

Items Supplied >

- 2 – FRONT & REAR HEADPIPE AND HEATSHIELDS
- 1 – BRACKET, PWDR-CTD REAR HEADPIPE SUPPORT
- 6 – CLAMP, HOSE HS-24
- 1 – CLAMP, 27-59 MSC WITH M6 X 45 mm BOLT
- 2 – SPACER, .875" O.D. X .550" I.D. X .187" LONG
BLACK POWDERCOATED

Application(s) >

HARLEY:	
FLHR (S)	2007 & 2008
FLHRC	2007 & 2008
FLHX	2007 & 2008
FLTR	2007 & 2008
FLHT	2007 & 2008
FLHTC	2007 & 2008
FLHTCU	2007 & 2008

Instruction Manual >

6251

Page 1 of 3

WE RECOMMEND THE USE OF THE APPROPRIATE FI2000® DIGITAL FUEL-INJECTION TUNER. PRIOR TO INSTALLATION, MAKE SURE THE STOCK HEADPIPE GASKETS ARE IN GOOD CONDITION, IF THERE IS ANY DOUBTS ABOUT THEIR CONDITION REPLACE THEM.

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

1. Remove both left and right saddlebags and set them aside.
2. Remove the right side floorboard from the frame and set aside.
3. Unplug the O₂ sensors on front and rear headpipes from motorcycle wire harnesses.
4. Remove the stock exhaust system. It may be necessary to lubricate the slip joints of the exhaust with WD-40 or similar lubricant to aid in disassembly. The stock muffler slide hangers may be **left** in place in the rubber mounts for later reinstallation of the mufflers.
5. Remove the stock rear headpipe support-mounting bracket by removing the two starter mounting bolts, this bracket will not be reused. Note: Use caution when removing the bolts so that any tools used do not come in contact with the positive post on the starter. Install the Cobra supplied, exhaust support-mounting bracket, see Figure 1.
6. Remove the stock exhaust flanges, retaining rings and O₂ sensors from the stock headpipes and headpipe support clamp from the front headpipe. Remove the new front headpipe from packaging and install the stock flange, retaining rings and O₂ sensor on to the pipe.
7. On the front headpipe slide the stock headpipe support clamp over it. Install the front headpipe on the motorcycle using the stock flange nuts to secure it to the exhaust port studs, but **do not tighten** at this time. Slide the headpipe support clamp forward on the headpipe and over the stock exhaust mount on the right side engine case, make sure the clamp's rectangular hole is on top and the flat part of the clamp is downward, see Figure 2. Install the carriage bolt and nut to secure the tube clamp but **do not tighten** at this time.
8. Reinstall the muffler onto the front headpipe using one muffler slip clamp. Reinsert two stock 5/16-inch bolts into rear muffler mount, tighten to factory torque specs, **do not tighten** front muffler slip clamp at this time. (NOTE: On some models equipped with saddlebags the bag rail may need to be adjusted outward to allow proper clearance between muffler body and swing arm / axle nut.)
9. Tighten front headpipe flange nuts then headpipe support clamp to factory torque specifications.
10. Remove front heatshield and hose clamps from packaging. Unscrew the hose clamps and feed the tail end of the clamps through the clips on the inside of the heatshield from the bottom, so the screws are facing toward the bottom and accessible with a screw driver once the heatshield is installed. Install the heatshield over the front headpipe. (Hint: Spread the hose clamps apart slightly to make it easier to slide them over the muffler assembly and headpipes.) Align heatshield with headpipe and snug clamps but **do not tighten**.

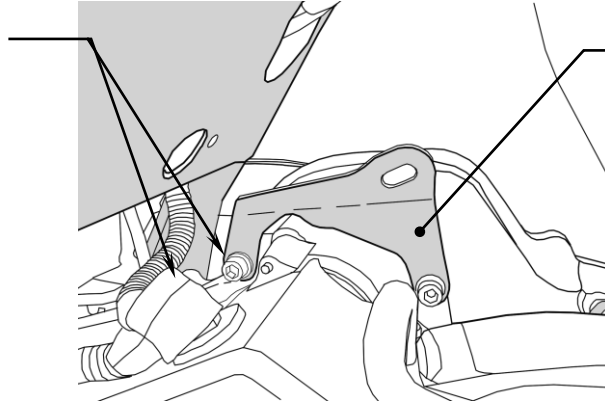
*** Cobra® recommends you always wear a helmet while riding. Please never operate your motorcycle while under the influence of alcohol and/or drugs. Enjoy the new look of your motorcycle and please ride safely.**

11. Now slide muffler forward or rearward to align rear of heatshield to front of muffler, there should be minimal gap, once aligned tighten front muffler slip clamp to headpipe. (NOTE: If the muffler clamp is slid to far up the muffler or past the slots, the clamp will not tighten properly.) Reconnect the O₂ sensor back into the wire harness. Tighten front heatshield hose clamps.
12. Remove left side passenger floorboard and mount to ease installation of rear headpipe.
13. If your motorcycle is equipped with a charcoal canister locate the rubber hose under the left side of the seat near the rear cylinder head. For better access remove left side cover. Disconnect the hard plastic hose from the rubber hose. Remove the plastic clip below the large hole in the frame and reroute the plastic hose behind the frame and back out through the large hole. Reconnect the plastic hose with the rubber hose, be sure the plastic hose does not chaff on the frame, see Figure 3.
14. Remove rear headpipe and heatshield assembly from packaging. Install the stock flange, retaining ring and O₂ sensor onto the headpipe.
15. Now from left side of motorcycle install front of rear headpipe between rear cylinder and frame. Ease pipe onto exhaust flange studs and rotate rear of headpipe downward towards rear of motorcycle to where it will be mounted with the muffler.
16. From right side of motorcycle make sure headpipe is properly seated into rear cylinder exhaust outlet. Install the stock flange nuts removed earlier, snug but **do not tighten**.
17. Install left side muffler onto rear headpipe and install two stock 5/16-inch bolts onto rear muffler slide mount and tighten.
18. Locate the T-bolt clamp on underside of rear headpipe near rear headpipe support bracket which was previously installed, see Figure 4. Now slide this T-bolt clamp towards the outside of the engine. With the T-bolt clamp in this position locate the stock L-shaped support bracket with 5/16 inch stud. Slide tang of L-bracket into T-bolt clamp so that the tang locates between the headpipe and inside of clamp, see Figure 4. Now slide the bracket and T-bolt clamp together towards the headpipe support bracket and insert 5/16 Stud into slotted hole. Start 5/16 inch nut from rightside of motorcycle, **do not tighten** nut at this time.
19. Now from the left side of the motorcycle, sight the left exhaust muffler to the rightside muffler and align the left so it is parallel with the right side. Once the left muffler is parallel with the right align the front of the muffler with the rear heatshield and tighten slip clamp at the front of the muffler. (**Note: the front of the muffler may need to be raised and held in position by another person, while the slip clamp is being tightened.**)
20. Tighten the flange bolts on the rear headpipe to factory specifications. Next tighten the 5/16 inch nut on the rear headpipe support mount. Tighten the T-bolt clamp also at this time until it firmly seats on the tang of L-bracket and headpipe see Figure 4. Be sure the gap between the rear heatshield and front of the muffler is minimal and tighten the remaining hose clamps securing the heatshield.
21. Reconnect the O₂ sensor back into the wire harness.
22. Reinstall left side passenger floorboard and mount. Reinstall the right side rider floorboard and mount by inserting the two supplied black spacers between the floorboard mount and frame then tighten the bolts to factory specifications. Reinstall the saddlebags and any other previously removed items. Tighten to factory specifications.
23. Make sure all the hardware (brackets, headpipes, heatshields, mufflers and baffles), has been tightened appropriately and cleaned before starting your motorcycle.

IMPORTANT: If your motorcycle is equipped with fuel injection it is recommended that you install a Cobra Fi2000[®] Digital Fuel Processor with your Cobra exhaust system, (Cobra Part#: 692-1608CL for 2007 Dresser, 692-1612CL for 2008 Dresser.)

Before starting your engine remove all fingerprints from chrome with a quality wax or chrome polish. Failure to do so can cause discoloration.

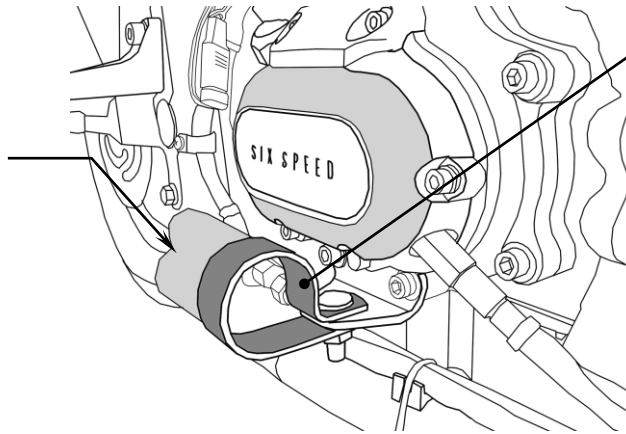
NOTE: USE CAUTION WHEN REMOVING AND INSTALLING STARTER BOLTS, AVOID CONTACT BETWEEN TOOLS AND POSITIVE STARTER POST



REAR HEADPIPE SUPPORT BRACKET BOLTED IN PLACE USING STOCK HARDWARE

FIGURE 1.

FRONT HEADPIPE OMITTED FOR CLARITY OF BRACKET INSTALLATION



HEADPIPE SUPPORT CLAMP INSTALLED AROUND TRUE-DUAL FRONT HEADPIPE AND SECURED TO STOCK CASE MOUNT

FIGURE 2.

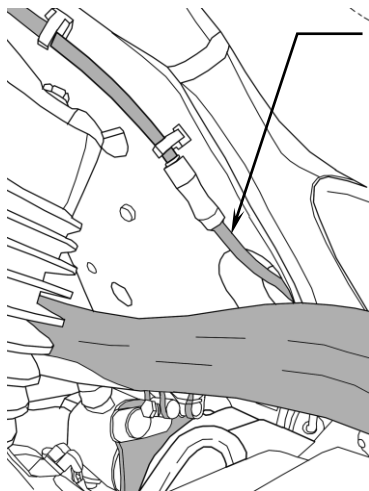


FIGURE 3.

CHARCOAL CANISTER PLASTIC HOSE REROUTED THROUGH LARGE HOLE IN FRAME BULKHEAD FOR BETTER CLEARANCE TO EXHAUST HEATSHIELD

TANG OF L-BRACKET BETWEEN HEADPIPE AND T-BOLT CLAMP

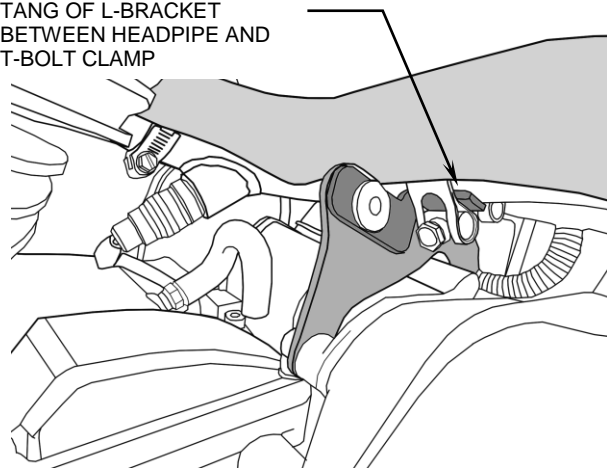


FIGURE 4.

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.