

## POWER VISION INSTALLATION INSTRUCTIONS

**Models:** 6405/4410 & 6405/4410TK GM/Chevrolet 2007 – current (new body style) full size trucks and SUVs with manual power mirrors.

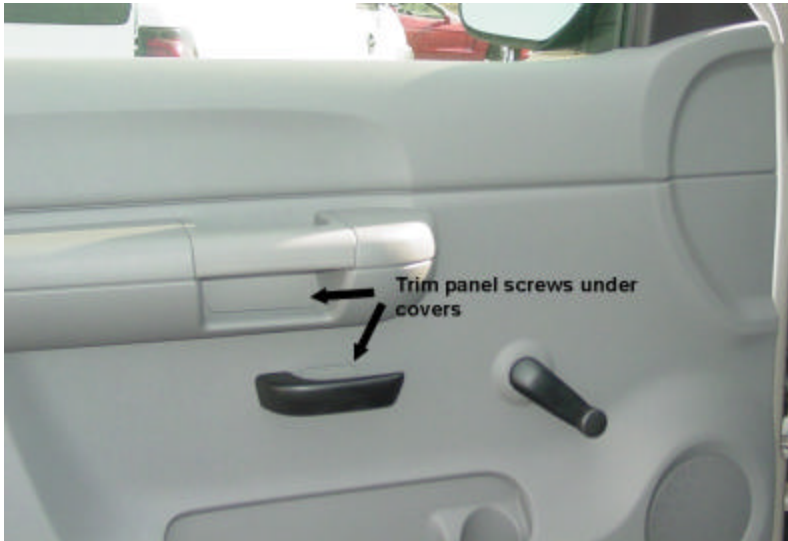
**THIS SET IS DESIGNED FOR TRUCK WITH STOCK MANUAL MIRRORS. IF YOU CURRENTLY HAVE POWER MIRRORS, THE WRONG SET HAS BEEN ORDERED.**

Caution! - Do not attempt to manually extend or retract the mirrors. They should be moved under their own motor power only.

Tools required for the installation are: 7mm and 10mm sockets, trim panel remover, philips screwdriver, small screwdriver, needle nose pliers, razor knife, and an inch pound torque wrench. If you have any questions after reading this installation manual, please call our service department at (800) 337-2557.

### REMOVAL OF EXISTING MIRRORS

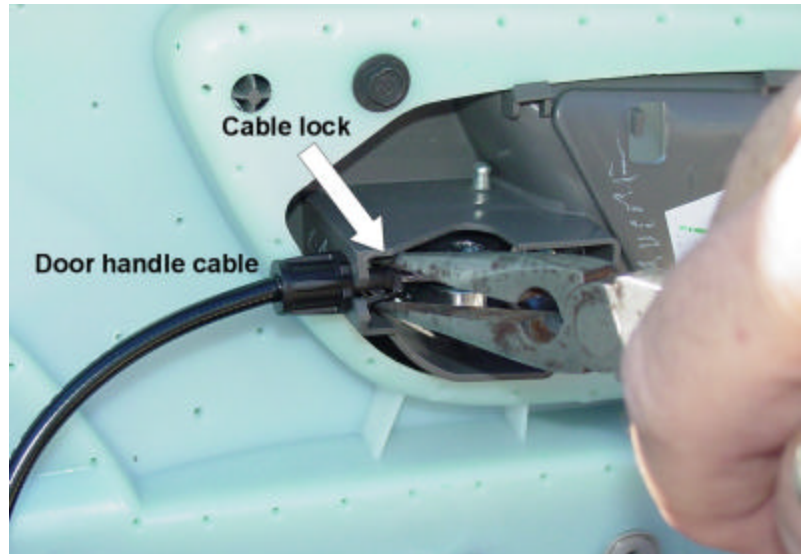
1. On the inside of the driver's door, remove the triangular shaped trim piece and insulation foam in the mirror mounting area.
2. Remove the door lock by using a small screwdriver to release the tab while lifting the lock upward.
3. Remove door trim panel screws located under trim covers.



4. Remove window handle by releasing the retaining clip.

5. The door trim panels have a series of snaps around the outer edges. Unsnap the door trim panel.

6. Remove the door trim panel:  
Release the door handle cable by compressing the cable lock with needle nose pliers (as shown), rotate until ball lines up with the slot, then lift upward. Remove the trim panel.



7. Support the stock mirror while removing the 3 mirror mount lug nuts using a 10mm socket. Save the stock nuts for later in the install.
8. Release the clip at the top of the mirror door bracket (as in photo). Remove the stock mirror. Save the stock gasket and nuts, as they will be reused.
9. Repeat this process for the passenger side.



**ASSEMBLY AND MOUNTING POWER VISION MIRRORS:**

1. Attach the mirror door mount bracket (“mount”) to the mirror using 3 of the #8 screws with yellow patch provided in the hardware bag. (Note: This is also where you can adjust the sweep of the mirror in relation to the door later on if necessary.)

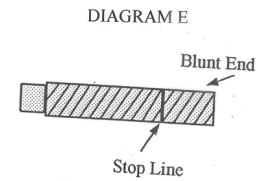


2. Plug the cord coming through the mount into the cord under the boot.

3. Place the open end of the boot around the lip on the mount to hold it in place.



4. Insert the studs provided (3 for each side) with the tapered end out (see diagram E). They should screw into the mount up to the stop line – approx. 1cm or 3/8 of an inch. Next, line up the mount with the stock gasket and apply the mount to the door. While supporting the mirror add the stock nuts. Tighten the stock nuts to 70 inch pounds. This gasket is necessary for sealing against moisture and wind noise and to keep from metal to metal contact. (Hint, taping the outer gasket to the edge of the mount, if necessary, will assist holding it in place.) After the mirror has been mounted simply cut the tape and peel it off of the mount.



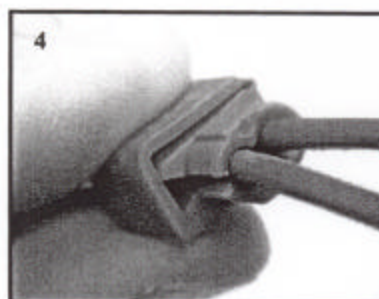
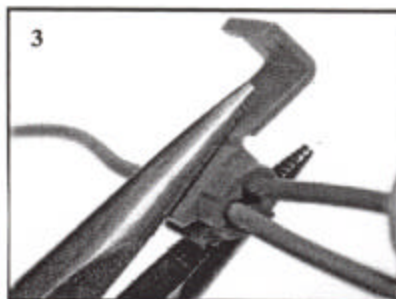
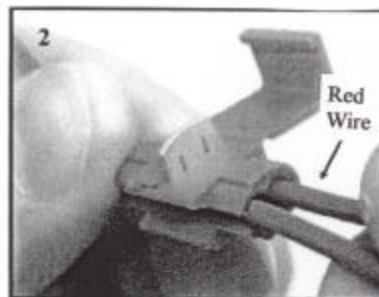
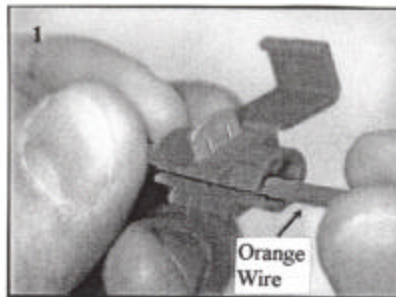
5. Repeat this process for the passenger side.

## WIRING

### **IF YOU HAVE POWER STOCK MIRRORS THE WRONG SET HAS BEEN ORDERED.**

**TURN SIGNAL WIRING:** *If you ordered a kit without the turn signal (TK) option, skip to the “mirror wiring” section below. We recommend removing the air bag fuse during installation.*

1. Run the two strand grey wire that is coming off the driver side mirror from inside the door, through the boot connecting to the cab, and into the cab to under the dash by the steering column. (Hint: if you have trouble running the wire into the cab, see steps 2 of “mirror wiring” on page 4).
2. Turn on your left (driver’s side) blinker. Probe the wires coming from the steering column, identify which wire is the active left blinker wire (recommend trying light blue w/white tracer wire).
3. Using one of the scotchloks provided, connect the red wire inside the two-strand harness that you brought in from the driver’s side mirror to the active blinker wire identified in step 2. (*Note-the orange wire labeled in the picture is used for illustration purposes only and does not mean that orange will be your active color for turn signals*).



4. Repeat steps 1 through 3 for the passenger side identifying the right side active turn signal wire (recommend trying dark blue w/white tracer wire) and tapping the passenger mirror into it using a scotchlok.
5. Take the black wire from inside the driver side two-strand harness that you have run into the cab and the black wire from the passenger side and crimp them together in the ring terminal provided. The turn signal system can then be grounded under the dash.
6. Test the turn signal system by turning on your turn signals and checking to see that the turn signal indicators in the mirror glass light up. If they do not, re-check to see that you have scotchlocked into the correct wires.

### MIRROR WIRING:

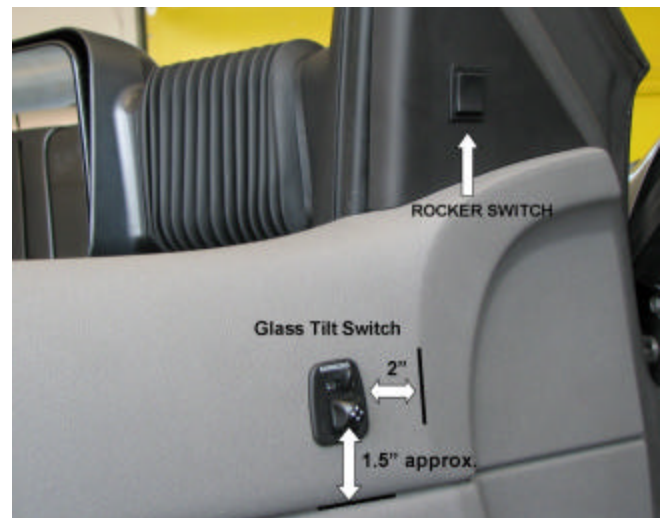
***(BEFORE YOU START THE WIRING PROCESS, PLEASE DISCONNECT THE NEGATIVE CABLE FROM THE BATTERY)***

1. Using the templates and measurements provided with your switch kit assembly, prepare the driver side trim panel for the in/out switch and glass tilt switch.

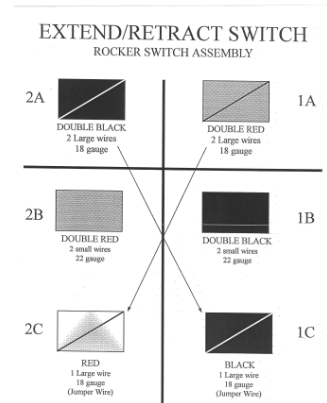
In/Out Rocker Switch: We recommend placing the in/out switch on the triangular-shaped trim piece as shown. The center of the switch should be 2" from the left side of the trim and 2" from the bottom of the trim piece. If you choose to put it in another location, be sure to check the clearance before you cut the hole. You will need at least 1/4" clearance for the back of the switch. It is important to follow measurements on the diagram provided - - the switch should fit snugly, but not bind. **If hole is cut too small it will cause the in/out switch to stick in a running position and burn the motors and/or the switch out.** The in/out switch will be snapped into place later in the installation.



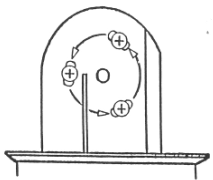
Glass Tilt Switch: We recommend placing the glass tilt switch on the driver's side door trim panel, as shown. Make sure there is clearance on the back of the trim panel and you will need at least 1 5/8" depth for the glass tilt switch.



2. The next step is to run the main harness. Pop off both ends of the boot located between the door and cab. The main wiring harness has black and red wires attached. Remove the rubber band to uncoil the harness. One end of the main harness has a 12 pin and a 6 pin connector – this end stays inside the driver's door. To run the main harness, start by fishing the passenger's side end of the harness (the one with just a 6 pin connector) through the driver's door and out on the door side of the boot. To fish wire through the boot, tape it to a long screwdriver (or use a fish wire) and push the screwdriver through the boot. Next, fish the wire through the opening through the cab and run the harness up under the dash. (Be careful when running the harness as to not interfere with the emergency brake.) To run the harness into the passenger side door, repeat the process above. When complete, the ends of the boot can be put back into their original position.
3. On both the driver and passenger side, snap the 6 pin connector from the main harness onto the 6 pin connector that comes from the Power Vision mirrors into the door.
4. Snap the in/out and tilt switches into the holes in the driver's door that was cut earlier. Reconnect the terminals to the back of the switches. Snap the 12 pin (large white) connector on the main wiring harness onto the 12 pin connector coming from the switches.
5. The red wire attached to the main harness is to be run to an accessory terminal (**which is powered only when the ignition is on**) or a 12 volt power supply. The black wire must be grounded. The vehicle's battery can then be reconnected.
6. Before putting any of the access panels back into place, it is recommended that all the mirror functions be tested before reinstalling the trim panels.



## ADJUSTMENTS AND MAINTENANCE

1. The mirror assemblies can be swept closer or further from vehicle door. This is accomplished by sliding the black rubber boot off of the mount (toward the mirror) to reveal the inner side of the mount. Three screws going into oval slots will be visible (see diagram). WHILE SUPPORTING THE MIRROR ASSEMBLY, loosen the three screws, you will feel the notches as you slowly move the mirror assembly. After adjusting the mirror to your satisfaction, carefully tighten the screws back down. The torque for the three screws is 25 inch pounds, **DO NOT** exceed this torque setting or damage to the knuckle may result. The rubber must then be put back in place. Repeat this process with passenger door.
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2. For ease of break away, extend the mirrors approximately two inches prior to folding away. This gives the rubber boot room to fold up.
  3. No lubricant should be applied to or sprayed on any of the integral parts of this mirror.



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