

Diagnosing Charging Socket A/B or Left/Right Faults

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Taycan	As of 2020	Y1A, Y1B, Y1C	N/A	N/A

Revision History

Revision	Release Date	Changes
0	March 12, 2024	Original document

Condition

The customer complains of vehicle unable to charge from right side charge socket. The workshop finds fault codes including *P31E200 – Charging socket A, AC electrical system supply – short circuit*.

Technical Background

It is possible that either the left or right charging socket lid locking mechanism can stop sending feedback to the HV Onboard Charger (OBC). In this case, both charging socket lids can be opened because one is not sending a signal to lock the opposite side charge port. This loss of communication prevents charging on one of the charging sockets.

In Guided Fault Finding (GFF), the driver side (left) charging socket is referenced as socket A, and passenger side (right) as socket B. This information is available along with a diagram in the GFF information for Fault Code *P31CF00- Charging-socket lid A, locking detection, electrical fault*.

Service Information

GFF does not include information pointing to the charging socket lids for some of these faults. Until these are updated uniformly, check whether both lids are up at the same time. This signifies a fault in one of the charging socket switches.

There is a note in the GFF for *P31CF00* that the fault can be caused by a malfunction of the opposite charging socket lid. Before starting the troubleshooting, check whether the opposite charging socket lid can be opened. If the charging socket lid cannot be opened, a resistance test must be performed on the limit switch.

Warranty

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

APOS	Labor operation	I No.
55341902	Lid switching element removed and reinstalled	

PCSS encryption:

Location (FES5)	55340	Lid Switching Element
Damage type (SA4)	4011	Loose contact, contact fault

Search Items

Vehicle Won't Charge, Charging socket, Locking Detection, Electrical Fault, Charge port flap, P31CF00, P31E200, side A, side B

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