

4K cooler issue at X-end

X-end

- 2018-08-03
- We found that the compressor of 4K cryocooler was stopped. (Ref.1 and Ref.2)
- Error message : [DB-25 Conf. 1 ERR]
- According to the operating manual (F-70H Helium Compressors Sumitomo) , this error came from the DB-25 connector.

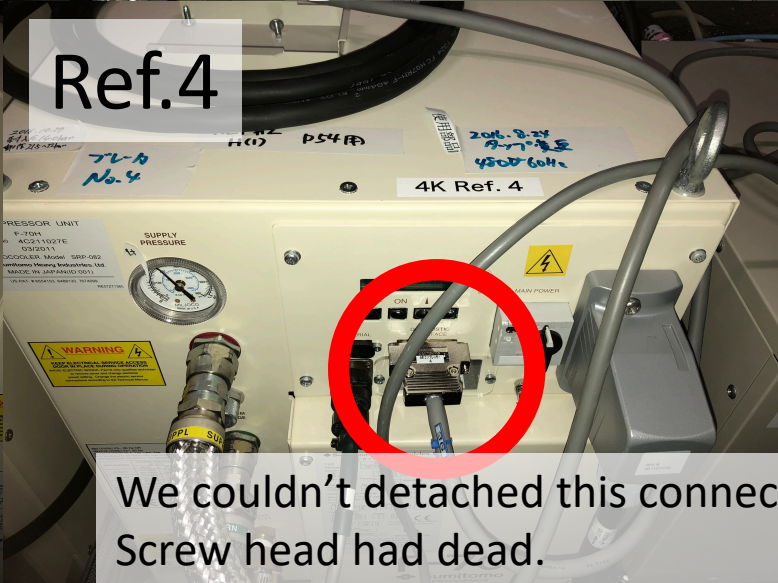
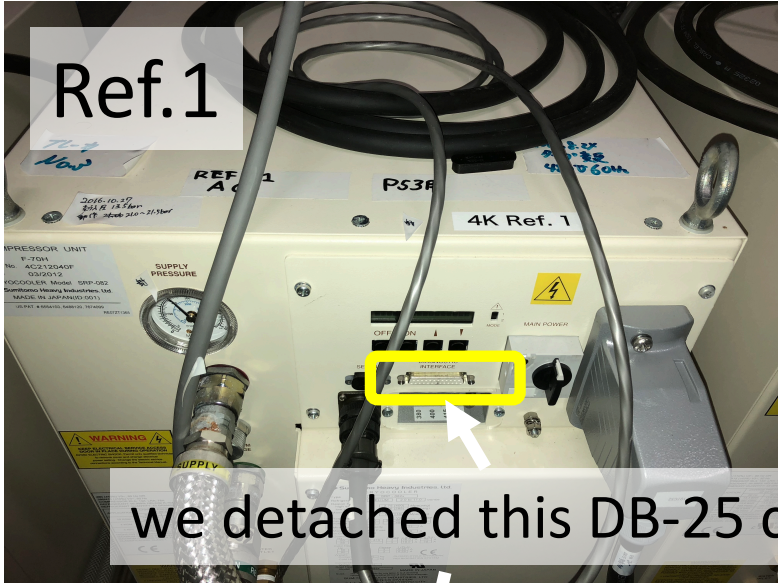
http://lmu.web.psi.ch/docu/manuals/bulk_manuals/OxfordInstruments/39370/F-70_Operating_Manual.pdf

- Therefore we removed this DB-25 connector from front panel. And we pushed the ▲ ▼ button of the touch panel at same timing for reset the display..
- Then these cryo-cooler started to work.

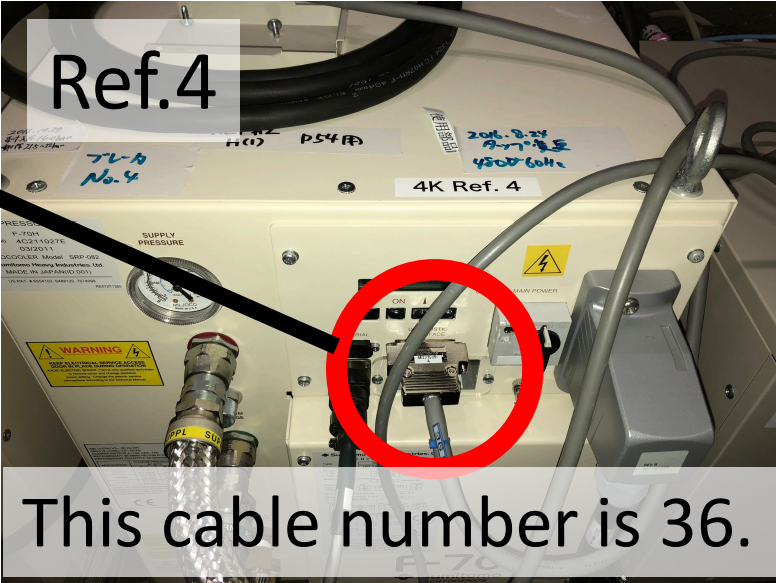
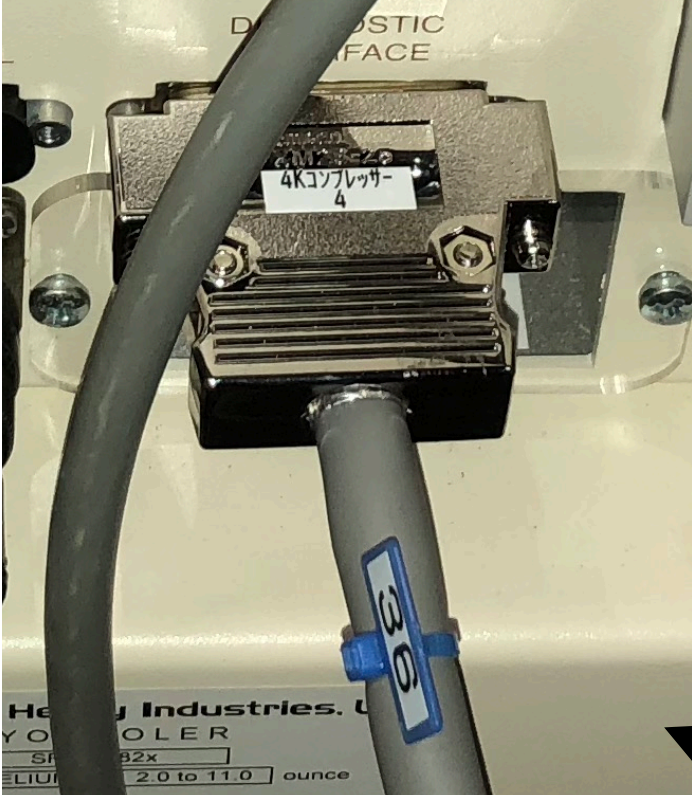
Cause

- Maybe Interlock issue, because Tomaru-sensei told that X-end interlock broken.

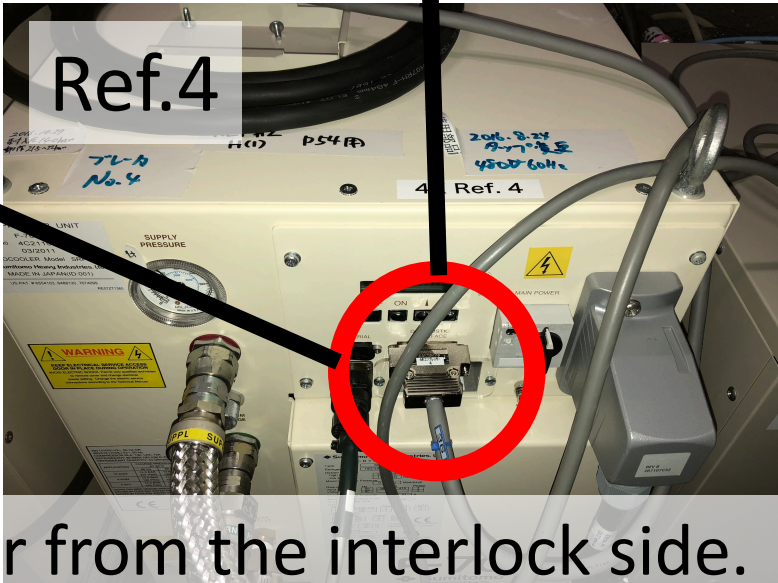
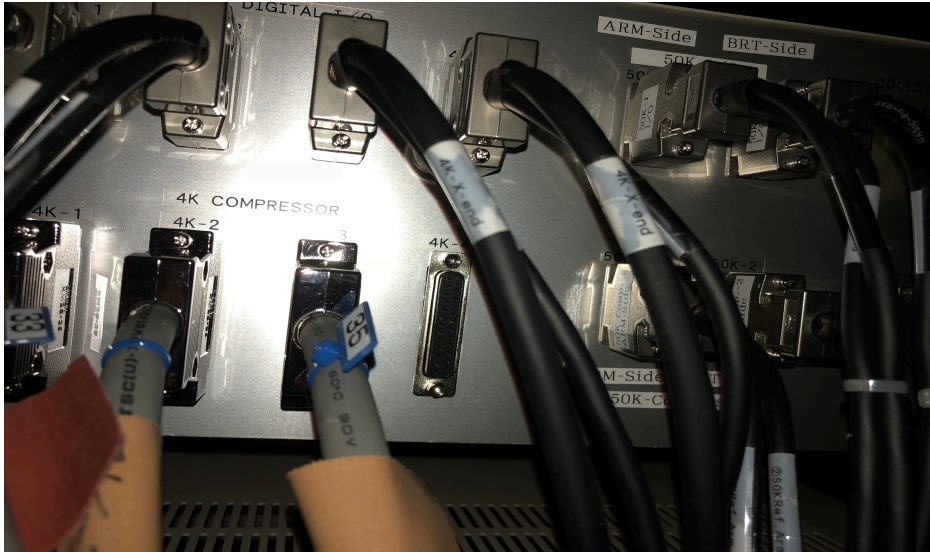
Picture for log



Picture for log

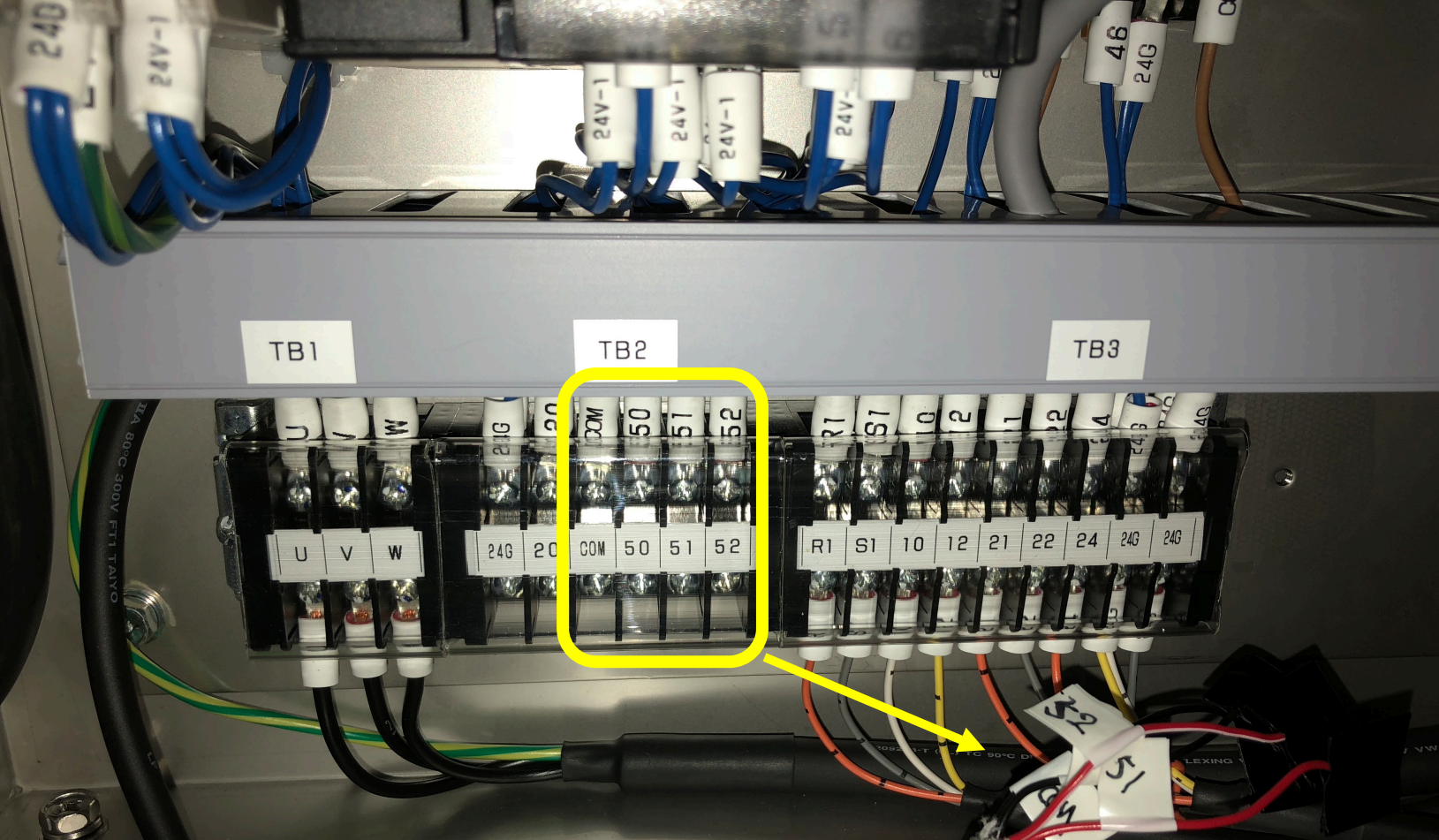


Picture for log



We detached this connector from the interlock side.

Picture for log



Just in case, we detached the interlock cable of the cooling water circulation system.