



**MECHANICAL THROTTLE CRUISE ASSIST 6284**

**INTENDED FOR USE WITH STOCK OEM GRIPS OR KURYAKYN ISO, ISO-FLAME & TRANSFORMER GRIPS. REQUIRES AT LEAST A 7/8" HOLE IN GRIP END (OR DRILLING/CUTTING ONE)**

**FITS: '98-UP V STAR 1100 CUSTOM & CLASSIC, '99-UP ROYAL STAR VENTURE, '04-UP ROAD STAR 1700 (ALL MODELS), '06-UP ROADLINER/STRATOLINER, '08-UP RAIDER, '09 V STAR 950, '07-UP V STAR 1300 (INCLUDING TOURER)**

**WARNING! IMPROPER INSTALLATION OR USE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY OR DEATH.**

**PARTS INCLUDED**

- 1 Bar End Throttle Assist
- 1 Bar End Plug
- 1 Small Spacer – for use with ISO-Grips
- 1 Large Spacer
- 2 Anti-Friction Disk (1 is a spare)
- 4 1/4" Flat Washers
- 1 M6 x 1.0 x 75MM Socket Head Cap Screw (SHCS)
- 1 M6 x 1.0 x 90MM Socket Head Cap Screws (SHCS)
- 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 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, Razor Blade/Knife and 7/8" (or larger) Drill Bit (for applications with closed grip ends)

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

**WARNING!** THIS PRODUCT IS INTENDED TO HOLD THE THROTTLE OPEN. IMPROPER USE IF THIS PRODUCT CAN RESULT IN SERIOUS INJURY OR DEATH.

**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.

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**WARNING!** IMPROPER INSTALLATION OR USE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY OR DEATH.

**WARNING!** FAILURE TO ADJUST THE MECHANICAL THROTTLE ASSIST PROPERLY MAY RESULT IN LOSS OF CONTROL CAUSING SEVERE INJURY OR DEATH.

**CAUTION!** Ensure that the installation of this product does not interfere with the proper operation of the motorcycle before riding.

**STEP 2** Depending on the grip being used, you may need to remove the grip from handlebars.

**STEP 3** Depending on your application and grip, choose either the 75mm or 90mm screw from the kit and insert it into the Cruise Assist. Typically, the 90mm screw is used for Kuryakyn Grips and the 75mm screw is used for OEM grips.

**STEP 4** Make sure that the inner brass bushing is flush with the chrome outer housing. If it is not, twist the outer chrome housing while holding the shaft until the brass bushing is flush.

**STEP 5** Make sure that the anti-friction ring is installed on the Cruise Assist before mounting on handlebars. (PIC 1)

### FOR OEM GRIPS:

**NOTE** It may be necessary to remove the stock throttle side grip to avoid getting debris between the grip and the handlebar.

**STEP 1** If using grips without holes in the ends or with grip end-caps; remove the grip end caps and cut at least a 7/8" (or larger) hole in the end of the grip. It is important to make the end of the grip as smooth as possible. (PIC 2)

**NOTE** If cutting the grip, make sure that the cut area is smooth and free of any excess material. The grip should have adequate clearance to fit the Cruise Assist in the hole. The grip rubber should not extend past the plastic throttle sleeve.

**STEP 2** Thread the bar end plug into the end of the handlebar and tighten with the correct hex wrench. (PIC 2)

**STEP 3** Make sure that the inner brass bushing is flush with the chrome outer housing. If it is not, twist the outer chrome housing while holding the shaft until the brass bushing is flush. Make sure the grip is in a natural position and not forced against the throttle/control housing. Insert the 75mm screw into the end of the Cruise Assist.

**STEP 4** Using the Backing Card from the packaging as a guide, use the supplied 1/4" Flat Washers to space the Cruise Assist. (PIC 4) Install the Cruise Assist with the necessary washers and thread the 75mm screw and the Cruise Assembly in to the end plug. (PIC 1)

**NOTE** Four (4) 1/4" Flat Washers are provided to adjust the spacing, it may not take all of the washers to properly space the Cruise Assist.

**STEP 5** See Adjustment section of this instruction.

### FOR KÜRYAKYN GRIPS:

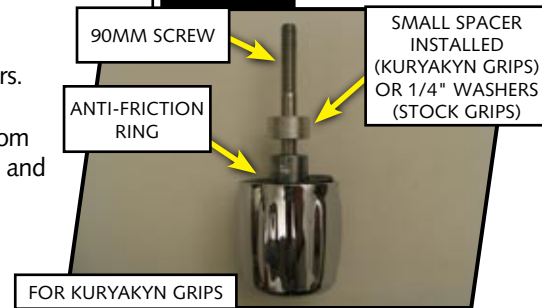
**STEP 1** Remove the four (4) bolts that hold the end cap to the end of the grip. Remove the grip from the handlebars.

**NOTE** Typically, throttle cables will have to be loosened in order to remove the grip.

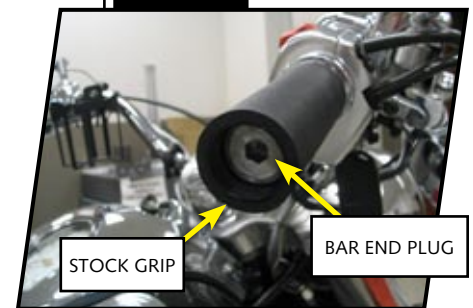
**STEP 2** Thread the bar end plug into the end of the handlebar and tighten with the correct hex wrench. Insert the large spacer from the kit into the grip. Re-install grip.

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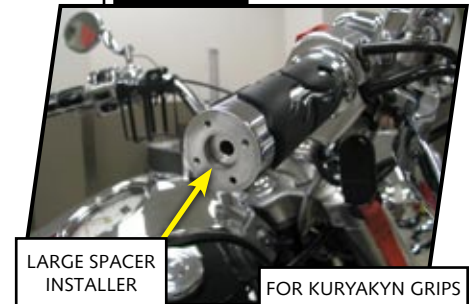
PIC. 1



PIC. 2



PIC. 3



PIC. 4



PAGE

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**STEP 3** Make sure that the inner brass bushing is flush with the chrome outer housing. If it is not, twist the outer chrome housing while holding the shaft until the brass bushing is flush. Make sure the grip is in a natural position and not forced against the throttle/control housing. Slide the short spacer over the 90mm screw and thread the Cruise Assist in to the end plug. (PIC 1)

**STEP 4** Using the Backing Card from the packaging as a guide, check the spacing of the Cruise Assist (PIC 4). 1/4" flat washers are provided and may be used in addition to space the Cruise Assist properly. Install the Cruise Assist with the necessary washers and thread the 90mm screw and Cruise Assembly into the end plug.

**NOTE** The 1/4" flat washers may be necessary to adjust the cruise assist properly.

**STEP 5** See Adjustment Section of this instruction

**WARNING!** FAILURE TO ADJUST THE MECHANICAL THROTTLE ASSIST PROPERLY MAY RESULT IN LOSS OF CONTROL CAUSING SEVERE INJURY OR DEATH.

**CAUTION!** Ensure that the installation of this product does not interfere with the proper operation of the motorcycle before riding.

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## ADJUSTMENT

**STEP 1** Make sure that the inner brass bushing is flush with the chrome outer housing. If it is not, twist the outer chrome housing while holding the shaft until the brass bushing is flush. Make sure the grip is in a natural position and not forced against the throttle/control housing. Using the backing card from the packaging as a guide, use the spacers and/or washers (depending on grip) provided to find the correct spacing to fit the card between the grip end and the Cruise Assist (PIC 4). This clearance will allow the grip to move freely without contacting the Cruise Assist when disengaged.

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**STEP 2** Tighten the screw at the end of the Mechanical Throttle Cruise Assist. Check the function of the Cruise Assist by twisting the grip to the 1/2 throttle position and spinning the end of the Cruise Assist counter-clockwise until it ratchets. When the Cruise Assist ratchets, it has reached its maximum hold. If the grip will not stay at the 1/2 throttle position, spin the Cruise Assist clockwise so that the inner brass bushing is flush with the chrome outer housing. Loosen the screw at the end of the Cruise Assist. Remove or add washers/spacers as necessary. Re-use the backing card as a spacer then tighten the screw at the end of the Cruise Assist. Repeat this procedure until the Cruise Assist is properly adjusted.

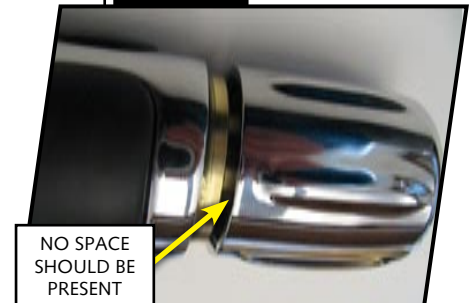
**NOTE** When in the "locked" position, the throttle should be able to rotate with moderate force. When the Cruise Assist is disengaged, the throttle should rotate freely with no binding. There should be no gap between the backside of the inner brass bushing and the chrome housing. (PIC 5)

**WARNING!** THIS PRODUCT WILL HOLD THE THROTTLE OPEN IF THE CRUISE ASSIST IS ENGAGED. BE SURE TO DISENGAGE WHEN NOT IN USE OR WHEN STARTING THE MOTORCYCLE.

**STEP 3** Check function of the Mechanical Throttle Cruise Assist. Check for proper function and that the cruise assist is disengaged everytime before starting the motorcycle.

**NOTE** If any damage or blunt force impact occurs to the Cruise Assist such as the motorcycle tipping over, check the function of the Cruise Assist before continuing use. Make sure there is no resistance on the throttle when the Cruise Assist is fully disengaged. The Cruise Assist should be disengaged when not in use.

PIC. 5



**WARNING!** ALWAYS CHECK TO ENSURE THE CRUISE ASSIST IS DISENGAGED BEFORE STARTING OR RIDING YOUR MOTORCYCLE.

**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 issue a warranty on components lost due to improper installation. Periodic maintenance may be required.

## **OPERATION OF THE MECHANICAL THROTTLE CRUISE ASSIST**

**STEP 1** Before starting the motorcycle, check that the Cruise Assist is disengaged. Twist the throttle and check for free operation. If the throttle does not twist freely, roll the Cruise Assist clockwise (away from you) until it stops. Check the throttle again.

**STEP 2** When riding, and a desirable speed has been reached, roll the Cruise Assist counterclockwise (toward you) with your pinky and ring finger until it holds the throttle in the desired position or until it ratchets. The throttle should now hold its position. The throttle should also be adjustable to fine tune your speed and close the throttle in an emergency.

**NOTE** *The ratcheting of the mechanism is a normal function and does not affect product reliability.*

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**STEP 3** When coming to a stop, be sure to disengage the Cruise Assist before you continue to ride again.

**NOTE** *It may take the Cruise Assist multiple clockwise rotations to fully disengage the mechanism.*

**WARNING!** IT IS ALWAYS RECOMMENDED TO HAVE BOTH HANDS ON THE HANDLEBARS WHILE OPERATING A MOTORCYCLE.

**WARNING!** FAILURE TO ADJUST THE MECHANICAL THROTTLE ASSIST PROPERLY MAY RESULT IN LOSS OF CONTROL CAUSING SEVERE INJURY OR DEATH

**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 issue a warranty on components lost due to improper installation. Periodic maintenance may be required.

*Ride On!*