

# ***Dakota Digital***

## **PWL-1**

### **POWER WINDOW REGULATORS WITH WIRING HARNESS**

This power window package is the most user friendly window kit on the market today. This kit is a universal kit that fits a wide range of vehicles. The total travel up and down is up to 21". There are two limitations to this kit; one being 21" of travel, and the other is that these regulators can only be used on flat glass windows.

**STEP ONE:** Place the window regulator in the door with the riser channel facing the inner door panel and the glide pad facing the outside door panel. The motor and rubber tube can face the front or back of the door, depending on available space. The illustration shows the motor facing the front of the door. The installation process requires the glide pad to move up and down. Wire the switches according to one of the included diagrams.

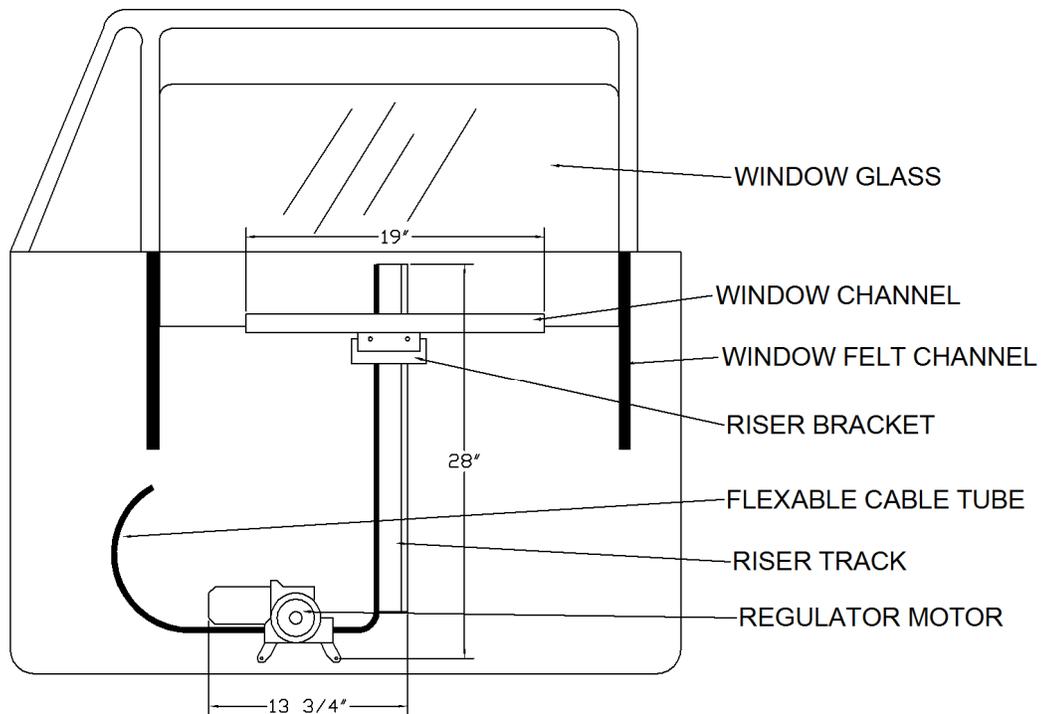
**STEP TWO:** Place the riser channel in the door as close to the center as possible. A variation of 10% in either direction is acceptable to clear existing door hardware. At this point, you should be able to determine if the riser channel needs to be cut down to fit in the door. To cut the riser channel, run the glide pad down to the motor and cut the top of the riser channel down to the appropriate length. Note: **Make sure the glide pad is down to the motor to avoid cutting the spiral driving cable.** Installation will not be affected by cutting the top not insert off. Just use the remaining inserts to mount the window regulator. The metal tube which guides the spiral driving cable will be held in place by the two remaining crimp points.

**STEP THREE:** Begin mounting the window regulator with the top nut insert on the riser. To obtain the proper spacing, bolt the bottom channel to the guide pad. Place the glass in the door and secure it with tape in the up position. Run the glide pad up until the bottom channel is just below the glass. Add spacers between the inner door panel and the riser channel until the glass is in line with the groove in the bottom channel. Tighten the top bolt into the riser channel. Because this is a universal kit, it is impossible to know what length bolts you will need. The ¼" 20 thread bolts you will need are available at most hardware stores.

**STEP FOUR:** Determine the spacing for the bottom bolt by running the glide pad and window to the down position. This will move the bottom of the riser channel in or out to align it with the glass. Add spacers out to the riser channel and tighten the bottom bolt. There is no need to use the middle mounting points on the riser channel.

**STEP FIVE:** Lift the glass out of the bottom channel, but DO NOT remove the bottom channel from the glide pad. This could change the alignment. Place a heavy bead of Butyl windshield sealer (available at NAPA part #4203) or a comparable product in the groove of the bottom channel. Window tape or other adhesives may be used, however windshield sealer works best.

**STEP SIX:** Fasten at least two mounting bolts into the motor. You may need to add spacers. Be sure that the rubber tube does not interfere with any existing door hardware. The rubber tube may be bent around hardware as long as there are no kinks.



The motor near the bottom of the unit is the thickest point at 2"

