



# INSTALLATION

## PRO R HYPERCHARGER for YAMAHA 9466

### PARTS INCLUDED

- 1 Pro R Hypercharger Including:
  - 2 6-32 x 3/8" Socket Head Cap Screws (in plastic bag in Hyper)
  - 2 #6 Flat Washer (not used) (in plastic bag in Hyper)
  - 3 1/4"-20 x 1-5/8" Hex Drive Oval Screw (in plastic bag in Hyper)
- 1 Dual Velocity Ring (in plastic bag in Hyper) (not used)
- 1 Filter Cage Assembly (in plastic bag in Hyper)
- 1 Round Hyper Filter
- 1 Yamaha Roadstar Mounting Kit Including:
  - 3 1/4"-20 Nylock Nut
  - 3 1/4"-20 x 5/8" Socket Head Cap Screw — Patched
  - 1 M6 Serrated Flange Nut
  - 4 M4-.7mm x 10mm Socket Head Cap Screw
  - 2 M6-1.0mm x 30mm Socket Head Cap Screw
  - 2 M6-1.0mm x 16mm Socket Head Cap Screw
  - 3 M6 Tapered Bolt Caps
  - 1 16" 5/32" Vacuum Line
  - 1 3-Way Barbed "T" Fitting
  - 1 Rubber Intake Duct
  - 1 Barbed Connector, 3/8"
  - 1 Main Support Bracket
  - 1 "Z" Bracket
  - 1 "L" Bracket
  - 1 Idle Adjuster Bracket
  - 1 Lower Mounting Bracket
  - 1 Installation Instructions

**NOTE: NOT ALL OF THE ABOVE PARTS WILL BE USED.**

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 Metric and Standard 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.**

### 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.

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**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.

**DISCLAIMER — PLEASE READ BEFORE PROCEEDING**

Any modifications to a motorcycle's exhaust or intake tract require an EFI tuning device to achieve maximum performance and maintain drivability. If you are uncomfortable with the process of tuning your EFI system, we recommend that you bring your motorcycle to a qualified motorcycle mechanic to have this kit installed. Kuryakyn warrants the parts included in this kit to be free of defects in materials and workmanship, but makes no claim whatsoever in regard to costs associated with installation or tuning.

**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.

**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.

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

**STEP 2** Remove the seat, fuel tank, and OEM air cleaner assembly. Disconnect the hoses connected to the air cleaner while leaving them connected to the motorcycle. Save the clamp that secures the air duct to the throttle body and the OEM fasteners used to secure the stock air cleaner assembly to the motorcycle as some will be reused.

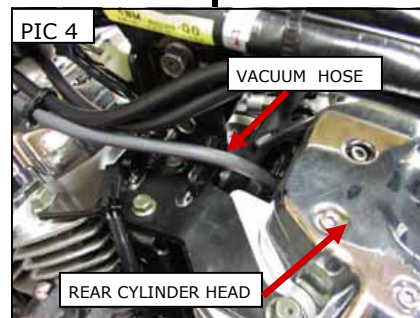
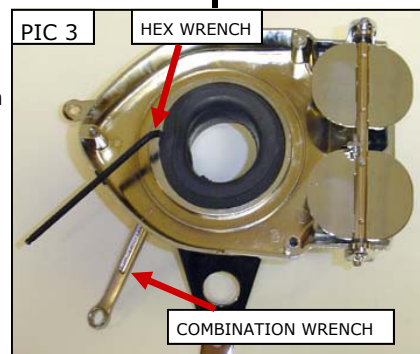
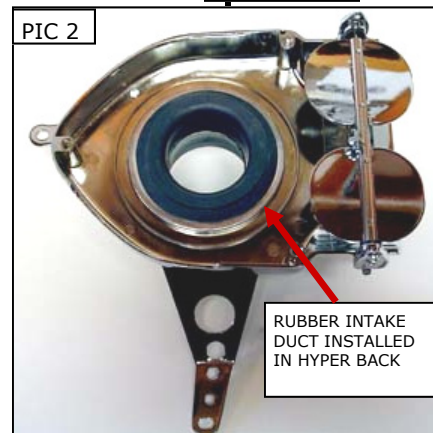
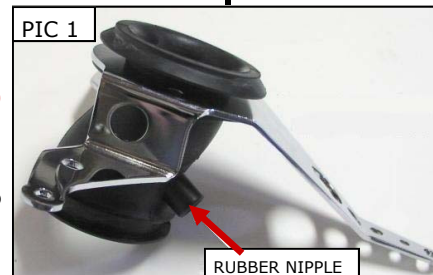
**STEP 3** Insert the rubber intake duct into the main support bracket as shown in PIC.1. The rubber nipple should be pointing toward the longest leg of the bracket.

**STEP 4** Insert the rubber intake duct into the Pro R series Hypercharger in the same fashion it was installed in the main support bracket. See PIC.2. You may need to use a screwdriver to help "poke" the flange of the Rubber Intake Boot into position inside the Pro R series Hypercharger.

**STEP 5** Line up the three holes in the back plate of the Pro R series Hypercharger and the three holes in the flange of the rubber intake duct with the three holes in the main support bracket. Insert the three supplied 1/4"-20 x 5/8" socket head cap screws from inside the Pro R series Hypercharger and secure on the back side of the main support bracket with the 1/4"-20 thin nylock nuts. You will need to pull back the inner flange of the rubber intake duct to access the holes. Hold the nylock nuts with an open end wrench as you tighten the socket head cap screws with a hex wrench. **Be careful not to over tighten and cause the rubber intake duct to pucker around the nylock nuts.** See PIC.3.

**STEP 6** Install the filter elements and the front half of the air cleaner. Use the three 1/4"-20 x 1-5/8" Hex Drive Oval Screws in the cover. The two #6-32 x 3/8" Socket Head Cap Screws will be used in the R end caps. Do not use the 2 small washers.

**STEP 7** Tap into the vacuum source by cutting the vacuum line shown in PIC.4. This line comes from the top of the intake manifold near the rear cylinder head on the left (sitting on bike) side of the bike. Install the supplied "T" fitting as shown in PIC.5. Connect the supplied 16" length of 5/32" vacuum line to the 3rd leg of the "T" fitting. This section of line will be routed to the Pro R Hypercharger in a later step.



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**STEP 8** Place the OEM clamp removed in STEP 2 on the end of the rubber intake duct in the same manner it was installed on the OEM air duct.

**STEP 9** Loosely install the "Z" Bracket to the rear cylinder head and the "L" bracket to the front cylinder head using the supplied M6 x 1.0 x 30mm socket head cap screws. See PIC.6. Their position may need to be adjusted slightly when the air cleaner is installed so do not tighten them fully at this time.

**STEP 10** Install the chrome lower support bracket as shown in PIC.7 using the OEM hardware. If necessary, tweak the bracket upward slightly so it does not contact the engine case.

**STEP 11** Hold the Pro R series Hypercharger and support bracket assembly up to the bike.

- Slip the rubber intake duct with the OEM clamp onto the carburetor.
- Loosely fasten at the top two legs of the "Y" bracket to the "Z" and "L" brackets. Use the supplied M6 x 1.0 x 16mm Socket Head Cap Screws and the supplied Tapered Bolt Caps as seen in PIC.8.
- Loosely fasten the lower leg of the "Y" bracket and idle speed adjuster bracket using the supplied Tapered Bolt Cap and the M6 serrated nut with the OEM fastener. See PIC.9. It may be necessary to slightly adjust the position of the "Z" and "L" brackets in order to line up all mounting points.

**STEP 12** Once all fasteners are in place, fully tighten the lower leg of the main mounting bracket, the two fasteners that hold the "Z" and "L" brackets to the cylinder heads, and the two fasteners that hold the main mounting bracket to the "Z" and "L" brackets. Tighten the OEM clamp securing the rubber intake duct to the carburetor.

**NOTE:** To tighten the "L" bracket to the front cylinder head, it may be necessary to momentarily remove the main mounting bracket from the "L" bracket to allow access to the M6 x 1.0 x 30mm socket head cap screw securing the "L" bracket to the head.

**STEP 13** Connect all hoses. You may need to refer to the Yamaha Road Star factory service manual.

- The 3/8" I.D. hose is your crankcase breather hose. Insert one end of the 3/8" barbed connector into this hose and then plug it into the large rubber nipple on the bottom of the rubber intake duct.
- Route the vacuum line connected to the "T" fitting installed in STEP 9 to the vacuum nipple located at the bottom of the vacuum pod on the back of the Pro R series Hypercharger.

**STEP 14** Reinstall fuel tank and seat.

**STEP 15** **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.** The butterflies should be completely open when the bike is not running, closed and fluttering when the bike is idling and will open momentarily then close again if the throttle is blipped with the bike in neutral.

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

