



HARDWARE



BRACKETS

PACKER #: \_\_\_\_\_

**KAWASAKI VAQUERO 1700/NOMAD/  
VOYAGER 4" COMPLETE TRUE-  
DUAL SYSTEM**

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 or visit us at: [www.freedomperformexhaust.com](http://www.freedomperformexhaust.com)

**PACKAGING LIST: MK00008-HW (\*) = ASSEMBLED**

PART #	DESCRIPTION	QTY	PART #	DESCRIPTION	QTY	PART #	DESCRIPTION	QTY
K140-F1	FRONT PIPE	1	K140-F2	FRONT SHIELD*	1	MK135-F5	RIGHT MUFFLER*	1
K141-F1	REAR PIPE	1	K141-F2	REAR SHIELD*	1	MK136-F5	LEFT MUFFLER*	1
K142-F1	CORSOVER PIPE	1	K142-F2	LEFT SHIELD*	1	HWN0004	3/8"-16 TRI-LOCK NUT ZINC	1
HWC0002	WORM CLAMP # 24	9	MBK-K110-F4	MOUNTING BRACKET	1	HWW0013	M8 SPLIT WASHER ZINC	2
A115PC-F7	P-CLAMP 2.000"	1	HWB0009	3/8"-16X1.000" CARRIAGE BOLT ZINC LATED	1	HWB0026	M8X1.25X25MM HEX BOLT	2
HWC0008	T-BOLT CLAMP # 64	3	HWB0001	1/4"-20X3/8" BUTTON HEAD BOLT ZINC *	2	MK00008-HW	HARDWARE BOX	1
A325ECA-F9	SYSTEM END CAP*	2	HWB0051	1/4"-20X1/2" BUTTON HEAD BOLT ZINC *	4	MK00008-INS	INTRUCTIONS MANUAL	1
A155-LCB-F8	SYSTEM BAFFLE*	2	A155-CN	CONE *	2			

**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**

- 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.
- It is recommended to use some type of penetrating lubricant to all nuts and bolts to be removed for an easier removal.
- Open saddle bags and remove the bolts holding each bag using a M10 wrench. **(fig 1.1)**
- Loosen right side slip-on muffle clamp holding muffler inlet to the head pipe using s M10 wrench or socket. **(fig 1.2)**
- Using an M8 wrench loosen and remove heat shield covering front section of right side muffler and crossover header section.
- Using an M10 wrench loosen clamp holding left side muffler underneath the motorcycle which connects to the right side crossover pipe. **(fig 1.3)**
- Remove left side muffler by removing the two bolts holding it from the top brackets using M10mm wrench, be careful as you remove the last bolt it will fall down some assistance may be required. **(fig 1.4)**
- Remove right side muffler Using a M10 wrench, remove the two bolts holding it from top and pull backwards to disengage from header.
- Remove right side floorboard. Under the floorboard locate and remove the safety retaining ring from the pin and remove the spring as well as the floorboard. **(fig 1.5)** If you need extra space to remove the headers system and installation of the new system loosen the floorboard assembly using a M14 socket or wrench.
- Remove rear heat shield first using a M10 wrench or Phillips screw driver loosen clamps and slide shield down and clamps up to disengage from header'
- repeat heat shield removal with the rest of the shields.
- Using a 12mm socket remove acorn nuts holding the header system to the cylinder heads (two on each header) now proceed to remove the header section carefully..

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 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-K110-F4** as shown. **(fig 2.1)**
3. Install front pipe assembly first, this part is already preassembled for easy installation, use two acorn nuts (from stock) to hold the header from the two studs on the engine port. Drive nuts all the way but do not tighten at this time. **(fig 2.2)**
4. Install left side pipe, insert a P-clamp and a T-Bolt clamp in the slotted section as shown in **(fig 2.3)** From the left side of the motorcycle, install header as shown in **(fig 2.4)** slide the left pipe onto the front pipe, engage P-Clamp with mounting bracket and insert a carriage bolt 3/8"-16x3/4 and a 3/8"-16 lock nut holding both the P-Clamp and the bracket sandwiched together. see **(fig 2.5)**
5. Install left side muffler. Grab left side muffler MK111-CT-F5 and slide onto the nose of the muffler a T-Bolt # 64 with the bolt facing down as shown in **(fig 2.6)** now insert the muffler onto the header section and hold it with the stock bolts removed from the stock mufflers do not tighten at this time yet.
6. Install rear pipe assembly, repeat step 3 with the rear header system see **(fig 2.7)**
7. Install right side muffler, repeat step 5 with MK110-CT-F5 muffler assembly.
8. Align left and right mufflers so that the end caps are aligned, tighten T-Bolt clamps with a 7/16" socket or wrench and trim the ends of the bolt if you wish.
9. Make sure the front pipe did not move and that it is still about 1-3/4" deep inside the crossover pipe.
10. Tighten T-Bolt holding crossover pipe with a 7/16" wrench.
11. With a 9/16" wrench, tighten carriage flange nut and carriage bolt where the P-Clamp was installed.
12. Using a M12 socket tighten acorn nuts on the head ports (2 on each head pipe)
13. Align heat shields and tighten with a 5/16" nut driver.
14. Place floorboard back in place and tighten.
15. Place saddle bags back in place as it was before the installation.
16. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
17. 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.



Fig 1.1



Figure 1.2



Figure 1.3

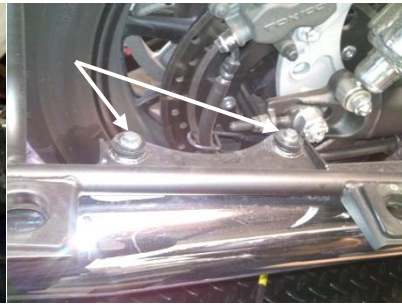


Figure 2.4



Figure 1.5



Figure 2.1

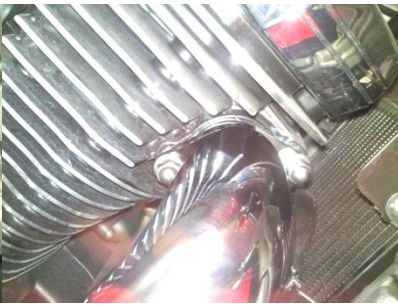


Figure 2.2



Figure 2.3



Figure 2.4



Figure 2.5



Figure 2.6



Figure 2.7

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