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<ul> <li>1 - FRONT HEADPIPE AND HEATSHIELD</li> <li>1 - REAR HEADPIPE AND HEATSHIELD</li> <li>1 - CROSSOVER PIPE ASSEMBLY AND LEFTSIDE HEATSHIELD</li> <li>1 - BRACKET, FRONT HEADPIPE SUPPORT</li> <li>1 - BRACKET, CROSSOVER PIPE SUPPORT</li> <li>1 - RIGHT MUFFLER</li> <li>1 - LEFT MUFFLER</li> <li>1 - FLOORBOARD MOUNT SPACER PLATE</li> <li>1 - BRACKET, STARLES CONDERS OF DEATS</li> </ul>	HARLE FLHR FLHRC
1 – CLAMP, FRONT HEADPIPE SUPPORT 9 – CLAMP, HOSE HS-24 2 – CLAMP, HOSE HS-28 1 – 3/8" NYLOCK NUT 4 – CLAMP, 27-61 MSC 4 - 1/4-20 X 3/8 BUTTON HEAD BOLTS 1 – THICK 3/8" WASHER 2 - FISHTAIL TIPS 1 – THIN 3/8" WASHER 1 – 3/8" X 1" CARRIAGE BOLT	FLHX/S FLTR/U FLHTC FLHTC FLHTK

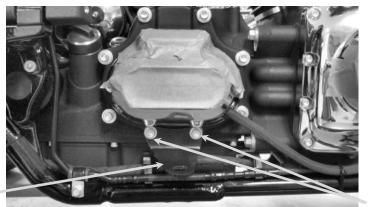
Application(s) >	
HARLEY:	
FLHR	2010-16
FLHRC	2010-13
FLHX/S	2010-16
FLTR/U/X	2010-13
FLHTC	2010-13
FLHTCU	2010-16
FLHTK	2010-15

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PRIOR TO INSTALLATION, MAKE SURE YOUR STOCK HEADPIPE GASKETS ARE IN GOOD CONDITION. 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 saddle bags, right side cover, and right front floorboard from the frame.
- 2. Unplug the  $O_2$  sensors on the front and rear headpipes from the motorcycle wire harness.
- 3. Remove the stock exhaust system being careful not to damage the headpipe gaskets. If the headpipe gaskets are in good condition they do not need to be removed from the cylinders. Remove and save the flanges, nuts, retaining rings and O<sub>2</sub> sensors from the stock exhaust. Label the O<sub>2</sub> sensors front and rear to ensure they will be installed on the proper headpipe.
- 4. Remove the stock exhaust mount bracket.
- 5. Install the supplied headpipe support bracket using the stock bolts. See **FIGURE 1**. Tighten the bolts to factory specifications.



COBRA HEADPIPE SUPPORT BRACKET

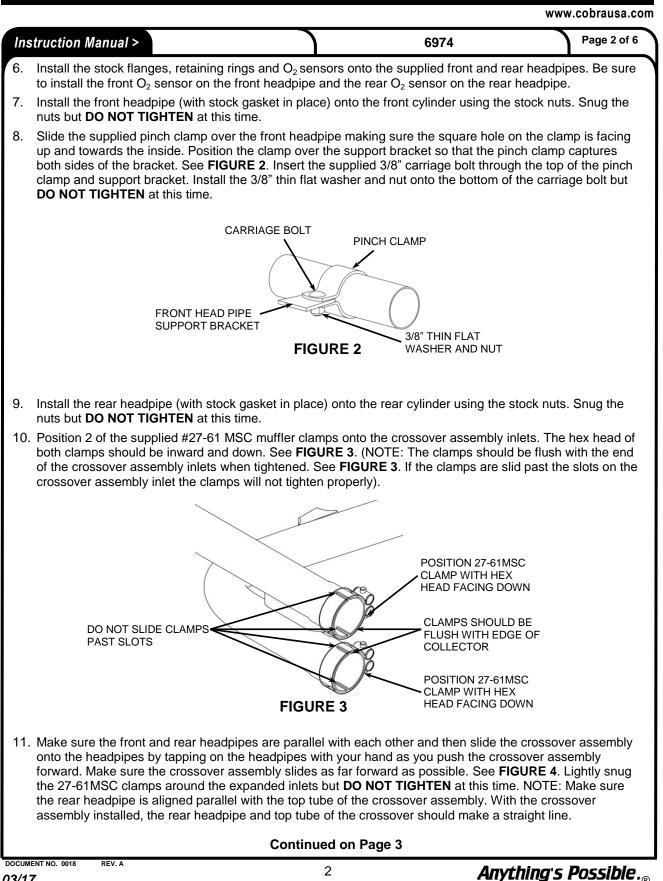
**FIGURE 1** 

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STOCK BOLTS



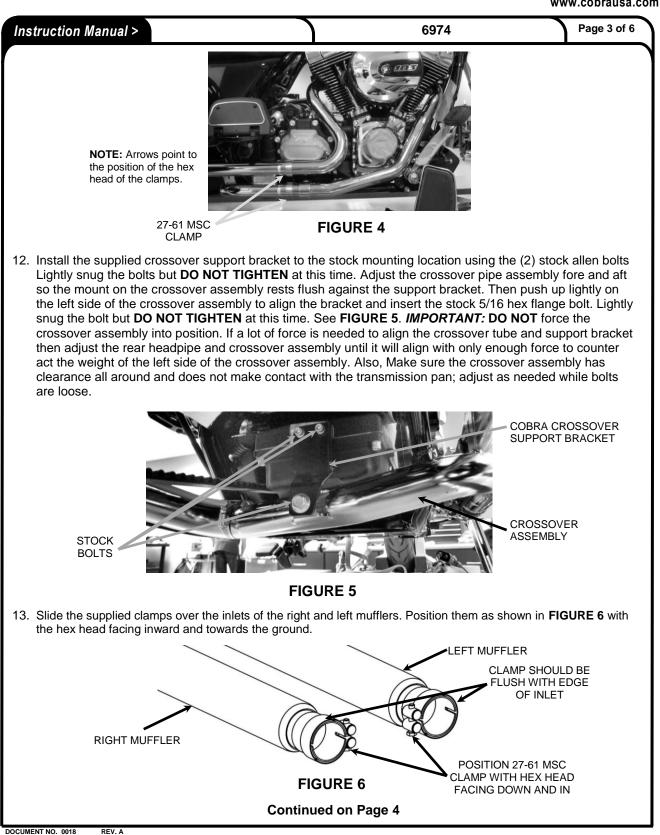




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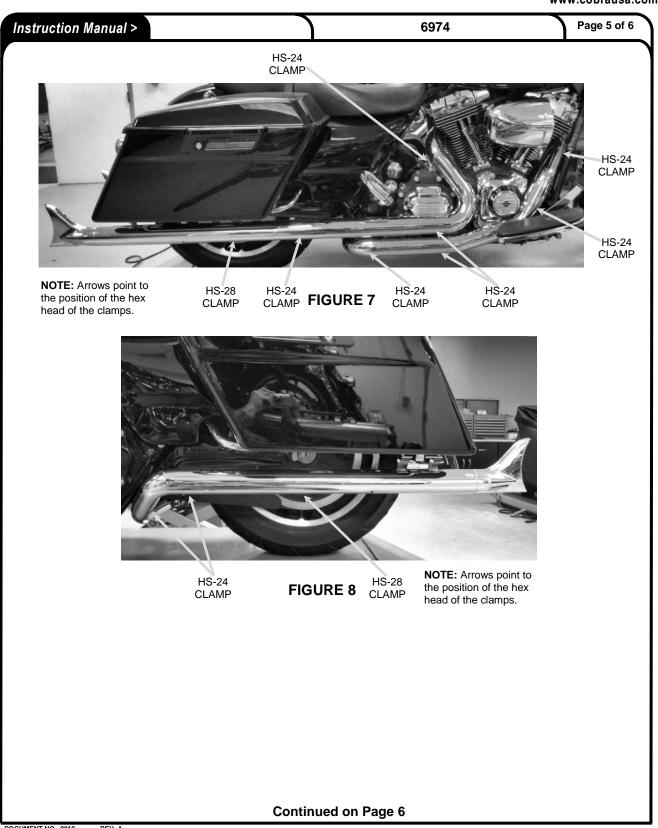


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14.	Install the mufflers onto the crossover pipe assembly and insert the (2) stock 5/16-inch bolts into each rear muffler mount the same as stock. <b>Do not tighten</b> clamps or bolts at this time.
15.	Make sure the headpipes, crossover assembly, and mufflers are aligned properly and tighten the (2) allen bolts on the crossover support bracket and the 5/16 hex bolt. See <b>FIGURE 5</b> .
16.	Then fully tighten the flange nuts on the exhaust port studs, followed by the 3/8" carriage bolt and nut on the front headpipe support clamp. See <b>FIGURE 2</b> .
17.	Next fully tighten the (2) 27-61MSC clamps on the crossover assembly. (NOTE: The clamps should be flush with the end of the crossover assembly inlets when tightened. See <b>FIGURE 3</b> . If the clamps are slid past the slots on the crossover assembly inlet the clamps will not tighten properly).
18.	From the rear, rotate the mufflers as needed so they are level with the ground and parallel with each other. Then tighten the clamps and the mount bolts. (NOTE: The clamps should be flush with the end of the crossover assembly inlets when tightened. See <b>FIGURE 6</b> . If the clamps are slid past the slots on the crossover assembly inlet the clamps will not tighten properly).
19.	Plug the O <sub>2</sub> sensors back into the motorcycle wire harness and route the wires away from the exhaust in the same manner as stock.
20.	Remove the heatshields 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 so the screws are accessible with a screwdriver once the heatshield is installed. The larger HS-28 clamps go to the rear of the heatshield where they will rest on the muffler body. The smaller HS-24 clamps go on the front of the heatshields where they will rest on the headpipes. See <b>FIGURE 7 &amp; 8</b> for proper positioning of the clamps on the heatshields. ( <b>NOTE: The arrows point to the positioning of the heatshields are mounted to the pipes.</b> )
21.	Install the right rear heatshield over the rear headpipe by first sliding the rear portion of the heatshield over the muffler. Continue to slide the heatshield forward while pushing the front of the heatshield gently between the motor and frame. (Hint: Spread the hose clamps apart slightly to make it easier to slide them over the headpipes.) Make sure the muffler clamps do not interfere with the heatshields and are aligned as shown in <b>FIGURE 6</b> . Align the heatshield with the headpipe and snug the clamps but <b>DO NOT TIGHTEN</b> at this time. See <b>FIGURE 7</b> .
22.	Install the right front heatshield over the right front headpipe. (Hint: Spread the hose clamps apart slightly to make it easier to slide them over the headpipes.) Align the heatshield with the headpipe and snug the clamps but <b>DO NOT TIGHTEN</b> at this time. See <b>FIGURE 7</b> .
23.	Install the left rear heatshield over the left rear muffler and crossover headpipe by first sliding the rear portion of the heatshield over the muffler. Continue to slide the heatshield forward while pushing the front of the heatshield gently into position. (Hint: Spread the hose clamps apart slightly to make it easier to slide them over the headpipes.) Make sure the muffler clamp does not interfere with the heatshield and are aligned as shown in <b>FIGURE 8</b> . Align the heatshield with the muffler and crossover headpipe and snug the clamps but <b>DO NOT TIGHTEN</b> at this time.
	Align the threaded holes in the side of the fishtail tip with the holes in the muffler heatshield and slide it into the rear of the heatshield and muffler. (NOTE: If it is difficult to slide the tip into the heatshield loosen the clamps on the muffler heatshield. Failure to do this may cause damage to the tips.) Fasten the tip with (2) of the supplied ¼-20 button head screws making sure there is no gap between the tip and muffler heatshield. Do this for both left and right sides.
	Make sure the rear of both fishtails tips are even on the back with each other.
26.	Once the tips and heatshields are aligned properly tighten all hose clamps securing the heatshields.
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**OBRA**® 23801 E. La Palma Ave., Yorba Linda, Ca 92887 Ph. 714.692.8180, Fax. 714.692.5016 www.cobrausa.com Page 6 of 6 6974 Instruction Manual > 27. Insert the supplied floorboard spacer plate between the rear floorboard mount and the frame, then align the dowel pin and reinstall the allen bolt. Tighten to factory specifications. See FIGURE 9. 28. Remove the allen bolt from the right front floorboard mount. Place the supplied thick washer between the front floorboard mount and the frame. Reinstall and tighten the allen bolt to factory specifications. See FIGURE 9. **INSTALL THICK 3/8"** FLAT WASHER ON FRONT MOUNT **INSTALL SPACER FIGURE 9** PLATE ON REAR MOUNT 29. Reinstall any other previously removed items. Tighten to factory specifications. 30. Make sure all the hardware (brackets, headpipes, heatshields, mufflers and floorboards) have been tightened appropriately. 31. IMPORTANT: Before starting your engine remove all fingerprints from chrome with a quality wax or chrome polish. Failure to do so can cause chrome discoloration. Due to fluctuations in fuel delivery settings, timing, etc., Cobra Engineering does not warrant against chrome discoloration. **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. DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. OCUMENT NO 0018 REV A