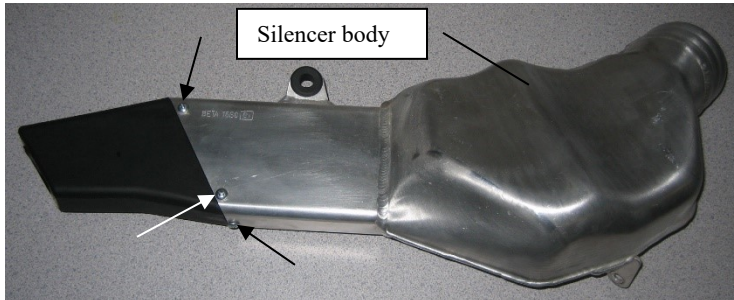
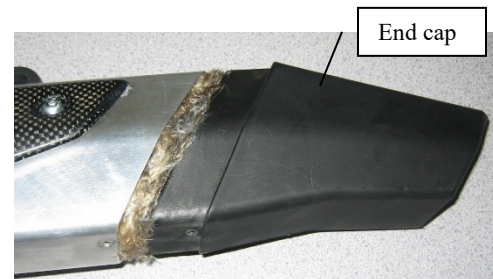


## Installation instructions for Beta 2-t Evo spark arrestor part #BT-3

- 1) Remove the CLEAN silencer from the CLEAN bike.
- 2) Locate and remove the three screws holding the composite end cap to the silencer body (reference Figure 1).

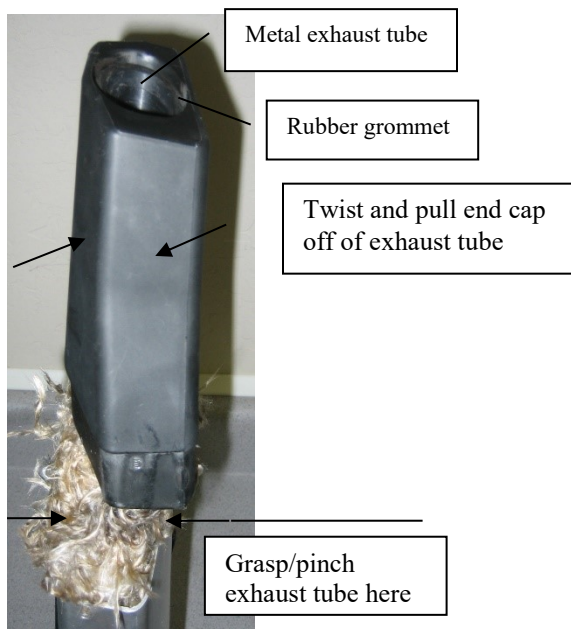


**Figure 1** – Right side of complete silencer with arrows identifying the three screws that hold the end cap to the silencer body.

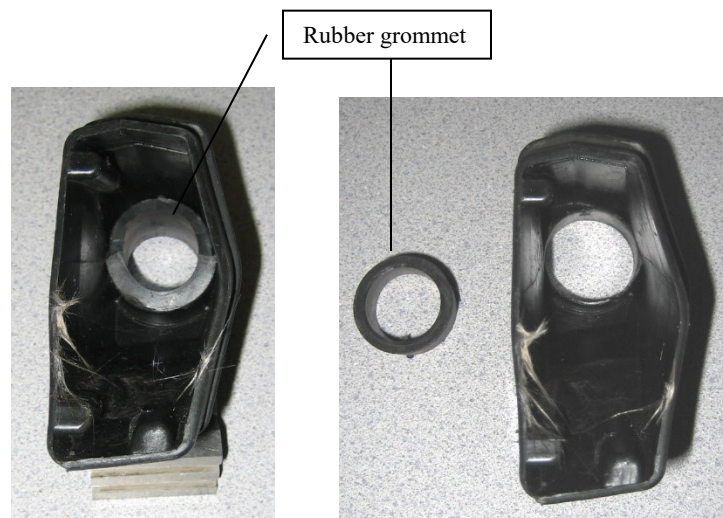


**Figure 2** – Left side view of end cap just separated from silencer body.

- 3) Gently separate the end cap from the silencer body as shown in Figure 2. Note the goal here is only to separate the end cap from the silencer body to install the spark arrestor. If you continue to pull straight out on the end cap you will pull out the perforated exhaust tube and effectively unpack the silencer. If you already planned on repacking the silencer go ahead and completely remove the packing and exhaust tube.
- 4) Once separated grasp/pinch the center of the silencer packing and exhaust tube (as shown in Figure 3) with one hand, and with the other gently twist the end cap back and forth while pulling away from the silencer body, the goal is to not pull the exhaust tube out and separate the exhaust tube from the end cap. You should be watching the metal exhaust tube recede in the rubber grommet as the pieces separate. Continue to pull/twist on the end cap until it is free from the exhaust tube.

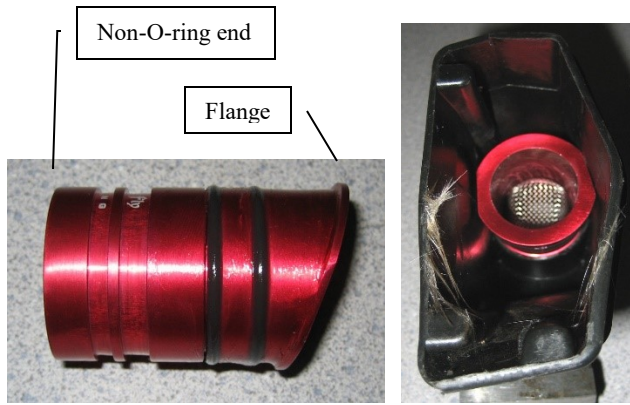


**Figure 3** – End cap being twisted and pulled off of the metal exhaust tube.



**Figure 4** – Inside view of end cap identifying rubber grommet installed location (Left) and appearance after removal (Right).

- 5) After the end cap is free from the exhaust tube pull out the rubber grommet from the inside of the end cap and thoroughly clean the end cap, especially the bore where the grommet was (test for solvent compatibility with the composite (PLASTIC) end cap). The spark arrestor will replace the rubber grommet in the end cap assembly. Figure 4 shows what the end cap looks like with and without the grommet.



**Figure 5** – View of greased spark arrester ready for insertion (Left) and partially inserted in end cap (Right).



**Figure 6** – End cap being installed onto silencer body, note exhaust tube is directed to the I.D. of the spark arrester.

- 6) Prior to inserting the spark arrester into the end cap, lightly grease in and around the O-rings to ease insertion. Figure 5 illustrates the greased spark arrester ready for insertion (Left). Note the non-O-ring end is inserted into the end cap first, as shown in the Right illustration of Figure 5. Also note the orientation of insertion, insert with the shorter length of the spark arrester at the top of the end cap so that the “Spanish Fly Racing” laser engraving would be facing the ground when on the bike. Continue to push the spark arrester into the end cap until the flange is seated, pushing only on the aluminum body not the screen. The fit should be snug to tight. If you need a hammer it is too tight, remove the spark arrester and sand or file any flashing or excess material in the end cap bore and try it again.
- 7) Next clean and lightly grease the portion of the exhaust tube that will fit in the spark arrester and slide the end cap onto the silencer body by directing the exhaust tube into the I.D. of the spark arrester as shown in Figure 6. Be patient, it may take several attempts to get the orientation correct and the exhaust tube sliding into the spark arrester.
- 8) Continue to work the end cap onto the silencer body using the same slight twisting technique utilized for removal.



**Figure 7** – Left side view of silencer body showing installed spark arrester.

- 9) Once end cap is seated reinstall the three screws. Final installation should look like Figure 7. Reinstall the silencer and go ride.

**SERVICE:** To maintain maximum flow characteristics the screen must occasionally be cleaned. Start with 6 hour service intervals & adjust per individual requirements depending on oil brand & mixing ratio. **WARNING: DO NOT USE A TORCH TO BURN THE SCREEN CLEAN, THIS WILL PERMANENTLY DAMAGE THE SCREEN AND DOES NOT REMOVE ALL CARBON DEPOSITS.** To clean the screen: (1) remove the spark arrester from the end cap as described in the installation instructions. (2) Remove the screen from the spark arrester body by pinching the end of the screen to compress it, and then pulling it out in the opposite direction of exhaust flow. (3) Clean the screen with an appropriate solvent (WD40 & a tooth brush work great). (4) Re-install the screen back into the spark arrester body by again pinching/compressing the screen & sliding it in making sure it is seated in the relief cut in the end of the body. (5) Re-install spark arrester per installation instructions, smile & ride.

**PATENT PENDING & USFS APPROVED (REF. FILE#0880-01)**

**MATERIALS:** Body-anodized 6061-T6 aluminum, Sealing- size 123 viton O rings (2X), Screen-stainless steel

**WEIGHT:** 49 grams (1.73 oz)

**APPLICATIONS:** Beta Evo 2-T 125-300 Years 2009-2023