

**V-Twin Mfg.**  
**Internal Throttle instructions**  
**VT Part No. 36-0570**  
**For use with Billet Style Grips**

**This is a custom application and should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.**

**Step One:** Position and loosely fasten all controls and housings in order onto 1-inch o.d. bar ends. Do not forget to include grip length. Note: any extra length of bar to be removed. Length may vary depending on application. Squarely cut bar ends to size as necessary.

**Step two:** Measure in approximately 2 3/8" inches in from the end of the bar on the throttle side only, mark off your cut line. Measure it again and then make your cut as squarely as possible from the throttle side bar end only. This will allow space for the internal throttle assembly.

**Step Three:** On the throttle side of the handlebar measure and mark the handle bar for the inner throttle sleeve, approximately 1 7/16" in from end of bar and center punch the bar. Drill completely and squarely through the tubing with a #25 drill bit. Tap the holes with a 10-24 tap.

**Step Four:** Choose a routing path for the throttle cable. (If wire type cable is used, lightly solder cable at throttle end to avoid fraying) Seat outer cable housing in the cable button with 1/16 Allen key. Tighten setscrew in the button to secure cable housing (be sure you do not crush cable housing) Extend cable wire into puller. Tighten setscrew on puller to bite cable tightly. Push both parts back into the handlebar until the groove in the cable button aligns underneath the tapped 10-24 screw holes in the bar end. Install screws and tighten down, making certain they've entered the retaining groove in the cable button. It may also be necessary to lightly file the end of the bar so that the set screws will enter the recess into the cable button. Be very careful not to file too much off, as this will result in excessive play in the throttle that you cannot undo. File down slowly to a perfect fit.

**Step Five:** Measure approximately 1/4" inch in from the grip end and center punch.(after removing end of throttle handle that would attach to throttle cables.) Fit the billet grip of your choosing over the throttle and drill completely and squarely through the grip and housing with a #25 bit. Tap the grip using 10-24 tap and install setscrews. Use a small amount of Loctite on set screw for final installation.

**Note: Remember to double check all measurements before cutting and drilling.**

**Note: Do not tighten Set screw (A) so as to make contact with inner sleeve as this will prevent throttle from turning.**

**Note: It is very important that you remember to oil the cable and thoroughly grease all the components of the internal throttle before final assembly.**