



# INSTALLATION

## PRO R HYPERCHARGER for VTX 1800

## 9461

### PARTS INCLUDED

- 1 Pro R Hypercharger Assembly
- 5 Screws in Plastic Bag Including:
  - 3 1/4"-20 X 1-5/8" Button Socket Cap Screws
  - 2 #6-32 X 3/8" Socket Head Cap Screws
  - 2 #6 Flat Washers
- 1 Filter Cage Assembly 3-Piece
- 1 Round Hyper Filter
- 1 Throttle Body Adapter
- 1 Hardware Kit Including the Following:
  - 3 1/4"-20 x 1/2" Socket Head Cap Screws
  - 4 M5 x .80 x 16mm Hex Flange Screw
  - 2 #10-24 x .4 Button Socket Cap Screws
  - 1 14" Long 5/32" Rubber Hose
  - 1 Gasket with Adhesive
  - 1 Nipple, 1/8" NTP EFI Chrome
  - 1 Elbow, 1/4" NTP 90 Degree Chrome
  - 1 Cap Grey Vinyl
  - 1 1" Pin
- 1 Installation Instructions

Please read and understand entire instructions before starting installation.

### THANK YOU FOR CHOOSING KÜRYAKYN!

**IN ORDER TO PROTECT YOU AND OTHERS FROM POSSIBLE INJURY AND/OR PROPERTY DAMAGE OR LOSS, PLEASE PAY CLOSE ATTENTION TO ALL INSTRUCTIONS, WARNINGS, CAUTIONS AND ATTENTION NOTES REGARDING THE USE AND CARE OF THIS PRODUCT.**

**WARNING!** THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN CAN RESULT IN POTENTIAL DEATH OR SERIOUS INJURY.

**ATTENTION!** This indication alerts you to the fact that ignoring the contents described herein may negatively affect product performance and functionality.

**CAUTION!** This indication alerts you to the fact that ignoring the contents described herein can result in potential injury or material damage.

### TOOLS SUGGESTED

Set of Hex Wrenches, Set of Metric Combination Wrenches, Phillips Screwdriver

**STRICTLY OBSERVE THE FOLLOWING GUIDELINES IN ORDER TO USE THE PRODUCT PROPERLY AND AVOID POTENTIALLY DANGEROUS ACCIDENTS.**

### STEP 1

Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface and turn off the ignition. Let cool.

-cont.-

9461-23MC-1011

### CUSTOMER SERVICE

877.370.3604 (toll free)

### INSTALLATION QUESTIONS

techsupport@kuryakyn.com  
or call 715.247.2983

### LIMITED WARRANTY

Küryakyn warrants that any Küryakyn products sold hereunder, shall be free of defects in materials and workmanship for a period of one (1) year from the date of purchase by the consumer excepting the following provisions:

- Küryakyn shall have no obligation in the event the customer is unable to provide a receipt showing the date the customer purchased the product(s).
- The product must be properly installed, maintained and operated under normal conditions.
- Küryakyn makes no warranty, expressed or implied, with respect to any gold plated products.
- Küryakyn shall not be liable for any consequential and incidental damages, including labor and paint, resulting from failure of a Küryakyn product, failure to deliver, delay in delivery, delivery in nonconforming condition, or for any breach of contract or duty between Küryakyn and a customer.
- Küryakyn products are often intended for use in specific applications. Küryakyn makes no warranty if a Küryakyn product is used in applications other than intended.
- Küryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. L.E.D.'S contained in components of Küryakyn products will be warranted for defects in materials and workmanship for 3 years from the date of purchase where as all other components shall be warranted for one(1) year. This includes, but is not limited to; control modules, wiring, chrome & other components.
- Küryakyn makes no warranty of any kind in regard to other manufacturer's products distributed by Küryakyn. Küryakyn will pass on all warranties made by the manufacturer and where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.

### ABOUT OUR CATALOG

For purchasing Küryakyn® products, you can receive a complete catalog free of charge.

Send the Proof-of-Purchase below with your address to: Küryakyn, P.O. Box 339, Somerset, WI 54025.

Please indicate either Accessories Catalog for Harley-Davidson® or GL & Metric Cruisers.

Be sure to ask your local dealer about other Küryakyn® products, the motorcycle parts and accessories designed for riders by riders.

©2005 Küryakyn USA® All Rights reserved.



kuryakyn.com

**WARNING!** YOU WILL BE WORKING AROUND THE ENGINE AND EXHAUST SYSTEM DURING INSTALLATION. ENSURE THAT THE ENGINE AND EXHAUST SYSTEM HAVE FULLY COOLED TO PREVENT INJURY.

**CAUTION!** The installation of any high performance exhaust system can cause a "lean" fuel/air mixture. A "lean" fuel/air mixture can cause engine overheating resulting in severe engine damage. Küryakyn recommends using our Wild Things Fuel Injection Controller", Küryakyn P/N 9218. (Sold separately) on fuel injected bikes or having the bike tuned by an experienced tuner, on a dyno, with an exhaust gas analyzer.

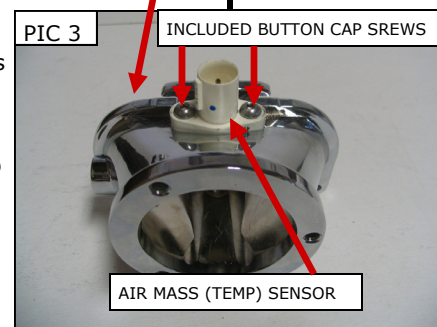
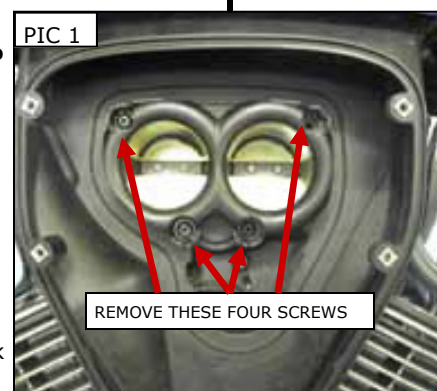
**ATTENTION!** A factory service manual may be helpful in performing this installation. Do not attempt to perform this installation if you are not confident in your ability to complete all of the steps in the procedure; consult a trained technician.

**STEP 2** Remove the seat and the rear mounting bolt of the fuel tank.

**STEP 3** Either prop the rear of the tank up, or have an assistant hold the rear of the tank up. Remove the four Phillips head screws from the "air horn" assembly in the stock air cleaner backing plate. (See PIC.1.) Gently "tug" outward at the bottom of the stock air cleaner back and it will become free from the bike, only to be connected by hoses and a wire harness. Remove the three hoses from the backing plate as well as the plug from the air mass (temp) sensor. The stock backing plate may now be removed from the motorcycle, and the tank may now be returned to its original position and re-connected. The stock backing plate will be able to be removed by holding up on the back side of the fuel tank, but it will be a tight fit.

**STEP 4** See PIC.2, and PIC.3. Remove the white plastic air mass (temp) sensor and the O-ring from the stock backing plate. Install the O-ring into corresponding groove in the new cast throttle body adapter. Install the air mass sensor into the adapter at this time using the included #10-24 X .4" Button Socket Cap Screws. Install the chrome elbow into the throttle body adapter then the nipple into the elbow. Make sure to point the nipple up. Your crank case ventilation hose should be rerouted over the top of the throttle body so it can be plugged into this nipple. See PIC.4.

**STEP 5** See PIC.5. The largest diameter hose (marked as A) will be capped off using the vinyl cap included in the kit. PIC 6 The air mass temp sensor plug (marked as D) is also shown in PIC.5. The intermediate size hose (marked as B, about 3/8" I.D. (PIC.5)) will be plugged into the nipple you have installed on the throttle body adapter (this is your crankcase breather). Follow the vacuum line down from the cold start sensor, under tank, to where it connects to the vacuum nipple at the top of the intake manifold between the two cylinders. Remove the hose from that vacuum nipple and plug with the 1" pin supplied then stow under tank. Plug the 14" section of hose included with the Hypercharger kit to the intake manifold nipple as shown in PIC.7. The smallest hose (marked as C, approximately 1/4" outside diameter) is the hyper vacuum hose. The remaining end will later be connected to the vacuum pod on the Hypercharger in STEP 8. **DO NOT REUSE ANY OF THE STOCK VACUUM LINES OR THE "T" FITTING OR THE BUTTERFLIES WILL NOT OPERATE. USE A CABLE TIE TO SECURE THE DISCONNECTED STOCK VACUUM LINES.**



**STEP 6**

This step will require some patience as you will be working in a very limited space. See PIC.8. Start one of the M5 hex flange bolts in one of the two lower mounting holes of the throttle body. Slide a corresponding slot on the throttle body adapter on to this bolt. Start the remaining three bolts in the adapter mounting holes. Screw the **BOTTOM** two mounting screws in all the way—it may be easier for you to hold the adapter out away from the throttle body as you run these screws in. You will most likely have to use your open end wrench and move the fasteners about 1/6 of a turn at a time. Once the bottom two screws are in all the way, but not tightened, you may thread the top two mounting screws in. Tighten all four screws, but do not over tighten. If you snap or strip one of these screws, you will have to repeat this process. Reconnect the plug to the air mass sensor that was disconnected in STEP 3.

**STEP 7**

Fasten the supplied adhesive gasket to the backside of the Hyper. Mount the back plate to the throttle body adapter using the three included 1/4"-20 X 1/2" Socket Head Cap Screws. Snap the velocity ring into place so that the hole is in the 10 o'clock position. See PIC.9. Install the filter elements, and reassemble the Hypercharger. Use the three included 1/4"-20 X 1-5/8" Button Socket Cap Screws to secure the front cover to the back cover. Use the two included #6-32 X 3/8" Socket Head Cap Screws and #6 Flat Washers to secure the Pro R end caps to the front half of the Hypercharger.

**STEP 8**

Connect the vacuum line to the nipple on the bottom of the vacuum pod on the back of the Hypercharger with the small hose marked C in PIC.5.

**STEP 9**

Reinstall the seat.

**STEP 10**

**Double check the tightness of all related fasteners, check for hose clearance and check throttle for correct operation, making sure it returns properly, before starting bike.**

**ATTENTION!** It is the installer's responsibility to ensure that all of the fasteners (including preassembled) are tightened before operation of the motorcycle. Küryakyn will not warranty components lost due to improper installation. Periodic maintenance may be required.

