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Items Supplied >

1 – FRONT EXHAUST HEADPIPE / HEATSHIELD
1 – REAR EXHAUST HEADPIPE / HEATSHIELD
1 – MUFFLER ASSEMBLY
1 – BIKINI HEATSHIELD
1 – EXHAUST BRACKET
6 – CLAMPS HS-24 (SMALLER)
1 – CLAMPS HS-32 (LARGER)
2 – CLAMPS 27-61 MSC
2 – BOLT, HEX 5/16”-18 x 5/8”
2 – BOLT, HEX 3/8”-16 x 3/4"
1 – SCREW, S.H.C 3/8”-16 x 2-1/2”
1 – SCREW, S.H.C. 1/2”-20 x 3”
1 – SPACER, SHORT
1 – SPACER, LONG

Application(s) >

HARLEY – SOFTAIL 86-06
FXST
FXSTB
FXSTC
FXSTD
FLSTF
FLSTN
FLSTSC
FLSTC

Instruction Manual > 6480B

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

Read all instructions carefully and completely before installing your new exhaust system

1. Remove the stock exhaust system and save the flange nuts.
2. On FLSTC, FLSTN, FLSTF, and FXSTSC, remove the right floorboard. Remove the two floorboard mounting bracket bolts leaving the third in place but loosen and rotate mount down out of the way, See Figure 1. This will make installation of exhaust and heatshields possible.
3. On models FLSTN, FLSTF, and FXSTD, remove the stock upper exhaust mounting bar.
4. Using a #50 Torx driver, remove the three mounting bolts, and set the exhaust mounting bar aside. (Two of the bolts are visible; removing the right hand passenger foot peg will allow access to the third bolt.) Reinstall the foot peg using the 3/8”-16 x 2-1/2” bolt and the supplied short spacer. Some models will use the 1/2"-20 x 3" bolt and long spacer for the foot peg.
5. Install the exhaust mount bracket on the motorcycle using the (2) supplied 3/8” x 3/4" bolts. See Figure 2.
6. Remove the flanges and retaining rings from the stock headpipes. Remove the supplied front and rear headpipes from box and install stock flanges and retaining rings onto headpipes.
7. Install the front and rear headpipes on the motorcycle using the stock flange nuts but **DO NOT TIGHTEN**. Make sure the headpipes are parallel with each other.
8. Remove the muffler assembly from the box and slide one supplied clamp #27-61MSC onto each slotted muffler inlet tube. Refer to Figure 3A for proper alignment of clamps.
9. Slide the muffler assembly onto the headpipes by tapping on the headpipes with your hand as you push the muffler forward making sure the assembly slides as far forward as possible. Secure the muffler assembly to the exhaust mount bracket using the (2) supplied 5/16”-18 bolts but **DO NOT TIGHTEN**.
10. Tighten the following in order, exhaust mount bracket to the frame, headpipe flanges to the motor (slowly tighten opposing nuts), muffler assembly to the exhaust mount bracket, and then the muffler clamps. (NOTE: If the muffler clamps are slid to far up the muffler or past the slots, the clamps will not tighten properly).

** 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.*

13. Unscrew the HS-24 (smaller) hose clamps and feed the tail end of the clamp through the clips on the inside of the heatshields. The screw end of the hose clamp should be accessible for tightening but not visible when the heatshields are mounted to the pipes, see Figure 3B.
14. To install the front heatshield spread the hose clamps apart to make it easier to snap them over the headpipe. Snug the heatshield clamps but do not tighten. Install the rear heatshield the same way as the front heatshield.
15. Unscrew the HS-32 (larger) hose clamp and feed the tail end through the clip on the inside of the bikini heatshield. NOTE: orientate hose clamp so the hex head is towards the inside and facing the ground. Snap the bikini heatshield in place onto the muffler collar and over both headpipe heatshields. Adjust front and rear headpipe heatshields fore and aft to align properly with bikini heatshield. There should be no gap between muffler and bikini heatshield when installed, Fig. 4.
16. Tighten the hose clamps on the headpipe heatshields followed by the hose clamp for the bikini heatshield.
17. Rotate the floorboard mount back into place and retighten bolts to factory specifications. Reinstall the right floorboard with its original hardware.
18. Make sure all the hardware (brackets, headpipes, heatshields, mufflers and baffles) has been tightened appropriately and cleaned before starting your motorcycle.

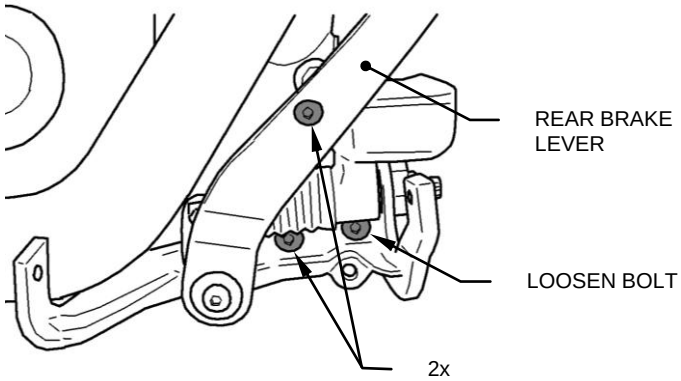

FIGURE 1

IMPORTANT: Your motorcycle is equipped with fuel injection; it is recommended that you install a Cobra Fi2000® Digital Fuel Processor with your Cobra exhaust system. **Part #692-1605 for 1986-2005 models, and #692-1604 for 2006 models**. Cobra is not responsible for the performance of any other fuel management system used with Cobra exhaust systems.

To clean your black exhaust system use a liquid based soap detergent, such as dishwashing soap applied with a soft cloth and rinse with clean water. Note: Avoid abrasive cleaning methods such as granular or dry cleansers, simple green, scotch-brite or steel wool pads. Abrasives may breach the coating and shorten life.

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.

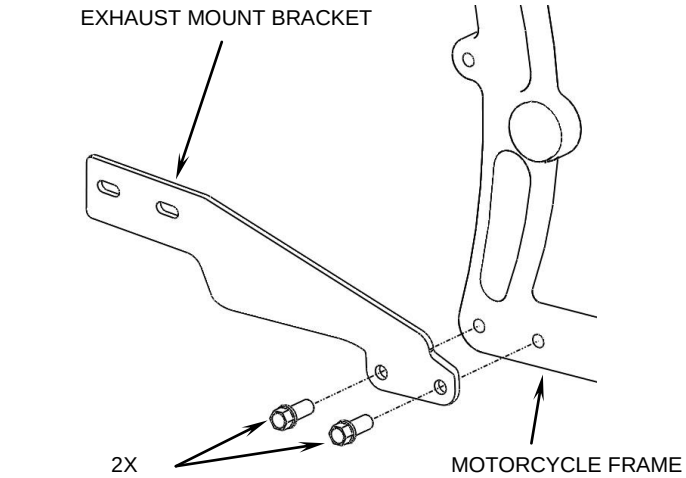

FIGURE 2

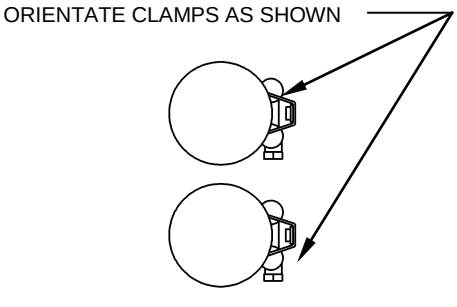

FIGURE 3A

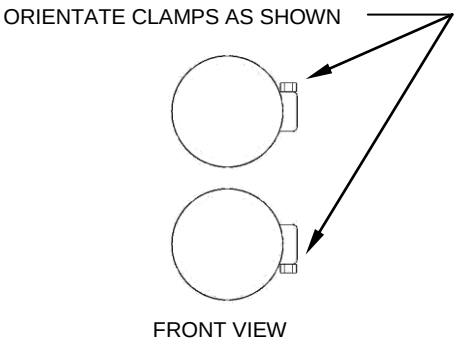

FIGURE 3B

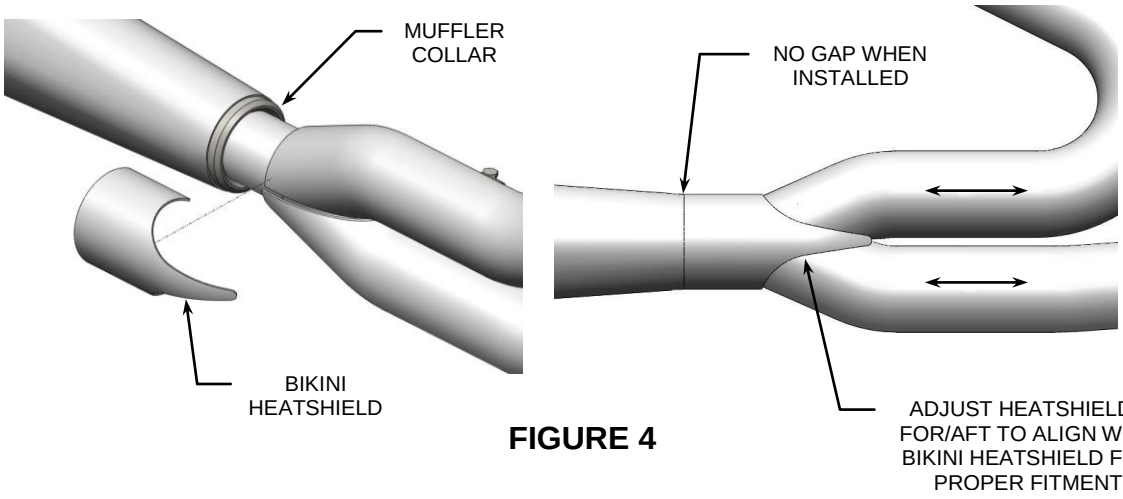

FIGURE 4