

ASO – TRAX II Diagnostic Trouble Code (DTC)

(REV 1.1 5/13/2011)

ASO – Auxiliary (Tank) Sender Open – the fuel level sending unit in the auxiliary tank is reading an open condition

Symptoms:

- You see these sequence of events on your TRAX-II display during start-up:
 - Aux Tank displays full for the first two minutes
 - During the first two minutes the screen may fade in and out
 - After two minutes the Aux Tank display
 - Changes to 0 gallons
 - STATUS changes from 'STATUS OK' to 'ASO'
- Your system is not transferring fuel.

Troubleshooting Steps You Can Do Before Calling Transfer Flow:

Put the TRAX-II SYSTEM in Diagnostic Mode:

1. To access the advance menus on the TRAX-II module, hold down both the SELECT and SET buttons simultaneously, and then key on the vehicle (do not start the vehicle). When the serial number appears on the screen for example **T-9J29-12345**, then release both buttons. This will access the advanced menus.

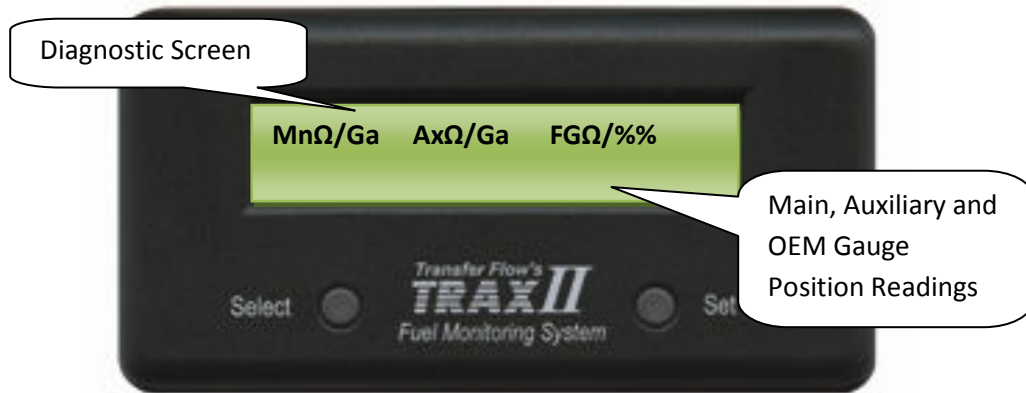
CAUTION: WHEN IN THE ADVANCED MENUS DO NOT ENTER THE “GAUGE CALIBRATION”, “FUEL TANK CALIBRATION” OR “FUEL TANK ADJUSTMENT” SCREENS. YOU MAY ACCIDENTLY CHANGE THE CALIBRATION DATA AND MAKE THE TRAX-II MODULE NOT PROPERLY FUNCTION. IF YOU DO GET INTO ONE OF THESE SCREENS TURN THE VEHICLE OFF AND START OVER.

2. The first screen will display the **DTC Screen**. Press the **Next/Select** button to change the screen to the **Diagnostic Screen** and press **Enter/Set**.



- This will bring up the **Diagnostic Screen** which will tell you the resistance and gallon readings in both your main tank and auxiliary tank, along with where your fuel gauge position, displaying the fuel capacity of both tanks combined.

Mn is the main OEM tank, **Ω** is resistance in ohms, **Ga** is gallons, **Ax** is auxiliary tank, **FG** is fuel gauge, % of full in main tank.



The TFI Auxiliary Tank (Ax) should read about 25 Ohms when Empty and 265 Ohms when Full.

If the display shows 'AxΩ' is 511 ohms then there is an open circuit to the Auxiliary Tank sending unit. Please contact Transfer Flow at (800) 442-0056 or (530) 893-5209.

You can also verify the fault is with the Auxiliary Sender using an Ohm meter or Multi-meter on the Ohms or resistance setting.

- Unplug the auxiliary sending unit from the TFI main harness.
- Connect one lead to the **Yellow with White Strip wire** lead which is the Sender Signal.
- Connect the other lead to the **Pink with Orange Strip wire** lead which is the Sender Ground.
- Record the reading displayed on the Ohm meter.

The fuel volume of your Aux Tank should be reflected on your Ohm meter in proportion to a referenced 25 Ohms Empty and 265 Ohms full scale. Please call Transfer Flow (800) 442-0056 for assistance at this point and explain what Ohm/resistance readings you observed. We hope this helped you diagnose any issues you might have with our tank system and thank you from all of us at Transfer Flow. Please explain when you call that you used the 'ASO Online Troubleshooting Guide'.