KAREL`NT30 D

DIGITAL TELEPHONE SET

TECHNICAL REFERENCE AND USER GUIDE

KAREL NT30 D

DIGITAL
TELEPHONE SET

TECHNICAL REFERENCE AND
USER GUIDE

OCTOBER-2011

KAREL

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 Telephone Set,

NT30D

is in compliance with the provision of R&TTE directive 1999/5/EC with requirements covering EN 55024 & EN 55022 of EMC directive 2004/108/EC and EN 60950 of Low Voltage directive 2006/95/EC.

ANKARA / TURKEY
22.10.2010

Yaman Tunaoğlu

$C\epsilon$

Version Table
Date/Version of Guide
05.04.2010/AAA
30.10.2011/AAB

NT30D TTKK – REV. AAB– 30.10.2011

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.

NT30D

⚠

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 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.

CAUTION

Since NT Series telephone sets are electronic-based products, the requirements below should be fulfilled in order to utilize them with desired performance:

The module and the telephone covers must not be opened by unauthorized persons in any way.

Precautions must be taken in order to prevent any harmful substances from leaking or spilling into the module and telephone in any way.

For the proper operation of your telephone, please make sure that the following criteria are satisfied:

- It must not be permitted to use the modules and telephones into the places where the temperature is out of the range of 0 C^o to +40 C^o; the relative humidity is above 80%; exposed to direct sunlight and the modules may be in contact with water, oil or dust.

- Anything, which may prevent proper ventilation of the system may be risky and affect the performance of the system.

- Your telephone and the module can also be hung on the wall. For this purpose, please ask the special accessory 'wall-hanging bracket' from your authorized dealer.

- Please note that you can hang your phone on the wall with one DSS module at most.

- If you want to connect more than one DSS to your phone, absolutely ask the special power adapter from your authorized dealer. It is not recommended to use any other adapter.

PREFACE

Chapters in this guide have been prepared in order to present detailed technical information about the NT30D Digital Phones, in addition to giving technical information about programming and use of those telephones. By this way, one could understand abilities of the NT30D Digital Phone, 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 NT30D Digital 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 NT30D Digital 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 NT30D Digital 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 NT30D Digital Phone.

Best Regards,

KAREL

CONTENTS

TECHNICAL INTRODUCTION

INTRODUCTION

The NT30D is a digital telephone set, which can be used with IPV Series and all DS Series Systems and that provides ease and rapidity to the usage of those systems.

By the NT30D telephone sets;

• Users are provided with the facility of performing several operations such as calling back, auto dialing, follow me, and alarm setting, by pressing a single key through multi-purpose keys, without the necessity to know the system-specific special codes.

• 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 the multi purpose soft menu keys that are located below the display.

• One-touch extension or line calls can be made over the phone book and programmable keys.

• Statuses of the extensions or lines that have been assigned to those keys can be viewed through the lights (LED) in red, which are embedded into the programmable keys.

COMPATIBILITY

The NT30D digital telephone set is compatible with IPV Series and all DS Series Systems of KAREL.

PARTS LIST ON DELIVERY

Parts those are included in the **NT30D** package:

- NT30D telephone,
- Handset,
- Spiral cable of the handset,
- Data cable with RJ11 connectors at two ends,
- Console connection box,
- Technical Reference and User Guide CD,
- Extra Stands (It is recommended to store them in a safe place, in case they are not used.)

TECHNICAL SPECIFICATIONS

Weight: Approximately 1 kg. (960 gr.)
Dimensions: Width: 22,8 cm.,
                   Length: 21,7 cm. (at the smallest angle of the display),
                   Height: 14,7 cm. (at the biggest angle of the display)
Operational Temperature: 0 – 40 °C
Storing Temperature: -20 +60 °C
Humidity: 10 - % 80 (non-condensing)
Dialing Method: DTMF (tone dialing)

GENERAL APPEARENCE
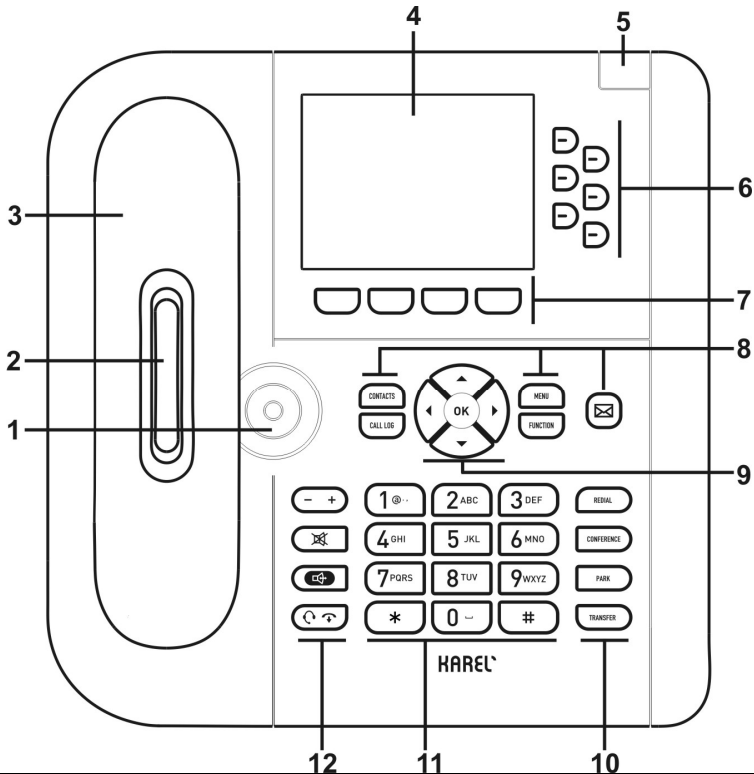
1	HF Speaker	5	Screen Slanting Latch *	9	Navigation Keys
2	Incoming Call LED	6	Shortcut Keys	10	Special Function Keys
3	Handset	7	Soft Menu Keys	11	Numerical Key Pad
4	Display	8	Special Function Keys	12	Voice Control Keys

* This latch must be used while the screen level is being adjusted.

USER INTERFACE

INCOMING CALL LED

This LED indicates the user by blinking, when there is an incoming call or a new message.

DISPLAY

The angle of the screen can vary between 3 different degrees. (Please use the Screen Slanting Latch while the screen level is being adjusted.)

LCD screen includes the following information which simplifies the use:
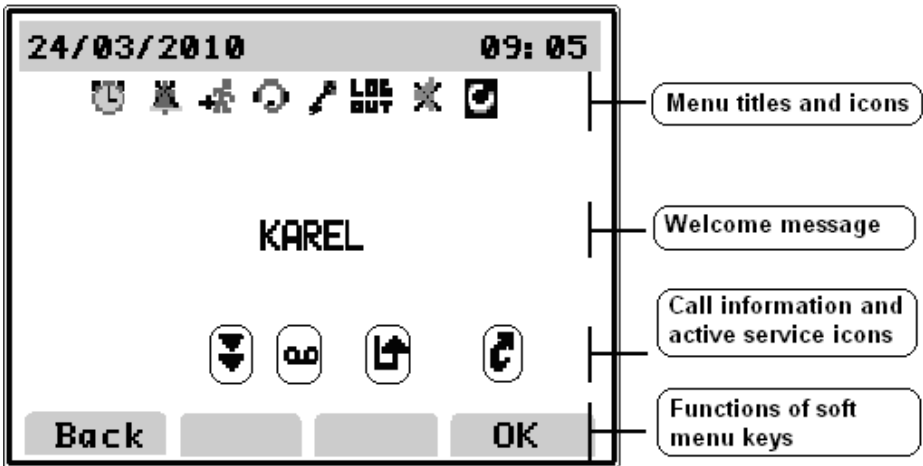
- The date and time,
- The defined message while the console is not busy,
- Functions of soft menu keys,
- Activated services (such as Follow Me, Do Not Disturb),
- Call information (Missed Call etc.)
- Usage modes (like headset) and other special icons (new messages, parked calls, shortcuts etc.)

In the top row of the LCD screen, the date is located in the left corner and the clock is located in the right corner. The line below is used for displaying icons and menu titles to provide information to the user. The user is informed about following cases by the displayed icons:

- Reminder is active (⏰)

- Do Not Disturb is active (✖)

- Call Diversion is active (↰)

- Headset is active (⌒)

- Phone is locked (🔒)

- Log Out mode is active (LOG OUT)

- Mute Mode is active(✖.)

- Night Mode is active (🌙)

- Background Music is active (♪)

In the bottom row of the LCD screen, functions of soft keys are displayed. The line above is used for icons of parked lines, missed calls, failed wakeups, active services, shortcuts etc.

ⓟ	: Park List	📠	: Voice Mail
⌊⁺	: Missed Call	✔	: Active Service
zᶻ	: Failed Wakeup	📇	: My Shortcuts
▼	: Incoming Call	⚠	: System Alarm

An icon is shown only if there is information in the relevant list (when there is at least one active service or at least one missed call etc.).

In the line above the selected icon, a descriptive message appears. If there is more than one icon on the screen, the right and left navigation keys can be used to move between the icons. When an icon is selected, the relevant list can be displayed by using the 'OK' key.

The contents of 'Active Service' list offered to users are as follows:

- Night Mode (only for the operator)
- Call Diversion, Do Not Disturb, Background Music,
- Auto-Answer, Auto-Dial,
- CLIR, COLR, LOGIN/LOGOUT,
- Phone Lock,
- Reminder, Alarm,
- Queue (entered extensions/lines)

MULTI PURPOSE SOFT MENU KEYS

These keys are located below the display and they play an important role in usage of ST30. Function of the keys changes according to the options prompted on the display.

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

- a call / conversation is being made

- the telephone is being programmed

are presented through the display.

Keys are used to confirm or activate the functions shown (just above the keys) in the bottom line of the screen. In addition, user can move between all offered options by using right and left navigation keys.

The functions of four soft keys just below the screen, change depending on the current situation of the phone (like 'Back', 'Cancel', 'OK', etc.), and they are displayed in the bottom line of the screen.

The special keys exist on the phone (like MENU, PARK, TRANSFER etc.) are not assigned to the soft key functions.

In case there are more than four functions for soft keys, the "<" and ">" characters are displayed on the left and right of the screen. Navigation keys (◀, ▶) are used to move between these functions.

NAVIGATION KEYS AND SPECIAL FUNCTION KEYS

"OK ^{OK} " Key: This key is used for confirming and activating the option on the display. Functions of this key change according to the options prompted on the display.

"Navigation (, , ,)" Keys: User can move between features with these keys, when there are multiple options on the screen, also the related option can be enabled with them too. They are used to pass to the next/previous option or message in all of the menus.

"CONTACTS" Key: This key provides access to the telephone book. 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.

"CALL LOG" Key: This key provides access to the Call Logs menu.

"MENU" Key: It is used to enter or exit the menu.

"FUNCTION" Key: This key provides user to use a feature easily. Any of the features listed in the My Shortcuts>Function Key menu can be assigned to this key. By default, there is no assignment on the key.

"Message ✉ " Key: This key is used to access the messages left to the phone if the is an EVM module on the system. It informs the user with its blinking LED in case there are any new messages on the phone. The messages can be listened in order bye pressing this key. (If a password is defined before, you are prompted to enter it, first.)

"REDIAL" Key: It dials again the last number that has been dialed.

"CONFERENCE" Key: It is used to include an internal/external call into the conference during a conversation between another internal/external call. If another line is desired to be included into the conference, first the current call must be parked and then the number of the other line is entered. After the new conversation begins, pressing this key includes the parked line into this conversation, so the triple conference is began. (In case there are more than one parked lines, when this key is pressed the line that will be included into the conference is selected from the list.) During the conference, pressing the button again, parks the last included line over. (Using the mute key provides interruption of the outgoing voice, during the conference.)

"PARK" Key: A call can be parked through this key during the conversation. A call can be parked more than once and more than one line can be parked at the same time. When a call has been parked, the telephone can be used independently from that conversation, i.e., internal and external calls can be made by making use of the entire features.

"TRANSFER" Key: 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. 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 after selecting the call - which the call is to be transferred- from the park list. (If the Quick Transfer feature is activated before, the last parked call is transferred by using this key.)

VOICE CONTROL KEYS

"Volume ⎡ − + ⎤" Key: It is used to increase or decrease the level (0 - 19) of the voice received during conversation.

"Mute ⊠ " Key: It is the key that 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.

"Speaker ⬛ " Key: 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'.

(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.)

" ⬛ "key performs different functions in different cases:

- 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.

- If it is pressed while dial tone or busy tone is being received over the handset or while a conversation is being made, the phone gets into the handsfree status and the rest of the conversation goes on via the HF Speaker.

- If the handset is lifted during the handsfree status, then the rest of the conversation goes on via the handset.

"Handset/Headset ⎡ ⌒ ⌒ ⎤" Key: It is used to answer an incoming call while the headset is connected and being used. It works as the same as lifting the handset up or replacing it.

NUMERICAL KEY PAD

It is composed of 3x4 (DTMF) key matrixes. Moreover, these keys are used for number or character (letter or symbol) entry during the operations related to the "Phone Book". (If related soft key is pressed when the letter entry is being made with capital letters, the entry starts to be made by small letters. By the same way, if the key is pressed again, small letters turn into the capital letters.) 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.

1	1. , : ; ' ! + % $ & / ( ) = ? - ><	
2	A B C 2	a b c
3	D E F 3	d e f
4	G H I 4	g h i
5	J K L 5	j k l
6	M N O 6	m n o
7	P Q R S 7	p q r s
8	T U V 8	t u v
9	W X Y Z 9	w x y z
0	space 0	

PROGRAMMABLE SHORTCUT KEYS

There are 6 shortcut keys on the right of the LCD screen and you can program most frequently used NT30D menus to them.

For this, any function must be selected through the Phone Settings>General>My Shortcuts>Define Menu Shortcut.

At least one of these keys is assigned a function, 'My Shortcuts' icon (🖳) is displayed at the bottom line of the screen. The functions of the programmed keys can be monitored through this icon by pressing 'OK' key. When the phone is in idle mode, any of the shortcuts can be used by pressing the related key. LEDs of the shortcut keys are not active normally, the LEDs turns on only when the user displays the key functions.

INSTALLATION

CONNECTION POINTS

Connections of NT30D have been illustrated below:
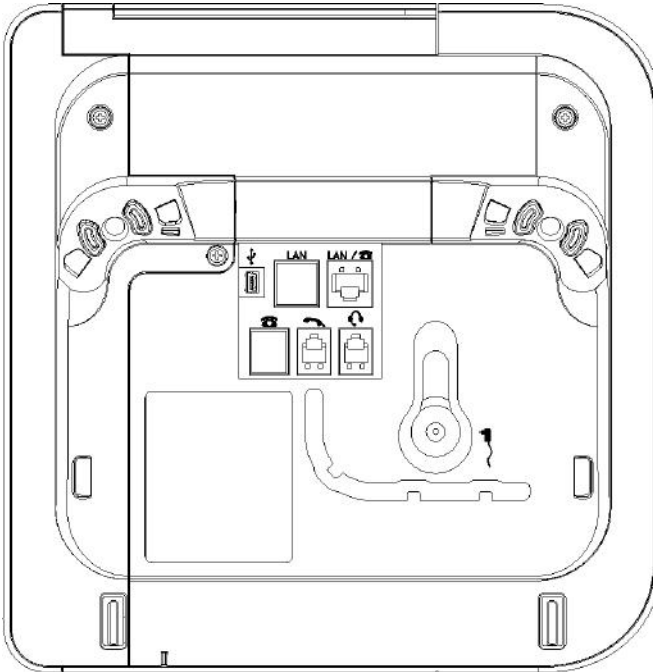
NT30D START-UP STATE

The telephone set would be ready for operation after the required connections have been made. The display and the programmable keys start to perform their functions.

By default, there is no program assignment for the shortcut keys. These keys are to be programmed by user according to needs. The settings done through the telephone set are not deleted even if the system is shut down and restarted.

If the telephone set has previously been connected to the system and if it is connected again after having been removed, then it gets ready for use within a few seconds. (After removing the phone, wait at least 4 seconds to connect it again.)

In the event that the exchange is reset or is shut down and restarted while the telephone has been connected to the exchange, the telephone first waits for the system to start and display the version information of NT30D, then it establishes the connection with the exchange after that waiting period.

NT30D USAGE ON TABLE

When you use NT30D as a desktop phone, with the help of its adjustable display, the angle between the display and table can vary between 3 different degrees.

Please use the Screen Slanting Latch as shown in the following while the screen level is being adjusted.
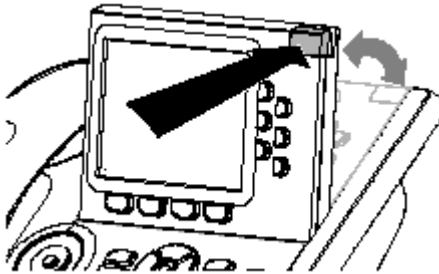
You can also raise your phone with the help of its extra stands as shown in the following:

Please keep the extra stands of your phone in case you don't use them.

NT30D USAGE ON WALL

NT30D telephone can also be hung on the wall.

You can assemble the special 'wall-hanging bracket' accessory to your phone, as shown in the following:
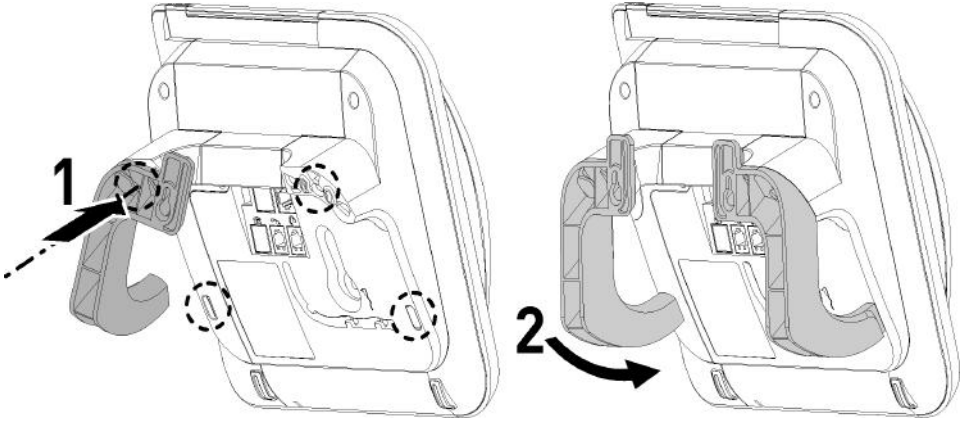
It is not recommended to hang NT30D telephone on the wall with more than one DSS module.

PROGRAM FEATURES

MENUS
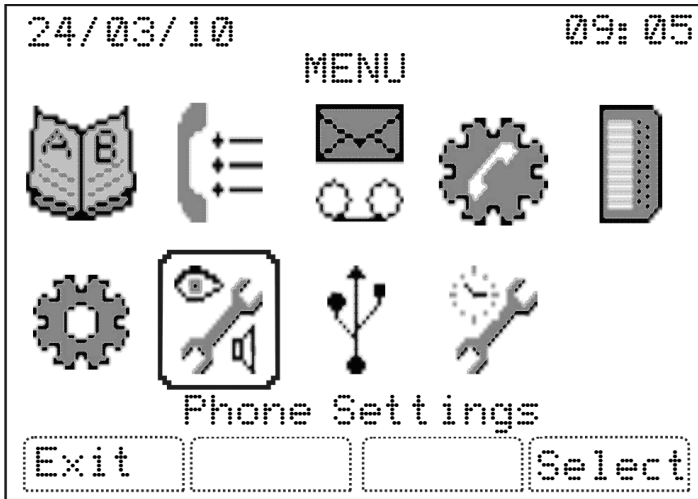
User can enter the menu by pressing the 'MENU' special function key. After pressing the 'MENU' key, first the icons of main menus are shown (this view can be changed through the Phone Settings). The navigation keys can be used to move between these icons and the menu title of each icon is displayed on the bottom of the screen. By pressing 'OK' key, the submenu titles of a menu can be listed.

The programming features consist of 9 main menus and their submenus:

PHONE BOOK
- Add New Record
- Edit
- Delete Record
- Delete All Records

CALL LOGS
- Dialed
- Answered
- Missed Calls
- Last Call Duration
- Total Call Duration
- Last Call Price
- Total Call Price
- Failed Wakeups
- System Alarms

MESSAGES
- Voice Mail

CALL SERVICES
- Auto Dial
- Paging

DSS SETTINGS
- Key Programming
- Auto Settings
- Delete Key
- Delete All Keys

SERVICE SETTINGS
- Call Diversion
- Alarms
- Do Not Disturb
- Hide My Number
- COLR
- On Line
- Background Music

PHONE SETTINGS
- Sounds
- Ring
- General
- Security
- Screen
- Menu View
- Factory Settings

USB
- Software Update

SYSTEM SETTINGS (only in the operator telephone)
- Time
- Date
- Night Mode

(Characteristics of the entire menus have been explained below.)

PHONE BOOK

Submenu titles of PHONE BOOK:

- Add New Record
- Edit
- Delete Record
- Delete All Records

A phone book of 120 entries in total can be created by using this upper menu item. 18 characters are reserved for the entry of name/number into the Phone Book. 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. The "Add New Record", "Edit", "Delete Record" and "Delete All Records" options in this menu can be accessed by the navigation keys.

If there are no records that have previously been stored in the phone, that upper menu item presents only "Add New Record" option (by default the phone book is empty). Once the option "Add" is employed, additional options are also presented to the user. Note that, while operations related to the entire options are being done, the related soft key on the display can be employed for deleting letters or figures.

ADD NEW RECORD

The user can store data into the phone book by using this menu. '**Name', 'Home', 'Business'** and **'Mobile'** fields are shown in this menu The right and left navigation keys are used to move between these fields. Maximum 18 characters information can be entered by using numerical keypad. (While adding a new record the 'Name' field must be absolutely fulfilled.) The recording process is completed by pressing 'Accept' or 'OK' key, and then the screen returns back to the 'Add New Record' menu. If the phone book is entirely full (totally 120 records), when the user is wanted to add a new record, he is warned about it.

EDIT

Records in the phone book are displayed in this menu. The record to be changed is found by using navigation keys. The user initiates the change operation by pressing the "OK" key.

DELETE RECORD

Records in the phone book are displayed in this menu. The record to be deleted is found by using navigation keys. After pressing the "OK" key, the user is prompted for confirmation. The user initiates the deleting operation by pressing the "OK" key again.

DELETE ALL RECORDS

When the "OK" key is pressed in this menu, the entire phone book records are deleted from the memory. After pressing the "OK" key, the user is prompted for confirmation. The user initiates the deleting operation by pressing the "OK" key again.

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".) Note that, while operations related to the entire options are being done, the key on the display can be employed for deleting letters or figures. While operations related to the entire options are being done, the navigation keys can be used to move between the letters/numbers.

• Uppercase / lowercase key transition can be made by related soft key. When the capital or small letters are being used, the "ABC" or the "abc" soft key is displayed on the screen.

• The display cursor enables data entry, when typing letters on the display is required. 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 a few 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 two times, 5 key three times, 3 key two times, then wait for a few seconds, after the cursor moves to the next digit, one should press 3 key three times, 6 key three times and after waiting for a few seconds, again press 6 key two times. Then one proceeds to the next screen after confirming the TELEFON character string through the "OK" key.

• Upon pressing the "OK" key without entering any letter/number or after deleting all the letters/numbers on the display, the error message "Error Incomplete Area" is displayed. It is required to enter information to the Name Field of a new record.

• 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 18 characters can be displayed on the screen.

CALL LOGS

Submenu titles of CALL LOGS:

- Dialed
- Answered
- Missed Calls
- Last Call Duration
- Total Call Duration
- Last Call Price
- Total Call Price
- Failed Wakeups
- System Alarms

DIALED

Information about the most recent 10 Dialed Calls can be successively viewed including source and time of the call. In the event that there are more than one Dialed Calls, they can be browsed by using the navigation keys on the display. In case the source of the dialed call is present both in the common pool and the phone book, then name in the phone book is displayed instead of the number. The "Call" option in that menu provides for direct calling of the number. (It does not provide for direct calling of the line number; if the line access code has not been defined before.) One can add the called number to the phone book by using the 'Add' option in this menu, or can delete it from the list by using the 'Delete' option.

ANSWERED

Information about the most recent 10 Answered Calls can be successively viewed including source and time of the call. In the event that there are more than one Answered Calls, they can be browsed by using the navigation keys. In case the source of the answered call is present both in the common pool and the phone book, then name in the phone book is displayed instead of the number. The "Call" option in that menu provides for direct calling of the number. (It does not provide for direct calling of the line number; if the line access code has not been defined before.) One can add the incoming call number to the phone book by using the 'Add' option in this menu, or can delete it from the list by using the 'Delete' option.

MISSED CALLS

Information about the most recent 10 Missed Calls can be successively viewed including source and time of the call. In the event that there are more than one Missed Calls, they can be browsed by using the navigation keys. In case the source of the unanswered call is present both in the common pool and the phone book, then name in the phone book is displayed instead of the number. The "Call" option in that menu provides for direct calling of

the number. (It does not provide for direct calling of the line number; if the line access code has not been defined before.)

If any call or active service information comes while the missed calls are displayed on the screen, the missed call information is assumed as unread and is not deleted from the list. When user wants to see all missed calls that will have the opportunity to see this missed call, again. One can add the missed call number to the phone book by using the 'Add' option in this menu, or can delete it from the list by using the 'Delete' option.

LAST CALL DURATION

The duration information of last call is given in this option.

TOTAL CALL DURATION

The total duration information of all calls is given in this option.

LAST CALL PRICE

The price information of last call is given in this option. For this, the unit price information must be entered through the Phone Settings>General menu, before. Otherwise, only the credit value is seen on the screen.

TOTAL CALL PRICE

The total price information of all dialed calls is given in this option. For this, the unit price information must be entered through the Phone Settings>General menu, before. Otherwise, only the credit value is seen on the screen.

FAILED WAKEUPS

(Appears only in the operator phone.) In case any extension wakeups (reminders) are failed, these failed wakeups are listed in the operator phone (depending on system characteristics). The extension information of last 10 failed wakeups can be seen through this menu.

SYSTEM ALARMS

(Appears only in the operator phone.) The alarm information of the system (such as PRI Synchronization, Closed Cards, and Extension Errors) is listed in this menu.

MESSAGES

(This menu is functional only when there is an installed EVM module.)

Submenu titles of MESSAGES:

- Voice Mail
    - o Temporary Absent Message
    - o Listen to All Messages
    - o Listen to New Messages

VOICE MAIL

Temp. Absent Message: By this menu, you could leave a message to be announced to people who call you when you are not at your place, provided that you confirm the message by pressing the "Finish" key or replacing the handset. 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. If one uses the phone for any reason (such as making a call, entering the menu) the 'Absent Message' is cancelled. The maximum message duration is 30 seconds.

Listen to All Mes. : By this menu option, you can listen to the entire (actually, the ones which have not been erased.) messages you have received. (Password is asked if it has been defined before.)

Listen to New Mes. : (Appears only if there is a new message.) By this menu option, you can listen to the new messages you have received. (Password is asked if it has been defined before.)

NOTE: The messages, which are listened to by using the "Listen to New messages" menu option are erased in 15 minutes unless they are "locked".

CALL SERVICES

Submenu titles of CALL SERVICES:

- Auto Dial
    - Last Number
    - Common Pool
    - Private Pool
- Paging
    - Page Extension
    - Page Group

AUTO DIAL

The telephone automatically calls the corresponding number when the auto-dial 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.

Last Number; By selecting this option, the last external number that has been dialed is automatically called.

Common Pool; By selecting this option, the common pool numbers (max. 16 digits), which have been stored in the exchange by the operator only, are automatically called. The value to be entered here is one of the common pool indices in the range 000-999 for NT30D.

Private Pool; By selecting this option, the private pool numbers, which have previously been entered into the memory, are automatically called. The value to be entered here is one of the private pool indices in the range 1-9 for NT30D.

Paging

Depending on the handsfree feature, two types of paging can be done in order to be heard through the speakers of the telephones while dial tone is being received.

Page Extension: The extension number must be entered if you want to page only one extension.

Page Group: One of the extension numbers in the PBX group must be entered if you want to page all members of a PBX group at the same time.

NOTE: If the headset is activated and used, the announce is heard from the headset, instead of the HF Speaker.

DSS SETTINGS

(This menu is functional only when there is a DSS module used with phone set.) Since the programming of DSS keys are directly made through the connected NT digital phone, there is no need to make any programming over the DSS module. All required settings are made through the NT Series Telephone Sets.

Submenu titles of DSS SETTINGS:
- Key Programming
- Auto Settings
- Delete Key
- Delete All Keys

KEY PROGRAMMING

There are totally 24 programmable keys and the assignments of programs are made through this menu. If the desired key is pressed for along time, the second function of the key can be used for the programming, so totally 48 functions can be programmed to these 24 keys. Keys become active after programming is done. The functions that can be assigned to keys are explained below.

Extension

User can reach an extension, which user call frequently, through a single key by programming the extensions number on the key. After entering the extension number, select the key you desired to program. An extension number can be assigned to more than one key.

After the programming mode is exited and this key is pressed, the extension that has been stored on the key can be directly called. In addition to the calling function, status of the extension, that was programmed as the first function of a programmable key, can be viewed by the LED of the key and also can be viewed on LCD screen of DSS3L-24 module.

Status	LED	LCD Message
On Hook	Off	"Extension Number"
Busy	Continuously On	"Extension Number"
Incoming Call	Blinking	"Extension Number ⁂."
Calling	Blinking with a Special Cadence	"Extension Number ⁑"
Parked	Blinking Fast	"Extension Number **P**"
Remained Open	Blinking with a Special Cadence	"Extension Number - FAILURE"

Line

It enables you to program a specific line number on a key. By pressing that key, you can access the line that has been programmed on the key and make a call (provided that it is vacant) and you can access that number by a single key.

A line can be assigned to more than one key. After the programming mode has been exited, upon pressing those keys, it is possible to access the programmed lines, without pressing 9. The status of the line (that was programmed as the first function of a key) can be viewed by the LED of the key and also can be viewed on LCD screen of the DSS3L-24 module.

Status	LED	LCD Message
Idle	Idle	"Line Number"
Busy	Busy	"Line Number"
Incoming Call	Incoming Call	"Line Number ⠿"
Calling	Calling	"Line Number ⠿"
Parked	Parked	"Line Number **P**"
Out of Order	-	"Line Number - FAILURE"

Call Control Key

This key is designed for users who have high intense call traffic, to park and hold calls by pressing a single key only. Any line (internal or external) which is not assigned to any key of DSS module, will be assigned to the first empty call use key. User can easily park and retrieve this call easily by pressing that key.

First of all, number of Call Control Keys -between 1 and 6- should be decided. (If the '0' is selected, the Call Control keys defined before will be cancelled.) After that, DSS number of the keys should be defined. (For example; when there are more than one DSS modules, if the keys wanted to be programmed as 'Call Control Key' are on the second DSS module, '2' must be written to 'DSS Number:' field.) After the process is confirmed, desired number of call use keys will be assigned to the related DSS module by starting from the last key of DSS module. (The last key on the related DSS module will be the first Call Control Key.) Thanks to this, six different calls can be controlled at the same time. Calls will be assigned to the call control keys in sequence (starting from the first one).

If there are no call assignment to those keys, there should appear ' - ' at near of the related key on the DSS3L-24 module. However if there is an assignment, there should appear the related number at near of the key. The status of a call can be viewed by the LED on the key and also can be viewed on LCD screen of DSS3L-24 module. LCD Messages and their meanings are shown below:

Status	LED	LCD
Incoming Call	Blinking with a Special Cadence	"Line / Extension number ☰"
Busy	Continuously On	"Line / Extension number"
Parked	Blinking Fast	"Line / Extension number **P**"

Phonebook

Any of the numbers in the phonebook can be assigned to any of the programmable keys.

Feature

It enables user to use provided features by a single key.

Provided features are listed below:

- Call Diversion
- Change tag
- Do not disturb
- Night mode
- Call pick up
- Call back
- Phone lock

One of the features in the list is selected by using left and right navigation keys. Then, on 'DSS Key:' field, user should press the key for a short time to select the first function or a long time to select the second function of the key. The assignment will be confirmed by pressing 'OK'.

Call Diversion; If this key is pressed and number of an extension is entered, forwarding to that extension is actualized and then red LED lights. If it is pressed again, the forwarding is cancelled and the LED goes out.

Change Label; This key is used to display the second function of the keys on the LCD of the DSS3L-24 module for a short time. (This key is not usable for DSS3K-24 module.) Since the Change Label is a special key, it has only one function so user can not program any feature for the other function of the key. While programming this key, if there is another feature assigned before it will be deleted and new feature will be programmed.

Do Not Disturb; While the telephone is on hook, if this key is pressed it puts the extension into the "Do Not Disturb" mode. In that case, telephone rings once when the extension is called. If it is pressed again the "Do Not Disturb" service is cancelled. The corresponding red LED is on while it is active, and goes out when it is cancelled.

Night Mode; The used mode (Day or Night) can be seen through the LED of the key. It can be employed only through the telephone that has been defined as the operator. The phone puts the system into the Night Mode when this key is pressed by the operator. The red LED turns on if night mode is active. If the key is pressed by the operator again it puts the system back into the Day Mode and the LED goes out.

Call Pick Up; When a user is busy or in a conversation, the incoming internal or external call can be taken by pressing this key and at that time the first line is parked.

Call Back; 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 the telephone is on hook and the LED goes out.

Phone Lock; If this key is pressed and a password is entered, the telephone will be closed for external calls. The telephone will be opened for external calls again, if the procedure is repeated. The corresponding red LED is on while the telephone is locked and goes out when it is unlocked.

Feature Code

By this menu, user can assign any of the feature codes of the system to DSS keys. It enables user to use system features with pressing a single key.

Private Pool

As you can program the most frequently used 9 numbers to the private pool of your telephone, you can program this private pool numbers to any of the programmable DSS keys.

Common Pool

The 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.

AUTO SETTINGS

It is possible to program DSS keys together automatically. First functions of the keys are programmed in the order easily starting from the initial value that is entered through this menu. (If any of the first function is assigned before, it will be deleted after auto adjust process.)

DELETE KEY

It enables user to delete assignment on a key.

DELETE ALL KEYS

It enables user to delete assignments on all keys.

SERVICE SETTINGS

Submenu titles of SERVICE SETTINGS:

- Call Diversion
    - Unanswered/Busy/Busy+Unanswered/Unconditional
    - Active/Inactive
    - Extension/Line/All Calls
    - Day/Night/All Day
- Reminder
    - With Message
    - Without Message
    - Alarm
- Do Not Disturb
- Hide My Number
- COLR
- On Line
- Background Music

CALL DIVERSION

An extension can make calls coming to his telephone ring at another extension, thanks to this feature. This facility offers some options to control forwarding of calls based on following conditions: Operation mode of the system, nature of the calls and phone status.

Unanswered/Busy/Busy+Unanswered/Unconditional: Any of these options is selected to determine the phone status for diversion.

Active/Inactive: By this option, the diversion can be activated or cancelled.

Extension/Line/All Calls: Any type of calls is selected to divert by this option.

Day/Night/All Day: Any of these options is selected to determine the system operation mode of diversion.

NOTE: The user is informed about the existing call diversion by the related icon and 'Active Services' list on the screen. The existing call diversion is also seen in this menu, too.

REMINDER

Rem. With Message: Following the entry of the reminder time in "HH:MM" format, after pressing "OK" key, a message with maximum duration of 30 seconds can be recorded. When the message is finished by using related soft key, the reminder becomes active. It can be cancelled through the 'Active Services' list on the screen. There cannot be more than one reminder, at the same time. Thus, in case there is also an existing reminder (with message) if a new one is entered, the old reminder will be cancelled.

Rem. 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 "HH:MM" format. There cannot be more than one reminder, at the same time. Thus, in case there is also an existing reminder (without message) if a new one is entered, the old reminder will be cancelled.

Alarm: By this feature, any desired note (max. 40 characters) is shown on the screen, at the time determined in the form of 'HH:MM'. Maximum 5 different alarms can be set at the same time.

DO NOT DISTURB

Activate: When this option is selected, telephone rings once for an incoming call.

Deactivate: When this option is selected, Do Not Disturb mode is cancelled.

HIDE MY NUMBER

Thanks to this facility, user can hide his/her number while making a call.

Activate: The number information is not sent.

Deactivate: The number information is sent.

COLR

By this option, the number information of an NT30D phone may not be sent to the other party, in case there is a call diverted to an NT30D or an NT30D user picks up a call.

Activate: The number information is not sent.

Deactivate: The number information is sent.

ON LINE

Thanks to this feature, an extension can exclude himself temporarily from a PBX group, which he has already a member of it and include himself again.

Activate: Phone gets into the On-Line mode, so user is still in the PBX group.

Deactivate: Phone gets into the Off-Line mode, so user is not in the PBX group, anymore.

NOTE: During a PBX group call, the called extensions phone will ring, even if the extension is in off-line mode.

BACKGROUND MUSIC

Activate: By selection this option, music that has been loaded to the exchange can be listened to.

Deactivate: By selection this option, listening to music option is deactivated.

PHONE SETTINGS

Submenu titles of PHONE SETTINGS:

- Sounds
    - Microphone Levels
        - HF Microphone
        - Handset Microphone
    - Alerts
    - Key Sound
- Ring
    - Volume Level
    - Ring Tone (Type 0-5)
- General
    - Headset
    - My Shortcuts
        - Define Menu Shortcut
        - Delete Shortcut
        - Function Key
    - Enblock
    - Call Answer
    - Quick Transfer
    - Welcome Message
    - Version
    - Unit Price
    - Currency
    - Area Code
    - Line Access Code
    - Metering Pulse Info
- Security
    - Password
    - Phone Lock
- Screen
    - Contrast
    - Brightness
    - DSS Contrast*
    - DSS Brightness *
- Menu View (Symbol/Text)
- Factory Settings

* (Appears only when there is a DSS3L-24 module.)

SOUNDS

Microphone Levels

Microphone volume levels can be increased / decreased through this menu. By using the navigation keys desired volume level is selected within the range of 0-7. By using the 'OK' key, desired level can be selected.

HF Microphone: By this option, the outgoing volume level in handsfree conversations is selected.

Handset Microphone: By this option, the outgoing volume level in conversations with handset is selected.

Alerts

Activate: When this option is selected, a special alert tone is received for an incoming call, in case the phone is busy.

Deactivate: The alert sound is cancelled through this option.

Key Sound

Activate: The key sound is activated.

Deactivate: The key sound is cancelled.

RING

Volume Level

Ring volume level can be determined within the range of 0-20 through this menu. The current volume level can be seen on the screen when the menu is entered. Right and left navigation keys are used to move between the levels. As the volume level selection change, the existing ring tone is played to let the user listen. By using the 'OK' key desired volume level can be selected. If the menu is exited by using the 'Cancel' option, the level setting done is not saved.

Ring Tone

Ring Tone can be determined out of 6 alternatives through this sub-menu. By using the navigation keys user can move between the tones, by pressing 'OK' key the new tone is played to let the user listen. To activate the new tone, after listening the tone, the "Accept" key must be pressed. (Pressing the 'Accept' key is not enough to select the new tone. For activate the tone, user must listen it before by using 'OK' key.)

GENERAL

Headset

Activate: By this option Headset is activated.

Deactivate: By this option Headset activation is cancelled.

When the headset is active, the telephone is picked up through the headset while it is on hook by pressing the 'Handset / Headset ⌜○ ⌝' key. If the handset is lifted up during the conversation with headset, voice is divided into two, so volume decreases.

NOTE: In order to facilitate the headset utilization "Call Answer" can be selected as 'Automatic'.

My Shortcuts

Thanks to this feature, you can program most frequently used NT30D menus to the 6 shortcut keys on the right of the screen.

Define Menu Shortcut: Any of the listed menus can be programmed to the one of the shortcut keys. If a menu is assigned to any shortcut key before, it is not shown on the list. (If this menu is wanted to be assigned to another shortcut key, first the existing assignment must be deleted, then the new assignment should be done.)

Delete Shortcut: By this option any of the key assignments can be deleted.

Function Key: One of the features listed can be assigned to the 'FUNCTION' key on the phone, by this option. Thus, the features can be activated / deactivated by using a single key only. The features can be assigned to 'FUNCTION' key are as follows:

- <Empty> (appears if there is a function assigned before.)
- Enblock
- Hide My Number
- COLR
- Do Not Disturb
- On Line
- Background Music
- Key Sound
- Night Mode (appears only in the operator phone)

NOTE:
- The existing assignments of the shortcut keys can be seen through the 'My Shortcuts' list on the screen by using 'OK' key.
- During the assignment, any shortcut key selection can not be done. The assignments are made, respectively, starting from the one at the bottom.

Enblock

When Enblock facility is not used, the handsfree mode of the telephone is activated through the first key pressed when it is on hook and each digit is transmitted one by one. On the other hand, while Enblock facility is used, the telephone can be picked up only after the entire digits are dialed and they are transmitted in a block.

Activate: Enblock facility is activated.

Deactivate: Enblock facility is cancelled.

Call Answer

By this menu, the answering type of incoming calls can be selected.

First Call: By this option, the first incoming call is answered. It is enough to lift the handset up or use the Speaker key (or Handset/Headset key if the headset is being used) to answer an incoming call. (This is the general use of standard phones.)

Selective: By this option, the call selected from the incoming calls list is answered. After lifting the handset up or using the Speaker key (or Handset/Headset key if the headset is being used), the incoming calls list must be entered by pressing 'OK' key. The conversation begins if any desired call is selected from the list. (Even if there is only one incoming call, the same process should be made to answer this call.)

Automatic: By this option, in case there is an incoming call, it is automatically answered. The phone gets into the handsfree mode, after it has been rang once. If the headset is being used, the call will be answered through the headset, instead of the handsfree speaker. (So this option can also be used to facilitate the use of headset.) In case the other party terminates the conversation, the phone automatically gets into the idle mode. But, if the handset or headset is being used, instead of the handsfree speaker, the internal dial tone will be heard through the handset / headset.

Quick Transfer

Thanks to this feature, during the transfer operation, even if there are more then one calls on the park list, the last parked call can be used directly (without the need for choice).

Welcome Message

By using this menu the maximum 25 characters welcome message seen on the screen can be changed. (Uppercase / lowercase key transition can be made by related soft key.) Content of the welcome message is 'KAREL' by default.

Version

By this menu option, one can reach version information of the exchange and the telephone set.

Software Version: E.g. AAA_11_040310

System Version: E.g. IPV2.90.8. 1

Unit Price

By this feature, price based on the credit information can be seen on the display of NT30D in line conversations, which the line pricing program was entered.

This menu can be used to determine the maximum 7 digits (2 digits for decimal values) unit price information considered to correspond to one credit.

Currency

This menu can be used to determine the currency (of 4 characters) used in the pricing information. (Entry of a currency can be performed using only capital letters.)

Area Code

With this facility, the city code is entered to the phone memory and the number without the city code is seen on the called extension phone display when the calling is long distance or unanswered.

When the facility is selected, there is a cursor which supplies maximum 6 digits to be entered displayed on the screen. With this cursor the desired "Area Code" is entered and then it is confirmed in order to be saved into the memory of the phone. The existing area code will be shown on the display when the "Area Code" menu is entered.

If any number, within the defined home area code, is dialed only the number without the area code is displayed on the screen.

Line Access Code

When the facility is selected, there is a cursor which supplies maximum 6 digits to be entered 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. The existing line access code will be shown on the display when the "Line Access Code" menu is entered.

With this facility, the number information of the call will come with the information of the line access code, which has been defined before.

Metering Pulse Info

Activate: The feature is activated.

Deactivate: The featured is cancelled.

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.

Password

Password Definition: (If there is not a password defined before.) A password is defined by this option.

Change Password: The existing password can be changed by this option. First the old password is entered and confirmed then the new one is entered. After that the new password is activated. (The password is cancelled if a new one is not entered before exiting the menu.)

Delete Password: By this 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

Phone Lock: By entering the password, password query before line access is provided.

Phone Unlock: (Appears only if the phone is locked before.) The phone is unlocked by entering the password.

SCREEN

Contrast

By this menu option the contrast of LCD display can be set within the range of 0-14.

Brightness

Brightness setting of LCD display can be done through this option.

DSS Contrast

(Appears only while the DSS3L-24 module is being used.) By this menu option the contrast of DSS display can be set within the range of 0-14.

DSS Brightness

(Appears only while the DSS3L-24 module is being used.) Brightness setting of DSS display can be done through this option.

MENU VIEW

Symbol: Menu names are shown with symbols.

Text: Menu names are shown with text (like sub-menus).

FACTORY SETTINGS

By this option phone can be returned to the Factory Settings. Before this operation, the user is requested for confirmation. This operation deletes the assignments of Shortcut Keys. Nevertheless the phone book entries and the assignments of DSS modules are not deleted.

USB

Submenu title of USB:

- Software Update

SOFTWARE UPDATE

By this feature you can update the software of your phone. After you have activated this feature, make the connection of your telephone. First you must erase the old software and then download the new one through the PC interface program. (Software updating does not delete the phone book entries and the assignments of DSS modules.)

SYSTEM SETTINGS

(This menu appears only in the operator phone.)
Submenu titles of SYSTEM SETTINGS:

- Time

- Date

- Night Mode

TIME

In this menu, the display cursor enables data entry and the user is required to enter the system time in 24-hour format. As the operator enters the hour and (in **HH:MM** format), the character ":" automatically appears on the display. 'OK' key is used to confirm the entered time.

DATE

In this menu, the display cursor enables data entry. As the operator enters the day and the month (in **DD/MM/YY** format), the character "/" automatically appears on the display. 'OK' key is used to confirm the entered date.

NIGHT MODE

Activate: The exchange is taken into the night mode.
Deactivate: The exchange is taken out of the night mode.

ACCESSORIES

DSS3K-24

DSS3L-24module is designed as Direct Station Select module for NT Series telephones. It facilitates extension / line / feature access by single key touch. Those keys are also used to monitor status of extensions/lines by their LED functions.

DSS3K-24

DSS3K-24 consists of key pad. There are 24 programmable keys and a LED for each key. Functions of the keys can be followed by related LED.

For more information about the DSS3K-24 please look at NT Series DSS Technical Reference and User Guide.

DSS3L-24

DSS3L-24module is designed as Direct Station Select module for NT Series telephones. It facilitates extension / line / feature access by single key touch. Those keys are also used to monitor status of extensions/lines by their LED functions.

DSS3L-24

DSS3L-24 consists of key pad. There are 24 programmable keys and a LED for each key. Functions of the keys can be followed by related LED and also by the LCD display of the module.

For more information about the DSS3L-24 please look at NT Series DSS Technical Reference and User Guide.