



# INSTALLATION

## HYPERCHARGER FOR EVO BIG TWIN 9990

### Chrome Body with Chrome Blood Groove Trap Door and Chrome Butterflies

FITS: '93-'99 EVOLUTION BIG TWIN — INCLUDES KÜRYAKYN CRANKCASE BREATHER. NO ADAPTER NECESSARY WHEN USED ON STOCK OR 44MM C.V. CARB

PART#	INCLUDED
600159	1 Chrome Hypercharger Assembly Including the following components:
400970	1 Hypercharger Case — Back Half
400973	1 Hypercharger Case — Front Half
400974	2 Bearing Cups (End Caps) — Chrome
400737	2 Igus Bearings
400794	1 Spring
200094	3 1/4"–20 x 1-1/2" S.H.C.S. — Smooth, Stainless Steel
200088	3 1/4" I.D. Wave Washers
200183	4 10–24 x 3/8" B.S.C.S.
200449	4 #10 Wave Washer
200103	1 E-ring
200550	1 .135 x .235 x .030 Flat Washer
400743	1 Control Rod ("L" Shaped)
200360	1 5–40 Nylock Nut
200266	1 .125 x .312 x .031 Flat Washer
400738	1 Diaphragm
400744	1 Conical Nut
400257	1 Compression Sleeve
400742	1 Air Control Jet
400854	1 Pod Spring
400599	1 Pod Cover Gasket
400628	1 Pod Cover Insert
400629	1 Pod Cover Disc
200383	1 8–32 Hex Nut
200394	1 8–32 x 3/4" Pan Head Screw
200014	3 #8 Split Lock Washers
200013	3 #8 Flat Washers
200389	3 8–32 x 1/2" Pan Head Screws
200273	4 4–40 x 3/16" S.H.C.S.
608599	1 Butterfly Shaft
200018	1 .010 Shim/Spacer
200454	4 .149 x .231 x .031 Flat Washers
200482	4 S.H.C.S. 6–32 x 3/8"
400910	1 Conical Rubber Gasket
408476	1 Blood Groove Trap Door — Chrome
400272	2 Butterflies — Chrome
400541	1 Air Filter Element
8518	1 Crankcase Breather Kit Including:
608518	1 Breather Manifold — Cast
401166	2 3/8"–1-1/2" Aluminum Pipe Sections

**CUSTOMER SERVICE**  
877.370.3604 (toll free)

**INSTALLATION QUESTIONS**  
techsupport@kuryakyn.com  
or call 715.247.2983

### WARRANTY

Kuryakyn™ warrants that any Kuryakyn product sold hereunder, if properly installed, maintained and operated under normal conditions, shall be free from any defects in materials and workmanship for a period of one (1) year from the date the Kuryakyn products are sold to the customer.

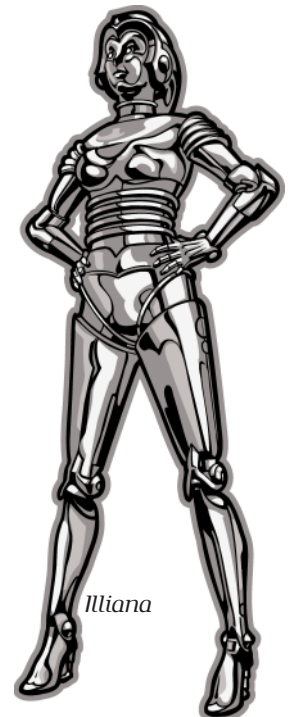
**CONSEQUENTIAL DAMAGES:**  
Kuryakyn shall not be liable for any consequential or incidental damages.

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*Illiana*

401165	2	4" Long Rubber Hose Sections
400815	4	4" Nylon Cable Ties — Black
200119	3	1/4"—20 x 1" S.H.C.S. — Blue Patched
409900	2	Rubber Breather Boots
200664	2	1/2"—20 x 1" Hollow Breather Bolts
401219	2	Slotted Cup Washers
600150	1	#10 Installation Support Kit Including:
400086	1	16" Section Vacuum Hose — 3/32" I.D. x 1/4" O.D.
400859	1	Barbed "T" Fitting
400518	1	"Late Inlet" Gasket With Adhesive
400517	2	"Late Inlet" Gaskets
400926	1	K&N Sticker and Filter Care Sheet
401001	1	Carb Support Bracket — Chrome
309990	1	Instruction Sheet

## TOOLS SUGGESTED

SAE Allen wrench set, Large flat tip screwdriver, Needle nose pliers, Diagonal cutter.

## NOTE

For best drivability and maximum performance, we strongly suggest rejetting of the carburetor. A recalibration kit like Küryakyn P/N 8514 is recommended.

## PROCEDURE AVERAGE TIME: 30-45 MINUTES

**STEP 1** Remove the stock air cleaner assembly.

**STEP 2** Turn off the fuel petcock. Remove from the carburetor the following: fuel line, cables, enricher valve, and V.O.E.S. vacuum line. Remove the carb from the intake manifold. It is extremely likely that best performance will be obtained by re-jetting the carburetor. Install a suitable carb recalibration kit like Küryakyn P/N 8514, at this time.

**STEP 3** Cut a 1-1/2" section of vacuum hose from the length included. Assemble the vacuum "T" as shown in PIC.1.

**STEP 4** Install this vacuum line assembly as shown in PIC.2 and PIC.3.

**STEP 5** Re-install the carb on to the intake manifold. Be sure the carb is pushed all the way back into the manifold. Reconnect and adjust the cables, reconnect the fuel line, and replace the enricher valve.

**STEP 6** Place the chrome carb support bracket across the mouth of the carb and loosely attach it to each head with a hollow bolt and cup washer. Maneuver the carb so all three mounting holes and the float bowl vent hole (10-o'clock position) are centered in the corresponding slots in the support bracket.

**IMPORTANT** Be sure the support bracket contacts each head when it is in place across the front of the carb. If there is a gap between the heads and the support bracket, push the carb inward 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** While holding an intake gasket in place between the carb and the support bracket, tighten the breather bolts. The slots in the cup washers should be facing down.

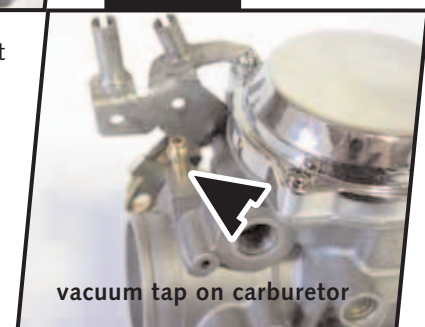
PIC.1



PIC.2



PIC.3



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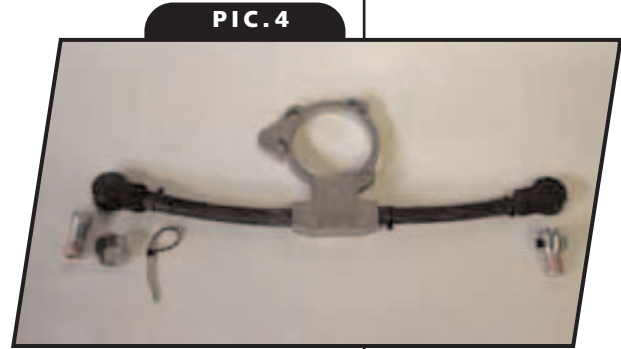
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**STEP 8** Assemble the rubber boots, short pipe sections, rubber hoses, and breather manifold as shown in PIC.4. Use the four nylon cable ties as hose clamps at each junction. Snip off any extra cable tie for clean appearance.

**STEP 9** Snap the rubber breather boots over the cup washers completely encapsulating them.

**STEP 10** With a 1/8" Allen wrench, remove the round trap door in the Hypercharger. Insert the three 1/4"-20 socket head cap screws through the mounting holes in the Hypercharger from the inside. Remove the adhesive backing from one of the intake gaskets, and place it over the three mounting screws now protruding from the back of the Hypercharger. **DO NOT** place a bolt through the float bowl vent hole - this hole is the one in the 10-o'clock position.



**STEP 11** Hold an intake gasket in position between the breather manifold and the support bracket. Position the Hypercharger over the breather manifold and install the Hypercharger to the carb/ support bracket/ breather manifold assembly. Tighten these bolts securely, but don't over do it - the bolts go into the aluminum carb body, which can be easily stripped or broken.

**STEP 12** Replace the trap door and gasket.

**STEP 13** Plug the rubber vacuum hose (assembled in Step 4) into the air jet on the bottom of the vacuum pod on the back of the Hypercharger.

**STEP 14** Double check the tightness of all related fasteners.

*Ride On!*