

# LASERKERF

## Miter Saw Installation Instructions

### Introduction

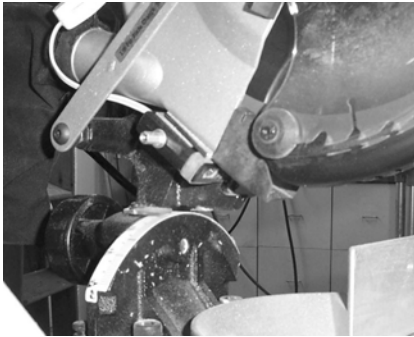
The retrofit Laserkerf is small enough to fit most radial arm and miter saws. The AC unit plugs into an outlet via a built-in transformer on a six-foot cord; the DC unit is powered by two AA batteries. The average life of the laser is 5,000 hours. The unit is attached to the saw with an adhesive strip on the back of the Laserkerf. Some saw models need mounting brackets to attach the unit to the saw, and a few require the owner to make a mounting bracket. (See [www.laserkerf.com](http://www.laserkerf.com) for installation instructions on particular saws.) The unit should be mounted 5 to 8 inches from the work surface. When used with a miter saw, the laser should be mounted behind the blade (see below). The laser has a horizontal adjustment of +/- .25 inches and an angular adjustment of +/- 30 degrees.



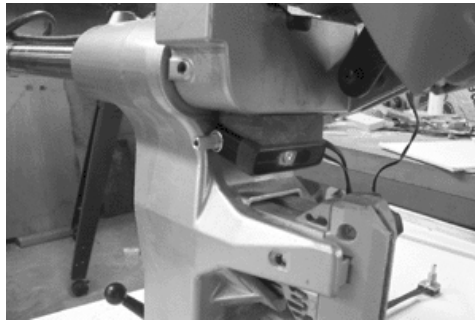
### Safety

1. Unplug your saw while attaching the laser, as you will be working with the guard open and close to the blade.
2. As indicated on the product label, **DO NOT** look into the laser when it is on.
3. Two cable clips are provided to secure the wire away from moving portions of the saw. **DO NOT** operate the saw with the cable hanging loose.

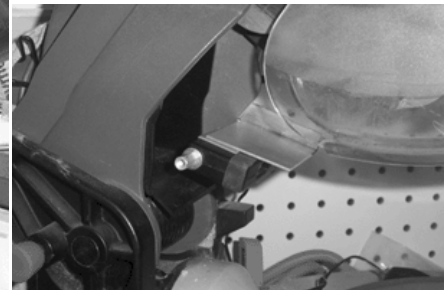
The examples below show various installation types. The actual installation will vary according to the model of saw.



Mounted on back of guard



Mounted using W-3 bracket



Mounted with B-6 bracket

### Laser Alignment

For installation information on specific saws, visit [www.laserkerf.com](http://www.laserkerf.com) or call (859) 494-0790.

### Miter Saw Installation

**Please read the entire instruction before starting**

1. Make sure that the saw is aligned properly per the owner's manual.
2. Join two 1 x 4's ( 1x 6 for 12" saws) at a right angle. See Figure 4 below. Clamp the wood to the saw table.
3. Bring the saw down and cut partially through the wood as shown in figure 4.
4. Unplug the saw.
5. Once you have determined approximately where the bracket will be positioned per the saw specific installation instructions from the web site, place the laser and bracket and turn the laser on. The beam should shine about 2" behind the fence. If the angle of the bracket is adjustable angle it to position the beam. Mark the position of the bracket.
6. Clean the area where the bracket is to mount with mineral spirits to remove any contamination. Remove the

backing from the adhesive and stick the B-x bracket to the saw. If you are using a W-x bracket, attach it to the Laserkerf, see figure 5.

7. Turn the laser on and, without removing the adhesive cover, place the laser against the bracket or mounting surface and point the laser through the slot at the divot in the wood. Use the angular adjustment to align the beam vertically through the slot onto the divot. You do not need to remove the rubber band to adjust the angle; simply push right or left on the top of the bump made by the adjustment knob. The laser must be emitting directly in line with the blade. Notice the red beam on the back of the saw teeth in Figure 3 below.

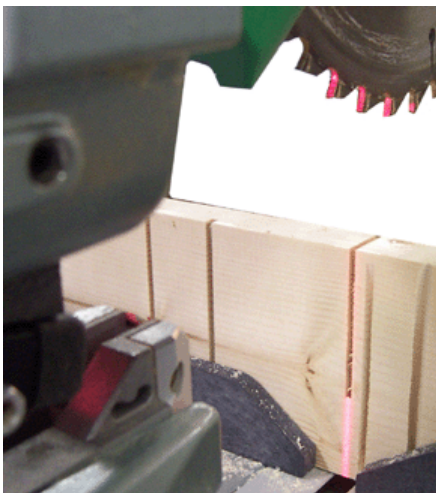
8. Once you have determined where the laser will be positioned, clean the area with mineral spirits to remove any contamination. Allow the area to dry completely.

9. Remove the backing from the adhesive on the laser or “W” bracket. Holding the laser at a slight angle to the mounting surface, as determined in step 7, ground the bottom edge of the laser against the mounting surface, making sure that the beam is illuminating the divot. Press the laser completely against the surface and hold firmly for 10 seconds. The horizontal adjustment can be used to move the beam left or right as needed. If necessary, the laser can be removed and reattached to improve alignment during the first few minutes. The Laserkerf is now aligned to the blade.

10. Allow the adhesive to bond for at least three hours before using the saw. The adhesive is very aggressive and will cure in 48 to 72 hours.

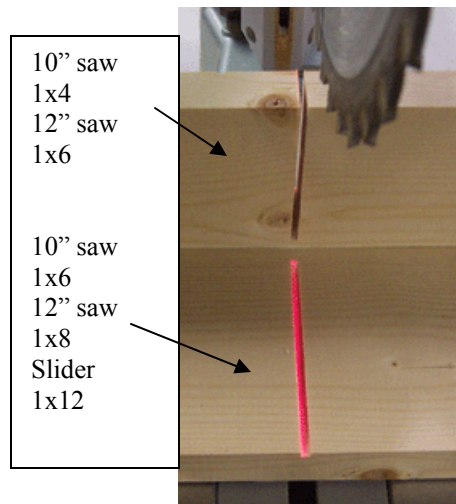
11. Before using the saw, make sure that the black rubber band completely covers the angular wheel and the slot on the back of the box, and be sure to position the cable clips (included with the laser) to the saw to hold the cable away from any moving parts.

12. Locate a convenient place to install the on/off switch using its adhesive pad. The assembly process is complete. Enjoy your Laserkerf for many years to come.



**Figure 3. Beam hitting the back of the board at the bottom of the slot only.**

**On your model saw the beam may not shine on the teeth of the blade.**



**Figure 4. Beam hitting the notch.**



**Figure 5 “W” bracket attached to laser**

### **Warranty**

Your Laserkerf is warranted against defects in labor or materials for six months from the date of purchase. For warranty service, call (859) 494-0790 for an RMA number, then send the unit prepaid with a copy of the sales receipt to Laserkerf, 669 Burton Pike, Georgetown, KY 40324. At our discretion, we will repair or replace the unit.

If you are not satisfied with the unit within 14 days of receipt return it with a copy of the sales receipt, for a full refund of the purchase price (excluding shipping and tax) if it is in normal operating condition.

If the adhesive included in the kit ever fails, we will send you another adhesive strip free of charge. Do not use another adhesive on the laser. The black rubber dust cover should last for many years in a chemically clean environment. If it should ever fail or become cracked, we will gladly send you another free of charge.