Fuel Level Diagnostics

Generation 4 Ford Vehicle

VIN/Body Number: _____ Odometer: _____

Complaint: _____

DTC's: _____

Fuel Gauge readings- (Please indicate the physical location of gauge with an 'x')

Cluster (IPC) E- 1/4- 1/2 3/4- F

Fuel tank E- 1/4- 1/2- 3/4- F

Passenger Tank (dual tank systems only) E- 1/4 1/2- 3/4 F

Sender Twinsite voltage check (perform voltage checks with key on)

Measure the voltage on pins A and C at the Twinsite connector (harness side):

Driver _____V Passenger (if dual tank) _____V

Expected Value: ≈5v. If below 5v, perform SRM 5v Reference Output Check

Measure the voltage of Twinsite installed on the fuel tank on pins B and C:

Note: Twinsite must be plugged in

Driver _____V Passenger (if dual tank) _____V

Expected Value Range: ≈0.1v – 4.9v

Sender sweep check

Remove the Twinsite from the tank and measure the voltage sweep of the Twinsite. Use gravity or a piece of non-magnetized ferrous metal, like a socket, to manipulate the gauge through its range of travel.

Voltage sweep from full to empty on pins B and C:

Driver E=_____V F=_____V Passenger (if dual tank) E=_____V F=_____V

Expected Value: ≈0.1v – 4.9v voltage should vary smoothly through range

SRM 5V Reference Output Check (if not 5v Reference at Twinsite)

Reinstall Twinsite to fuel tank and measure voltage at SRM connector C1 on pin 4: ____V

Dual tank system, measure voltage at SRM connector C1 on pin 5: _____V

Expected value: Voltage at SRM should match voltage found at each Twinsite.

Verify continuity from SRM connector C1 pin 3 to Ford Fuel Tank Assy Inline connector C18 pin 2 (E-series/F-450/550/59/53) or C7 (F-650/750). Repair circuit if necessary.

Please contact ROUSH CleanTech for any questions on this diagnostic procedure. Diagnostic Quick Reference Sheets are intended to be used in conjunction with your vehicle service manual available at https://www.roushcleantech.com/service-manuals/. Follow all safety procedures in your vehicle service manual. Technicians working on propane fuel system must complete appropriate training.