

## Items Supplied >

- 1 - FRONT HEAD PIPE
- 1 - REAR HEAD PIPE
- 2 - HEAT SHIELDS
- 1 - MUFFLER MOUNTING BRACKET
- 1 - MUFFLER ASSY
- 1 - HARDWARE KIT
- 2 - BILLET MUFFLER TIPS

## Application(s) >

YAMAHA V-STAR 1100 99-09

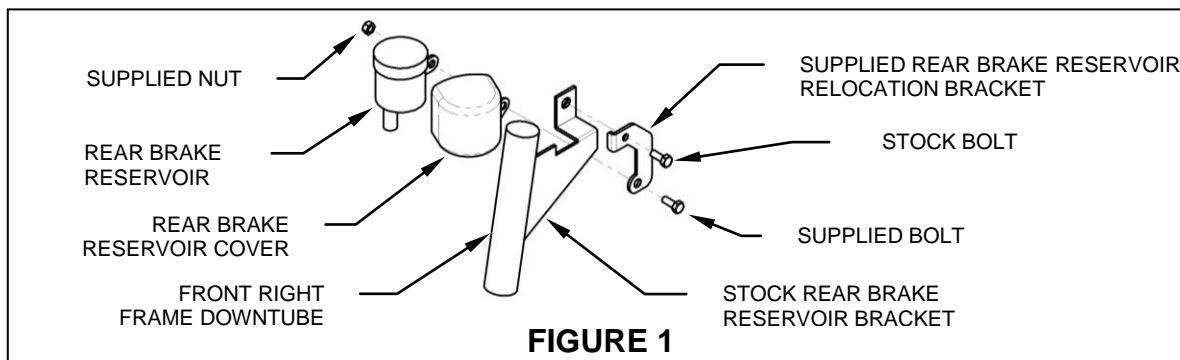
## Instruction Manual >

2817

Page 1 of 2

**PRIOR TO INSTALLATION, MAKE SURE YOUR STOCK GASKETS ARE IN GOOD SHAPE. IF YOU HAVE ANY DOUBTS AS TO THEIR CONDITION, REPLACE THEM.**

1. Remove the two bolts holding the drivers right footpeg/floorboard assembly to the frame.
2. Remove the two zip ties that hold the rear brake reservoir hose and rear brake light switch wire to the frame being careful not to damage the wire or hose.
3. Unbolt the rear brake master cylinder reservoir and cover from the stock bracket setting the stock bolt aside for future reassembly.
4. Remove the stock exhaust system, setting the stock exhaust flange nuts aside for future reassembly.
5. Remove the stock muffler mounting bracket located at the rear of the frame.
6. Attach the bent end of the supplied master cylinder relocation bracket to the stock rear brake reservoir bracket using the stock bolt (see figure 1).



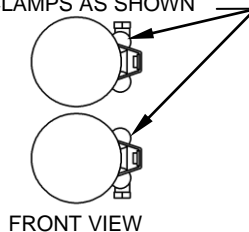
**FIGURE 1**

7. Attach the reservoir and cover to the backside of the supplied reservoir bracket using the supplied M6 bolt and nylock nut.
8. Attach the rear brake reservoir hose and brake light switch wire to the frame down tube with the supplied zip tie so they don't interfere with the cobra exhaust system.
9. Install the supplied muffler mounting bracket where the stock muffler bracket was located by inserting the two supplied M8 bolts thru the mounting bracket and into the frame (do not tighten at this time).
10. Slide one supplied exhaust flange onto each head pipe.

**\* Cobra® recommends you always wear a helmet while riding. Please never operate your motorcycle while under the influence of alcohol and/or drugs. Enjoy the new look of your motorcycle and please ride safely.**

11. Install the front and rear head pipes to the motor using the stock nuts. **DO NOT TIGHTEN.**
12. Remove the muffler assembly from the box and slide two supplied 27-61MSC clamps onto the back muffler tubes. Refer to figure 2 for alignment.
13. Slide the muffler assembly onto the head pipes by tapping on the head pipes with your hand as you push the mufflers forward making sure the assembly slides as far forward as possible. Secure the muffler assembly to the mounting bracket using the supplied 5/16-18 bolts but **do not tighten.**
14. Make sure the muffler assembly is parallel to the ground (this is critical) then tighten the following in order, muffler bracket to the frame, muffler assembly to the muffler bracket, head pipe flanges to the motor (slowly tighten opposing nut) and muffler clamps. (NOTE: If the muffler clamps are slid too far up the muffler or past the three slots, the clamps will not tighten.)
15. Unscrew the remaining hose clamps and feed the tail end of the clamp through the clips on the inside of the heat shields. The screw end of the hose clamp should be accessible for tightening but not visible when the heat shields are mounted to the pipes.
16. To install the front heatshield, first slide the rear portion of the heatshield over the muffler, continue to slowly slide it forward pushing the front of the shield gently into place between the frame and motor (Hint: Spread the hose clamps apart slightly to make it easier to slide them over the muffler assembly and head pipes). Make sure the muffler clamps don't interfere with the heatshields and are aligned as shown in figure 2. Snug the heatshield clamps but **DO NOT TIGHTEN.**
17. Install the rear heatshield the same way as the front heatshield.
18. Install one billet tip on each heatshield making sure the angled ends of the tips are parallel with each other. Fasten the tips with the supplied ¼-20 screws making sure they snug up against the heatshield leaving no gap between the tip and heatshield when tighten. **If it is difficult to slide the tips into the heatshields loosen the clamps on the heatshield, failure to do this may cause damage to the chrome tips.**
19. Tighten the clamps on the heatshields.
20. Reinstall footpeg/floorboard assembly with the stock bolts and tighten.
21. Make sure all the hardware (brackets, headpipes, heatshields, mufflers and baffles) has been tightened appropriately and cleaned before starting your motorcycle.

ORIENTATE CLAMPS AS SHOWN

**FIGURE 2**

**IMPORTANT:** It is recommended that you re-jet your bike with a Cobra Jet Kit, available from Cobra part #92-2170. **Before starting your engine remove all fingerprints from chrome with a quality wax or chrome polish. Failure to do so can cause discoloration. Due to fluctuations in carburetor settings, timing, etc., Cobra Engineering does not warrant against chrome discoloration.**

California does not allow the use of aftermarket exhaust systems that remove original equipment catalysts, (except for racing use only) unless the Air Resources Board has issued an Executive Order for that system.