



## **“Shaker”**

### **99-04 Mustang GT (#105115) '01 BULLITT (#105116) Components Check List:**

<b>CDC Inspected</b>	<b>Installer Check</b>	<b>Quantity – Descriptions</b>
<input type="checkbox"/>	<input type="checkbox"/>	1- Hood Appliqué
<input type="checkbox"/>	<input type="checkbox"/>	1- Hood Appliqué Weather Seal
<input type="checkbox"/>	<input type="checkbox"/>	1- Aluminum Shaker Scoop
<input type="checkbox"/>	<input type="checkbox"/>	1- Lower Air Box
<input type="checkbox"/>	<input type="checkbox"/>	1- Upper Air Box w/CDC nameplate
<input type="checkbox"/>	<input type="checkbox"/>	1- Air Tube
<input type="checkbox"/>	<input type="checkbox"/>	4- Ball Stud Sockets & Brackets (X, Y & Z)
<input type="checkbox"/>	<input type="checkbox"/>	2- Brackets (driver and passenger)
<input type="checkbox"/>	<input type="checkbox"/>	4- M-6-1.0 Ball Studs
<input type="checkbox"/>	<input type="checkbox"/>	1- 3/8" ID Driver Side Drain Tube
<input type="checkbox"/>	<input type="checkbox"/>	2- 3/8" Drain Tubes (18" length)
<input type="checkbox"/>	<input type="checkbox"/>	4- 4.8-1.6 x 15mm Phillips Head Screws
<input type="checkbox"/>	<input type="checkbox"/>	7- 5/16" Thread Cutting Nuts
<input type="checkbox"/>	<input type="checkbox"/>	3- M-6-1.0 X 70mm Hex Head Screws
<input type="checkbox"/>	<input type="checkbox"/>	1- M-6-1.0 X 75mm Hex Head Screw
<input type="checkbox"/>	<input type="checkbox"/>	2- M-6-1.0 X 10mm Hex Head Screws
<input type="checkbox"/>	<input type="checkbox"/>	4- M-6 Washers
<input type="checkbox"/>	<input type="checkbox"/>	6- M6-1.0 X 22mm Hex Head Bolts
<input type="checkbox"/>	<input type="checkbox"/>	2- 1/4" Washers
<input type="checkbox"/>	<input type="checkbox"/>	1- 6mm nut (Bullitt Only)
<input type="checkbox"/>	<input type="checkbox"/>	1- Hood Cutout Template
<input type="checkbox"/>	<input type="checkbox"/>	1- Air Filter Cover Cutout Template
<input type="checkbox"/>	<input type="checkbox"/>	1- Roll 3M Acrylic Foam Tape 1/4" width
<input type="checkbox"/>	<input type="checkbox"/>	2- Alcohol Packs
<input type="checkbox"/>	<input type="checkbox"/>	1- 3M Adhesion Promoter Pack
<input type="checkbox"/>	<input type="checkbox"/>	Instructions



## 99-04 Mustang GT & Bullitt "Shaker" System Instructions

**Note:** Read installation instructions before starting and test fit component before painting. The Shaker Hood Appliqué is molded ABS Plastic. To ensure the quality of your vehicle and the product, have your Appliqué painted by a professional automotive painting facility (Appliqué must be painted). We recommend that paint-curing temperature not exceed 130°F.

### **Tool List For Appliqué:**

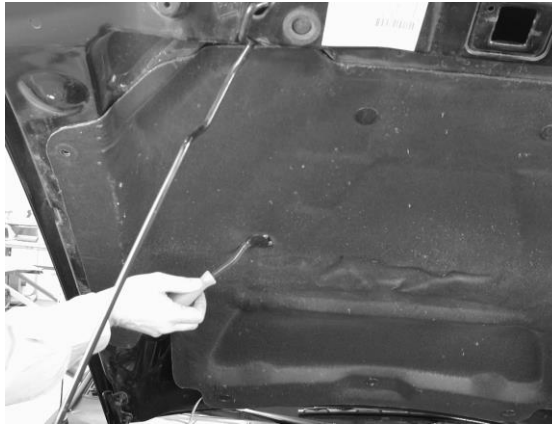
- ☐ Template
- ☐ Tape
- ☐ Center Punch
- ☐ 1" Hole Saw
- ☐ Saber Saw
- ☐ 1/8" Pilot Drill Bit
- ☐ 5/16" Drill Bit
- ☐ 3/8" Drill Bit
- ☐ Scissors for cutting Template
- ☐ Drill Motor
- ☐ Phillips Head Screw Driver
- ☐ Eye Protection
- ☐ Automotive Silicone

### **Tool List For Shaker & Shaker Brackets:**

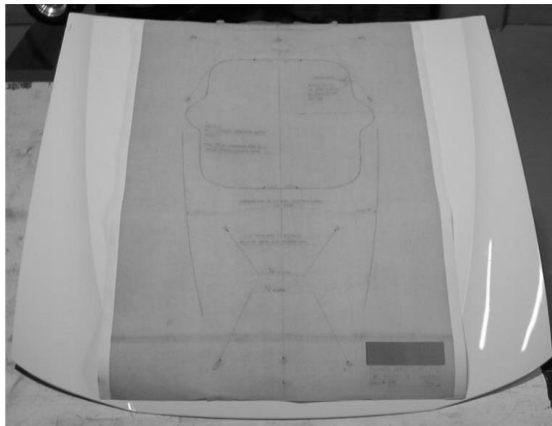
- ☐ 8mm Socket
- ☐ 10mm Socket
- ☐ 11mm Socket
- ☐ 1/4" or 3/8" Drive Ratchet
- ☐ T40 (Torx Bit)
- ☐ IN. LB. Torque Wrench
- ☐ Removable Loctite
- ☐ 1/2" Socket, 1/4" Drive
- ☐ 1/4" Drive Nut Driver

## **Installing Hood Appliqué:**

- A) Raise Hood. Remove under hood blanket (and production hood scoop if installed on car, 7, 9mm nuts).



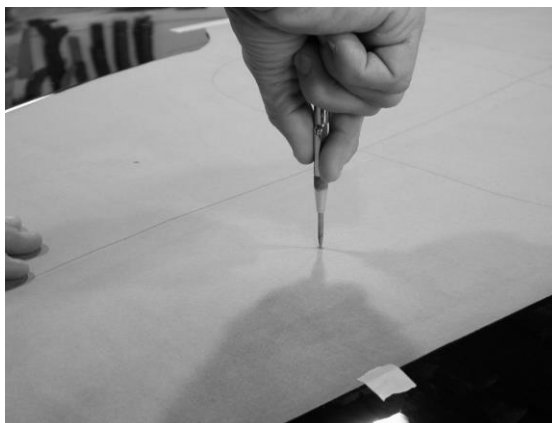
- B) Close hood - Align template with hood feature lines as noted on template. Tape template securely to outside hood surface.



**Note: During the drilling and cutting process, elevate hood far enough to ensure no damage will occur to engine components.**

**\*\*Note: Do not remove template from hood until steps B-E are complete.**

- C) Using a center punch, transfer the (11) attachment point locations to the hood. Drill with a 1/8" pilot hole through template, hood and inner reinforcement.



**NOTE: Make sure holes A, B, C, D, E are drilled through hood inner reinforcement.**

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- D) Raise hood – Using a 1" hole saw, drill holes called out as A, B, C, D and E in the hood inner reinforcement.

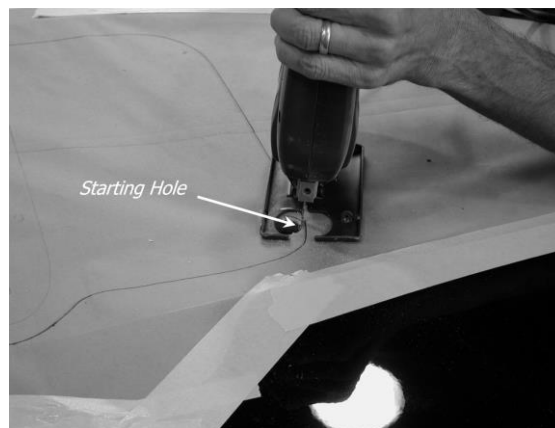


**Note: DO NOT DRILL THROUGH THE HOOD OUTER WITH HOLE SAW!**

- E) Close hood. Finish drilling the (11) pilot holes with the drill size indicated on the template.

**Note: When drilling holes called out as “D” & “E”, drill should be 90° to floor NOT hood.**

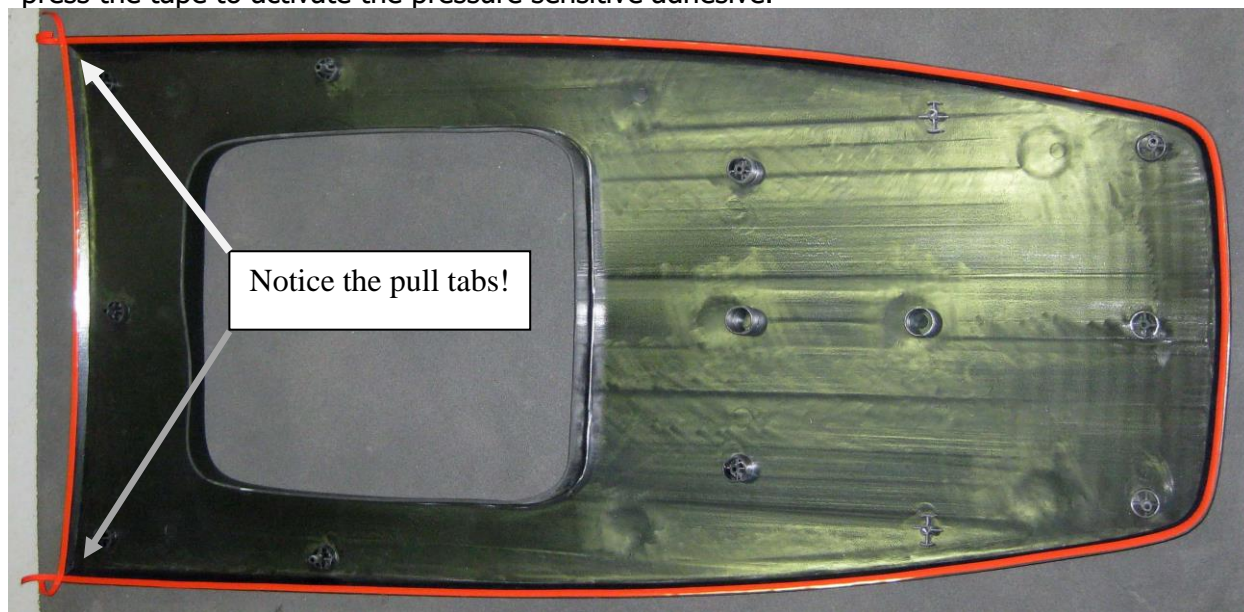
- F) Drill a starter hole for the Shaker opening with a 1" hole saw as shown on template. Use a saber saw to cut out the Shaker opening.



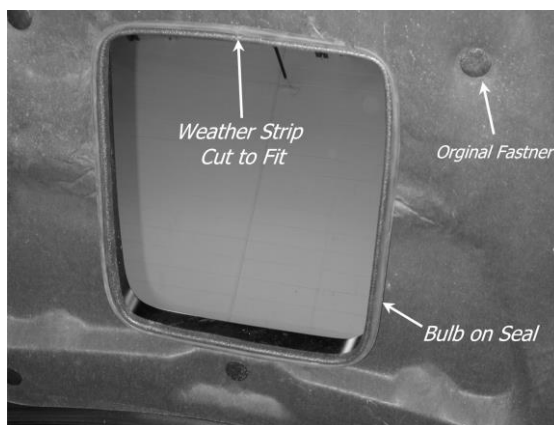
- G) Place Appliqué on hood to verify hole locations and fitment. Open holes as necessary to obtain proper fitment. Remove Applique' once desired located is achieved.

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- H) Apply 3M Tape to the underside perimeter of Applique'. For best results, lightly sand (120 grit sand paper or Scotchbrite) the tape surface to remove any waxes and or paint, clean with alcohol pad (allow to dry), apply 3M adhesion promoter (allow to dry), then apply the 3M tape. **Note:** Leave an extra couple inches of the red backing to create "pull tabs" (as shown in pics). Firmly press the tape to activate the pressure sensitive adhesive.



- I) Clean top surface of hood (around Applique' tape mating surface) with Alcohol pack and allow to dry.
- J) Install Applique'. Place on top of hood so that Applique' is sitting flush to hood. Start removing the red backing from the 3M tape working around the entire perimeter. Press firmly to activate tape adhesive.
- K) Open hood. Attach appliqué to hood using (7) Thread Cutting Nuts and (4) 4.8-1.6 x 15mm Screws. Use Phillips head screws at attachment points just forward of hood scoop opening.
- Note: Do not over tighten appliqué attachment nuts & screws! Install thread cutting nuts with a ½" socket on a nut driver to hand tight. Torque Nuts to 20-25 inch pounds.**
- L) Reinstall hood blanket using original fasteners.
- M) Cut hood blanket to fit tightly against the outside of the Appliqué opening flange.
- N) Install weather strip and cut to size to opening as shown. Weather strip sandwiches appliqué, hood and blanket together.



**Note: Bulb on seal should be on outside of opening.**

## **Assembling Air Tube:**

- A) Remove stock air filter housing and rubber air snorkel from vehicle.
- B) Cut out air filter housing template.
- C) Place template on air filter housing following instructions on template.
- D) Mark hole location onto air filter housing and cut out.
- E) Drill a 5/16" hole in bottom of stock air filter housing at its lowest point for drainage.
- F) Attach Shaker air tube to air filter housing.



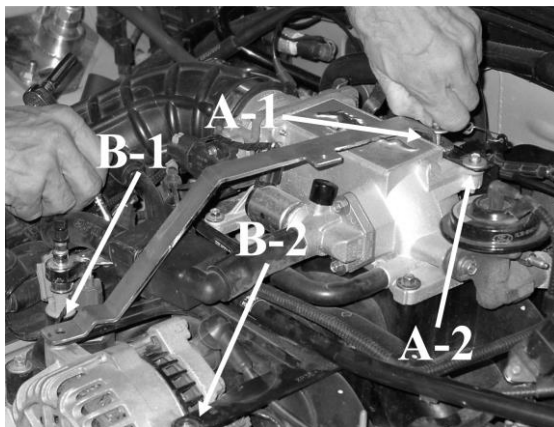
**Note: Do not remove the flap from the air tube. The flap prevents any moisture that may get in the system from falling directly onto the filter. However, you may trim the Air Tube flap. Remove the factory air silencer from the filter housing and install Air Tube. Place filter into the filter housing. Reach through the silencer opening and mark the flap that is visible around the filter. Remove the filter and trim flap along your marks, leaving the flap whole above the air filter. Reinstall silencer.**



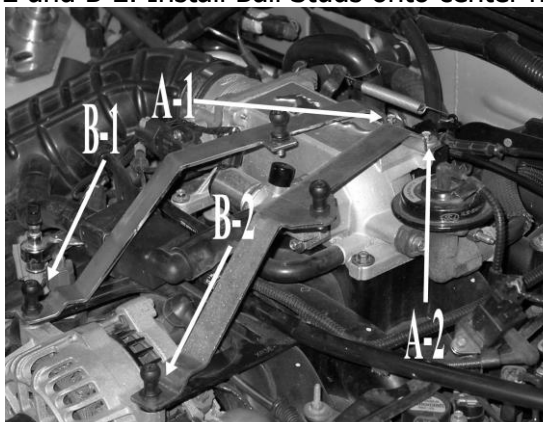
## **Mounting Shaker Air box:**

**Bullitt owners - please skip steps A & B and refer to the Bullitt insert for bracket mounting instructions.**

- A) Remove passenger side bolts A-1 and B-1. Place bracket on vehicle as shown. Bolts A-1 and A-2 will be re-used and bolts B-1 and B-2 will be discarded and replaced with Silver Ball Studs provided in kit. Use removable loctite on all bolts & Ball Stud Threads. **Do not remove both A bolts at same time.**



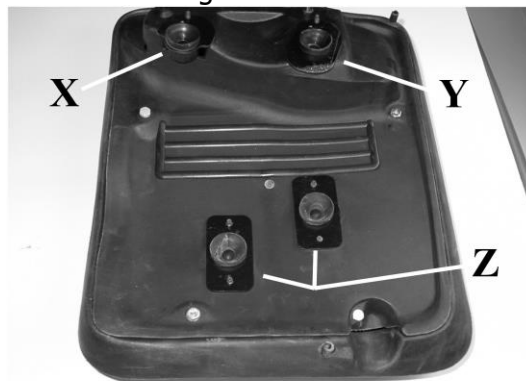
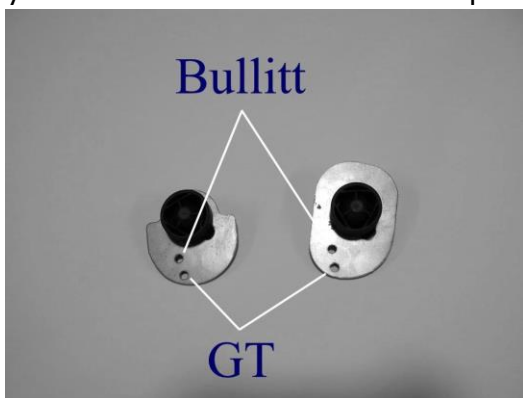
- B) Repeat step A with bolts A-2 and B-2. Install Ball Studs onto center hole of brackets.



**Note:** Torque ball studs to 40 inch pounds, over tightening will damage ball stud.

## **Shaker Air Box Assembly:**

- A) Loosely install 4 brackets with ball stud caps to lower air box using M6-1.0 x 22mm bolts.



**Note:** Bolts need to be loose to allow for later adjustments.

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- B) Place upper air box and aluminum scoop onto lower air box, without hardware and snap unit to brackets on motor by firmly pushing onto ball studs.



- C) Close hood gently and align shaker scoop in center of hood opening.
- D) Once the aluminum scoop is aligned, with the hood closed, remove only the aluminum scoop from the upper air box and tighten brackets X, Y and Z.



- E) Open hood to remove the entire Shaker air box assembly from brackets on the motor.
- F) Assemble Shaker aluminum scoop to upper air box using two M6-1.0 x 10mm bolts w/1/4" flat washer. Assemble lower air box to Shaker aluminum scoop using three M6-1.0 x 70mm w/6mm flat washer and one M6-1.0 x 75mm w/6mm washer.



### **DO NOT OVERTIGHTEN!**

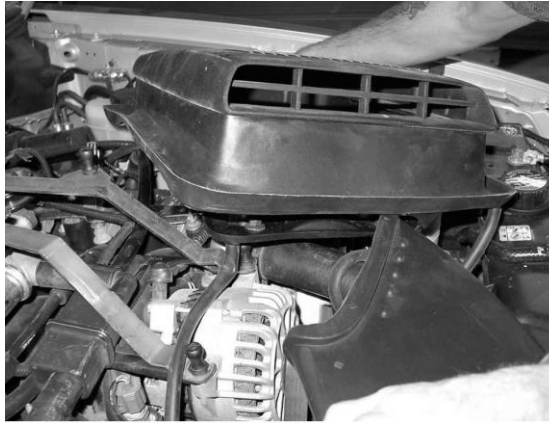
**Snug two rear bolts, tighten other bolts to 25 inch pounds, use thread locker.**

- G) Install stock air filter housing with Shaker air tube back into vehicle.



**Note:** When reconnecting the filter housing to the mass air flange, it is imperative that the union is properly sealed to prevent a false reading from the mass air sensor.

- H) Slide entire Shaker air box assembly onto the air tube already assembled in vehicle. Once air tube is inserted into the Shaker air box, snap down onto ball studs to lock in place.



**DRAIN TUBES:**

Route drain tubes, down each side of motor. Be sure to avoid all hot and moving parts of the engine secure drain tubes to hose fittings with tie straps



**Thank you for choosing Classic Design Concepts for your restyling needs. If you have any questions or concerns regarding installation please contact [Tech@CDCdetroit.com](mailto:Tech@CDCdetroit.com) or call 866-624-7997.**