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SMT-C1(B) Controller Inspection 2025

SUMAKE

Introduction

Regarding the transducer screwdriver, it is powered by the built-in power supply of the SMT-C1 controller, which delivers DC 40V to the screwdriver through a connection cable. Inside the screwdriver, a step-down circuit on the control PCB converts the voltage to DC 5V, supplying power to the control board, MCU, and other IC components. Therefore, in the event of a malfunction, the first step should be to check the circuit voltage status on the PCB.



DC 40V



Screwdriver Control PCB (voltage step-down circuit)

The controller has a built-in power supply

Inspection steps

Check Fuse on AC & DC side

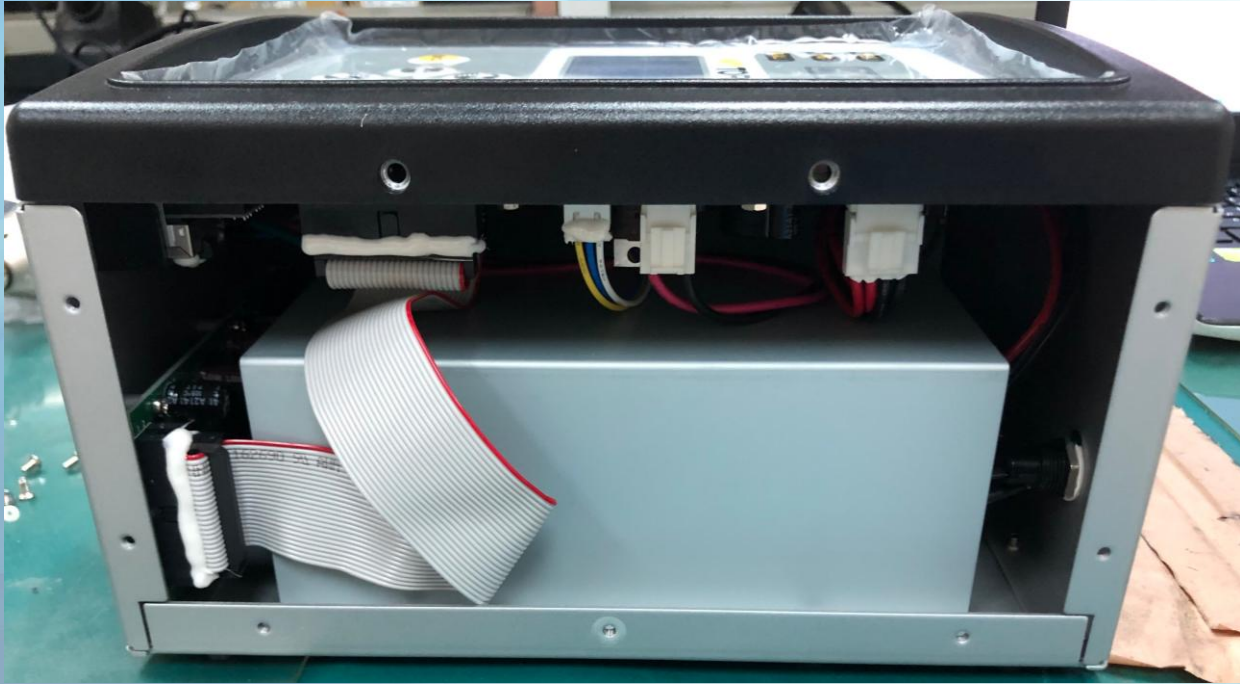
The fuse should be conducting.



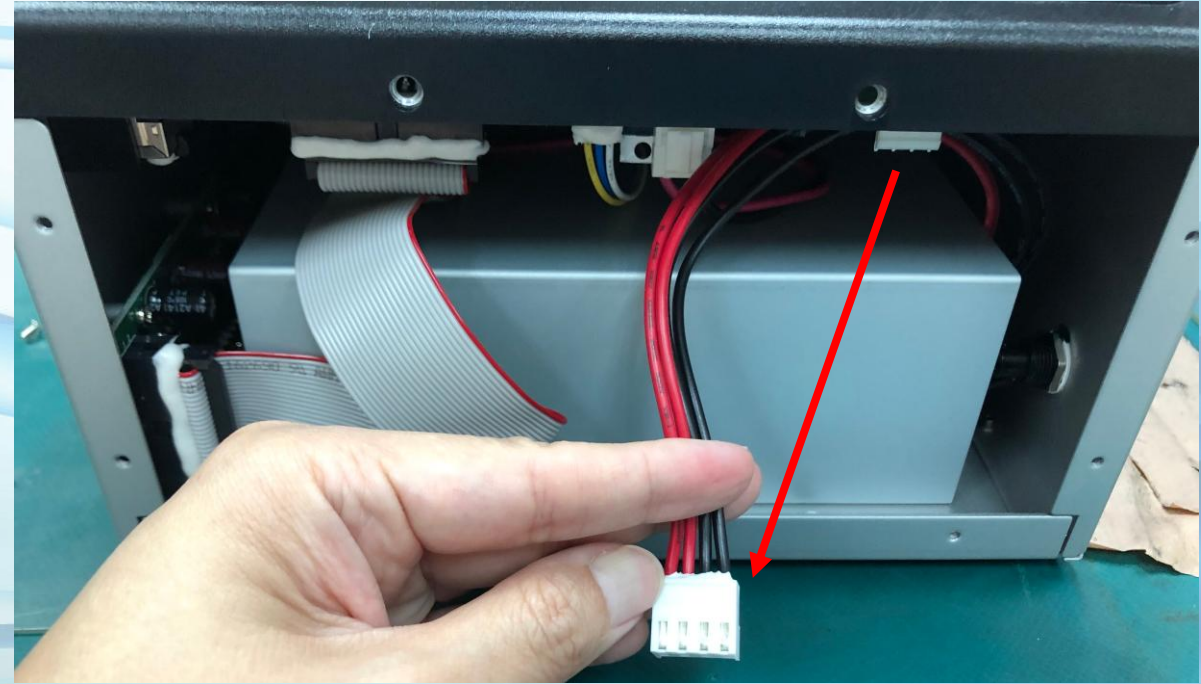
Inspection steps

Power Supply

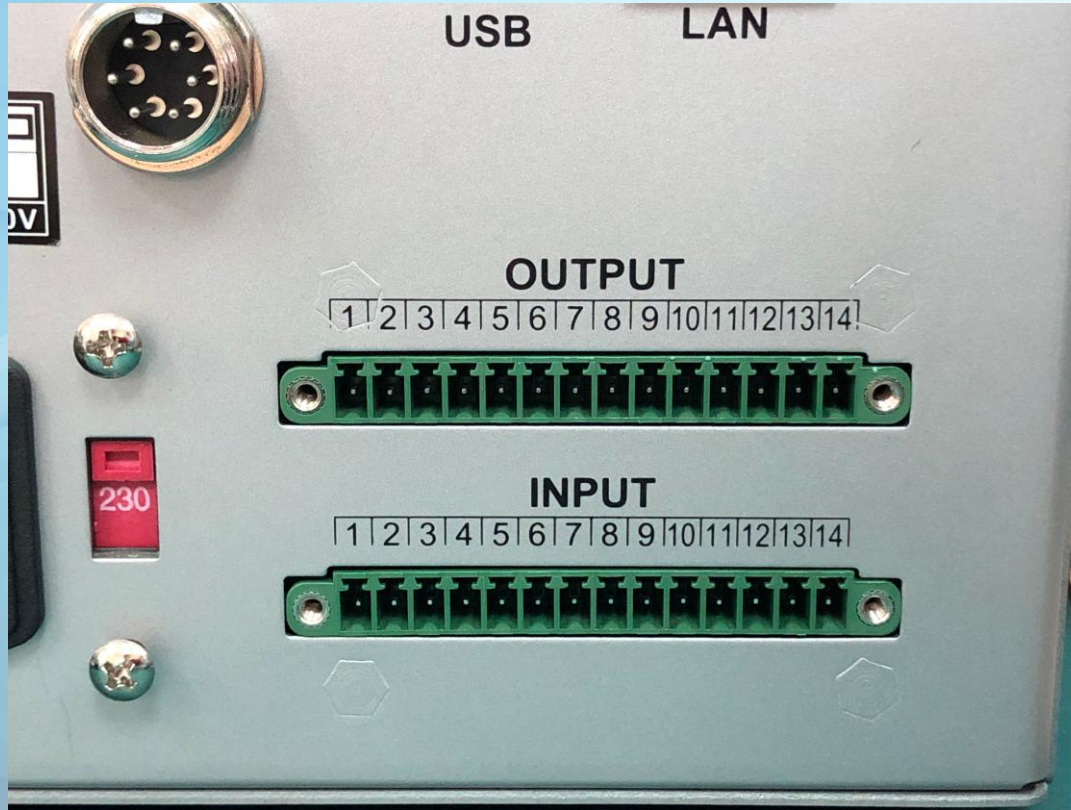
- Open the side



- Use multimeter to check the voltage; it should be **40V**



Inspection steps I/O PCB



- **Output CN13 & CN14**
Use a multimeter to check the voltage; it should be **24V**.
- **Input CN1 & CN2**
Input CN3 & CN4
Input CN5 & CN6
Input CN7 & CN8
Input CN9 & CN10
Input CN11 & CN12
Input CN13 & CN14
Use multimeter to check the voltage; it should be **5V**.