

# Q-176



## **SVE BULLETIN**

**SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE**

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QVM Bulletin: Q-176

Date: 12/12/08

### **2009 E-Series Separating STOP/TURN Lamps Using Modified Vehicle Wiring**

#### **Models Affected**

2009 Model Year E-Series

#### **Purpose**

To meet some government regulations and guidelines, it may become necessary to separate the rear stop and turn/hazard lighting. The 2009 model year E-series uses the Smart Junction Box (SJB) technology, which combines the stop and turn/hazard into a single signal to the rear lamps.

#### **Description**

This bulletin explains the location and descriptions of circuits included in the Modified Vehicle Wiring system that enable the user to separate the rear stop and turn/hazard lighting.

#### **Procedure: Separate Rear Turn Lamps**

1. Find 6-way customer access connector near brake pedal assembly (see attachment 1). Due to the 200mA current limit on these circuits, it is necessary to install relays to control the Turn Lamp load. The relays should not exceed 250mA to energize.
2. Install two relays using ckt# CLS25 YE-VT & ckt# CLS21 BU-GN customer access wires (located in customer access connector - see attachment 1) to energize the relays. See attachment 2 for typical installation method.
3. Ground each relay
4. Remove and seal rear Stop/Turn lamp wiring from OEM connector housing
5. Route relay output wiring to LH/RH rear turn lamps
6. Install fused feed (ckt# SBB68 GN-RD wire at customer access connector) to each relay to control lamp load.
7. Lamps should be grounded per manufacturer's recommendation.

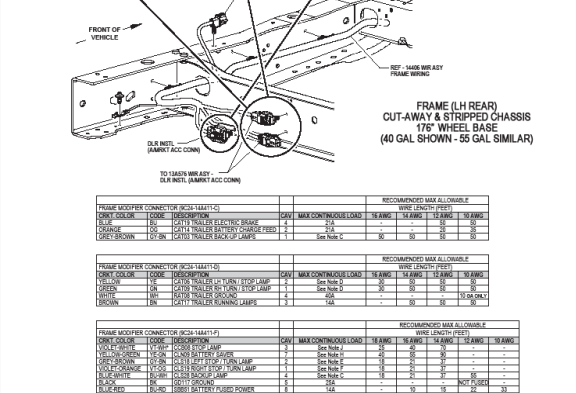
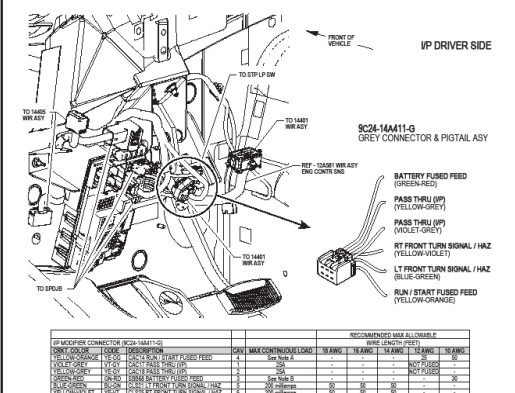
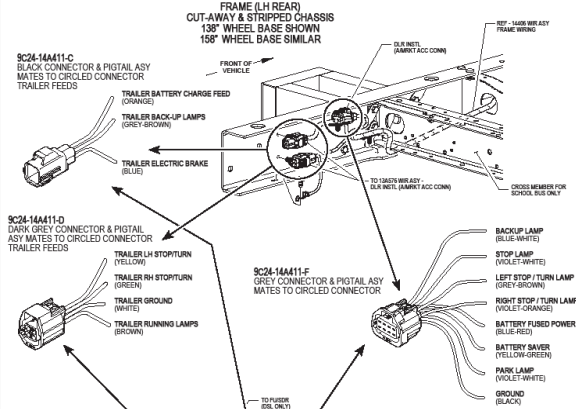
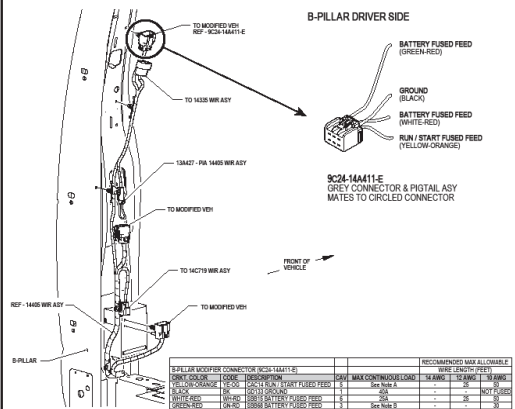
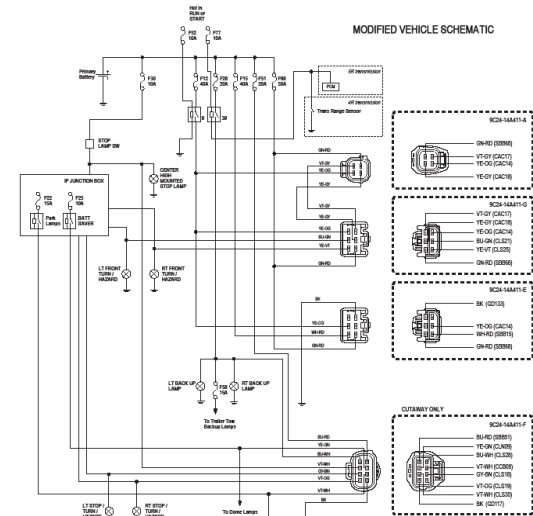
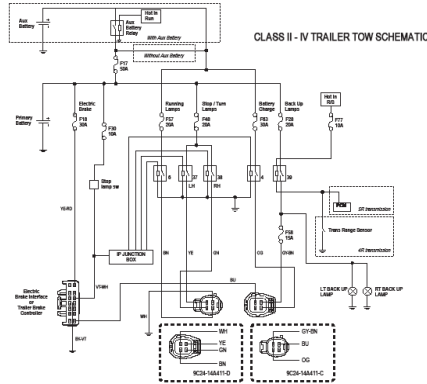
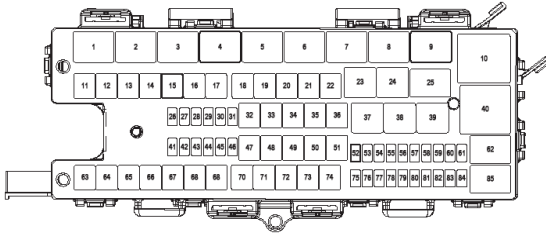
#### **Procedure – Separate Stop Lamps**

1. Find 8-way customer access connector near rear of frame (see attachment 1).
2. Remove and seal current rear lamp lighting from OEM connector housing.
3. Route ckt# CCB08 VT-WT\* (use circuit in cavity #3) to new stop lamp assembly.
4. Lamps should be grounded per manufacturer's recommendation.

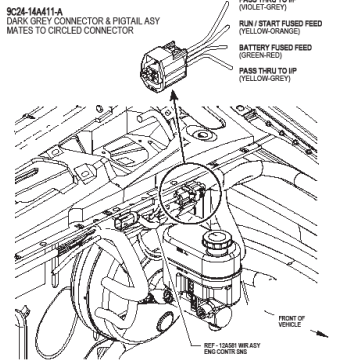
NO. SK-9C24-14A351-AB

BODY BUILDER ADVISORY SERVICE  
1-800-453-6289

LH POWER DISTRIBUTION BOX  
TRAILER TOW RELAY LOCATION  
MODIFIED VEHICLE FUSE / RELAY LOCATION  
(GAS BOX SHOWN - DIESEL SIMILAR)



VIEW OF FRONT END ENGINE COMPARTMENT (LH SIDE)  
(GAS VEHICLE SHOWN - DIESEL SIMILAR)



DATE	LET	REVISIONS	CG	MAN	CK	APP
		RELEASE SK-9C24-14A351-AA AE00-E-12032275-000				
		RELEASE SK-9C24-14A351-AB AE00-E-12116315-001				

PART MUST COMPLY WITH SPECIFICATION WSS-M99P9990-A  
TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT

PRODUCT ENGINEERING ORIGINAL WHEN RED

DO NOT SCALE ABOVE SCALE FOR REFERENCE ONLY

REF	DRAWN BY	DATE	CHECKED	SCALE	APPROVED
Technical Illustration Corp.	080520	R. PALA			D. SCOTT

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN  
[ ] INCHES [ ] MILLIMETERS  
ANGULAR DIMENSIONS  
MATERIAL APP DATE

NAME SKETCH-KIT - CAMPER WIRING  
NO. SK-9C24-14A351-AB

**Sample Installation for Turn Signal relays**

