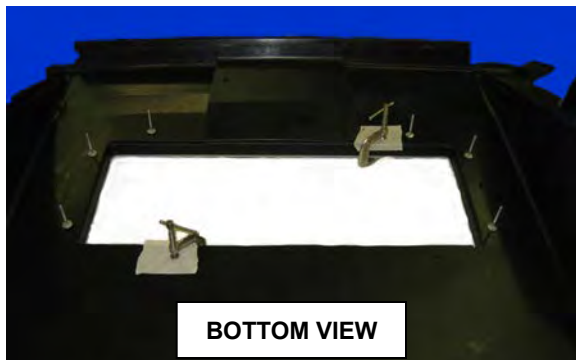
A) Align the filter base to the opening just made.



B) Clamp the filter base to the top side of shroud.

C) Coming from the bottom of the shroud and using the #4 drill bit, drill through the outer ring holes made in step 10 and into one side of the base. **NOTE: DO NOT DRILL THROUGH BOTH SIDES OF THE FILTER BASE.**

D) After drilling each hole, insert a rivet, but do not clinch any rivet until all holes have been drilled and all rivets have been inserted and aligned.



E) After making sure that the base is properly aligned, clinch all rivets.

F) Remove any clamps used.

11 REINSTALL RADIATOR SHROUD

A) Remove any debris which may have accumulated in the condenser and radiator area and then slide shroud into position, making sure that side wings of shroud are on the inner side of the tabs near the air dam.

B) Press the radiator shroud onto the plastic retainers and reinstall the metal retaining clips.

C) Reconnect the ambient air temperature sensor and hood light connectors.

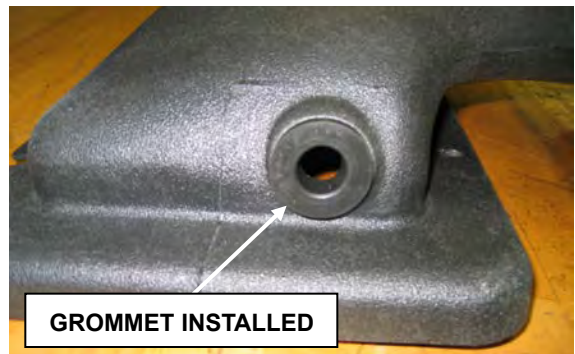
D) Reinstall the five (5) screws to nose and the two (2) on inner lower portion of shroud near air dam.

Tech Tip: Do not tighten fasteners until after Honker assembly is installed.

E) Reinstall the radiator cover and secure with the four (4) screws, then safely lower the car.

12 INSTALL AIR TUBE GROMMET

Remove the grommet for the air pump fresh air inlet from the OE air filter box and transfer it to the Honker cover.



13 INSTALL FILTER ELEMENT INTO FILTER BASE



14 INSTALL AIRBOX COVER

- A) Slide cover onto base.
- B) Align holes for thumbscrews.
- C) Insert and tighten thumbscrews.
- D) Loosen clamp for bellows to airbox cover.
- E) Slide bellows onto airbox cover, just enough to provide clearance for elbow placement onto the throttle body.
- F) Slide bellows toward engine until elbow is properly seated on the throttle body.
- G) Snug clamp at throttle body.
- H) Snug clamp at bellows.
- I) Tighten all fasteners of radiator shroud.

15 SECURE WIRING

- A) Plug in the MAFS and IAT Sensor electrical connectors and secure excess wiring under LH injector cover with the zip tie.
- B) Reconnect the battery negative cable.
- C) Perform GM idle learn procedure as needed.

16 AFFIX EMISSIONS LABEL

This device is 50-state legal for 1997-2004 LS1 Corvettes and 2001 LS6-powered Corvette Z06's. A CARB E.O. label has been provided which should be affixed to the vehicle as shown below.



17**SERVICING THE FILTER
ELEMENT**

Unless it becomes physically damaged or improperly maintained, your Callaway air filter element will not need replacement during the life of your car. The element is pre-oiled as packaged.

Maintenance should be conducted at regular intervals as specified in your GM owner's manual and should include thorough cleaning and re-oiling of the element with Callaway Filter Cleaning Oils: Kit P/N 203.00.9250 for Green filter elements (green) or Kit P/N 203.00.9251 for K&N filter elements (red).

As with any filter element, the operating environment, such as high dust areas, will dictate the frequency of service intervals.

Service Instructions:

1) Tap filter element or blow out with air to remove excess dirt. If blowing out, avoid damaging the filter element material with excessive air pressure.

2) Spray filter element with Callaway cleaning solution and allow solution to soak into the element for about 15 minutes.

Tech Tip: *Never use strong detergents, high-pressure water, or flammable solvents.*

3) Rinse filter with warm water, clean side to dirty side, to flush out the dirt.

4) Allow filter to dry naturally. Try to avoid excessive heat as it might shrink and tear the filter element material.

5) Re-oil filter using filter oil.

CAUTION: Use only Callaway Filter Cleaning Kits: P/N 203.00.9250 for Green filter elements (green) and P/N 203.00.9251 for K&N filter elements (red). Never use motor oil, transmission fluid, WD-40 or other non-recommended oils. Use of non-recommended oils can result in poor filtration and may ignite under certain conditions.

Do not over-oil filter element as this may cause damage to engine management sensors in the intake system. Apply enough oil to cover the filter element material without dripping off the filter. Never use Callaway filters without oil.