



## **OUTLAW BREATHER BOLTS**

### ***Made in the USA!***

#### **INSTRUCTIONS**

(Please read entire instructions before beginning install)

#### **Parts included:**

2 Breather Bolts (Brass or Aluminum )

2 Extra Foam Filters

(each of these are made up of a machined bolt, 2 metal screens, foam filters and a c-clip)

#### **Installation Steps:**

These are designed to vent pressure to the atmosphere instead of into the air cleaner. They replace the stock "air cleaner breather screws" and are used in conjunction with an aftermarket air cleaner system.

Prior to installing them, please clean the threads in the heads thoroughly. Clear out all debris from previous thread locker or teflon. It is important that the bolt thread in easily, with no resistance.

When installing, use either teflon tape, teflon paste or medium (blue) thread-locker.

Torque Value is 120-144 **inch-lbs** (NOT ft-lbs) Since most garages don't have an accurate inch lb torque wrench. Put them in finger tight, as tight as you can get them with your fingers, then use an open end wrench to turn them another ¼ turn. If they are overtightened, it is possible that they will break off, leaving just the threads in the head. **Tip:** *To prevent scratching the surface of the bolts, you can use masking or painters tape on your wrench so there is no metal to metal contact.*

If your support bracket is not flush against the engine heads (or with 1/16" of the heads) do NOT use the breather bolts to pull the support bracket toward the heads. Instead use a washer(s) in between the support bracket and the heads.

#### **Maintenance:**

When washing bike, avoid directing the water stream directly at the end of the breather bolts. If you use a pressure washer (which is NOT recommended) seal off the end of the breather bolts with a piece of tape or plastic. When finished remember to remove.

The filters should be cleaned every 5000 - 10000 miles, or more often in extremely dusty conditions. The procedure is simple:

1. Use snap ring pliers to remove the c-clip
2. Behind the c-clip you will find the visible metal screen, then 2 small pieces of foam filter, then another metal screen. Remove all four.

3. Clean them, and if you wish, replace the foam filters with a new piece.
4. Clean the passageway inside the bolt
5. Re-insert the screen, then foam filters, then the visible screen, then secure all 3 in place with the c-clip.

**General Notes:**

- The rider's safety depends on the correct installation of this kit. Please do not attempt if you have any doubts of your ability to install.
- Outlaw Breather Bolts are designed to be used in conjunction with an after-market air cleaner system that is set up for external venting.
- Remember to use thread locker or teflon tape or teflon paste
- Do NOT over tighten - Torque value is in INCH-lbs NOT ft-lbs
- Outlaw Breather Bolts may not meet EPA and/or CARB emissions and noise guidelines and may be restricted to off-road use only.
- If you are getting blow-by, make sure you are not overfilling the oil. Please read your manual. Also, make sure to use the correct weight oil for your riding temperatures, per your manual.
- Higher compression engines, like the 103 ci, and older bikes with worn parts may find it useful to install 1 or 2 Extra filters in each Bolt.

*The following is a direct quote from the HD Owner's manual, and it is the same for Twin Cams and the Sportster.*

***"The correct oil level should register midway between the FULL and ADD marks on the dipstick."***

***"If oil level is at or below the ADD mark, add only enough oil to bring the level to the middle of the two marks on the dipstick."***

**The HD owner's manual also states that the recommended viscosity is SAE 50 if the lowest ambient temps are above 60 degrees and SAE 60 if the lowest ambient temps are above 80 degrees.**

When determining which ambient temperature range you are in, consider only the temperatures that you are riding/starting your bike in.

We know that most Dealerships use 20-50 weight year round, but that is NOT what the manual says to do, and it is one of the biggest reasons so many people have oil dripping from their air cleaner or breather system.

Caution: For Racing Vehicle Use Only. Note: This product is not for use on roads or vehicles subject to emission control requirements and is not legal for use or installation on motor vehicles operated on public highways in the State of California or other States where similar emission and decibel regulation laws may apply. The user shall determine suitability of this product for his or her use. The user shall assume all risk and liability of regulations and any incurred financial obligations due to vehicle inspections or emissions tests.

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