

**EXHAUST SYSTEM # MK00012
COMBAT (2-1)**

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 (951)-898-4733

PACKAGING LIST: MK00012-HW

PART #	DESCRIPTION	QTY	PART #	DESCRIPTION	QTY
K125-F1	FRONT HEAD PIPE	1	MBK-K130-F4	SYSTEM BRACKET	1
K126-F1	REAR HEAD PIPE	1	HWB0008	3/8"-16X3/4" CARRIAGE BOLT ZINC PLATED	2
K125-F2	FRONT HEAT SHIELD	1	HWB0051	1/4"-20X1/2" BOTTON HEAD SCREW ZINC PLATED	6
K126-F2	REAR HEAT SHIELD SECTION # 1	1	HWN0004	3/8"-16 FLANGED TRI-LOCK NUT ZINC PLATED	2
K127-F2	REAR HEAT SHIELD SECTION # 2	1	HWW0003	1/4" SPLIT WASHER ZINC PLATED	6
MK115-F5	MEGAPHONE MUFFLER ASSY	1	HWC0002	HOSE CLAMP # 24 STAINLESS STEEL	8
A221ECA-F10	SYSTEM END CAP	1	HWC0010	BARREL CLAMP # 62 STAINLESS STEEL	2
A145-LCB-F8	SYSTEM BAFFLE	1	MK00012-INS	INSTRUCTIONS MANUAL	1

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)

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.

1. It is recommended to use some type of penetrating lubricant to all nuts and bolts to be removed for an easier removal.
2. Remove bolt and nut holding the rear muffler canister to the mounting bracket using a 12mm socket or wrench. see (fig 1.1)
3. Using a 12mm socket or wrench, loosen crossover clamp, apply some type of penetrating oil to ease the removal. see (fig 1.2)
4. 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.
5. Remove the two bolts holding the front canister to the mounting bracket using a 12mm socket or wrench. see (fig 1.3)
6. Remove entire stock exhaust system and place it aside, some assistance may be necessary.
7. 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.

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-K130-F4** using a M12 socket or wrench to motorcycle frame. Use bolts previously removed from stock. (**see figure 2.1**)
3. Install front header first into exhaust port **K125-F1** using stock acorn port flange nuts all the way but, **DO NOT TIGHTEN AT THIS TIME YET.** You will need a M12 socket, make sure gasket is in place and in good working conditions. (**see figure 2.2**)
4. Repeat step 3 with the rear header, **K126-F1** using stock acorn nuts and a M12 socket. (**see figure 2.3**)
5. Install a barrel band clamp in front of the slotted sections of the muffler assembly. Make sure, screw faces up on the shorter pipe and on the longer pipe faces downwards. (**see figure 2.4**)
6. Install muffler assembly. Some assistance may be required. Once the clamps have been installed over the pipes proceed to install the muffler assembly by inserting both pipes inside the muffler collector. Then, align the bracket welded on the muffler to the mounting bracket on the frame. Use the two carriage bolts and nuts provided in the kit 3/8"-16 x 3/4" carriage bolt and 3/8"-16 flange lock nuts. (**See figure 2.5**) make sure the edge of both brackets are flush to each other.
7. Align headers with muffler and tighten the two nuts holding the muffler to the bracket using a 3/16" wrench.
8. Tighten head port acorn nuts (X4) using a M12 socket; refer to owner's manual for torque specifications.
9. Tighten barrel band clamps using a M5 hex key wrench.
10. Using painters tape, mark the center of the welded heat shield clip as shown on the picture. (**See figure 2.6**) this will guide you when installing the hose clamps and prevent scratches to the components. The direction of the arrow indicates the direction of hose clamp insertion. (**see figure 2.7**)
11. Install front heat shield first **K125-F2**, placed shield over the front pipe and secure it with the hose clamps provided in the kit.
12. Install rear heat shield **K127-F2** this is the rear shield closer to the muffler. secure it hose clamps as shown (**see fig 2.8**)
13. Lastly install the rear heat shield **K126-F2** the one closer to the rear engine exhaust port. (**see fig 2.9**) NOTE: this last shield, sits over a inner ring welded inside the rear shield (**see fig 2.9**)
14. Align heat shields and tighten clamps using a 5/16" nut driver, remove tape.
15. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
16. 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.

Installation pictures



Figure 2.1 install bracket use stock screws and a M12 socket or wrench



Figure 2.2 install front header use stock acorn nuts and M12 socket



Figure 2.3 install rear header use stock acorn nuts and M12 socket



Figure 2.4 Install barrel clamps top screw faces up bottom faces down



Figure 2.5 install muffler assembly use carriage bolts and flange nuts



Figure 2.6 install painter tape and mark center as shown direction of arrow indicates hose clamp insertion

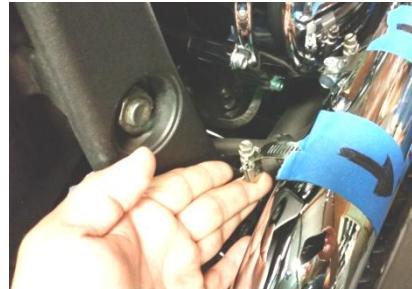


Figure 2.7 insert clamps as shown



Figure 2.8 install front shield first then rear shield as shown



Figure 2.9 install rear shield section # 1 note: this shield sits on top of ring welded inside the other shield they must be flush

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