N5183A-05

S E R V I C E N O T E

Supersedes:
None

N5183A MXG Microwave Analog Signal Generator

Serial Numbers: All

RF Output connector replacement part numbers and procedure

Parts Required:

P/N	Description	Qty.

See table “Replacement Parts List and Torque Requirements”

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **INFORMATION ONLY**	
AUTHOR: DMc	PRODUCT LINE: 15
ADDITIONAL INFORMATION:	

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Situation:

Unlike the N5181A and N5182A, the RF output connectors which are not field replaceable; the N5183A RF output connector is field replaceable. This service note should be used to replace N5183A RF output connectors until the MXG Service Guide is updated to and includes the RF output connector replacement material and procedure.

Solution/Action:

Front RF output connector replacement:

When replacing a front panel RF output connector, it is recommended that the connector, RF spacer (where applicable), and RF bracket be replaced as an assembly. The bracket, RF spacer, and bracket should be assembled on the bench using a vice to hold the bracket and then the complete assembly installed in the instrument.

Procedure:

1. Place the bracket in a vice
2. For 3.5mm and Type N connectors perform the following:
   a. Slide the spacer over the RF connector
   b. Using a wrench screw the spacer and connector into the bracket to the torque listed in the table
3. For a 2.4mm connector, install the 2.4mm connector into the bracket and tighten the connector to the torque listed in the table.
4. Remove the front panel as outlined in the service guide.
5. For all connector types, loosen the cable between the RF output connector and attenuator at the attenuator end of the cable and disconnect the attenuator to RF output cable from the old RF output connector.
6. Remove the connector by removing the three screws holding the connector assembly.
7. Position the new connector assembly in place, install the 3 mounting screws, and torque to the specification listed in the table.
8. Connect and tighten both ends of the cable between the attenuator and the RF connector to the specifications listed in the table.
9. Install the front panel using the procedure outlined in the service guide
10. Using the service software perform the “Limited Absolute Power Calibration” adjustment and the “Power Level Accuracy” performance test.

Rear panel RF output connector replacement (option 1EM):

When replacing a rear RF output connector it is recommended to only replace the connector.

Procedure:

1. Remove the rear panel using the procedure outlined in the service guide
2. Loosen the connector on the attenuator end of the cable going from the attenuator to the RF connector and remove the cable from the RF output connector.
3. For 3.5mm and Type N connectors use a wrench to hold the adapter while loosening and removing the RF connector.
4. Install and tighten the replacement RF connector.

Replacement Parts List and Torque Requirements

	Connector (Qty)	RF Spacer (Qty)	RF Bracket (Qty)	Adapter (Qty)	Cable (Qty)	Cable Torque	Connector Torque	Spacer/ Adapter Torque	Screws (Qty)
Front RF Output									
Type N	08559-60002 (1)	N5180-20056 (1)	N5180-20114 (1)	n/a	N5180-20088 (1)	9”lbs	75”lbs	n/a	0515-1227 (3)
3.5mm	08673-60040 (1)	E8251-20068 (1)	N5180-20115 (1)	n/a	N5180-20057 (1)	9”lbs	25”lbs	n/a	0515-1227 (3)
2.4mm	5063-1700 (1)	n/a	N5180-20116 (1)	n/a	N5180-20046 (1)	9”lbs	75”lbs	n/a	0515-1227 (3)
1EM (Rear RF Output)									
Type N	08559-60002 (1)	N5180-20056 (1)	n/a	N5180-20062 (1)	N5180-20089 (1)	9”lbs	75”lbs	75”lbs	n/a
3.5mm	08673-60040 (1)	E8251-20068 (1)	n/a	N5180-20061 (1)	N5180-20057 (1)	9”lbs	25”lbs	75”lbs	n/a
2.4mm	5063-1700 (1)		n/a	N5180-20060 (1)	N5180-20049 (1)	9”lbs	75”lbs	75”lbs	n/a