BELL SYSTEM PRACTICES Plant Series

142-TYPE AMPLIFIERS — DESCRIPTION

1. GENERAL

1.01 This addendum to Issue 1 of Section 024-106-100 is issued to discuss the connections to the ac power transformer T2 and to point out the penalties to be expected when using power transformer taps not agreeing with actual power line supply voltages.

2. TRANSMISSION AND CIRCUIT FEATURES

Add the following paragraphs:

2.161 The primary winding of ac power transformer T2 (KS-14255) is provided with three taps. Tap No. 1 is wired to one end of the primary winding, and is connected through a 2-ampere fuse and a switch to one side of the ac power supply line. The other side of the power supply line is connected to either tap No. 2 or tap No. 3, depending on whether the nominal ac power voltage for the office is in the range 105-115 volts or 115-125 volts, respectively.

2.162 If the power line connections are made to taps 1 and 2 of transformer T2 (105-115volt range), and the office power line supply voltage is consistently higher (disregarding occasional momentary peaks or surges) the electron tube life will be reduced. If transformer T2 taps 1 and 3 are used (115-125-volt range), and the office voltage is consistently lower (disregarding occasional dips) the power handling capacity may be affected, causing overloading.

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