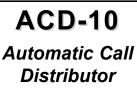




TELECOM SOLUTIONS FOR THE 21ST CENTURY



April 16, 2002

Now Every Call Center and Small Business Can Afford a Fully Featured Call Distributor



The ACD-10 is a stand alone call distributor that will distribute calls from up to 10 incoming C.O./PABX lines to up to 6 individual agents.

Calls will be distributed by either ACD (Automatic Call Distributor), UCD (Uniform Call Distributor), hunt group or ring group protocols.

If an agent is not available, the ACD-10 can be programmed to answer calls, play an announce-

ment, and place the call on hold for the first available agent. Custom ringing indicates to the agent that the call has been answered by the ACD-10.

Basic phone system features are also provided by the ACD-10 such as transfer, paging, intercom, 3-way calling, as well as a RS-232 call statistics output.

Features -

- ACD, UCD, hunt group and ring group protocols
- Does not require a KSU, PABX, ring generator or remote displays
- Three custom recordings stored in non-volatile memory (no batteries required):
 - Day Greeting
 - Pacifier Message
 - Night Greeting
- Call screening option
- Custom ringing
- Intercom, transfer, camp-on and 3-way calling
- · Night mode
- Local and remote recording
- · Detects and regenerates CPC signals
- Directed call pick-up
- Statistics available through RS-232 port
- · Carbon handset for local recording included
- Expandable to 10 agents
- Optional manager's display available

Applications

- Call centers
- Sales departments
- Field service departments
- Technical support departments
- Small businesses

Phone...715.386.8861

Specifications

Power: 120V AC/15V AC 2.2A, UL listed adapter provided Dimensions: 483mm x 305mm x 44mm (19" x 12" x 1.75") Shipping Weight: 3.4 kg (7.5 lbs) Environmental: 0° C to 32° C (32° F to 90° F) with 5% to 95% non-condensing humidity Station Loop Length: 1.5 km (5000 ft) maximum at 24 awg twisted pair Station Talk Battery Voltage: 40V DC 26mA Station Ring Voltage: 90V AC @ 20 Hz (nominal) Hookswitch Flash Timing Range: 150ms - 900ms Internal Digital Announcer/Recorder: 1 Message Lengths: Day message - 30 seconds, Night message - 60 seconds, Pacifier message - 10 seconds Announcement Sampling Rate: 64K (equivalent) Intercom Paths: 2 Dial Tone with DTMF Receiver: 1 Camp-On Calls: Up to 2 calls per station Audio Loss: 2 dB from trunk to station Connections: (1) RJ-21X female jack, (2) 3.5mm (1/8") audio jacks, (1) carbon handset jack, (1) 9-pin RS-232 jack



Definitions

ACD: (Automatic Call Distributor) Distributes inbound calls to the next available or longest idle agent so that agents are more likely to get a similar amount of "break" delay time.

Blind Transfer: To transfer a call to another agent without telling the agent who's calling.

Break Delay Time: The time an agent has after completing a call to "catch their breath".

Camp-On: Allows an agent to lock a call onto a station that is busy. When that stations becomes available, the call will ring it automatically.

Directed Call Pick-Up: An agent picks up another agent's ringing or parked call.

Hunt Group: Distributes inbound calls so that Agent #10 receives the most calls. Agent #11 receives calls only if Agent #10 is busy, and so on;

Agent #15 is least likely to receive an inbound call.

MOH: (Music-On-Hold) The audio source that "calls on hold" hear while waiting for an available agent.

Night Mode: Calls are answered, given the "Night" announcement and dropped or not answered at all (selectable).

Ring Group: Rings all available agent's phones and the first agent to pick up, gets the call.

Security Code: A six-digit number must be used to access the programming mode.

Supervised Transfer: To transfer a call to another agent by first conversing with the agent, then hang-up to give them the call.

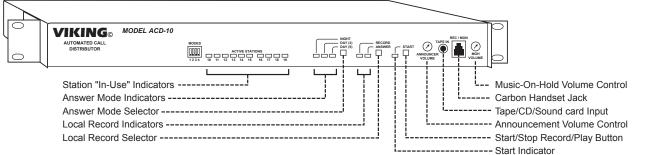
UCD: (Uniform Call Distributor) Distributes inbound calls so that each agent receives approximately the same number of calls.

Installation MIPORTANT: Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that

RJ-21X LINE IN/STATION OUT Viking Electronics, Inc Hudson, WI 54016 **Rear View of** SERIAL PORT MODE 13.8VA the ACD-10 ۲ ۲ ۲ φφ ••••••••••• MOH IN BACKGROUND 6 Agent Stations (expandable to 10) Computer RJ21X Male Jack Remote (not included) Niaht Mode Switch For Statistics 15V AC Adapter Included \square **Punchdown Terminal** Paging Block with Split Center C.O. Lines Background (not included) 1-10 Music Source 000 00 === Siemans # 566B3-50 Marconi # R66B3-50 WINNINNN VIKING MODEL M15W • 0 $\overline{(0)}$ VIKING ELECTRONICS PAGING POWER AMPLIFIER 8 Optional Paging System ត្រៃភិភំ Row 1 Row 2 Row 3 Row 4 (M15W not included, Stations ACD-10 ACD-10 CO Lines Fax Back Doc 481) Station 10T 26 W/BL 41 Y/BL Trunk 1T Station 10R BL/W 16 BL/Y Trunk 1R 1 Station 11T 27 W/O 42 Y/O Trunk 2T Station 11R 2 O/W 17 O/Y Trunk 2R VIKING MODEL DVA-2W M Station 12T 28 W/G 43 Y/G Trunk 3T 18 G/Y Station 12R 3 G/W Trunk 3R 29 W/BN Station 13T 44 Y/BN Trunk 4T **Optional Music/Promotion** Station 13R Trunk 4R 4 BN/W 19 BN/Y On Hold Source (DVA-2WA not included, Trunk 5T Station 14T 30 W/S 45 Y/S Fax Back Doc 110) Station 14R 5 S/W 20 S/Y Trunk 5R Station 15T 31 R/BL 46 V/BL Trunk 6T Station 15R Trunk 6R 6 BL/R 21 BL/V Station 16T 32 R/O 47 V/O Trunk 7T Expansion Station 16R 7 O/R 22 O/V Trunk 7R Station 17T 33 R/G 48 V/G Trunk 8T **Optional LM-24D** LINE 1 LINE 2 STATION 10 STATION 11 Display (not included) Trunk 8R Station 17R 8 G/R 23 G/V Station 18T 34 R/BN 49 V/BN Trunk 9T STATION 13 Optional LINE 3 LINE 4 STATION 12 Station 18R 9 BN/R Trunk 9R 24 BN/V LINE 5 STATION 15 LINE 6 STATION 14 Station 19T 35 R/S 50 V/S Trunk 10T Note: Trunk 10 must be LINE 7 LINE 8 STATION 16 STATION 17 25 S/V Trunk 10R Station 19R 10 S/R called directly to access LINE 10 LINE 9 Not 36 BK/BL STATION 19 remote programming. STATION 18 Bridged Used 11 BL/BK DAY (3) MODE DAY (5) MODE LM-24D T 37 BK/O VIKING LINE STATUS MONITOR LM-24D LM-24D R 12 O/BK Important: This connection is polarity sensitive. If the display does not function properly, reverse polarity. Bridged

a surge protector be installed to protect against such surges. Contact Panamax at (800) 472-5555 or Electronic Specialists Inc. at (800) 225-4876.

Programming



B. DIP Switch Programming

Sw 1	Sw 2	Sw 3	Sw 4	Description	
OFF	OFF	n/a	n/a	ACD Operation	MODES
OFF	ON	n/a	n/a	UCD Operation	
ON	OFF	n/a	n/a	Hunt Group Operation	
ON	ON	n/a	n/a	Ring Group Operation	
n/a	n/a	OFF	n/a	Normal mode: Answers call if agent does not answer within 3-5 rings (programmable).	
n/a	n/a	ON	n/a	Call screening mode: Answers	all calls and plays message before calls ring through to agent.
n/a	n/a	n/a	OFF	No calls answered in the "night mode". (line 10 will answer after 10 rings for remote programming)	
n/a	n/a	n/a	ON	Calls are answered, given the	night announcement and dropped when in the "night mode".

C. Security Code

A six-digit number must be used to access the programming mode. The security code has been factory set to **845464** (V-I-K-I-N-G). It is recommended that you change the security code to a personal six-digit number as follows:

Step 1.	Access programming as shown in section D below.		
Step 2.	Enter your new security code, followed by "#47".		
Note: The security code must be six-digits in length and cannot contain a * or # .			

D. Accessing the Programming Mode

 Step 1.
 Call into line 10 using a Touch Tone phone.

 Step 2.
 When answered by an attendant, enter a *. If answered by the ACD-10, press and hold * until the message stops.

 Step 3.
 When the recording stops, enter the six digit security code. A double beep should be heard.

E. Recording and Playback

Note: Keep recorded announcements short. The **ACD-10** cannot answer additional calls while any announcement is playing. **1. Local**

Local				
Step 1.	Plug the supplied carbon handset into the REC/MON jack or plug a tape player into the TAPE IN jack (see diagram).			
Step 2.	Select the record mode by pressing the RECORD/ANSWER switch until the LED light indicates the record mode is selected (see diagram above)			
Step 3.	Select the announcement to be recorded (Answer Greeting, Pacifier or Night) by pressing the NIGHT/DAY(3) / DAY(5) button until the LED indicates the desired announcement (see diagram above).			
	NIGHT - Night message (up to 60 seconds) DAY(3) - Answer greeting message (up to 30 seconds) DAY(5) - Pacifier message (up to 10 seconds)			
Step 4.	Momentarily press the START switch and begin talking into the handset or press play on the tape player. A hand- set may be used to monitor.			
Step 5.	When finished recording, momentarily press the START switch. Playback is automatic.			
Step 6.	Record the remaining announcements by repeating steps 3-5.			
Step 7.	Place ACD-10 back into the answer mode when local recording is complete.			

2. Remote

Step 1.	Enter programming as shown in section D above.
Step 2.	Enter * then 1,2 or 3 to record the (1) "Pacifier", (2) "Greeting" or (3) "Night" announcement.
Step 3.	Wait for the tone, then begin recording.
Step 4.	Press "#" to stop recording. Playback is automatic.
Step 5.	Record the remaining announcements by repeating steps 2-4.
Step 6.	Enter * then 4, 5 or 6 to review the (4) "Pacifier", (5) "Greeting" or (6) "Night" announcement again.

F.	Quick Programming Guide	Enter Digits	then	Memory Location
	Security code (factory set to 845464)	6 digits	then	#47
	Pacifier delay time in seconds (000-250, factory set to 60 seconds)	3 digits	then	#41
	Break delay time in seconds (000-250, factory set to 15 seconds)	3 digits	then	#42
	Hold alarm time, in minutes (00-99, factory set to 2 minutes)	2 digits	then	#43
	Station ring limit (01-99, 00 disables, factory set to 10 rings)	2 digits	then	#44
	Set all programming features to factory settings (including security code)			
	Set statistics data output to tab delimited ASCII text format	**2		
	Set statistics data output to space delimited ASCII text format			
	Set statistics data output to column format (factory setting)	**4		
	Record pacifier on hold announcement			
	Record answer announcement			
	Record night announcement			
	Playback pacifier announcement			
	Playback answer announcement			
	Playback night announcement	*6		
	Select standard DAY (5) (auto-answers after 5 rings)			
	Select standard DAY (3) (auto-answers after 3 rings)			
	Select NIGHT mode			
	Set the time and date		MMYY	then #40

Note: mm = Minutes, hh = Hours (24-hour), DD = Day, MM = Month, YY = Year

G. Pacifier Delay Time (factory set to 60 seconds)

The time in seconds a call waits on hold between hearing the pacifier announcement can be programmed from 1 second (enter 001) to 250 seconds (enter 250). Enter 000 to disable the pacifier message (see example below).

To Program the ACD-10		Step 1 - See Programming section D	Step 2 - Enter Digits
[to a pacifier delay time of 90 seconds	Enter Programming	090#41
to disable the pacifier message		Enter Programming	0 0 0 # 4 1

H. Break Delay Time (factory set to 15 seconds)

The time in seconds an agent has after completing a call to "catch their breath" and finish paper work before receiving another call. **Note:** Camped-on calls will ring in immediately without a break delay time.

To Program the ACD-10	Step 1 - See Programming section D	Step 2 - Enter Digits	
to a break delay time of 30 seconds	Enter Programming	0 3 0 # 4 2	
to disable the break delay time	Enter Programming	0 0 0 # 4 2	

J. Remote Mode Selection

When in programming, one of the three answer modes may be selected.

To Program the ACD-10	Step 1 - See Programming section D	Step 2 - Enter Digits
to be in the DAY(5) mode	Enter Programming	* 7
to be in the DAY(3) mode	Enter Programming	* 8
to be in the NIGHT mode	Enter Programming	* 9

K. Hold Alarm Time (factory set to 2 minutes)

The hold alarm time only needs to be set if the LM-24D Display Module is used for monitoring line and station activity. When a call is on hold for longer that the programmed hold alarm time, it will be displayed as a fast flashing line and the LM-24D will produce a warble tone. While in programming, enter 2 digits (representing the time in minutes) followed by #43.

To Program the ACD-10	Step 1 - See Programming section D	Step 2 - Enter Digits	
to have a hold alarm time of 4 minutes	Enter Programming	04 # 4 3	
to disable the hold alarm time	Enter Programming	0 0 # 4 3	

L. Station Ring Limit

If a station rings (inbound or transferred C.O. call) un-answered and the ring limit is met, the station will be marked "unavailable" and the call will be sent to another agent. Calls will no longer be sent to that station until it is manually made "available" again. The station ring limit is factory set to 10 rings. While in the programming mode, enter **2 digits** (number of rings) followed by **#44**.

To Program the ACD-10	Step 1 - See Programming section D	Step 2 - Enter Digits
to set the station ring limit to 8	Enter Programming	08#44
to disable the station ring limit	Enter Programming	0 0 # 4 4

M. Time and Date

The time and date only need to be set if the serial RS-232 port is used to collect detailed call activity data. This allows each call record to be stamped with the proper time and date. When in programming follow the steps shown at the right.

Operation-

To Program the Date and Time of the ACD-10	Enter Digits:
Minutes (mm)	2 digits (00 - 59)
Hours (hh) Note: 24 hour clock.	2 digits (00 - 24)
Date (DD)	2 digits (01 - 31)
Month (MM)	2 digits (1 - 12)
Year (YY)	2 digits (01 - 99)
Enter string in the memory location	m m h h D D M M Y Y # 4 0

A. Protocols

- 1. ACD Protocol (Automatic Call Distributor) The ACD-10 distributes inbound calls to the next available or longest idle agent so that agents are more likely to get a similar amount of "free" time between calls. Calls answered by the ACD-10 will be indicated by a custom double ring cadence.
- 2. UCD Protocol (Uniform Call Distributor) The ACD-10 distributes inbound calls so that each agent receives approximately the same number of calls. Calls answered by the ACD-10 will be indicated by a custom double ring cadence.
- 3. Hunt Group Protocol The ACD-10 distributes inbound calls so that Agent #10 receives the most calls. Agent #11 receives calls only if Agent #10 is busy, and so on up the line so that Agent #15 is least likely to receive an inbound call. Calls answered by the ACD-10 will be indicated by a custom double ring cadence.
- 4. Ring Group Protocol The ACD-10 will ring all available agent's phones, the first agent to pick up, answers the call.

B. Day Mode (see DIP Switch Programming, section B)

In the **DAY(3)** or **DAY(5)** mode of operation, the **ACD-10** will send inbound calls to the agents based on the selected protocol (above). Agent's phones will ring in a standard cadence indicating a new call. If the call is not answered by an agent within three rings (**DAY(3)** mode) or five rings (**DAY(5)** mode), the **ACD-10** will answer the call, play the "Answer Greeting" announcement, then place the call on hold. The agent's phone will now ring in a double ring cadence indicating that the call is on hold. If call screening is selected (DIP switch 3 **ON**), all calls are answered and given the "Answer Greeting" announcement. Then the **ACD-10** will send the inbound calls to the agents based on the selected protocol. In the call screening mode, ring delay is changed to one ring for **DAY (3)** or two rings for **DAY (5)**.

While calls are on hold, a pacifier announcement will be played based on a timed interval (factory set to 60 seconds). If a station rings past the station ring limit (factory set to 10 rings) it is automatically marked as "unavailable" and the call is sent to another agent. No other calls will be sent to that agent, until it is manually made available again.

C. Night Mode (see DIP Switch Programming, section B)

In the **NIGHT** mode, calls will be answered, given the "Night" announcement and dropped (DIP switch 4 **ON**). Alternatively, in the **NIGHT** mode, no calls are answered (DIP switch 4 **OFF**). There are three ways to put the **ACD-10** into the night mode: **1.** From remote programming **2.** From the front panel. **3.** By providing a hard contact closure (remote night switch) to the remote night mode screw terminals (back panel).

Note: The remote night mode switch has priority, so when it is used (contact closed), the **ACD-10** displays this as a blinking **NIGHT** LED and the **ACD-10** can only be removed from the night mode by opening the closure.

When the **NIGHT** mode is activated, calls connected to agents or camped-on to agents will remain, but calls waiting on hold for an available agent will be given the "Night" announcement and dropped.

D. Station Features

The **ACD-10** is designed to function as an efficient inbound call distributor. Many PABX type features are offered, but there is not the ability for multiple agents to access intercom dial tone at the same time. If a busy signal is given to an off-hook phone, intercom dial tone is not available. Hang up and try again a few seconds later.

1. Station Unavailable - To prevent incoming and transferred calls from ringing that phone:

Step 1	Step 2	Step 3
Go off-hook on the desired station	Enter " 681 "	Hang up

While a station is marked as unavailable, stutter dial tone is given to that phone. From power-up, all the stations are automatically made unavailable, and do not appear on the optional **LM-24** display. Use the station available code (see below) to activate the required stations from power-up.

2. Station Available - To allow incoming and transferred calls to ring to that phone:

Step 1	Step 2	Step 3
Go off-hook on the desired station	Enter " 682 "	Hang up

3. Directed Call Pick Up - To pick up a particular agent's parked/ringing call (not available in Ring Group mode or camped-on calls):

Step 1	Step 2	Step 3
Go off-hook	Enter "#"	Enter agent's station number (10-15)

4. Call Park - To place a call on hold, and busy out your phone:

Step 1	Step 2	Step 3
Flash	Enter " 50 "	Hang up

Note: To pick up a call on the phone it was parked at, simply come back off-hook. To pick up a parked call from a different phone, use the "Directed Call Pickup" feature above.

5. Paging - To access the paging port:

Step 1	Step 2	Step 3
Go off-hook	Enter "56" and speak into the handset	Hang up

6. Intercom - To talk to another agent:

Step 1	Step 2	Step 3
Go off-hook	Enter agents station number (10-15)	Converse, then hang up

7. Blind Transfer - To transfer a call to another agent: Note: If the station is busy, you may camp-on the call by hanging up.

Step 1	Step 2	Step 3	Step 4
Flash	Enter agents station number (10-15)	Wait for ringback tones	Hang up

8. Supervised Transfer - To transfer a call to another agent:

Step 1	Step 2	Step 3	Step 4		
Flash	Enter agents station number (10-15)	Wait for answer, converse	Hang up		
Note: If the station dialed is busy, you may camp-on the call by hanging up. If after conversing with the agent, it is decided that					

the transfer is no longer required, simply ask the agent to hang up, and the call will be instantly reconnected.

9. Conference - To conference another agent into an established call:

Step 1	Step 2	Step 3	Step 4
Flash	Enter agents station number (10-15)	Wait for answer, converse	Flash again

10. Outside Line - To gain access to an outside line:

Step 1	Step 2	Step 3
Go off-hook	Enter "9" and wait for dial tone	Dial desired number

Direct Trunk Access - To directly access a specific trunk:

Step 1	Step 2	Step 3
Go off-hook	Enter " 8 "	Enter line number (01-10)

12. Transfer Out of System - To produce a flash on the outside line, allowing agents to use Centrex or PABX 3-way calling or transfer features external to the ACD-10:

Step 1	Step 2	Step 3	Step 4
Flash	Wait for dialtone	Enter *	Use external features

13. Camp-On - During a transfer if the station dialed is busy, you may camp-on the call by hanging up. If the station already has two camped on calls or has been made unavailable, the call will immediately ring back.

E. RS-232 Call Statistics Output

The ACD-10 can output call statistics to a PC or serial printer through its RS-232 serial port. The ACD-10 logs the date of call, time of call, line number of call, time the caller was on hold, agent that handled call, and type of call (see Cal Type Codes below). The ACD-10 features an internal clock/calendar that is used to date stamp each call record. After initial power-up, this internal clock must be set (see **Programming** section **M** to set time and date).

Simulated Call Statistics Output

Call Type Codes

Description

Completed Call

Abandoned Call

Transferred Call

Outbound Call

Code	CODE	AGT TIME	AGENT	ON-HOLD	LINE		TIME	DATE
COMPL	COMPL	00:00:14	10	00:00:07	01	AM	10:22:16	09/07/01
ABAND	ABAND			00:00:22	01	AM	10:23:58	09/07/01
TRANO	TRANS	00:00:09	10	00:00:11	01	AM	10:24:45	09/07/01
TRANS	COMPL	00:01:17	11		01	AM	10:26:05	09/07/01
OUT	OUT	00:00:41	11		02	AM	10:27:01	09/07/01

1. Call Type Codes

a. Completed Call

This call type represents the normal procedure for call distribution in which an incoming call is assigned to an agent, agent and caller converse, and the call ends when both caller and agent hang up. Notice that in the example call records below, the last call record has an on hold time of 00:00:00, or no time. This indicates that the agent picked up the call before the **ACD-10** answered (before the ring delay had been met) so that no hold time was accumulated.

b. Abandoned Call

An abandoned call record is generated when a caller on hold in the **ACD-10** system hangs up before an agent can get to the call. This statistic is particularly useful in determining staffing needs; a relatively large number of abandoned calls would indicate that there are not enough agents to handle incoming calls in a timely fashion.

c. Transferred Call

This call type is produced when a call is transferred from one agent to another. The time that the caller has been on hold and the time the first agent spent on the call are logged in this call record. Note that it is possible to determine which agent the call was transferred to by looking for the next appearance of the line number of the call in subsequent call records. One or more lines down in the call records the line number appears again, with the **ON HOLD** column blank, the new agent number indicated and the call type logged as **COMPL**. In this way it is possible to trace a transferred call from start to finish.

d. Outbound Call

With this call type the **ACD-10** logs the time and line number of outbound calls made by agents.

2. PC Operation and Configuration

Important: Viking Electronics will NOT support computer software or hardware problems. If you experience these problems, research your hardware and/or software instruction manuals or contact the manufacturer's technical support department.

Start your communication software. "Hyperterminal" is the communication software supplied with all Windows 32-bit operating systems. Configure a profile called "**ACD-10**" as shown to the right.

Save your settings. This will allow you to retrieve your settings whenever you wish to download the **ACD-10** data without having to manually set the parameters each time.

Connect your PC to the serial port of the **ACD-10**. From the PC, start the communications software and open the profile you created. Call records will appear as they are sent via the serial port by the **ACD-10**. Note that it is possible to minimize your communications software application so the PC can perform other functions while calls are being logged in the background.

3. Printer Operation and Configuration

Important: Viking Electronics will NOT support computer software or hardware problems. If you experience these problems, research your hardware and/or software instruction manuals or contact the manufacturer's technical support department.

Connect your serial printer to the RS-232 port of the **ACD-10** and configure your printer as shown to the right.

4. Output Formats

a. Tab Delimited ASCII Text Format (enter **2 while in Programming)

This format is used when call records are to be stored and processed using spreadsheet or database software. The **ACD-10** sends the call records to the serial port of a PC with the data fields delimited by ASCII tab characters, where they are stored temporarily by communications software such as HyperTerminal. The user then periodically retrieves the call records and imports them into existing spreadsheet or database files for storage or processing.

b. Space Delimited ASCII Text Format (enter **3 while in Programming)

This format is used if it is preferred or necessary for the **ACD-10** to send call records with the data fields delimited by ASCII space characters rather than tabs.

c. Column Text Format (enter **4 while in Programming)

This format is best for use with a printer or PC set up to print or display the call records to the screen as they are generated.

Communication Software Configuration			
Com	That of your serial port (1-4)		
Baud Rate	9600		
Data Bits	8		
Stop Bits	1		
Parity	none		
Flow Control	Hardware		

Serial Printer Configuration				
Baud Rate	9600			
Data Bits	8			
Stop Bits	1			
Parity	none			
Flow Control	Hardware			

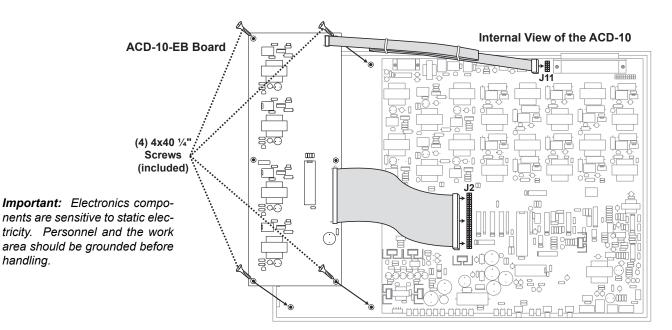
Options

A. ACD-10-EB Expansion Board

The **ACD-10** is expandable from 6 to 10 stations with the optional **ACD-10-EB**. In addition to gaining 4 more stations, there is also the "Transfer Only" station feature available on stations 16, 17, 18 and/or 19. Follow the instructions below to install the expansion board.

1. Installation

Step 1.	Power down the ACD-10.	
Step 2.	Remove the ACD-10 cover using the supplied 3/32" hex key.	
Step 3.	Snap the ACD-10-EB into place as shown below.	
Step 4.	Secure the ACD-10-EB board with the supplied 4x40 ¹ / ₄ " screws.	
Step 5.	Carefully plug the two ribbon cable connectors into the J2 and J11 pins as shown below.	
Step 6.	Remove shunts to activate "Transfer Only" station feature if needed.	
Step 7.	Replace the cover on the ACD-10 and power the unit on.	

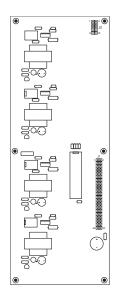


2. Station Activation

To Activate Stations 16 - 19		
Step 1.	Come off-hook on the station you wish to activate.	
Step 2.	Dial "682" and hang up.	
Step 3.	Repeat steps 1 and 2 for each station you wish to activate.	

3. Programming

Programming of the **ACD-10** remains unchanged with the addition of the **ACD-10-EB** except for the "Transfer Only" feature shunts available on the **ACD-10-EB** board. Remove the shunt to activate the "Transfer Only" feature for that associated station.



4. Operation

The addition of the ACD-10-EB board allows the ACD-10 to be expanded from 6 to 10 stations, bringing into service stations 16, 17, 18 and 19. Normal operation of the ACD-10 remains unchanged. If the "Transfer Only" shunt is removed, that associated station (when activated) allows only transferred calls to ring through. These can be in the form of blind transfers, supervised transfers, intercom calls, conference calls and camp-on call transfers. Since having the shunt removed prevents incoming calls from ringing through, that station can be used as a tieline to transfer calls to another phone system, or be used by manager, billing agents or any other personnel that should not get inbound calls, but is available to receive calls transferred from any agent.

Note: The "Transfer Only" station feature is not available in the ring group protocol.

B. Optional LM-24D Display

The LM-24D will display the mode in which the ACD-10 is operating in. Also, ringing calls or calls on hold waiting for an agent appear as a fast flashing lamp. Calls on hold longer than the programmable hold alarm time will flash and warble. Once a call is answered by an agent, it will appear as a solid line lamp.

Stations never put into service (made available) from system power-up will stay dark. Stations that are in-use or ringing are displayed as a solid lamp. Stations made unavailable will appear as a lamp that winked off every few seconds. Note: See the diagram at the right for (?

display layout.

/	Need More Information on the LM-24D?	
1	Need more mornation on the Em-24D:	
	Call (715) 386-4345 and select 670.	
/	oan (715) 500-4545 and select 070.	

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	LINE 1	LINE 2	STATION 10	STATION 11	
	LINE 3		STATION 12	STATION 13	
	LINE 3	LINE 4	STATION 12	STATION 13	
L	LINE 5	LINE 6	STATION 14	STATION 15	
	LINE 7	LINE 8	STATION 16	STATION 17	
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	LINE 9	LINE 10	STATION 18	STATION 19	
Г	0				
	NIGHT MODE	DAY (3) MODE	DAY (5) MODE	PROGRAMMING	

Fax Back Line...715.386.4345

Product Support Line...715.386.8666

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