



Instructions for: Side Hiller-2 Dual Throttle Control

This Kit is universal & will fit most 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 & Maintenance:

1. **Tools needed:** 5/64" Allen wrench, Phillips screw-driver, Drill, 5/64" or (3/32" Polaris ONLY) drill-bit, box-cutter or wire cutters.
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 end attached to the lever. Then separate the two halves of the Lefty's throttle block so that you can slide the assembly on to the left side handlebar.
3. It is mandatory that you use blue Loctite on the threads of all fasteners (including the 2 that go into the plastic OEM lever).
4. It is highly recommended that every few rides, you blow compressed air through the cable housing to release any water condensation that may be on the inside of the Lefty's cable. This will help prevent the cable from freezing.
5. Spray cable lube into the inner cable housing until it comes out the other side (use lube in an aerosol can or chain lube).
6. Also spray lube on all pivoting parts. 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 buildup 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 liking paying close attention to cable routing. Then tighten the bolts so that the Lefty's throttle block does not move on the grip. You will need to be careful that you do not over tighten the bolts because it could damage the inner hot grip wires. **Note:** A piece of hose is included as a spacer for going directly over the handlebar not over the grip.

Right Side Bell-Crank & Cable Adjustment:

First, look at the bottom side of the OEM throttle lever to see if it has any extrusion sticking down that will interfere with the Lefty's bell crank; if so you will need to trim them off with a box-cutter. Then 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 hold the Lefty's bell crank up to the bottom side of the OEM throttle lever with the stepped portion of the bell crank on the top and the long end of 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.

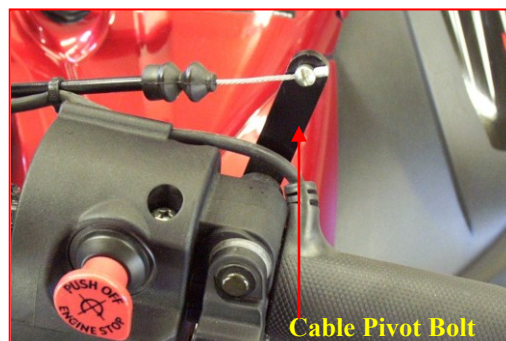
Next, hold the bell crank up into position then slide it forward so that it is up close to the OEM throttle pivot pin or bolt. **Note:** Make sure that the bell crank is not up against or touching the OEM throttle pivot pin; if it is it can put the OEM throttle lever in a bind causing the throttle safety switch to activate. Then on the forward hole on the bell crank drill a 5/64" (3/32" Polaris ONLY) 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 Specs:** Measured between the cable fitting and the cable pivot screw; it should be no less than 1/32" 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 the tip of them off.

Next, this step is important to get right. It will determine how well your Lefty's kit will work. Make sure that the Lefty's cable leads straight into the bell crank with no bends; then you will need to secure the cable housing with one or two zip-ties so that it does not move around. **Note:** If you need, you can put a slight bend in the cable housing in the same spot of the zip-tie; this sometimes helps to get the cable to lead straight into the bell crank. Then make sure the assembly works free and the cable does not move around and will stay in place. **Note:** The screw that is on the end of the Lefty's cable must be able to freely slide on the cable and be able to rotate in the bell crank; if it does not it will bend and 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 bind in any position.

Should you have any problems during installation, please call (208) 255-5800



Throttle Lock-Out Pin



Cable Pivot Bolt



5/8" Sheet Metal Screws



IMPORTANT SAFETY WARNINGS!

**It is your responsibility to READ and SAVE this document
Do not operate any vehicle equipped with this device without
first reading these important warnings.**

- 1 Operating any motorized vehicle is a dangerous activity and can cause serious injury, even death. Do not operate under the influence of alcohol, drugs or prescription medication.
- 2 Read and be familiar with the instructions before proceeding with installation. Compliance with the instructions is imperative for safe operation of this device.
- 3 Inspect cable, bell crank, and fasteners for fit, wear, and freedom of movement before each ride, so as to assure safe and proper operation.
- 4 Before starting your snowmobile, **ALWAYS** free the throttle. Push the throttle lever to the handlebar wide open and then let it snap back. Repeat this process two to three times. This will knock ice or frost loose in the carburetor that could cause the throttle to stick wide open.
- 5 You must wear appropriate safety attire including a helmet, protection for hands, body and feet and all other items necessary for proper protection at all times.
- 6 You are engaged in a hazardous activity. This device will not guarantee protection from injury. You and you alone are responsible for the safe installation and operation of this product on your vehicle.
- 7 You, as operator, absolve LEFTY'S DTC LLC of all liabilities from use of this product and assume any and all legal fees and medical bills should they occur.

DISCLAIMER OF WARRANTIES AND LIMITATION OF DAMAGES

The use of a snowmobile, with or without after-market accessories, is hazardous to its participants, including serious personal injury, death, and/or property damage, regardless of all feasible safety measures which may be taken.

Seller disclaims all warranties, express or implied, including any warranties of merchantability and/or fit to vehicle.

Buyer's sole and exclusive remedies for any breach or damages are limited to the return of the goods at buyer's expense and repayment of the purchase price or to repair and replacement of nonconforming goods or parts, which is at the sole discretion of Seller. Seller specifically excludes and shall not be liable for any consequential or incidental damages, including liability for death or injury to person or property.

Please contact LEFTY'S DTC LLC for clarification if you do not understand this document.

AFTERMARKET SNOWMOBILE ACCESORIES PRODUCTS

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