



## EXHAUST SYSTEM # MY00125 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 follow the installation instructions and please do not hesitate to call us for any technical questions at (310) 324-0415

PART NUMBER	DESCRIPTION	QTY	PART NUMBER	DESCRIPTION	QTY
YST100-F1	FRONT HEAD PIPE	1	A115-Q2-F14	M18 X 1.50 BUNG PLUG ZINC PLATED	1
YST100-F3	FRONT HEAT SHIELD	1	A114SP	0.750" X 0.156" X 1.000" ALUMINUM SPACER	2
YST101-F1	REAR HEAD PIPE	1	HWB0024	M10X1.25X120 HEX BOLT ZINC PLATED	2
YST101-F3	REAR HEAT SHIELD	1	HWB0007	5/16"-18 X 5/8" SERRTAED FLANGE BOLT ZINC PLATED	4
MYS130-F5	TWIN STANDARD RADIUS MUFFLER	1	HWC0010	BARREL CLAMP # 62	2
MBK-Y150-F4	MOUNTING BRACKET	1		PLASTIC TIE 7" LONG	1
MBK-M115-F7	BACK PLATE BRACKET	2	MY00125-HW	HARDWARE BOX	1
HWC0003	HOSE CLAMP # 28 STAINLESS STEEL	4	MY00125-INS	INSTRUCTIONS MANUAL	1
HWC0002	HOSE CLAMP # 24 STAINLESS STEEL	4			

### REMOVING THE STOCK EXHAUST SYSTEM

1. Place motorcycle on side stand. Have your owner's manual handy and refer to it as necessary.
2. Locate and remove plastic side cover where the oxygen sensor harness is located remove by pulling the pin clip outwards and set it aside. **See figure 1.1**
3. Disconnect oxygen sensor harness **See figure 1.2**
4. **NOTE:** it may be necessary to use penetrating lubricant oil on all heat shield worm clamp screws, bolts and slip joints between muffler and head pipe to ease the removal or any other accessory that may be too tight or rusted.
5. Using a 17mm socket or wrench, remove the 2 screws holding right side rider's floorboard assembly, remove floorboard assembly carefully as brake hoses are connected. Make sure not to damage, bend or crack. **See figure 1.3 & 1.4**
6. The next steps (7 & 8) will guide you to remove the entire system in one piece buy only if there is someone else helping with the installation and removal. If you are removing the system by yourself follow step (9)
7. Using a 12 mm socket, remove the two flange nuts on each header securing each header to engine port. **See figure 1.5**
8. Remove 3 head cap screws holding mounting bracket to the frame using an 8mm Allen wrench some assistance may be required as this stock system is very heavy if possible have someone hold the system while the mounting bracket screws are removed to prevent injuries or damage to motorcycle, now remove entire exhaust system. **See figure 1.6 & 1.7** if you followed steps (7 and 8) jump to step 14
9. Locate and loosen clamp holding front header to rear exhaust assembly this clamp is located in the mid section of the bike right below the big round cover.
10. Remove rear flange nuts holding header to exhaust port using a 12 socket.
11. Remove 3 head cap screws holding mounting bracket to the frame using an 8mm Allen wrench some assistance may be required.
12. Remove rear exhaust assembly first and set it aside.
13. Remove front flange nuts holding header to exhaust port using a 12 socket and set it aside.
14. Using a 7/8" or a 22mm wrench remove the oxygen sensor from head pipe. Save sensors for re-use with your new exhaust system.
15. Remove side cover on right side using a 5mm Allen wrench and set it aside. **See fig 1.1**

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.

## REEDOM 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. Remove headers, heat shields and hardware from box.
3. Install mounting bracket **MBK-Y150-F4** using an 8 mm Allen wrench and two stock bolts in the same location where the stock bracket was installed.
4. Install oxygen sensor. (if equipped) Apply a small amount of anti-seize compound to the threads of the sensor and install them into the new set of mufflers using a 7/8" or 22 mm. wrench. Be sure **not** to apply anti-seize compound on the sensor tip as may affect the sensors functionality. If not equipped with sensors use the plugs included in the hardware kit in the same way as the sensors. **See figure 2.1**
5. Install exhaust pipes. Start with the from pipe using stock acorn nuts and 12mm socket set nuts all the way but do not tighten yet, now proceed with the rear pipe. **See figure 2.2**
6. Slide a Barrel-band clamp # 60 over the nose of each inlet in the muffler assembly with the rear bolt facing up and the front facing down and make sure these clamps are to be tighten from the inside (the opposite from the shields) tighten with your hand only. **See figure 2.3**
7. Disengage Oxygen sensor harness from stock clip tabs otherwise the sensor cable will not reach the harness **See figure 2.4**
8. Slide muffler assembly onto both front and rear headers. Slide until the front edge of the welded brackets on the muffler are flush to the edge of the mounting bracket. **figure 2.5** (NOTE: if sensor is on the way loosen head port exhaust nuts a little bit so there is enough play for the pipes to be pulled outwards just enough to clear the installation of the muffler assembly,
9. Install to back plate bracket (included). Insert the back plate inside the welded bracket in the muffler assembly and secure the muffler with four 5/16"-18 serrated flange screws use a 1/2" wrench do not tighten yet. **figure 2.6**
10. Align muffler and header; tighten mounting bracket screws with the 1/2" wrench and the engine port acorn nuts with the 12mm socket. **See figure 2.7, 2.8 and 2.9**
11. Tighten barrel band claps (the ones on the nose of each muffler) using a 5mm allen wrench make sure these are not in the way of the heat shields. **See figure 2.8**
12. Connect Oxygen sensor harness and install plastic cover with the plastic rivet as it was prior to the installation. **See figure 2.9**
13. Place heat shields over their respective head pipes and carefully insert worm clamps. Do not tighten at this time. ***(it may be easier to mark the edge of the heat shield with a felt tip pen before mounting heats shields over the pipes to easy find the exact location of the clips when inserting the worm clamps) make sure the head of the screws will be accessible to tighten them once the system is in place. Small hose clamps (#24) are for the header section (#28) for the muffler section. See figure 2.10***
14. Install front heat shield first, once the shield is in place insert hose clamps do not tighten at this time yet.
15. Install rear heat shield. We recommend placing a rag (cotton or micro fiber) on top of the front shield to prevent scratches when installing the rear heat shield. This step is a bit tricky **as** one of the hose claps is too close to other accessories and is difficult to install after the shield is on place. We recommend installing the clamp before setting the shield in place. This is the second hose clamp (counting from the rear of the shield) insert the tail of one (#28) hose clamp making sure the screw will be tightened from the top and open clamp, slide the shield onto the rear muffler and engage the clamp. **See figure 2.11** now insert the rest of the clamps.
16. Reinstall right side cover using a 5mm Allen wrench.
17. Re-install right hand floorboard back in place. Using two 1" spacers and bolts provided and a 17 mm socket or wrench to clear heat shield from floorboard. **See figure 2.12**
18. Line up heat shields they should run parallel to each other. Tighten all worm clamps and hardware
19. **Note: Be sure to tighten all hardware before starting your engine. Retighten after the first 100 miles. Clean your new exhaust system before starting the motorcycle.**

### Re-mapping is 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.*

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For accessories for your new exhaust system please visit [www.freedomperform.com](http://www.freedomperform.com)  
And choose from a variety of slip-ons to complement the new look of your bike.

## WARNING

**FREEDOM PERFORMANCE DOES NOT WARRANTY ANY CHROME OR PAINTED PRODUCTS AGAINST DISCOLORATION.**



Figure 1.1



Figure 1.2



Figure 1.3



Figure 1.4



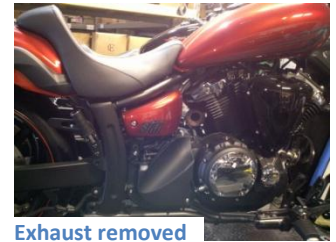
Figure 1.5



Figure 1.6



Figure 1.7



Exhaust removed



Figure 2.1

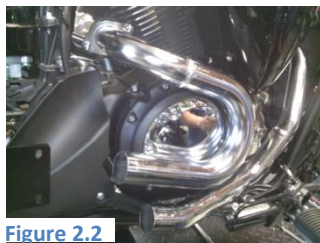


Figure 2.2



Figure 2.3



Figure 2.4



Figure 2.5

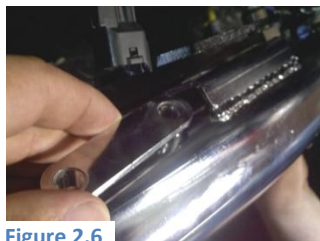


Figure 2.6



Figure 2.7



Figure 2.8



Figure 2.9



Figure 2.10



Figure 2.11



Figure 2.12

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