



service note

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RADIO COMMUNICATIONS TEST SET 2955 EPROM SET ISSUE 9 ON AB4

PROBLEM

Issue 9 software causing problems with sinad measurements, giving unstable readings placing instrument outside of its published specification.

SERIAL No's AFFECTED

All instruments with issue 9 software fitted. Check instruments between 132002-100 and 132004.

REMEDIAL ACTION

Fit issue 10 software part number 44533-155T.

Note : If for some reason issue 10 software is to be fitted in place of issue 4 to issue 8 software refer to sheet 2.

IMPLEMENTATION

Modify at first opportunity. No customer should be using an instrument with issue 9. Software for sinad measurements.

PRODUCT SUPPORT GROUP
08/03/86 GS/ KT
B44696



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RADIO COMMUNICATIONS TEST SET 2955

PROBLEM

The software in the 2955 is being updated from Iss 12 to Iss 13.
For detailed list of changes see sheet 2.

Note: The major reason the software is changing is for use with
the directional power heads and there is no real reason to
update unless these are to be used with the instrument.

SERIAL NO's AFFECTED

Below 132073.

REMEDIAL ACTION

Update software from Iss 12 to Iss 13 (M.I. Part No 44533-155T).

IMPLEMENTATION

Information only.

PRODUCT SUPPORT GROUP
Wk: 02/88 GS/JW
I/13/1175

Changes incorporated in issue 13

- 1) All screen references to THROUGH-LINE POWER METER have been changed to DIRECTIONAL POWER METER to avoid confusion with the Bird trademark THRU-LINE. Also RMS POWER has been renamed CW POWER.
- 2) Readings from the directional power meter can now be printed on the ticket printer in the same way as other readings.
- 3) GPIB instructions SN1 for SINAD and SN2 for S/N used to get mixed up when the default was set to S/N.
- 4) The bug where SAT sometimes remained on the screen has been corrected.
- 5) The internal power meter now has a 300W range. Note: This does not mean you can now apply 300 Watts of power to the inputs.



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RADIO COMMUNICATIONS TEST SET 2955 SOFTWARE VERSION 14

PROBLEM

Software version 14.

It has been seen on some equipment that when the 2955 is used in conjunction with the cellular adapters the TX NOISE test can sometimes fail due to the 2955 intermittently switching in the 15kHz low pass filter instead of the 300Hz low pass filter. Issue 14 software ensures that this does not happen.

SERIAL NO's AFFECTED

REMEDIAL ACTION

If the 2955 is being used with an adapter and problems are being experienced with the TX NOISE test due to the incorrect filter being switched in then the software should be updated to issue 14.

The above is the only difference between version 13 and version 14. It should be noted that there is no requirement to update to issue 14 software if this problem is not being experienced.

IMPLEMENTATION

Information only.

PRODUCT SUPPORT GROUP
Wk:41/90 GS/JW

2955-131

Software changes between ISSUE 14 and 15

FIXES

- 1) Section of centre separating line in DX mode no longer deleted when entering RF GEN FREQ.
- 2) AF GEN output no longer has 1.3ms spaced spikes causing noise on AF output especially at low levels. This problem was specific to issue 14 software not earlier versions.

ADDED FEATURES

- 1) New GPIB commands added for DAMPS. See additional information attached.



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RADIO COMMUNICATIONS TEST SET 2955 SOFTWARE UPDATE FROM ISSUE 15 TO ISSUE 16

PROBLEM

2955 SOFTWARE IS BEING UPDATED FROM ISSUE 15 TO 16.

The software is being updated to correct a problem introduced in issue 15 software which prevented operation of the RX = TX function. It does not affect software versions prior to issue 15.

SERIAL NO's AFFECTED

Instruments fitted with ISSUE 15 software.

REMEDIAL ACTION

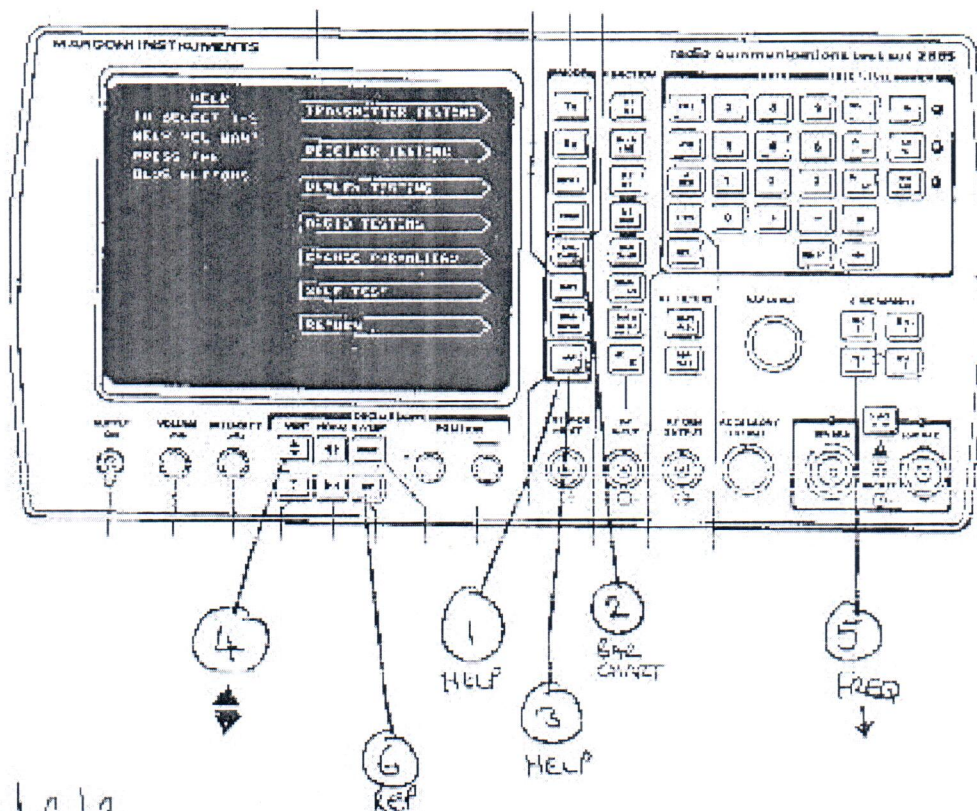
If the 2955 is fitted with issue 15 software then the software should be updated to issue 16 M.I. Part Number 44533-155.

IMPLEMENTATION

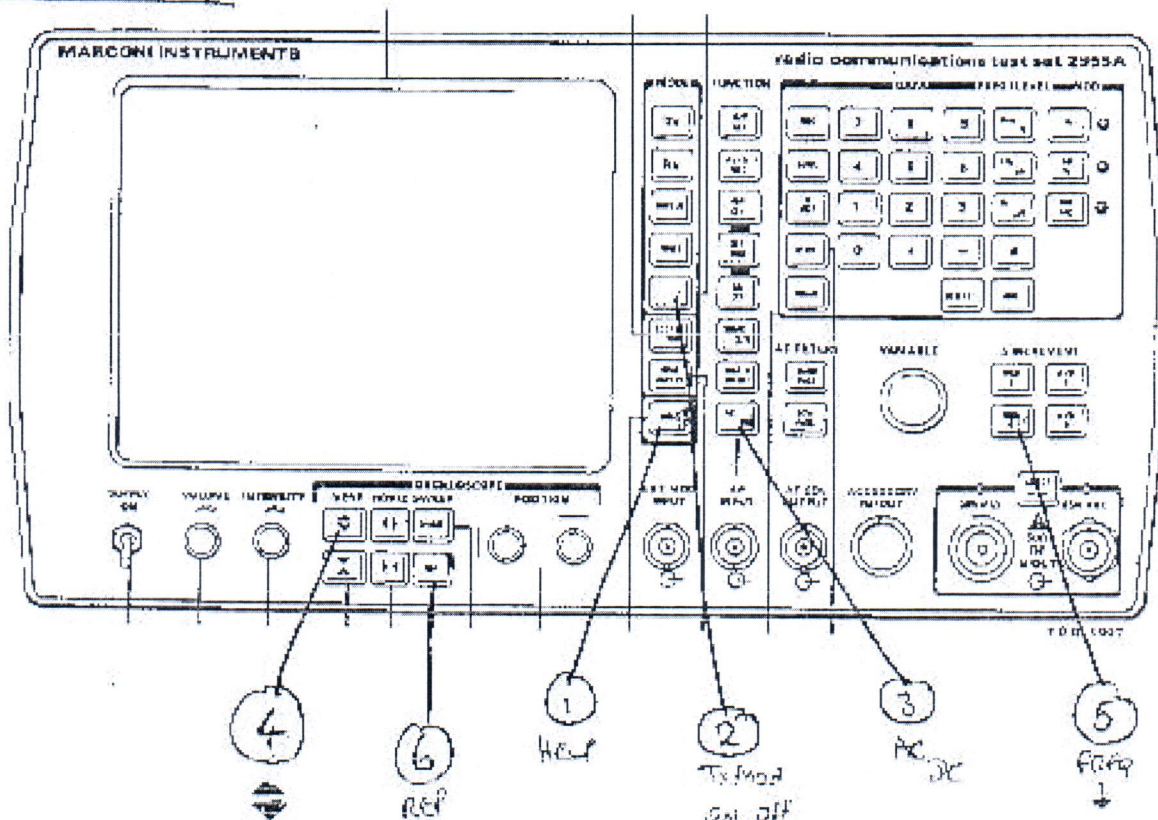
Only if necessary [3]. See remedial action.

PRODUCT SUPPORT GROUP
Wk:50/92 GS/JW
I/13/22251

Key sequences to get into cal mode:



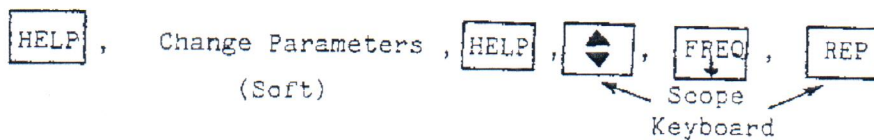
2955A/R/B



2955 SOFTWARE CHANGE - UPGRADING TO ISSUE 10 FROM ISSUE 8 AND BELOW

IF THE ABOVE IS APPLICABLE THE FOLLOWING DATA MUST BE ENTERED INTO THE EARM. FOLLOW THE PROCEDURE BELOW.

To unlock the instrument to enter EARM data, press the following keys in order:



Then follow menu displayed to enter data into the following locations:

ADDRESS	DATA	FUNCTION
63105	238	Nominal data
63106	000	for through-line
63107	128	power meter
63108	000	"
63109	242	"
63110	47	"
63111	136	"
63112	000	"
63113	238	"
63114	146	"
63115	221	"
63116	000	"
63127	7	TONE STANDARD (LENGTH)
63128	10	CCIR 100ms
63129	10	ZVEI 70ms
63130	10	DZVEI 70ms
63131	10	EIA or EEA 33ms
		User defined ??

2955 UNLOCKING PROCEDURE AND DATA INSERTION

The following gives the procedure for unlocking the 2955 to gain access to the memory locations containing software correction data for the calibration of FM tracking, amplitude modulation, RF levels, attenuator, and power measurement.

To unlock the 2955 press the following keys in sequence:-

Help, Change Parameters, Help,  , Freq, Rep.


The 2955 display should now appear as follows:-

ENTERING NEW DATA

First, enter address required, by pressing "Enter Address" key followed by the address number.

The read display will then show the current correction figure stored in that particular memory location.

To enter a new figure use the white data keys. The new figure will appear under the write display.

Press the "enter data" key and make sure the new figure has been transferred to the read display.

To get out of calibration data menu press the return key.

B-2-08