



Feel the Power of Freedom

## EXHAUST SYSTEM # HD00247 DECLARATION (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. Underneath the oil tank on the right hand side, find the rear oxygen sensor connector. Now, unplug sensor at the end of the wire through the frame releasing it from the motorcycle. NOTE: make sure to remember the correct way for wiring routing for reinstallation.
2. Unlock the plastic cover above the rectifier right in front of the frame of the motorcycle to get access to the front oxygen sensor connector. Unplug sensor from harness. Now remove cable tie which is holding sensor wire to the motorcycle frame and feed it the end of the wire through releasing it from the motorcycle.
3. If equipped, loosen the floor boards to gain clearance for exhaust removal and installation.
4. Loosen heat shield clamps on both the front and rear head pipes.
5. If equipped, loosen crossover pipe clamp, located between front and rear head pipes.
6. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
7. Remove the bolts that attach mufflers to the mounting bracket.
8. Remove the complete exhaust system and set aside. Assistance may be required.
9. Remove oxygen sensors using a 7/8" or 22mm wrench, carefully remove the O<sup>2</sup> sensors from the stock head pipes and save for re-use with the new Freedom Performance exhaust system.
10. Now remove exhaust port flanges and circlips from the stock exhaust system using snapping pliers. It is best to wear safety glasses when removing retaining rings to prevent eye injuries.
11. Remove stock mounting bracket and set it aside.
12. Lastly remove the two lower mounting studs from the frame.

Note: use good and safe practices when removing and installing your new exhaust system to prevent injuries that includes but is not limited to such safety glasses and gloves. When installing make sure gloves are not abrasive or damage may occur like scratching parts. Always secure motorcycle before any work is done.

# FREEDOM PERFORMANCE EXHAUST SYSTEM INSTALLATION

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1. Remove exhaust system from protective packaging it has been pre-assembled for easy installation. Place them in a non-abrasive surface such as a blanket or carpet. By doing this you can avoid scratching the parts in the in installation process. We recommend using painters tape to cover parts and accessories on areas where damage can occur during installation.
2. Install exhaust port flanges and circlips (from stock system) onto head pipes. (FREEDOM PERFORMANCE recommends replacement of exhaust port gaskets if damaged or worn out, Harley part number: 17048-98 or 65324-83A
3. Install oxygen sensor (from stock) apply a small amount of anti-seize compound to the threads of the O2 sensors and install them into the new head pipes. NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor functionality.
4. Attach mounting bracket MBK-S140-F2 using a 9/16 socket or wrench to motorcycle frame using 3/8-16 x 3/4" flange bolts (supplied)
5. Attach two carriage bolts 3/8-16 x 3/4" to bracket slots
6. Install front head pipe first into exhaust ports by first carefully sliding the channel bracket welded on the head pipe to the head of the carriage bolt (on the mounting bracket) to engage and function as support as the header is aligned with the exhaust port. Install port flange nuts
7. **NOTE: DO NOT TIGHTEN AT THIS TIME YET.**
8. Repeat step 6 with the rear header.
9. Align both pipes and tighten to the mounting bracket first then to the exhaust port flanges.
10. when have finished the alignment of the heat shields, tight hose clamps using a 5/16" nut driver or a flat screw driver.
11. If equipped, reinstall front passenger floor board using
12. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
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**Note: Be sure to tighten all hardware before starting your engine. Retighten after the first 100 miles.**

**Re-mapping is strongly recommended by FREEDOM PERFORMANCE**

*Every attempt has been made to provide improved cornering Clearance. However, due to design and space boundaries on some motorcycle models, 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.**

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