

# TECHNICAL BULLETIN

Product: InPower Model ITM115 Wheelchair Lift Interlock  
Application: Ford E-Series vans  
Subject: Improper connection of +12 volt power to ITM115 interlock module  
Date: November 21, 2005

## **WARNING**

The ITM115 wheelchair lift interlock module must receive its +12 volts power source **ONLY** from an ignition-switched source. That is, the +12 volts must only be active when the ignition switch is in the On position, and it must be fuse protected.

If the +12 volt power source is supplied from any non-ignition switched source (such as directly from the battery), the wheelchair lift could be operated when the parking brake is not set.

## **Explanation**

The Ford "sleep circuit" activates approximately 25 minutes after the ignition switch is turned off. When in the sleep mode, the parking brake switch circuit produces a false Parking Brake Set signal to the ITM115 interlock module indicating that the parking brake is set when it may not be. Due to this sleep circuit operation, if the ITM115 interlock module is powered with the ignition switch in the Off position, the wheelchair lift could be operated with the parking brake in the released (not set) position. Note that although the lift could be operated with the parking brake released, the ITM115 interlock module requires the transmission to be in Park, thereby preventing vehicle motion and satisfying FMVSS 403 requirements.

## **Solution**

Check pin 15 on the ITM115 interlock module to ensure that +12 volts is supplied **ONLY** when the ignition switch is in the On position. If no power is supplied when the ignition is Off, no action is required.

If the ITM115 interlock module is receiving power on pin 15 when the ignition switch is Off, the wire must be reconnected to a source of +12 volts that is only active when the ignition switch is in the On position. Further details can be found in the InPower Owners Manual OM-33, Revision C.

## **Reference Documents**

ITM115 Interlock System Product Data Sheet  
ITM115 Interlock System Owners Manual

InPower Document PDS-41A  
InPower Document OM-33 Rev. C