

Battery Electric Vehicle (BEV) - Diagnostic Trouble Code (DTC) C103412, C103413

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Valid For:

Model - VNR-E

Model Years - 2021 to Current

This condition may be caused by a failed resistor in the Combined Charging System(CCS). Please refer to the troubleshooting steps in the link provided [here](#).

NOTE: The CCS cable assemble is sensitive and needs to be handled with care.

Related links and attachments

[KC-2307 CCS_Diagnostics](#)



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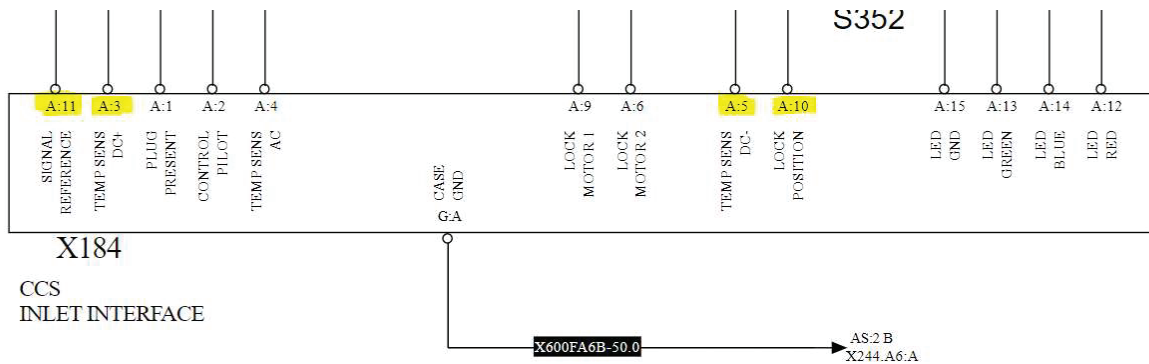


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1. Check resistance between pins on CCS connector X184



Reference	Ground	Expected Resistance
A:3	A:11	~1.08 Kohm
A:5	A:11	~1.08 Kohm
A:10	A:11	~10.8 Kohm
A:3	A:5	~2.17 Kohm (2x A:3 – A:11)

- Notes:
 - *Be careful when checking resistances to not spread the connector pins*
 - (A:3 - A:11) & (A:5 - A:11) should be very close to the same value
 - (A:3 – A:5) resistance should be double values above

2. Continuity Checks if resistances above are normal

- Check Pin retention
- Check for spread pins
- Verify circuit continuity from CCS to CCCM

CCS Pin	CCS Name	Wire Name	MPB Location	CCCM Pin	CCCM Name
A:11	GND	A251B3-0.8	MPB:25	B3	Analog Gnd
A:3	DC+	A251A3-0.8	MPB:24	A3	DC+ Sense
A:5	DC-	A251A4-0.8	MPB:18	A4	DC- Sense
A:10	Lock Pos	A251B4-0.8	MPB:17	B4	Lock Status
A:4	AC	A251A2-0.8	MPB:21	A2	AC Sense