

3C1 RINGING GENERATOR - 5SCB644XXX

DATA SHEET

SLC[®] SERIES 5 CARRIER SYSTEM

The 3C1 ringing generator (COMCODE 105727846) is used in the SLC Series 5 RT (remote terminal). The 3C1 is mounted in the J1C182BA power shelf, the J1C182BB bulk power shelf, or the J1C182BC ring shelf. This plug-in unit provides 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT.

This practice is reissued to add information on the 3C Series 2:2 and 3C1 ringing generators. The 3C Series 2:2 incorporates a Class A change to the 3C Series 1. This change prevents infrequent circuit failure during a manually initiated test of the unit. The change applies to all Series 1 units in the field, but no new Series 2:2 will be manufactured. The 3C1 code applies to new production. The 3C1 code has the Class A change and has UL* approval. The CLEI† codes and COMCODEs for these units are listed in TABLE A.

DANGER: *The ringing generator contains hazardous voltage when inserted into its slot.*

TABLE A RINGING GENERATOR CODES		
UNIT	CLEI CODE	COMCODE
3C S1 (DA)	5SCB640	105513584
3C S2:2 (DA)	5SCB642	106075138
3C1 S1	5SCB644*	105727846
* Some early 3C1 S1 units were coded 5SCB640DAB in error — these will be coded again by Bellcore.		

* Registered trademark of Underwriters Laboratories, Inc.
† Trademark of Bell Communications Research, Inc.

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

The 3C1 ringing generator contains a DC-DC converter that converts nominal -48 volts into those DC voltages needed for internal operations. The -48V input fuse is located in the 3C1 ringing generator. A 20-Hz reference circuit controls a power bridge arrangement to generate the 20-Hz ringing signal. Low-pass filtering is provided at the output of the power bridge to remove switching transients.

The 3C1 ringing generator can simultaneously ring 50 telephones. The 3C1 ringing generator supplies 20-Hz, 100V rms (up to 400mA rms) ringing superimposed on approximately -55V DC (up to 180 mA). The output is current limited to one ampere under short circuit conditions.

Control circuitry is provided to allow remote shutdown and delayed startup. Output signaling is provided to control a protection switch or other ring generator. An alarm lead signals failure to an external monitor.

FAIL (Red LED): This LED lights to indicate an alarm when the 20-Hz ringing voltage drops below approximately 60 volts for more than 5 seconds.

-48V, GND, -20HZ: Test jacks are provided on the faceplate — one for -48V DC, one for ground, and one for 20-Hz ringing.

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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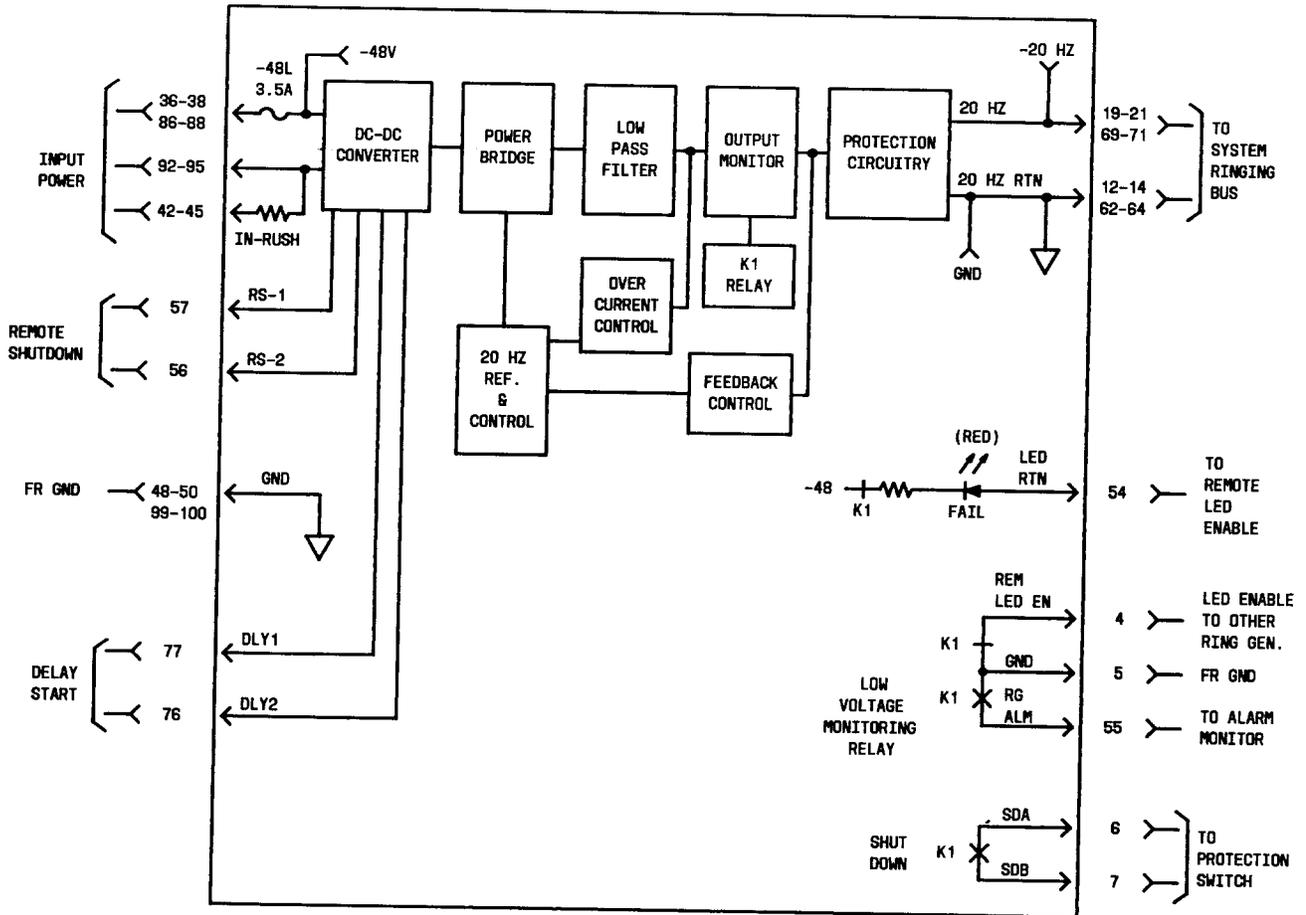


Figure 1—3C1 block diagram

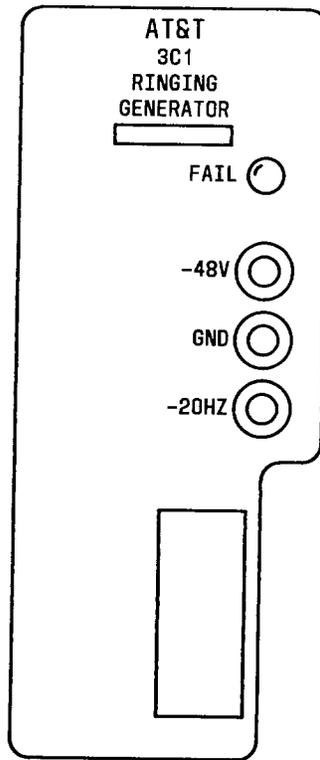


Figure 2—3C1 faceplate