Instructions to replace M12 Connector O-ring for Analog Input and Loadcell Device

1. Devices to be applied:

Item code	Description	Remarks
WSPLR-AI	LoRaWAN Precision Analog Input	Risk of water ingress at the bottom M12 connectors (5 connectors) due to the thin gasket (attached with M12 connector cover). Suggest to remove this thin gasket, and replace by the NBR O-ring. **Note:** the device with thick gasket (attached with M12 connector cover) still meet the IP67 rating. Need not to replace it by O-ring.
WSPLR-LC	LoRaWAN Loadcell Input	

> ℹ **Note: The devices are with Thick-flat gasket need not to replace the O-ring.**

2. Instructions to replace thin-gasket by O-ring:

Step 1: Remove the cover of device

Step 2: Remove the plastic cover at the connectors area, so that you can access the connectors to turn the nuts.

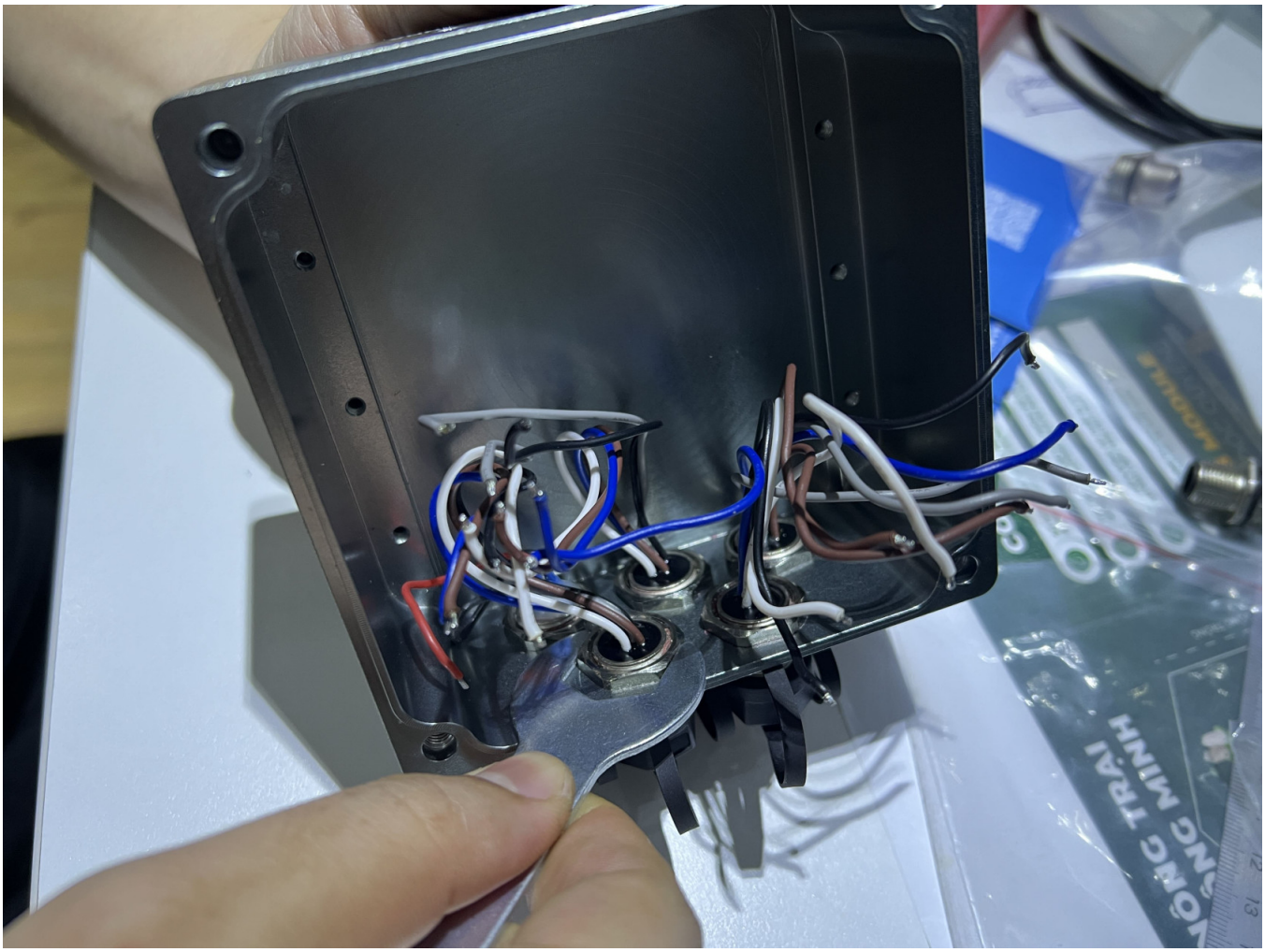
Step 3: If needed, remove the cover of electronic board so that you may have more space to work.

> ⚠ **NOTE: please protect the circuit from dust, metallic dust, water, high humid vapor...**

Step 4: Re-organize the cable, so that you can access the nut of M12 connector easily

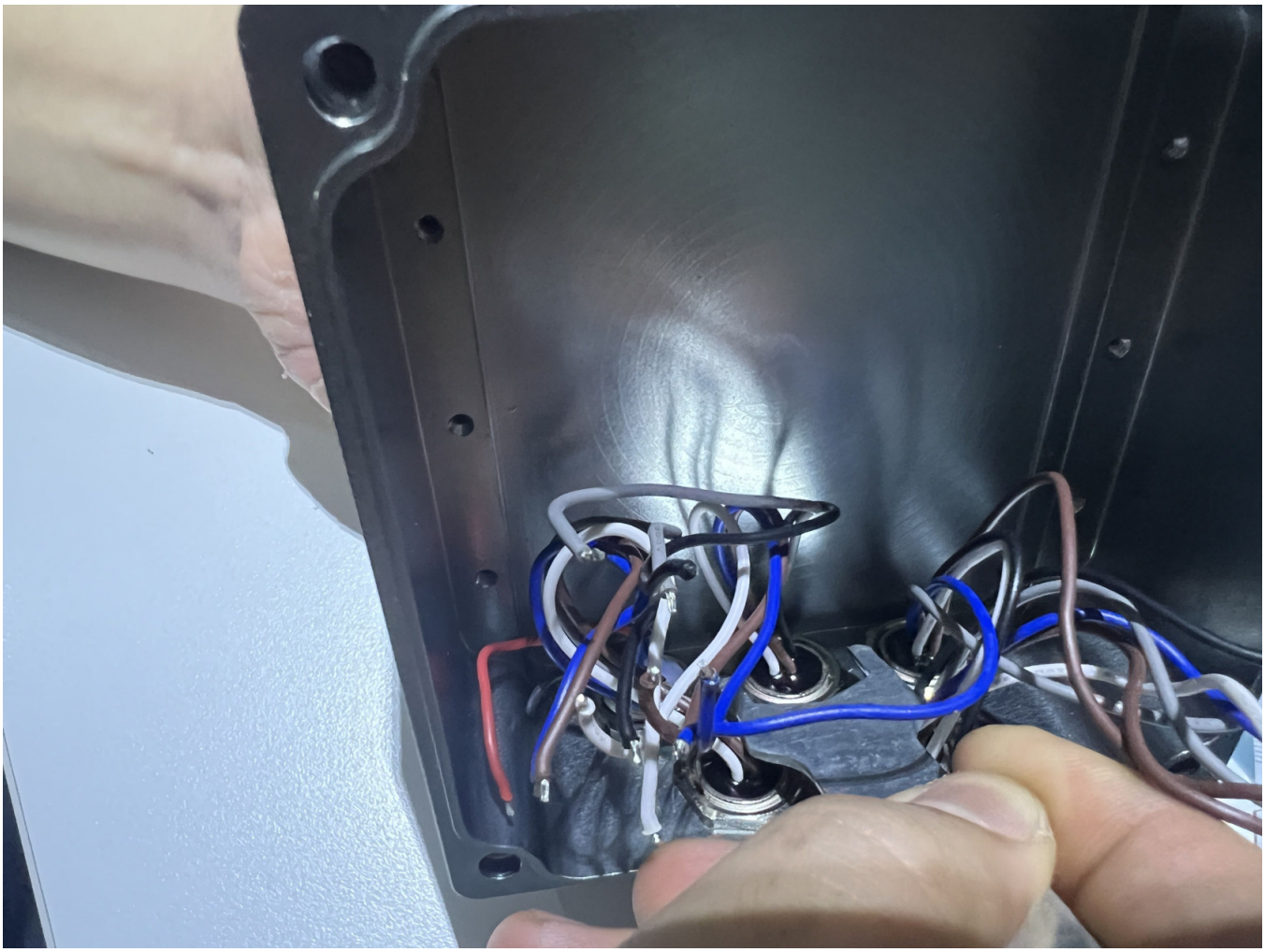
Step 5: Using the large wrench (supplied by Daviteq) to turn the nut of outside connectors (2 pcs)

- The nut was locked by thread-locking glue (red color). It is quite hard to turn it out.
- After turn out the 02 nuts of outside connectors, please go to next step



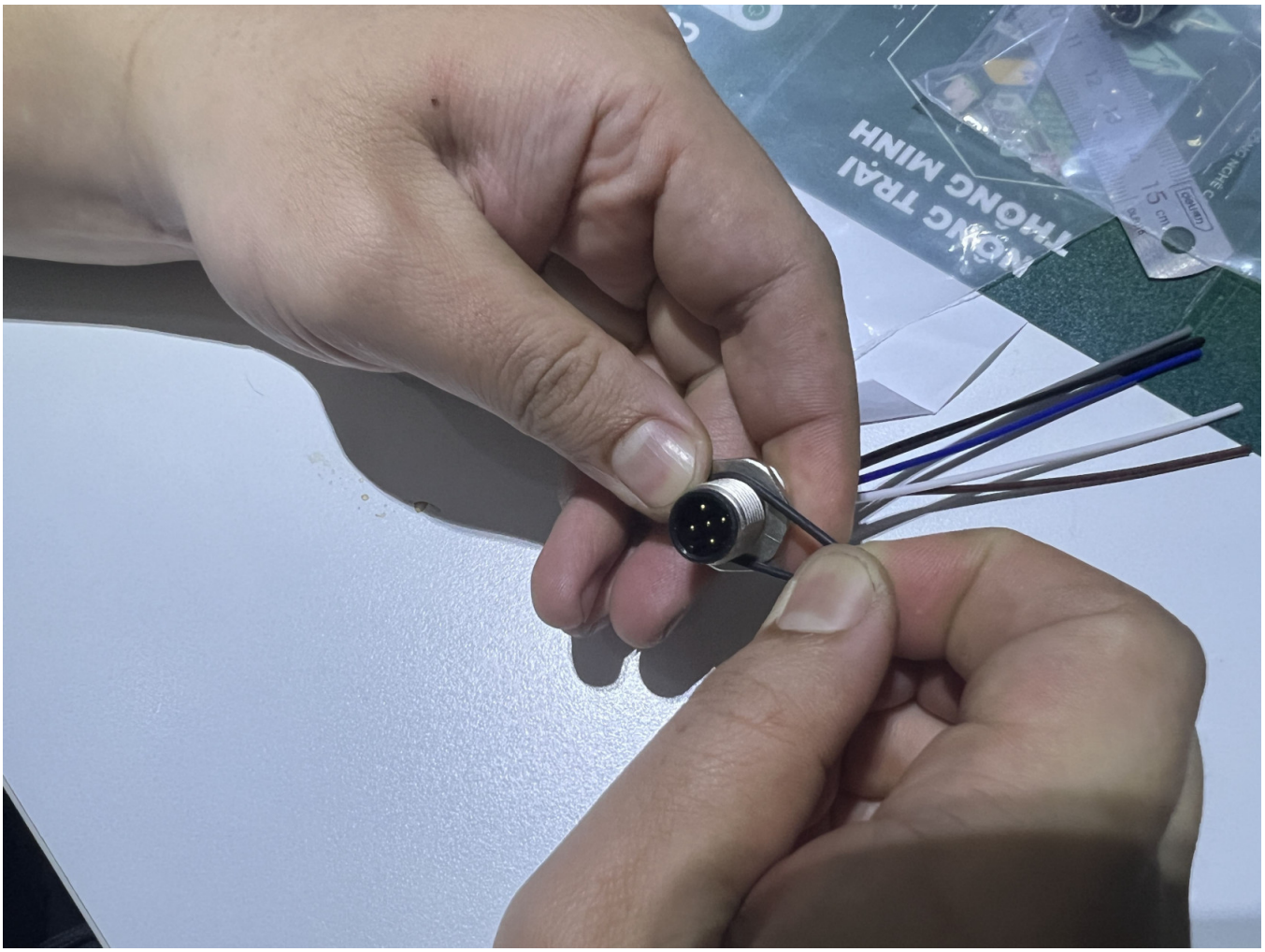
Step 6: Move the 02 outside connectors a bit further out, so that you may have more clear space to access the nuts of 3 x M12 connectors inside.

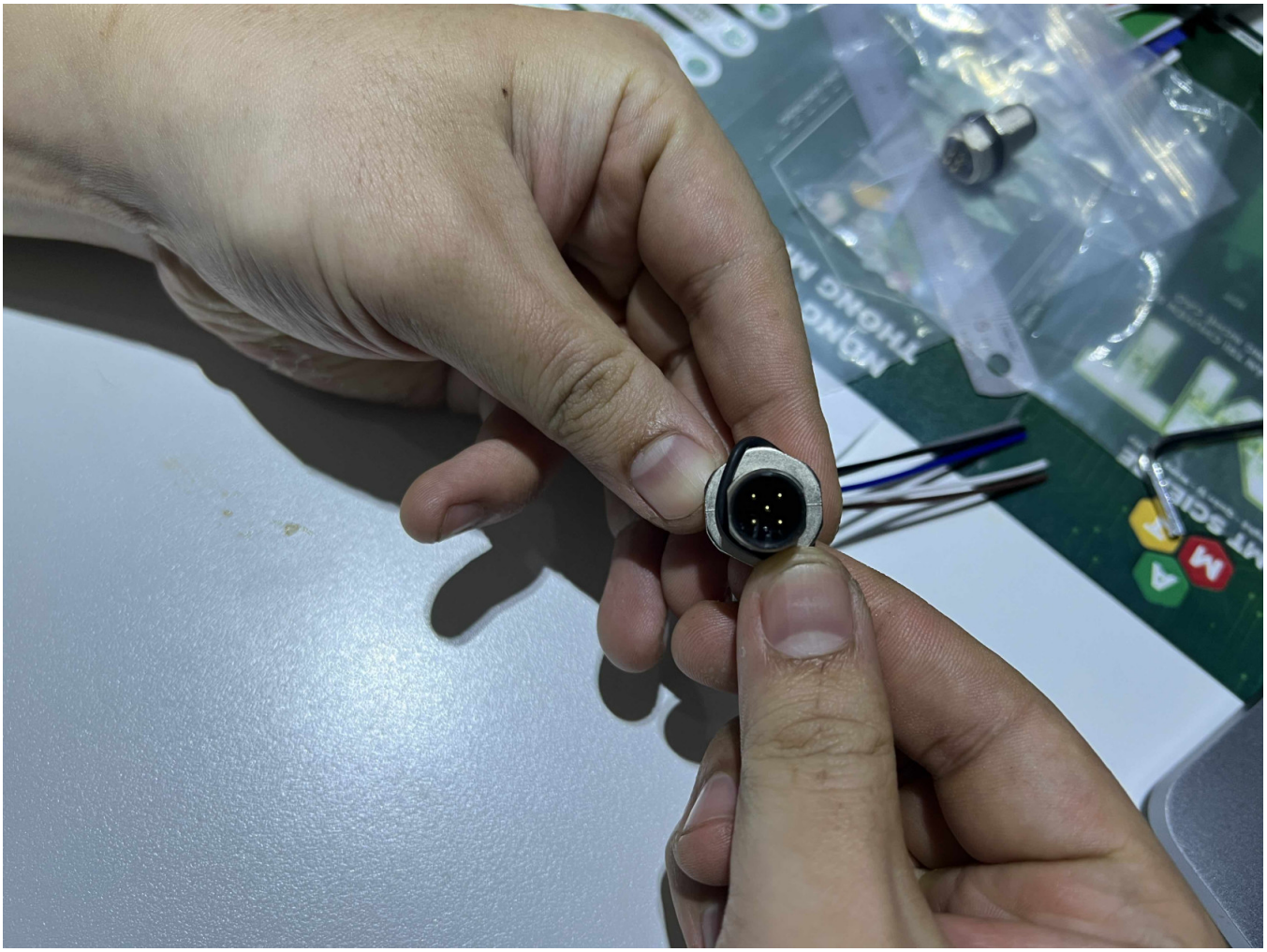
Step 7: Using small wrench (there are 2 types, please select the one you can handle), to turn the 03 nuts inside



Step 8: Remove the thin-gasket (attached with connector cover), and insert the new O-ring from the front side of connector. Repeat this step for 03 inside connectors.









Step 9: Re-assemble the 03 inside M12 connectors to housing and lock them tightly with nut.

Step 10: Repeat step 8 and step 9 for 02 outside M12 connectors then re-assemble the connectors to the housing.

> **Note: The M12 connector covers can be placed again on the connector without the thin flat cable**

END.

Revision #1
Created Tue, May 20, 2025 2:42 AM by Lộc Vĩnh Nguyễn
Updated Tue, May 20, 2025 3:14 AM by Lộc Vĩnh Nguyễn