

# TalkTo<sup>®</sup> 1032

## Electronic Key Telephone System System Manual



## Table of Contents

	<b>Page</b>
<b>Introduction</b> .....	2
<b>TalkTo 1032 Set Keys</b> .....	3
<b>Feature Description</b> .....	4
<b>Feature Selection</b> .....	5
<b>Feature Programming</b> .....	6
<b>System Programming Chart</b> .....	7
<b>Power Fail Transfer Installation</b> .....	8
<b>Operating Instructions</b>	
Making an Outgoing Call .....	9
Answering an Incoming Call .....	9
Last Number Redial .....	9
Call Hold .....	9
Call Transfer .....	9
Exclusive Call Hold .....	9
Line Monitoring .....	9
Conference Calls .....	9
Direct Station Calling .....	10
All Station Paging .....	10
External Loudspeaker Paging .....	11
Private Speed Call .....	11
Common Speed Call .....	12
Room Monitoring .....	12
Flash/Cancel .....	12
Do Not Disturb .....	12
Music (On Hold & Background) .....	12
Night Transfer .....	13
Door Answering (optional) .....	13
Power Fail Transfer (optional) .....	13
Call Announce Unit (optional) .....	13
<b>Indicator Lamps</b> .....	14
<b>System Tones</b> .....	14
<b>Technical Specifications</b> .....	15
<b>Troubleshooting</b> .....	16
<b>Common Speed Call List (20 to 59)</b> .....	18
<b>Common Speed Call List (60 to 99)</b> .....	19

### Congratulations . . .

You have now joined the growing Trillium family. You will soon discover the benefits of communicating with the *TalkTo 1032* Electronic Key Telephone System.

Designed to the most stringent specifications, and built using the latest technology, your *TalkTo 1032* System will provide you with years of reliable service.

Your *TalkTo 1032* System has three intercom paths and can accommodate a maximum of 10 outside lines, and up to 32 *TalkTo 1032* extensions.

Your System Manual contains all the information about the *TalkTo 1032* System including sections on installing options, feature selection and programming, and system operation. The *TalkTo 1032* Installation Guide, included with your system, is designed as a working "blue print" to provide you with the necessary installation information at a glance.

Many options are available to further enhance your System;

- Handsfree (speakerphone) Sets
- Attendant Sets
- Call Announce Units
- Door Answering
- Power Fail Transfer
- Set Stand/Wall Mount Brackets.

Details of these options can be obtained from your Trillium Authorized Dealer.

Instructions for installing the Power Fail Transfer option can be found on page 8.



## TalkTo 1032 Set Keys

You may wish to familiarize yourself with the Set keys before proceeding to the Operating Instructions.

### Last Number Redial

When a line key is accessed the last number redial key will redial the last number dialed.

### Line Select

The ten line select keys are used to access any of the outside lines, unless programmed otherwise. Line select key ten is used to access the Door Answering feature.

### Conference

The conference key is used for setting up three-party conference calls.

### Flash/Cancel

The function of this key is programmable as a calibrated hookswitch flash or cancel, but not both.

**Flash** provides a calibrated hookswitch flash for PABX and Centrex applications, or to your telephone exchange to access custom calling features.

**Cancel** used to cancel external calls and return dial tone without hanging up the handset.

### Hold

Outside calls are put on hold, or exclusive hold by pressing the hold key.

### Speed

The speed key is used during the programming and dialing of private and common speed call numbers.

### Speaker

Used to turn the Set speaker on and off and to terminate a handsfree call.

### Microphone

Used to turn the microphone on and off.

### Ringer Volume Control

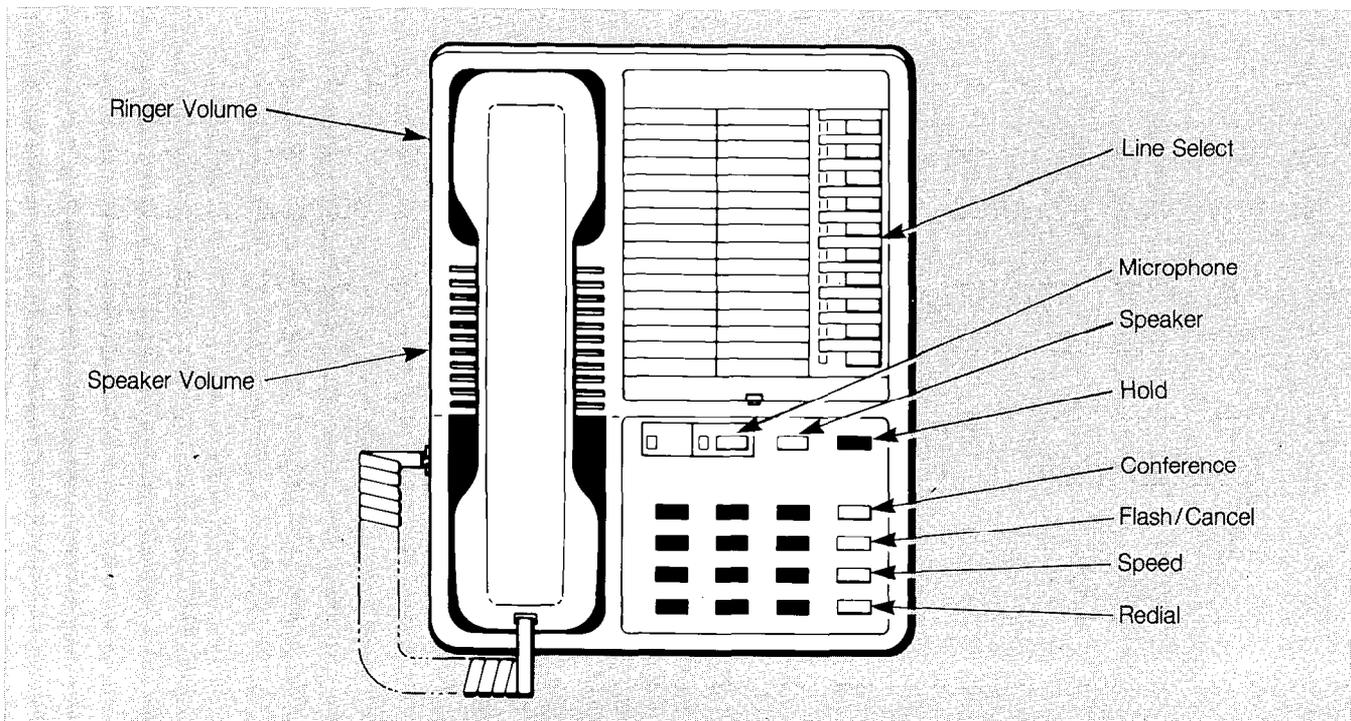
Situated on the upper left side of the Set, controls the volume of the tone ringer.

### Speaker Volume Control

Situated on the left side of the Set, controls the volume of the sound at the speaker.

### Handsfree

If the model number of your Set is 90-0123, it is equipped for your convenience with the handsfree speakerphone option. This allows you to make and receive calls completely handsfree, providing the microphone and speaker are turned on.



TalkTo 1032 Set Layout

## Feature Description

Select a value for each feature. **Note:** Values that appear in green have been preset at the factory to make your TalkTo1032 System compatible with most North American telephone networks.

**Hold Recall** – Time between placing a call on hold and receiving the first reminder tone telling you that the call is still on hold.

**Tone Duration** – This feature determines the tone duration of each tone dialed.

**Flash/Cancel** – Determines the function of the flash/cancel key, either a calibrated hookswitch flash or a cancel; 'Flash' simulates the rapid pressing and releasing of the hookswitch and provides access to PABX and custom calling features. 'Cancel' ends a call and returns dial tone without replacing the handset.

 **Make/Break Ratio** – This feature determines the on/off ratio of the pulses for rotary dialing.

 **Pulse Rate** – This feature determines the speed at which pulses are rotary dialed out.

 **Interdigit Pause** – This feature determines the time between dialed digits.

**Flash/Cancel Time** – Sets the time period of the flash or cancel signal.

**Pause on Number** – Used when the System is connected to a PABX which requires a short time delay for a second dial tone after dialing an outside line code.

 **Pulse/Tone** – Determines the type of dialing to take place for each line. Pulse simulates the type of dialing from a rotary phone while Tone simulates the type of dialing from a tone phone.

**Telephone/PABX Line** – Lets the System know which kind(s) of incoming lines it is connected to . . . either telephone or PABX lines or a combination of both. **Note:** Centrex lines are considered as PABX lines.

**Incoming Calls Only (By Line)** – Any line(s) can be programmed to receive incoming calls only. This feature applies to all Sets in the System.

**Outgoing Call/Toll Restriction (By Station)** – Each station can be programmed to disallow outgoing and toll calls.

There are three restriction classes;

**Class A** There are no restrictions on making outgoing calls.

**Class B** Dialing the digit 0 or 1 will automatically restrict a call or dialing more than 7 digits will automatically restrict a call.

**Class C** Dialing an outside line code will automatically restrict a call.

**Night Transfer Ringing** – Allows ringing to be assigned to selected stations at night. If used, it must be selected for at least one station.

**Private Line** – Assigns line 1 to a designated Set as a private line. When selected, other Sets will not have access to line 1.

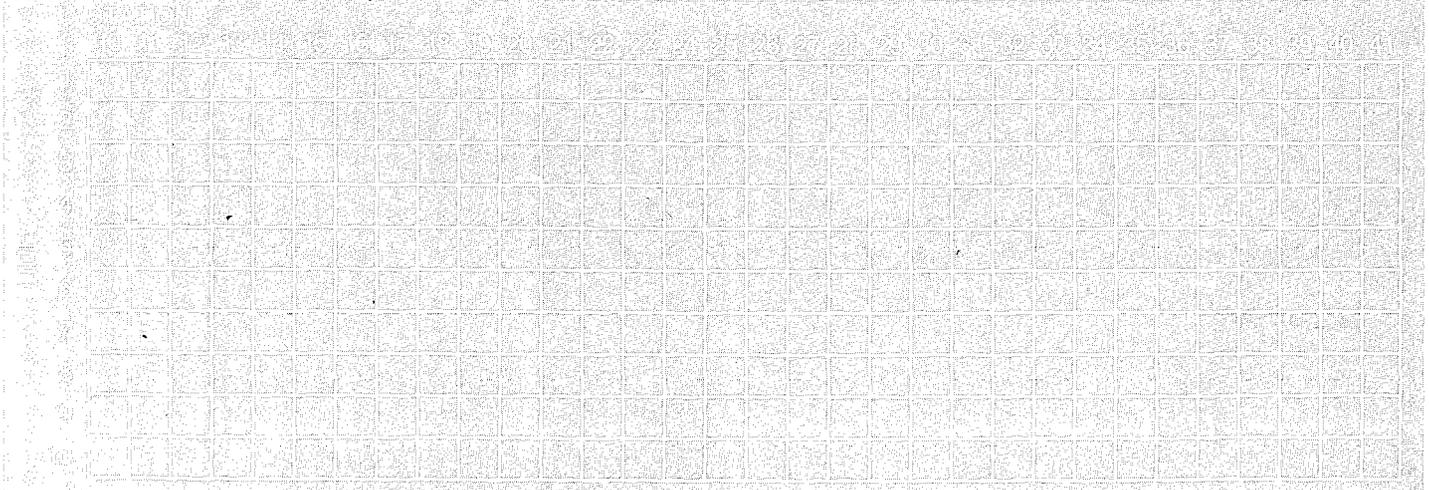
**Flexible Ringing** – Each outside line can be programmed to ring at all stations or at selected stations throughout the System.

 *The small rotary telephone dial symbol indicates features which apply to the Rotary/Tone KSU only.*

## Feature Selection

Date \_\_\_\_\_

Feature	Access Code	Condition (Value)
<b>Hold Recall Time</b>		1min__ 2min__ 3min__ <i>No Recall</i> __
<b>Tone Duration</b>	010	55 ms__ 75 ms__ (ms is millisecond)
<b>Flash/Cancel</b>		<i>Flash</i> __ <i>Cancel</i> __
<b>Make/Break Ratio</b>	020	33%__ 40%__
<b>Pulse Rate</b>		10pps__ 20pps__ (pps is pulses per second)
<b>Interdigit Pause</b>	030	1100ms__ 800ms__ 700ms__ 500ms__
<b>Flash/Cancel Time</b>		250ms__ 500ms__ / 1000ms__ 3000ms__
<b>Pause on Number</b>	040	Number 7__ 8__ 9__ 0__ <i>No Pause</i> __
<b>Pulse(P) or Tone(T) (By Line)</b>	050	Line 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__
<b>Telephone(T) or PABX(P) (By Line)</b>	060	Line 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__
<b>Incoming Calls Only (By Line)</b>	070	<i>No Lines</i> __ Yes Line 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__
<b>Toll Restriction (By Station)</b> (* * represents the station number)		<i>Class A, B or C</i> 10__ 11__ 12__ 13__ 14__ 15__ 16__ 17__ 18__ 19__ 20__ 21__ 22__ 23__ 24__ 25__ 26__ 27__ 28__ 29__ 30__ 31__ 32__ 33__ 34__ 35__ 36__ 37__ 38__ 39__ 40__ 41__
<b>Night Transfer (By Station)</b>	1* *	<i>No Transfer</i> Yes Transfer 10__ 11__ 12__ 13__ 14__ 15__ 16__ 17__ 18__ 19__ 20__ 21__ 22__ 23__ 24__ 25__ 26__ 27__ 28__ 29__ 30__ 31__ 32__ 33__ 34__ 35__ 36__ 37__ 38__ 39__ 40__ 41__
<b>Private Line</b>		<i>No Private Line</i> Yes at Station__
<b>Ringling Assignment (by Stn/Line)</b>	2* *	<i>No Ringling Assigned</i> Yes . . . Stn/Line



## Feature Programming

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Now that you have selected your System features it is time to actually enter the information into the KSU memory. Remember, certain features, the ones in green type, have been preselected to make your system compatible with most North American telephone networks. This means that it may only be necessary to change certain features to meet your personal requirements.

### STEP 1) Programming the Factory Preset Features

- Go to the Key Service Unit (KSU) - the STATUS lamp should be flashing.
- Set the BATTERY switch to ON (using the tip of a pen).
- Set PROGRAM switches 1 and 2 to ON.  
(Switch number 3 is not used)
- Press the RESET button – the STATUS lamp will turn OFF. You have now programmed your System with the factory preset features; you may proceed to step 2 and program features to meet your needs or proceed to step 3 and put the system into operation.

### STEP 2) Programming Features

Each feature is represented by a three-digit number known as an Access Code. This access code is listed beside the name of the feature. When the access code is dialed at station 10 you will be able to program the feature to meet your needs by turning the indicator lamps either On or Off as specified. (There is a slight delay from the time a key is pressed until the indicator lamp changes). Access codes can be dialed in any order.

- Set PROGRAM switch 2 to ON.
- Ensure PROGRAM switch 1 is in the OFF position.
- Press the RESET button.
- At Station 10, press the \* key – the internal indicator lamp will turn ON indicating the system is ready to be programmed.
- Use the System Programming Chart to determine the access code and the correct indicator lamp combination; Line Indicator lamps are turned ON and OFF by pressing the corresponding line key; the Mic Indicator lamp is turned On and Off by pressing the hold key.
- When finished with the System Programming Chart, press the # key; all indicator lamps will turn OFF.  
**Note:** If a power failure occurs during programming, repeat all of step 2.

### STEP 3) Putting the System into Operation

- At the KSU, set PROGRAM switch 1 and 2 to OFF.
- Press the RESET button – the STATUS lamp will begin to flash after a few seconds indicating system operation. Your *TalkTo1032* System is now ready to use. See the section entitled Operating Instructions for speed call programming and operating instructions.

### Reprogramming or Checking Features

To reprogram or check features at any time, repeat steps 2 and 3. (There is a reprogramming form in the back of this manual).

## System Programming Chart

Feature Description	Access Code	Condition (Value)	Indicator Lamp											
			L1	L2	L3	L4	L5	L6	L7	L8	L9	L10 MIC		
<b>Hold Recall Time</b>	010	<i>No Recall</i> 1 min. 2 min. 3 min.	off on off on	off off on on										
<b>Tone Duration</b>		55 ms 75 ms			on off									
<b>Flash/Cancel</b>		<i>Flash</i> Cancel			off on									
<b>Make/Break Ratio</b>	020	33% 40%	on off											
<b>Pulse Rate</b>		10 pps 20 pps		off on										
<b>Interdigit Pause</b>	030	1100 ms 800 ms 700 ms 500 ms	off on off on	off off on on										
<b>Flash Time OR Cancel Time</b>		250 ms 500 ms 1000 ms 3000 ms			off on off on								off off on on	
<b>Pause on Number</b>		7 8 9 0 <i>No Pause</i>	on off off off off	off on off off off									off off off on	
<b>Pulse/Tone (by line)</b>	050	<i>Tone</i> Pulse	off on	off on	off on	off on	off on	off on	off on	off on	off on	off on		
<b>Telephone/PABX (by line)</b>	060	<i>Telephone</i> PABX	off on	off on	off on	off on	off on	off on	off on	off on	off on	off on		
<b>Incoming Calls Only</b>	070	<i>No</i> Yes	off on	off on	off on	off on	off on	off on	off on	off on	off on	off on		

The following features are programmable for each station, therefore you must dial the station number as part of the access code. (\* \* is the station number)

<b>Toll Restriction</b>	1* *	<i>Class A</i> Class B Class C	off on off	off off on									
<b>Night Transfer</b>		<i>No</i> Yes			off on								
<b>Private Line (only one station)</b>		<i>No</i>											off on
<b>Ringling Assignment</b>	2* *	<i>No</i> Yes	off on	off on	off on	off on	off on	off on	off on	off on	off on	off on	

Return to step 2 and continue.

## Fail Trans

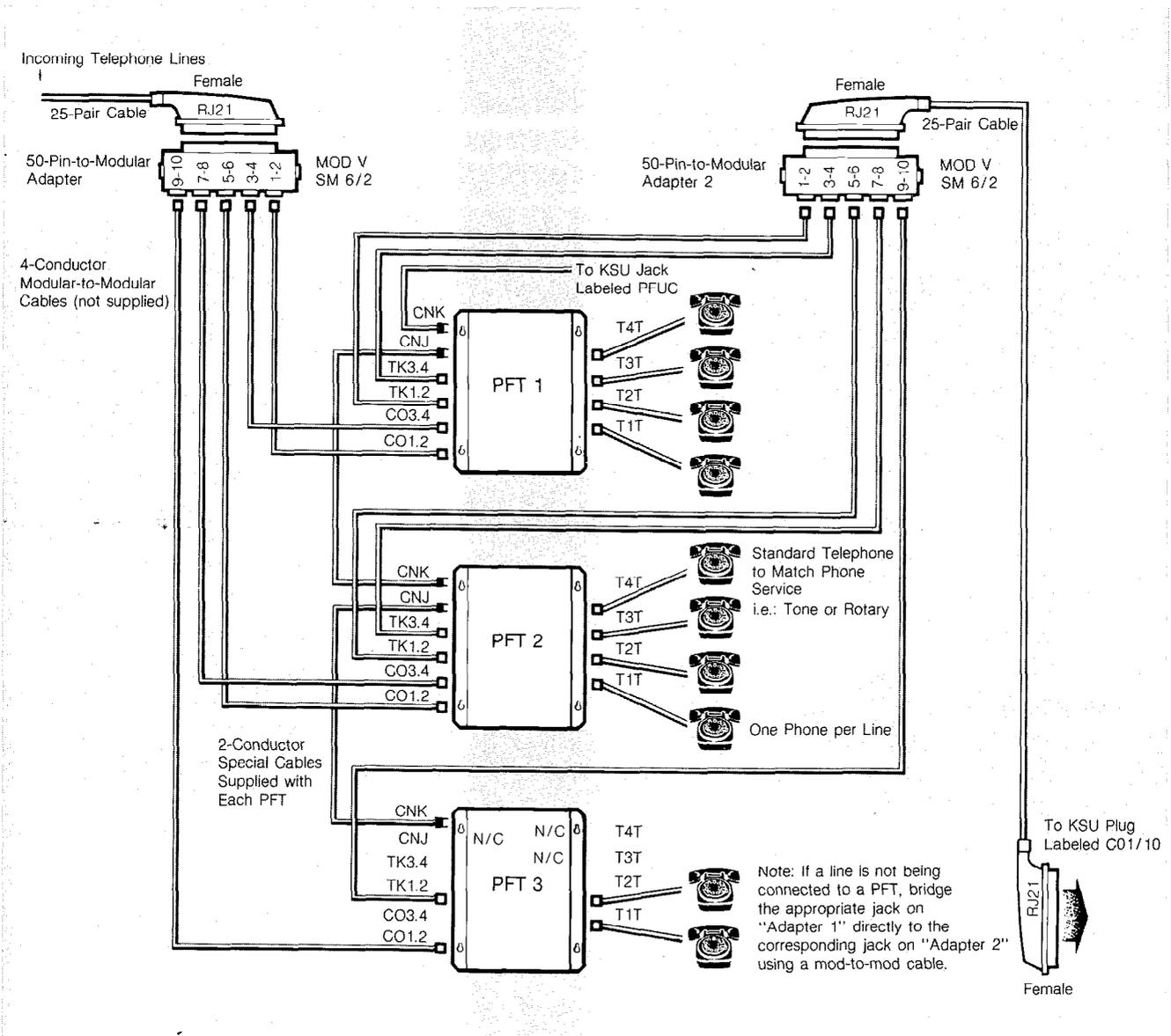
Information on installing the main system components is covered in the *TalkTo1032* Installation Guide included with the key service unit.

This section deals with the installation of the Power Fail Transfer option. The Power Fail Transfer (PFT) unit will transfer telephone lines to customer provided standard telephones in the event of a power failure; three PFTs will transfer 10 lines to 10 telephones; two PFTs will

transfer 8 lines to 8 telephones; one PFT will transfer 4 lines to 4 telephones.

Make the appropriate connections as shown on the PFT installation diagram.

**Note:** In the event of an electrical power failure it is possible to maintain full system operation by means of a battery backup supply. For more information on battery backup supplies, see Trillium's Technical Update "85/06" or contact your nearest authorized dealer.



**TalkTo1032 Power Fail Transfer Installation**

The small "hand" symbol represents an instruction option for the model 90-0123 Handsfree Set.

## Making an Outgoing Call

Each *TalkTo 1032* Set user has access to each of the ten outside lines (unless programmed otherwise) by pressing a line select key. If a line indicator lamp is On, that line is in use.

### On-Hook Dialing (with the handset in the cradle)

- Press the line key of an unused outside line.
- Dial the telephone number.
- When the call is answered, lift the handset.

 Handsfree Sets may remain on-hook provided the microphone indicator is On.

- If the call is unanswered, press the speaker key.

### Off-Hook Dialing (with the handset lifted)

- Lift the handset.
- Press the line key of an unused outside line.
- Dial the telephone number.

## Answering an Incoming Call

### To Answer an Incoming Call

- Lift the handset.

 Handsfree Sets may remain on-hook provided the microphone indicator is On.

- Press the appropriate line key.

## Last Number Redial

The last number dialed at your Set is automatically saved and can be redialed on any line, either with the handset on-hook or off-hook.

### On-Hook Dialing

- Press the line key of an unused outside line.
- Press the redial key.
- When the call is answered, lift the handset.

 Handsfree Sets may remain on-hook provided the microphone indicator is On.

### Off-Hook Dialing

- Lift the handset.
- Press the line key of an unused outside line.
- Press the redial key.

## Call Hold

### To Place an Outside Call on Hold

- Press the hold key (line indicator flashes). The handset may be placed on-hook.

### To Retrieve the Call at Any Set

- Lift the handset.

 Handsfree Sets may remain on-hook provided the microphone indicator is On.

- Press the appropriate line key.

## Call Transfer

### To Transfer a Call to Another Set

- Press the hold key (line indicator flashes).
- Press and release the hookswitch (a continuous tone is heard).

 Handsfree Sets may remain on-hook. Ensure the microphone indicator is On. Press the speaker key.

- Dial the number of the desired station (one tone burst is heard) and announce which line the call is on.
- If the called party is not available, press the key of the line on hold to retrieve the call.

## Exclusive Call Hold

Exclusive Call Hold allows the call to be retrieved only at the Set which placed the call on Exclusive Hold.

### To Place a Call on Exclusive Hold

- Press the hold key twice (line indicator flashes quickly). The handset may be placed on-hook.

### To Retrieve a Call on Exclusive Hold

- Lift the handset.

 Handsfree Sets may remain on-hook provided the microphone indicator is On.

- Press the appropriate line key.

## Line Monitoring

If you are put on hold during an outside call you can monitor the outside line through the speaker while you are waiting.

- Press the speaker key. Audio from the outside line is now heard through the speaker.
- Replace the handset. When you hear the caller return, lift the handset and continue the call.

## Conference Calls

An external or an internal call may be added to an existing call to form:

- a one external and two internal party conference.

- a one internal and two external party conference.
- a three internal party conference.

## To Set Up a Conference – 1 external party, 2 internal parties

When an outside call is already in progress, an internal party may be added to the call;

- Press the hold key.
- Press and release the hookswitch (a continuous tone is heard).



Handsfree Sets may remain on-hook.  
Ensure the microphone indicator is On.  
Press the speaker key.

- Dial the station number of the party to be added to the call.
- When the called party answers, press the conference key.
- Press the key of the line placed on hold.  
A three-party conference is established.  
Any of the parties may leave the conference simply by going on-hook.

## To Set Up a Conference – 2 external parties, 1 internal party

When an outside call is already established, another external party can be added to the call;

- Press the hold key.
- Press the line key of an unused outside line, and dial the second outside party.
- When the second outside call is established, press the conference key.
- Press the key of the outside line on hold.

A three-party conference is now established.  
During the conference both calls may be placed on hold simply by pressing the hold key.

## To Recall Both Lines into the Conference

- Press the line key for one of the lines on hold.
- Press conference key.
- Press the line key for the other line on hold.  
The conference is now re-established.  
If during the conference you wish to return to a two-party conversation, press the line key of the outside line you wish to keep.  
The other line will be dropped automatically.

## To Set Up a 3 Party Internal Conference

When an internal off-hook or handsfree call is already established, a third internal party can be added to the call;

- Press the conference key.

- Dial the station number of the party to be added. The first two parties are heard through the speaker of the third.
- When the called party answers, a three-party conference is established.  
If the called party does not answer, press the conference key to return to the original two-party call.  
Any one of the parties may hang up to return to a two-party call.

## Direct Station Calling

Direct station calls (intercom calls) can be made directly to other *TalkTo* stations in the system.

### To Make a Direct Station Call

- Lift the handset.



Handsfree Sets may remain on-hook.  
Ensure the microphone indicator is On.  
Press the speaker key.

- Dial the number of the desired station.  
One tone burst is heard.
- Make your announcement.

**Notes:** If the internal indicator is On before you start, all intercom paths are busy. If the called party is on another call, you will hear busy tone. Call Announce Units can only receive paging announcements.

### To Answer a Direct Station Call On-Hook

- Press the microphone key to turn the microphone indicator On and speak in the direction of the Set.

**Note:** The Set initiating the internal call must be off-hook or handsfree before your response can be made on-hook.

### To Answer a Direct Station Call Off-Hook

- Lift the handset and speak.

## All Station Paging

Allows you to make an announcement to all other Sets simultaneously. The message is preceded at all stations by two tone bursts.

**Note:** If a Call Announce Unit is connected at your location, it may be necessary to turn your Set volume down to prevent feedback (squeal).

### To Page All Stations

- Lift the handset.



Handsfree Sets may remain on-hook.  
Ensure the microphone indicator is On.  
Press the speaker key.

- Dial 50. Two tone bursts are heard at all Sets.
- Make the announcement.

To answer an All Station Page – (Meet Me Answer)

- Lift your handset.
- Dial \* 1.  
You are now connected to the calling party.

**External Loudspeaker Paging**

This feature allows any Set user to make an announcement through a customer-provided external paging system.

To Make an Announcement

- Lift the handset



Handsfree Sets may remain on-hook.  
Ensure the microphone indicator is On.  
Press the speaker key.

- Dial 59. A short tone is heard.
- Make your announcement.

**Private Speed Call**

- *TalkTo1032* Sets and Attendant Sets can be programmed by the user, to speed call 17 private numbers, each up to 16 digits in length. On a standard Set each private speed call number is assigned a two-digit code from 00 to 16. On an Attendant Set each private speed call number is assigned to a specific key.

Numbers greater than 16 digits in length can be entered and dialed using two access codes or two keys.

Feature access codes for PABX, Centrex, and custom calling features can also be programmed as speed call numbers.

Programming (at Standard Sets)

Before programming check that the internal indicator is Off.

To begin programming private speed call numbers

- Press the speed key (a continuous tone is heard)
- Dial the appropriate two-digit code (00 to 16)
- Dial the telephone number to be stored – maximum 16 digits.  
Numbers longer than 16 digits can be entered by programming the excess digits into the next speed call code.

To continue programming

- Press the speed key.
- Dial the next two-digit code.
- Dial the telephone number to be entered.

To stop programming

Press the speaker key.

Programming (at Attendant Sets)

Before programming check that the internal indicator is Off.

To begin programming private speed call numbers

- Press the speed key (a continuous tone is heard).
- Press the desired key on the display (10 to 26).
- Dial the telephone number to be stored – maximum 16 digits.  
Numbers longer than 16 digits can be entered by programming the excess digits into the next key.
- Fill out the directory card.

To continue programming

- Press the speed key.
- Press the desired key on the Display.
- Dial the telephone number to be entered.

To stop programming

- Press the speaker key.

Dialing (at Standard Sets)

To dial private numbers on-hook

- Press an unused line key.
- Press the speed key.
- Dial the appropriate two-digit code (00 to 16).
- When the call is answered, lift the handset.



Handsfree Sets may remain on-hook provided the microphone indicator is On.

- If the call is unanswered, press the speaker key.

To dial private numbers off-hook

- Lift the handset.
- Press an unused line key.
- Press the speed key.
- Dial the appropriate two-digit code (00 to 16).

Dialing (at Attendant Sets)

To dial private numbers on-hook

- Press an unused line key.
- Press the appropriate key on the Display (10 to 26).
- When the call is answered, lift the handset.



Handsfree Sets may remain on-hook provided the microphone indicator is On.

- If the call is unanswered, press the speaker key.

OPERATING INSTRUCTIONS

To dial private numbers off-hook

- Lift the handset.
- Press an unused line key.
- Press the appropriate key on the Display (10 to 26).

**Common Speed Call**

A maximum of 80 telephone numbers, each up to 16 digits in length can be programmed as common speed call numbers. Programmed telephone numbers may contain feature access codes for Centrex, PABX and custom calling networks. Long distance telephone numbers can be accessed by all Set users even if Class B toll restrictions are programmed. Numbers are stored using two-digit speed call codes from 20 to 99 inclusive and are programmed from Set number 10.

Programming

Before programming check that the internal indicator is off. To begin programming a common speed call number from Set number 10:

- Press the speed key (a continuous tone is heard).
- Dial the appropriate two-digit code (20 to 99).
- Dial the number to be programmed (16 digits maximum).

To continue programming

- Press the speed key.
- Dial another two-digit code (20 to 99).
- Dial another telephone number (16 digits maximum).

To stop programming

- Press the speaker key.

Dialing

To dial common numbers on-hook

- Press an unused line key.
- Press the speed key.
- Dial the appropriate two-digit access code (20 to 99).
- When the call is answered lift the handset.



Handsfree Sets may remain on-hook provided the microphone indicator is On.

- If the call is unanswered, press the speaker key.

To dial common numbers off-hook

- Lift the handset.
- Press an unused line key.
- Press the speed key.

- Dial the appropriate two-digit access code (20 to 99).

**Room Monitoring**

You can monitor any room where another *TalkTo* Set is situated, provided the microphone at the Set to be monitored is On and your microphone is Off.

To Activate Room Monitoring

- Press the speaker key (a continuous tone is heard).
- Dial the number of the Set to be monitored. A single tone is heard at both Sets.

To Cancel Room Monitoring

- Press your speaker key.

**Flash/Cancel**

The flash/cancel key of your Set has been preprogrammed during the installation procedure to function as a calibrated hookswitch flash or a cancel, but not both.

Check to see which function your System has been programmed for. The flash/cancel key can not be used on an inside line.

**Flash** simulates the rapid pressing and releasing of the hookswitch and provides access to PABX and custom calling features.

**Cancel** ends an outside call and returns dial tone without hanging up.

To Use Calibrated Flash

- While on an outside line, press the flash/cancel key once. The preprogrammed flash time is generated automatically.

To Use Cancel

- While on an outside call, press the cancel key once. The call is cut off and dial tone is returned.

**Do Not Disturb**

When activated, internal calls will not ring at your Set and the party calling you will hear busy tone. Your Set will still receive outside calls.

To Activate Do Not Disturb

- Lift the handset.
- Dial \*6.
- Replace handset (internal indicator flashes). To cancel Do Not Disturb repeat the above procedure and the internal indicator will turn Off.

**Music (On Hold and Background)**

When a music source is connected to the system,

background music is available through the speaker of your Set or through the external paging system (if connected).  
Calls placed on hold will hear the background music automatically.

#### To Turn Background Music On at Your Set

- Lift the handset.
- Dial \*4.
- Replace the handset.  
To turn background music off repeat the above procedure.

#### To Activate Background Music through the External Paging System

- Lift the handset.
- Dial \*7.
- Replace the handset.  
To turn the external music off, repeat the above procedure.

#### Night Transfer

The System has been preprogrammed during the installation procedure, so that selected *TalkTo 1032* Sets will ring when Night Transfer is activated.

#### To Activate Night Transfer

- Lift the handset at Set number 10.
- Dial \*9.
- Replace the handset.

#### To Cancel Night Transfer

- Lift the handset at Set number 10.

- Dial \*8.
- Replace handset.

#### Door Answering (optional)

The TalkTo Door Answering feature, when connected, allows one or two doors to be equipped with intercom service. When a visitor presses the Door Module button, distinctive tone ringing will be heard through all Sets, allowing you to determine which module is active.

#### To Answer a Door Call

- Lift the handset.



Handsfree Sets may remain on-hook provided the microphone indicator is on.

- Press line key "10".
- Speak with the visitor at the door.

The visitor at the door answers by speaking in the direction of the Door Module.

- To end the conversation, press speaker / hang up

#### To Place an Intercom Call to Door Module Number One

- Lift the handset.



Handsfree Sets may remain on-hook provided the microphone indicator is on.

- Press line key "10".  
One ringing burst is heard.
- At the end of the ringing burst, make your announcement. The called party answers by speaking in the direction of the Door Module.
- To end the conversation, press the speaker key.

#### Power Fail Transfer (optional)

If your *TalkTo* System is equipped with the Power Fail Transfer option, regular telephone service is made available through standard telephones during an electrical power failure.

You should familiarize yourself with the location of these telephones. Programmed data are maintained during an electrical power failure by a battery situated in the KSU.

Full service will be restored to your *TalkTo 1032* Set automatically when electrical power is restored to the System.

#### Call Announce Unit (optional)

The Call Announce Unit allows you to receive paging announcements while busy on another call. See "Direct Station Calling" for operation.

## Indicator Lamps

Your Set is equipped with a number of indicator lamps which show the status of your *TalkTo 1032* System.

The differences between flashing rates and tones will become clearer as you become more familiar with your Set.

### Corresponding Line Status

The corresponding line is idle and may be used	Off
Call in progress on corresponding line at another Set.	
The corresponding line is selected at your Set.	
A call is on hold at another Set.	
Incoming telephone call or incoming door call.	
A call is on hold at your Set.	
A call is on exclusive hold at your Set.	

### Internal Line Status

There is an internal line available.	Off
All internal lines are in use.	
The internal line is in use at your Set.	
Do Not Disturb is on at your Set.	
An internal (intercom) call is being made to your Set.	
An All Page announcement is in progress.	
Speed call programming is in progress.	

### Microphone Status

Your microphone is off.	Off
Your microphone is on.	On

## System Tones

Certain System features are announced by audible tones.

### Tone

Tone heard when handset lifted/speaker key pressed.	
The TalkTo station you have called is busy.	
An All Page announcement is about to be made.	
An internal (intercom) call is being made.	
Someone is calling from Door Module 2.	 
Someone is calling from Door Module 1.	   
Hold recall – there is a call on hold at your Set.	
An incoming telephone call.	   
A call is being made to Door Module 1.	

## *Technical Specifications*

<b>Outside Lines</b> .....	10 (9 with Door Answer)
<b>TalkTo Stations</b> .....	32
<b>Intercom Speech Paths</b> .....	3
<b>Door Modules</b> .....	2
<b>Power Fail Transfer</b> .....	3 Units maximum: 1 Unit transfers 4 outside lines to 4 standard telephones. 2 Units transfers 8 outside lines to 8 standard telephones. 3 Units transfers 10 outside lines to 10 standard telephones.
<b>AC Power Requirements</b> .....	115 Volts+ 10% (50/60 Hz) 1 Amp max.
<b>Paging Output Level</b> .....	200 mV rms into 600 ohms
<b>Music Input Level</b> .....	50 mV rms max.
<b>C.O. Loop Limit</b> .....	1500 ohms
<b>Station Loop Limit</b> .....	150 ohms (equivalent to 2000' 24AWG) All stations are home run wired.
<b>Operating Temperature</b> .....	0°C to 40°C (32°F to 100°F)
<b>Relative Humidity</b> .....	90% or less, non-condensing
<b>Signaling – Tone KSU</b> .....	Dual Tone Multifrequency (DTMF)
– Rotary/Tone KSU .....	DTMF and Pulses
<b>Numbering Plan</b> .....	Set numbers 10 to 41 (Control Set 10)

## *System Connectors*

<b>KSU</b>	C.O. lines – RJ21 Stations – RJ21 (× 4) Door Answer Unit – RJ25 Attendant Set – RJ21 Power Fail Transfer – 2-pin External Paging – mono 1/8 inch mini jack Music Input – Mono 1/8 inch mini jack
<b>Sets, Call Announce Units</b>	RJ14
<b>Door Answer Unit</b>	RJ 25
<b>Door Answer Module</b>	2 screw terminals
<b>Power Fail Transfer</b>	2-pin and RJ 14
<b>Attendant Set</b>	RJ 14 and RJ 21

*Design and Specifications subject to change without notice.*

## Troubleshooting

This section assists in locating and correcting any faults which may occur during the installation and programming of your *TalkTo 1032* System.

Probable Cause	Probable Solution
Incorrect wiring.	Make sure there are no open or short connections along that run of station wiring. Refer to the station wiring tables in the <i>TalkTo 1032</i> Installation Guide.
Cable disconnected.	Check to see that the Set's modular cord is plugged into the modular jack.
Main Distribution Frame connection	Ensure that all RJ21 station connectors are properly wired and connected from the main distribution frame to the KSU as outlined in the <i>TalkTo 1032</i> Installation Guide.
Static discharge	Unplug the Set from its modular jack and plug it back in again. This resets the Set. If the problem persists, unplug the KSU from the electrical outlet and plug it back in again. This resets the KSU.
No electrical power to the KSU	Plug the KSU into a grounded, unswitched 115 Vac electrical outlet.
KSU is not in operational mode. (KSU Status lamp not flashing)	Place the KSU into operation by following the Feature Programming section of this manual.

Probable Cause	Probable Solution
Incorrect KSU.	Make sure you do not have a Tone KSU connected to rotary lines.
Incorrect Rotary/Tone KSU programming.	Ensure that each rotary line is programmed for rotary dialing. See the Feature Programming section of this manual under access code 050.
	Make sure the make/break ratio and pulse rate are properly set for your rotary telephone network. See the Feature Programming section of this manual under access code 020.
	Ensure that the interdigit pause time is properly set for your rotary telephone network. See the Feature Programming section of this manual under access code 030.
Call restrictions.	Check for proper outgoing call and toll restriction programming. See the Feature Programming section of this manual under access code 1**.

## Troubleshooting

**Problem:** When the # key is pressed, the line indicator lights for that line do not blink through the handset.

<b>Probable Cause</b>	<b>Probable Solution</b>
Faulty telephone line connection to the KSU.	Ensure that the RJ21 telephone line connector is properly wired and firmly connected to the KSU as outlined in the <i>TalkTo1032</i> Installation Guide. If the problem persists, report the fault to the telephone company.

**Problem:** The KSU is not retaining programmed features.

<b>Probable Cause</b>	<b>Probable Solution</b>
KSU BATTERY switch is OFF.	Set the KSU BATTERY switch to ON and repeat the programming steps.
The # key was not pressed	Make sure the # key is pressed after programming the features. See the Feature Programming section of this manual.

**Problem:** The line indicator flashes during initialization if the handset does not answer.

<b>Probable Cause</b>	<b>Probable Solution</b>
Ringing assignment.	Ensure that the Set(s) in question are programmed for ringing. Remember, ringing must be programmed for each line at each Set. See the Feature Programming section of this manual under access code 2*.*.

**Problem:** With the Door Answer Module installed, ringing tone is not heard through the line indicator when a call is made from the door, when it is pressed.

<b>Probable Cause</b>	<b>Probable Solution</b>
Door Answer Unit Connection	Make sure the Door Answer Unit is connected to the KSU exactly as outlined in the <i>TalkTo 1032</i> Installation Guide. Remember, there is a 6-conductor modular cord which must be connected to the KSU.
Door Module connection.	Ensure that the Door Module is connected to the Door Answer Unit exactly as outlined in the <i>TalkTo1032</i> Installation Guide.

**Problem:** With the Door Answer Module installed, ringing tone is not heard but the line 10 indicator does flash when the door station is pressed.

<b>Probable Cause</b>	<b>Probable Solution</b>
No ringing assignment for line 10.	Make sure line 10 is programmed for ringing at the required Sets. See the Feature Programming section of this manual under access code 2*.*.

Common Speed Calling List (20 to 59)

Access Code	Telephone Number	Name/Company
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
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59		

Common Speed Calling List (60 to 99)

Access Code	Telephone Number	Name/Company
60		
61		
62		
63		
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69		
70		
71		
72		
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