



INSTALLATION

HYPERCHARGER for YAMAHA V-STAR 650

9422

PARTS INCLUDED

- 1 Hypercharger Assembly — Chrome
- 1 Mounting Kit Including:
 - 1 Rubber Manifold
 - 1 Mounting Bracket
 - 4 M6 Aluminum Spacer
 - 3 1/4"–20 X 5/8" Socket Head Cap Screw
 - 3 1/4"–20 Nylock Nut
 - 3 M6 Aluminum Tapered Bolt Cap
 - 2 M6 X 1.0 X 30mm Socket Head Cap Screw
 - 1 M6 X 1.0 X 16mm Socket Head Cap Screw
 - 1 6MM Serrated Flange Lock Nut
 - 3 M6 Flat Washer
 - 1 18" Hose
 - 1 90 Degree Elbow
 - 1 5" Hose
 - 1 Aluminum Pipe, 3/8" X 1-1/4", Hose Splice
 - 1 Three Way "T" Fitting — Barbed Nylon
- 1 650 V-Star Jet Kit Including:
 - 2 #35 Pilot Jet
 - 2 117.5 Main Jet
 - 2 120.0 Main Jet
 - 2 122.5 Main Jet
- 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 NOTICES 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.

NOTICE

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

NOTICE

IF INSTALLING THIS PRODUCT FOR ANOTHER PARTY, PLEASE MAKE SURE THEY RECEIVE THIS COPY OF THE INSTALLATION INSTRUCTIONS SO THEY ARE AWARE OF THE IMPORTANT INFORMATION CONTAINED IN THEM.

TOOLS SUGGESTED

Service manual, Metric and Standard Hex Wrench Sets, Metric and Standard Combination Wrenches Sets, Phillips and Flat Tip Screwdrivers

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.

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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.

Küryakyn®



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.



A FACTORY SERVICE MANUAL WILL 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. IMPROPER INSTALLATION COULD RESULT IN SERIOUS INJURY OR DEATH.

NOTICE

Installation of this kit **REQUIRES** carb re-jetting over and above what may have already been performed for pipe installation. This is a complex procedure and we strongly recommend that this be performed by your dealer or a competent mechanic. If you choose to attempt this on your own, you will need the service manual for this model as carb removal and disassembly instructions are not provided in this literature. **THE FOLLOWING JETTING RECOMMENDATIONS ARE INTENDED AS A STARTING POINT.** Optimal performance and driveability may require fine tuning. Adjustments may be needed for higher altitudes. General rule of thumb is one jet size smaller for every 3000-4000 feet of elevation.

NOTICE

Rejetting and tuning a motorcycle can be a complex task. Due to factors outside of our control, Küryakyn will not be held liable for any labor costs incurred from installation of this kit.

Cobra/Stock Exhaust

Main Jet 117.5
Pilot Jet 35
PMS Screw 1-1/2 Turns Out From Bottom

V&H Style or Open Pipes

Main Jet 120
Pilot Jet 35
PMS Screw 1-1/2 Turns Out From Bottom

NOTICE

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 rejetting carbureted bikes.

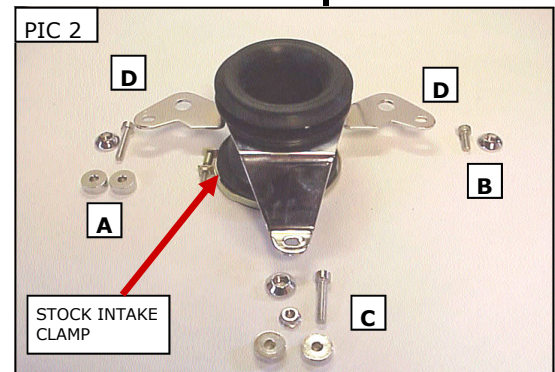
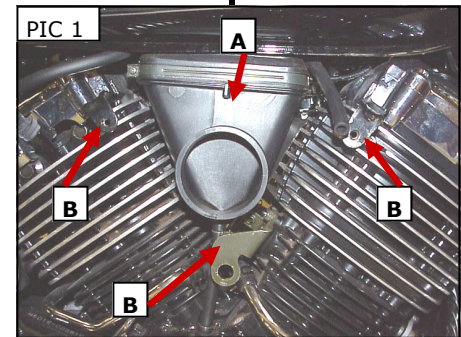
STEP 2

Remove the stock air cleaner and components to the point shown in PIC.1. The stock plastic airbox adapter "A" and stock mounting brackets "B" will remain in place.

STEP 3

Insert both flanges of the rubber adapter through the mounting bracket as shown in PIC.2. The hardware components used for installation are placed near their respective mounting points:

- "A" Socket head cap screw - 30mm long, tapered bolt cap, and two spacers. The spacers are placed between the chrome, and the stock mounting brackets.
- "B" Socket head cap screw - 15mm long, tapered bolt cap
- "C" Socket head cap screw - 30mm long, tapered bolt cap, two spacers (place between chrome and stock brackets), and flange nut.
- "D" Mounting holes.



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HYPERCHARGER for YAMAHA

INSTALLATION

STEP 4 The opening in the adapter boot must be slipped over the flange of the stock airbox and secured with the stock clamp. Install the mounting bracket as shown in PIC.3. Secure this assembly to the bike with the hardware specified in the previous step.

STEP 5 See PIC.4. Plug the extension into the float bowl vent hose and add the short section of hose included. This will plug into the 90 degree fitting on the back side of the Hypercharger.

STEP 6 See PIC.5. This step can be performed without disassembling the air cleaner. The front half was removed here for a better picture. Only the round "trap door" need be removed. "Work" the radiused flange of the adapter into the inlet hole of the air cleaner.

STEP 7 See PIC.6. Fold the radiused flange back to expose the three mounting holes. Secure the air cleaner to the bracket using the three 1/4"-20x1/2" Socket head cap screws and Nylock nuts.

STEP 8 Replace the trap door on the Hypercharger. Connect the newly extended float bowl vent hose to the 90° fitting installed on the back of the air cleaner. On the left side of the engine, next to the front cylinder you'll see the two chrome lines that go to the fresh air pump. The small rubber hose clamped to these lines is a vacuum hose. Find the splice in this vacuum hose. Remove the splice, and in its place insert the enclosed "T" fitting. Run the enclosed length of vacuum hose from this "T" fitting to the vacuum nipple on the bottom of the Hypercharger.

STEP 9 **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.**

WARNING ROTATE THROTTLE AND CHECK THAT IT MOVES FREELY AND RETURNS TO CLOSED BEFORE STARTING BIKE. FAILURE OF THE THROTTLE TO RETURN COULD RESULT IN LOSS OF CONTROL CAUSING SERIOUS INJURY OR DEATH.

NOTICE 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 provide warranty coverage on products or components lost due to improper installation or lack of maintenance. Periodic inspection and maintenance are required on all fasteners.

