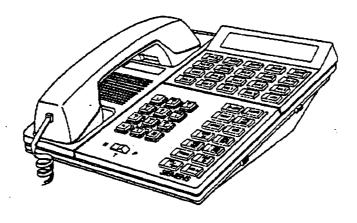
Siemens

40/80



HYBRID KEY TELEPHONE SYSTEM

FEATURE DESCRIPTIONS, SERVICE CONDITIONS, AND DISPLAY INDICATIONS

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ACCOUNT CODE - FORCED

SIEMENS KEY SYSTEMS

SECTION: 40/80

FEATURE DESCRIPTION

When programmed, the system requires that all CO/PBX/CENTREX line calls have up to a 12-digit account code prior to processing the call. If the account code is less than 12 digits, an asterisk(*) can be entered.

Forced Account Code is only required to allow a user to overcome toll restriction and retain a record of it.

OPERATING PROCEDURE

- a. Press pre-programmed account code button.
- b. Dial account code up to 12 digits. (The other party cannot hear the digits being dialed.)
- c. If account code is less than 12 digits, an asterisk (*) must be entered to return to the call.

SERVICE CONDITIONS

- a. The systems database must be programmed for either YES or NO for this feature. The system default value is NO.
- b. Account codes cannot be included as a part of a speed dial.
- c. This feature requires the use of a 40/80 Key Set.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the idle mode, the following display is shown:

918005437309 LINE 08 00:00:00

ACCOUNT CODES

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

An account code is the last field within Station Message Detail Recording (SMDR) that provides the ability to track specific calls by entering up to a 12-digit identifier. The use of forced Account Codes is optional, and is offered on a system-wide basis.

OPERATING PROCEDURE

When connected to an outside line call or just after the other party has hung up.

- a. Press pre-programmed account code button.
- b. Dial account code, up to 12 digits. (The other party cannot hear the digits being dialed.)
- c. If the account code is less than 12 digits, an asterisk (*) must be entered to return to the call.

SERVICE CONDITIONS

A printer or call accounting device must be attached to review the account code print out.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the idle mode, the following display is shown.

918005437309 Line 08 00:00:000

ADD-ON CONFERENCE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Two internal stations can engage in a conference with one external party; or up to five internal parties can set up a conference.

OPERATING PROCEDURE

While engaged in a conversation with either an internal or external party, press the CONF button and then either press another line key and dial another party or press a DSS/DLF button. Upon connection to the second call, press the CONF button again to initiate the conference.

SERVICE CONDITIONS

- a. Every station can establish one CONFERENCE at a time.
- b. The system limit is based on the number of Central Office/ PBX/Centrex lines and stations.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 AM

A-LEAD INDICATION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

There are two control contacts which may be individually programmed as either A-lead indication (to control ancillary equipment) or Loud Bell Control. When programmed as A-Lead indication and assigned to a CO line, the corresponding contact closes whenever that CO line is accessed by a station.

OPERATING PROCEDURE

No special operating procedure is required for this optional feature.

SERVICE CONDITIONS

The system must be equipped with a PFTU to activate one A-Lead indication. The system can have a maximum of two cards.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

SIEMENS KEY SYSTEMS

SECTION: 40/80

FEATURE DESCRIPTION

Stations allowed to make pages may make voice paging announcements to all idle stations, phone boxes, and external paging ports at the same time.

OPERATING PROCEDURE

- a. Lift handset and dial the paging code (*0) or press programmed button.
- b. Speak in normal tone of voice to deliver message.

SERVICE CONDITIONS

- The system must be equipped with an APB card to activate External Paging. a.
- b. One page can be activated at a time.
- Page Warning Tone Determines whether a page warning tone is sounded over the Key C. Telephone speakers or external paging speakers.

Default is yes.

- d. Page Timeout Timer - Determines the maximum length of a page. The system will automatically disconnect the page at the end of this time unless the person making the page has already hung up.
 - Default is 15 seconds and is variable from 01 to 60 seconds. A 00 entry disables the timer and pages will not be limited in length.
- Page Access Stations can individually be allowed or denied the ability to make pages. Allowed by e. default.
- f. When using external equipment to activate multi-zone and/or talk-back paging through the APB card, you may not use "ALL CALL PAGING"

DISPLAY INDICATION

CALLING STATION DISPLAY

CALLING STATION DISPLAY

ALL CALL PAGE 12/06/88 10:48 am

PAGE FROM STA 105 12/06/88 10:45 am

AMPLIFIED HANDSET

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

An amplified adapter may be connected to the Siemens Key Set handset to provide amplification for hearing impaired users or for use in noisy environments.

OPERATING PROCEDURE

The suggested amplified adapter, Plantronics/Walker W-10 unit, has a rotary volume control to adjust the volume higher or lower.

SERVICE CONDITIONS

One Plantronics/Walker W-10 unit must be purchased per station requiring amplification.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the idle mode, the following display is shown:

Station 100 12/10/88 09:45 am

ANNOUNCEMENT INTERFACE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Recorded Announcement (RAN) feature is used with the Uniform Call Distribution (UCD) feature to provide a Recorded Announcement to unanswered incoming CO calls or calls waiting in queue for an available UCD station. The system can be programmed to connect the waiting caller to a different RAN port for the second and subsequent RAN messages.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The RAN feature is used with the (UCD) feature to provide a Recorded Announcement to unanswered incoming CO calls or calls waiting in queue for an available UCD station. The System may be programmed to provide this announcement at specified RAN output ports on the System (unused SLD and COI ports, and the APB RAN port). The System can be programmed to connect the waiting caller to a different RAN port for the second and subsequent RAN messages.

For connections made on the MOD 3 modular jack of the Applications Board (APB), the VT and VR pair connect to the customer supplied Recorded Announcement device. The CTLT and CTLR pair are the control contacts that provide closure (momentary) when a call is connected to the RAN voice pair (VT, VR). The Sense leads are used by the 40/80 system to detect contact closure provided by the RAN device when the message is completed.

When a CO line port is used, a 24V dc power source must be connected to the CO line port for the talk battery. A Loud Bell Control contact assigned to that CO line port in programming provides a contact closure to start the Recorded Announcement device.

When an SLT port is used, the RAN device must be configured for ring trip operation. The 90V ac voltage sent to the SLT port is recognized by the RAN device, which then answers the call.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

ATTENDANT OVERFLOW

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Using the Preset Call Forward feature, any station that receives Central Office/PBX/Centrex ringing may have that station forwarded to ring at a another station after a predetermined period of time.

OPERATING PROCEDURE

This feature must be programmed into the system database during programming.

After the second, third, fourth (etc.) station rings, the original station may still answer the ringing line.

SERVICE CONDITIONS

- a. Every station may be programmed to ring at one other station. There is no limit to the number of forwards that one station may receive. Each station must have the line appearance.
- b. The systems default value entry is disabled at all stations. It can be activated on a per-station basis.
- c. The systems timer default value for Preset Call Forward is 30 seconds, and is variable from 00 to 99 seconds. The timer may also be deactivated.

DISPLAY INDICATION

FORWARD RING
LINE 16 09:45 am

ATTENDANT OVERRIDE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The DSS terminal (using MAP 1) provides an override key allowing the attendant with a DSS to ring a busy station or a station in DND. While busy, pressing the override key provides override tone and a five-second delay before voice cut-through to the called party occurs, automatically placing any outside line call on Hold.

OPERATING PROCEDURE

Press the Attendant Override button on the DSS/BLF console.

SERVICE CONDITIONS

- a. A DSS/BLF/DLS terminal programmed in MAP1 can use this system feature.
- b. A maximum of three Mapis could utilize the Feature.
- c. The systems database must be programmed for either YES or NO for this feature. The system default value is NO.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

CALL TO STA 101 08/08/88 09:45 am CALL FROM STA 100 08/08/88 09:45 am

ATTENDANT POSITION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The system identifies a maximum of three programmable stations as attendants for line recalls and attendant features. The first programmed attendant can enter system date and time information as well System Speed numbers from this position without entering the programming mode. The 40/80 System is placed in Night Service by any programmed attendant pressing the DND button.

OPERATING PROCEDURE

Time and Date Programming:

This feature allows the first programmed attendant to set the time and date without entering the programming mode.

Setting System Time and Date:

System time and date must be set by the first programmed attendant.

a. Dial 76 on the dial pad. Confirmation tone is heard.

YYMMDDHHMM

b. Enter date and time as follows:

where:			
	YY = year	00-99	
	MM = month	01-12	
	DD = day	01-31	
	HH = hour	00-23	
	MM = minute	00-59	

When the correct number of digits is entered, confirmation tone is heard and the display updates.

SERVICE CONDITIONS

Three Stations maybe assigned as attendants.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station; For example, if the station is in the idle mode, the following display is shown.

	DATE	_	T T MC	
1	DAIL	œ	TIME	
12/1	.0/88		09:45	am

ATTENDANT RECALL

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A held CO call left unattended by a station recalls the attendant(s) after a programmable period of time. A recalling CO line flashes at a distinctive rate that identifies the originating station of the unanswered call.

OPERATING PROCEDURE

When a recall occurs, the attendant must go off-hook and press a line key, or, if Preferred Line Answer is activated, just go off-hook.

SERVICE CONDITIONS

The systems timer default value for Attendant Recall is one minute, and is variable from 00 to 60 minutes. The timer can also be deactivated.

DISPLAY INDICATION

RECALL FROM STA 101 LINE 16 00:00:05

ATTENDANT SEARCH

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Attendant Search feature enables a user to make a series of intercom calls without hanging up the handset. An intercom connection is switched to another station whenever a DSS key is pressed. Pressing the next DSS key terminates the previous intercom call.

OPERATING PROCEDURE

- a. When attempting to locate a party, press a station key to signal a station.
- b. If the party is not located, press another station key to continue the search, or press the TRANS button and dial the station number.
- c. If the party is not located, press the TRANS button again and dial another station number to continue the search.
- d. When the called party answers, hang up to complete the transfer.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALL TO STA 101 08/08/88 09:45 am

AUTOMATIC CALLBACK

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A station can initiate an automatic callback request to another busy station. As soon as that station becomes idle, the station that left the callback request is signaled.

OPERATING PROCEDURE

If you dial a telephone that is busy or in DND and want to leave a Callback indication:

- a. Press CALL BACK button.
- b. Hang up.
- c. When busy station hangs up, you will be signaled.
- d. Answer the call. The station you called will then be signaled. (If your station is busy when signaled, an automatic MSG WAIT is placed at your phone.)

Only one Callback request can be left at a station; the second request will receive busy.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

CALL BACK FROM STA 100 08/08/88 09:45 am

CALL FROM STA 114 08/08/88 09:45 am

AUTOMATIC HOLD

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Automatic Hold is provided whenever an attendant with a DSS/BLF/DLS console presses a DSS extension or page access button while engaged in a call; or when a key set user presses a programmed DSS or feature key.

OPERATING PROCEDURE

- a. Press station key of the party to be called (if programmed at your phone); or dial the station number (100 to 179).
- b. Ringing is heard if the called station is in the T answering mode; or three bursts of tone are heard if the called station is in the H or P position.
- c. Lift handset or use speakerphone; tone bursts stop.
- d. Hang up to end call.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALL TO STA 101 08/08/88 09:45 am

AUTOMATIC LINE SELECTION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

With Automatic Line Selection, the user can select an outside line, intercom station, speed dial button, or dial a feature and automatically place the phone in the dialing mode without pressing the ON/OFF button or lifting the handset.

OPERATING PROCEDURE

- a. Press outside line button.
- b. ON/OFF button lights and dial tone is heard.
- c. Dial desired party.
- d. When called party answers, lift handset to speak or use speakerphone.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

18005551212 LINE 16 00:00:05

SIEMENS KEY SYSTEMS SECTION: 40/80

AUTOMATIC PAUSE INSERTION

FEATURE DESCRIPTION

If a flash is programmed into system and station speed dial numbers and last number redial numbers, a pause is automatically inserted after the flash. A pause is also automatically inserted after a PBX/Centrex dialing code is used and after a pulse to tone switchover is programmed into speed dial numbers.

OPERATING PROCEDURE

While programming speed dial, press the HOLD button.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

9500777P1234567 SPEED 10 09:45 am

AUTOMATIC PRIVACY

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Privacy is automatically provided on all calls. If one station is conversing, another station cannot intrude on that line. The Automatic Privacy feature can be disabled, allowing another station to join in on existing CO line conversations.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system default value entry is enabled for all stations. It can be deactivated on a per-system basis by the installer.
- b. Three tone bursts are heard by both stations and the outside party. The tone cannot be disabled.
- c. Only one station may be added to an existing conversation between an outside caller and internal station.

DISPLAY INDICATION

xxx105xxx Line 1 00:00:00

AUTOMATIC PRIVACY RELEASE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Privacy is automatically provided on all communications in the system. If desired, the system can be programmed to eliminate privacy, allowing any station to join an existing Central Office/PBX/Centrex line conversation.

OPERATING PROCEDURE

When privacy is set, a busy tone is heard when a station user tries to enter a conversation. When privacy is not set, a station user may go off-hook and enter a conversation by pressing a Central Office/PBX/Centrex line.

SERVICE CONDITIONS

- a. The systems default value entry is enabled for the system. It can be deactivated on a per-system basis.
- b. Three tone bursts are heard by both stations and the outside party cannot be disabled.
- c. Only one station may be added to an existing conversation between a outside caller and internal station.

DISPLAY INDICATION

xxx105xxx LINE 1 00:00:00

BACKGROUND MUSIC

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Key telephone and phone box users may receive music over their speakers when an optional music source is connected to the system. The music can be turned on or off and the volume adjusted at each key telephone or phone box. The maximum loudness level can be adjusted on the KSU.

This feature can be allowed or denied on a system-wide basis by programming.

Phone boxes are programmed for music by disabling DND at the station.

OPERATING PROCEDURE

- a. Press [77] on the dial pad or programmable button (music is heard)
- b. Press [77] or programmable button again and music is discontinued. (When you pick up the handset or press the ON/OFF button, music is discontinued automatically.)

SERVICE CONDITIONS

The suggested music source is the Valcom V-2950 FM Tuner. The same music source can be used concurrently as a Music-On-Hold and as background music for a paging system.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station; For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

Bulground Music + Most are 2 separate features

SIEMENS KEY SYSTEMS SECTION: 40/80

BATTERY BACK-UP (MEMORY)

FEATURE DESCRIPTION

A long-life lithium battery is provided inside the KSU to prevent loss of system programming in the event of a power failure or the system power being turned off.

OPERATING PROCEDURE

This feature activates automatically upon a power failure condition.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When the optional Battery Charging Card and maintenance-free batteries are installed, full system power can be maintained in the event of commercial power failure. Calls in progress when power fails will continue without interruption. The batteries are recharged when the system returns to normal AC operation.

OPERATING PROCEDURE

This feature activates automatically upon a power failure condition.

SERVICE CONDITIONS

- a. The system must be equipped with a BCB card and batteries.
- b. The duration of battery backup is based on the configuration of the system and the size of the battery. Three different configurations are available: 7, 14, and 40 amperes.

Battery Backup Chart (CO Lines Ports/Station Ports)

Battery Amp- Hour Rating	Configuration		
	16x32	24x48	40x80
7 AH	1-1/2 HR.	1 HR.	20 MIN.
14 AH	2-1/2 HR.	2 HR.	1 HR.
40 AH	7 HR.	5-1/2 HR.	3 HR.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

BUSY LAMP FIELD - CONSOLE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each station key on the DSS console has a corresponding indicator that shows whether the station is idle or busy. The indicator is lit when the station is idle. A station in DND mode is shown by a flashing indicator (MAP 1 or 2 only).

OPERATING PROCEDURE

Busy Station indications are provided while a station is in use.

SERVICE CONDITIONS

- a. Each DSS/BLF/DLS requires one port from either the KSB or KSB/OHV.
- b. Each DSS/BLF/DLS requires one three-pair cable run.
- c. The only limitation to the number of consoles is the number of spare KIB parts in the system.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

BUSY LAMP FIELD - STATION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When a button on a Key Telephone is assigned as a DSS, it also serves as a Busy Lamp Field to display the status of the telephone.

OPERATING PROCEDURE

After the station user assigns a button as DSS/BLF, the user has a BLF to the assigned station.

SERVICE CONDITIONS

The installation must program a button as a multi-function button and then the station user program his/her button as a DSS by pressing the speed call button twice the line button and dial the intercom number.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

CALL ANNOUNCING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone user can select the way that calls to his telephone are voice announced. By selecting the P position on the intercom signal switch, the user can receive voice-announced intercom calls without the calling party hearing conversations in progress. By selecting the H position, the user can reply handsfree to voice-announced intercom calls.

OPERATING PROCEDURE

With the intercom signal switch in the T mode, repeated bursts of intercom tone ringing are heard, and the HOLD button flashes slowly.

- a. Lift handset or press ON/OFF button to answer. If you receive a call from a Phone Box, press the DSS button to answer the call.
- b. Hang up to end the call.

In the P mode, three bursts of tone are heard, and one-way announcement is enabled. The HOLD button flashes slowly, and the calling party cannot hear conversations in progress.

In the H mode, three bursts of tone and an announcement are heard. Reply handsfree, or lift handset for privacy.

SERVICE CONDITIONS

There are no special service conditions required for this feature.

DISPLAY INDICATION

CALL FROM STA 100 08/08/88 09:45 am

CALL ANNOUNCING PRIVACY

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone user can select the way that calls to his telephone are voice announced. By selecting the P position on the intercom signal switch, the user can receive voice-announced intercom calls without the calling party hearing conversations in progress. By selecting the H position, the user can reply handsfree to voice-announced intercom calls.

OPERATING PROCEDURE

With the intercom signal switch in the T mode, repeated bursts of intercom tone ringing are heard, and the HOLD button flashes slowly.

- a. Lift handset or press ON/OFF button to answer. If you receive a call from a Phone Box, press the DSS button to answer the call.
- b. Hang up to end the call.

In the P mode, three bursts of tone are heard and one-way announcement is enabled. The HOLD button flashes slowly, and the calling party cannot hear conversations in progress.

In the H mode, three bursts of tone and an announcement are heard. Reply handsfree or lift handset for privacy.

SERVICE CONDITIONS

There are no special service conditions required for this feature.

DISPLAY INDICATION

CALL FROM STA 100 08/08/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

CALL ANNOUNCING HANDSFREE ANSWERBACK

FEATURE DESCRIPTION

Each telephone user can select the way that calls to his telephone are voice announced. By selecting the P position on the intercom signal switch, the user can receive voice-announced intercom calls without the calling party hearing conversations in progress. By selecting the H position, the user can reply handsfree to voice-announced intercom calls.

OPERATING PROCEDURE

With the intercom signal switch in the T mode, repeated bursts of intercom tone ringing are heard, and the HOLD button flashes slowly.

- a. Lift handset or press ON/OFF button to answer. If you receive a call from a Phone Box, press the DSS button to answer the call.
- b. Hang up to end the call.

In the P mode, three bursts of tone are heard and one-way announcement is enabled. The HOLD button flashes slowly, and the calling party cannot hear conversations in progress.

In the H mode, three bursts of tone and an announcement are heard. Reply handsfree or lift handset for privacy.

SERVICE CONDITIONS

There are no special service conditions required for this feature.

DISPLAY INDICATION

CALL FROM STA 100 08/08/88 09:45 am

SIEMENS KEY SYSTEMS

SECTION: 40/80

FEATURE DESCRIPTION

An automatic callback request can be left at a busy station or a station in DND. The initiating station is automatically signaled when the called station returns to idle status.

OPERATING PROCEDURE

If you dial a telephone that is busy or in DND and want to leave a Callback indication:

- a. Press CALL BACK button.
- b. Hang up. When busy station hangs up, you will be signaled.
- c. Answer call. The station you called will then be signaled. (If your station is busy when signaled, an automatic MSG WAIT is placed at your telephone.)

Only one Callback request can be left at a station; the second request will receive busy.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

CALL BACK FROM STA 100 08/08/88 09:45 am

CALL FROM STA 114 08/08/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

CALL FORWARD - BOSS/SECRETARY (EXECUTIVE/SECRETARY TRANSFER)

FEATURE DESCRIPTION

Four pairs of key stations can be designated as executive/ secretary pairs. Whenever the executive telephone is in DND or busy, transferred Central Office/PBX/Centrex lines and intercom calls are directed to the secretary station. If the secretary station is busy, the calling party receives a busy signal. The secretary station may override the forward.

The programming may be set in one of three ways:

- a. Four executives to one secretary, or
- b. One executive to four secretaries, or
- Four executives to four secretaries.

OPERATING PROCEDURE

This feature must be preprogrammed. If the station user is busy or in DND, the call is forwarded.

SERVICE CONDITIONS

The feature must be enabled on a per-station basis.

DISPLAY INDICATION

Station Call	CALLING STATION'S DISPLAY	CALLED STATION'S DISPLAY
Station Call Forward (Originating Station)	FORWARDED TO STA 107 08/08/88 09:45 am	
Station)		_

Forwarded Call FORWARDED TO STA 100 CALL FROM STA 100 VIA STA 110 09:45 am

CALL FORWARD - PRESET

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

System programming allows incoming CO/PBX/CENTREX lines that are programmed to ring a particular station to be forwarded to another predetermined station after a programmed period of time. This occurs when the station normally receiving the outside ring is busy or does not answer the call. Preset forward can be chained an unlimited number of times. Each station in the system can have a preset forward station.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign forward location and the period of time to be forwarded.
- b. The system default value is 10 seconds, and is variable from 00 to 99 seconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

FORWARD RING
LINE 16 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each key telephone user may direct intercom calls, transferred outside lines, and incoming outside lines to be forwarded to another station in the system. A forwarded call will signal in the TONE mode regardless of the way the intercom signaling switch is set. A station with calls forwarded to it can forward its calls to another station. A call can be forwarded in this manner an unlimited number of times.

OPERATING PROCEDURE

To forward a call (if you have been given the ability to forward your calls):

- a. Lift handset or press ON/OFF button.
- b. Press CALL FWD button.
- c. Press station key or dial intercom number (within five seconds) where your calls are to be forwarded.
- d. Hang up.

To remove Call Forwarding:

- a. Lift handset or press ON/OFF button.
- b. Press CALL FWD button.
- c. Press your own station button or dial your own intercom number.
- d. Hang up.

SERVICE CONDITIONS

The systems default value entry is enabled for all stations. It can be deactivated on a per-station basis.

DISPLAY INDICATION

CALLING STATION'S CALLED STATION'S DISPLAY

Station Call Forward (Originating Station)

CALLING STATION'S DISPLAY

DISPLAY

O8/08/88 09:45 am

Station)

Forwarded Call FORWARDED TO STA 100 CALLED 110 09:45 am

CALL FROM STA 100 VIA STA 110 09:45 am

FEATURE DESCRIPTION

An outside line can be placed into one of six parking locations and can be retrieved by any station that has a direct line appearance or an available loop button. Parked calls have their own recall timer and will recall the originating station or, if unanswered, the attendant(s).

OPERATING PROCEDURE

To place an outside call on hold and consult with, page, or call an internal party and/or transfer the outside call:

- a. While connected to an outside line, press TRANS button. The caller is placed on Exclusive hold.
- b. Dial parking location (790 to 795). Confirmation tone is heard.
- c. If you hear busy tone, press TRANS and dial another parking location.

To retrieve a parked call:

- a. Lift handset or press ON/OFF button.
- b. Dial pound [#].
- c. Dial parking location (790 to 795) where the call was parked.

SERVICE CONDITIONS

For Park Recall Time, the system default value is 180 seconds, and is variable from 000 to 600 seconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

Station 100 LINE 1 00:00:01

FEATURE DESCRIPTION

Stations can be placed in one or more of four pickup groups. Stations in the same group can pick up tone ringing intercom calls, recalling or transferred CO/PBX/CENTREX line calls for another station, message wait callbacks, and station callbacks by dialing the pickup code.

OPERATING PROCEDURE

When intercom tone ringing, transferred outside line ringing, or recall ringing is heard at an unattended telephone, lift the handset and press the PICK UP button to be connected to the calling party. You must be in the same pickup group as the ringing telephone to pick up the call.

SERVICE CONDITIONS

Stations must be programmed into one of four pickup groups.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

STATION THAT PICKED UP DISPLAY

CALL TO 104 PICKED UP BY STA 103 04:15 pm CALL STATION 104 FROM STA 105 04:15 pm

FEATURE DESCRIPTION

An outside line can be transferred from one keyset to another. By pressing the STATION button of the desired party (or the TRANSFER button) and dialing a three-digit station number, screened or unscreened transfers with an announcement can be made. The line being transferred rings on the keyset and gives a flash indication to the receiving party's keyset. Several attempts can be made to find someone at different keysets without losing the call. If a line is transferred to a busy station, that station receives muted ringing.

OPERATING PROCEDURE

Outside lines can be transferred from one telephone to another within the system. The transfer can be either screened (announced) or unscreened to either an idle or busy station.

Screened Transfer

- a. While connected to an outside line, press station button where call is to be transferred (if programmed on your telephone), or press TRANS button and dial the station number (100 to 179).
- b. The called extension signals according to the intercom signal switch position.
- c. When the extension answers, announce the transfer.
- d. Hang up to complete transfer.

Unscreened Transfer

When the called extension begins to signal, hang up to transfer the call (Recall timer starts).

CALL TRANSFER

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED)

Transfer Search

- a. When attempting to locate a party, press a station key to signal a station.
- b. If the party is not located, press another station key to continue the search, or press the TRANS button and dial the station number.
- c. If the party is not located, press the TRANS button again and dial another station number to continue the search.
- d. When the called party answers, hang up to complete the transfer.

To answer a Screened Transfer:

- a. Your intercom is signaling according to the intercom signal switch position.
- b. Answer the intercom and receive the transfer notice.
- Press the outside line button or loop button flashing on hold.

SERVICE CONDITIONS

Either the line being transferred or a loop must be on the telephone the call is being transferred to.

DISPLAY INDICATION

TRANSFER FROM STA 100 LINE 16 09:45 am

CALLING STATION INDICATOR (BUSY LAMP FIELD)

FEATURE DESCRIPTION

Buttons programmed as station buttons on a telephone also serve as a Busy Lamp Field to display the status of other telephones in the system.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Station users may assign their own DSS/BLF position via a multi-purpose button

DISPLAY INDICATION

There is no correlation between this feature and any display indication.

FEATURE DESCRIPTION

A busy station may be alerted that an outside line is on hold and waiting by pressing the CAMP ON button. The called station receives one muted ring, hold flash indication on the waiting line, and a flashing CAMP ON button if the camp-on initiator is waiting to announce the transfer. The busy party can press the CAMP ON button, which automatically places any active outside line on hold and allows him to converse with the camp-on initiator. If the busy party does not answer the camp-on, the camp-on initiator is recalled after the programmable period of time expires. Only the attendant can camp-on to a station in the DND mode. A camp-on cannot be made to a station in conference. The station designated EXECUTIVE in an Executive/Secretary pair can be camped-on only by the corresponding secretary.

OPERATING PROCEDURE

To alert a station when you receive a busy signal:

- a. Press the CAMP ON button.
- b. Called station receives two bursts of ringing.
- c. Wait for response.

If the called station is in DND, only the attendant can Camp On.

To Answer a Camp On:

If you hear two bursts of muted ringing while you are on a connected call, and your CAMP ON button is flashing, you have a call waiting.

- a. To answer, press the CAMP ON button.
- b. Any outside line you are connected to is placed on hold. You may converse with the station placing the call.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CAMP-ON BY STA 100 08/08/88 09:45 am

CAMP ON RECALL

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

If a station does not answer a Camp On, the calling station is recalled. If the calling station does not answer, the attendant(s) is recalled.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value is one minute, and is variable from 00 to 60 minutes. The timer can be deactivated by the installer.

DISPLAY INDICATION

RECALL FROM STA 101 LINE 16 00:00:05

CENTRAL OFFICE LINE HUNT

FEATURE DESCRIPTION

Using the Preset Call Forward feature, CO lines programmed to ring on a given telephone can be transferred to another telephone after a period of time. Up to eight transfers are possible.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign forward location(s).
- b. Preset Forward Time The system default value is 10 seconds, and is variable from 00 to 99 seconds.

DISPLAY INDICATION

FORWARD RING
LINE 16 09:45 am

CENTRAL OFFICE LINE RING ASSIGNMENT - DAY

FEATURE DESCRIPTION

Outside lines are assigned to ring at individual stations by programming. Any Key Telephone may be programmed to ring for any outside lines(s) in the Day or Night Mode (or both or neither).

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign the ringing.
- b. CO line(s) must appear on the stations where ringing is required.

DISPLAY INDICATION

LINE RINGING
LINE 16 09:45 am

CENTRAL OFFICE LINE RING ASSIGNMENT - NIGHT

FEATURE DESCRIPTION

Outside lines are assigned to ring at individual stations by programming. Any Key Telephone may be programmed to ring for any outside line(s) in the Day or Night Mode (or both or neither).

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign the ringing.
- b. CO Line(s) must appear on the stations where ringing is required.

DISPLAY INDICATION

LINE RINGING
LINE 16 09:45 am

CENTRAL OFFICE LINE-TO-LINE CONFERENCE

FEATURE DESCRIPTION

Using the Central Office Line-To-Line Conference feature, the conference initiator can exit a conference with two outside parties and leave them in an unsupervised conference. The initiator can re-enter the conference at any time.

A Programmable conference timer disconnects the unsupervised conference if the initiator does not reenter.

OPERATING PROCEDURE

- a. Lift handset.
- b. Dial desired party.
- c. Press CONF button.
- d. Add next conference party by selecting another line.
- e. When party answers, press CONF button.
- f. All parties are connected.

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. The system default value is 10 minutes, and is variable from 00 to 99 minutes. The timer can be deactivated by the installer.
- c. Single Line Telephones or OPXs cannot establish a conference with two central office lines.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 am

CENTRAL OFFICE RING DETECT

FEATURE DESCRIPTION

The duration of the ringing signal from the Central Office is matched with ringing detection circuitry in the KSU. The ring detect can range from 200 to 900 milliseconds, programmed in 100 millisecond increments. This timer helps prevent false ringing.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value is 300 milliseconds, and is variable from 200 to 900 milliseconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

CENTRAL OFFICE LINE ACCESS

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone can be programmed to be allowed or denied an appearance to individual outside lines or a pool of outside lines. Telephones denied this appearance can have that line transferred to them by another station, and the call will appear on the loop button.

Telephones can be programmed to answer calls on a particular line but not make calls on that line. Any station may be programmed to ring for any combination of lines during the day, and different stations can be programmed to ring on those lines at night.

OPERATING PROCEDURE

To answer a Central Office Call:

- Lift handset. a.
- Press slow flashing outside line button. (If your phone is programmed with Preferred Line Answer, b. you may answer an outside line by lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

When manually dialing outgoing calls:

18005551212 LINE 16 00:00:05

CENTRAL OFFICE LINE GROUPING

FEATURE DESCRIPTION

CO (outside) lines can be in one of up to seven groups to separate line types such as local, PBX, or FX. Stations are then individually assigned access to these lines via pooled group key.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Lines must preprogrammed into line groups.

DISPLAY INDICATION

POOL GROUP 1 LINE 16 09:45 am

CENTRAL OFFICE LINE QUEUING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When all Central Office lines in a group are busy, stations can be placed on a queue (list) waiting for that line to become available. Users are signaled when a line becomes available. If the waiting station is busy when the queued CO line becomes available, the station is placed at the bottom of the queue list. Three attempts are made to reach a busy station before that station is dropped from the queue list. If a station does not answer the queue signal in 15 seconds, that station is dropped from the queue list.

OPERATING PROCEDURE

A station can queue only one line at a time. If you see that a Central Office line is busy and wish to be placed in a queue waiting for that line to become available:

- a. Lift handset.
- b. Press LINE QUE button.
- c. Press desired busy outside line button or pool access button.
- d. Hang up.

To cancel a queue:

- a. Lift handset or press ON/OFF button.
- b. Press LINE QUE button.

To answer a ringing outside line of the line group you queued (when the line is slow flashing):

- a. Lift handset.
- b. Press flashing outside line button to answer. (If your station is programmed for Preferred Line Answer, you will have the line automatically upon lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

PLACED IN QUEUE FOR LINE 16 09:45 am

QUEUE CALLBACK
LINE 16 09:45 am

CENTREX FEATURE ACTIVATIONS BUTTON

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Using either station or system speed call, Centrex Feature Codes can be programmed as buttons for easier use. Each speed call buffer could include a hook flash, pound (#), asterisk (*), and digits.

OPERATING PROCEDURE

- a. Press SPEED CALL once, then press the desired outside line key; or select an outside line automatically by pressing the SPEED CALL button a second time.
- b. Dial the speed bin location (00 to 19 for Station Speed numbers; 20 to 99 for System Speed numbers).
- c. Dial telephone number.
- d. Press SPEED CALL.
- e. Hang up.

Pressing the TRANS button during number entry initiates a Pulse-To-Tone switchover. Pressing the HOLD button during number entry inserts a Pause. Pressing the FLASH key inserts a Flash into the speed number. Pressing the TRANS button as the first entry in the speed bin inserts a no-display character causing the numbers stored in the bin not to appear on the Key Telephone's display when the bin is accessed.

Station Speed numbers can be entered by keyset users. System Speed numbers must be entered by the first programmed attendant. If no attendant is specified, enter at Station 100.

If no outside line was specified in programming, one is chosen automatically, or you can choose one now.

- a. Press SPEED CALL button and dial bin location, or press programmed speed bin button. Station Speed numbers are 00 to 19. System Speed numbers are 20 to 99.
- b. When called party answers, pick up handset or use speakerphone.

SERVICE CONDITIONS

There are no special service conditions required for this Standard feature.

DISPLAY INDICATION

9947974 SPEED 10 10:45 am

CENTREX LINE ACCESS

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone can be programmed to be allowed or denied an appearance to individual Centrex lines or a pool of Centrex lines. Telephones denied this appearance can have that line transferred to them by another station, and the call will appear on the loop button.

Telephones can be programmed to answer calls on a particular line, but not make calls on that line. Any station can be programmed to ring for any combination of lines during the day and different stations can be programmed to ring on those lines at night.

OPERATING PROCEDURE

To answer a Centrex Call:

- a. Lift handset.
- b. Press slow flashing outside line button. (If your phone is programmed with Preferred Line Answer, you may answer an outside line by lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

When manually dialing outgoing calls:

18005551212 LINE 16 00:00:05

CENTREX HUNT LINE

FEATURE DESCRIPTION

Using the Preset Call Forward feature, Centrex lines programmed to ring on a given telephone can be transferred to another telephone after a period of time. Up to eight transfers are possible.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign forward locations(s).
- b. Preset Forward Timer value is 10 seconds, and is variable from 00 to 99 seconds.

DISPLAY INDICATION

FORWARD RING
LINE 16 09:45 am

CENTREX LINE GROUPING

FEATURE DESCRIPTION

Centrex lines can be in one of up to seven groups to separate line types. Stations are then individually assigned access to these lines via pooled group key.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Lines must be preprogrammed into line groups.

DISPLAY INDICATION

918005437309

LINE 16

XX:XX:XX

CENTREX LINE QUEUING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When all Centrex lines in a group are busy, stations can be placed in a queue waiting for a line to become available. Queued users are signaled when a line becomes available. If the waiting station is busy when the queued Centrex line becomes available, the station is place at the bottom of the queue list. Three attempts are made to reach a busy station before that station is dropped from the queue list. If a station does not answer the queue signal in 15 seconds, that station is dropped from the queue list.

OPERATING PROCEDURE

A station can queue only one line at a time. If you see that a particular outside line is busy and you wish to be placed in a queue waiting for that line to become available:

- a. Lift handset.
- b. Press LINE QUE button.
- c. Press desired busy Centrex line button or pooled access button.
- d. Hang up.

To cancel a queue:

- a. Lift handset or press ON/OFF button.
- b. Press LINE QUE button.

To answer a queue on an outside line of the line group you queued when it is slow flashing:

- a. Lift handset.
- b. Press flashing outside line button to answer. (If your station is programmed for Preferred Line Answer, you will have the line automatically upon lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

PLACED IN QUEUE FOR LINE 16 09:45 am

QUEUE CALLBACK
LINE 16 09:45 am

CENTREX LINE TO LINE CONFERENCE

FEATURE DESCRIPTION

The conference initiator can exit a conference with two outside parties and leave them in an unsupervised conference. The initiator can re-enter the conference at any time.

A programmable conference timer disconnects the unsupervised conference if the initiator does not reenter.

OPERATING PROCEDURE

- a. Lift handset.
- b. Dial desired party.
- c. Press CONF button.
- d. Add next conference party by selecting another line.
- e. When party answers, press CONF button.
- f. All parties are connected.

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. The system default value is 10 minutes, and is variable from 00 to 99 minutes. The timer can be deactivated by the installer.
- c. Single Line Telephones or OPXs cannot establish a conference with two centrex lines.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 am

CENTREX DETECT RING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The duration of the ringing signal from the CO Centrex is matched with ringing detection circuitry in the KSU. The ring detect can range from 200 to 900 milliseconds, programmed in 100 millisecond increments. This timer helps prevent false ringing.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value is 300 milliseconds, and is variable from 200 to 900 milliseconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

SIEMENS KEY SYSTEMS COMMON AUDIBLE RINGING (LOUD BELL CONTROL) SECTION: 40/80

FEATURE DESCRIPTION

Incoming Central Office/PBX/CENTREX line ringing can be directed to relay-controlled contacts. There are two sets of dry contacts that can be assigned to stations as loud bell control (LBC) or to Central Office lines for A-lead indication. An external power source and ringing device is required.

OPERATING PROCEDURE

The system must be programmed to provide common Audible Ringing or A Lead control.

SERVICE CONDITIONS

One set of relay controlled contacts is standard on every Power Failure Transfer Unit (PFTU) card. A maximum of two PFTU cards can be used.

DISPLAY INDICATION

No special indication is provided for this system related feature.

DIAL PULSE SERVICE

FEATURE DESCRIPTION

Each CO/CENTREX/PBX interface circuit for lines can be individually programmed to send either DTMF (Tone) or dial pulse.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

The 40/80 system must be programmed for either DTMF or dial pulse on a per line basis.

DISPLAY INDICATION

DIAL PULSE TO TONE SWITCHOVER

FEATURE DESCRIPTION

The signaling on an outside line can be changed from dial pulse to tone (DTMF). This allows pulse telephones to use common carriers which require DTMF signaling. This feature can be stored and used with speed dial numbers.

OPERATING PROCEDURE

While programming speed dial, press the TRANS key.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

9500777S1234567 SPEED 10 09:45 am

DIRECT INWARD SYSTEM ACCESS (DISA)

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

DISA allows as many as three simultaneous outside line calls to be programmed to provide direct access to the system. Features such as WATS lines, intercom dial tone, and the ability to dial out on outgoing trunks without going through the attendant are also allowed. DISA caller that attempts to call a station that is busy can dial other stations without having to dial into the system again. A security code can be assigned to restrict unwanted use of the DISA circuits. Each DISA line can be programmed independently for 24-hour DISA use, or night DISA use only. An APB card is required to provide the DISA feature.

OPERATING PROCEDURE

No special operating procedure is required.

SERVICE CONDITIONS

- a. An APB card must be installed for this option.
- b. Feature Package IV or V is required for this feature.
- c. Up to three Line-to-Line conferences or DISA calls in any combination can be active simultaneously.

DISPLAY INDICATION

DIRECT STATION SELECT

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The user with a flexible button assigned as a DSS button on a key telephone can call an intercom station by pressing the appropriate DSS button. The called station is automatically signaled.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Station users may assign their own DSS/BLF position via a multi-purpose button.

DISPLAY INDICATION

There is no correlation between this feature and any display indication.

DIRECTED CALL PICK UP

FEATURE DESCRIPTION

A station can pick up an intercom call, a transferred outside line call, or incoming outside line ringing on a specific unattended station. The call must be a tone ringing call.

OPERATING PROCEDURE

When incoming, transferred or recalling outside line, intercom, or Camp On ringing is heard at an unattended telephone:

- a. Dial the station number of the ringing telephone.
- b. A busy tone is heard.
- c. Press the PICK UP button to answer the call.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALL TO 100 PICKED UP FROM STA 112 09:45 am CALLED STATION'S DISPLAY

CALL TO STA 100 FROM STA 112 09:45 am

XFER TO ST 100 PICKED UP LINE 16 09:45 am

DIRECTORY TRAY

FEATURE DESCRIPTION

Each telephone comes standard with a directory tray located under the telephone to list speed dial codes or telephone numbers.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

This tray is not operational when the telephone is wall mounted.

DISPLAY INDICATION

No display is assigned to this feature.

DIRECT STATION SELECT (DSS/DLS/BLF) CONSOLE

FEATURE DESCRIPTION

Each DSS terminal can be programmed in one of three ways:

- a. MAP 1. Stations 100 through 139 appear in sequential order. The bottom two rows of buttons (eight buttons) include two fixed (Attendant Override and Release) feature buttons and six flexible buttons.
- b. MAP 2. Station 140 through 179 appear in sequential order. The bottom two rows (eight buttons) are flexible.
- c. MAP 3. CO Line buttons 1 through 40 appear in sequential order. The bottom two rows (eight buttons) are flexible.

OPERATING PROCEDURE

Normal DSS/BLF functions.

SERVICE CONDITIONS

- a. The system must be programmed to accept DSS/DLS/BLF.
- b. Each DSS/BLF requires one KIB interface port.
- c. Three terminals can be assigned per station.
- d. A maximum of three MAP 1s can use attendant Override and Release.
- e. A maximum of 60 terminals (20 stations, 20 MAP 1s, 20 MAP 2s and 20 MAP 3s) equal 80 KIB ports.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

FEATURE DESCRIPTION

Placing a key telephone in Do Not Disturb (DND) eliminates incoming CO line ringing, intercom calls, CO line transfers, and All Call Page announcements on Camp-Ons. Pressing the DND button while the telephone is ringing eliminates that ringing. The secretary in an EXECUTIVE/SECRETARY pair can override the Executive DND by using the Camp-On feature. A station in DND can still use the telephone to make normal outgoing calls. A station can be denied this feature by programming.

OPERATING PROCEDURE

To activate Do Not Disturb:

- a. If you have been given the ability to place your phone in Do Not Disturb, press the DND button (DO NOT lift the handset).
- b. DND button lights steady.
- c. Press the DND button while your telephone is ringing to stop the ringing.

To remove Do Not Disturb:

- a. Remain on-hook.
- b. Press DND button.
- c. The button indicator goes off.

SERVICE CONDITIONS

The system default value entry is enabled for all stations. It can be deactivated on a per-station basis by the installer.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

DO NOT DISTURB STA 110 08/08/88 09:45 am

STA IN DO NOT DISTURB 08/08/88 09:45 am

DSS/CO AUTOMATIC LINE SELECT

FEATURE DESCRIPTION

The user can select an outside line, intercom station, or speed dial button and automatically place the telephone in the dialing mode without pressing the ON/OFF button or lifting the handset.

OPERATING PROCEDURE

Select a line button, dial an intercom or utilized Feature Key.

SERVICE CONDITIONS

No special service conditions are required for this feature.

DISPLAY INDICATION

CALL TO STA 101 108/08/88 09:45 am

DTMF SENDING

FEATURE DESCRIPTION

Each CO/CENTREX/PBX interface circuit for lines can be individually programmed to send DTMF (Tone) or dial pulse.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The 40/80 system must be programmed for either DTMF or Dial pulse on a per line basis.

DISPLAY INDICATION

DTMF SERVICE

FEATURE DESCRIPTION

Each CO/CENTREX/PBX interface circuit for lines can be individually programmed to send DTMF (Tone) or dial pulse.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

The 40/80 system must be programmed for either DTMF or dial pulse basis.

DISPLAY INDICATION

EMERGENCY TRANSFER

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Two Power Failure Transfer cards may be installed so that in case of a power failure, up to twelve CO lines can be automatically connected to specified single line telephones (SLT).

OPERATING PROCEDURE

This feature activates automatically upon a power failure condition.

SERVICE CONDITIONS

A maximum of two optional Power Failure Transfer (PFT) units can be installed in the Basic KSU. In the event of a commercial power failure, up to six CO/PBX lines per PFT can automatically transfer to SLTs for emergency communications. These SLTs can be either rotary or DTMF, but they must be equipped with CO-powered ringers. These SLT stations do not have to be used for intercom, but can be if so desired.

DISPLAY INDICATION

EXCLUSIVE HOLD

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When a line is placed on Exclusive Hold, no other station in the system can retrieve the call.

OPERATING PROCEDURE

Press the HOLD button either once or twice depending on how the system is programmed.

SERVICE CONDITIONS

The system must be programmed to determine which HOLD is the primary Hold.

DISPLAY INDICATION

LINE HOLDING
LINE 16 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

EXECUTIVE/SECRETARY TRANSFER

FEATURE DESCRIPTION

Four pairs of key telephones can be designated as executive/ secretary pairs. Whenever the executive telephone is in DND or busy, transferred CO/PBX/CENTREX lines and intercom calls are directed to the secretary station. If the secretary station is busy, a busy tone is received by the calling party. There are three combinations possible:

- a. Four pairs of Executive/Secretary pools
- b. One executive with one to four secretaries
- c. One Secretary for one to four executives.

The secretary station can signal the Executive in DND by using the Camp On feature.

OPERATING PROCEDURE

- a. If you are designated the Executive station and your telephone is busy or in DND, all calls are routed to the Secretary station.
- b. If you are the designated Secretary station, you can signal the Executive that is busy or in DND by using the Camp On feature.

SERVICE CONDITION

Four sets of Transfers must be preprogrammed into the database.

DISPLAY INDICATION

CALLING STATION'S CALLED STATION'S
DISPLAY

Station Call
Forward
(Originating Station)

CALLED STATION'S
DISPLAY

ORIGINATION'S

Forwarded FO CALL CAL

FORWARDED TO STA 100 CALLED 110 09:45 am

CALL FROM STA 100 VIA STA 110 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Siemens 40/80 hybrid key system can provide one-way or two-way paging, as well as multi-zone paging through its non-linear page port. Up to 36 zones could be accessed utilizing external equipment.

OPERATING PROCEDURE

A station off-hook or in DND will not hear the page.

- a. Dial the two-digit paging code, or press programmed button.
- b. Speak in normal tone of voice to deliver message:
 - *1 Internal Zone 1
 - *2 Internal Zone 2
 - *3 internal Zone 3
 - *4 Internal Zone 4
 - *5 Internal All Call
 - *6 External Zone
 - *0 All Call (When using multizone or talkback paging it is not suggested to use ALL CALL)

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- Valcom Equipment is recommended for two-way and multi-zone paging.
- c. One page can be activated at a time.
- d. Page Warning Tone Determines whether a page warning tone is sounded over the Key Telephone speaker or external paging speakers. Default is yes.
- e. Page Timeout Timer Determines the maximum length of a page. The system automatically disconnects the page at the end of this time unless the person making the page has already hung up.

Default is 15 seconds and is variable from 01 to 60 seconds. A 00 entry disables the timer so that pages are not limited in length.

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED)

EXTERNAL PAGING ACCESS - TWO-WAY

- f. Page Access Stations can individually be allowed or denied the ability to make pages. Allowed by default.
- g. When using external equipment to activate multi-zone and/or talkback paging through the APB card, ALL CARD PAGING cannot be used.

DISPLAY INDICATION:

CALLING STATION'S
DISPLAY

CALLED STATION'S DISPLAY

ALL CALL PAGE 12/06/88 10:48 am PAGE FROM STA 105 12/06/88 10:48 am

EXTERNAL PAGING ACCESS - ONE-WAY

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Siemens 40/80 hybrid key system can provide one-way or two-way paging, as well as multi-zone paging through its non-linear page port.

OPERATING PROCEDURE

A station off-hook or in DND cannot hear the page.

- a. Dial the two-digit paging code, or press programmed button.
- b. Speak in normal tone of voice to deliver message:
 - *1 Internal Zone 1
 - *2 Internal Zone 2
 - *3 Internal Zone 3
 - *4 Internal Zone 4
 - *5 Internal All Call
 - *6 External Zone
 - *0 All Call

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. A Valcom V-1094 is recommended for one way paging without background music.
- c. One page can be activated at a time.
- d. Page Warning Tone Determines whether a page warning tone is sounded over the Key Telephone speaker or external paging speakers.
- e. Page Timeout Timer Determines the maximum length of a page. The system will automatically disconnect the page at the end of this time unless the person making the page has already hung up.
 - Default is 15 seconds and is variable from 01 to 60 seconds. A 00 entry disables the timer and pages will not be limited in length.
- f. Page Access Stations can individually be allowed or denied the ability to make pages. Allowed by default.
- g. When using external equipment to activate multi-zone and/or talkback paging through the APB card, you may not use "ALL CALL PAGING."

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED) **EXTERNAL PAGING ACCESS - ONE-WAY**

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

ALL CALL PAGE 12/06/88 10:48 am

PAGE FROM STA 105 12/06/88 10:48 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FLASH

FEATURE DESCRIPTION

The Flash feature enables telephone users to terminate an outside call or transfer a call behind a PBX and restore dial tone without hanging up the handset. A FLASH button is located on each key telephone.

OPERATING PROCEDURE

When connected to an outside line, press FLASH button to disconnect outside line and reseize outside line dial tone.

SERVICE CONDITIONS

- a. Hook Flash Timer This timer determines the length of time needed to determine a valid on-hook or off-hook condition.
- b. The timer is variable from 000 to 100 milliseconds.
- c. Default is 010 milliseconds.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FLASH WITH SPEED DIAL

FEATURE DESCRIPTION

A flash can be programmed within a speed dial number. When this is done, a pause is automatically inserted before the remaining speed dial digits are sent.

OPERATING PROCEDURE

While programming Speed Dial, press the FLASH button to enter the Flash.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

F*105 SPEED 00 11:10 am

FLEXIBLE ATTENDANT

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Any three Key Telephones in the system can be assigned as attendant stations. These stations will receive recalls and can place the system in Night Service.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system must be programmed to identify the attendants.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

SIEMENS KEY SYSTEMS

FLEXIBLE BUTTONS

SECTION: 40/80

FEATURE DESCRIPTION

There are 14 fixed feature buttons and 20 flexible buttons. The flexible buttons can be programmed in one of the following ways:

- a. Outside line automatically access assigned CO/PBX/CENTREX line.
- b. Multi-Function Key the user may program his/her own telephone for DSS/BLF, speed dial bin, or a page key etc.
- c. Pool Key some or all outside CO/PBX/CENTREX lines can be grouped; pressing this button accesses the highest numbered unused CO line in that group.
- d. Loop used to answer a transferred call on a line for which a user does not have a button assigned, LCR, Pickup and UNA.

OPERATING PROCEDURE

To Program Flexible Buttons:

- a. Lift handset or press ON/OFF.
- b. Press asterisk (*) twice.
- c. Press button to be programmed. (It must have been programmed in the database as a flexible button.)
- d. Dial desired code.
- e. Press HOLD.

Button programming codes:

DSS/BLF

100 to 179

Speed Number:

SPEED CALL plus bin no

(00 to 19 = station speed bins) (20 to 99 = system speed bins)

Paging

Paging Code

Account Code

80

Call Park

790 to 795

Music Last Number Redial

77

Save Number Redial

SPEED CALL plus #

SPEED CALL plus *

FLEXIBLE BUTTONS

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED)

Personalized Messages:

78 plus two digits:

00 - clears messages

01 - VACATION

02 - RETURN MORNING

03 - RETURN AFTERNOON

04 - RETURN TOMORROW

05 - RETURN NEXT WEEK

06 - BUSINESS TRIP

07 - MEETING

08 - HOME

09 - ON BREAK

10 - LUNCH

NOTE

The speed bin must be programmed with a number before a flexible button can be assigned as a speed button.

SERVICE CONDITIONS

The buttons must be preprogrammed by the installer as multi-purpose buttons.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

GROUP CALL PICKUP

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Stations placed in one or more groups can pick up incoming tone ringing intercom calls and recalling or transferred CO Lines from a keyset or Single Line Telephone in the same group.

OPERATING PROCEDURE

When intercom tone ringing, transferred outside line ringing, or recall ringing is heard at an unattended telephone, lift the handset and press the PICK UP button to be connected to the calling party. You must be in the same pickup group as the ringing telephone to pick up the call.

SERVICE CONDITIONS

Stations must be programmed into one of four pickup groups.

DISPLAY INDICATION

CALLING STATION'S
DISPLAY

CALLED STATION'S DISPLAY

CALL TO 100 PICKED UP FROM STA 112 09:45 am

CALL TO STA 100 FROM STA 112 09:45 am

XFER TO ST 100 PICKED UP LINE 16 09:45 am

FEATURE DESCRIPTION

The 40/80 Key Telephones have been designed to operate with industry-standard Electret microphone-compatible modular headset adapters and operator headsets. To modify a Key Telephone to support an external headset, plug the headset adapter cord into the vacant handset jack on the Key Telephone base. Plug the telephone handset cord into the headset adapter box as indicated by the headset manufacturer's instructions.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Speakerphone operation must be disabled to allow headset operation. When this is done, such features as On-Hook Dialing and Handsfree Speakerphone operation become inoperable. However, incoming page/voice announcements, tone ringing, and Background Music can still be heard over the Key Telephone speaker.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

HOLD - EXCLUSIVE

SIEMENS KEY SYSTEMS

SECTION: 40/80

FEATURE DESCRIPTION

When a line is placed on Exclusive Hold, no other station in the system can retrieve the call.

OPERATING PROCEDURE

Press the HOLD button either once or twice depending on how the system is programmed.

SERVICE CONDITIONS

The system must be programmed to determine which HOLD is the primary hold.

DISPLAY INDICATION

LINE HOLDING
LINE 16 09:45 am

SIEMENS KEY SYSTEMS HOLD PREFERENCE SECTION: 40/80

FEATURE DESCRIPTION

Either Exclusive Hold or System Hold can be programmed to be the primary hold. A line on Exclusive Hold prohibits anyone from picking up a call placed on hold by another station.

A line placed on System Hold can be retrieved by any other telephone in the system.

OPERATING PROCEDURE

To place a CO/PBX/CENTREX line on hold:

- a. If your system is programmed to have Exclusive Hold preferred, press HOLD button once for Exclusive Hold and twice for System Hold.
- b. If your system is programmed to have System Hold preferred, press HOLD button once for System Hold and twice for Exclusive Hold.

SERVICE CONDITIONS

The system must be programmed on a per-system basis for its hold preference.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

HOLD - SYSTEM

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When a line is placed on System Hold, any station in the system with access to that line can retrieve the call.

OPERATING PROCEDURE

Press the HOLD button either once or twice depending on how the system is programmed.

SERVICE CONDITIONS

The system must be programmed to determine which HOLD is the primary hold.

DISPLAY INDICATION

LINE HOLDING LINE 16 09:45 am

HOLD RECALL - EXCLUSIVE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When an outside call has been on Hold for a programmable period of time, recall ringing tone is sent to the station placing the call on Hold. If this station does not answer the recall, a recall tone is sent to the attendant.

OPERATING PROCEDURE

When an outside line has remained on hold for an extended period of time, you will be reminded with a recalling ring.

- a. Press outside line button flashing at very fast rate.
- b. Lift handset to converse.

SERVICE CONDITIONS

The system default value is 180 seconds, and is variable from 000 to 300 seconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

LINE 16 RECALLING 08/08/88 09:45 am

HOLD RECALL - SYSTEM

SIEMENS KEY SYSTEMS SECTION 40/80

FEATURE DESCRIPTION

When an outside call has been on Hold for a programmable period of time, recall ringing tone is sent to the station placing the call on Hold. If this station does not answer the recall, a recall tone is sent to the attendant.

OPERATING PROCEDURE

When an outside line has remained on hold for an extended period of time, you will be reminded with a recalling ring.

- a. Press outside line button flashing at very fast rate.
- b. Lift handset to converse.

SERVICE CONDITIONS

The system default value is 060 (60 seconds), and is variable from 000 to 300 seconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

LINE 16 RECALLING 08/08/88 09:45 am

INTERCOM CALLING

SIEMENS KEY SYSTEMS SECTION 40/80

FEATURE DESCRIPTION

The System's architecture allows 14 intercom paths for internal traffic capability, of which 12 can be used by SLTs. A station is reached on intercom by dialing the associated three-digit number. One path could be dedicated to the attendant.

OPERATING PROCEDURE

- a. Press station key of party to be called (if programmed at your phone); or dial station number (100 to 179).
- b. Ringing is heard if called station is the T answering mode; or three bursts of tone if called station is in the H or P position.
- c. Lift handset or use speakerphone. Tone bursts stop.
- d. Hang up to end call.

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

CALL TO STA 101 08/08/88 09:45 am

SIEMENS KEY SYSTEM SECTION: 40/80

INCOMING INTERCOM SIGNALING SELECTION

FEATURE DESCRIPTION

The key telephone user can select the method of receiving intercom calls. A slide switch located on the telephone is used to select the mode. The choices are:

Tone Ringing (T). A standard tone ring notifies the party of an incoming call. The called station answers by lifting the handset.

Page (P). The station user receives a tone burst and a voice announcement over the speaker. The microphone is deactivated, providing privacy. The called party must lift the handset or switch the selector the H (handsfree) position.

HandsFree (H). The station user, upon hearing a tone burst and voice announcement over the speaker, can reply handsfree.

OPERATING PROCEDURE

With the intercom signal switch in the T mode, repeated bursts of intercom tone ringing are heard and the HOLD button flashes slowly.

- a. Lift handset or press ON/OFF button to answer. If you receive a call from a Phone Box, press that DSS button to answer the call.
- b. Hang up to end call.

In the P mode, three bursts of tone and a one-way announcement are heard. The HOLD button flashes slowly, and the calling party cannot hear conversations in progress.

In the H mode, three bursts of tone and an announcement are heard. Reply handsfree or lift handset for privacy.

SERVICE CONDITIONS

There is no special service condition required for this standard system feature.

DISPLAY INDICATION

MS INTERCOM/TRANSFER GROUP PICKUP

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Stations placed in one or more groups can pick up incoming tone ringing intercom calls and recalling or transferred CO Lines from a keyset or Single Line Telephone in the same group.

OPERATING PROCEDURE

When intercom tone ringing, transferred outside line ringing, or recall ringing is heard at an unattended telephone, lift the handset and press the PICK UP button to be connected to the calling party. You must be in the same pickup group as the ringing telephone to pick up the call.

SERVICE CONDITIONS

Stations must be programmed into one of four pickup groups.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

,

CALLED STATION'S DISPLAY

CALL TO 100 PICKED UP FROM STA 110 09:45 am

CALL TO STA 100 FROM STA 112 09:45 am

XFER TO ST 100 PICKED UP LINE 16 09:45 am

INTERNAL ALL CALL PAGE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Stations allowed to make pages may make voice paging announcements to all idle stations at the same time. Stations off-hook or in DND will not hear the page.

OPERATING PROCEDURE

- a. Dial the paging code, or press programmed button.
- b. Speak in normal tone of voice to deliver message.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

ZONE 1 PAGE 09:45 am

PAGE FROM STA 100 06/13/88 09:45 am

INTERNAL ZONE PAGE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A station programmed to make pages can make voice announcements to idle stations in both internal zones at the same time, or to any one of the four internal zones separately. A flexible button can be programmed by the station user for one-button page operation. Stations off-hook or in DND will not hear the page.

OPERATING PROCEDURE

- a. Dial the paging code or press programmed button.
- b. Speak in normal tone of voice to deliver message.

SERVICE CONDITIONS

Stations must be programmed into one of four internal zones.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

INTERNAL PAGE ZONE 1 09:45 am

PAGE FROM STA 100 06/13/88 09:45 am

LAST NUMBER REDIAL

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

This feature permits the automatic redialing of the last telephone number dialed on an outside line. Up to 32 digits can be stored. Outside line selection is automatic.

OPERATING PROCEDURE

- a. Press SPEED button
- b. Press pound (#) key. The last number dialed on an outside line is automatically redialed.

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

99479774 SPEED 10 09:45 am

LEAST COST ROUTING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

This feature enables the system to automatically select the least costly route available according to the number dialed, the time of day, day of week, the class of service (COS) assigned to the station, and CO line and trunk group priority level assigned.

OPERATING PROCEDURE

Press [9] while in the intercom dial mode.

SERVICE CONDITIONS

The system default value entry is disabled for all stations. It can be activated on a system basis by the installer.

DISPLAY INDICATION

LINE-TO-LINE CONFERENCE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The conference initiator can exit a conference with two outside parties and leave them in an unsupervised conference. The initiator can re-enter the conference at any time.

A programmable conference timer disconnects the unsupervised conference if the initiator does not reenter within a preset period of time.

OPERATING PROCEDURE

- a. Lift handset.
- b. Dial desired party.
- c. Press CONF button.
- d. Add next conference party by selecting another line.
- e. When party answers, press CONF button. All parties are connected

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. The system default value is 10 minutes, and is variable from 00 to 99 minutes. The timer can be deactivated by the installer.
- c. Single Line Telephones or OPXs cannot establish a conference with two outside lines.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 am

LONG HANDSET CORD

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone set comes standard with a 13-foot handset cord.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

LOOP KEY

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A Loop Key(s) can be programmed on a per-station basis to allow a station user to retrieve a CO/PBX/CENTREX call, if the line appearance is not on the telephone.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

Loop keys must be programmed by the installer.

DISPLAY INDICATION

There is no correlation between this feature and the display indication.

LOUD BELL CONTROL

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Two sets of relay-controlled contacts are provided to connect external signaling devices. Each set of contacts can be programmed to follow the ringing signals at any station.

OPERATING PROCEDURE

No special operation procedure is required for the feature.

SERVICE CONDITIONS

The Siemens 40/80 System provides relay contact closure to activate optional external signaling equipment during incoming CO line ringing, or to activate ancillary equipment.

The stations for Loud Bell Control are selected as part of system programming. Either or both of the LBC circuits may be assigned to any one station, to separate stations, or to a CO Line to provide contact closure while that CO line is busy. The dry contacts will follow the ringing condition of that station or will remain closed when assigned to a CO line.

DISPLAY INDICATION

MEET ME PAGE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Users may answer a page call by going to the nearest telephone and dialing a code to be connected to the calling party. A flexible button can be programmed for one-button answer to a meet-me page by the station user.

OPERATING PROCEDURE

To request that another party meet you on a page:

- a. Dial the desired two-digit paging code or press programmed button.
- b. Request that the party meet you on the page.
- c. Do not hang up; wait for the requested party to answer.

To answer a Meet Me Page:

- a. Go to the nearest Telephone and dial [*] [9].
- b. You are connected to the party that paged you.

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

ALL	CALL		
08/08/88	09:45	am	

PAGE 08/08/88	FROM	100 09:45	am	

MESSAGE WAITING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

If a station user calls another station and receives ringing, busy tone, or DND tone, but no answer can activate a Message Waiting lamp at that station to indicate the call. The station user who missed the call can then press his flashing MSG WAIT button and ring the party leaving the message. Up to five messages may be left at each phone. A station with a message waiting can be reminded at a timed interval with a tone.

OPERATING PROCEDURE

If a station is busy, unattended, or in DND, you can leave a message waiting indication. Up to five messages can be left at any one key station. To leave a Message Waiting indication:

- a. Press the MSG WAIT button. The called party's MSG button will slow flash.
- d. Hang up.

If your MSG WAIT button is flashing at a slow rate, you have a message waiting. The caller that left the first message is called first. To answer a Message Waiting Indication:

- a. Pick up handset.
- b. Press flashing MSG WAIT button.
- c. Station that left message is signaled with tone ringing.
- e. If called station does not answer, press MSG WAIT button once to leave a message waiting indication.

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

MSG:102 115 103 112 104 08/08/88 09:45 am

MESSAGE WAITING REMINDER TONE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A key station with a message waiting can be reminded at a timed interval with a tone.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

The system default value is 000 (0 minutes, which holds the signal inactive), and is variable from 000 to 104 minutes. The timer can be deactivated by the installer.

DISPLAY INDICATION

MSG:102 115 103 112 104 08/08/88 09:45 am

MUSIC ON HOLD

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A music source, when connected to the System, provides music to all lines on Hold, transferred calls, and calls waiting to be answered by Universal Call Distribution (UCD).

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

Music-On-Hold and Background Music through Key Telephone speakers can be provided via a customer provided tuner, tape deck, etc. Connection is made with an RCA jack connector on the DC/DC Converter Unit (DCU). A volume adjustment is provided on the DCU. The maximum input impedance of the music source is 2K ohms.

DISPLAY INDICATION

SIEMENS KEY SYSTEMS SECTION: 40/80

MUTE

FEATURE DESCRIPTION

During a handset or handsfree speakerphone operation, the key telephone microphone can be disabled for stations requiring privacy of transmission, or in areas with high ambient noise levels.

OPERATING PROCEDURE

- a. Press while off-hook to activate. (Indicator lights.)
- b. Press again to deactivate. (Indicator extinguishes.)

SERVICE CONDITIONS

. There are no special service conditions required for this standard feature.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station IOO 12/10/88 09:45 am

MULTI-LINE CONFERENCE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The conference initiator can exit a conference with two outside parties and leave them in an unsupervised conference. The initiator can re-enter the conference at any time.

A programmable conference timer disconnects the unsupervised conference if the initiator does not reenter.

OPERATING PROCEDURE

- a. Lift handset.
- b. Dial desired party.
- c. Press CONF button.
- d. Add next conference party by selecting another line.
- e. When party answers, press CONF button. All parties are connected.

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. The system default value is 10 minutes, and is variable from 00 to 99 minutes. The timer can be deactivated by the installer.
- c. Single Line Stations or OPXs cannot established a multi-line conference.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The attendant places the system in night service by pressing the DND button. This allows specific telephones to ring at night that may or may not ring during the day. A dial code is provided for Universal Night Answer; a direct CO line button appearance or a lop key is required for this feature.

OPERATING PROCEDURE

- a. To initiate night service, the attendant presses the DND button.
- b. To remove night service, the attendant presses the DND button again.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

NON-SQUARE OPERATION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The upper 20 buttons on each Key Telephone constitute a flexible button field. The buttons in this field can be individually programmed. One of the following six operations can be selected for each button.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

There are no special service conditions are required for this standard feature.

DISPLAY INDICATION

OFF-HOOK DIALING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Key Telephone user can place calls with or without lifting the handset. If the speakerphone is disabled, the handset must be lifted to converse.

OPERATING PROCEDURE

Press the on/off button.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

18005551212 LINE 16 00:00 05

SIEMENS KEY SYSTEMS SECTION: 40/80

OFF-HOOK VOICE ANNOUNCE

FEATURE DESCRIPTION

This feature provides a means for the calling party of an attempted intercom call to make a voice announcement and receive a handsfree reply from a busy station. Two conversations can be conducted on the same telephone at the same time. All stations must be six-wire OHVA equipped keysets, and each station must be properly programmed in the database.

OPERATING PROCEDURE

- a. If you dial a station that is busy and want to signal your call, press the CAMP ON button.
- b. If three bursts of tone are heard, your call has cut through the busy connection.
- c. You may speak to the called party. (If you hear ringing, you have placed a CAMP ON to that station; see Camp On feature.)

SERVICE CONDITIONS

- a. Each station equipped for OHVA requires one port from the KIB with Off-Hook Voice Announce.
- b. Each station must be programmed for OHVA.

DISPLAY INDICATION

CALL FROM STA 100 08/08/88 09:45 am

OFF-PREMISES EXTENSION (OPX)

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The 40/80 can have special OPX cards installed to interface to the CO with -48 volts DC with FCC approval.

OPERATING PROCEDURE

No special operating procedure is required for this system feature.

SERVICE CONDITIONS

OPXs can be replaced for key telephones on a 4 to 8 (key telephone) basis. The following items are required:

- o One OPX board
- o One Ring Generator
- o One APB board

DISPLAY INDICATION

ON-LINE PROGRAMMING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Changes to the system database can be made without interrupting normal system operation (except for flexible button programming). Programming is done at station port 1.

OPERATING PROCEDURE

No special operating procedure is required for this Standard System Feature.

SERVICE CONDITIONS

No special Service Conditions are required for this Standard System Feature.

DISPLAY INDICATION

All Programming Displays

ON-HOOK DIALING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A telephone user can place calls without lifting the handset and can monitor the call while the called party's phone is ringing or on hold.

OPERATING PROCEDURE

No special operating procedure is required for this Standard System Feature.

SERVICE CONDITIONS

No Special Service Conditions are required for this standard system feature.

DISPLAY INDICATIOn

18005551212

LINE 16 00:00:05

SIEMENS KEY SYSTEMS OFF-HOO

SECTION: 40/80

OFF-HOOK SIGNALING

FEATURE DESCRIPTION

If a station is programmed to receive direct outside line ringing and is busy on another call, that station will receive muted ringing to indicate another call is ringing in.

OPERATING PROCEDURE

No special operating procedure is required for this Standard System Feature.

SERVICE CONDITIONS

There are no special service conditions required for this Standard System Feature.

DISPLAY INDICATION:

LINE RINGING
LINE 16 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Siemens 40/80 hybrid key system can provide one-way or two-way paging, as well as multi-zone paging through its non-linear page port.

OPERATING PROCEDURE

Stations off-hook or in DND cannot hear the page.

- a. Dial the two-digit paging code, or press programmed button.
- b. Speak in normal tone of voice to deliver message:
 - *1 Internal Zone 1
 - *2 Internal Zone 2
 - *3 Internal Zone 3
 - *4 Internal Zone 4
 - *5 Internal All Call
 - *6 External Zone
 - *0 All Call

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. Valcom Equipment is recommended for two-way multi-zone paging.
- c. One page can be activated at a time.
- d. Page Warning Tone Determines whether a page warning tone is sounded over the Key Telephone speakers or external paging speakers.

Default is yes.

e. Page Timeout Timer - Determines the maximum length of a page. The system will automatically disconnect the page at the end of this time unless the person making the page has already hung up.

Default is 15 seconds and is variable from 01 to 60 seconds. A 00 entry disables the timer and pages will not be limited in length.

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED)

PAGE ACCESS - ONE-WAY

- f. Page Access Stations can individually be allowed or denied the ability to make pages. Allowed by default.
- g. When using external equipment to activate multi-zone and/or talkback paging through the APB card, you may not use "ALL CALL PAGING."

DISPLAY INDICATION

CALLING STATION'S
DISPLAY

CALLED STATION'S DISPLAY

ALL CALL PAGE 12/06/88 10:48 am

PAGE FROM STA 105 12/06/88 10:48 am

PAGE ACCESS RESTRICTION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Stations can be programmed to be allowed or denied the ability to make page announcements on a perstation basis.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Page access can be restricted on a per-station basis.

DISPLAY INDICATION

PAGE ACCESS - TWO-WAY

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The Siemens 40/80 hybrid key system can provide one-way or two-way paging, as well as multi-zone paging through its non-linear page port.

OPERATING PROCEDURE

Stations off-hook or in DND cannot hear the page.

- a. Dial the two-digit paging code, or press programmed button.
- b. Speak in normal tone of voice to deliver message
 - *1 Internal Zone 1
 - *2 Internal Zone 2
 - *3 Internal Zone 3
 - *4 Internal Zone 4
 - *5 Internal All Call
 - *6 External Zone
 - 0 LX(0)1101 20
 - *0 All Call

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. Valcom Equipment is recommended for two way and multi-zone paging.
- c. One page can be activated at a time.
- d. Page Warning Tone Determines whether a page warning tone is sounded over the Key Telephone speakers or external paging speakers.

Default is yes.

e. Page Timeout Timer - Determines the maximum length of a page. The system will automatically disconnect the page at the end of this time unless the person making the page has already hung

Default is 15 seconds and is variable from 01 to 60 seconds. A 00 entry disables the timer and pages will not be limited in length.

SIEMENS KEY SYSTEMS SECTION: 40/80 (CONTINUED)

PAGE ACCESS - TWO-WAY

- f. Page Access Stations can individually be allowed or denied the ability to make pages. Allowed by default.
- g. When using external equipment to activate multi-zone and/or talkback paging through the APB card, you may not use "ALL CALL PAGING."

DISPLAY INDICATION

CALLING STATION'S
DISPLAY

CALLED STATION'S DISPLAY

ALL CALL PAGE 12/06/88 10:48 am PAGE FROM STA 105 12/06/88 10:48 am

PAUSE TIMER SIEMENS KEY SYSTEMS

SECTION: 40/80

FEATURE DESCRIPTION

When dialing a speed number, a timed pause between digit sending can be placed in the number. The length of this pause can be programmed in the system database.

OPERATING PROCEDURE

No special operating procedure is required for this Standard System Feature.

SERVICE CONDITIONS

The system default value is two seconds, and is variable from one to nine seconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

PBX FEATURE ACTIVATION BUTTONS

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Using either station or system speed call, PBX feature codes can be programmed as buttons for easier use.

OPERATING PROCEDURE

- a. Press SPEED CALL once, then press the desired outside line key; or select an outside line automatically by pressing the SPEED CALL button a second time.
- b. Dial the speed bin location (00 to 19 for Station Speed numbers; 20 to 99 for System Speed numbers).
- c. Dial telephone number.
- d. Press SPEED CALL.
- e. Hang up.

Pressing the TRANS button during number entry initiates a Pulse-To-Tone switchover. Pressing the HOLD button during number entry inserts a Pause. Pressing the FLASH key inserts a Flash into the speed number. Pressing the TRANS button as the first entry in the speed bin inserts a no-display character causing the numbers stored in the bin not to appear on the Key Telephone's display when the bin is accessed.

Station Speed numbers can be entered by keyset users. System Speed numbers must be entered by the first programmed attendant. If no attendant is specified, enter at Station 100.

If no outside line was specified in programming, one is chosen automatically, or you can choose one now.

- a. Press SPEED CALL button and dial bin location, or press programmed speed bin button. Station Speed numbers are 00 to 19. System Speed numbers are 20 to 99.
- b. When called party answers, pick up handset or use speakerphone.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

9947974 SPEED 10 09:45 am

PBX LINE ACCESS

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each telephone can be programmed to be allowed or denied an appearance to individual PBX lines or a pool of PBX lines. Telephones denied this appearance can have that line transferred to them by another station and the call will appear on the loop button.

Telephones can be programmed to answer calls on a particular line, but not make calls on that line. Any station may be programmed to ring for any combination of lines during the day and different stations can be programmed to ring on those lines at night.

OPERATING PROCEDURE

To answer a PBX call:

- a. Lift handset.
- b. Press slow flashing outside line button. (If your telephone is programmed with Preferred Line Answer, you may answer an outside line by lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

When manually dialing outgoing calls:

18005551212 LINE 16 00:00:05

PBX LINE GROUPING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

PBX lines can be in one of up to seven groups to separate line types. Stations are then individually assigned access to these lines via pooled group key.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Lines must be preprogrammed into Line groups.

DISPLAY INDICATION

115 LINE 16 09:45 am

PBX HUNT LINE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Using the preset Call Forward Feature, PBX lines programmed to ring on a given telephone can be transferred to another telephone after a period of time. Up to eight transfers are possible.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

- a. The system must be programmed to assign forward location(s).
- b. The system default value is 10 seconds, and is variable from 00 to 99 seconds.

DISPLAY INDICATION

FORWARD RING LINE 16 09:45 am

PBX LINE QUEUING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

When all PBX lines in a group are busy, stations can be placed in a queue waiting for a line to become available. Users are signaled when a line becomes available. If the waiting station is busy when the queued PBX line becomes available, the calling station is placed at the bottom of the queue. Three attempts are made to reach a busy station before that station is dropped from the queue. If a station does not answer the queue signal within 15 seconds, that station is dropped from the queue.

OPERATING PROCEDURE

A station can queue only one line at a time. If you dial a busy outside line and wish to be placed in a queue waiting for that line to become available:

- a. Lift handset.
- b. Press LINE QUE button.
- c. Press desired busy PBX line button.
- d. Hang up.

To cancel a queue:

- a. Lift handset or press ON/OFF button.
- b. Press LINE QUE button.

If you are in a queue and a line becomes available, your telephone rings and a PBX line of the line group you queued flashes slowly. To answer a queue:

- a. Lift handset.
- b. Press flashing outside line button to answer. (If your station is programmed for Preferred Line Answer, you will have the line automatically upon lifting the handset.)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

CALLING STATION'S DISPLAY

CALLED STATION'S DISPLAY

PLACED IN QUEUE FOR GROUP 3 09:45 am

QUEUE CALLBACK
LINE 16 09:54 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The system allows five one- or two-digit access codes to be entered into memory. When one of these codes is dialed, this signals the KSU that toll restriction is to be applied at the next dialed digits after the code. If one of these codes is not dialed, toll restriction does not apply. This allows the dialing of PBX extensions 100, 110, 111, etc. This feature functions on lines marked as PBX type lines in programming.

OPERATING PROCEDURE

No special operation procedure is required with this standard system feature.

SERVICE CONDITIONS

Up to five two-digit PBX codes must be programmed.

DISPLAY INDICATION

PBX LINE-TO-LINE CONFERENCE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The conference initiator can exit a conference with two outside parties and leave them in an unsupervised conference. The initiator can re-enter the conference at any time.

A programmable conference timer disconnects the unsupervised conference if the initiator does not reenter.

OPERATING PROCEDURE

- a. Lift handset.
- b. Dial desired party.
- c. Press CONF button.
- d. Add next conference party by selecting another line.
- e. When party answers, press CONF button. All parties are connected.

SERVICE CONDITIONS

- a. This feature requires the installation of an APB card.
- b. The system default value is 10 minutes, and is variable from 00 to 99 minutes. The timer can be deactivated by the installer.
- c. Single Line Telephones or OPXs cannot establish a PBX Line to Line Conference.

DISPLAY INDICATION

CONFERENCE 08/08/88 09:45 am

PBX RING DETECT

SECTION: 40/80

FEATURE DESCRIPTION

The duration of the ringing signal from the PBX is matched with ringing detection circuitry in the KSU. The ring detect can range from 200 to 900 milliseconds, programmed in 100 millisecond increments. This timer helps prevent false ringing.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value is 300 milliseconds, and is variable from 200 to 900 milliseconds. The timer can be deactivated by the installer.

DISPLAY INDICATION

PERSONALIZED MESSAGES

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each Key Telephone can select a preassigned message to be displayed on the LCD screen of a Key Telephone calling that station. There are ten possible messages which can be displayed:

VACATION
RETURN MORNING
RETURN AFTERNOON
RETURN TOMORROW
RETURN NEXT WEEK
BUSINESS TRIP
MEETING
HOME
ON BREAK
LUNCH

When a call is made from a single line or non-display telephone, a Do Not Disturb (DND) Tone is heard.

OPERATING PROCEDURE

- a. Dial [7] [8] on the dial pad.
- b. Dial the two-digit code for the message that will appear:
 - 00 clears messages
 - 01 VACATION
 - 02 RETURN MORNING
 - 03 RETURN AFTERNOON
 - 04 RETURN TOMORROW
 - 05 RETURN NEXT WEEK
 - 06 BUSINESS TRIP
 - 07 MEETING
 - 08 HOME
 - 09 ON BREAK
 - 10 LUNCH

SERVICE CONDITIONS

The calling party must have a display telephone set.

DISPLAY INDICATION

The calling party will see one of the above ten messages programmed by the station user.

SECTION: 40/80

FEATURE DESCRIPTION

A phone box may be substituted for a telephone on a one-for-one basis. The phone box can be used to receive intercom announcements and to provide handsfree response. There is also a CALL button that can signal all stations programmed to receive alarm ringing. One of these stations can respond to the signal by pressing the DSS/BLF button or by dialing the intercom number of the phone box station. Two-way conversation is then possible. Phone boxes can be used for Background music and internal page.

OPERATING PROCEDURE

No special operating procedure is required for this feature.

SERVICE CONDITIONS

One KSB port is required for each phone box.

DISPLAY INDICATION

PREFERRED LINE ANSWER

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A station with preferred line answer can answer any assigned ringing outside line, outside line transfers, line queues, and transfer recalls by lifting the handset or pressing the ON/OFF button. The CO line button does not have to be pressed for automatic line answer.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value entry is disabled for all stations. It can be activated on a per-station basis by the installer.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the ldle mode, the following display is shown.

Station 100 12/10/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURES DESCRIPTION

Privacy is automatically provided on all calls. If one station is conversing, another station cannot intrude on that line. The Automatic Privacy feature can be disabled, allowing another station to join in on existing CO/PBX/CENTREX line conversations.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system must be programmed for privacy preference. The default programming includes privacy as a standard feature.

DISPLAY INDICATION

PRIVACY PREFERENCE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Privacy is automatically provided on all calls. If one station is conversing, another station cannot intrude on that line. The Automatic Privacy feature can be disabled, allowing another station to join in on existing CO/PBX/CENTREX line conversations.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system must be programmed for privacy preference. The default programming includes privacy as a standard feature.

DISPLAY INDICATION

PRIVATE LINE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

A station can be programmed to have a private line. A line designated as a private line can transfer calls to other stations and can be forwarded to another station and, when placed in night service, the UNA code will not pick up this ringing CO/PBX/ CENTREX line. A private line cannot have a preset forward station.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The line must be programmed as a private line.

DISPLAY INDICATION

CALL FROM STA 100 08/08/88 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

ROTARY SERVICE

FEATURE DESCRIPTION

Each CO/CENTREX/PBX interface circuit for lines can be individually programmed to sent DTMR (Tone) or dial pulse.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

The 40/80 system must be programmed for either DTMF or dial pulse.

DISPLAY INDICATION

SAVE NUMBER REDIAL

SECTION: 40/80

FEATURE DESCRIPTION

Any number dialed on an outside line can be saved permanently to be used at any time.

OPERATING PROCEDURE

To save the last number dialed:

- a. Keep handset off-hook.
- b. Press SPEED button twice.

To dial a saved number:

- a. Press SPEED button.
- b. Dial asterisk (*) key.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

9947974 LINE 16 09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

SINGLE LINE TELEPHONE ACCESS

FEATURE DESCRIPTION

The 40/80 system can have up to 72 single line telephones with message waiting on an 8-to-8 swapout of key sets.

OPERATING PROCEDURE

No special operating procedure is required for this system feature.

SERVICE CONDITIONS

- a. Single line telephones can be replaced for key telephones on an 8-for-8 basis. The following items are required for a system equipped with SLTs:
 - o One SLT board (installed in KSU)
 - o One RG (installed into EPS)
 - o One APB (installed in Basic KSU)
- b. If more than 24 single line ports are installed, an SLU must be added.

DISPLAY INDICATION

SPEAKERPHONE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each Key Telephone is equipped with a speakerphone. The speakerphone can be programmed to operate in one of three ways:

- a. Normal speakerphone operation.
- b. Disabled for outgoing calls and incoming CO calls, but handsfree talkback on intercom allowed.
- c. Disabled to allow headset operation.

OPERATING PROCEDURE

a. Press station key of desired party;

or

Press available outside line button and dial number. Speakerphone is activated.

b. Press ON/OFF button to end call.

SERVICE CONDITIONS

The system default value entry is enabled for all stations. It can be deactivated on a per-station basis by the installer.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

STATION MESSAGE DETAIL RECORDING

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION:

The Siemens 40/80 Key Telephone System provides one industry-standard RS-232C port, and a second port is optional for simultaneous use. Each port allows connection to an external printer or call accounting device. The system provides details on both incoming and outgoing calls. This feature is programmable to allow recording of all calls or only outgoing long distance calls. The system tracks calls by outside line, number dialed, time of day, date, station that placed the call, and duration of call. Account codes may also be entered and recorded.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

The system default value entry is disabled for all stations. It can be activated on a per-station basis by the installer.

DISPLAY INDICATION

STATION SPEED DIAL

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each station user can program up to 20 frequently dialed numbers of up to 24 digits in length. Pauses, flash commands, pulse-to-tone switchover, and no-display characters take up digit spaces. There are a total of 640 speed locations to be divided among all telephones on a first-come, first-served basis. Numbers are dialed by pressing the SPEED CALL button and a two-digit code. This feature can additionally be assigned to any of the 20 buttons in the flexible button field on each keyset for one-button activation.

OPERATING PROCEDURE

- a. Press SPEED CALL once, then press the desired outside line key; or select an outside line automatically by pressing the SPEED CALL button a second time.
- b. Dial the speed bin location (00 to 19 for Station Speed numbers; 20 to 99 for System Speed numbers).
- c. Dial telephone number.
- d. Press SPEED CALL.
- e. Hang up.

Pressing the TRANS button during number entry initiates a Pulse-To-Tone switchover. Pressing the HOLD button during number entry inserts a Pause. Pressing the FLASH key inserts a Flash into the speed number. Pressing the TRANS button as the first entry in the speed bin inserts a no-display character causing the numbers stored in the bin not to appear on the Key Telephone's display when the bin is accessed.

Station Speed numbers can be entered by keyset users. System Speed numbers must be entered by the first programmed attendant. If no attendant is specified, enter at Station 100.

If no outside line was specified in programming, one is chosen automatically, or you can choose one now.

- a. Press SPEED CALL button and dial bin location, or press programmed speed bin button. Station Speed numbers are 00 to 19. System Speed numbers are 20 to 99.
- b. When called party answers, pick up handset or use speakerphone.

STATION SPEED DIAL

SIEMENS KEY SYSTEMS
SECTION: 40/80 (CONTINUED)

SERVICE CONDITIONS

There are no special service conditions required for this standard feature.

DISPLAY INDICATION

9947974	
SPEED 10	09:45 am

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Up to 80 commonly dialed numbers can be programmed into System Speed Dial for use by stations allowed this feature. These numbers can be up to 24 digits, including pauses, flash commands, pulse-to-tone switchover, and no-display characters. The last 40 numbers are not monitored by toll restriction.

OPERATING PROCEDURE

- a. Press SPEED CALL once, then press the desired outside line key; or select an outside line automatically by pressing the SPEED CALL button a second time.
- b. Dial the speed bin location (00 to 19 for Station Speed numbers; 20 to 99 for System Speed numbers).
- c. Dial telephone number.
- d. Press SPEED CALL.
- e. Hang up.

Pressing the TRANS button during number entry initiates a Pulse-To-Tone switchover. Pressing the HOLD button during number entry inserts a Pause. Pressing the FLASH key inserts a Flash into the speed number. Pressing the TRANS button as the first entry in the speed bin inserts a no-display character, causing the numbers stored in the bin not to appear on the Key Telephone's display when the bin is accessed.

Station Speed numbers can be entered by keyset users. System Speed numbers must be entered by the first programmed attendant. If no attendant is specified, enter at Station 100.

If no outside line was specified in programming, one is chosen automatically, or you can choose one now.

- a. Press SPEED CALL button and dial bin location, or press programmed speed bin button. Station Speed numbers are 00 to 19. System Speed numbers are 20 to 99.
- b. When called party answers, pick up handset or use speakerphone.

SERVICE CONDITIONS

There are no special service conditions required for this standard feature:

DISPLAY INDICATION

9947974		
SPEED 10	09:45	am

TOLL RESTRICTION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

The system provides a flexible means of providing toll restriction to individual stations. By assigning a Class of Service to each station, long distance calls can be limited at certain stations. Long distance calls can also be limited by entries in the Allow/Deny tables.

OPERATING PROCEDURE

No special operating procedures are required for this standard feature.

SERVICE CONDITIONS

Allow/Deny tables and Class of Services must be programmed.

DISPLAY INDICATION

TOLL RESTRICTION OVERRIDE

SECTION: 40/80

FEATURE DESCRIPTION

An outside line can be programmed so that toll restricted stations are allowed to dial on that line.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

Toll override must be programmed in the system database.

DISPLAY INDICATION

TOUCH-TONE SERVICE

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each CO/CENTREX/PBX interface circuit for lines can be individually programmed to send DTMF (Tone) or dial pulse.

OPERATING PROCEDURE

No special operating procedure is required for this standard system feature.

SERVICE CONDITIONS

The 40/80 system must be programmed for either DTMF or dial pulse.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

UNIVERSAL CALL DISTRIBUTION

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Eight Uniform Call Distribution (UCD) groups can be programmed, each containing up to eight three-digit station numbers. Each group is assigned a pilot number. When this number is dialed, the first available station in that group is called. An alternative UCD group may be specified during programming, allowing overflow call distribution to the alternate group.

The Recorded Announcement (RAN) feature is used with the UCD feature to provide a Recorded Announcement to unanswered incoming CO calls or calls in queue waiting for an available UCD station. The system can be programmed to connect the waiting caller to a different RAN port for the second and subsequent RAN messages.

OPERATING PROCEDURE

No special operating procedure is required for this standard feature.

SERVICE CONDITIONS

UCD tables must be programmed in the system database.

DISPLAY INDICATION

CALL TO STA 110
VIA UCD 09:45 am

UNIVERSAL NIGHT ANSWER (UNA)

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Incoming CO lines can be programmed for Universal Night Answer (UNA). Stations that do not have access to a line during the day can answer that line while the System is in the Night Mode by dialing a UNA code.

OPERATING PROCEDURE

To answer an outside line ringing at another station, dial [7] [5] on the dial pad. The connected outside line can be transferred or disconnected. Each telephone using Universal Night Answer must have a loop button appearance if it has no appearance for the ringing outside line.

SERVICE CONDITIONS

There is no special service condition required for this standard system feature.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

VOLUME CONTROLS

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Each key telephone user can adjust both speaker and ring volume independently by using the two volume controls located on the right side of the keyset.

OPERATING PROCEDURE

There are two volume control slide switches on the right side of the key telephone.

Rotating the volume control wheel toward you decreases the volume. The front switch controls voice, background music, and speakerphone volume; the back switch controls tone ringing volume.

SERVICE CONDITIONS

There are no special service conditions required for this standard system feature.

DISPLAY INDICATION

The display indication reflects the current mode or status of the station. For example, if the station is in the Idle mode, the following display is shown.

Station 100 12/10/88 09:45 am

WALL MOUNT KIT

SIEMENS KEY SYSTEMS SECTION: 40/80

FEATURE DESCRIPTION

Any key telephone can be adapted for wall mounting. The wall mount kit must be provided for wall mounting. Since the microphone directly faces the floor, the quality of the speakerphone might be limited.

OPERATING PROCEDURE

No special operating procedure is required for this feature.

SERVICE CONDITIONS

There are no special service conditions are required for this standard feature.

DISPLAY INDICATION

There is no correlation between this feature and any telephone instrument in this system.

FIELD MODIFICATION INSTRUCTIONS

FMI# <u>003</u>				
PRODUCT: SIEMENS 4	10/80 ASSEMBLY:	EXPANSION KSU	<u>J</u> TEC #:	20SMN004
CURRENT ISSUE #:1(before modification)		New Is:	sue #: <u>1, Rev</u>	A (Series 1) (after modification)
S O N U	This modification increases ports supported by the Sigystem, from 80 to 96. The optional slots, via a jurn Motherboard (MBII), of the used for additional station DPX).	iemens 40/80 Key Te e modification enables oper wire connected Expansion KSU (EKS	elephone is the two on the SU) to be	
MATERIALS NEEDED:	# 2 Phillips screWire CutterSmall Long Nos1 Revision label	e Pliers		
	All work to be done in a strap connected to the w			
1. Place the	e KSU with the front cover	on the ESD safe wor	k surface.	
2. Remove	the six (6) screws that see	cure the back plate (c	over) to the KSU.	
silkscree	nerboard of the Expansion n that identifies the edge KSI 10, APL, API pers will be connected bet	connector(s) as: L (two APL connector	s)	cate the
FOR ADMINISTRATION USE ONI RELATED DOCUMENTS:	LY: R #: <u>None</u>	ECR #: None		EC O #: <u>9F/1540</u>

INSTRUCTIONS (CONT):

- 4. a) Connect from A22 (IDT T) of edge-connector KSI 10 to A22 of card edge-connector APL (Option 1) and APL (Option 2) with jumper wire.
 - b) Connect from B22 (IDT R) of edge-connector KSI 10 to B22 of card edge-connector APL (Option 1) and APL (Option 2) with jumper wire.

NOTE: This modification "bridges" the "A22" and "B22" solder traces to the two Option (APL) slots to allow KSI, KSI-OHV, SLT, and OPX pcb's to function.

- 5. Replace the back plate (cover) and install the screws. Tighten the screws, do not over-tighten.
- 6. Place the E-KSU upright and remove the front cover. Adhere the Revision "A" sticker near the top right portion of the mother board II.
- 7. Mark the unit serial number label located inside the KSU (on the lower card edge rail) with the "S1" label. Also mark the unit box label with "S1" if applicable. The "S1" mark may be applied using a label, or a permanent marker may be used.

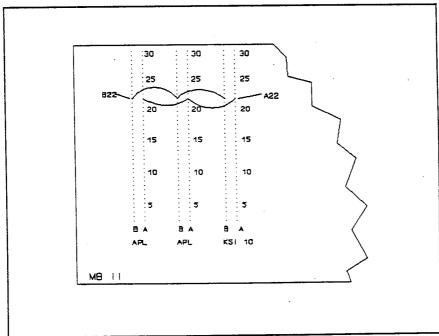


Figure 1 - Mother Board II (viewed with the back cover removed)

FMI-2

FIELD MODIFICATION INSTRUCTIONS

Propuer SI	EMENS 40/80 ASSEMBLY: <u>APB</u> TEC #: 23SMN012		
PRODUCT: OII	EMENS 40/80 ASSEMBLY: <u>APB</u> TEC #: <u>23SMN012</u>		
CURRENT ISSUE # (before modificat			
MODIFICATION DE	SCRIPTION: This modification increases the DTMF signal level on the intercom path to enhance the "In-Band" signaling for connection to voice mail devices.		
MATERIALS NEED	- Solder Iron - Lead Cutter - Desolder Tool - Small Long Nose Pliers - 6 - 3.3K ohm 10% 1/4 watt Resistors		
	- Revision Label (adhesive) i.e. Rev A		
Instructions:			
	NOTE: All work to be done in an ESD safe area with a wrist strap connected to the work station ground!		
1.	Place the APB board on the ESD safe work station.		
2.	Locate Resistors R40 - R45 (47K ohms).		
	Note: R40, R41, R43, R44 are located by the 8 pin IC labelled G32 on the PCB. R42 and R45 are located by the 14 pin IC labelled G13 on the PCB (see attached figure 1).		
3.	Carefully desolder and remove the resistors (R40 - R45) from the PCB.		
4.	Insert the 3.3K ohm resistors in R40-R45 and solder. Trim the excess leads.		
5.	Adhere the revision label (or mark with a permanent marker) on the PCB near the white silkscreened PCB identifier (see figure 1) "Rev A". Note, also mark the label of the unit box if applicable.		
Attachment: 1			

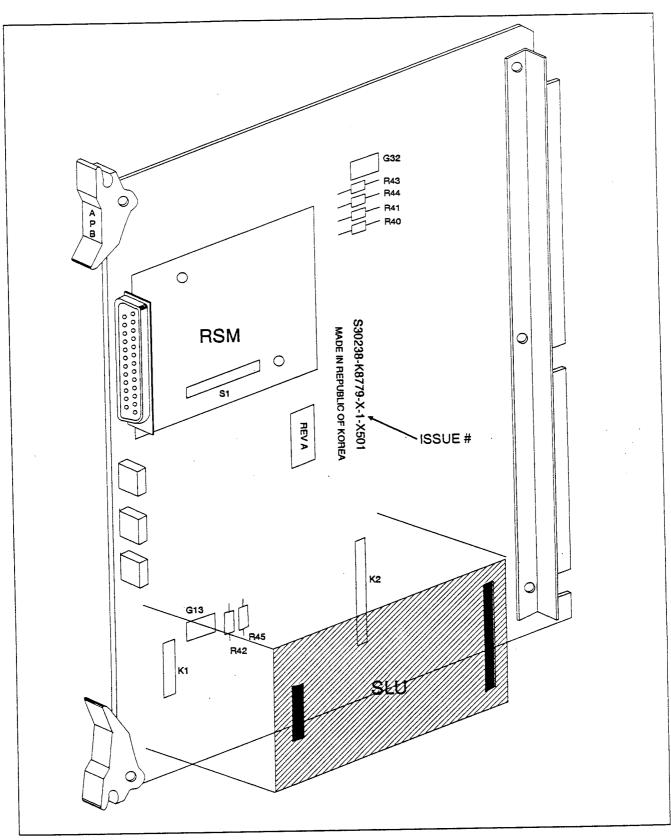


Figure 1 Application Board (APB)

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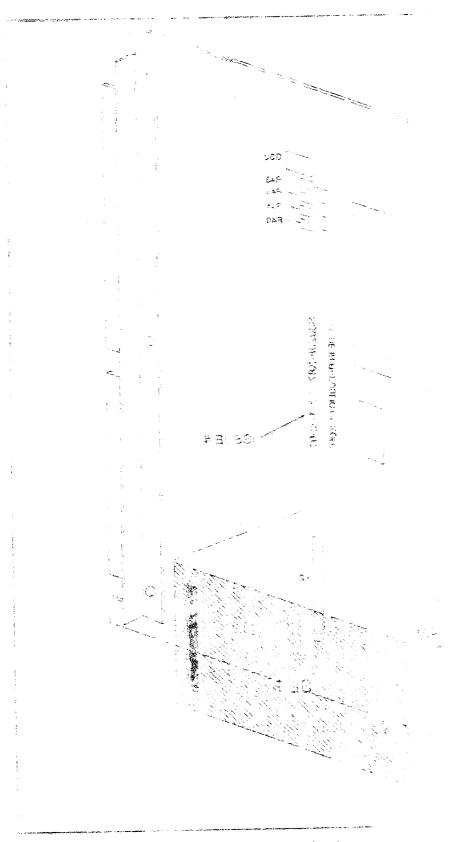
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FIELD MODIFICATION INSTRUCTIONS

Cuppeus logue #	#: 1 New issue #: _1, Rev #			
CURRENT ISSUE #: 1, Rev (before modification) New ISSUE #: 1, Rev (after modification)				
MODIFICATION DE	SCRIPTION: This modification increases the DTMF signal level on the intercom path to enhance the "In-Band" signaling for connection to voice mail devices.			
MATERIALS NEEDE	 Lead Cutter Desolder Tool Small Long Nose Pliers 6 - 3.3K ohm 10% 1/4 watt Resistors 			
	- Revision Label (adhesive) i.e. Rev A			
Instructions:	NOTE: All work to be done in an ESD safe area with a wrist strap connected to the work station ground !			
1.	Place the APB board on the ESD safe work station.			
2.	Locate Resistors R40 - R45 (47K ohms).			
	NOTE: R40, R41, R43, R44 are located by the 8 pin IC labelled G32 on the PCB. R42 and R45 are located by the 14 pin IC labelled G13 on the PCB (see attached figure 1).			
3.	Carefully desolder and remove the resistors (R40 - R45) from the PCB.			
4.	Insert the 3.3K ohm resistors in R40-R45 and solder. Trim the excess leads.			
5.	Adhere the revision label (or mark with a permanent marker) on the PCB near the white silkscreened PCB identifier (see figure 1) "Rev A". Note, also mark the label of the unit box if applicable.			
Attachment: 1				



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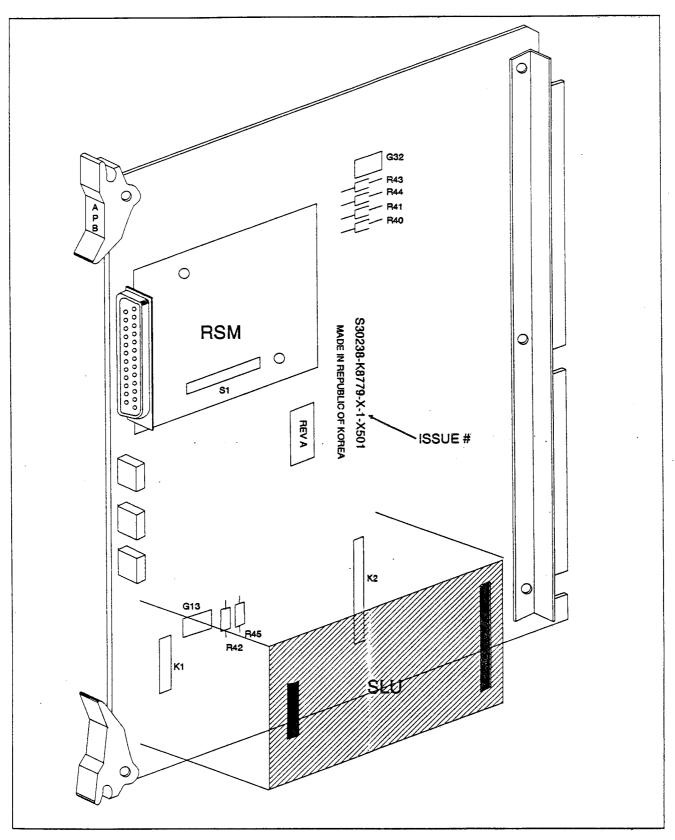


Figure 1 Application Board (APB)