



**EXHAUST SYSTEM # MK0001
SHARP CURVE RADIUS (2-2)**

Feel the Power of Freedom

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 read and follow the installation instructions and certainly do not hesitate to call us for any technical questions at (310) 324-0415 or visit us at: www.freedomperform.com

PACKAGING LIST: MK0001-HW

| | | | | | |
|----------------------|---|--|---|------------------------|---|
| K105-F1 FRONT HEADER | 1 | K105-F2 FRONT SHIELD | 1 | MK105-F5 FRONT MUFFLER | 1 |
| K106-F1 REAR HEADER | 1 | K106-F2 REAR SHIELD | 1 | MK106-F5 REAR MUFFLER | 1 |
| MBK-K105-F4 BRACKET | 1 | T-BOLT CLAMP # 62 | 2 | MBK-M115-F7 BACK PLATE | 2 |
| WORM CLAMP # 28 | 4 | WORM CLAMP # 24 | 2 | WORM CLAMP # 20 | 1 |
| MK00001-INS | 1 | 5/16"-18 X 5/8" ZINC PLATED SERRATED FLANGE BOLT | 4 | | |

WARNING: When installing you new exhaust system always refer to owner's manual for torque specifications and follow safety precautions, make sure motorcycle is properly secure to prevent it from falling and that is not hot to prevent burning.



STOCK EXHAUST SYSTEM REMOVAL



Fig 1.1 nut and bolt

Fig 1.2 loose clamp

Fig 1.3 remove bolts (2)

Fig 1.4 remove (4 bolts)

1. When removing or installing accessories there is always a chance to scratch motorcycle components, use painters tape on areas prone to scratches during the installation such frame, chrome or painted parts.
2. It is recommended to use some type of penetrating lubricant to all nuts and bolts to be removed for an easier removal.
3. Remove bolt and nut holding the rear muffler canister to the mounting bracket using a 12mm socket or wrench. see (fig 1.1)
4. Using a 12mm socket or wrench, loosen crossover clamp, apply some type of penetrating oil to ease the removal. see (fig 1.2)
5. Remove (4) acorn nuts holding the header pipes to engine port using a 12mm socket and save nuts for re-use. It may be necessary to loosen heat shields for a better access to the acorn nuts.
6. Remove the two bolts holding the front canister to the mounting bracket using a 12mm socket or wrench. see (fig 1.3)
7. Remove entire stock exhaust system and place it aside, some assistance may be necessary.
8. Remove two bracket attached to the frame as seen in (fig. 4) use a 12mm socket or wrench (4 bolts) remove brackets and save two bolts for re-use with the new mounting bracket.

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.



Fig 2.1 install bracket



Fig 2.2 insert back plate



Fig 2.3 flush to bracket



Fig 2.4 cover shield

FREEDOM PERFORMANCE EXHAUST SYSTEM INSTALLATION

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. Attach mounting bracket MBK-K105-F4 using a socket or wrench to motorcycle frame. Use bolts previously removed from stock. **(see figure 2.1)**
3. Install front header assembly pipe first into exhaust port by first and carefully aligning the bracket welded on the inner muffler to the mounting bracket using two 5/16-18 flange serrated bolts. and a MBK-M115-F7 back plate bracket. Note: It may be necessary to rotate the inner muffler to align it to the holes on the mounting bracket, insert the back plate bracket inside the bracket welded to the muffler making sure the nuts face towards the muffler. Install acorn port flange nuts all the way but, **DO NOT TIGHTEN AT THIS TIME YET.** (see fig 2.2 & 2.3)
4. **NOTE: the muffler in this system is engaged to the header, loosen the band clamp to allow adjustment forward, backwards and rotation until the nuts welded on the back plate bracket align with the slots in the mounting bracket and make sure the front of the welded bracket to the muffler is flush to the front of the mounting bracket.**
5. Repeat step 3 with the rear header assembly. **Note:** we recommend for you to cover the heat shield on top, right below where the rear pipe system is to be installed with a non-abrasive rag or painters tape to prevent scratches during installation of rear pipe. **(see fig 2.4)**
6. Align both pipes, make sure the space between front and rear curved sections have an even gap and tighten to the mounting bracket bolts first using a 1/2" wrench then tighten barrel band clamps. (These are the clamps that hold the inner muffler to the headers) now tighten the exhaust port flanges.
7. Align heat shields and tighten clamps using a 5/16" nut driver.
8. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
9. Clean exhaust system with some chrome cleaner and remove painters tape (if used during installation) before turning on engine. Failure to follow this procedure may result in damages to the chrome finish as oils burn out leaving permanent marks.

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

There are accessories available for this exhaust system such as quiet baffles, contact us for more details.

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 OR BLACK FINISH PRODUCTS AGAINST DISCOLORATION.

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.