

SITE TECHNICAL DOCUMENTATION

myC5-2

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CHAPTER 1 - FOREWORD

This document is common to all phones in the SAGEM. It is composed of independent sheets:

Symptom sheets = Symp Sheet XX
 Test and check sheet = Test Sheet XX
 Maintenance procedure sheet = Proc Sheet X XX

The applicability of a procedure is indicated in the independent sheets title block:

All types = GSM 850/900, GSM 1800/1900 and dual band.

These sheets are updated from time to time in Technical Information Bulletins (TIB).

The information contained in this document is non-contractual, since phone characteristics can change.

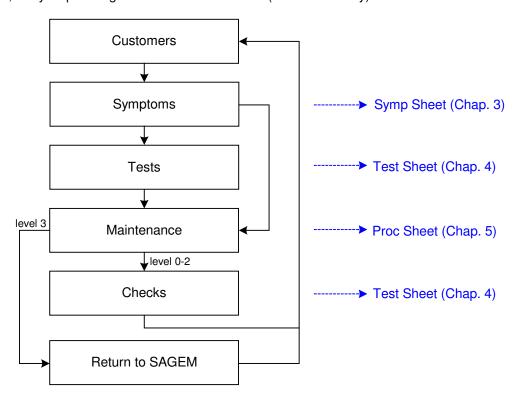
Phones are managed based on *SAGEM* handset codes; any order for spare parts must refer to these codes (typical code 25 xxx xxx-x).

1.1 HOW TO USE THE SITE TECHNICAL DOCUMENTATION

This is a modular document. Each sheet is unique and independent. In some cases several sheets may have to be used in order to determine the complete procedure to be applied.

A troubleshooting chapter (chapter 3) is provided and is sorted according to the type of reported fault, to determine the maintenance procedure to be carried out.

These sheets describe the procedure to be followed. They refer to test sheets or removal and replacement maintenance sheets. Maintenance ,executed by the repair centre, terminates either by returning the product to the customer, or by dispatching it to level 3 maintenance (return to factory).





All sheets include illustrations to make it easier to read the procedure.

- Chapter 1 : Foreword, describes general data about this document.
- Chapter 2: Description Operation, describes general data and options available in the myC5-2.
- Chapter 3: Symptoms, contains troubleshooting procedures to be carried out on equipment.
- Chapter 4: Tests and checks, contains tests and check procedures to be performed on the equipment.
- Chapter 5: Maintenance procedures, contains level 0 to 2 maintenance procedures to be carried out on the equipment, and the procedure to return to SAGEM level 3.
- Chapter 6: Accessories, describes the characteristics of accessories for myC5-2 phones.
- Chapter 7: Technical Information Bulletins, contains the various modifications made to this documentation.
- Chapter 8: Illustrated Parts Catalogue, contains the various reference for spare parts.
- Appendix 1: Composition table, contains the various SAGEM references codes for equipment described in this document.

1.2 ABREVIATIONS

AAC	Advanced Audio Coder
ADPCM	Adaptive Differential Pulse Codec Modulation
ALS	Alternative Line Services
AOC	Advice Of Charge
CCD	Charged Coupled Device
CLI	Calling Line Identification
CLIP	Calling Line Identification Presentation
CSTN	Colored Super Twisted Nematic
DOC	Digital Callular Custom

DCS Digital Cellular System
EFR Enhanced Full Rate

EMS Enhanced Message Service

FDN Fix Dial Number

GPRS General Packet Radio Service

GSM Global System for Mobile

IMEI International Mobile Equipment Identity
ISO International Standard Organisation

LCD Liquid Crystal Display

LU Livret d'Utilisation (User's guide)

MMS Multimedia Message Service

PCS Personnal Communication Service

PIN Personal Identity Number

PUK PIN Unlocking Key RF Radio Frequency



SAR Specific Absorption Rate
SIM Subscriber Identify Module
SMS Short Message Service

SMS CB Short Service Message Cell Broadcast

SMT Sagem Mobiles Tools
TFT Thin Film Transistors

USSD Unstructured Supplementary Service Data

VGA Video Graphics Array

WAP Wireless Application Protocol

WiFi Wireless Fidelity

WSP Wireless Session Protocol

1.3 COMMENTS SHEET

Broad experience is very beneficial in several respects. Please let us know your comments so that we can improve the contents and presentation of this document.

Your suggestions will be read carefully by:

- the design laboratory,
- production,
- the purchasing department,
- the after sales service,
- all users of this document.

All your suggestions are valuable, they will help us to better satisfy you.

Please photocopy and fill in the sheet 1-4.



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CHAPTER 2 - DESCRIPTION - OPERATION

2.1 REMINDERS ABOUT THE GENERAL NETWORKS CHARACTERISTICS

Table 1 below gives the characteristics of the radio interface for the GSM 850 / 900, GSM 1800 systems :

	GSM 900	GSM 1800	
Frequency Band (MHz)	890 - 915	1710 - 1785	
	925 - 960	1805 - 1880	
Number of time intervals per TDMA frame	8		
Width 2 x W simplex (MHz)	2 x 25	2 x 75	
Duplex spacing (MHz)	45	95	
Modulation speed (kbit/s)	271		
Speech throughput (kbit/s)	13 (5,6)		
Maximum data throughput (kbit/s)	12		
Multiple access	Frequency and temporal multiplexing / frequency duplexing		
Cell radius (km)	0,3 to 30 0,1 to 4		
SAGEM terminal power (W)	2	1	
Table 1 : Radio Interface			

Table 2 shows powers as a function of the network :

	GSM 900		GSM 180	00
Class number	Maximum nominal power (W)	Allowable interval (W)	Maximum nominal power (W)	Allowable interval (W)
1	-	-	1	[0,63 ; 1,6]
2	8	[5,0 ; 12,7]	0,25	[0,16;0,4]
3	5	[3,2;7,9]	4	[2,5 ; 6,3]
4	2	[1,3;3,2]		
5	0,8	[0,5 ; 1,3]		
Table 2: Terminals power class				

Table 3 shows power classes:

	Class 1	Class 2	Class 3	Class 4	Class 5
GSM 900	43 dBm	39 dBm	37 dBm	33 dBm	29 dBm
GSM 1800	30 dBm	24 dBm	36 dBm	-	-



Table 3: RF power classes



2.2 REMINDERS ABOUT THE CHARACTERISTICS AND OPTIONS OF myC5-2

Remark: This information is given for guidance, and is in no way contractual characteristics vary according to customers and countries.

GENERAL CHARACTERISTICS			
Size	ERAL CHARACTERISTICS		
Dimension (LxWxH, mm)	82 x 43 x 22,5		
Weight (g)	85		
Volume (cm3)	79		
Power Management	17		
Battery type	Li-Ion 720mAh		
Charging time	2h		
Talk time (TW.09)	up to 4h (tbc)		
Standby time (TW.09)	up to 44 (tbc)		
Display and User Interface	up to 240H (toe)		
Screen type	CSTN		
Colours	65,536		
Number of lines	up to 8 lines		
Screen size LxH (mm)	28 x 35		
Screen resolution (pixels)	128 x 160		
Backlight	yes, white		
Soft keys / navigation	yes, 2 programmable keys, 2 side keys		
Sub LCD (clam design)	yes, 2 programmable keys, 2 side keys yes, B&W, 96x64 pixels		
Customisation	yes, be w, yoxo4 pixels		
Handset colours	Dark Blue + Silver		
Interchangeable covers	No		
Radio	140		
GSM Band	900/1800MHz (850/1900MHz available as myC5-2a)		
Automatic switching between bands	Yes		
Voice codecs	EFR, HR, FR, AMR		
Operating System	EFR, IIK, FR, AWIK		
operating system			
	CONNECTIVITY		
Radio			
GPRS yes, Class 10 (4+1 & 3+2)			
UMTS No			
Internet			
Browser	WAP 2.0		
Push	Yes		
Built-in data / fax Modem	Yes		
Data Transfer	Tes		
Serial	No		
IrDA (Obex or other standard)	No		
Bluetooth			
USB	No .		
WiFi (802.11b,a)	yes, no charge function		
PC/MAC directory synchronisation	Yes		
	MULTIMEDIA		
Messaging	ALCON ANTENDRIA		
SMS	MO/MT/CB		
EMS	yes, v5		
MMS	·		
MINIO	yes, v4		



MMS OTA provisionning	yes
	ULTIMEDIA (cont'd)
Notification	Yes
Predictive text input	Т9
Video & Images	
Camera	yes, CMOS VGA definition (640x480)
Video Player	No
Image Format	BMP, WBMP, PNG, JPEG, GIF
Audio	
Audio Recorder	Yes
Audi player	Yes
Polyphonic ringtones	yes, 64 tones with melody chip
Audio formats	iMELODY, MIDI, WAV (PCM, ADPCM), AMR, C-MIDI
Entertainment	, , , , , , , , , , , , , , , , , , , ,
Wallpaper	Yes
Screensaver	Yes
Clock display	yes, analog or digital on Main and/or Sub LCD
Icons	Yes
Embedded games	yes, 2 Java Games
JAVA	yes, MIDP2.0
OTA Downloads	ycs, wiidi 2.0
Protocol supported	EMS, MMS, WSP-Get, WAP save as, PC Sync
Wallpaper / screensaver	yes, via EMS, WAP, PC download (MPAS)
1 1	
Animation	yes, via EMS, WAP, PC download (MPAS)
Menu icon	Yes
Ringing melodies	Yes
Music	No
Java application	Yes
	LL MANAGEMENT
Voice features Mute mode	Yes
Integrated handsfree mode	Yes
Address book features	168
	Yes
Call group	
Personal information management (V-card)	Yes
Ringtone / Icon customisation	Yes
Advanced Features	
Conference call	Yes
Call list (dialled, received and missed) Caller ID	Yes
	Yes Yes
Anonymous mode Call wait / call hold / call transfer	Yes
Call forwarding	Yes
Sim toolkit	Yes
Vibrate mode	Yes
Speed dialling	voice mail only by long press on 1
Automatic redial	Yes
Any key answer	No
Automatic hang up	Yes
	PECIAL FEATURES
Keyboard Features	2.11
Scroll key	yes, 2 side keys
Keypad lock	N/a



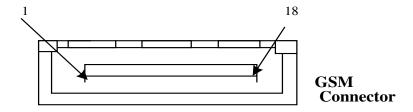
Silent key	yes, by long press on #
SPECIAL FE	CATURES (cont'd)
International access key	yes, by long press on 0
Personal Management Features	
Calculator	Yes
Alarm Clock	Yes
Organizer	Yes
To Do	Yes
Voice memo	yes, AMR codec
Currency converter	Yes
Languages up to 10 languages embedded	
Compatible Accessories	
Data cord	yes, using USB connection
Universal charger	yes, EU, UK, US available
Hands free kit	Yes
MI	EMORY
Internal phone book (positions)	depending on available free memory, up to 4,5Mbytes
Messaging memory SMS/EMS/MMS/Email (positions)	depending on available free memory, up to 4,5Mbytes
Redial list (positions)	depending on available free memory, up to 4,5Mbytes
Additional multimedia memory	No
Embedded memory (Max size for total user objects)	4,5MBytes



2.3 DATA/AUDIO/CHARGE CONNECTOR

2.3.1 Connector description

This connector is located at the bottom of the transmission module and enable the connection to various accessories. It comprises power supply pins and signals.



2.3.2 Signal description

SYMBOL	PIN No.	SIGNAL FUNCTION
BFTXP	1	Differential input from microphone
BFTXN	2	Differential input from microphone
BFRXP	3	Differential output to earphone
BFRXN	4	Differential output to earphone
VBAT	5	POWER SUPPLY IMAGE VOLTAGE, connect this signal to «CHARGER» (pin n°1) to switch the module on.
DETECT	6	Accessories detection
CTS	7	Clear To Send
RTS	8	Request To Send
DSR	9	Data Send Ready
DTR	10	Data Terminal Ready
TXD1	11	UART transmit 1
TXD2	12	UART transmit 2
GND	13	ZERO VOLT
RXD1	14	UART receive 1
RI	15	Ring Indicator
DCD	16	Data Carrier Detect
RXD2	17	UART receive 2
CHARGER	18	Phone set power ON and power supply signal.

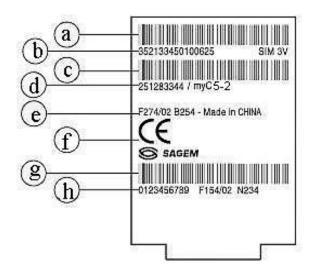




2.4 IDENTIFICATION

All phones are identified with an identification label sticked on the antenna.

2.4.1 Illustration



2.4.2 Description

a: IMEI (bar code),

b: IMEI (15 characters)

c: Reference of product / aesthetic used (bar code)

d: Reference of product / aesthetic used (9 characters)

e: Date code + Manufacturing level + Production area Indication,

Ex. F274/02 = (F) fabrication area (F : Fougères), (274) day of year, (02) last digit of year (02 \rightarrow 2002).

Ex: B254: Manufacturing level

Ex: Made in China: Production area Indication

f: Product designation

g: Module serial number (bar code)

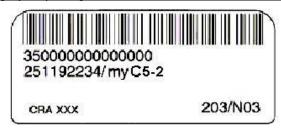
h: Module serial number (10 characters),

i: Sim card Indication (Sim 3V...)



2.4.3 Description after repair

A new sticker is positioning by Repairing Centre near the sim card connector:



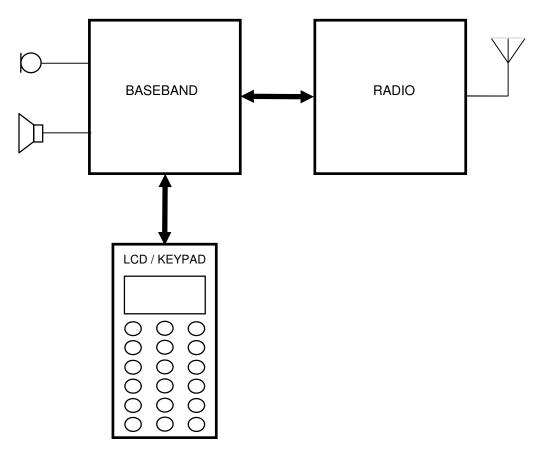
This extra line will appear if the mobile has already been repaired.

- **CRA XXX** \Rightarrow N° of CRA,
- **203/N03** \Rightarrow Date of repair: (203) repairing day, (03) last digit of year (03 \rightarrow 2003).



2.5 PHONE BLOCK DIAGRAM

2.5.1 myC5-2 block diagram



2.5.2 Standards and environment

Conformance Document

SAGEM SA declare under its sole responsibility that the product Dual Band GSM/DCS Type B2003 conforms to the

requirements of the following EEC directives:

EEC Directive 1999/5/CE Safety EN 60950

EMC EN 301 489-1 / EN 301 489-7

Low voltage directive 73/23/CEE

Network 3GPP TS 51.010-1 v 5.2.0 selected with GCF-CC v 3.10.0 included Requirements GT01 v 4.7.0 / TBR 19 Edition 5 /TBR 20 Edition 3 / TBR 31 Edition 2

TBR 32 Edition 2 / EN 301 419-1 /EN 301511

Health EN 50360 / EN 50361



2.6 EQUIPEMENTS

The description and operation of SAGEM myC5-2 are given in the "User's handbook" supplied with the phone. This chapter only describes equipment that operates with the myC5-2 phones .

2.6.1 Battery packs



Over view

2.6.1.1 Characteristics

Technology	Weight	Voltage capacity
Li-ion	24 g	720mAh

2.6.1.2 Description

Li-ion type batteries are used. They are rechargeable using:

- mains power supply modules,

Batteries caution use:

- Store the batteries in a dry and cool place (excessive cold and heat damage the batteries reliability).
- They must never be stored in bulk, even the rejects, to avoid any short circuits.
- Do not dismantle the battery packs. (Li-lon regulations).
- Only use original mains power supply module.
- All the out of order batteries must be returned to SAGEM.



2.6.1.3 Charging time

The following table shows typical charging times for different batteries.

Battery	500 mA travel chargers	"Simple" unregulated chargers 230 V Nom. (110 V Nom.)
Li-ion	230 V (110 V)	254 V (121 V)
	2h	1h45

2.6.2 Mains modules

2.6.2.1 Description

These mains power supply modules accept large dynamic variations in the power supply network. They are available for a number of connector types:

- E.U,
- United Kingdom
- United States,

2.6.2.2 Mains modules

Reference	Weight (g)	Vol (cm³)	Primary voltage	
SIMPLE UNREGULATED MAINS POWER SUPPLY MODULES 1.5 V. 300 mA.				
EC MAINS MODULE	180	85	230 V	
UK MAINS MODULE	180	120	230 V	
US MAINS MODULE	210	105	110 V	



CHAPTER 3 - SYMPTOMS

3.1 GENERAL

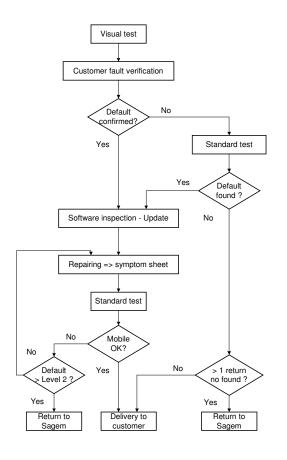
After you have received the **customer return sheet** (Proc Sheet 3 02), carry out the troubleshooting procedure.

This chapter will help you to identify the defective element(s), using the troubleshooting table.

It contains flow charts broken down by fault type. Each flow chart describes the procedure to be followed and contains cross references to tests or maintenance.

The conclusion of each troubleshooting procedure is :

- Return to SAGEM =The Return to the SAGEM centre can concern either the card, or the radiotelephone according to instructions given to the Centres of repair.
 - Delivery to the customer



Visual test:

- Glass state
- Keypad state (elastomer, inscription)
- Connector state (data/audio/charge ,battery, SIM)
- · Plug and position of battery
- SIM card position
- Oxidation

Standard test:

- Display test: Hot Line menu
- Contrast control
- All keypad keys test (check bips keys)
- · Audio and radio test
- · MMS and GPRS test
- Battery charge test
- Vibrating device test: Hot Line menu
- Charger test
- · Real call with a operator SIM card

Software inspection:

These flow charts should be followed in full. After a reference to a removal/replacement sheet or to a test to be carried out, you should return to the initial flow chart and continue the search until reaching a final conclusion.





3.2 LIST OF REPORTED DEFECTS

The following is a list of defects that may be reported:

Code	Indicated fault	Procedure
A0	Display malfunction	Symp Sheet 04
A1	No power up	Proc Sheet 1 14 or 3 01
A2	No display up	Symp Sheet 04
A3	Freezes up	Proc Sheet 1 14 or 3 01
A4	Back lights problem	Proc Sheet 1 14 or 3 01
A 5	Broken LCD	Symp Sheet 04
A6	Line or digit missing	Symp Sheet 04
В0	Power supply / no charge	Symp Sheet 01
B1	Defective battery contact	Proc Sheet 0 01
B2	Defective charger connector	Proc Sheet 1 14 or 3 01
B3	Defective board power supply	Proc Sheet 1 14 or 3 01
B4	Defective charge icon display	Proc Sheet 1 14 or 3 01
B7	Autonomy	Symp Sheet 01
B8	Electrically defective battery	Test Sheet 03
В9	Mechanical lock problem on battery	Proc Sheet 0 01
B10	Broken battery	Test Sheet 03
B11	Defective charger	Test Sheet 02
B12	Broken charger	Test Sheet 02
B13	Intermittent cut with reboot	Proc Sheet 1 14 or 3 01
B14	Intermittent cut without reboot	Proc Sheet 1 14 or 3 01
C1	Not functioning keyboard	Symp Sheet 05
C2	Lateral key problem	Symp Sheet 05
D1	Sim missing	Proc Sheet 1 14 or 3 01
D2	Other messages	Proc Sheet 1 14 or 3 01
D3	EEPROM pb	Proc Sheet 1 14 or 3 01
D4	Untuned mobile	Proc Sheet 1 14 or 3 01
D5	Hard failure	Proc Sheet 1 14 or 3 01
D6	Sim lock	Proc Sheet 1 14 or 3 01
D7	Post code	Test Sheet 01
D8	Return SAV	Proc Sheet 1 14 or 3 01
D9	Unknown battery	Test Sheet 03



Code	Indicated fault	Procedure
E1	Defective loudspeaker (hails)	Symp Sheet 08
E2	Loudspeaker voice distortion	Symp Sheet 08
E3	Defective microphone	Symp Sheet 08
E4	Microphone voice distortion	Symp Sheet 08
E5	Vibrating device malfunction (depending on models)	Symp Sheet 07
E6	Defective audio connector	Symp Sheet 08
F1	No network localisation	Symp Sheet 02
F2	Intermittent calls drop	Symp Sheet 02
F3	Network temporary drop	Proc Sheet 1 14 or 3 01
F4	Radio test not ok	Proc Sheet 1 14 or 3 01
F5	Outgoing call failure	Symp Sheet 02
F6	Incoming call failure	Symp Sheet 02
G1	Broken or damaged glass	Proc Sheet 1 07 / 1 10
G2	Broken or damaged cover	Proc Sheet 1 01 /1 07
G5	Broken or damaged keyboard	Proc Sheet 1 03
H1	DATA PROBLEM (SMS, EMS, SMS,GPRS, WAP, DOWNLOADING GAMES, RINGING TONES, SCREEN SAVER, NO COMMUNICATION WITH A PC, POCKET PC or PALM)	Without object
H2	Video function	Without object
H3	INFRARED function (IRDA)	Without object
l1	Oxidation marks	Proc Sheet 1 14 or 3 01
12	FM function	Proc Sheet 1 14 or 3 01
13	Monetic function	Proc Sheet 1 14 or 3 01
14	Broken or damaged accessory	Proc Sheet 1 14 or 3 01
15	Defective SIM connector	Proc Sheet 1 14 or 3 01
16	Malfunction of the menu	Proc Sheet 1 14 or 3 01
17	Lack function in the menu	Proc Sheet 1 14 or 3 01
18	No fault found	Symp sheet 03



3.3 ERROR MESSAGES DURING START UP

Message	Meaning	Procedure
WARNING UNTUNED RADIO	Invalid EEPROM field (SAGEM)	SAGEM Factory Return
PB IMEI	Consistency problem at IMEI level	SAGEM Factory Return
SIM MISSING	SIM card missing or badly inserted	Insert the SIM card
IMEI ERROR	Consistency problem at IMEI level	SAGEM Factory Return
UNTUNED	Mobile not configured	SAGEM Factory Return (except electronic SWAP boards sent by SAGEM Factory which only need a SMT process)
UNKNOWN BATTERY	Battery not recognised by the mobile	Replace the battery
MOBILE PHONE LOCKED	Number of seizures of sim locked code	SAGEM Factory Return
	exceeded	Not repair under warranty
SIM BLOCKED	Three bad PIN codes have been input	Contact the operator
SIM LOCKED (with SIM)	SIM card not adapted to the operator	Replace the SIM card
SIM LOCKED (without SIM)	Attacent of committee / FEDDOM fields)	SAGEM Factory Return
SIM LOCKED (without SIM)	Attempt of corruption (EEPROM fields)	Not repair under warranty
BATTERY TOO LOW	Battery state	Replace the battery

3.4 OTHER ERROR MESSAGES

Message	Meaning
"LINE INCIDENT"	Fax & PC link type "Problems"
"FULL MEMORY"	Fax & PC link type "Problems"
"CLEARING REJECTED"	Fax & PC link type "Problems"
"CHECK CONNECTION"	Fax & PC link type "Problems"
"NOT CONSULTED DOCUMENT"	Fax & PC link type "Problems"
"DEVICE PROBLEM"	Fax & PC link type "Problems"
"VERIFY APPLICATION"	Fax & PC link type "Problems"
"BUSY"	"Problems" related to the network and Communications
"K.PAD LOCKED PRESS *V"	Keypad locked
"OPTION NOT AVAILABLE"	Menu not available for this product version
"PROG.KEY NOT VALID"	Input "Problems"
"ERROR!!"	Calculation error with the calculator (division by zero)
"NOT REACHABLE"	Call forwarding if the mobile is not reachable
"NOT AVAIL."	Not available
"PIN ERROR"	" PIN input problems "
"PIN2 BLOCKED"	Following input errors



"PUK ERROR"	Following input errors
Message	Meaning
"PUK2 BLOCKED"	Following input errors
"CODE ERROR"	The phone code input for locking the mobile is incorrect
"NOT AVAIL."	Service not implemented in the network
"TRY AGAIN"	Following a network problem
"NETWORK BUSY"	"Problems" related to the network and Communications
"WAIT"	"Problems" related to the network and Communications
"UNBLOCK?"	"Problems" related to the SIM card
"MEMO REC. CUT"	Save during storage in the answering machine truncated due to lack of space
"FUNCTION NOT ALLOWED"	Prohibited function requested
"NOT FOUND"	Unsuccessful search (on directory, etc.)
"BUSY"	"Problems" related to the network and Communications
"REJECTED"	The requested operation was refused by the network
"EMPTY"	Empty (note pad, memo, etc.)
"NOT IN GROUP"	Error display following an error code returned from the network (CUG menus)
"CREDIT END"	"Credit end" information (paying call prohibited)
"CREDIT TOO LOW"	"Credit too low" information (CUG menus)
"NO AUTHORIZED ACTION DURING A WAP CALL"	Not available action during a wap call
"NOT CONFIGURED ACCESS"	Selection of a not configured provider
"UNKNOWN ACCESS"	Selection of a not fully configured provider
"UNKNOWN CALL IN PROGRESS"	Selection of a provider during a call in progress
"NO RESPONSE OF THE SERVER"	" Problems" related to the server
" NO RESPONSE OF THE NETWORK"	"Problems" related to the network and Communications
"NOT AVAILABLE NETWORK"	"Problems" related to the network and Communications
"TOO LONG URL ADDRESS"	The address typed is too long



3.5 LIST OF OBSERVED DEFECTS

A SAGEM code is assigned to each confirmed defect. This code should be entered on **Proc Sheet 3 01**, **SAGEM Factory Return**, if the phone to be repaired is returned to SAGEM (see chapter 5).

3.6 INFORMATION ABOUT NEW NOTICED FAULTS

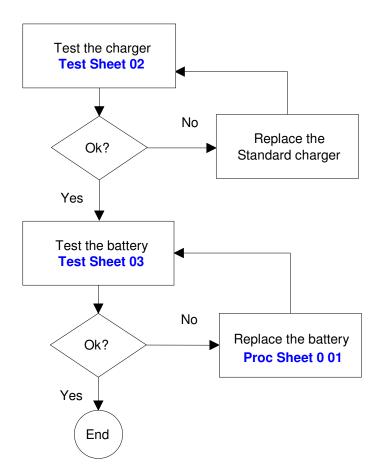
Detection by the repair center of new fault shall induce to respect the following procedure

- a) The concerned technician fills a precise report using the document NPD report SAV GSM 277 V1
- b) Then, this document is transmitted by email to the concerned Area Manager or Support Engineers for approval. Accordingly, 2 ways are possible:
 - The problem is already known by SAGEM, then the mobile have to follow the normal process in ARC with eventual additional data given by AM or SE
 - Return of mobile to MTB is requested.
- c) In that second case, the ARC will have to request a specific RMA number for this mobile in order to facilitate the treatment when arriving in SAGEM.
- d) This mobile returned to SAGEM will be swapped following ARCs habitual process for MTB return but will be MANDATORY linked to a paper version of the document filled by the technician.
- e) The treatment will have to be reproduced on the daily report and will be considered as level 3. Specified fault code will be then the technically closest one of the noted one, in the grid given by SAGEM

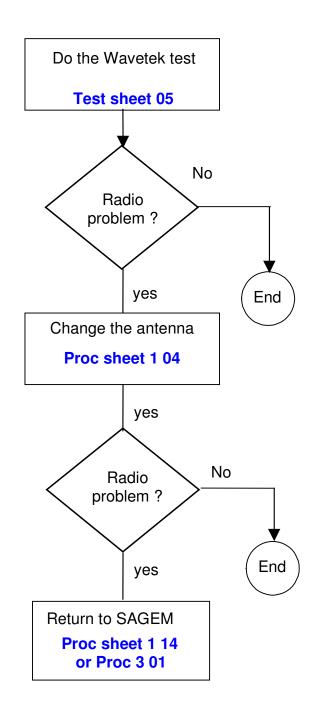


SYMPTOM SHEETS

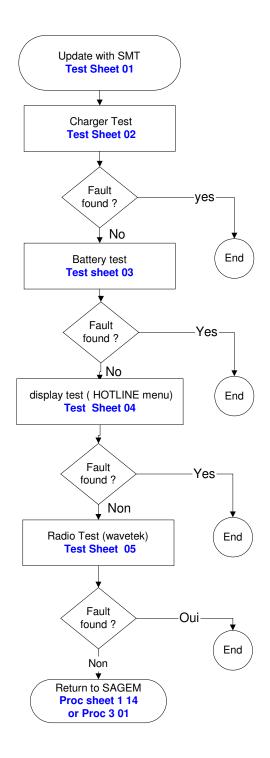
SAGEM	ENDURANCE, BATTERY, CHARGER PROBLEM	Symp Sheet 01
myC5-2		1/1



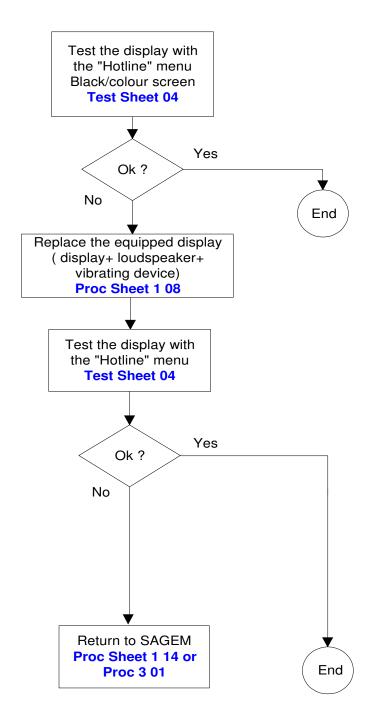




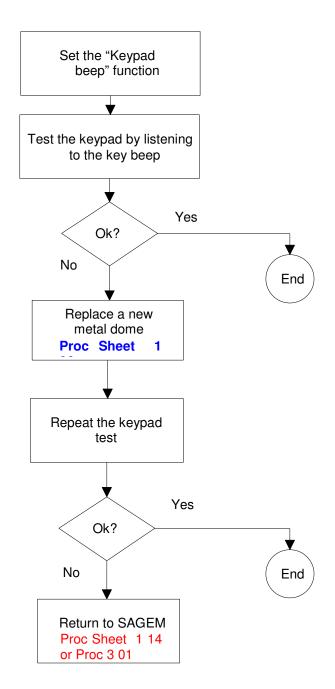


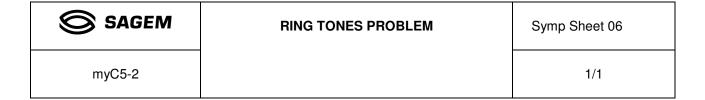


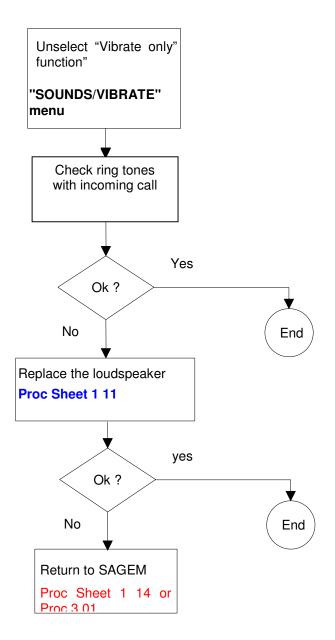




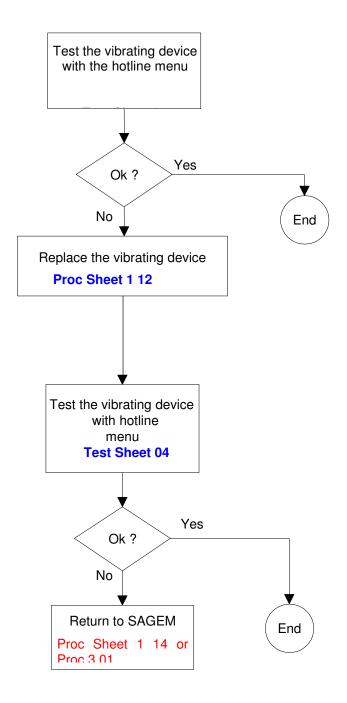
SAGEM	KEYPAD PROBLEM	Symp Sheet 05
myC5-2		1/1



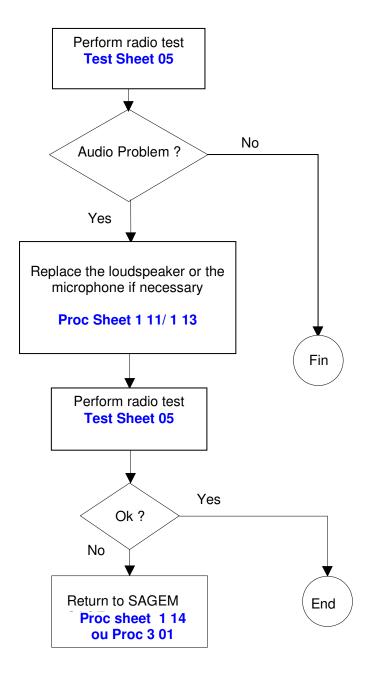


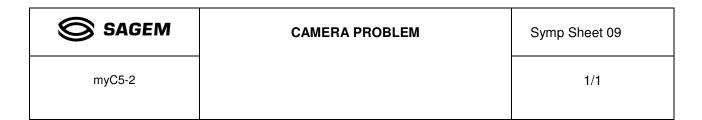


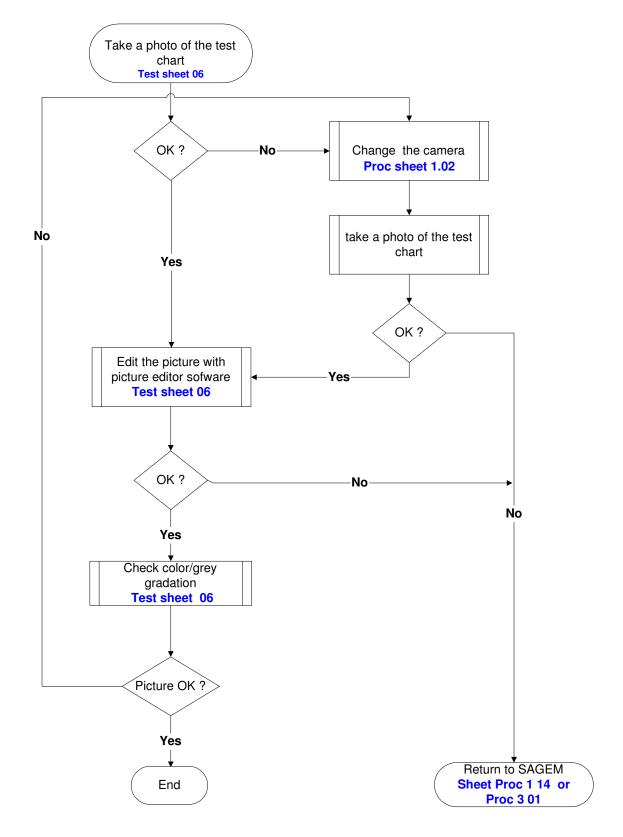
SAGEM	VIBRATING DEVICE	Symp Sheet 07
myC5-2		1/1



SAGEM	LOUDSPEAKER / MICROPHONE PROBLEM	Symp Sheet 08
myC5-2		1/1









CHAPTER 4 - TESTS AND CHECKS

4.1 ABOUT TESTS

Tests and checks are made after the troubleshooting procedures (chapter 3) and before the maintenance procedures (chapter 5).

They are broken down into modules and are sorted by types of confirmed faults. The user must be equipped with special test tools in order to carry out the tests.

4.2 TEST TOOLS

The references of SAGEM tools, listed hereafter, are given in Appendix 1: Composition table.

The following test tools are necessary:

- 1. the **ARC downloading kit**, including the test case provided with:
 - the data cable (to PC),
 - the retrofit cable,
 - the mains power supply module.
 - Retrofit adapter
- 2. the radio test bench, provided with:
 - SIM card of test.
 - MyC5-2 calibration tool
 - Adjustable regulate power supply 0-15V / 4A
 - Wavetek 4107
- CADEX C7000 / C7200 / ASTRATEK with myC5-2 adapter
 - · Charger test kit
 - Voltmeter (minimum impedance : 20 KΩ per Volt in DC)
 - Ammeter
- 3. an IMEI labels printing station, including :
 - · Printer,
 - · Roll of labels,
 - Connecting cable for PC (parallel printer cable),
 - · Printing software,



4.3 INSTALLING ON A WORKSTATION

4.3.1 Minimum required configuration

The minimum configuration of the workstation is:

- 4. Processor 1Ghz.
- 5. 128 Mbytes of RAM,
- 6. Windows 2000, Windows XP,
- 7. 2.1 Gbytes hard disk (1 Gbytes available),
- 8. 1 parallel port and 2 serials port.
- 9. Network card, sound card.
- 10. 1 internet access.

4.3.2 Installing the ARC downloading kit

The ARC downloading kit interfaces the SMT software with the phone to be repaired.

- 11. Connect the 9-pin SUB-D connector to the PC serial port (COM1).
- 12. Connect the power supply module to the mains power outlet.
- 13. Connect the phone to be repaired to the system connector.

4.3.3 SMT functions

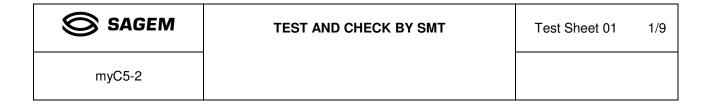
The SMT maintenance software can:

- 14. Download new software if needed
- 15. Configure default values and checks them.
- 16. Unblocked the "PHONE CODE"
- 17. Delete the customer directory and SMS
- 18. Print identification labels.
- 19. Make a electronic board exchange
- 20. Adjust the display contrast
- 21. Read the Site Technical Documentation (manual of repair)
- 22. Select a test sequence

The procedures for using these functions are described in TEST Sheet 01.



TEST SHEET



To run the functions described below, run the SMT application from the desktop icon.

<u>Notice:</u> The active connection with SMT (via the serial port), validate in itself the data functionality of the handset.

Download the latest software

- 1. Click on DOWNLOAD button.
- 2. Follow the procedures on the screen.
- 3. Make sure that the mobile phone is not in the sleep mode (press the Start key)

Configure and check default values

- 1. Click on the CONFIGURE popup menu and then VERIFY (Verfab).
- 2. Follow the procedures on the screen.

Release the "POST CODE"

- 3. Click on the CONFIGURE popup menu and then on RELEASE
- 4. Follow the procedures on the screen.

Print identification labels

- 5. Click on the on LABEL popup menu and then PRINT LABEL.
- 6. Follow the procedures on the screen

Audio parameters setting

- 7. Click on the AUDIO popup menu
- 8. Follow the procedures on the screen

SAGEM	TEST AND CHECK BY SMT	Test Sheet 01	2/9
myC5-2			

SMT SEQUENCE: Series of the different functions under SMT (sequence of tests)

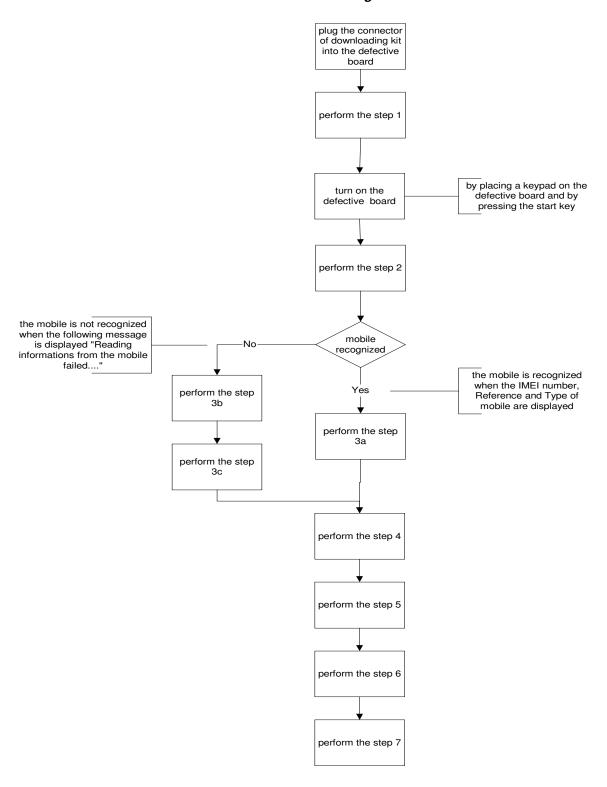
- 1. Click on SMT SEQUENCE popup menu.
- 2. Select the different functions you want to carry out then click on LAUNCH button.

Electronic board exchange

- $9. \quad Click \ on \ the \ SWAP \ popup \ menu \ , \ then \ SWAP \\ 10. \quad Follow \ the \ procedures \ on \ the \ screen$

SAGEM	TEST AND CHECK BY SMT	Test Sheet 01	3/9
myC5-2			

SWAP: Electronic board Configuration





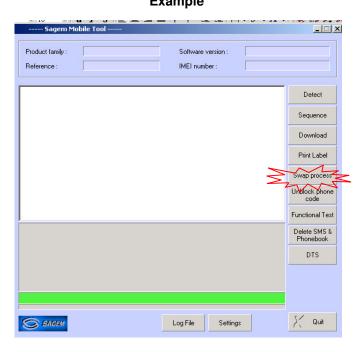
TEST AND CHECK BY SMT

Test Sheet 01

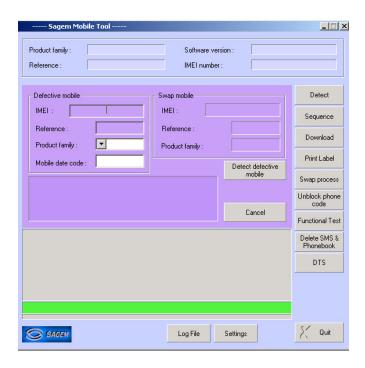
4/9

myC5-2

Step 1
SMT Front page
Click on the « SWAP Process » menu.
Example



The following screen appears:





TEST AND CHECK BY SMT

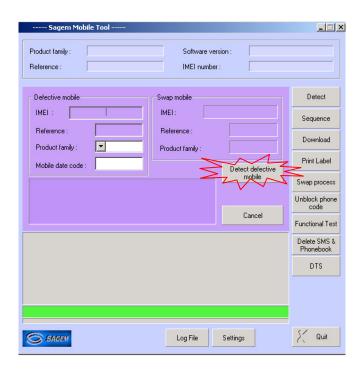
Test Sheet 01

5/9

myC5-2

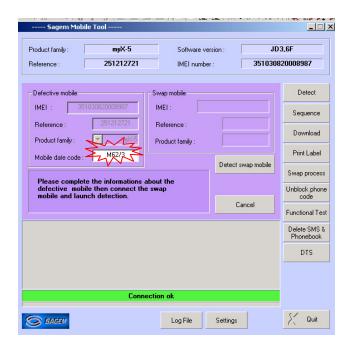
Step 2

Please click on « Detect defective mobile » button



Step 3a

The following screen appears: the mobile is recognized. Then, enter the mobile date code





TEST AND CHECK BY SMT

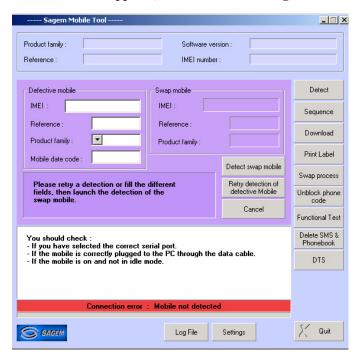
Test Sheet 01

6/9

myC5-2

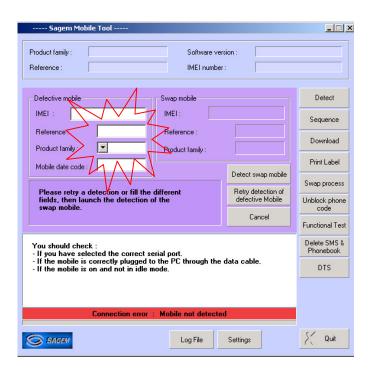
Step 3b

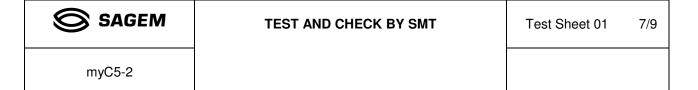
If this screen appears, the mobile is not recognized.



Step 3c

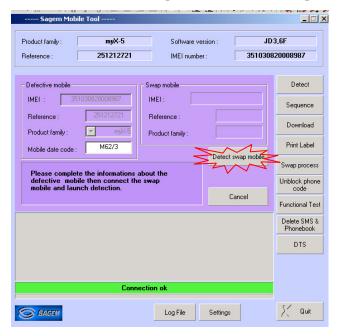
You must fill in the empty blanks requested according to the information written on the production label





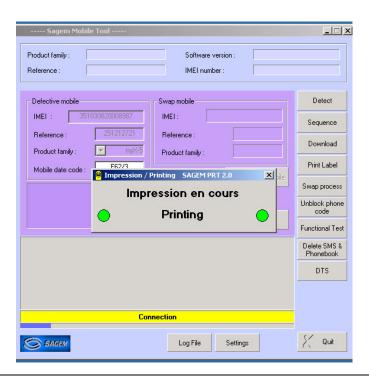
Step 4

Plug and switch on the new mobile, then push on the "Detect Swap mobile" button



Step 5

After clicking on "OK", SMT prints the label which will be used to close the ESD bag of the defective board.

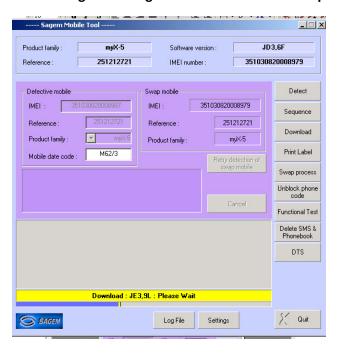


Test Sheet 01

8/9

myC5-2

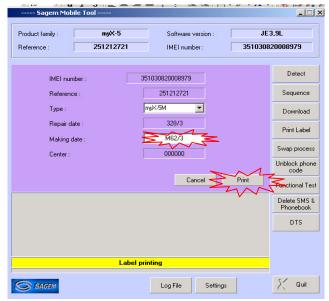
Step 6
The downloading is starting if the mobile need to be updated



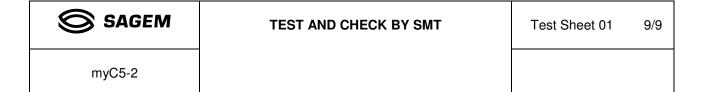
Etape 7

SMT opens the following screen to print the new label: please dial the "MAKING DATE" (Production date) written on the label of the defective mobile.

Then stick the new label on the functional mobile



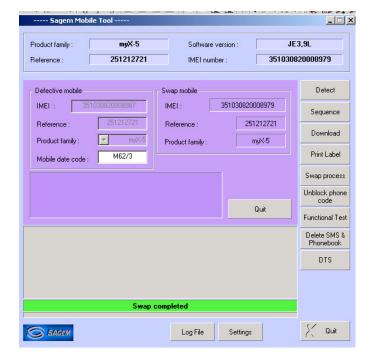
The swap board sequence is completed.



RESULTS

When old mobile is recognized, the audio parameters from the defective mobile have been sent to the functional mobile.

When old mobile is not recognized, the DEFAULTS audio parameters are sent to the functional mobile



SAGEM	CHARGER TEST	Test Sheet 02	1/1
myC5-2			

Test description

This test checks the various battery chargers.

Test procedure

- 1. Check visually the charger connector.
- 2. Connect the charger to be tested to the mobile.
- Access to the "HOTLINE" menu by pressing on the MENU key and then the * key.
 Select the APPLICATION menu and the BATTERY STATUS to check that the battery voltage is increasing

SAGEM	BATTERY TEST	Test Sheet 03	1/1
myC5-2			

Test description

This test allows to test the various batteries.

Required tools

- CADEX C7000 / C7200 / ASTRATEK
- Flex arm or myC5-2 adapters,
- a voltmeter (minimum impedance 20 k Ω per Volt in DC).

Test procedure

- 1. Measure the battery voltage between the V poles, the voltage shown must be between 2.5V and 4.5V
- If the voltage < 4v ,load the battery for 30 minutes with a universal charger and follow the instructions below
- If the voltage > 4V Measure the internal resistance with a CADEX or ASTRATEK batteries testers
- **Notice:** Choose on the batteries tester ,the battery type (Li-ion) ,the nominal battery voltage (3,6V) and the battery capacity (720 mA)
- Read the result :If the internal resistance < 300 mOhms the battery is OK
- If the internal resistance = 300 mOhms the battery is defective



Access to the "HOTLINE" menu

Access to the "HOTLINE" menu is possible with a powered up mobile.

The "HOTLINE" menu is accessed by pressing on the MENU key and then the * key.

Enter the corresponding code (bold) to choose the menu to be viewed.

To go out the "HOTLINE" menu, press successively on the C key to return at the operational screen of the mobile.

Description of the myC5-2 "HOTLINE" menu

- 1 APPLICATION
 - BATTERY: gives the value of the battery voltage.
 - VERSION: reads the installed software version and the IMEI code.
- 2 PROM : Not used
- 3 SIM LOCK: accesses the "SIM LOCK" menu (password required).
- 4 TESTS LCD
 - BLACK DISPLAY: displays the screen in black.
 - WHITE DISPLAY.
 - RED DISPLAY
 - GREEN DISPLAY
 - BLUE DISPLAY
 - WHITE CHECKERBOARD
 - PHOTO DISPLAY: functions on the screen to showing a picture.
 - VIBRATE: tests the vibrating device.

NOTE: The "HOTLINE" menu is only accessible with a valid SIM card.

SAGEM	RADIO TEST	Test Sheet 05	1/1
myC5-2			

Test description

This test tests myC5-2 phones during a call.

Required tools

- A Wavetek
- A RF coupler
- A myC5-2 calibration tool

-

Test procedure

- 1. Position the calibration tool first on the RF coupler to calibrate it
- 2. Position the myC5-2 module on the RF coupler
- 3. Switch the Wavetek on and press on "AUTOTEST".
- 4. Choose the corresponding program using the "UP" and "DOWN" arrows.

Mobile:myC5-2

Frequency range: GSM, DCS or GSM/DCS,

Coupling type: ANTENNA.

- 5. Press on "ENTER" and wait until the end of the calibration.
- 6. Follow the instructions shown on the Wavetek.

SAGEM	RADIO TEST	Test Sheet 05	1/1
myC5-2			

Test description

This test tests the good functioning of the myC5-2 photo function.

Required tools

- The test chart reference SAGEM
- A myC5-2 data link
- Pictures and sounds transferring software from mobile to PC ("My pictures and sounds.exe " available on www.planetsagem.com)
- A JPEG files publishing software

Test precautions

- -Camera function test has to make in a luminous environment
- -Select the high resolution mode in the Settings / Photo / Size menus
- The lens must be clean .if not cleaned with a lint free wipe

Test procedure

- Put myC5-2 at about 30 cms of the color test chart in order to visualize test chart entirely (inactive zoom).
- Start photo by pressing on the dedicated touch.
- Save the photo in the mobile.
- Link myC5-2 with the data link (serial / USB), download the picture (by way of My Pictures and sounds software) on the computer.
- Open picture file by means of a JPEG editor.
- Check the Color / grey gradation presence

Remarks: This test aims to verify the good operating camera functions.

Results disparities, being able to be obtained by different situations (screen computer / ambient lighting / distance ...), do not allow to concern a qualitative judgment on the photo.



CHAPTER 5 - MAINTENANCE PROCEDURES

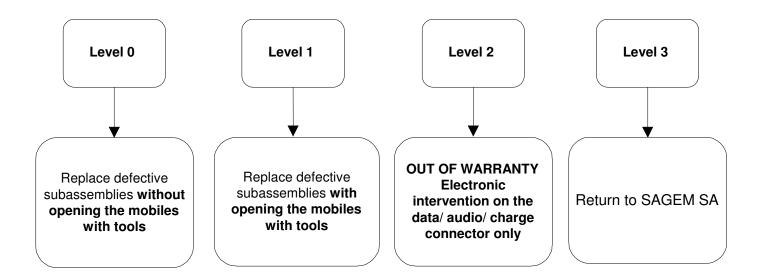
23. TECHNICAL WORK LEVELS

There are four technical work levels:

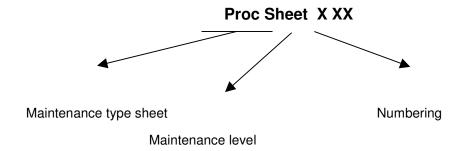
- Level 0,
- Level 1,
- Level 2,
- Level 3.

Each level represents a maintenance degree that depends on which elements are to be removed.

<u>Note:</u> Presence or use on the radiotelephone of non genuine element (material and software) leads automatically the exclusion from SAGEM warranty



Maintenance procedure sheets are coded as follows:





5.2 SHORT LOOP PROCESS

1. Initialisation

From the communication by Sagem and the reception of the concerned products by the short loop process, the Repair Centre shall comply with the above procedure. The application of the Short loop process will end when received the authorisation of repairing given by Sagem.

2. Administrative checks to be done by the Repair Centre

- Authorisation from Sagem for treating the reference received (Part number)
- Process to be applied: short loop process or normal process (DTS, Normal, etc...). The Repair Centre shall check if the product received has to be treated according to the short loop process.
- Controls on the warranty conditions and DOA conditions (if the Repair Centre is authorised) communicated by Sagem.

3. Tests and controls:

- Checks if there are no external shocks or oxidation marks (the covers shall be dismantled in case of exchangeable covers)
- Checks and confirmation of the defect (real call with SIM, functional test keypad, display, vibrating device, etc...)
- Check the concordance between the defect declared by the end-user and the defect observed
- Call back of the end-user or dealer (as far as possible) either in case of misunderstanding of the defect declared by the end-user or in case of the non observation of the defect. (see the appendix "Additional information about the No Fault Found –NFF-> at the end of this document allowing according to the case to understand the return of the product)

If any doubts occurred concerning out of warranty products received, the Repair Centre shall send to Sagem Montauban (with knowledge to the Area Manager and Support Engineer) the photo of the defect.

N.B:

- The handsets shall not be dismantled (by using screwdrivers) except previous request from Sagem.
- The Repair Centre will not make any Repair (such as spare parts exchange or software upgrade) except previous communication of Sagem. The exchanges of handsets or accessories are the only intervention authorised.

4. Exchange by the Repair Centre

- The Repair Centre will use the products delivered for swap to the Repair Centre for exchanging the products to the end-users (except particular process defined by Sagem).
- The under- warranty handsets and accessories received shall be exchanged to the end-user.



- The under- warranty handsets and accessories declared No Fault Found (NFF) shall be exchanged to the end-users except previous communication of Sagem.
- The Out of warranty handsets and accessories (oxidation, shocks, ...) will be repaired by the Repair Centre after acceptation by the customer of an estimate according to the Sagem out of warranty repair prices communicated.
- The under- warranty and out of warranty handsets shall be sent to Sagem Montauban.
- In the frame of the Short loop process, there is no level 1 (L1) intervention

5. Reports

An exchange of an handset and its accessories shall be codified Level 3 (L3)

An accessory exchange shall be codified Level 0 (L0).

The Repair Centre shall capture all the information required for issuing and sending the Repair Reports and Status reports according to the Contractual frequency defined. The Reports shall includes the products treated by the Repair Centre under- warranty or out of warranty.



6. Procedure

From the beginning date of the Short loop process application and minimum each week, the Repair Centre shall ship the products (handsets and accessories) to Sagem Montauban.

6.1. Handsets:

- MRA Procedure for the after-Sales products (one MRA number for the products concerned by the short loop).
- MRA Procedure for DOA products (one MRA DOA number for the products concerned by the short loop) if the Repair Centre is authorised to treat the DOA products.

The MRA request shall be sent to Sagem Montauban (with knowledge to the Area Manager and Support Engineer).

The shipment of products to Sagem Montauban shall comply with the MRA procedure. Furthermore each products shall be sent with the Return Product Sheet filled in indicating the defect declared by the end-user and the defect observed by the Repair Centre (Sagem Defect codes).

The NFF products sent to Sagem Montauban shall be identified by using separate package. Furthermore this products shall be sent with the complete description of the defect declared by the end-user (not codified).

The accessories received by the Repair Centre shall be sent to Sagem Montauban sent back attached with the handset (not connected to the handset).

6.2. Accessories:

For the accessories received without the handsets, the procedure is the following:

Accessories return procedure to Sagem Montauban to be used. The Repair Centre shall indicate on the parcel Accessories + model (ex : myC5-2) for the accessories received in the Repair Centre without the handsets.

7. Sagem Montauban

Sagem Montauban will ship back to the Repair Centre the same quantity of handsets and accessories as the quantity received.



8 Additional information about the no fault found

In any case: Ask to the end-user the frequency of the defect and the circumstances of its apparition (during an incoming or out-going call, while playing, while downloading, etc.). Try to answer the questions: Where? When? How?

- If the customer complains about a "Power supply / charging" failure: (shutting down of the mobile, problem of booting, etc.);
 - During which operation? In which circumstances?
 - o What is the state of the battery and the charger before shipment to the repair centre?
 - o If the mobile shuts down by itself, must he enter his code pin, adjust the date and the hour when rebooting the phone?
- If the customer complains about a communication problem:
 - What are his residence zone and the reception level of the mobile (Number of receipt bar);
 - o What is the state of the battery when the defect appears?
 - o In case of loss of communication :
 - With or without total extinction of the mobile?
 - Does the loss of communication occur always in the same place and with the same person?
 - Does the loss of communication occur while browsing in the menus, during the communication, or during playing or downloading?
- If the customer complains about a problem of blockage of key of the keyboard:
 - o In which circumstances does the problem occur?
 - Did he activate the keypad locking?
 - o Did he change or remove the upper cover ?
 - o Which are the non functioning keys?

5.3 MAINTENANCE TOOLS

The following tools are necessary to carry out maintenance operations:

- Electrical screwdrivers with tightening torque settings (0.25 NM).
- Metal dome jig.
- Plastic Tweezers.
- -Gloves
- ESD protection strap
- Soldering iron
- Solder wick
- Cross shaped screwdriver .00x75
- Flat screwdriver 2x75



LEVEL 0 MAINTENANCE



4.4 Tools:

4.5 - Not applicable

4.6 Preliminary operation:

4.7 - Switch off the mobile phone

4.8 Removal procedure :

- 1. Remove the battery cover (1) by pushing on the button
- 2. Unlock the battery pack (2) by pushing the lock button (3).
- 3. Remove the battery (1).

4.9 Placement procedure :

- 1. Replace the battery pack (1) by engaging top hooks first (4).
- 2. Replace the battery cover

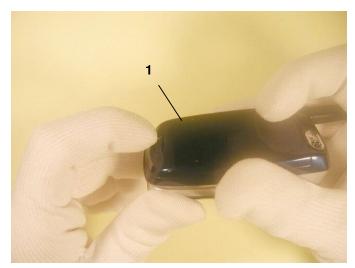


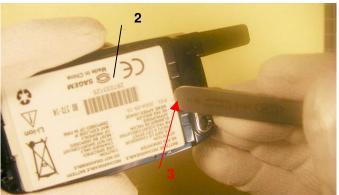
REMOVING / REPLACING THE BATTERY

Proc Sheet 0 01

myC5-2

2/2







SAGEM	REMOVING / REPLACING THE SIM LOCKER	Proc Sheet 0 02
myC5-2		1/2

4.10 *Tools:*

- Not applicable

4.11 Preliminary operation:

1. Remove the battery pack (Proc sheet 0 01).

4.12 Removal procedure:

1. Remove the SIM locker (1) by pressing under the back of the SIM locker to liberate from the back cover (2)

4.13 Placement procedure:

1. Replace the SIM locker (1) in position in its housing

4.14 Further operations

- 1. Replace the battery pack (Proc sheet 0 01)
- 2. Carry out radio test (Test Sheet 04).

4.15



REMOVING / REPLACING THE SIM LOCKER

Proc Sheet 0 02

myC5-2

2/2





LEVEL 1 MAINTENANCE

SAGEM	REMOVING / REPLACING BACK COVER	Proc Sheet 1 01
myC5-2		1/2

4.16 *Tools:*

- Cross shaped screwdriver

4.17 Preliminary operation

1. Remove the battery pack (Proc sheet 0 01).

4.18 Removal procedure:

- 1. On the back cover (1), unscrew the three attachment screws (2) and the antenna attachment screw (3).
- 2. Lift delicately the back cover (1) up beginning by the back side
- 3. Remove rear cover (1)

4.19 Placement procedure:

- 1. Replace the back cover (1) by engaging top hooks first .
- 2. Push down back of rear cover and screw the three attachment screws (2) and the antenna attachment screw (3) with **0,08 N.m** torque.

4.20 Further operations:

1. Replace the battery pack (Proc sheet 0 01)



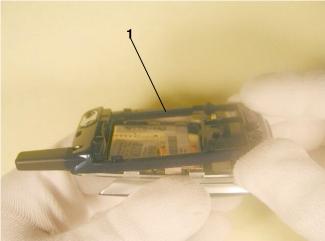
REMOVING / REPLACING THE BACK COVER

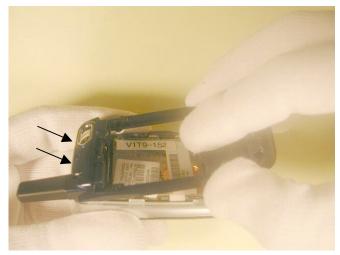
Proc sheet 1 01

myC5-2

2/2







SAGEM	REMOVING / REPLACING THE CAMERA	Proc Sheet 1 02
myC5-2		1/2

4.21 *Tools*:

- Cross shaped screwdriver
- Tweezers

4.22 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).

4.23 Removal procedure:

- 1. Remove the connector (1) shielding by mean of tweezers.
- 2. Remove the board-to-board connector (2) by lifting it up
- 3. Remove the camera (3) by lifting the camera shielding up

4.24 Placement procedure :

- 1. Position the camera (3) in its housing
- 2. Plug the board-to-board connector (2) on the electronic board
- 3. Replace the connector shielding by pressing until locked position

4.25 Further operations:

- 1. Replace the back cover (Proc sheet 1 01).
- 2. Replace the battery pack (Proc sheet 0 01).

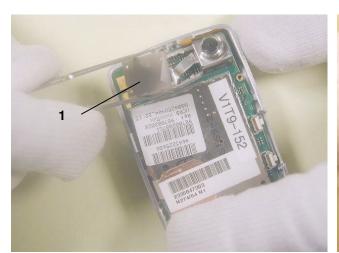


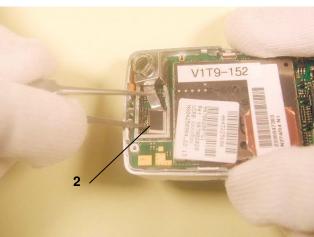
REMOVING / REPLACING THE CAMERA

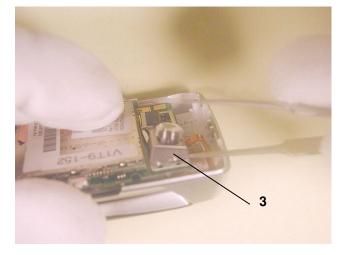
Proc Sheet 1 02

myC5-2

2/2









REMOVING / REPLACING THE BATTERY COVER LOCK

Proc Sheet 1 03

myC5-2

1/2

4.26 Tools:

- Cross shaped screwdriver

4.27 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).

4.28 Removal procedure:

- 1. Remove the battery cover lock (1) by pushing on the two stop pins with tweezers
- 2. Remove the battery cover lock and the lock spring (3) on the back cover (2)

4.29 Placement procedure:

- 1. Position the lock spring (3) in its housing (2)
- 2. Position the battery cover lock (1) in its housing (2)

4.30 Further operations:

- 1. Replace the back cover (Proc sheet 1 01).
- Replace the battery pack (Proc sheet 0 01).
- 3. Carry out the radio test (Test Sheet 04).

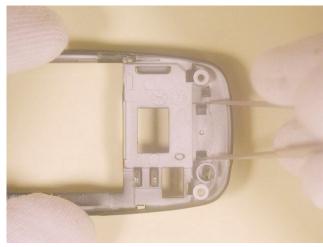


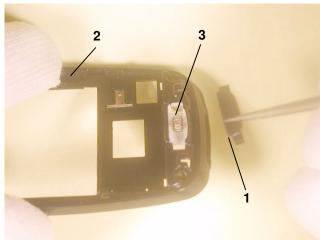
REMOVING / REPLACING THE BATTERY COVER LOCK

Proc Sheet 1 03

2/2

myC5-2





SAGEM	REMOVING / REPLACING THE ANTENNA	Proc Sheet 1 04
myC5-2		1/2

4.31 *Tools:*

- Cross shaped screwdriver

4.32 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).

4.33 Removal procedure:

- 1. On the back cover, unscrew the attachment screw (2) of the antenna (1)
- 2. Remove the antenna (1)

4.34 Placement procedure:

- 1. Position the antenna (1) in its housing
- 2. screw the attachment screw (2) with **0,1 N.m** torque.

4.35 Further operations:

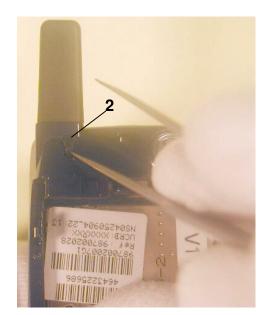
- 1. Replace the back cover (Proc sheet 1 01).
- 2. Replace the battery pack (Proc sheet 0 01).
- 3. Carry out the radio test (Test Sheet 04).

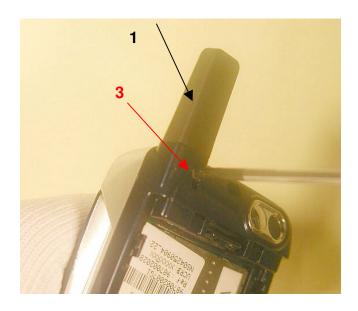


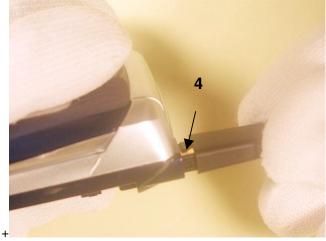
REMOVING / REPLACING THE ANTENNA

Proc Sheet 1 04

myC5-2









REMOVING / REPLACING THE ELASTOMER KEYPAD AND THE SIDE KEY

Proc Sheet 1 05

myC5-2

1/2

4.36 *Tools:*

- Cross shaped screwdriver

4.37 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).

4.38 Removal procedure:

- 1. Liberate the electronic board (1) by pushing the two stop pins (4) to outside, by means of tweezers
- 2. Lift equipped electronic board up (1) to liberate it of the front cover
- 3. Remove the keypad (2) and the side key (3) from the front cover.

4.39 Placement procedure:

- 1. Clean the keypad (2) and side key (3) with compressed air.
- 2. Place the keypad (2) and side key (3) in position in its housing
- 3. Place the equipped electronic (1) board in its housing

4.40 Further operations:

- 1. Replace the back cover (Proc sheet 1 01).
- 2. Replace the battery pack (Proc sheet 0 01).

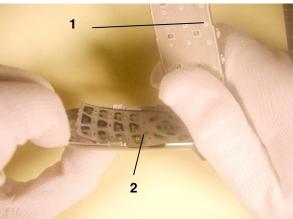


REMOVING / REPLACING THE ELASTOMER KEYPAD AND THE SIDE KEY

Proc Sheet 1 05

myC5-2







SAGEM	REMOVING / REPLACING THE METAL DOME	Proc Sheet 1 06
myC5-2		1/2

4.41 Tools:

- Cross shaped screwdriver
- Gloves
- Metal dome Jig
 Tweezers

4.42 Preliminary operation

This procedure must be performed by a technician with gloves.

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).

4.43 Removal procedure:

1. Remove the metal dome (2) of the equipped electronic board (1)

4.44 Placement procedure :

Warning: The metal dome is not reusable, it must be necessarily replaced by a new metal dome, unless the board is swapped and sent as level 3

- 1. Replace the new metal dome (2) on the equipped electronic board (1), using the metal dome jig.
- 2. Place the equipped electronic board in its housing

4.45 Further operations:

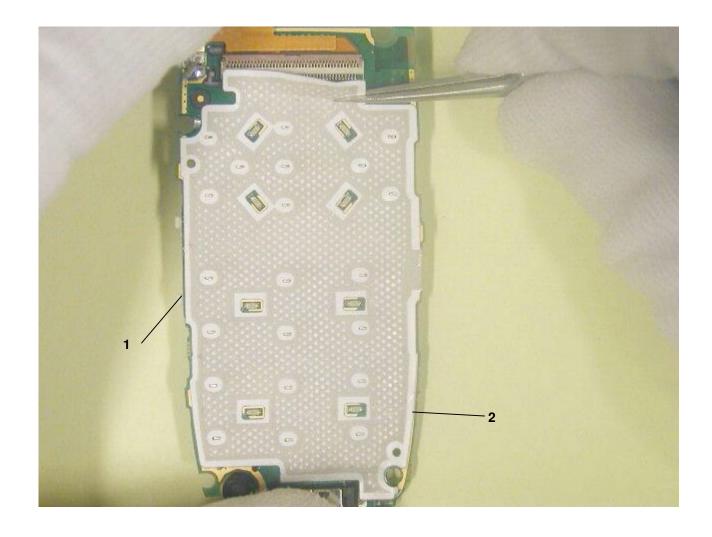
- 1. Replace the back cover (Proc sheet 1 01).
- 2. Replace the battery pack (Proc sheet 0 01).
- 3. Carry out the radio test (Test Sheet 04).



REMOVING / REPLACING THE METAL DOME

Proc Sheet 1 06

myC5-2



SAGEM	REMOVING / REPLACING THE FRONT FLIP COVER	Proc Sheet 1 07
myC5-2		1/2

4.46 *Tools*:

- Cross shaped screwdriver
- Tweezers
- Flat screwdriver

4.47 Preliminary operation:

4.48 - Switch off the mobile phone

4.49 Removal procedure:

- 1. Remove the four screws covers (3) on the lower flip (1) by piercing them at the centre with tweezers and by acting as a lever.
- 2. On the back flip cover (1), unscrew the four attachment screws (4).
- 3. lift the front flip cover (1) up with a flat screwdriver beginning by the hinge side (5)
- 4. Remove the audio gasket (5)
- 5. Remove the front flip cover (2)

4.50 Placement procedure:

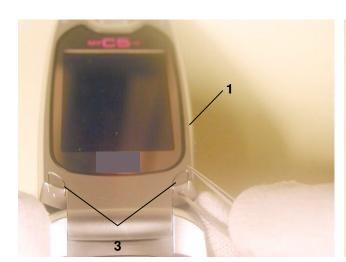
- 1. Replace the front flip cover (2) by engaging top hooks first .
- 2. Push down back of front flip cover (2) into locked position
- 3. Position and tighten the four attachments screws (4) with **0,08 N.m** torque.
- 4. Position news screw covers (3) on the back flip cover (1)

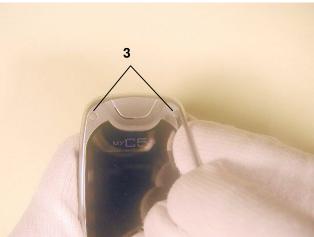


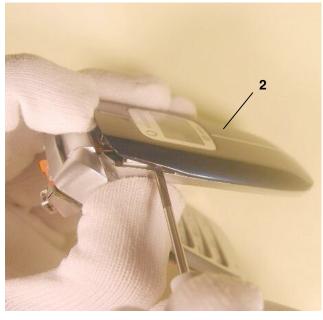
REMOVING / REPLACING THE FRONT FLIP COVER

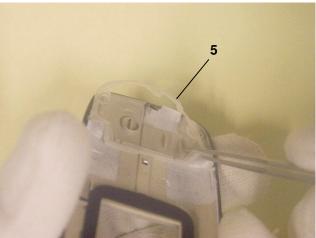
Proc Sheet 1 07

myC5-2











4.51 The equipped display include the display, the PCB, the loudspeaker and the vibrating device.

4.52 Tools:

- Soldering iron
- Cross shaped screwdriver
- Cruciform screwdriver

4.53 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the front flip cover (Proc sheet 1 05).

4.54 Removal procedure:

- 1. Remove the audio gasket from the flip lower cover (3)
- 2. Release the vibrating device and the loudspeaker from the flip lower cover (3)
- 3. Release the equipped display (1) from the flip lower cover (3) by separating the four stop pins (2)
- 4. Remove the PCB flex connector (4) on the equipped display (1)
- 5. Remove the equipped display (1)

4.55 Placement procedure :

- 1. Connect the PCB flex (4) into the new equipped display (1)
- 2. Position the equipped display (1) in the front flip cover (1) respecting the pins (2)
- 3. Position the vibrating device and the loudspeaker on the flip lower cover (3)
- 4. Position the audio gasket in its housing.

4.56 Further operations:

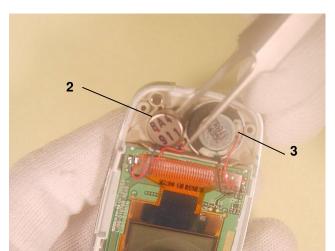
- 1. Replace the front flip cover (Proc sheet 1 05).
- 2. Replace the battery pack (Proc sheet 0 01).

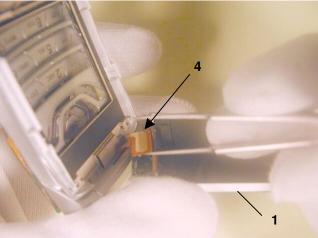


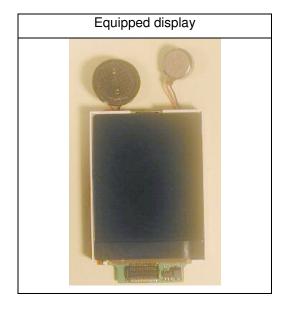
REMOVING / REPLACING THE EQUIPPED DISPLAY

Proc Sheet 1 08

myC5-2









REMOVING / REPLACING THE EQUIPPED ELECTRONIC BOARD

Proc Sheet 1 09

1/2

myC5-2

4.57 Tools:

- Cross shaped screwdriver
- Tweezers

4.58 Preliminary operation

- 1. Remove the battery (Proc sheet 0 01).
- Remove the back cover (Proc sheet 1 01).

4.59 Removal procedure:

- 1. Liberate the electronic board (1) by pushing the two stop pins (5) to outside, by means of tweezers
- 2. Lift equipped electronic board up (1) to liberate it of the front cover
- 3. Unsolder the flex PCB (4) from the electronic board (1)
- 4. Open Zif connector lock (3) by lifting lock up
- 5. Remove delicately the flex PCB (4).
- 6. Remove the equipped electronic board (1)

4.60 Placement procedure:

- 1. Insert the flex PCB (4) into Zif connector (2) on the new equipped electronic board (1)
- 2. Press Zif connector lock (3),into locked position
- 3. Flux and solder the flex PCB (4) on the electronic board (1)
- 4. Replace the equipped electronic board (1) in its housing

4.61 Further operations:

- 1. Replace the back cover (Proc sheet 1 01).
- 2. Replace the battery pack (Proc sheet 0 01).
- 3. Carry out the radio test (Test Sheet 04).



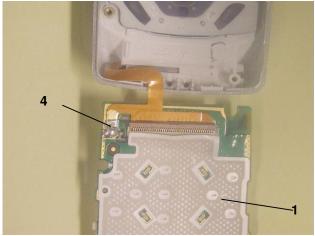
REMOVING / REPLACING THE EQUIPPED ELECTRONIC BOARD

Proc Sheet 1 09

2/2

myC5-2







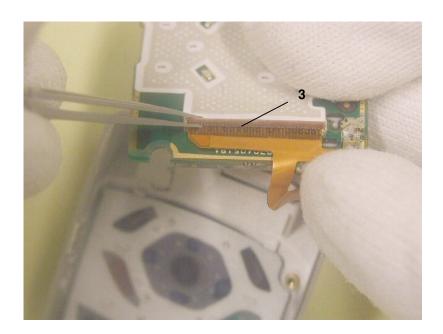


REMOVING / REPLACING THE EQUIPPED ELECTRONIC BOARD

Proc Sheet 1 09

2/2

myC5-2





4.62 Tools:

- Cross shaped screwdriver
- Tweezers

4.63 Preliminary operation

- 1. Remove the battery (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).
- 3. Remove the equipped electronic board (Proc sheet 1 09).

4.64 Removal procedure :

- 1. Press the hinge (2) inside the front cover by means of (curved) tweezers to release the equipped flip (1)
- 2. Remove delicately the flex PCB (3) from the front cover
- 3. Remove the equipped flip (1)
- 4. Remove the front flip cover (Proc sheet 1 07).
- 5. Remove delicately the equipped display from the front flip cover
- 6. Remove the back flip cover

4.65 Placement procedure :

- 1. Position the equipped display into the new back flip cover
- 2. Replace the front flip cover (Proc sheet 1 07).
- 3. Position the equipped flip (1) in its housing by inserting the flex PCB (3) into the front cover
- 4. Press firmly the hinge (2) with a flat screwdriver, to fix the equipped flip (1) on the front cover

4.66 Further operations :

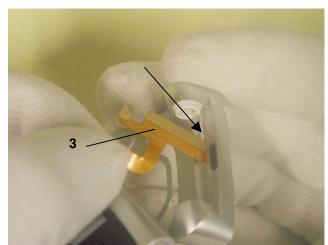
- 1. Replace the equipped electronic board (Proc sheet 1 09).
- 2. Replace the back cover (Proc sheet 1 01).
- 3. Replace the battery pack (Proc sheet 0 01).



myC5-2

REMOVING / REPLACING THE BACK FLIP COVER

Proc Sheet 1 10





SAGEM	REMOVING / REPLACING THE LOUSPEAKER	Proc Sheet 1 11
myC5-2		1/2

4.67 **Tools:**

- Cross shaped screwdriver
- Soldering iron
- Solder wick
- Flat screwdriver

4.68 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- Remove the front flip cover (Proc sheet 1 07).

4.69 Removal procedure :

- 1. Unstuck the loudspeaker (1) of the back flip cover (2) with a flat screwdriver
- 2. Unsolder the loudspeaker (1) on the equipped display (2)
- 3. Remove the loudspeaker (1)

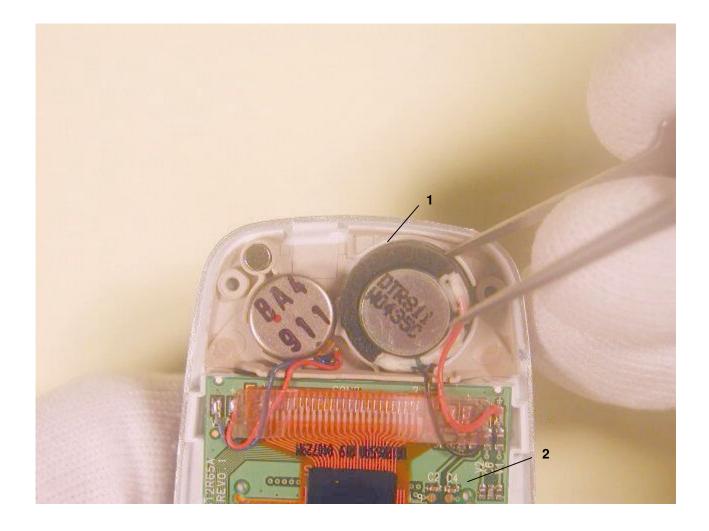
4.70 Placement procedure :

- 1. Flux the place of the loudspeaker (1) and solder it on the equipped display (2), respecting the wiring sense
- 2. Position the loudspeaker (1) in its housing

4.71 Further operations:

- 1. Remove the front flip cover (Proc sheet 1 07).
- Remove the battery pack (Proc sheet 0 01).







4.72 **Tools:**

- Cross shaped screwdriver
- Soldering iron
- Solder wick
- Flat screwdriver

4.73 Preliminary operation

- 1. Remove the battery pack (Proc sheet 0 01).
- 2. Remove the front flip cover (Proc sheet 1 07).

4.74 Removal procedure :

- 1. Remove the vibrating device (1) from its housing first with a flat screwdriver
- 2. Unsolder the vibrating device (1) on the equipped display (2)
- 3. Remove the vibrating device (1)

4.75 Placement procedure :

- 1. Flux the place of the vibrating device (1) and solder it on the equipped display (2), respecting the wiring sense
- 2. Position the vibrating device (1) in its housing

4.76 Further operations:

- 1. Remove the front flip cover (Proc sheet 1 07).
- Remove the battery pack (Proc sheet 0 01).

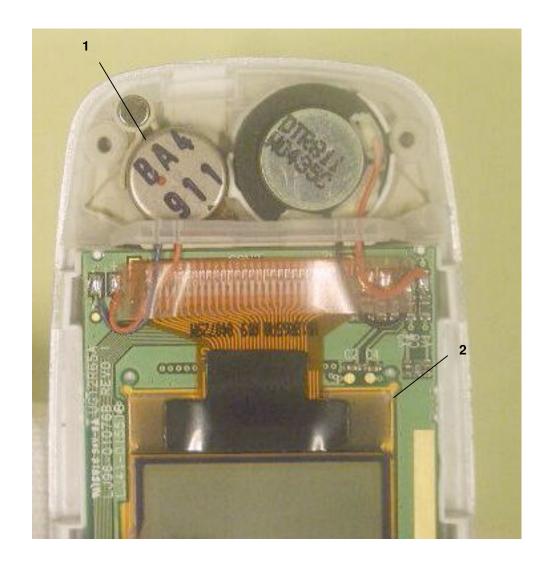


REMOVING / REPLACING THE VIBRATING DEVICE

Proc sheet 1 12

2/2

myC5-2



SAGEM	REMOVING / REPLACING THE MICROPHONE	Proc Sheet 1 13
myC5-2		1/2

4.77 Tools:

- Cross shaped screwdriver
- Soldering iron
- Solder wick

4.78 Preliminary operation

- 1. Remove the battery (Proc sheet 0 01).
- 2. Remove the back cover (Proc sheet 1 01).
- 3. Remove the equipped electronic board (Proc sheet 1 09).

4.79 Removal procedure :

- 1. Unsolder the microphone (2) from the equipped electronic board (1)
- 2. Remove the microphone (2)

4.80 Placement procedure:

1. Flux the place of the microphone (2) and solder on the equipped electronic board (1), respecting the wiring sense (Flex PCB upward)

4.81 Further operations:

- 1. Replace the equipped electronic board (Proc sheet 1 09).
- 2. Replace the back cover (Proc sheet 1 01).
- 3. Replace the battery pack (Proc sheet 0 01).





SAGEM	EQUIPPED ELECTRONIC BOARD EXCHANGE	Proc Sheet 1 14
myC5-2		1/3

4.82 Preliminary operation

- 1. Control of the IMEI label integrity
- 2. Remove the equipped electronic board (Proc sheet 1 09)
- 3. Control of any oxidation marks (on the equipped electronic board and under the metal dome)

4.83 Return procedure:

- (a) The equipped electronic boards are packaged in individual electrostatic envelopes. They must be stocked in their original package of reception, to insure a good protection against external attacks (see enclosed photos)
- (b) During the equipped electronic boards manipulation, gloves and electrostatic strap must be worn at all times.
- (c) The defective equipped electronic boards have to be returned to SAGEM factory, packaged individually, in the original package (see enclosed photos), in the appropriate ESD box: One box per Sagem reference (check reference written on the box).
- (d) The defective board should display the defect code written on a sticker (placed on the shielding) and written on the ESD bag label too (printed with SMT).

Note:

- On the defective boards, it is necessary to check visually under the metal dome to discover if it shows oxidation marks. The defective boards should be returned with their original metal dome
- Boards with oxidation should not to set in conformance with the warranty
- The defective boards must never be mixed with the complete mobiles

4.84 Placement procedure :

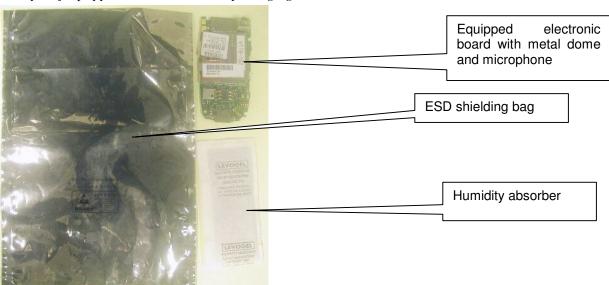
1. Take a board in the stock of swap boards from the same Sagem reference.

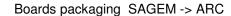
4.85 Further operations :

- 1. Place the new equipped electronic board on the assembly plate. .(Proc sheet 1 09)
- 2. Follow stages (see enclosed photos)



Example of equipped electronic boards packaging:







Boards packaging ARC -> SAGEM



EQUIPPED ELECTRONIC BOARD EXCHANGE

Proc sheet 1 14

myC5-2

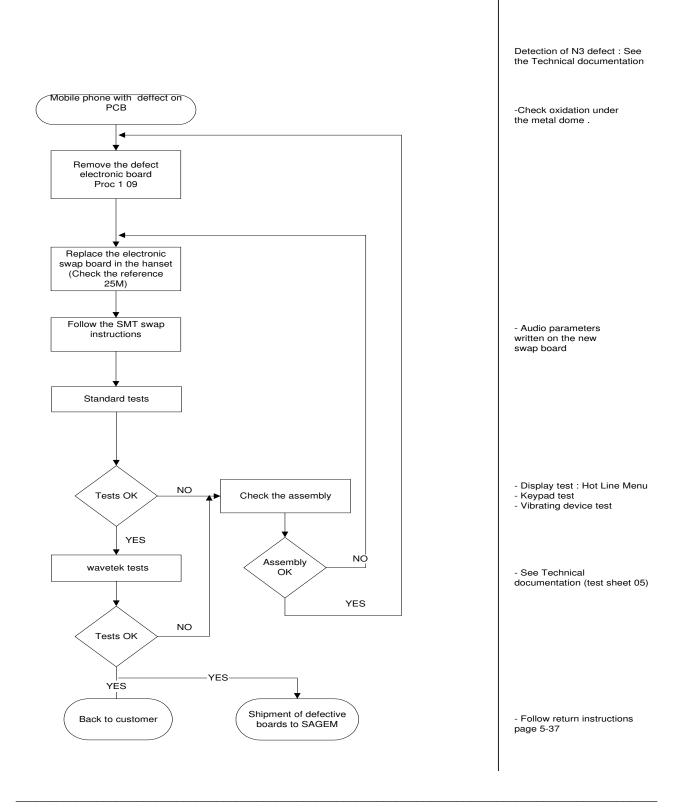
2/3



SAGEM electrostatic shielding box Reference 20 boards: 25 141059-6 Reference 100 boards: 25 141060-3

SAGEM	EQUIPPED ELECTRONIC BOARD EXCHANGE	Proc sheet 1 14
myC5-2		3/3

Electronic board exchange process





LEVEL 2 MAINTENANCE

SAGEM	REMOVING/ REPLACING THE DATA/ AUDIO/ CHARGE CONNECTOR	Proc Sheet 2 01
myC5-2		1/3

Notice: The handsets requiring the replacement of system connectors cannot be repaired under Sagem warranty.

The eventual deterioration of the board due to a bad replacement of the connector fall under the Repair Centre responsibility.

- Replacement procedure of DATA/ AUDIO/ CHARGE connector

- 1-Disassemble the handset Proc 1 09
- 2-Replace the defective connector (see below) Ref: 28 700 046-0
- 3 Replace the electronic board in the mobile phone Proc 1 09
- 4 -To test the replacement of the connector, it is necessary to:
 - a) Connect the mobile phone on SMT maintenance software (test Sheet 01)
 - b) Make real calls with a pedestrian handsfree Kit Reference: 25-130 173-9
 - c) Test the charge of mobile phone
- 5 Standard test after repair

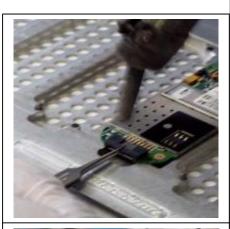


REMOVING/ REPLACING THE DATA/ AUDIO/ CHARGE CONNECTOR

Proc Sheet 201

myC5-2

2/3



- Maintain the electronic board
- flux Correctly the pins of the connector.
- Reference of the flux to be used:
- LITTON flux -Supplier reference 952-D6
 - -SAGEM reference18 775 103-7
- With tweezers, hold the connector and heat the pins up.

ATTENTION:

-Do not pull the connector but let it come , in order to avoid destroying the pads



After having removed the connector, uncork rather quickly the four holes of the connector while the tin is still warm.



Flux and heat the pads in place of the connector to equalise the foot prints



In order to tin the pins of the DATA/ AUDIO/ CHARGE connector, load the solder wick with tin on approximately 1 inch.



REMOVING/ REPLACING THE DATA/ AUDIO/ CHARGE CONNECTOR

Proc Sheet 201

myC5-2

3/3

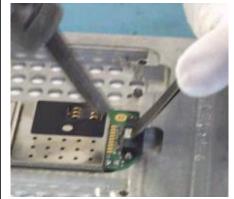


Before any operation,

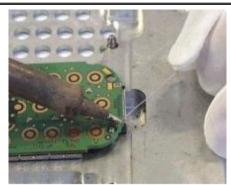
- -flux correctly the pins of the connector.
- -with the solder wick loaded with tin , tin the pins of the DATA/ AUDIO/ CHARGE connector by positioning it straight ahead (pads upward), and by heating the solder wick which is in touch with pins.

Attention:

- At the end of the operation , verify that there is no short circuit between pads



- -Start soldering the connector pins.
- -Flux the place of the connector and position the DATA/ AUDIO/ CHARGE connector.
- -Verify that the pins of the DATA/ AUDIO/ CHARGE connector are well centred on pads.
- -Heat pins with an air blow device while maintaining the connector with tweezers
- -Verify that there is no short-circuit that solders are shiny



At last, solder the 4 pins crossing the board..



LEVEL 3 MAINTENANCE



IMPORTANT

Mobile packaging sent to SAGEM S.A.:

Follow the Proc sheet 1 14

Packaging for swap or mobile components storage:

The swap and the mobile components must be stored with a particular care especially for the most sensible component (Display, loudspeaker etc...).



TECHNICIAN DEFECT CODE LIST		LISTE DES CODES DEFAUTS TECHNICIENS				
Code SAGEM		Type of fault	Co	de SAG	GEM	Type de défauts
		DISPLAY PROBLEM				PROBLEME D'AFFICHAGE
Λ.1		NO POWER UP - DEFECTIVE INTERNAL LCD	A1	_	_	PAS D'AFFICHAGE - LCD INTERNE DEFECTUEUX
A1 A3	\blacksquare	FREEZES UP INTERNAL LCD	A3	-	-	BLOCAGE DE L AFFICHAGE LCD INTERNE BLOCAGE DE L AFFICHAGE LCD INTERNE
A5	\blacksquare	BROKEN INTERNAL LCD	A5		1	AFFICHEUR CASSE LCD INTERNE
A6		MISSING LINE, DIGIT or PIXEL, CONTRAST, COLOR INTERNAL LCD	A6		1	LIGNE, DIGIT OU PIXEL MANQUANT, CONTRASTE, COULEUR LCD INTERNE
A7		BACKLIGHTS PROBLEM INTERNAL LCD	A7		1	PB RETROECLAIRAGE LCD INTERNE
A11		NO POWER UP - DEFECTIVE EXTERNAL LCD	A11		1	PAS D AFFICHAGE LCD EXTERNE DEFECTUEUX
A13		FREEZES UP EXTERNAL LCD	A13		1	BLOCAGE DE L AFFICHAGE LCD EXTERNE
A14		BROKEN EXTERNAL	A14		1	AFFICHEUR CASSE LCD EXTERNE
A15		MISSING LINE, DIGIT or PIXEL, CONTRAST, COLOR EXTERNAL LCD	A15			LIGNE, DIGIT OU PIXEL MANQUANT, CONTRASTE, COULEUR LCD EXTERNE
A16		BACKLIGHTS PROBLEM EXTERNAL LCD	A16			PB RETROECLAIRAGE LCD EXTERNE
		ANTENNA PROBLEM				PROBLEME D'ANTENNE
A10		BROKEN / MISSING ANTENNA				ANTENNE CASSEE / ABSENTE
		POWER SUPPLY / CHARGING PROBLEM			_	PROBLEME D'ALIMENTATION / CHARGEUR
B1	Н	DEFECTIVE MOBILE BATTERY CONTACT DEFECTIVE MOBILE CHARGER CONNECTOR	B1	-		CONTACT BATTERIE DU MOBILE DEFECTUEUX CONNECTEUR DE CHARGE DU MOBILE DEFECTUEUX
B2	\blacksquare	DEFECTIVE MOBILE CHARGER CONNECTOR DEFECTIVE POWER SUPPLY OF THE BOARD	B2	-		ALIMENTATION CARTE DEFECTUEUSE
B3	\blacksquare	DEFECTIVE FOWER SUFFLY OF THE BOARD DEFECTIVE CHARGE ICON DISPLAY	B3	-		AFFICHAGE CHARGE DEFECTUEUX
B4 B5	-	CURRENT CONSUMPTION WITH PHONE OFF	B4 B5	-	-	CONSOMMATION MODE ETEINT
вэ В7	-	INSUFFICIENT BATTERY DURATION	вэ В7	-	-	PROBLEME D'AUTONOMIE
в <i>т</i> В8	\blacksquare	ELECTRICALLY DEFECTIVE BATTERY	B8	H	1	BATTERIE DEFECTUEUSE
во В9	$\boldsymbol{\vdash}$	MECHANICAL LOCK PROBLEM ON BATTERY	B9		1	TENUE MECANIQUE BATTERIE
B10	\blacksquare	BROKEN BATTERY	B10	H	1	BATTERIE CASSEE
B11		DEFECTIVE CHARGER	B11		1	CHARGEUR DEFECTUEUX
B12		BROKEN CHARGER	B12		1	CHARGEUR CASSE
B13		INTERMITTENT SWITCH OFF WITH REBOOT	B13		1	COUPURE INTERMITTENTE AVEC REDEMARRAGE
B14		INTERMITTENT SWITCH OFF WITHOUT REBOOT	B14	İ	1	COUPURE INTERMITTENTE SANS REDEMARRAGE
		KEYBOARD PROBLEM			*	PROBLEME DE CLAVIER
C1		NOT FUNCTIONING BODY KEYBOARD	C1			CLAVIER INOPERANT CORPS PRINCIPAL
C2		SIDE KEY PROBLEM	C2			PROBLEME TOUCHE LATERALE
C3		NOT FUNCTIONING FLIP OR SLIDE KEYBOARD	СЗ			CLAVIER INOPERANT FLAP/SLIDE
		ERROR MESSAGE				MESSAGE D'ERREUR
D1		SIM MISSING	D1			SIM ABSENTE
D2		OTHER MESSAGES	D2			AUTRES MESSAGES
D4		UNTUNED MOBILE	D4			MOBILE NON REGLE
D6		SIM VERROU	D6		4	SIM VERROU
D7	_	POST CODE BLOCKED	D7			CODE POSTE
D8		SAV RETURN	D8	_		RETOUR SAV
		AUDIO PROBLEM DEFECTIVE LOUDSPEAKER (hails)	F-4	_	1	PROBLEME AUDIO HP DEFECTUEUX
E1	\blacksquare	DEFECTIVE LOUDS FEAREN (Halls) DEFECTIVE MICROPHONE	E1	-	1	MICRO DEFECTUEUX
E3 E5	lacksquare	VIBRATING DEVICE PROBLEM	E3 E5	-		PROBLEME DE VIBREUR
E6	\blacksquare	DEFECTIVE AUDIO CONNECTOR	E6			CONNECTEUR AUDIO DEFECTUEUX
LU		COMMUNICATION PROBLEM	LO			PROBLEME DE COMMUNICATION
F1		NO NETWORK RETRIEVAL	F1	1	1	PAS DE LOCALISATION RESEAU
F2		INTERMITTENT CALLS DROP	F2		1	COUPURE DE COMMUNICATION
F4		TEST RADIO NO OK	F4			TEST RADIO NON OK
F5		OUTGOING CALL FAILURE	F5			ECHEC APPEL SORTANT
F6		INCOMING CALL FAILURE	F6			ECHEC APPEL ENTRANT
F7		NETWORK TEMPORARY DROP	F7			PERTE TEMPORAIRE DE RESEAU
		COSMETIC PROBLEM				PROBLEME COSMETIQUE / DEFAUT VISUEL
G1	ш	BROKEN OR DAMAGED BODY GLASS	G1	<u> </u>		VITRE CASSEE OU ABIMEE CORPS PRINCIPAL
G2	Ш	BROKEN OR DAMAGED COVER	G2	lacksquare		COQUE CASSEE OU ABIMEE
G3	oxdot	BROKEN OR DAMAGED FLIP	G3	<u> </u>	1	FLAP CASSE OU ABIME
G5	\blacksquare	BROKEN OR DAMAGED BODY KEYBOARD	G5	—	4	CLAVIER CASSE OU ABIME CORPS PRINCIPAL
G6	$oldsymbol{oldsymbol{\sqcup}}$	DEFECTIVE LOCK BUTTON BROKEN OR DAMAGED GLASS FLIP/SLIDE	G6	—	1	BOUTON VERROU DEFECTUEUX VITRE CASSEE OU ABIMEE FLAP/SLIDE
G7	H	BROKEN OR DAMAGED GLASS FLIP/SLIDE BROKEN OR DAMAGED FLIP/SLIDE KEYBOARD	G7	-	1	VITHE CASSEE OU ABIMEE FLAP/SLIDE CLAVIER CASSE OU ABIME FLAP/SLIDE
G8		DITORIES OF DRIVINGED FEIT/OLDE NETBOARD	Uδ	1	1	
		OTHER PRORI EM				ALITRES PROBLEMES
ы I		OTHER PROBLEM BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS)	Цi	Г	T	AUTRES PROBLEMES KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH)
H1 H2	H	BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS)	H1	F	1	KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH)
H2	H	BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile)	H2	E	-	KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3
H2 I1	Ħ	BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS)	H2 I1			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH)
H2 I1 I3		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS	H2 I1 I3	E		KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION
H2 I1 I3 I10		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND	H2 I1			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE
H2 I1 I3 I10 I5		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process)	H2 I1 I3			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte)
H2 I1 I3 I10		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU	H2 I1 I3 I10 I5			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU
H2 I1 I3 I10 I5 I6		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR	H2 I1 I3 I10 I5			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX
H2 I1 I3 I10 I5 I6		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU	H2 I1 I3 I10 I5 I6			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU
H2 I1 I3 I10 I5 I6 I7		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT	H2 I1 I3 I10 I5 I6 I7			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRAGE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE
H2 I1 I3 I10 I5 I6 I7		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION	H2 I1 I3 I10 I5 I6 I7			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE
H2 I1 I3 I10 I5 I6 I7 I8 I9		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION	H2 I1 I3 I10 I5 I6 I7 I8 I9			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP
H2 I1 I3 I10 I5 I6 I7 I8 I9		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION GPRS FUNCTION	H2 I1 I3 I10 I5 I6 I7 I8 I9			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONIEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION WAP FONCTION GPRS
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION WAP FONCTION WAP FONCTION SMS, EMS, MMS.
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION GPRS FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN PC
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PCOKET PC or PALM DATA (MESSAGE "NO CARRIER DETECTED")	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION GPRS FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN PC NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM LIAISON DATA (MESSAGE "AUCUNE PORTEUSE DETECTEE")
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A POCKET PC or PALM DATA (MESSAGE "NO CARRIER DETECTED") DOWNLOADING GAME	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION WAP FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN PC NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM LIAISON DATA (MESSAGE "AUCUNE PORTEUSE DETECTEE") TELECHARGEMENT JEUX
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10 K11		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PC DOWNLOADING GAME DOWNLOADING GAME	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10 K11			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN PC NE COMMUNIQUE PAS AVEC UN PC NE COMMUNIQUE PAS AVEC UN PCTEUSE DETECTEE*) TELECHARGEMENT JEUX TELECHARGEMENT JEUX TELECHARGEMENT JEUX TELECHARGEMENT JMAGE / SON / ECONOMISEUR D'ECRAN
H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10		BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS) FM OR MP3 FUNCTION (Mobile) OXYDATION MARKS NO FAULT FOUND NO FAULT FOUND SECOND RETURN (excepted during short loop process) LACK FUNCTION IN THE MENU DEFECTIVE SIM CONNECTOR MALFUNCTION OF THE MENU MOBILE RETROFIT BLACK LIST MULTIMEDIA PROBLEM VIDEO FUNCTION WAP FUNCTION GPRS FUNCTION SMS, EMS, MMS FUNCTION NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A PC NO COMMUNICATION WITH A POCKET PC or PALM DATA (MESSAGE "NO CARRIER DETECTED") DOWNLOADING GAME	H2 I1 I3 I10 I5 I6 I7 I8 I9 K2 K4 K5 K6 K7 K8 K9 K10			KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH) FONCTION FM (MOBILE) OU MP3 TRACE D OXYDATION PAS DE DEFAUT CONSTATE PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte) MANQUE FONCTION DANS MENU CONNECTEUR SIM DEFECTUEUX DYSFONCTIONNEMENT D'UNE FONCTION DU MENU RECONFIGURATION DU MOBILE BLACK LISTE PROBLEME MULTIMEDIA FONCTION VIDEO FONCTION WAP FONCTION WAP FONCTION SMS, EMS, MMS. NE COMMUNIQUE PAS AVEC UN PC NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM LIAISON DATA (MESSAGE "AUCUNE PORTEUSE DETECTEE") TELECHARGEMENT JEUX



RETURN TO CUSTOMER

Proc Sheet 3 02

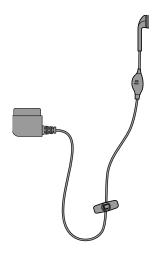
myC5-2

CUSTO	OMER DEFECT CODE LIST	LISTE DES CODES DEFAUTS CLIENTS (SYMPTOMES)			
Code SAGEM	Type of fault	Code SAGEM	Type de défaut		
			1		
A0	DISPLAY MALFUNCTION INTERNAL LCD	A0	AFFICHAGE DEFECTUEUX LCD INTERNE		
A18	DISPLAY MALFUNCTION EXTERNAL LCD	A18	AFFICHAGE DEFECTUEUX LCD EXTERNE		
A10	ANTENNA BROKEN / MISSING	A10	ANTENNE CASSEE / ABSENTE		
30	POWER SUPPLY / NO CHARGE	В0	ALIMENTATION/CHARGE		
37	AUTONOMY	B7	PROBLEME D'AUTONOMIE		
38	BROKENBATTERY	B8	BATTERIE DEFECTUEUSE		
311	CHARGER MALFUNCTION	B11	CHARGEUR DEFECTUEUX		
00	BODY KEYBOARD MALFUNCTION	C0	PROBLEME CLAVIER CORPS PRINCIPAL		
02	LATERAL TOUCH PROBLEM	C2	PROBLEME TOUCHE LATERALE		
C3	FLIP / SLIDE KEYBOARD PROBLEM	C3	PROBLEME CLAVIER OU SLIDE		
00	ERROR MESSAGE	D0	MESSAGE D'ERREUR		
01	SIM MISSING	D1	SIM ABSENTE		
07	POST CODE BLOCKED	D7	CODE POSTE		
Ε0	AUDIO PROBLEM	E0	PROBLEME AUDIO		
≣5	VIBRATING DEVICE MALFUNCTION	E5	PROBLEME DE VIBREUR		
	-				
=0	COMMUNICATION MALFUNCTION	F0	PROBLEME DE COMMUNICATION		
G1	BROCKEN GLASS	G1	VITRE CASSEE OU ABIMEE		
G2	BROCKEN COVER	G2	COQUE CASSEE OU ABIMEE		
G3	BROKEN FLIP	G3	FLAP CASSE OU ABIME		
G5	BROCKEN KEYBOARD	G5	CLAVIER CASSE OU ABIME		
G6	DEFECTIVE LOCK BUTTON	G6	BOUTON VERROU DEFECTUEUX		
- 11	DEFECTIVE OR BROCKEN ACCESSORIES	H1	KIT ACCESSOIRES HS		
1 2	FM OR MP3 FUNCTION	H2	FONCTION FM OU MP3 (MOBILE)		
5	LACK FUNCTION IN THE MENU	15	MANQUE FONCTION DANS MENU		
7	MALFUNCTION OF THE MENU	17	DYSFONCTIONNEMENT D'UNE FONCTION DU MENU		
3	MOBILE RETROFIT	18	RECONFIGURATION DU MOBILE		
9	BLACK LIST	19	BLACK LISTE		
0	OTHERS / TO BE PRECISED	10	AUTRES DEFAUTS A PRECISER		
(2	VIDEO FUNCTION	K2	FONCTION VIDEO		
(4	WAP FUNCTION	K4	FONCTION WAP		
(5	GPRS FUNCTION	K5	FONCTION GPRS		
(6	SMS, EMS, MMS FUNCTION	K6	FONCTION SMS, EMS, MMS.		
K10	DOWNLOADING GAME	K10	TELECHARGEMENT JEUX		
K11	DOWNLOADING PICTURE / RINGTONE / SCREEN SAVER	K11	TELECHARGEMENT IMAGE / SON / ECONOMISEUR D'ECRAN		
(12	WIRELESS COMMUNICATION FUNCTION (IRDA;BLUETOOTH)	K12	FONCTION COMMUNICATION SANS FIL (IRDA;BLUETOOTH)		
K13	DATA CABLE COMMUNICATION PROBLEM	K13	PROBLEME COMMUNICATION PAR CABLE DATA		

SAGEM	RETURN TO CUSTOMER	Proc Sheet 3 02
myC5-2		3/3

CHAPTER 6 - ACCESSORIES

4.86 PEDESTRIAN HANDSFREE KIT



4.86.1 Description

Ear support with microphone on the cable for handsfree conversation.

4.86.2 Characteristics

Item	Dimensions	Loudspeaker impedance	Microphone
PEDESTRIAN	Length: 1.25 m Dist. micro/loudspeaker: 25 cm	150 Ω	2,2 kΩ
HANDSFREE KIT		119 dB SPL	-42 dB SPL

SAGEM	RETURN TO CUSTOMER	Proc Sheet 3 02
myC5-2		3/3

CHAPTER 5 - TECHNICAL INFORMATION BULLETIN

5.1 PURPOSE

The purpose of the Technical Information Bulletin (TIB) is to complete the maintenance operations described in this document. They give to the repair centers the complementary technical informations and the corrective procedures to be applied to maintain the product following it's evolution.

5.2 APPLICATION

The Technical Information Bulletin (TIB) are reference and must be applied by the repair centers.

The Technical Information Bulletin (TIB) will be sent only to the concerned repair centers. The Technical Data Bulletin will not be received by the repair centers with a reference number in sequence.

The follow up of the Technical Information Bulletin (TIB) and the action being to be performed are under the responsibility of the repair centers.



CHAPTER 6 - ILLUSTRATED PART CATALOG

8.1 myC5-2 spare parts

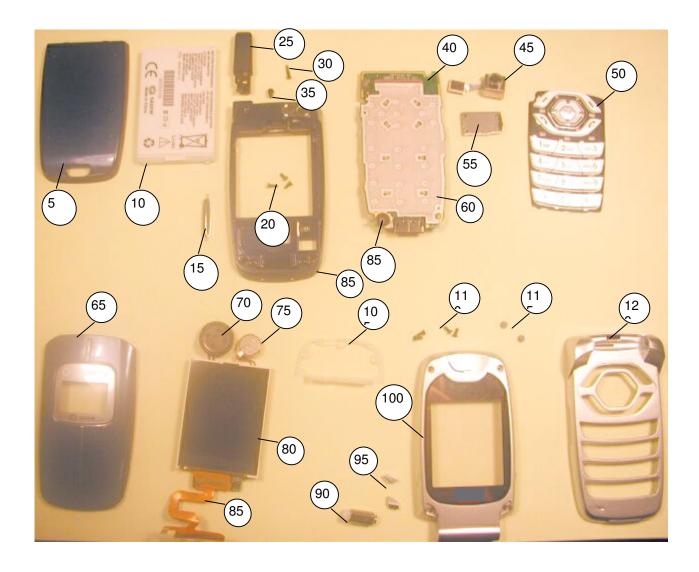
ASSEMBLY	QTY	DESIGNATION
5	1	Battery cover
10	1	Battery pack
15	1	Side key
20	4	Cruciform screw
25	1	Antenna
30	1	Antenna screw
35	1	Antenna screw cover
40	1	Equipped electronic board
45	1	Camera
50	1	Elastomer keypad
55	1	Connector shielding
60	1	Metal dome
65	1	Front flip cover
70	1	Loudspeaker
75	1	Vibrating device
80	1	Display module
85	1	Flex PCB
90	1	Hinge
95	2	Flip screw cover



100	1	Bak flip cover
105	1	Audio gasket
110	4	Cruciform screw
115	2	Flip screw cover
120	1	Back cover



8.2 myC5-2 exploded view





ANNEXE 1 - COMPOSITION TABLE

6.1 PURPOSE

This chapter contains the SAGEM codes of articles mentioned throughout the Site Technical Documentation.

6.2 LIST OF ARTICLES

TEST TOOLS		
Designation	Reference	
-2 Metal dome jig	To define	
-2 calibration tool	To define	
-2 cable	25 150 283-1	

PEDESTRIAN HANDSFREE KIT		
Designation	Reference	
Pedestrian handsfree kit	25 130 173-9	