

DCWB CCS2 EV Connector Measurement

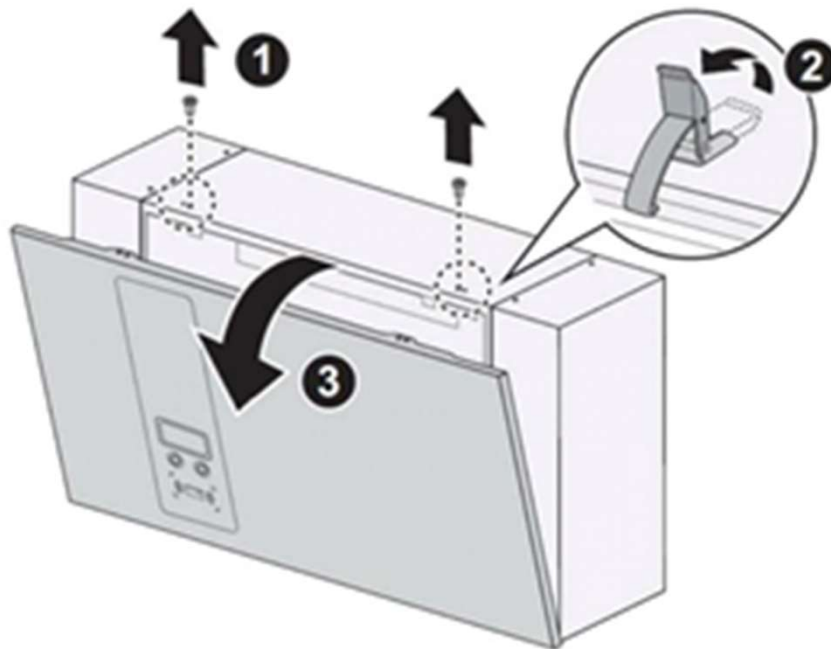
2019

D016_v1.0



Steps

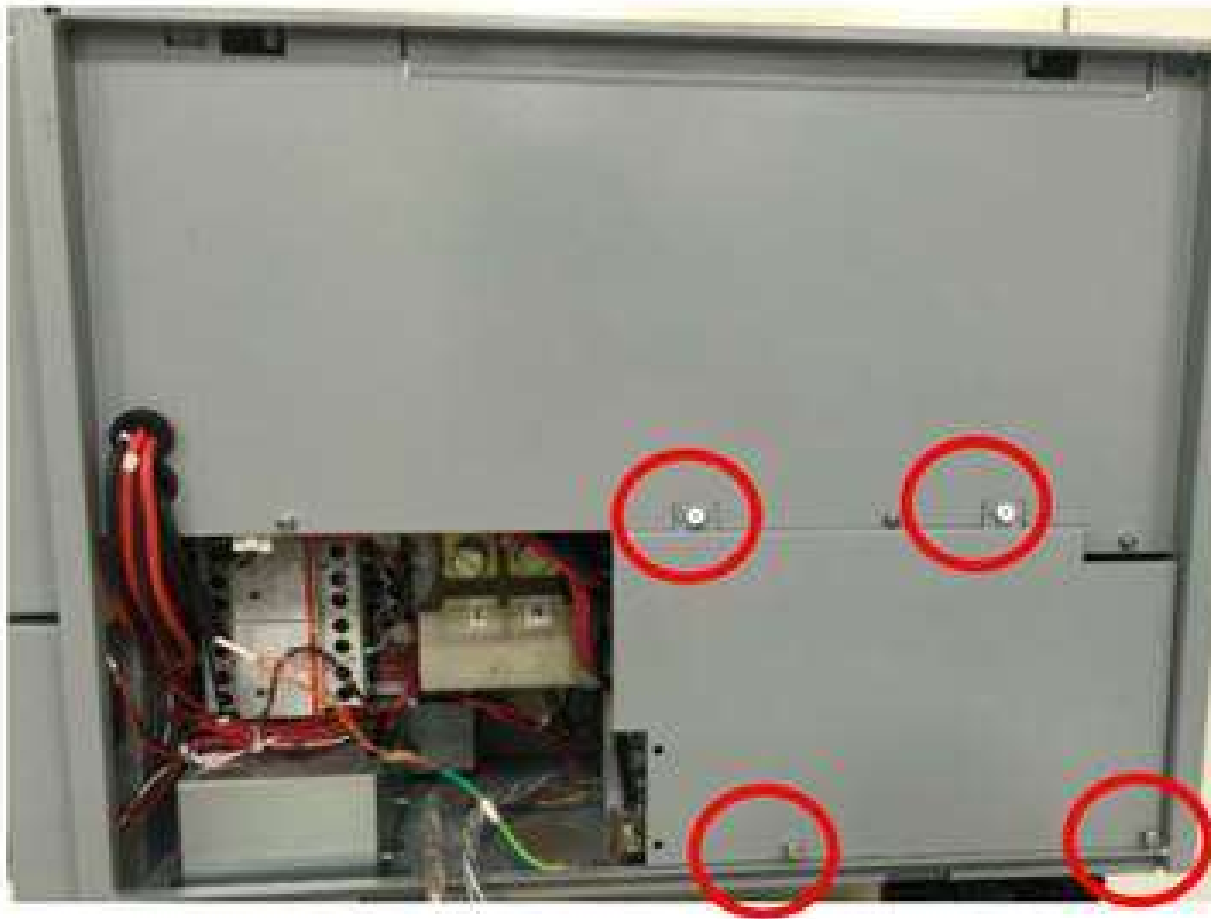
1. Cut down power completely from upstream breaker.
2. Open the front cover



- Release two screws on top (T15)
- Release the latches to open front cover.
- Put down front cover gently.

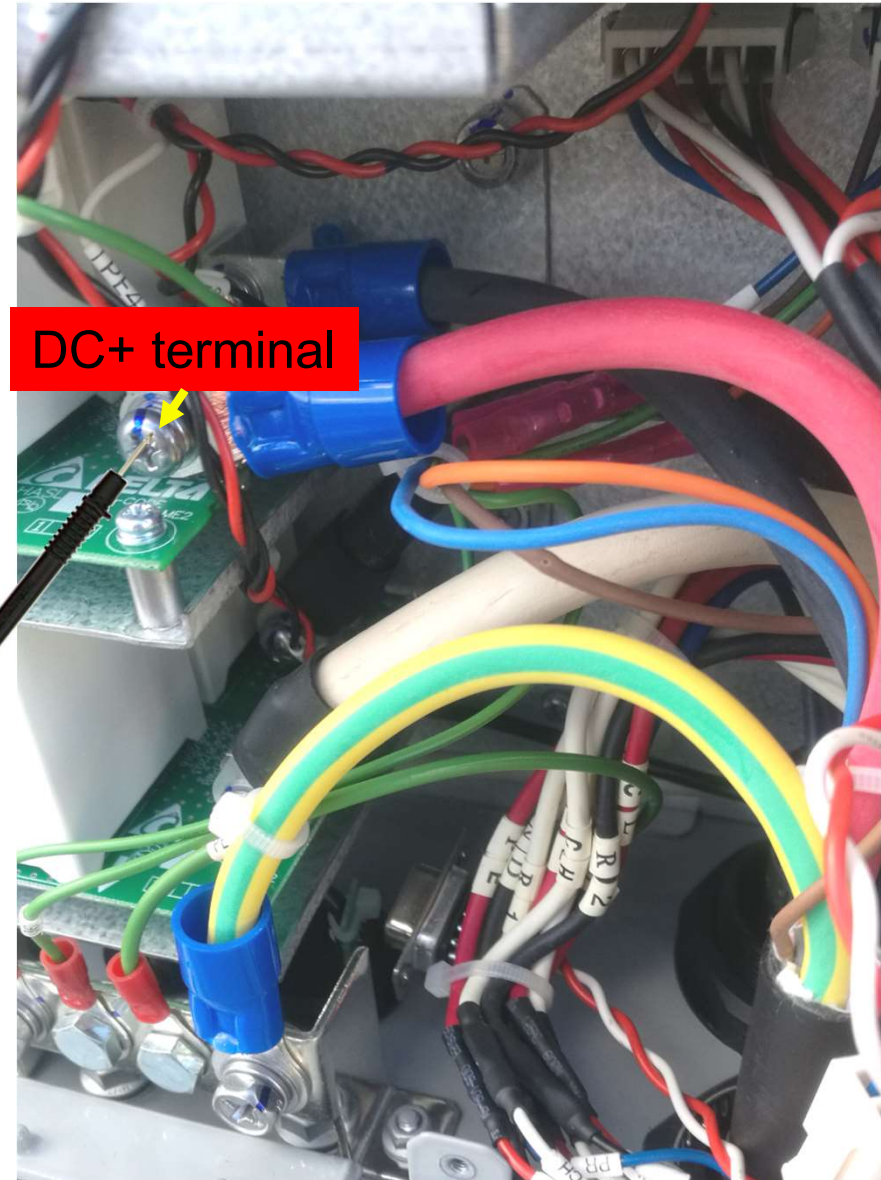
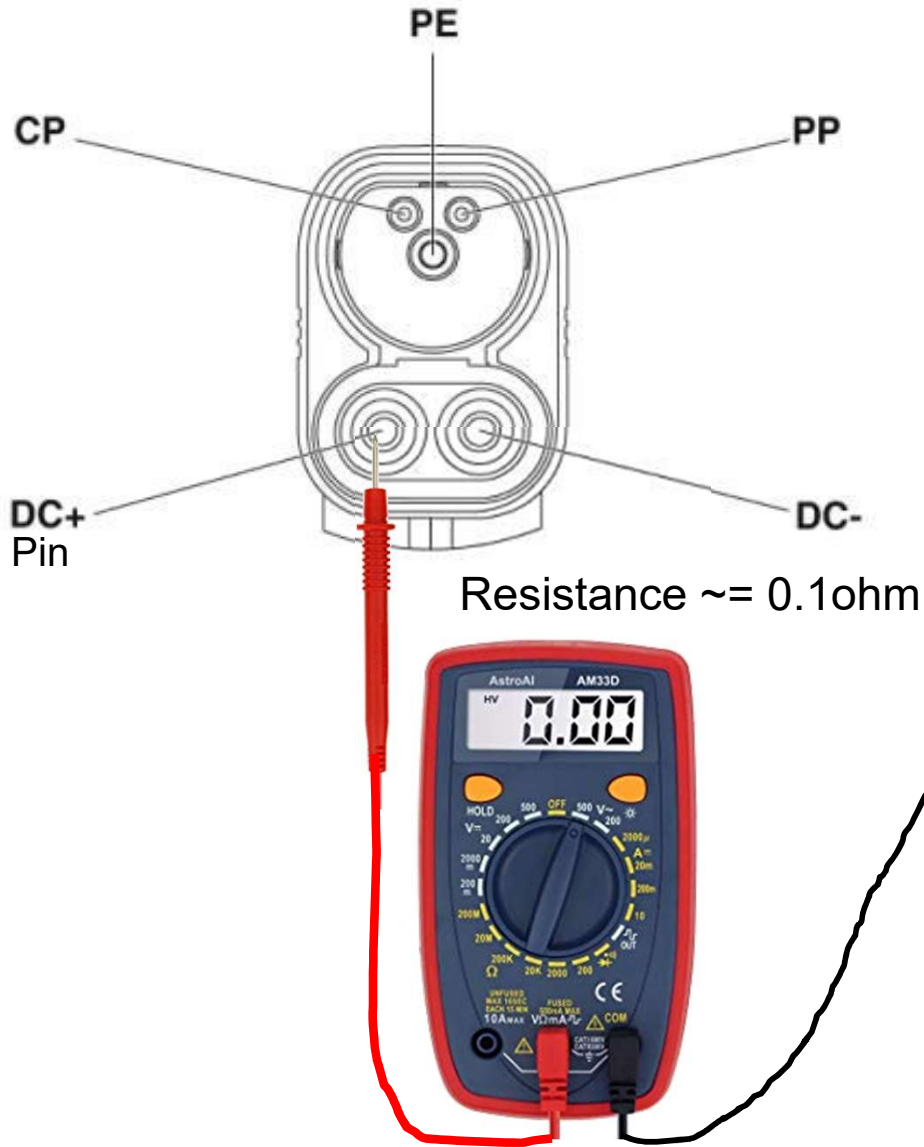
Steps

(3). Release 4 screws and remove the inner cover plate.



CCS2 EV Connector Measurement

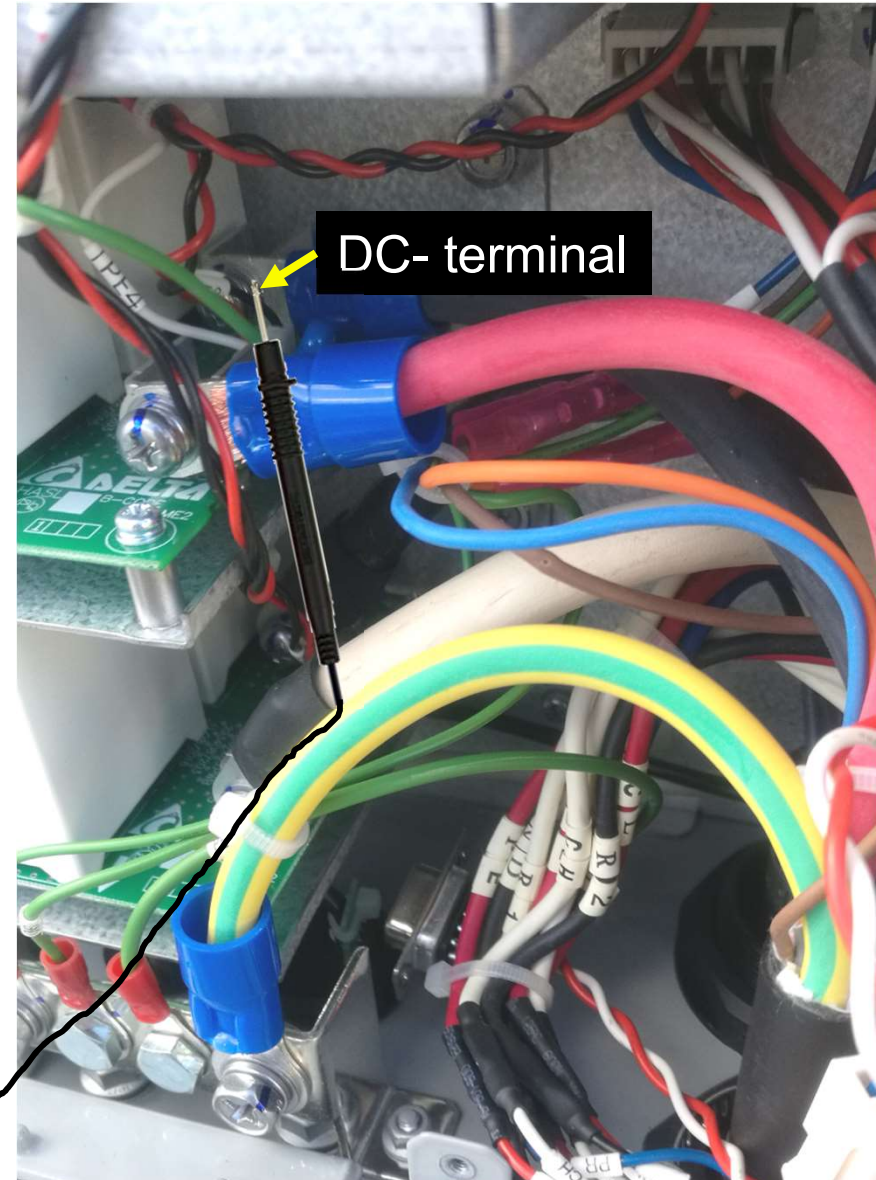
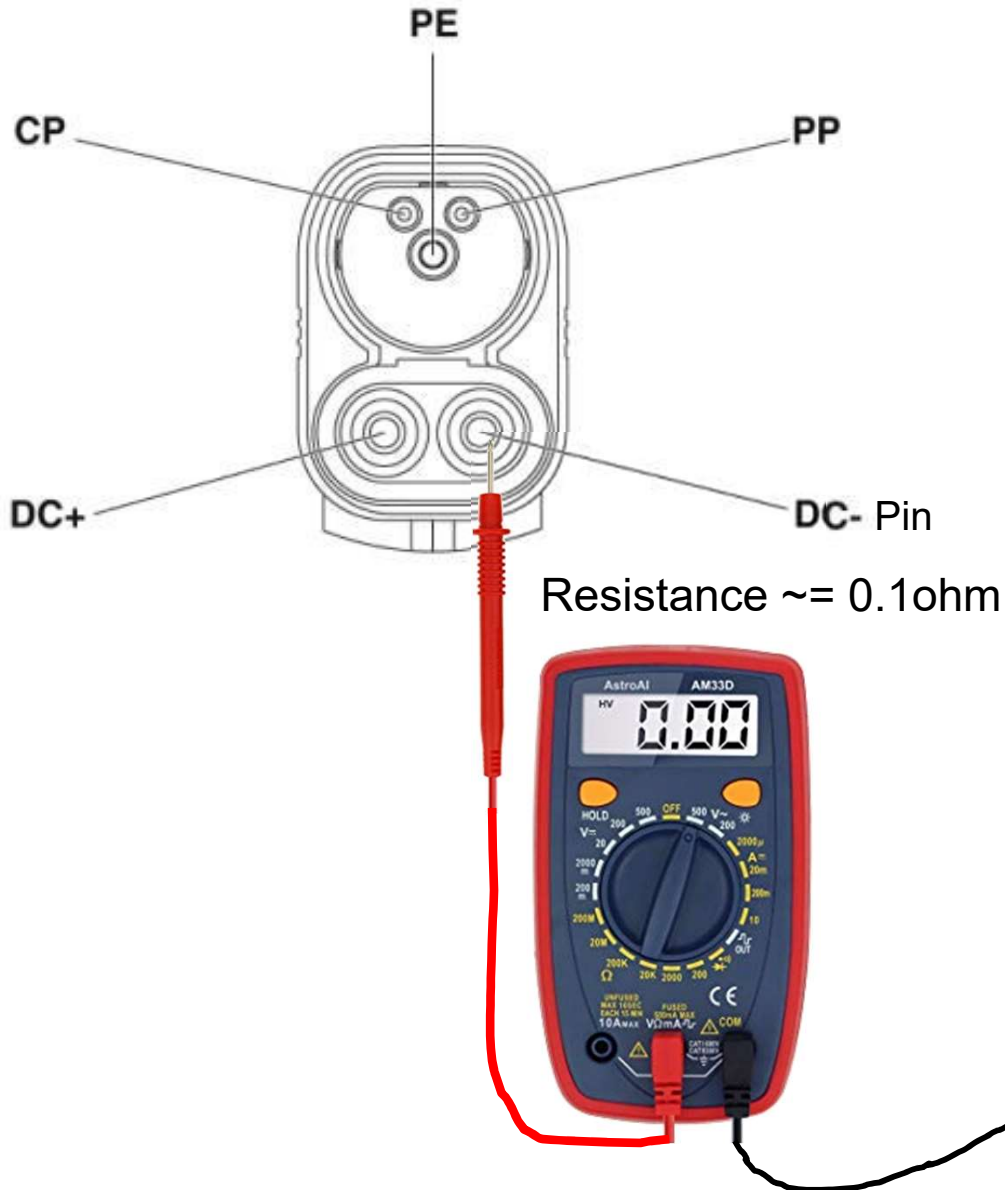
(4). Use multimeter to check connectivity is good between CCS gun DC+ pin and DC+ terminal



multimeter switch to ohm scale

CCS2 EV Connector Measurement

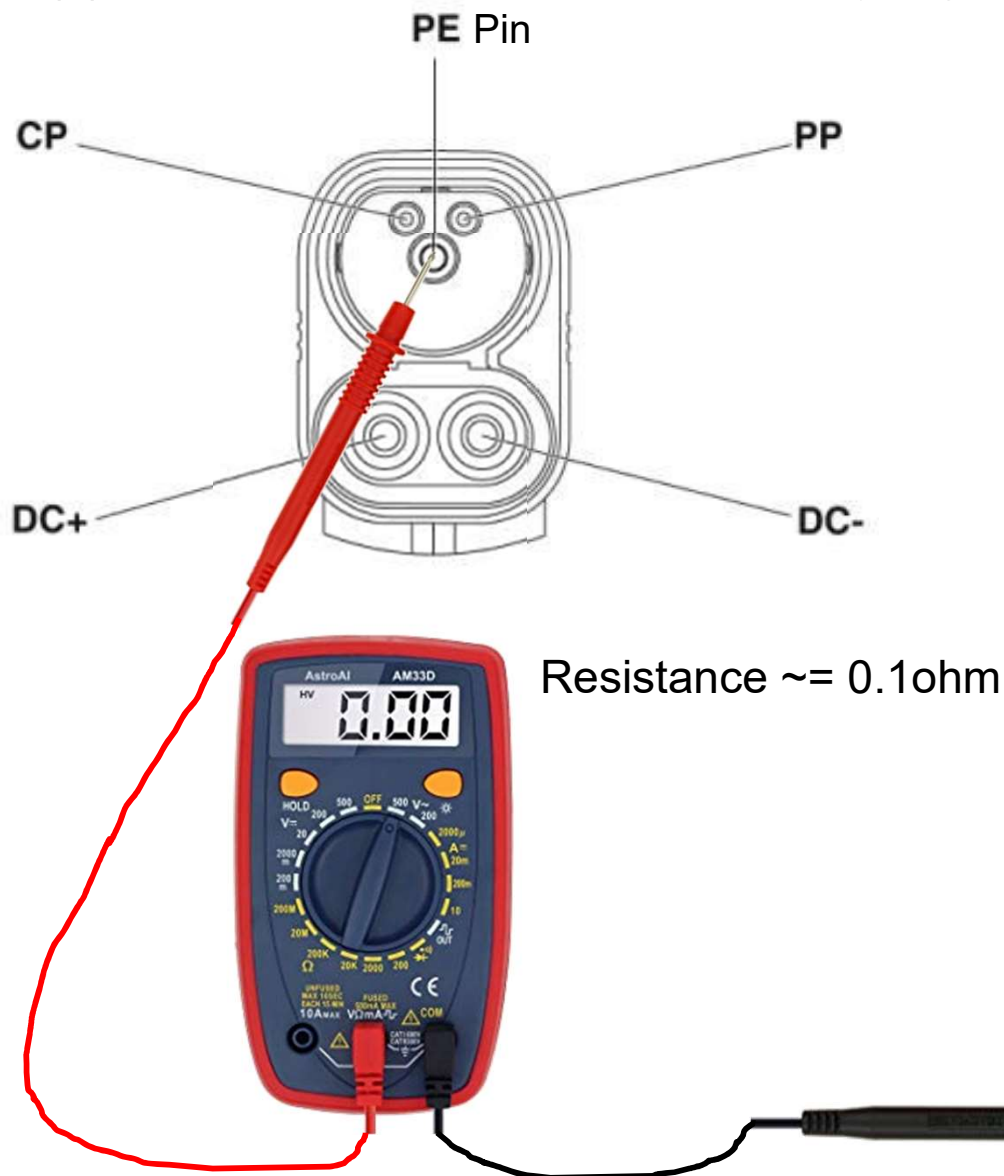
(5). Use multimeter to check connectivity is good between CCS gun DC- pin and DC- terminal



multimeter switch to ohm scale

CCS2 EV Connector Measurement

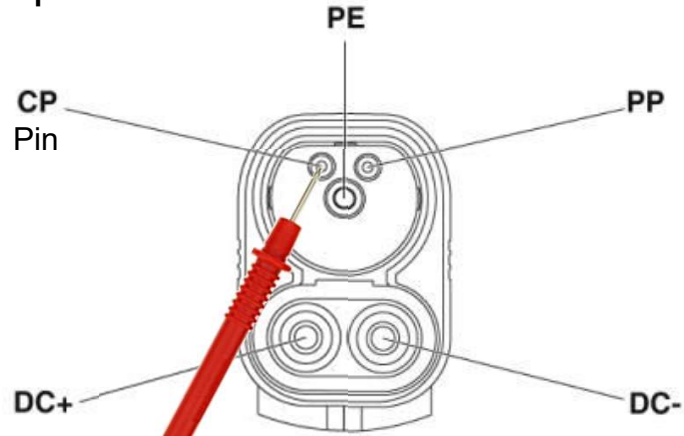
(6). Use multimeter to check connectivity is good between CCS gun PE pin and PE terminal



multimeter switch to ohm scale

CCS2 EV Connector Measurement

(7). Unplug the CCS signal plug and use multimeter to check connectivity is good between CCS gun CP pin and Pilot CP terminal on the plug

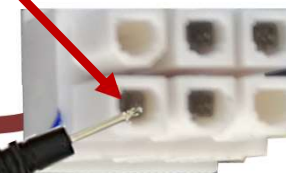
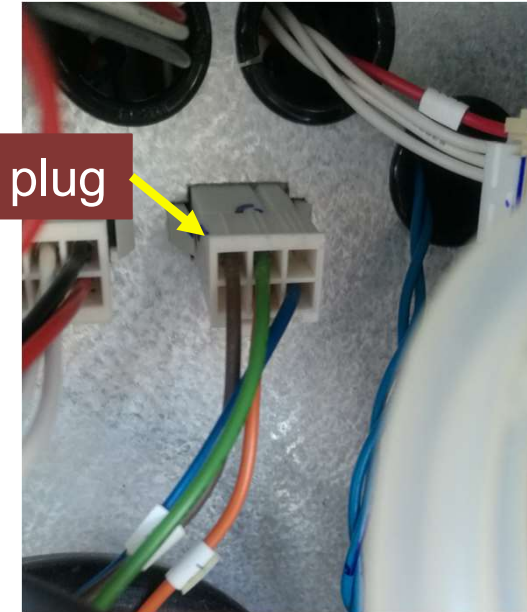


Resistance $\approx 0.1\Omega$



CCS Pilot CP terminal
(linked with brown cable)

Pilot CP signal cable

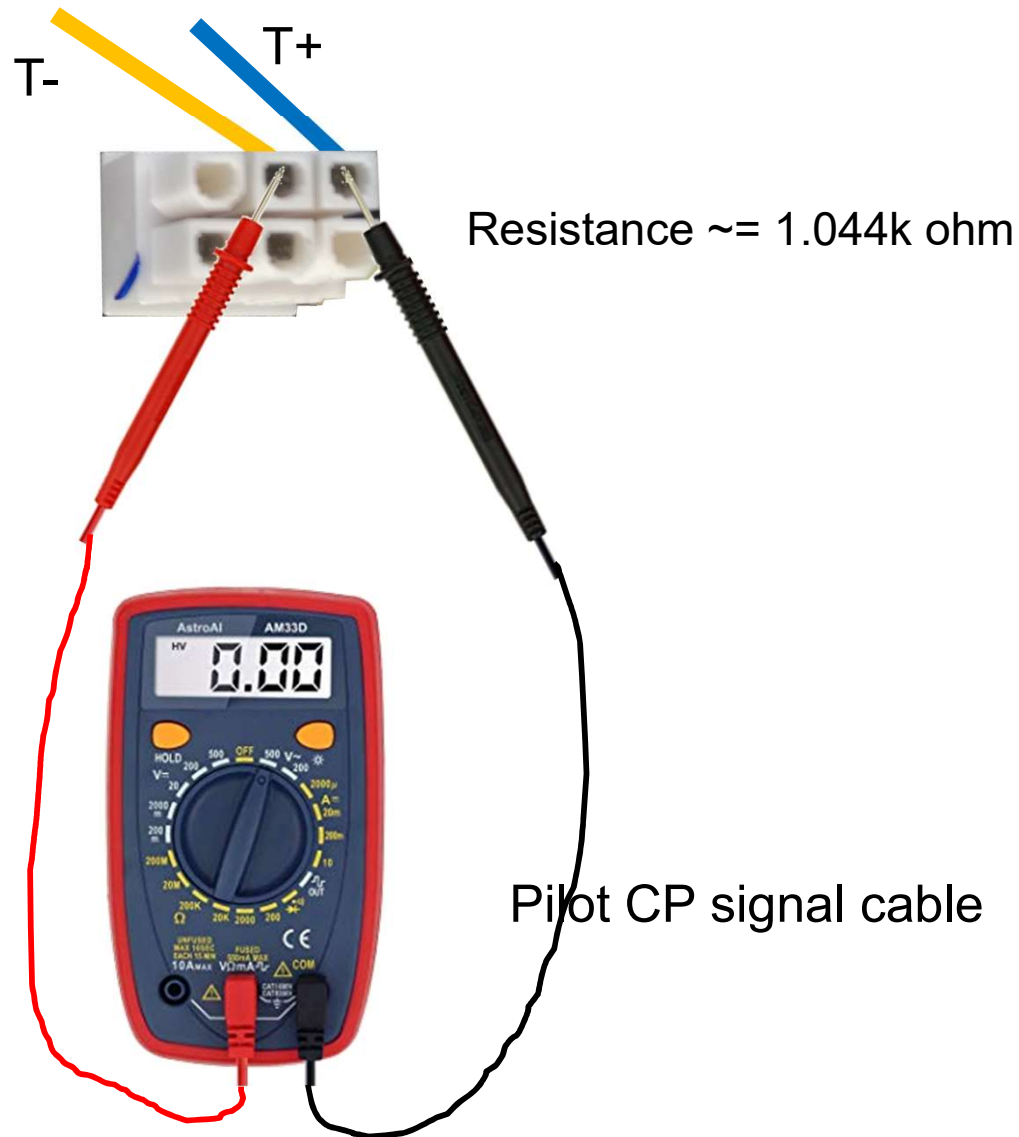


multimeter switch to ohm scale



CCS2 EV Connector Measurement

(8). Use multimeter to check resistance between T+ T- temperature sensor cable, $R \approx 1.044k \text{ ohm}$

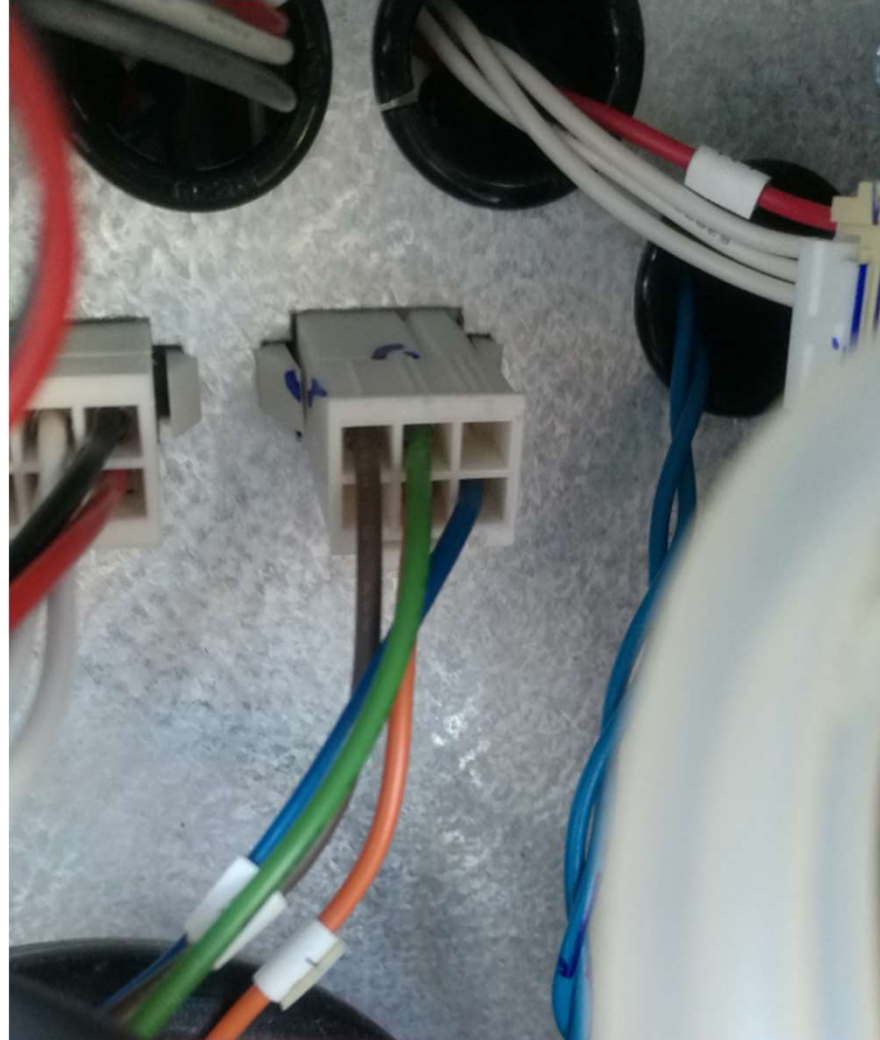


multimeter switch to ohm scale



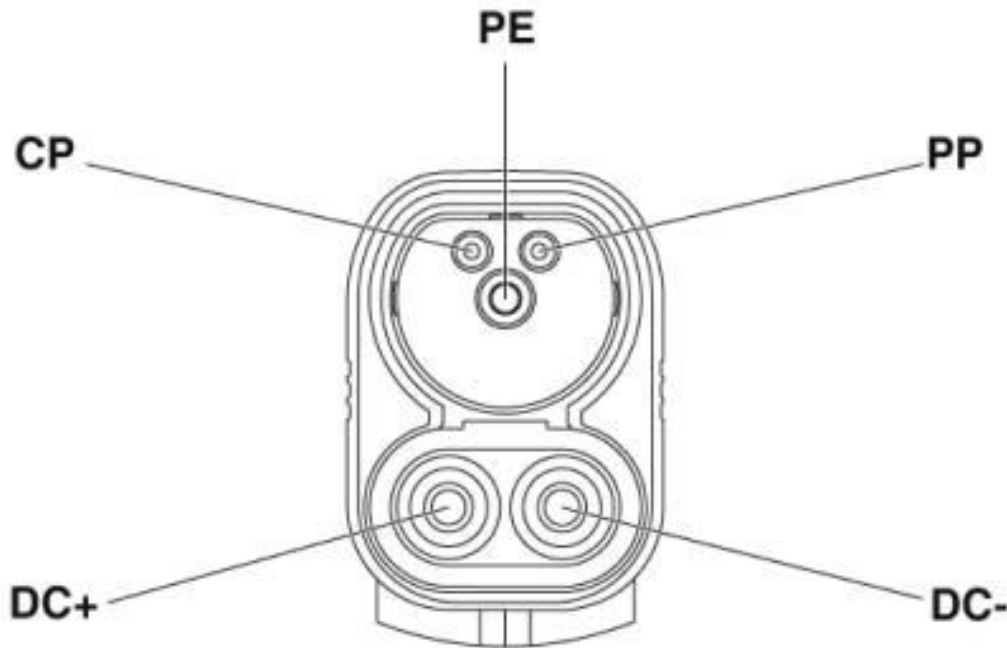
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(9). Insert back the CCS signal plug back firmly



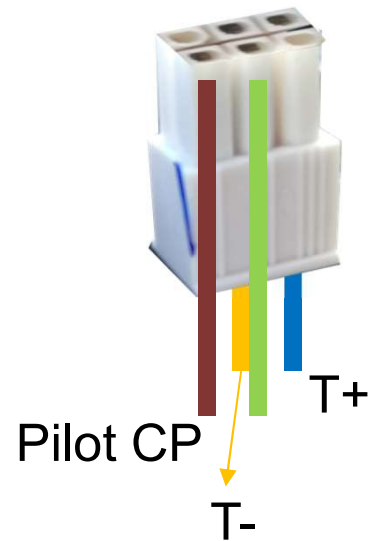
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(10). Measure Pin to Pin resistances from the head of CCS connector



Measurement pins	Reference resistance
CP to PE	0.352M ohm
DC+ to DC-	17.33M ohm
DC+ to PE	6M ohm
DC- to PE	10.4M ohm

Definition of CCS signal plug



Polit CP	0.75mm ²	BROWN	CP
Thermal Sensor (1)	0.75mm ²	ORANGE	T-
Thermal Sensor (2)	0.75mm ²	BLUE	T+

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