

9002-9510 Wiring Instructions (Auto Dimming/Onstar [Video Display Mirror](#))

IMPORTANT: Read before installing.

Mirror Mounting Covers (the 2012 Equinox is shown below on the left). Refer to our application guide for affected vehicles – Remove with a plastic trim tool. If your vehicle has a center portion, that requires removal first. Using a die grinder remove the striped area, of the center cover, that is shown below. The cover next to it is after the rework.



Mirror Mounting- This mirror has a Wedge/ D-tab style mounting base. Please check our application guide to ensure sure it is compatible with your vehicle (adapters are available for specific applications separately). Slide the mirror onto the tab. Torque for the mirror screw that attaches to the windshield tab is 1.8 Nm (16 lb-in) and cannot exceed 2.2 Nm (19.5 lb-in).

Camera requirements- The camera signal must be strong enough for the mirror to detect signal when reverse is engaged. We recommend that the camera be connected to mirror prior to installation to confirm compatibility. Best results are on cameras that have a .8- 1.6 VDC coming out of video composite lead (commonly a yellow RCA jack). To test this use a multimeter set to DC and connect the (-) lead to the camera RCA shield and the (+) lead to the camera RCA tip with the camera powered ON.

Powering up the camera- The mirror stays ON for over 1 second when reverse is disengaged and if the camera is connected to the reverse tail lamp then the screen will flash Blue. If the camera does not power up instantly when the vehicle is shifted into reverse the screen will not detect the camera and will not display an image. For these reasons we recommend that the camera be connected to Ignition (+).

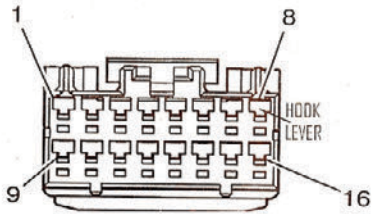
About OnStar- OnStar does get any of its electrical signal from the same leads as the LCD portion of the mirror and so just testing that the OnStar works does NOT signify that the mirror is getting all of its needed power.

16 Pin Connector required- This kit will only work on vehicles that are equipped with the 16 pin connector in the illustration below. Some GM vehicles with OnStar are equipped with a 10 pin connector. You will need a 10 to 16 pin adapter part number 9002-6006a (not supplied) in these cases.

Low Speed LAN Circuit- It is important that if the vehicle you are working has a wire in cavity 3 that you **remove and isolate** it from the mirror connector. Not doing so will cause the vehicle computer to malfunction and the vehicle **will not start**.

Connector face and back of mirror images

White dot identifies cavity 1



Harness Pinout:

Pin	Wire Color	Function
1	N/A	N/A
2	N/A	N/A
3	Dark Green	Low Speed LAN
4	N/A	N/A
5	N/A	N/A
6	Red	Video +
7	Black	Video -
8	White	Ground
9	Brown	Reverse Signal 12V+
10	N/A	N/A
11	N/A	N/A
12	N/A	N/A
13	Green	Ignition Controlled 12V+
14	N/A	N/A
15	N/A	N/A
16	N/A	N/A

Wiring: (It may not be necessary for you to use the Green, White and Brown supplied wires below, most GM vehicles already have these locations populated. If wires already exists in these locations simple test the leads using a multimeter for the correct signal).

Inserting/ removing pins: located on the bottom side of the mirror connector is a rectangular white tab. This tab must first be released (see figure 1). A small flathead watch repair screw driver works best. The tab will only lift about 1/10th of an inch. Then insert the same screwdriver (or Delphi terminal tool 12094429) on the face of the connector and lift the plastic tab that holds the pin in place (see figure 2).

Figure 1

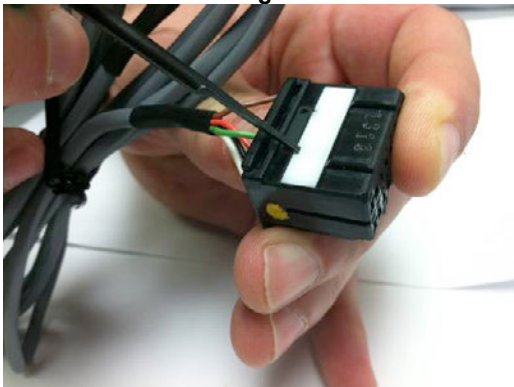


Figure 2



Pin 3 If present in vehicle it **MUST be extracted** and isolated (see Low Speed LAN note above)

Pin 8 Use White wire from supplied harness and insert into connector, connect opposite end of wire to a good solid chassis ground.

Pin 9 Use Brown wire from supplied harness and insert into connector, connect opposite end of wire to the reverse lead from the tail light circuit.

Pin 13 Use Green wire from supplied harness and insert into connector, connect opposite end of wire to the Ignition circuit of vehicle. 12v+ when key is turned ON & 14.4 or better when vehicle is running.

Video signal: Connect RCA to camera video output. (See camera requirements above).

Pin 6 Camera video input positive- Insert Red wire from supplied harness (the opposite end of wire is attached to the video input RCA). **Note:** If lead exists in this cavity remove and isolate as it is not needed.

Pin 7 Camera video input negative- Insert Black wire from supplied harness (the opposite end of wire is attached to the video input RCA). **Note:** If lead exists in this cavity remove and isolate as it is not needed.

Operation: Temporary Monitor Manual Shut Down:

If while in reverse you require to turn OFF the camera monitor simply press and release the POWER button on the mirror. (Note: once reverse is disengaged the mirror will go back to normal operation and will turn ON next time reverse is engaged).