



## TECHNICAL ADVISORY BULLETIN

Date: SEPTEMBER, 1988

Issue: TAB018

### 1A2 RINGING CONFIGURATIONS FOR VOICE EXPRESS TELEPHONE/MODULAR KEYSTRIP INSTALLATIONS

#### INTRODUCTION

The model VX41C Voice Express telephone, when configured with a modular 6-button or 10-button keystrip accessory is subjected to various ringing schemes provided by 1A2 systems. These schemes include:

- Matrix ringing
- Private line ringing

Matrix ringing requires the installer to move wires in a typical standard 1A2 key telephone to by-pass the ringing capacitor. This is a common practice in 1A2 installations.

The older model VX41B telephone simulated this capacitor by-pass routine by providing a 22K ohm resistor across the ringing circuit when the telephone was operated in the 1A2 mode. This arrangement was satisfactory for matrix ringing; however, it was not compatible with private line ringing. The current model VX41C telephone, does not include this resistor. Therefore, it performs properly with private line ringing but is not compatible with matrix ringing.

#### CONFIGURATION

##### Model VX41B Telephones

The model VX41B telephone and modular keystrip normally do not require any modification when used in applications where rectified ringing voltages (matrix ringing) are applied. Directions for use are provided in the modular keystrip installation instructions.

The model VX41B telephone and modular keystrip cannot be made compatible with private line ringing.

##### Model VX41C Telephones

The model VX41C telephone and modular keystrip are compatible with private line ringing when arranged as follows:

- Set MULTI/STD switch of model VX41C telephone to MULTI.
- Connect tip and ring of private line to B1 and R1 leads of station cable.
- Make connection at clip terminals 39 and 40 of appropriate 66-type connector block.

To make the model VX41C telephone compatible with matrix ringing, a resistor can be added to the modular 6-button and 10-button keystrip accessory (or at an appropriate 66-type connector block termination) per the instructions provided herein.

