# MT-360 SERIES DIGITAL KEY SYSTEM

# INSTALLATION MANUAL



#### MACROTEL INTERNATIONAL CORPORATION

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The sole obligation of MacroTel International Corporation under this warranty, or under any other legal obligation with respect to the equipment, is the repair or replacement by an authorized MacroTel dealer, with new or refurbished parts (at their option) of such defective or missing **parts** causing the malfunction. If MacroTel or one of its authorized dealers does not replace or repair such parts, the retail customer's sole remedy will be a refund of the price charged by MacroTel to its dealers for such parts as are proven to be defective, and which are **returned** to MacroTel through one of its authorized dealers within the warranty period and no later than **thirty** (30) days after such malfunction, whichever **first** occurs.

Under no circumstances will the retail customer or any user or dealer or other person be entitled to any direct, special, indirect, consequential or exemplary damages, for breach of contract, tort, or otherwise. Under no circumstances will any such person be entitled to any sum greater than the purchase price paid to MacroTel for the item of equipment that is malfunctioning.

To obtain service under this warranty, the retail customer must bring the malfunction of the machine to the attention of **MacroTel's** authorized dealer within the twelve (12) month period and no later than thirty (30) days after such malfunction, whichever first occurs. Failure to bring the malfunction to the attention of an authorized MacroTel dealer within the prescribed time, results in the customer being not entitled to warranty service

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No MacroTel dealer and no person other than an officer of MacroTel may extend or modify this warranty No such modification or extension is effective unless it is in writing.



#### MACROTEL INTERNATIONAL CORPORATION

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## FEATURE LISTING

ACCOUNT CODE (UNVERIFIED) ACCOUNT CODE (FORCED) ALPHANUMERIC DISPLAY ANALOG ADAPTOR ATTENDANT AUTOMATIC HOLD **AUTOMATIC LINE SELECTION** AUTOMATED ATTENDANTINTERGRATION BACKGROUND MUSIC **BARGE-IN** BATTERYBACKUP **BATTERY REVERSAL DETECT** BOSS/SECRETARY **BUSY LAMP FIELD** CALL AGAIN CALL FORWARD CALLING PARTY ID CALL OPERATOR CALL PARK CALL PARK ANSWER CALL PICKUP (GROUP/DIRECT) CALL WAITING CAMP-ON (BUSY STATION) CAMP-ON (BUSY LINE) CLASS OF SERVICE CONFERENCE CPID **DATA CALL** DATA RATE SELECTION DEFAULT SETTING DIAL ACCESS TO FEATURES DIAL INTERCOM NONBLOCKING DIAL PULSE TO DTMF CONVERSION DIALING TYPE SELECTION DIRECT INWARD SYSTEM ACCESS (DISA) DIRECT STATION SELECTION (DSS) DISCRIMINATING RINGING DISTINCTIVE RINGING (STATION) DND (DO NOT DISTURB) DND **ÒVERRIDE** DROP TIMEOUT DSS/SPD CONTENT VERIFICATION DTMF RECEIVER DUAL DSS/SPD FUNCTION BUTTON **DUAL VOICE PATH** END-TO-END SIGNALING **EXCLUSIVE HOLD EXECUTIVEBARGE-IN** EXTERNAL CALL FORWARD (ECF) EXTERNAL MUSIC SOURCE **EXTERNAL PAGING** FEATURE ACCESS CODE VERIFICATION FEATURE CANCELLATION FLASH FLEXIBLE LINE ASSIGNMENT FLEXIBLE RING ASSIGNMENT FORCED INCOMING ICM CALL FORWARD **GROUND FLASH\*** HANDSFREE ANSWERBACK HEARING AID COMPATIBLE HOLD HOLD ABANDON HOLD REMINDER HOT DIAL PAD

HOUR MODE SELECTION HUNT GROUPS **ICM RING/VOICE CALL** I HOLD INDICATION I USE INDICATION **KEY INQUIRY** LAST NUMBER REDIAL (LNR) LEAST COST ROUTING LINE GROUP ASSIGNMENT LINE INTERFACE LINE NAME PROGRAMMING LINE POOL LINE SIGNALING LINE-TO-LINE CONFERENCE LINE TYPE ASSIGNMENT LOUD BELL INTERFACE MANUAL LINE ACCESS **MEET-ME ANSWER MESSAGEWAITING MESSAGING (SENDING / ADVISORY)** MIXED DIALING MUSIC-ON-HOLD MUTE (VOICE) NIGHT SERVICE NIGHT SERVICE STATION **OFF-HOOK VOICE ANNOUNCE ON-HOOK DIALING** PAGING PAUSE POWER FAILURE TRANSFER PRIVACY **PRIVATE LINE PROGRAMMABLE USER FEATURE KEYS** PULSE METERING' RECALL RELEASE REMINDER CLOCK REMOTE PROGRAMMING RINGING LINE PREFERENCE SAVED NUMBER REDIAL SHIFT SIMULTANEOUS DATA/VOICE CAPABILITY SOFT KEY FEATURE ACCESS SPEED DIALING STATION FEATURE STATUS CHECK STATION GROUP ASSIGNMENT STATION LOCK/UNLOCK STATION MESSAGE DETAIL RECORDING (SMDR) STATION NUMBERING PLAN SYSTEM TIME TOLL RESTRICTION TONE DETECTOR TONE DURATION SELECTION TRANSFER TRAVELLING CLASS OF SERVICE USER NAME PROGRAMMING VOICE CALL VOICE MAIL **VOLUME CONTROL** WALL MOUNTABLE WARNING TONE · Available in future release

## INTRODUCTION

The MT-360 Series is a high performance digital key telephone system capable of supporting both voice and data applications. It is available in a six-line by **16-station** configuration, with an optional expansion board available, for a configuration of eight lines by 24 key telephones with growth capabilities of up to 360 ports.

The MT-360 Series is based on truly digital **2B+D** technology, with single-pair wire connection between the KSU and the station terminals. Analog terminal adaptors are available, for connection of analog devices (standard telephones, fax machines, voice mail, etc.) to the system. Each Analog Terminal Adaptor uses one station port, and provides connection of two analog devices, doubling the station capacity of the system when standard single line phones are used. (to an 8 X 48 configuration).

Three telephones are available with the MT-360 Series system. The Standard set has programmable feature keys and speakerphone capability. The Display set adds DSS/Speed Dial keys, and an LCD display. The Executive set adds Off-Hook Voice Announce, and' a 9-pin data port / data module for integrated data transmission.

#### Key Service Unit

The KSU (MT-KSU, P/N 3009100) consists of four main circuit boards, as follows:

**MT-COT/6** Six-circuit trunk interface board: (P/N 3009120) Serves six loop start analog trunk interfaces. Trunk 1 is routed to the power failure jack upon system power failure, to provide powerfailure transfercapabilities. *Included in the standard configuration* 

**MT-STN/16** Sixteen station interface / power supply board: (PN 3009122) This board consists of sixteen digital station interface circuits, a digital intercom call progress tone generator, external call progress tone detector, incoming DTMF decoder for DISA, an external music source input for Music-on-Hold/Background music, an external page interface, a loudbell interface, volume control for music sources, a DC power regulator, and a system power backup battery charger.

Connectors on this board include a **50-position amphenol** connector for stations, a phone jack for musicsource input, a phono jack for external page output, and a terminal block for **loudbell** and power battery.

Three 64 KBPS digital signal channels are maintained for each station by the octal transceiver. These digital channel signals are designated as **2B+D** channels. A high performance pulse transformer is built into each station interface for digital signal transactions. *Included in the standard configuration* 

**MT-CCB** Common Control Board : (P/N 3009118) This board contains mainly centralized control circuits. It contains an 8088 compatible 16 bit microprocessor, 256 Kbyte ROM for system firmware, 64 Kbyte CMOS RAM with battery backup, a four-party digital conference circuit, and dual RS-232C serial ports interface (used to access SMDR and remote programming). TSI (Time Slot Interchange) switches four PCM highways of 32 channels each. System programming is protected with rechargeable NiCad battery and a SPDT slide switch for programming clearing. *Included in the standard configuration* 

MT-EXP 208 Expansion board (P/N 3009102) : For expansion to 8 X 24. This board bears two C.O. line interface circuits and eight digital station interface circuits. This expands the KSU from 616 to 824. The KSU cabinet measures 17 x 11.5 x 3.5 in, and weighs 15.4 lbs (7 kg).

#### Service Circuits:

**Tone Plan/Cadence Control:** The tone plan employs digital synthesization technique. The tone signal of specified frequency and level is digitally sampled with A-law or Mu-law encoding scheme. Sampled data are then programmed into an EPROM 27128 (16 KB).

**Music Sources:** Two music sources are implemented: an internal melody synthesizer, and an external music source from a phono jack. The external musicsourcecan be any music/ audio signal, such as a radio, tape player, CD player, etc.

**LoudbellInterfaceCircuit:** A dry relay contact for external loudbellON/OFF control. Any other acoustic device or optical alarm device can be connected to this controlled dry contact.

**Call Progress Tone Detector:** There is an external call progress tone detector to which any of eight trunk signalscan be routed. Output of this tone detector is then routed to Common Control of the KSU for feature support.

**DTMF Decoder:** This is used mainly for **DISA operation**. Any trunk signal can be routed to it during **DISA** feature access.

External **PageCircuit:** The external page interface offers **600-ohm** impedance transformer for coupling audio signals from any extension to the input of external amplifier.

Four station terminals exist for the MT-360 Series, as follows:

## MI-360 **Standard** Set

P/N 3009 106

11 feature keys, five fixed function keys, speakerphone. Utilizes the **B1** channelforvoice, **B2** channel is spare, and the D channel is used for control signals to and from the KSU.

#### MT-360 Display Set

P/N 3009108

11 feature keys, five fixed function keys, speakerphone, one shift key, 12 DSS/SPD keys, and three soft keys. 2 X 16 dot matrix LCD display. Utilizes the B1 channel for voice, B2 channel is spare, and the D channel is used for control signals to and from the KSU.

#### MT-360 Executive Set

P/N 30091 10

11 feature keys, five fixed function keys, speakerphone, one shift key, 12 **DSS/SPD** keys, and three soft keys, 2 X 16 dot matrix LCD display. Off-Hook Voice Announce, and nine-pin dataport. Uses **B1** channel as voice channel, **B2** as either OHVA or data channel. This allows for simultaneous voice and data transmission. The D channel is used for control signals to and from the KSU.







## MT-ATA Analog Terminal Adaptor

#### PIN 3009104

For connection of two analog devices, such as single line phones, fax machines, voice mail, etc. Dimensions: 256 X 141 X 35 mm, input connectors include one DC input six-pin modular jack (RJ-11 C), and one DC power jack for 24 VDC input. Two six-pin modular jacks (RJ11C) are the output connectors. Two analog devices can be connected through each ATA, using only one station port off the KSU. It utilizes B1 channel for voice channel of one of its two tip/ring devices, B2 channel for the other. The D channel is used for control messages to and from KSU.

## FEATURE DESCRIPTIONS

Associated programming categories for appropriate features are shown below feature names in brackets. For more information please refer **to** the Installation and Programming Manual.

## ACCOUNT CODE (UNVERIFIED)

A user may enter an account code of up to eight digits at any time during a call, before the call is terminated. The user can choose on each call whether or not to enter an account code, and the account code can be any combination of digits-they are not verified by the system. Account codes are typically used to charge the cost of a call either to an internal departmental cost center, or to a project account for billing purposes. Conditions:

- Maximum eight digits
- The entered account codes will be printed out on **SMDR** report.

## ACCOUNT CODE (FORCED)

#### [Set, Resource]

To make an outgoing call, a user must first enter a validated account code, when forced account codes are programmed for his station. These account codes are forced and verified against an account code table. Account codes are typically used to charge the cost of a call either to an internal departmental cost center, or to a project account for billing purposes. Conditions:

- Forced account codes can be four-to-eight digits in length.
- Maximum number of different account codes is 100.
- Programmable on a per-station basis.
- The entered account codes will be printed out on the SMDR report.

## ALPHANUMERIC DISPLAY

The MT-360 Series Display and Executive sets have an LCD display used for set messaging, time & date, day or night mode, call processing status, message waiting, and sending messages. It is also a tool for programming and accessing features by scrolling through the feature list on the display and using the three soft keys below the display to invoke the features. Messages are displayed in a preset order according to priority. Conditions:

- The LCD display has 32characters (16 Characters X 2 lines).

#### ANALOG ADAPTOR

An analog terminal adaptor (ATA) can be used to connect a standard DTMF single line telephone set or any two-wire analog device (such as voice mail/auto attendant, fax machine, credit card reader, modem, etc.) to the system via a station port. Conditions:

- Each ATA may connect fwo analog phone sets/devices by using its dedicated B1 and B2 voice channels.
- Because it takes one station port, and connects two standard phones, it in effect doubles the station capacity of the system.
- In this instance, the station numbering plan changes as follows:

	DEFAULT	ATASCONNECTED
DK824	10-33	10 - 33 FOR <b>B1</b> CHANNEL 58 - 81 FOR <b>B2</b> CHANNEL

## ATTENDANT

[Resource]

One station per system is programmed as the attendant. The attendant provides attendant support services, such as line recall, forced incoming **ICM call forward,** etc. The attendant can be reached by dialing "0."

Conditions:

- Default: station #10, port one, is designatedas the attendant.
- Any station can be programmed as attendant.
- Only one station can be attendant, however, other stations maybeprogrammed to answerincoming linecalls, according to requirements.

## AUTOMATIC HOLD

A call is automatically put on hold if another ICM or line key is pressed while the call is in progress. Conditions:

- Programmable by station.

 Automatic hold does not work for an outgoing line call with no digits dialed. The occupied line would be released.

## AUTOMAT/C LINE SELECTION

The system automatically selects either an ICM link, idle line, specific prime line, or any idle line in a specific line group for the station user when he goes off-hook or presses SPK key. Conditions:

- Programmable by station.
- The desired line must be programmed as available to that station, otherwise a warning tone or message will be given to the station every time it goes off-hook.

## **AUTOMATED**ATTENDANTINTEGRATION

Individual lines can be set to ring directly to automatted attendant ports in a hunt group.

#### BACKGROUND MUSIC

When station is not in use (on-hook), the user can enjoy music through the speaker, When the station goes off-hook, the music ceases to play and is resumed after the station is back on-hook.

Conditions:

 If an external music source is provided, such as a tape recorder, radio, or CD player, the system will automatically switch from internalsynthesized music to the external source.

## **BARGE-IN**

#### [Call Handling]

A station may intrude on the ICM or line call of another station, by invoking "barge-in" function. This allows him to have a brief conversation with the other party. It is often used in boss/ secretary phones for the secretary to alert the boss that he may have an urgent call on another line, etc.

Operation:

- An alert tone may be programmed to notify the barged party of the barging party's presence on the call.
- The barged party then has three seconds in which to excuse himself from the original call, at which time the original call is put on soft hold.
- The barging party may then talk to the bargedparty for seven seconds. After seven seconds have expired, another warning tone tells the bargedparty that his originalcallis returned to conversation, and the barging party is disconnected.

#### Conditions:

- Barge-in must be program-allowed on a system-wide basis.

- The barging station must have class of service greater than or equal to the party he has called, or
- A station may barge-in on a station with a higher class of service only if they are in a boss/secretary relationship. (This is station programmable. One secretary can have up to two bosses. See "boss/secretary" feature description.)
- A station may be barged-in by only one station at a time.

#### **BATTERY BACK-UP (MEMORY)**

Battery back-up ensures that the database will be protected and remain valid for **a certain** time after a powerfailure. A **NiCad** battery provides database programming backup. Conditions:

 Normally, the memory content may be retained safety for seven days.

#### **BATTERY BACK-UP (SYSTEM)**

A connection is provided for an external **24-volt** battery supply for total fail-safe operation. Recharging of this battery is provided by circuitry built into the KSU.

#### **BATTERY REVERSAL DETECT**

The system provides detection of the outgoing call being answered by an external party. This enables **a correct** start time for call duration. Whetherthe battery reversal signal can be sent as soon as the external party answers, depends on the Central Office.

#### **BOSS/SECRETARY**

The MT-360 Series stations can be programmed in a boss/ secretary relationship. A secretary can have up to two bosses. A secretary can override do-notdisturb on the bosses' phones, and can use barge-in feature to the bosses'; regardless of class of service programming.

#### **BUSY LAMP FIELD**

MT-360 Series Display and Executive sets have a busy lamp field associated with **DSS/SPD** keys. Through the LED indicators in the BLF, station users can see the busy status of all internal stations.

Conditions:

- 72 LED indicators and a SHIFT key allow user to view 24 stations.

## CALL AGAIN (CALLBACK)

Call again feature eliminates repetitive calling of busy or no answer stations. When station A calls station B and receives either busy tone or no answer, he can select call again feature. **He then** goeson-hook, and thesystem will monitorwhen station B is idle again, or, in the case of no answer, when station B comes back and completes a line or ICM call. Then, the system will call station A, when station A picks up, it will ring station B. Conditions:

- Any station may either invoke call again feature, or have call again feature made on it by only one other station at one time.
- If the system rings station A for more than 30 seconds, and there is no answer, internal ring will be stopped and the call again cancelled (on a Standard set) or remain effective (for Display or Executive set) with notification message displayed on LCD.

#### **CALL** FORWARD

Various **call forwarding** features allow station users to have all calls forwarded to the attendant, another extension, or a voice mail port. This ensures that all calls will be promptly directed to the proper party so callers are not left waiting. There are five types of Call Forward:

- a) Busy Call Forward: Calls are forwarded on busy only.
- b) No Answer Call Forward: Calls are forwarded on no answer only.
- c) Always Call Forward: Calls are forwarded always, regardless of station's status.
- d) Busy/No Answer Call Forward: Calls are forwarded on both busy and no answer.
- e) Follow Me: This is used when a station user is away from his desk and wants his phone forwarded to the new location. Using another station, he can forward his station to that other station. This option forwards all ICM and line calls to the new location. Follow me cancel can be used from any station to cancel the follow me call forward command. This feature relieves the user from having to goback to hisdesktoforward his phone to another station.

Conditions:

Station programmable.

Only one type of call forward can be set on one station at one time.

Call forward and do not disturb functions are mutually exclusive. Only one of these may be programmed on a set at one time.

The maximum quantity of call forward steps is two.

The name of the forwarded station will appear on the LCD display of the station to which a call is forwarded.

No answer time is user programmable per station, that is, each user can program his station to detect no answer **after** 10, 20, 30, 40, or 50 seconds.

#### **CALLING** PARN IDENTIFICATION

On a Display or Executive set, the calling party's identification is shown on the LCD display. His extension number and, if programmed, his name is also shown.

Conditions:

- If the user's name has not been programmed, on/y the extension number will be shown.
- Refer to "user name programming" feature.

**CALL OPERATOR**(CALL ATTENDANT)

#### [Resource]

To call the attendant, simply dial "O", or press ICM and dial "0" directly. This eliminates the need to **dial the** attendant's station number.

#### CALL PARK

Line calls can be put on hold and "**parked**" on acettain orbit. Any station may then pick up the parked call. Each station has an orbit number equal to its station number. This provides an efficient means for the attendant to locate people to answer their calls, and provides excellent telephone coverage - external calling parties can easily get in touch with whom they're calling.

#### CALL PARK ANSWER

Any line call that was "parked" on common hold may be answered by pressing access codes followed by line number or orbit number at any station. Condition:

 Call park answer has no constraints due to line access or line ring assignments, and can be used by all stations.

#### CALL PICK-UP (DIRECT/GROUP) [Set]

This feature allows a station user to quickly and easily answer a call for someone else in the same station group, Condition:

- Calls that can be picked-up include ringing *ICM* calls, voice calls, recalled C. 0. line calls, incoming *C*. 0. line calls, and transferring C. 0. line calls.
- If a station is not assigned to the same station group as a ringing s ration, he can pick up that incoming call by dialing the access code followed by the ringing station number.

## CALLWAITING(ALLOW/DENY)

This allows **a** busy station to accept a waiting call. Conditions:

- Call waiting must be programmed allowed on a per-station basis.
- Call **waiting** answer automatically places the current call on hold.
- This feature is only available on Display and Executive sets.

## CAMP-ON (BUSY STATION)

When calling a busy station, a user can use the camp-on function to ensure that he rings the party as soon as the other call is completed. The calling party remains off-hook and waits until the called party hangs up from the other call, then the system rings the called party immediately.

Conditions:

- Any station that is being camped-on will receive a camp-on notification tone from the handset to remind it that there is an internal party camped-on.
- The notification time interval is programmable as 0, 1 0, 20, 30, 40 or 50 seconds.
- Each station can only be camped on by one other station *at* a time.

## CAMP-ON (BUSY LINE)

When a station user wants to access a particular busy line, he may camp-on that line. When it becomes idle, the system will ring the camped-on party, who then simply goes off-hook to access the line.

Conditions:

- The system rings the station for30 seconds. During this time, other stations cannot access this line. If the camped-on party does not pick up within 30 seconds, the line becomes available to other stations.
- A line may be camped-on by only one station at a time.
- Each station may only camp-on one line at a time.

## CLASS OF SERVICE (COS)

#### [Set]

Stations can receive COS assignments, used to designate which stations can perform certain features, levels of toll restriction, etc. For example, when barge-in is program allowed, the station can barge-in the calls of stations with an equal or lower COS.

Conditions:

- There are eight levels of COS from 0 (the highest) to seven (the lowest).
- Class zero and one: no toll restriction.
- Class two through five: restricted using the toll restriction tables.
- Class six: ICM and outside calls on/y using system speed dial bins 20-39.
- C/ass seven: ICM only.

#### CONFERENCE

Conferences between internal and external parties may be set up by a station user.

Conditions:

Up to four parties may participate in one conference.

Any wmbination of C. 0. lines and ICM lines may be used. Each conference is controlled by one station, called the controlling party. The controlling party is permitted either to invite new parties into the conference or to forcibly release any party from the conference in progress.

The controlling party may hold a private conversation with any of the C. 0. line parties or Internal parties in the conference, while putting the other parties on hold.

If the controlling party exits a conference, the most recently added internal party becomes the controller.

Up to eight four-party conferences can take place simultaneous/v on the svstem.

If one of the outside parties hangs up during a conference. that line is automatically released.

Default: program allowed, with C07 key programmed as the conference key.

## CPID

Called party identification is available forautomatted attendant/ voice mail integration. NOTE : PAUSE TIMER AFFECTS CPID SEND TIME.

## DATA CALL

The Executive sets are equipped with a Q-pin data port. Using this data module, two users can establish a voice call, thensimultaneously make data transmission using any transmission protocol. This is dependent on the data package they are using in PC or DTE for data communication.

Conditions:

- The system provides only a connection bridge in the KSU; it does not contain data transmission protocol.
- The voice call is transparent with the data call. The data call is data transition on/y between the B2 channel, and the RS-232 port.
- The customer needs to install a third party package in PC/ DTE to handle the whole data communication environment. such as protocol handling, data error processing, and retransmission.
- On the Executive Set, the "Redial" key is default programmed as the "Data" key.
- NOTE : During simaltaneous voice and DATA TRANSFER at 19,200 BPS, sometimes LCD errors may be observed. Integrity of Data Transferal is not affected.

#### DATA RATE SELECTION (STATION)

Executive sets equipped with a data port may choose the speed of data transmission at which to communicate. Conditions:

- Four rates may be selected: 2400/4800/9600/19200 bps.

NOTE: During simultaneous Voice and Data Transfer at 19,200 BPS sometimes LCD errors may be observed. Integratey of data transfer Is not affected.

#### DEFAULT SETTING

A user may clear all feature programming for a station, returning it to default status. Conditions:

The features that are reset when the user returns to default

values are as follows: DND (do not disturb) CFW (call forward) Call waiting Auto line selection

Feature key DSS/SPDkey Data rate User password Station lock Ring type Automatic hold Voice call allow

## **DIAL ACCESS TO FEATURES**

Most features can be accessed by pressing access codes as an alternative to using the programmed feature keys.

#### DIAL INTERCOM NONBLOCKING

Intercom calls are free from constraints on switching link resources. The total number of intercom calls are never restricted due to insufficient switching links in system.

#### DIALING TYPE SELECTION

[Line]

The C.O. line can be programmed so that dialing is in pulse (rotary) or DTMF (tone) mode. Conditions:

- Default: All lines are programmed for DTMF (tone) dialing.

## **DIAL PULSE TO DTMF CONVERSION**

A station user can change from pulse dialing to DTMF while on a call.

## **DIRECT** INWARD SYSTEM ACCESS (**DISA**)

[Call Handling]

This feature allows a remote user to access the system to use system features, make outgoing calls, ICM calls, etc., by simply dialing the system and entering his password. This allows employees that are out of the office to make calls using the system's features, long distance lines, etc. Direct dialing to a station may be performed using DISA, by entering the station number instead of a password at the special dial tone. Conditions:

Maximum of one line can be programmed with DISA.

- The activation time for DISA is programmable as "Never", Day", "Night", or "Always".
- Passwords are in the format of "#00000000#".
- There is a time limit to the line-to-line conversation.

The fine-to-fine conversation time is system programmable to one, two, three, five, 10, or 15 minutes. (Default is one minute).

- When the conversation time expires, the user hears a fast busy tone, at which time he can dial "\*" to continue the conversation.
- 24 sets of eight digit passwords are available.
- The final digit of the password is the user's class of service.
- The number of rings before the DISA line picks up is programmable from one to 99 rings, for added DISA line security.

## **DIRECT STATION SELECT (DSS)**

Stations equipped with dual DSS/SPD function buttons are able to press any DSS key to make an ICM call directly to its corresponding station, instead of dialing the station number. Although default values are programmed for DSS locations, each DSS button may also be reprogrammed to access frequently called stations.

Conditions:

12 DSS/SPD keys are located on the MT-360 Series Display and Executive Sets

Each DSS/SPD key stores four numbers: two speed dial locations, and two DSS numbers. When in ICM mode, pressing the DSS/SPD key selects the

DSS number.

After selecting a line, pressing the DSS/SPD key selects the SPD number.

SHIFT key is used to toggle between the two pages of speed dial numbers.

#### DISCRIMINATING RINGING

Incoming C.O. line ring and ICM ring (ICM callback ring) can be distinguished by their different ring time intervals (ring cadence). This informs the station user of the call type so he can answer in a professional manner.

#### DISTINCTIVE RINGING (STATION)

A station user may select one of four different ringing frequencies, so individual stations can be recognized by their different ringing sounds, and answered more efficiently.

#### DO NOT **DISTURB (DND)**

A station user can enable the do not disturb feature to prevent calls from ringing at his station Outgoing calls are not affected. Conditions:

- DND and call forward cannot be enabled simultaneously.
- User with DND enabled hears a special dial tone when making a call to remind him that this function is enabled.
- Incoming lines, ICM, and transferred calls are all blocked from ringing at the station when DND is activated.
- If a boss'phone (programmed in boss/secretary relationship with another station) has DND enabled, any call to that station will forward automatically to the secretary.

#### DND OVERRIDE

A station user with a Display or Executive set may override another station's DND feature if that station has equal or lower COS than the calling station.

Conditions:

 Secretaries can always override their boss' DND regardless of cos.

#### DROP TIMEOUT

#### [Set] [Call Handling]

Drop timeout can be used to limit the length of a user's outgoing line calls. After a specified programmed interval, a warning tone is heard, then the line call is dropped. Conditions:

- Drop timeout and warning tone features must be enabled for drop timeout to take place.
- Drop timeout time is programmable corresponding with warning tone time. This is selectable from one to eight minutes.
- Theuser Willhear the Warningtone 15 seconds before the call is dropped.
- Drop timeout is enabled on a per-station basis.

#### DSS/SPD CONTENT VERIFICATION

The DSS/SPD content verification feature allows the user to examine what station number or programmed speed dial number is assigned to each DSS/SPD button before making a call. Conditions:

The system provides 12 DSS/SPD keys, each of which can store two SPD numbers, and two DSS numbers,

#### DTMF RECEIVER

The DTMF receiver is used to detect tone digits which are dialed by a remote party in order to activate certain features inside the system, such as DISA, external call forward, etc. Conditions:

- One DTMF receiver is provided with the system.

#### DUAL DSS/SPD FUNCTION BUTTON

DSS/SPD keys are used for DSS calls in ICM mode, and for SPD calls on a C.O. line. Each button stores two DSS locations, and two SPD numbers, accessed by pressing the SHIFT key. Conditions:

- There are 72 DSS/SPD keys located on the MT-360 Series Display and Executive sets.
- When in ICM mode, pressing the DSS/SPD key selects the DSS number.
- After selecting a line, pressing the DSS/SPD key selects the SPD number.
- SHIFT key is used to toggle between the two pages of speed dial numbers.

#### DUAL**VOICE** PATH

The Executive set is equipped with a second voice path, so the user can conduct two simultaneous conversations-one through the handset, and one through the speakerphone. The speakerphone conversation begins when he is busy on a handset conversation, and another station user makes an off-hook voice announce (OHVA) call to him. Conditions:

- The **called** party can reject the OH VA by pressing REJECT at the soft key prompt.
- See "off-hook voice announce" feature for more information.

#### END-TO-END SIGNALING

Whenastation hasdialedanoutsidecallonarotarylineinpulse mode, and needs to change to DTMF during a call (to access voice mail, computer applications, etc.), he simply dials "\*" to switch the dialing from pulse to DTMF.

#### EXCLUSIVE HOLD

Normally, when a user puts a call on hold, any other station can pick up that call. Exclusive hold enables the user to prevent other stations from picking up the held call. Conditions:

- Used only for a line call, not on ICM calls.
- The exclusive hold time is programmable from one to eight minutes.
- After the exclusive hold time has expired, the line will recall to the station that had it on exclusive hold. If there is no answer at that station after 30 seconds, the line will recall to the attendant, If there is no answer at the attendant after 30 seconds, the call is put on common hold.
- Pressing the FUNCTION key, then the HOLD key, enables the exclusive hold function, providing an easy way of accessing the feature.

#### EXECUTIVEBARGE-IN

If the boss/secretary relationship has been programmed between two stations, the secretary can barge-in on the boss' line regardless of COS.

Conditions:

- The maximum bosses per secretary are two.
- System barge-in function must be enabled.
- See "barge-in" feature for more information.

## EXTERNAL CALL FORWARD (ECF)

#### [Call Handling]

Incoming calls to the system on a given line can be forwarded to one external call forwarding line to be transferred to one remote answering point. This is usually used to transfer to an answering service or home office after hours, especially in applications where it is important to always have a "live" person answer the phone, such as doctor's offices, etc.

Conditions:

The ECF can be programmed as "Day': "Night': "Always", or "Never".

This remote answeringpointmust bepreprogrammed to one specified SPD location.

The call will be released after a certain time has elapsed, unless the forwarded party dials a specified digit to finish the conversation, or a notification digit is dialed to continue conversation rime.

The conversation time is programmable as one, two, three, five, **10** or 15 minutes.

30 seconds before conversation rime ends, the system will give a two second warning tone to the user. To extend conversation time, caller may dial" **\***."

#### EXTERNAL MUSIC SOURCE

A tape player, radio or CD player, can be connected to the system to provide music-on-hold and background music as an alternative to the internal synthesized music provided with the system. Conditions:

- When an external source is connected, the system automatically switches from playing the internal synthesized music to the external source.

#### EXTERNAL PAGE

The MT-360 Series has a connection for external paging. A **seperate** amplifier or amplified speaker is required.

#### FEATURE ACCESS CODE VERIFICATION

Feature access codes can be verified before entering intoprogramming mode, preventing wrong or forgotten feature access codes while programming. This feature acts as a **built**-in user guide.

Conditions:

- Only available on Display and Executive sets.
- Using the FUNCTION key and "Next" soft key, user can scroll through the feature list to see available features and access codes.
- If desired, the features can be activated during this process, by simply following prompts on the screen and pressing soft keys.

#### FEATURE CANCELLATION

Station user can cancel some of the programmed features by pressing the FUNCTION key, **\*\*** "followed **by the** corresponding feature access code.

Conditions:

- The follo wing features can be cancelled by pressing "F \* nn" (where "F" = FUNCTION key, "nn" = feature number)
  - F # 90 Advisory Message Delete
  - F \* 91 Call Again Delete
  - F \* 92 Set Reminder Clock Delete
  - F **\* 93** Camp on Busy Line Delete
  - F \* 94 Auto Hold Delete
  - F **\* 95** Auto Line Selection Delete
  - F **# 96** Message Waiting Delete
  - F.98 Voice Call Deny
  - F # 99 Call Waiting Deny

#### FLASH

#### [Call Handling]

The FLASH key or its access code may be pressed to generate a loop break time on the outgoing line call. This is used most commonly behind PABX or **Centrex** applications, to access the PABX or **Centrex** features.

Conditions:

- The flash break time is programmable from 100 ~ 1500 ms.

#### FLEXIBLE LINE ASSIGNMENT (Set]

Any C.O. line can be assigned *to* a specific station to be used for outgoing calls.

#### FLEXIBLE RING ASSIGNMENT [Set]

Flexible ring assignment allows programming which stations receive line ringing. If assigned to ring, that line may be answered by that station by simply going off -hook. Conditions:

- Programmed for day and *night modes*, on *a* per-line basis.

# FORCED INCOMING INTERCOM CALL FORWARD

Station user may enable DND to force an incoming call, as it is ringing, to be forwarded to the attendant. This is especially useful if he has a Display or Executive phone, as he can see from the display who is calling. He **may** choose to pick up if it is an important call, or to force the call to the attendant if he is busy and the call is not crucial.

Conditions:

- Call forward must be disabled.
- Simply press DND key (ifprogrammed) or press FUNCTION key "4" to force call to attendant.

#### HANDSFREE ANSWERBACK

This function enables station users to answer any ICM or line call through the speakerphone instead of lifting the handset. Conditions:

- User activates handsfree key, which stays lit, to enable handsfree answerback.
- MUTE key can be activated in idle mode to prevent callers from listening to private conversation in offices when making handsfree calls.

#### HEARING AID COMPATIBILITY

All station handsets are hearing aid compatible as defined by FCC part 68.

#### HOW

A station user can put an ICM or line call on hold at any time. The holding party hears background music-on-hold. An ICM call on hold cannot be picked up by a different station, while a line call on common hold can be picked up by any station. Conditions:

- Pressing HOLD key willplace the current call on hold, or put a conference on exclusive hold (if you are the controlling party).
- For more information, see "exclusive hold' feature.

## HOLD ABANDON

The held line call will be disconnected automatically when the system detects that the held party has hung up. (A direct current interruption (DCI) signal has been received from the C.O.) Conditions:

- This function is programmable on a per-line basis.
- This function is performed on all types of hold, such as common hold, exclusive hold, and conference hold.

#### HOLD REMINDER

The system will recall the station user to remind him that a call is on hold (whether on a line or ICM call). It occurs after a programmable interval.

Conditions:

- Hold time is programmable, as I, 2, 3, 4, 5, 6, 7, or 8 minutes (or disabled).
- After hold time has expired, the line recalls to the station that put it on hold. If no answer after 30 seconds, it recalls the attendant. It is returned to common hold if it is not answered by the attendant within 30 seconds.

#### HOT DIAL PAD

Station may make an ICM call directly by dialing the station number from dial keypad without having to press ICM key first. To initiate a line call without first pressing a line key dial "9."

#### HOUR MODE SELECTION [Resource]

The clock may be programmed to be either a 12-hour or a 24-hour (military time) clock.

#### HOLD INDICATION

A fast green flash on a line lamp indicates that the line call was **placed on** hold by you. Other system users see that line on their stations as a slow red flash.

#### **HUNT GROUPS**

Eight hunt groups are available for intercom hunting and automatted attendant/voice mail integration

#### I USE INDICATION

A steady green on a line lamp shows that you are talking on that line. Other users see a steadily lit red lamp on this line.

#### ICM RING AND VOICE CALL INTERCHANGING

When making an ICM call, a user may choose ringing or voice announce. With voice announce, he just speaks to the called party through the speakerphone, and no ringing occurs. If the called party has voice call enabled. This is very useful for applications where the called party is busy and can't pick up the phone, but can hear and **speak to** the speaker, such as a doctor in surgery.

Conditions:

 The MUTE key works in idle mode to prevent users from making a voice call, remaining silent, and listening in to a private conversation in another user's office. If MUTE key is turned on, the called party must press the MUTE key to turn it off in order to answerback a voice call.

#### **KEYINQUIRY**

A station user may customize his set by programming feature keys. The key inquiry feature displays the feature programming of each key, so user can check to see programming on each key. Please refer to "programmable user feature keys" section. Conditions:

- The total number of programmable user feature keys is 11.

#### LAST NUMBER REDIAL(LNR)

The system will dial the last number dialed from that station when the LNR feature is invoked.

Conditions:

- When invoked in idle state, the system will access the same line that was used the last time **that** number **was** dialed.
- If that line is busy, the user has the choice to "camp-on" that line, or press "autoln" to access any idle line to dial the number.

#### LEAST COST ROUTING (LCR) [Restriction]

With LCR, the system will choose a line **based on** your programming of four tables. The code dialed, the time of day and the users routing COS are all considered in processing the call. The tables used in LCR are as follows:

#### 1) Digit Comparison Table (1 each)

This table has 200 entries and is programmed with each code that is to be routed by LCR. The **\* \*** may be used a **wildcard** to indicate any digit (O-9) in any position. For example, **\*\*0\*** would represent any area code with a "0" as the middle digit. For each code entry in the "Digit Comparison Table" a "Day Time Table" is specified.

#### Time Table" is specified. 2) Day Time Table (45 each)

These tables have six time entries which represent six different periods of the day, and point to a "route list" for each "routing COS." This allows for different routing at different times of the day.

#### 3) Route Lists (200 each)

Each route list has four choices for the use of the available lines. Each choice also allows for pointing to a "Digit Modification Table."

#### 4)DIgit Modification Tables (100 each)

The "Digit Modification Tables" allow for stripping digits from the front of the digit string as in the case of using an FX. After stripping, a new digit or string of digits may be dialed at the front end, in place of the original digits. For example, dialing 1-212-245-0987 might call for using an FX into the 212 area code in which case the 1-212 would be stripped and only 245-0987 would be dialed.

#### Conditions:

- Routes are defined in the route table, and are accessed by route lists.
- Each **route** list contains the first choice route number and up to three alternative route numbers.
- Selective routing by class of service determines which routes the user can access and at what times during the day, based on his routing class of service.
- Each user is assigned to one of four routing classes of service.

## LINE GROUP ASSIGNMENT [Line]

Lines can be assigned to one of two line groups, Then, when a user accesses a line group, he will occupy an idle line in that group.

Conditions:

- Maximum of two line groups can exist.

- Each line can only be assigned to one of the groups.

#### L/NE INTERFACE

Loop start line interface is used to the Central Office.

#### LINE NAME PROGRAMMING [Resource]

Lines can be given names that appear on the LCD display when ringing, or selected for an outside call. This enables the user to answer the call appropriately.

Conditions:

- The maximum length of a line name is seven characters.
- The line name will be displayed for incoming and outgoing calls.
- Line number is replaced with line name.

#### LINE POOL [Line]

A line key can be programmed as a line pool (line group) key. All lines in that line group are accessed by pressing the line pool key. Incoming line calls in the line group are answered by pressing the line pool key. Pressing the line pool key to make a call accesses an idle line in that line group.

Conditions:

- There is no limitation in assigning lines to keys - **a** line may be assigned to more than one key with the same line number or line group number.

#### LINE SIGNALING [Set]

When an incoming C.O. line is signaling, stations with ring assignment enabled will begin ringing, and the line call status can be monitored from the display (if it is a Display or an Executive set).

Conditions:

 Only those stations with corresponding line ring assignment can display current incoming line call status and receive ringing.

#### LINE-TO-LINE CONFERENCE [Call Handling]

A conference can be established with one inside party **and two** outside parties. The inside party can then dropout, leaving only the two outside line parties in the call.

Conditions:

- The inside party can re-enter the conversation at any time.
- There is a programmable time-out period of one, two, three, five, 10, or 15 minutes. After this time has elapsed, the two outside parties are dropped.
- The outside party can dial" \*" to extend the conversation time period. He will hear a warning tone 30 seconds before the talk time expires, at which time he shouldeither enter the extension digit, or end the call.

#### LINE TYPE ASSIGNMENT [Line]

Each C.O. line can be given an assignment based on where it is connected, i.e. to the Central Office, or behind a PABX. Conditions:

 For PABX type line, the user has to dial a PABX access code before dialing an outside number. If the PABX access code is programmed, dialing it inserts a pause following that digit.

## LOUD BELL INTERFACE

One loud bell connection port is provided per system. Thisallows the connection of an external loud bell device to ring when the assigned incoming line is ringing. This connection provides a metallic closure.

Conditions:

- Can be programmed for "Day", "Night, " "Always" or "Never."

#### MANUAL LINE ACCESS

A station user **may** press the line key to make an outgoing call, answer an incoming call, or take a call off hold. Conditions:

- The corresponding line key must be present on the user's station to **manually** access the line.

#### **MEET-ME ANSWER**

A page can be picked up by pressing an access code from a station set. This allows for much flexibility, as the person being paged can pickup from any station. Conditions:

- Thepagecan begrouppaging, al/paging, orexternalpaging.
- Any station can pick up the page, when it's in al/paging mode.
- Group pages can only be picked up by a station in that group.

#### MESSAGE WAITING (Resource]

When a user calls a station and doesn't get an answer, the user can leave a message on the LCD display of the station he is calling. A regular callback message can be left, or the user can choose a canned message. The station receiving a regular message can respond by pressing the "Reply" soft key or, the user may press "More" to see other messages or, "DEL" to delete messages.

Conditions:

- There are seven canned messages to choose from.
- One of the seven canned messages is programmable by each station user, allowing for truly personalized messages.
- The six system-wide messages are as follows: "Have a Good day\*, "Call Operator", "Call Home", "Callback", "Friend Visiting", and "Urgent".
- System-wide, a maximum of 24 messages can be let? simultaneous/y.
- A station may receive messages from many different stations, but may receive only one message from the same station simultaneously.
- On the standard set, the message waiting is the ICM key flashing.

#### MESSAGING (ADVISORY) [Resource]

A station user may leave a message on his LCD set, so others calling him will see this message. This is called an advisory message, and provides information to the calling party. Conditions:

- Sixpre-programmed and one userprogrammable message are available.
- The six default pre-programmed messages are: "At lunch, "Be Back Soon", "Gone Home', "In A Meeting", 'Out of Office: and "On Vacation".

#### MIXED **DIALING**

The station user may switch from pulse to tone dialing while making an outside call. Pause/flash can also be inserted at any time. This is useful for dialing out pulse, and switching to tone to communicate with automated attendants, voice mail, and other computer applications.

#### MUSIC **ON** HOLD

Music is heard by the held party of an **ICM** or C.O. line call. This music can be from an external music source, or, if no external source is connected, from the system's internal synthesized music.

#### MUTE (VOICE MUTE)

The mute feature enables a station user to talk privately to someone in his office without being heard through the phone, while he's on a call. He can still hear the other party, but they cannot hear him.

Conditions:

- Mute is effective whether on a line or intercom call.
- Mute can also be turned on when the phone is in idle mode. This is used when voice calling is enabled, if the station user wants to disable other stations from hearing what is occuring in his office when making a voice call to that office. They will still be able to make the voice call, but he will have to deactivate mute feature in order to respond. With MUTE key not activated in idle mode, he can answerback handsfree to voice calls.

#### NIGHT SERVICE [Resource]

Two service modes existforthe MT-360 Series: night and day. The system can be put in night mode if calls need to be handled differently after hours.

- Conditions:
- The service mode can be programmed to change automatically at a certain time of the day,
- The night end time is always the same as the day start time.
- Day stations continue to ring while in night mode.

#### NIGHT SERVICE STATION [Set]

Any station programmed with night service function will ring for incoming line calls at night time in addition to any other station programmed to ring. This allows security people to pick up ringing lines from any night service station, while doing rounds.

#### OFF-HOOK VOICE ANNOUNCE (OHVA)

A station user can talk to a busy station through the second voice channel via the speakerphone, if that busy station is an Executive set.

Conditions:

- The called station's conversation must be through the handset: it cannot be through the speakerphone if he is to receive an off-hook voice announcement.
- The called party may reject the off-hook voice announce by pressing "Reject" soft key.
- The called party may respond to the voice announce party through speakerphone, while the original call is in progress through the handset.

#### **ON-HOOK DIALING**

The user can press ICM or line key to dial an ICM or outgoing call without lifting the handset. Conditions:

 Because of hot dial pad feature, it is not necessary to press ICM before dialing an ICM call.

#### PAGING

Five types of paging exist as follows: Voice announce (to a single station) All paging (to all stations) External paging (using external paging equipment) All and external paging

Group paging (to a specified group of stations) Conditions:

- Every station is capable of paging. The paged station(s) will hear the announcement through the speaker.
- Any station may answer the page, regardless of where the page was received.
- if a station is set for voice call deny, it will not receive pages,

#### PAUSE [Call Handling]

The pause operation is used to stop dialing temporarily, waiting for a response or further processing in the Central Office, in order to perform certain feature applications, such as behind **Centrex**, etc. Pause may be inserted between two digits in a speed dial string, or manually dialed when placing a call, in order to replicate it for redial. Conditions:

- Pause time is programmable as 1.5, 2, 3.5, or 5 seconds.

#### POWER FAILURE TRANSFER

In the event of a power failure, the system will automatically switch the first line to a dedicated phone connection port. Incoming line one will ring at this port. A standard single line phone must be used

#### Note : Also affect CPID send time

#### PRIVACY

All calls are private, except where barge-in has been programmed allowed.

#### PRIVATE LINE [Line]

A station can be assigned a private, exclusive line to use. No other station can access this line to make outgoing calls. However, incoming calls on this private line can still be answered by other stations with that ring assignment. Held calls can be picked up by any stastion.

- Conditions:
- An incoming call of a station's private line will ring its private station regardless of whether the line ringing assignment is made.

#### PROGRAMMABLE USER FEATURE KEYS

Each station is equipped with 11 programmable keys which can be programmed asfeature keys. This allowsdirect activation of that feature, by simply pressing the feature key. Usually some of these keys will be programmed as line or line group keys.

Conditions:

- Eight of those keys have dual color lamps and can be line group, line or feature keys.
- Default functions and lines are programmed to feature keys upon installation, and may be changed to suit user's requirements.

#### **RECALL** [Call Handling]

Any transferred line call not answered within a specified time will recall the attendant and will appear as a brand new incoming call.

Conditions:

- A recallmessage (including line numberand station number) is briefly displayed on the LCD display upon answer to distinguish it from a new incoming call.
- Recall time is programmable as 30, 60, 120 or 180 seconds.

#### RELEASE

The RELEASE key is used to finish or abandon feature programming, and to drop a call without hanging up the handset,

#### **REMIN DER CLOCK** [Resource]

There are two kinds of reminderclockfunctions. One is system wide, and one is programmed by station. When the system wide reminder clock is activated, all idle stations receive back-ground music for one minute. When a station reminder clock is programmed, that station will display a notification message on the LCD, and alert ringing will be heard.

- Conditions:
- There are eight system reminder clocks, and one station reminder clock.
- The station reminder clock will alert a set upon reaching the station programmed time, even if the set is off-hook on a call.
- After the station reminder clock has alerted the set at the programmed time, it is cleared automatically. System reminder clock continues to go off daily.
- To stop the alert tone on a station reminder, the user may press "ACK" (Acknowledge) soft key, or go off-hook.
- The alert ringer sounds once every five seconds for one minute.
- On a Display or Executive set, an alarm notification message is displayed on the LCD even after the station alert ringer has stopped.

#### REMOTE PROGRAMMING

When a personal computer is connected to the system, extensive changes / modifications to the system and data base can be made, either on site, or from a remote location. This saves much time and money as in many cases a technician does not have to travel on-site to modify the system - it can be done from the dealer's location via modem.

Conditions:

- Remote programming is connected through the **RS-232C** port on the **KSU**, or by a standard modem.
- The station user may change the data base first on the PC according to specific requirements, and then download the new data base, on-line into the system.
- This can also be used to upload the current system data base to PC for backup.

#### **RINGING L/NE PREFERENCE**

Incoming calls are answered by predefined priority when a user presses handsfree or lifts handset to answer a call. Conditions:

- This priority is as follows:
  - 1) Incoming line call
  - 2) Recalled line call
  - 3) Transferred line call
  - 4) Camped line call
  - 5) Call Again ICM call
  - 6) Incoming ICM call

#### SAVED NUMBER REDIAL

A station user may temporarily store a dialed busy number into a predetermined memory location. Upon completion of further calls, the stored number can be retrieved and automatically dialed.

Conditions:

- The system will choose the line on which the callpreviously went out.
- If the previously used line is busy, the user will hear a tone, and have the choice of camping on until the line is idle, or selecting another line.

#### SHIFT

The SHIFT key is used on the Display and Executive sets for toggling to the second "page" of DSS or speed dial numbers on the DSS/SPD keys. The button islitwhenyouareonthesecond page of keys. When in programming mode, the SHIFT key is used like an EXIT key. It brings you back one step to the immediate higher level programming step or category.

#### SIMULTANEOUS DATA/VOICE CAPABILITY

The Executive set can interface with any data device, such as a PC, through the O-pin data port. When a data device is connected, the user may activate a data transmission at the same time a voice conversation is in progress.

Because the data and voice calls use different channels (B1 and B2), they do not affect each other.

#### SOFT KEY FEATURE ACCESS

Three soft keys are provided on the Display and Executive sets. They correspond with prompts on the LCD display, and are used for fast, easy, user-friendly feature operation. They allow the user to scroll through features, and activate features and programming without having to remember or look up feature access codes.

#### SPEED DIALING (STATION)

Each station can have its-own private speed dial numbers. Conditions:

- Up to 20 private speed dial numbers (00- 79) can be stored or cancelled at any station set.
- Each private speed dial number can store up to 76 digits.
- **Speed** dial numbers can contain pause, flash, or SPD chaining as digits.
- The digits "#" and 'Y" are treated as normal dialing digits when in the TONE dialing mode. When in the pulse dialing mode, the digit "#" represents the code for pulse to tone conversion, and the digit "#" will be ignored.

#### SPEED DIALING (SYSTEM) [Resource]

Speed dial numbers can be stored **by** the system, to be accessed by all specified stations. Conditions:

- Up to 80 system speed **dial** numbers can be stored by the system, to be accessed at all specified stations.
- Each system speed dial number can store up to 16 digits.
- Speed dial numbers can contain pause, flash, or SPD chaining as digits.
- Any station **COS zero** to six can use the SPD numbers 20-39 regardless of the station's toll restriction.
- The digits "#" and "\*" are treated as normal dialing digits when in the TONE dialing mode. When in the pulse dialing mode, the digit "\*" causes the system to begin sending DTMF on the line and the digit "#" will be ignored.
- Speed dial number code assignments are as follows:
   20 39: Emergency number. Stations with COS *0* to 6 can use this category.
  - 40 99: Common number. Stations with COS 0 to 5 can use this category.

#### **STATION FEATURE STATUS CHECK:**

The Display and Executive sets can show the current content of certain feature programming.

Conditions:

Feature status that can be checked include:

LNR digits SNR digits Day class of service Night class of service Automatic hold (allow/deny) Set lock/unlock Voice call (allow/deny) Call waiting (allow/deny) Night set (yes/no) Data rate

#### STATION GROUP ASSIGNMENT: [Set]

Stations may be assigned group numbers for call pickup and page.

Conditions:

- The maximum number of groups available is eight.
- Each station may be assigned to only one group.

#### STATION LOCK/UNLOCK:

A station user may lock his station to prevent others from making outgoing calls from his station while he is away. Conditions:

- By dialing a feature access code, and a pass word the station can be locked and unlocked.
- The user may change his password at any time for security. If a password is forgotten, it can be checked in the database.
- A locked station can still make intercom calls, and pick-up incoming calls.

#### STATION MESSAGE DETAIL RECORDING (SMDR) [Peripheral]

Provides a record of all call information, such as calling station, line number, ring time (for incoming calls), number dialed (for outgoing calls), start time, call duration, and account codes. Conditions:

A serial printermust be connected through the RS-232 Cport on the KSLJ.

Battery reversal detection is optional to determine when an outside call is completed.

The maximum storage buffer is 50 call records.

The printout contains information such as, incoming calls, local calls, long distance calls and account codes.

#### STATION NUMBERING PLAN [Set]

The system provides a default station numbering plan. Conditions:

- Stations on the 824 system are default numbered 10 33.
- This station number is programmable the stations can be changed to numbers 10 - 89.
- When a user chooses a vacant station number, his original number becomes vacant.

#### SYSTEM TIME

There is a programmable timer in the system to count the system time, used for certain features such as: system service mode change (day/night), SMDR call timing, reminder clock and time and date.

## TOLL RESTRICTION

Toll Restriction controls the access of a station to make long distance calls based on the Station's class of Service and the Systems Day or Night Mode Operation. Tables list digit strings to be allowed or denied.

NOTE : The Digit '\* ' is used as a "wildcard" digit in the toll control tables.

### TONE DETECTOR

The system provides the capability to detect call progress tones for special feature implementation, such as DISA, automatic redial, external call forward, etc.

Conditions:

- The detector responds to signals between 300 Hz and 630 Hz with a threshold of -39dB typical.
- Four kinds of call progress tone can be detected, including dial tone, ringback tone, busy tone, and reorder tone.
- There is one tone detector per system.

## TONE DURATION SELECT/ON

#### [Call Handling]

Three different tone durations for **DTMF** dialing are selectable, to ensure compatibility with other exchange systems and analog devices to which the system is connected. Conditions:

- Can be programmed to 70, 120 or 150 ms.

#### TRANSFER

A station may transfer an ICM or line call to another station (provided DND is not enabled on that station). Conditions:

- A screened transfer is made by placing the ICM/line call on hold, calling another station, anhouncing the call, then hanging up. The held call is then talking to the new internal party.
- During an unscreened transfer, the originator hangs up before the other internal party ans wers. If it was an ICM call, the original held party becomes the new calling party with **ringback** tone and wait for answer of the internal party.
- The ring transfer time for a line call is programmable.
- If the transferred line call is not answered within the allowed transfer time, the held call will recall to the transferring parry.
   If they do not pick up within a specified time period, the line recalls the attendant.

## TRAVELLING CLASS OF SERVICE

A station user can carry his class of service to another station to make outgoing calls. If Station A user had a higher class of service than station **B**, but was in Station **B's** office, he can use his class of service to make an outgoing call, avoiding the toll restriction, or other limitations of Station B's class of service. Conditions:

- Travelling class of service is only effective for calls made within one minute of entering c/ass of service.

## USER NAME PROGRAMMING

#### [Resource]

Each station can be assigned a specific name for identification. This name shows up on **the** LCD display of other stations when they receive an intercom call from that station, when that station leaves a message, etc. **If** no station name is programmed, the station number will appear.

Conditions:

The maximum length of user name is seven characters.

## VOICE CALL

A station user may voice call another station through the speaker, and the called party can answerback handsfree through the speakerphone.

Conditions:

 The digitalset can selectively disable this function to prohibit the voice call announcement, so only ringing ICM calls are allo wed. - The MUTE key can be enabled in idle mode so when a voice **call is** made to that station, they cannot hear what is going on in the office until the user de-activates the mute feature. This provides more privacy to the called party, if required.

## VOICE MAIL

#### [Peripheral]

Analog voice mail systems can be used with the MT-360 Series system, connected to an Analog Terminal Adaptor (ATA) (P/N 3009104). Each station has a private voice mail box number, that is recognized by voice mail systems. CPID (calling party identification digits) are sent from the system for specialized voice mail applications.

- Conditions:
- One ATA uses onestationportoff the KSU, and provides two analog ports.
- Applications and specific operation will depend on the voice mail system.
- Pause Time Affects CPID send time.

#### **VOLUME CONTROL**

The station user may control the volume level of ringer, speaker, and handset.

Conditions:

- The handset volume is returned to the normallevelaftereach conversation.
- Ringer and speaker volume remain at the level the user selects.

#### WALL MOUNTABLE

The KSU and station sets are designed to be able to mount on the wall, or sit on the desk, as required. The set stand can be flipped backward to act as a wall mount unit.

#### WARNING TONE

#### [Call Handling]

This feature provides a warning tone before the Drop timeout feature drops a call.

Conditions:

- This feature must be activated for drop timeout feature to work.

# MT-360 SERIES DIGITAL KEY SYSTEM

# PROGRAMMING & INSTALLATION MANUAL

# **SECTION 2**

## INTRODUCTION

The MT-360 Series is designed to be easy to use, install, and program This SYSTEM INSTALLATION AND PROGRAMMING GUIDE is written to provide detailed installation instructions, and to guide you through System Programming

#### INSTALLATION

This section describes the installation of the MT-366 Series The KSU cabinet includes power supply **and all** common control ooards. The basic configuration has capacity for6 Central **Office (C** 0) lines, and **16** telephoneextensions Using an expansion board, **the configuration** becomes 8 C 0 lines, and 24 digital extensions. If analog adaptors are installed, up to 46 analog extensions can replace the 24 digital extensions

#### REGISTRATION NUMBERS

This digital hybrid key system has the following registration numbers FCC DEXTAI-65783-MF-E FCC DEXTAI-20361-K F-E REN 15 B

#### ENVIRONMENTAL REQUIREMENTS

The area in which the KSU will be installed must comply with the following requirements Relative humidity may vary between 20 - 80% and the temperature may vary between +40 and +104 degrees Fahrenheit The air humidity relationship must prevent condensation

Do not expose equipment to direct sunlight, to avoid heat generation in the unit.

The KSU must not be located near copy machines or other equipment that can produce electromagnetic interference

The air must be free from dust and smoke. It shall not contain gases, or acid fumes that can attack metal parts or insulation materials

#### TOOLS

No special tools other than normal installation tools are required.

## IMPORTANT SAFETY INSTRUCTIONS

Read and understand all instructions

8

- Follow all warnings and instructions marked on the product 2.
- Unplug this product from the wall outlet before cleaning Do not use liquid cleaners or aerosol deaner Use a damp doth for deaning. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, Do not **place** this **product** on an unstable cart, stand, or table The **product** may fall **causing** serious damage to the Product. З.
- 4 5.
- Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug or similar surface. This product should never be placed near or-over a radiator or heat register This product should not be placed in a-built-in installation unless proper ventilation is provided

- proper ventilation is provided This product should be operated only from the type of power source indicated on the marking label If you are not sure of t he type of power supply to your home, consult your dealer or local power company (if provided with a grounded type attachment plug) This product is equipped with a three-wire grounding type plug, a plug having a third (grounding), pin This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet Do not defeat the safety purposes of the grounding type plug. (If provided with a polarized attachment plug) This product is equipped with a polarized line plug (a plug having one blade wider than the other) This plug will fit into the power outlet only one way This is a safety feature If you are unable to insert the plug fully into the outlet try reversing the plug the plug the plug one way This is a safety feature If you are unable to insert the plug fully into the outlet try reversing the plug if the plug should still not fit, contact your electrician to replace your obsolete outlet Do not defeat the safety purposes of the notate try reversing the plug if the plug the plug the safety numbers of the notation of the plug if the plug 8 should still not fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purposes of the polarized plug.
- 10.
- Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock, Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could 11 result in a risk of fire or electric shock Never spill liquid of any kind on the product
- 12. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is To reduce the first of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service of repair work is required Opening or removing covers may expose you to dangerous voltages or other risks. In correct reassembly can cause electric shock when the appliance is subsequently used
  Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions
  A When the power supply cord or plug is damaged or frayed
  B If liquid has been spilled into the product
  C. If the product has been exposed to rain or water
  D If the product has been exposed to rain or water
- 13

  - If the product has been exposed to ran of water
     If the product does not operate normally by following the operating instructions Adjust only those controls, that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore **the** product to normal operation
  - E If the product has been dropped or the cabinet has been damaged
- F If the product has been displaced in the cabiner has been damaged 14. Avoid using a telephone (other than a cordless type) during an electrical storm There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak 15
- 16
- Never install telephone wiring during a lightning storm Never install telephone wiring during a lightning storm 17
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the 18. network interface.
- Use caution when installing or modifying telephone lines, The exclamation point within an equilateral triangle is intended to alert the user to **the** presence of important operating and maintenance (servicing) instructions in the literature accompanying the product The installation instructions provided with equipment intended to be locally powered over telecommunications wiring systems shall include all of the following 19

  - A. The current limitations and maximum overcurrent protection for Level C circuits.
     B. Reference to the specific power supply or current limiting device provided with the product and,
  - Detailed instructions showing the proper method of installation and connections to the telecommunications wiring system.

#### To reduce the risk of fire or injury to persons, read and follow these instructions

- Use only the following type and **sizebattery(ies)**: Lead-Acid Battery 24V Do not dispose of the **battery(ies)** in a fire. The cell **may** explode Check with local codes for possible special 2 disposal instructions.
- З. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin It may be toxic if swallowed
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, 4
- and keys The battery or conductor may overheat and cause burns Charge the **battery**(**ies**) provided with or identified for use with this product only in accordance with instructions and limitations specified in this manual. 5
- 6
- Observe proper polarity orientation between the **battery(ies)** and battery chargers Do not mix old and new batteries in this product (applies to products employing more than one user replaceable 7 secondary battery)
- Do not mix batteries of different sizes or from different manufacturers in this product (applies to products employing 8. more than one user replaceable secondary battery).

#### MOUNTING THE CABINET

The central unit (KSU) is a single cabinet to be mounted on the wall. **It** should be situated so that it is easily accessible, to ease installation and maintenance.

At least 12 inches of free space must exist above and below the cabinet. 12 inches are also required on the right side of the cabinet in **order** to connect the cables.

Screw the mounting screws into the wall, 7.5 inches apart, and about 63 inches from the floor. Allow a bit of the screw to protrude between the wall and the screw head.

Hang the KSU cabinet on the screws.

#### CONNECTION OF CABLES



Run the cables for the external (C.O) lines and for the telephone extensions from the cabinet to the MDF or the distribution blocks A twisted two-wire cable, of 24 AWG, is recommended as the extension cable. The maximum loop range for the **digital** extensions is 984 feet. Induded are three cables for the external **lines** cable 1 for lines 1-3, cable 2 for lines 4-6, and cable 3 for lines 7-8. the cables are three-pair with modular plugs **6/6** in one end. A 25 pair with a 50 pin **Amphenol** plug (female) cable is required for telephone extensions (Not included)

It is recommended that excess voltage protection be installed on aerial lines or other lines where there is a **risk** for excess voltage There is one connection on the KSU for a power failure transfer phone. One standard single line telephone set should be connected here. In the case of a power failure, line 1 will be connected to this telephone set. The power outlet must be **dedicated** 116-240 volt, **50/60** Hz, 3-wire 10 Amps. **IT SHALL NOT BE** SWITCHED. Power outlet should be within reach of the **KSU's** power cord. Avoid using extension cords.

#### SYSTEM SPECIFICATIONS

#### ELECTRICAL CHARACTERISTICS

POWERRATING	
115V @ 0.5 Amp	(105 <b>Vac -</b> 128, <b>50/60Hz)</b>
220V @ 0.27 Amp	(207 Vac - 253 Vac, 50/60Hz)
Current rating	1A
Fuses	ac/dc 2 A
Power consumption	
with no ATA installed	120 watts (add 8 watts per ATA installed

#### **FLASHTIMING**

The default is .7 sec. This is programmable from .1~1.5 sec

#### PAUSETIMING

Pause time is programmable as 1.5, 2.0, 3.5 or 5.0 sec. Default pause time is 2.0 sec.

#### DTMF TONE DURATION

DTMF tone duration are programmable. The tones can be programmed as 70,120, or 150 msec. Default is 120 msec.

#### CADANCES

The **Cadances** are programmed into an EPROM (27128) Dial Tone **425** Hz Continuous

Special Dial Tone	425 Hz
Ring Tone	<b>425</b> Hz
Busy Tone	<b>425</b> Hz
Fast Busy Tone	<b>425</b> Hz
Number Available	950 Hz
Transfer Dial Tone	1400 Hz

Continuous 320ms on 1 Oms off 1 **000ms** on 4000ms off 500ms on 50ms off 200ms on 200ms off 330ms on 30ms off 330ms on 30ms off

#### **MUSIC SOURCE**

An Internal melody source is present. An external music source can be plugged into the external music phono jack.

#### **HEAT DISIPATION**

380 BTUS Maximum

#### **INSTALLATION OF THE POWER**

Plug the power cord into the AC INPUT.

Check the following items BEFORE turning on the power switch:

1) Is the voltage range in the correct position?

**115V .5AMP**, position is for AC voltage input: 105 VAC - 128 VAC, 50 Hz/60 Hz. 220V **.27AMP**, position is for AC voltage input: 207 VAC - 253 VAC, 50 Hz/60 Hz.

2) Is the "NORMAL/RESET" switch in the NORMAL position?

Now turn on the power switch, and check that the "SYS IND" LED is flashing to indicate the KSU is operating. LED will begin flashing within 15 seconds after turning the system "ON."



#### INSTALLATION OF CENTRAL OFFICE TRUNKS

Plug the C.O. plugs into the outside line jacks **CO1**, CO2, and CO3 are plugged into jack labeled CO1 -**CO3**. **CO4**, **5**, and 6 are plugged into jack labeled **CO4**-**CO6**. CO7 and 8 are plugged into jack labeled **CO7**-**CO8**.



#### INSTALLATION OF POWER FAILURE TRANSFER PHONE

Plug a single line telephone into the jack labeled "PWR FAILURE PHONE".

## **INSTALLATION** OF STATIONS

Plug the **amphenol** connectors into the station port labeled "STA1TO STA24", as below. See page 2.8 for wiring and extension numbers.



#### **INSTALLATION OF SMDR AND MODEM**

Plug the male end with DB9 of the cable into the SMDR port and MODEM port in the KSU. See below.

#### Modem connection for remote access:

A null modem cable inverts pins 2 and 3 for a local connection, connect directly to a computer's Com 1 or Com 2 port, use a standard O-pin to 25-pin cable.



#### **INSTALLATION OF ACCESSORIES**

- 1) External paging: plug the input jack of the amplifier into the earphone jack labeled "EXT PAGE" in the KSU.
- Use of a null modem cable is required for the KSU to modem side. 2) Music-on-hold /background music: The KSU automatically has an internal music-source (chimes) for music on hold and background music. If afternative music is required, simply plug the earphone jack of a radio, tape player, etc. into the jack marked "MUSIC SOURCE". The volume of the music can be changed by the control labeled "MUSIC VOLUME". External paging output must be amplified. Therefore use of a seperate amplifier or amplified speaker is required.



#### INSTALLING THE LOUD BELL

To perform the loud bell function, a loud bell and a DC power supply which can provide +12 VDC and 1 AMP DC current minimum are needed to connect to the KSU. To avoid electromagnetic interferences, the loud bell should be kept at least 20 feet away from the KSU.

The voltage and current rating for the loud bell that can be used are : 100 VAC, 30 VDC, 2 AMP maximum.

#### **BATTERY INSTALLATION**

Install a 24V battery to the KSU, as below, to retain system operation during loss of commercial power.

Note: Two 12V batteries may be substituted maximum amp. and hour.





#### DB9 TO DB25 CABLE

Г

DES-MALE	DB25 - FEMALE	
Pin	PIN	
1 2 3 4 5 6 7 8 9	8 2 20 7 6 4 5 22	DCD (DATA CARRIER DETECT) TD (TRANSMIT DATA) RD (RECEIVE DATA) DSR (DATA SET READY) GND (SIGNAL) DTR (DATA TERMINAL READY) CTS (CLEAR TO SEND) RTS (REQUEST TO SEND) RI (RING INDICATOR)

#### DISPOSITION OF JACK (AMPHENOL) FOR EXTENSIONS

PORT	WIRE COLOR	EXTENSION
1	BLUE & WHITE	10
2	ORANGE & WHITE	11
3	GREEN & WHITE	12
4	BROWN & WHITE	13
5	SLATE & WHITE	14
6	BLUE & RED	15
8	ORANGE & RED	16
9	GREEN & RED	17
	BROWN & RED	18
10	SLATE & RED	19
11	BLUE & BLACK	20
12	ORANGE & BLACK	21
13	GREEN & BLACK	22
14	BROWN & BLACK	23
15	SLATE & BLACK	24
16	BLUE & YELLOW	25
17	ORANGE & YELLOW	2
18	GREEN & YELLOW	27
19	BROWN & YELLOW	28
20	SLATE & YELLOW	29
21	BLUE & VIOLET	30
27	ORANGE & VIOLET	31
22	GREEN & VIOLET	32
20	BROWN & VIOLET	33
27		00



**NOTE:** ATA Extension Numbering. The first extension number of an **ATA** is associated with the port it is connected to Example Port 24 = Extension 33. The second extension number is the first extension number plus 48 Example: **33+48=81** 

Pole 25 Pole 50

Pole 1 Pole 26



There are two methods of programming. One is using the Remote Programming package, which comes on a diskette, and is used with a PC. The other way is programming through a Display or Executive set. This document explains the second method.

Database programming is accessed by entering F# \* Only one person can access database programming at a given time. A password is then entered to gain access to the programming section. Database programming is divided into six sections. These are: Set, Line, Call Handling, Resource, Restriction, and Peripheral. The following shows which features fall under each category:

1. System Type MF or KF

MF OF KF

#### 2. set

Day Class Night Class Routing Class of Service Voice Mail Port Line Assignment Ring Assignment AC Code (Forced) Forced LCR

#### 3. Line

Auto Attendant Hunt Group Answer Dialing Held Abandon

4. Call Handling

Barge-In Barge Alert Exclusive Hold Time Flash Time Remind Time Recall Time Pause Time PBX Code

#### 5. Resource

System Alarm Attendant Service Night Start Night End User Names Line Names System SPD Database Password

#### 6. Restriction

**Toll Restriction** 

#### 7. Peripheral

SMDR Output RMT X Rate SMDR X Rate Night Service Set Group Warning Tone Drop Time-out Set Position Mailbox

Line Group

Private To

When database programming is entered, each of the six categories will appear in turn on the LCD display. Scroll through the categories by pressing the NEXT soft key. To program one of the features in a certain category, press SHOW soft key. Then scroll through the **list of** features in that category, using the soft keys. Follow the directions on the screen, and press the soft keys to program features.

Using the soft keys and directions on the screen, the user is able to program all the database features. This document is mainly for reference use, **as** thedirections are, **for the** most part, self-explanatory from the LCD display.

To begin, enter database programming, as follows:

Press: F# <b>*</b> (to enter database programming)	DB PSWD : BKSP SHOW CHG
Enter six digit password	DB PSWD : BKSP SHOW CHG
Press: SHOW	1. Set BACK NEXT SHOW

NOTE: Default password is 000000

- Tone Time Warning Time Boss/Secretary DISA External CFW Line-to-Line Conference Camp-On
- System Time Set Copy Line Copy User Password Canned Message Account Code Table Hour Mode KSU Revision Default Setting

LCR Table

Loud Bell SLT Hook Flash Voice Mail

NOTE: F = FUNCTION KEY

#### SYSTEM TYPE

The installer assigns the FCC Registration type with this program section. Either KF or MF can be selected. After accessing database programming

Press : Show

Press : CHG to change or Press : Next to Accept.

Select Type BACK NEXT SHOW	
System Type : MF BACK NEXT CHG	

Default: All stations are programmed with class of service for Day and Night = 0.

Press: SHOW	Day Class : 0 Back NEXT CHG
Press : NEXT	Night Class :-0 BACK NEXT CHG
Press: CHG	Night Class :-1 BACK NEXT CHG
Press: CHG and so on.	Night Class : 2 BACK NEXT CHG

## SET CATEGORY

The features in the Set Category refer to those features that are programmable on a per-set basis. The MT-360 Series is very flexible in this way - many of the features are programmable by set. Many of these features can be programmed by the individual user, through feature programming. Those features to be programmed under database programming are as follows:

Day Class Night Class Routing Class of Service Voice Mail Port Line Assignment **Ring Assignment** AC Code (Forced) Forced LCR

Night Service Set Group Warning Tone Drop Timeout Set Position Mailbox

#### After accessing database programming,

	1. set BKSP NEXT SHOW
Press: SHOW	Show Set : BKSP SHOW CHG
Press: 10 if 10 is the set you wish to program.	Show Set : 10 BKSP SHOW CHG
Press: SHOW	Day Class : 0 BACK NEXT CHG

## CLASS Of SERVICE (COS)

This section programs the day and night COS for the selected station. Stations can be programmed to have COS of 0 -7, with 0 being the highest COS. COS is associated with features such as toil restriction, Call barge-in, do not disturb override, etc.

NOTE: F = FUNCTION KEY

## ROUTING CLASS OF SERVICE

The routing COS is used for route selection in least cost routing tables. Routing classes of service are programmed from 0 - 3, to allow for different routing of a given call by different users. Default: All stations have routing COS = 0.

Press : NEXT

Press: CHG

and so on.

Routing BACK	COS:0 NEXT	CHG
Routing BACK	COS : 1 NEXT	CHG

#### **VOICE MAIL PORT** ASSIGNMENT

A station port may be assigned as a voice mail port, in order to use it as the interface to a voice mail system. If a port is programmed as voice mail, calls to any stations forwarded to this port will cause the system to send DTMF to the voice mail system. This DTMF information includes the mailbox number and digits indicating the reason for the forward. Default: All stations, voice mail port = N.

Press : NEXT	V.M. Port : N BACK NEXT CHG
Press : CHG	V.M. Port : Y BACK NEXT CHG

#### FLEXIBLE LINE ASSIGNMENT

This feature programs which lines will be available to a station user to make and receive outside line calls.

A station user will then use a line key, or line group key to access the idle line, or to answer an incoming ringing call.

Default: All lines are accessible	by all stations.	Press : NEXT	AC Code Forced: N
Press : NEXT	Line Assignment		BACK NEAT CHG
	BACK NEXT SHOW	Press : CHG	AC Code Forced: Y
Press : SHOW	Line 1 : Y BACK NEXT CHG		BAGIN HEAT ONG
To Change to No,	DAOK NEXT ONG	FORCED LEAST COS	T ROUTING
Press : CHG		When making an outgoing call wit	h forced LCR programming,
To Continue to Next Line,	BACK NEXT CHO	the digits are compared with the LC economical route.	R tables to choose the most
Press : NEXT		Default: Forced LCR is disabled f	or all stations.
Continue through line 8	BACK NEXT CHG		
Continue in ough time o		Press : NEXT	Forced LCR : N
Press : NEXT	Line 8 : Y		BACK NEXT CHG
	BACK NEXT CHG	Press : CHG	Forced LCR : Y

#### FLEXIBLE RING ASSIGNMENT

This feature programs which lines will ring at each station. *Default:* Only the attendant (station 10) receives outside line ringing.

Press : NEXT	Ring Assignment BACK NEXT SHOW
Press : SHOW	Line 1 : Y
To Change to No	BACK NEXT ONG
Press : CHG	Line 1 : N BACK NEXT CHG
Press : NEXT	Line 2 : Y BACK NEXT CHG
Continue through line 8.	L
Press : NEXT	Line 8 : Y BACK NEXT CHG

## FORCED ACCOUNT CODE

When a station is programmed with forced account code feature enabled, he must enter a code before making an outgoing call. These codes must be programmed into an account code table (See Resource Category of database programming to program the account code table.) The entered account code must exactly match one of the possible 100 codes in the account code table in order to place an outgoing call. Default: Forced account codes disabled for every station.

#### NOTE: F = FUNCTION KEY

#### lines, regardless of ring assignment programming. Default: No station is assigned as night service station.

NIGHT SERVICE STATION

Press : NEXT	Night Service : N BACK NEXT CHG
Press : CHG	Night Service : Y BACK NEXT CHG

When the system is in night service mode, any station pro-

grammed as a night service station will ring for all incoming

BACK NEXT CHG

#### STATION GROUP ASSIGNMENT

There are eight groups to which stations can be assigned. Features such as group call pickup are associated with station group assignments.

Default: All stations belong to set group 1.

Press : NEXT	Set Group:1 BACK NEXT CHG
Press : CHG	Set Group : 2 BACK NEXT CHG
Press : CHG	Set Group : 3 BACK NEXT CHG
Continue through set group 8.	BAOK HEAT ONG

#### WARNING TONE

This is associated with other features, such as drop timeout. If warning tone is enabled, a station will be given a warning tone 10 seconds before the specified warning time has elapsed. *Default:* Warning tone disabled for all stations.

#### STATION POSITION PROGRAMMING

Default station numbers can easily be changed to another vacant station number. Station numbers **10-89** can be used. *Default:* Stations are numbered from 10 to 33 sequentially. If an analog adaptor is connected, station numbers 58 to 81 are used for the second channel of the analog adaptor.

Press : NEXT	Set Position : 10 BKSP SAVE CHG
Press : CHG	Set Position: BKSP SAVE- CHG
Press : New Stn	Set Position: 56 BKSP SAVE CHG If new station number is 56
Press : SAVE Extension 10 is now vacant, the station is now extension 56.	Set Position : 56 BACK NEXT CHG

## MAIL BOX ASSIGNMENT

A mail box number can be assigned to each station, to correspond with a voice mail system, such as **MacroVoice**. Each mail box number must be three digits in length. Default: Each station has the same mail box number and

station number. (010 - 033)

Mail Box : 010 BACK NEXT CHG
Mail Box : BKSP SAVE CHG
Mail Box : 999 BKSP SAVE CHG If new mail box number is 999.
Mail Box : 999 BACK NEXT CHG
Warning Tone : N BACK NEXT CHG
Warning Tone : Y BACK NEXT CHG

#### DROP TIMEOUT

If a station has drop timeout enabled, after a certain programmed period of time, his outgoing line call will be dropped. The drop timeout period is programmed under warning time (in Call Handling category). If a drop timeout period is not programmed, the drop timeout feature will not be enabled. *Default:* Drop timeout disabled on all stations.

NOTE: F = FUNCTION KEY

Press : NEXT	Drop Timeout : N BACK NEXT CHG
Press : CHG	Drop Timeout : Y BACK NEXT CHG

Note: Two sets may not have the same mailbox number.

#### LINE CATEGORY

The second category of database programming, Line Category, refers to features that apply to individual lines. The features that fall under Line Category are:

Auto Attendant Hunt Group Answer Dialing Hold Abandon Line Type

Line Group
Private To

Press: <b>F#</b> (to enter database programming)	DB PSWD : BKSP SHOW CHG
Enter six digit password	DB PSWD : BKSP SHOW CHG
Press: SHOW	1. Set BACK NEXT SHOW
Press : NEXT	2. Line BACK NEXT SHOW
Press : SHOW	Show Line : BKSP SHOW CHG
Press : Ln	Show Line : 1 BKSP SHOW CHG //Line 1 was selected.

## AUTO ATTENDANT

Each line can be designated to be answered by an automated attendant. Two choices are available; Yes or No. *Defaut;* Each line is set to no.

Press : SHOW	AUTO ATTENDANT :N BACK NEXT CHG
Press: CHG	AUTO ATTENDANT :Y BACK NEXT CHG
Note: When a line is set to Auto ments for that line to ring at a sta ments are overridden.	Attendant Yes, any assign- ation in Flexible Ring Assign-

Associated Programming:

Hunt Group Answer Extension Hunt Groups

#### HUNT GROUP ANSWER

When a line is set to auto attendant Yes, then it will ring into a hunt group. Each line can be set to ring into ONE of 8 hunt groups.

Default: Each auto attendant line rings into hunt group 1.

 Press : SHOW
 Hunt Group Ans :

 BACK
 NEXT

 CHG
 Hunt Group Ans: 2

 BACK
 NEXT

 CHG
 Hunt Group Ans: 1

Continue through hunt group 8.

Associated Programming.

AUTO ATTENDANT EXT. HUNT GROUPS

#### DIALING TYPE SELECTION

Each line can be programmed for either tone or pulse dialing. Default: Each line is programmed for tone dialing.

Press : SHOW
Dialing : TONE
BACK NEXT CHG
Press : CHG
Dialing : PULSE
BACK NEXT CHG

#### HOLD ABANDON

If a caller has been put on hold, and hangs up, with hold abandon feature enabled, the system will recognize the disconnect signal, and release the line.

Default: Hold abandon is not enabled for any line.

Press : NEXT	Hold-Abandon : Mini BACK NEXT CHG
Press : CHG	Hold Abandon : Ma BACK NEXT CHG

#### **LINE** TYPE ASSIGNMENT

Each line can be programmed as either a C.O. line, or behind PABX line. Default: All lines are C.O. Lines.

Delault. All lines are C.O. Lines.

#### NOTE: F = FUNCTION KEY

Press	:	NEXT		
Press	:	CHG		

Line Type : CO BACK NEXT CHG Line Type : PBX

BACK NEXT CHG

LINE GROUP ASSIGNMENT

Lines can be assigned to groups, for features such as line pool. Two line groups are available.

Default: All lines belong to line group 1.

Press : NEXT	Line Group : 1 BACK NEXT CHG
Press : CHG	Line Group : 2 BACK NEXT CHG

#### PRIVATE LINE

A line can be programmed as private to a certain station. Then, only that station can access that line for outgoing calls, or answer that ringing line. Private line programming overrides line and ring assignment programming.

Default: No private lines are assigned to any station.

Press : NEXT	Printer to: NUL		
	BACK NEXT CHG		
Press : CHG	Private to :		
To Setup:	BRSP SAVE CHG		
Press : Stn	Private to: 10		
	BKSP SAVE CHG		
Press: SAVE	Private to : 10		
To Cancel:	BACK NEXT CHG		
Press : CHG	Private to :		
	BKSP SAVE CHG		
Press : SAVE	Private to : NULL		
	BACK NEXT CHG		

#### CALL HANDLING CATEGORY

The third category of database programming, Call Handling Category, refers to features that apply to the handling of calls. The features that fall under Call Handling Category are as follows:

Barge-In Barge Alert Exclusive Hold Time Flash Time Remind Time Recall Time Pause Time PBX Code

Tone Time Warning Time Boss/Secretary **DISA** External CFW Line-to-Line Conference Camp-On

Press: F# (to enter database programming	DB PSWD : ) BKSP SHOW CHG
Enter six digit password	DB PSWD : BKSP SHOW CH <b>IG</b>
Press: SHOW	1. Set BACK NEXT SHOW
Press : NEXT	2. Line BACK NEXT CHG
Press : NEXT	3. Call Handling BACK NEXT SHOW
Press : SHOW	Barge in:N BACK NEXT C H G

#### **BARGE-IN**

Press : CHG

When barge-in is program enabled, stations can barge-in to other stations with an equal or lower class of service than their own. Other features to be programmed in conjunction with this feature are class of service (in Station Category), and barge alert (in Call Handling Category).

Default: Barge-in is disallowed.

BACK NEXT CHG
Barge in : Y BACK NEXT CHG

#### BARGE-IN ALERT TONE

When the barge-in alert tone is enabled, the called party will hear a tone when another party barges-in his call. Default: Barge-in alert tone is disabled.

Press:NEXT	Barge Alert : N BACK NEXT CHG		
Press : CHG	Barge Alert : Y BACK NEXT CHG		

#### **EXCLUSIVE HOLD**

Program the amount of time that should expire before a call is released from exclusive hold, and is returned to common hold. Choose between 0 - 8 minutes. If 0 minutes is selected. exclusive hold feature is disabled.

Default: Exclusive hold time is three minutes.

Press : NEXT

Exclusiv	/e H <del>old :</del>	
BACK	NEXT	CHG

```
NOTE: F = FUNCTION KEY
```

Press : CHC	3

Exclusive Hold: 1 BACK NEXT CHG Exclusive Hold: 2 BACK NEXT CHG

and so on, through eight minutes.

#### FLASH

Flash time is programmable to work behind Centrex or PABX. The flash time can be from .1 - 1.5 seconds. Default: Flash time is .7 second.

Press	:	NEXT

Press : CHG

Flash Time:.7 BACK NEXT	CHG
Flash Time : .8 BACK NEXT	CHG

and so on, from .1 through 1.5.

#### HOLD REMINDER

This feature will remind a station user that he has placed a call on hold by recalling holding station after 0, 1, 2, 3, 4, 5, 6, 7, or 8 minutes have elapsed. (If it is set for 0 minutes, recall does not occur.)

Default: The hold reminder time is every 3 minutes

Press : NEXT	Remind Time . 8 BACK NEXT CHG
Press : CHG	Remind Time : 0 BACK NEXT CHG

Press : CHG until the required remind time is shown.

#### RECALL TIME

This feature sets the amount of time before a transferred call recalls the originating station. The recall time can be 30, 60, 120, or 180 seconds.

Default: The recall time is 60 seconds.

Press : NEXT	Recall Time : 60 BACK NEXT CHG
Press : CHG	Recall Time : 120 BACK NEXT CHG

Continue pressing CHG until required recall time is shown.

#### PAUSE TIME

Pause time is programmable as 1.5, **2.0**, **3.5**, or 5.0 seconds. This feature is used primarily when programmed into speed dial numbers to insert a pause to allow time for response from the C.O. or for other applications. *Default* Pause time is 2.0 seconds.

Press : NEXT	Pause Time : 2 BACK NEXT CHG
Press : CHG	Pause Time : 3.5 BACK NEXT CHG

Continue pressing CHG until the required pausetime is shown.

NOTE : Pause Time Affects CPID Send Time.

## PABX **COMPATIBILITY** (ACCESS CODES)

PABX access codes can be assigned as either one digit (from 0 - 9), or two digits (from 00 - 99), to interface with a variety of **PABXs**. After the PABX access code is entered, a fixed pause time of two seconds will be automatically inserted before dialing out the subsequent digits, to ensure that real C.O. dial tone has been achieved before sending the digits.

Default: PABX access code is "9".

Press : NEXT	PBX Code:9 BACK NEXT CHG
Press : CHG	PBX Code : BKSP SAVE CHG
Press : 90	PBX Code : 90 BKSP SAVE CHG
Press : SAVE	PBX Code: 90 BACK NEXT CHG

## TONE DURATION

DTMF tone duration from the dial pad are programmable to be compatible with varying connected switching systems. The tones can be programmed as 70,120, or 150 ms in length. *Default:* Tone duration is 120 ms.

Press : NEXT	Tone Time : 120 BACK NEXT CHG
Press : CHG	Tone Time : 150 BACK NEXT CHG

Continue pressing CHG until the required tone duration time is shown.

#### WARNING TONE TIME

This feature is associated with the drop timeout feature. It provides a tone to notify the user that the line is about to be dropped. This is programmable for 1,2,3...8 minutes after the call begins.

*Default*: The warning tone is activated after three minutes have elapsed.

Press : NEXT	Warning Time : M BACK NEXT CHG
Press : CHG	Warning Time : 4 BACK NEXT CHG

Continue pressing CHG until the required time is shown.

## BOSS / SECRETARY PROGRAMING

A boss/secretary relationship can be set up between stations. It is related to such features as DND override, barge-in, etc. One secretary can serve up to two bosses.

Default: No boss / secretary relationships are programmed.

Press: NEXT	Boss/Secretary BACK NEXT SHOW
Press: SHOW	Secretary: BKSP SHOW CHG
Press: Stn of Secretary	Secretary: 10 BKSP SHOW CHG If secretary is station 10.
Press: SHOW	Boss 1: NULL BACK NEXT CHG
Press: CHG	Boss 1: BKSP SAVE CHG
Press: Stn of Boss	Boss 1: 16 <b>MSP SAVE CHO</b> If boss is station 16.
Press: SAVE	Boss 1: 16 BACK NEXT CHG
Press: NEXT	Boss 2: NULL BACK NEXT CHG

Continue as above until all bosses and secretaries are programmed.

#### DISA (DIRECT INWARD SYSTEM ACCESS)

One line can be programmed as a DISA line. Several associated items have to be programmed with DISA, as follows: Active line (1,2,3,...8) Service (Never, Day, Night, Always)

Talk time on **DISA** line? (1,2,3,5,10,15 minutes) **DISA** password (9 digits. **The** last **digit is** the class of service for users with that password.)

DISA rings (how many rings before the DISA line is answered?) (1,2,3...99)

If a DISA user accesses another outside line, that line will be toll restricted based on the user's DISA password, and the Day/ Night service mode. Also, if a line to line conference is established using the DISA function, the conversation time will be limited to the **DISA** talk time limit.

Default: No line is programmed as a DISA line. The default ring count before answering is 1 time.

Press : NEXT	DISA BACK NEXT SHOW	
Press : CHG	Active Line : 1	
Continue pressing CHG until required line is shown (None, 1,2,3	3,8)	
Press : NEXT	SECE: NEVE	
Press : CHG	Service: DAY BACK NEXT CHG	
Continue pressing CHG until the required service is shown (Never,	Day, Night, Always)	
Press:NEXT	Talk Time : 5 BACK NEXT CHG	
Press : CHG	Talk Time : 10 BACK NEXT HG	
Continue pressing CHG until the required talk time is shown. (1,2,3,5,10,or 15 minutes).		
Press : NEXT	Access Code BACK NEXT INHOW	
Press : SHOW	01. EMPTY ─ <del>BACK</del> ─ NE <del>XT ■</del> HG	
Press : CHG	01. BKSP SAVE CHG	
Press : Enter 9 digit password	01. 123456780 <del>-BKSP</del> SA <del>VE</del> ■HG	
The last digit of the personal is the		

Class of Service associated with that password.

Press : SAVE	01. 123456780 BACK NEXT CHG
Press : NEXT	<i>02.</i> EMPTY
Continue until all passwords are e	BACK NEXT CHG ntered. (Up to 24)
Press : NEXT	DISA Rings: 01 BACK NEXT CHG
Press : CHG	DISA Rings : BKSP SAVE CHG
Press : Number of <b>DISA</b> rings	DISA Bings : 10
DISA rings can be from 1 - 99.	DIGI SAVE CHG
Press : SAVE	DISA Rings : 10

## EXTERNAL CALL FORWARDING (ECF)

A call can be forwarded to an external location. Any call coming in on the line that is forwarded externally is forwarded out on a designated line to the number located in speed dial #99.

BACK NEXT CHG

- The incoming, outgoing ECF lines must be programmed as such, and speed dial #99 must be programmed.

-The service mode in which the ECF should be activated must also be programmed as Never, Day, Night, or Always.

- There is a limit to the conversation time on the ECF call. It is programmable as 1,2,3,5,10, or 15 minutes.

Default: No lines are assigned as incoming or outgoing ECF lines.

Press : NEXT	External CFW BACK NEXT SHOW
Press : SHOW	Incoming : NONE BACK NEXT CHG
Press : CHG	Incoming : 1 BACK NEXT CHG
Continue pressing CHG until the required incoming line <b>#</b> appears. (	(None, <b>1,2,3,8</b> )
Press:NEXT	Outgoing : NONE BACK NEXT CHG
Press : CHG	Outgoing : 1 BACK NEXT CHG
Continue pressing CHG until the appears. (None, <b>1,2,3,</b> 8)	required outgoing line #
Press : NEXT	Service : NEVER BACK NEXT CHG
Press : CHG	Service : Day BACK NEXT CHG
Continue pressing CHG until the r	required service mode ap-

pears. (Never, Day, Night, Always)

F

F

Press : NEXT	Talk Time : 5 BACK NEXT CHG
Press : CHG	Talk Time : 10
Continue pressing CHG until the	BACK NEXT CHG

continue pressing CHG until the required conversation time appears. (1,2,3,5,10, or 15 minutes.)

## LINE-TO-LINE CONFERENCE

The talk time for line-to-line (sometimes called trunk-to-trunk) conferences is programmable as 1,2,3,5,10, or 15 minutes. *Default:* Talk time for line-to-line conferences is five minutes.

SAUK	NEXT	SHOW
Talk Tim BACK	e:5 NEXT	CHG
Talk Tim BACK	e:10 NEXT	CHG
3	ACK alk Tim ACK alk Tim ACK	ACK NEXT alk Time : 5 ACK NEXT alk Time : 10 ACK NEXT

Continue pressing CHG until the required Conversation time appears. (1,2,3,5,10, or 15 minutes.)

#### **CAMP-ON TIME**

The camp-on time is programmable from 0, 10, **20**,...**50** seconds. If 0 seconds is programmed, it means there will be no camp-on tone. Each programmable interval will have a **camp**-on tone, and a camp-on message will appear on LCD display. *Default:* The default camp-on time is 10 seconds.

Press: NEXT	Camp On: 10 BACK NEXT CHG
Press : CHG	Camp On : 20 BACK NEXTHG
Continue pressing CHG until t	he required camp-on time ap-

Continue pressing CHG until the required camp-on time appears. (00, 10, 20, 30, 40, or 50 seconds.)

#### **RESOURCE CATEGORY**

The fourth category of database programming, Resource Category, refers to features that apply to system resources. The features that fall under Resource Category are:

System Time
Set Copy
Line Copy
User Password
Canned Message
Account Code Table
Hour Mode
KSU Revision
Default Setting

NOTE: F = FUNCTION KEY

Press: <b>F#</b>	
(to enter database programming)	DB PSWD : BKSP SHOW CHG
Enter six digit password	DB PSWD : BKSP SHOW CHG
Press: SHOW	1. Set BACK NEXT SHOW
Press : NEXT	2. Line BACK NEXT SHOW
Press : NEXT	3. Call Handling BACK NEXT SHOW
Press : NEXT	4. Resource BACK NEXT SHOW
Press : SHOW	System Alarm BACK NEXT SHOW

#### SYSTEM ALARM CLOCK

Eight system alarm clocks can be set to notify all stations at programmed times. When the alarm is invoked, all idle stations hear background music from the speaker for one minute. Alarms cannot be set within two minutes of each other, or the later one will be ignored.

Default: No alarms are programmed.

System Alarm BACK NEXT SHOW
Alarm 1 : NULL
BACK NEXT CHG
Alarm 1 : BKSP SAVE CHG
Alarm 1 : 08:00 BKSP SAVE CHG
Alarm 1 : <b>08:00</b> BACK NEXT CHG
Alarm 2 : NULL BACK NEXT CHG
Alarm 3 : 11:58 BACK NEXT CHG
ALARM3: BACK <b>NEXT</b> CHG
Alarm 3 : NULL BACK NEXT CHG

#### ATTENDANT

One station must be programmed as the attendant. The attendant is used for such features as recall, forced incoming ICM call forward, etc.

Default Station 10 is the attendant.

Press : NEXT	Attendant : 10 BACK NEXT CHG
Press : CHG	Attendant : BKSP SAVE C H G
Press : New attendant station	Attendant : 11 Bitton SAVE SAVE
Press : SAVE	Attendant : 11 BACK NEXT CHG

#### SYSTEM SERVICE MODE

Three system service modes may be selected. These are "Day, Night, and Time". If the "Day" mode is selected, system will always work in day mode. If "Night" mode is selected, the system will always work in night mode. If "Time" mode is selected, the system will work in either day or night mode, depending on thetimeof day. (See night service programming.) *Default:* System is in Day service mode.

Press:NEXT	Service : DAY BACK NEXT CHG
Press : CHG	Service : NIGHT BACK NEXT CHG
Press : CHG	Service : TIME BACK NEXT CHG

#### NIGHT SERVICE

When system mode is programmed as "Time", the service mode will automatically be changed from "Day" to "Night" depending on the programmed night start and night end times. *Default:* System is in "Day" mode, and night start/end times are

Press : NEXT	Night Start: NULL BACK NEXT CHG
Press : CHG	Night Start: BKSP SAVE CHG
Press : Time to begin night mode, enter in 24 hour clock format	Night Start: 17:20 BKSP SAVE CHG
Press : SAVE	Night Start: 17:20 BACK NEXT CHG

Press : NEXT	Night End: NULL BACK NEXT CHG
Press : CHG	Night End: BKSP SAVE C H G
Press : Time to end night mode, and begin day mode	Night End: 08:00 BKSP SAVE CHG To begin day mode at 8:00 am
Press : SAVE	Night End: 08:00 BACK NEXT CHG

## USER NAME PROGRAMMING

Names of up to seven characters may be assigned to stations. - The dial pad is used to enter characters. The letters are printed on the keys. Pressing a key once chooses the first letter on the key, pressing again chooses the second, and again the third. For example, pressing the six key twice chooses the letter N.

• The letters are uppercase. **If** you want to switch to lowercase dial . To proceed to the next letter, dial **#**. To go back a space, press BKSP soft key. Also dial #to insert a space.

- At the end of the name, press **#** to proceed to the next letter before pressing SAVE.

Default: No station has a name assigned.

Press : NEXT	User Names BACK NEXT SHOW
Press : SHOW	Show Set : BKSP SHOW CHG
Press : Sn	Show Set : 10 BKSP SHOW CHG
Press : SHOW	SET 10 : EMPTY BACK NEXT CHG
Press : CHG	SET 10: BKSP SAVE СНG
Press : Keypad to enter letters in user's name.	SET 10 : JOHN_ BKSP SAVE CHG If 5#666#44#66# was entered.
Press : SAVE	SET 10 : JOHN BACK NEXT CHG

#### LINE NAME PROGRAMMING

Lines can be assigned names, which are viewed on the LCD display when that line is selected or ringing. The name may have up to seven characters.

- To use dial pad to enter letters for the name, see user name programming.

Default: No line is given a name.

ress : NEXT	Line Names
	BACK NEXT SHOW

Р

Press : SHOW	Show Line : BKSP <b>SHOW</b> CHG
Broos : I n number	Show Lino : 1
Fless . Lit humber	BKSP SHOW CHG
	BACK NEXT CHG
Press · CHG	line 1 ·
	BKSP SAVE CHG
Press · Keypad to enter	Line 1 · ABC CO
letters in line name	BKSP SAVE CHG
	lf 2#22#222##222#666# was
	entered
Press : SAVE	Line 1 : ABC CO
	BACK NEXT CHG

#### SYSTEM SPEED DIALING

System speed dial numbers can be programmed to bin numbers 20 - 99. (00 - 19 are reserved for personal speed dial numbers).

- Digits saved under speed dial locations may be digits 0 - 9, #, Flash (F3), Pause, (F70), and speed dial chaining code (F1n, where nn = speed dial bin number to be chained):

- Speed dial numbers can be chained together by including the speed dial chaining code in the speed dial digits. There is only one "layer" of speed dial chaining, meaning you can chain from bin 01 to a number in bin 02, but if bin 02 has a chaining digit to bin 03, it would not continue to chain to bin 03. If you wanted to include the number in bin 03, you would have to put the chaining digit for bin 03 into bin 01. For example:

гu	exai
Rin	01.

Bin 01:	3456@02@03 (where @ shows the speed dial chaining digit F1)	
Bin 02:	1234@04	
Bin 03:	56789	
Bin 04:	7777	
The number 245612245	6790 would be dialed. Note that the	

The number 3456123456789 would be dialed. Note that the chain to 04 from bin 02 was ignored.

- Flash and Pause are counted as one digit, while speed dial chaining code is counted as three digits.

. Speed dial numbers can be up to 16 digits.

Default: No speed dial numbers have been programmed.

Press : NEXT	System SPD BACK NEXT SHOW j
Press : SHOW	Show SPD : BKSP SHOW CHG
Press : Bin number	Show SPD : 20 BKSP SHOW CHG If 20 is the speed dial bin required

Press : SHOW	EMPTY BACK NEXT CHG
Press : CHG	<b>BKSP</b> SAVE CHG
Enter phone number To save	9975500_ BKSP SAVE CHG If 997-5500 is to be saved
Press : SAVE	997-5500 ВАСК NEXT СНG

numper Continue as above for speed dial locations 20 - 99.

## CHANGEABLE SYSTEM PASSWORD

The system password can be changed to any six digit number. Default: The password is 000000.

Press : NEXT	DB PSWD : 000000 BACK NEXT CHG
Press : CHG	DB PSWD : BKSP <b>SAVE</b> CHG
Enter new password	DB PSWD : 123456 BKSP SAVE CHG If 123456 is new pass word
Press : SAVE	DB PSWD : 123456 BACK NEXT CHG

The database password is now 123456.

#### SYSTEM T/ME

The year, month, date, day of week, hour, and minute can be programmed. This appears on the LCD of Display and Executive sets.

Default: The initial system time is 12:00 am, TUE, JAN 1, 1991.

Press : NEXT	System Time BACK NEXT SHOW
Press : SHOW	Year: 91 BACK NEXT CHG
Press : CHG	Year : BKSP SAVE CHG
Enter last two digits of current year.	Year : 92 BKSP SAVE HG
Press : SAVE	Year: 92 BACK NEXT CHG

and the second			
Press : NEXT	Month:JAN BACK NEXT CHG	Press : Sn to be copied from	Copy to : 12 BK
Press : CHG	Month : FEB	Press : SAVE	Set Copy
Continue to press CHG until the re	quired month appears.		DAUK NEAT SHUW
Press : NEXT	Day: 01 BACK NEXT CHG	LINE COPY	
The process to change the date is the same as to change the year.		Line programming can be copied program one line with all required	d using line copy. Simply d features, then copy the
Press : NEXT	Weekday : MON BACK NEXT CHG	programming to another line or line Features that are copied through lir 1. Dialing type	s. ne copy are:
Press : CHG	Weekday : TUE BACK NEXT CHG	2. Hold abandon (yes/no) 3. Line type	
Continue to press CHG until the required day of the week appears.	BACK HEAT ONG	4 Loud bell (enable/disable) 5. Line group number 6. Private to	
Press : NEXT	Hour: 00 BACK NEXT CHG	Default None.	
The process to change the hour is the same as to change the year.	DAVIA NEAT OFICE	Press : NEXT	Line Copy BACK NEXT SHOW
Press : NEXT	Minute: 00 BACK NEXT CHG	Press : SHOW	Copy from : BKSP SAVE CHG
The process to change the minute is the same as to change the year	[. [.	Press : Ln to copy from	Copy from : 1 BKSP SAVE CHG
SET COPY		Press : SAVE	Copy to : BKSP SAVE CHG
Programming can be copied from program one station with required	one set to another. Simply features, then use set copy	Press : Ln to receive copy	Copy to : 2 BKSP SAVE CHG
The features that are copied with s	set copy are:	Press : SAVE	Line Copy

- COS day COS night 1.
- Line assignment
- **2**. 3. 4. 5 6. 7. Ring assignment Night set (Yes/No) Set group number
- Hunt group number
- Warning tone (enable/disable) a.
- 9. Drop time-out
- 10. Mail box
- 11. Feature map

12. DSS/SPD key map Default None.

Press : NEXT	Set Copy BACK NEXT SHOW
Press : SHOW	Copy from : BKSP SAVE CHG
Press : Sn to be copied	Copy from : 10 BKSP SAVE CHG
Press : SAVE	copy to : BKSP SAVE CHG

## **USER PASSWORD**

Although a station user's password is set through station lock/ unlock feature, not in database programming, the password can be seen in database programming. This is useful if a user has forgotten his password.

BACK NEXT SHOW

Default: Each station's password is "0000".

Press : NEXT	User Password BACK NEXT SHOW
Press : SHOW	Show Set : BKSP SHOW CHG
Press : Sn	Show Set : 10 BKSP SHOW CHG
Press : SHOW	Set PSWD : 0000 BACK NEXT

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#### PROGRAMMABLE CANNED MESSAGE

There are two types of messages to be programmed in the system. The first canned messages are sent when calling a busy or no answer station to provide them information, or request them to return the call. The second type, advisory messages, are left on a station user's phone to provide information to calling parties.

Both types of messages have six system programmable messages, and one station user programmable message. There is a maximum of 16 characters per message. See user name programming for details on using the dial keypad to enter messages.

Default: The default canned messages are:

Have a Good Dav	Call Operator
Call Home	Call Back
Friend Visiting	Urgent
Empty (station user pro	prammable)
The default advisory mess	ages are

a default adhieory moodagee are	
At Lunch	Be Back Soon
Gone Home	In a Meeting
Out of Office	On Vacation
Empty (station user programmable)	

Press : NEXT	Canned Message
	BACK NEXT SHOW
Press : SHOW	Sending Message

BACK NEXT SHOW "Sending Message" are the canned messages to send when

calling a busy or no answer station.

Press : SHOW	Have a Good Day		
	BACK	NEXT	CHG
Press · CHG	۲		
	BKSP	SAVE	CHG
Enter digits to spell out message	CALL N	IE	
	BKSP	SAVE	CHG
	lf 222#2#	555#555##	16#33# was
	entered		
Press : SAVE	CALL N	1E	
	BACK	NEXT	CHG
Continue pressing NEXT to scroll th	rough all	seven m	essages.
Press : NEXT	Advisor	y Messa	qe
	BACK	NEXT	SHOW
Advisory messages are the messa	ges that a	re left on	a station
efficient call handling.	to calling	parties	for more
Press : SHOW	At Lunc	h	
	BACK	NEXT	CHG
Press : CHG			
	BKSP	SAVE	CHG

Enter digits to spell out message



Press : SAVE

Continue pressing NEXT to scroll through all advisory messages.

## ACCOUNT CODE TABLE

This table holds all account codes to be matched against entered code when forced account codes are enabled on a station.

- The account codes can be from four to eight digits in length. Default: Account code table is empty.

Account codes are four digits in length.

Press:NEXT	AC_Code Table BACK NEXT SHOW
Press : SHOW	Length : 4 BACK NEXT CHG
Press : CHG	Length: 5 BACK NEXT CHG
Continue to press CHG until required account code digit length	appears. (4 - 8)
Press : NEXT	001. EMPTY

Press : NEXT	001. EMPTY BACK NEXT CHG
Press : CHG	001 BKSP SAVE CHG
Enter Account Code	001. 12345 BKSP SAVE CHG
	If 12345 is an account code to be entered in t <b>able</b>
Press : SAVE	001. 12345
Continue for account codes 001 - 1	00.

## HOUR MODE SELECTION

The hour modeforthe time (as shown on the LCD displays) can be in 12 or 24 hour mode, as required. Default: The system time is displayed in 12 hour mode.

	Hour Mode : 12 BACK NEXT CHG
Press : CHG	Hour Mode : 24 BACK NEXT CHG

NOTE: F = FUNCTION KEY

## KSU SOFTWARE VERSION DISPLAY

This feature shows the software revision number currently installed in system. Default: None.

Press : NEXT

Press : SHOW

KSU Re	vision	
BACK	NEXT	SHOW
KSU : I	K06UM0	.F1
BACK	NEXT	

#### DEFAULT SETTING

When this function is activated, all settings are returned to default status, and any operation in progress is terminated. Default: None.

Press : NEXT	Default Setting BACK- NEXT MOW	co De
Press : SHOW	CHK PSWD : BKSP SHOW CHG	Ge
Enter six-digit database password	CHK PSWD : 000000 BKSP SHOW CHG If password is 000000	00
Press : SHOW	Are You Sure? NO YES	00
Press : YES (to activate default settings.) (system is returned to	Default Setting	00
Or, Press : NO	5. Restriction BACK NEXT SHOW	00
Nothing happens.		

## **RESTRICTION**CATEGORY

The Restriction Category refers to features that are used to restrict and/or control calling.

The features that fall under the Restriction Category are:

Toll restriction and least cost routing

Press: F# (to enter database programming)	DB PSWD : BKSP
Enter Password	DB PSWD : 000000 BKSP SHOW CHG
Press: SHOW	1. Set BACK NEXT SHOW

Press : NEXT	2. Line BACK NEXT CHG
Press : NEXT	3. C <b>HHandling</b> BACK NEXT SHOW
Press : NEXT	4. Resource BACK NEXT SHOW
Press : Show	5. Restriction BACK NEXT SHOW

#### TOLL RESTRICTION

Outside calls with **a** sequence of digits which are within the tables will be denied or allowed.

NOTE: The digit ' \* ' is used as a "wildcard" digit in the toll ontrol tables.

efault: All toll restriction tables are empty.

#### eneral description and default value :

	From (0-9,x)	To (0-9,x)	Day Class 0 1 2 3 4 5 6 7	Night Class 0 1 2 3 4 5 6 7
001	0	0	YNNNNNN	ΥΝΝΝΝΝ
002	EMPTY	EMPTY	NNNNNN	NNNNNN
003	EMPTY	EMPTY	NNNNNN	ΝΝΝΝΝΝ
004	EMPTY	EMPTY	ΝΝΝΝΝΝ	ΝΝΝΝΝΝ
005	EMPTY	EMPTY	NNNNNN	ΝΝΝΝΝΝ
:				
•				
100	EMPT	<b>EMPT</b>	Y NNNNNN	ΝΝΝΝΝΝ

From /To : Maximum 10 digits can be programmed ; valid digits are O-9 and x (wild card). Day /Night Class : These two fields relate to the station's "Class of Service " and the system "Service Mode".

If the dialed digits are assigned in the range between "From" and "To", the system will check the "Day Class" or "Night Class"and station "Class of Class Of Service"> If the corresponding field is programmed as 'N', then the call is restricted, otherwise the system will continue checking the following entries of the tables until all the tables are checked. NOTE : F7 # generates "x" generates "x" during the keyphoneprogramming.

Press : SHOW	Toll Restriction Back Next Show
Press : 001-I 00 to select table. Press : SHOW	Table Entry : BKSP SHOW CHG
Press :CHG	From : Empty Back Next Show

Enter Digit 0 ~ 9 or x Press save Note :X = don't care. Enter Via Function	From : BKSP : 7# Up to	SAVE CH	G re allowed
Press : NEXT	FROM BACK	: 2 NEXT	CHG
Press : CHG	CHG	mpty NEXT	
Enter Digit 0 ~ 9 or x Press save Note X = don'tcare. Enter Via Function;	To : 7#. Up to	BkspSa 10 digits ai	ave CHG re allowed
Press : NEXT	TO :6 BACK	NEXT	CHG
Press : Show	Day C BACK	OS NEXT	Show
Press : CHG to Change or next to accept.	Class & Back	ð∶N Next	CHG
Press : SHOW	NIGHT	COS	SHOW
Press : CHG to Change or next to accept.		ØNEXT	CHG

#### LEASTCOST**ROUTING**

Least cost routing allows the system to choose the most economical route when making a call. Routes are defined in the route table, and are accessed by route lists.

- Each route list contains the first choice route number and up to three alternative route numbers,

- Each user is assigned to one of four routing classes of service. Selective routing by class of service determines which routes the user can access and at what times during the day, based on his routing class of service. Default: All LCR tables are empty.

 

 Default: All LCR tables are empty.

 Press : NEXT
 LCR Table BACK NEXT SHOW

 Press : SHOW
 Dgt Comparison BACK NEXT SHOW

 Press : SHOW
 Show Table : BKSP SHOW CHG

 Enter a table number from 001 to 200.
 Show Table : 001 BKSP SHOW CHG

Press : SHOW	Time List : NULL BACK NEXT CHG
Press : CHG	Time List :
Select time list 01 - 45.	
Press : 25	Time List : 25 BKSP SAVE CHG
Press : SAVE	Time List : 25 BACK NEXT CHG
Press : NEXT	EMPTY BACK NEXT CHG
Press : CHG	BKSF CHG
Press : 1407	1407 BKSP SAVE CHG
Press : SAVE	1407 BACK NEXT CHG
Continue pressing NEXT a	nd CHG to build time lists.
Day Time Table Programm	ing:
Press : NEXT	Day Time Table BACK NEXT SHOW
Press : SHOW	Show Table : BKSP SHOW CHG
Enter table number to show	v, from 01 - 45.
Press : 01	Show Table : 01 BKSP SHOW CHG
Press : SHOW	Show Period : BKSP SHOW CHG
Enter time period from 1 - 6	
Press: 1	Show Period:1 BKSP SHOW CHG
Press : SHOW	Start Time : NULL BACK NEXT CHG
Press : CHG	Start Time : BKSP SAVE CHG
Press : 0825	Start Time : 08:25 BKSP SAVE CHG
Press : SAVE	Start Time : 08:25 BACK NEXT CHG
Press : NEXT	RCS 0 Rate : NUL BACK NEXT CHG

Enter the routing class of service 1	rate from 001 - 200.		
Press : CHG	RCS 1 Rate : BKSP_SAVECHG	Press : CHG	Deleted Digit : BKSP SAVE-CHG
Press : 054	RCS 1 Rate : 054 BKSP SAVE CHG	Press : 01	Deleted Digit : 01 BKSP SAVE CHG
Press : SAVE		Press : SAVE	Deleted Digit : 01 BACK NEXT CHG
Route List Table Programming :	RCS 1 Rate : 054 BACK NEXT CHG	Press : NEXT	Inserted Digit BACK NEXT SHOW
Continue for routing classes of ser	vice 0 - 3.		
Press : NEXT	Route List Table BACK NEXT SHOW	Press : SHOW	EMPTY BACK NEXT CHG
Press : SHOW	Show Table : BKSP SHOW CHG	Press : CHG	BKSP SAVE CHG
Select route list table to show, from	n 001 <b>-</b> 200.		
Press : 001	Show Table : 001 BKSP SHOW CHG	Press : 123456789	123456789_ BKSP SAVE CHG
Press : SHOW	1st Choice BACK NEXT SHOW	Press : SAVE	123456789 BACK NEXT CHG
Press : SHOW	Modify Table : NUL BACK NEXT CHG	PERIPHERAL CATEGOR	RY
Press : CHG	Modify Table : BKSP SAVE CHG	The sixth and final category, Peri those features associated with per lows:	pheral Category, refers to ripheral equipment, as fol-
Press : 001	Modify Table : 001 BKSP SAVE CHG	SMDR Output RMT X Rate SMDR X Rate	Loud Bell SLT Hook Flash Voice Mail
Press : SAVE	Line 1 : N BACK NEXT CHG	Press: <b>F#*</b>	
Press : CHG	Line 1 : Y BACK NEXT CHG	(to enter database programming)	DB PSWD : BKSP SHOW CHG
Continue pressing NEXT and CHG	For each of Lines 1 - 8.	Enter Password	DB PSWD : 00000000
Press : NEXT			BKSP SHOW CHG
Digit Modification Table Programm	ning:	Press: SHOW	1. Set BACK NEXT SHOW
Repeat above for choices 1 - 4.	BACK NEXT SHOW	Press : NEXT	2.Line BACK NEXT CHG
Press : NEXT	Dgt Modification BACK NEXT SHOW	Press : NEXT	3. Call Handling BACK NEXT SHOW
Press : SHOW Enter table # from 001-I 00	Show Table : BKSP SHOW CHG	Press : NEXT	4. Resource BACK NEXT SHOW
Press : 001	Show Table : 001 BKSP SHOW CHG	Press : NEXT	5. Restriction BACK NEXT SHOW
Press : SHOW	Deleted Digit : 00 BACK NEXT CHG	Press : NEXT	6. Peripheral BACK NEXT SHOW
Enter the deleted digit number, fro	m 00 - 12.		

### **SMDR** OUTPUT

This determines the information to be sent to the SMDR report. Default: All types of SMDR call records will appear on the printout.

Press : SHOW	SMDR Output BACK NEXT SHOW
Press : SHOW	Incoming Call : Y BACK NEXT CHG
<i>To Change to No,</i> Press : CHG	Incoming Call . N BACK NEXT CHG
Press : NEXT	Account Code · Y BACK NEXT CHG
Press : CHG	Account Code . N BACK NEXT CHG

#### DATA RATE SELECTION

For RS-232C Data Port.

Two RS-232Cdata ports are provided on the KSU. One is used as a DCE terminal to interface to a serial printer or data terminal for output of SMDR records. The other data port is to be connected to a MODEM for remote programming, or to a PC for on-site programming.

- The data rate is selectable as 110, 300, 600, 1200, 2400, 4800, 9600, or 19200 bits per second.

Default: The default data rate is 9600 bps.

Press:NEXT	RMT X_Rate : 9600 BACK NEXT CHG
Press : CHG	RMT X_Rate : 19200
Continue to press CHG until the re	equired data rate is shown.
Press : NEXT	SMDR_Rate: 9600 BACK NEXT CHG
Press : CHG	SMDRX_Rate : 19200 BACK_NEXT_CHG

Continue to press CHG until the required data rate is shown.

## LOUD BELL INTERFACE

One loud bell interface is provided, which can be assigned to ring for one or more lines. If the loud bell is assigned to a certain line, the loud bell will sound when that line is signaling, and be turned off when the line is answered.

Default: The loud bell is not assigned to any line.

Press	÷	NEXT	

Loud Ba	-	
	211	
DACK	NEVT	SHUM
DACK		SHOW

Press : SHOW	Service : Disable BACK NEXT CHG
Press : CHG	Service : DAY BACK NEXT CHG
Continue to press CHG until the required Service mode is shown. (D	isable, Day, Night, Always).
Press : NEXT	Line 1 : N BACK NEXT CHG
Press : NEXT	Line 2 : N BACK NEXT CHG
Press : CHG	Line 2 : Y BACK NEXT CHG

Continue to press NEXT and CHG for each line (I-6).

#### **SLT** HOOK FLASH **TIME** PROGRAMMING

The hook flash time for SLT operation is programmable to start at 60, 100, 200, 300,...1400 ms, and to end at 100, 200, 300,...1500 ms.Thestarttimemustalwaysbelessthantheend time.

Default: The hook flash time is from 300 to 900 ms.

Press : NEXT	SLT Hook Flash BACK NEXT SHOW
Press : SHOW	Start Time : 60 BACK NEXT CHG
Press : CHG	Start Time : 100 BACK NEXT CHG
Continue to press CHG until the red hook flash start time is shown. (60,	quired 100, 200, 300,1400 ms.)
Press : NEXT	End Time : 1500 BACK NEXT CHG
Press : CHG	End Time : 200
The end time of 100 has been	BAOK NEXT ONO

skipped because the start time has been changed to 100 ms.

Press : CHG	End Time : 300
	BACK NEXT CHG
Continue to press CHG until the rec	quired

end time for hook flash is shown. (100, 200, 300,...1500 ms.)

#### **VOICE MAIL**

Stations can be assigned to be forwarded to their voice mail ports upon a busy or no answer condition. They can be programmed such that the system will see the **CPID** digits, and know whether it was busy or no answer, internal or external, in order to give the appropriate personal greeting.

- It is then programmed to either tell the reason (N,Y), and the originator (external, or a certain station).

Press : NEXT	Voice Mail BACK NEXT SHOW
Press : SHOW	Reason for CFW BACK NEXT SHOW
Press : SHOW	Busy EXT : EMPTY BACK NEXT CHG
Press : CHG	Busy EXT : BKSP SAVE CHG
Enter <b>CPID</b> digits, maximum of five digits.	Busy EXT: 123_ BKSP SAVE CHG If 123 are he CPID digits to be sent with busy station
Press : SAVE	Busy EXT : 123 BACK NEXT CHG
Press : NEXT	No_Ans EXT : EMPTY
Make changes as above.	BACK NEXT ONG
Press : NEXT	Always EXT : EMPTY BACK NEXT CHG
Make changes as above.	
Press : NEXT	Busy INT : EMPTY BACK NEXT CHG
Make changes as above.	
Press : NEXT	No-Ans INT : EMPTY BACK NEXT CHG
Make changes as above.	
Press : NEXT	Always INT : EMPTY BACK NEXT CHG
Make changes as above.	
Press : NEXT	CFW Access Condition
This feature sends the CPID digits for reason the call is forwarde	ed (as programmed above).
Press : SHOW	Reason : N BACK NEXT CHG
Press : CHG	Reason : Y BACK NEXT CHG

Press: NEXT Originator: N BACK NEXT CHG This feature sends the **CPID** digits for originator of the call.

Press : CHG

Originator : Y BACK NEXT CHG

NOTE: F = FUNCTION KEY

## **EXTENSION HUNT GROUPS**

Eight Hunt Groups are available. **Up to** 24stations can be in one hunt group. A station can be in only **1** hunt group.

Press : NEXT	Extension Hunt Group BACK NEXT SHOW
Press : SHOW	Hunt G r o <u>up:</u> BKSP SHOW CHG
Press : I-8	Hunt Group: 1 BKSP SHOW CHG
Press: SHOW	Group Member BACK NEXT SHOW
Press : SHOW	Member 01: NULL BACK NEXT CHG
Press: CHG	Member 01: BKSP SAVE CHG
Press: <b>10</b> (If 10 is Station you wish to be member)	Member 01: 10 BKSP SAVE CHG
Press: SAVE	Member 01: 10 BACK NEXT CHG

Continue to add members, go to next Hunt Group or EXIT.

# MT-360 SERIES DIGITAL KEY SYSTEM

# DATABASE PROGRAMMING SHEETS

# **SECTION 3**

SYSTEM	Т	YF	PE
MF KF			

SET	CAT	EG	ORY

STATION NUMBER	DEF.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Day Class of Service (O-7)		1	1												1			Ì			
Night Class of Service (O-7)																					$\Box$
Routing Class of Service (O-	3)									[											
Voice Mail Port Assignment (Y, N) Line Assignment (✓)																					
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Forced Account Codes (Y,N)	) N																				
Forced LCR (Y, N)	N																				
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Night Service Station (Y, N)	Ν																				
Station Group	1																				Г
(1, 2, 0, 4, 0, 0, 7, 0)		_	_	_	_			1	_	_			<u> </u>				<u> </u>			L	
Warning Tone (Y, N)	Ν																				
Drop Time out (V. N)		1	1	1	1	1		1			1	1	<u> </u>	[						1	1
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Station Position						1															
(two-digit number 1 O-89)	10-3	5			+		┢──														$\left  - \right $
Mail Box Assignment	010 031		Ī	Î					Ï	Ī		1	Ī			Ī			[		$\square$



#### LINE CATEGORY

•	Line #: Def.	1	2	3	4	5	6	7	8
Auto Attendant (Y,N)	No								
Hunt Group Answer (I-8)	1								
Dialing Type (Tone, <b>Pulse)</b>	Tone								
Hold Abandon (Y, N)	N								
Line Type (C.O., PBX)	C.O.								
Line Group (1, 2)	1								
Private To (Station Number	) None								

#### CALL HANDLING CATEGORY

DEF.

Barge-In (Y, N)	
Barge-In Alert Tone (Y, N)	N
Exclusive Hold Time (0, 1, 2, 3, 4, 5, 6, 7, 8 minutes)	3 min.
Flash Time (.1, .2, .3,1.5 seconds)	.7 sec.
Hold Reminder Time (0, 1, 2, 3, 4, 8 minutes)	3 min.
Recall Time (Transfer) (30, 60, 120 or 180 seconds)	60 sec.
Pause Time (1.5, 2, 3.5 or 5 seconds)	2.0 sec.
PABX Access Code (O-9 or 00-99)	9
Tone Duration (70, 120 or 150 milliseconds)	120 ms
Warning Tone Time (1, <b>2, 3, 4, 5,</b> 6, 7, 8 minutes)	3 min.
Boss/Secretary       Image: Secretary         Boss 1       Boss 1         Boss 2       Boss 2	Secretary     Secretary       Boss 1     Boss 1       Boss 2     Boss 2
DISA: Active Line (None, 1, <b>2, 3, 4, 5,6, 7, 8</b> )	
DISA Service (Day, Night, Never, Always)	Never
DISA Talk Time (1, 2, 3, 5, 10 or 15 minutes)	5 min.



#### Line-To-Line Conference Talk Time (1, 2, 3, 5, 10 or 15 minutes)

Camp-On Time (0, 10, 20, 30, 40 or 50 seconds)

5 min.	
10 min.	

#### **RESOURCE CATEGORY**



User Names (Up to seven characters per name) Station Number, Name

Station Number

Name

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33							81				

Line Names (Up to seven characters)

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#### System Speed Dialing (up to 16 digits) Bin Number .

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43	a3
44	a4
45	a5
46	86
47	a7
48	88
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#### Least Cost Routing

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#### Time List (Day Time) Table

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	Ре	riod (Start Time)	RCS 0	RCS 1	RCS 2	RCS 3		Pe	riod (Start Time)	RCS 0	RCS 1	RCS 2	RCS 3
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	Choice	TRK 1 (Y/N)	TRK 2 (Y/N)	TRK 3 (Y/N)	TRK 4 (Y/N)	TRK 5 (Y/N)	TRK 6 (Y/N)	TRK 7 (Y/N)	TRK 8 (Y/N)	Digit Mod (001~100)
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#### Route List Table

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	Choice	TRK 1 (Y/N)	TRK 2 (Y/N)	TRK 3 (Y/N)	TRK 4 (Y/N)	TRK 5 (Y/N)	TRK 6 (Y/N)	TRK 7 (Y/N)	TRK 8 (Y/N)	Digit Mod (001~100)
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This page is used to make additional copies for up to 200 Routes.

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#### PERIPHERALCATEGORY

SMDR Output

Incoming Call (Y, N) Account Code (Y, N)



**Data Rate Selection** 

Remote Baud Rate (110, 300, 600, 1200, 2400, 4800, 9600, 19200) SMDR Baud Rate (110, 300, 600, 1200, 2400, 4800, 9600, 19200)

Default	_	
9600		
9600		

#### Loud Bell

Service (Y, N):	Default
Line 1	N
Line 2	N
Line 3	N
Line 4	N
Line 5	N
Line 6	N
Line 7	( N
Line 8	N



Night	

All Day

SLT Hook Flash (300-900 ms in length) Start Time (60 - 1400 ms) End Time (100-I 506)

Default	
60	
300	

Voice Mail (Reason for call forward) Busy External (Y, N) No Answer External (Y, N) Always External (Y, N) Busy Internal (Y, N) No Answer Internal (Y, N) Always Internal (Y, N)

Empty Empty Empty Empty Empty Empty

Default

Call Forward Access Condition
Reason (Y, N)
Originator (Y, N)
Ext Hunt Group
Hunt Group I-8
Group Member

Deluuit	
Empty	
Empty	

Empty	ĺ												
Null													



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