



INSTALLATION



HI-FIVE MACH 2 AIR CLEANER 9478

PARTS INCLUDED

- 1 Hi-Five Mach 2 Air Cleaner Assembly
- 1 Hardware Kit
 - 5 1/4-20 x 3/4" Chrome Socket Head Cap Screws
 - 3 1/4-20 x 1" Socket Head Cap Screws
 - 3 1/4-20 x 1-1/4" Socket Head Cap Screws
 - 1 Air Lock Ring
 - 1 Ring Adapter
 - 1 Dual Velocity Ring
 - 1 Filter Element
- 1 Adapter Hardware for VTX1300
 - 1 Carb Manifold
 - 1 Support Bracket
 - 1 Carb Top
 - 2 1/4-20 x 1/2" Chrome Hex Head Cap Screws
 - 2 1/4-20 Acorn Nuts
 - 2 1/4" Split Lock Washers
 - 3 M5 x 0.8 x 16MM Hex Head Cap Screws
 - 3 M5 Split Lock Washers
 - 1 M6 x 1.0 x 30MM Socket Head Cap Screw
 - 3 1/4-20 x 1/2" Socket Head Cap Screws
 - 1 Rubber Cap
- 1 Jet Kit for VTX1300
 - 1 #65 Pilot Jet
 - 1 #185 Main Jet
 - 1 0.8MM Needle Shim
- 1 Installation Instructions

NOTE! The items listed above are the most commonly used items in this kit. Not all included hardware will be used for installation. There may be excess hardware after installation.

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.

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

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

TOOLS SUGGESTED

Set of Hex Wrenches, Phillips Screwdriver, Combination Wrenches, Socket Set with Ratchet

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. Components of Küryakyn products containing L.E.D.s will be warranted for defects in materials and workmanship for 3 years from the date of purchase.
- 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.

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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 Küryakyn® product comes with a Proof-of-Purchase good for a complimentary catalog. Details in packaging.

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

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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. However, no two motorcycles are exactly alike. Depending on the individual case, additional jets may need to be purchased from an outside source. 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.

PROCEDURE

STEP 1 Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface; turn off the ignition and allow the engine to cool.

STEP 2 Remove the seat and rear-mounting bolt on the fuel tank.

STEP 3 Prop up the rear of the tank; a small block of wood works well.

STEP 4 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 5 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 left in the metal retaining loop on the side of the carb - make sure this hose is not pinched or kinked. The hose marked as B should be capped off using the included gray vinyl cap. The hose marked as "C" should be routed up behind and over the top front side of the carb. See PIC.2.

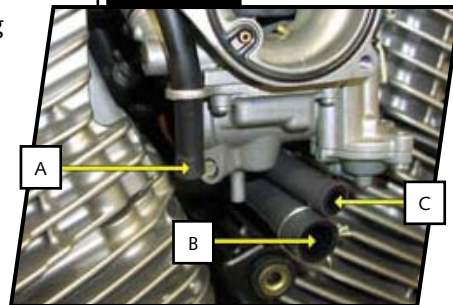
STEP 6 Remove and set aside the two bolts marked as "D" in PIC.2. They will be reused.

STEP 7 Re-jet carburetor. Refer to factory service manual for disassembly procedure and to the last page of this instruction for baseline recommendations. The OEM carb top will be replaced so there is no need to reinstall it after shimming the needle.

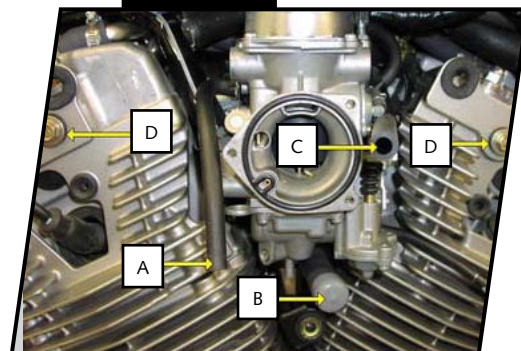
STEP 8 Insert the two supplied 1/4"-20 X 3/8" Hex Head Cap Screws through each side of the 90 Degree top bracket on the Chrome Carburetor Top/Inner Cup, through the Front and Rear 26 Degree Cylinder Brackets and fasten with the supplied 1/4" Chrome Split Lock Washers and Acorn Nuts. See PIC.3.

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PIC. 1



PIC. 2



PIC. 3



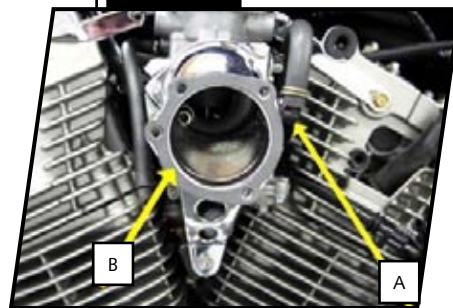
PIC. 4



PIC. 5



PIC. 6



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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 new Chrome Carburetor Top/Inner Cup. 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.4.

STEP 11 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.5.

STEP 12 Thread one of the supplied 90 Degree Elbows into the threaded hole on the side of the Carburetor Manifold included in the kit (labeled as "A" in PIC.6). Put the Carburetor Manifold in place, slipping the slotted mounting hole into position on the fastener you installed in STEP 11. Install 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 5 to the 90 Degree Elbow with the supplied 7/16" Spring Wire Clamp. See PIC.6.

STEP 13 Hold the air lock ring in place over the intake flange (PIC 7). Line up the holes from the air lock ring with the threaded holes in the intake flange.

STEP 14 Using the 1/4-20 x 1" Socket Head Cap Screws, secure the backing plate to the throttle body flange as shown in PIC 8. Be sure that the air lock ring is in place between the backing plate and the intake flange. Tighten the hardware.

STEP 15 As shown in PIC 9, snap the dual velocity ring in place. The ring should be positioned as shown with the open hole positioned in the 10 o'clock position.

STEP 16 Install the air filter to the backing plate. The air filters press on and should hold in place.

STEP 17 Install the screen mesh inside the Hi-Five Mach 2 cage and hold in place over the air filter installed in Step 16.

STEP 18 Secure using the chrome 1/4-20 x 3/4" Socket Head Cap Screws. Tighten all hardware.

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

HI-FIVE MACH 2 WITH MEDALLION

STEP 1 Follow Steps 1-16 above.

STEP 2 Flip the Hi-Five Mach 2 cage over (PIC 10) and remove the 5 small screws. Be careful not to lose any hardware during this step, the screws are very small.

NOTE The center star section and 5 "L" shaped pieces can now be removed (PIC 11).

STEP 3 As shown in PIC 12, place the adapter ring in place on the front side of the cage and secure using the 5 small screws removed in Step 2 from the backside.

STEP 4 Install the screen mesh inside the Hi-Five Mach 2 cage and hold in place over the air filter installed on the backing plate.

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PIC. 7



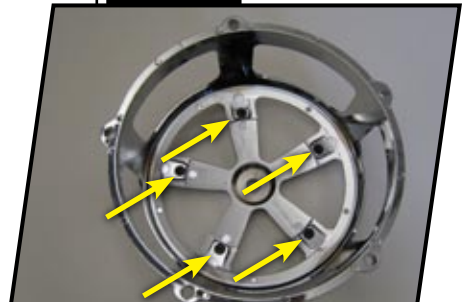
PIC. 8



PIC. 9



PIC. 10



PIC. 11



PIC. 12



STEP 5 Secure using the chrome 1/4-20 x 3/4" Socket Head Cap Screws. Tighten all hardware.

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

ATTENTION! The adhesive will not bond correctly if applied at temperatures less than 50°F. Do not attempt this installation in temperatures less than 50°F.

STEP 6 Clean the face of the adapter ring. Dry the mounting area completely.

ATTENTION! Ensure the area of installation is free of grease, oil, dirt or other debris to ensure proper adhesion. Kuryakyn WILL NOT issue a warranty on any parts lost due to improper installation.

STEP 7 Remove the tape backing on the medallion, position the medallion as desired and apply to the adapter ring. Press and hold in place for one minute. Full bonding strength will occur in 24 hours.

TUNING

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 Velociraptor and stock pipe

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

VTX 1300 with Velociraptor and Hard Chrome 2.5" Classic Straights

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

VTX 1300 with Velociraptor, Stock headers and Cobra Slash-Cut Slip-on Mufflers

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

Ride On!

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