T-BERD 224 Application

Signaling Monitor/Scan (Call Capture)

*The following procedure outlines how to use the T-BERD 224 to determine the signaling format used on specific channels to originate and/or terminate calls. Please read the entire procedure **BEFORE** starting.*

Part 1 – Configuring the T-BERD 224

Step	Switch	Action
1		Configure the T-BERD 224 according to the T-BERD 224 ***T1 Monitor Setup*** card.
2	CHANNEL FORMAT	Select **SIGNLNG**.
3	SOURCE CONFIGURATION I	Select **MONITOR** to monitor particular channel or select **SCAN** to scan all 24 channels for next active call.
3a	LINE 1 & LINE 2 CHANNELS	If **MONITOR** is selected: A. Select the T1 channel (**DS0**) to be monitored.
4	AUX	Press to access the auxiliary functions (LED **ON**).
5	MODE	Scroll to **AUX 24**. Select the appropriate trunk type (e.g., Loop Start, Ground Start, or E&M) using the **SOURCE CONFIGURATION II** switch (see WORD document or Circuit Description). Select the type of circuit equipment (e.g., SLC® office, SLC station, FXO, or FXS) to originate call using the **RESULTS II** blank switch. ***NOTE:*** *No selection for E&M trunks.*
6	MODE	If **SCAN** is selected: A. Scroll to **AUX 29**. Select ***CHAN 1↑/0↓** using the **SOURCE CONFIGURATION I** switch. This allows user to select DS0 channels to be scanned. A "1" indicates that channel is available to be scanned and a "0" indicates that it is not. B. Press the **RESULTS I** blank switch to move cursor to bit representing one of 24 channels. Press the **SOURCE CONFIGURATION II** switch up or down to change bit to a "1" or "0". ***NOTE: AUX 29** is **only** available for Rev. E or greater software.*
7	AUX	Press to exit the auxiliary functions (LED **OFF**).
8	SOURCE CONFIGURATION II	If **E&M** trunk type: A. Select **AUTO** to capture call originating from either **LINE 1** or **LINE 2**. If **Loop Start** or **Ground Start** trunk type: A. Select **ORIGINATE = LINE 1** or **ORIGINATE = LINE 2** depending on which side is originating call.
9	RESULTS II	Select **CHANNEL** category using the blank switch. Select **FULL SCREEN DISPLAY** using the arrowed switch.

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Part 2 – Performing the Test

Step	Switch	Action
1	RESTART	Press **RESTART** to clear alarms and begin the test.
2	KEYPAD	Once call is captured, use the right and left cursor arrowed switches on keypad to scroll through sequence. When cursor is under desired event, use the **RESULTS II** arrowed switch to view desired result.

Part 3 – Analyzing the Results

Step	Switch	Action

The following are examples of results for the various trunk types:

LOOP START	**H 3531550 h O o**			**1104 FQ/LVL**
	MONITOR	**ORG=L1**	**LS FXS**	**699/-9.5**
GROUND START	**G h H 3531550 O o**			**1100 DELAY**
	MONITOR	**ORG=L1**	**GS FXS**	**70 MS**
E&M	**H w KP 3531550 ST h O o**			**1101 DUR**
	SCAN	**auto**	**STD (E&M)**	**250 MS**

Supervision events are defined as follows:

Originate Supervision		**Terminate Supervision**	
G	Ground on Ring	h	off hook (ground on tip)
H	Off Hook	o	on hook
O	On Hook	w	wink
R	Ring	d	delay dial
M	Marginal Digit	t	dial tone

NOTE: *See* ***Part 2*** *on the T-BERD 224* ***Monitoring A/B Signaling Bits Application*** *card for definitions of the A/B Signaling bits.*

Section
SIG
User's Guide

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