The ON HOOK, OFF HOOK, and RINGING states of each channel are represented by the A and B signaling bits. Use the A and B signaling bits to identify whether the channel is active, idle, or stuck.

	]	ı Exchange	Digital Loop Carrier									
Loop Start	CO Transmits			Station Transmits			CO Transmits			Station Transmits		
Central Office (CO) calling Station (oORHo)	Indicator	A	В	Indicator	A	В	Indicator	A	В	Indicator	A	В
Idle (on hook)	0	0	1	0	0	1	0	1	1	0	0	0
Seizure: ringing from CO (see NOTE)	R	0	0		0	1	R	1	1/0		0	0
Station answers (off hook)/conversation		0	1	h	1	1		1	1	h	1	0
Station hangs up (on hook)		0	1	0	0	1		1	1	0	()	()

NOTE: The state of the ringing bit represents its state during the 2 second "ringing on" interval of the ringing cycle. During the 4 second silent interval of the cycle, the ringing bit returns to its idle state.

Loop Start (cont.)	CO Transmits			Station Transmits			CO Transmits			<b>Station Transmits</b>		
Station calling CO (oOHt#o)	Indicator	A	В	Indicator	Α	В	Indicator	A	В	Indicator	A	В
Idle (on hook)	0	0	1	0	0	1	0	1	1	0	()	()
Seizure: loop closure from station (off hook)		0	1	Н	1	1		1	1	H	1	()
Dial tone from CO (bits don't change)	t	0	1		1	1	t	1	l		1	0
Station sends digits/call established*		0	1	#	1	1		1	1	#	1	0
Conversation*		0	1		1	1		1	1		1	0
Station hangs up (on hook)		0	1	0	0	1		1	1	O	()	0
Ground Start												
CO calling Station (oOHRHboO)												
Idle/open tip from CO (on hook)	0	1	1	0	0	1	0	0	0	0	()	0
Seizure: ground on tip from CO (off hook)	Н	0	1		0	1	Н	0	1/0		()	0
Ringing from CO (see NOTE)	R	0	0		0	1	R	1	1/0		()	0
Station answers (off hook)/conversation		0	1	h	1	1	H	0	1/0	h	1	0
Station hangs up (on hook)		0	1	0	0	1		0	1/0	0	0	0
CO hangs up/open tip from CO (on hook)	0	1	1		0	1	0	0	0		()	0
Station calling CO (oOGbHt#Oo)												
Idle/open tip from CO (on hook)	0	1	1	0	0	1	0	0	0	0	0	0
Seizure: ground on ring from station		1	1	G	0	0		0	0	G	0	1
Ground on tip from CO (on hook)	h	0	1		0	0	h	0	1/0		0	1
Station removes ring ground, closes loop (off hook)		0	1	H	1	1		0	1/0	Н	1	0
Dial tone from CO*	t	0	1		1	1	t	0	1/0		1	0
Station sends digits/call established*		0	1	#	1	1		0	1/0	#	1	0
Conversation*		0	1		1	1		0	1/0		1	0
Station hangs up (on hook)		0	1	0	0	1		0	1/0	0	()	0
CO hangs up/open tip from CO (on hook)	0	1	1		0	1	0	0	0		0	0
Wink Start							Key			Supervision		
PBX calling CO (oOHw#hOo)**									Grou Off H	ind on Ring		
Idle (on hook)	0	0	0	0	0	0		0	On H			
Seizure (off hook)		0	0	Н	1	1		R	Ring			
Wink from CO	W	1	1		1	1				Supervision		
PBX transmits digits*		0	0	#	1	1		h off hook (ground on tip) o on hook				
CO answers/call established	h	1	1		1	1		w	wink			
Conversation*		1	1		1	1		t	dial t			
PBX hangs up (on hook)		1	1	0	0	0		# 1/0	digits	s ing bits		
0.01								1/U	- roggi	mg pns		

**NOTE:** The state of the ringing bit represents its state during the 2 second "ringing on" interval of the ringing cycle. During the 4 second silent interval of the cycle, the ringing bit returns to its idle state.

CO hangs up (on hook)

toggling bits bits don't change

"CO calling PBX" works the same way

The "Indicator" section represents indication on T-BERD 224.

