

T1250A-04

Modification Recommended Service Note

Supersedes:
NONE

T1250A Smart RF Switching Unit

Serial Numbers: E125000001 / E125000030
ES53210101 / ES53210103
EST12500013 / EST12500028
MY53301001 / MY54050143

The Problem

Power on issues (unit unable to power on, or many attempts to power on needed to switch on the unit) and sudden switch off issues were found on this model.

Internal control cables, and DC power cables, supplier changed, due to this quality issue.

ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	8.0 Hours		
LOCATION	<input type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input checked="" type="checkbox"/> SERVICE CENTER		<input checked="" type="checkbox"/> SEE TEXT		<input checked="" type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS				
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	Dec/31/2018		
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	PL13		
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	AJGG		

ADDITIONAL INFORMATION:

Service Note to describe the vendor change on DC power and control cables due to bad quality issues. This is supported at Factory site: AX63.

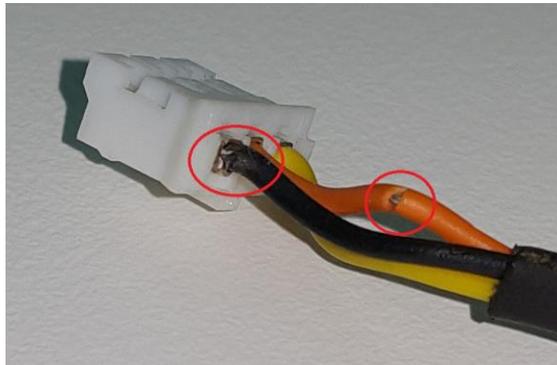
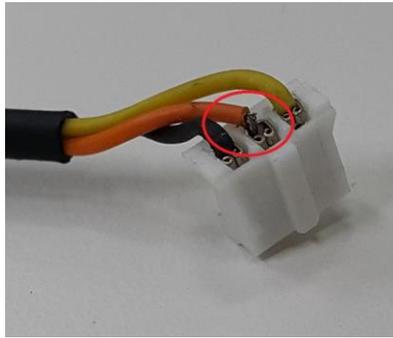
Parts Required:

P/N	Description	Qty.
T1250-21003	Cable Distribution Power positive	4
T1250-21004	Cable Distribution Power negative	4
T1250-21001	Ground Board Distribution	1
T1250-21005	Power RFSC and RFSD Cable	2
T1250-21006	Power RFSP Cable	1
T1000-61004	Grounding Cable for Top and Bottom Cover	2
T1250-21002	Power PC cable	1
T1250-61004	Power Supply-LCD Cable	1
T1250-61057	Power BPCB Cable	1
T1250-61014	Control Primary cable	1
T1000-61010	Cable DC Sense and Power positive	2
T1000-61009	Cable DC Sense and Power negative	2
T1000-61001	Control USB cable	1
T1000-61006	Pson PC Cable	1
T1250-61015	PC cable, RS485	1
T1250-61013	Control LCD Cable	1
T1000-61002	PC Switch Cable	1
T1000-61003	Frontal led cable	1
T1250-61016	PC-SC Cable, RS485	1
T1250-61010	Power YIG Cable	2
T1250-61017	Sensor Temperature YIG cable	2
T1250-61012	Control temperature YIG 2	1
T1250-61011	Control temperature YIG Cable	1

Situation:

Failure analysis revealed a quality issue with the original control cables and DC power cables, as shown in the pictures below:

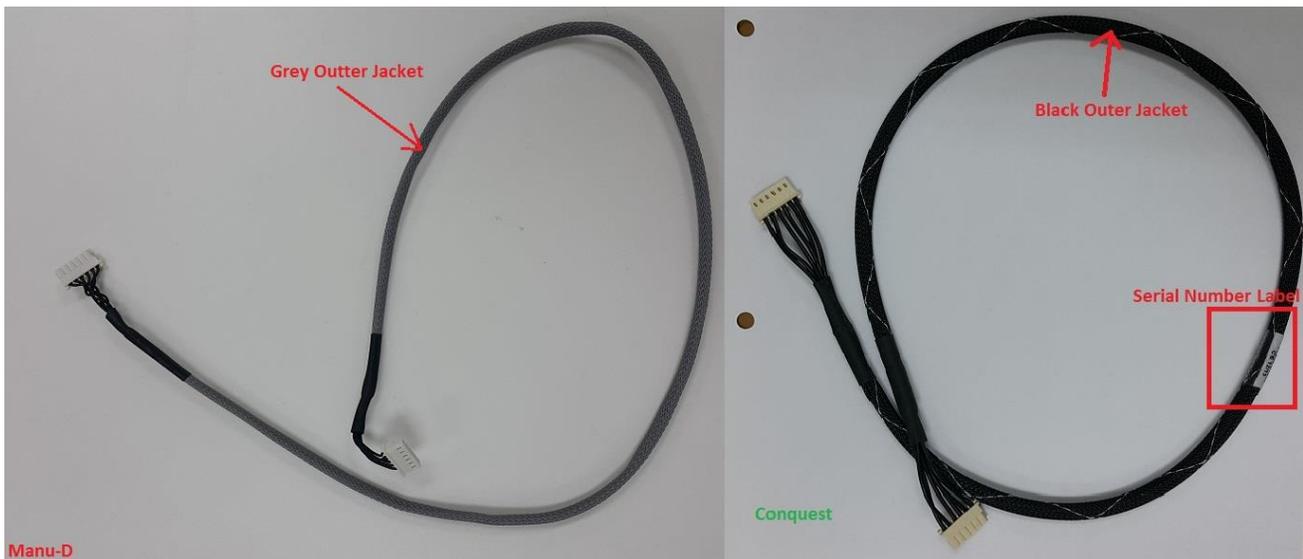




Cables crimping poor quality was the identified root cause.

Solution/Action:

Cable vendor was changed to ensure cables meet the quality standards (part numbers remained the same). The following picture shows an example of original cable, and new cable:



Original Manu-D cable vs new Conquest cable

- New units: this cable vendor change was implemented in Production starting with serial number MY54050143.

- Installed base: any T1250A returned to Factory for service (this model is supported Return to Factory) since October 2015 has been reworked to replace the original control and DC cables with new vendor cables.

At current date, the following T1250A serial numbers have been reworked through Return to Factory repair services:

Serial#
ES53210103
MY54050118
MY54050151
E1250000004
MY54050127
MY54050132
MY53301001
MY54050116
MY54050156

DC cables and control cables are installed close to the bottom plate, so changing them requires a deep disassembly of the unit. Access from the bottom is not possible due to the existing metal sheet. This operation involves manipulating the RF connections, and therefore, a factory calibration is needed, which is only supported at Factory.



View of control cables

In summary, DC and control cables replacement is **supported at Factory (AX63-Penang)** site, although an initial inspection can be done in the Field.

Revision History:

Date	Service Note Revision	Author	Reason for Change
15 Apr 2016	01	Tony Guerrero	As Published