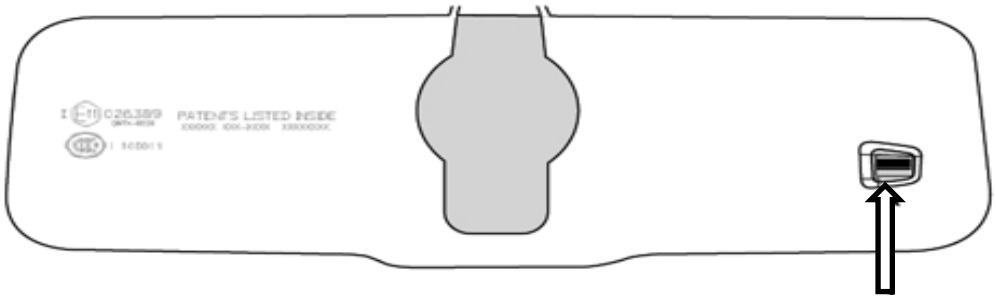
	GROUP **Electrical**	MODEL **2012MY Sedona (VQ)**
	NUMBER **PS212 (Rev 2, 08/06/2014)**	DATE **May 2012**

PITSTOP

TECHNICAL OPERATIONS

SUBJECT: BACK-UP CAMERA DISPLAY INOPERATIVE IN REAR VIEW MIRROR

In some cases when the back-up camera display is not operating, the compass and HomeLink displays in the rear view mirror may still be operational. If a customer complains that the display screen is inoperative, use the following procedures to diagnose the concern:



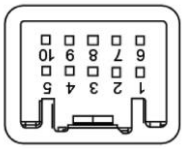
Forward Facing Sensor

Connector	Pin	Description	Pin	Description
	1	Camera Power (-)	6	Battery Voltage
	2	OEC (+)	7	OEC (-)
	3	Camera Power (+)	8	Ground
	4	Video Signal (-)	9	Reverse Signal
	5	Video Signal (+)	10	IGN (+12V)

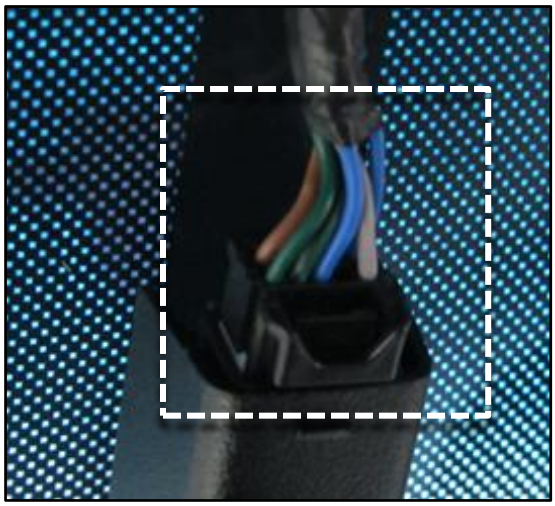
To check the voltages follow the steps outlined below (do not remove the mirror):

1. Remove the rear mirror harness trim cover by pulling it down and away from the windshield.

2. Once the cover is removed, back-probe the terminal of all circuits. The mirror sends out voltage to power up the camera so the mirror needs to be powered up before the camera circuits can be checked.



10 Br/O	9 P/B	8 B		6 L
5 G	4 G/B	3 L		1 Gr



3. Removal of the 12 cavity connector from the back of the mirror is <u>not</u> necessary. This is not recommended because only the B+ Ground and the illumination circuits can be checked at this particular location.

Referencing the connector/pin diagram above, follow these steps to determine if the rear view mirror assembly needs replacement:

1. Check the voltage at pins 6, 9, and 10 at the rear view mirror with the mirror connected. Pins 6 (battery voltage) and 10 (key on, 12V) should have battery voltage and pin 9 should measure around 8 volts.
2. Place the vehicle in reverse and measure the voltage at pin 9. Pin 9 should measure battery voltage in Reverse.
3. Check for voltage at pins 3 and 5. Both should measure 6 Volts. This is power to the camera.
4. If either pin 3 or pin 5 do not have power, replace the rear view mirror assembly.
5. Confirm the back-up camera view displays properly in the rear view mirror after the repair.

To further assist with your diagnosis, refer to the electro-chromic mirror schematic diagram below.