

2. Nam Programming

2. NAM Programming

2.1 Switching the NAM(Numeric Assignment Module) writing mode

If you perform NAM writing mode, you have to enter the password, '4, 7, *, 8, 6, 9, #, 0, 8, #, 9'.

Keypads using in NAM writing mode are as follows :

0~9 : numeric keys

*, # : Use to specify the variable which include several value.

VOLUME KEY : Use to switch the next item

CLR : Use to retouch a wrong digit

HOOK ON : Use to end a NAM writing mode

STO : Use to store data and switching the next function

RCL : Use to switch the last menu

Caution

If you enter the NAM program mode, the last data displays on screen. When you need not change the data, press VOLUME key to go to the next item.

You can modify the data by entering a new data. And if you enter a wrong digit, press CLR to delete the last digit.

If you enter a wrong digit in the middle of NAM entering, continue to enter the next digits. After that, check and modify the data using volume key.

While you check the data using volume, you can store the data by pressing STO key.

When you enter the NAM, as there are necessary information enter the phone number and LOCK code and press STO key.

When you enter NAM programming, display following three items.

1 GENERAL ; Display the variable used commonly NAM.

2 Setup NAM ; Display the variable of CDMA used commonly when you select NAM.

If you don't store the data by pressing STO key after modifying as explains, the data does not change. You can check the data by pressing VOLUME key without changing the data.

2-2 Explanation about each item

2-2-1 GENERAL

When swiching the next item, press volume or STO key. (When you press STO key, store entered data.)

ESN (Electronic serial number) : In Service Program, current ESN cannot be modified and entered but displayed. If you want to modify ESN, special ESN Write Program is needed. For more details, refer to 'ESN Writer manual'

CAI version (common Air Interface version) : The version of the Common Air Interface supported by the mobile. Default setting is 2, CAI Version is not reset by user.

SCM (Station Class Mark) : Station Class Mark(SCM) displays the power class, transmission, slotted, dual mode. SCM is not reset by user.

Lock Code : Default lock cord is 0000. It can be entered from 0000 to 9999.

SLOT Mode : Determine the slot mode of the mobile (using Yes-slot mode)
When changing 'YES' or 'NO', press * ◀ or ▶ #.

Slot Index : Determine the solt mode index on slot mode the mobile.
The extent of index is from 0 to 9. The bigger the index of set, the longer sleeping time. The sleeping time is longer the more power is saved. Default setting is 2.

2-2-2 Setup NAM

When you switch the next item, press volume or STO key. (If you press STO key, store the entered variable).

IMSI_MCC : Enter Mobile Country Code Default setting is 000.

IMSI_MNC : Enter Mobile Network Code Default setting is 00.

CDMA TEL NO : It is telephone number for CDMA

CDMA Pref : Select preferred system in using CDMA.

Home only, A only, A pref, B only, B pref.

CDMA ACCOLC : CDMA ACCESS OVERLOAD CLASS Default setting is 0.

Pchn Sys A : This is preferred system in using A system. OOO set 779, OOO set 0.

Pchn Sys B : This is preferred system in using B system. Default setting of OOO is 779 channel. Default setting of OOO is 486 channel.

Schn Sys A : This is the second preferred system in using A system. OOO set 738, OOO set 0.

Schn Sys B : This is the second preferred system in using B system. Default setting of OOO is 738 channel. Default setting of OOO is 568 channel.

CD Acq SID 1~CD Acq SID 6 : CDMA Acquisition SID. Enables you to set up to six SIDs. Default setting is 0, ranges from 0 to 32,767.

CD lock SID 1~CD lock SID 6 : CDMA lock SID

Enables you to set up to six SIDs.

Default setting is 0, ranges from 0 to 32767

CDMA Home SID : CDMA home SID Default setting is 'YES'.

Specify the Autonomous requisition in the home system.

SID #1 : (SID,NID) This is the first SID in using list.

NID #1 : (SID,NID) This is the first NID in using list.

SID #2 : (SID,NID) This is the second SID in using list.

NID #2 : (SID,NID) This is the second NID in using list.

SID #3 : (SID,NID) This is the third SID in using list

SID #3 : (SID,NID) This is the third NID in using list

SID #4 : (SID,NID) This is the fourth SID in using list

SID #4 : (SID,NID) This is the fourth NID in using list

SID #5 : (SID,NID) This is the fifth SID in using list

SID #5 : (SID,NID) This is the fifth NID in using list

The mobile determines the roaming status.

SID, NID list of OOOO and OOO is following

OOO : (2222, 1) (2222, 2) (2222, 3) (2222, 15) (0, 0)

OOO : (1700, 1) (1700, 2) (1700, 3) (1700, 15) (0, 0)

2-3 Setting Up NAM

LCD Display	Key in	Function
47*809#08#9	47*869#08#9	-selects NAM programming
NAM Program 1:General 2:Setup NAM	1	-choose 'GENERAL.'
ESN 800000000	Volume ▲	Electronic Serial Number of the phone.
CAI version 2	Volume ▲	The version of the Common Air Interface supported by the mobile.
SCM 01101010	Volume ▲	Station Class Mark displays the power class (bit 0~1), transmission (bit2), slotted (bit5), dual mode (bit6).
Lock Code 0000	(0000) 4-digit code STO	Four-digit number supplied by the user which enables electronic locking of the phone.
Slot Mode Yes	* or # STO	Enables slot mode.
Slot Index 2	0 - 7 STO	Slot mode index. Specifies the duration and frequency of times that the mobile checks the paging channel. The higher the value, the less often the mobile looks at the paging channel, and the more power is saved.
Pref NAM... Digital pref	* or # STO	Preferred system selection for NAM. Up to four NAMs are allowed for the phone. This lists one of the four NAMs and allows you to program both the FM and CDMA settings.

LCD Display	Key in	Function
IMSI_MCC 000	number STO	International Mobile Station Identity Mobile Country Code.
IMSI_MNC 00	number STO	International Mobile Station Identity Mobile Network Code.
CDMA TEL NO. 987654321	phone number STO	CDMA phone number.
CDMA pref. B only	* or # STO	Preferred system selection.
CDMA ACGOFC 0	class number STO	CDMA Access Overload Class. This two-digit number specifies the level of priority assigned to the mobile for accessing the system. Ranges from 0 to 15.
Pchn Sys A 0	channel number STO	Primary CDMA channel for the A carrier. Ranges from 0 to 1,023. 0 indicates no channel.
Pchn Sys B 0	channel number STO	Primary CDMA channel for the B carrier. Ranges from 0 to 1,023. 0 indicates no channel.
Pchn Sys A 0	channel number STO	Secondary CDMA channel for the A carrier. Suggested setting is 0: ranges from 0 to 1,023.
Schn Sys B 568	channel number STO	Secondary CDMA channel for the B carrier. Suggested setting is 0: ranges from 0 to 1,023.
CD Acq SID (1-6) 0	ID number STO	CDMA Acquisition System ID. Enables you to set the phone to acquire up to six SIDs in the CDMA mode. If you enter '0' for any SID, the program assumes that you have no more numbers to store. Default setting is 0: ranges from 0 to 32,767: up to six SIDs.
CD lockSID (1-6) 0	ID number STO	CDMA Lock System ID. Enable you to specify up to six SIDs that the phone will be prohibited from acquiring in CDMA mode. If all six SIDs are set to zero, no lock restrictions will be in effect and the phone can acquire all SIDs. Default setting is 0: ranges from 0 to 32,767 up to six SIDs.
CDMA HomeSID Yes	* or # STO	CDMA Home System ID. Enables the phone to allow mobile terminated calls while in the home system. Controls the types of registration allowed for the phone.

LCD Display	Key in	Function
CDMA fSID Yes	* or # STO	CDMA foreign System ID. Enables the phone to allow mobile terminated calls while in a foreign system. Controls the types of registration allowed for the phone.
CDMA fNID Yes	* or # STO	CDMA foreign Network ID. Enables the phone to allow mobile terminated calls while in a foreign system and foreign network ID. Controls the types of registration allowed for the phone.
SID #1 1700	number STO	System Identification Number. Controls how the phone acquires different systems. Determines the roaming status for the mobile. All SIDs range from 0 to 32,767: a 0 setting for the SID signifies that it is not active.
NID #1 1	number STO	Network Identification Number. Controls how the phone acquires different systems, and is set and specified in conjunction with each SID (e.g., SID #1, NID #1). Determines the roaming status for the mobile. All SIDs range from 0 to 65,535: a 0 setting for one NID signifies that it is not active.
SID #2 1700	number STO	See SID #1.
SID #2 1700	number STO	See NID #1.
SID #2 1700	number STO	See SID #1.
NID #3 3	number STO	See NID #1.
SID #4 1700	number STO	See SID #1.
NID #4 15	number STO	See NID #1.
SID #5 0	number STO	See SID #1.
NID #5 0	number STO	See NID #1.

MEMO

3. Data Transfer

3. Data Transfer program

When the main board of a customer's cellular phone is required to be replaced with a new one, or the customer is needed to use a phone lent from the service center while his phone is serviced, this feature is used to transfer(copy) all the EEPROM data of the customer's phone into the new board or the lent phone to keep the information the customer had stored into his phone personally.

3-1 Getting Started

1. Run the DTRANxx.EXE file. If you run the file for the first time, the message 'INITIAL FILE IS CREATED' appears. Do not delete the created file because the file creates DTRANxx.CFG to store environment setup data. The message does not appear once you have run the program.
2. Press any key to go to next procedure.

Function Keys

- | | |
|-------|---|
| F1 | Reads EEPROM data from the customer's cellular phone. |
| F5 | Writes the data of the customer's phone into the EEPROM on the new board. |
| ALT+X | Exits programming and returns to DOS mode. |

3-2 Operation Procedure

1. On standby mode, 'Please check the communication link between your PC and the phone prior to beginning ...' messages appear on the screen. You are ready to transfer data.
2. Switch the phone power on after you have run the program.

3. Press <F1> key to read EEPROM data from the customer's cellular phone. On screen, 'Change the mode of the phone from HANDS-FREE mode to DM mode' message appears. On the LCD display of the phone, 'AUTO TEST' and 'WRITE EEPROM' messages appear. If the phone is already in DM(Diagnostic Monitor) mode, the message does not appear.
4. After the mode is changed to DM, EEPROM data on the cellular phone is read by PC. You can monitor the reading procedure on the screen.
5. When the data reading is completed, 'Replace the source phone with the target phone and press <F5> when ready' message appears on the screen.
6. Press any key to clear the message. The cellular phone displays 'DELETED' and '300-300-3000' instead of greeting and phone number respectively. All the features of the phone including ESN are reset to default status, and the phone can not be operated.
7. Remove the phone from the test jig and connect the new phone to the test jig.

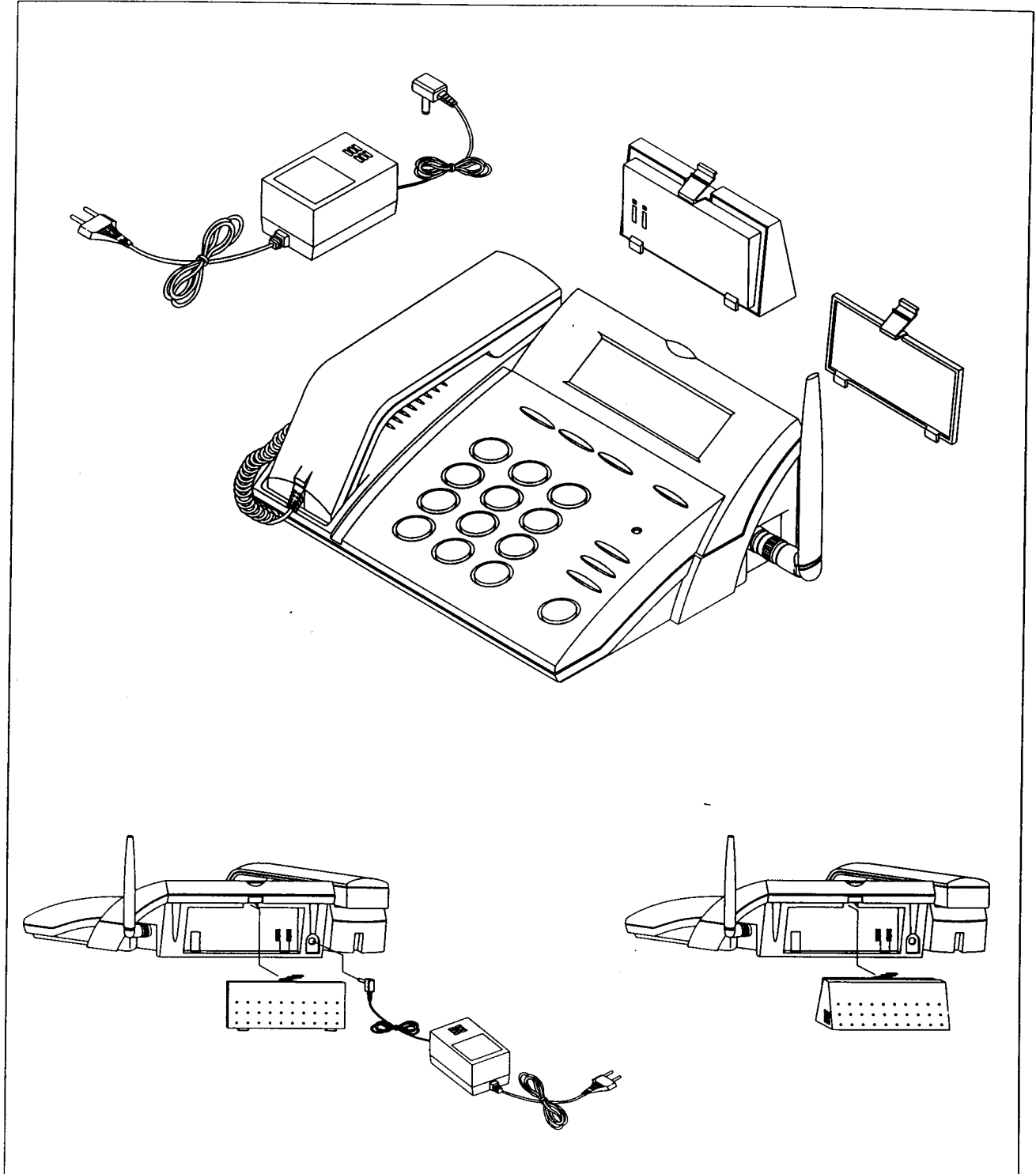
Caution: If you try to perform reading again without writing after reading is already done once, the error message 'READING FROM THE PHONE WAS ALREADY BEEN CARRIED OUT, WRITING SHOULD BE CARRIED OUT' appears on the screen.

8. Press <F5> key to perform writing EEPROM data. You can monitor the writing procedure on the screen.
9. When the data writing is completed, the phone will reset. The program returns to standby mode and is ready to read data from another phone. 'WELL DONE, DATA TRANSFER IS COMPLETED' appears on the screen.
10. Check if the transferred EEPROM data is the same.

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4. Setup Method

4. Setup Method



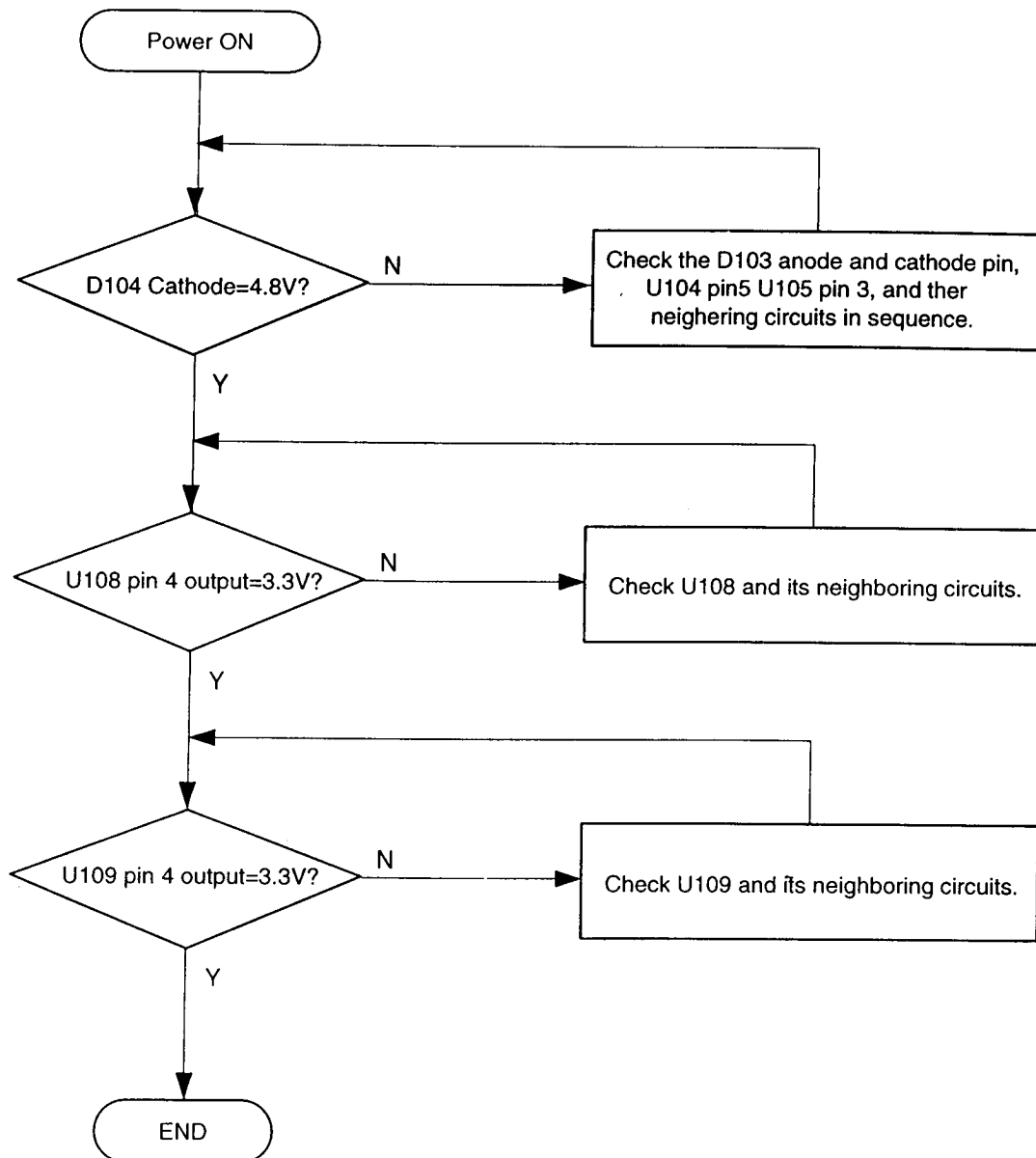
MEMO

6. Troubleshooting

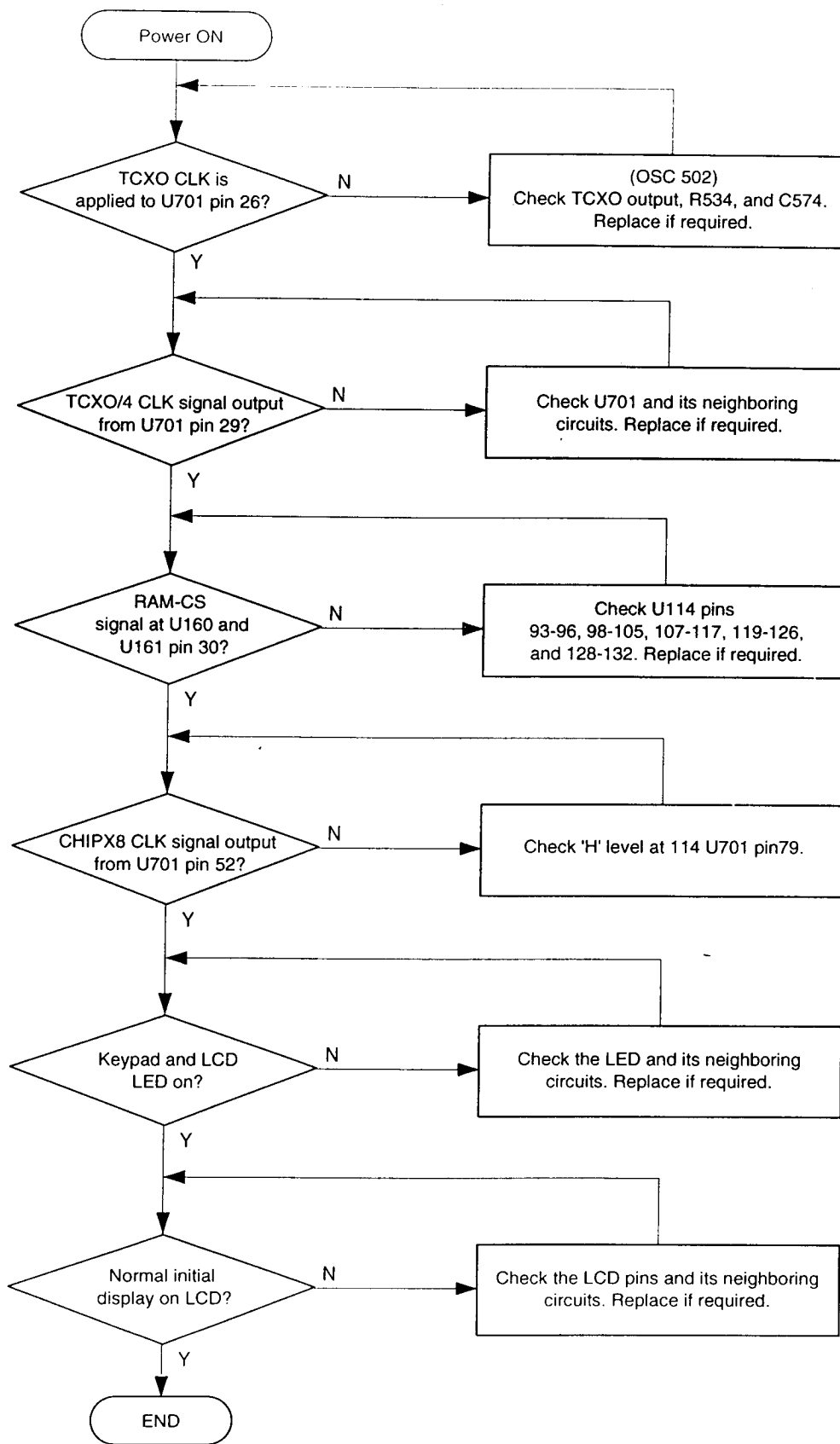
6. Troubleshooting

6-1 Logic Section

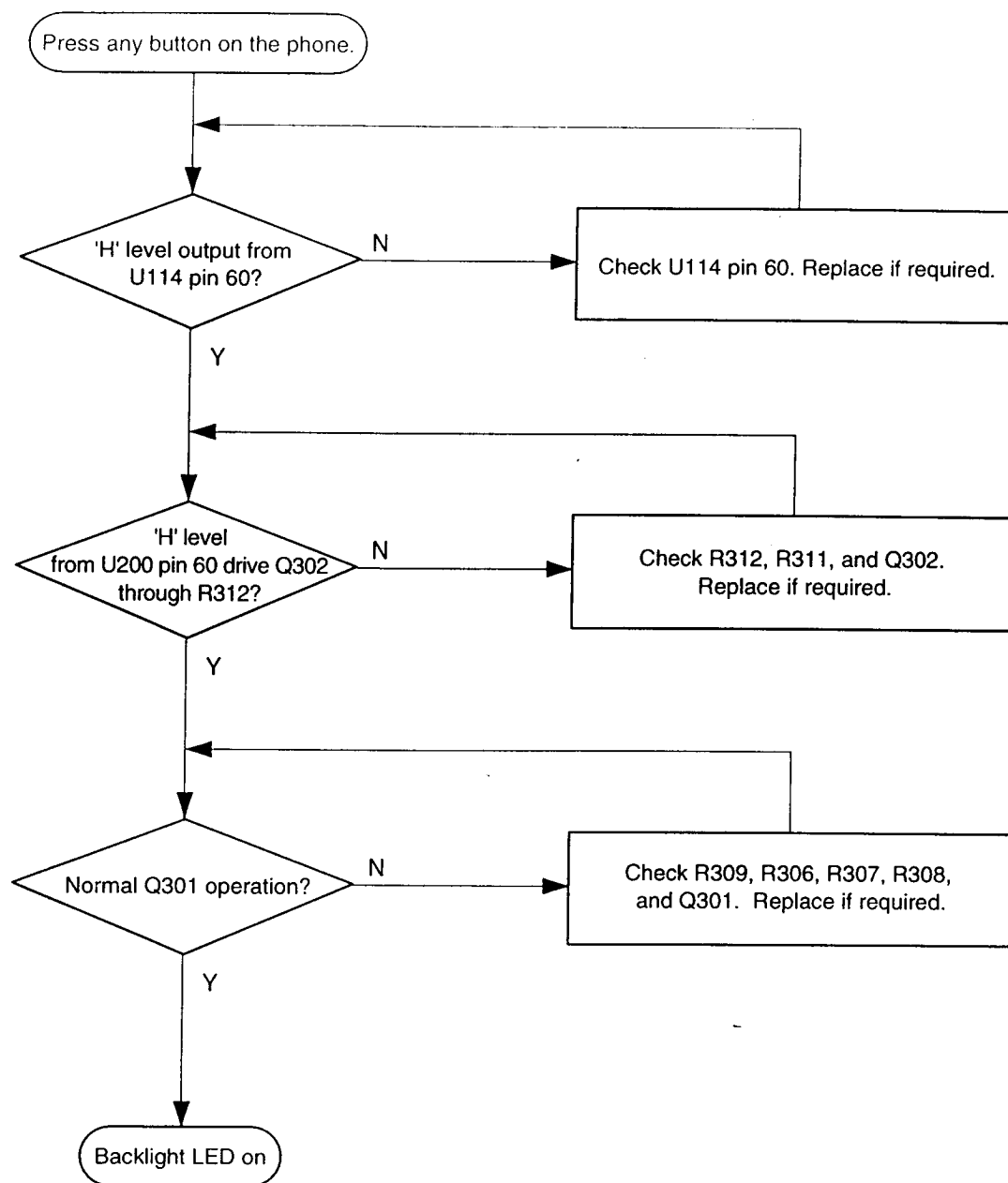
6-1-1 No Power



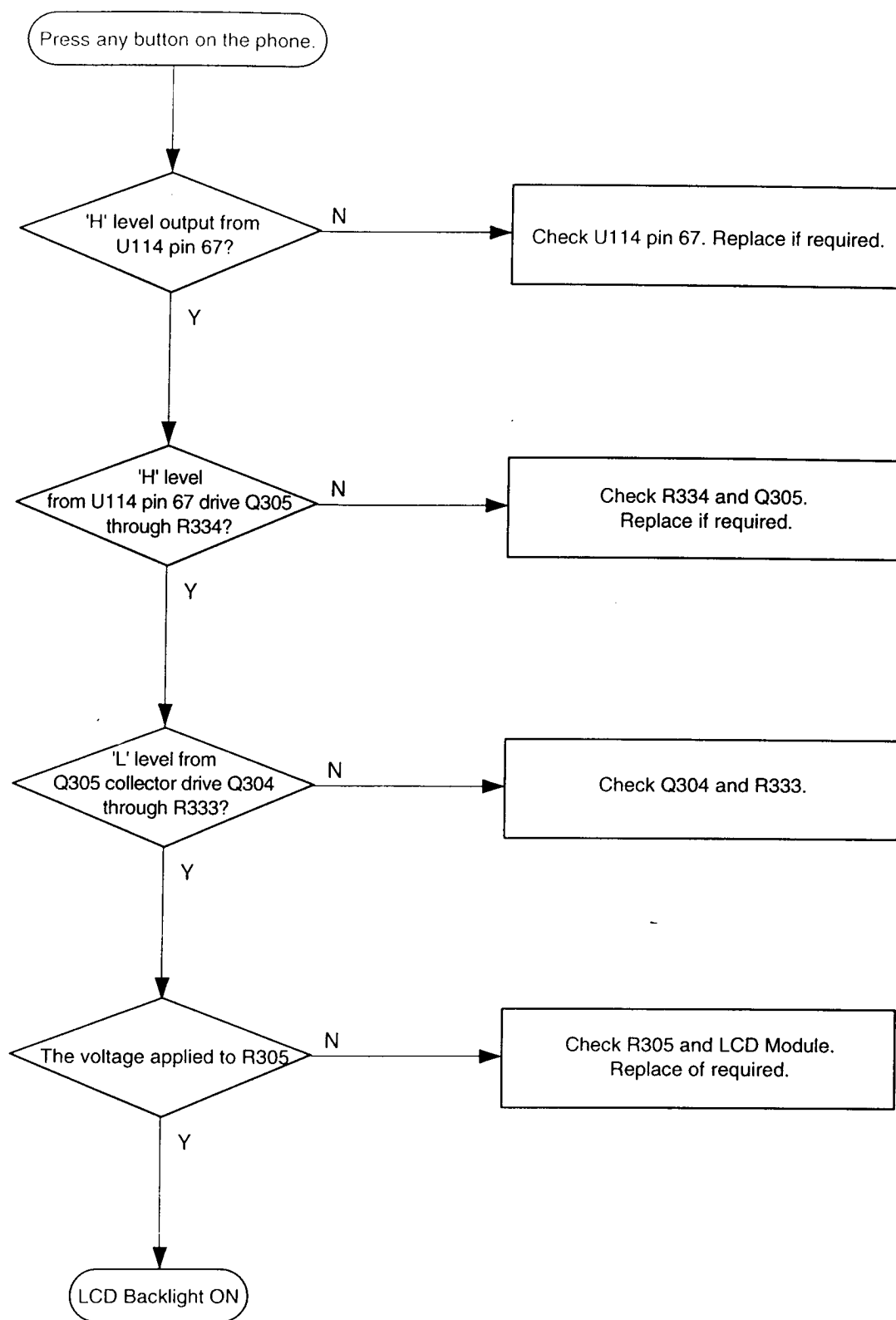
6-1-2 Abnormal Initial Operation (Normal +3.3V voltage source)



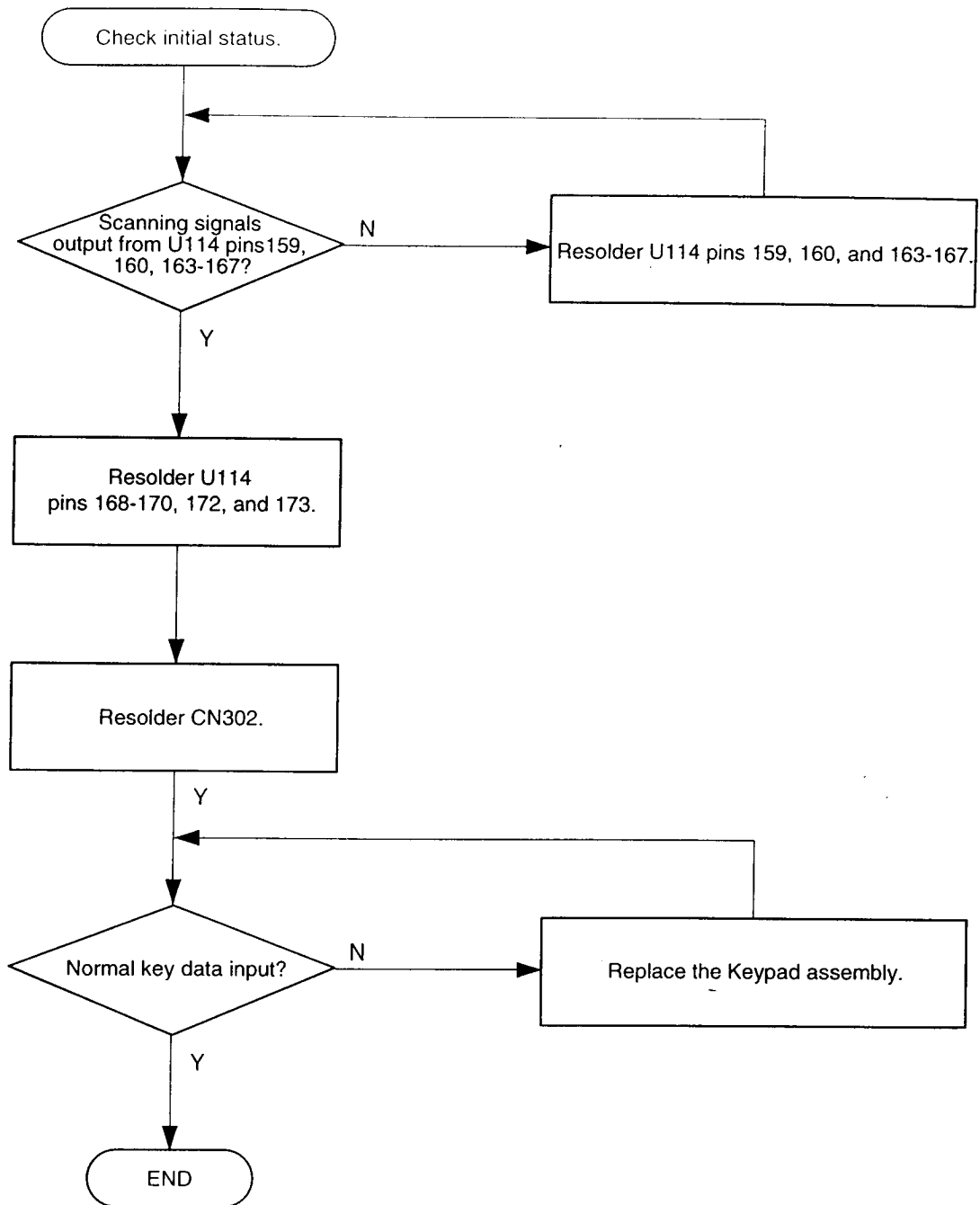
6-1-3 Abnormal Keypad Backlight Operation



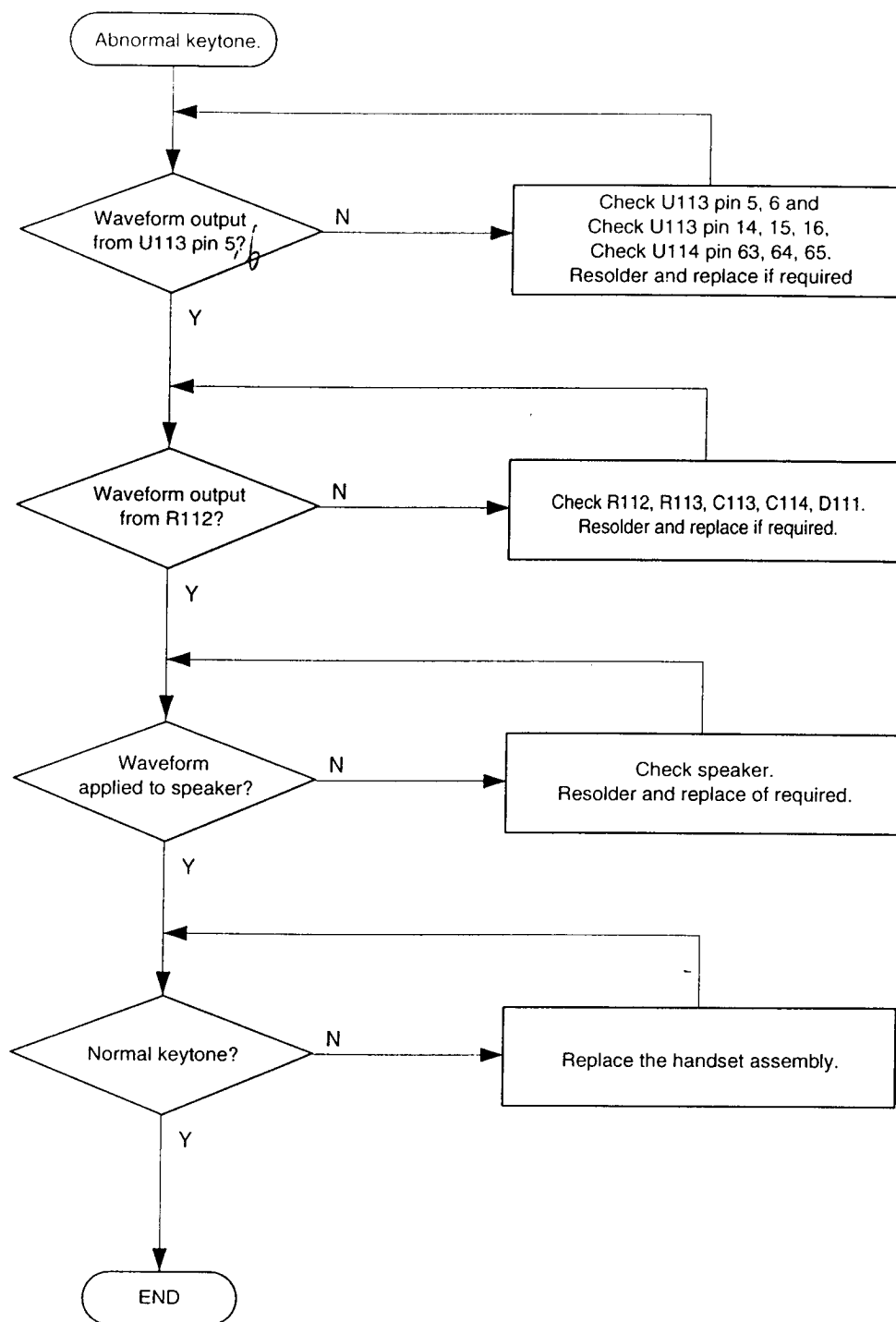
6-1-4 Abnormal LCD Backlight operation



6-1-5 Abnormal Key Data Input



6-1-6 Abnormal Keytone



6-1-7 Abnormal Alert Tone

