



## EXHAUST SYSTEM # HD00054 TRUE DUALS (2-2)

Congratulations, you have acquired the finest aftermarket performance exhaust system available for your motorcycle. Your FREEDOM PERFORMANCE exhaust system was designed to perform fit and give the optimum sound and style at a very affordable price

Please follow the installation instructions and please do not hesitate to call us for any technical questions at (310) 324-0415

### REMOVING THE STOCK EXHAUST SYSTEM

1. If equipped, loosen the floor boards to gain clearance for exhaust removal and installation.
2. Loosen heat shield clamps on both the front and rear head pipes.
3. If equipped, loosen crossover pipe clamp, located between front and rear head pipes.
4. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
5. Remove the bolts that attach mufflers to the frame.
6. Remove the complete exhaust system and set aside. Assistance may be required.
7. Remove stock mounting bars and brackets.
8. On models equipped with upper mounting bar attached at swing arm pivot bolt, go to step 9. If upper mounting bar is attached with two torx bolts (not swing arm bolt) go to step 10.
9. Remove right side 1/4"-20 bolt which holds lower fender in place. The fender will flex outwards allowing removal of right passenger foot peg bolt. Park the motorcycle on its side stand. Position a floor jack under right hand frame tube of the motorcycle below swing arm pivot bolt. Raise jack just enough to take the weight off swing arm pivot bolt. Remove swing arm pivot bolt and stock upper mounting bar. Replace swing arm pivot bolt and torque to 120 ft. lbs. Reinstall passenger foot peg using 1/2"-20 x 3" bolt and 1 5/8" long spacer (not supplied). Reinstall 1/4"-20 fender bolt.
10. Using a T50 torx driver, remove the three mounting bolts and mounting bar. (Two of the bolts are visible, the third also attaches right hand passenger foot peg pivot and is accessed by removing foot peg. Reinstall foot peg using 3/8"x 2-1/2" Allen bolt and 3/4" long spacer (not supplied).

### FREEDOM PERFORMANCE EXHAUST SYSTEM INSTALLATION

1. Remove header and heat shields from protective foam packaging. Place them in a non-abrasive surface such as a blanket or carpet. Slide header into heat shields tail end first, NOTE: with a marker, mark the location of the heat shield clips at the edge of the heat shield. This procedure will visualize the location of the clips when the head pipe is placed over the heat shield.
2. Install each hose clamp by feeding tail end of clamps into heat shield clips. Take note of location of clamp screw head direction. (Screw head must be accessible when system is installed on motorcycle for adjustment purposes).

3. Attach mounting brackets on motorcycle MBK-S110 (left) and MBK-S111 (right) using 3/8-16 x 3/4 flange bolts. (Supplied) (If equipped, plastic plugs must be removed). On FLSTN models the passenger foot peg should be removed.
  4. Install exhaust port flanges and circlips (from stock system) onto head pipes. (FREEDOM PERFORMANCE recommends replacement of exhaust port gaskets, Harley part number: 17048-98. If circlips are bent or damaged replace them.
  5. Install front head pipe first into exhaust ports and proceed to install rear pipe. **NOTE: DO NOT TIGHTEN AT THIS TIME YET.** (*Some assistance may be required*)
  6. Take and slide one barrel band clamp over the notched end of the left side pipe, and slide pipe over rear head pipe.
  7. Slide one barrel band clamp on each muffler over the notched end.
  8. Install right and left muffler onto tail end of both rear and left head pipe. Install 3/8-16 x 1.000" carriage bolts and aligns mufflers with heat shields.
  9. Tighten muffler mounting bolts first and rear exhaust port flange nuts. Tighten barrel band clamps and front exhaust port flange nuts. Align smallest heat shield over rear head pipe and tighten. Tighten all heat shield clamps
- NOTE: make sure to put some type of locking glue on screws to hold end caps or Shark tail TM tips to prevent part from falling off. Loctite® (red) is recommended.**
10. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.

When installing a new chrome exhaust system, please make sure that your hands are clean and free of oil. Right after installation is done, in detail, clean your new exhaust system with a soft cloth (chrome wax, glass cleaner, alcohol, or ammonia before starting the engine.

**Note: Be sure to tighten all hardware before starting your engine. Retighten after the first 100 miles.**

**Re-jetting the carburetor is strongly recommended by FREEDOM PERFORMANCE**

*At freedom performance Inc. attempts have been made to provide enhanced concerning Clearances. However, due to some designs and space boundaries, ground and cornering clearance may not be improved and in some cases may even be reduced.*

**WARNING!**  
**FREEDOM PERFORMANCE DOES NOT WARRANTY ANY  
CHROME PRODUCTS AGAINST DISCOLORATION.**

Some accessories are available for your new FREEDOM PERFORMANCE exhaust system, visit [www.freedomperform.com](http://www.freedomperform.com) for more information or call 310-324-0415



*FEEL THE POWER OF FREEDOM*



(Shown with optional Shark-Tail tips)

PART NUMBER AC00003 SHARK TAIL TM TIPS



(Shown with Slashed End-Tips)

PART NUMBER AC00001 SLASH END CAPS 30° ANGLE