关于俄罗斯一拖四电路板分析

Analysis on questioned PCBs

**一事件背景 background：**

  客户反馈48故障，根据服务手册来看是电机的问题，但客户更换了电机，驱动板，风扇也没有阻碍，但是48错误一直都无法消除。Complaint from customer about 48 failure code, which should be caused by the motor if according to the service manual, but the customer changed the motor, driving PCB, and double confirmed the electric fan was not blocked, but the failure did not disappear.

客户机型：AMW4-28U4SAC model name

**二失效件分析 analysis on questioned PCBs：**

客户返回两个室外主控板，分析如下：received two PCBs from the customer

第一块：the first one

通过收取快递公司（顺丰通过塑料袋包装），开箱时无水。

外观查看：该机在电路板三个系统的电路部分被水侵蚀（铜锈）。

After receiving the sample from the express company, the cartons is dry, but we found three connectors are rusty.

通电测试： test



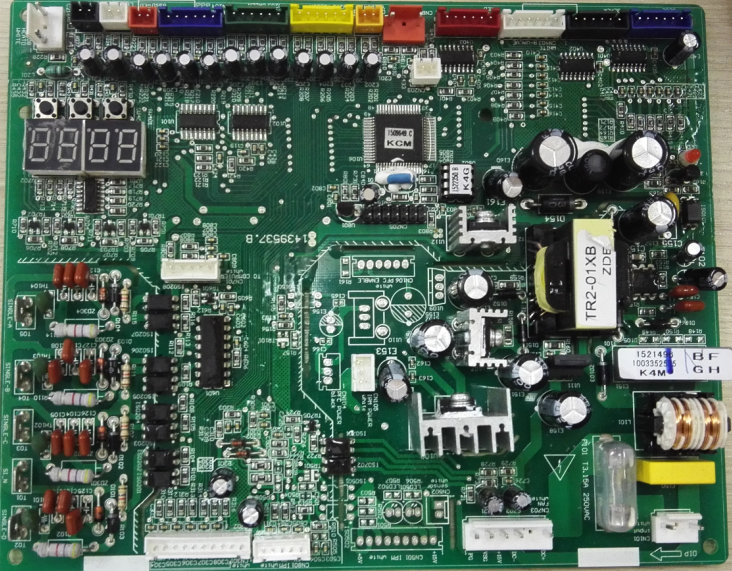
通过上电看：其中A系统正常启动，B\C\D系统不能正常工作。但A系统正常工作时，风机正常运转，无故障代码报出。

System A is running normally, System B/C/D can not work (rusty connector)

第二块：the second one

外观查看: 电路板外观无异常情况。 Appearance check, no question

通电测试：test



机器正常运转，无故障代码报出。The sample machine is running normally, without failure

但若将电机插头拔掉后，故障代码可以拔出。But if we draw out the motor connector, Error 48 is out.

通过以上验证结论：两块电路板后，与实体机验证无故障单代码48故障报出。但对电机插接线拔出后，能正常显示48故障代码。

After all above tests, when all connection is reliable, no failure code, but if we draw out the motor connector, Error 48 is out.

建议：suggest

客户排查电机插头是否差错位置或未插牢固 Pls ask the customer check if the outdoor motor connector is reliable or at a wrong position.