

N1055A-01

# Modification Recommended Service Note

Supersedes:  
NONE

## N1055A - 35/50 GHz 2/4 Port TDR/TDT Remote Sampling Head for the 86100D DCA-X

Serial Numbers: MY00000000-MY57200000

Beginning with serial number MY57200001, a design change has been implemented on the N1055A remote head sampler board. When changing sampler boards on units with lower serial numbers, all sampler boards may need to be replaced to prevent mixed design hardware configurations.

### Parts Required:

Option dependent. See table below.

#### ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS		
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	0.5 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 checked="" type="checkbox"/> SCRAP
	<input checked="" type="checkbox"/> SERVICE CENTER		<input checked="" type="checkbox"/> SEE TEXT	<input type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS			
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	PRODUCT'S SUPPORT LIFE	
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	PL8F	
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	MM	

ADDITIONAL INFORMATION:

One N1055A Remote Head Assembly Board with the appropriate connector type is needed for each remote head. Exchange parts should be used if available. New parts may be used only if exchange parts are not available.

**Exchange Parts:**

N1055A Option	P/N	Connector Type	Qty
32F (35 GHz 2-CH F)	N1055-69033	2.92 mm Female	2
34F (35 GHz 4-CH F)	N1055-69033	2.92 mm Female	4
32M (35 GHz 2-CH M)	N1055-69032	2.92 mm Male	2
34M (35 GHz 4-CH M)	N1055-69032	2.92 mm Male	4
52F (50 GHz 2-CH F)	N1055-69031	1.85 mm Female	2
54F (50 GHz 4-CH F)	N1055-69031	1.85 mm Female	4
52M (50 GHz 2-CH M)	N1055-69030	1.85 mm Male	2
54M (50 GHz 4-CH M)	N1055-69030	1.85 mm Male	4

**New Parts (use only if exchange parts are not available):**

N1055A Option	P/N	Connector Type	Qty
32F (35 GHz 2-CH F)	N1055-60033	2.92 mm Female	2
34F (35 GHz 4-CH F)	N1055-60033	2.92 mm Female	4
32M (35 GHz 2-CH M)	N1055-60032	2.92 mm Male	2
34M (35 GHz 4-CH M)	N1055-60032	2.92 mm Male	4
52F (50 GHz 2-CH F)	N1055-60031	1.85 mm Female	2
54F (50 GHz 4-CH F)	N1055-60031	1.85 mm Female	4
52M (50 GHz 2-CH M)	N1055-60030	1.85 mm Male	2
54M (50 GHz 4-CH M)	N1055-60030	1.85 mm Male	4

Additionally, one label is required for tracking purposes:

P/N	Description	Qty
N1055-80022	Label, Razor Service Note	1

**Situation:**

Beginning with serial number MY57200001, all N1055A units are built using a newly designed step generator IC to address an assurance of supply issue. This change does not impact customer specifications or performance.

For previously built units (serial number < MY57200000), failed/damaged sampler boards should be replaced with new-design boards per the usual repair process.

Because it is not desired to allow a unit to have a mixed-design hardware configuration, any passing/undamaged old-design sampler boards should also be replaced. The customer should not be charged for the passing/undamaged boards which must be replaced because of the failure of an old-design board.

Once a unit has been upgraded to have all new-design sampler boards, it can be serviced according to the usual process moving forward. This Service Note should only be applied one time to any given serial number.

#### **Solution/Action:**

Upon receipt, the unit should be tested using the As Received test plan per the usual process. If it is determined that one or more remote head sampler boards are required to be replaced, and the unit has old-design sampler boards installed (see part numbers below), then all remote head sampler boards on the unit must be replaced with new-design parts.

The customer should not be charged for the additional parts and installation labor required to replace sampler boards which pass the As Received test.

The customer should be charged for parts and labor associated with the repair of any failed sampler board(s), and for full calibration, as appropriate under the normal repair process.

For example, consider the case of a four-channel module with old-design samplers which has two failed samplers and two good samplers. The two bad samplers will be replaced under the normal repair process and the two good samplers will be replaced as required by this service note.

For reference, the old-design sampler board part numbers are as follows:

#### **OLD-DESIGN PART NUMBERS**

Exchange P/N	New P/N	Connector Type
N1055-69011	N1055-60011	1.85 mm Male
N1055-69012	N1055-60012	1.85 mm Female
N1055-69013	N1055-60013	2.92 mm Male
N1055-69014	N1055-60014	2.92 mm Female

If old-design parts are present in inventory, it is acceptable to use them for repair of a unit which has old-design sampler boards installed. In this case, it will only be necessary to replace failed sampler boards and this Service Note will be considered as NOT applied to the unit.

After repair, the unit should be adjusted and tested as applicable per the usual process.

Additionally, if old-design boards have been replaced with new-design boards, a service note label should be installed, as shown in the section below.

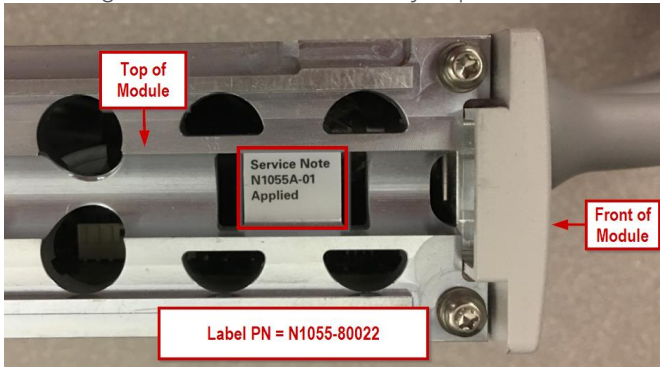
Removed old-design boards (failed and not failed) should be scrapped. They will not be reworked and should not be reused.

#### **Tracking Units:**

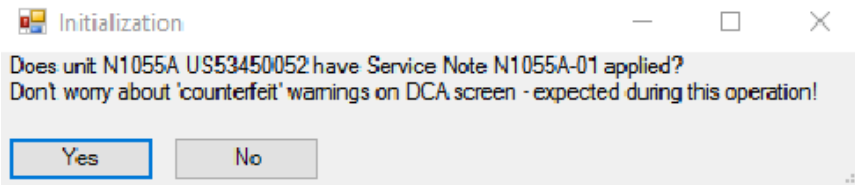
In addition to recording the execution of this Service Note in Siebel, two additional methods are used to indicate that a unit with serial number < MY57200000 has had the new-design sampler boards installed:

- 1) After repair with a new style sampler board, label (PN N1055-80022) shall be placed on the

central groove of the module body top rail as shown below:

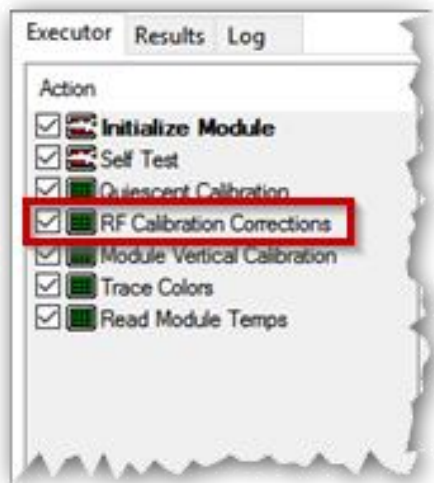


- 2) "N1055A-01" shall be added to the comments field of the unit's memory. When applicable, the N1055A test code will ask if this service note has been executed and update the comments field accordingly. Select 'Yes' if new-design boards are installed:



In most cases, manual editing of the comments field is not required. If necessary, the comments field may be altered using Service Mode and is found in the System Debug window. Existing comments should not be overwritten; text should be appended instead.

If the test code incorrectly identifies the version of sampler board installed, the RF Calibration Corrections test is expected to fail:



If there is a doubt as to what version of sampler boards are installed in a unit, remove the covers of the remote heads and compare the part number labels to the tables above.

Revision History:

Date	Service Note Revision	Author	Reason for Change
24 July 2018	01	MM	As Published