

BALLISTIC AIR SERIES

A ThunderMax Product

117-830-XX & 117-831-XX (incl. Thr. body cover)
2017 FL® Throttle by Wire Bikes, Trikes with
Milwaukee 8® engine

Thank you for purchasing a Ballistic Series Air
Cleaner by ThunderMax!

Please read through the following instructions before
beginning the installation procedure. Following these
instructions will ensure that the air cleaner is installed for
optimal results.

<u>Tools required:</u>	ratchet	scissors / knife
3/32" allen wrench	extension	
5/32" allen wrench	T-27 torx socket	
3/16" allen wrench	7/16 deep well socket	
5/16" allen wrench	1/2" socket	

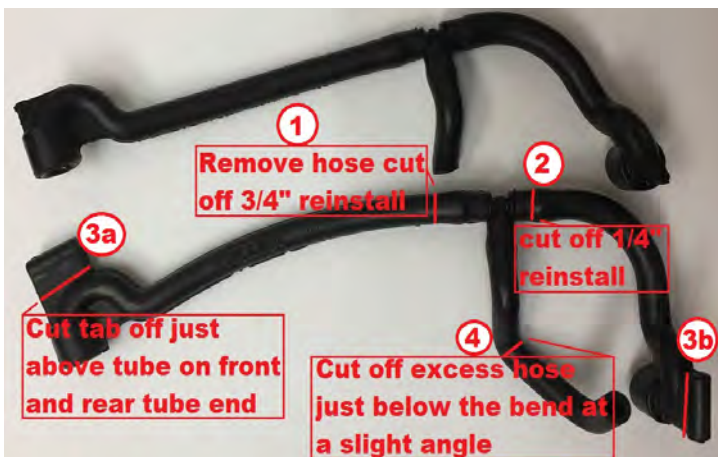
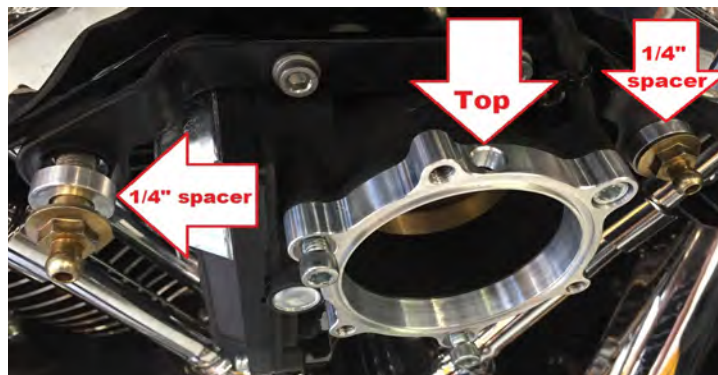
Step 1 Remove the stock air cleaner, clean the throttle body
support bracket and the heads and the throttle body gasket
face. Keep the breather bolts and the breather tube assembly
to reuse.

Step 2a Insert the o-ring in the rear side of the backing plate
spacer. Align the spacer with the bolt holes on the throttle
body. Apply blue loctite and insert the (3) 1/4-20 X 3/4"
SHCS in to the counter bore holes, tighten in place. Take the
2 stock breather bolts slide the supplied 1/4" spacer on, start
threads back into head and tighten in place.

Step 2b Modify the breather tube assembly (1) pull the
rear breather hose off at the tee in the middle. Cut 3/4" off of
the length and push back together (2) Pull the front hose off
and shorten 1/4", push back together (3a & 3b) Cut the tabs
off of the breather tube ends just above the molded tube
area. (4) Cut the center hose just below the bend as shown in
diagram. Push the breather tube end onto the breather bolts
in the correct location. Start the center hose into the hole in
the spacer plate and pull down into place. Insert the o-ring
into the groove on the front of the spacer.

Installation Guide

Please Note: This product is Legal in California
only for racing vehicles which may never be used
upon a highway. The user shall determine suitability of the
product for his or her use. Installation and use on a pollution-
controlled vehicle constitutes tampering under the U.S. EPA
guidelines and can lead to substantial fines. Review your
application and check your local laws before installing.
* CA Proposition 65 "known to the state of CA to cause [cancer]
[birth defects or other reproductive harm]" see
www.p65warnings.ca.gov for details



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CONTROLLED MOTOR VEHICLES"**

Step 3 Take the backing plate/cover assembly start slightly off to the left and then slide over to the right to align in place. Make sure the front breather hose is pushed down, to slide under the upper cover and doesn't get pinched. Apply blue loctite to the (3) 1/4-20 x 2 1/4" SHCS bolts. Align the 3 bolt holes of the filter mount with the spacers. Insert the 3 1/4 bolts through the filter mount/spacers into the throttle body, tighten in place.



Step 3 Place the Accent Ring onto the Ballistic air filter align the metal filter band with the corresponding spoke of the Accent ring to cover the metal when installed. Use 1 drop of blue loctite (supplied) on the 1/4" button head, slide it through the center of the accent ring, align the Ballistic filter with the center mounting post and backing plate. Start the bolt (do not tighten yet), push the filter back onto the backing plate to seat it. Carefully rotate the accent plate and/or filter for proper cosmetic alignment. Now tighten the 1/4" bolt.



Step 4 Take the center medilion plate align and push inward to snap into place. If you need to remove the medilion plate use a guitar pick or any other thin piece of plastic to avoid scratching the finish.



*****Tip*** To clean your air filter****

The Ballistic air filter element is manufactured by K&N. We recommend using a K&N filter recharge kit to properly clean and re-oil your filter. Follow the K&N instructions included in the recharge kit. The web url below, will take you to a K&N air filter cleaning video.

http://www.knfilters.com/video/KN_Air_Filter_Cleaning.htm

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