# INSTALLATION INSTRUCTIONS
## 4.00" HP-PLUS® PERFORMANCE MUFFLERS FOR 2017 - 2025 FLHT, FLHX, FLHR, FLTR & TOURING MODELS

**ATTENTION INSTALLER** (if other than owner):
Please forward this instruction sheet and the warranty card to the purchaser of this product. These instructions also contain valuable information necessary to the end user.

**INTRODUCTION:**
These instructions describe the procedure for properly installing KHROME WERKS® 4.50" Performance Mufflers on 2017 Harley-Davidson FLHT, FLHX, FLHR, FLTR models. Review instructions carefully before beginning, as they contain important information. Please retain for future reference.

Particularly important information is distinguished in these instructions by the following notations:

**NOTE:** A NOTE provides key information to make procedures easier or clearer.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle or accessories.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury or death to a motorcycle operator or person inspecting or repairing the motorcycle.

**TOOLS REQUIRED:**

1 – ½" combination wrench
1 – 9/16" combination wrench

Supplies: New muffler clamps

**PROCEDURE:**

1. Remove saddlebags from bike.

2. Note position of muffler clamp mounting bolt on each muffler. Loosen muffler clamps on each side and slide forward.

**NOTE:** To ensure sealing integrity of muffler clamps, and prevent the possibility of leakage, Harley-Davidson recommends that the muffler clamp assemblies be discarded and replaced each time they are removed.

CAUTION: If muffler clamps are being reused, apply anti-seize compound to the threads to ensure proper clamping.

3. Remove two 5/16" hex head screws and washers from rear muffler brackets on each side and save. Slide old mufflers off header pipes. Remove muffler clamps. Discard old mufflers.

4. Install new clamps on the KW mufflers in the same position as the original clamps.

**NOTE:** The right-side muffler has an indentation for axle clearance on the left side of the muffler and a larger inlet. **The left-side muffler has and indentation for the axle clearance on the right side of the muffler.**

5. Slide mufflers onto header pipes in the same position as original mufflers. The rear brackets on the mufflers should be positioned halfway between the rubber mounts on the saddlebag/muffler supports and rotated on the header pipes so they are evenly aligned in the rubber mount slot when viewed from the rear. If muffler-to-header fit is loose, use silicone to seal. Install 5/16" hex head screws and washers removed in step 3 and tighten to 96-144 in-lbs.

6. Position and orient the muffler clamps in the original position, making sure the clamps cover the rear edge of the clamping slots, and tighten to 40-50 ft-lbs. or until they seal.

NOTE: Make sure the muffler body does not contact the head pipes heat shields.

CAUTION: When tightening the clamps ensure the mufflers do not rotate left or right on the header pipes. The right-side muffler may contact the axle if not properly aligned in the rubber mount.

7. Before operating motorcycle, clean pipes and mufflers with soap and water or window cleaner. Dry thoroughly. Also check all hardware to be sure it is tight.

8. Reinstall saddlebags.

9. Optional Baffle Inserts P/N 202713P: Remove the Tips if equipped. Install the inserts with the supplied fasteners. Recalibration may be necessary.

WARNING: Check all mounting hardware to be sure it is tight before and after first operation of motorcycle. Periodically, check tightness of all mounting hardware.

CAUTION: Carefully read the enclosed Important Notice sheet. Recalibration may be required. Before recalibrating consider installing a high performance air filter element or air cleaner for best performance.

**USE AND CARE:** Wash your accessories with the same care you use when washing your motorcycle. Use mild soap and water. DO NOT use abrasive chemicals or cleaners, or high pressure washers.

CAUTION: Cover ends of mufflers when washing motorcycle. Mufflers may internally corrode if saturated with water and allowed to sit. (No warranty.) Avoid starting and stopping engine without riding sufficient miles to eliminate corrosive moisture from the exhaust system.