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Brembo Brake Cooling Duct Kit, 2010-2014 Mustang

Congratulations on the purchase of your Blowfish Racing LLC Brembo Brake Cooling Duct Kit! You have chosen a quality, American Made product that has been Engineered for the demands of the racing world.

**WARRANTY:** This product is guaranteed to be manufactured to a high quality standard. If the part or finish fails within 1 year, it can be returned for a new replacement. Shipping costs back to us is the customer's responsibility. Any mis-use of this product will void the warranty.

**NOTE:** For 2010-2012 Mustangs, this kit requires the use of the BOSS/California Special lower front fascia. The GT, V6 and GT500 fascias do not have a place to plumb the hose to. California Special Mustangs will lose their fog lights, as this is the where the hose is plumbed to. For 2013-2014 Mustangs, this kit requires the use of MODIFIED bezels (found on the CS model), PN DR3Z17E810BA and DR3Z17E811BA, along with the Blowfish Racing Bezel Plates (BCD-01-200).

**STEP 1:** Preparation

READ THESE DIRECTIONS PRIOR TO THE INSTALLATION!

NOTE: Instructions for removing and reinstalling the bumper cover do not specifically apply to all trim levels. Location, type and quantity of fasteners may vary, depending on trim level, options and aftermarket parts previously installed. If the vehicle is already equipped with a Laguna Seca or World Challenge Splitter, remove it first.

**STEP 2:** Radiator Cover Removal

Remove (8) Push-in Fasteners (see REF 1, BLUE arrows) by lifting center "button" with flat blade screwdriver or tool. Then pull up on main "button" to remove. Remove Radiator Cover.

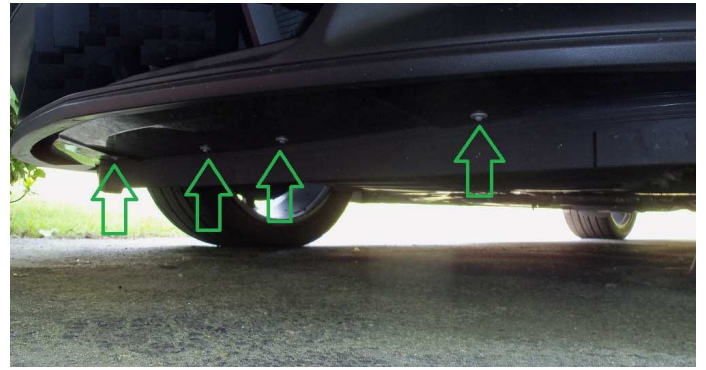
**STEP 3:** Bumper Cover Removal

Remove (2) 8mm bolts (see REF 1, RED arrows). Remove (4) 7mm bolts (see REF 2, GREEN arrows). Remove (4) 7mm bolts (see REF 3, ORANGE arrows). Carefully pull bumper out away from fenders to release it from the clips at the joint (see REF 3, PURPLE arrows). Carefully pull the bumper out at the same place REF 3 picture illustrates to clear the lip (see REF 3, orange arrows) from the inner fender liner. Repeat both pulling processes on the opposite side. The bumper can now be pulled forward just enough to be able to disconnect the electrical connections or aftermarket items previously installed. Disconnect the (2) fog light connectors (if equipped). Disconnect the (2) side marker light connectors (side marker lights are shown in REF 3 picture). Carefully remove air temp sensor (see REF 4, BLACK arrow) from the lower valance opening, while leaving it connected to the electrical harness. Verify the bumper is not connected to any part of the vehicle and carefully remove the bumper. Set the Bumper Cover aside in a safe location that won't scratch any surfaces. A Blanket on an area of the floor that is out of the way, is an acceptable method to keep the Bumper Cover safe.

REF 1



REF 2



REF 3 (Driver side shown. Pass side same)



If your vehicle is not currently equipped with the LS or WC Splitter, but you plan to do so in the future, now is a good time to drill the access holes needed for the Splitter Struts. The instructions and hole pattern template can be found online. Search for: "M17A626MB Installation Instructions".

#### **STEP 4:** Lower Fascia Bezel Removal and Modification

Remove (2) bolts and (2) retaining clips (REF 5-YELLOW arrows) connecting the lower fascia to the bumper cover.

Gently unclip lower fascia from bumper cover (REF 6) and remove by sliding forward. Gently unclip both fog light bezels from outboard sides of lower fascia and remove them.

If the bezels do not have holes in the ends of the cylindrical areas, follow the directions in STEP 4a. If they do, skip this step.

**Bezel Modification:** The back side of the fog light bezels have a dimple in the middle of the cylindrical area. using a 2 3/4" hole saw, place the drill bit on the dimple and carefully drill out the hole. Deburr the edges of the newly created holes.

Attach each hose to the back side of the bezels and use (2) supplied hose clamps to secure the hose to the bezel.

Reinstall both bezels into the lower fascia.

Reinstall lower fascia onto bumper cover, reversing the removal instructions.

#### **STEP 5:** Front Bumper Cover Installation

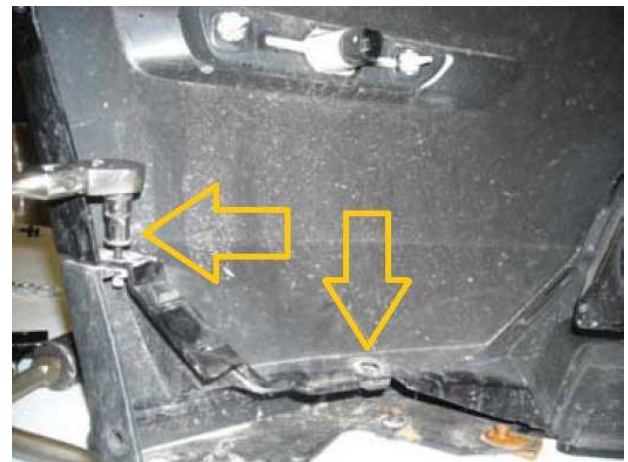
Start by getting the bumper cover as close as possible to thread the hoses through. The hoses will come through to the wheel wells at the lower portions of the inner fender liners, directly adjacent to the outside of the frame rails. Pull the hoses into the wheel wells as you bring the bumper cover in to its seated position.

To reattach the bumper cover, reverse the directions from STEP 3. Do not snap in the bumper cover-to-fender clips or reinstall hardware until checking for the following:

REF 4



REF 5 (Driver side shown. Passenger side same)



REF 6



- 1) Make sure the connectors are all reattached.
- 2) Make sure the temp sensor is reattached to the Lower Fascia or at least the harness is loose and not pinched.
- 3) Make sure that the Bumper Cover wheel well lip is over the inner fender.

4) Make sure that the lowest part of the Bumper Cover is below its attachment flange.

5) Make sure that the Tow Hook Bracket doesn't interfere with any part of your Bumper Cover or Lower Fascia.

Torque all Bumper Cover attachment bolts to 28in/lbs.

#### **STEP 9:** Brake Cooling Backing Plate Installation

*Procedure is for one side, repeat for the other side.*

Jack up the front of the vehicle until the wheels are off the ground and set on jack stands. NEVER WORK ON A VEHICLE SUPPORTED BY A JACK!!

Remove the wheel and set aside.

Remove brake pads from front caliper.

Remove (2) caliper bolts (REF 7-GREEN arrow) and remove caliper. Hang it safely out of the way. DO NOT LET THE CALIPER HANG BY THE BRAKE HOSE/LINE!!

Remove the brake rotor.

Remove (3) backing plate bolts and remove backing plate.

Install the new Brake Cooling Backing Plate, orienting the tube just above the tie rod stud (REF 8). In the same location as the hardware removed previously, install the (3) supplied M8 x 30mm bolts into the backing plate holes that correspond to the threaded holes in the spindle. Place (1) aluminum spacer between the backing

plate and spindle (REF 8-PURPLE arrows) for each of the bolts. Then thread the bolts into the spindle. Tighten the bolts to 15ft/lbs.

Attach the duct hose to the backing plate tube and secure with (1) hose clamp (as shown in REF 8).

#### **STEP 10:** Final assembly

Position the hose, so it follows around the strut, back to the sway bar, then turns forward along the frame rail, to where it passes between the frame rail and the inner fender liner. Using (2) supplied zip ties, loosely secure the hose to the sway bar. Articulate the steering lock-to-lock to make sure there is enough slack. Tighten the zip ties and snip off the excess tie.

Now trim the inner fender liner where the hose passes between it and the frame rail. It should be trimmed just enough to allow the hose to pass without the liner bending.

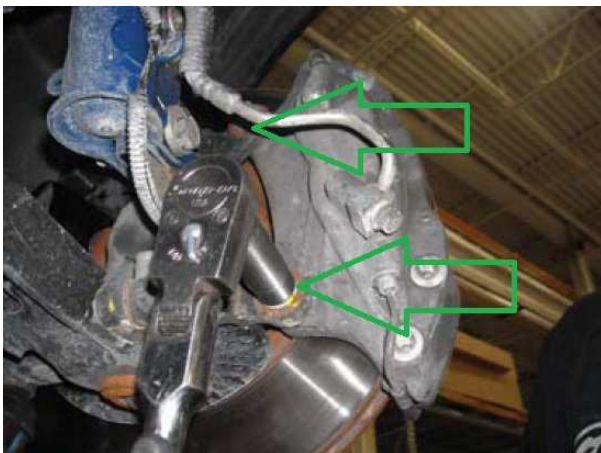
Reinstall the wheel. Torque the lugs per the manufacturer's specifications.

Articulate the steering lock-to-lock once more to make sure the hose does not contact the wheel or tire. Adjust the hose if necessary.

Lower the vehicle back onto the ground and double check lock-to-lock clearance with the suspension loaded.

#### **STEP 11:** ENJOY YOUR BLOWFISH RACING BREMBO BRAKE COOLING DUCT KIT!

REF 7 (Passenger side shown. Driver side same)



REF 8 (Passenger side shown. Driver side same)

