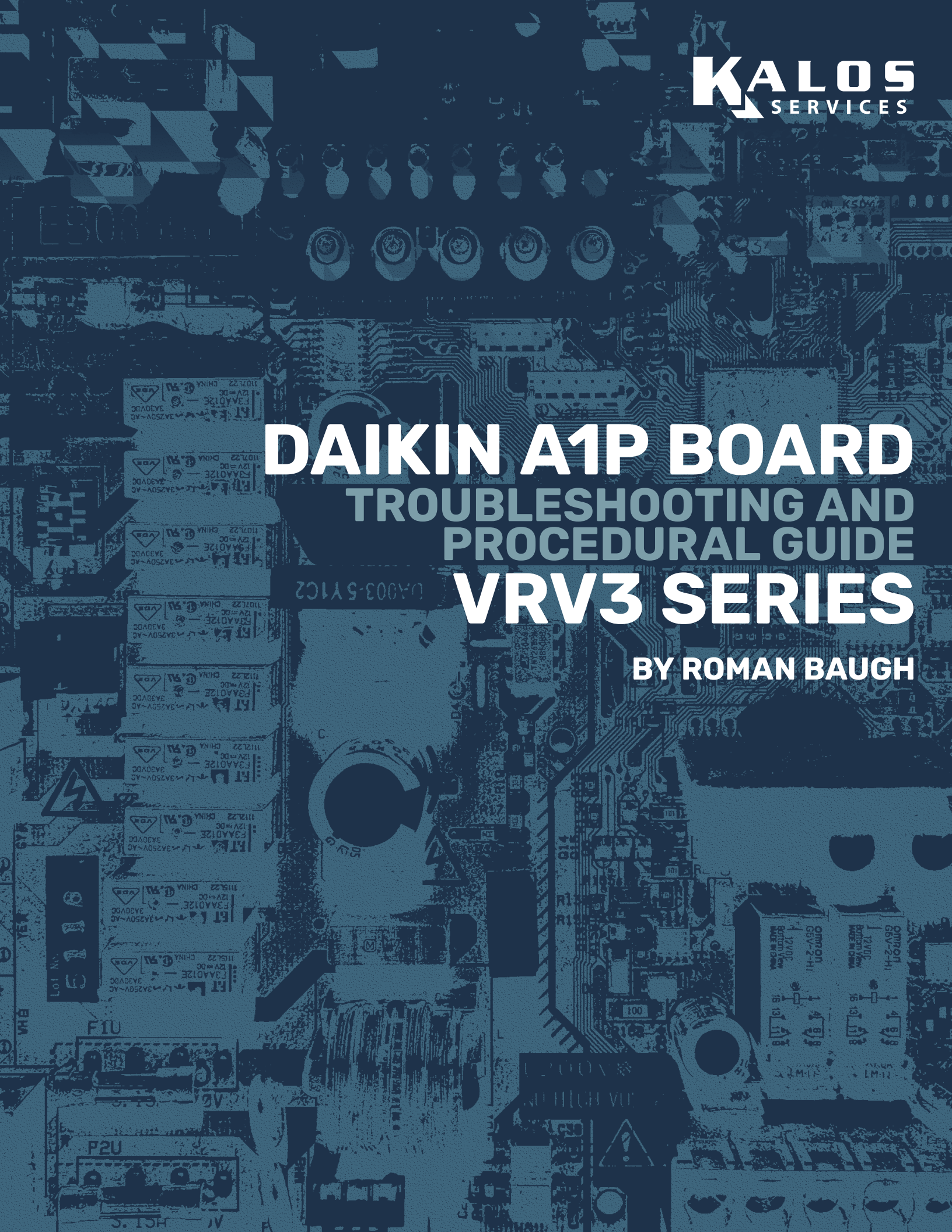
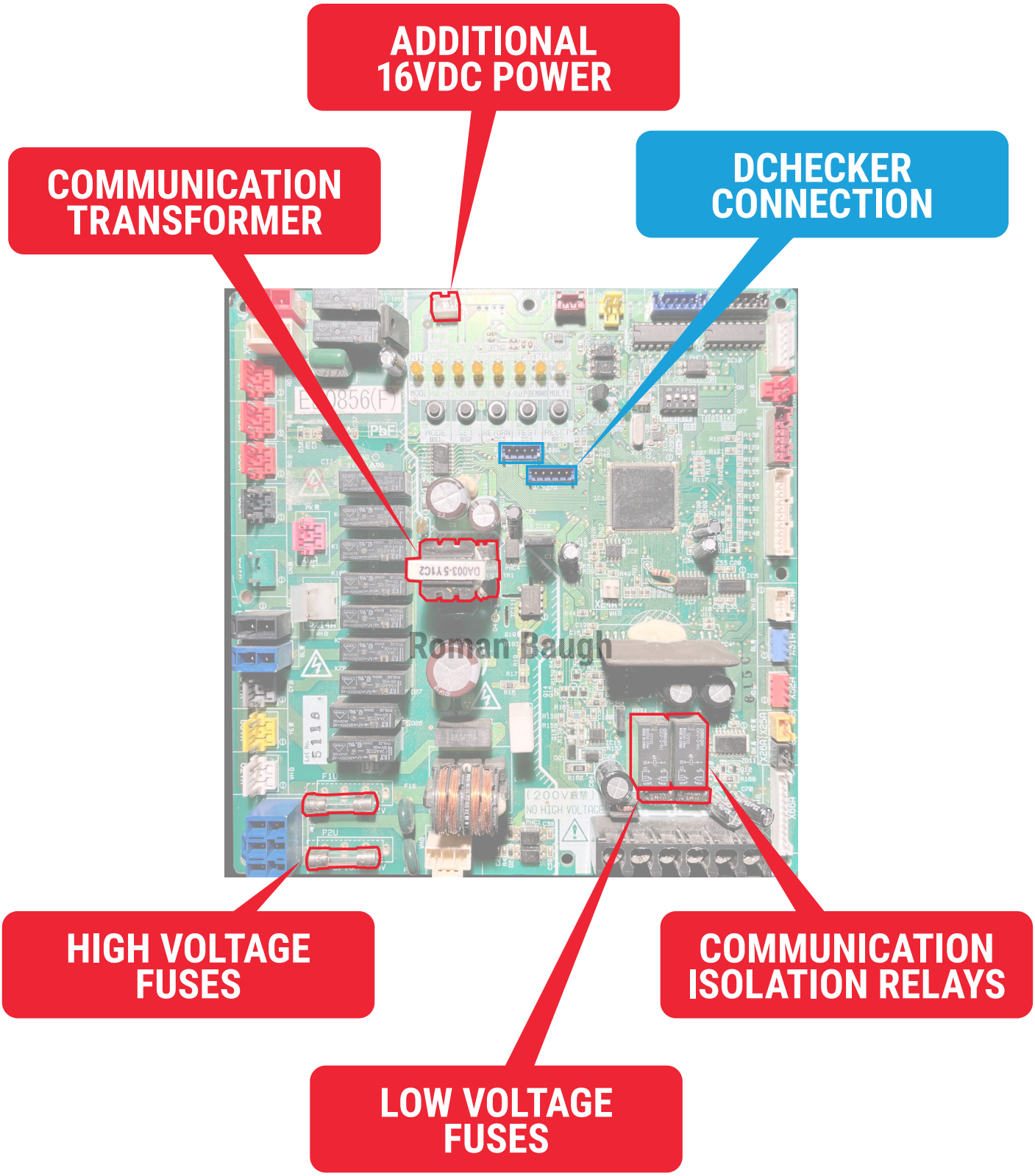
KALOS SERVICES

DAIKIN A1P BOARD
TROUBLESHOOTING AND PROCEDURAL GUIDE
VRV3 SERIES

BY ROMAN BAUGH



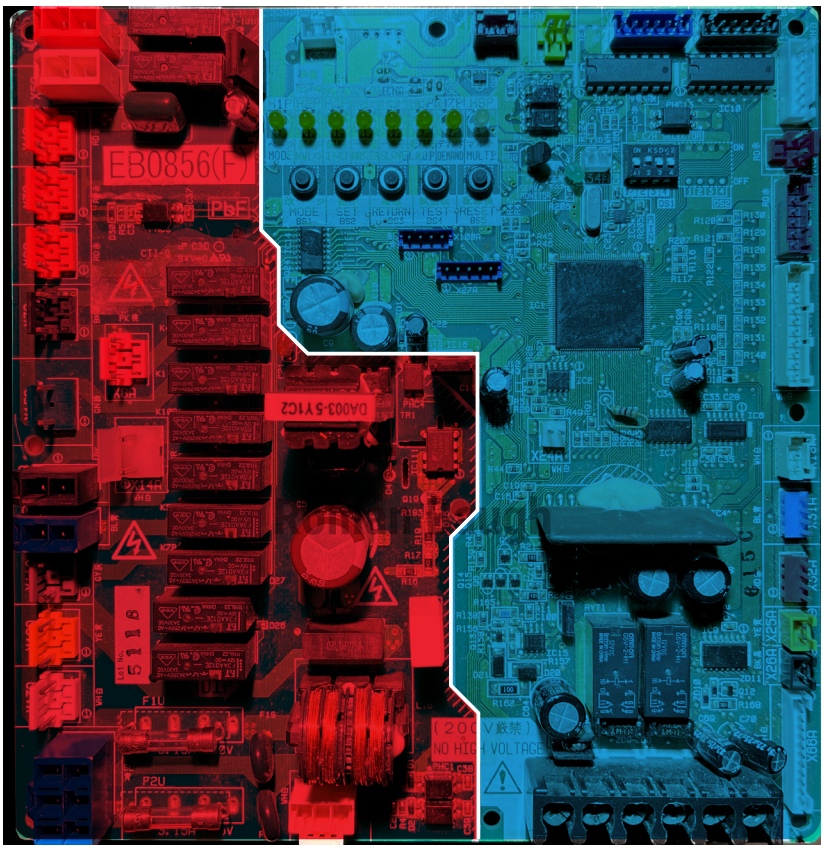
A1P BOARD ANATOMY AND OVERVIEW



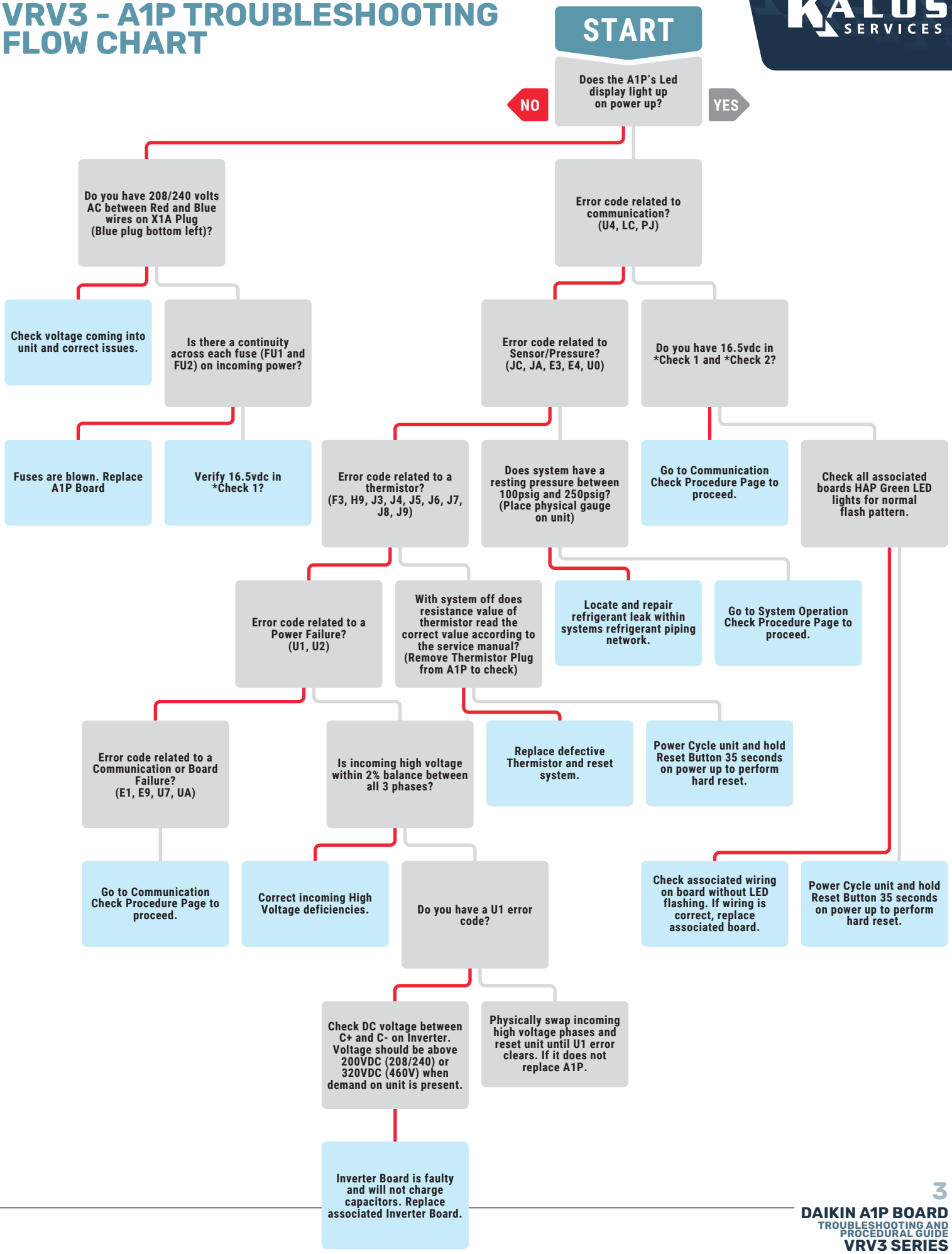
A1P VOLTAGE ANATOMY

HIGH VOLTAGE SIDE OF A1P

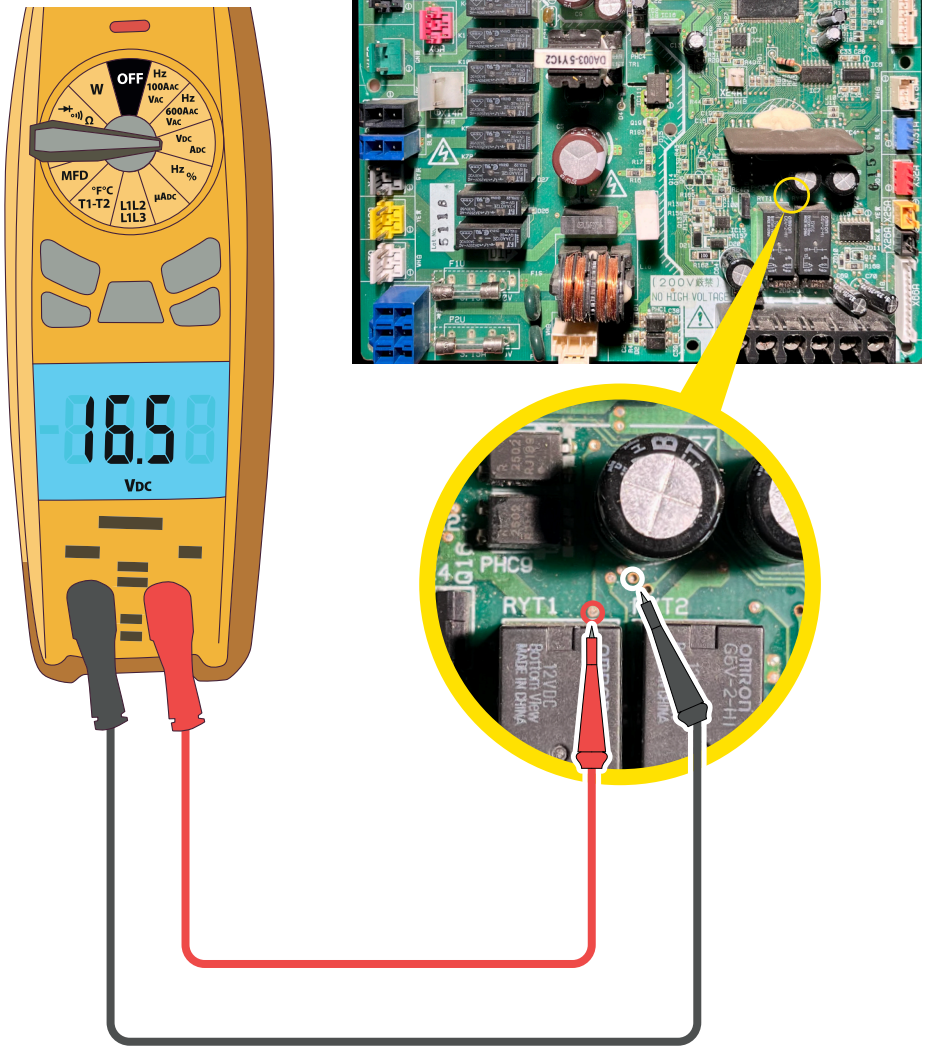
LOW VOLTAGE SIDE OF A1P



VRV3 - A1P TROUBLESHOOTING FLOW CHART

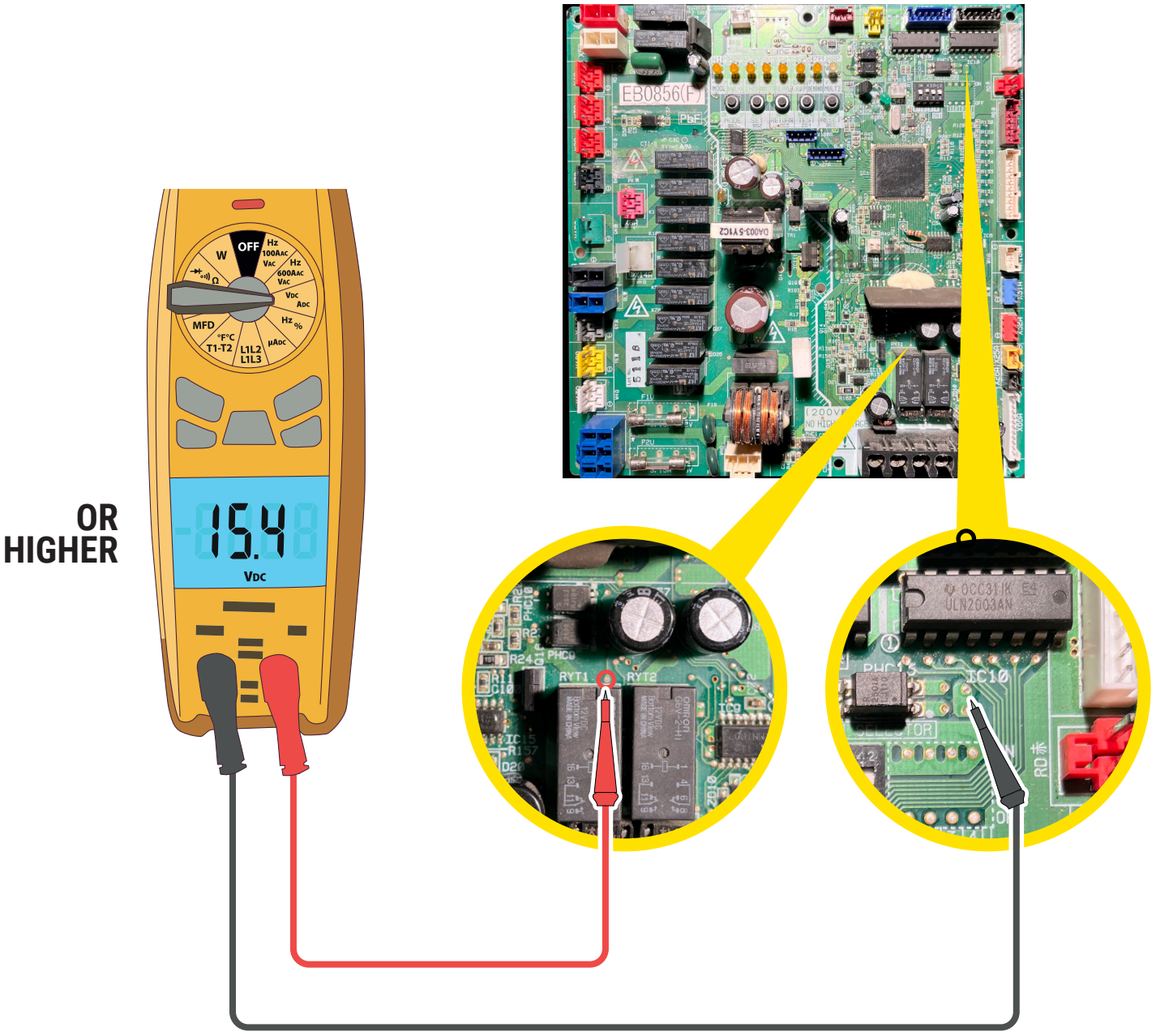


EVEN WHEN F1-F2 HAS NO VOLTAGE DUE TO A SHORT



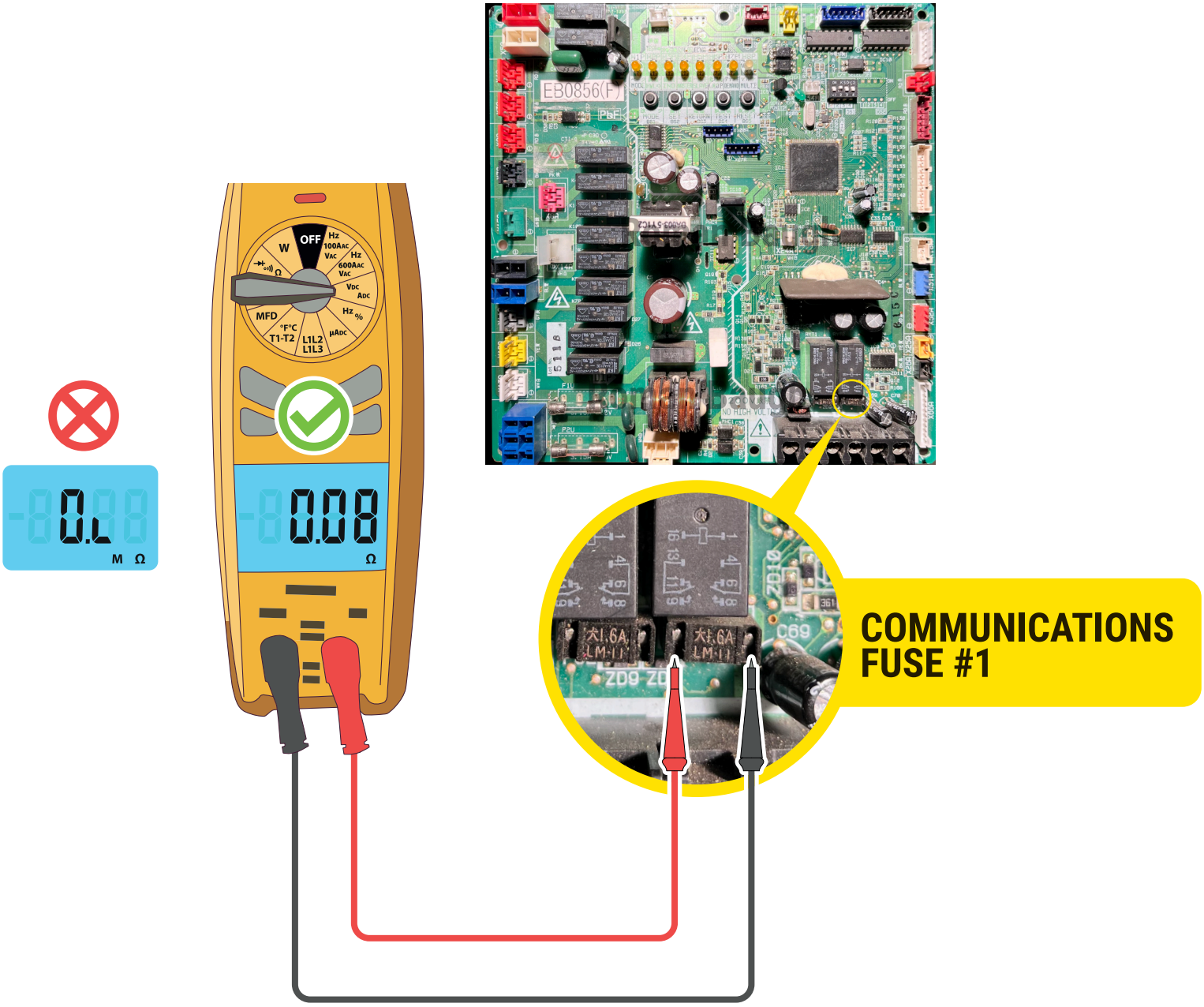
- This is to determine if you have a short on **F1-F2** coming into your unit to ground or between the wires themselves.
  If you do not have voltage on **F1-F2** at the screw terminals but do have voltage at this part of the board your wires need to be isolated and ohmed out. **Anything below 540 Ohms between F1 and F2 will cause this relay to open to protect the board.**

CHECK 2 PROCEDURE



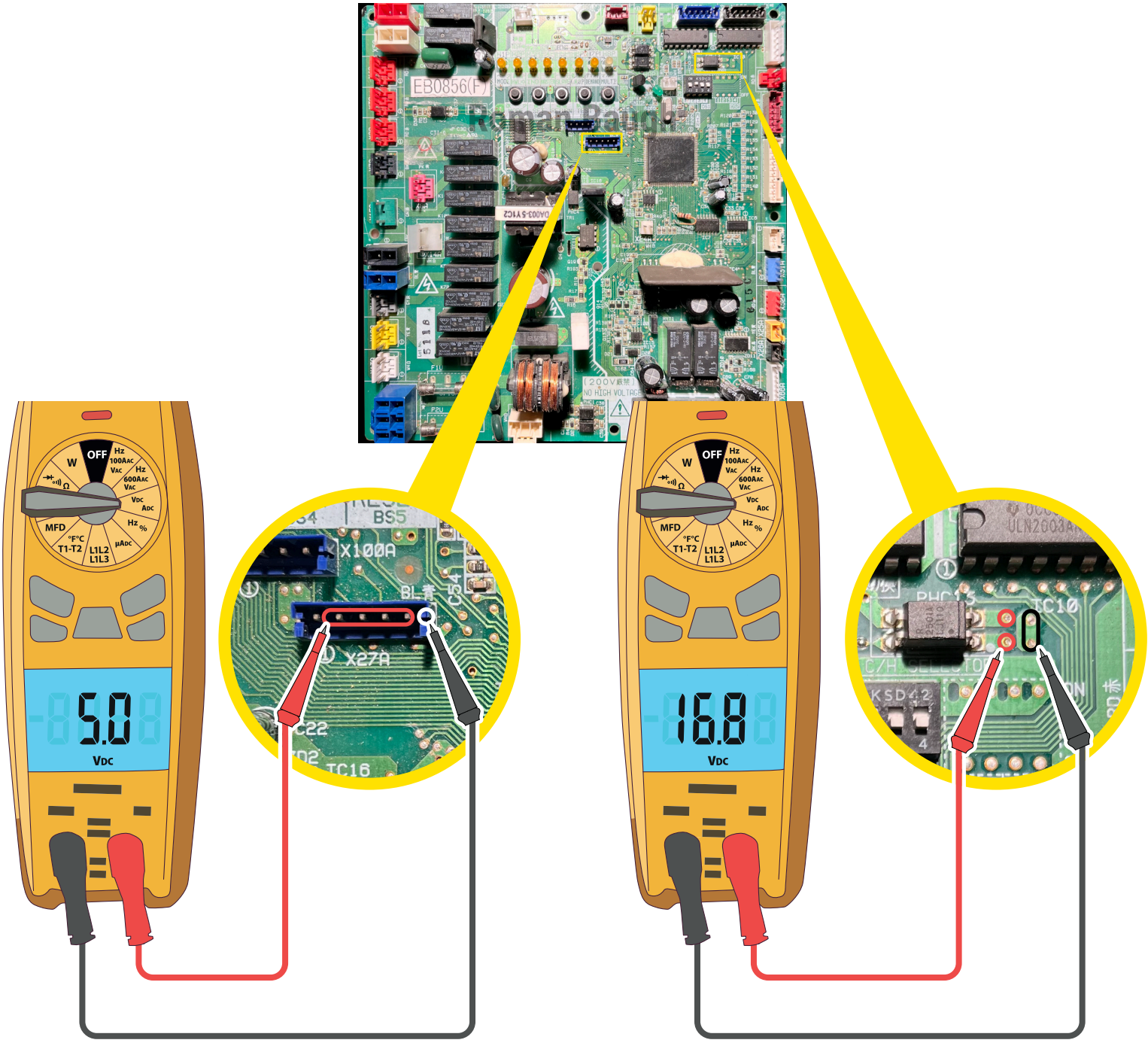
- **If *Check 1* does not have voltage** then this check procedure will allow you to check common at the source if for some reason the relay is faulty. **If you have voltage here but not at *Check 1*** then the A1P will need to be replaced. Further investigation will need to be done as these relays only fail from poor wiring practices where grounds or rub outs on the wire are present.

COMMUNICATION FUSE CHECK



- This procedure allows you to **check if the 1.6Amp fuse inline of both F1 and F2 pathways are blown.** This will fail if you have high voltage with a load on the wire connections or main raceway for F1-F2.

TRANSFORMER CHECK



■ **The A1P board is a dual voltage transformer** both creating the 16vdc needed to communicate and also 5vdc to power both pressure transducers, bluetooth checker and D-Checker tools. This 5vdc also is used with some accessories that can be added to the A1P board. If one of these are missing then the board should be replaced if the incoming supply high voltage is correct.