

# Installation Instructions for: Side Hiller-2 Left Hand Throttle Kit

## Part #410-409

This kit is universal & will fit all factory mountain sleds with OEM handlebars and hand grips. For your benefit it is recommended that you read the instructions before you start installation.

### Handy Tips:

1. **Tools needed:** 5/32" & 5/64" Allen Wrench, Phillips Screw-Driver, Drill, 5/64" Drill-Bit & Box-Cutter.
2. When you remove the kit from the packaging, it is already assembled. The only part that you will need to disassemble is to remove the Lever from the upper half of the Lefty's Throttle Block, but you will leave the Cable attached to the Lever. Then separate the two halves of the Lefty's Throttle Block.
3. It is mandatory that you use Blue Loctite on the threads of all fasteners.
4. Look at the pictures above for a reference when installing this kit.
5. It is recommended that every few rides that you blow compressed air through the Cable Housing to release any water condensation that may be on the inside. This will prevent the Cable from freezing.
6. Put grease on all pivoting parts & on the Cable. This will give your Lefty's a smoother pull.
7. **Caution!** Before starting your machine. **Always**, pull the thumb lever to full throttle and release. You should hear the snap of the carbs closing. Do this several times to ensure that there is no ice or frost build-up that can cause the throttle to freeze. **Always**, think safety first.

### Left Side Throttle Block & Lever:

**First**, install the Lefty's Throttle Block around the hand-grip. Locate it as far to the inside of the hand-grip as possible. It is recommended that the Lefty's Lever is pointing straight down; however you may position it to your own comfortable position. Then tighten the bolts so that the Lefty's Throttle Block does not move on the grip; however, you will need to be careful that you do not over tighten the bolt because it could damage the inner hot grip wires.

**Next**, reinstall the Lefty's Throttle Levers over the tabs on the Lefty's Throttle Block, and then insert the small end-screws that hold the Lever. Note: Be careful with these screws, they are fragile.

### Right Side Bell-Crank & Cable Adjustment:

**First**, you will need to route the Lefty's Cable over to the right side of the handlebar. **Note:** if your sled has a handlebar cover you will need to route it through the inside. Then look at the bottom side of the OEM throttle lever to see if it has any extrusion sticking down; if so you will need to trim them off with a box-cutter. Then hold the Lefty's Bell-Crank up to the bottom side of the OEM throttle lever with the Bell-Crank pointing straight forward to see if the length of the Lefty's Cable is going to be OK. If it looks too long you will need to route the Cable around something to make it shorter. If it is too short you will need to route the Cable in a straighter line to make it longer.

**Next**, hold the Bell-Crank up into position then slide it forward so that it is up close to the OEM throttle pivot pin or bolt, then on the forward hole on the Bell-Crank drill a 5/64" hole through the OEM throttle lever and install one of the provided 5/8" sheet-metal screws. Then you will need to rotate the Bell-Crank outward to get proper Cable adjustment. Cable Adjustment Speck is measured between the Cable Fitting and the Cable Pivot Bolt; it should be no less than 1/16" and no more than 3/16". Note: This kit does not have a cable adjuster, so you will need to be accurate with this measurement. Once you have achieved this adjustment you can drill and install the back sheet-metal screw. Note: Make sure that the sheet metal screws do not protrude past the inside of the thumb lever. If they do you must trim them off.

**Next**, make sure that the Lefty's Cable leads straight into the Bell-Crank; then you will need to secure the cable housing with one or two zip-ties so that it does not move around or bend the Lefty's Cable when you pull the OEM throttle. **Note:** The screw that is on the end of the Lefty's Cable must be able to freely slide up and down on the Cable and be able to rotate in the Bell-Crank; if it does not it will damage the end of the Cable. Once these adjustments have been completed you can pull the Lefty's Throttle to make sure you get full throttle and the entire assembly works freely, and does not bend in any position.

Should you have any problems during installation, please call Toll Free (866) Go Lefty