



# FXR Shortshot Exhaust System

Part #17207

Congratulations, you have purchased the finest exhaust system available for your motorcycle. Your VANCE & HINES exhaust system is designed and crafted for maximum performance, a perfect fit, a great sound and unbeatable style! Please follow the installation instructions below and if you have any questions, feel free to call our technical help line (562) 926-5291.

## REMOVING THE STOCK EXHAUST SYSTEM

1. Loosen the heat shield clamps on both front and rear head pipes.
2. Loosen the crossover pipe clamp, located between the front and rear head pipe.
3. Remove the two mounting nuts from each head pipe, located at the cylinder head. Save the nuts for re-use.
4. Remove the bolt from the front and rear head pipe clamps. On the front pipe, the clamp is located below the cam cover. On the rear pipe, it is half way between the cylinder head and the muffler.
5. Remove the entire exhaust system and set it aside.
6. Carefully remove the flanges and circlips from the stock exhaust system using snapring pliers.  
*Note: If circlips look bent or twisted replace them with new circlips.*
7. Remove the rear head pipe clamp bracket from the transmission housing and save the bolts for re-use.
8. Remove the bolt below the left side of the clutch release cover. Refer to figure 1. (Save the bolt for mounting the #278 bracket to the transmission housing).

## INSTALLING YOUR NEW VANCE & HINES EXHAUST SYSTEM

1. Check the stock exhaust gaskets to be sure they are in good shape. If you have any doubts as to their condition, replace them.
2. Attach the muffler mounting bracket (stamped #278) to the transmission housing, using the two stock bolts, the 5/16"x 3/4" allen bolt and 5/16" flat washer (supplied). Refer to figure 1. *Note: The two 5/16" x 7/8" flange bolts (supplied) must be inserted from the rear of the #278 bracket before it is tightened to the transmission housing. Refer to figure 2.*
3. Tighten the three mounting bracket bolts.
4. Carefully spread the tube clamp(supplied), just enough to slip it over the exhaust port end of the front head pipe.
5. Install the circlips and flanges from the stock system on to both of the new head pipes.
6. Slide one dog bone shaped nut plate (supplied) under the bracket that is welded to the backside of the front head pipe. Attach the flat bracket (stamped #279) to the head pipe using one 5/16"x 5/8" flange bolt (supplied) *do not tighten at this time*. Refer to figure 2.
7. Install the front head pipe using the stock nuts, *do not tighten at this time*.
8. Align the tube clamp with the bracket under the cam cover. Be sure the bracket is sandwiched between the tube clamp like the original. Install the 3/8"x 1" bolt with washer through the top of

the clamp followed by another washer and a lock nut on the bottom (hardware supplied), *do not tighten at this time*.

9. Position the #279 bracket over the #278 bracket. Thread the 5/16"x 7/8" flange bolt into the dog bone nut plate on the backside of the front head pipe. *Do not tighten at this time.*
10. Slide one dog bone shaped nut plate (supplied) under the bracket that is welded to the backside of the rear head pipe. Install the rear head pipe using the stock nuts, *do not tighten at this time.*
11. Attach the rear head pipe to the #279 and #278 brackets with the remaining 5/16" flange bolts. Refer to figure 2.
12. Align the pipes so they are parallel when viewing from the right side of the bike. Tighten the 5/16" flange bolts on both head pipes.
13. Tighten the two nuts evenly at the exhaust port on both the front and rear head pipes.
14. Tighten the bolt on the front head pipe clamp.
15. Unscrew all of the hose clamps (supplied) until they are completely loose. Feed the tail end of the hose clamp into the clips on the inside of both heat shields. Place the heat shields over the head pipes and rotate the hose clamps so they are accessible, but not visible when mounted on the head pipes. Tighten the hose clamps evenly.
16. Be sure that the ends of the heat shield meet flush with the baffle endcaps at the end of the pipes. Adjust the baffle endcaps and/or heat shields so they match flush where the two parts meet. A small amount of adjustment can be made by loosening the baffle bolt on the backside of the head pipes and move the baffle in or out.
17. **Be sure to tighten all hardware before starting your motorcycle.**

## **RE-JETTING INSTRUCTIONS**

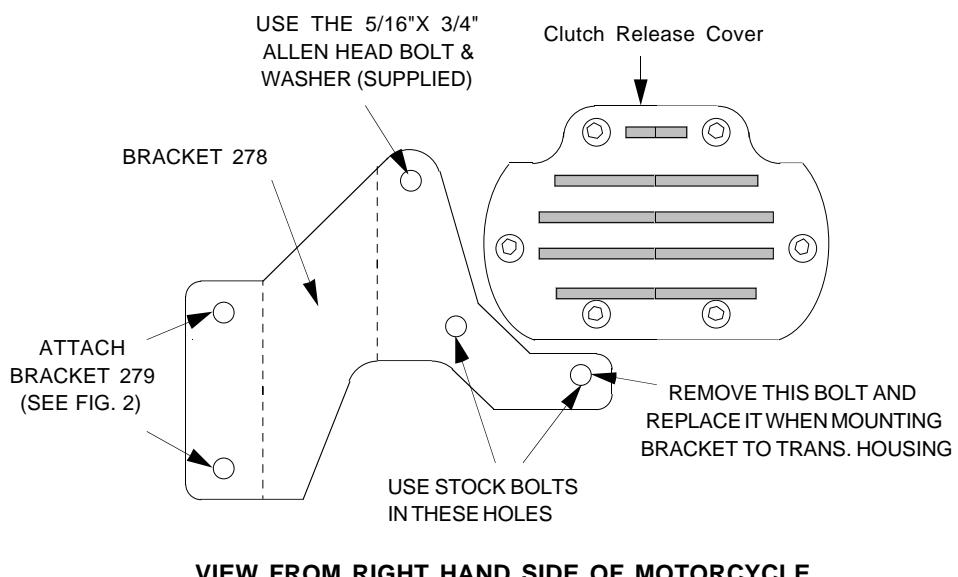
Re-jetting the carburetors will result in realizing the "full" potential of this performance exhaust system. Vance & Hines offers jet kits for most applications.

## **PLEASE NOTE:**

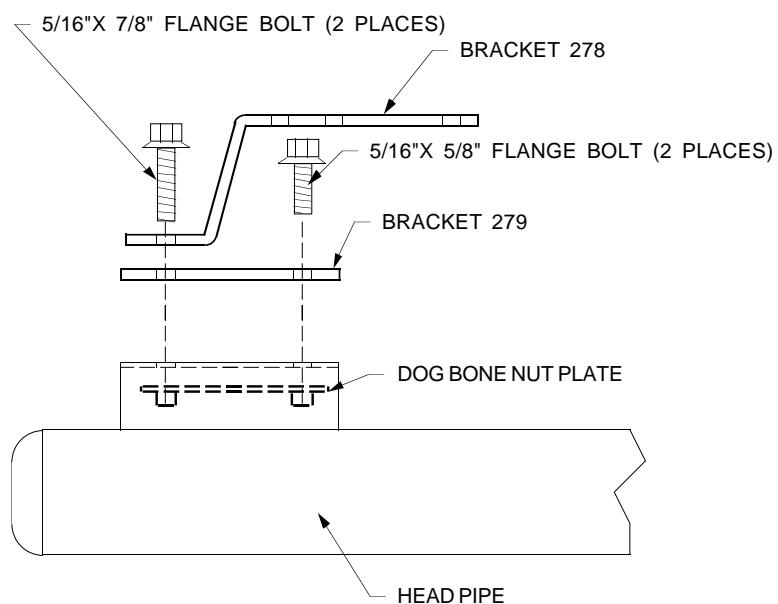
Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, (center stand, oil filter, oil pan etc.) ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation instructions.

## **WARNING!**

**VANCE & HINES DOES NOT WARRANTY ANY CHROME  
PRODUCTS AGAINST DISCOLORATION.**



**FIGURE 1**



**FIGURE 2**

**VIEW FROM TOP OF MOTORCYCLE**