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CWH

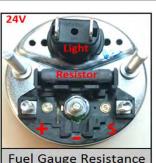
LNG Fuel Gauge Troubleshooting Flowchart SCANIA

Capacitance & Voltage Specifications SCANIA

Capacitance

Compare readings from all capacitance tests to the following graphs according to the tank size being tested and feed through cable (+/- 10 pF).

Note: If tank contains LNG, capacitance readings will reflect that level as a reading within the range between "Empty" & "Full" capacitances listed.



Fuel Gauge Resistance			
24V			
Contact	Ohms		
Light Terminals	22		
(S) and (-)	251		
(+) and (S)	393		
(+) and (-)	500		
Resistor	221		

Tank Outside Full Empty Diameter Capacitance Capacitance 22" VDO 343 pF 437 pF 26" VDO 400 pF 517 pF 527 pF 26" Bonus VDO Type 404 pF 346 pF 516 pF 26" Bonus Voltage Type

Tank Outside Diameter	Empty Capacitance	Full Capacitance
22" VDO	372 pF	466 pF
26" VDO	429 pF	546 pF
26" Bonus VDO Type	433 pF	556 pF
26" Bonus Voltage Type	406 pF	576 pF

Tank Outside Diameter	Empty Capacitance	Full Capacitance
22" VDO	312 pF	406 pF
26" VDO	369 pF	486 pF
26" Bonus VDO Type	373 pF	496 pF
26" Bonus Voltage Type	346 pF	516 pF

381mm/15" Feed Through



686mm/27" Feed Through



Bare Wire



Input Voltage

Supply voltage will be measured on the "RED" wire. Supply voltage will be ~24 VDC depending if the engine is operating, and the functional state of the batteries & charging system. Low/High supply voltages can cause incorrect signal voltages

Signal Voltage

Signal voltage will be measured on the "Green" wire. Signal voltage is driven by capacitance and will vary depending on the amount of LNG in the tank, and supply voltage.

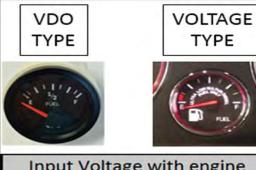
Ground Resistance

Ground resistance will be measured on the "Black" wire. Connect one test lead to the black wire from the sending unit and the other to the tank for ground. Reading should be less than one ohm.

Red Wire = Supply Voltage
Green Wire = Signal Voltage
Black Wire = Ground







Input Voltage with engine operating, and charging system & batteries operating ~24VDC Voltage Type

Bonus Tank Empty 0.5
Full 4.5

VDO Type

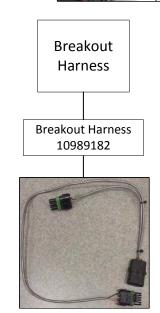
Empty

Full

4.5

0.5





Volt Meter with Test Leads



Standard

Tank