Velocity 65° & 90° Sucker Air Cleaner Kit
Part Numbers: 81-200 to 81-203 & 600-028 to 600-031
17+ FLT Milwaukee 8 or 08-16 Fly-By-Wire Models
ARB E.O. D-639-10

Thank you for purchasing this genuine Arlen Ness product. We believe our products are the best on the market and are engineered for a lifetime of use. Some specific hand tools and service manual for your make, model and year of motorcycle are all you will need to complete this installation. Please retain these instructions for future reference. To ensure proper installation, a qualified motorcycle technician should perform the installation.

Bill of Materials:

1 – Manifold Gasket	2 – Elbow Breather Bolts	1 – Intake Backing Plate
1 – Intake Elbow	1 – Hardware Kit	1 – Intake Air Filter
1 – Arlen Ness Air Filter Center Cap	1 – Arlen Ness Nameplate (M8 Only)	2 – M6 x 1.0 Button Heads (M8 Only)
1 – Servo Cover (M8 Only)	1 – Synthetic Filter Care Sheet	

Supplies Needed (Not Included):

Blue Threadlocker Grease

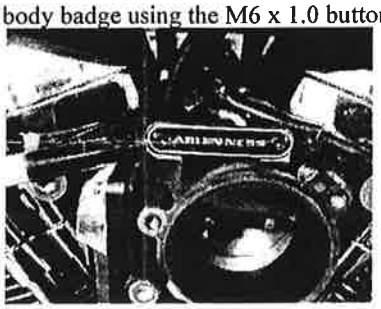
IMPORTANT NOTE: Due to the increased air flow it may be necessary to install an adjustable fuel tuner!

Steps:

1. Remove the existing air cleaner and backing plate per the service manual for your model. Remove the OEM throttle body support bracket, if applicable. Clean the flange on the throttle body/carburetor as well as the surfaces on the cylinder heads.

2. For Milwaukee 8 models, install the throttle body badge using the M6 x 1.0 button heads provided.





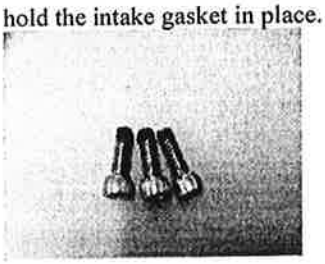
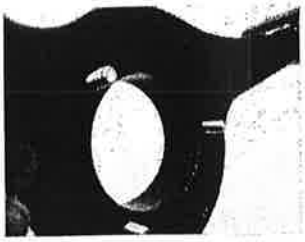
3. Install o-rings provided in the hardware kit in the grooves on the back side of the backing plate using a small dab of grease to keep them in place.



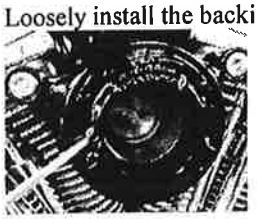
4. For Milwaukee 8 models, install the servo cover using the 6-32 x ¼" socket heads with #6 washers and tighten to 20-25 in-lbs.



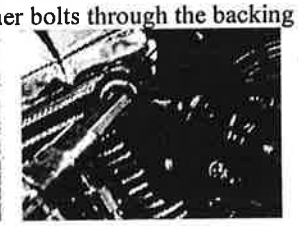
5. Insert the three ¼-20 x 1" socket heads into the backing plate with a small drop of blue threadlocker. Use the screw to locate and hold the intake gasket in place.

6. Loosely install the backing plate to the intake manifold using the three ¼-20 x 1" socket heads holding the gasket in place.



7. Install the copper washers onto the socket head breather bolts and apply a small amount of threadlocker onto the threads. Loosely install the breather bolts through the backing plate into the cylinder heads.

8. Alternately tighten the three intake manifold screws and torque them to 10-12 ft-lbs. Then tighten the two breather bolts to 18 ft-lbs. Locate and install the large backing plate o-ring and fully seat it into the groove in the backing plate.



9. Apply a small amount of thread locker to the remaining three ¼-20 x ¾" socket heads. Place the intake elbow over the backing plate while aligning the mounting holes, applying pressure to the elbow to ensure that the screws line up correctly. Once all three screws are installed and seated, torque the elbow screws to 7-8 ft-lbs.




10. Press the filter button cap into the hole in the center of the filter and then install with the clip on the pleats facing down.

