

# Vista Cruise throttle lock modification

By Carbon\_One

Materials needed –

1. flat stock 1/2 wide X 1/16 thick I used brass for ease of bending and soldering. Stainless steel or regular steel can be used also
2. 1 small screw the same size (8/32?) as the one that attaches the thumb piece to the ring only longer (1 1/4" long)
3. 1 small nut to be welded to the end of the above screw a strip of rubber the same width as the ring ( 3/16 wide X 1/16 thick)
4. a nut for the clamping screw. I found a knurled one that fit perfect from some of my archery tackle.

Refer to picture # 3 for a view of the finished locking ring

Starting with a Universal Vista cruise control:

1. Remove the plastic body from the ring.
2. Set aside the ring, thumb piece, spring, and screws.

Fabricating the "U" shaped thumb support:

The thumb support is 5/16" wide measured on the inside X 1/2" long from the inside edge to the end. A hole is drilled for the thumb piece 3/8" from the inside through both sides. Also the hole will be 3/16" off center towards the top. Note the position in picture # 3.

Lengthening the clamping screw:

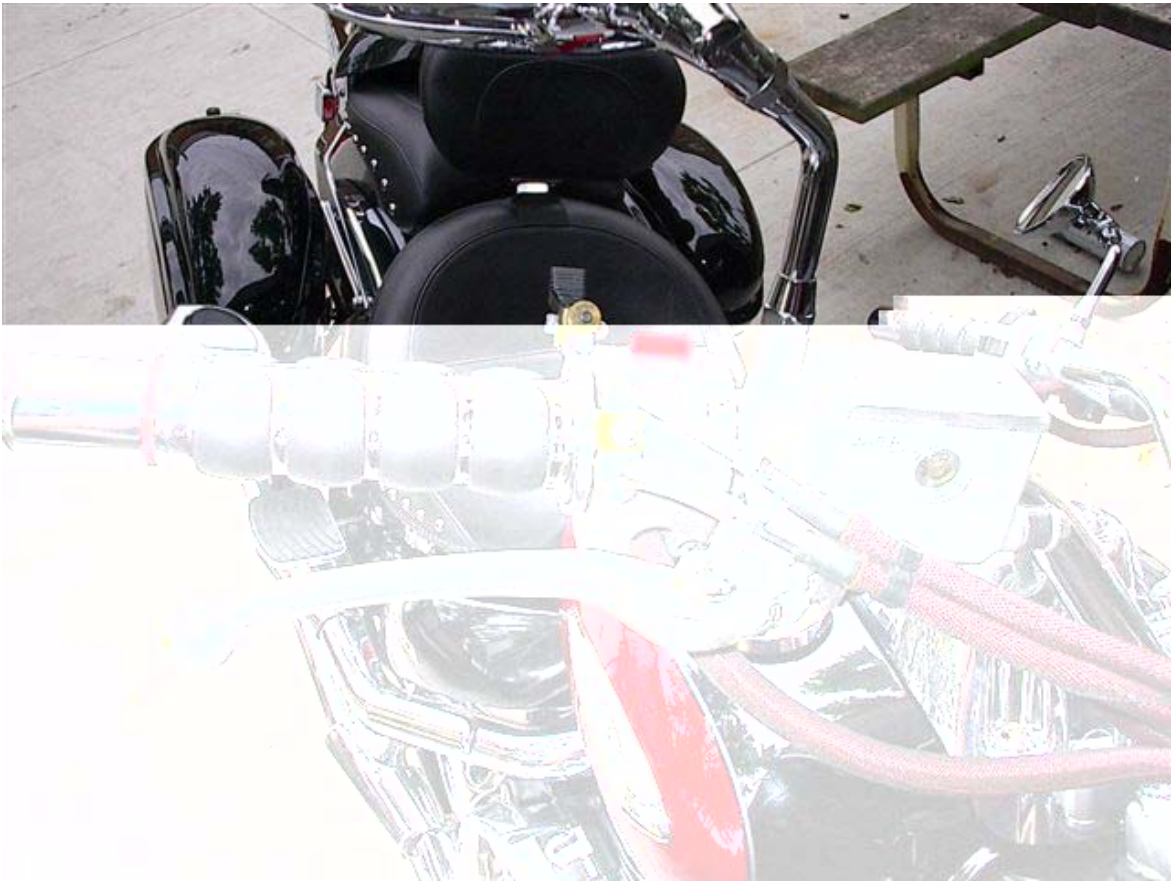
Weld the small nut on the head of the clamping screw. Grind and file off the excess to fit inside the thumb piece. It'll look just like the one taken off the stock set up Vista Cruise uses except for being longer.

Fabricating the mounts:

The size of the angled mount is 1/2" X 1/2" with a hole drilled for the mounting screw. It'll be easier to cut to length after bending the angle. Bend a 90° angle on the one piece. Slip the angled piece into place while the screw is out and mark the location where the hole needs to be drilled. Drill a hole to match the screw being used for the bracket that holds the throttle cables in place. For the bottom mount just use a extra piece of flat stock and after welding it in place it can then be cut and shaped as desired.

Assembly and setting up --- Position the ring with the rubber in place on the ISO grip. Use the thumb piece to hold it in place and also to figure out where you want the thumb piece located. Next put the angled mount into position and screwed in place. Mark both the ring and the mount as to location. Mark the location for the bottom mount also. Remove everything and proceed to weld the mount to the ring. I silver soldered mine so as not to have to use as much heat as in regular brazing or welding. Also it can be either painted or chromed later.

NOTE: Regular solder isn't going to hold as well and will not hold together if chrome plating it. Glue the rubber strip onto the inside of the ring and after it sets up then you're ready for the install. I used a fast setting glue that bonds almost instantly. For setting the tension just screw in or out the nut as desired. Practice will tell you how much for different road/speed conditions. I like mine to have a little drag so if I let go of the grip it'll only back off slowly. For locking down on the highway you'll need more tension as the throttle return springs exert more pressure on the throttle lock. I just adjust the knurled nut as necessary.



Picture #1



Picture #2



Picture #3