



**4 LINE DISPLAY DIGITAL FEATURE  
TELEPHONE SET**



4 LINE DISPLAY DIGITAL  
FEATURE TELEPHONE SET

TECHNICAL  
REFERENCE  
AND  
USER GUIDE

APRIL 2010

# KAREL

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## DECLARATION OF CONFORMITY

### R&TTE-Directive : 1999/5/EC

Hereby, we:

**Karel Electronics Corporation,**

addressed : Organize Sanayi Bölgesi, Gazneliler Caddesi No:10 06935 Ankara,  
TURKEY

declare on our own responsibility, that the product:

**Digital Phone,**

**ST SERIES**

is in compliance with the provision of R&TTE directive 99/5/EC with  
requirements covering EN 55024 & EN 55022 of EMC directive 89/336/EEC  
and EN 60950 of Low Voltage directive 73/23/EEC.

ANKARA / TURKEY  
22.10.2003

Yaman Tunaoglu

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### **ST26 TTKK - Ver. AAD - 29.04.2010**

KAREL reserves the right to make modifications in product features mentioned in this document for development and improvement purposes, without prior notice. Individual products may possess characteristics different from those that have been mentioned in this document, due to their differences in software and hardware versions.



## **ISSUES TO PAY ATTENTION TO**

- Read this guide carefully before you use your device and keep it for later reference.
- Any mistake with the connections in your device may damage it or your exchange. Especially the connection to the exchange must be made by the Authorized Technical Services. The explanations about connections in the User's Guide have been intended to give information only.
- A connection box comes with your device. The connections must be made as described in the installation chapter.
- In case you need a connection of plug-outlet type, never apply electric plugs and outlets; use plugs, outlets and connection components that are specific to telephones.
- Do not make any connection other than the extension connection of the KAREL telephone system.
- There is no part that you can repair or maintain in your device; therefore call the authorized technical service in case of any malfunction.
- Keep your device away from direct sunlight.
- Do not let any liquid substance spill on your device.
- Do the exterior cleaning of your device with a slightly moistened piece of cloth.
- Do not apply any chemicals for cleaning.
- Please call your authorized dealer in case you would like to change the place of your device. Use its own packing to carry the device.
- Please do not use exterior signal for the test operations or maintenance. Any signal which is used externally may damage your device.

## **PREFACE**

Chapters in this guide have been prepared in order to present detailed technical information to people who need technical-introduction-based information about the ST26 Digital Feature Phones, in addition to giving technical information about programming and use of those telephones. By this way, one could understand abilities of the ST26 Digital Feature Phones, how it will be operated in accordance with customer demands and things that should be done in order to operate them with full performance.

The first chapter - “Technical Introduction” – It contains technical information about the hardware and software structures of the ST26 Digital Feature Phone. Information in this chapter, for which knowledge in mechanics, electricity and electronics may be prerequisite, aims to introduce structure of the phone.

The second chapter – “Installation” – The methods to be followed for the installation of the ST26 Digital Feature Phone are explained. This chapter must be read definitely before the installation by the personnel who will perform the installation.

The third chapter – “Program Features” – This chapter gives detailed information about the software features that will enrich functions of the ST26 Digital Feature Phone and that could be applied to meet daily communication needs of customers more comprehensively.

The final chapter - “Accessories” – This chapter gives information about the accessories can be used with ST30.

Best Regards,

KAREL

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# TECHNICAL INTRODUCTION

## INTRODUCTION

ST26 is a digital telephone set with 2-wire, which is special for the KAREL exchanges of DS series. It can be installed only on the new digital extension card (UPN) of the KAREL DS-series exchanges.

With the ST26 telephone sets:

- Users are provided with the facility of performing several operations such as calling back, auto dialing, follow me, conferencing and alarm setting, by pressing a single key through special-purpose keys and the display that are on the telephone, without the necessity to know the system-specific special codes.
- Active services and call information, as well as the actions that the user can take for them, are displayed through the four-line LCD (liquid crystal).
- Actions that can be taken for the active services and the call information, which are indicated on the LCD display, are carried out easily and rapidly through four keys with special functions that are located below the display.
- One-touch extension and/or line calls can be made over the phone book and programmable keys.
- Statuses of the extensions and/or lines that have been assigned to those keys can be viewed through the lights (LED) in two colors, which are embedded into the programmable keys.

## COMPATIBILITY

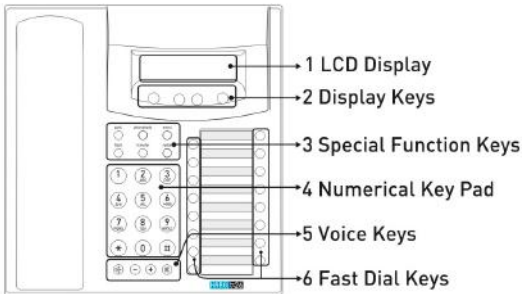
ST26 digital telephone set is compatible with the entire versions of the exchanges of models DS series. It can be installed only on EX200 (0/16KoU) modules of the DS series exchanges.

## PARTS LIST ON DELIVERY

Parts included in the ST26 package:

- ST26 telephone,
- Handset,
- Spiral cable of the handset,
- Data cable with RJ11 connectors at two ends,
- Console connection box,
- Technical Reference and User Guide.

# GENERAL APPEARANCE



# TECHNICAL SPECIFICATIONS

Weight: 900 gr

Dimensions: 217 mm x 229 mm x 86 mm

Operational Temperature: 0 °C - 40 °C

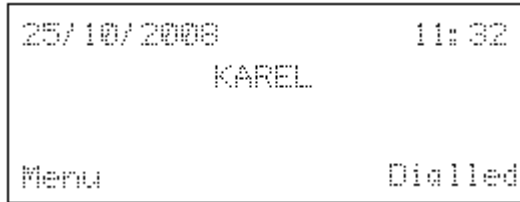
Storing Temperature: -20 °C - +60 °C

Humidity: 10 - %80 (non-condensing)

Dialing Method: DTMF (Tone dialing)

# USER INTERFACE

## LCD DISPLAY



Information presentation display is of four lines with 20 characters. The following information that facilitates usage is present on the LCD display, which indicates the active features of the telephone and the functions of the flexible keys at that moment:

- Date, time
- Entry to the menu options, phone book
- Activated services (such as Auto-dial, Follow Me and Redial)
- Call information
- Action options that can be taken for the active call and service

## DISPLAY KEYS



These keys are located below the display and they play an important role in usage of ST26.

Actions that can be carried out and/or information that can be received by a user while:

- a call / conversation is being made
- the telephone is being programmed
- the telephone is on hook

are presented through the display.

In order to carry out these actions and/or access that information, the selection and navigation keys are pressed according to the options on the display. According to the information on the display, any desired option can be easily accessed by pressing one of the selection keys. Besides, it is possible to browse the menus flexibly by the navigation keys.

These keys are used for accepting or declining the alternatives presented to the user on the display at that moment, or they are used for accessing new alternatives. Functions that will be activated by those keys or title of the information to be accessed are indicated on the display. Such a display will be actualized only if there exists a function programmed for the key or information to be accessed through the key. For example, if there are options not more than two, then the navigation keys do not function.

## Selection Keys:

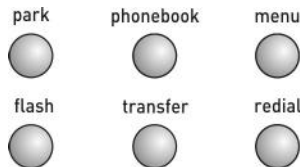
They are used for confirming and activating the case indicated right at the top of the display at that moment. Function of the selection keys change according to the options prompted on the display.

## Navigation Keys:

While in programming mode, the left navigation key provides access to the previous main menu if it is pressed on main menus, and if it is pressed on submenus, then the entire options in that submenu are displayed. Starting from the first submenu down to the last one, the entire options can be easily reached; moreover, one goes back to the first submenu again after the last one, without exiting to the main menu. However, if the "Exit" option is confirmed through the selection key, then one goes back to the main menu, where those options are located. While making changes in the content of the phone book, as the cursor shifts one digit back, the entry is erased by one character on each move.

Through the right navigation key, one proceeds to the next option or message from the entire main menus and submenus (Provided that the character ">" has already appeared on the display.) The entire main menus starting from the first one down to the last are displayed and then one returns to the first main menu again, after the last menu. It is also possible to browse the submenus, once one has made a selection in the main menu and has proceeded to the submenus.

## SPECIAL FUNCTION KEYS



- **"Park" Key:** If this key is pressed during an ongoing line call, then that line is parked. If it is pressed when there is a parked line, on the other hand, then the parked lines are retrieved one by one.
- **"Phone Book" Key:** This key activates the phone book and it provides access to the entire telephone records from that.
- **"Menu" Key:** This key activates the menus by which the telephone is programmed and it provides access to the submenus.
- **"Flash" Key:** It puts an ongoing external or internal call on hold or puts a line on hold back to conversation mode.
- **"Transfer" Key:** It functions the same as hanging up and then picking up phone. While there is a line on hold, it transfers the other ongoing call to the line on hold.
- **"Redial" Key:** This key dials again the last external number that has been called.

### Park:

Line conversation can be parked by pressing this key during the conversation. And also internal conversation can be parked through this key during the conversation. If it is pressed when there is a parked line, then it puts the parked line into conversation

mode. Likewise, if this key is pressed when there is a parked internal call, it puts the internal call into the conversation mode. When the call is parked by using that key, "Held XXXX" message and retrieve option for the line appear on the display. The call can be retrieved by pressing the "Retrieve" key or by pressing the "Park" key for a second time.

If the "park" option displayed on LCD display is pressed "Parked Lines XXXX" message will appear.

A call can be parked more than once and more than one line can be parked at the same time. When a line has been parked, the telephone can be used independently from that external conversation, i.e., internal and external calls can be made by making use of the entire features. For ST26 users, if there are parked line and also parked internal call and if the other service is activated, the internal line call will be retrieved in turn with this key.

The first call which is parked will be displayed in the first rank of the park list.

## Phone Book:

This key provides access to the telephone book, which has been created through the main menus that have been accessed by using the "Menu" key or its option on the display, which contains names and phone numbers and over which operations on those entries could be carried out.

If there is any record in this phone book, then those records, which are in alphabetical order, are directly displayed. The records that are present in the telephone at that time can be directly searched by name or number query through the "Find" option on that display. (The phone book is empty at the first use of the telephone.) The other records can be displayed by the navigation keys.

Besides, the "Find", "Add", "Change" and "Clear" options can be accessed over the navigation keys after selecting the "Up" option that is on the display. The other records can be displayed through the navigation keys.

In the event that there is no record, only the "Add" and "Change" options are displayed. The submenu title, named as "Constant Message", can be accessed when the "Change" option is selected and the navigation keys are used. The expression with at most 16 characters that is entered here will be displayed on the display of the telephone during off-hook state. Detailed information about the phone book has been presented in the relevant section.

## Menu:

It is used for doing the entire Phone Settings. The menu is entered by pressing this key and then one can proceed to the entire main menus and then to the submenus, and the navigation keys can be used for moving within those menus or submenus, if necessary.

The telephone gets into the busy mode after the menu has been entered and it remains so until the menu is exited.

## Flash:

It is used for putting the calling party on hold during an internal or external call. When it is pressed for a second time, the call on hold is retrieved, or the call can be retrieved by the “Retrieve” option that appears when the key is pressed.

It drops the line when it is used while the other party has not yet picked up the phone. A single call can be put on hold at a time. There is no limit for the duration to press the key; however, in the event that the line that has been put on hold has not still be retrieved at the end of a certain period that is determined by the exchange software, the line may automatically be dropped.

## Transfer:

It is used for transferring an ongoing call to another call that is on hold. In order to actualize the transfer operation, first of all the conversing party should be put on hold by using the flash key or the “Hold” / “Park” option on the display. Afterwards, the number to which the transfer operation will be done is dialed. At this point, the operation is accomplished by pressing the transfer key before or after conversing with the extension to which the call is to be transferred.

During a “Transfer” operation done via ST26/DS200:

- A line cannot be transferred to another line.
- If it is the ST26 user who has started the conversation, then an extension cannot be transferred to a line.
- On the other hand, if it is a line that has started the conversation, then that line can be transferred to an extension.

Making use of the transfer option on the LCD display will also accomplish the transfer operation following the same rules above.

## Redial:

It dials again the last number that has been dialed. This key functions the same way as the “Redial” option on the display. The difference between “Redial” and “Auto-dial” is that the “Auto-dial” option automatically calls the other party repeatedly until busyness status is over (Actually, at most 16 times), whereas the “Redial” option calls only once. When the “Redial” option is used, the line access code and the dialed number are displayed together on ST26 display.

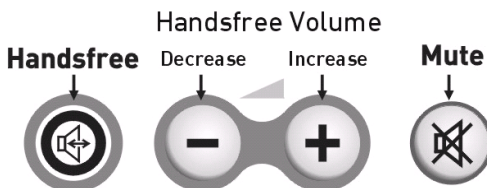
## NUMERICAL KEY PAD

It is composed of 3x4 (DTMF) key matrix. Moreover, these keys are used for number or character (letter, figure or symbol) entry during the operations related to the “Phone Book”. Grouping of the characters with respect to the keys are as follows. Standards that apply for similar applications have been complied with for this subject. If any programmable key or “#” key is pressed when the letter entry is being made with capital letters, the entry is switched to the small letters. By the same way, if any programmable key is pressed again, small letter entry switched to the capital letters. If the small letters are started to use the “^” will be displayed on the top left side of the screen. (If any programmable key is pressed while the cursor blinking on the letter the capital letters turn into the small letters, small letters turn into the numbers, numbers turn into the characters successively.)

Group of “1”: (space) 1 \$ % &	
Group of “2”: A B C 2 #	(a b c)
Group of “3”: D E F 3:	(d e f)
Group of “4”: G H I 4 -	(g h i)
Group of “5”: J K L 5 (	(j k l)
Group of “6”: M N O 6 )	(m n o ö)
Group of “7”: P Q R S 7	(p q r s)
Group of “8”: T U V 8 +	(t u v)
Group of “9”: W X Y Z 9	(w x y z)
Group of “0”: 0 → ! ? =	

## VOICE CONTROL KEYS

Control of voice features of ST26 are fulfilled by making use of four keys:



“” Key:

(Handsfree: It is a feature of telephone that it emits voices into the room or transmits voices inside the room to the other parties while the handset is still on hook.) This is the key with red icon that puts the telephone into the “handsfree” status and that signifies this through an embedded LED. The key is called HF key, and the LED inside it is called HF LED.



Key performs different functions in different cases. These are:

- When it is pressed while the handset is on hook, the telephone is picked up as “handsfree” and the HF LED lights. In this case, a number can be dialed and a conversation can be made without lifting the handset. Pressing the key during a conversation terminates the conversation.
- The HF LED starts to blink if it is pressed while dial tone or busy tone is being received over the handset or while a conversation is being made. If the handset is replaced before the HF LED goes out, then one continues to receive dial tone or busy tone, or one can go on with the conversation. The conversation is terminated if the handset is replaced after the HF LED has become off.
- If the handset is lifted during the handset status, then the rest of the conversation goes on via the handset. Replacing the handset terminates the conversation.
- While the handset is on hook, in the event that this key is pressed twice consecutively, the other party can be heard both via the handset and the HF speaker. The opposite party would hear the things spoken via the handset only, but no voice would be transmitted to the opposite party via the HF microphone. The conversation terminates by replacing the handset at this status.
- If “Headset” usage has been activated through menu options, then this key may also be used for putting the headset on line.



**Key:** It is used to decrease the level of voice received during conversation while in the Handsfree mode.

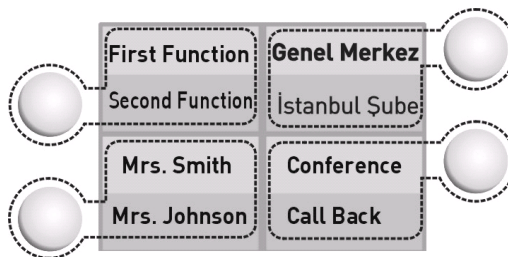


**Key:** It is used to increase the level of voice received during conversation while in the Handsfree mode.



**Key:** The **MUTE** key with a black icon, which provides interruption of the outgoing voices during the all conversations and which signifies that via the LED inside it. Pressing the key for a second time will maintain the voice transmission to the opposite party again.

## SPEED DIAL KEYS



Two functions can be programmed for each of the speed dial keys, which consist of 16 keys with lights. Features that can be assigned to these keys through programming:



- Extension Number
- Line Number
- Private and Common Pool Number
- Function Services (Services such as Follow Me, Call Back, Do Not Disturb, Telephone Lock, Conference, Night Mode, Pager Activation)
- Feature codes (DS200 programming and user codes, such as entry to programming by the code 877777, Do Not Disturb function by the code 831.)

These assignments are done to the first or the second functions of the key during the program entry done by pressing the “menu” option. Assignment is done to the first function if the key is pressed for a short time, and it is done to the second one if the key is pressed for a longer period. Transition of the key to the first or second function is indicated by a short or a long beep, respectively. Besides, the LED that belongs to the key lights in green for the first function and lights red for the second one during programming.

When the keys that have been programmed for extension, line, private or common pool are pressed, these numbers are called directly.

When the keys that have been programmed for the services such as Follow Me and Call Back are pressed, these services are activated directly or a necessary input is prompted. (Such as the extension number, to which the Follow Me action will be carried out.)

When the keys, to which “User Code” has been numerically assigned, are pressed, the service that has been determined through the user code is activated directly or the appropriate code is prompted. The Follow Me service (85) and the extension number to which the forwarding will be done would constitute an example for that kind of usage.

## FUNCTION PROGRAMMING FOR THE SPEED DIAL KEYS

This feature provides for taking advantage of some functions that have been defined for ST26 in the exchange properties, by pressing a single key. A user may program for those keys the features presented by the KAREL telephone branch exchange, which s/he would use most frequently.

Three different methods can be employed for assigning functions to the programmable keys of the ST26 telephone sets. These operations are carried out through the submenus of Feature, Feature Code or Auto Setting in the Phone Settings > Key Settings option.

### By “Function Menu

Features most frequently employed by users are among those options. The programming can be carried out by assigning desired ones out of the 9 options that have been presented in the Key Settings > Feature submenu, in order to apply that programming option. First the key to be used is selected, then the desired one out of the 9 presented functions is brought to the display through the right/left navigation keys

and the programming is completed by the “Accept” key. These selections have been explained below:

- **Follow Me Key:** If this key is pressed while dial tone is being received and then if number of an extension is entered, then forwarding to that extension is actualized and then red LED lights. If it is pressed again while dial tone is being received, then the forwarding is cancelled and the LED goes out.
- **Call Back Key:** If a called extension is busy or not answering and if busy tone is received upon attempting to access a line, then that extension/line is called back by pressing this key and the appropriate red LED lights. In order to cancel the call back operation, the key is pressed again while dial tone is received and the LED goes out.
- **Do Not Disturb Key:** It puts that extension into the “Do Not Disturb” mode if it is pressed while receiving dial tone and the red LED starts to blink. In that case, telephone rings once when the extension is called. If it is pressed again while receiving dial tone, then the “Do Not Disturb” service is cancelled and the LED goes out.
- **Phone Lock Key:** If this key is pressed while dial tone is being received and then a password is entered afterwards, then the telephone will be closed for external calls. The telephone will be open for external calls again, if the procedure is repeated in that mode. The corresponding red LED is on while the telephone is locked and goes out when it is unlocked.
- **Conference Key:** During a call with an extension or line, this key is employed for including another extension or line into the conference. If a line is desired to be included into the conference, the line with which the conversation is going on is put on hold by pressing this key and one proceeds to conversation status with the line to be included into the conference. A triple conference is established upon pressing this key again. If it is an extension that is to be included into the conference, then that extension is called after making hook flash during the call with an extension or line. The three party conference will have been established upon pressing this key, after initiating the conversation with that extension. If needed, the “Drop” option which appears on the LCD during the conference can be used. At the time of conference the “Mute” key can be used in order to provide the interruption of the outgoing voice. During the conference with the extensions or lines the information of the ongoing conversation of the extension or line will be displayed on the LCD
- **Night Mode Key:** It can be employed only through the telephones that have been defined as the operator. It puts the system into the Night Mode when it is pressed while dial tone is being received and the LED will be turned on. If it is pressed again, then it puts the system into the Day Mode and the LED goes out.
- **Message Listen Key:** If there is an EVM module on the system and a voice message is left to the extension, the LED of this key will blink to inform the user that s/he has got a new message. All voice messages left to the user can be listened successively if the key is pressed. If a password has been defined before,

a message “Please enter your password” will be displayed when the message listen key is pressed. After entering the password the voice messages can be listened.

- **Page Key:** When this “Page” key is pressed, the first functions of the all-programmable speed dial keys become the second functions for the same keys. In that case two different function statuses of each key are displayed through the LEDs. In normal operation, the LED lights in red for the first page functions and lights in green for the second page functions. When the green LEDs are ON, it means the second functions of the keys are active. Moreover, when the green LED lights, the character “^” will be seen in the date/time line of the 4 line display and it shows that the second functions of the programmable keys are active. If there is a key as a “page” key and another key is desired to program as page key, the first and the second functions of the old page key is directly erased. At the first initiation of the phone, the LED of page key (if exists) will light in red.
- **Call Collect Key:** When the user is busy or in a conversation, the incoming internal or external call can be answered by pressing this key and at that time the first call is dropped.

## Code Programming

### By “Feature Code” Menu:

The entire functions supported by the exchange can be programmed for ST26 telephone set through the Feature code menu. Any eight-digit code can be assigned to the programmable keys. That code could be one that is related to user, such as Follow Me (85), one that is related to the operator, such as Wake Up Service (8389) or one that is related to the system supervisor, such as entry to the exchange programming (877777). If the entered code is none of them, then it is taken as an extension number and this extension number is called directly when this key is used. After accessing the Key Settings > Feature code submenu, if one of the programmable keys is selected, one of the corresponding codes is entered for the “no=” option and then if it is confirmed through the “Accept” key, then the program will have been assigned to the selected key. (Please refer to the DS Series User’s Guide for information related to the functions supported by the exchange and the codes to program them.)

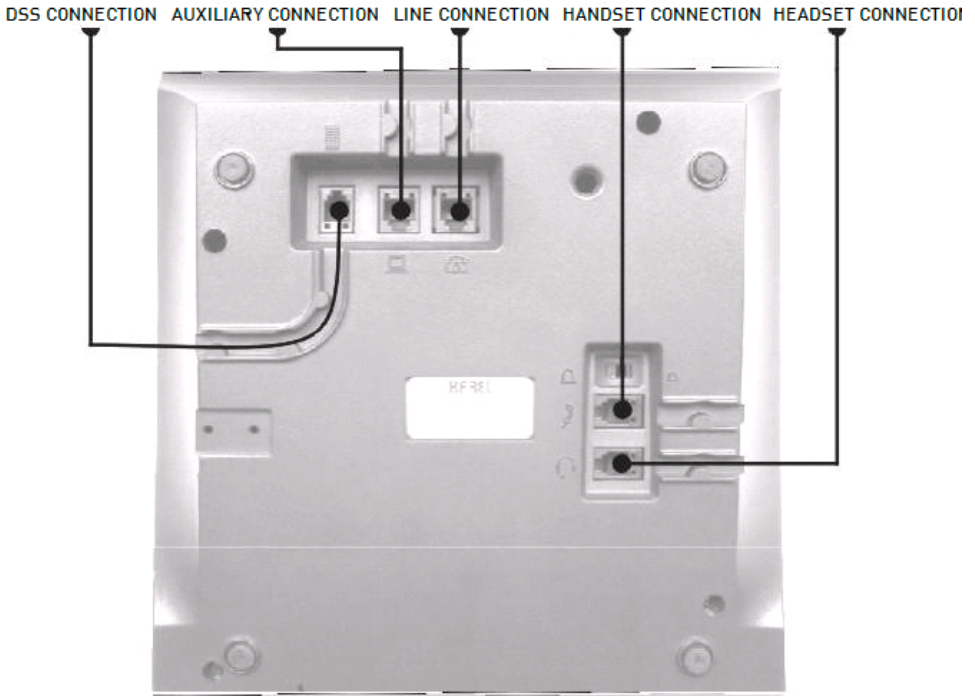
### By “Auto Setting” Menu:

In ST26 telephone sets, possibility of assigning different functions to the entire keys simultaneously is provided via the Auto Setting option under the Key Settings menu. This feature will be explained in detail later in the section “Auto Settings”. Via the automatic programming, about 20 functions can be programmed at the same time. These functions can be changed later one by one, as already explained in the sections above, or they can be cleared through the “Clear All?” option in the same menu.

# INSTALLATION

## CONNECTION POINTS

Under ST26, there are five connection points. Connections and their characteristics have been illustrated below.



**DSS CONNECTION:** It has been reserved for future use or applications.

**AUXILIARY CONNECTION:** The connection point that is required for programming ST26 over computer. It has been reserved for future use or applications.

**LINE CONNECTION:** Line connection point of ST26.

**HANDSET CONNECTION:** Handset connection point.

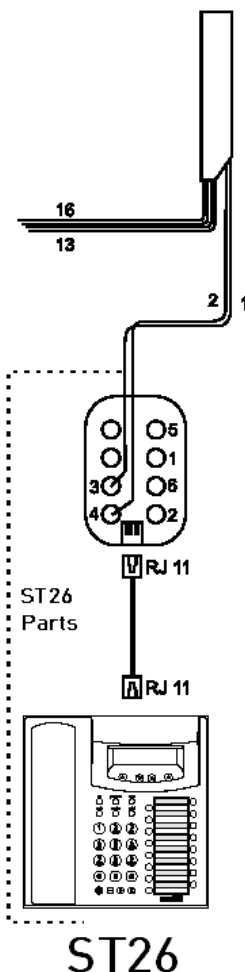
**HEADSET CONNECTION:** It is employed for connecting headset option to the telephone. The standard headset could be obtained from KAREL.

# LINE CONNECTION

The ST26 is a digital telephone set which, due to its structure, requires 2-wire connection. Parts list of ST26 includes the necessary cable group that is required for connecting it to the exchange. That cable group includes a console connection box and a cable with RJ11 jacks at both ends.

Wires of a cable extending from a digital-extension card of a DS-series exchange are separated in groups of two, with respect to the order. The cables in groups of two are connected disregarding the direction of the connection points 3 and 4 of the RJ11. Only a single ST26 can be connected to each of the groups of two. Number of ST26s that will be connected to the exchange and accessories using the external data line of the exchange should not exceed 25 in total.

The ST26 cannot be connected to two-wire interfaces of exchanges of other brands.

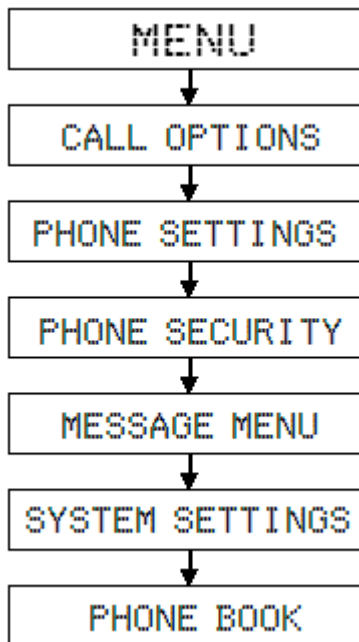


# PROGRAM FEATURES

## PROGRAMMING MENUS

The user performs entrance to programming by making use of the flexibly functional selection key that is under the option “menu” that appears on the display or specially functional MENU key, while the telephone is off hook and dial tone is being received. In order for the user to activate the services s/he makes use of or deactivate the active ones within the program menus, a single menu comes to view. If the service, which the user would like to do operations on, is active, then the “Disable” menu, or else the “Enable” menu come to view. The programming features consist of 6 main menus and their submenus.

Characteristics of the entire menus have been explained below.



# CALL OPTIONS

Submenu titles:

- **Call Diversion**
  - Status
  - All Calls
  - No Answer
  - On Busy
  - Busy/No Answer
- **Auto Dial**
  - Last Number
  - Private Pool
  - Common Pool
- **Paging**
  - Group
  - Extension
- **Missed Calls**
- **Answered**
- **Dialed**

## Call Diversion

- **Status:** By this option, the call diversion information can be viewed separately according to day/night mode and internal/external calls. In this way, users can follow up the activated call diversions easily.
- **All Calls:** By this option, any type of call (Extension, Line or Extension/Line Calls) can be forwarded to defined number for all conditions in selected (Day, Night or Day/Night) mode. By this way any incoming call will ring at the related number defined before, in any condition according to the system mode.
- **No Answer:** By this option, any type of call (Extension, Line or Extension/Line Calls) that is not answered within 3 rings can be forwarded to defined number in selected (Day, Night or Day/Night) mode. By this way any unanswered call will ring at the related number defined before, in “No Answer” condition according to the system mode.

- **On Busy:** By this option, if the called extension is busy the incoming calls (Extension, Line or Extension/Line Calls) can be forwarded to defined number in selected (Day, Night or Day/Night) mode. By this way the incoming call will ring at the related number defined before, in “Busy” condition according to the system mode.
- **Busy – No Answer:** By this option, if the called extension is busy or not answer within 3 rings, the incoming calls (Extension, Line or Extension/Line Calls) can be forwarded to defined number in selected (Day, Night or Day/Night) mode. By this way the incoming call will ring at the related number defined before, in either “Busy” or “No Answer” condition according to the system mode.

#### NOTE:

- Extended Call Diversion facility explained above, can be used with AAS or later software version of ST26. This facility can be only supported in DS Series Systems with z\_adz software version (the version of IDEA and Net-Console should be BAY and Release AAZ).
- Extended Call Diversion facility can not be canceled with the 866 or 868-coded program. It can be cancelled through telephone menu. Please note that all existing call diversions should be cancelled at the same time by dialing 85.

## Auto Dial

The telephone automatically calls the corresponding number when the auto-dialer is activated. If the called party is busy, then the calling action is performed repeatedly in every 15 seconds. As soon as the busyness of the opposite party is over, the telephone notifies that by ringing itself or by short beep. This feature can be deactivated by using the “Cancel” option on the display.

- By selecting the **Last Number** option, the most recent number that has been dialed is automatically called.
- When the **Private Pool** option is activated, the private pool numbers, which have previously been entered into the memory by the menu “Private Pool Entry”, are automatically called. The value to be entered here is one of the two-digit private pool indices in the range 1-9.
- By the **Common Pool** option, the common pool numbers, who have been stored in the exchange and whose entries have been done by the operator only are automatically called.

## Paging

In connection with the handsfree feature, pagings in several forms could be done in order to be heard through the speakers of the telephones while dial tone is being received.

- **Group**
- **Extension**



## Missed Calls

Information about the most recent 20 Missed Calls can be successively viewed including source and time of the call. In the event that there are more than one calls in the list, they can be browsed by using the navigation keys on the display. In case the source of the call is an extension, if name of the extension is present in the phone book, then that name is displayed instead of the number. The "Call" option in that menu provides for direct calling of the number.

## Answered

Information about the most recent 20 Answered Calls can be successively viewed including source and time of the call. In the event that there are more than one calls in the list, they can be browsed by using the navigation keys on the display. In case the source of the call is an extension, if name of the extension is present in the phone book, then that name is displayed instead of the number. The "Call" option in that menu provides for direct calling of the number.

## Dialed

Information about the most recent 20 Dialed Calls can be successively viewed including source and time of the call. In the event that there are more than one calls in the list, they can be browsed by using the navigation keys on the display. In case the source of the call is an extension, if name of the extension is present in the phone book, then that name is displayed instead of the number. The "Call" option in that menu provides for direct calling of the number.

**IMPORTANT NOTE:** In order to make a line call by using the "Call" option in these menus, the "Line Access Code" must be defined before, through the "Phone Settings" menu.

# PHONE SETTINGS

Submenu titles:

## **Key Settings**

- Extension
- Line
- Private Pool
- Common Pool
- Feature
  - Follow Me Key
  - Call Back Key
  - Do Not Disturb Key
  - Phone Lock Key
  - Conference Key
  - Night Mode Key
  - Message Listen
  - Page Key
  - Call Collect Key
- Feature Code
- Auto Setting
  - Option1
  - Option2
  - Option3
  - Clear All
- **Do Not Disturb**
- **Reminder**
  - Without Message/ Time=
  - With Message/ Time= / Please Leave Message
- **Eprom Version**
  - System Version
  - ST Version
- **Lazy Mode**
- **Private Pool Entry**
- **\*Language**
- **Headphone**
  - Disable
  - With Handsfree
  - Without Handsfree

- **Sounds&Alerts**
  - Signal Beep Option
  - Keypad Sound
  - Ringer Volume
  - Microphone Volume
  - Ring Tone
  - Ring Cadance
- **Price**
  - Meter Pulse Price
  - Last Call
- **Home Area Code**
- **Line Access Code**
- **Enblock**

## Key Settings

Number of keys that can be programmed is 16 in total and assignments of programs are done to those. In case the user presses those keys continuously for one second, the second function of the key is detected. Therefore, total number of features that can be programmed becomes 32. During programming, the LED that belongs to the keys signifies to which key and to which function of the key the assignment is done by lighting in two colors. When the LED is observed to be lighting in green by pressing the key until the single short beep is received, the first function will have been assigned and the second function will have been assigned when the LED is observed to be lighting in red by pressing the key until the short beep is received for the second time (for 1 second.) The keys become active after the programming mode is exited

The assignments performed on these keys cannot be cancelled one by one; however, new assignments can be done to them without encountering the error signal. Cancellation of contents of the programmable keys can be carried out by selecting Phone Settings > Key Settings > Auto Setting> Clear All.

## Extension

The user can reach an extension that is called frequently through a single key by programming her/his number on that key. In order to do that, one first proceeds to the programming menu.

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ **No:** Then the “no=” menu comes to view. In this menu, the display cursor enables data entry. After the user enters the extension number by using the numeric keypad, s/he confirms the extension number s/he has entered by pressing the “Accept” key. The user can enter an extension number with at most 8 digits.

In the event that the number is correct, the message “Successful” is displayed for 1 second, OK tone is received and the Key Settings is completed.

After the acceptance of the extension number, there is no message given to the user if the entered number has been programmed on another key before, the latest programmed key will be valid.

An extension number can be assigned to a single key only. After the programming mode is exited and those keys are pressed, the extension that has been stored on the key is directly called. In addition to the calling function, status of the extension, which has been programmed as the first function of the programmable keys can be viewed by the LED next to it, as described below.

Extension Status	Red LED
On Hook	Off
Busy	Continuously On
Ringing	Blinking

## Line

It enables the user to program a specific line number on a key. By pressing that key, the user can access the line that has been programmed on the key and make a call (provided that it is vacant) and the user can access that number by a single key. In order to do that, one proceeds to the extension programming menu.

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ **No:** If a determined line number is entered and confirmed, then that line number will have been assigned to that key. The number could be of at most 8 digits.

A line access code can be assigned to a single key only. After the programming mode has been exited, upon pressing those keys, it is possible to access the programmed line, without pressing **9**. While a line that has been assigned to a programmable key has already been accessed, if that key is pressed, then the line is parked. The line is retrieved upon pressing the key again.

LEDs are displayed in double colours. For the first function of the key, the LED blinks in red, for the second function of the key the LED blinks in green.

Status of the line, which has been programmed as the first function of the key can be viewed by the LED next to it, as described below.

Line Status	Red LED
Available	Off
Busy	Continuously On
Call request is being received	Blinking
Parked	Blinking fast
Out of Service	Off

## Executive Key

Any extension who diverts his/her calls to user, can be assigned to that key. Extension who diverts his/her calls, could be thought as executive and priority can be given to the incoming calls to that executive. At that situation when user is on the phone, s/he can easily notice that there is an incoming call to executive and s/he can answer that call with a single key. To program executive key:

- ◆ **Press Key:** Press the key which is wanted to be programmed
- ◆ **Executive No:** Enter the extension number which is selected as executive.

After the extension number is accepted as executive, the message “Successful” will appear for 1 second and a tone will be heard.

### Note:

- An extension can be assigned to more than one executive key. In case of the busyness, if there are more than one incoming calls at the same time, those calls can be assigned to the executive keys starting from the last
- Different extension numbers can be assigned to different keys as executive. If those assigned executives call each other, calls can not be monitored by the executive keys.

## Private Pool

The user can program 9 line numbers, which the user calls most frequently on the private pool of the telephone. The user could shorten duration of calling action by programming the memory numbers on the keys. However, that programming is carried out depending on the memory storage that has been done previously through the PHONE SETTINGS >PRIVATE POOL menu.

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ **Register no:** In this menu, the display cursor enables data entry. Here, entries of the indices that could be assigned are done as single digit in the range 1-9. The entered index is automatically detected and then the number that the user would like to be assigned to the key is prompted by the “no=” menu.
- ◆ **No:** Any desired line number could be entered. Even though 9 is not appended to the beginning of the numbers that are stored in the private pool, during the calls made by using the keys, whose assignments are done in this menu, calls are made by including 9 at the beginning of the numbers in order to access lines directly. After exiting the programming mode, when these keys are pressed, the private pool number that has been assigned to the key is directly called.

## Common Pool

Line numbers that have been stored in the common pool memory fields with number 000-999 by the operator can easily be assigned to the programmable keys.

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ **Register no:** Indices that belong to the line numbers, which have been entered into the common pool of the exchange, are assigned to the programmable keys by this menu option. After exiting the programming mode, when these keys are pressed, the common pool number that has been assigned to the key is directly called.

As a characteristic of the systems, the index that is supposed to be entered here must be exactly of three digits (such as 001).

## Feature

It provides making use of some functions that have been defined in the system by pressing a single key. For example, in order for the call requests coming to the user to ring at some other extension, the user can press the key that has previously been programmed and enter the number of the extension, to which the user would like her/his calls to be forwarded.

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ Then the “Function/ Follow Me Key” menu is displayed. Through the right navigation key, the desired feature is reached in this menu. After the user has reached the function s/he wants, confirms it by pressing the “Accept” key. It is checked whether the selected function has previously been set. If it has been set before, then the program is not accepted; it is accepted only if it has not previously been set and the LED that belongs to that key is turned on. (This system is like the one in the Extension Programming, the message “Successful” is displayed for 1 second and confirmation tone is received.)

The functions are as follows:

### Function Options:

- Follow Me Key
- Call Back Key
- Do Not Disturb Key
- Phone Lock Key
- Conference Key
- Night Mode \*
- Message Listen
- Page Key
- Call Collect Key

\* It applies only when the user is the operator.

## Feature Code

Any code of 8 digits can be assigned to the programmable keys by using this menu option. (At most 15 digits can be entered.)

- ◆ **Press Key:** The key, on which the programming will be done, is pressed for a short or a long period in order to select the first or the second function, respectively.
- ◆ **Code:** This code may be one, such as 85 (Follow Me) that could be applied by a user, one, such as 8389 (Wake Up service) that could be applied by the operator or one, such as 877777 (Entry to exchange programming) that could be applied by the system supervisor. If the entered number is none of these, then it is detected as an extension number and that extension is called whenever that key is used.

If the code is not supported by the system or an extension is not allowed to use the code, when the related key is pressed it gives “error” message.

## Auto Settings

When selected, 3 different options are presented to the user. Upon any of those options is selected, extension, line or user features are assigned to the programmable keys automatically or the entire key assignments that have previously been done are cleared. As for these options:

- ◆ **Option 1** (Extension Numbers)
- ◆ **Option 2** (Line Numbers)
- ◆ **Option 3** (Automatic Functions)
- ◆ **Clear All**

### Option 1:

The user is first required to enter an extension access code. Then 32 extension access codes are assigned to the keys. Extension access code assignment starts from first function of first key (the top key on the left side). With one increment for access codes, initially first functions then second functions of the keys are filled.

### Option 2:

The user is first required to enter a line access code. Then 32 line access codes are assigned to the keys. Line access code assignment starts from first function of first key (the top key on the left side). With one increment for access codes, initially first functions then second functions of the keys are filled.

### Option 3:

How the keys will be programmed by this option has been illustrated through the diagram below.

**Here, “E” is the abbreviation for extension numbers, “L” for line numbers, “PP” for Private Pool and “CP” for Common Pool.**

Option 3			
1.key	<b>Fonk1</b> Phone Lock <b>Fonk2</b> PP 1 (CP000)	9.key	<b>Fonk1</b> Follow Me On Busy <b>Fonk2</b> PP 9 (CP008)
2.key	<b>Fonk1</b> Auto-Dial <b>Fonk2</b> PP 2 (CP001)	10.key	<b>Fonk1</b> Conference <b>Fonk2</b> CP009
3.key	<b>Fonk1</b> Alarm <b>Fonk2</b> PP 3 (CP002)	11.key	<b>Fonk1</b> Music <b>Fonk2</b> CP010
4.key	<b>Fonk1</b> Do Not Disturb <b>Fonk2</b> PP 4 (CP003)	12.key	<b>Fonk1</b> Call Pick Up <b>Fonk2</b> CP011
5.key	<b>Fonk1</b> Follow Me <b>Fonk2</b> PP 5 (CP004)	13.key	<b>Fonk1</b> Follow Me No Answer <b>Fonk2</b> CP012
6.key	<b>Fonk1</b> Line Park <b>Fonk2</b> PP 6 (CP005)	14.key	<b>Fonk1</b> Message Listen <b>Fonk2</b> CP013
7.key	<b>Fonk1</b> Page Key <b>Fonk2</b> PP 7 (CP006)	15.key	<b>Fonk1</b> Reminder <b>Fonk2</b> CP014
8.key	<b>Fonk1</b> Call Back <b>Fonk2</b> PP 8 (CP007)	16.key	<b>Fonk1</b> Intrusion <b>Fonk2</b> CP015

## Do Not Disturb

- ◆ When **Enable** is selected, telephone rings once in every 20 seconds for an incoming call.
- ◆ Do Not Disturb mode is cancelled upon selection of **Cancel**.

## Reminder

- ◆ **With message:** Following the entry of the reminder time in “HHMM” format, a message with maximum duration of 30 seconds could be recorded without waiting for any notification signal. Whenever the reminder is active, the reminder tone is received from the telephone. This option is displayed only when there is an EVM module installed in the system.
- ◆ **Without message:** It provides for receiving of the reminder tone until the telephone is picked up and then hanged up at the time of reminding, which has been entered in “HHMM”.

## Eprom Version

One can reach version information of the DS200 exchange and the ST26 telephone.

- ◆ **System Version:** Example: - Z\_ADS
- ◆ **ST Version:** Example: ST26 V AAV



## Lazy Mode

- ◆ **Enable:** When the lazy mode is activated, the telephone is picked up automatically in handsfree mode and the call is answered.
- ◆ By selecting **Disable**, the lazy mode is exited; hence the telephone is not automatically picked when a call is received.

## Private Pool Entry

- ◆ **Register no:** The private pool index in the range 1-9 is entered corresponding to the “Register no” message displayed when this menu item is selected.
- ◆ **No:** Then, line number that will be assigned to the specified index is entered. No code should be appended to the beginning of that number for accessing a line. The STD, the ISD or the GSM operator codes should be fully entered, including 0. Extension numbers may not be assigned as private pool numbers.

## Language

Any desired one out of the language options that are displayed here, such as Turkish, English, Russian, Spanish, French, Afrikaans, Greek, Polish can be selected and the telephone starts to display menu messages in the selected language.

## Headphone

The “Headset” option, which is presented in order to make use of the telephone comfortably by a headset, offers three different options as disable, with handsfree and without handsfree.

- ◆ **Disable** mode is already active when the “headset” option is selected for the first time. It is employed for canceling the different later options.
- ◆ When **With handsfree** is selected, the telephone is picked up through the headset while it is on hook, by the fast handsfree key. Upon pressing it again, the headset is turned off and the telephone gets into the HF mode.
- ◆ When **Without handsfree** is selected, the telephone is picked up through the headset while it is on hook, by the fast handsfree key. If the handset is lifted during a conversation via the headset, the voice level decreases, for it will be split into two.

NOTE: In order to facilitate the headset utilization “Lazy Mode” can be selected too.

# Sounds & Alerts

## Signal Beep Option:

- ◆ When the **Enable** option is selected, a special warning tone is received for an incoming call, in case the phone is busy.
- ◆ The warning tone is cancelled through the **Disable** option.

## Keypad Sound:

- ◆ When the **Enable** option is selected, a keypad sound volume will be ON.
- ◆ The keypad sound will be OFF if the facility is cancelled through the **Disable** option.

## Ringer Volume:

Ringer sound volume level can be determined through this sub-menu. By using the navigation keys, desired volume level is selected within the range 00-12.

## Microphone Volume:

Microphone volume level can be determined through this sub-menu. By using the navigation keys, desired volume level is selected within the range 00-02.

## Ring Tone:

Ring Tone can be determined through this sub-menu. By using the navigation keys, desired ring tone can be selected out of 9 alternatives (00-08). As the ring tone selection change, the new tone is played to let the user listen.

## Ring Cadance:

Through this sub-menu, whether the telephone will ring with the cadence programmed on system side or on telephone side can be defined. If it is enabled, in this case telephone will ring with the tone and ring cadence which are programmed on the system side. If it is disabled telephone will ring with the tone cadence programmed on the telephone side.

## Price

- ◆ **Meter Pulse Price:** By selecting "Accept" in this menu, upon entering the pricing data of maximum six digits, which is considered to correspond to one pulse price, the pricing information based on that pulse price information is shown on the display during conversations. The character "," is supplied to be entered for

decimal values. For each pulse price the call charging can be calculated as decimal values. The decimal part can be entered after pressing the key “#”.

- ◆ By the **Last Call** selection, pricing of the last line, over which the call has been made is done.

## Home Area Code

With this facility, the city code is entered to the phone memory, thus the calling party number is shown without the city code for local calls, even though the network sends the city code appended in front of the caller id.

When the facility is selected, there is a cursor which allows maximum 6 digits to be entered is displayed on the screen. With this cursor the desired “home area code” is entered and then it is confirmed in order to be saved into the memory of the phone. If any number, within the defined home area code, is dialled only the number without the area code is displayed on the screen.

The existing area code (AAA) will be shown on the right side of the display when the “Home Area Code” menu is entered.

## Line Access Code

With this facility, if there is an incoming call that has the Caller ID information and the “Area Code”, which has been defined before, only the Line Access Code is displayed instead of the Area Code on the screen, for local calls. In order to realize it, firstly, the line access code is needed to be entered to the phone and saved into the memory. In this way, the caller id of the call will have line access code appended in front.

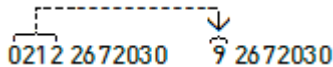
When the facility is selected, there is a cursor which allows maximum 6 digits to be entered is displayed on the screen. With this cursor the desired “line access code” is entered and then it is confirmed in order to be saved into the memory of the phone. If any number, within the defined home area code, is dialled the number with the line access code is displayed on the screen.

This facility provides to redial the missed calls within the defined codes with a single key.

The existing line access code (DD) will be shown on the right side of the display when the “Line Access Code” menu is entered.

Example:

Suppose that “Home Area Code” and “Line Access Code” have been defined successively as “0212” and “9”. If there is an incoming call with “0212 2672030” as caller id to the phone, since the first three digits of the incoming Caller ID information has been defined before on to the phone, the defined code “0212” will be erased and the line access code “9” will be added instead of home area code.



The user will see the number “92672030” through the screen as a call source. When this calling is got as a missed call by the phone, the user can call this number by pressing simply the “OK” key. The main purpose of this facility is providing to redial such a missed call within the defined local area with a single key.

#### Notes:

- When there is a returning parked call and the telephone is ringing, the caller ID is displayed together with the access code of line.
- When Last Number Redial option is used, only line access code was displayed on ST26 display. This is modified so that dialled number is also displayed.

## Enblock

While en-block call is not active and the telephone is on hook, it is switched on in handsfree mode as soon as a key is pressed, and each digit is transmitted one by one. On the other hand, after en-block call has been activated, the telephone is switched on only after all the digits are dialed, and those digits are transmitted in a block.

In order to activate en-block call the facility accessed through this menu needs to be enabled. Otherwise it needs to be disabled.

# PHONE SECURITY

Operations of defining / changing passwords, which are required in order to make use of features such as making calls or listening to messages through another extension within one's own authorization limits, can be carried out through this upper menu item.

Submenu titles:

- **Password**
  - Define (If there is no password)
  - Change (If there is password)
  - Cancel
- **Phone Lock** (If password has been defined)
- **Phone Unlock** (If telephone is locked)

## Password

In case the user has no defined password:

- ◆ When **Define** is selected, a password consisting of 4 digits (0000...9999) is expected to be entered.

In case the user has previously entered a password of her/his own:

- ◆ By the **Change** option, an existing password can be changed. First of all, the old password is entered and confirmed, and then the new one is entered. The new password will be active for later operations.
- ◆ By the **Cancel** option, the currently used password is cancelled and operation requiring a password cannot be done from then on. A password must be defined in order to enable such operations.

## Phone Lock

- ◆ **Password:** This menu appears only when the telephone is not locked and becomes active, if a password has been defined before. By this menu option, password query before line access, as well as telephone locking, is provided.

## Phone Unlock

- ◆ **Password:** This menu appears only in the event that the telephone is locked. The telephone can be unlocked by using the "Unlock" option and then entering password.

# MESSAGE

It appears only when there is an installed EVM module.

Submenu titles:

- **Absent Message**
  - Read Message
- **Message Listen**
  - New Messages
    - Message
    - Password= (If password has been defined)
  - All Messages
    - Message
    - Password= (If password has been defined)

## Absent Message

- ◆ **Read message:** By this menu, the user could leave a message to be announced to people who call the user when s/he is not at her/his place, provided that the user confirms the message through the “Terminate” key. In case the absent message is employed, the telephone does not ring when a call is received; instead, the calling party hears the recorded message. The maximum message duration is 30 seconds.

## Message Listen

The user can successively listen to the messages that the user has received. With the message key which informs that there is a new message through the related LED which blinks, the new message can easily be listened to. If a password has been defined, the user will be required to enter it.

- ◆ **New Messages:** With the message key which informs that there is a new message through the related LED which blinks, the new message can easily be listened to. If a password has been defined, you will be required to enter it.
- ◆ **All messages:** By this menu option, the user can listen to the entire (actually, the ones whose time-out periods have not yet expired and the ones which have not been \*erased.) messages that the user has received, provided that they have not been listened prior to last 15 minutes or locked.

\* The messages, which are listened to by using the “New messages” menu option are erased in 15 minutes unless they are “locked”.

# SYSTEM SETTINGS

Only the system supervisor is authorized to use this menu. That is, this menu is displayed only on ST26 that are employed as the operator telephone and some special operations can be carried out via this upper menu option.

Submenu titles:

- **Setting Time**
  - Time=
- **Setting Date**
  - DD/MM/YY=
- **Night Mode**
  - Enable/Disable?
- **Common Pool**
  - Register No=/ No=

## Setting Time

- ◆ **HH:MM=:** In this menu, the display cursor enables data entry and the user is required to enter the system time in 24-hour format. As soon as the user enters the hour, the character “:” automatically appears on the display and the user is expected to enter the minute.

## Setting Date

- ◆ **DD/MM/YY=:** In this menu, the display cursor enables data entry. As the user enters the day and the month, the character “/” automatically appears on the display.

## Night Mode

- ◆ **Enable:** The exchange is taken into the night mode.
- ◆ **Disable:** The exchange is taken out of the night mode.

## Common Pool Entry

- ◆ In the **Register no** section, ST26 primarily prompts the operator for the common pool number. Then the operator enters it. That number should be of 3 digits due to the exchange storage capacity of 1000 records. The number does not need to start with line access code.
- ◆ **No:** It prompts the operator for the number to be stored in the common pool.

# PHONE BOOK

A phone book of 50 entries in total can be created by using this upper menu item. 16 characters are reserved for the entry of name/number into the Phone Book. Numbers that have been stored in the phone book can be searched by using the “Find” option here. Search operation can also be carried out through the “Phone Book” option that can be seen on the off-hook display of the telephone or by employing the corresponding function key (phonebook.) Another advantage of using the phone book is in the event that any information of call, conversation, Missed Call, hold, park or forwarding that is related to a number stored in the phone book is received, the name corresponding to that information is displayed. If there are no records that have previously been stored in the phone, that upper menu item presents only two options, namely, “Add” and “Change”. The option “Change” here applies only for the permanent message that will be displayed continuously on the off-hook display of the telephone. Once the option “Add” is once employed, additional options are also presented to the user. Note that, while operations related to the entire options are being done, the left navigation key on the display can be employed for deleting letters or figures.

The numbers which have been added to the Phone Book before can be called through the phone. Also by pressing the “Phone Book” key which is seen on to the LCD display the desired number can be dialed after the number is found by using the “Find” submenu.

Submenu titles:

- **Find**
  - Find By Name
  - Find By Number/ No=Time=
- **Add**
  - Add/Name=
  - Add/No=
- **Change**
  - Find By Name
  - Find By Number
  - Constant Message
- **Clear**
  - Find By Name
  - Find By Number
  - Clear All

## Find

Searches can be performed among the records in the phone book by using this menu. Submenus “Find by name” and “Find by number” are located within this menu.

- ◆ **Find by name:** By using this menu, characters are entered and the Find operation is performed. When the telephone set finds the matching name within the records, that entry is displayed. In case the telephone could not find the exact name, the most similar entry starting with the same letter as the searched name is displayed. On the other hand, in the event that no entry starting with the same letter as the



searched name is found, the telephone set displays the first entry that starts with the alphabetically next letter after the first letter of the searched name.

- ◆ **Find by number:** By using this menu, the user enters a number and carries out the Find operation. In case no record that matches the entered number is found, the telephone set presents the entry within the records, which comes first with respect to the alphabetical order of their first letters. When any record is found, the other entries could also be inspected by using the navigation keys. While those records are being displayed, the user can exit the records and go back to the main menu by using the key “Up”.

## Add

The user can store data into the phone book by using this menu. When this menu is accessed, the telephone set prompts the user to enter a name (at most 16 characters). After the user enters name by using the search keys, s/he proceeds to number entry (at most 20 digits) section by using the “Accept” key. Following the number entry, storing operation is completed by pressing the “Save” key. When the phone book is entirely full, the “Add” menu is not displayed. If the related field is left empty “Enter a valid number” or “Enter a valid name” message will be appeared.

## Change

The submenus “Find by name”, “Find by number” and “Constant Message” are located within this menu. The entry to be changed is found by using search menus, as described above (When the searched entry is found, while the records are being displayed, the query “Edit” is also displayed.) The user initiates the change operation by pressing the “Edit” key. During the change operation, the display cursor enables data entry, so, any desired change could be made through the right navigation key. In that case, the left navigation key can be employed for deleting previous letter or number (as the Backspace key.) After the necessary changes have been made on the record, the user terminates the change operation by pressing the “Save” key.

- ◆ **Find by name:** By using this menu, characters are entered and the change operation is performed. When the telephone set finds the matching name within the records, that entry is displayed. In case the telephone could not find the exact name, the most similar entry starting with the same letter as the searched name is displayed. On the other hand, in the event that no entry starting with the same letter as the searched name is found, the telephone set displays the first entry that starts with the alphabetically next letter after the first letter of the searched name.
- ◆ **Find by number:** By using this menu, the user enters a number and carries out the change operation. In case no record that matches the entered number is found, the telephone set presents the entry within the records, which comes first with respect to the alphabetical order of their first letters. When any record is found, the other entries could also be inspected by using the navigation keys. While those records are being displayed, the user can exit the records and go back to the main menu by using the key “Up”.
- ◆ When **Constant Message** is selected, the entry message can be recorded or changed by using the “Constant Message” menu. Content of the entry message is KAREL by default.

# Clear

The submenus “Find by name” and “Find by number” are located within this menu. The entry to be deleted is found by using search menus, as described above (When the searched entry is found, while the records are being displayed, the query “Clear” is also displayed.) The user accomplishes the deleting operation by pressing the “Clear” key.

- ◆ **Find by name:** By using this menu, characters are entered and the deleting operation is performed for any desired record.
- ◆ **Find by number:** By using this menu, a number is entered and deleting operation is performed for any desired record.
- ◆ **Clear All:** When the “Accept” key is pressed in this menu, the entire phone book records and the entry message is deleted from the memory.

## Things to pay attention to while entering names and numbers to the phone book:

Numeric keypad is employed to enter names in any one of the submenus of the phone book main menu. Characters, which these keys contain, have been explained under the title “Numeric Key Pad”.

- The display cursor enables data entry, when typing letters on the display is required (name or permanent message.) Until the letter to be typed appears on the display, the corresponding key is repeatedly pressed without any break. In order to type the next letter, corresponding key of that letter is pressed as many times as necessary. If two letters that will be typed consecutively are on the same key, then it takes two seconds for the cursor to move to the next digit after the first letter is typed.

EXAMPLE: In order to type “TELEFON”, one should press 8 key once, 3 key 2 times, 5 key 3 times, 3 key 2 times, then wait for 2 seconds, after the cursor moves to the next digit, one should press 3 key 3 times, 6 key 3 times and after waiting for 2 seconds, again press 6 key 2 times. Then one proceeds to the next screen after confirming the TELEFON character string through the “Accept”key.

- If any programmable key or the key “#” is pressed when the letter entry is being made with capital letters, the entry is switched to the small letters. By the same way, if any programmable key or # key is pressed again, small letter entry is switched to the capital letters. If the small letters are started to use the “^” is displayed on the top left side of the screen. (If any programmable key is pressed while the cursor blinking on the letter the capital letters turn into the small letters, small letters turn into the numbers, numbers turn into the characters successively.)
- While typing letters or numbers on the display, previously typed letter or number can be deleted by pressing the left navigation key . This key functions as a “backspace” key.
- Upon pressing the “Accept” key without entering any letter or after deleting all the letters on the display, the error message “Enter a correct name.” is displayed.
- In the event that any information of call, talking, Missed Call, hold, park or forwarding that is related to a number stored in the phone book is received, the name corresponding to that information is displayed. Maximum 16 characters can be displayed on the screen.

# APPENDIX

## Error Messages

- The system takes no action for the keys pressed during display of the messages (Error message, Line back...) that resides on the display for a specific period of time.
- In the event that an incorrect operation is done while in the programming mode, the error message is displayed in two lines for one second. The user receives erroneous action tone from the handset during that period. No key pressed in the meantime is detected and the telephone returns to the upper menu after the error display is over.
- Whenever the SERIAL ERROR (XX) message is seen in the top line of the telephone, this indicates that the telephone cannot communicate with the exchange. In that case, the upper group keys and special keys of the telephone do not work. In such cases call your authorized reseller.

# ACCESSORIES

## DSS25–28 DIRECT STATION SELECT MODULE

DSS25–28 modules are designed as Direct Station Select modules for ST25/26/30 telephones. They facilitate extension/line/feature access by single key touch. Those keys are also used to monitor status of extensions/lines by their LED functions.



Digital DSS25–28 Direct Station Select Module consists of key pad. There are 28 programmable keys and a LED for each key. Functions of the keys can be followed by related LED. All of the keys are usually used to assign accessing codes, and there is not any necessity about programming on module.

For more information, please look at DSS 25-28 Technical Reference and User Guide.

