

# POWERGATE

ELECTRIC TAILGATE LOCK

## INSTALLATION INSTRUCTIONS

LK 280 • 2007-CURRENT • SILVERADO/ GMC

### PACKAGE CONTENTS:



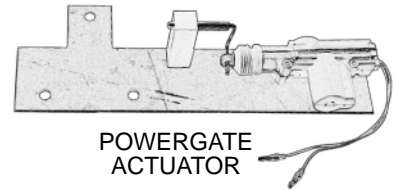
SHORT WIRE HARNESS



LONG WIRE HARNESS



WIRE RELAY HARNESS



POWERGATE ACTUATOR



FEMALE BULLET CONNECTORS



WIRE TIES



WIRE T-TAPS

### TOOLS REQUIRED:

Crimp tool  
½" or 13mm socket

Door panel removal tool (optional)

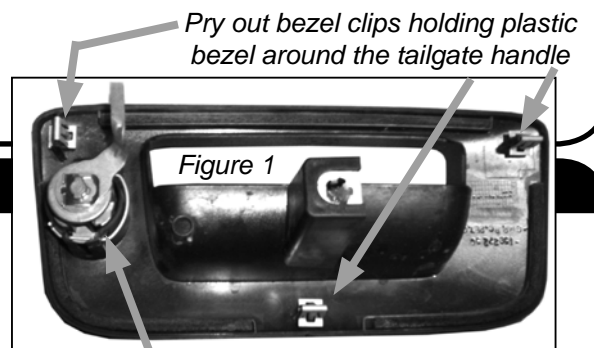


**!! NOTE: BE SURE TO PROTECT ALL PAINTED SURFACES OF THE TRUCK !!**

### STEP 1 : REMOVE THE HANDLE ASSEMBLY FROM THE TAILGATE

Remove the plastic bezel around the truck tailgate handle. To do this first remove the bottom bolt on the inside of the tailgate and then carefully pry the bezel clips out of the slots in tailgate. (Figure 1) (Clips are tight, protect your paint. Auto parts stores offer a door panel removal tool that helps remove this)

Rotate the plastic locking clips holding the threaded lock arms to the truck tailgate handle and pull the threaded lock arms out of the truck tailgate handle assembly. Remove the two top bolts holding the truck tailgate handle in place. Lift the truck tailgate handle out of tailgate.



If you have the factory manual locking handle make sure it is in the unlock position

### STEP 2 : INSTALL POWERGATE

Run the short (black and white) wire harness with the two blank wires up into the tailgate drain slot in the bottom drivers side of the tailgate and pull up to the tailgate handle area. Crimp the two female bullet connectors to these black and white wires and then plug them into the actuator connectors. (It does not matter which one.)

The PowerGate will be mounted between the back (cabside) of the tailgate and the truck tailgate handle. Insert and hold the Powergate plate and truck tailgate handle against the inside of the tailgate and start one of the top bolts in the truck tailgate handle (A helping hand makes this much easier). Tighten loosely and continue to install the other top bolt. (If you have the factory manual locking handle make sure it is in the unlock position (Figure 1) and the locking mechanism attached to the truck tailgate handle assembly is in the lowered position (not pictured)). Attach the tailgate threaded lock arms and snap the plastic locking clips back into place. (Do not reinstall the plastic bezel around the tailgate handle yet)

## STEP 3 : ROUTE AND CONNECT THE WIRE HARNESES

Plug the long wire harness into the short tailgate harness near the tailgate. Run the harness along the frame of the truck and up to the fire wall. Secure the harness with the wire ties provided. Avoid all hot surfaces or pinch points while routing the wire harness.

Plug the Blue and Green wires from the Relay harness into the Black and White wires from the long harness. Secure the Relay harness with the wire ties in the engine compartment where necessary.

Attach the red wire from the Relay harness to the 12v positive side of the truck battery and the black wire from the Relay harness to the ground.

Route the Violet and Grey wires from the Relay harness through the firewall on the drivers side of the engine compartment. (*Taping the wire with electrical tape to a coat hanger works well for pulling the wire through when necessary. Try to follow OEM wire routes whenever possible.*)

Remove the driver side door panel. **Figure 2** (*Auto parts stores offer a door panel removal tool that helps make this easier*)

Route the Violet and Grey relay harness through the rubber wiring boot going to the drivers door. **Figure 3** (*Again taping the wire to a coat hanger works well for this.*)

Locate the Violet and Tan door lock wires in the main door wire bundle running from the door lock to the door lock switch. **Figure 4**

This wire bundle has two tan wires, you will need to determine which of the tan wires you need to use. Attach a T-Tap to the Violet wire and the other T-Tap to one of the tan wires. Plug the Violet and Grey harness wires into the T-Taps and operate the lock switch. If the lock operates in one direction only you will need to move to the other tan wire and test again. The tailgate lock should work at this time.

**Operate the tailgate lock prior to re-installing your door panel.** If the tailgate locks in the opposite direction as the door switch, reverse the violet and grey harness wires plugged into the T-Taps to change the direction. (**Figure 5 & 6**)

Re-install the drivers side door panel at this time.



Figure 2

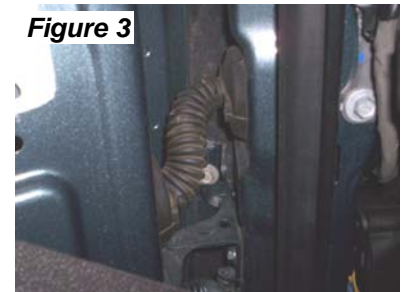


Figure 3

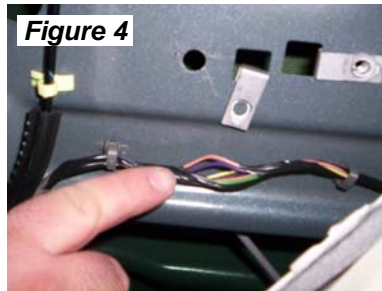


Figure 4

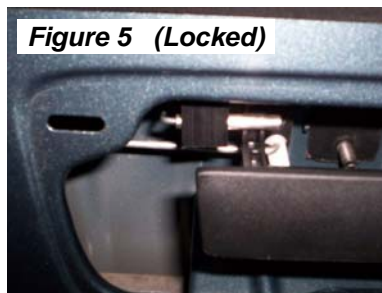


Figure 5 (Locked)



Figure 6 (Unlocked)

## STEP 4 : REINSTALL THE BEZEL AROUND THE TAILGATE HANDLE

Mount the bezel by pushing its clips back into the tailgate. (**Figure 7**)

Install the bottom bolt into the tailgate, it screws into the bezel.

Tighten all bolts securely.



Figure 7