

AUG3 RING CONTROL UNIT - 5SCBM00GXX

DATA SHEET

SLC[®] SERIES 5 CARRIER SYSTEM

The AUG3 RCU (ring control unit) (COMCODE 104032750) is used in the remote terminal ring shelf (J1C182BC) of a SLC Series 5 carrier system RT (remote terminal). In conjunction with two shelf mounted ringing generators, the RCU provides dual -20 Hz and +20 Hz ringing voltages, superimposed on a negative and a positive 55 volts dc, respectively.

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

One function of the AUG3 RCU is to provide output load switching for the negative ringing during failure of a ringing generator. A failure in either ringing generator will cause the output load to be switched to the other ringing generator. This switching is accomplished by driving two relays (K1 and K2) in the RCU. The two relays are operated as a function of two control signals (RGA_ALM and RGB_ALM) from the two ringing generators, respectively.

The AUG3 RCU contains two dc-dc power converters (DC1 and DC2) — each converter provides 110 volts. The 110 volts dc, from DC1 and DC2, are added in series with the output of the ringing generators to supply dual positive ringing signals. A failure in either power converter will cause its output load to be switched, by the detector and relay circuits, to the other power converter.

The AUG3 provides input and output fusing protection (F1 through F11), alarm LED indicators, and alarm output signals. Fuses F1 through F8 are 80G type, 0.5 amps, and provide output protection. These fuses are accessible from the faceplate and can be replaced in the field. Fuses F9 through F11 provide input protection — these fuses are *not* accessible for replacement in the field.

RMN (Yellow LED): When lighted, this LED indicates that an internal failure has caused a protective switch of an output load to another source. A MINOR alarm signal is transmitted to the SLC Series 5 carrier RT channel banks being supplied by the RCU.

RMJ (Red LED): When lighted, this LED indicates that one or more ringing outputs have failed — this could be caused by dual circuit failures or blowing of an output fuse. A MAJOR alarm signal is transmitted to the SLC Series 5 carrier RT channel banks being supplied by the RCU.

The faceplate jack provides convenient test access to the +20 Hz ringing sources (+20HZA and +20HZB), -48 Vdc input (-48V), and ground (GND).

DANGER: *The RCU has hazardous voltages present on the printed circuit and component sides of the board. Be careful when inserting and removing the circuit pack.*

Technical assistance for the SLC Series 5 carrier system can be obtained by calling the Regional Technical Assistance Center at 1-800-225-RTAC. This telephone number is staffed 24 hours per day.

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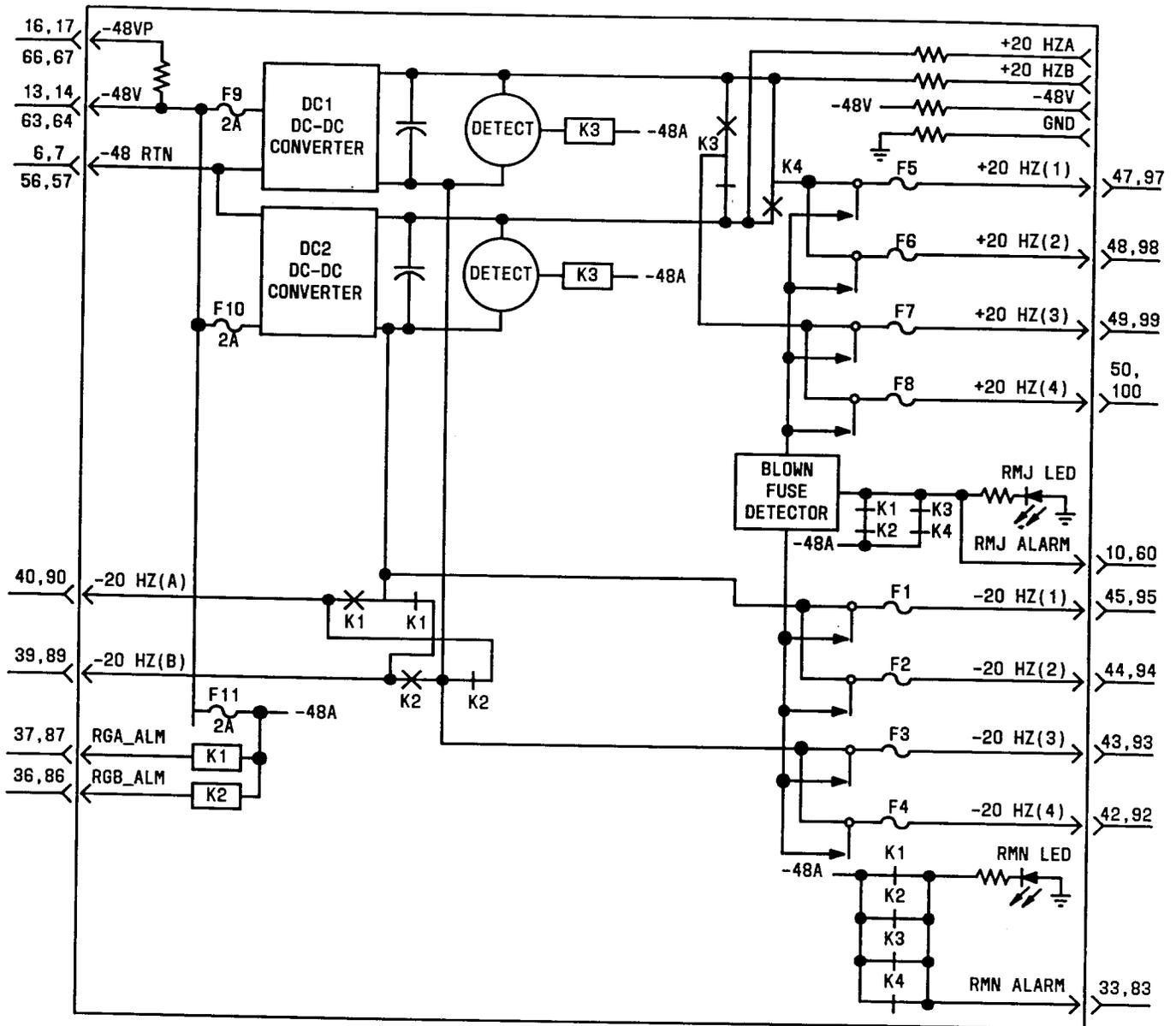


Figure 1—AUG3 Block Diagram

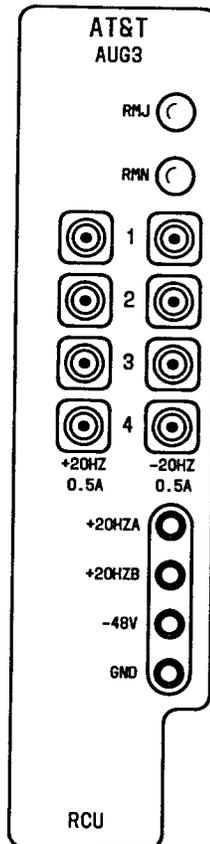


Figure 2—AUG3 Faceplate