



Installation Instructions for Zippers Max Flow Air Cleaner # 117-448 High Flow Air Cleaner # 117-449

List of Materials

- (1) Gasket, carb to a/c backplate
- (4) Air cleaner backplate o-rings
- (2) breather bolts
- (1) Air cleaner backplate
- (1) Air filter element
- (3) Air filter mounting stanchions
- (3) Torx head cap screws
- (1) Air cleaner inner cover washer

These kits are designed to be used on Twin Cam® engines equipped with the standard Twin Cam® "football" air cleaner cover, which makes 360° contact between the cover back and the rubber gasket on the filter. Do not install decorative cover inserts (due to increased weight) or use 2006-up CVO Touring model covers that do not make 360° contact between the cover back and the rubber gasket.

1. Remove existing air cleaner assembly, including backplate and black support bracket. Retain factory supplied cover and mounting screw (bracket is not re-used).
2. Place new gasket onto backplate, aligning holes and mounting studs.
3. Install (2) o-rings into counterbores on backplate where backplate meets cylinder head (a dab of grease will hold them in place during installation). Place backplate over throttle body with gasket in place. Apply low strength threadlocker such as blue Loctite® to stanchion studs and loosely attach backplate to throttle body or carburetor (do not tighten yet).
4. Install (2) o-rings over supplied breather/support bolts into recessed area under the bolt heads. Apply low strength threadlocker such as blue Loctite® to support bolt threads; install bolts through backplate into cylinder heads. Tighten support bolts to 120-140 in/lbs (13.5-16.0 Nm). Tighten (3) stanchions through backplate into throttle body and tighten to 85-90 inch pounds in a sequence. **Due to the thickness of the backplate gasket, perform several rounds of the tightening as the gasket will crush and relax the torque on the stanchions. 3-4 tightening rounds should be performed to ensure proper torque.**

5. Apply low strength threadlocker such as blue Loctite® to (3) Torx head screws provided and install filter element to stanchions.

6. Re-install the air cleaner cover bolt through the cover. Dab a small amount of silicone seal to one side of the supplied thick washer. From **inside** the cover, place the supplied washer over the bolt, silicone side towards air filter element. Apply Loctite on the threads of the bolt and install the cover assembly onto the air filter element.



This product is legal in California only for racing vehicles which may never be used upon a highway.

Tips For Cleaning Your Max Flow Filter Element

Step 1: Clean



Gently shake off and brush away excess dirt. Spray on Cleaning Solution so that the filter is fully saturated, and let soak for 10 minutes. Rinse filter from the clean side to the dirty side until water comes through clear.

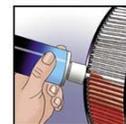
Use only low pressure from a tap or hose.

Step 2: Dry



Allow filter to dry. A fan may be used to speed process. DO NOT use heated air blowers, compressed air, or open flame.

Step 3: Apply



Make one careful application of Filter Oil to each filter pleat. Allow oil to seep into filter for 20 minutes. Re-oil any areas that still appear dry. Do not over oil.

Thank You for Purchasing a Zippers Performance Product!

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