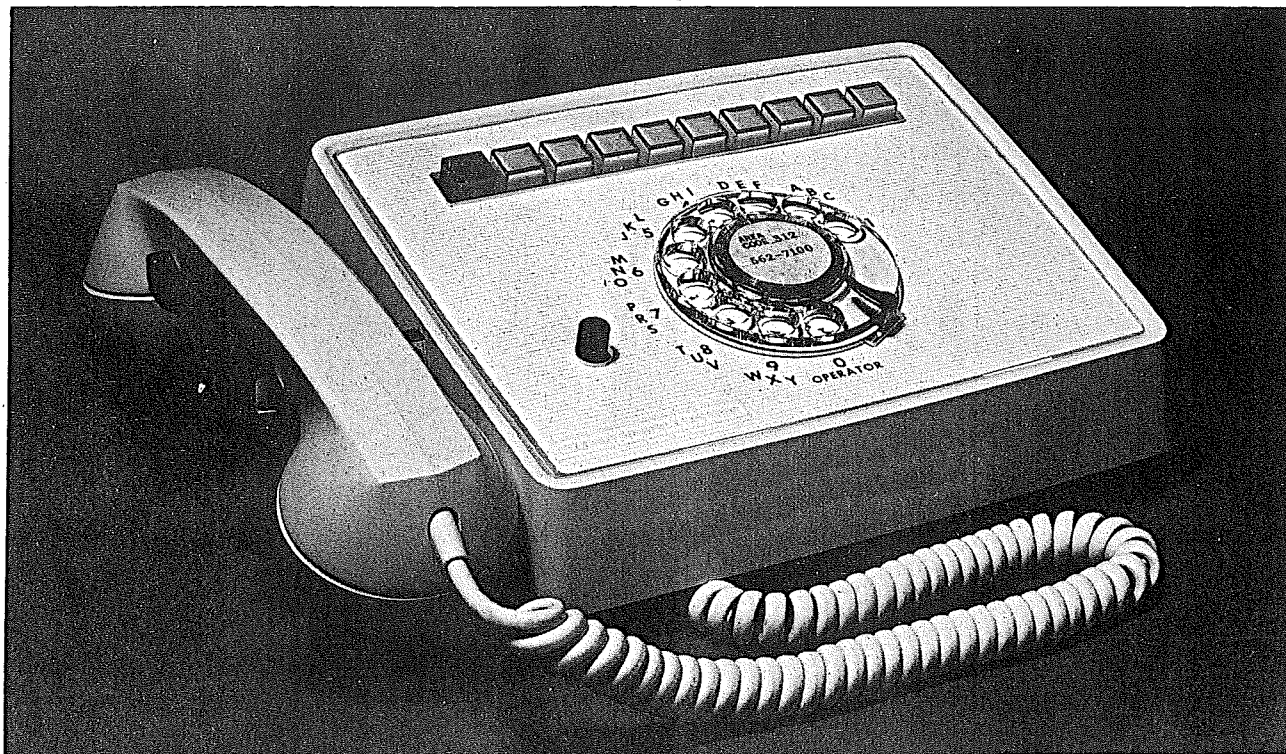


# Product News

## 102A 10/20-button key telephones



## MODERN TELEPHONES BUILD BUSINESS

New 102A key phones give the telephone company more of the things its customers want. More capacity, new service features, compatibility with new and old key systems, attractive new design, and exciting new color combinations.

### **TWO SMART MODELS ADAPT TO EVERY APPLICATION**

The 102A comes in 10- and 20-button desk models, and a 10-button wall model. Ten-button models can handle up to nine lines and hold; the 20-button model can handle up to 19 lines and hold. Buttons not needed for lines can be used for signaling, intercom, or special features.

### **SYSTEM FLEXIBILITY**

The 102A can be used with GTE Automatic Electric

10A1 and 10A2 key systems, the 16A intercom, and the new 17A key system. It can also be used with comparable systems of other makes such as the WE 1A1, 1A2 and 6A.

### **CUSTOM COLOR — THE EASY, ECONOMICAL WAY**

Housings come in basic black, basic white, and beige. Faceplates come in clear plastic—the color is added by a choice of facemats that fit under the faceplate.

### **EASY CONVERSION TO TOUCH CALLING**

One housing and one transmission unit serve both rotary dial and Touch Calling lines. To convert the housing, you simply snap-in the right faceplate. To convert the transmission unit, just switch a strap.

### PROGRAMMABLE KEYSTRIP

Line appearances can be easily changed, right at the telephone. There's no need for wiring alterations.

### SIMPLIFIED SERVICING

Interior of instrument is readily accessible. Quick-connect, "push-on" terminals for components on the transmission card save soldering, save screwdriver work, save time.

### MULTI-PARTY CONFERENCING

Optional when the 102A is used with the Type 10A2 key system; standard, when used with the 17A.

### PAGING OPTIONS

When the 102A is used with our new 17A key system, various paging arrangements can be provided.

### AUTOMATIC BUTTON RESTORAL

Keys release when handset is placed on hook. User is not likely to interrupt a call in progress or on hold, because he has to select a line to make a call. (Provided on desk models only.)

### RECALL AND SIGNALING

Button enables user to recall a PABX attendant to transfer a call, or to signal an operator.

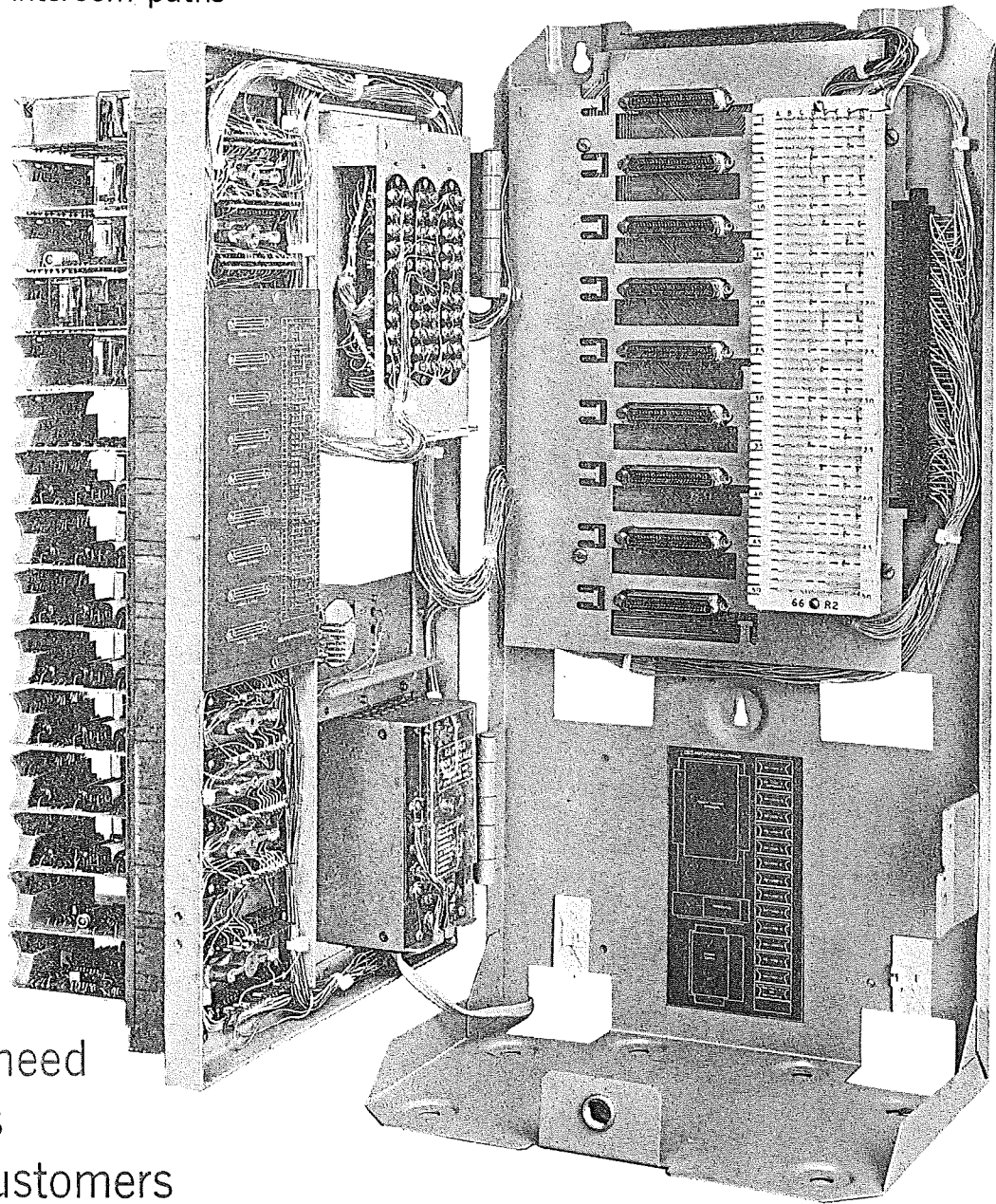
## ORDERING INFORMATION

Steps	Description	Ordering No.
1. Phone	Type 102A Desk Telephone	ND-865
	Type 102A Wall Telephone	ND-965
2. Color	Basic Black	00
	Beige	10
	Basic White	19
3. Key Assembly	10-button (Desk and Wall Models)	1
	20-button (Desk Model Only)	2
4. Rotary Dial or Touch Calling	Rotary Dial	C
	Touch Calling Unit	J
5. Ringer	Ringer and Buzzer	RB
	Signaling Paging Amplifier and Conference Keyset (Only for desk phone to be used with Type 17A Key System)	RA

# Product News

## 17A Key Telephone System

7 lines, 18 stations, 2 intercom paths

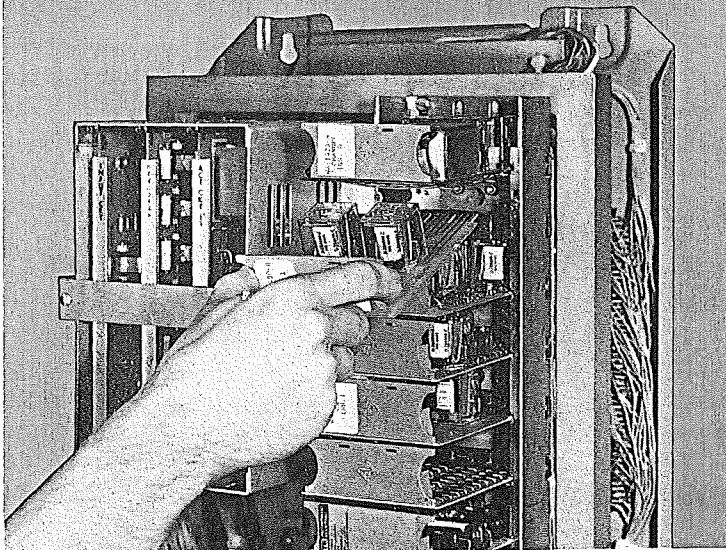


- the new features you need to sell today's key system customers
- pre-packaged for quick plug-in installation



## a key system, plus...

- exciting new features
- new communications convenience for every customer
- unparalleled new sales opportunities
- plug-in convenience



The 17A could be the best thing that's ever happened to your key system business. Show your business customers what the 17A can do for them, and they'll wonder what they ever did without one.

Here are just a few of the new business-building features of the 17A:

**Conferencing:** Any station can set up an outside conference call by simply pressing the line buttons involved. Conference calls help get things done. They get everybody together who is needed to do the job.

**Intercom Paging:** Each key telephone contains a tiny amplifier and speaker, so the user can hear an intercom message *without* having to lift the handset. Any key telephone user can page another on an intercom line. Or he can page all the stations in the key system at once. It's a handy way to spread the word--to get a group together--to get things done quickly.

### — plug-in convenience

All standard 17A Key Telephone System equipment comes pre-packaged in one compact cabinet. All you have to do is plug in the telephone running cables, hook up the CO lines by means of quick-connect terminal blocks, and plug the built-in power supply into any standard 117V AC outlet. Optional features can be added with plug-in printed wiring cards. Installation is just that simple.

### STANDARD FEATURES — pre-packaged with the 17A:

- \* Standard key system pick-up, hold and illumination (including wink hold) on 7 CO/PBX lines.
- \* Two-path dial intercom for 18 stations. Each intercom path has a dedicated button and lamp on each telephone set.
- \* Multi-line conferencing on two or more CO/PBX lines, by simultaneously depressing line buttons of the lines to be conferenced.
- \* Tone signaling for CO/PBX calls.
- \* Spurt of tone signals an intercom call. Calling station may voice page the called party.
- \* Paging - Paging speakers are connected by dialing a special digit on the intercom.

### OPTIONAL FEATURES — added with plug-in printed wiring cards:

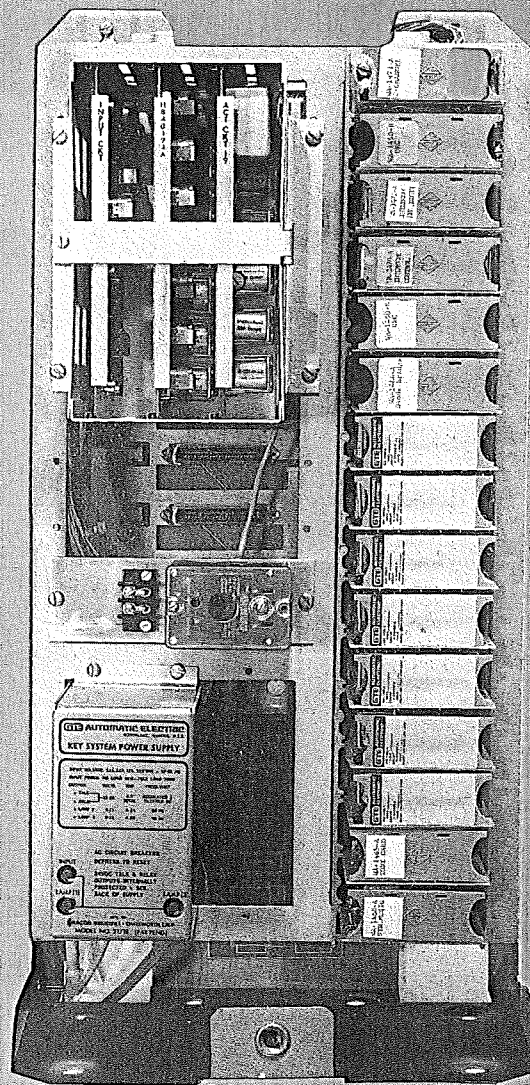
- \* Power Failure Transfer - If commercial power fails, pre-designated telephones can continue to make and receive outside calls. (Ringer must be installed at each station selected.)
- \* Music-on-Hold (furnished by synthesized electronic music card).
- \* Music-on-Hold (furnished by customer-provided music source).
- \* Touch Calling - Touch Calling and rotary dial telephones may be mixed, if the central office is equipped for both.

### added by simple modification of the telephone set:

- \* Automatic Exclusion (Privacy Lockout) for CO/PBX calls. Equipped stations may prevent other stations from interrupting a call in progress.
- \* Station Restriction prevents selected stations from dialing out on CO/PBX lines.

## Equipment Description

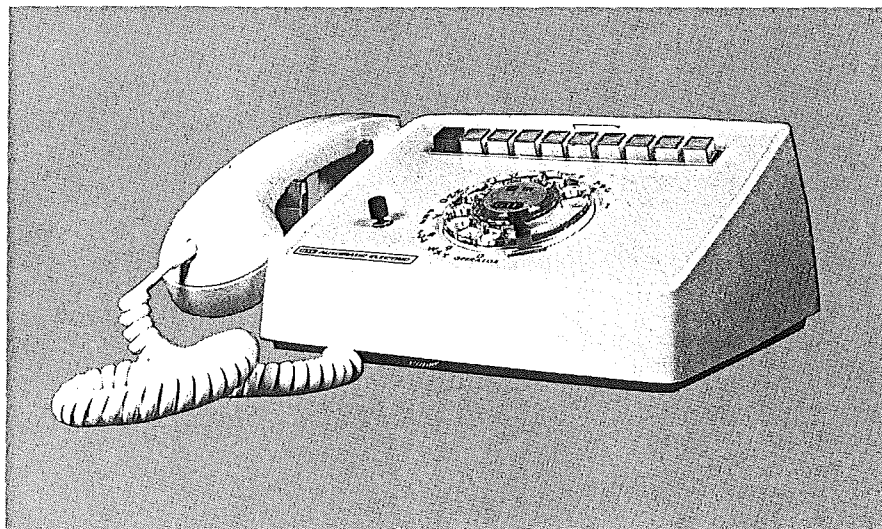
All 17A switching equipment, printed wiring cards for standard features, power supply and quick connect hardware come pre-packaged in one compact cabinet measuring 28" H x 14" W x 9½" D. This cabinet can be floor- or wall-mounted. All line cards and feature cards plug in, for ease of maintenance and feature changes.



**17A Key Telephone System, fully equipped with all standard and optional features, including Touch Calling service.**

The 17A Key Telephone System uses Type 102A 10-button key telephones with built-in paging speakers as station apparatus. See Product News C-1242 for detailed information on these telephones.

All 17A printed wiring cards can be used to update existing 10A2 equipment. (In some cases, wiring changes are necessary.)





## Ordering Information

- H-889757-1** 17A Key Telephone System, complete with apparatus cabinet, prewired connector blocks, card file, 7 CO/PBX line cards, all standard feature cards (marked with an asterisk below), and synthesized electronic music card. For rotary dial service.
- H-889757-2** Same as above, but for Touch Calling service.
- H-889757-3** Same as -1, but less 7 CO/PBX line cards and less synthesized electronic music card. For rotary dial service.
- H-889757-4** Same as above, but for Touch Calling service.

### Printed Wiring Cards - for add-on or replacement

- WA-1400-E** CO/PBX Line Card. Provides standard key system features (pickup, hold, illumination). Also switches on music-on-hold. (Music may be either from an optional synthesized electronic music card or from a customer-provided music source.) Line card has light-emitting diodes to indicate line status to maintenance personnel.
- WA-1450-B** Universal Relay Card. Provides power failure transfer option.
- WA-1465-A \*** Tone Source Card. Provides electronic ringing tone for CO/PBX and intercom calls.
- WA-1466-A \*** Diode Bridge Card. Provides multi-line conferencing on 2 or more CO/PBX lines.
- WA-1467-A** Interface Card for Music-on-Hold. Furnishes protection interface required when customer provides his own music source.
- WA-1468-A** Synthesized Music Card. Provides optional electronic music on hold.
- WA-1450-B \*** Universal Relay Card.
- WA-1470-A \*** Intercom Control Card.
- WA-1472-A \*** Intercom Double Digit Card.
- WA-1473-A \*** Two-Channel Card.
- } All four cards are required to provide 2-path electronic dial intercom service.

\* Feature cards provided as pre-packaged standard equipment with 17A Key Telephone System.

— Prices on Application —