

MYSTFREE UNIT DIRECTLY REPLACES THE FACTORY BREATHER UNITS

INTRODUCTION: These instructions describe the procedure for properly installing the MYSTFREE breather kit on the 1999 – 2006 TwinCam™ 88.

Review instructions carefully before beginning as they contain important information.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid injury to a motorcycle operator or person inspection or repairing the motorcycle.

COMPONENTS:

- 2- MYSTFREE Breather Units
- 4- ¼ 20 Bolts
- 4- ¼" AN Washers
- 2- MYSTFREE Copper Base Gaskets
- 2- MYSTFREE Cover Gaskets
- 2- Rocker Box Cover Gaskets

- 1- Shorter bolt for use in Sof
- 2- tails (optional)

PROCEDURE: (All Models Except Softail – See Reverse Side for Softail Supplement)

1. Begin by removing the seat and rear mounting bolt securing the fuel tank.
2. Lift fuel tank up from rear approximately 3 inches and prop up. **NOTE:** On FL models equipped with fuel injection fuel line will need to be disconnected at fuel tank to obtain adequate clearance.
3. Remove the six (6) bolts securing the Rocker Box cover. Discard old gasket.
4. Remove the two (2) bolts securing the stock breather module as shown in Figure 1.
5. Replace stock breather module with the MYSTFREE unit. Install two (2) ¼ 20 bolts with washers (included) and tighten alternately to 90 in-lbs. Install gasket and Rocker Box cover and bolts in sequence shown in your shop manual. Torque to factory specs.
6. Repeat above instructions for 2<sup>nd</sup> MYSTFREE unit.
7. Reinstall gas tank mounting hardware and fuel line as required.

**CAUTION: IF FUEL LINE WAS REMOVED INSPECT FOR ANY FUEL LEAKS BEFORE STARTING VEHICLE.**

**NOTE: ON SOFTAIL MODELS (REAR CYLINDER ONLY) INSTALLATION OF THE MYSTFREE WILL REQUIRE THE REMOVAL OF THE TWO BOLTS SECURING THE STOCK BREATHER MODULE AND THE 4 BOLTS SECURING THE ROCKER ARM STAND. REMOVE ROCKER ARM STAND AND MODULE AS A UNIT.**

**DISCARD STOCK BREATHER MODULE. INSTALL MYSTFREE UNITS MAKING SURE THAT THE ¼ 20 BOLTS ARE INSERTED IN MYSTFREE UNIT PRIOR TO INSTALLING ROCKER ARM STAND. REINSTALL ROCKER ARM STAND ASSEMBLY AND TIGHTEN BOLTS TO 20 FT. LBS**

**SEE NEXT PAGE FOR**

## SHORTCUT TO REMOVING ROCKER ARM STAND ON SOFTAIL MODELS THIS PROCEDURE APPLIES TO REAR CYLINDER ONLY

See Photo below.

The left bolt in the factory breather unit in the rear cylinder cannot be removed without removing the Rocker Arm Stand Assembly. The bolt hits the backbone of the frame not allowing it to be completely removed from the breather.

A shortcut to removing the Rocker Arm Assembly is to use a pair of medium sized bolt cutters, as shown in photo below. Cut the bolt just below the bolt head. This will allow removal of the Stock Breather Unit. Remove unit and replace with MYSTFREE Unit using the additional bolt labeled for left rear Softail which is included in your kit. Bolt is ¼" shorter and will allow MYSTFREE to be directly bolted in.



### ***Limited Warranty***

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### ***Important Notices***

The installation of these products may cause vehicles to be unable to be used on public highways, and the purchaser assumes all risk and liabilities thereof. The names Twin Cam 88, Evolution, and Sportster are registered trademarks of Harley Davidson Inc. Milwaukee, Wisconsin U.S.A. and are used for reference purposes only.

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**Questions/Comments about our products! Call or visit us at [www.DohertyMachine.com](http://www.DohertyMachine.com)**

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