



PRO-R HYPERCHARGER

9322

Thank You For Choosing Kuryakyn!

Protect yourself and others from potential injury and property damage or loss. Pay close attention to all instructions, warnings, cautions, and notices regarding the installation, 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 or damage the product itself or the product to which it is being attached.

THIS PRODUCT IS NOT LEGAL FOR SALE OR USE ON POLLUTION CONTROLLED VEHICLES.

ENSURE THAT THE FOLLOWING PARTS HAVE BEEN INCLUDED IN THE KIT:

- 1 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
 - 2 Straight Barbed Fitting
 - 1 16" Vacuum Hose
 - 1 Barbed "T" Fitting
 - 3 1/4"-20 x 1-1/2" Socket Head Cap Screws
 - 1 Gasket with Adhesive
 - 2 Gaskets without Adhesive
 - 4 4" Nylon Cable Ties
- 1 Delphi Vacuum Adapter
- 1 Installation Instructions

YOU WILL ALSO NEED:

Set of Hex Wrenches, Set of Combination Wrenches, Set of Torx Wrenches, Needle Nose Pliers, Side Cutters, Model/Year-Specific Service Manual

NOTICE

These installation instructions contain important information. Ensure that the end user receives this copy and is aware of its importance for future use.

WARNING

THE END USER'S SAFETY DEPENDS UPON PROPER INSTALLATION OF THIS PRODUCT. IF A STEP IN THESE INSTRUCTIONS IS NOT WITHIN YOUR CAPABILITIES OR YOU DO NOT HAVE THE CORRECT TOOLS, HAVE YOUR DEALER PERFORM THE PROCEDURE. IMPROPER INSTALLATION OF THIS PRODUCT COULD RESULT IN DEATH OR SERIOUS INJURY.

ACCIDENTAL VEHICLE START-UP COULD CAUSE DEATH OR SERIOUS INJURY, REMOVE THE MAIN FUSE BEFORE PROCEEDING.

INSTALLATION MAY REQUIRE CONTACT WITH THE ENGINE AND EXHAUST SYSTEM; ENSURE THAT IT HAS FULLY COOLED BEFORE BEGINNING TO PREVENT INJURY.

FUEL VAPORS ARE VERY FLAMMABLE! PERFORM THIS INSTALLATION IN A WELL VENTILATED AREA AWAY FROM SPARKS AND OPEN FLAMES. FUEL VAPORS MAY IGNITE CAUSING AN EXPLOSION THAT CAN LEAD TO SERIOUS INJURY OR DEATH.

NOTICE

Avoid damage to the motorcycle. Protect painted surfaces with a soft cloth or blanket.

- STEP 1** Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface and turn **IGN OFF**. Allow the engine and exhaust system to cool. Remove the main fuse.
- STEP 2** Remove the seat and fuel tank; refer to the model/year-specific service manual for procedure.
- STEP 3** Remove the existing air cleaner; refer to the model/year-specific service manual for procedure.
- STEP 4** Remove the throttle and idle cables (and cruise control cable, if fitted); refer to the model/year-specific service manual for procedure.

PROCEDURE FOR FUEL INJECTED MODELS (CARB MODELS SKIP TO STEP 22 ON PAGE 4):

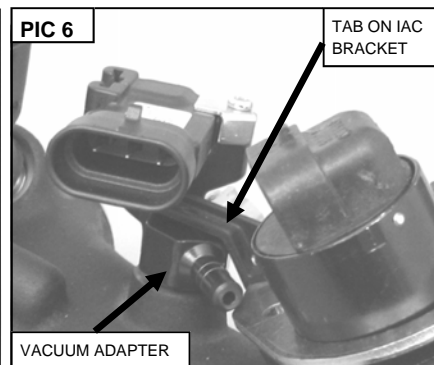
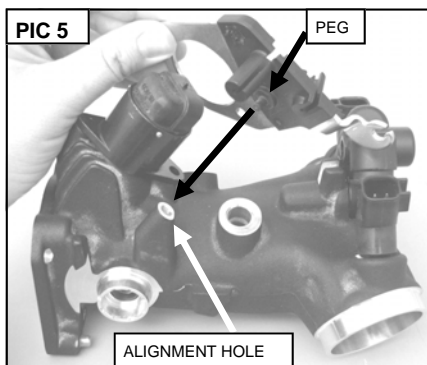
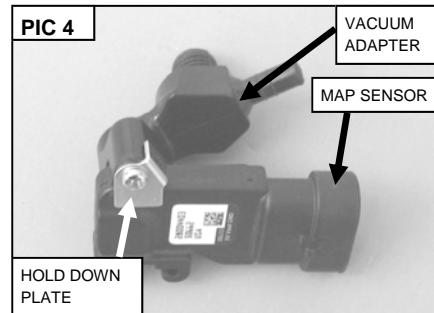
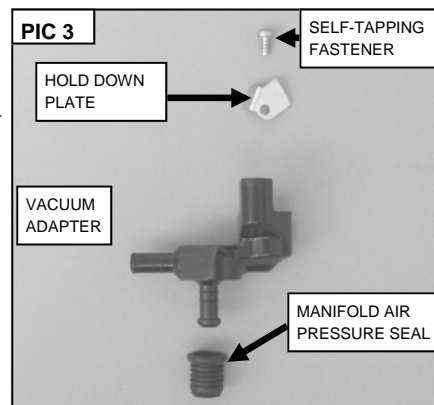
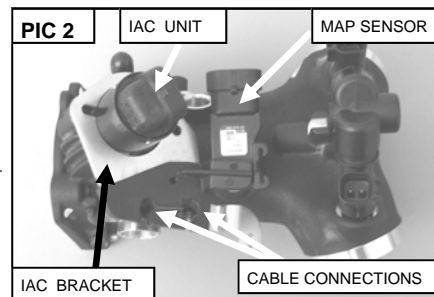
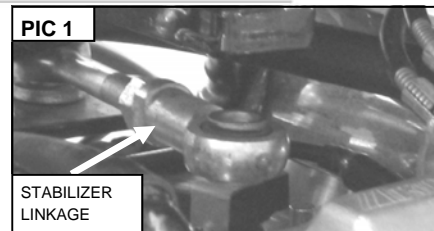
NOTE: **DYNA MODELS ONLY:** Refer to **PIC 1**. There is not adequate clearance for the MAP sensor after the included vacuum adapter has been installed.

You must remove and reposition the stabilizer link hardware to allow sufficient clearance for the MAP sensor. Follow the procedure outlined on **PAGE 4**.

- STEP 5** Refer to **PIC 2**. Disconnect the wiring harnesses going to the MAP (manifold air pressure) sensor and the IAC (idle air controller) unit.
- STEP 6** Refer to **PIC 2**. Remove the IAC bracket; remove the MAP sensor.
- STEP 7** Refer to **PIC 3 and 4**. Assemble the vacuum adapter. Install the rubber manifold air pressure seal onto the adapter body. Install the vacuum adapter on the MAP sensor. Be sure the orientation of the hose barb is correct.
- STEP 8** Refer to **PIC 5**. 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.
- STEP 9** Refer to **PIC 6**. 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. Tighten the fasteners on the IAC bracket.

- STEP 10** 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 11** Reconnect the throttle and idle cables (and cruise control, if fitted). Install the air cleaner, fuel tank and seat; refer to the model/year-specific service manual for procedure.



STEP 12 Remove and discard the adhesive backing from the included gasket; align it with the intake flange and press into place.

Align the chrome support bracket with the intake flange; loosely attach it to each head with the included breather bolts.

Make sure all three mounting holes and the vent hole (10-o'clock position) are centered in the corresponding slots in the support bracket.

Be sure the support bracket contacts each head when it is in place across the front of the intake flange. 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 will result in damage.

Tighten the breather bolts.

STEP 13 Refer to **PIC 7**. Assemble the breather adapter and fittings as shown in **PIC 7**. Trim 1/4" from each end of ONE of the supplied breather hoses. Install the hose between the front head and the 90° fitting on the breather adapter.

STEP 14 Refer to **PIC 7**. 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 15 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 screw through the vent hole - the hole is in the 10-o'clock position.

STEP 16 At this time, there should be three gaskets installed; one directly behind the Hypercharger back plate, one between the breather adapter/support bracket, and one between the support bracket/intake flange.

Secure the assembly to the intake flange with the three screws. **DO NOT over tighten the screws!**

'06-UP Dyna Models only: The following **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 intake flange line up with the corresponding holes in the support bracket. Rotate the Hypercharger assembly clockwise and down as the three screws are tightened to provide maximum fuel tank clearance. Verify there is adequate clearance between the Hypercharger assembly and the tank with motorcycle at idle and under load.

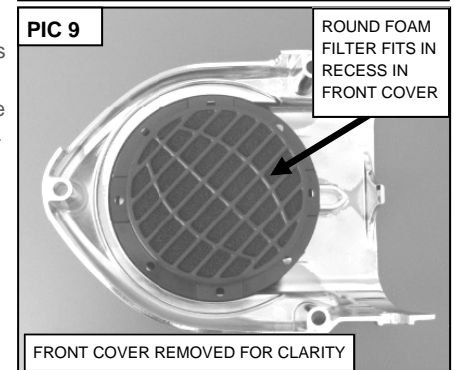
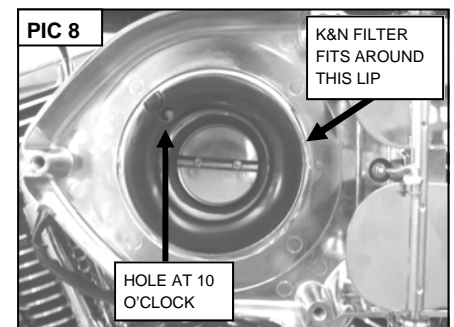
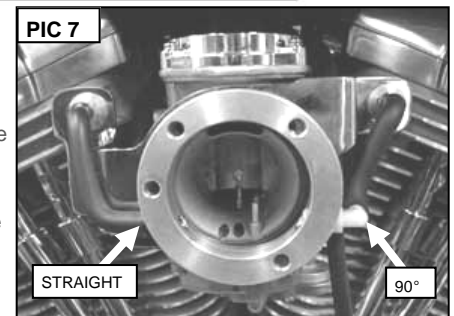
STEP 17 Refer to **PIC 8**. Align the black plastic Dual Velocity ring with the vent hole in the Hypercharger back plate. Press it all the way into place. The ring will "snap" into place.

STEP 18 Refer to **PIC 8 and 9**. Align the K&N air filter with the raised lip on the back plate. Press the round foam filter into the K&N air filter.

STEP 19 Refer to **PIC 9**. Locate the hardware bag that was with the Back Plate. Align the Front Cover over the back plate/filters; ensure that the front cover cut-out fits over the filters; loosely secure it to the back plate with the three 1/4"-20 X 1-5/8" fasteners. 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 20 Plug the rubber vacuum hose into the air jet on the bottom of the vacuum pod on the back of the Hypercharger.

STEP 21 Double check the tightness of all fasteners, re-install the main fuse, check for hose clearance and check throttle for correct operation, making sure it returns properly, before starting bike.

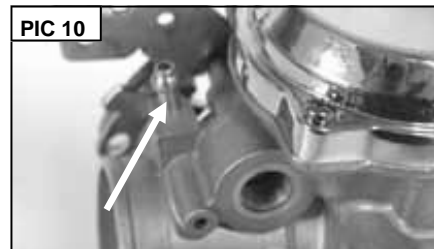


WARNING

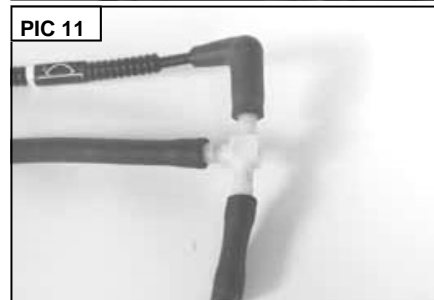
FAILURE OF THE THROTTLE TO RETURN COULD RESULT IN LOSS OF CONTROL CAUSING SERIOUS INJURY OR DEATH.

PROCEDURE FOR CARBURETED MODELS:

STEP 22 Refer to **PIC 10**. Use needle nose pliers to remove the vacuum hose from the rear of the carburetor. This step may require the removal of the carburetor from the intake manifold; refer to model/year-specific service manual.



STEP 23 Cut a 1-1/2" length of vacuum hose from the included vacuum hose. Connect the vacuum lines to the barbed "T" fitting as shown in **PIC 11**.

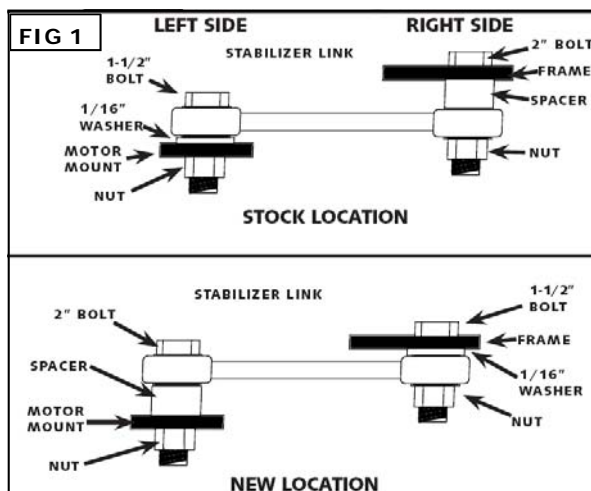


Reconnect the vacuum line assembly to the carburetor as shown in **PIC 12**.

STEP 24 Reinstall the carburetor if it was removed in **STEP 22**. Be sure the carburetor is fully seated in the manifold; lubricating the rubber seal will ease installation.



STEP 25 Follow **STEPS 12 through 21 on PAGE 3** to complete installation.



FUEL INJECTED DYNA MODELS ONLY:

Locate the stabilizer link between the frame and the motor mount. Remove the stock hardware and re-install in the new location following the diagram in **FIG 1**.

Move on to **STEP 5 on PAGE 2**.

NOTICE

Proper tuning is important. Carbureted bikes should be re-jetted and fuel injected bikes should be tuned with a TTS MasterTune tuning system (calibrations available at www.kuryakyn.com) or Vance & Hines FP3 (calibrations available at <http://fp3.vanceandhines.com/download>) by an experienced tuner, on a dyno, with an exhaust gas analyzer.

It is the end user's responsibility to ensure that all fasteners (including pre-assembled) are tightened before operation of the motorcycle. Kuryakyn will not provide warranty coverage on products or components lost or damaged due to improper installation or lack of maintenance. Periodic inspection and maintenance are required on all fasteners.

LIMITED WARRANTY

Kuryakyn warrants that any Kuryakyn products sold hereunder, shall be free of defects in materials & workmanship for a period of one (1) year from the date of purchase by the consumer excepting the following provisions:

1. 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).
2. The product must be properly installed, maintained & operated under normal conditions.
3. Kuryakyn shall not be liable for any consequential & incidental damages, including labor & 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 & a customer.
4. 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.
5. Kuryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. L.E.D.'s contained in components of Kuryakyn products will be warranted for defects in materials & workmanship for 3 years from the date of purchase whereas all other components shall be warranted for one (1) year.
6. Merchandise purchased directly from Internet auction sites or any other third party seller is considered sold as is & shall not carry a Kuryakyn warranty. All warranty claims must be directed to the original seller. If unsure please contact the seller to verify they are an authorized Kuryakyn retailer.

RETURN POLICY

Merchandise determined to be defective may be returned up to one year from the date of purchase. Returns must be processed through original seller. Returned merchandise for any other reason other than warranty claims must be in like new condition & subject to a 20% restocking fee. All returns are subject to inspection for determination of full or partial credit. Any returned part that shows evidence of being used or installed contrary to manufacturer's instructions, &/or subjected to improper handling, packaging or return shipping by the customer, will not be eligible for exchange, refund or warranty consideration. All returned electrical items will be inspected & tested. If electrical item is deemed functional, no credit will be issued & item will be returned. All sales are final on discontinued or closeout merchandise.

EMISSIONS NOTICE

The California Air Resources Board (CARB) does not permit the use of aftermarket emission-related parts(s) that alter the performance of OEM emission-related devices unless CARB has issued an Executive Order, other than on racing vehicles on closed courses. Check your local laws and manufacturer's information.