

# INSTALLATION INSTRUCTIONS

## Rear Vision System – Mirror Display 2010 onwards Camaro (Kit part number 1018-9540)

### Kit Contents:

- RVS Interior (shorter) harness
- RVS Chassis (longer) harness
- Camera with mounting bracket
- Mirror
- 1 bag containing:
  - 10 Wire Ties
  - 2 screws for camera mounting
  - 2 weld nuts for camera mounting
- 1 bag containing:
  - ZTech (in a white bottle)
- 1 bag containing:
  - Template (along with these instructions)

### Tools Required:

- T20 Torx Driver
- Flat Head Screwdriver
- Phillips Screwdriver
- Push pin removal tool
- Plastic Trim tool
- 5/16" Drill Bit
- 3/4 and 1 inch Center Hole Saws or Sheet Metal Cutters
- Deburring Tool
- Soldering Iron
- Electrical Tape or Heat Shrink
- Small brush

# INSTALLATION INSTRUCTIONS

1. Remove harness cover by pulling down with fingers. This will not be reused. (Figure 1)

**Figure 1**



2. Loosen the screw that attaches the existing rear view mirror to the windshield mounting button with a T20 Torx driver. (Figure 2)

**Figure 2**



3. Remove connector from the mirror and then push mirror upwards to remove from windshield mirror mount. (Figure 3)

**Figure 3**



4. Using a trim tool remove driver's A pillar and pull inward to release clip from sheet metal. (Figure 4)

**Figure 4**



5. Remove driver's side dash trim panel with a trim tool. (Figure 5)

**Figure 5**



# INSTALLATION INSTRUCTIONS

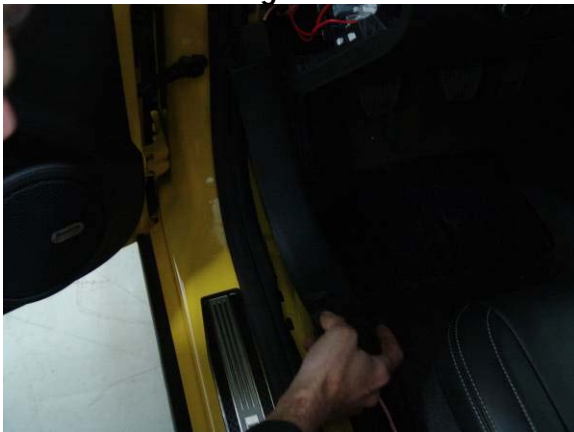
6. Remove driver's side sill plate with fingers. (Figure 6)

**Figure 6**



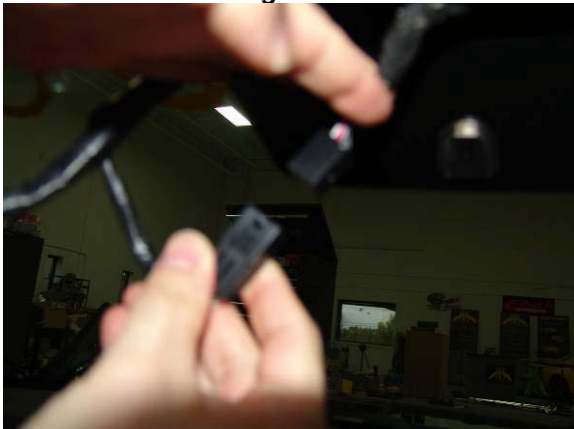
7. Remove driver's side lower kick panel with fingers. (Figure 7)

**Figure 7**



8. Connect 10 pin connector from RVS interior harness to vehicle mirror harness connector. (See Figure 8)

**Figure 8**



9. Route RVS interior harness along front edge of headliner leaving its' 16 pin connector outside of the headliner. (Figures 9 and 10)

**Figure 9**



**Figure 10**



10. Route RVS interior harness down the driver's side A pillar and through the dash. (Figure 11).

**Figure 11**



# INSTALLATION INSTRUCTIONS

**10b. For vehicles where ground, reverse and ignition all exist at the vehicle's mirror harness:**

- Tape back the green loose wire on the RVS interior harness as they will not be used.

**For vehicles where reverse does not exist at the vehicles mirror harness:**

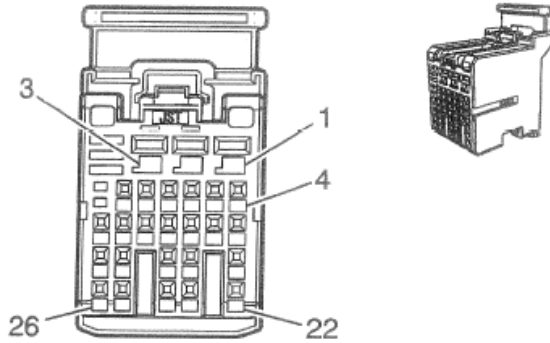
- Splice the green loose wire from the RVS interior harness to cavity 3 of BCM X7 connector. (See Figure 12 and diagram A)

Figure 12



# INSTALLATION INSTRUCTIONS

Diagram A  
K9 Body Control Module X7

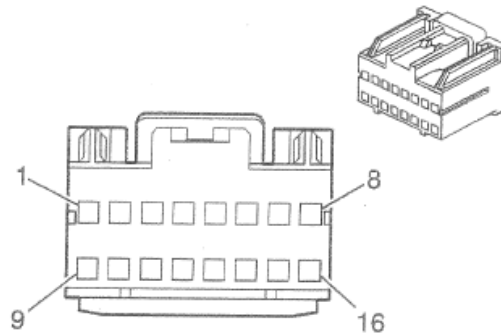


RVS  
Supplied  
Interior  
Harness  
Wire  
Color

PIN	Wire	Circuit	Circuit Description	
1	0.5 GY	157	Courtesy Lamp Control	
2			Not Used	
3	0.5 L-GN	24	Backup Lamp Supply Voltage	Green
4-5			Not Used	
6	0.35 TN	7553	Automatic Trans Shift Control Solenoid Control (MYB/MYC)	
7	0.5 OG/BK	737	Rear Compartment Lamp Control	
8			Not Used	
9	0.5 YE	6817	LED Backlight Dimming Control	
10-14			Not Used	
15	0.35 D-GN	3270	Driver Door Lock Status Signal	
16-18			Not Used	
19	0.35 WH	156	Courtesy Lamp Switch Signal	
20-26			Not Used	

# INSTALLATION INSTRUCTIONS

## REFERENCE DIAGRAM 1 Supplied Interior Harness 16 pin connector Pinout

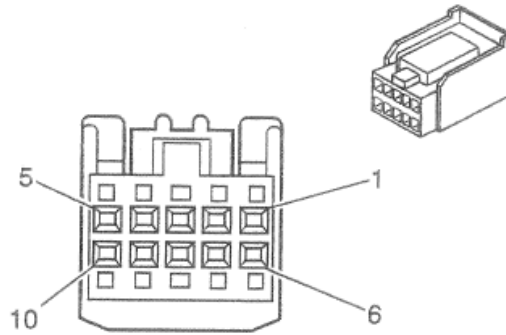


RVS  
Supplied  
Interior  
Harness  
Wire  
Color

Pin	Circuit Description	
1-4	Not Used	
5	Auto Dimming +	Yellow
6	Camera Video Signal (+)	GR/BL
7	Camera Video Signal (-)	GR/OR
8	Ground	Black
9	Backup Lamp Relay Control	Green
10	Not Used	
11	Onstar Keypad Signal	White
12	Onstar Keypad Supply Voltage	White
13	Ignition 1 Voltage	Pink
14	Onstar Keypad Green LED Signal	White
15	Onstar Keypad Red LED Signal	White
16	Auto Dimming -	Red

# INSTALLATION INSTRUCTIONS

## REFERENCE DIAGRAM 2 Supplied Interior Harness 10 pin connector Pinout

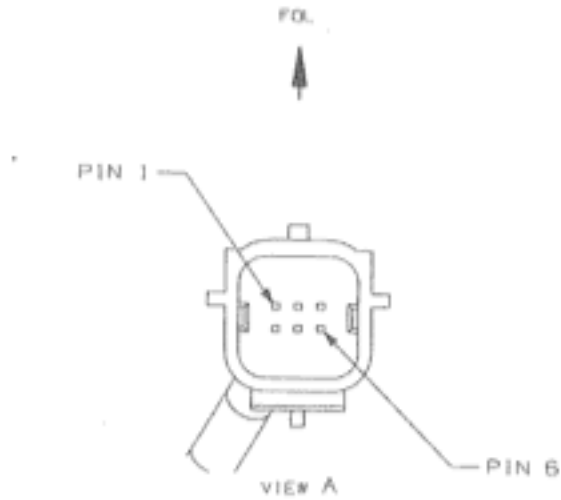


RVS  
Supplied  
Interior  
Harness  
Wire  
Color

Pin	Wire	Circuit	Circuit Description	
1	0.35 L-GN	24	Backup Lamp Supply Voltage	Green
2	0.35 PK	339	Ignition Voltage	Pink
3	0.35 D-GN/WH	2514	Onstar Keypad Signal	White
4	0.35 L-GN/BK	2515	Onstar Keypad Supply Voltage	White
5	0.35 BK	1550	Ground	Black
6	0.35 YE/BK	2516	Onstar Keypad Green LED Signal	White
7	0.35 BN/WH	2517	Onstar Keypad Red LED Signal	White
8	0.35 PK	1691	Auto Dimming -	Red
9	0.35 GY	1690	Auto Dimming +	Yellow
10			Not Used	

# INSTALLATION INSTRUCTIONS

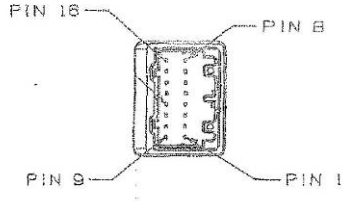
## REFERENCE DIAGRAM 3 Camera, Interior, and Chassis Harness Pinout



PIN NO	NAME	CAMERA HARNESS COLOR	CHASSIS & INTERIOR HARNESS COLOR
1	VIDEO SIGNAL	YELLOW	GRAY/DARK BLUE
2	SHIELD	WHITE	WHITE
3	BACKUP LAMP	BLUE	GREEN
4	VIDEO GND	BROWN	GRAY/ORANGE
5	POWER GND	BLACK	BLACK
6	IGNITION	RED	PINK

# INSTALLATION INSTRUCTIONS

## REFERENCE DIAGRAM 4 Supplied Mirror Pinout



PIN	Circuit Description
1	Camera NTSC Video (+)
2	Camera NTSC Video (-)
3	Camera Video Shield
4	Camera Power (+)
5	Dual Outside Drive EC (+)
6	Not Used
7	Not Used
8	Vehicle Ground (-)
9	Reverse Input (Active High)
10	Camera Power (-)
11	Onstar Keypad Output
12	Onstar Keypad Power
13	Ignition (Run Only Line)
14	Onstar LED Green
15	Onstar LED Red
16	Dual Outside Drive EC (-)

# INSTALLATION INSTRUCTIONS

11. Plug the supplied interior harness connector into the back of the supplied mirror. (Figure 13)

**Figure 13**



12. Install the supplied mirror by placing over the windshield mounting button and sliding it forward. Use a T20 Torx driver to tighten the screw on the mirror mount.
13. Remove driver's side tail lamp cover by disengaging three push pins with a push pin removal tool. (Figure 14)

**Figure 14**



14. Remove trunk rear closeout panel by disengaging six thumb nuts. Pull back trunk carpet. (Figures 15 and 16)

**Figure 15**



**Figure 16**



15. Remove one push pin using a push pin removal tool and remove one plastic nut from driver's side trunk close out panel. Then pull back panel. (Figures 17 and 18)

**Figure 17**



# INSTALLATION INSTRUCTIONS

**Figure 18**



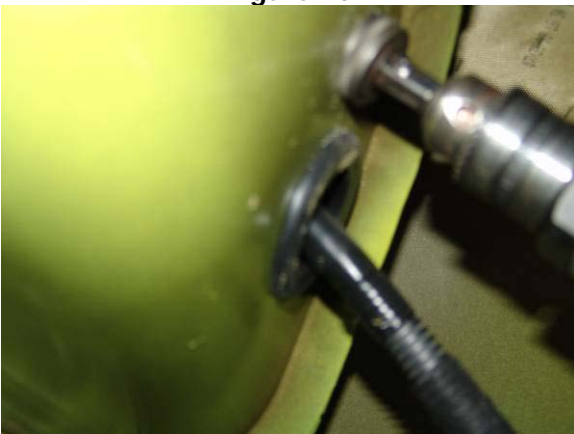
16. Cutout rear tail lamp panel template and place as shown in Figure 19 on inside of driver's side tail lamp sheet metal.

**Figure 19**



17. Drill a pilot hole. Then use a hole cutter to drill a 1 inch hole. (Figure 20)

**Figure 20**



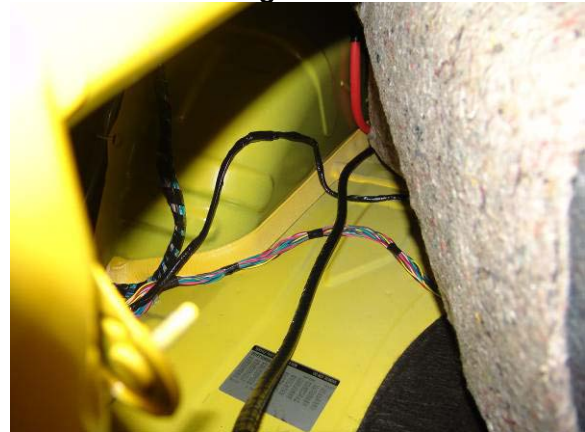
18. Clean the hole using a deburring tool and then apply Z-tech with a small brush.  
19. Route the grommet end of the chassis harness through the hole and then seat the grommet. (Figure 21)

**Figure 21**



20. Pull down the rear seat and route the RVS chassis harness through the driver's side trunk, quarter panel and front sill plate. (Figures 22, 23 and 24)

**Figure 22**

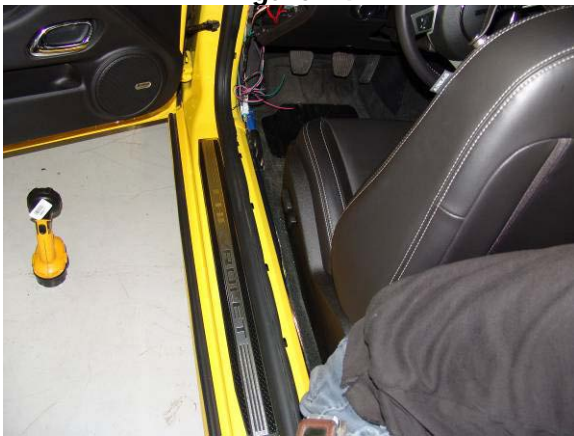


# INSTALLATION INSTRUCTIONS

**Figure 23**

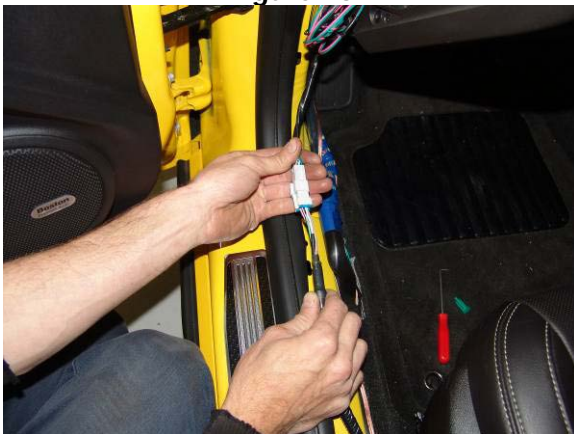


**Figure 24**



21. Connect the RVS chassis harness connector to the RVS interior harness connector. (Figure 25)

**Figure 25**



22. Loop the excess supplied chassis harness and using wire ties attach to vehicle's body harness located in driver's rear tail panel area as shown in figure 26.

**Figure 26**



23. Remove both license plate lamps using your fingers and then remove license plate by disengaging both screws with a screwdriver. (Figure 27)

**Figure 27**



24. Cutout license plate template and place between license lamp holes as shown in figure 28.

# INSTALLATION INSTRUCTIONS

**Figure 28**



25. Drill two 5/16" outside holes as indicated on the template. (Figure 29)

**Figure 29**



26. Drill a pilot hole for the center hole and then drill a 3/4" hole using a hole cutter. (Figure 30)

**Figure 30**



27. Remove the camera from its harness by unscrewing the two screws with a Phillips screwdriver while making sure that the white retaining O ring seal remains at the end of the harness. (Figure 31)

**Figure 31**



28. Route the camera harness through the left license lamp hole and then through the drilled center hole. (Figure 32)

**Figure 32**



29. Attach the camera to its harness with the two screws. (Figure 33)

# INSTALLATION INSTRUCTIONS

**Figure 33**



30. Install the two supplied weld nuts into the two drilled 5/16" holes. Place the camera mounting over the weld nuts and install the two supplied screws into the weld nuts using a Phillips screwdriver. (Figure 34)

**Figure 34**

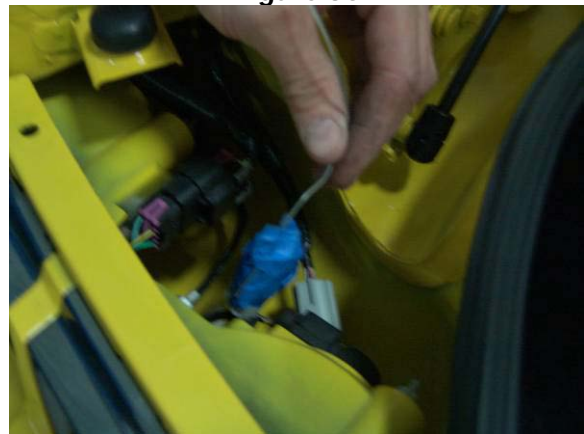


31. Route the camera harness through the license lamp left opening and then behind the left tail lamp opening. (Figures 35 and 36)

**Figure 35**



**Figure 36**



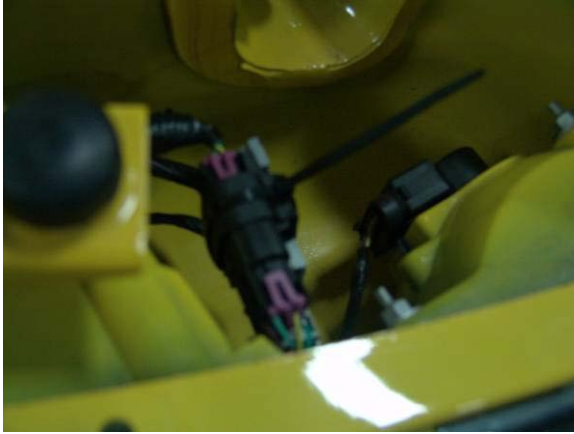
32. Connect the camera harness connector to the chassis harness connector and then using supplied zip ties attach to existing vehicle harness. (Figures 37 and 38)

**Figure 37**



# INSTALLATION INSTRUCTIONS

Figure 38



33. Reinstall both license lamps and license plate with two screws.
34. Push up the rear seat.
35. Reinstall driver's side trunk close out panel with one push pin and one plastic nut, reinstall trunk rear closeout panel with six thumb nuts, push down trunk carpet and reinstall driver's side lamp cover using three push pins.
36. Reinstall driver's lower kick panel, driver's sill plate, driver's side dash panel and driver's A pillar.
37. Start the vehicle and put it into reverse in order to check that all connections were made properly. If all of the connections are correct you will see an image displayed on the left side of the supplied mirror.

