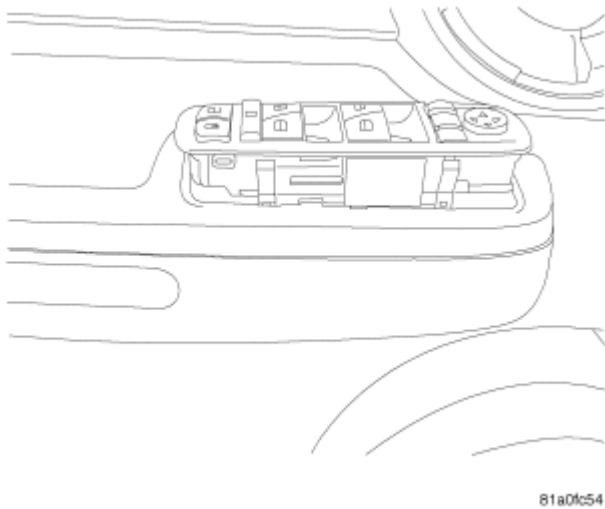


**2007 ACCESSORIES AND EQUIPMENT****Power Mirrors - Service Information - Nitro****POWER MIRRORS - SERVICE INFORMATION****DESCRIPTION****POWER MIRRORS**

**Fig. 1: Power Operated Sideview Mirrors Switch**  
Courtesy of CHRYSLER LLC

The power operated sideview mirrors allow the driver to adjust both outside mirrors electrically from the drivers seat by operating a switch on the driver side front door trim panel.

**AUTOMATIC DAY/NIGHT MIRROR****DESCRIPTION****AUTOMATIC DAY/NIGHT MIRROR SYSTEM**

The automatic dimming inside day/night rear view mirror system is a completely self-contained unit that replaces the standard equipment inside rear view mirror. This system will automatically change the reflectance of the inside rear view mirror to protect the driver from the unwanted headlight glare of trailing vehicles while driving at night. The automatic day/night inside mirror receives ignition switched battery current through a fuse in the TIPM, and will only operate when the ignition switch is in the On position.

The automatic day/night mirror sensitivity cannot be repaired or adjusted. If any component of this unit is inoperative or damaged, the entire automatic day/night inside rear view mirror unit must be replaced.

**OPERATION**

**AUTOMATIC DAY/NIGHT MIRROR SYSTEM**

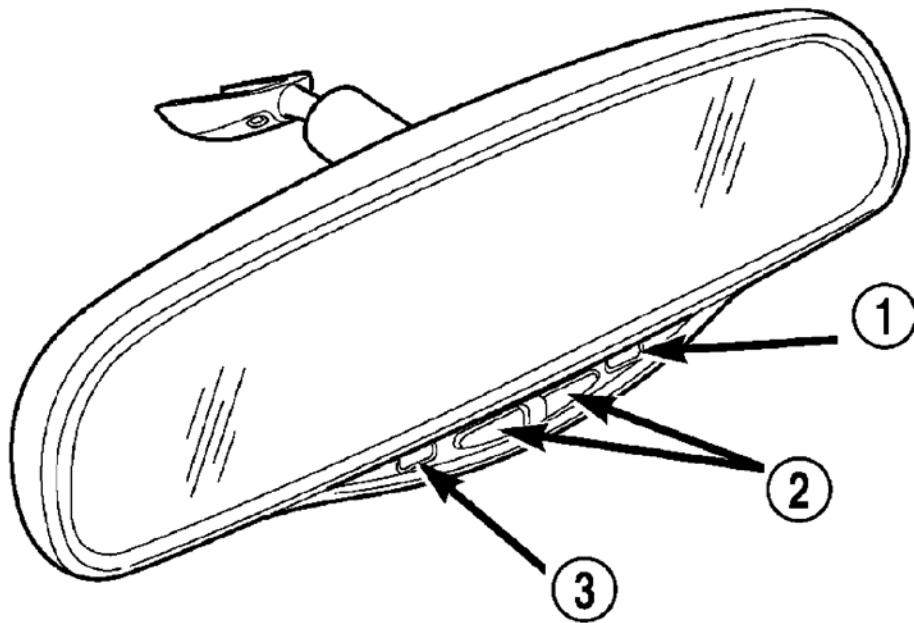
The automatic day/night mirror switch allows the driver a manual control of whether the automatic dimming feature is operational. This switch is a momentary rocker-type switch located on the lower rear-facing surface of the mirror housing. When Auto is selected, a Light-Emitting Diode (LED) on the mirror housing just to the right of the switch illuminates to indicate that automatic day/night mirror is turned on. When Off is selected, the LED is turned off. The mirror also senses the backup lamp circuit, and will automatically disable its self-dimming feature whenever the transmission gear selector is in the Reverse position.

A thin layer of electrochromatic material between two pieces of conductive glass make up the face of the mirror. Two photocell sensors are used to monitor light levels and adjust the reflectance of the mirror. The ambient photocell sensor faces forward, to detect the outside light levels. The headlamp sensor is located on the mirror housing just to the left of the switch and facing rearward, to detect the light level received at the rear window side of the mirror. When the difference between the two light levels becomes too great (the light level received at the rear of the mirror is much higher than that at the front of the mirror), the mirror begins to darken.

**DIAGNOSIS AND TESTING****AUTOMATIC DAY/NIGHT MIRROR**

For complete circuit diagrams, refer to the appropriate wiring information.

1. Check the fused ignition switch output (run/start) fuse in the junction block. If OK, go to step 2. If not OK, repair the shorted circuit or component as required and replace the faulty fuse.
2. Turn the ignition switch to the On position. Check for battery voltage at the fused ignition switch output (run/start) fuse in the junction block. If OK, go to step 3. If not OK, repair the open fused ignition switch output (run/start) circuit to the ignition switch as required.
3. Disconnect the overhead wire harness connector from the automatic day/night mirror connector receptacle. Check for battery voltage at the fused ignition switch output (run/start) circuit cavity of the overhead wire harness connector for the automatic day/night mirror. If OK, go to step 4. If not OK, repair the open fused ignition switch output (run/start) circuit to the fuse in the junction block as required.
4. Turn the ignition switch to the Off position. Check for continuity between the ground circuit cavity of the overhead wire harness connector for the automatic day/night mirror and a good ground. There should be continuity. If OK, go to step 5. If not OK, repair the open ground circuit to ground as required.
5. Turn the ignition switch to the On position. Set the parking brake. Place the transmission gear selector lever in the Reverse position. Check for battery voltage at the backup lamp switch output circuit cavity of the overhead wire harness connector for the automatic day/night mirror. If OK, reconnect the overhead wire harness connector to the automatic day/night mirror connector receptacle and go to step 6. If not OK, repair the open backup lamp switch output circuit as required.



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**Fig. 2: Automatic Day/Night Mirror**  
Courtesy of CHRYSLER LLC

6. Place the transmission gear selector lever in the Neutral position. Place the automatic day/night mirror switch (2) in the Auto (LED (1) next to the switch is lighted) position. Cover the forward facing ambient photocell sensor to keep out any ambient light.

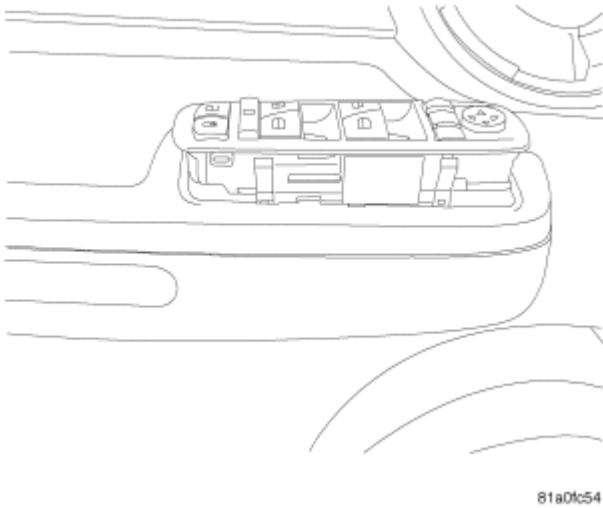
**NOTE:**        **The ambient photocell sensor must be covered completely, so that no light reaches the sensor. Use a finger pressed tightly against the sensor, or cover the sensor completely with electrical tape.**

7. Shine a light into the rearward facing headlamp photocell sensor (3). The automatic day/night mirror should darken. If OK, go to step 8. If not OK, replace the faulty automatic day/night mirror unit.
8. With the mirror darkened, place the transmission gear selector lever in the Reverse position. The automatic day/night mirror should return to its normal reflectance. If not OK, replace the faulty automatic day/night mirror unit.

## SWITCH-MIRROR

### REMOVAL

### POWER MIRROR SWITCH

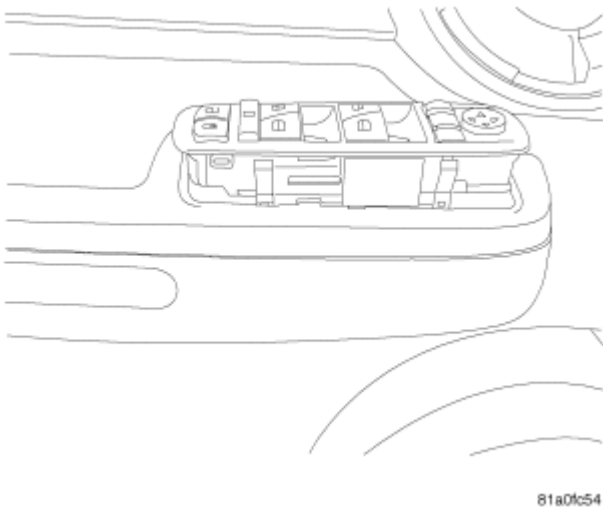


**Fig. 3: Power Mirror Switch**  
Courtesy of CHRYSLER LLC

1. Disconnect and isolate the battery negative cable.
2. Gently pry the switch from the door trim panel.
3. Disconnect electrical harness connector from switch.

## INSTALLATION

### POWER MIRROR SWITCH



**Fig. 4: Power Mirror Switch**  
Courtesy of CHRYSLER LLC

1. Connect the electrical harness connector to the switch.
2. Press the switch into place.
3. Connect the battery negative cable.

## 2007 Dodge Nitro R/T

2007 ACCESSORIES AND EQUIPMENT Power Mirrors - Service Information - Nitro

### **SIDEVIEW MIRROR**

#### **REMOVAL**

#### **POWER MIRROR**

1. For removal procedures, refer to **REMOVAL** .