

9. USER MANUAL

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Initial display

1.1 Display

- LCD resolution of TDC-8020 : 128 x 80

Other models may have different one.

- LCD resolution level should be more than 5 x 16 lines.
- All text display lines up from the right side and all number display does from the left side.

- All headers are displayed in Bold font.

1.2 TDC-8020

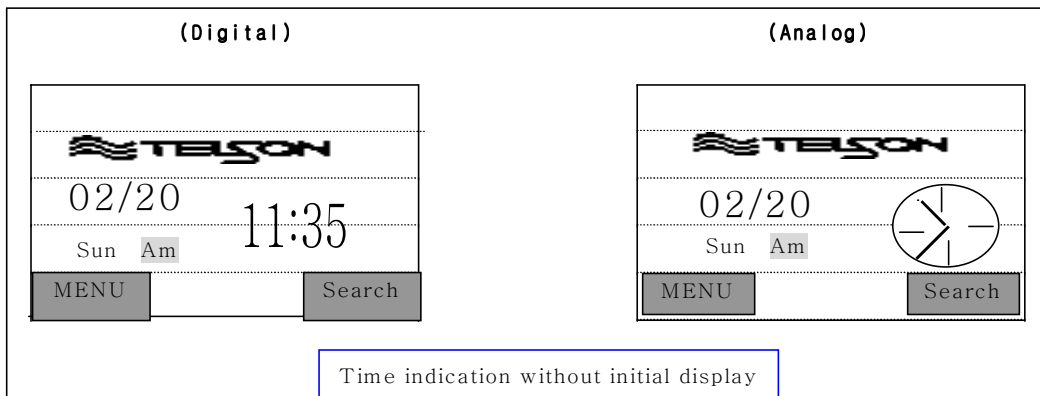
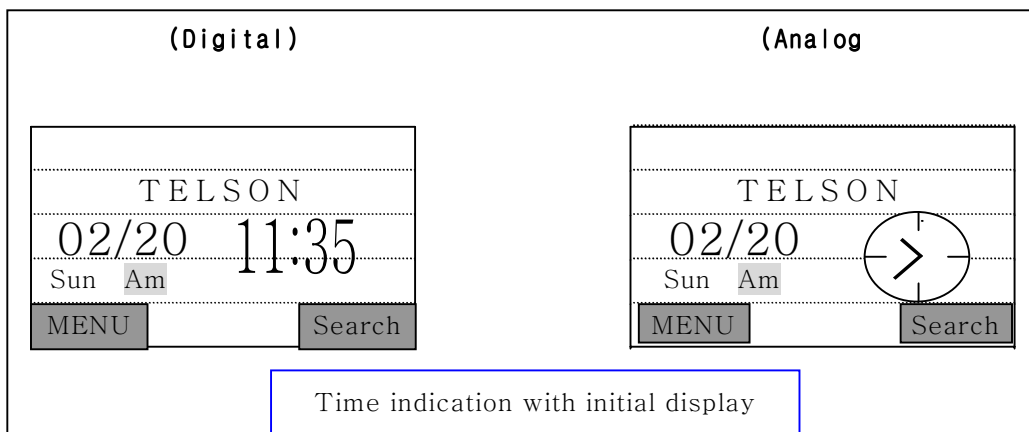
- Use 16 x 16 pixels in Korean and 8 x 16 pixels in English.
- Support 5 x 16 Lines
- Display messages from the first line.
- Softkey method.
- Display Status Icons in Call and Idle Modes only.

1.3 Power-on Banner

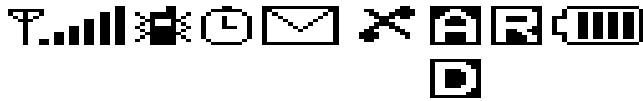
Power is turned on by pressing [Power] key. User's own phone number is displayed first and the animated power-on image is followed.

1.4 Idle Mode

- The 1st line of LCD display is allocated to the icons that indicates the status and 2nd line is allocated to the banner (greeting) that user arranges.
- Indication of time in idle mode is supported by both digital and analog types.



1.5 Definitions of icons

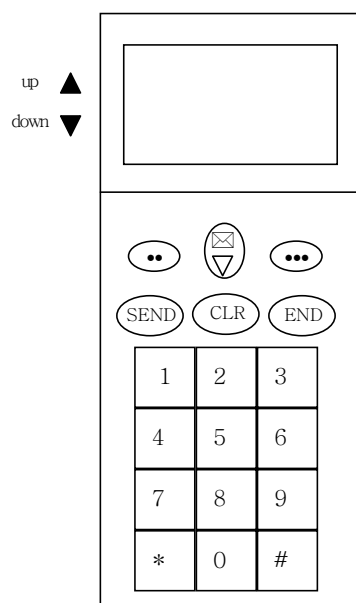


- Signal strength
More signal bars mean stronger signal.
 - Vibrate
Indicate vibrating mode
 - Alarm
 - Message
Display when a message has arrived.
 - Out of service
Indicate that the phone is not located in a service area and cannot send or receive a call.
 - Digital/Analog mode.
 - Service area.
 - Setting lock mode
This restricts the use of the phone as one of the security options.
 - Battery power. Show power level of battery.
- Status icons are not displayed in menu display mode.
- Status Icons are displayed in the call and idle modes.

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1.6 Keypad layout

Keypad layout consists of number 1~9 key buttons, *, #, CLEAR, SEND, END, MSG, NEXT keys and Side keys which are DOWN & UP keys.



- SEND : Make or answer a call
- END : Turn power on/off and end a call.
- ▲▼ : Search menu by scrolling
 - Pressing and holding ▲ key leads to lock mode.
 - Pressing and holding ▼ key leads to silent mode.
- CLR : Erase texts and numbers from display. Return to previous menu in menu setting mode.
- SIDE KEY (UP / DOWN) : Search menu by scrolling and adjust volume levels.
- ✉ : Enter to MSG menu.
- ▼ : Enter to WAP.

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1.7 Function of keys

Key	Mode	Function
SEND	IDLE	. Make a call when phone number is entered and SEND key is pressed. . If phone number is not entered, pressing SEND key makes a call to phone number of last call. . Answer an incoming call.
	CAL L	. Make a call when phone number is entered and SEND key is pressed. (3 way calling) . If phone number is not entered, key input is ignored.
	MEN U	. Close current menu and make a call. . Make a call to phone number of last call.
END	IDLE	. Returns to idle mode. . Answer an incoming call. . Pressing and holding the key works as power on/off key.
	CAL L	. Return to idle mode after ending a call. . Pressing and holding the key works as power on/off key.
	MEN U	. Return to idle Mode . Pressing and holding the key works as power on/off key.
PF1	IDLE	. Work according to softkey operation. . Work as a menu key in TDC-8020. . Answer an incoming call.
	CAL L	. Work according to softkey operation. . Enter to call menu in TDC-8020.
	MEN U	. Work according to softkey operation. . Work as a cancel key in TDC-8020.
PF2	IDLE	. Work according to softkey operation. . Work as a menu search key in TDC-8020. . Answer an incoming call.
	CAL L	. Work according to softkey operation. . Work as a menu search key in TDC-8020.
	MEN U	. Work according to softkey operation. . Work as a select key in TDC-8020.
CLR	IDLE	. Erase number one by one digit when pressing the key. . Pressing and holding the key erases whole number and leads to idle mode.
	CAL L	. Answer an incoming call.
	MEN U	. Work as a backspace key.
Number 0~9 keys	IDLE (CAL L)	. Work as a number edit key. . Work as a texts input key in language edit mode. . Answer an incoming call (Only when flip is open.) . Pressing and holding a key makes a call to the stored phone number to each key as a short cut.
	MEN U	. Select the designated item. (No action if there is no designation)
Star key	IDLE (CAL L)	. Work as '*' key. . Answer an incoming call. . Pressing and holding the key leads to silent mode. (When flip is open.)
	MEN U	. Scroll up menu upward.
Pound key	IDLE (CAL L)	. Work as '#' key in edit mode. . Answer an incoming call. . Pressing and holding the key leads to lock mode. (When flip is open.)
	MEN U	. Scroll up menu downward.

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DOWN key	IDLE (CAL L)	. Adjust voice volume level in call mode. . Adjust key tone level in idle mode. . Move cursor in edit mode. . Answer an incoming call. . Pressing and holding the key leads to silent mode. (When flip is closed.)
	MEN U	. Scroll up menu downward.
UP key	IDLE (CAL L)	. Adjust voice volume level in call mode. . Adjust key tone level in idle mode. . Move cursor in edit mode. . Answer an incoming call. (Regardless condition of flip) . Pressing and holding the key leads to lock mode. (When flip is closed.)
	MEN U	. Scroll up menu upward.
MSG key	IDLE	. Enter to MSG menu. . Work as hard pause during inputting numbers.
	MEN U	. Scroll up menu upward.
WAP key	IDLE	. Enter to WAP mode. . Work as time pause during entering numbers.
	MEN U	. Scroll up menu upward.

1. Call Info

Store the call-related information. It covers low-ranking menus such as outgoing list, incoming list, erase logs and call time.

1. Enter Menu : Press [MENU]

2. Enter Call Info : Press [1]

1.1. Outgoing List

3. Begin outgoing list : Press [1]

4. View outgoing list : Select a receiver in outgoing list and press OK key.

5. View the time and number : Display call transmission time and phone number.

6. Exit Menu : Press END key or close flip.

1.2. Incoming List

3. Begin incoming list : Press [2]

4. View the incoming list : Select a caller in incoming list and press OK key.

5. View the time and number : Display call receiving time and phone number.

6. Exit Menu : Press END key or close flip.

1.3 Erase Logs

Erase contents of incoming and outgoing lists in optional way.

3. Enter erase logs : Press [3]

1.3.1 Outgoing

4. Enter to erase the outgoing list : Press [1]

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5. Erase outgoing list : Select 'Yes' and press [OK] key.
6. Exit Menu : Press END key or close flip.

1.3.2 Incoming

4. Enter to erase outgoing list : Press [2]
5. Erase incoming list : Select 'Yes' and press [OK] key.
6. Exit Menu : Press END key or close flip.

1.4 Air Time

Indicate call time and number of calls.

3. Enter to Air Time : Press [4]

1.4.1 Last Call Time

Indicate duration of last call.

4. Begin last call time : Press [1]
5. View last call time
6. Exit Menu : Press END key or close flip.

1.4.2 Total call

Indicate the number and total duration of all calls.

4. Begin total call: Press [2]
5. View total call time and calls
6. Exit Menu : Press END key or close flip.

2. Scheduler (PIM)

Manage user's personal schedule.

1. Enter Menu : Press [menu]
2. Enter phone book : Press [2]

2.1 Today

Indicate schedule of today.

3. Begin today : Press [1]
4. View schedule list : Show the schedule of selected date. Press [add] key to add items in schedule.
5. Add scheduler : Display "Add Scheduler"
6. Exit Menu : Press END key or close flip.

2.2 Calendar

Search calendar and check schedule of specific month.

3. Begin calendar : Enter the month/year and press [ok] key.
4. View calendar : Select the date and press [View] key.

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5.View list of Scheduler : View schedule of specific month/year.

6. Exit Menu : Press [END] key or close flip.

2.3 To Do List

Add items (Anniversary, Schedule) to scheduler.

3. Begin to do list : Press [3]

4.Select kind of Scheduler : Select one of two (Schedule or Anniversary) and press OK key

5. Add entry : Display 'Add Entry'

6. Exit Menu : Press [END] key or close the flip.

2.4 Erase past records

Erase past records and Anniversary.

3. Begin to do list : press [4]

4. Select kind of Scheduler : Select one of two (Schedule or Anniversary) and press OK key.

5.Erase Scheduler : Select 'Yes' and press [ok] key.

6.Exit Menu : Press [END] key or close flip.

2.5 Add Scheduler

2.5.1. Schedule

3.Select kind of schedule : Select one of two (Schedule or Anniversary) and press [ok] key.

4.Enter Schedule : Input time and press [ok] key.

5.Enter entry : Input contents and press [ok] key.

6.Set Alarm : Set alarm and press [ok] key.

7.Exit Menu : Press [END] key or close flip.

2.5.2. Anniversary

3.Select kind of schedule : Select one of two (Schedule and Anniversary) and press [ok] key.

4.Enter entry : Input contents and press [ok] key.

5.Set alarm : Set alarm and press [ok] key.

6.Exit Menu : Press [END] key or close flip.

2.6. World Time

Display present time of various countries in the world.

3. Begin world time : Press [5]

4.View list of city : Select City and press [ok] key.

5.View location and time of city

6.Exit Menu : Press [END] key or close flip.

2.7 Alarm

Set alarm to ring at specific time.

3. Begin alarm : Select 'Yes' and press [ok] key.

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4. Enter time : Input time and press [ok] key.
5. Set alarm alert : Select one of two options (Daily or One time) and press [ok] key.
6. Select melody : Select a melody and press [ok] key.
7. Exit Menu : Press [END] key or close the flip.

3. Ring / Tone

1. Enter Menu : Press [menu]
2. Enter Phone Book : Press [3]

3.1 Ring/Vibrate

Select alert type of incoming call.

Bell, Vibrate and Vibrate then Bell are available.

3. Begin ring type : Press [1]
4. Select ring type : Select type and press [ok] key.
5. Exit Menu : Press [END] key or close flip.

3.2 Ring type

Select ring type.

3. Begin ring type : Press [2]
4. Select ringer type : Select ring type and press [ok] key.
5. Exit Menu : Press [END] key or close flip.

3.3 Designate Ring

Set phone number and ring type of frequent caller if caller ID display service is available.

3. Begin ring type : Press [3]
4. Select group or number : Select Group or phone number and press [ok] key.
5. Select a caller or phone number and press [ok] key.
6. Exit Menu : Press [END] key or close flip

3.4 Minute alert

Indicate every 1 minute by beep sound before 10 seconds during call.

3. Begin Minute alert : press [4]
4. Select On/Off : Select on or off and press [ok] key.
5. Exit Menu : Press [END] key or close flip

3.5 SVC area alert

Alert when cellular service for the phone is switched.

3. Begin SVC area alert : Press [5]
4. Select On/off : Select on or off and press [ok] key.
5. Exit Menu : Press [END] key or close flip

3.6 Connect Tone

Indicate connection to the network gets successful.

3. Begin SVC area alert : Press [6]
4. Select On/Off : Select on or off and press [ok] key.
5. Exit Menu : Press [END] key or close flip

3.7 Disconnect Tone

Indicate disconnection during call.

3. Begin SVC area alert : Press [7]
4. Select On/Off : Select on or off and press [ok] key.
5. Exit Menu : Press [END] key or close flip

3.8 Key tone Length

Adjust key tone level.

3. Begin SVC area alert : Press [8]
4. Select Long/Short : Select Long/Short and press [ok] key
5. Exit Menu : Press [END] key or close flip.

4. Display

1. Enter Menu : Press [menu]
2. Enter phone book : Press [4]

4.1 Back Lighting

Control backlight of LCD display and keypad.

3. Begin backlight: press [1]
4. Select item : Select item and press [ok] key.
5. Exit Menu : Press [END] key or close flip.

4.2 Greeting

Set greeting message to be displayed during initial display.

3. Begin greeting : press [2]
4. Enter edit mode : Input texts using keypad and press [ok] key.
5. Exit Menu : Press [END] key or close flip.

4.3 S/W version

Display software version of the phone.

3. Begin S/W version: press [3]
4. View S/W version : Press [detail] key
5. Display the date that software is made.

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6. Exit Menu : Press [END] key or close flip.

4.4 Auto Hyphen

Set insertion of hyphen between numbers automatically during dialing.

3. Begin auto hyphen : press [4]

4. Select item : Select item and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

4.5 Language

Select language.

3. Begin language : press [5]

4. Select language : Select language and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

4.6 My own phone #

Display user's own phone number.

3. Begin my phone # : press [6]

4. View the phone Number

5. Exit Menu : Press [END] key or close flip.

4.7 Timer Format

Set display type of time. (Digital or Analog)

3. Begin timer format : press [7]

4. Select analog or digital : Select Analog or Digital and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

5. Setting

1. Enter Menu : Press [menu]

2. Enter Phone Book : Press [5]

5.1 Auto Receive

Enable phone to answer incoming call automatically after 3 rings.

3. Begin auto receive : press [1]

4. Set the on/off : Select On/Off and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

5.2 Security

1. Enter Menu : Press [menu]

2. Enter Phone Book : Press [6]

3. Enter Lock code : Enter lock code.

5.3 Lock Mode

Set lock.

Access menu in the lock mode, user has to enter unlock code when lock mode is set.

4. Begin auto receive : press [1]

5. Set on/off : Select On/Off and press [ok] key.

6. Exit Menu : Press [END] key or close flip.

5.4 Restrict

Set restriction

3. Enter restrict: press [2]

5.4.1 Phone Book restrict

Restrict the use, storage and search of phone book.

3. Begin phone book restrict: press [1]

4. Set on/off : Select On/Off and press [ok] key

5. Exit Menu : Press [END] key or close flip.

5.4.2 Scheduler restrict

Restrict the use, storage and search of scheduler.

5. Begin scheduler restrict: press [2]

6. Set on/off : Select On/Off and press [ok] key.

7. Exit Menu : Press [END] key or close flip.

5.4.3 Outgoing restrict

Restrict making a call.

5. Begin outgoing restrict: press [3]

6. Set on/off : Select On/Off and press [ok] key.

7. Set on/off : Select On/Off and press [ok] key.

5.5 New Lock Code

Change lock code.

4. Begin new lock code : press [3]

5. Enter lock code

6. Enter new Lock code : Enter New lock code and press [OK] key.

7. Re-enter New Lock code : Enter New Lock code again and press [OK] key.

8. Exit Menu : Press [END] key or close flip.

5.6 Emergency Call

Enable user to make a specific call though phone is locked or outgoing calling is restricted.

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4. Begin emergency number : press [4]
 5. Enter emergency edit mode : Press [edit] key.
 6. Enter emergency call number : Enter emergency phone number and press [ok] key.
7. Exit Menu : Press [END] key or close flip.

5.7 Send PIN

4. Begin Send PIN: press [5]
5. Select On/Off : Select On/Off and press [ok] key.
6. Exit Menu : Press [END] key or close flip.

5.8 Clear Memory

Erase the stored contents of phone book and scheduler.

4. Enter clear memory : Press [6]

5.8.1 Phone Book

Erase contents of phone book.

5. Begin clear phone book : press [1]
 6. Select On/Off : Select On/Off and press [ok] key.
 7. Exit Menu : Press [END] key or close flip.

5.8.2 Scheduler

Erase contents of scheduler.

5. Begin clear scheduler: press [2]
 6. Select On/Off : Select On/Off and press [ok] key.
 7. Exit Menu : Press [END] key or close flip.

5.9 Reset

Reset phone to original condition as factory setting.

4. Begin clear scheduler: press [7]
5. Select On/Off : Select On/Off and press [ok] key.
6. Exit Menu : Press [END] key or close flip.

6. SMS menu

6.1 In-box

1. Enter Menu : Press [MSG]
2. Enter phone book : Press [1]

6.1.1 Text MSG

Display and store text messages.

3. Begin text MSG : Press [1]

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4. View message list : Select message and press [ok] key.

5. View message

6. Exit Menu : Press [END] key or close flip.

6.1.2 Voice MSG

Indicate the receipt and number of voice MSG's.

3. Begin text MSG : Press [2]

4. View VMN Message

6. Exit Menu : Press [END] key or close flip.

6.1.3 Erase MSG

Erase text messages.

3. Begin Erase MSG : Press [3]

4. Confirm erasing and press [OK] key .

5. Exit Menu : Press [END] key or close flip.

6.2 Send message

Arrange and send message.

1. Enter Menu : Press [MSG]

2. Enter send message : Press [2]

3. Enter receiver's phone number : Enter receiver's phone number and press [OK] key.

4. Enter sender's phone number : Enter sender's phone number and press [OK] key.

5. Arrange message : Arrange message and press [ok] key.

6. Confirm transmission and press [OK] key .

7. Exit Menu : Press [END] key or close flip.

6.3 Setting

1. Enter Menu : Press [MSG]

2. Enter setting : Press [3]

6.3.1 MSG alert

Alert receipt of message and set the alert type.

3. Begin MSG arriving alert : Press [1]

4. Set the alert type : Select alert type and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

6.3.2 MSG Display

Set display type of message.

3. Begin display message : Press [2]

4. Set display type of message. : Select display type of message and press [ok] key.

5. Exit Menu : Press [END] key or close flip.

7. Recall Menu

7.1 Phone Book

1. Enter Menu : Press [RCL]
2. Enter phone book : Press [1]

7.1.1 Find Name

Search the name and enable user to select correct phone number that matches input texts.

3. Begin find name : press [1]
4. Enter name : Input name and press [OK].
5. View List : Search and locate the name using ▼ or ▲ key, then press [view] key.
6. View entry : Display the phone number and its content of the selected name.
7. Edit entry : Display “Edit Entry”
8. Exit Menu : Press [END] key and close the flip.

7.1.2 Find Location

Search and find the Location in the phone book according to entry.

3. Begin search location : Press [2]
4. Find location : Enter entry and press [ok].
5. View list : Display the list. Press [view] key using ▼ or ▲ key.
6. View entry : Display the phone number and its content of the chosen name.
7. Edit entry :
8. Display “Edit Entry” : Edit the entered contents.
8. Exit Menu : Press [END] key or close the flip.

7.1.3 Find Group

Search the phone book along the registered group name. Group name is sorted when phone book is stored.

3. Begin search group: Press [3]
4. View group list : Press [view] key using ▼ or ▲ key.
5. View member : Find the location using ▼ or ▲ key and press [view] key.
6. View Entry : Display the phone number and its content of the chosen name.
7. Exit Menu : Press [END] key or close the flip.

7.1.4 Add Entry

Store the phone number.

3. Begin adding entry: Press [4]
4. Enter location : Enter and press [ok].
5. Enter name : Input the name and locate the preferred phone number using ▲ or ▼ key.
6. Store number : Input phone number and press [save] key.

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7. Save mode : Display save Mode
8. Exit Menu : Press [END] key or close the flip.

7.1.5 Edit Group

Add, delete and edit group name and when phone number is stored.

3. Enter edit group: Press [5]

7.1.5.1 New Group

4. Begin new group : Press [1]
5. Enter name of group : Enter name of group and press [ok] key.
6. Exit Menu : Press [END] key or close the flip.

7.1.5.2 Change Group

4. . Begin changing group : Press [2]
5. View group list : Select the group and press [EDIT] KEY.
6. Edit group name : Edit group name and press [ok] key.
7. Exit Menu : Press [END] key or close the flip.

7.1.5.3 Delete Group

4. Begin new group : Press [3]
5. View group list : Select the group and press [Del] KEY.
6. Exit Menu : Press [END] key or close the flip.

Edit Number

1. Select item : Select phone number and press [EDIT] KEY.
2. Enter number : Input phone number and press [ok] key.
3. View entry : Check out the input and press [save] key.
4. Exit menu : Press [END] key or close the flip.

Save Mode (Phone Book)

1. Enter Entry : Input phone number and press [save] key.
2. Select main number : Select main number and press [ok] key.
3. Assign group : Select group and press [ok] key
4. Exit menu : Press [END] key or close the flip.

7.1.6 Book Status

Display storing status of phone book. Display current status of all entry.

3. Begin book status : Check out the number of locations which are in use and available, then press [ok] key.
4. Exit Menu : Press [END] key or close the flip.

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7.2 Schedule

Search the contents of scheduler.

1. Enter Menu : Press [rcl]
2. Enter scheduler: Press [2]

7.2.1 Find Date

3. Begin search date : Press [1]
4. Enter date : Input date and press [ok] key.
5. View schedule list : Display the stored schedule of the designated date.
6. Exit menu : Press [END] key or close the flip.

7.2.2 Find content

3. Begin search date : Press [2]
4. Enter content : Input text and press [ok] key.
5. View Schedule List : Display the contents of schedule.
6. Exit menu : Press [END] key or close the flip.

8. Call Menu

Available menus that are available during conversation.

8.1 Send owner's phone number

1. Enter Menu : Press [menu]
2. Enter to send owner's phone number : Press [1]
3. View own number : Press [send] key
4. Exit menu : Press [END] key or close the flip.

8.2 Mute

Mute during conversation.

1. Enter Menu : Press [menu]
2. Enter mute: Press [2]
3. Exit menu : Press [END] key or close the flip.

8.3 Phone Book

Search the contents of phone book.

1. Enter Menu : Press [menu]
2. Enter phone book : Press [3]

8.3.1 Find Name

3. View search Name in RCL menu

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4. Send DTMF : Press [send] key.
5. Exit menu : Press [END] key or close the flip.

8.3.2 Find Location

3. View search location in RCL menu
4. Send DTMF : Press [send] key.
5. Exit menu : Press [END] key or close the flip.

8.3.3 Find Group

3. See find group in RCL menu
4. Select number : press [VIEW]key
5. Send DTMF : Press [send] key.
6. Exit menu : Press [END] key or close the flip.

8.4 Scheduler

Search the contents of scheduler.

1. Enter Menu : Press [rcl]
2. Enter scheduler: Press [2]

8.4.1 Find Date

3. Begin search date : Press [1]
4. Enter date : Input date and press [ok] key.
5. View schedule list : Display the stored schedule of the designated date.
6. Exit menu : Press [END] key or close the flip.

8.4.2 Find content

3. Begin search date : Press [2]
4. Enter content : Input text and press [ok] key.
5. View schedule list : Display the contents of schedule.
6. Exit menu : Press [END] key or close the flip.

9. Service program menu

1. Enter Menu : Press # + # + * + * + T + E + S + T + M + O + D + E

9.1 Test Mode

Set testing mode of the phone.

2. Enter Menu : Press [1]
 3. Enter number : Input 1/2 according to ending digit along On/Off condition.
- Ex) 0, dial No (1), 1 : CDMA Mode
0, dial No(1), 0 : AMPS Mode

TEST MODE TABLE 1.1

No.	Function	No.	Function
000/001	Mode reset	060/061	SAT On/Off
010/011	Mode Select (CDMA/AMPS)	070/071	ST On/Off
040/041	Power On/Off	080/081	TX Audio On/Off
050/051	SAT Selection		

TEST MODE TABLE 1.2 (1st value : 0, 2ndly input digit, number of input 3)

No.	Function	No.	Function
130/131	TEST PA		

TEST MODE TABLE 1.3 (1st value : 0, 2ndly input digit, number of input 6)

No.	Function	No.	No
020000/ 020001	Channel Selection	030000/ 030001	AGC control

TEST MODE TABLE 1.4 (1st value : 0, 2ndly input digit, number of input 6)

No.	Function	No.	Function
HS_2_K	Test PA range value	HS_7_K	Not in use

4. Press [ok] key

5. Exit menu : Press [END] key or close the flip.

9.2 Field Service

2. Enter Menu : Press [2]

9.2.1 Test Screen

3. Enter to test mode : Press [1]

4. View phone state

5. Exit menu : Press [END] key or close the flip.

9.2.2 Test call

Test 8K, 13K Loopback call or Markov call.

3. Enter to test mode : Press [2]

4. Set test call : Press [ok]

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5. Exit menu : Press [END] key or close the flip.

9.2.3 Deleting ERR

Delete the contents of ERR list

3. Enter to test mode : Press [3]

4. ERR erase : Press [ok]

5. Exit menu : Press [END] key or close the flip.

9.2.4 ERR List

Display the contents of ERR list

3. Enter to test mode : Press [4]

4. View Err list

5. Exit menu : Press [END] key or close the flip.

9.3 NAM Mode

Set / Cancel the automatic NAM

2. Enter Menu : Press [3]

3. Select NAM mode : Press [ok] key after setting NAM mode.

4. Exit menu : Press [END] key or close the flip.

9.4 System Select

Select system among AMPS or CDMA.

2. Enter to test mode : Press [4]

3. Select AMPS or CDMA : Press [ok] key after selecting system.

4. Exit menu : Press [END] key or close the flip.