



## Engine And V-MAC III System Will Not Shutdown



> **Internal Content**

The problem with the truck not shutting down is a failed diode located in the wiring harness behind the "D" panel in the dash. This failed diode allows battery voltage to backfeed from fuse 19 to the low brake warning lamp, following through the lamp to wire no. 7-E-0.8. This wire connects to the diode and allows battery voltage to travel through the diode to wire no. 7-C-0.8 to the emergency stop lamp relay and through to VJ1-1-0.8 to still allow a 12 volt input into the ignition terminal "VJ1-1" on the VECU module, keeping the V-MAC system operational and engine running.

When the ignition key is in the "off" position, depress the service brake several times until the air system pressure goes below 65 psi. This should activate the low air warning light and buzzer, causing an engine shutdown. When the service brake is depressed several times to lower the air system pressure to 65 psi, this allows the low air pressure switches to close and provide a ground path through the diode to the emergency stop lamp relay, which will eliminate the 12 volt battery voltage feed to the VECU module. By doing this, the 12 volt battery voltage feed will be replaced with a ground and not allow battery voltage to feed back to the VECU module, and allow the truck to shut down with the key in the "off" position.

The failed diode will need to be replaced to bring the truck back to normal operating condition.

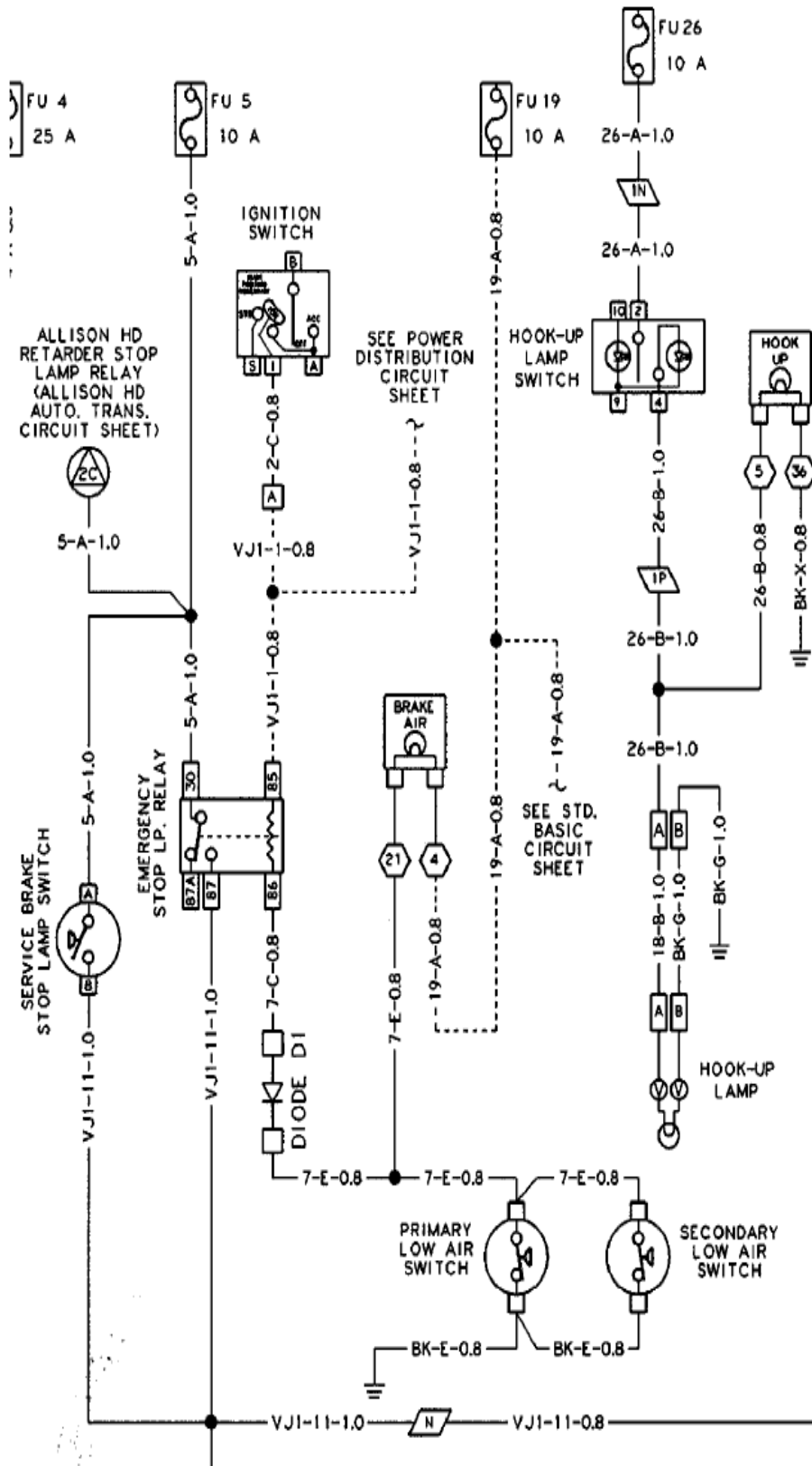
The following chart shows the trucks affected, diode part number, diode location, and wiring diagram for reference purposes only. For identification purposes the following diodes can be described as:

**38MJ229M**—a straight 3 inch piece of wire.

**12135028**-----a small circuit board.



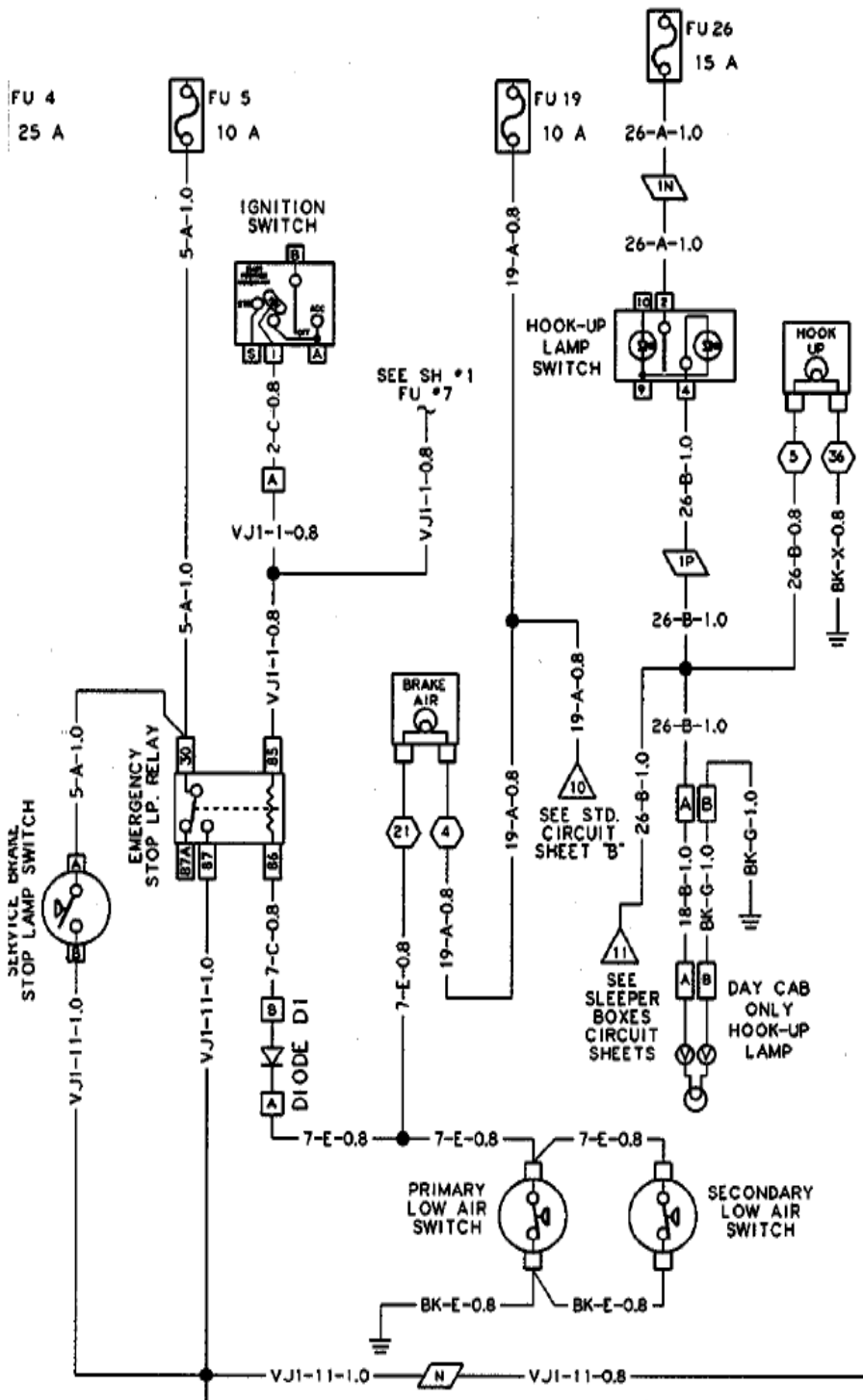
| Model | Diode Part No. | Diode Location   | Wiring Diagram |
|-------|----------------|------------------|----------------|
| CX    | 38MJ229M       | Behind "D" Panel | 8MR51349       |
| CX    | 12135028       | Behind "D" Panel | 8MR51349       |
| CHK   | 38MJ229M       | Behind "D" Panel | 8MR51349       |
| CHK   | 12135028       | Behind "D" Panel | 8MR51349       |
| CH/CL | 38MJ229M       | In Cab PDM       | 8MR51313       |
| CV    | 12135028       | Behind "D" Panel | 8MR51355       |



8MR51355 Wiring Diagram

Models Affected ( CV )

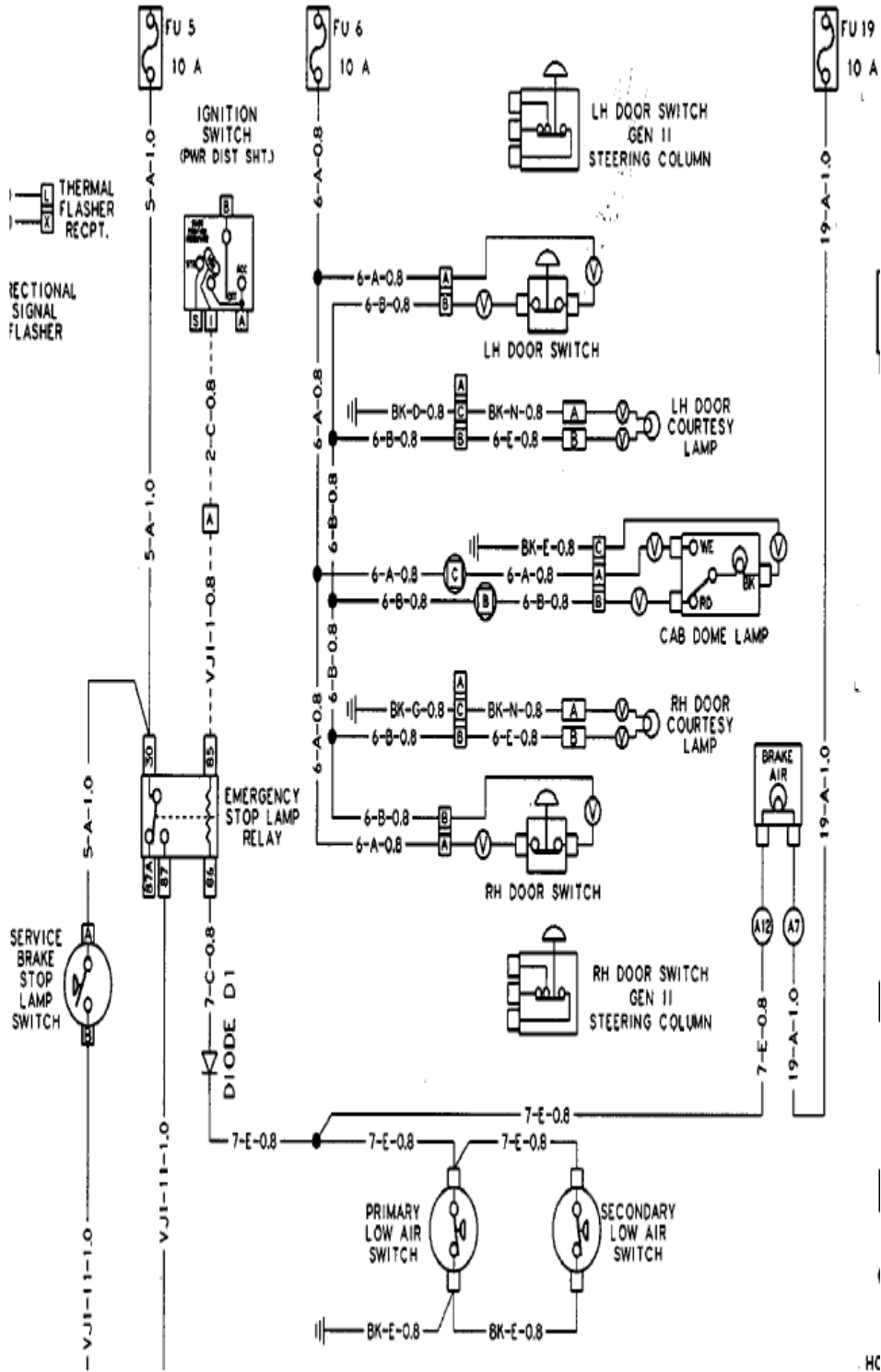




Live UI

8MR51349 Wiring Diagram

## Models Affected ( CX & CHK )



### 8MR51313 Wiring Diagram

Models Affected ( CL & Old CH )



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