



INSTALLATION



HYPERCHARGER FOR VTX1300 9431

FITS: HONDA VTX1300C AND RETRO

PART #	INCLUDED
500163	1 Hypercharger Assembly Including The Following Items: 5 Screws in Plastic Bag Described as the Following 3 Items 3 Screws to secure Hyper Front to Back 2 Screws to be used in Hyper End Cap 2 Washers
400541	1 Hyper Filter Round
909431K	1 Adaptor Hardware Kit Including the Following: 1 Carb Manifold 1 Main Support Bracket 1 Idle Cable Bracket 1 Carb Top/Inner Cup/90 Degree Top Bracket Assembly 1 26 Degree Front Cylinder Bracket 1 26 Degree Rear Cylinder Bracket 1 Black Gasket Fuel Safe for Manifold Bracket 2 1/4"-20 x 3/8" HHCS Chrome 2 1/4"-20 Low Crown Acorn Nut 2 1/4" Split Lock Washer 3 M5 x .8 x 16mm HHCS 18-8 3 M5 Split Lock Washer 1 M6 Aluminum Tapered Bolt Cap 1 M6 x 1.0 x 30mm SHCS 3 1/4"-20 x 1/2" SHCS Alloy W/Patch 1 5/16" Spring Steel Wire Clamp 1 7/16" Spring Steel Wire Clamp 1 Grey Vinyl Cap 1 Gasket, Late Style W/Adhesive 2 90 Degree Barbed Fitting – Male 1/8"-27 Threaded 1 3/16" Tee, Barbed Mini 3-Way 1 5/32" Hose 12" Long
609431JK	1 Jet Kit to Include The Following 1 #65 Pilot Jet 1 #185 Main Jet 1 0.8mm Needle Shim
309431	1 Installation Instructions

THANK YOU FOR CHOOSING KURYAKYN!

DISCLAIMER – PLEASE READ BEFORE PROCEEDING

Any modifications to a motorcycle's exhaust or intake tract require carburetor re-jetting to achieve maximum performance and maintain drivability. If you are uncomfortable with the process of tuning your carburetor, we recommend that you bring your motorcycle to a qualified motorcycle mechanic to have this kit installed. The jets included in this kit were selected based on test results with various combinations of components that we felt would represent the majority of the customers purchasing this kit (see Addendum I). However, no two motorcycles are exactly alike. Depending on the individual case, additional jets may need to be purchased from an outside source.

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9431-12MC-0705

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.

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• 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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Küryakyn 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.

Küryakyn™

TOOLS SUGGESTED

Full Set of Metric and Standard Allen Wrenches, Full Set of Metric and Standard Open-end Wrenches, Pliers, and Short Phillips Screw Driver

PROCEDURE

STEP 1 Remove the seat and rear-mounting bolt on the fuel tank.

STEP 2 Prop up the rear of the tank; a small block of wood works well.

STEP 3 Remove your stock air cleaner and spark plug covers. You may want to ask a friend to hold and lift the tank slightly as you work the air box out from beneath, slide it toward the rear of the bike and then out.

STEP 4 Remove the two hoses that are connected to the back of the air box. Take note of the three hoses marked as A, B, and C in [PIC.1](#). The hose marked as A should be taken free of the metal retaining loop on the side of the carb. The hose marked as B should be capped off using the included gray vinyl cap and the hose marked as C should be routed up behind and over the top front side of the carb. See [PIC.2](#).

STEP 5 Remove and set aside the two bolts marked as "D" in [PIC.2](#). They will be reused.

STEP 6 Re-jet carburetor. Refer to factory service manual for disassembly procedure and to **Addendum I** for baseline jetting recommendations.

STEP 7 Cut the vacuum hose located on the upper right side of the carburetor and install the supplied "T" fitting. Cut a 9-inch length from the vacuum line supplied in the kit and connect it to the open leg of the "T". See [PIC.3](#). The other end of this hose will be connected to the Pro-Series Hypercharger later.

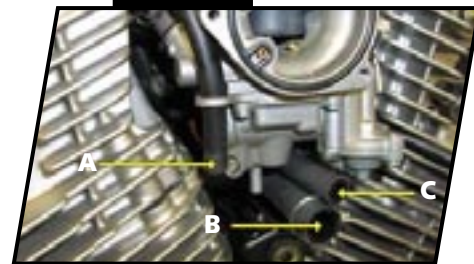
STEP 8 Insert the two supplied 1/4"-20 X 3/8" Hex Head Cap Screws through each side of the 90-degree top bracket on the Chrome Carburetor Top/Inner Cup, through the Front and Rear 26 Degree Cylinder Brackets and fasten with the supplied 1/4" Chrome Split Lock Washers and Acorn Nuts. Do not tighten the fasteners completely at this time, leave them finger tight. See [PIC.4](#).

STEP 9 Take note of the raised boss near the front, right screw on the stock carburetor top; the new Chrome Carburetor Top/Inner Cup also has this raised boss and must be installed in the same orientation. While holding the stock carburetor top in place against the tension of the slide spring, carefully remove the four Phillips screws securing it to the carburetor. Set the screws aside and slowly remove the stock carburetor top allowing the slide spring extend out of the carburetor body. Leave the slide spring in place and be careful not to disturb the slide diaphragm.

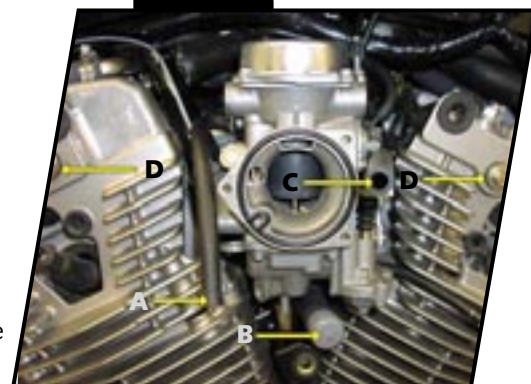
STEP 10 Using the stock fasteners, carefully install the Chrome Carburetor/Inner Cup – Cylinder Bracket assembly. Make sure the slide spring is centered in the new top, the slide diaphragm is in place in the carburetor body, and that the raised boss is in the correct orientation as noted in STEP 9. See [PIC.5](#).

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PIC.1



PIC.2



PIC.3



PIC.4



PIC.5



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HYPERCHARGER FOR VTX1300

INSTALLATION

STEP 11 Securely attach the 26 Degree Cylinder Brackets to the cylinder heads using the stock fasteners removed in STEP 5. Tighten the fasteners securing the 26 Degree Cylinder Brackets to the Chrome Carburetor Top/Inner Cup now as well.

STEP 12 Loosely mount the Main Support Bracket. Install the supplied M6 X 1.0 X 30mm Socket Head Cap Screw and the Chromed, Tapered Bolt Cap at the bottom of the bracket. With the supplied gasket on the outside of the bracket, start an M5 X .80 X 16mm Hex Head Cap Screw with an M6 Split Lock Washer in the lower right air cleaner mounting hole. See [PIC.6](#).

STEP 13 Thread one of the supplied 90-Degree Elbows into the threaded hole on the side of the Carburetor Manifold included in the kit. Put the Carburetor Manifold in place, slipping the slotted mounting hole into position on the fastener you installed in the previous step. Install the M5 X .8 X 16mm Hex Head Cap Screws with M5 Split Lock Washers in the remaining two mounting holes. Once all fasteners are in place, tighten them all securely. Connect hose C from STEP 4 to the 90-Degree Elbow with the supplied 7/16" Spring Wire Clamp. See [PIC.7](#).

STEP 14 Adhere the supplied Adhesive Gasket to the exposed end of the Carburetor Manifold. See [PIC.7](#).

STEP 15 Install the remaining 90 Degree Elbow into the threaded hole on the back of the Pro-Series Hypercharger.

STEP 16 Remove the outer half of the Pro-Series Hypercharger body and the filter element. The outer half is secured with three socket head screws. It is also necessary to remove the outer two socket head cap screws from the "PRO" embossed butterfly shaft caps. Using the three supplied 1/4"-20 X 1/2" Socket Head Cap Screws, fasten the inner half of the Pro-Series Hypercharger to the Carburetor Manifold. Reinstall the filter element and the outer half of the Pro-Series Hypercharger.

STEP 17 Connect Hose A to the 90-Degree fitting you installed on the back of the Pro-Series Hypercharger in STEP 13. Connect the vacuum line from the "T" fitting to the vacuum nipple on the bottom of the Pro-Series Hypercharger vacuum pod.

STEP 18 Set the fuel tank back in place and secure with the stock fastener. Reinstall your spark plug covers, and put the seat back on.

ADDENDUM I

The following recommendations are to be used as a starting point only, but should work well in the majority of cases. Individual bikes may need additional tuning to achieve maximum performance. These baselines were established at 700 feet above sea level.

VTX 1300 with Pro-Series Hypercharger and Stock Pipes

#65 Pilot Jet
#185 Main Jet
0.8 Shim under needle

VTX 1300 with Pro-Series Hypercharger with Hard Chrome 2.5" Classic Straights

#65 Pilot Jet
#185 Main Jet
0.8 Shim under needle

VTX 1300 with Pro-Series Hypercharger, Stock headers and Cobra Slash-Cut Slip-on Mufflers

#65 Pilot Jet
#185 or a #182.5 Main Jet
0.8 Shim under needle

PIC.6



PIC.7

