N5182A-07A

S E R V I C E   N O T E

N5182A MXG Vector Signal Generator

Serial Numbers: MY46240000 / MY48180000
US46240000 / US48180000
SG46240000 / SG48180000

Depending on the installed options, N5182A A3 RF Assembly failures that occur in most older N5182A MXG's with a S/N: prefix < (less than) xx4818xxxx are required to use one of the following EXCHANGE assemblies for repairing the failed unit.

Parts Required:

P/N	Description	Qty.
N5180-69122	A3 RF Assembly	1
N5180-69123	A3 RF Assembly	1
N5180-69124	A3 RF Assembly	1
N5180-69125	A3 RF Assembly	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
INFORMATION ONLY

AUTHOR: AKS	PRODUCT LINE: PL15

ADDITIONAL INFORMATION:

Return ALL DEF (defective assemblies) via the PRP process as soon as possible. Doing so will ensure future Exchange part(s) availability.

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Agilent Technologies

Situation:

N5182A MXG Vector Signal Generators, with a serial number prefix of $<$ (less than) xx4818xxxx, should be repaired with an older version of the EXCHANGE A3 RF Assembly. These EXHANGE assemblies will meet all the older MXG's original warranted specifications. For these older MXG units, these A3 RF Assemblies will be more readily available and can reduce repair turn-around time.

All 1EM Optioned (Rear Panel) MXG's along with MXG instruments with prefix $\geq$ (greater than or equal to) serial number prefix xx4818xxxx should continue to use existing replacement assemblies .

Solution/Action:

The MXG Service Guide (P/N: N5180-90006) has been updated on the web with New Part Replacement Tables 2-2; 2-3 and 2-4. These tables, based on an MXG's product SERIAL NUMBERS, depict the correct A3 RF Assembly required for a particular N5182A repair; given frequency and other configured options within a particular unit. Match the unit's frequency requirement with the installed options in order to select the correct A3 RF Assembly for repairing the MXG.

Below are excerpts from the updated MXG Service Guide depicting the available A3 RF Assemblies and associated replacement part numbers:

Table 2-2 N5181A/82A

Description	Option 501		Option 503		Option 506	
	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
Front Panel - N5181A (Analog)	N5180-60110	2-10	N5180-60110	2-10	N5180-60110	2-10
Front Panel - N5182A (Vector)	n/a	n/a	N5180-60111	2-10	N5180-60111	2-10
Key Pad	N5180-60021	2-8	N5180-60021	2-8	N5180-60021	2-8
Power Switch	N5180-60022	2-8	N5180-60022	2-8	N5180-60022	2-8
USB Board	N5180-60023	2-8	N5180-60023	2-8	N5180-60023	2-8
LCD	N5180-60024	2-8	N5180-60024	2-8	N5180-60024	2-8
A1 Power Supply	N5180-60060	2-10	N5180-60060	2-10	N5180-60060	2-10
A2 Vector Module Assembly (N5182A only)	n/a	n/a	N5180-69006	2-10	N5180-69006	2-10
A3 RF Assembly	See Table 2-3 or Table 2-4 for serial number specific assemblies.					
A3BT1 Lithium Battery	1420-0356	2-13	1420-0356	2-13	1420-0356	2-13
A4 Internal Memory Card (N5182A only)	n/a	n/a	1819-0693	2-13	1819-0693	2-13
A5 CPU[a]	N5180-60190	2-13	N5180-60190	2-13	N5180-60190	2-13
A6 DC-AC Inverter Interface	N5180-60025	2-8	N5180-60025	2-8	N5180-60025	2-8
B1 thru B4 Fan (each)	N5180-60026	2-10	N5180-60026	2-10	N5180-60026	2-10
CVR, Front Panel	N5180-40012	2-29	N5180-40012	2-29	N5180-40012	2-29

[a]The replacement of the A5 CPU requires firmware $\geq$A.01.60.

Table 2-3   N5181A/82A Instrument Serial Number < xx4818xxxx

Description	Option 501		Option 503		Option 506	
	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
A3 RF Assembly UNM[a][b] (front panel output)	N5180-69122	2-13	N5180-69122	2-13	N5180-69124	2-13
A3 RF Assembly UNM with 1EL, or UNU, or UNT, or all[a] (front panel output)	N5180-69122	2-13	N5180-69122	2-13	N5180-69124	2-13
A3 RF Assembly UNM with 1EL, or UNU, or UNW, or UNT, or all & any combination or all of the following options; UNV, UNZ, 1EA, 1EQ and 099[a] (front panel output)	N5180-69123	2-13	N5180-69123	2-13	N5180-69125	2-13
A3 RF Assembly 1EM All (*Any combination of options or no options*)[a] (rear panel output)	N5180-69170	2-13	N5180-69170	2-13	N5180-69170	2-13

[a]The replacement of the A3 RF assembly requires firmware ≥A.01.42. To avoid configuration errors, download firmware ≥A.01.42 prior to replacing the A3 assembly. If the A3 RF assembly is replaced prior to downloading firmware ≥A.01.42, downloading firmware ≥A.01.42 and cycling the power should correct any configuration errors.
[b]The replacement of the A5 CPU requires firmware ≥A.01.60.

Table 2-4   N5181A/82A Instrument Serial Number ≥ xx4818xxxx

Description	Option 501		Option 503		Option 506	
	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
A3 RF Assembly UNM[a] (front panel output)	N5180-69166	2-13	N5180-69166	2-13	N5180-69168	2-13
A3 RF Assembly UNM with 1EL, or UNU, or UNT, or all[a] (front panel output)	N5180-69166	2-13	N5180-69166	2-13	N5180-69168	2-13
A3 RF Assembly UNM with 1EL, or UNU, or UNW, or UNT, or all & any combination or all of the following options; UNV, UNZ, 1EA, 1EQ and 099[a] (front panel output)	N5180-69167	2-13	N5180-69167	2-13	N5180-69169	2-13
A3 RF Assembly 1EM All (*Any combination of options or no options*)[a] (rear panel output)	N5180-69170	2-13	N5180-69170	2-13	N5180-69170	2-13

[a]The replacement of the A3 RF assembly requires firmware ≥A.01.42. To avoid configuration errors, download firmware ≥A.01.42 prior to replacing the A3 assembly. If the A3 RF assembly is replaced prior to downloading firmware ≥A.01.42, downloading firmware ≥A.01.42 and cycling the power should correct any configuration errors.