

## 2003 - 2005 MODEL YEAR CROWN VICTORIA AND GRAND MARQUIS VEHICLES — HEADLIGHTS INOPERATIVE

### OVERVIEW

In some of the affected vehicles, the lighting control module (LCM) may develop a crack on a solder joint which connects a relay to the circuit board. This may result in the headlights not illuminating, increasing the risk of a crash at night. The headlights may have intermittent operation or flicker prior to loss of headlights. In the event of the loss of headlights, the flash-to-pass operation is still functional.

Dealers are to install a LCM bypass module kit on all affected vehicles. This service must be performed on all affected vehicles at no charge to the vehicle owner, even if headlamps are functioning properly.

### SERVICE PROCEDURE

1. Test the operation of all exterior lights.
  - If all lights function properly, or all lights except headlight low-beams function properly, proceed directly to Step 2 to install the LCM bypass module.
  - If any other exterior light does not function properly, normal diagnostic and repair procedures must be performed and are not covered by this safety recall.
    - If the LCM is determined to be the root cause of the exterior lighting concern, contact the SSSC via the web contact site.
    - After all exterior lighting concerns have been resolved, proceed to Step 2 to install the LCM bypass module.
2. Remove the LCM to access the connectors at the rear of the module. Please follow the Workshop Manual (WSM) procedures in Section 419-10.

**NOTE:** It is not necessary to completely remove the accelerator pedal as directed in the WSM. Remove the fasteners and position the accelerator pedal aside.

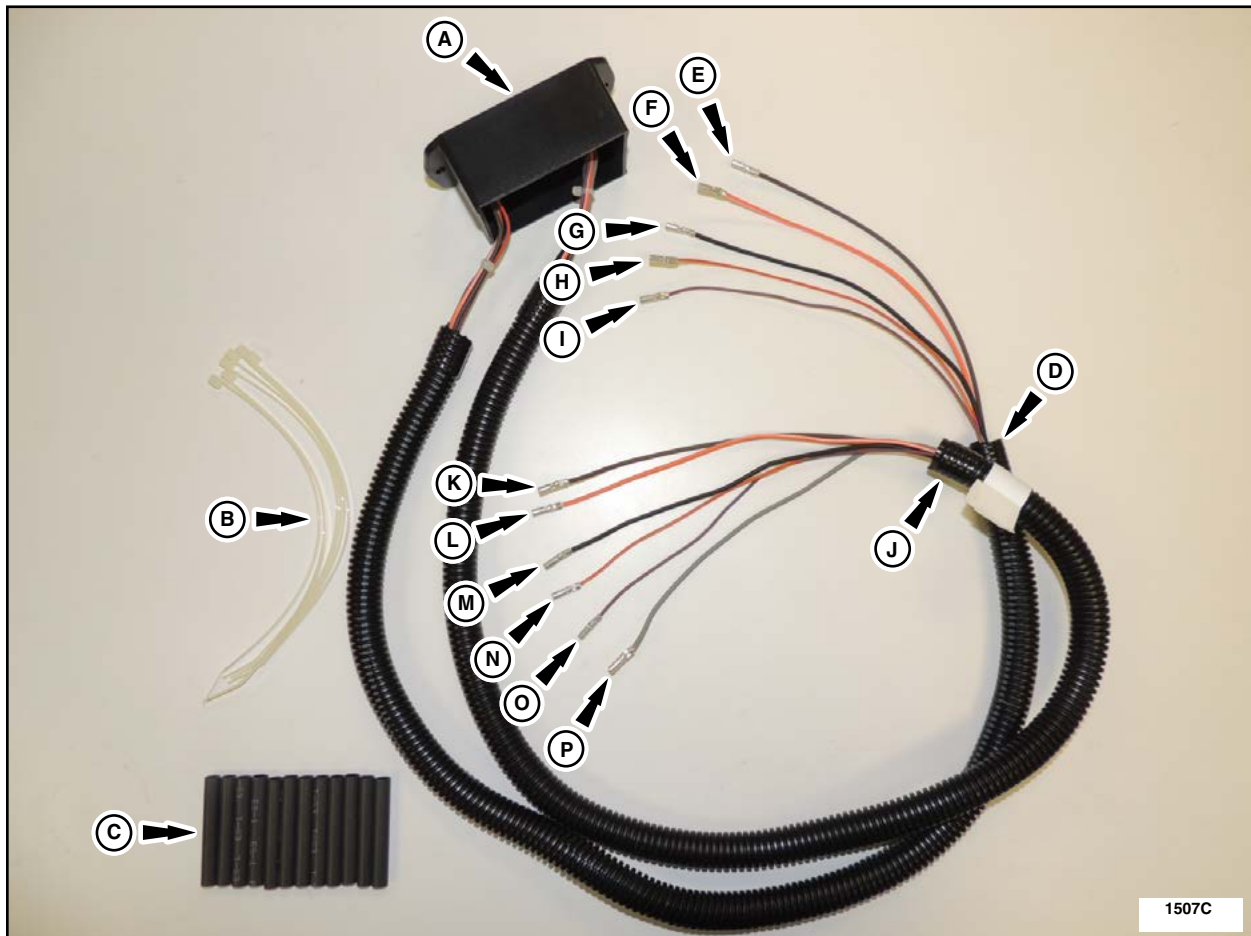
**NOTE:** The negative battery cable must be disconnected when performing this procedure.



**Kit Contents:**

- A. LCM Bypass Module
- B. Zip Ties
- C. Heat Shrink Tubing
- D. 5-Wire Side of Harness
- E. Brown (BN) wire
- F. Orange/White (OG/WH) wire
- G. Black (BK) wire
- H. Red/Yellow (RD/YE) wire
- I. Violet/Orange (VT/OG) wire

- J. 6-Wire Side of Harness
- K. Brown (BN) wire
- L. Orange/White (OG/WH) wire
- M. Black (BK) wire
- N. Red/Yellow (RD/YE) wire
- O. Violet/Orange (VT/OG) wire
- P. Gray (GY) wire



**FIGURE 1**

**NOTE:** The 5-wire side of the LCM bypass module must be connected to the LCM (component) side of the harness.  
The 6-wire side of the LCM bypass module must be connected to the vehicle side of the harness.  
The 6-wire side of the LCM bypass module harness has a part identification label attached near the end of the convolute.



3. Cut the appropriate circuits on the vehicle harness near the LCM connectors leaving at least 1.5 in (3.8 cm) of wire available on both sides of cut. For connector and pin identification, please refer to pages 5-8.

**NOTE:** Install heat shrink tubing over LCM bypass wires before splicing wires to vehicle harness. Use a heat gun to shrink the tubing after completing splices.

4. Complete the wiring connections by following the connector repair procedures for the crimp splicing method. Refer to Wiring Diagram, Section 5.

5. Reinstall the LCM. Please follow the WSM procedures in Section 419-10.

**NOTE:** Do not install the instrument panel lower insulator until after the LCM bypass module and harness have been mounted and secured.

6. Mount the LCM bypass module to the metal instrument panel brace located under the driver side instrument panel, above the park brake mechanism. Figure 2.

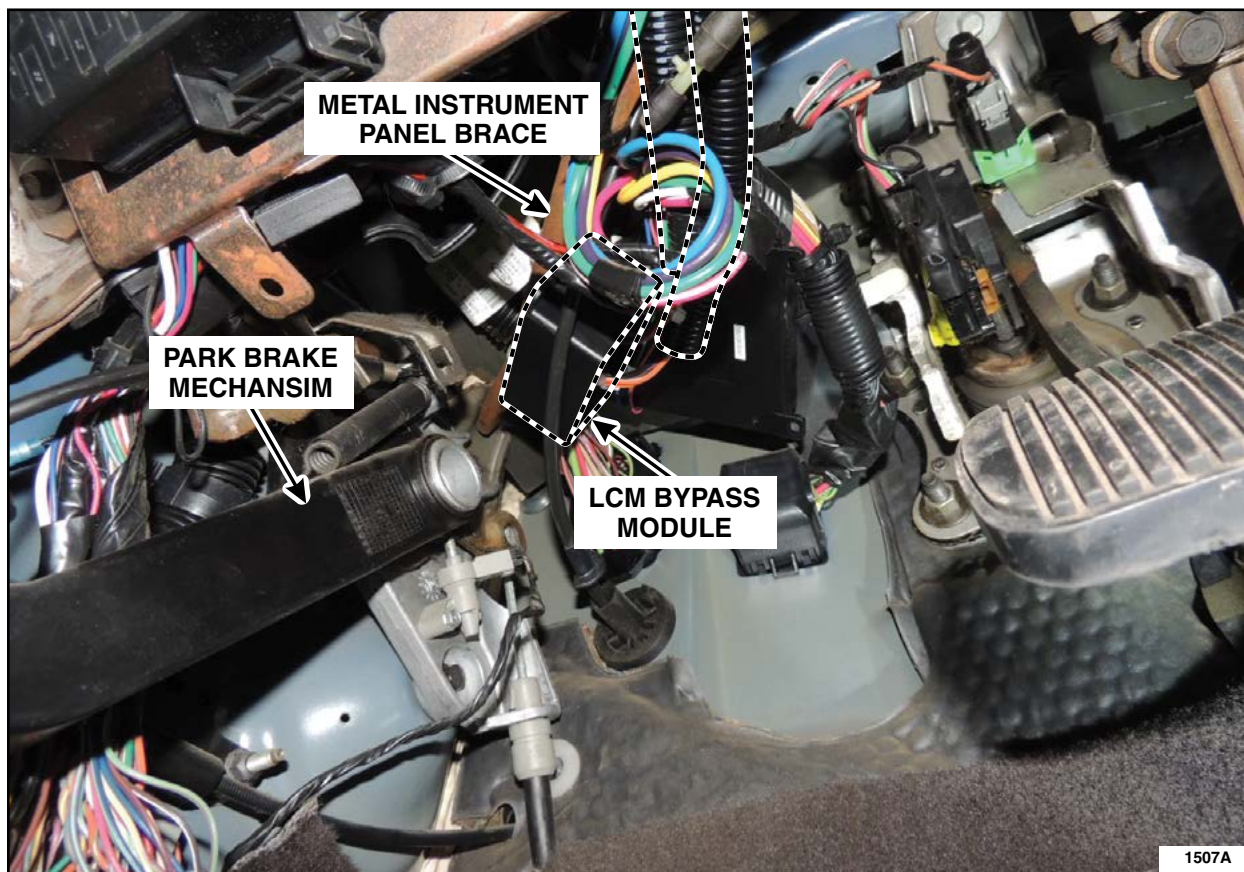
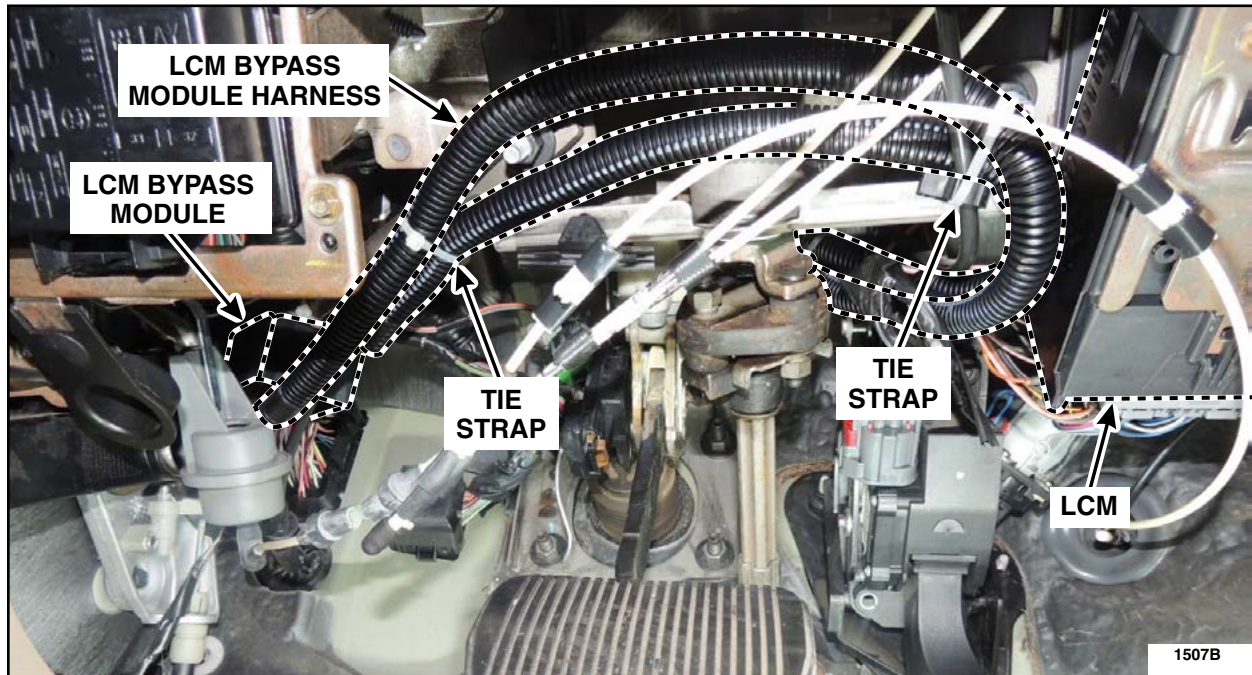


FIGURE 2



7. Route and secure the LCM bypass module harness as shown in Figure 3, using tie straps as necessary.

**NOTICE:** Verify the LCM bypass module harness is secured away from all sharp edges and moving parts.



**FIGURE 3**

8. Install the instrument panel lower insulator. Please follow the WSM procedures in Section 419-10.

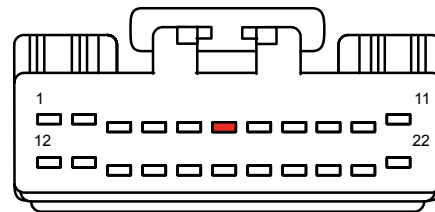


WIRING SCHEMATICS

**C2145a** (GY)

**14401**

Lighting control module



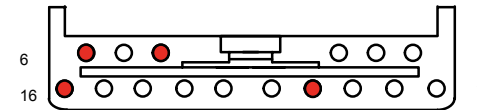
FEMALE

Pin	Circuit	Circuit function
6	220 (VT/OG)	Autolamp On/Off signal

**C2145b** (BK)

**14401**

Lighting control module



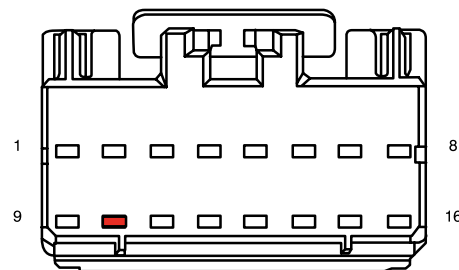
FEMALE

Pin	Circuit	Circuit function
4	14 (BN)	Power, Exterior lamps
6	221 (OG/WH)	Voltage supplied at all times (overload protected)
10	57 (BK) '03-'04 57 (PK/OG) '05	Ground
16	502 (GY)	Cornering lamp, Power, feed

**C2145c** (GY)

**14401**

Lighting control module



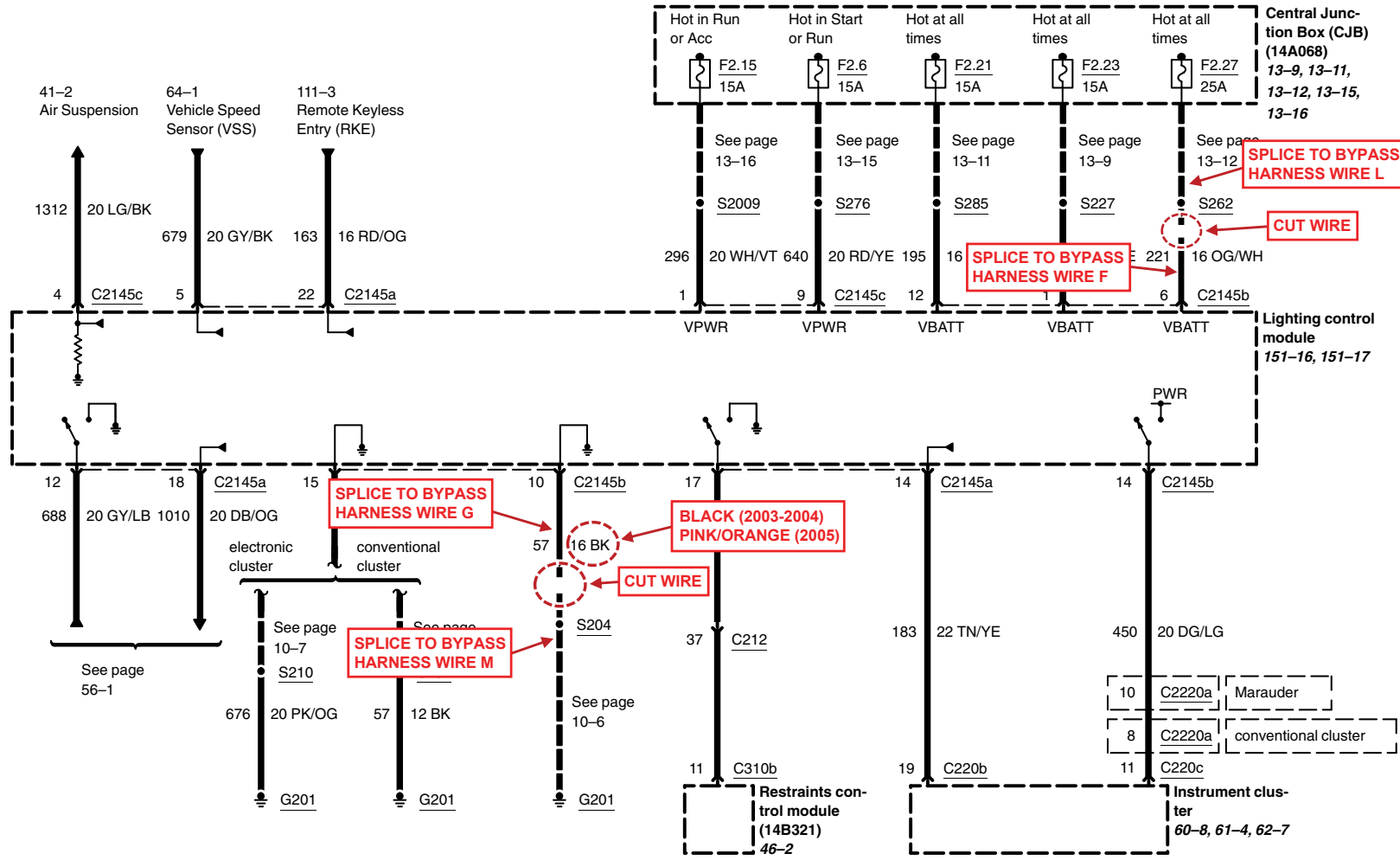
FEMALE

Pin	Circuit	Circuit function
10	1033 (RD/YE)	Headlamps, On/Off signal



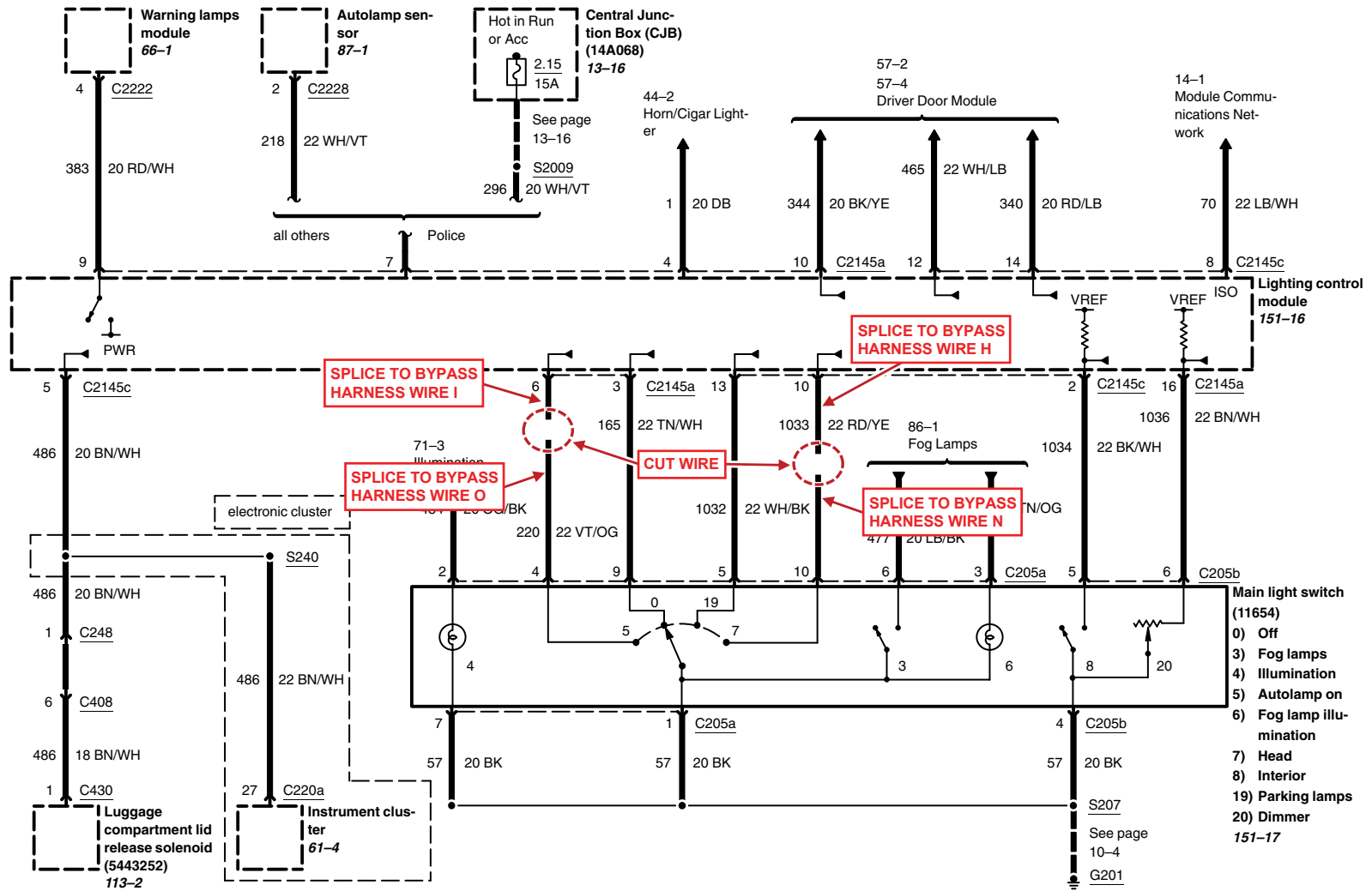
**NOTE:** Refer to Figure 1 for LCM bypass harness wire identification.

The 5-wire side of the bypass module will ALWAYS be connected to the LCM (component) side of the harness.  
The 6-wire side of the bypass module will ALWAYS be connected to the vehicle side of the harness.  
The black wire from the bypass module will be connected to circuit 57 (C2145b pin 10).  
In the vehicle, circuit 57 will be black for model years 2003-2004 or pink/orange for model year 2005.



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