

THANK YOU FOR CHOOSING CRUSHER!

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.

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

- 1 FRONT HEADER
- 1 REAR HEADER
- 1 FRONT HEAT SHIELD
- 1 REAR HEAT SHIELD
- 1 398-P POWDER COATED BRACKET
- 1 11/16" X .560" SPACER SEMI-GLOSS BLACK
- 2 18-12MM O2 ADAPTOR
- 2 DOG BONE NUT PLATE
- 4 5/16"-18 X 5/8" FLANGE BOLT
- 3 5/16"-18 X 1 1/2" HEX HEAD CAP SCREWS
- 3 5/16" SAE FLAT WASHER
- 1 5/16"-18 X 2" HEX HEAD CAP SCREWS
- 2 EXHAUST GASKET
- 3 NYLON CABLE TIE 8" x 0.14"
- 1 INSTALLATION INSTRUCTIONS

YOU WILL ALSO NEED:

Snap ring pliers, 3/8" Ratchet & extensions, 7/16", 1/2" & 9/16" Sockets, 1/2", 9/16", 7/8" or 22mm, 14mm Combination wrenches, 3/16" & 1/4" Allen wrenches, Ft/lb Torque wrench

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

INSTALLATION REQUIRES CONTACT WITH THE EXHAUST SYSTEM. ENSURE THAT THE EXHAUST SYSTEM HAS FULLY COOLED BEFORE BEGINNING TO PREVENT INJURY.

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.

⚠ WARNING

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

STOCK EXHAUST SYSTEM REMOVAL:

- 1 Remove seat to gain access to rear oxygen sensor connector. Unplug sensor and feed end of wire through frame to free it from motorcycle.

NOTE: Pay attention to wire routing for re-installation.

- 2 **For 2006-2011 models** remove two bolts holding rectifier onto front of frame (near front tire). Open plastic cover to gain access to front oxygen sensor connector. Unplug sensor from harness. Remove cable tie holding wire to frame and feed end of wire through to free it from motorcycle.

For 2012-2015 models the connector is located under the rectifier at the front of the motorcycle.

- 3 Loosen heat shield clamps on both the front and rear headpipes.
- 4 Remove two cylinder exhaust port flange nuts from each headpipe, located at the cylinder head.
- 5 Remove front headpipe clamp bolt.
- 6 Remove the bolt that attaches mufflers to the frame mounting bar.
- 7 Remove the complete exhaust system and set aside (assistance may be required).
- 8 Remove stock mounting bar and the studs in the transmission cover. Save the bolts; one will be re-used.
- 9 Remove left-hand bolt below the transmission cover. Position mounting bracket **398-P** over mounting location to determine which bolts to remove. Install this bolt in the top hole left vacant by the new bracket.
- 10 Carefully remove the flanges and circlips from the stock exhaust system using snap ring pliers.
- 11 Remove stock oxygen sensors. They will be re-used.

NOTE: Replace bent or damaged circlips. Check condition of stock exhaust gaskets. Replace if worn or damaged.

CRUSHER EXHAUST INSTALLATION:

- 12 Attach mounting bracket **398-P** to transmission and **torque to 12-15 Ft/lb (15.3-20.3 Nm)**.

NOTE: 2006 to 2007 models use three 5/16" x 1 1/2" hex head bolts and washers.

2008 to 2011 models use three 5/16" x 1/12" hex head bolts, washers, and 11/16" spacer between the bracket and transmission in top hole.

2012 to 2015 models use one 5/16" x 2" hex head bolt, washers, 11/16" spacer in top hole and two 5/16" x 1 1/2" hex head bolts and washers in remaining holes.

The 11/16" spacer and longer bolt are not required for 2006-2007 models.

- 13 Remove headpipes from protective packaging.
- 14 Install circlips and flanges from stock system onto both new headpipes.
- 15 Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new headpipes.

NOTE: **2006 to 2011 models or models using 18mm wideband oxygen sensors install sensor directly into head pipe.**

2012 to 2015 models install supplied 18mm to 12mm oxygen sensor adapter then install 12mm oxygen sensors (Grey connector into front head pipe, Black connector into rear head pipe).

All models not using oxygen sensors install 18mm plug with copper crush washer.

Be careful not to get anti-seize on sensor tip; it may affect sensor function.

- 16 Install the Rear Header assembly into exhaust port. Use existing flange nuts, do not tighten at this time.
- 17 Slide nut plate inside bracket that is welded to backside of muffler bodies. While holding nut plates in place, attach muffler bodies to mounting bracket **398-P** using four 5/16" X 5/8" flange head bolts (supplied). Leave them loose at this time.
- 18 Tighten cylinder port exhaust flange nuts on front and rear cylinders while making sure pipes are parallel.

NOTE: **Muffler body bracket should align with top edge of mounting bracket 398-P.**

- 19 Tighten the flange bolts on both mufflers.
- 20 Feed wire for front oxygen sensor through frame and into plastic holder on frame. Plug sensor into stock wiring connector. Snap plastic holder closed to hold connector in place.
- 21 **2006-2011 models** Put toothed edge of wiring holder into slot in frame. Reinstall rectifier so that it fits under tooth of wiring holder, keeping it in place in frame. Tighten both bolts.
- 22 Install a new cable tie to hold wire onto frame in original location.
- 23 Feed connector for rear oxygen sensor through frame and into under-seat compartment. Plug sensor into stock wiring connector.
- 24 Re-install main fuse and seat.
- 25 Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.

⚠ WARNING

BEFORE OPERATING MOTORCYCLE, BE SURE ALL HARDWARE IS TIGHT.

NOTICE

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.

EXHAUST CARE:

1. **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 a Vance & Hines FP3 or Fuelpak.**

2007 and up Harley-Davidson Twin Cam engines run especially lean combined with retarded ignition timing. Lean conditions and/or retarded ignition timing will cause high exhaust temperatures and discolor chrome exhaust.
2. **Avoid long periods of idling as this can cause discoloration.**
3. **Make sure there are no exhaust leaks at the junction of the exhaust pipes and cylinder heads. We recommend replacing the gaskets with CRUSHER™ - Cometic exhaust gaskets, P/N 482.**
4. **Make sure there are no intake leaks. Intake leaks will cause a lean condition and engine overheating leading to discoloration.**
5. **When installing new chrome exhaust, make sure your hands are clean and free of grease and oil. After installation, thoroughly clean pipes with a soft clean cloth and cleaning solvent that will leave no residue (glass cleaner, alcohol, ammonia, etc...) before starting the motorcycle.**

LIMITED WARRANTY

Küryakyn warrants that any Crusher 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. 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.
2. The product must be properly installed, maintained & operated under normal conditions.
3. Küryakyn shall not be liable for any consequential & incidental damages, including labor & 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 & a customer.
4. Crusher products are often intended for use in specific applications. Küryakyn makes no warranty if a Küryakyn product is used in applications other than intended.
5. Crusher 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 & workmanship for 3 years from the date of purchase where as all other components shall be warranted for one (1) year.
6. Exhaust systems are warranted for manufacturing defects only. There is no warranty on exhaust pipes & mufflers with regard to any discoloration. Discoloration or "bluing" is caused by tuning characteristics, exhaust timing, carburetor jetting, overheating, etc. & is not caused by defective manufacturing.
7. 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 & where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.
8. Merchandise purchased directly from Internet auction sites or any other third party seller is considered sold as is & shall not carry a Küryakyn warranty. All warranty claims must be directed to the original seller. If unsure please contact the seller to verify they are an authorized Küryakyn 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.

RETURN INSTRUCTIONS

Contact one of our prompt, courteous Customer Service representatives toll free at 866-295-5759. Be sure to have the following information available when you call:

- Name
- Part number/s to be returned
- Copy of original invoice
- Reason for return

1. Obtain R.M.A. number which shall remain active & valid for 60 days. (Important: Issuance of R.M.A. does not represent an authorized credit.)
2. Carefully package merchandise to avoid damage during shipment. Depending on its condition, original packaging may not be sufficient.
3. Ship only those items for which the R.M.A. has been issued.
4. Write the R.M.A. number prominently on the outside of package.
5. Ship package freight PREPAID (C.O.D.s will not be accepted) to:

Kuryakyn 454 County Road V V Somerset, WI 54025