Information Only
Service Note

Supersedes:
E5063A-09A

E5063A ENA Series Network Analyzer

Serial Numbers: ALL

Manufacturing ID Number: N/A

The Situation – New Touch Panel & Touch Panel Controller Available with LF Updates and Digital Interface Option

Parts Required:
P/N   Description   Qty.

Refer Solution in Table 1

ADMINISTRATIVE INFORMATION

X Calibration Required	PRODUCT LINE: WN
[[]] Calibration NOT Required	AUTHOR: BS

ADDITIONAL INFORMATION: E5063A New Touch Panel & Touch Panel Controller Available with LF Updates and Digital Interface Option

Situation:

Keysight decided to change new Dawar Touch Panel & Touch Panel Controller (TPC) together with the new Firmware on the 2nd Generation of E5063A. The 3rd Generation of E5063A is introduced to update the hardware and the digital interfaces (GPIB & 24-bit Digital I/O) of E5063A will become optional to stay competitive in pricing. Refer to E5063AU-721 and E5063AU-731 upgrade guide for the part number details for GPIB and 24-bit I/O.

Solution/Action:

All the parts in all the generation will still being supplied. Refer to "The connection for Gunze & Dawar Touch Panel to Controller" for the connection of the touch panel to touch panel controller board.

*Note that the parts listed does not include small parts such as wire/cable, screw and angel. Refer to E5063A Replacement PartList (E5063A Support Information Portal) for the complete replaceable part list.

The compatibility of the parts for each generation is shown as below:

Table 1 Parts Compatibility for 1st, 2nd and 3rd Generation

E5063A	1st Gen	2nd Gen	3rd Gen
Chassis Assembly & Rear Panel	Refer to Service Note **E5063A-03x** on the Part Number Change		
Outer Cover Assembly	E5061-60007		E5063-60002
Handle Assembly	E5061-60003		E5061-60013
Front Panel Assembly	E5063-64901 or E5063-64902		E5063-64911
Touch Panel Controller	Gunze 0960-2972	Dawar 0960-3063	Gunze 0960-2972
LCD & Touch Panel Assembly	E5061-60112	E5061-60113	E5061-60112
Touch Panel	2090-0981	2090-1114	2090-0981
LCD	2090-1036		
CPU	Kontron-COMe (Tested) E5061-62180		Argo (Tested) + CPU-FAN E5063-65053
SSD	E5063-82201	E5063-82202	E5063-82211
DSP	E5061-62051		E5061-66671
Front Panel Interface	E5061-66652		E5063-66672
Analog for LF Option - 205/215/235/245/265/285	A1 E5063-63021		A3 E5063-63013
Analog for HF Option - 2D5/2H5			A1 E5063-63021
FW	A.01.00-A.03.00	A.03.52 or above	A.04.01 or above
SSD Volume label	KA101-KA300	KD353	KE402
Serial prefix	MY541/SG541	MY542/SG542	MY543/SG543, MY544/SG544

*Make sure that the firmware/module is compatible while repair/replace process is on–going

1. When TPC is found to be defective:
   - For defective Gunze TPC, replace it with Gunze TPC.
   - For defective Dawar TPC, replace it with Dawar TPC.
   - Refer to Table 1 for the compatibility.

2. When A1 board is found to be defective:
   - For serial prefix MY543/SG543 and above:
     - HF Option, replace with A1 board (E5063-63011).
     - LF Option, replace with A3 board (E5063-63003).
   - For serial prefix MY541/SG541 or MY542/SG542:
     - HF Option & LF Option, replace with A1 board (E5063-63011).

3. When **system recovery** is done, the firmware is recovered to original version which the firmware no longer recognizes A3 board. Update the firmware to A.04.01 and above to proceed.

4. When CPU is found to be defective:
   - For defective Kontron CPU, replace it with Kontron CPU (E5061-62180).
   - For defective Argo CPU, replace it with Argo CPU (E5063-65053). Note that repair for CPU-FAN is not allowed for Argo CPU.
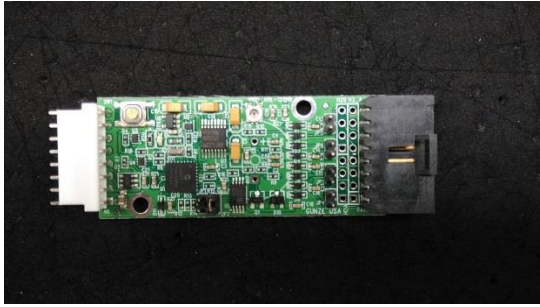   - Refer to Table 1 for the compatibility.

5. When SSD is found to be defective:
   - Refer Table 2 below or Table 1 on the compatibility.

Table 2 SSD/Removable SSD Compatibility Table

Original	E5063-82201	E5063-82202	E5063-82211
Replace	E5063-82201	E5063-82202	E5063-82211

6. Backward compatibility of E5061-60113 to the existing E5061-60112:
   - No, the E5061-60113 is not backward compatible to E5061-60112.

7. Difference between Gunze/Dawar Touch Panel & Touch Panel Controller:

	Gunze	Dawar
Touch Panel Controller		
Touch Panel		

Touch Panel at the Top: Gunze, Touch Panel at the bottom: Dawar

The connection for Gunze & Dawar Touch Panel to Controller:

<u>Dawar:</u>

1. Connect Dawar Touch Panel to Dawar Touch Panel Board/Controller as shown in Figure 1Figure 5 below. **The cable must be connected to the lower row of the pin**. The hole of the cable from touch panel should be facing inwards, which mean that after connecting to the controller board, the hole of the cable should not be viewable. Refer to Figure 2, Figure 3 and Figure 4 for the picture of the connection.
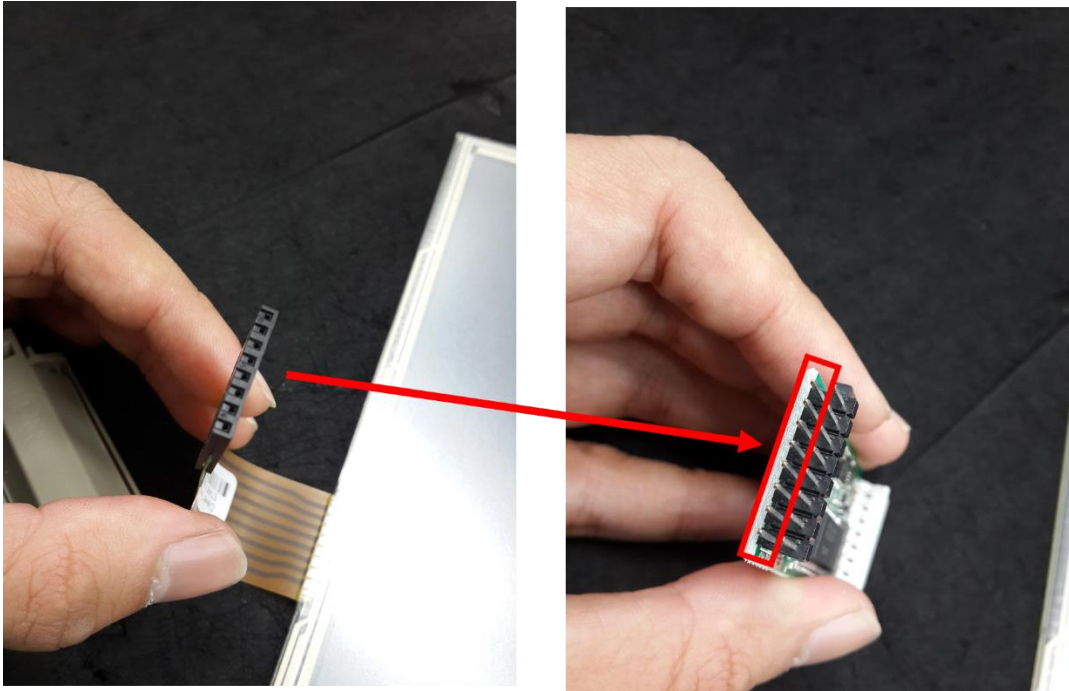

Figure 1 Connection of Dawar Touch Panel & Controller Board

Figure 2 Touch Panel Cable's direction (The hole will be facing inward)
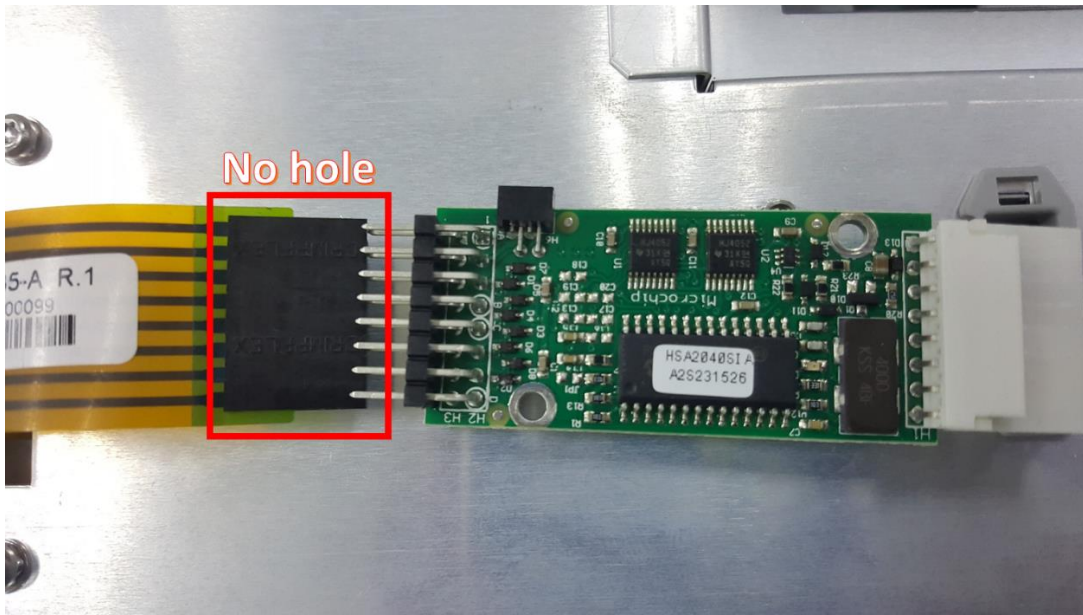
Figure 3 Correct direction of the cable connecting to the controller board
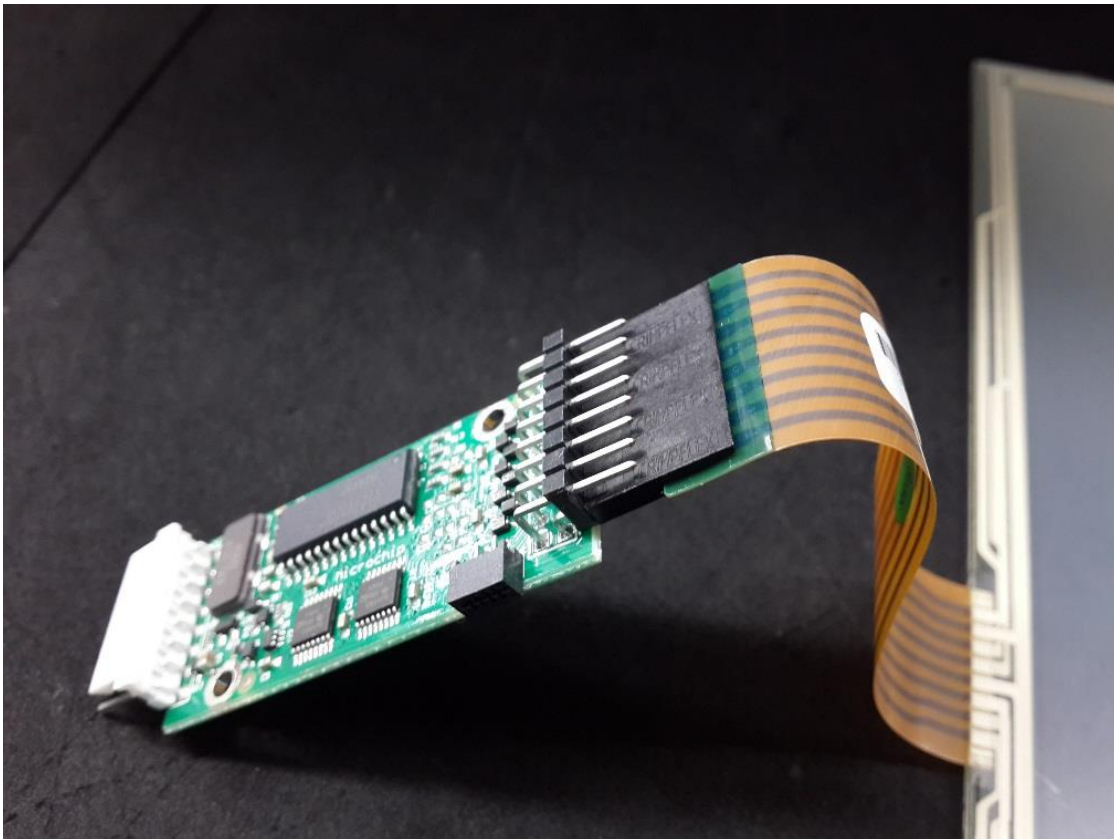

Figure 4 Complete connection of Dawar Touch Panel and Touch Panel Controller Board

<u>Gunze:</u>

1. Connect Gunze Touch Panel to Gunze Touch Panel Board/Controller as shown in Figure 5 below. The Figure 6 shows complete connection of Gunze Touch Panel and Touch Panel Controller Board.
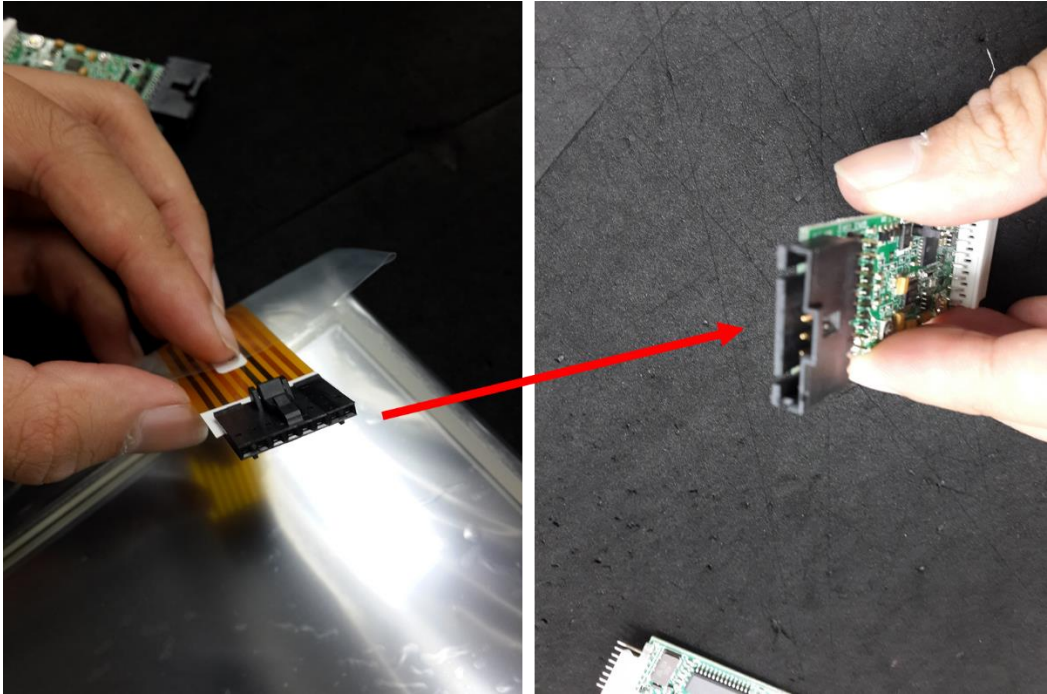

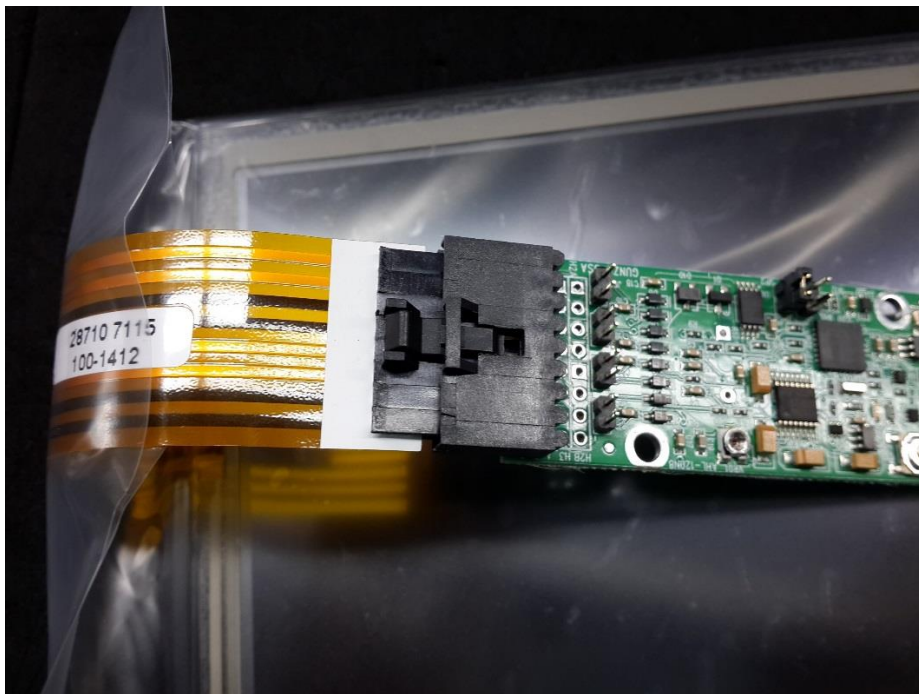*Figure 5 Connection of Gunze Touch Panel & Controller Board*

Figure 6 Complete connection of Gunze Touch Panel and Touch Panel Controller Board

Revision History:

Date	Service Note Revision	Author	Reason for Change
10 August 2016	E5063A-09	BS	As Published
16 November 2016	E5063A-09A	BS	Added the connection of touch panel to touch panel controller
6 September 2017	E5063A-09B	BS	Added and updated the information to include the new generation of E5063A