

5. Test Commands & Test Procedure List

To change the phone from normal mode to test mode, you should enter the following keys :
Press [*759#813580]

Command No	Command SW Name	Description
01(1F,0,0)	T_SUSPEND_I	Enter the test menu
02(3F,0,0)	T_RESTART_I	Escape from test menu
04(1D,0,1)	T_GET_MODE_I	Get mode CDMA/FM
07(81,0,0)	T_CARRIERON_I	Turn on the carrier
08(82,0,0)	T_CARRIEROFF_I	Turn off the carrier
09(83,4,0)	T_LOADSYN_I	Load the synthesizer for locking
10(84,1,0)	T_PWRLEVEL_I	Change RF power level
11(85,0,0)	T_RXMUTE_I	Mute rx audio
12(86,0,0)	T_RXUNMUTE_I	Unmute rx audio
13(87,0,0)	T_TXMUTE_I	Mute tx audio
14(88,0,0)	T_TXUNMUTE_I	Unmute tx audio
15	T_VOC_ESEC_I	Echo Canceller On Off
16(8F,0,0)	T_STON_I	Transmit a continuous Signaling Tone(ST)
17(90,0,0)	T_STOFF_I	Stop transmit a continuous Signaling Tone(ST)
18	T_LCD_CONTRAST_I	Tune LCD contrast
20	T_LNA_GAIN_WR_I	write LNA gain for IMD test
21	T_TEST_SYS_I	set test system & Channel
22(91,96,96)	T_SNDNAM_I ¹⁾	Display & Send NAM Information
23(95,3,4)	T_SNDVERSION_I ¹⁾	Display & Send Software Version
24(9F,7,8)	T_SNDESN_I ¹⁾	Display & return ESN
25(92,0,0)	T_BACKLIGHT_ON_I	Backlight on
26(93,0,0)	T_BACKLIGHT_OFF_I	Backlight off
27(96,0,0)	T_DATASVC_ON_I	Enable CD pin for the data service
28(97,0,0)	T_DATASVC_OFF_I	Disable CD pin for the data service
30(9D,15,0)	T_PLINE_I	Display and return production date
31	T_AUTOANSWER_I	Enable Auto-answer mode
32(A0,1,0)	T_SATON_I ²⁾	Enable the transmission of SAT
33(A1,0,0)	T_SATOFF_I ²⁾	Disable the transmission of SAT
34(A2,0,0)	T_CDATA_I	Continuously send TX Control data
37	T_RXRAS_FLATNESS_I	Adjust CDMA RX RAS flatness.
38	T_VOC_ENC_OFFSET_I	Vocoder ENC offset
39	T_VOC_DEC_OFFSET_I	Vocoder DEC offset
40(A7,3,0)	T_VOC_CDMA_UNITY_GAIN_I	Vocoder CDMA unity gain
41	T_VOC_FM_HFRX_UPGAIN_I	Vocoder FM hfrx upgain
42(AA,1,0)	T_DTMFON_I ³⁾	Turn on DTMF
43(AB,0,0)	T_DTMFOFF_I	Turn off DTMF
44(B0,0,0)	T_COMPANDORON_I	Turn on compandor
45(B1,0,0)	T_COMPANDOROF_I	Turn off compandor
46(B2,0,0)	T_FM_VCLINE_I ⁴⁾	Enter FM voice state
47(B3,3,0)	T_FM_AUD_GAIN_I	FM audio gain
48(B4,0,0)	T_VIBRATOR_ON_I	Activate a vibrator
49(B5,0,0)	T_VIBRATOR_OFF_I	Inactivate a vibrator
50(B6,0,4)	T_BATT_TYPE_I	Battery Type

Command No	Command SW Name	Description
52(B9,0,8)	T_HW_VERSION_I	View HW version
53	T_CARRIER_I	Target Carrier option (Change banner)
54	T_SNDPINFO_I	Product information
55(AC,1,0)	T_EXT_AUDIO_I	External Audio Path On/Off
56	T_LOOP_BACK_I	Loop Back Service On
57(BC,0,0)	T_MIC_ON_I	Unmute MIC Path
58(BD,0,0)	T_MIC_OFF_I	mute MIC Path
59(BE,0,0)	T_ALLPATH_I	Tune on the all audio path
60(BF,3,0)	T_FM_TX_GAIN_I ⁽²⁾⁽³⁾	AMPS Tx Audio Gain Control
61(C0,3,0)	T_FM_RX_GAIN_I ⁽²⁾⁽³⁾	AMPS Rx Audio Gain Control
62(C1,3,0)	T_DTMF_VOL_TX_I ⁽²⁾⁽³⁾	AMPS Tx DTMF Gain Control
63(C2,3,0)	T_TX_LIMITER_I ⁽²⁾⁽³⁾	AMPS Tx Limiter Gain Control
64(C3,3,0)	T_FM_SAT_LEVEL_I ⁽²⁾⁽³⁾	AMPS Tx SAT level Control
65(C4,3,0)	T_FM_FREQ_SGAIN_I ⁽²⁾⁽³⁾	AMPS Tx Master Gain Control
66(C5,3,0)	T_FM_ST_GAIN_I ⁽²⁾⁽³⁾	AMPS Tx ST Gain Control
67(C6,0,6)	T_READ_BATT_I ⁽¹⁾	Saved Low battery value read
68(C8,0,3)	T_VBATT1_I ⁽¹⁾	Set the low battery position in the standby
69(C9,0,3)	T_VBATT2_I ⁽¹⁾	Set the low battery position in the talking
70(CA,3,0)	T_WRITE_BATT_I ⁽³⁾⁽³⁾	write a BATT
71(D1,3,0)	T_CDMA_TXADJ_I ⁽²⁾	Sets tx_agc_adj for CDMA mode
72(D2,3,0)	T_FM_TXADJ_I ⁽²⁾	Sets tx_agc_adj for AMPS mode
75(D5,0,3)	T_READ_RSSI_I ⁽¹⁾	Read a RSSI
77(D7,0,3)	T_READ_TEMP_I	Read a TEMP
78	T_RXRAS_AUTO_I	Adjust RXRAS using the HP8924C
79(D9,1,0)	T_BUZZER_ON_I ⁽²⁾	Buzzer on
80(DA,0,0)	T_BUZZER_OFF_I	Buzzer off
81(E3,0,0)	T_VOC_PCMLPON_I	Turn on to play a PCM LOOP BACK
82(E4,0,0)	T_VOC_PCMLPOFF_I	Turn off to play a PCM LOOP BACK
83	T_BYPASS_ON_I	Set Low power mode
84	T_BYPASS_OFF_I	Set High power mode
85(E7,0,0)	T_SPEAKER_ON_I	Turn on the speaker path
86(E8,0,0)	T_SPEAKER_OFF_I	Turn off the speaker path
87(E9,0,0)	T_FM_LOOP_TEST_I	FM loop back
88(EA,3,0)	T_TRK_ADJ_I ⁽¹⁾	TRK LOCAL ADJUST
89(EB,3,0)	T_CDTRK_ADJ_I	CDMA TRK LOCAL ADJUST
90(F0,2,0)	T_FM_CH_FLATNESS_I	Adjust FM channel flatness
91	T_SVC_LED_I	SVC_LED indicator enable or not
92(D4,5,0)	T_TXRAS_ADJ_I	CDMA TX high power RAS table(adjustable)
93(F3,4,0)	T_RXRAS_ADJ_I	CDMA RX RAS table(not adjustable)
96(F6,4,0)	T_CH_FLATNESS_I	Adjust TX high power RAS
97(F2,4,0)	T_FM_TX_PWR_I	Adjust FM Power level 2 ~ 7
99(FC,4,0)	T_SND_GAIN_I	Mic/Speaker Gain control

NAM features can be programmed as follows:

LCD Display	Key in	Function
	menu + 60,000000	-selects NAM programming
NAM program 1:Setup NAM1 2:Setup NAM2	1	-choose 'Setup NAM1'
NAM1 Phone # 1234567890	Phone number OK	-Mobile Identification Number -to change, enter new one. -store it
NAM1 Directory # 1234567890	Phone number OK	-Mobile Directory Number -to change, enter new one. -store it
NAM1 Activate PRL Yes	< or > OK	-the roaming list(PRL) is enabled or not -to activate PRL, push the <OK> key to the right -store it
NAM1 Anlg HomeSID 4369	ID number OK	Analog Home System ID, current status is displayed. -to change, enter new one. -store it
NAM1 Dgtl HomeSID 4369	ID number OK	CDMA Home System ID, current status is displayed. -to change, enter new one -store it
NAM1 More Prog.? No	< or > OK	Basic programming completion display -No Exit NAM programming -Yes Continue more NAM programming

Choose 'General'

-Electronic Serial Number of the phone is displayed
Press **OK**, to view next status item.

-Common Air Interface version is displayed
-Press **OK**, to view next status item.

- to change Vocoder rate, push the <OK> key to the right
- store it

-Station Class Mark displays the power class,
transmission, slotted class, dual mode.
-Press **OK**, to view next status item.

NAM programming service lock code
-to change, enter new code.
-store it

Security(Menu+0) Lock Code
-to change, enter new code.
-store it

Slot mode operation is enabled or not
-changes the status
-store it

Slot Cycle Index The higher, the longer sleeping time
-to change, enter new one.
-store it

Roundup Timer
-to change the status, push the <OK> key to the right
-store it

NAM features can be programmed as follows:

LCD Display	Key in	F
	menu + 60,000000	-selects NAM pr
NAM program 1:Setup NAM1 2:Setup NAM2	1	-choose 'Setup N
NAM1 Phone # 1234567890	Phone number OK	-Mobile Identifica -to change, enter -store it
NAM1 Directory # 1234567890	Phone number OK	-Mobile Directory -to change, enter -store it
NAM1 Activate PRL Yes	< or > OK	-the roaming list -to activate PRL -store it
NAM1 Anlg HomeSID 4369	ID number OK	Analog Home Sv -to change, enter -store it
NAM1 Dgtl HomeSID 4369	ID number OK	CDMA Home Sv -to change, enter -store it
NAM1 More Prog? No	< or > OK	Basic program -No Exit NAM -Yes Continue n

NAM program	3	choose 'Setup NAM2'
1. General		
2. Setup NAM1		
3. Setup NAM2		
NAM2 Digital IMSI_MCC	000	IMSI Mobile Country Code, current code is displayed. -to change, enter new one. -store it
	number OK	
NAM2 Digital IMSI_MNC	00	IMSI Mobile Network Code, current code is displayed. -to change, enter new one. -store it
	number OK	
NAM2 Digital Phone #	1234567890	-Phone number -to change, enter new one. -store it
	Phone number OK	
NAM2 Digital Directory #	1234567890	-directory number -to change, enter new one. -store it
	Phone number OK	
NAM2 Digital Pchn Sys A	283	-Primary CDMA Channel for System A -to change, enter new one. -store it
	Preferred Channel OK	
NAM2 Digital Pchn Sys B	384	-Primary CDMA Channel for System B -to change, enter new one. -store it
	Preferred Channel OK	
NAM2 Digital Schn Sys A	691	-Secondary CDMA Channel for System A -to change, enter new one. -store it
	Preferred Channel OK	
NAM2 Digital Pchn Sys B	777	-Secondary CDMA Channel for System B -to change, enter new one. -store it
	Preferred Channel OK	
NAM2 Digital Home SID 01	1	1st CDMA Home system ID, current status is displayed -to change, enter new one. -store it
	Phone number OK	
NAM2 Digital Home NID 01	65535	1st CDMA Home Network ID, current status is displayed -to change, enter new one. -store it
	Phone number OK	
NAM2 Digital Home SID 02	1	2nd CDMA Home system ID, current status is displayed -to change, enter new one. -store it
	Phone number OK	

NAM2 Digital
Home NID 02

65535

Phone number
OK

2nd CDMA Home Network ID, current status is displayed
-to change, enter new one.
-store it

----- repeated to SID 20 & NID 20-----

NAM2 Digital
Lockout SID01

0

ID number
OK

1st lockout system ID,current status is displayed.
-to change, enter new one.
-store it.

NAM2 Digital
Lockout SID02

0

ID number
OK

2nd lockout system ID,current status is displayed.
-to change, enter new one.
-store it.

----- repeated to Lockout SID10-----

NAM2 Digital
CDMA Home SID

Yes

< or >
OK

Autonomous registration status indicator
-changes the status, push the <OK> key to the right
-store it.

NAM2 Digital
CDMA fSID

Yes

< or >
OK

Autonomous registration status indicator
-changes the system, push the <OK> key to the right
-store it.

NAM2 Digital
CDMA fNID

Yes

< or >
OK

Autonomous registration status indicator
-changes the system, push the <OK> key to the right
-store it.

NAM2 Digital
ACCOLC

6

class number
OK

CDMA Access Overload Class, current status is displayed.
-to change, enter new one.
-store it.

NAM2 Analog
Phone #

1234567890

Phone number
OK

-Phone number
-to change, enter new one.
-store it

NAM2 Analog
Home SID

1

Phone number
OK

Analog Home system ID, current status is displayed
-to change, enter new one.
-store it.

NAM2 Analog
Auto Reg

Yes

< or >
OK

Autonomous registration status indicator
-changes the status, push the <OK> key to the right
-store it

NAM2 Analog
ACCOLC

6

class number
OK

Analog Access Overload Class, current status is displayed
-to change, enter new one.
-store it.

NAM program		1	Choose ' General'
1. General			
2. Setup NAM1			
3. Setup NAM2			
General	ESN		
	B0000000	OK	-Electronic Serial Number of the phone is displayed -Press OK , to view next status item.
General	CAI version		
	3	OK	-Common Air Interface version is displayed -Press OK , to view next status item.
General	VOC Select		
	SO_VOICE_08K	< or > OK	- to change Vocoder rate, push the <OK> key to the right - store it
General	SCM		
	01101010	OK	-Station Class Mark displays the power class, transmission, slotted class, dual mode. -Press OK , to view next status item.
General	Service Code		
	000000	6-digit code OK	NAM programming service lock code -to change, enter new code. -store it
General	Lock Code		
	0000	4-digit code OK	Security(Menu+0) Lock Code -to change, enter new code. -store it
General	Slot Mode		
	Yes	< or > OK	Slot mode operation is enabled or not -changes the status. -store it
General	Slot Index		
	2	0-7 OK	Slot Cycle Index. The higher, the longer sleeping time -to change, enter new one. -store it.
General	Roundup Timer		
	No	< or > OK	Roundup Timer. -to change the status, push the <OK> key to the right -store it.

NAM program	3	choose 'Setup NAM2'
1. General		
2. Setup NAM1		
3. Setup NAM2		
NAM2 Digital IMSI_MCC		IMSI Mobile Country Code, current code is displayed.
000	number	-to change, enter new one.
	OK	-store it.
NAM2 Digital IMSI_MNC		IMSI Mobile Network Code, current code is displayed.
00	number	-to change, enter new one.
	OK	-store it.
NAM2 Digital Phone #		-Phone number
1234567890	Phone number	-to change, enter new one.
	OK	-store it.
NAM2 Digital Directory #		-directory number
1234567890	Phone number	-to change, enter new one.
	OK	-store it.
NAM2 Digital Pchn Sys A		-Primary CDMA Channel for System A
283	Preferred Channel	-to change, enter new one.
	OK	-store it.
NAM2 Digital Pchn Sys B		-Primary CDMA Channel for System B
384	Preferred Channel	-to change, enter new one.
	OK	-store it.
NAM2 Digital Schn Sys A		-Secondary CDMA Channel for System A
691	Preferred Channel	-to change, enter new one.
	OK	-store it.
NAM2 Digital Pchn Sys B		-Secondary CDMA Channel for System B
777	Preferred Channel	-to change, enter new one.
	OK	-store it.
NAM2 Digital Home SID 01		1st CDMA Home system ID, current status is displayed
1	Phone number	-to change, enter new one.
	OK	-store it.
NAM2 Digital Home NID 01		1st CDMA Home Network ID, current status is displayed
65535	Phone number	-to change, enter new one.
	OK	-store it.
NAM2 Digital Home SID 02		2nd CDMA Home system ID, current status is displayed
1	Phone number	-to change, enter new one.
	OK	-store it.

NAM2 Digital
Home NID 02

65535

Phone number
OK

2nd CDMA Home Network ID, current status is displayed
-to change, enter new one.
-store it.

----- repeated to SID 20 & NID 20-----

NAM2 Digital
Lockout SID01

0

ID number
OK

1st lockout system ID,current status is displayed.
-to change, enter new one.
-store it.

NAM2 Digital
Lockout SID02

()

ID number
OK

2nd lockout system ID,current status is displayed.
-to change, enter new one.
-store it.

----- repeated to Lockout SID10-----

NAM2 Digital
CDMA Home SID

Yes

< or >
OK

Autonomous registration status indicator
-changes the status, push the <OK> key to the right
-store it.

NAM2 Digital
CDMA fSID

Yes

< or >
OK

Autonomous registration status indicator
-changes the system, push the <OK> key to the right
-store it.

NAM2 Digital
CDMA fNID

Yes

< or >
OK

- changes the system, push the <OK> key to the right
- store it.

NAM2 Digital
ACCOLC

6

class number
OK

CDMA Access Overload Class, current status is displayed.
-to change, enter new one.
-store it.

NAM2 Analog
Phone #

1234567890

Phone number
OK

- Phone number
- to change, enter new one.
- store it.

NAM2 Analog
Home SID

1

Phone number
OK

Analog Home system ID, current status is displayed
-to change, enter new one.
-store it.

NAM2 Analog
Auto Reg

Yes

< or >
OK

Autonomous registration status indicator
-changes the status, push the <OK> key to the right
-store it.

NAM2 Analog
ACCOLC

6

class number
OK

Analog Access Overload Class, current status is displayed.
-to change, enter new one.
-store it.

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- during the NAM programing if you want to return the previous item, push the <OK> key to the top side
 - during the NAM programing if you want to return the previous state , push the <CLR> key twice
 - after finishing the NAM programing, press <END> key to exit the NAM programing mode
-