

CS300A1 CIRCUIT MODULE
(CUSTOM CALLING CONVENIENCE CARTRIDGE)
"GENESIS*" TELESYSTEM
IDENTIFICATION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.01 This section contains information for the CS300A1 circuit module (Fig. 1), which is used to provide the hardware and software for adding custom calling services (CCS), and expanding the current features of the basic GENESIS telesystem.

1.02 Whenever this section is reissued, the reasons for reissue will be listed in this paragraph.

1.03 This module is designed for PhoneCenter Store distribution and customer installation, and is for sale to the customer in its entirety.

2. IDENTIFICATION

2.01 The CCS circuit module provides a SHIFT function, CALL WAITING, 3-WAY CALLING, and CALL FORWARDING described in the following paragraphs.

A. Shift

2.02 The Shift button, when momentarily depressed, provides access for the upper portion of the dual function buttons which are designated by color (dark for the lower and light for the upper portion of the button). This button provides six additional repertory dialing locations, and the following three additional features.

B. Call Waiting

2.03 The Call Waiting feature is activated by momentarily depressing the Call Waiting button when a call is already in progress, and after the call waiting tone is heard. This will place the first call on

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hold and allow the second (incoming) call to be answered. The prompt "CALL WAITING" appears in the display as a reminder of the call on hold. By momentarily depressing the Call Waiting button again, reconnection is made to the first call and the second call is placed on hold. Subsequent momentary depressions of the Call Waiting button will alternate between the two calls. When the call is terminated by the calling party, momentary depression of the Clear button will remove the prompt reminder from the display.

C. 3-Way Calling

2.04 Three way calling consists of adding a third party to a 2-party conversation. This is accomplished by first momentarily depressing the Shift button and then the 3-Way Calling button during an already established 2-party conversation. Depression of the 3-Way Calling button will cause the prompt "ENTER THIRD NUMBER" to appear in the display. The third number may be any number stored (excluding save/send) or one manually entered (number appears in display). If the number is manually entered and an error is made prior to the last digit, momentary depression of the Clear button will return the display to "ENTER THIRD NUMBER" and the correct number may then be entered.

2.05 After the software in the basic set has determined the third number is complete, the first party of the 2-party conversation is put on hold and the number for the third party is automatically dialed. After completion of dialing, "CALL ANSWERED?" appears in the display. An affirmative answer (momentary depression of the *YES button) will cause the prompt "FOR 3-WAY PRESS*" to be displayed. Momentary depression of the *YES button will connect all three parties. A negative response reconnects the first party and the original 2-party conversation may be resumed.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

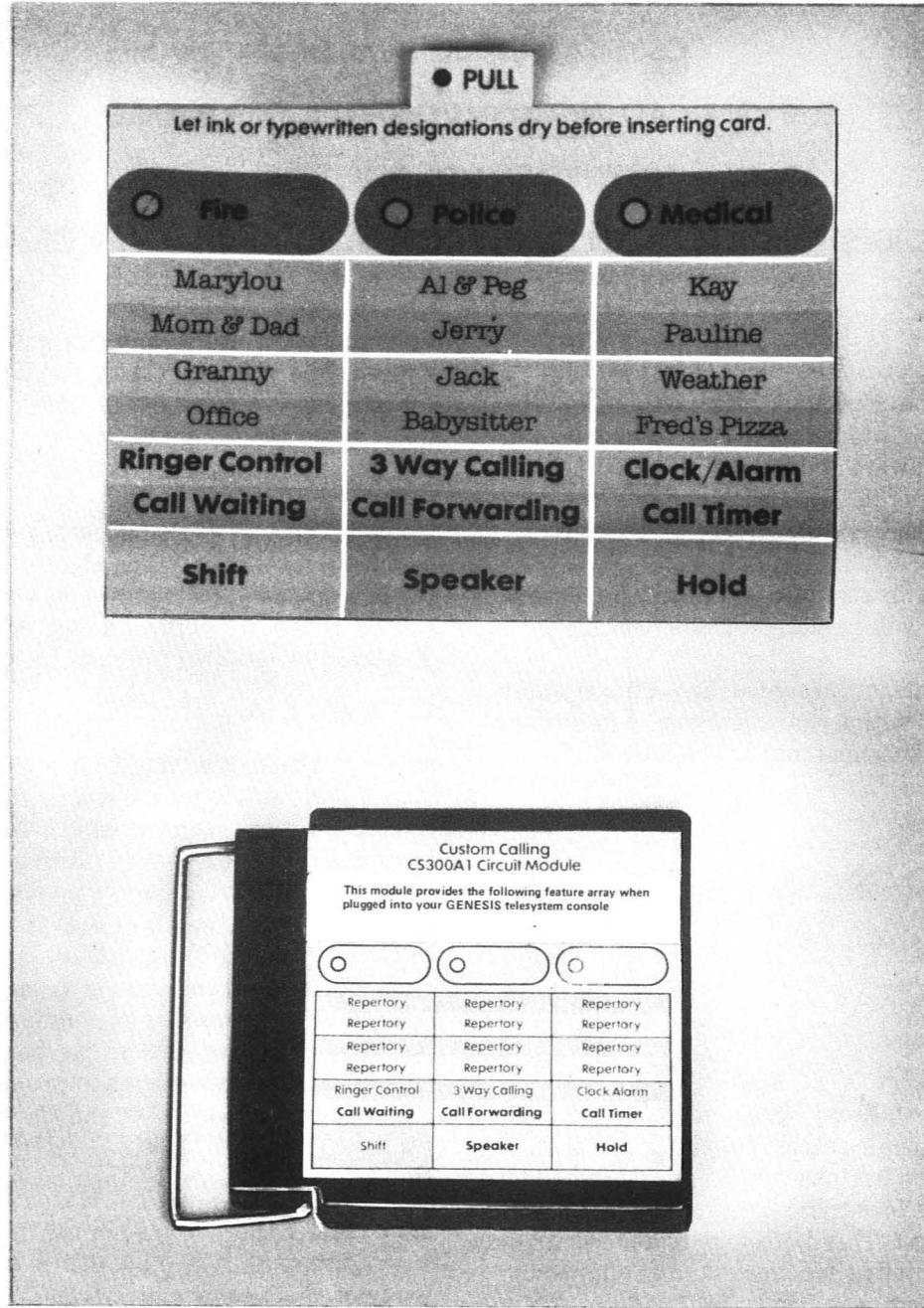


Fig. 1—CS300A1 Circuit Module and Associated Designation Strip

D. Call Forwarding

2.06 Call forward is used to forward incoming calls from one location to another. This feature is activated from the basic set by momentarily depressing the Call Forwarding button which will cause "ENTER NUMBER" to appear in the display. The

forwarding number may be any number stored in the set (excluding the save/send number) or a number manually entered. If the number is manually entered and an error is made prior to the last digit, momentary depression of the Clear button will return the display to "ENTER NUMBER" and the correct number may then be entered.

2.07 After the software in the basic set has determined the number is complete, the number is automatically dialed and "CALL ANSWERED?" appears in the display. After the called number has been physically answered, by momentarily depressing the *YES button (remaining off-hook for 4 seconds) call forwarding is established. The prompt "FORWARDING IN EFFECT" appears in the display for 5 seconds which verifies call forwarding is in effect.

2.08 If the number dialed is not physically answered, momentary depression of the #NO button returns the set to dial tone and the prompt "PLEASE WAIT" and then "STILL WANT FWDING?" will appear in the display. Momentary depression of the *YES button will cause the set to redial the forwarded number and the prompt "FORWARDING IN EFFECT" will appear in the display to confirm the call forwarding feature.

2.09 Call forwarding also has an associated on-hook status prompt, "FORWARDING IN EFFECT", when it is active. By going off-hook and pressing Call Forwarding, the prompt "CANCEL FORWARDING?" will be displayed. Momentary depression of the *YES button will return the set to the normal off-hook state.

Note: There is a possibility of the basic set being out of agreement with the central office (CO), i.e., the basic set being in the call forwarding mode and the CO is not, or the CO in the call forwarding mode and the basic set is not. An example of this happening is when call forwarding is cancelled from a different telephone set, (other than the basic set) or through a possible

button depression error during establishment of the call forwarding feature. An indication of this situation is when a fast busy signal is heard (120 IPM) during the establishment or canceling of the call forwarding feature. For corrective measures refer to paragraph 4.01C.

3. INSTALLATION

3.01 The circuit module plugs directly into the console. The end cap on the left side of the set is first removed, revealing the module receptacle (Fig. 2). The module is then pushed into the receptacle where contacts in the basic set make electrical contact with the module. After the module is fully inserted, replace the cap and the set is fully operational. Removal of the module is accomplished by reversing this procedure.

Designation Card Installation and/or Replacement

3.02 Remove the lens frame by lifting the top of the lens frame as shown in Fig. 3. Remove the designation card by pulling the tab marked PULL outward from the set (Fig. 3). Slide the new designation into the area vacated and replace the lens frame.

4. MAINTENANCE—SYSTEM CHECKOUT

4.01 The following procedures are a complete check of all features the CCS circuit module provides and will determine the probable defective component in the event of a failure.

Note: Component replacement consists of replacing the CCS circuit module or the entire basic console.

A. Call Waiting Test

STEP	ACTION	VERIFICATION
1	Establish a test call conversation and make arrangements for a third party to call while the test call conversation is in progress.	



Fig. 2—Circuit Module Installation (Console)

STEP	ACTION	VERIFICATION
2	After the call waiting tone is heard, momentarily depress the Call Waiting button.	“CALL WAITING” appears in the display and the original call is placed on hold allowing conversation with the incoming call.
3	Momentarily depress the Call Waiting button.	The incoming call (second call) is placed on hold allowing conversation with the original test call.
4	When the conversation is terminated by the second calling party, momentarily depress the Clear button.	“CALL WAITING” is extinguished.
5	Replace handset.	

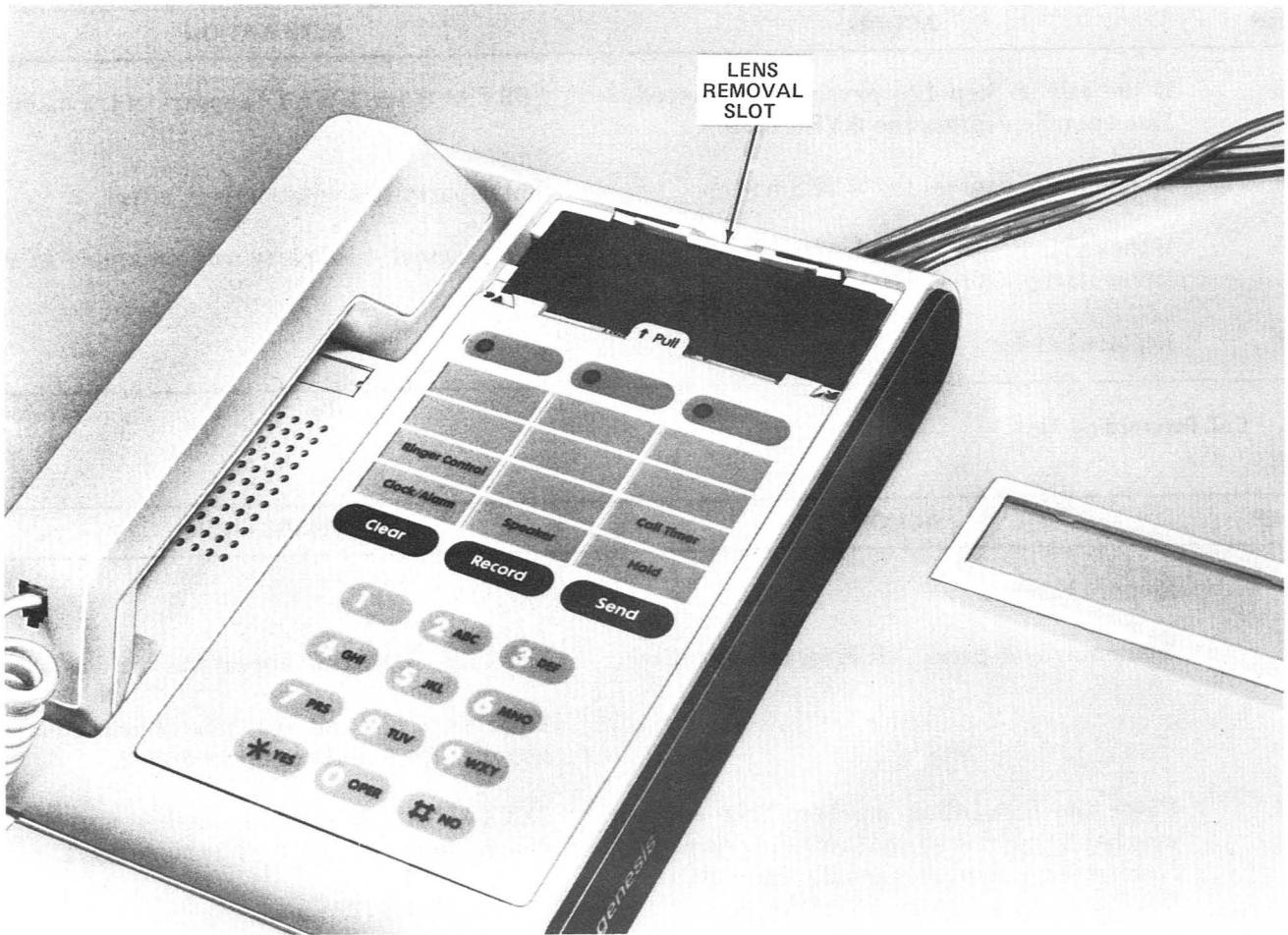


Fig. 3—Designation Card Replacement

B. 3-Way Calling Test

STEP	ACTION	VERIFICATION
1	Establish a test call conversation.	
2	Momentarily depress the Shift button.	
3	Momentarily depress the 3-Way Calling button.	"ENTER THIRD NUMBER" appears in the display.
4	Enter the third number. This number may be any number stored (excluding save/send number) or a number manually dialed.	"CALLING" appears in display for one second. "XXXXXXX" called number appears in display and is automatically dialed. After the third party answers, "CALL ANSWERED?" appears in the display.

STEP	ACTION	VERIFICATION
5	If the call in Step 4 is physically answered— Momentarily depress the *YES button.	“PRESS * for 3-WAY” appears in the display.
6	Momentarily depress the *YES button.	Three party conversation is in effect.
7	If the call in Step 4 is not physically answered— Momentarily depress #NO button.	The original two party conversations is resumed.
8	Replace handset.	

C. Call Forwarding Test

STEP	ACTION	VERIFICATION
1	Remove handset.	
2	Momentarily depress Call Forwarding button.	“ENTER NUMBER” appears in the display. <i>Comment:</i> If a fast busy tone is heard, manually dial 73# and then repeat Step 2.
3	Enter the forwarding number. This number may be any number stored (excluding save/send number) or a number manually entered.	“XXXXXXX” forwarding number appears in display (manually entered number only). “PLEASE WAIT” appears in the display. “CALLING” appears in display for 1 second. “XXXXXXX” forwarding number appears in the display. “CALL ANSWERED?” appears in the display.
4	If the call is physically answered— Momentarily depress the *YES button in answer to Step 3 (CALL ANSWERED? display).	“FORWARDING IN EFFECT” appears in the display for 5 seconds. “XXXXXXX” called number appears in the display.
5	If the call is not physically answered— Momentarily depress the #NO button in answer to Step 3 (CALL ANSWERED? display).	“PLEASE WAIT” and then “STILL WANT FWDING?” appears in the display.
6	Momentarily depress *YES button.	“PLEASE WAIT” then “CALLING” appears in display for 1 second. Then “XXXXXXX” called number appears in display. Then “FORWARDING IN EFFECT” appears in the display for 5 seconds. “XXXXXXX” called number appears in display.

STEP	ACTION	VERIFICATION
7	Replace handset.	
8	To cancel call forwarding.	
9	Remove handset.	
10	Momentarily depress Call Forwarding button.	“CANCEL FORWARDING” appears in the display. <i>Comment:</i> If a fast busy tone is heard, manually dial 73# and repeat Step 10.
11	Momentarily depress *YES button.	“PLEASE WAIT” appears for approximately 5 seconds (on dial-pulse only) then “FORWARDING CANCELLED” appears in display for 5 seconds.