



# INSTALLATION INSTRUCTIONS

## TRU-DUAL | TOURING®

### MINIMUM REQUIRED TOOLS:



FLAT HEAD SCREWDRIVER



3/8", 1/2", 14mm, 7/8" or 22mm WRENCHES



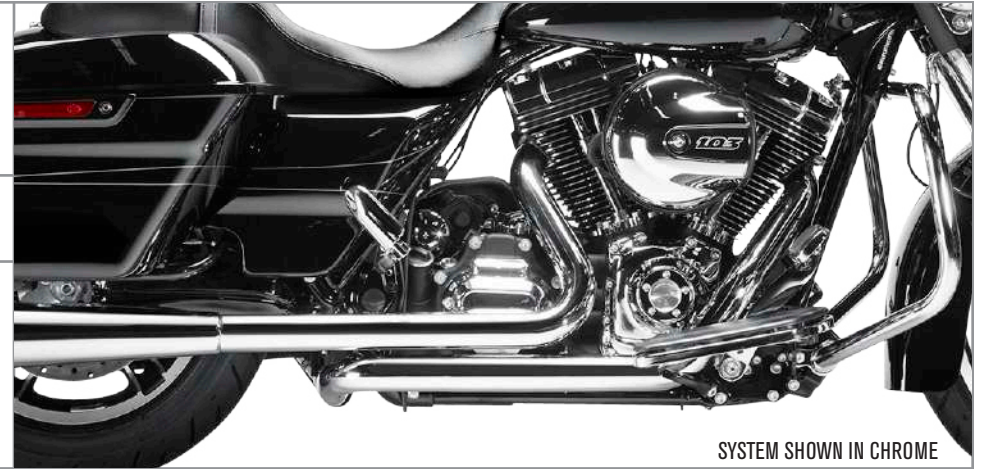
10mm, 13mm, 14mm, 15mm, 1/4", 5/16", 1/2", 9/16" SOCKETS AND RATCHET



SNAP RING PLIERS

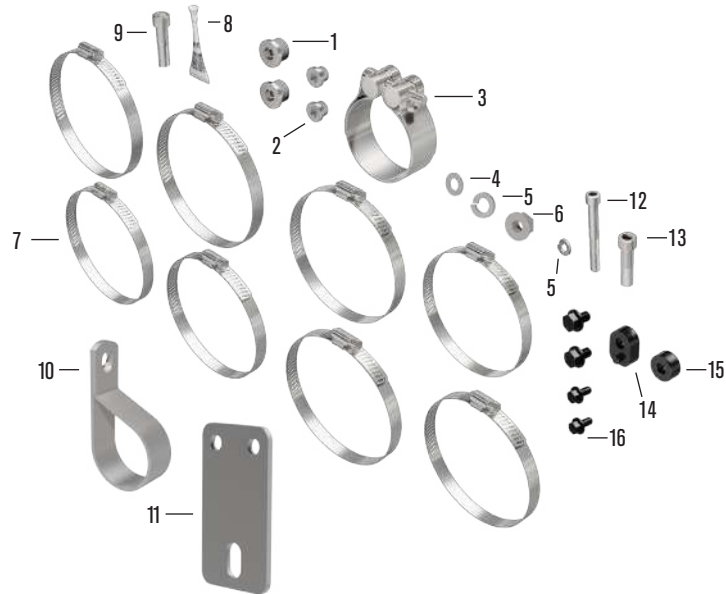


TORQUE WRENCH



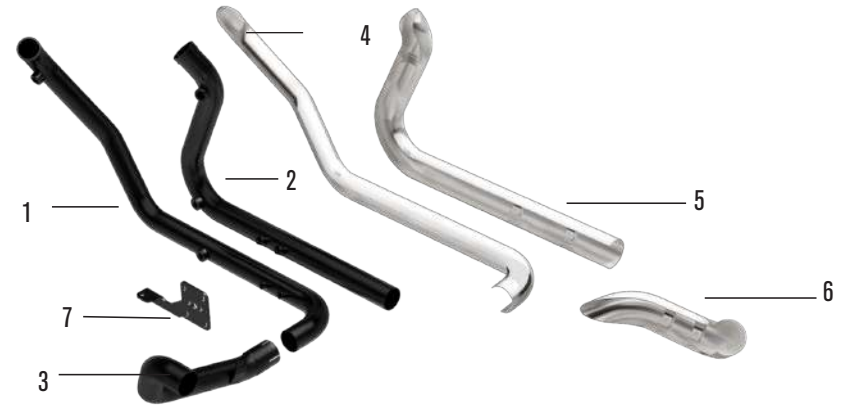
SYSTEM SHOWN IN CHROME

### INCLUDED HARDWARE:



- |                                       |                                             |                                   |
|---------------------------------------|---------------------------------------------|-----------------------------------|
| 1. (2) PLUG HEX SOCKET 02 18-1.50MM C | 7. (8) CLAMP 1.75 BAND HS SS                | 13. (1) SCREW SHCS 3/8-16 X 1.50" |
| 2. (2) PLUG HEX SOCKET 02 12-1.25MM C | 8. (1) THREADLOCKER                         | 14. (1) FLOORBOARD SPACER         |
| 3. (1) CLAMP 1.75 BAND EXHAUST SS     | 9. (1) BOLT HEX 3/8-16 X 1.00" GR 8 ZYC     | 15. (1) SPACER                    |
| 4. (1) WASHER FLAT 3/8" SAE ZINC      | 10. (1) CLAMP 1.75 P-CLAMP STYLE SS         | 16. (4) BOLT HEX 1/4 - 20 X 0.50" |
| 5. (2) WASHER SPILT LOCK 3/8"         | 11. (1) CROSS UNDER TRANSMISSION BRACKET SS |                                   |
| 6. (1) NUT HEX FLANGE 3/8-16 ZINC     | 12. (1) SCREW 3/8-16 X 3.00"                |                                   |

**CHROME** PART # 7210205  
**BLACK** PART # 7210206



- |                    |                 |                     |
|--------------------|-----------------|---------------------|
| 1. FRONT HEAD PIPE | 4. FRONT SHIELD | 7. MOUNTING BRACKET |
| 2. REAR HEAD PIPE  | 5. REAR SHEILD  |                     |
| 3. LEFT HEAD PIPE  | 6. LEFT SHEILD  |                     |



## IMPORTANT INFORMATION

1. Register your new product.
2. When installing new MagnaFlow exhaust systems, be sure your hands are clean and free of oil, lotion or similar products. After installation is completed and before starting the motorcycle, thoroughly clear the new exhaust system with a clean, soft cloth and cleaning solvent that leaves no residue. Debris, residue or fingerprints left on the system may cause damage to the finish. Damage or discoloration to finish is not covered by warranty.
3. MagnaFlow advises replacing worn or damaged gaskets.
4. Make sure there are no exhaust leaks at the junctions and connecting points of the exhaust pipes and/or mufflers, or at the cylinder.
5. Leaks due to improper installation may cause the engine to overheat. This may cause discoloration.

Maximize your motorcycles performance and efficiency by complementing your new MagnaFlow exhaust system with a fuel tuner management system and or EFI remapping. Remapping is suggested to optimize performance while reducing the possibility of damage to your motor or new exhaust system.

NOTICE: MagnaFlow makes every effort to design exhaust systems which enhance the riding experience. However, due to restraints on some models, tolerances, ground and or cornering clearance may not improve and in some cases may be reduced. Adjustments to the motorcycle not listed here may be required for proper fitment. Be sure to carefully follow all installation instructions.

**DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES.**

Some part numbers not available in California. The California Air Resources Board (CARB) does not permit the use of aftermarket emission-related part(s) that alter the performance of OEM emission-related devices unless CARB has issued an Executive Order. Check Federal, State and local laws for compliance.

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### **CALIFORNIA EMISSIONS NOTICE**

Some part numbers are not legal for sale or use in California. The California Air Resources Board (CARB) does not permit the use of aftermarket emission-related part(s) that alter the performance of OEM emission-related devices unless CARB has issued an Executive Order, other than on racing vehicles on closed courses. Check your local laws and manufacturer's information.

In California, the sale and installation of motorcycle aftermarket exhaust parts that may have the potential to impact emissions are regulated by the California Air Resources Board (CARB). The sale, installation and use of emissions related aftermarket exhaust parts on motorcycles is prohibited unless the exhaust part is either an OEM "replacement part" as defined by the state of California, or is specifically permitted for use by an Executive Order issued by CARB.

#### (1) Replacement Parts

Replacement Parts are aftermarket parts that are functionally identical to the stock OEM part they are intended to replace, and therefore do not adversely impact emissions when installed and in use. Replacement Parts are permitted for sale, installation and use on motorcycles used on or off the public highways in California. For motorcycles, these parts fall in to two categories:

### **CALIFORNIA EMISSIONS NOTICE (CONT.)**

\* No emission control - If the motorcycle's stock exhaust system does not contain any emission control components, then an aftermarket exhaust part is a Replacement Part and no EO is required.

\* Upstream emission control devise. If the motorcycle's stock exhaust system contains a catalytic converter, then an aftermarket exhaust part positioned downstream from the catalytic converter (i.e. cat-back) is a Replacement Part as long as it does not remove, replace or adversely affect any emission control equipment originally attached to the stock exhaust system.

#### (2) Executive Order Parts

All exhaust parts that incorporate or impact any emission control devise require a CARB issued Executive Order allowing the parts to be advertised, sold, offered for sale and installed in California, pursuant to specific application.



## STOCK EXHAUST REMOVAL INSTRUCTIONS

### PLEASE NOTE:

Several MagnaFlow motorcycle exhaust systems are designed to be used with O2 and non-O2 sensor applications. If your motorcycle does not come equipped with O2 sensors, simply skip any steps referring to them.

Also, make sure to retain all factory hardware and brackets as they may be used during the installation process.

1. Locate and remove the two D-ring pins inside of each saddlebag. (Figure 1)



Fig.1a



Fig.1b

2. Remove each saddlebag by carefully lifting them up and away from the motorcycle. Safely set saddlebags to the side. (Figure 2)



Fig.2

3. Locate and loosen the factory clamp at the inlet side of the OEM mufflers. (Figure 3)



Fig.3

4. Remove the two 5/16 inch bolts and washers attaching each muffler to the saddlebag mounts. (Figure 4)



Fig.4

5. Slide each muffler towards the rear of the bike to remove it from the head pipe assembly.  
*Note: Penetrating lubrication may be necessary to assist in the removal of the muffler. (Figure 5)*

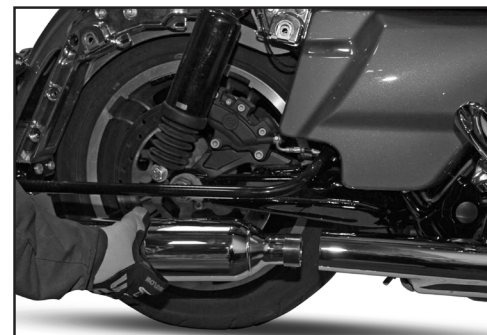


Fig.5

6. Remove the mid section and rear cylinder heat shields by removing the heat shield clamps. (Figure 6)



Fig.6a



Fig.6b



7. Locate and remove the two mounting bolts holding the right floorboard. (Figure 7)



Fig.7a



Fig.7b



Fig.7c

8. Remove the front cylinder heat shield by removing the heat shield clamps. (Figure 8)



Fig.8

9. Locate and remove the left side head pipe mounting bolt and loosen the connector clamp located underneath the motorcycle. (Figure 9)



Fig.9

10. Remove the left side head pipe assembly.

11. Remove hanger bracket from transmission. (Figure 10)

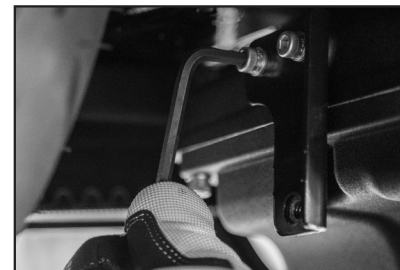


Fig.10

12. Locate and remove the four exhaust flange mounting nuts on each cylinder. (Fig. 11a 11b)



Fig.11a



Fig.11b

13. Remove the head pipe assembly mounting nut and head pipe assembly.(Fig. 12)



Fig.12

14. Remove the two O2 sensors from the head pipe assembly. To insure continued performance from your stock O2 sensors, keep any fingerprints, debris, or chemicals away from the tips.

15. From the stock head pipe assembly, remove the circlips and mounting flanges to reuse with the new system. Be sure to replace any reused hardware that is worn or damaged before installing your Magnaflow motorcycle exhaust system.

**PLEASE NOTE:**

Several MagnaFlow motorcycle exhaust systems are designed to be used with O2 and non-O2 sensor applications. If your motorcycle does not come equipped with O2 sensors, simply skip any steps referring to them. It will be necessary to install the supplied O2 sensor plugs during the installation process.

1. Install the new Magnaflow exhaust mounting bracket supplied in the kit using the factory carriage bolt and nut (Figure 1). Do not tighten at this time to allow for adjustment.

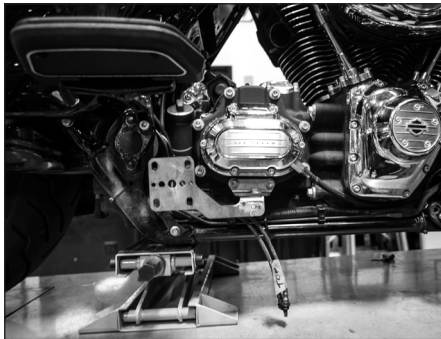


Fig 1

2. Install the factory mounting flanges and circlips, removed for the factory system, on the new head pipes (Figure 2).



Fig 2

3. Carefully install the factory O2 sensors into the new head pipes.

4. Attach the heat shield clamps the heat shields by inserting the end of the clamp through the retaining bracket (Figure 3)



Fig 3

5. Insert the head pipes into the heat shields and attach the clamps. Do not tighten at this time to allow for adjustment.

6. Install the front and rear head pipes to the exhaust ports using the factory exhaust port nuts. Do not tighten the nuts at this time to allow for adjustment. (Figure 4)



Fig 4

7. Attach the rear and front head pipe assemblies to the exhaust mounting bracket using the four 1/4 -20 x 1/2 inch bolts supplied. Do not tighten the bolts at this time to allow for adjustment. (Figure 1)



## TRU-DUAL INSTALLATION INSTRUCTIONS

8. Install P-clamp to left cross under pipe. (Figure 5)



Fig. 5

9. Insert the left cross under pipe into the rear head pipe making sure it is fully engaged in the slip joint. Attach the pipes using the supplied 1.75 inch exhaust clamp. Use numbers 4, 5, 6, 9 from the supplied hardware to bolt P-clamp to bracket. (Figure 6)

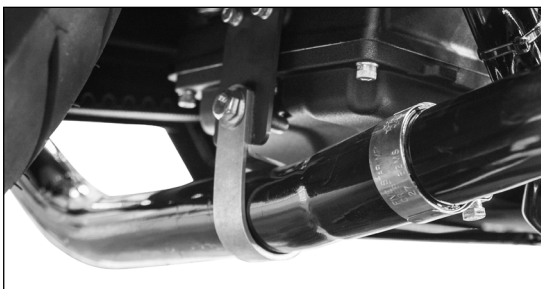


Fig. 6

10. Attach the rear and left heat shields to the rear and left head pipes using the heat shield clamps. Do not tight the clamp at this time to allow for adjustment. (Figure 7)



Fig. 7

11. Re-install the existing mufflers by reversing steps 1-5 of the removal instructions. Or complete your performance upgrade package by choosing MagnaFlow mufflers.

12. Install the floor board spacers provided using the 3/8-16 x 3.00 inch bolt. (Figure 8), (Figure 8b) 3/8-16 x 1.50 inch bolts and factory hardware.

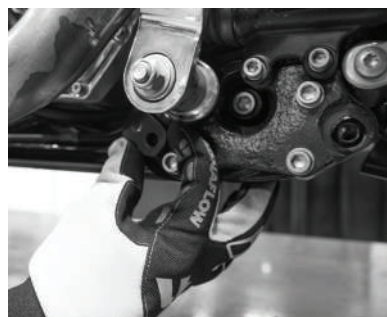


Fig 8a

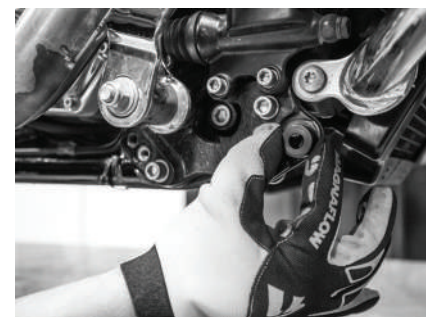


Fig 8b

13.. Adjust the exhaust system as necessary and tighten all of the bolts and clamps including head pipe flange nuts.

14. Re-route and plug in the O2 sensors to the factory harness. Secure the harness wire using the supplied cable tie.

15. Before starting the motorcycle, make sure to check that all of the exhaust components including O2 wiring have been properly installed and have proper clearance to avoid damage. Make sure that all hardware has been tightened to factory specifications. Please reference item 2 on the Important Information page.

16. Make sure to start the motorcycle for the first time in a well-ventilated area as the system may smoke from residue bending lubricate and heat cycling of the head pipe coating. Check for any exhaust leaks.

Note: Remapping the EFI unit is suggested to optimize performance while reducing the possibility of damage to your engine or new exhaust system.