

CHART 1: ADJUSTING THE OUTPUT OF THE 71A MILLIWATT REFERENCE GENERATOR

The output power of all of the outlets supplied by a J94071A milliwatt generator is adjustable by a screwdriver-operated potentiometer, designated MW ADJ, located on the generator unit. The adjustment herein described establishes 1 mw at the 600-ohm maintenance outlet jack, also located on the generator unit. This adjustment procedure should be followed when the generator is initially installed, when the number of outlets to be supplied by the generator is changed, or when the generator is replaced. Procedures for adjusting the output power at individual outlets using adjustable distributing networks, and for *checking* the output power at the maintenance outlet, are given in Section E30.223 (A204.474).

Note: In all cases, when the MW ADJ potentiometer is adjusted or any of the outlets from the generator measured, *steps should be taken to ensure that all outlets being served by the generator are properly terminated.* Spare distributing networks should be equipped with idle circuit terminating resistors.

To avoid inadvertent or unwarranted changes in the setting of the MW ADJ potentiometer, it is accessible only after removing the cover from the generator chassis.

APPARATUS:

22A Milliwatt Reference Meter per J94022A (preferred)
 7A Transmission Measuring Set } alternate equipment
 2AA Milliwatt Reference Set }
 Patch cords or test leads, as short as possible, equipped with *clean plugs*.

STEP	PREFERRED PROCEDURE	REMARKS
1	Calibrate the 22A set according to the instructions given on the face of the set.	
2	Connect the 22A to the 600-ohm maintenance outlet jack on the generator panel.	
3	Adjust the MW ADJ potentiometer on the generator panel until a reading of precisely 0.0 dbm is obtained on the 22A.	Exercise the MW ADJ potentiometer by moving it back and forth to remove surface deposits.

STEP	ALTERNATE PROCEDURE	REMARKS
1	Calibrate the 7A set in accordance with Section E40.220 (A702.610), Chart 1, Steps 1 through 4.	
2	Calibrate the 2AA set in accordance with Section E40.628 (A702.678).	
3	Connect the 600-ohm output of the 2AA set to the 7A set.	

SECTION A702.629.01
SECTION E40.376.01

STEP	ALTERNATE PROCEDURE	REMARKS
4	Adjust the reference controls of the 2AA set until a reading of precisely 0.0 dbm is obtained on the 2AA set galvanometer.	
5	Read the 7A set and record the reading.	Do not move the 7A set after this reading. Otherwise, repeat Steps 5 through 11.
6	Reverse the polarity of the leads or cord between the 2AA and 7A sets.	
7	Read the 7A set and record the reading.	
8	Average the readings obtained in Steps 5 and 7, taking the signs into account.	
9	Adjust dial 3 of the 7A set until the average obtained in Step 8 is precisely 0.0 dbm. Repeat Steps 4 through 8. The readings obtained in Steps 5 and 7 should be above and below zero by the same amount.	
10	Connect the 7A set to the 600-ohm maintenance jack outlet on the 71A panel.	
11	Adjust the MW ADJ potentiometer on the generator panel until a reading of precisely 0.0 dbm is obtained on the 7A set.	Exercise the MW ADJ potentiometer by moving it back and forth to remove surface deposits.