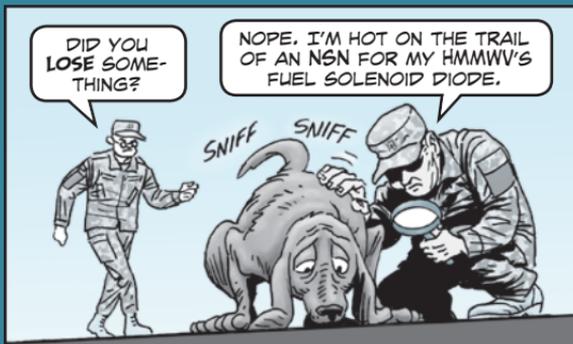


HMMWVs... **Mystery of the Missing Diode**



Dear Half-Mast,

I'm having a hard time finding the NSN for the fuel solenoid diode for my HMMWV. The diode connected to wire 54C of the engine wiring harness burned up. Any assistance you can offer will be greatly appreciated.

CW3 B.S.B.

Dear Sir,

Glad to help.

NSN 5961-01-180-5634 is the fuel solenoid diode that burned out in your HMMWV. When that happens, however, TACOM LCMC recommends replacing it with a fuel solenoid flyback diode, NSN 5961-01-593-3791. That diode provides better electrical protection.

You can tell the two diodes apart by the protective shrink sleeve on each. The flyback diode has a blue sleeve. The old diode's sleeve is black.

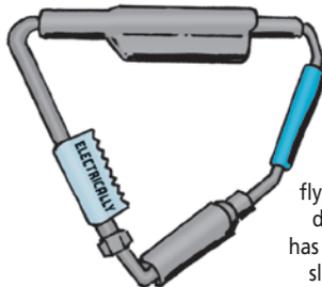
The old diode is still being used, though. It should be applied to the horn circuitry for vehicles with serial number 255269 and above that have the Smart Start System (S³). So both diodes will be added to the HMMWV parts TMs in a future update.

The main reason for the original diode's failure is that vehicles are being improperly slave started. That causes a transient voltage spike that can damage other electrical components as well as the diode.

Following the improved slave starting procedure released in TACOM maintenance action message 11-041 can help with this issue. You can find the message on the TULSA website:

https://tulsa.tacom.army.mil/maintenance/mam/tacom_wn/ma11-041.html

Half-Mast



New flyback diode has blue sleeve