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THE HACKERS MANUAL

What the store will never tell you!



Version 2.0

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Р	OR	ТΑ	В	L	E		T	R	1		B	A	N	D

MOBILE PHONE

Provide By Rashou812

12/12/2008 v2.0 12/01/2008 v1.0

Author Notes

Welcome!

It was my goal to have a manual others could use to find all the information about this phone. The information in this manual has come from many places. I spent months reviewing some of this information and rechecking the **SAMSUNG** r450 and trying to find out everything I could about it. It was hard work getting all this information and spending weeks writing it all down. This information did not come easy.

As I learned more I will keep this manual updated with a version number as shown at the top, on the first page.

I would like to thank a few users for the information and help in finding this information for this phone. Without them it would have been much harder to get all the codes for this phone and information would have been slow.

Special thanks to you guys ..

- > alaric7
- > norcalmason
- > doctehroc
- > efasser

The information below and its codes may not work on some R450 phones. The information was tested on a MetroPCS phone. Cricket phones: Some codes said in this manual will not work. I hope to add more information in a later version of this manual. The information in this manual is used to better understand the basic workings of this phone ONLY. The information and it content have been provided via web sites, forms and users.

Make note of all your settings before making ANY changes.

!! WARRNING !!Use this information at your own risk!\$\lambda \{YOU CAN KILL YOUR PHONE \} \lambda

WHATS NEW IN THIS VERSION 2.0

In this version:

I have add new information to this manual. Most of it is at the end pages. Some information in this manual was just updated and typos where removed. Some small changes with layout and numbering.

NEW CHANGES:

The FTM Area: The Service Programming Area: New Codes Updated some menus Fixed information error and typos

Added more information Added new codes Added more Technical Terms and Abbreviations Added more "How To" and cross referenced more areas Added fast links to the pages. (will be work on this more in the next few versions)



CDMA DRIVER v1.0

If you're haven problems getting your computer to see your phone when you plug it in from the computer then this drive should help.

DOWNLOAD DRIVER: http://downloadcenter.samsung.com/c...CDMA_Driver.exe

SIZE: The MicroSD has a max size of 2 gigs.

USB:

The MicroSC card must be in the phone to be formatted by the phone. Once the phone has done that you can hookup the USB from the computer to the phone.

FORMAT: How do I format my SD Card? Push "OK", 9, 6, 6, then yes Once the MicroSD has been formatted you can add files to your phone like (mp3, pics, ringertones).

NOTE:

You must put the music in its own file and photos in its own file also. MP3 will work in both Music and Ringtone file area.

FILES ON SD CARD:

My_Images My_Music My_Ringtones My_Sounds

NOTE:

This phone has <u>NO game file</u> on the MicroSD card, don't try to just add games to your SD cardor files. Games are kept deep in a storage area on the phone. You may need to buy a game for now if you want one. We are working to find out how to add games and apps to your phone. I hope in a later version will point that out.



ENTERING CODES (METRO / CRICKET) V2.0

NOTE:

If you enter a code and it worked but now it stopped working. Try to shut off your phone and reboot it. This should fix the lockout problem.

Push the "OK" go to a MENU number then push "OK". Push "*" or "#" then input a code.

4 Digit Code





BREW INFO (@metro)

<u>4 digit Code</u>: Push the "OK" go to a MENU number then push "OK" "*" and a code. Some codes are your last 4 digests of that phone number.(XXX-XXX-#####)

6 Digit Code





MMS PROVSION (message)



<u>6 digit Code</u> "#": (for Menu 3) Push the "OK" go to Menu 3, push the "*", enter <u>450667</u>



<u>SYSTEM INFO</u> <u>6 digit Code</u> "*" or "#": (for Menu 9) Push the "OK" go to MENU 9, push "OK", push the "*" or "#" enter <u>587846</u> Note: The SPC will also unlock the same areas this number will.

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SERVICE PROGRAMING (menu - #1)

6 digit Code "*" (OK, 9, *, Code) Push the "OK" go to MENU 9, push "OK", push the "*" enter the SPC Code You can find this code in the FTM area number "170" (each phone has its own number)



SERVICE PROGRAMING (menu - #2)

6 digit Code "*" (OK, 9, *, 587846) Push the "OK" go to MENU 9, push "OK", push the "*" enter code <u>587846</u>

NOTE: Menu #1 and #2 are not the same and have there own codes.

10 Digit Code





PARAM EDITOR

10 digit Code: "#" (for menu 9 after 6 digit code was inputted) Push the "OK" go to MENU 9, push "OK", push the "#" input code <u>587846</u>, then push "#" input code <u>8886573982</u>

OTHER CODES:



Go to the FTM information below and read it. Be very careful not to type ANY wrong numbers. YOU CAN KILL YOUR PHONE! (This area will format your phone back to the factory settings and removes all information from the phone if you hit the wrong number. YOU DO NOT GET A SECOND CHANCE AT THIS ENTERY.

Just take your time and look over ALL the information until you understand it.

(By editing this area it cost me a good phone that sits died now)

FTM AREA

QPT Messager – 680910 SPC-412950 666612 Cricket -333333 http://www.howardforums.com/showthread.php?t=1432034 or search for the "r450" on this site.

UNKNOW

By pushing the "7" and "9" at the same time and before you push the "Power ON" the "USB Download Mode"" menu will come up. The phone enters this mode. But I fine this mode to freeze the phone. Remove the battery to rest the phone.

Games – No known area at this point. When we find it will add it to this manual.

DOWNLOADS

In the future I will be adding more information for downloads.

Convert your MEID to pESN, using the .exe program from http://rapidshare.com/files/1489183...hexdec.exe.html

Input that pESN to this .xls file: <u>http://rapidshare.com/files/1489176...ulator.xls.html</u> Enter the pESN in the cell to calculate your unlock code.



BASIC MENUS

NOTE: The " < " is used to show default setting.



Push the OK button to open the menu area. 1. Contacts > No Code 2. Calls > No Code 4 3. Messages *, 450667 (OK, 3, *, 450667) •9 8 2/4 MMS provision MMSC Domain 2 MMSC Domain2 3 UAProf 4 AUTH Mode > MMS provision Cancel MMSC Domain . ♦ 1. MMSC Domain - http://mms.metropcs.net:3128/mmsc ♦ 2. MMSC Domain2 - none ♦ 3. UAProf - http://uaprof.metropcs.net/UAProf/sam-r450.xml ♦ 4. AUTH Mode ○ Commercial < LAB Test O o Domestic Test 5. <u>MMS User Agent - sam-r450</u> 👍 4. @metro *, (4 digit phone)



		5.	Brew Primary URL
-			Brew.metropcs.net
		6.	Brew Secondary URL
			Brew.metropcs.net
	×	7.	Brew Bkey
			 ♦
		8.	Brew ABkey (1:A 0:B)
			• 0
		9.	Brew Auth (1/0)
r			♦ 1
		Eu	la Support (1/0)
			• 0
		M	in for Sid (1/0)
			• 1
	2007 - 1997	Te	st Enable (1/0)
			• 0
		Br	ew Policy
ĩ			* 3
		Br	ew Directed SMS
r			♦ 4098
		Pro	epay
	11-1-10-11-0		• 1
4 5. Metr	'0W	E	B
*, <u>(4 digit</u>	pho	ne)	
≻ 1.]	Prin	nar	y DNS
		H	TTP Proxy Port
			♦ 3128
		E2	E Port
5. T			♦ 443
		ĽΣ	KL Port
ī			♦ 8080
	*	H'	TTP Username
Ĩ		11-202-011-0	Your Phone #) @mymetropes.com
		H'	TTP Password
r		-	metropes
		Pr	imary DNS
	20	C+	wap.metropcs.net



	1 450 10 01 01
♦ 8080	
 HTTP Username 	
 (Your Phone #) @mymetropcs.com 	
 HTTP Password 	
 metropes 	
Primary DNS	
wap.metropcs.net	
Secondary DNS	
 HTTP Proxy Port 	
♦ 3128	
• E2E Port	
♦ 443	
LXL Port	
♦ 8080	
 HTTP Username 	
 (Your Phone #) @mymetropcs.com 	

- HTTP Password
 - metropes
- Primary DNS
 - wap.metropcs.net ٠

3. Proxy address

- Proxy IP Used
 - . no
- Primary IP
 - ♦ 0.0.0.0
- Secondary IP
 - ♦ 0.0.0.0
- Network Name
 - metropes
- Browser Default Font
 - 11 •

> 4. Common Settings

- Home URL
 - http://wap.metropcs.net ٠
- Uaprofile URL
 - http://uaprof.metropcs.net/.UAProf/sam-r450.xml
- User Agent





587846, pus	sh 1))
-------------	--------

2. Test Call

- S02 RC11 < 8k Loopback O
- S02 RC33- 8k Loopback 0
- S02 RC43- 8k Loopback 0
- S09 RC22-13k Loopback O
- S09 RC54-13k Loopback 0
- S054 RC22- N8K Markov reset to main window 0
- S055 RC11- IS2000 Loopback reset to main window 0
- S055 RC22- IS2000 Loopback reset to main window 0
- S055 RC33- IS2000 Loopback reset to main window O
- S055 RC43- IS2000 Loopback reset to main window 0
- S055 RC54- IS2000 Loopback reset to main window 0

- S032798 RC11- N8K Markov reset to main window 0
- S032798 RC33- N8K Markov reset to main window 0
- S032798 RC22- 13K Markov reset to main window 0
- S032798 RC54-13K Markov reset to main window 0

✤ 3. Voice SO

- Default < 0
- S03 RC11 0
- S03 RC33 0
- S03 RC43 O
- S032768 RC22 0
- S032768 RC54 O

4. Port Map

- 1. DS (DATA) 0
 - \Rightarrow NULL
 - \Rightarrow USB <
 - \Rightarrow Bluetooth
- 2. DM (DIAG) 0
 - \Rightarrow UART





- o 2. Band Class
 - Automatic Mode < Т
 - Class 0 (CDMA)
 - Class 1 (PCS)
 - Class 15 (AWS)



(Go to STARTING POINT bellow)

On the "OK" pad arrow "UP" or "DOWN" to move to the next setting. Push the "C" to remove old setting and enter the new setting you want. Push "OK" to SAVE.

NOTE: Some settings will default back unless changed at its menu. Don't know why? This happen a few times.

- THRD_MSG_SETTIN:I 0
- COMFORT_NOISE:I1
- RUIM_DEL_OVERRID:I0
- NO_AUTO_ACK:I 0
- SID_VALIDATE_ALL:I 0
- BACKUP_CHECK:I1

- AUTO KEYLOCK:11 AUTO KEYLOCK STA:10 . MP3 PLAYER VOLUM:I 12 ----- KEY ARROW UP----->>(STARTING POINT)<< ----- KEY ARROW DOWN-----. HIDDEN MENUS:I 1 . MP3 PLAY MODE:10 MP3 VISUALIZER: I 3 . OMB PRIMARY DNS:A wap.metropcs.net . OMB HTTP AUTH US:A (phone number)@mymetropcs.net . OMB HTTP AUTH PA:A metropes . OMB PROXY PORT P:I 3128 OMB E2E PORT P:I 443 OMB LXL PORT P:I 8080 OMB SECONDARY DN:A wap.metropcs.net OMB HTTP AUTH US:A (phone number)@mymetropcs.net OMB HTTP AUTH PA:A metropes . OMB PROXY PORT P:13128 OMB E2E PORT P:I 443 OMB LXL PORT P:18080 OMB SECONDARY DN:A wap.metropcs.net . OMB HOME URL:A http://wap.metropcs.net OMB UAPROFILE UA:A http://uaprof.metropcs.net . OMB FLIX URL:A http://mw2.vzwwap.com . OMB EMAIL URL: A http://mw2.vzwwap.com OMB_USER_AGENT:A sam-r450 OMB DOMESTIC TES:10 . OMB_USE_IP:A no OMB PRIMARY IP:10 OMB SECONDARY IP:10 OMB_NETWORK_NAME: A metropes OMB DEFAULT BRW :I11 OMB SEARCH URL: A http://www.google.com OMB SLMODE: A convert . OMG PROXY COUNT:10 CALL TIME LAST C:I 22 CALL TIME LAST C:1910645422 CALL TIME TOTAL: 184286 CALL TIME TOTAL:137388 CALL TIME TOTAL :I 46850 . CALL TIME ROAMED:I 48 CALL TIME LAST R:I CALL_TIME_LAST R:A CALL TIME LAST R:A DATA CALL TIME L:A DATA CALL TIME L:A
 - DATA_CALL_TIME_L:A
 - CALL_TIME_LIFETI:I 84286

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- CALL TIME TOTAL :I 263
- CALL_TIME_TOTAL_:I 379
- CALL_TIME_ROAMED:12
- DATA_COUNTER_TRA:I 11689
- DATA COUNTER REC:I 12999
- DATA COUNTER TOT:I 24688
- DATA_COUNTER_LIF:I 24688
- NUM CUR CALLS:1644
- NUM_LIFETIME_CAL:I 644
- MISSED CALLS:10
- MSGS_CAN_TXT_MSG:A What's UP!
- MSGS_CAN_TXT_MSG:A
 MSGS_CAN_TXT_MSG:A
- MSGS_CAN_TXT_MSG:A
 MSGS_CAN_TXT_MSG:A
- MSGS_CAN_TXT_MSG:A
 MSGS_CAN_TXT_MSG:A
- MSGS CAN TXT MSG:A
- MSGS_CAN_TXT_MSG:A
- MSGS CAN TXT MSG:A
- MSGS CAN TXT MSG:A
- MSGS CAN TXT MSG:A
- MSGS_CAN_TXT_MSG:A
- MSGS_CAN_TXT_MSG:A
- MSGS_CAN_PIX_MSG:A What's UP!
- MSGS_CAN_PIX_MSG:A

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•	MSGS_CAN_PIX_MSG:A
•	MSGS_CAN_PIX_MSG:A
	MSGS_CAN_PIX_MSG:A
٠	MSGS_CAN_PIX_MSG:A
٠	MSGS_CAN_PIX_MSG:A
•	MSGS_CAN_PIX_MSG:A
•	MSGS_CAN_PIX_MSG:A
	MSGS_CAN_PIX_MSG:A
•	MSGS_CAN_PIX_MSG:A
•	MSGS_CAN_PIX_MSG:A
	MMS_LAYOUT:I 0
•	MSGS_PRIORITY:11
•	SAVE_MEDIA_FILE_:I
•	SAVE_MEDIA_FILE_:I 0
•	SAVE_MEDIA_FILE_:I 2
•	SAVE_MEDIA_FILE_:10
•	FLIX_MSG_SIZE:I 200
	MAX_FLIX_SIZE:I 199680
•	SMS_MO_SO:11
•	SMS_MO_ENABLE:11
•	SMS_RESEND_PERIO:I 1
•	SMS_RESEND_COUNT:I 3
•	SMS_MO_MSG_SIZE:I 160
•	SMS_TRANSPORT_CH:10
•	SMS_DATA_ENCODIN:10
•	SMS_EMAIL_WORKAR:10
•	SMS_TIME_ADJUST:10
•	SMS_DEF_DELV:11
	SMS_EMAIL_STD_EN:10
•	SMS_AUTO_SAVE:I1
	NAM_1_CALLBACK_N:A (phone number)
•	NAM_2_CALLBACK_N:A 0000002/4/
	DELIVERY_ACK:II
	SMSCENTER_OPT_1:1000000000
	SMSCENTER_OPT_2:1000000000
	SMSCENTER_OPT_3:1
•	SMSCENTER_OP1_4:1
	SMSCENTER_OP1_5:1
	SELECTED_SMSCENT:10
•	DEFAULT_DST_OPT_:1000000000
•	DEFAULT_DST_OPT_:A 000000000
	DEFAULT_DST_OPT_:A
	DEFAULT_DST_OPT_:A
	DEFAULT_DST_OPT_:A
	SELECTED DEFAULT:10
	DEFAULT_VALIDIY_:10
1. . .	DEFAULT_VALIDTY_:10
1.1	ATTAC DD/AV/ICION 1/A A ASACC7

MMS_PROVISION_LO:A 450667
 PIC_MSG_SERVER:A http://mms.metropcs.net

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- MMS_UPLOAD_DOMAI:A (phone number)@mml.mymetropcs.net
- MMS_UPLOAD_DOMAI:A (phone number)@mml.mymetropcs.net
- MMS_PIX_PLACE:A @onlinealbum.metropcs.net
- MMS_UA PROFILE: A http://uaprof.metropcs.net
- MMS_USER_AGENT:A sam-r450
- MMS_USERNAME_COM:A
- MMS_PASSWORD_COM:A
- MMS_AUTH_MODE:I0
- MMS_UPLOAD_DOMAI:A
- MMS_UPLOAD_DOMAI:A
- MMS_UA_HEADER:A
- MMS_MMS_LINE_ID:A
- MMS_PIX_PLACE_LA:A 666612
- PIC_MSG_SERVER_T:A http://211.232.66.170/mms
- MMS_USERNAME:A sktelecom
- MMS_PASSWORD:A
- PIC_MSG_SERVER_D:A http://222.231.61.41/mms (phone will locked up, remove battery to reboot it)
- 3. Build Version

None BG19.6 1 2008-07-19 15:52.05 bkkang@dongyoon

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PARAM EDITOR - (THE BRAKE DOWN ONLY)

I have starting the brake down, but this will take more time to do.

41. SYSINFO Editor

- (This menu will return to the start once at the end of list)
- MALTRACE ENABLE: I 1 Y
 - (Maltrace Log Enable/Disable To "Enable" Maltrace Log)

UART MODE: I 3 Y

- (Universal Asynchronous Receiver/Transmitter -UART)
- END KEY LPRESS T:I 2000
- **KEY LPRESS TIME: I 750** Y
- ➢ KEY REPEAT TIME:I 375

SIM LOCK MODE:I1 X

SIM LOCK ENABLE: I 1 >

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MP3_PLAY_MODE:I 0 MP3_VISUALIZER:I 3

- Open Mobile Broadcast

OMB_PRIMARY_DNS:A wap.metropcs.net OMB_HTTP_AUTH_US:A (phone number)@mymetropcs.net OMB_HTTP_AUTH_PA:A metropcs OMB_PROXY_PORT_P:I 3128 OMB_E2E_PORT_P:I 443 OMB_LXL_PORT_P:I 8080 OMB_SECONDARY_DN:A wap.metropcs.net OMB_HTTP_AUTH_US:A (phone number)@mymetropcs.net OMB_HTTP_AUTH_PA:A metropcs OMB_PROXY_PORT_P:I 3128

```
OMB_E2E_PORT_P:I 443
OMB_LXL_PORT_P:I 8080
OMB_SECONDARY_DN:A wap.metropcs.net
OMB_HOME_URL:A http://wap.metropcs.net
OMB_UAPROFILE_UA:A http://uaprof.metropcs.net
OMB_FLIX_URL:A http://mw2.vzwwap.com
```

OMB_EMAIL_URL:A http://mw2.vzwwap.com OMB_USER_AGENT:A sam-r450 OMB_DOMESTIC_TES:I 0 OMB_USE_IP:A no OMB_PRIMARY_IP:I 0 OMB_SECONDARY_IP:I 0 OMB_NETWORK_NAME:A metropcs OMB_DEFAULT_BRW_:I 11 OMB_SEARCH_URL:A http://www.google.com OMB_SLMODE:A convert OMG_PROXY_COUNT:I 0

- Call information / Time / Total / Data /Counter

CALL_TIME_LAST_C:I 22 CALL_TIME_LAST_C:I 910645422 CALL_TIME_TOTAL:I 84286 CALL_TIME_TOTAL:I 37388 CALL_TIME_TOTAL:I 37388 CALL_TIME_TOTAL_:I 46850 CALL_TIME_ROAMED:I 48 CALL_TIME_LAST_R:I CALL_TIME_LAST_R:A CALL_TIME_LAST_R:A

DATA_CALL_TIME_L:A DATA_CALL_TIME_L:A DATA_CALL_TIME_L:A

CALL_TIME_LIFETI:I 84286 CALL_TIME_TOTAL_:I 263 CALL_TIME_TOTAL_:I 379 CALL_TIME_ROAMED:I 2

DATA_COUNTER_TRA:I 11689 DATA_COUNTER_REC:I 12999 DATA_COUNTER_TOT:I 24688 DATA_COUNTER_LIF:I 24688

-Number Currant Calls

NUM_CUR_CALLS:I 644 NUM_LIFETIME_CAL:I 644 MISSED_CALLS:I 0

- Messages can txt (link location- OK.9,1.3)

MSGS_CAN_TXT_MSG:A What's UP! MSGS_CAN_TXT_MSG:A MSGS_CAN_TXT_MSG:A MSGS_CAN_TXT_MSG:A MSGS_CAN_TXT_MSG:A

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MSGS CAN TXT MSG:A MSGS CAN TXT MSG:A

- Messages can pix (link location- OK.9,1,3)

MSGS CAN PIX MSG:A What's UP! MSGS CAN PIX MSG:A MSGS CAN PIX MSG:A

- Multimedia Messaging Service

MMS_LAYOUT:I 0 MSGS_PRIORITY:I 1 SAVE_MEDIA_FILE_:I SAVE_MEDIA_FILE_:I 0 SAVE_MEDIA_FILE_:I 2 SAVE_MEDIA_FILE_:I 0 FLIX_MSG_SIZE:I 200 MAX_FLIX_SIZE:I 199680

- Short Message Service

SMS_MO_SO:I 1 SMS_MO_ENABLE:I 1 SMS_RESEND_PERIO:I 1 SMS_RESEND_COUNT:I 3 SMS_MO_MSG_SIZE:I 160 SMS_TRANSPORT_CH:I 0 SMS_DATA_ENCODIN:I 0 SMS_EMAIL_WORKAR:I 0 SMS_TIME_ADJUST:I 0 SMS_DEF_DELV:I 1 SMS_DEF_DELV:I 1 SMS_EMAIL.STD_EN:I 0 SMS_AUTO_SAVE:I 1 -(Short Message Service Mode S??? O???
-(Short Message Service Mode Enable)
-(Short Message Service Resend Period)
-(Short Message Service Resend Count
-(Short Message Service Mode Message Size)
-(Short Message Service Transport Channel)
-(Short Message Service Data Encoding)
-(Short Message Service Email Work Ar???)
-(Short Message Service Default Delivery)
-(Short Message Service Email Standard)

-(Short Message Service Auto Save)

- Number Assignment Module

NAM_1_CALLBACK_N:A (phone number) NAM_2_CALLBACK_N:A 0000002747

DELIVERY_ACK:I 1

- Short Message Service Center Option

SMSCENTER_OPT_1:I 000000000 SMSCENTER_OPT_2:I 000000000 SMSCENTER_OPT_3:I SMSCENTER_OPT_4:I SMSCENTER_OPT_5:I SELECTED_SMSCENT:I 0

- Default Daylight Saving Time Option

DEFAULT_DST_OPT_:I 000000000 DEFAULT_DST_OPT_:A 000000000 DEFAULT_DST_OPT_:A DEFAULT_DST_OPT_:A DEFAULT_DST_OPT_:A SELECTED_DEFAULT:I 0 DEFAULT_VALIDTY_:I 0 DEFAULT_VALIDTY_:I 0

-Multimedia Messaging Service Provision Lock Code

MMS_PROVISION_LO:A 450667

PIC_MSG_SERVER:A http//mms.metropes.net

-Multimedia Messaging Service

((Menu 3, *, 450667)) MMS_UPLOAD_DOMAI:A (phone number)@mml.mymetropcs.net MMS_UPLOAD_DOMAI:A (phone number)@mml.mymetropcs.net MMS_PIX_PLACE:A @onlinealbum.metropcs.net MMS_UA PROFILE:A http://uaprof.metropcs.net MMS_USER_AGENT:A sam-r450 MMS_USERNAME_COM:A MMS_PASSWORD_COM:A MMS_PASSWORD_COM:A MMS_AUTH_MODE:I 0 MMS_UPLOAD_DOMAI:A MMS_UPLOAD_DOMAI:A MMS_UPLOAD_DOMAI:A MMS_UA_HEADER:A MMS_MMS_LINE_ID:A MMS_PIX_PLACE_LA:A 666612

- Picture Message Server Terminal

PIC_MSG_SERVER_T:A http://211.232.66.170/mms

-Multimedia Messaging Service User Name

MMS_USERNAME:A sktelecom

-Multimedia Messaging Service Password

MMS_PASSWORD:A

- Picture Message Server Download

PIC MSG SERVER D:A http://222.231.61.41/mms

(phone will locked up, remove battery to reboot it)

Define :I (Integer)(Digits)(The "I" - Most are Numbers used) Define :A (Amount)(The "A" - Most are Letters used)

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MENU LIST AND SETTINGS

*1 Contacts

- \circ Find
- Add New Contact
- Speed Dial
 - 1-Voice Mail
 - 2- Unassigned -210
 - 211 Reserved
 - 212- Unassigned -310
 - 311 Reserved
 - 312- Unassigned -410
 - 411 Reserved
 - 412- Unassigned -610
 - 611 Reserved
 - 612- Unassigned -910
 - 911 Reserved
 - 912- Unassigned -999

	- 712- Unassigned -777
0	Group
0	Metro411
	 (Open Slide)
0	Memory Info
14	Total 500
	Used 1
	Free 499
* 2 CA	
0	Outgoing Calls
0	Incoming Calls
•	
0	Missed Calls
7 .5	
0	All Calls
0	Call Timer
	Last Call
	Outgoing Call
	Incoming Call
	 Roaming Call

- o Data Counter
 - Transmit

- Received
- Total
- Last Rest
- Lifetime Data Count

✤ 3 MESSAGES

0	1. Send Message
	n/a
0	2. Email
	n/a
0	3. IM
	n/a
0	4. Inbox
-	n/a
0	5. Outbox
	n/a
0	6. Draft
	n/a
0	7. Voicemail
	n/a
0	8. Erase Messages
Pill Pill	Inbox
	 Outbox
	 Drafts
	All Messages
	9 Meg Sattings
	✓. Nisg Settings
	-1.0
	• 1. Auto Sale
	\circ On $<$
	o Prompt
	• 2. Auto Erase
	\circ On $<$
	\circ Off
	 3. Quick Text
	○ 1 What's Up!
	 2 Let's meet.
	• 3 Check this out!
	 4 Whacha doing?
	○ 5 Thanks

- 6 What do you think?
 - 7 Your've gotta be here to enjoy this.
 - 8 Would you like to join me for a date tonight?
- 9 On my way.
- \circ 10Yes
- o 11 You're the best!

		\circ 12 Call me.
	•	4. Voicemail #
		• (Cell number)
	•	5.Entry Mode
		o T9 Word
		\circ Abc \leq
		\circ ABC
		o 123
	۲	6. Callback #
		o Off ≤
		o On
	_	• (Cell number)
	٠	7. Signature
		• None<
		• Custom
	_	0
	۲	8. Reminder
		• Once
		• Every 2 Minutes
		• Every 15 Minutes<
	a m	○ Off
	2. <u>Te</u>	ext Message
	٠	1. Auto View
		• On
	·	o Off≤
	۲	2. Signature
		• None<
	r—	o Custom
	۲	3. Auto Scroll
		o On
r	-175 (ARA) (AS	o Off <
	3. <u>Pic</u>	cture Message
	٠	1. Auto Receive
		• On
		o Off<
	۲	2. Signature
		• None<
	·	o Custom
		3. Reply

• MetroWEB

6 Voice SVS (voice recognition software)

- Voice Commands 0
 - Call <Name or #>
 - Send Text <Name>
 - Send Picture <Name>
 - Lookup <Name> 飅
 - Go To <Menu> 圜
 - Check <item>
- Voice Settings
 - 1. Choice List
 - Automatic< .
 - Always On .
 - Always Off •
 - 2. Sensitivity
 - Reject More •
 - Recommended •
 - Reject Less

3 .	Digit Dialing
	Adapt digits
	Reset Digits
• 4.	Sound
	• Prompts
	\circ On \circ Off
	• Digits
	\circ On \circ Off
	• Names
	o On≤
	\circ Off
	Name Settings
	o Speed
	o Volume
• 5.	Voice Launch
	• Key Only <
	• Key/EarMic
6 .	About

VoiceSignal V2.0

Version: OIK 1951-a [LVR:5669.8] Build:1.03 Device: R450 www.voicesignal.com

* 7.	M	ultimedia
^	0	Camera
	r	
	0	My Images
	- C	Music Player
	0	My Ringtones
	0	My Sounds
* 8.	To	ols
	0	1-Bluetooth
	0	2-Calendar
	- <u>-</u>	3-Memo Pad
	0	4-Alarm Clock
	0	5-Would Time
	0	6-Calculator
	0	7- Stop Watch
	0	8-Converter
	<i>.</i>	
	0	Tip Calculator
	8	
🎌 9.	Se	ttings
	0	I-Location
		= $10cation On <$ = 911 Only
	0	2-Display Settings
	•6	• 1-Menu
		• Icon
		• List \leq

	3- <u>Clock Format</u>
	• Digital <
	 Analog
	• Off
Ì.	4-Theme
	• 2/2
	5-Dailing Font Size
	• Normal
11.	• Large
	6-Banner
	• 1-Personal
	\circ (enter text 0/12)
	• 2-ERI Banner
	o On
	\circ Off <
	7-Blacklight
	 1-Main Display

- \circ 10 Seconds 15 Seconds \leq \bigcirc 30 Seconds 0 Always On O Always Off Ó 2-Keypad 10 Seconds <Ő 15 Seconds \odot 30 Seconds 0 Always On 0 Always Off 0 **3-Brightness** 0 4-Charging • On 0 Off < \bigcirc **3-Sound Settings** 1-Volume 1-Voice Calls • Ó 2-Messages •
 - 3-Alarms

Ô

0

 MySounds
(list of tones)
• 2-Messages
 1-Text Message
My Ringertones
• (list of tones)
 MySounds
• (list of tones)
 2-Picture Message
 My Ringertones
 (list of tones)
 MySounds
 (list of tones)
o 3-Voicemail
 My Ringertones
 (list of tones)
 MySounds
 (list of tones)
 3-Roam Ringer
 My Ringertones
(list of tones)
0 MySounds
(list of tones)
■ 3-Alerts
• I-Minute Beep
\circ On \circ Off <
$\sim 2 \text{ Porming}$
\circ Off $<$
3-Call Connect
o On
\circ Off <
• 4_Power On/Off
o On
\circ Off \leq
 4-Key Tone
• 1-Tone Level

	-1-Call Answer
	Any Key
	• Send Key <
. 2	2-Auto Answer
-	• $Off \leq$
	After 1 Second
	After 3 Second
12-	After 5 Second
	3-Auto Retry
5	• Off <
	• Every 10 Seconds
	 Every 30 Seconds
	• Every 60 Seconds
I Z	4-TTY Mode
	5-Voice Privacy
	• Standard <
	• Enhanced

6-Data Settings

• Data Off <
Data For Next Call
Data Until Powered
o 5-Phone Settings
I-Airplane Mode
• On
• $Off <$
2-Language
• English <
 Espaňol
 3-Security
• ????
 4-NAM Selection
• NAM1 \leq
• Your service contract has one phone number.
• NAM2
 Your service contract has two phone numbers. The phone automatically restarts.
5-System Select
 MetroPCS Only
• Automatic $<$

Page 32 of 61

• Off

8-PC Connection

- USB Mass Storage <
- No Connection
- 9-Auto Key Lock
 - On
 - Off <

6-Memory Info

- 1-Save Options
 - 1-Images
 - \circ Phone Memory <
 - o Card Memory
- 2-Phone Memory
 - 1-Memory Usage
 - o Total Used
 o Available
 o My Images
 o My Ringtones
 0 kb

			 My Sounds 	0kb	
			• Applications	2.08mb	
			 PIC Msg 	867kb	
		• 2-	My Images		
		• 3-	My Ringtones		
		• 4-	My Sounds		
	3 -1	Card M	emory		
		• 1-	Memory Usage		
		5) - 3	• Total Used	193.35mb	
			o Available	1.71gb	
			 My Images 	12.18mb	
			o My Music	147.39mb	
			 My Ringtones 	32.53mb	
			 My Sounds 	0kb	
		• 2-	My Images		
		• 3-	My Music		
		• 4-3	My Ringtones		
		• 5-	My Sounds		
		• 6-	Format Card		
0	7-Phone I	nfo	ne and de la seconda de la seconda de la seconda de		
		Phone N	Jumber		
	1				

- No Service
- Roaming

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- Airplane
- In Use/Call
- Voice Privacy
- Data Call
- Dormant
- Speaker On
- Location On
- 911 Only
- Digital Status
- 1x Status
- Alarm On
- New Message
- TTY
- Bluetooth
- Bluetooth Connected
- Card
- Mass Storage
- Security
- Vibrate
- Ringer On
- Ringer Off
- Vibrate/Ring
- Silent Mode
- Battery Level
- Low Battery

3-Version

- -S/W: R450.BG19
- -PRL: 3003
- -ERI: 2
- -Browser: 6.2.3.8
- -@metro: 3.1.5.23
- H/W:R450.07
- 4-MEID
 - MEID Dec: (phone ID)
 - (phone ID)
 - MEID Hex:
 - (phone ID)

Technical Terms and Abbreviations v1.0

*1 •

1xEV-DO

(EV-DO) Part of a family of CDMA2000 1x digital wireless standards. 1xEV-DO is a "3G" CDMA standard. EV-DO originally stood for "EVolution, Data-Only", but recently is also referred to as "EVolution, Data-Optimized".

EV-DO provides data rates over 10 times faster than 1xRTT, the previous data technology for CDMA networks. Unlike other "1x" standards, EV-DO only addresses data - not voice. It requires a dedicated slice of spectrum, separate from voice networks using standards such as 1xRTT.

There are currently two main versions of 1xEV-DO: "Release 0" and "Revision A". Release 0 is the original version, and the first to be widely deployed. Rel. 0 offers data rates up to 2.4 mbps, averaging 300-600 kbps in the real world. This is much faster than the 50-80 kbps typically offered by 1xRTT technology. Rel. 0 data rates are identical to 1xEV-DV Revision C. Revision A integrates most of the faster data technology from 1xEV-DV Revision D, and improves latency. These enhancements allow features such as VoIP and video calling. Although EV-DO does not include voice capability natively, Rev. A is fast enough to support VoIP technology at service levels equal or better to 1xRTT voice technology. This may be a future upgrade path for CDMA carriers if EV-DV development remains stalled. In terms of data speed and general technology evolution, the closest equivalent to EVDO for GSM/WCDMA networks would be HSDPA. 1xEV-DO is based on a technology initially known as "HDR" (High Data Rate) or "HRPD" (High Rate Packet Data), developed by Qualcomm. The international standard is known as IS-856.

*3

<u>3G</u> - Stands for 3rd-generation.

Analog cellular phones were the first generation. Digital phones marked the second generation (2G).

3G is loosely defined, but generally includes high data speeds, always-on data access, and greater voice capacity.

The high data speeds are possibly the most prominent feature, and certainly the most hyped. They enable such advanced features as live, streaming video.

There are several different 3G technology standards. The most prevalent worldwide is UMTS, which is based on WCDMA. (The terms WCDMA and UMTS are often used interchangeably.) UMTS is the 3G technology of choice for most carriers that used GSM as their 2G technology. See: WCDMA

The other major standard is cdma2000, which is an evolution of CDMA 2G technology. There are several types of cdma2000, each offering different data rates and levels of compatibility with 2G CDMA. EV-DO Rev A is the most common today. See: EV-DO

* A.

AWS - Advanced Wireless Services

A specific band of radio frequencies (spectrum) intended to be used for next-generation wireless broadband services. Most of the spectrum will be used for 3G mobile phone service, using technologies such as WCDMA+HSDPA or CDMA EV-DO. The AWS bands were auctioned off

by the FCC to private companies in August 2006. AWS is actually a set of paired bands, meaning it consists of two bands: one for base stations (towers) to transmit to mobile terminals (phones) and another band for phones to transmit back to towers. Those bands are sub-divided into smaller "blocks" that are owned by different companies. The spectrum is also divided regionally, so one AWS license covers one block, for one geographic area of the country. The two initial AWS bands are 1710-1755 MHz and 2110-2155 MHz. Additional, smaller bands have also been proposed as an add-on to AWS, but they have not yet been finalized or auctioned off (as of August 2006.) See: <u>FCC</u>

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See: <u>SPECTRUM</u> See: <u>3G</u> See: <u>HSDPA</u> See: EV-DO

- AGENT
- AWIM

* B.

- BKLT
- BRW
- Brew
- BREW

Binary Runtime Environment for Wireless

A solution developed by Qualcomm for downloading small applications and content to mobile phones. Found almost exclusively in CDMA phones. The primary component lets users download and run small software applications on wireless devices, including phones. Such applications might include games, expense tracking software, or interactive map tools. This component of BREW competes with J2ME, a Java technology from Sun Microsystems. BREW and Java are generally not compatible. The BREW subsystem on a phone can also manage graphics and ringtones. The BREW solution also includes a server component which resides on the network. The BREW server manages the network side of BREW downloads, including billing, and can also serve and bill for non-BREW applications and conten

<u>BLUETOOTH</u>

A short-range wireless technology used to create PANs (Personal Area Networks) among your devices, and with other nearby devices. Bluetooth allows you to leave your phone in your pocket, while talking on your phone with a Bluetooth headset - with no wires. You can also exchange contact or scheduling information with other Bluetooth-enabled phones nearby, or send such information to a nearby Bluetooth-enabled printer. Another common use is to give your laptop computer or PDA wireless high-speed Internet access via Bluetooth and your phone. Many newer automobiles also have Bluetooth, which can interface with a phone in a pocket, to allow automatic hands-free phone capability.

More innovative uses include playing a game against someone with a similar phone nearby, or using a special Bluetooth pen to send SMS messages by simply writing them on paper. Bluetooth functionality is divided into separate types of connections known as "profiles". Each of the various scenarios outlined above involve a different profile. Not all Bluetooth devices support all Page 36 of 61 profiles. For example, most phones support the Headset (HSP) and Handsfree (HFP) profiles, for connecting the phones to headsets and car kits, respectively. But not all phones support the Object Exchange (OBEX) profiles, which let you transfer files (like photos) (FTP) and/or information (like contacts and events) (OPP) to and from other devices. Another profile supported by only some phones is Dial-Up Networking (DUN), which lets you connect a laptop or PDA to the Internet via the phone. Other optional profiles support connecting to printers (BPP), keyboards (HID), and stereo headphones (A2DP, AVRC). Most Bluetooth phones are "class 2", which means the Bluetooth feature has a range of up to 30

feet. Class 1 phones (which are rare) can have a range of up to 300 feet. Bluetooth is named for the 10th century Viking king Harald Bluetooth, who united Norway and Denmark.

♦C.

• <u>CH</u>

Channel

• <u>CDMA850</u>

(CDMA 800) CDMA 850 is CDMA technology operating in the Cellular (800 MHz / 850 MHz) frequency band. Before the existence of GSM 850, the Cellular band was commonly referred to as the "800 MHz" band. "850 MHz" implies a different frequency band, but this is not the case. "800 MHz" and "850 MHz" refer to the exact same frequency band. 850 is technically a more accurate description of the frequency range, although "800" is still common.

• <u>CDMA 1700</u>

A mode, which in this context means a combination of a technology and a frequency band. In this case, it is CDMA technology and the AWS frequency band. The AWS frequency band has two parts, one near 1700 MHz and another near 2100 MHz. To avoid confusion with Europe's (quite different) "2100" band, Phone Scoop refers to AWS simply by the 1700 part, hence "CDMA 1700". Note that this is completely US-centric terminology. South Korea also has a frequency band at 1700 MHz, that is different from AWS. Therefore Korean "CDMA 1700" phones are different than US "CDMA 1700" phones. Korean CDMA 1700 phones are not compatible with US CDMA 1700 networks, nor vice-versa.

• <u>CDMA2000</u>

(1x) cdma2000 is a third-generation (3G) wireless technology that is evolved from existing CDMA 2G technology. Its main features are faster data rates, always-on data service, and improved voice network capacity (more people can use each tower at the same time). cdma2000 will be deployed in at least three phases. The first, 1xRTT, supports up to 144 Kbps packet data speeds. It also doubles voice capacity over previous CDMA networks (IS-95). The second release of 1x, 1xEV-DO, will support data rates up to 2.4 Mbps. It can only be deployed separately from voice networks - in its own spectrum - although devices can be made to access both networks. The third, 1xEV-DV, supports circuit and packet data rates up to 3-5 Mbps. It fully integrates with 1xRTT voice networks.

A possible fourth phase is cdma2000 3x, although it uses three times as much spectrum.

• <u>COD</u>

Code - password or numbers

* D.

- <u>DM</u>
- <u>DS</u>

•	DIF
	DIM
٠	DEF
	Default
	DELV
	Delivery
•	DRM
	(Digital Rights Management)
	Technology designed to manage, control, or track the distribution and/or use of copyright-
	protected data.
	In phones, DRM is used to prevent or control actions such as sending downloaded ringtones,
	graphics, and video to other people.
	DST
71' Ve	Daylight Savings Time

• <u>DOMAI</u> – Domain

• <u>**DUN</u> - Dial-Up Networking**</u>

A Bluetooth profile (mode) that is designed to link an Internet-enabled device such as mobile phone to a device such as a laptop or PDA so it can access the Internet. DUN will therefore allow you to connect you Bluetooth-enabled laptop to the Internet via your Bluetooth-enabled phone and wireless service. Because it works over Bluetooth, the link is wireless, so there is no cable; you can leave your phone in your pocket or purse. See: Bluetooth

₩E

* F

• <u>E2E</u>

• ESN - Electronic Serial Number

A permanent 32-bit number embedded by the manufacturer that uniquely identifies a wireless communications device. ESNs are most commonly used in phones and devices using CDMA technology. GSM phones use a similar type of code called an IMEI instead.

• <u>EMAIL</u>

• END KEY

<u>FCC</u> - (Federal Communications Commission)

The Federal Communications Commission (FCC) is an independent United States government agency, directly responsible to Congress. The FCC is charged with regulating interstate and international communications by radio, television, wire, satellite and cable. The FCC's jurisdiction covers the 50 states, the District of Columbia, and U.S. possessions. The FCC's Office of Engineering and Technology (OET) certifies all mobile phones intended for use in the US, insuring compliance with spectrum allocations, technical standards, and safe SAR Page 38 of 61 (radiation) levels. The FCC also manages the spectrum allocated to the various mobile phone carriers, via a system of licenses. Each license covers a specific range (band) of frequencies, and a specific geographic area.

• <u>FLIX</u>

* G.

↔H.

• <u>HFK/FTC</u> • <u>HTTP</u>

☆I.

• **IMEI** - International Mobile Equipment Identifier

A 15-digit number (composed of four parts) that uniquely identifies an individual wireless device. The IMEL is automatically transmitted by the phone when the network asks for it. A

I	device. The initial is automatically transmitted by the phone when the network asks for it. A
	network operator might request the IMEI to determine if a device is in disrepair, stolen or to
	gather statistics on fraud or faults. IMEI is most commonly used in GSM and WCDMA (UMTS)
	phones. It is embedded in the phone, not the SIM card. CDMA phones use a similar type of
	number called an ESN.

• <u>IP</u> - IP stands for "Internet Protocol".

A standard protocol designed for use in interconnected systems of packet-switched computer communication networks. The basis of the Internet, and the standard that will eventually be used for most wireless 3G network infrastructure.

• <u>INTL</u>

A'A	811	
No.	1	÷.,
2.00		0.00

 TZ
K
L h.

A.

LXL

• <u>LIF</u> – Life

•	LIFETI – Life Time
•	LPRESS –

LCD - Liquid Crystal Display.

The predominant display technology used in mobile phones. LCD displays have low energy requirements and are generally easy to read. LCDs in mobile phones generally work by transmitting or blocking light across a grid of extremely tiny square areas called "pixels". Monochrome (black & white) LCDs in phones also usually have both a backlight and a reflective backing, allowing them to be equally usable in both bright light and complete darkness. Color LCDs come in many types. STN, TFT, and TFD are several common technologies used. STN features low power consumption and low cost, at the expense of image quality. TFT features excellent image quality and response time, but is expensive and consumes more power. TFD combines the best of both. Colors LCDs can also be transmissive, reflective, or transflective. Transmissive displays are only designed to allow or block light from a bright backlight. They have excellent brightness and saturation in low or medium light, but do not work well in bright light. Reflective displays are the opposite - they work best in bright light, but in dim light they rely on a "frontlight" instead of a backlight, which usually produces a "washed-out" look. Many newer LCD displays are "transflective", meaning they combine the best properties of both transmissive and reflective displays. Transflective LCD displays have backlights that provide good brightness and color in dim and medium light, while also working well in bright light such as outdoors.

* M.

• <u>MO</u>-

• MP3 - MPEG-1 Audio Layer 3

MP3 is a common file format for music and other audio content. It is commonly used on the Internet, on PCs, and on portable devices, including dedicated music players and phones with music player functionality. Some phones that do not have full music-player functions may support the MP3 format for short music clips that play as ringtones. Unlike some formats, MP3 files usually do not include DRM technology that would limit playback and sharing. MP3 files can be created at different "bit rates". Higher bit rates offer better sound quality, but also increase file size, requiring more memory space to store.

• MSGS – Messages

<u>MDN</u> - Mobile Directory Number

The actual phone number one would dial to reach a specific mobile phone. Prior to Wireless Number Portability, MDN was the same number as the MIN for many mobile phones. But now that MDN numbers can be ported (moved) to other carriers, MDN and MIN will be different for ported numbers.

• <u>MEID</u> - Mobile Equipment Identity

An ID number that is globally unique for each new CDMA mobile phone in the world. It identifies that phone to the network, and can be used to flag stolen or lost phones. MEID is a replacement for ESN (electronic serial number). MEID began replacing ESN in 2005. See: <u>ESN</u>

• ESN numbers are 32-bit, while MEID numbers are 56-bit.

A 32-bit ESN means there are only 4 billion unique ESN numbers. Combined with other constraints, enough CDMA phones were produced by the end of 2005 that the industry started to run out of unique ESNs.

With 56 bits, MEID provides for over 16 million times as many unique numbers as with the ESN

	Page 40 of 61 system, ensuring the world will not run out of numbers again. However, MEID support must be added to all new CDMA phones, and all CDMA networks must be upgraded to support MEID. MEID is equivalent to IMEI for GSM and WCDMA phones. MEID is also designed to be compatible with IMEI for phones that include both CDMA and GSM/WCDMA technology. See: IMEI
•	Maltrace - Maltrace Log Enable/Disable to "Enable" Maltrace Log
_	
•	MMS - Multimedia Messaging Service
	MMS is a descendant of SMS (Short Messaging Service). MMS extends text messaging to include longer text, graphics, photos, audio clips, video clips, or any combination of the above, within certain size limits. MMS is frequently used to send photos and videos from camera phones to other MMS phones or email accounts. Most camera phones have MMS, but many non-camera phones have it as well. Many newer MMS phones also support SMIL, which allows various parts of an MMS message to be arranged into a small multimedia "slideshow" to be viewed on another SMIL-capable MMS phone. See: <u>SMIL</u>
*N.	
	NA
•	NAM - Number Assignment Module.
-	A part of the phone that stores a wireless device's phone number, lock code, timer reset code and other user information. The NAM is programmed by the service provider when a device is activated. The NAM also associates the Mobile Identification Number (MIN) with the Electronic Serial Number (ESN). Some wireless phones have dual or multi-NAM features which allows the user to have more than one phone number. (Two "lines" on one phone.) NAM1 or NAM2.
* O.	
•	OMB - Open Mobile Broadcast
•	OPT
↔P	
	PCS - (Personal Communications Services)
	 The FCC-licensed frequency band near 1900 MHz. A marketing term used to describe a wide variety of two-way digital wireless service offerings operating at 1900 MHz.
•	<u>PIX</u> –
	PPP - Point-to-Point Protocol
	A method of connecting a computer to the Internet. PPP is more stable than the older SLIP protocol and provides error checking features. Working in the data link layer of the OSI model, PPP sends the computer's TCP/IP packets to a server that puts them onto the Internet.
•	PORT -
	1. A physical connector that mates with another connector (usually a type of plug on the end of a cable) to electrically connect two devices. For example, a charging port connects a phone to a

power source to recharge the battery. A data port allows a phone to connect to a PC or other device for various types of data transfer. Also called a "jack" or simply "connector". 2. The act of "porting", or transferring, a phone number from one carrier to another.

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- <u>PREV</u> Preview
- <u>PROXY</u>
- <u>**PWRUP**</u> Power Up
- <u>PWROF</u> Power Off

◆Q.
◆R.
▲ <u>RC</u>

• <u>**RF</u>** - Radio Frequency</u>

RF can refer to anything related to radio signals, which are invisible electromagnetic waves created by applying a pulsing electric current to an antenna. "RF" generally refers to the radio waves themselves, or systems that handle radio signals directly, such as the circuits connected directly to the antenna. Technically, RF is the 10 kHz to 300 GHz frequency range of the electromagnetic spectrum that can be used for wireless communication known as radio.

• <u>REC</u> – Received

SMS is a feature available with practically all modern mobile phones that allow users to send and receive short text messages. Basic SMS messages are addressed directly to a mobile phone number. Most U.S. carriers now allow sending to mobile phone numbers of other carriers. Most phones and carriers also support sending SMS from a phone directly to an email address. Newer variants of SMS include Long (Concatenated) SMS, and EMS. See: <u>Text Messaging</u>

<u>SMIL</u> - Synchronized Multimedia Integration Language

SMIL (pronounced "smile") is a standard for interactive audiovisual presentations. In mobile phones, SMIL is used for MMS messages that integrate streaming audio and video with images, text or any other media type. A SMIL presentation typically includes multiple "slides", that play in sequence. See: MMS

SPECTRUM

In wireless, this refers to the radio portion of the electromagnetic spectrum. The radio spectrum spans a certain, limited frequency range. Multiple signals can be transmitted simultaneously on different frequencies. But if the frequencies are the same, or even too close, the signals interfere with each other. Furthermore, radio signals spread out and fade over geographic distance. So while two radio transmitters on the same frequency, in the same city, might interfere with each other - if they were in different cities, they would not interfere. Weaker transmitters, such as cordless phones, can remain separate, at the same frequency, at much shorter distances. Since the number of discrete frequencies is limited, in the US, the FCC (Federal Communications Commission) governs the allocation of these frequencies. The FCC ensures that any two transmitters in one area and frequency won't overlap and interfere. This is called spectrum allocation. Sometimes spectrum is sold to companies via auction. Sections of spectrum are called "bands". The portions of spectrum set aside for wireless mobile phone service are split into two bands. The first is Cellular, which is centered roughly around 800 MHz. The second is PCS, which is centered roughly around 1900 MHz. Each of these bands are further subdivided into blocks, and these blocks are then licensed to individual wireless carrier companies.

<u>SVC</u> - Voice recognition software

Voice Signal, state-of-the-art voice recognition software that lets you use your voice to dial numbers, access your Contacts list, and open Tools

☆T.

- <u>TES</u> Test
- <u>TRA</u> Transmit

<u>TOT</u> – Total

• TCP/IP

UA

Abbreviation for Transmission Control Protocol/Internet Protocol. Two interrelated protocols that are part of the Internet protocol suite. TCP breaks data into packets. IP routes packets. TCP/IP was originally developed by the U.S. Department of Defense.

<u>Text Messaging</u>

Also called SMS (Short Message Service) - allows short text messages to be sent and received on a mobile phone. Messages can be sent from one phone to another by addressing the message to the recipient's phone number. Messages can also usually be sent to a phone via a special email address, through the carrier's web site, or with special messaging software and a modern. Most phones and carriers also allow messages to be sent from a phone directly to an e-mail address. See: SMS

∜U.

•	UART - Universal Asynchronous Receiver/Transmitter
(Å -)	A microchip with programming that controls a computer's interface to its attached serial devices.
	Specifically, it provides the computer with the RS-232C Data Terminal Equipment (DTE)
	interface so that it can "talk" to and exchange data with modems and other serial devices. As part
	of this interface, the UART also:
	Converts the bytes it receives from the computer along parallel circuits into a single serial bit
	stream for outbound transmission
	On inbound transmission, converts the serial bit stream into the bytes that the computer handles
	Adds a parity bit (if it's been selected) on outbound transmissions and checks the parity of
	incoming bytes (if selected) and discards the parity bit
	Adds start and stop delineators on outbound and strips them from inbound transmissions
	Handles interrupt s from the keyboard and mouse (which are serial devices with special port s)
	May handle other kinds of interrupt and device management that require coordinating the
	computer's speed of operation with device speeds
	More advanced UARTs provide some amount of huffering of data so that the computer and
	social devices data streams remain accordinated. The most recent UAPT the 16550 has a 16 but
	serial devices data streams remain coordinated. The most recent UART, the 10550, has a ro-byte
	LADT must be 8250. If you must be an internal medan to day it must also a 16550
	UART was the 8250. If you purchase an internal modern loday, it probably includes a 16550
	UART (although you should ask when you buy it). According to modern manufacturer US
	Robotics, external modems do not include a UART. If you have an older computer, you may
_	want to add an internal 16550 to get the most out of your external modem.
•	<u>UMA</u> - Unlicensed Mobile Access
	technologies, such Bluetooth or Wi-Fi (802.11). A UMA phone will use a cellular networks (GSM, CDMA, etc.) when out and about, and automatically switch to a UMA-enabled Bluetooth or Wi-Fi local network when in range, such as at home or in the office. In local mode, a complete, virtual GSM or CDMA connection is "tunneled" to the carrier via the Bluetooth or Wi Fi connection and the Internet. This allows seamless, transparent use of all services at all times, including voice, messaging, and data services. This hybrid approach allows fulls mobility, while offering consumers better coverage, faster data rates, and lower service costs when using the local network. The technology can also lower infrastructure costs for carriers, by reducing load on networks in densely populated areas, and reducing the need for towers in sparsely-populated residential areas.
	UMTS - Universal Mobile Telecommunications System
1.5	A third generation (3G) mobile communications technology that promises data transmission
	speeds of up to 2 megabits per second (Mbps) although actual speeds may be significantly lower
	at first due to network canacity restrictions LIMTS uses WCDMA technology and the two
	terms are often used interchangeably with each other
	See: WCDMA
	Sec. WODMA
¥∙ V .	
	VISUALIZER - Granhie screen display
1.5	TISCALIZZER - Graphic screen display
10552	
₩.	
	WAP -Wireless Application Protocol
1.4	A tashnalaan dasionad to allow afficiant transmission of antimized laternat context to call
	A technology designed to anow efficient transmission of optimized internet content to cell
	phones, wAr version i rened on the WML markup language and special protocols designed for

ultra-efficient transmission of content to limited devices over limited connections. WAP version 2 relies on a whole new set of standards that have much more in common with Internet standards used on the web. Although not as efficient as WAP 1.x, more powerful devices and faster wireless data technologies make this change possible, which has numerous advantages for publishers, enabling much more and better content to be available for mobile devices.

WCDMA - (Wideband Code Division Multiple Access)

Wideband CDMA is a third-generation (3G) wireless standard which utilizes one 5 MHz channel for both voice and data, initially offering data speeds up to 384 Kbps. See: 3G

WCDMA is also referred to as UMTS - the two terms have become interchangeable. See: <u>UMTS</u>

WCDMA is the 3G standard that most GSM carriers are moving to. Parts of the WCDMA standard are based on GSM technology. WCDMA networks are designed to integrate with GSM networks at certain levels. Most WCDMA phones include GSM as well, for backward compatibility. WCDMA borrows certain technology ideas from CDMA, as the name implies, but is in fact very different and incompatible with phones and networks using "CDMA" technology. In Europe and Asia, WCDMA is being deployed in the all-new 2100 MHz frequency band. In North America, WCDMA is being deployed in the existing 1900 MHz (PCS) and 850 MHz (cellular) bands, as well as the newer 1700 MHz (AWS) band.

See: AWS

WORKAR

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FTM (Field Test Mode)

In a future version I will try to add more phones of this area.

BEFORE YOU EDIT THIS AREA YOU SHOULD SAVE SOME INFORMATION!!!

DO NOT START THIS AREA UNTIL YOU HAVE READ AND VIEWED IT

ONE WRONG MOVE AND YOUR PHONE WILL <u>STOP</u> WORKING!!

It happen to me in just one push of a wrong number.

The cost of getting this information for you cost me a phone.

FIRST:

Get this information and write it down.

Your SID number.

4 Settings

> Service Programming

*, 587846 (OK, 9, *, 587846) (phone reboots when done editing)

- Service Programming
 - Phone Number
 - Phone Number(MDN)

 \Rightarrow (*Phone Number*) \leftarrow need this information

MIN

Network Setting

 \circ MIN

 \Rightarrow (*Phone Number*) \leftarrow need this information

- Home SID
 - Enter SID
 - 5007 ←need this information

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NEXT:

SAVE YOUR PIXs to your MicroSD card. It will remove all pics on your phone. <u>REMOVE YOUR MICROSD CARD NOW!!</u>

THEN

Save or write all your phone numbers. It <u>WILL DELETE</u> them. Save any messages you want to keep.

You have been warned guys that your stuff may be LOST!

You can not save games, Loopt, MSN or anything you have paid to downloaded.

ALL WILL BE LOST!

IF YOU STILL HAVE THE BALLS GO FOR IT..!

Don't cry when its gone... Or You can't get you phone to work..

Don't send me Emails asking me how to get your stuff back...

I will tell you to go to the store, and good luck.

This mode is part of the heart of this phone and will make or break your phone very fast. If miss type a number wrong even one time you're phone can remove <u>ALL YOUR STUFF</u>.

START: Basic understanding

Your "SEND" and "END" buttons

The Green SEND, numbers up Red END, numbers down

"OK" will SAVE (some times)

The "*" and "#" "*" will SAVE

"#" back to <u>EDIT</u> line with the dots \rightarrow 002

(If you type a number in to any area and you have saved it and want to move on or out of this edit mode push and hold the # until you see the dots show up at the bottom)

You can enter a new number into some areas like this:

169← Area Number XTKSL← Information 587846← Edit line

On the edit line just type in the new number and push "OK" to save (You can not change some information/numbers) (You can not change the names of the listings)

EXIT MODE:

Enter 002 to exit this mode (In this mode I found it to be easiest to exit this mode back to the phone screen) *PHONE WILL REBOOT*

-PHANTOMS-

Note:

Some lines will not go away in(FTM) manual edit mode, it will give you a false look sometime or information from some other line that didn't get cleared from one screen to the next screen.

Pay attention when you enter each area, so you see any new c+-hanges.

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OPEN THE FTM TO EDIT

All you will see is lines like this:

Tai + S S 200	MANUAL FTM

NOTE:

Enter the Area Number (if you type it wrong STOP and push "#" before the last number. Otherwise it will do what ever you typed and you don't get to fix it.)

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Looks like this:

MANUAL FTM
INVALID
Meldy Test Mode
My Ring tones
234.128

The number you change is on line 6 or it maybe a Yes/No setting.

DO NOT PUSH , 027 , 073 , 075 , 181 , 186 , it removes your information. It cost me a phone just to find out for this manual, that's no joke!

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◆回 @ 2×CB MANUAL FTM (list of numbers) NOTE: When you are in this area I would use the "suspend-001" to turn off your signal then you can edit it without text messages or calls interrupting you. DON'T ENTER ANY THAT ARE IN !! RED !!. All other colors are used to better see the listings. (Default setting ">") 000-n/a CDMA_Txagc -52 234 001-PCS SUSPEND 033- Undefined Command 020- CH_FLATNESS (turns off signal) (reboot will turn on) 034- CDATA [chan 0] 430 -52 002-Restart Phone 021-Set_SIO_Mode 035- Product Info 003-SAVE DATA DM on Uart PRODUCT NUMBER 269 Õ. -52 HFK on Uart 004-WRITE_NV 036- Product Info 0 PRODUCT NUMBER 269 022- TEST_S 00000000 005- Undefined Command 00000 006- Undefined Command 037- Clear Lifetime 007- Undefined Command 023-00000000 Send S/WYer 008- Undefined Command 038- Undefined Command 009- Center_Txras_Adj 024-039-BackupCalData C:-25.1 P.A:-25.1 Send ESN 275 00000 040-RestoreCalData 010- Undefined Command 025-Blacklight 00000 041- Undefined Command 011-Carrier_On 269 042- Undefined Command 012-Carrier_Off 269 026-Led Test 043-DTMF_On 00000 013-Load_synth 044-DTMF_Off 11 027- Rebuild !! 1175 045- Undefined Command (DON'T PUSH) 014-CDATA (System rebuilds) 046-Vibrator_Test (start) -2500 (back to Factory settings)

015- Cdtrk_Adj 291

016-Yga Offset -250 (number moves)

017-LNA Offset PL1-80. CL1-90.0 162 (number moves)

018-Set_IM2 IQT 000 000 000

019-CDMA Txago

(Your Phone will stop working) (The DEC and HEX are removed) (no know fix for this setting yet)

028- Undefined Command

029- SUBLCD Contrast 063

030- Undefined Command

031- MRU Table MRU[00] 00000

032-DVGA Offset

047-Vibrator_Test (Stop) 048-Battery_type 3(82) 049-Lna_range_Set Lna[1] 1175 Lna[2] 1175 Lna[3] 1175 Lna[4] 1175

050-EraseCalData

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3(83)

051- n/a

052-PCS Temp Comp -30°C[00] 00000 -20 C[01] 00000 -10°C[02] 00000 -0'C[03] 00000 +10°C[04] 00000 +20°C[05] 00000 +40°C|06 00000 +60°C[07] 00000 053- Carner ID

00000 00000

054- Therm_Read 00144

055- Ybat Read val Ybatt Read 00181

056- Ybat Read val Ybat t Read_stanby 170

057- Undefined Command

058- HDR_Txras_Adj Index 0/32 0 Index 1 to 32 0

059- Undefined Command

060- Test Spare Item Spare_D1 0000000000 Spare_D2 0000153603 Spare_D3 Spare_D4 Spare_D5 Spare_D6 Spare_D7 Spare_D8 Spare_D9 Spare_D10

0000000000

061- Yga_Offset Yga_Offset -347

062- Undefined Command

063- Set_IM2 I Q T 000 000 000

064- Set_IM2 I Q T 000 000 000

065- Set_IM2 I Q T 000 000 000

066- Set_IM2 I Q T 000 000 000

067- Undefined Command 068- Undefined Command 069- Undefined Command 070- Undefined Command

071- CDMA_Txagc CDMA_Txagc 234

072- CDMA_Txagc CDMA_Txagc 234

II 073- Clear Memory II (CLEARS ALL INFO) (DON'T PUSH)

074- RD RASSI: 627m

II 075- Clear Memory II (RESETS EVERYTHING) (DON'T PUSH)

076- Undefined Command 077- n/a 078- n/a

079- PDM1_value 0 080- PDM2_value 0 081-PCM Loop On 0 082- PCM Loop Off 0 083- n/a 084- n/a 085- Undefined Command 086- Undefined Command 087- Trk LO Adj 00000 088- Cdtrk Adi 255 089- n/a 090- n/a 091-PA RANGE 0 255 092-PA RANGE 1 255 093- n/a 094- n/a 095- n/a 096- n/a 097- Undefined Command 098- Undefined Command

099- Set_SIO_mode HFK on Uart

(arrow right) (0 or 1)

(arrow up) (HFK on Uart) (DM on Uart)

100- Melody Test Mode My Ringtones Bell 1 High

(arrow up/down) Bell 1 Bell 2 Bell 3 Alert 1 Alert 2 Samsung Tune Sunny day Jazz Bar LatinaLady Dive Joyful Holiday Garage in the backyard Watercolor Painting Nightless City Funky Marionette Car Ride Dandelion Good Morning Postcard Snowliake Shutter_1 Shutter_2 Shutter 3

(arrow left/right) (high / low / medium low / medium / medium high)

101- n/a 102- n/a 103- n/a 104- n/a 105- n/a 106- n/a 107- n/a 108- n/a

109- GPSONE_MODE (no setting)

110-GPS Setting D GPSP 0 DOP SDEY 0 GPS BCNT 0 D AWS -120 D PCS 180 D CDMA 180 D GPS 0 GPS LOSS 80 GPS LO 0 GPS ANT

111- IP_ADDRESS PDE_SERV_IP_1ST 0.0.0 PDE_SERV_IP_2ND Input IP

PDE SERV IP 3RD Input IP PDE SERV IP 4TH Input IP 112-PCS_RF_DELAY n 113- GPS RF DELAY 0 114- CDMA RF DELAY 200 115- Undefined Command 116-n/a 117-n/a 118-AWS RF DELAY AWS RF DELAY -120 119- Undefined Command 120- Undefined Command 121- Quick Boot > Quick Boot Disable 1 Quick Boot Enable 0 122-n/a 123-n/a 124-n/a 125-n/a 126-n/a 127-n/a 128- Melody Test Mode (arrow up/down) My Ringtones Downloaded Melody My Sounds (0)129- Undefined Command 130- HW rev R450.07 131- BT carrier FREQ 78 132- Undefined Command 133- BT RF Test 134- BT Loopback On/Off 135- BT Loopbk conn/dis 136- BT Loopback set dev

Device addr write 0 00 00 00 00 00 00 Device addr write 1 Input Address Device addr write 2 Input Address Device addr write 3 Input Address Device addr write 4 Input Address Device addr write 5 Input Address 137- Write BDA BDA 1ST 00:21:d1:3a:db:fd BDA 2ND Input BDA BDA 3RD input BDA BDA 4TH Input BDA BDA 5TH Input BDA BDA 6TH Input BDA 138- BT check On/Off BT ON 139- Undefined Command 140- Undefined Command 141- Dvga offset -81 Lna offset[1] 0 Lna offset[2] 181 Lna offset[3] 381 Lna offset[4] 510 ExHdet C:16,4 P.A:13.4 851 ExHdet C:18.0 P.A:15.0 60 ExHdet C:19.6 P.A:16.6 73 ExHdet C:21.2 P.A:18.2 87 ExHdet C:22.8 P.A:19.8 105 ExHdet C:24.4 P A:21.4 126 ExHdet C:26.0 P A:23.0 150 ExHdet C:27.6 P.A:24.6 179

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ExHdet C 29.2 P A 26.2 218 Lim vsFreq[Chan 0] -8 Lim vsFreq[Chan 1] 0 Lim vsFreq[Chan 2] 0 Lim vsFreq[Chan 3] 0 Lim vsFreq[Chan 4] 0 Lim vsFreq[Chan 5] 0 Lim vsFreq[Chan 6] 0 Lim vsFreq[Chan 7] 0 Lim vsFreq[Chan 8] 0 Lim vsFreq[Chan 9] 0 Lim vsFreq[Chan 10] 0 Lim vsFreq[Chan 11] 0 Lim vsFreq[Chan 12] 0 Lim vsFreq[Chan 13] 0 Lim_vsFreq[Chan 14] 0 Lim vsFreq[Chan 15] 0

142- HDET_span 0

143- Tx Limit Freq

Ch Index[0] 3 Ch Index[1] 88 Ch_Index[2] 2 Ch Index[3] -80 Ch Index[4] 85 Ch Index[5] 102 Ch_Index[6] 55 Ch Index[7] 0 Ch_index[8] 0 Ch Index[9]

0

0 Ch Index[11] 0 Ch Index[12] 0 Ch Index[13] 0 Ch Index[14] 0 Ch Index[15] 0 144-Tx Limit vs temp Temp Index[0] 3 Temp_Index[1] 88 Temp_Index[2] 2 Temp Index[3] 176 Temp Index[4] 85 Temp_Index[5] 102 Temp Index[6] 55 Temp Index[7] 0 145-AGC->ADC AGC[0] 3 AGC[1] 88 AGC[2] 2 AGC[3] 176 AGC[4] 85 AGC 5 102 AGC[6] 55 AGC[7] AGC[8] AGC[9] AGC[10] AGC[11] AGC[12] 0 AGC[13] 0

Ch Index[10]

Page 53 of 61 AGC[14] 0 AGC[15] 0 146- ADC VAL AGC[0] 00155 147-n/a 148- n/a 149- n/a 150- EC Cal ecFarendHanggoverThres 10 ecStartupMuteHangover Theres -81 nesRxAttenLevel -81 ecStartupErleThres -81 ecForceHalfDuplex esecDoubletalkHangover Thres 151- Undefined Command 152- Undefined Command 153- Undefined Command 154- Undefined Command 155- Undefined Command 156- Undefined Command 157- Undefined Command 158- Undefined Command 159- Undefined Command 160- Undefined Command 161-n/a 162- n/a 163- n/a 164- n/a 165- Undefined Command 166- Undefined Command 167- Undefined Command 168- Undefined Command 169- XTKSL 587846 (you can change this to 000000 to make code ez) 170- SPC 412950 (you can change this to 000000 to make code ez) 171-CAMERA ON OFF CAMERA OFF CAMERA ON (arrow up/down)

172- CAMERA_CAPTURE (no setting)

173- CAMERA_SAVE (no setting)

174- TX MAX POWER TEST 438

175- n/a 176- Undefined Command 177- Undefined Command

178-HW VER 07

179- Undefined Command 180- Undefined Command

<u>II 181- PL info erase? II</u> <u>0 or 1</u> 00000000

182- PL Info Write 0 00000000

183- Undefined Command 184- Undefined Command

185- Feature Reset 00000000

<u>11 186- Factory Reset 11</u> 00000000

187- Reset Varify Reset completed Reset uncompleted

188- Undefined Command 189- Undefined Command 190- Undefined Command

191- KEYTEST VERIFY Keytest uncompleted

192- (screen bright) (arrow left/right) Level:dim [13] Level:1 [11] Level:2 [10] Level:3 [8] Level:4 [7] Level:5 [6] (exit hold #)

193- (screen color)

(arrow left/right) Red Green Blue Gray / black > White (exit - hold #)

194- Undefined Command 195- Undefined Command 196- Undefined Command

197- Earphone Sense SendEnd

198- Earphone LB On/Off (no setting)

199- Playing_MP3 (Will not shut off) (makes lots of noise)

200- Snd Voc Cal Handset Mic 22531 HEADSET SPK 45058 HEADSET MIC 26197 HEADSET SPK 00055 PHFK MIC 00000 PHFK SPK 00000 HANDSET SIDETONE 00000 HEADSET SIDETONE 00000 201-Voc Calibration ec mode 1 ec mode 1 es_enable 1 tx gain 13000 dtmf tx gain 4096 codec by gain 16384 codec rx gain 16384 Codec st gain 100 Rx FIR Fiter[0] 65465 Rx FIR Fiter[1]

65489 Rx FIR Fiter[2] 20 Rx FIR Fiter[3] 633 Rx FIR Fiter[4] 1454 Rx FIR Fiter[5] 2820 Rx FIR Fiter 6 14825 202- Snd Calibration rx volume db[0] -1000 rx volume_db[1] -500 rx volume db[2] 0 rx volume db[3] 500 rx volume db[4] 1250 203- Volume Calibration Bell 1 300 Bell 2 100 Bell 3 100 Alert 1 1200 Alert 2 200 Samsung Tune 300 Sunny day 300 Jazz Bar 600 Latinal.ady 700 Dive 700 Joyful Holiday 700 Garage in the backyard 500 Watercolor Painting 500 Nightless City 700 Funky Manonette 500 Car Ride 1200 Dandelion 800

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Good Morning 500 Postcard 1200 Snowflake 1200 Headset_Key_Beep -2300

204- Spk Phone Calibration rx volume db[0] -1200 rx volume db[1] -700 rx_volume_db[2] -200 rx volume db[3] 300 rx_volume_db[4] 800 205- Spk Phone Calibration ec mode 4 ec enable 1 206- KEY BEEP KEY BEEP 1 -1900**KEY BEEP 2** -1400 KEY BEEP 3 -900 **KEY BEEP 4** -400 **KEY BEEP 5** 100 207- BT Calibration STEREO VOICE 1 -1600 STEREO VOICE 2 -1000 STEREO_VOICE_3 -400 STEREO_VOICE_4 200 STEREO_VOICE_5 600 STEREO MOD 1 -2000

STEREO_MOD_2 -1500 STEREO_MOD_3 -1200 STEREO_MOD_4 -900 STEREO_MOD_5 -600 STEREO_MOD_6 -300 STEREO_MOD_7 0

208- Headset & BT Calibration (arrow up/down) HEADSET ec mode 2 BT_Rx_fliter[6] 9419 BT_Rx_fliter[5] 836 BT_Rx_fliter[4] 65230 BT_Rx fliter[3] 65455 BT Rx fiter[2] 65363 BT Rx fliter[1] 65516 BT_Rx fliter[0] 65507 BT_codec_st_gain 0 BT codec rx gain 16384 BT codec tx gain 16384 BT dtmf bx gain 4096 BT by gain 29000 BT ns enable 1 BT ec mode 5 HEADSET Rx filter[6] 16103 HEADSET Rx filter[5] 64526 HEADSET Rx filter[4] 65364 HEADSET Rx filter[3] 65393 HEADSET Rx filter[2] 65526 HEADSET_Rx_filter[1] 65524 HEADSET_Rx_filter[0] 2 HEADSET codec st gain 5 HEADSET codec rx gain 16384 HEADSET_codec_tx_gain 16384

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HEADSET_dtmf_gain 4096 HEADSET_tx_gain 16384 HEADSET_ns_enable

209- Echo Cancellation ec mode aeSMuteMode 0 ecFHangover n ecSMHangover 400 nesRxAttenLevel 1024 ecStartErleThres 127 ecHDuplexMode 0 aecDTHangover Thres 160

210- AGC/AYC parameter rx ago enable 66535 tx ago compr slope 62259 tx age compr thres 6924 tx age exp slope 65434 bx age exp three 1920 bx_age_alg 65535 by age static gain 32613 by age enable 65535 rx avc headroom 000 rx avc sensitivity 000 Rx avg enable 000 Rx_agc_compr_slope 62259 Rx agc comprThres 6924 Rx ago exp slope 65434 rx_agc_exp_thres 1920 rx_age_alg 000 rx ago static gain

46039

211- Headset Tx Filter HEADSET_TX_FILTER[0] 038 HEADSET_TX_FILTER[1] 078 HEADSET TX FILTER[2] 063 HEADSET TX FILTER[3] 014 HEADSET_TX_FILTER[4] 65431 HEADSET_TX_FILTER[5] 63902 HEADSET_TX_FILTER[6] 11694 212- Spk Phone Calibration Tx FIR Filter[0] 000 Tx FIR Filter[1] 000 Tx FIR Filter[2] 000 Tx FIR Filter[3] 000 Tx FIR Filter[4] 000 Tx FIR Filter[5] 000 Tx FIR Filter[6] 000 213- Headset & BT VOL Calibration HEADSET rx vol[0] -2450 HEADSET_rx_vol[1] -1950 HEADSET rx vol 2] -1450 HEADSET_rx_vol[3] -950 HEADSET_rx_vol[4] -450 Headset by gain 25600 Headset by codec gain -24576

HEADSET_rx_vol[3] -950 HEADSET_rx_vol[4] -450 Headset tx gain 25600 Headset tx codec ga -24576 BT_rx_vol[0] -400 BT_rx_vol[1] 200 BT_rx_vol[2] 800 BT_rx_vol[3] 1400 BT_rx_vol[4] 2000 214- DOWNLOAD VOL Calibration DW hand rx vol[0] -1200 DW hand rx vol[1] -800 DW hand rx vol[0] -400 DW hand rx vol[0] -400DW hand rx vol[0] 156 0 336 215-SHUTTER HEADSET/MP3 VOL SHUTTER 607 700 SHUTTER OK 878 -1500 DINGDONG 600 LOOK HERE -100 123 551 0 Mp3 headset vol -400 Mp3 headset vol 248 350 1khz mp3 headset vol 474 3000 216- BT Echo Cancellation BT ec mode 5 BT ecSMuteMode 0 BT_ecFHangerover 160 BT ecSMHangover 800 BT nesRxAttenLevel 1024 BT ecStartErleThres 32767 BT ecHDuplexMode 474 65535 BT aecDTHangover Thres 248 160 217-TTYgain TTY RX GAIN 551 20000 TTY TX GAIN 8000 1051 218- MP3 Handset Volume Calibration COE[23] rx volume db[0] 878 -2500 COE[24] 607 rx volume db[1]

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-2000 rx volume db[2] -1600 rx volume db[3] -1200 rx_volume_db[4] -600 219-27 Tab Filter COEIO COE[1] COE[2] COE[3] COE[4] 1051 COE[5] 1093 COE[6] COE[7] 65492 COE[8] COE[9] COE[10] 64908 COE[11] 1836 COE[12] 3753 COE[13] 14980 COE[14] 3753 COE[15] 1836 COE[16] 64908 COE[17] COE[18] COE[19] 65492 COE[20] COE[21] 1093 COE[22]

COE[25] 336 COE[26] 156

...

220- Undefined Command 221- Undefined Command 222- Undefined Command 223- Undefined Command 224- Undefined Command 225- Undefined Command 226- Undefined Command 227- Undefined Command 228- Undefined Command 229- Undefined Command 230- Undefined Command 231- Undefined Command 232- Undefined Command 233- Undefined Command 234- Undefined Command 235- Undefined Command 236- Undefined Command 237- Undefined Command 238- Undefined Command

239- Undefined Command 240- Undefined Command 241-Tx limit va Temp (arrow up/down) Temp_Index[0] 105 Temp Index[7] 108 Temp Index[6] 108 Temp Index[5] 108 Temp_Index[4] 108 Temp_Index[3] 108 Temp Index[2] 105 Temp Index[1] 105

Page 57 of 61 243- Undefined Command 244- Undefined Command 245- Undefined Command 246- Undefined Command 247- Undefined Command <u>II 248- Erase Backup II</u> <u>Erase? NO</u> <u>Erase? YES</u> 249- Auto Vibrator Auto Vibrator? OFF 2 Auto Vibrator? ON

250- Backup Check BACKUP ON< BACKUP OFF

251 to 999- No info

242- Undefined Command

Be safe guys and take your time.

- Main Window -

Just like your dialing you're phone. Enter: 47*68#13580 (read more before you enter this code)

!! DO NOT POST THIS CODE ON THE WEB OR FORMS !!

I am not trying to hide this code this area is just dangerous to use.

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USER NOTES

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6. PRL Enabled

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PRL Enabled	
\circ YES<	
o NO	
7. Home SID/NID	
Home SID/NID	
o 1. 5007/65535	
○ 2 to 20 0/65535	
8. CDMA Pri Chn A	
Network Settings	
O CDMA Pri Chn A	
283	
9. CDMA Sec Chn A	
Network Settings	
o 691	
10. CDMA Pri Chn B	
Network Settings	
 CDMA Pri Chn B 	
384	

16. Origination Voice SO

o 2.NAM

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