



## Forcewinder Installation Instructions for Fuel Injected Engines

**Tools/Materials Needed:** 3/16 ball-end Allen wrench, 5mm Allen wrench, dykes/wire cutters, 3/4" wrench or deep-set socket & driver, bench grinder or die grinder, two 6-inch lengths of 18/22 gauge wire and butt connectors. Note: 1990-99 Big Twin Evolution engines use DS-289067, 1988-2000 XL use DS-289062, and 1999-2000 Twin Cam use DS-289082.

1. Remove the stock Buell air housing.
2. Remove the air sensor from the slip-in holder.
3. Clip the air sensor's wires near the top frame member, leaving about 4-1/2" to 5" of wire left on the air sensor side to slide through the Forcewinder housing tube. Remove the black sheath. Strip down the wire ends to place a butt connector or other suitable connector on the cable ends and attach the lengthening wires.
4. Grind down the plastic connector that attaches to the air sensor, using a bench grinder or other suitable grinder (file, bench grinder, die grinder, etc.). Remove enough material to allow the connector and air sensor to easily fit into the large end of the Sidewinder aluminum cup. Grind down the protruding flange of the connector to clear the K&N filter and stainless-steel clamp. (fig. 2 and fig. 3)
5. Use a 5mm Allen wrench to remove the plastic air guide from the carb intake. (The two easy-to-reach Allens should be removed 1st along with the metal half-moon shaped clamp, then remove the final 5mm Allen.)
6. Remove the two cylinder head oil breather 3/4" fittings along with the carb's mounting bracket. You will not need the bracket with the Sidewinder. (fig. 4)
7. Install the supplied aluminum fittings in the cylinder head. Attach the cross pipe between the two fittings and tighten down. (fig.5) The rear cylinder fitting will be loose until the cross-over pipe is in place and tightened up.

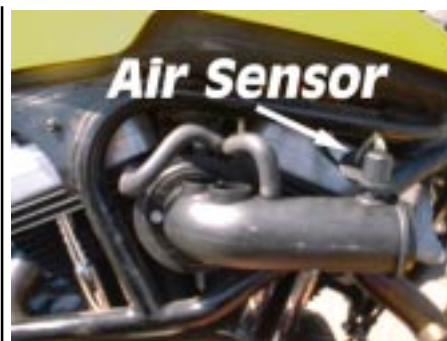


fig. 1



fig.2



fig. 3

8. Position the Forcewinder intake and the K&N air filter to see what position is best for the oil breather tube-to-air filter tube in place.

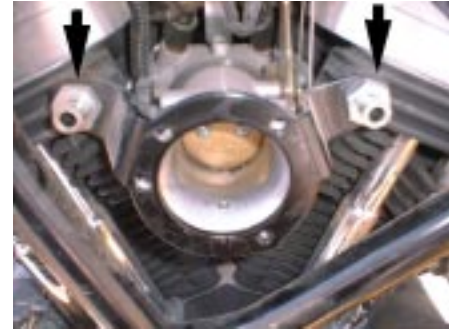


fig. 4

9. Apply a drop of Locktight Blue or similar thread locker to the Allen head bolts and install the Forcewinder intake. (A ball-end 3/16" Allen wrench is needed to secure the top right Allen head bolt.)

10. Attach the K&N filter to the Forcewinder intake, being careful not to crush the air filter element while fitting it on the intake. (Spray the lip of the filter with WD40 to ease it on.) Tighten up the stainless-steel band clamp. (fig. 6)

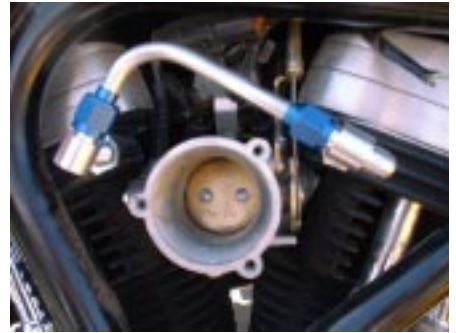


fig. 5

11. Attach the oil breather fitting and the air sensor to the K&N air filter.

12. Route the air sensor's wiring for a clean sano-look, and secure with pastic zip-ties. Make sure the wiring doesn't touch any hot surfaces.



fig. 6

13. Start your Buell, and enjoy the ride!

(Note: We recommend dyno-tuning your Buell once the installation is finished. The Forcewinder allows the engine to draw more air, which can result in a lean engine condition. Dynojet makes kits to re-jet your Buell's engine properly.)