



SLC[®] Series 5 Carrier System

AUA45() Dual Ringing Repeater Channel Unit — 5SCUUJ5

This data sheet describes the AUA45() dual ringing repeater (COMCODE 105717987) and is intended for the end-user of this unit. The AUA45() is used in the SLC[®] Series 5 Carrier System to provide 2-wire private line point-to-point manual ringdown service. Each channel unit occupies one physical slot in a channel bank and provides two channels of service. Each channel operates independently. The unit can detect and originate AC ringing on its tip and ring interface and provides a voice-frequency transmission channel.

This data sheet is reissued to make minor editorial corrections.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the faceplate and component layout.

The same channel unit is used in the central office terminal (COT) and the remote terminal (RT), and is used in pairs (one COT unit communicates with one RT unit). Each channel unit has three option switches. One switch is set to correspond to the channel unit location, COT or RT, and the remaining two switches (one for each channel) set the channel loss to 0 dB or -3 dB in both the transmit and receive directions. The option switches for the AUA45() are physical switches located on the printed wiring board and must be set *manually*. The option switches *cannot* be set electronically using the craft interface unit (CIU).

The 2-wire interface is a dry transformer-coupled circuit. There is no DC source or sink capability. The structural impedance is 900 ohms in series with 2.16 μ F. The impedance of the balance network is also 900 ohms in series with 2.16 μ F.

The AUA45() has no busy indicators. Transmission is always enabled unless the unit is either sending or detecting ringing. The unit detects either AC only or AC with DC superimposed ringing between 16 and 33 Hz. AC signals of greater than 40 Vrms across tip and ring will be recognized as a valid ringing signal. When originating ringing, the AUA45() will repeat the input timing of the ringing signal unless the ringing is tripped by a DC closure applied to tip and ring during the ringing interval.

When the AUA45() is used in a COT bank, that bank must be wired to a negative superimposed ringing source or the unit will not operate its ringing relay.

In a typical manual ringdown application, signaling is accomplished by pushing a button at the calling station which applies AC ringing voltage to the calling channel unit. The channel unit at the called end sends ringing to the called station.

The AUA45() is compatible with integrated network access-remote terminal (INA-RT) and Feature Packages C and D. The unit does not contain test detectors or test relays and is not testable using the pair gain test controller (PGTC) or extended test controller (XTC). The AUA45() appears *POTS like* when its slot is read by the CIU. The AUA45() is compatible with D4 2RD/PLAR channel units when used in the *ringdown/repeat input timing mode*. The AUA45B channel unit can be used in certain types of alarm service — those services that use transmission-only supervision and that use voice-frequency (VF) signals within the passband of the unit.

⇒ NOTE:

With only one of the AUA45() channels in service, the loss switch for the unused channel, at both the COT and RT, must be set to the -3 dB position (for example, -6 dB end-to-end loss). This prevents the unterminated channel from singing. All unterminated channels must be set for an end-to-end loss of 6 dB.

For testing purposes, the faceplate jack provides convenient access to the tip (T) and ring (R) of the odd (O) and even (E) channels.

The guidelines for selecting option settings for the AUA45() channel unit are provided in Customer Information Release (CIR) AT&T 363-099-063IR and in AT&T 915-710-116.

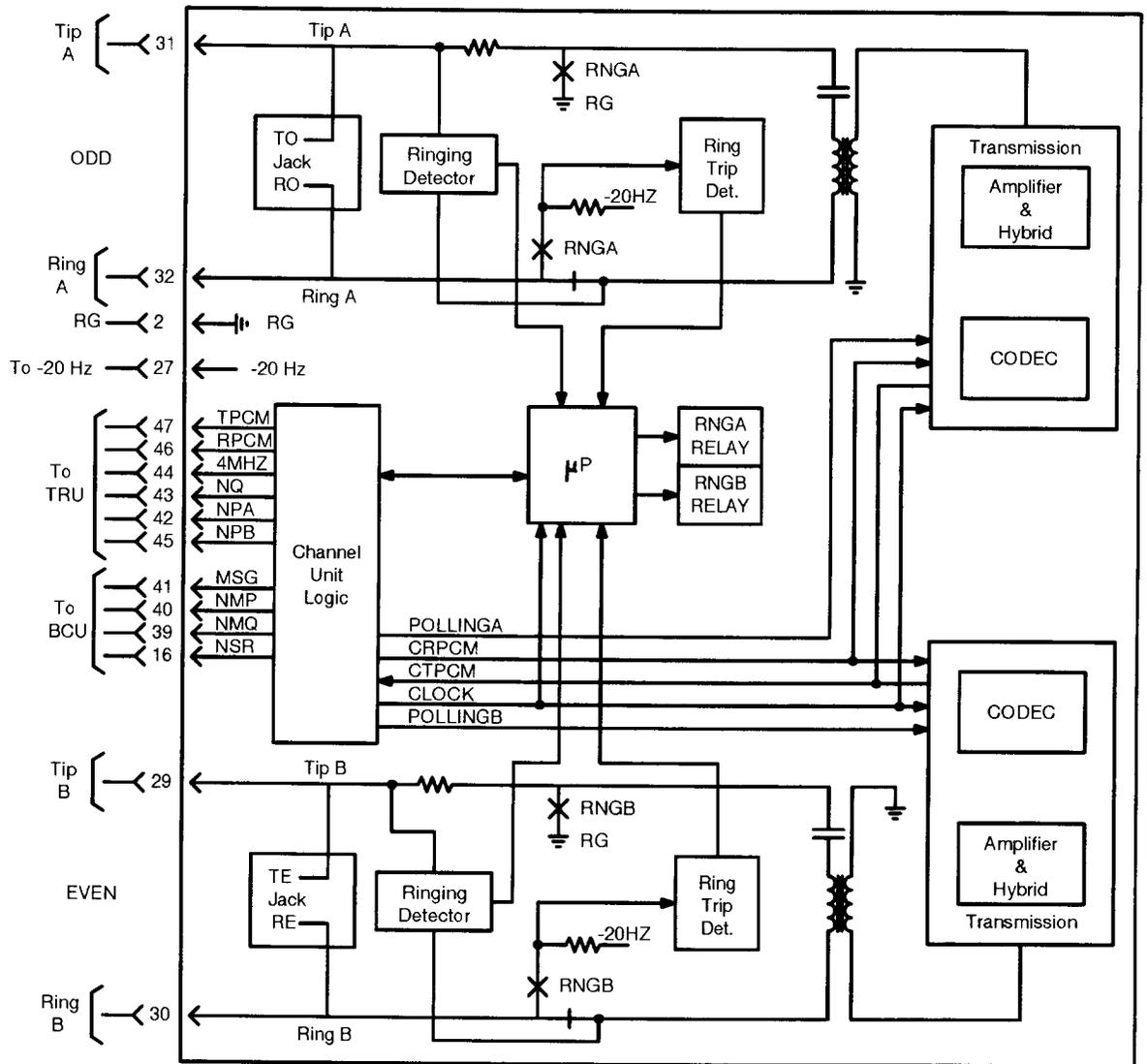


Figure 1. AUA45B Block Diagram

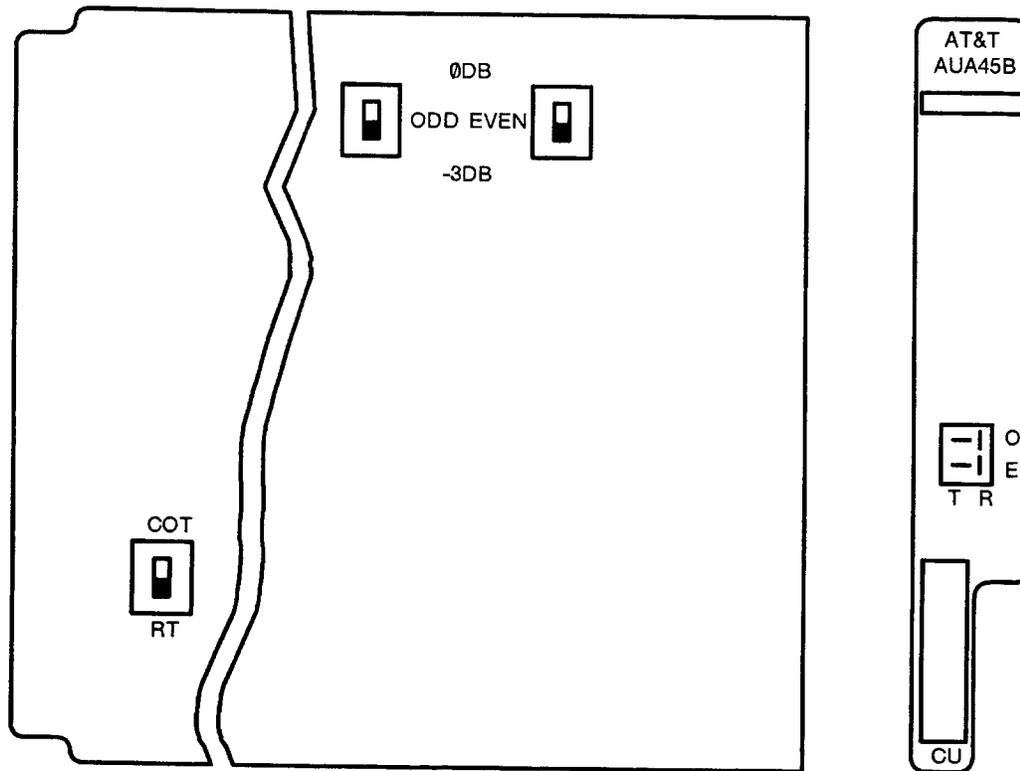


Figure 2. AUA45B Components and Faceplate

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC**.

Additional copies of this document (AT&T 363-005-123) are available from the Customer Information Center — call 1-800-432-6600.

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