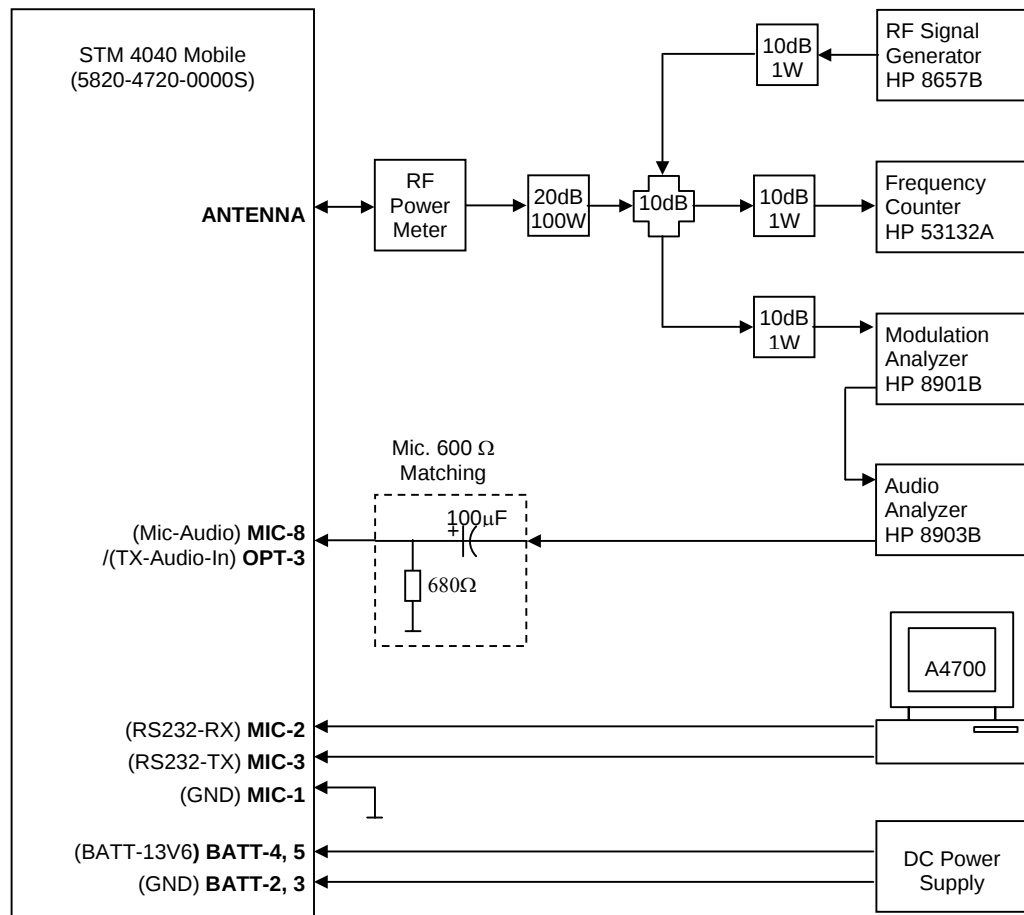


METHODS OF ADJUSTMENTS



- Connect the equipment as illustrated.
- Set the Power Supply output voltage to 13.6 volts and current limit to 10 amperes.
- Set the RF Signal Generator output to its minimum level.
- Set the Audio Analyzer output impedance to 600 Ω and amplitude to 0 Vrms.
- Set the Modulation Analyzer to measure +/-peak deviation. Turn the de-emphasis function off. Set the audio bandwidth for ≤ 5 Hz to ≥ 15 kHz.
- Run MRA4700.exe, click on the "Read Radio" icon and enter the "Radio Adj." menu.
- Adjustments specified in steps 5.1–5.10 should be applied consecutively to all models unless otherwise specified.

- h) If “Analog Frequency Adjustment” is changed, then “C4FM Receive Level Adjustment” has to be repeated.
- i) If “Modulation Flatness Adjustment” or “Modulation Limiting Adjustment” is changed, then the successive modulation and deviation adjustments have to be repeated.

5.1 RF Output Power Adjustment

- a) Enter “RF Output Power Adjustment” window and click “Transmit”.
- b) Adjust RF Output Power Parameter to obtain the measured power levels to be equal to the selected power levels for each selected frequency.

5.2 Analog Frequency Adjustment

- a) Enter “Analog Frequency Adjustment 25 kHz” window and click “Transmit”.
- b) Adjust parameter until the frequency error to be less than 10 Hz at the test frequency.

5.3 Digital Frequency Adjustment

Applicable only to digital models.

- a) Enter “Digital Frequency Adjustment” window and click “Transmit”.
- b) Adjust parameter until frequency error to be less than 10 Hz at the test frequency.

A4700

A4700 Device Adjustments Test Options

Definition Date : 18.07.2008 Software Ver. : SMM 0.00.0000

Device Type : Mobile Software Type : AP25 Conv.

Frequency Band : 380 - 470 MHz Factory S.N. :

Maximum Power : 40 W Customer S.N. :

Hardware No : 2

Revision / Order No

Device	:	A	0
RF.C.B.	:	A	0
F.P.B.	:	A	0

DSP B. : 0

ENC.B. : 0

Modifications

RF Power Output Adjustment

☒ 380,100000 MHz
☐ 425,100000 MHz
☐ 469,900000 MHz

☒ 15 W
☐ 30 W

☐ Transmit
☒ Off

TEST

Prepare the test setup shown on
[4700 Mobile Adjustment Manual](#)

According to the adjustment procedure on
 4700 Mobile Adjustment Manual
 change the value below.

0 112 255

Press OK when done.
 Press BACK or SKIP to skip this adjustment.

<< BACK

OK

SKIP >>