



INSTALLATION

HYPERCHARGER FOR YAMAHA V-STAR 650 9422

PART #	INCLUDED
600163	1 Hypercharger Assembly — Chrome
909422	1 Mounting Kit Including:
400589	1 Rubber Manifold
401012	1 Mounting Bracket
401161	4 M6 Aluminum Spacer
200150	3 1/4"–20 X 5/8" Socket Head Cap Screw
200100	3 1/4"–20 Nylock Nut
609452	1 650 V-Star Jet Kit Including:
401163	2 #35 Pilot Jet
401706	2 117.5 Main Jet
401707	2 120.0 Main Jet
401709	2 122.5 Main Jet
401162	3 M6 Aluminum Tapered Bolt Cap
200450	2 M6 X 1.0 X 30mm Socket Head Cap Screw
200486	1 M6 X 1.0 X 16mm Socket Head Cap Screw
200373	1 6MM Serrated Flange Lock Nut
200426	3 M6 Flat Washer
400086	1 18" Hose
400325	1 90 Degree Elbow
401165	1 5" Hose
401166	1 Aluminum Pipe, 3/8" X 1-1/4", Hose Splice
400859	1 Three Way "T" Fitting — Barbed Nylon
309422	1 Installation Instructions

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 drive-ability 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.

IMPORTANT

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

Cobra/Stock Exhaust

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

V&H Style or Open Pipes

Main Jet	122.5
Pilot Jet	35
PMS Screw	1-1/2 Turns Out From Bottom

-cont.-

CUSTOMER SERVICE

877.370.3604 (toll free)

INSTALLATION QUESTIONS

techsupport@kuryakyn.com
or call 715.247.2983

LIMITED WARRANTY

Kuryakyn warrants that any Kuryakyn 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:

- Kuryakyn 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.

- Kuryakyn makes no warranty, expressed or implied, with respect to any gold plated products.

- Kuryakyn shall not be liable for any consequential and incidental damages, including labor and paint, resulting from failure of a Kuryakyn product, failure to deliver, delay in delivery, delivery in nonconforming condition, or for any breach of contract or duty between Kuryakyn and a customer.

- Kuryakyn products are often intended for use in specific applications. Kuryakyn makes no warranty if a Kuryakyn product is used in applications other than intended.

- Kuryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. Components of Kuryakyn products containing L.E.D.s will be warranted for defects in materials and workmanship for 3 years from the date of purchase.

- Kuryakyn makes no warranty of any kind in regard to other manufacturer's products distributed by Kuryakyn. Kuryakyn 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

You'll find all our innovations for H-D, GL and Metric Cruisers in our annual catalogs. Order online today—select the "CATALOGS" icon. Each Kuryakyn™ product comes with a Proof-of-Purchase good for a complimentary catalog. Details in packaging.

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

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TOOLS SUGGESTED

Service manual, Metric and Standard Allen wrench sets, Metric and Standard combination wrenches sets, 1/4" 12 point combination wrench, Phillips and flat tip screwdrivers

Kuryakyn™

PROCEDURE

STEP 1 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 2 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.

STEP 3 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.

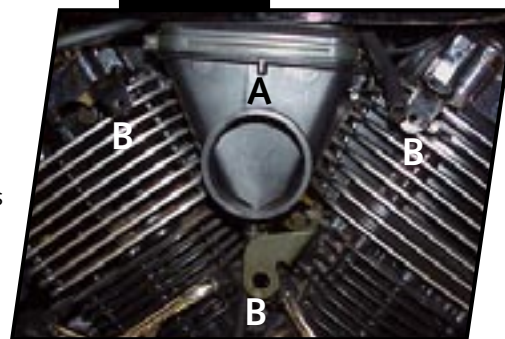
STEP 4 See PIC.4. Plug the extension into the float bowl vent hose and add the short section of hose included. This will plug into the 90 degree fitting on the back side of the Hypercharger.

STEP 5 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.

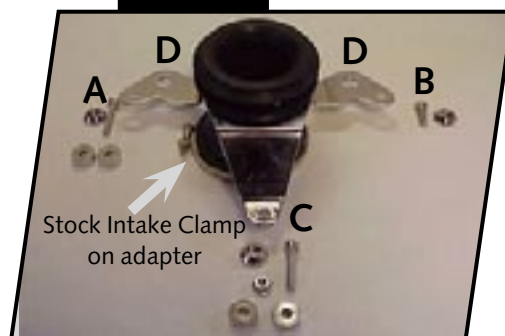
STEP 6 See PIC.6. Fold the radiused flange back to expose the three mounting holes. Secure the air cleaner to the bracket using the three 1/4-20x1/2" Socket head cap screws and Nylock nuts.

STEP 7 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.

PIC.1



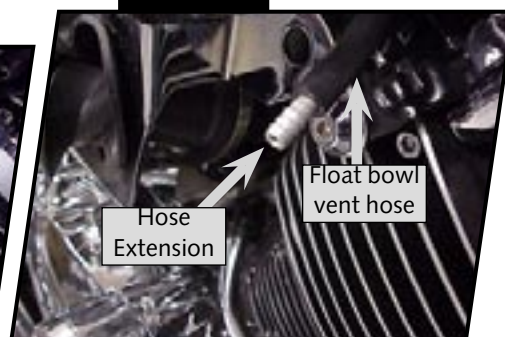
PIC.2



PIC.3



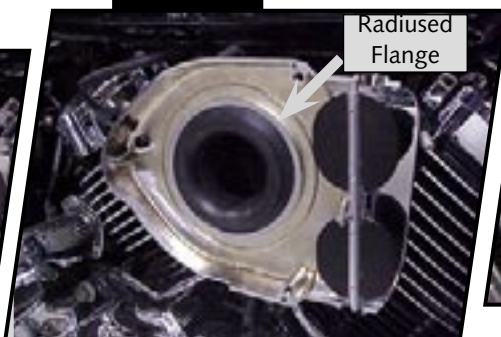
PIC.4



PIC.6



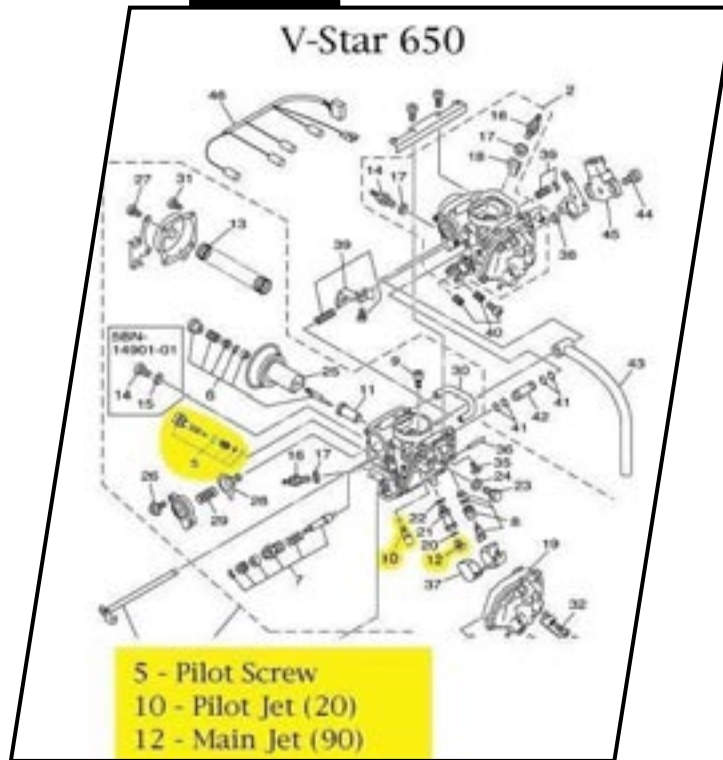
PIC.5



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FIG.1



Ride On!

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