

Figure 21

3.3.4.1. Preparation

- Connect PC and GSM tester with a GPIB cable.
- Connect PC and MS with a Data cable. (Use a full charged battery or one close.)
- Connect an antenna input/output cable of GSM tester to MS.

3.3.4.2. Default setting for the program.

• Activate the program and set defaults.



Figure 22

3.3.4.3 RF adjustment

- 1. Press "Calibration".
- 2. When initialization is complete, press "OK".



Figure 23

3. Turn on the phone and press "OK".



Figure 24

4. Make sure that the phone is in the idle mode and press "OK". (Adjustments start.)



5. Check that the cable is connected to the RF2 connector of the test instrument and press "OK". [CMD55 only]

Rfcaltool X						
Connect the MS to [RF OUT 2]						
ОК						
Figure 26						

6. The following message appears during the adjustment. Unplug the cable to connect to the RF connector, and press "OK". [CMD55 only]

Rfcaltool 🛛 🔀
Connect the MS to [RF IN / RF OUT]
ОК
Figure 27

7. Turn on the phone and press "OK".



8. Make sure the phone is turned on and press "OK".



Figure 29

9.	Press	"OK".
•••		••••

Rfcaltool	×
RF Calibration completed	
ОК	

Figure 30

10. The startup screen appears.

GX13

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3.3.4.4 RF performance check

Press "Check".

1. When initialization is complete, press "OK".



2. Turn on the phone, enter the PIN code and press "OK".



3. Make sure that the phone is in the idle mode and press "OK".



4. Press the keys 1, 2, 3 and Send and press "OK".



5. Make sure the terminal display is "In Call" and press "OK". (RF performance check starts.)



6. The following message appears during the check. Press the keys 1, 2, 3 and Send again and press "OK". [CMD55 only]



7. Make sure the terminal display is "In Call" and press "OK". [CMD55 only]



Figure 37

8. RF performance check is complete. Press "Save As..." and name the file to save the result. Press "OK" to exit.

	ALL		NG		
No.	Value Res	No.	Value Item	CH PCL -	
2	21.75 OK				
2	31.63 OK				Total: 228
4	21.53 OK				
5	5 307 OK				NG: U
6	-1.549 OK				
7	10.14 OK				
3	3.490 OK				OK
9	1.288 OK				UIX
10	1.186 OK				
11	1.305 OK				
12	5.459 OK				Save As
13	4.669 OK				
14	5.470 OK				
15	-72.78 OK				
16	-72.00 OK				
17	-66.5§ OK				
18	-41.78 OK		_		
19	-36.44 OK				OK
20	-36.95 OK				

Figure 38

The following will be displayed in case of failure.

	ALL		NG			
Vo.	Value Res 🔺	No.	Value Item	СН	PCI -	
1	33.16 NG	1	33.167 Burst Power	37	5	
2	33.34 NG	2	33.343 Burst Power	975	5	Total: 228
3	33.00 NG	3	33.008 Burst Power	124	5	10tal. 220
1	22.91 NG	4	22.910 Burst Power	37	11	NG: 12
5	5.086 OK	68	-17.91 Swit Spectrum -400	37	5	
5	-2 OK	76	-17.16 Swit Spectrum -400	975	5	
7	7.039 OK	84	-18.46 Swit Spectrum -400	124	5	NC
3	-6.260 OK	85	-18.92 Swit Spectrum +400	124	5	110
)	1.286 OK	115	30.076 Burst Power	699	0	
10	1.285 OK	116	29.651Burst Power	512	0	
11	1.255 OK	117	30.529Burst Power	855	0	Save As
12	6.064 OK	119	-1.612 Burst Power	699	15	
13	6.295 OK					
14	3.864 OK					
15	-72.55 OK					
16	-71.74 OK					
17	-66.88 OK					8
18	-41.80 OK					OK

Figure 39

9. Press "OK".

Rfcaltool	×
RF Check Completed.	
ОК	

Figure 40

10. The startup screen appears.

GX13

Attachment 1

Whole inspection list by RF performance check.

Band	Sending/ Receive	No.	Item to be inspected	Channel	PCL	
GSM	Tx	1	Sending output	37CH	PCL5	
band		2	Sending output	975CH	PCL5	
		3	Sending output	124CH	PCL5	
		4	Sending output	37CH	PCL11	
		5	Sending output	37CH	PCL19	
		6	Frequency deviation	37CH	PCL5	
		7	Frequency deviation	975CH	PCL5	
		8	Frequency deviation	124CH	PCL5	
		9	Phase error (RMS)	37CH	PCL5	
		10	Phase error (RMS)	975CH	PCL5	
		11	Phase error (RMS)	124CH	PCL5	
		12	Phase error (Peak)	37CH	PCL5	
		13	Phase error (Peak)	975CH	PCL5	
		14	Phase error (Peak)	124CH	PCL5	
		15	Mod_spectrum –800	37CH	PCL5	
		16	Mod_spectrum –600	37CH	PCL5	
		17	Mod_spectrum –400	37CH	PCL5	
		18	Mod_spectrum –250	37CH	PCL5	
		19	Mod_spectrum –200	37CH	PCL5	
		20	Mod_spectrum +200	37CH	PCL5	
		21	Mod_spectrum +250	37CH	PCL5	
		22	Mod_spectrum +400	37CH	PCL5	
		23	Mod_spectrum +600	37CH	PCL5	
		24	Mod_spectrum +800	37CH	PCL5	
		25	Mod_spectrum -800	975CH	PCL5	
		26	Mod_spectrum -600	975CH	POL5	
		21	Mod_spectrum_250	975CH	POLS	
		20	Mod_spectrum_200	97500	POLO	
		29	Mod_spectrum +200	975CH	POLS PCL5	
		31	Mod_spectrum +250	975CH	PCL5	
		32	Mod_spectrum +400	975CH	PCL5	
		33	Mod_spectrum +600	975CH	PCL5	
		34	Mod spectrum +800	975CH	PCL5	
		35	Mod spectrum –800	124CH	PCL5	
		36	Mod_spectrum –600	124CH	PCL5	
		37	Mod_spectrum -400	124CH	PCL5	
		38	Mod_spectrum -250	124CH	PCL5	
		39	Mod_spectrum –200	124CH	PCL5	
		40	Mod_spectrum +200	124CH	PCL5	
		41	Mod_spectrum +250	124CH	PCL5	
		42	Mod_spectrum +400	124CH	PCL5	
		43	Mod_spectrum +600	124CH	PCL5	
		44	Mod spectrum 800	1240H	POLO DCI 11	
		40	Mod_spectrum_600	37CH		
		40	Mod_spectrum_400	37CH	PCI 11	
		48	Mod_spectrum -250	37CH	PCL11	
		49	Mod spectrum –200	37CH	PCL11	
		50	Mod spectrum +200	37CH	PCL11	
		51	Mod_spectrum +250	37CH	PCL11	
		52	Mod_spectrum +400	37CH	PCL11	
		53	Mod_spectrum +600	37CH	PCL11	
		54	Mod_spectrum +800	37CH	PCL11	
		55	Mod_spectrum –800	37CH	PCL19	
		56	Mod_spectrum –600	37CH	PCL19	
		57	Mod_spectrum -400	37CH	PCL19	
		58	Nod_spectrum -250	3/CH	PCL19	
		59	Nod_spectrum_200	37CH	PUL19	
		61	Mod spectrum 1250	370H	DCI 10	
		62	Mod spectrum ± 100	3700	PCI 10	
		63	Mod_spectrum ± 600	37CH	PCI 10	
		64	Mod spectrum +800	37CH	PCL19	
		65	Switch Spectrum –1800	37CH	PCL5	
		66	Switch_Spectrum -1200	37CH	PCL5	
		67	Switch_Spectrum -600	37CH	PCL5	
		68	Switch_Spectrum -400	37CH	PCL5	1

Band	Sending/ Receive	No.	Item to be inspected	Channel	PCL
		69	Switch_Spectrum +400	37CH	PCL5
		70	Switch_Spectrum +600	37CH	PCL5
		71	Switch_Spectrum +1200	37CH	PCL5
		72	Switch_Spectrum +1800	37CH	PCL5
		73	Switch_Spectrum –1800	975CH	PCL5
		74	Switch_Spectrum –1200	975CH	PCL5
		75 70	Switch_Spectrum –600	975CH	PCL5
		/6 77	Switch_Spectrum -400	975CH	PCL5
		70	Switch_Spectrum +400	975CH	
		70 70	Switch Spectrum +1200	975CH	POLS PCL5
		80	Switch Spectrum +1800	975CH	PCL5
		81	Switch Spectrum –1800	124CH	PCL5
		82	Switch Spectrum –1200	124CH	PCL5
		83	Switch_Spectrum –600	124CH	PCL5
		84	Switch_Spectrum -400	124CH	PCL5
		85	Switch_Spectrum +400	124CH	PCL5
		86	Switch_Spectrum +600	124CH	PCL5
		87	Switch_Spectrum +1200	124CH	PCL5
		88	Switch_Spectrum +1800	124CH	PCL5
		89	Switch_Spectrum –1800	37CH	PCL11
		90	Switch_Spectrum_1200	37CH	POLTI DCL11
		91	Switch Spectrum -400	37CH	POLII PCI11
		93	Switch Spectrum +400	37CH	PCI 11
		94	Switch Spectrum +600	37CH	PCL11
		95	Switch Spectrum +1200	37CH	PCL11
		96	Switch_Spectrum +1800	37CH	PCL11
		97	Switch_Spectrum –1800	37CH	PCL19
		98	Switch_Spectrum –1200	37CH	PCL19
		99	Switch_Spectrum –600	37CH	PCL19
		100	Switch_Spectrum –400	37CH	PCL19
		101	Switch_Spectrum +400	37CH	PCL19
		102	Switch_Spectrum +600	37CH	PCL19
		103	Switch_Spectrum +1200	37CH	PCL19
		104	Burst Timing	37CH	PCL5
		106	Burst Timing	975CH	PCL5
		107	Burst Timing	124CH	PCL5
		108	Burst Timing	37CH	PCL11
		109	Burst Timing	37CH	PCL19
	Rx	110	Reception sensitivity	37CH	PCL5
		112	Reception sensitivity	124CH	PCL5
		113	Floor sensitivity 2	37CH	PCL5
		114	Reception level report	37CH	PCL5
DCS	Тx	115	Sending output	699CH	PCL0
band		116	Sending output	512CH	PCL0
		117	Sending output	855CH	PCL0
		118	Sending output	699CH	PCL5
		119	Sending output	699CH	PCL15
		120	Frequency deviation	699CH	PCL0
		121	Frequency deviation	055CU	PCL0
		122	Phase error (RMS)	699CH	PCL0
		124	Phase error (RMS)	512CH	PCL0
		125	Phase error (RMS)	855CH	PCL0
		126	Phase error (Peak)	699CH	PCL0
		127	Phase error (Peak)	512CH	PCL0
		128	Phase error (Peak)	855CH	PCL0
		129	Mod_spectrum -800	699CH	PCL0
		130	Nod_spectrum_600	699CH	PCL0
		122	Mod_spectrum_250	600CH	
		133	Mod spectrum –200	699CH	PCL0
		134	Mod_spectrum +200	699CH	PCL0
		135	Mod_spectrum +250	699CH	PCL0

Band	Sending/ Receive	No.	Item to be inspected	Channel	PCL
		136	Mod_spectrum +400	699CH	PCL0
		137	Mod_spectrum +600	699CH	PCL0
		138	Mod_spectrum +800	699CH	PCL0
		139	Mod_spectrum –800	512CH	PCL0
		140	Mod_spectrum –600	512CH	PCL0
		141	Mod_spectrum –400	512CH	PCL0
		142	Mod_spectrum –250	512CH	PCL0
		143	Mod_spectrum –200	512CH	PCL0
		144	Mod_spectrum +200	512CH	PCL0
		145	Mod_spectrum +250	512CH	PCL0
		146	Mod_spectrum +400	512CH	PCL0
		147	Mod_spectrum +600	512CH	PCL0
		148	Mod_spectrum +800	512CH	PCL0
		149	Mod_spectrum –800	855CH	PCL0
		150	Mod_spectrum –600	855CH	PCL0
		151	Mod_spectrum –400	855CH	PCL0
		152	Mod_spectrum –250	855CH	PCL0
		153	Mod_spectrum –200	855CH	PCL0
		154	Mod_spectrum +200	855CH	PCL0
		155	Mod_spectrum +250	855CH	PCL0
		156	Mod_spectrum +400	855CH	PCL0
		157	Mod_spectrum +600	855CH	PCL0
		158	Mod_spectrum +800	855CH	PCL0
		159	Mod_spectrum -800	699CH	PCL5
		160	Mod_spectrum -600	699CH	PCL5
		161	Mod_spectrum -400	699CH	PCL5
		162	Mod_spectrum -250	699CH	PCL5
		163	Mod_spectrum -200	699CH	PCL5
		164	Mod_spectrum +200	699CH	PCL5
		165	Mod_spectrum +250	699CH	PCL5
		166	Mod_spectrum +400	699CH	PCL5
		167	Mod_spectrum +600	699CH	PCL5
		168	Mod_spectrum +800	699CH	POLO
		169	Mod_spectrum -800	699CH	POLIS
		170	Mod_spectrum_600	600CH	POL15
		171	Mod_spectrum_250	600CH	POLIS
		172	Mod_spectrum_200	600CH	POLIS
		173	Mod spectrum 200	0990CH	
		175	Mod spectrum 250	600CH	
		176	Mod spectrum ± 100	600CH	PCI 15
		177	Mod spectrum ± 600	600CH	PCI 15
		178	Mod spectrum +800	600CH	PCI 15
		170	Switch Spectrum -1800	699CH	PCIO
		180	Switch Spectrum –1200	699CH	PCIO
		181	Switch Spectrum -600	699CH	PCIO
		182	Switch Spectrum –400	699CH	PCIO
	1	102		000011	

Band	Sending/ Receive	No.	Item to be inspected	Channel	PCL
		183	Switch_Spectrum +400	699CH	PCL0
		184	Switch_Spectrum +600	699CH	PCL0
		185	Switch_Spectrum +1200	699CH	PCL0
		186	Switch_Spectrum +1800	699CH	PCL0
		187	Switch_Spectrum -1800	512CH	PCL0
		188	Switch_Spectrum -1200	512CH	PCL0
		189	Switch_Spectrum -600	512CH	PCL0
		190	Switch_Spectrum -400	512CH	PCL0
		191	Switch_Spectrum +400	512CH	PCL0
		192	Switch_Spectrum +600	512CH	PCL0
		193	Switch Spectrum +1200	512CH	PCL0
		194	Switch Spectrum +1800	512CH	PCL0
		195	Switch Spectrum –1800	855CH	PCL0
		196	Switch Spectrum –1200	855CH	PCL0
		197	Switch Spectrum –600	855CH	PCL0
		198	Switch Spectrum –400	855CH	PCL0
		199	Switch Spectrum +400	855CH	PCL0
		200	Switch Spectrum +600	855CH	PCL0
		201	Switch Spectrum +1200	855CH	PCL0
		202	Switch Spectrum +1800	855CH	PCL0
		203	Switch Spectrum –1800	699CH	PCL5
		204	Switch Spectrum –1200	699CH	PCL5
		205	Switch Spectrum –600	699CH	PCL5
		206	Switch Spectrum –400	699CH	PCL5
		207	Switch Spectrum +400	699CH	PCL5
		208	Switch Spectrum +600	699CH	PCL5
		209	Switch_Spectrum +1200	699CH	PCL5
		210	Switch_Spectrum +1800	699CH	PCL5
		211	Switch_Spectrum -1800	699CH	PCL15
		212	Switch_Spectrum -1200	699CH	PCL15
		213	Switch_Spectrum -600	699CH	PCL15
		214	Switch_Spectrum -400	699CH	PCL15
		215	Switch_Spectrum +400	699CH	PCL15
		216	Switch_Spectrum +600	699CH	PCL15
		217	Switch_Spectrum +1200	699CH	PCL15
		218	Switch_Spectrum +1800	699CH	PCL15
		219	Burst Timing	699CH	PCL0
		220	Burst Timing	512CH	PCL0
		221	Burst Timing	855CH	PCL0
		222	Burst Timing	699CH	PCL5
		223	Burst Timing	699CH	PCL15
	Rx	224	Reception sensitivity	699CH	PCL0
		225	Reception sensitivity	512CH	PCL0
		226	Reception sensitivity	855CH	PCL0
		227	Floor sensitivity 2	699CH	PCL0
		228	Reception level report	699CH	PCL0

Troubleshooting list according to the results of RF performance check.

	Test item	Check parts for GSM	Check parts for DCS
Тх	Sending output	IC831, IC881, FL811, FL801	IC831, IC881, FL816, FL801
	Frequency deviation	TCX951	TCX951
	Phase error	VCO971, IC901, VCO851	VCO971, IC901, VCO851
	Mod_spectrum	VCO971, IC901, VCO851	VCO971, IC901, VCO851
	Switch_spectrum	VCO971, IC901, VCO851	VCO971, IC901, VCO851
	Burst Timing	IC881	IC881
Sprious	Not tested		
Rx	Reception sensitivity	FL801, FL901	FL801, FL902
	Floor sensitivity	FL801, FL901	FL801, FL902
	Reception level report	FL801, FL901	FL801, FL902

3.3.5 Software download

(1) Overview

This document describes the specification of the Flash-downloading tool (an upgrading tool) for user service.

(2) Purpose of this document

The aim of this document is to provide a sufficient description of the GX13 Upgrading Tool for readers.

(3) Scope

This document covers the description of the Flash-downloading tool specification for user service.

(4) Operating environment

Operating environment for the upgrading tool

OS: Windows 98, 98SE, 2000 or XP Downloadable file: Motorola format files only Communication mode: Asynchronous mode Data length: 8 bit Parity bit: None Stop bit length: 1 bit Baud rate: 9600 bps (only at the time of activation) 28800 bps (While downloading the loader) 115200 bps (While in the normal operation)

Operating environment for the loader

Phone: GX13 Communication mode: Asynchronous mode Data length: 8 bit Parity bit: None Stop bit length: 1 bit Baud rate: 9600 bps (only when activating)/115200 bps (While in the normal operation)

3.3.5.1 Description of the screens.

(1) Activation

You can start the application either from the short cut on your desktop or Start menu.

(2) The Upgrading Tool (on the PC)



Figure 41

Note 1)

If using "communicationBoxVer. 2G", you can control only the phone connected to No.1 cable.

Note2)

Time displayed in this dialog box indicates a margin of processing time taken to download the data to phones that are connected to cable No.2 to No.10 of the "communicationBoxVer. 2G". If an error occurs, increase this margin. For details, see the section 3.3.5.2 (3) "Using the Communication Box Ver.2G" on page 2-19.

[Caution!]

- If you wish to download using "communicationBoxVer. 2G", turn on No.10 to No.1 after "Sending Sync Byte.../Press Power Button" message appears.
- To downloading by "communicationBoxVer. 2G", remove the battery first. There will be no damage to the phone even if the battery is inserted. However, the software on the phone may not terminate. In this case, remove the battery to turn off the phone after the download is ended.
- Use a fully charged battery for the downloading operation.
- Remove the battery from the phone to terminate the software after the download is completed.
- Start downloading after phone is properly turned off in order to clear the Backup RAM.
- Note that if you select "FileSystem Initialize", the data stored in the phone will be deleted.
- (3) The loader (in the phone)

The operation progress indication and error status are displayed on the phone. The following are example screens.



Note 1)

You can check if the loaded program data is correct by comparing the SUM values displayed on the PC and the phone shown on the screen 5. If both values are the same, the correct program data is loaded.

Note 2)

The screen 6 shows an error which occurred while erasing the Flash.

"ADR" and "STR" appear only for Flash-oriented errors. Other errors are described in the latter section.

3.3.5.2 Operational specification

(1) Selecting a file

Press "Select File" to open the dialog box. Select a file you wish to download. You can select only the file in Motorola format.

Open			?×
Look in: 🔂	UpgradeTool	🛨 🗢 💽	r 🖽
File name:			Open
Files of type:	Motorola Files (*.mot)	•	Cancel

Figure 42 The dialog box to select a file

(2) Selecting COM port.

Select the COM port from COM1 to COM9 that connects the PC and phone (or "communicationBoxVer. 2G").

The GX13 Upgrading Tool	
The GX13 Upgrading	Tool Ver 1.10
-Download Option	COM Port
🗖 Use Communication Box Ver2.G	
100 Wait Time (S)	
🦵 File System Initialize	
Load File	
	Select File
Start Loading Fl.	ash

Figure 43 COM Port selecting screen

(3) Using the Communication Box Ver. 2G.

Tick "Use Communication Box Ver. 2G" in the dialog box if using "Communication Box Ver. 2G". For details, see the section 3.3.5.1 (2) "The Upgrading Tool (on the PC)" on page 2-16.

You can select wait time from 0 to 999 seconds since the access latency differs depending on the phone if using "Communication Box Ver. 2G". (Default value is set to 100 seconds). For details on setting the wait time, see the section 3.3.5.1 (2) "The Upgrading Tool (on the PC)" on page 2-16.



Cable 1.

Figure 44 Image of Communication Box Ver. 2G

[Caution]

Cable 1 is used for handshaking between the PC and phone. Make sure the cable is properly connected to the phone during the handshaking if using "Communication Box Ver.2G".

Switch on the power buttons No.10 to No.1 when "Sending Sync Byte.../Press Power Button" appears.

(4) Starting the downloading operation

Press [Start Loading Flash] button after you select the file to download. The downloading operation starts. The message below appears if no file is selected.



Figure 45

[Using a Data cable]

If using a Data cable for the downloading operation, press Power button of the phone after [Please remove AC charger, when you use PCcableSending Sync Byte.../Press Power Button!] appears. The loader starts to activate.

[Using "Communication Box Ver. 2G"]

If using "Communication Box Ver. 2G", switch on the power buttons No.10 to No.1 after [Please remove AC charger, when you use PCcableSending Sync Byte.../Press Power Button!] appears. The loader starts to activate.

[Caution]

If using a Data cable, [Sync received ; Sending RAM Loader.../Keep Power Button!] message will appear after the power button of the phone is pressed. Hold down the button until this disappears. The message disappears and the following screen will appear after the loader is completely expanded.

Flash Loader 1.07

(5) Completing the download

When the program data is successfully downloaded, [Download completed] appears, and then the SUM value of the data loaded into the Flash is displayed. If the operation is not properly completed, an error message will appear. For details, refer to [Error message chart] on pages 2-21, 2-22.

[Caution!]

After the downloading operation, a SUM value is displayed on the phone.

You can check if the program data is successfully downloaded by comparing the SUM values displayed on the phone and PC.

If both values are not the same, the program data may not be successfully downloaded. Start over the entire downloading operation.

(6) Matters to be attended to the downloading operation.

[If using a Data cable:]

- 1. Make sure to remove the AC charger from the Data cable. Otherwise it may cause the charging application to be activated, resulting in failure to download.
- 2. Use a fully charged battery for the downloading operation. Remove the battery from the phone to terminate software after the download is completed.
- 3. If the battery is not charged enough, the downloading operation may not be completed. Make sure to fully charge the battery before downloading.
- 4. If the downloading operation is cancelled or interrupted due to an error, remove the battery, attach it back, and start over the operation.
- 5. Start downloading after the phone is properly turned off in order to clear the Backup RAM.
- 6. Note that if you select "FileSystem Initialize" for the downloading operation, the data stored in the phone will be deleted.

[If using "communicationBoxVer. 2G":]

- 1. Switch on the Power buttons on the Box No.10 to No.1 in descending order when "Sending Sync Byte.../Press Power Button" appears. If the button 1 is switched on first, it results in failure of the downloading operation on phones that are connected to the cable 2 to 10.
- 2. Remove the battery. There is no damage to the phone even if the battery is inserted. However, the software of the phone may not terminate. In this case, remove the battery to turn off the phone after the download is completed.
- 3. The time to erase the program data differs depending on the phone.

If for the erasing operation fails after 100 seconds of wait time, increase "Wait Time", although it takes more time to finish downloading.

- 4. Start downloading after turning off the phone in order to clear the Backup RAM.
- 5. Note that if you select "FileSystem Initialize" for the download, the data stored in the phone will be deleted.

3.3.5.3 Error message chart

(1) Error messages for the upgrading tool (on the PC)

No.	Message	Description
1	Unable to open file	File open error Failed to open MOT file to download.
2	Unable to receive Sync Byte	Communication error Could not be synchronized with Boot ROM
3	Cannot communicate to port	Serial setting error Wrong serial port was selected.
4	RAM Loader not responding to commands	Communication error No response from the downloaded loader.
5	RAM Loader cannot understand commands	Communication error Received undefined response from the loader.
6	Unable to program flash	Flash operation error Failed to write or erase the Flash ROM.
7	Unable to reconfigure port	Serial setting Error Selected COM port is still in use.



Figure 47 An example of the error message

(2) Loader error message table (on the phone)

No.	Message	Description
1	COMPLETE!	The downloading operation is completed.
2	ERASE READY	Preparing for the erasing operation.
3	WRITE READY	Preparing for the program data.
4	BRT CHANGING	Changing the baud rate.
5	P ERASING	Erasing the program data.
6	WRITING	Loading the program data.
7	FLASH ERS OK!	The program data is successfully erased.
8	SUMCHECK	Calculating the SUM value of the written data.
9	SUMCHECK END	The calculation of the SUM value of the written data is completed.
10	SUM = XXXX h	The SUM value of the written data.
11	SUM ERROR!	Serial communication error (Check SUM error).
12	PARITYERR!	Serial communication error (Parity bit error).
13	FRAMINGERR!	Serial communication error (Framing error).
14	OVERFLOW!	Serial communication error (Buffer overflow error).
15	ERS_REC_ERROR	Serial communication error (Failed to receive the erase record).
16	BRT_REC_ERROR	Serial communication error (Failed to receive the change record of baud rate).
17	DAT_REC_ERROR	Serial communication error (Failed to receive the data record).
18	ADR_REC_ERROR	Serial communication error (Failed to receive the address record).
19	END_REC_ERROR	Serial communication error (Failed to receive the end record).
20	HDR_ERROR!	Serial communication error (Received the undefined record).
21	ODD_ERROR!	Serial communication error (Odd error).
22	SEQ_ERROR!	The Flash operation was failed (Sequence error).
23	VPP ERROR!	The Flash operation was failed (VppLow error).
24	PRT_ERROR!	The Flash operation was failed (Protect error).
25	ERS_ERROR!	The Flash operation was failed (Erase error).
26	WRT ERROR!	The Flash operation was failed (Write error).
27	ERASE CHK ERR	An error occurred while verifying the erasure.
28	WRITE CHK ERR	An error occurred while writing the data.
29	ADR = XXXXXXXX	The location of the error is displayed.
30	STR =XX	The time of the error occurrence is displayed.

No.1 to No.10 are information messages. These messages are displayed in the normal operation.
No.11 to 30 are error messages. Messages No.22 to No.28 indicate Flash-oriented errors. The error address (No.29) and status (No.30) are also displayed at the same time.

3.3.5.4 Installation / Uninstallation

(1) Installation

Execute "setup.exe" and activate the setup wizard.



Figure 48

Select a folder you wish to install to.

ler, enterone below	ading Tool in the following folds	vill install The GX13 Upgr	The installer
er, enter one below	nstall to a different new or exist	is folder, click "Next". To i	
		se".	To install in th or click "Brow
Browse	GX13 Upgrading Tool¥	C:¥Program Files¥The	<u>F</u> older:
	vina drives:	Il the software on the follo	You can insta
Disk Siz			Volume
37GE			C:
66GI			₹0. 2H:
			4
37GE 66GE			모 G: 모H: ▲

Figure 49

The confirmation screen appears. Select [Next].



Figure 50

The Upgrading Tool is being installed.

🞼 The GX13 Upgrading Tool			_ 🗆 X
Installing The GX13 Upgr	ading Tool)e
The GX13 Upgrading Tool is being in	stalled.		
Updating component registration			
	Cancel	Previous	<u>N</u> ext

Figure 51

The installation is complete.

🕷 The GX13 Upgrading Tool			_ 🗆 X
Installation Complete			B
The GX13 Upgrading Tool has been	sucessfully installed.		
Click "Close" to exit.			
	Cancel	Previous	<u>C</u> lose

Figure 52

The Upgrading Tool icon shown below is configured on your desktop. You can also activate this application by selecting "The GX13 Upgrading Tool" from Start menu.



Figure 53 The Upgrading Tool icon

(2) Uninstallation

Execute "setup.exe" and activate the setup wizard.

Running "setup.exe" uninstalls the preloaded program.



2 – 25

The preloaded program is being uninstalled.



Figure 55

The uninstallation is complete.

🞼 The GX13 Upgrading Tool			_ 🗆 X
Installation Complete			6
The GX13 Upgrading Tool has been s	ucessfully removed.		
Click "Close" to exit.			
	Cancel	<u>P</u> revious	<u>C</u> lose

Figure 56

3.3.6 Matters to be attended to the Installation /Uninstallation

- To install the upgrading tool to the PC that already has one, uninstall the preloaded tool first, and then install the program again.
- If you are operating the upgrading tool on Windows 98, 98SE or Me operation system, a message may ask you to restart the operation system during the installation. In this case, do so according to the instruction. Even if such a massage does not appear, restart your operation system after the installation is completed.
- Note) If you are trying to activate the upgrading tool on Windows 98 without restarting it, the following message may appear. In this case, you need to restart the operation system to operate the upgrading tool properly.

	X
C:\WINDOWS\Application Data\Microsoft\Installer\{B78C76B1-261B-48BF-95AE-5248DE8B826C}_1263ff9.exe is not a valid Win32 application.	

Figure 57

- Attachment 2 Reset Tool for the phone code
 - <Description>

Reset the phone code to "0000".

<Operation>

- (1) Connect the Reset tool to the cable.
- (2) Execute "PWDinit.exe".
- (3) Press the power key to access the idle mode. ("InsertSIM" is displayed.)
- (4) Press "Set to Default".

Password	×
r	
ок	Cancel
Figu	re 58

(5) Enter "2968" and press "OK".



Figure 59

(6) Press "Reset". The following confirmation message appears.



(7) Press "Yes" .

8	<u> </u>
Now Initializing	

Figure 61

(8) When initialization is complete, the dialog box below appears. Press "OK" to turn off the phone.

Information X	
(i)	Complete
ОК	
Figure 62	