

HARLEY-DAVIDSON® SPORTSTER**SHORT SYSTEM INSTALLATION INSTRUCTIONS****PART# 5040-5140**

Thank you for purchasing **RUSH**. We strive for excellence and take pride in making the best exhaust for your Harley-Davidson®. We take our full systems to an all new level in the exhaust industry! Our full systems come standard with ceramic coating on both the inside and outside of the head pipe, providing superior heat reduction and quality looks for years to come.

EXHAUST SYSTEM REMOVAL

READ ALL INSTRUCTIONS BEFORE BEGINNING

1. Remove left side cover to access MAXI Fuse, remove fuse to disconnect power.
2. Remove seat to access rear O² sensor connector. Unplug rear sensor and feed through the frame so that it is free from the motorcycle.
3. Find and unplug the front O² sensor from wire harness. Remove zip strip and feed wire through; making it free from motorcycle. **NOTE: Pay attention to wire routing for reinstallation.**
4. Loosen heat shield clamps on both front and rear head pipes.
5. Remove the two head pipe mounting nuts from the flange at the heads.
6. Remove clamp bolts that mount rear head pipe to the belt drive cover bracket.
7. Remove the two bolts from each muffler body where they attach to the stock mounting bracket. Carefully remove the exhaust system from the motorcycle and set aside.
8. On models equipped with O² sensors carefully remove O² sensors from stock head pipes with a 7/8" wrench and save for reuse on your RUSH system.
9. Remove the drive belt cover and remove the bracket off the rear cover bolt; bracket will not be reused.
10. Using a T-30 torx socket, loosen the brake rod at the rear eyelet.
11. Remove the three mounting bolts and washers attaching the exhaust mounting bracket.
12. If equipped with mid-controls, remove right side foot peg before installing your new RUSH system.
13. Using snap ring pliers, remove flanges and circlips from stock exhaust. **NOTE: Replace circlips if damaged or bent. Check condition of exhaust port gaskets and replace with H-D P/N 65324-83A.**

BEFORE INSTALLATION PLEASE READ ALL INSTRUCTIONS

1. Remove header and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Using a felt tip pen, mark outside edge of each heat shield to show location of the mounting clips that hose clamps will loop through. **See Figure 3.**
2. Attach BRKT-019 to engine case using stock hardware. Apply LOCTITE to all bolts. Tighten to factory specifications. **See Figure 1.**
3. Reinstall brake rod eyelet with LOCTITE and tighten to factory specifications.
4. Reinstall belt cover using LOCTITE and torque to factory specifications.
5. Install circlips and flanges on new head pipes. **See Figure 2.**
6. Apply anti-seize on O² sensors before installation, then install. **NOTE: Be careful not to get any anti-seize on the head of the sensor as this may cause the sensor to malfunction.**
7. Install the front head pipe to the head using stock flange nuts.
8. Slide BRKT-008 inside bracket that is on back side of the system. Attach system to mounting brackets using two BOLT #11 flange head bolts per each head pipe. Do not tighten. **See Figure 5.**
9. Install rear head pipe the same way.
10. Tighten exhaust port flange nuts. **See Figure 2.**
11. Tighten the four BOLT #11 flange head bolts on the transmission mounting bracket while keeping pipes parallel.
12. Install front heat shield with CLAMP-001 loosely. Keep clamp screw head accessible. Repeat with rear heat shield.
13. Adjust heat shields while keeping them parallel and tighten. **See Figure 4.**
14. Check for clearance between exhaust components and motorcycle accessories prone to heat damage.
15. Plug O² sensors into wire harness and install ZIP STRIPS.
16. Recheck all nuts and bolts on complete system; make sure they are tight.
17. After Installation is done and before starting your motorcycle, clean your new exhaust thoroughly with a soft cloth and a cleaning solvent that doesn't leave any residue. Any oily residue, like fingerprints, will burn into the chrome.

REFERENCE PICTURES

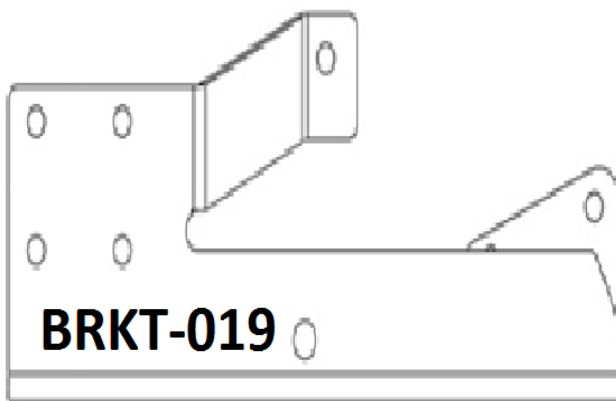


FIGURE 1

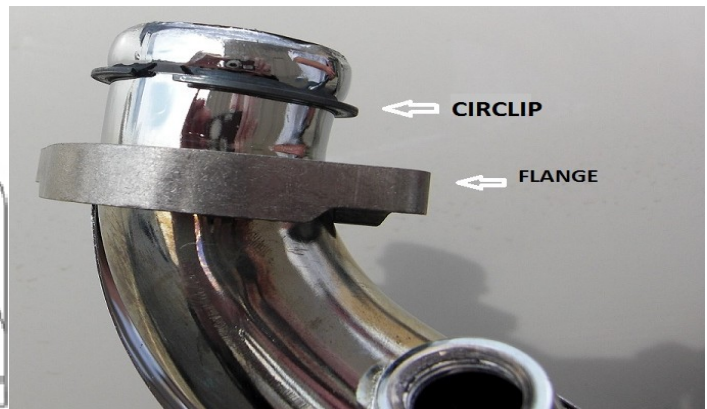


FIGURE 2



FIGURE 3



FIGURE 4



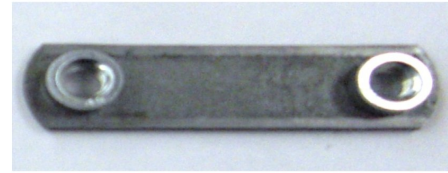
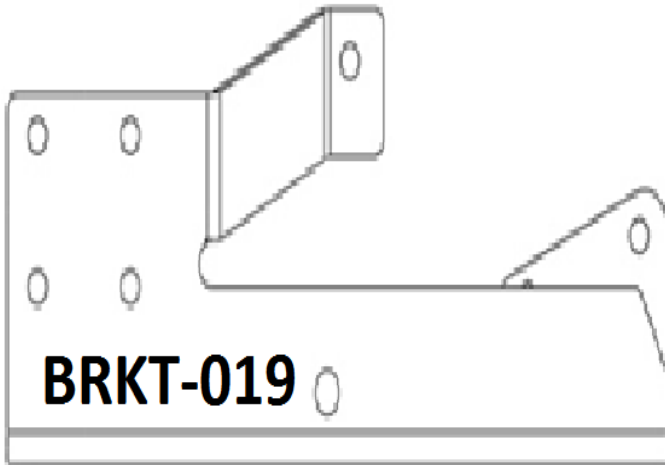
FIGURE 5

TOOLS REQUIRED

1. Flat blade screwdriver
2. 5/16" nut driver
3. 1/2", 9/16", 7/8" and 14mm combination wrenches
4. 1/4", 3/16" and 5/16" allen wrenches & T30 torx socket
5. Snap ring pliers
6. Ft./Lb. torque wrench
7. 3/8" ratchet & extensions
8. 1/2" socket and 1/2", 9/16" & 5/8" deep well sockets

PACKING LIST

RUSH RACING PRODUCTS EXHAUST
SYSTEM INSTALLATION P/N 5040-5140



BOLT #11



PARTS LISTING

- | | |
|---------------|---------------|
| 4 - BOLT #11 | 1 - BRKT-019 |
| 2 - BRKT-008 | 5 - CLAMP-001 |
| 1 - LOCTITE | |
| 2 - ZIP STRIP | |