



INSTALLATION

PRO-R HYPERCHARGER FILTER KIT

9322

PARTS INCLUDED

- 1 Chrome Pro-R Hypercharger Assembly with Hardware Bag Containing:
 - (3) 1/4"-20 X 1-5/8" (2) #6-32 X 3/8" (2) #6 Washers—**NOT USED**
- 1 Foam Air Filter/Dual Velocity Ring in Bag Inside Hypercharger Assembly
- 1 K&N Air Filter
- 1 Support Bracket
- 1 Breather Hardware Kit, including:
 - 2 1-1/4" Breather Bolts
 - 2 Breather Hoses
 - 4 Shim Washers
- 1 Twin Cam Breather Kit, Including:
 - 1 Breather Adapter/Spacer
 - 1 90° Barbed Fitting 1/8 NPT
 - 2 Straight Barbed Fitting 1/4-28
 - 1 16" Vacuum Hose
 - 1 Barbed "T" Fitting
 - 3 1/4"-20 x 1-1/2" Socket Head Cap Screw—SHCS
 - 1 Gasket with Adhesive
 - 2 Gasket without Adhesive
 - 4 4" Nylon Cable Ties
- 1 Delphi Vacuum Adapter
- 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

Set of Hex Wrenches, Set of Combination Wrenches, Set of Torx Wrenches, Needle Nose Pliers, Side Cutters, Factory Service Manual

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.

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.

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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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

Some of our high performance air cleaners extend beyond the stock/OEM unit to achieve smoother air flow and better performance. Riding position may be affected, so it is important to familiarize yourself with the new riding position.

NOTICE

Proper tuning is important. We recommend carbureted bikes should be rejetted and fuel injected bikes should be tuned with a TTS MasterTune tuning system (calibrations available at www.kuryakyn.com), or by an experienced tuner, on a dyno, with an exhaust gas analyzer. 2007 and later Harley Twin Cams run especially lean combined with retarded ignition timing. Lean conditions and/or retarded ignition timing will cause high exhaust temperatures discolor chrome exhaust and can cause engine overheating resulting in severe engine damage.

For '06-up Fuel Injected Models

NOTICE

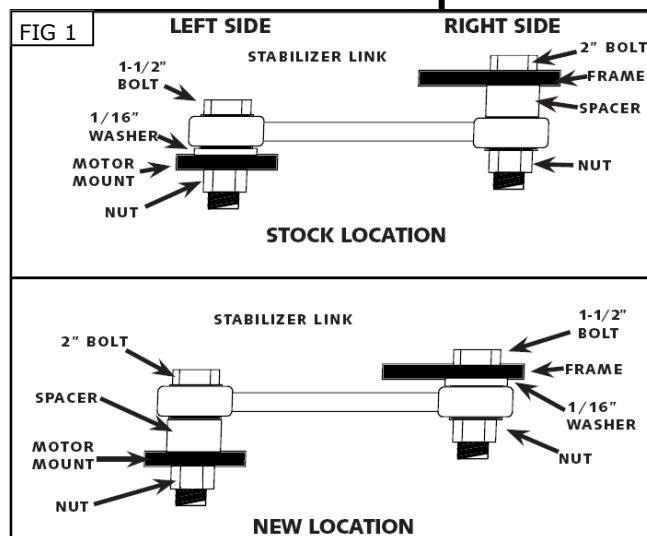
THE POSSIBILITY OF CONTACT BETWEEN THE HYPERCHARGER AND THE FUEL TANK EXISTS ON '06-LATER DYNA MODELS. THE FOLLOWING STEPS MUST BE TAKEN DURING INSTALLATION TO ENSURE ADEQUATE CLEARANCE:

- Apply downward pressure to the right (front cylinder) side of the support bracket as the breather bolts are tightened. At the same time, you must ensure that the three 1/4"-20 threaded holes in the throttle body line up with the corresponding holes in the support bracket.
- Rotate the Hypercharger assembly clockwise and down as the three 1/4"-20 x 1-1/2" socket head cap screws are tightened to provide maximum fuel tank clearance.
- Immediately after installation, verify there is adequate clearance between the Hypercharger assembly and the tank with motorcycle at idle and under load.

KURYAKYN WILL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO ENSURE PROPER CLEARANCE.

NOTE: The following photos show the throttle body removed from the motorcycle for clarity. You DO NOT have to remove the throttle body to perform this installation.

- STEP 2** Remove the seat and fuel tank; refer to your factory service manual for specific instructions.
- STEP 3** Remove the air cleaner; refer to your factory service manual for specific instructions.
- STEP 4** Remove the throttle and idle cables (and cruise control cable, if fitted); refer to your factory service manual for specific instructions.
- STEP 5** **For DYNA models only:** On Dyna models, there is not adequate clearance for the MAP sensor after the vacuum adapter is installed. You must remove and reposition the stabilizer link hardware to allow sufficient clearance for the MAP sensor. Locate the stabilizer link between the frame and the motor mount. PIC 1 Remove the stock hardware and re-install in the new location following the diagram in FIG 1.



STEP 6 Remove the two wiring harnesses going to the MAP (manifold air pressure) sensor and the IAC (idle air controller) unit.

STEP 7 Remove the IAC bracket; remove the MAP sensor. PIC 2

STEP 8 Assemble the vacuum adapter. Install the rubber manifold air pressure seal onto the adapter body. PIC 3 Install the vacuum adapter on the MAP sensor. Be sure the orientation of the hose barb is correct. PIC 4

STEP 9 Install the IAC bracket on the throttle body. **DO NOT** tighten the fasteners yet. Be sure the peg on the bottom of the MAP sensor fits into the alignment hole on the throttle body. PIC 5

STEP 10 Insert the MAP sensor assembly into the throttle body. The vacuum adapter body fits under the tab on the IAC bracket. Be sure the orientation of the hose fitting is correct. PIC 6 Tighten the fasteners on the IAC bracket.

STEP 11 Connect one end of the vacuum hose included with the Hypercharger to the hose fitting on the vacuum adapter. Connect the wiring harnesses to the MAP sensor and the IAC unit.

STEP 12 Reconnect the throttle and idle cables (and cruise control, if fitted). Install the air cleaner, fuel tank and seat; refer to your service manual for specific instructions.

STEP 13 Remove the backing from the included adhesive backed gasket and attach it to the mouth of the throttle body, lining up the holes. Place the chrome support bracket across the mouth of the throttle body and loosely attach it to each head with the included breather bolts. Make sure all three mounting holes and the float bowl vent hole (10-o'clock position) are centered in the corresponding slots in the support bracket.

NOTICE

Be sure the support bracket contacts each head when it is in place across the front of the throttle body. If there is a gap between the heads and the support bracket, use the included shim washers to eliminate this gap. Tightening the breather bolts when a gap is present here will likely result in a broken bracket within a short period of time.

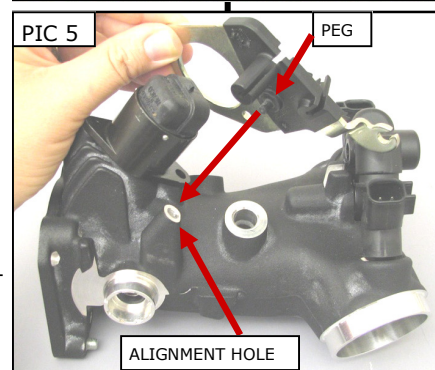
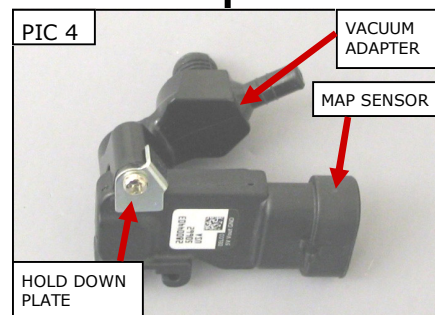
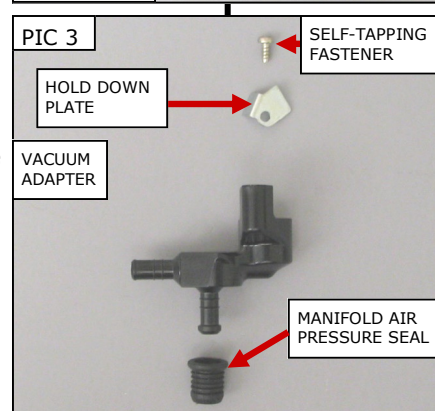
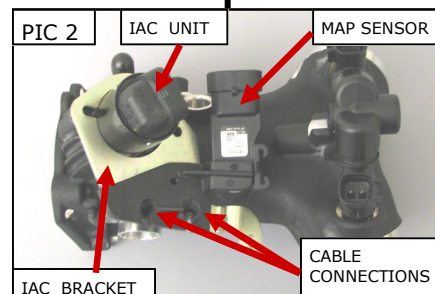
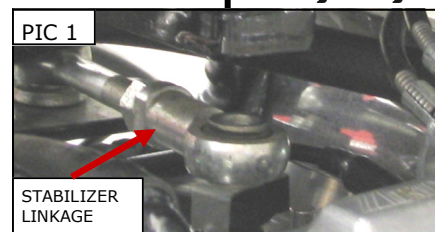
STEP 14 When you have the support bracket properly fit, tighten the breather bolts securely.

STEP 15 Trim 1/4" from each end of **ONE** of the supplied breather hoses. Install this hose between the front head and the 90° fitting on the breather adapter.

STEP 16 Install the remaining breather hose between the rear breather bolt and the straight barbed fitting on the breather adapter. Secure the ends of the two hoses with the supplied cable ties; trim the cable tie ends. PIC 7

STEP 17 Locate the Hypercharger Back Plate. Insert the three 1/4"-20 X 1-1/2" socket head cap screws through the mounting holes in the back plate from the inside. Place one of the included non-adhesive backed gaskets over the three mounting screws now protruding from the back of the Hypercharger back plate. **DO NOT** place a bolt through the float bowl vent hole - this hole is the one in the 10-o'clock position.

STEP 18 While holding a gasket in place between the breather adapter and support bracket- **at this time you should have three gaskets installed, one directly behind the Hypercharger back plate, one between the breather adapter / support bracket and one between the support bracket / throttle body**-secure the assembly to the throttle body. **DO NOT** over tighten the fasteners; the aluminum will strip easily.



STEP 19

Position the black plastic Dual Velocity ring into position over the bolts attaching the Hypercharger back plate to the carb so that the hole lines up with the empty float bowl vent hole located at the 10 o'clock position. PIC 8 This will snap into place.

STEP 20

Place the K&N air filter onto the back plate (there is a raised lip on the back plate that the K&N filter will fit around PIC 8). Place the round foam filter into the front opening of the K&N air filter.

STEP 21

Locate the hardware bag that was with the Back Plate. Place the Front Cover over the filters (there is a recess in the front cover that will fit over the round foam filter PIC 9) and secure it to the back plate with the three 1/4"-20 X 1-5/8" fasteners finger tight. Thread one of the #6-32 X 3/8" fasteners through the top and bottom butterfly caps and into the front cover. Tighten the #6-32 X 3/8" securely. Tighten the 1/4"-20 X 1-5/8" fasteners securely.

STEP 22

Plug the rubber vacuum hose into the air jet on the bottom of the vacuum pod on the back of the Hypercharger.

STEP 23

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.



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.



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.

For Carbureted Models Only — Procedure

STEP 2

Remove the stock air cleaner assembly.

STEP 3

Use needle nose pliers to remove the vacuum hose from the vacuum tap on the rear of the carburetor. PIC 10 This step may require the removal of the carburetor from the intake manifold; consult your factory service manual.

STEP 4

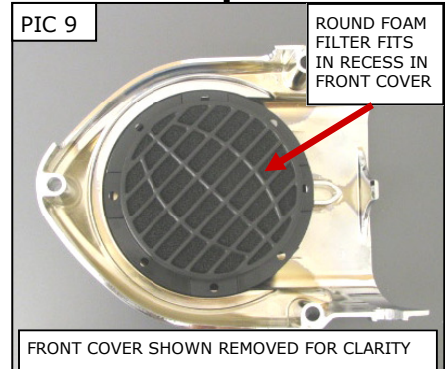
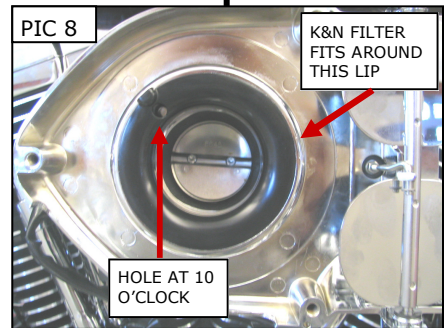
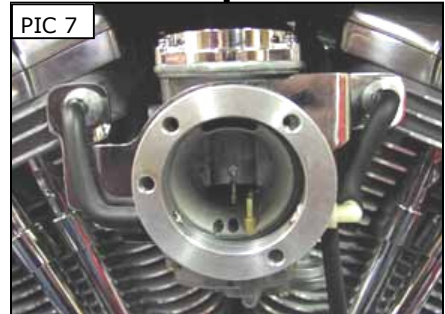
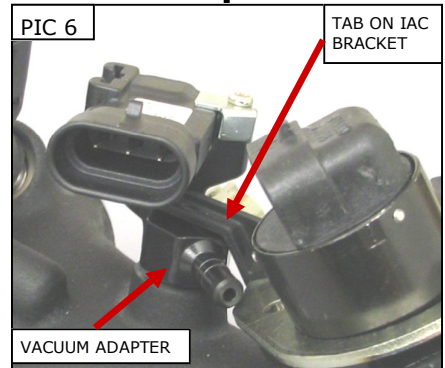
Cut a 1-1/2" length of vacuum hose from the vacuum hose provided. Connect the vacuum lines to the barbed "T" fitting as shown in PIC 11. Reconnect the vacuum line assembly to the carburetor as shown in PIC 12.

STEP 5

If the carburetor was removed in STEP 3, reinstall it now. Be sure the carburetor is fully seated in the manifold; wetting the rubber seal may make this easier.

STEP 6

Remove the backing from the included adhesive backed gasket and attach it to the mouth of the carb, lining up the holes. Place the chrome support bracket across the mouth of the carb and loosely attach it to each head with the included breather bolts. Make sure all three mounting holes and the float bowl vent hole (10-o'clock position) are centered in the corresponding slots in the support bracket.



NOTICE

Be sure the support bracket contacts each head when it is in place across the front of the throttle body. If there is a gap between the heads and the support bracket, push the carb inward to eliminate this gap or, if this doesn't eliminate the gap, use the included shim washers to eliminate this gap. Tightening the breather bolts when a gap is present here will likely result in a broken bracket within a short period of time.

- STEP 7** When you have the support bracket properly fit, tighten the breather bolts securely.
- STEP 8** Trim 1/4" from each end of **ONE** of the supplied breather hoses. Install this hose between the front head and the 90° fitting on the breather adapter.
- STEP 9** Install the remaining breather hose between the rear breather bolt and the straight barbed fitting on the breather adapter. Secure the ends of the two hoses with the supplied cable ties; trim the cable tie ends.
- STEP 10** Locate the Hypercharger Back Plate. Insert the three 1/4"-20 X 1-1/2" socket head cap screws through the mounting holes in the back plate from the inside. Place one of the included non-adhesive backed gaskets over the three mounting screws now protruding from the back of the Hypercharger back plate. **DO NOT** place a bolt through the float bowl vent hole - this hole is the one in the 10-o'clock position.
- STEP 11** While holding a gasket in place between the breather adapter and support bracket - **at this time you should have three gaskets installed, one directly behind the Hypercharger back plate, one between the breather adapter / support bracket and one between the support bracket / carb**-secure the assembly to the carb. **DO NOT** over tighten the fasteners; the aluminum will strip easily.
- STEP 12** Position the black plastic Dual Velocity ring into position over the bolts attaching the Hypercharger back plate to the carb so that the hole lines up with the empty float bowl vent hole located at the 10 o'clock position. PIC 8 This will snap into place.
- STEP 13** Place the K&N air filter onto the back plate (there is a raised lip on the back plate that the K&N filter will fit around PIC 8). Place the round foam filter into the front opening of the K&N air filter.
- STEP 14** Locate the hardware bag that was with the Back Plate. Place the Front Cover over the filters (there is a recess in the front cover that will fit over the round foam filter PIC 9) and secure it to the back plate with the three 1/4"-20 X 1-5/8" fasteners finger tight. Thread one of the #6-32 X 3/8" fasteners through the top and bottom butterfly caps and into the front cover. Tighten the #6-32 X 3/8" securely. Tighten the 1/4"-20 X 1-5/8" fasteners securely.
- STEP 15** Plug the rubber vacuum hose onto the vacuum pod on the back of the Hypercharger.
- STEP 16** **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.**

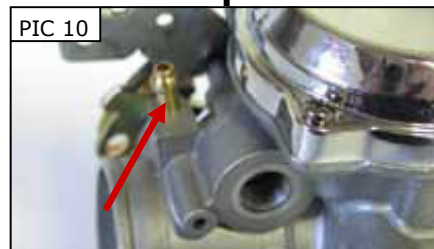
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PIC 10



PIC 11



PIC 12



Ride On!