

4A TIME ANNOUNCEMENT SYSTEM

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1. INTRODUCTION

1.001 This addendum is issued to cover a change in the volume level indicator provided with Audichron machines of later manufacture. The amplifiers of the 4A Time Announcement System are adjusted on speech or tone according to the readings made on the Audichron meter and, therefore, the information given in Section 852-524-100 must be changed when the new volume level indicator is employed.

2. GENERAL

2.001 In Section 852-524-100, talking volume measurements and system lineup procedures are considered on the basis of a db meter provided with the Audichron machine. This meter has a meter scale reading from -10 to +6 db based upon 6 milliwatts of reference power. As a voltmeter, the pointer should indicate 0 ± 0.5 db when 1.91 volts of 1000-cycle tone is connected across the meter terminals. The newer Audichron machines are being shipped with a Weston Model 301 volume level indicator having a meter scale of -20 to +3

vu, which is a standard vu meter. In addition to the meter, an external 3600-ohm resistor and a 4-db resistance pad are provided on the same panel.

2.002 The vu meter together with this external resistor and pad arrangement should read 0 when 1.94 volts of 1000-cycle tone is connected across the combination; whereas, the old meter was calibrated on 1.91 volts of 1000-cycle tone. This difference is not significant in itself, but the dynamic characteristics and scales differ appreciably.

3. LEVEL READING CHANGES

3.001 In vocal operation (Section 852-524-100, 3.03), it is stated that the volume output of the power amplifier used for vocal operation should be adjusted so that the meter pointer swings between -5 and +5 on peaks of speech. Where the vu meter is provided with the Audichron machine, this meter pointer should swing between -7 and +3 on peaks of the operator's speech. (The +3 value is top scale on this meter.)

3.002 In Section 852-524-100 6.02 and 6.03, the swing of the meter pointer on the scale should be -7 to +3 with the vu meter and -5 to +5 in the case of the db meter. The same applies to 7.02 covering the adjustment at the Central Bureau and 7.03 (3) covering the readjustment of the power amplifier at the Main Bureau after the system has been aligned.

