



# TECH TIPS

**Dixie Part Numbers:** A-2066, A-2067, A-2081 and S-2095

**Applications:** 2003 – 2006 Ford Expedition  
2003 – 2006 Lincoln Navigator

**Condition:** The vehicle operator may complain of battery drain or dead batteries when the car is left unused. This could also result in complaints of long hard cranking, the vehicle requiring a boost to get going or repeat alternator failures.

**Cause:** A possible cause for this is excessive quiescent draw (parasitic drain or KOL in Ford speak... key-off-load) in the system.

**Correction:** When checking for quiescent load take care, the system has a stand-by mode, which draws just under 1A (860 mA) of current for the first 30 to 45 minutes after the last electrical instance (dome light off typically). After that the vehicle goes into sleep mode and typically draws 28 mA.

The manufacturer suggests disconnecting all aftermarket accessories installed by the vehicle owner, however that could lead to a misdiagnosis if one of those accessories was the cause for the drain. Dixie recommends testing the vehicle as used by the owner and trouble shooting from that point. If the draw is less than 30 mA the issue is not from a quiescent draw.

If the quiescent drain exceeds 30mA in sleep mode or 850mA in stand-by mode disconnect any aftermarket accessories and retest the system. If the drain still exceeds the limits indicated follow the manufacturers' recommended procedures. **Warning** not all modules can be disconnected to isolate the cause of the problem, doing so could result in vehicle/module damage (\$\$\$\$).