

## Install of Cobra Dragsters exhaust for the Suzuki M109R

**This is to be used as a supplement to the instructions provided by Cobra. If you have any concerns about these instructions refer back to Cobras instructions. These pipes should be used with some sort of fuel management like the Cobra FI2000R**

The install was not that bad but I'm sure some pictures will help. I'm just going to point out the hard parts on this.

Remove the right side covers to gain access to the mounting exhaust hanger mounting bolts.

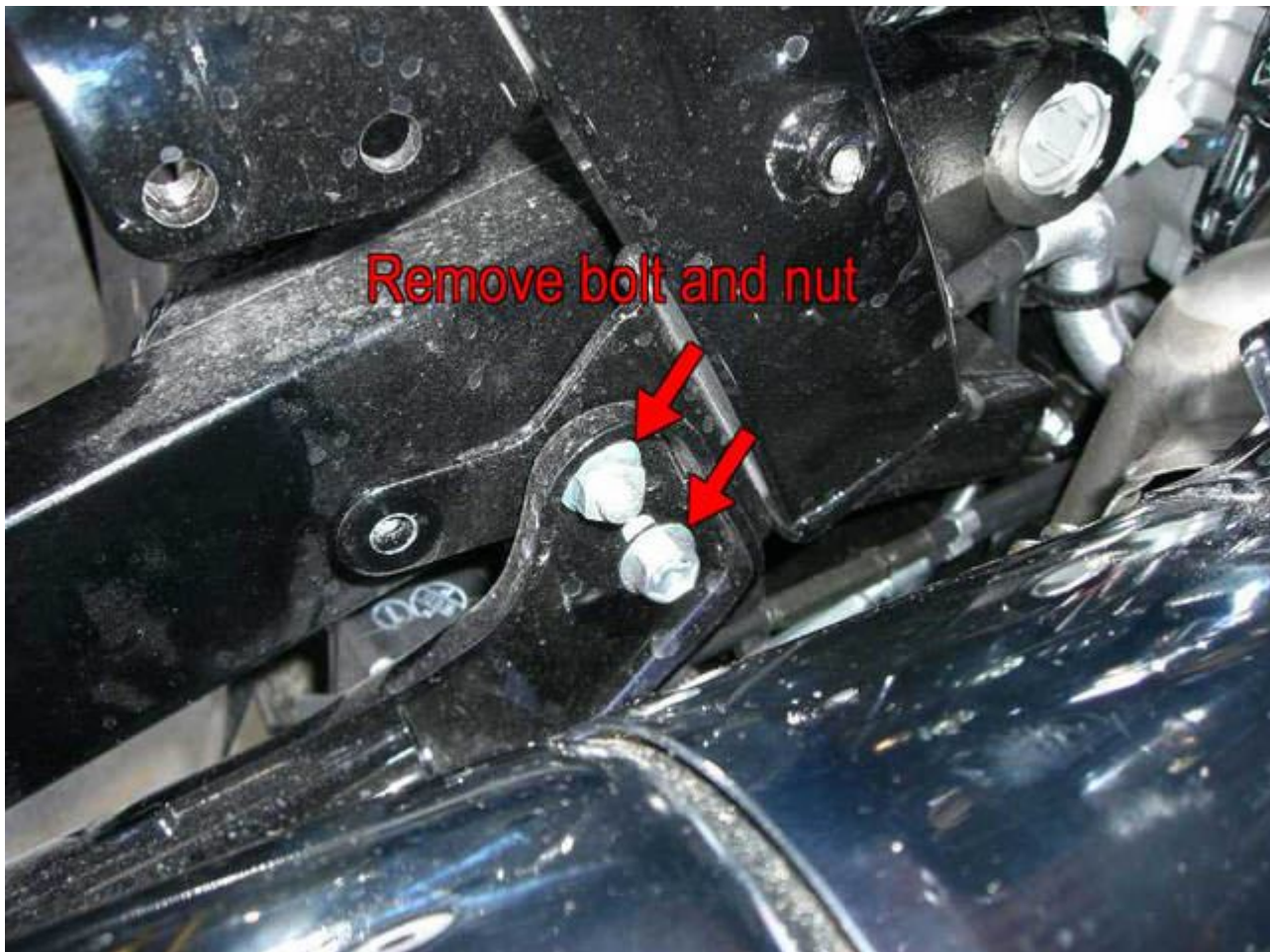
Remove the right side cover above the exhaust (steel). Remove bushing from side cover for later use. This cover will not go back on the bike unless you plan on cutting it to fit. You will reuse the bushing.



Locate the exhaust valve actuator solenoid and harness and disconnect the black connector and the white connector so that this valve can be removed from the exhaust.

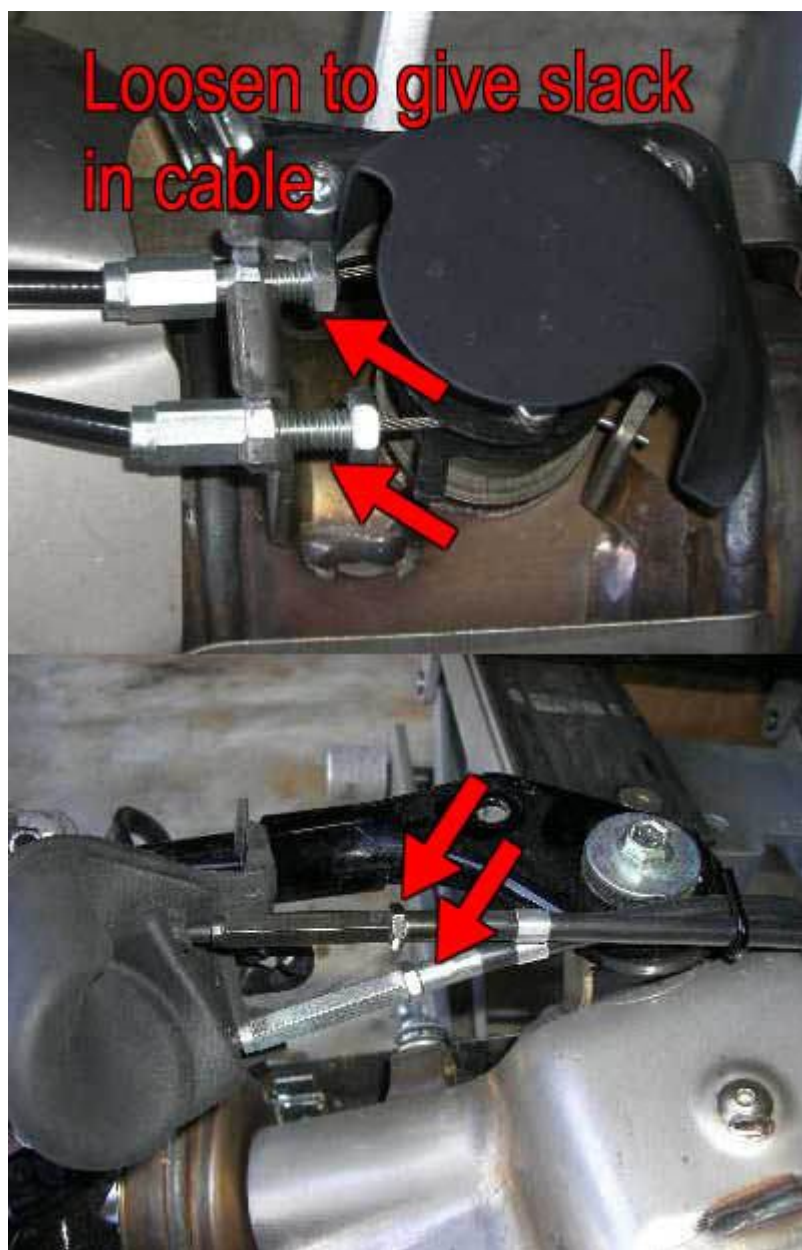


Remove the the exhaust flange bolts on both cylinder heads.  
Remove bolts holding exhaust mounting bracket and then remove exhaust.



This is the part that gets a little confusing but after you do it you understand what they are talking about.

There are two adjustment nuts on each cable. Loosen all four nuts so that you have plenty of slack in the cables.



Remove the mounting bolts.



Remove the dust cover and expose the cam.

I used a big crescent wrench to hold the cam while I broke loose the allen head bolt that holds the cam on to the shaft. Make sure you don't rotate the cam when you do this or you could damage the unit.

At this point the instructions tell you to remove the cables from the cam but you really don't need to, just pop the cam off of the shaft and then remove the cables from the unit.



Install new Cobra cam and tighten bolt.



Install solenoid to Cobra bracket.



This is the time that you are going to bolt on the Cobra exhaust bracket and pipes. Do yourself a favor and put the heat shields on now so you don't have to fight those clamps later. There are two size clamps so make sure you put the longer clamp on the fat part of the pipe. Get all the clamps started but leave them loose so you can install the flange bolts into the heads. I wish I would have figured this out before I did mine. Make sure you have the head of the clamps pointing down so you can tighten them from the bottom.

Install the mounting bracket and pipes but leave everything loose. The solenoid bracket will bolt on the back side of the front pipe. You can plug the two plugs back in now and tuck out of the way.



Snug up all the mounting bolts but not too tight yet. With the slop taken out of the mounting bolts proceed to tighten the exhaust flanges. Now snug up the rest of the bolts.

Install billet end tips.

Push tips tight to the pipes and tighten up pressure clamps.

Reinstall side covers and reuse bushing from steel cover.



Check all bolts again and then fire up those bad boys.  
<http://www.m109riders.com/cobrapipes.WAV>