SITE TECHNICAL DOCUMENTATION
A2005S

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my201X
SAGEM
orange
1
2 ABC
DEF 3
4 GHI
5 JKL
MNO 6
7 PQRS
8 TUV
WXYZ 9
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WXYZ 9
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CONFIDENTIALITY

Contents

CHAPTER 1 - FOREWORD

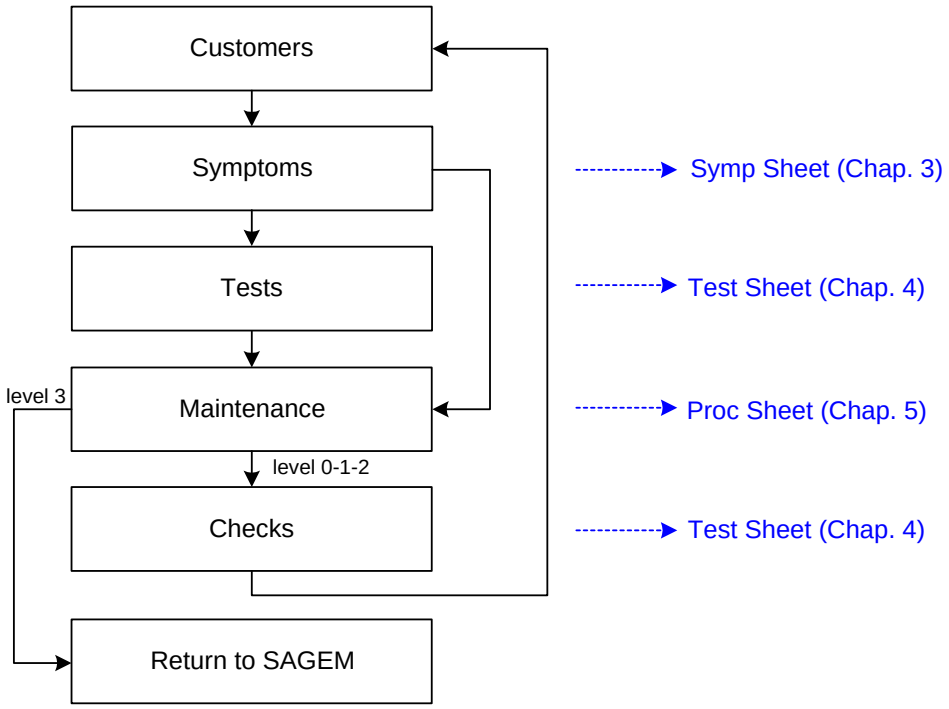
This document is common to all A2005S phones in the SAGEM. It is composed of independent sheets:

- 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.
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 single 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 center, terminates either by returning the product to the customer, or by dispatching it to level 3 maintenance (return to factory).
The procedure sheets have not systematically consecutive numbers ,but always in a growing order.



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 A2005S.

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 A2005S 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.

1.1.1 Use

The DTS can be used by means of computer or by paper medium

-For circulation on the DTS one can use the contents which consists of bonds hypertext, and in bottom of each page, one finds a bond which makes it possible to return until the contents.
-For the paper use an index east provides on last page which indicates the numbers of pages of each heading.

1.2 ABREVIATIONS

AAC	Advanced Audio Codeur
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
DCS	Digital Cellular System
EFR	Enhanced Full Rate
EMS	Enhanced Message Service
FDN	Fixe dial number
GPRS	General Packet Radio Service
GSM	Global System for Mobile
IMEI	Internationnal Mobile Equipment Identity
ISO	International Standard Organisation
LCD	Liquid Crystal Display
LU	Livret d'Utilisation
MMS	Multimedia Message Service
PCS	Personnal Communication Service
PIN	Personal Identity Number

PUK PIN Unlocking key
RF Radio Frequence
SAR Specific Absortion Rate
SIM Subscriber Identity Module
SMS Short Message Service
SMS CB Short Message Service Cell Broadcast
SMT Sagem Mobile Tools
TFT Thin Film Transistor
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.

Document title: **Site Technical Document**

Reference :

Date :

Please fill in the following table :

	Excellent	Good	Fairly good	Passable
Easy to find the required information				
Clarity of information provided				
Quality and accuracy of information given				
Document outline				
Document presentation and appearance				
Quality of illustrations				
General satisfaction				

Do you think this document could be improved ? if so, how ? :

- ☐ Improve the overall view
- ☐ Improve the table of contents
- ☐ Improve the structure
- ☐ Add illustrations
- ☐ Add details
- ☐ Add information

Comments : _____
_____
_____

Would you like to discuss the problems mentioned in this questionnaire? If so, state :

Name of the person to be contacted : _____ Phone : _____

Company : _____ Date : _____

Address : _____

THANK YOU FOR PARTICIPATING IN THIS ENQUIRY. YOUR COMMENTS WILL HELP US CONTINUE TO IMPROVE THE QUALITY OF OUR DOCUMENTATION AND THUS BETTER SATISFY YOUR NEEDS.

When you have filled in this questionnaire, please send it :

- by mail, to **SAGEM S.A.**
  CHEMIN DE BAILLOT BP 357
  82003 MONTAUBAN CEDEX
  FRANCE

YOU CAN CONTACT US ON: cra.mobile@sagem.com

CHAPTER 2 - DESCRIPTION - OPERATION

2.1 REMINDERS ABOUT THE GENERAL CHARACTERISTICS OF GSM 900, DCS 1800 and PCS 1900

Table 1 below gives the characteristics of the radio interface for the GSM 900, DCS 1800 and PCS 1900 systems :

	GSM 900	**DCS 1800**	**PCS 1900**
Frequency Band (MHz)	880 - 915 925 - 960	1710 - 1785 1805 - 1880	1850 - 1910 1930 - 1990
Number of time intervals per TDMA frame	8		
Width 2 x W simplex (MHz)	2 x 25	2 x 75	2 x 60
Duplex spacing (MHz)	45	95	80
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	0,1 to 4
SAGEM terminal power (W)	2	1	1

Table 1 : Radio Interface

Table 2 shows powers as a function of the network:

	GSM 900		**DCS 1800**		**PCS 1900**	
Class number	Maximum nominal power (W)	Allowable interval (W)	Maximum nominal power (W)	Allowable interval (W)	Maximum nominal power (W)	Allowable interval (W)
1	-	-	1	[0,63 ; 1,6]	1	
2	8	[5,0 ; 12,7]	0,25	[0,16 ; 0,4]	0,25	
3	5	[3,2 ; 7,9]	4	[2,5 ; 6,3]	2	
4	2	[1,3 ; 3,2]				
5	0,8	[0,5 ; 1,3]				

Table 2: Terminals power class

2.2 REMINDERS ABOUT THE CHARACTERISTICS AND OPTIONS

General characteristics

Name

Name	A2005S

Size

Dimensions	NA
Weight	104,2 x 42,6 x 16
Volume	75 TBC

Power management

Battery type	71
Connector type	Li-Ion 650mAh
Charging time	Clam
Talk time	TBD
Standby time	TBD

User interface

Screen type	TBD
Specific keys	
Colours	BLACK AND
Number of lines	NA
Screen size	up to 7 lines + 1 icon column
Screen resolution	TBD
Backlight	101 X 64
Sub LCD	YES, proposed in option

Customisation

Handset colours	NA
Interchangeable covers	up to 3 injected colours TBD

Radio

Type GSM	NO
GSM Band	triband
Voice codecs	E-GSM, AMR

Operating system

Operating System	HR,EFR,FR

Connectivity

Radio

GPRS	Propietary
EDGE	no
UMTS	no

Internet

Browser	no
Push	no
Fax modem	no

Data transfer

Serial	no
SynchML	
IrDA	no
Bluetooth	no
USB	no
Wifi	only for sofware upgrade
PC synchronisation	no

Multimedia

Messaging

SMS	no
Notification	

EMS	MO/MT/CB
MMS	NO
E mail	NO
IMPS	no
Predictive text input	no

Video & images

Camera	yes in option
Image features	no
Video Player	no
Image Format	no

Audio

Audio player	na
Audio Recorder	no
FM radio	no
Polyphonic ringtones	no
Audio formats	yes,8 tones

Entertainement

Wallpaper	Wave,iMelody 1.2,Midi (8 tones)
Screensaver	yse
Clock display	yes
Icons	yes
Skins	up to 20
Ringtone	na
Boot up and shut down sequences	up to 15
Bookmarks inserted in Games menu	yes
Embedded Games	yes
Downloaded application	yes, 1

JAVA

JAVA	no

OTA dowload

Protocol supported	no
Wallpapers	NA
Animation	NA
Menu icon	NA
Download skins	NA
Games	NA
Ringtones	NA
Java application	NA
Reproduction dossier	NA

Real time dowload

Flux audio	implicit
Flux video	not supported
Special features	not supported

Call management

Voice features

Mute mode	not supported
Numerotation vocale	no
Integrated handsfree mode	no

Adress book features

Call group	no
Ringtone and Icone customisation	yes
Personal information management	no

Advanced features

Conference call	no
Anonymus mode	yes
Call wait	yes
Call forwarding	yes
Automatic redial	yes
SIM toolkit	yes
Vibrate mode	yes
Speed dialing	yes
Call list	voice mail
Caller ID	yes
Any key answer	yes
Automatic hang up	no

Special features

Keyboard features

Scroll key	yes
Programable key	4-way navigator
Side key	2 programable keys
Direct access key	no
Keypad lock	2 programable keys
Silent key	yes
International access key	yes
Menu key	yes , long press on 0

Personnal management features

Calculator	yes
Alarm Clock	yes
Timer	yes
Organizer	yes
To do	no

Voice recorder	no
Currency converter	no
Languages	yes

Memory

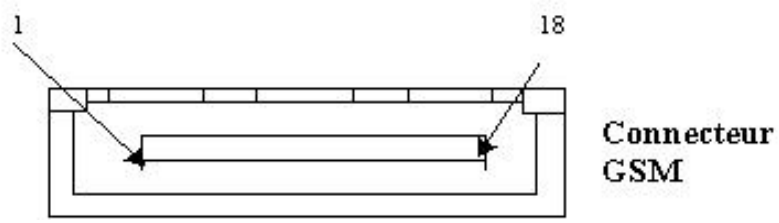
Memory

Internal phone book	yes, set of 2(english+1 non latin) or 5 (latin)
Memoire message	up to 100
Redial List	up to 10
Additional multimedia memory	20
Embedded memory	no

2.3 IN & OUT CONNECTOR

2.3.1 Connector description

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



2.3.2 Signal description

Symbol	Pin connector	Signal fonction
HSCMICIP	1	Differential inpout for external microphone
HSCMICN	2	Differential inpout for external microphone
HSOL	3	STEREO AND MONO AUDIO OUTPUT
HSOR	4	STEREO AND MONO AUDIO OUTPUT
VBAT	5	POWER SUPPLY IMAGE VOLTAGE, connect this signal to "CHARGER" (pin n°1) to switch the module on.
INTI2C	6	Interrupt signal reserved for sagem specific accessories
CTS	7	Link v24 suit for accessory data
RTS	8	Link v24 suit for accessory data
DSR	9	Link v24 suit for accessory data
DTR	10	Link v24 suit for accessory data
TXD1	11	Link V24 suit for accessory data
Chargeur	12	Phone set power ON and power supply signal
GND	13	ZERO VOLT
RXD1	14	Link V24 suit for accessory data
R1	15	Complete V24 tie for data accessories
DCD	16	Complete V24 tie for data accessories
RXD2	17	Application input serial n°2
Chargeur	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 Desrcription

a : IMEI (bar code),
b : IMEI (15 characters)
c : Reference of product / aesthetic used .
d : Production area Indication,
e : Production date (date code)
Ex. F260/03 = (F) fabrication area (F : Fougères), (260) day of year, (03) last digit of year (03®2003).
f : Logo and agreement.
g : Product designation
h : CE norm
i : Forbidden to put the mobiles in the bin

2.4.3 Description after repair

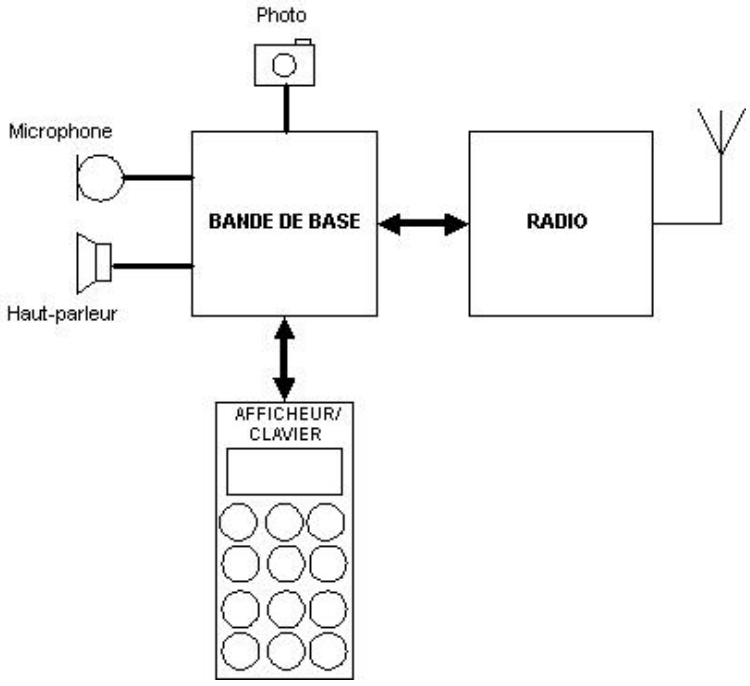
A new sticker is positioned by the Repair Center on the antenna:

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

- CRA XXX -> N° de CRA.
- 260/03 -> Date of repair (260), repairing day (03), last digit of year (03->2003).

2.5 PHONE BLOCK DIAGRAM

2.5.1 block diagram



2.5.2 Standards and environment

The phone complies with the following standards.

Directive EEC 1999 / 5 / CE
Safety (security) EN 60950
CEM EN 301 489-1 / EN 301 489-7
Voltage 73 / 23 / EEC
Network 3GPP TS 51.010-1 v 5.2.0 with included GCF-CC V 3.10.0
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 A2005S are given in the "User's handbook" supplied with the handset. This chapter only describes equipment that operates with the A2005S handset.

2.6.1 Battery packs

ÿþ2 . 6 . 1 . 1 C a r a c t e r i s t i C S

Designation	Technology	Weight	Voltage	Capacity

2.6.1.2 Description

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

- mains power supply module.

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-Ion regulations).
·Only use original mains power supply module.

2.6.1.3 Charging time

The following table shows typical charging times for different batteries.

Battery : Li-Ion 650mAh

Charger	simple unregulated chargers 230	
Voltage	230 V (110V)	
Charging times	2 h	1h 45

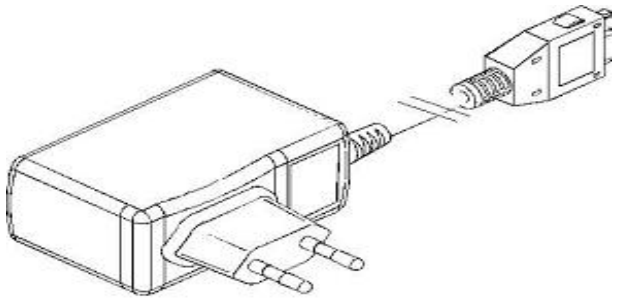
2.6.2 Mains modules

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:

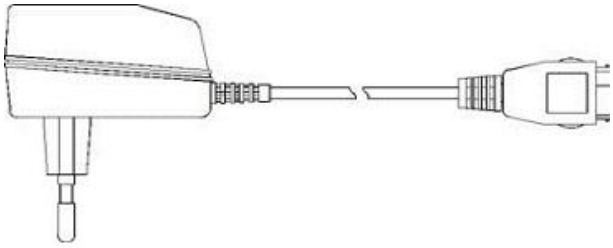
- E.E.C,
- United Kingdom
- United States,
- Australia.

2.6.2.2 Travel mains modules



Designation	Weight (g)	Volume (cm3)	Voltage
US Power supply	125	65	110/230 V
UK Power supply	110	90	110/230 V
AUS Power supply	100	75	110/230 V
EEC Power supply	100	75	110/203 V

2.6.2.2 Simple mains modules



Designation	Weight (g)	Volume (cm3)	Voltage
AUS Main module	190	105	230 V
CE Main module	180	85	230 V
charger block angled	180	85	240v
UK Main module	180	120	230 V
US Main module	210	105	110 V

CHAPTER 3 - SYMPTOMS

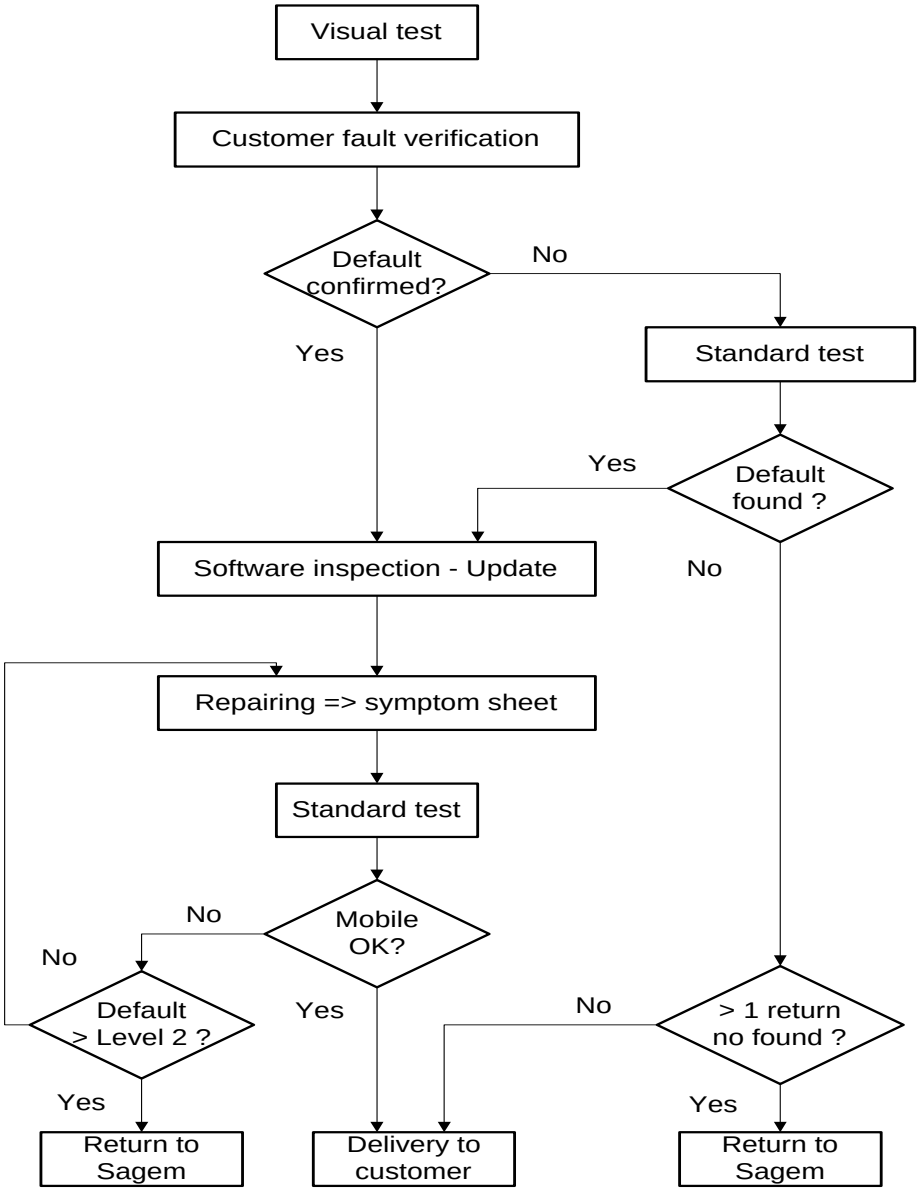
3.1 GENERAL

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.
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.

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

The mobiles will not be refurbished without a special and wtitten authorisation .


Visual test
Customer fault verification
Default confirmed?
No
Yes
Standard test
Yes
Default found ?
Software inspection - Update
No
Repairing => symptom sheet
Standard test
No
Mobile OK?
No
Default > Level 2 ?
Yes
Yes
No
> 1 return no found ?
Yes
Return to Sagem
Delivery to customer
Return to Sagem

Visual test :

-Connector condition (in / out connector, battery, SIM)
-keypad concdition (elastomer,inscription)
-Pane condition
-Plug and position of battery
-SIM card position
-Oxidation
-Charger test

Standard test :

-Display test : Hot Line menu
-Contrast control
-All keypad keys test (check bips keys)
-Audio and radio test
-Battery charge test
-Vibrating device test : Hot Line menu

Software inspection :

For all mobiles to repair, the checking by SMT is mandatory (Test Sheet 01).

3.2 LIST OF REPORTED DEFECTS

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

Default	Anomaly	Procédure
A1	No power up	Symp sheet 04
A2	No display up	Symp sheet 04
A3	Freezes up	Test sheet 01
A5	Broken LCD	Symp sheet 04
A6	Line or digit missing	Symp sheet 04
A10	broken or missing antenna	Proc sheet 1 02
B1	Defective contact battery	Symp sheet 01
B2	Defective charger connector	Proc sheet 1 20
		Proc sheet 3 01
B3	Defective board power supply	Proc sheet 1 20
		Proc sheet 3 01
B4	Defective charge icon display	Proc sheet 1 20
		Proc sheet 3 01
B7	Autonomy	Symp sheet 01
B8	Electrically defective battery	Test sheet 03
B9	Mechanical problem on lock 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 20
		Proc sheet 3 01

B14	Intermittent cut without reboot	Proc sheet 1 20
		Proc sheet 3 01
C1	Not functioning keyboard	Symp sheet 05
D1	SIM missing	Proc sheet 1 20
		Proc sheet 3 01
D2	Other messages	Proc sheet 1 20
		Proc sheet 3 01
D3	EEPROM problem	Proc sheet 1 20
		Proc sheet 3 01
D4	Untuned mobile	Proc sheet 1 20
		Proc sheet 3 01
D5	Hard failure	Proc sheet 1 20
		Proc sheet 3 01
D6	SIM lock	Proc sheet 1 20
		Proc sheet 3 01
D7	Post code	Test sheet 01
D8	Return SAV	Proc sheet 1 20
		Proc sheet 3 01
D9	Unknown battery	Test sheet 03
E1	Defective loudspeaker (hails)	Symp sheet 10
E2	Loudspeaker voice distortion	Symp sheet 10
E3	Defective microphone	Symp sheet 08
E4	Vibrating device malfunction	Symp sheet 07
E5	Vibrating device malfunction	Symp sheet 07
E6	Defective audio connector	Symp sheet 08

F1	No network localisation	Symp sheet 02
F2	Intermittent calls drop	Symp sheet 02
F4	Radio control no OK	Proc sheet 1 20
		Proc sheet 3 01
F5	Outgoing call failure	Symp sheet 02
F6	Incoming call failure	Symp sheet 02
G1	Broken or damaged window	Proc sheet 1 13
G2	Broken or damaged cover	Proc sheet 1 13
G5	Broken or damaged keypad	Proc sheet 1 04
H3	Monetic problem	Proc sheet 1 20
		Proc sheet 3 01
I1	Oxidation mark	Proc sheet 1 20
		Proc sheet 3 01
I3	Monetic function	Symp sheet 03
I5	Defective SIM connector	Test sheet 01
I6	Defective sim connector	Proc sheet 1 20
		Proc sheet 3 01
I7	Lack function in the menu	Test sheet 01
I8	No fault found	Test sheet 01

3.3 ERROR MESSAGES DURING START UP

Message drawn	Message signification	Action
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
UNKNOWN BATTERY	Battery not recognised by the mobile	Replace the battery
MOBILE PHONE LOCKED	Number of seizures of sim locked code exceeded	SAGEM Factory ReturnNot 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)	Attempt of corruption (EEPROM fields)	SAGEM Factory ReturnNot repair under warranty
BATTERY TOO LOW	Battery state	Replace the battery

Nota : Return centre after sales service department SAGEM can concern either the card, or the mobile, according to instructions given to the CRAs.

3.4 OTHER ERROR MESSAGES

Message drawn	Message signification
BUSY	Problems related to the network and Communications

K.PAD LOCKED PRESS *OK	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 AVAIL	Not available
PIN ERROR	PIN input problems
PIN2 BLOCKED	Following input errors
PUK ERROR	Following input errors
PUK2 BLOCKED	Following input errors
CODE ERROR	The phone code input for locking the mobile is incorrect
NOT REACHABLE	Call forwarding if the mobile is not reachable
NOT AVAIL	Service not implemented in the network

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.

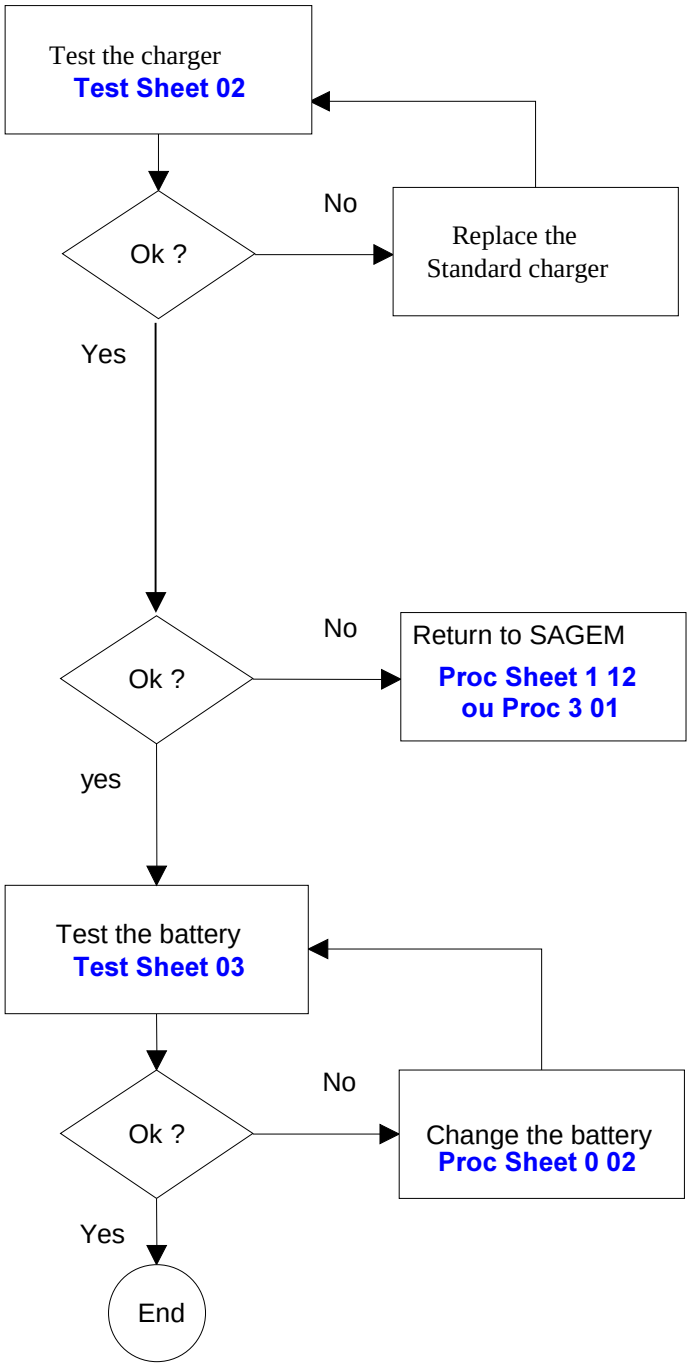
c) In that second case, the ARC will have to request a specific RMA number for this mobile in order to facilitate the treatment when arriving in SAGEM.

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.

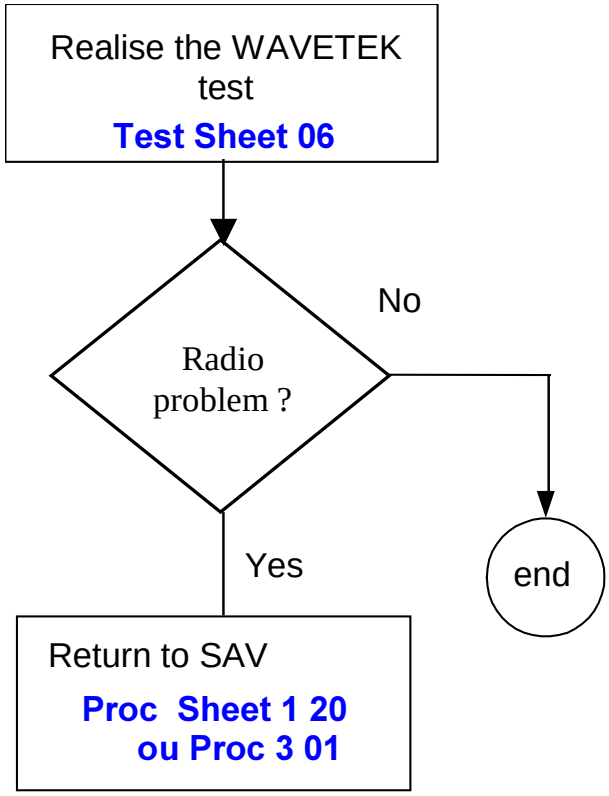
e) The treatment will have to be reproduced on the daily report and will be considered as level 3. Specified fault code will be then the technically closest one of the noted one, in the grid given by SAGEM

SYMPTOM SHEETS

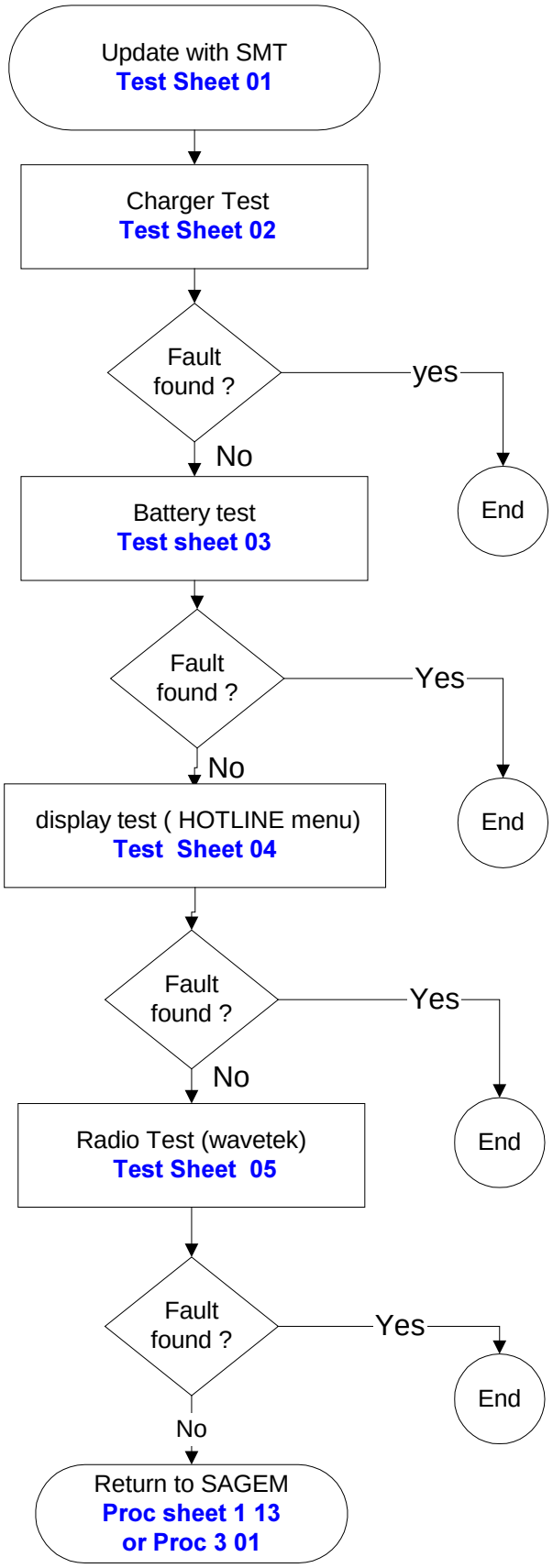
Sagem Communication Groupe SAFRAN	CHARGER BATTERY PROBLEM	SYMP SHEET 01
A2005S		1/1



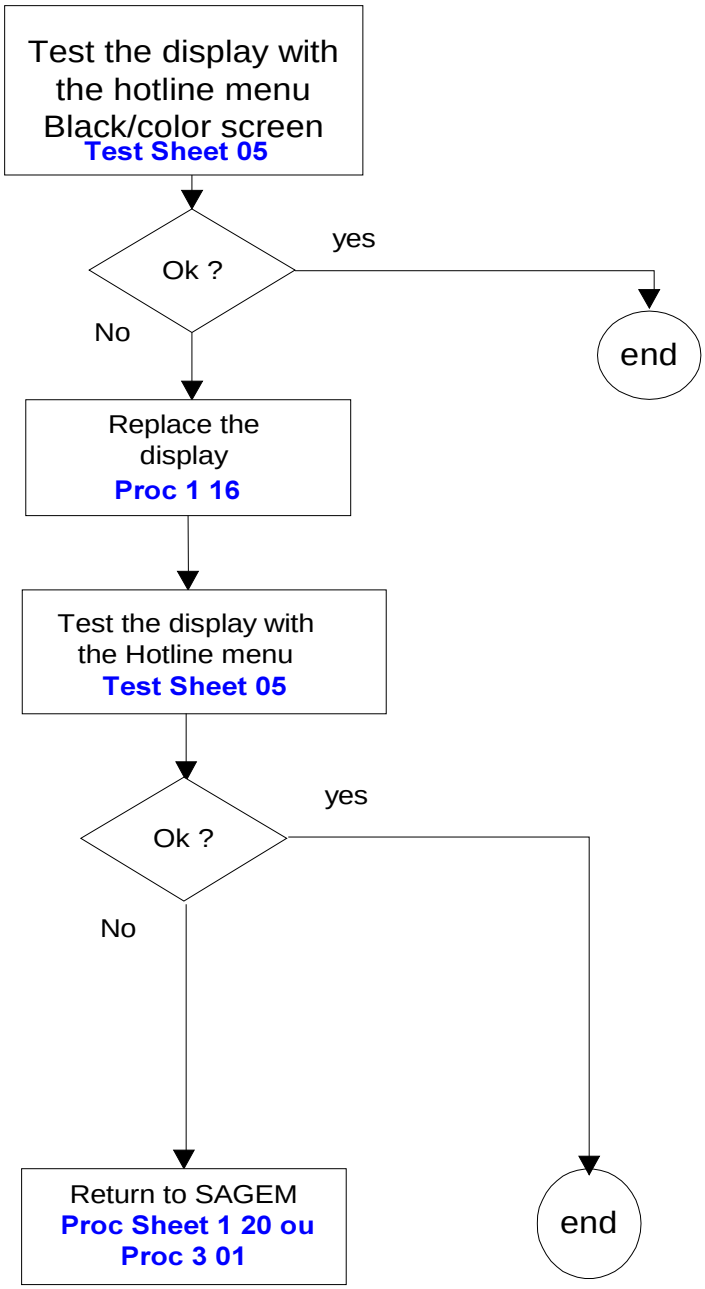
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06



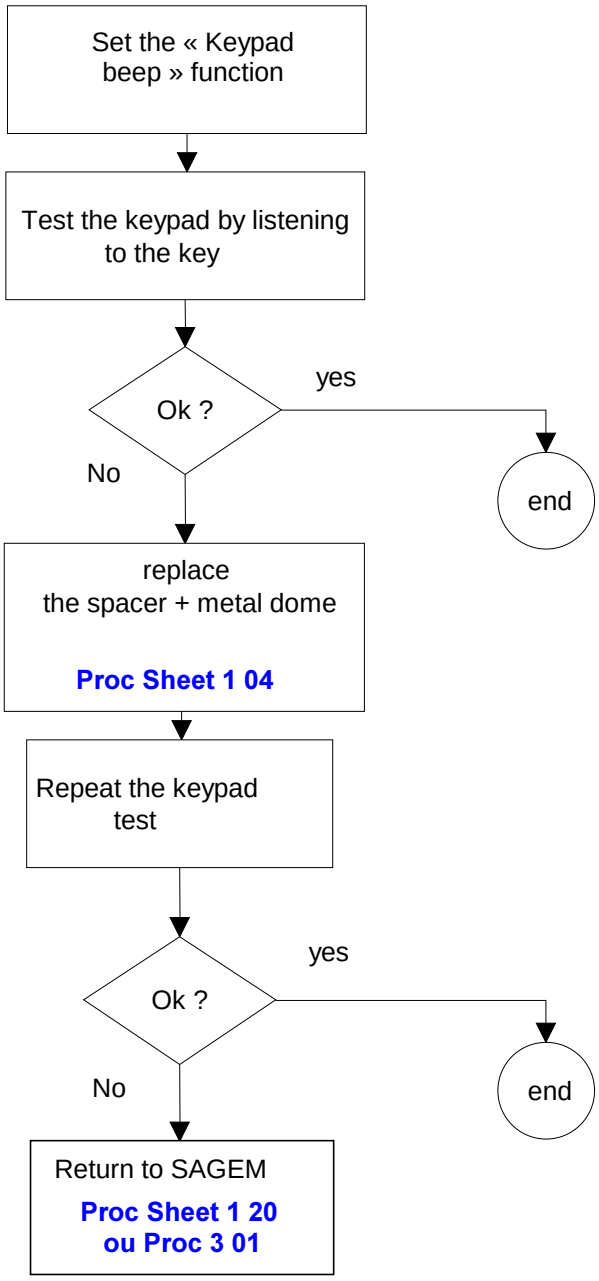
Sagem Communication Groupe SAFRAN	NO FAULT GIVEN	SYMP SHEET 03
A2005S		1/1



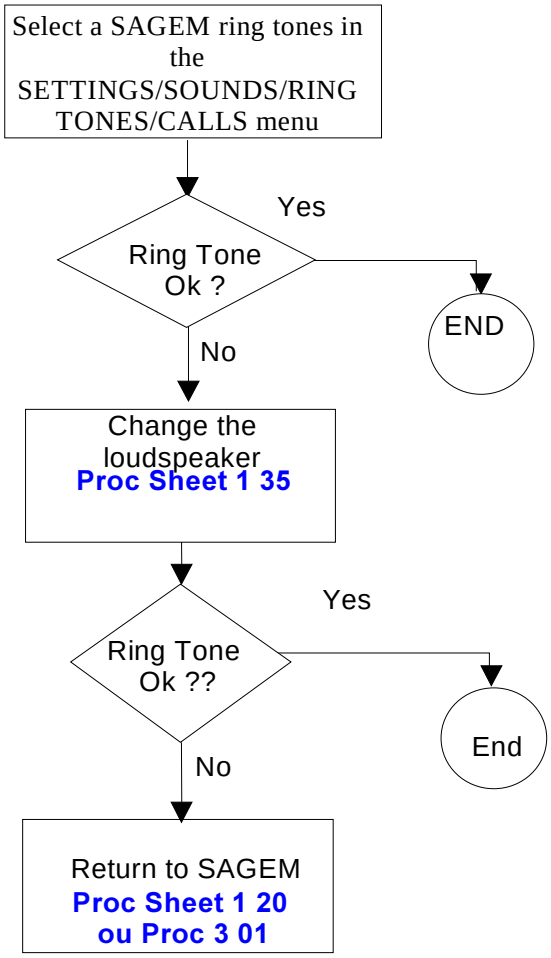
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06



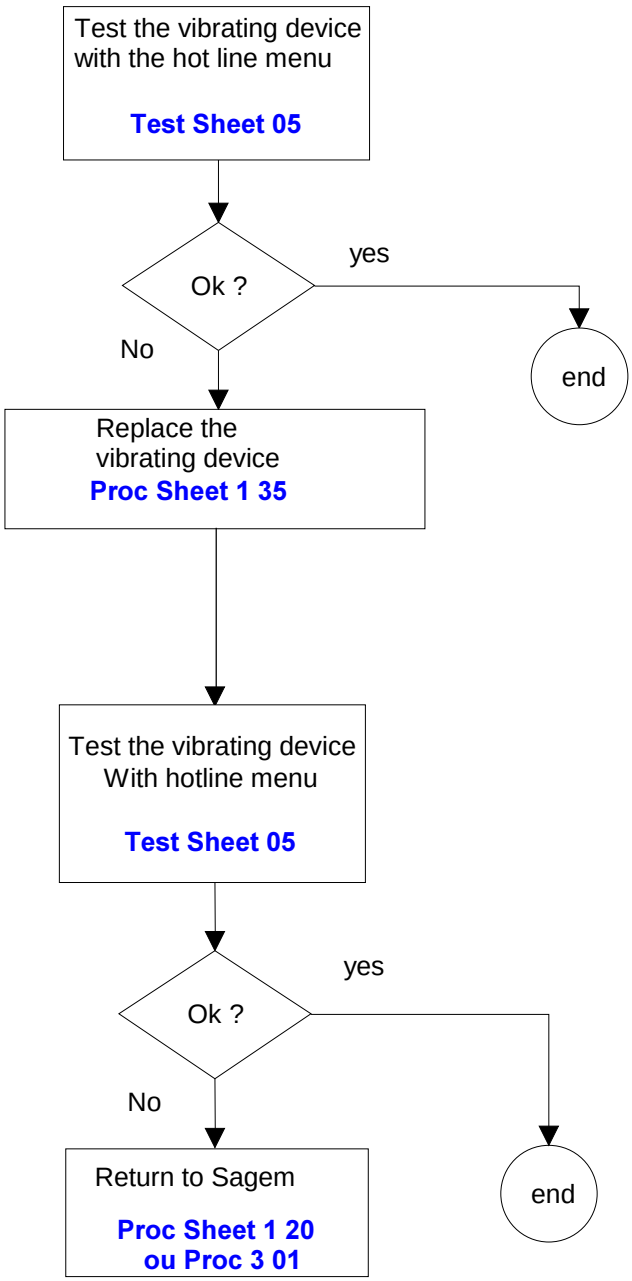
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06



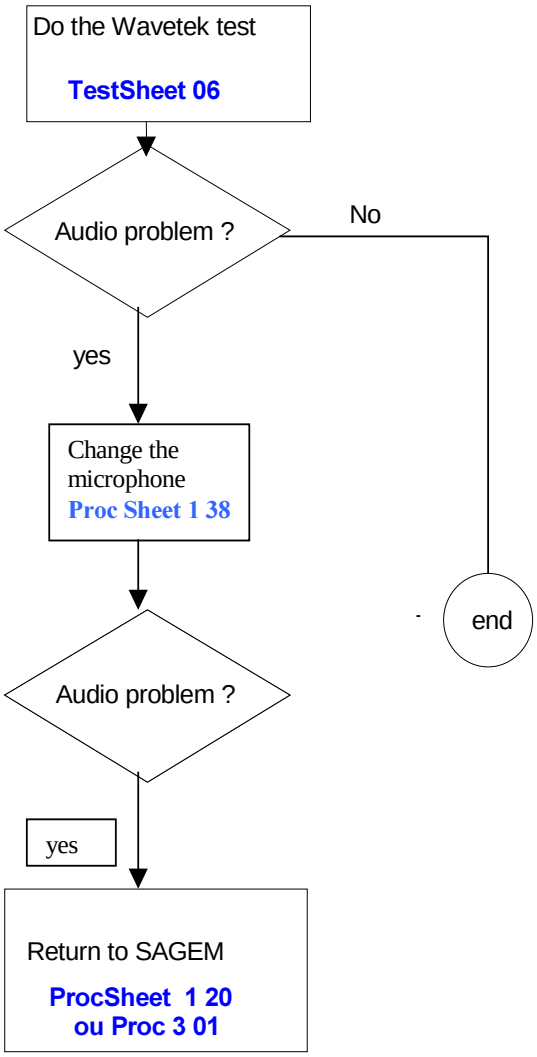
Sagem Communication Groupe SAFRAN	RING TONES PROBLEM	SYMP SHEET 06
A2005S		1/1



Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06

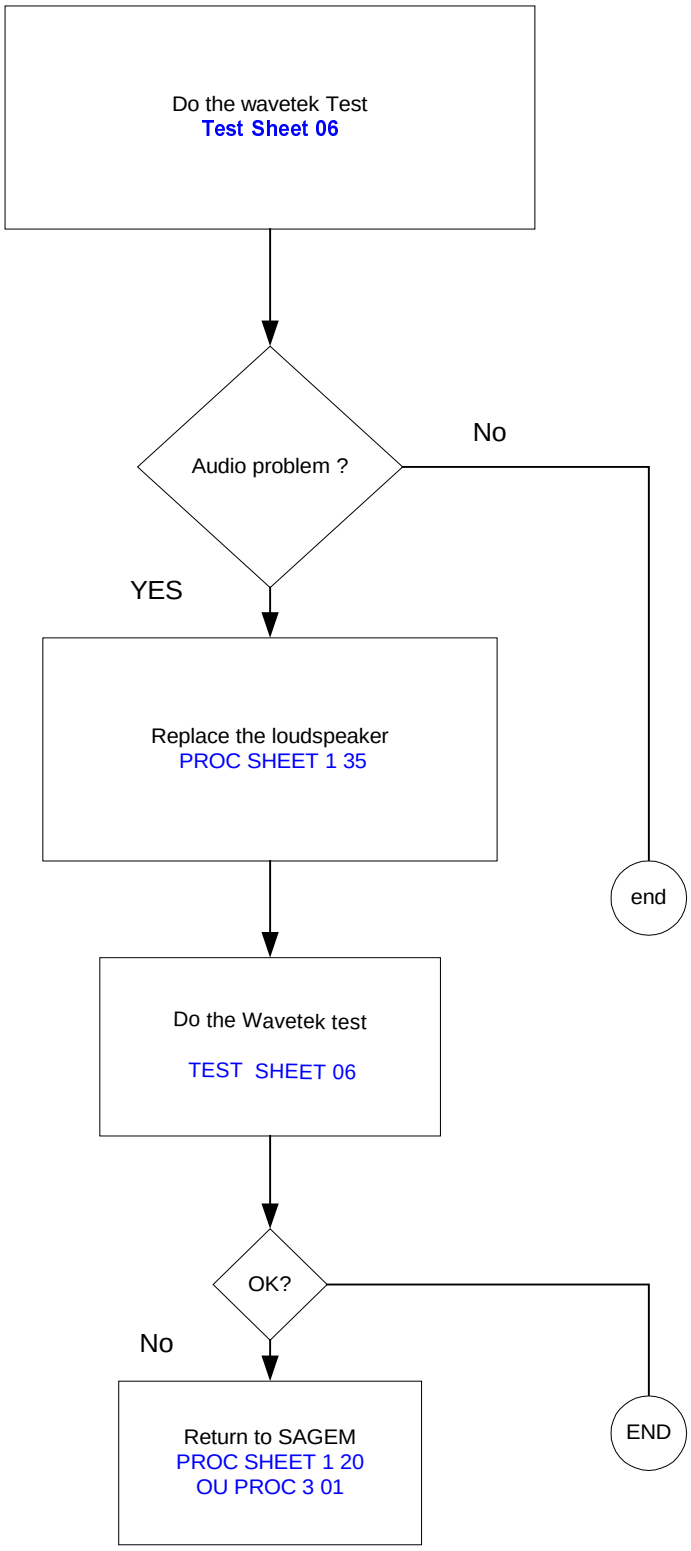


Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06



Sagem Communication Groupe SAFRAN	LOUDSPEAKER PROBLEM	SYMP SHEET 10
A2005S		1/1

Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Test
Test 01
Test 02
Test 03
Test 05
Test 06



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 :

- 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
- the radio test bench, provided with:
  - ·SIM card of test.
  - ·A2005S calibration tool
  - ·Adjustable regulate power supply 0-15V / 4A
  - ·Wavetek 4107
- CADEX C7000 / C7200 / ASTRATEK with myC3-2 adapter
  - ·Charger test kit
  - ·Voltmeter (minimum impedance : 20 KW per Volt in DC)
  - ·Ampermiter

- 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 :

- Processor 1Ghz,
- 128 Mbytes of RAM,
- Windows 2000, Windows XP,
- 2.1 Gbytes hard disk (1 Gbytes available),
- 1 parallel port and 2 serials port.
- USB port.
- Network card, sound card.

4.3.2 Installing the ARC downloading kit

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

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

4.3.3 SMT functions

The SMT maintenance software can:

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

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

TEST SHEETS

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

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

Notice: The active connection with SMT (via the serial port), validates in itself the data functionality of the handset.

Download the latest software

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

The serial port of the PC is connected well, and that the port COM was well selected (pop-up menu TOOLS then CHANGE OF PORT COM)

Configure and check default values

4. Click on the CONFIGURE pop-up menu and then VERIFY (Verfab).
5. Follow the procedures on the screen.

Release the " PHONE CODE"

6. In the case when phone code was programmed by the use.
7. Click on the CONFIGURE pop-up menu and then on RELEASE
8. Follow the procedures on the screen.

Print identification labels

9. Click on the LABEL pop-up menu and then PRINT LABEL .
10. Follow the procedures on the screen (type the date of fabrication).

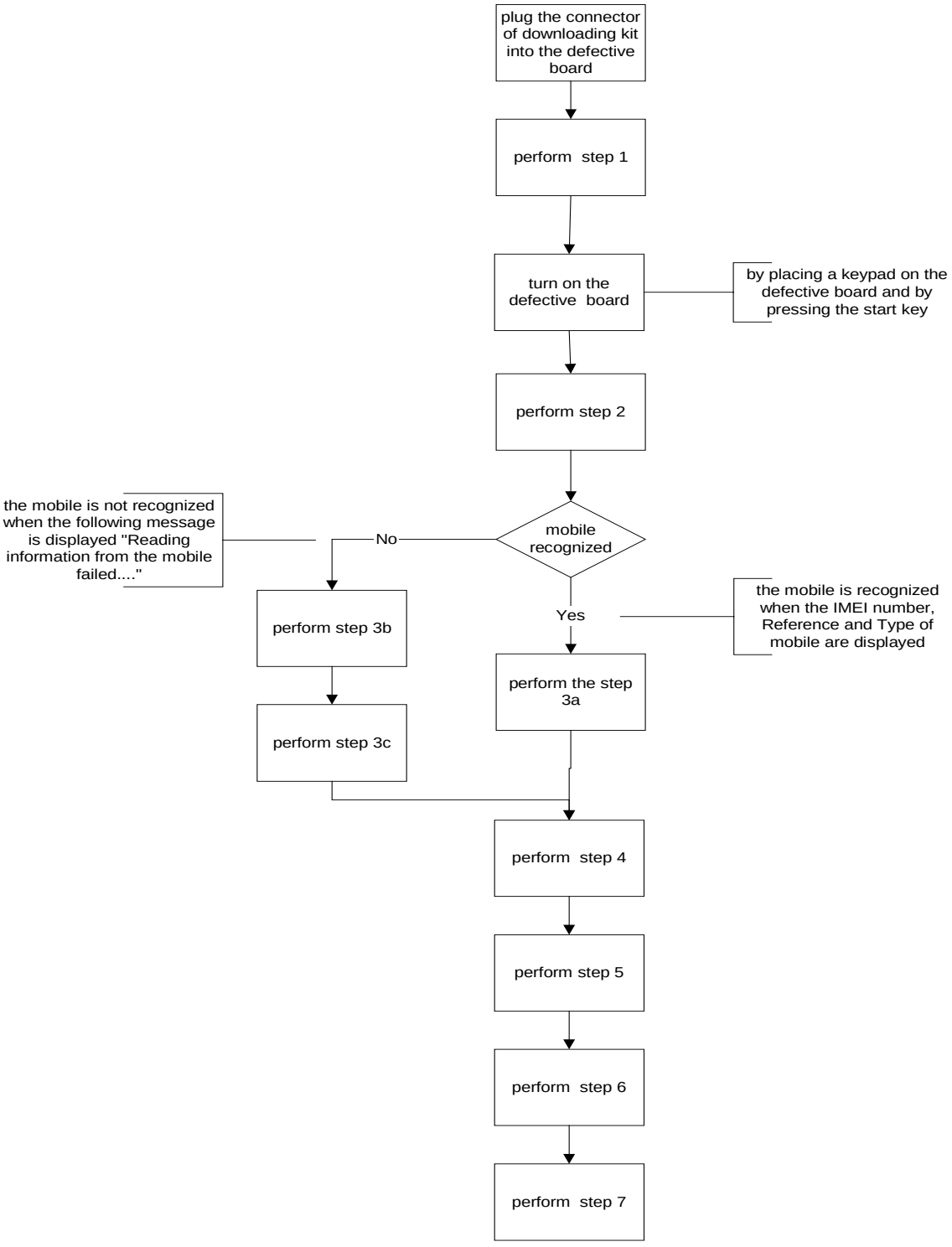
SMT SEQUENCE: Series of the different functions under SMT (sequence of tests)

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

- **Electronic board swap**
  11. To carry out to the exchange of a defective card by SWAP card
  12. Follow the procedures on the screen.

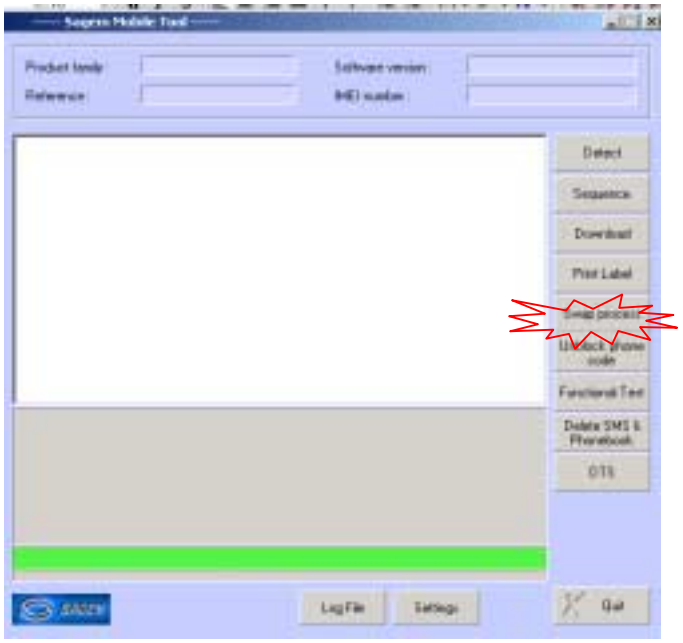
Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

1. SWAP : Electronic board Configuration

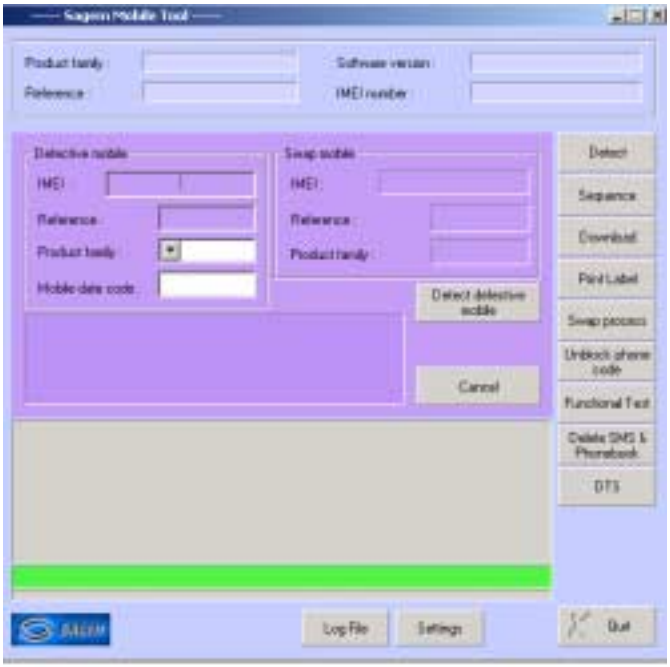


Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

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



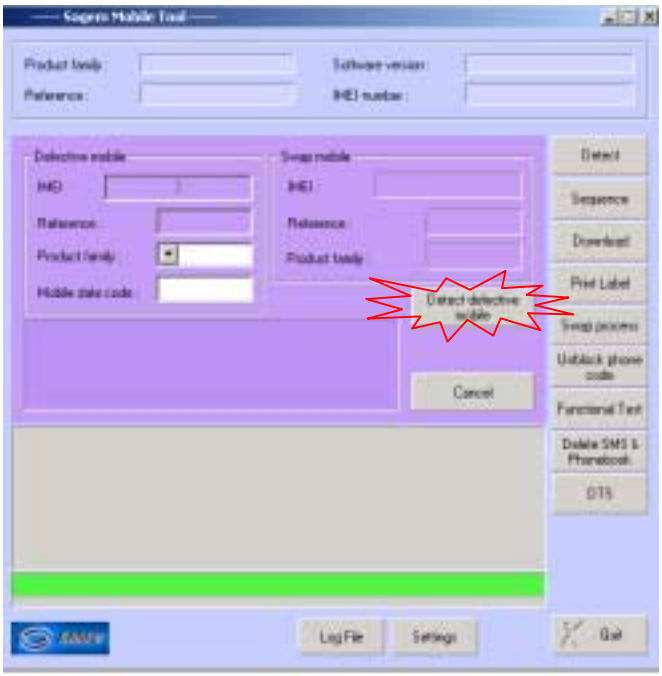
The following screen appears :



Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

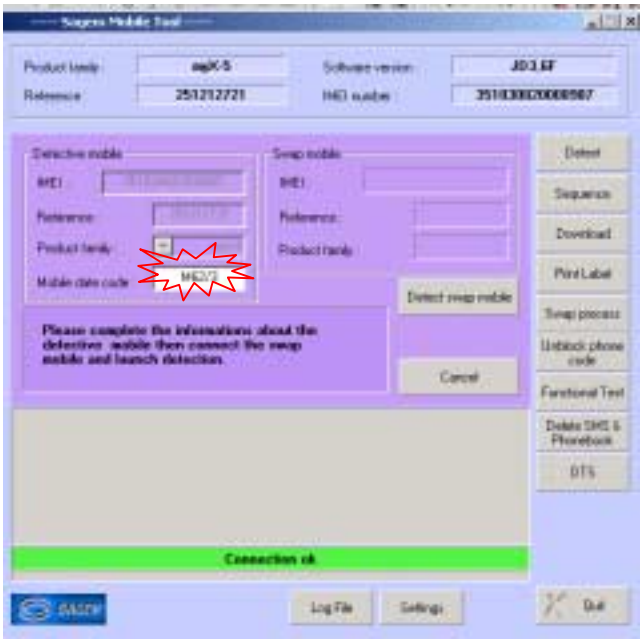
Step 2

Please click on « Detect defective mobile » button



Step 3a

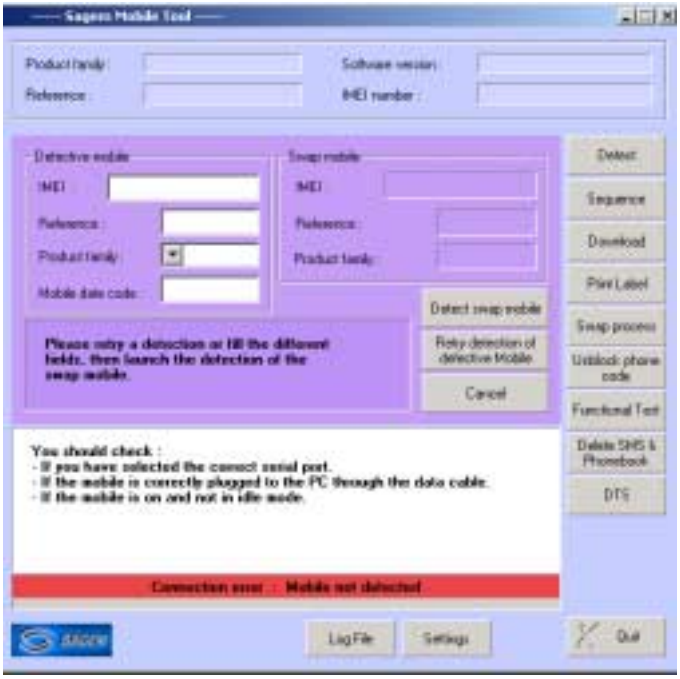
The following screen appears : the mobile is recognized. Then, enter the mobile date code



Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

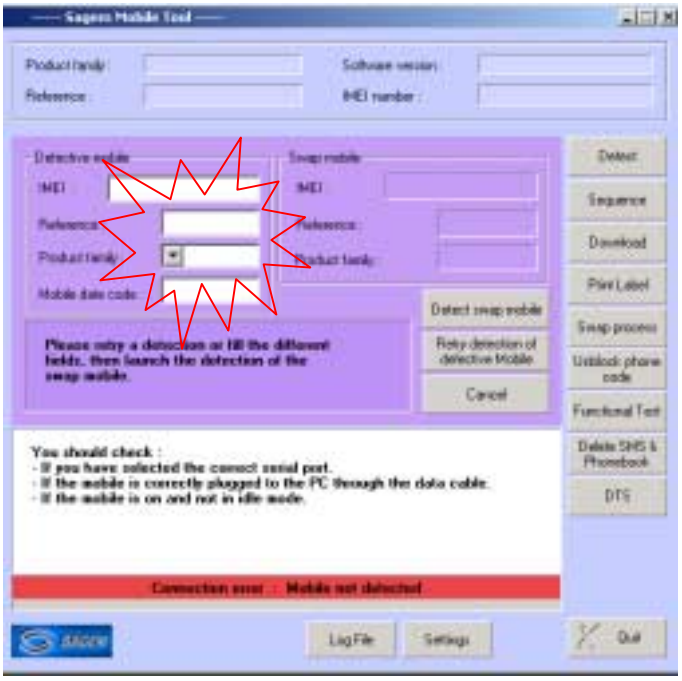
Step 3b

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



Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

Step 4

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

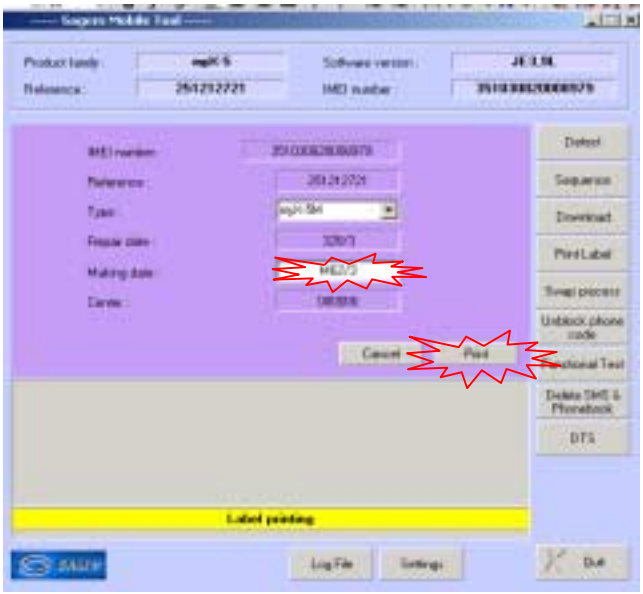
Step 5

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

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

Step 6
The downloading is stats if the mobile needs 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.

Sagem Communication Groupe SAFRAN	CHARGER TEST(AMPHENOL)	TEST SHEET 02
A2005S		1/1

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

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 .
3. Access to the "HOTLINE" menu by pressing on the ∇ key and then the ***** key.
4. Select the APPLICATION menu and the BATTERY STATUS to check that the battery voltage is increasing

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

Test description

This test allows testing the various batteries.

Required tools

CADEX C7000 / C7200 / ASTRATEK

adapters,

Ammeter interface

a voltmeter (minimum impedance 20 kΩ per Volt in DC).

Test procedure

1. Insert battery on ammeter interface
2. Measure the identification resistor between the Z poles :

1. Li-Ion batteries : **120kΩ (tolérance = 117kΩ - 123kΩ,** according to the surrounding temperature**)**
2. Measure the battery voltage between the V poles
   a) If the voltage < 2.5 Volts the battery is defective
   b) if the voltage < 4v ,load the battery for 30 minutes with a travel charger and measure the internal resistance with a CADEX or ASTRATEK batteries testers
   c) 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 (1000 mA)

5 Read the result :If the internal resistance < 300 mOhms the battery is **OK**

>= 300 mOhms the battery is **defective**

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

Access to the "HOTLINE" menu

NOTE: “Hotline” menu is accessible with a valid SIM card

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

The "HOTLINE" menu is accessed by pressing on the ∇ 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 "HOTLINE" menu

- APPLICATION
  - VERSION: reads the installed software version and the IMEI code.
  - BATTERY: gives the value of the battery voltage.
- PROM : Not used.
- SIM LOCK : accesses the "SIM LOCK" menu (password required).
- LCD TEST
  - BLACK : displays the screen in black.
  - WHITE SCREEN
  - RED SCREEN
  - GREEN SCREEN
  - BLUE SCREEN
  - WHITE DRAUGTHBOARD
  - FOR PHOTO : displays functions on the screen to take a photo.
  - VIBRATING DEVICE : tests the vibrating device.

Test
Test 01
Test 02
Test 03
Test 05
Test 06
Procédure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10

Test description

This test tests phones during a call.

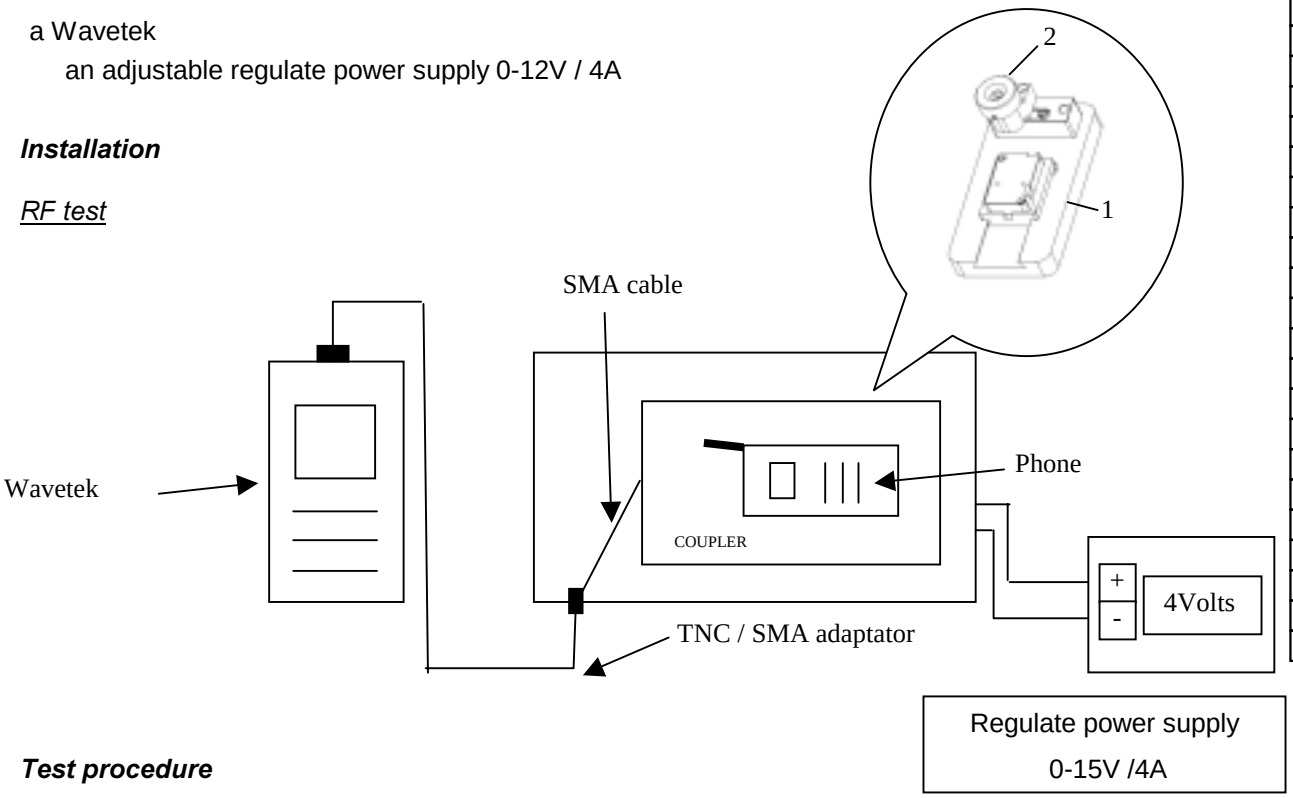
Required tools

a Wavetek

an adjustable regulate power supply 0-12V / 4A

Installation

RF test



Test procedure

1. Position the M 2005 module on the radio interface (1) (provided with a SIM test card)
2. Put a keyboard on the module and press the start key
3. Press and lock the button (2) , press the start key
4. Switch the Wavetek on and press on "AUTOTEST".
5. Choose the corresponding program using the "UP" et "DOWN" arrows.

   Mobile :**XXX**
   Frequency range : **GSM, DCS ,PCS (if used)**,
   Coupling type : **CABLE**.
6. Press "ENTER" and wait until the end of the calibration.
7. Follow the instructions shown on the Wavetek.

CHAPTER 5 - MAINTENANCE PROCEDURES

5.1 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.

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

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 : myC 3-2) 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.);
o During which operation ? In which circumstances ?
o What is the state of the battery and the charger before shipment to the repair centre ?
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:
o 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?
o 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 :

- Gloves

- VISSEUSE DEVISSEUSE A 2005S
  COUPLE SERRAGE 0.10+/-0.01nm

- POSAGE METAL DOME A2005S
  Code : 252539741

LEVEL 0 MAINTENANCE

Sagem Communication Groupe SAFRAN	**REMOVING / REPLACING THE BATTERY**	Proc Sheet 0 01
A 2005 S		1/1

Tools :

- Not applicable

Preliminary operation :

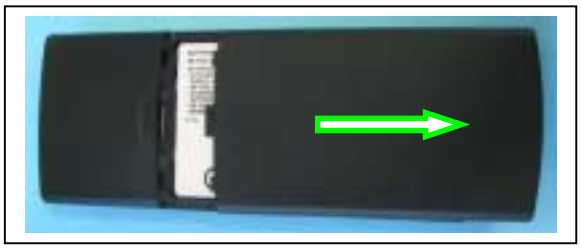
- Switch off the mobile phone

Removal procedure :

1. Remove the battery cover
2. Take out the battery by first extracting the stop pins

Placement procedure :

1. Place the battery by first inserting the upper section .
2. Place the battery cover



LEVEL 1 MAINTENANCE

Tools :

Screw driver

Preliminary operation

Turn the handset upside down

Removal procedure :

1 Remove the battery (Proc Sheet 0 01)

2 Unscrew the 4 screws code **189142947**

3 Lift the back cover

Placement procedure :

1. Replace the cover by engaging the to part first and then , push on the inferior part .

2. Screw the 4 screws**(COUPLE 0.10Nm +/- 0 ,01)**

Further operations :

1. Check the covers are assembled tightly

FOR THIS KIND OF MOBILES , SEE THE PROC SHEET :

Proc Sheet 1 15

ONLY REPLACE THE EQUIPPED PLATE AFTER HAVING REMOVED THE MODULE
NEVER REMOVE THE ANTENNA FROM ITS SUPPORT

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Tools :

- Not applicable

Preliminary operation

1. Remove the back cover (Proc sheet 1 01).
2. Remove the front cover (Proc sheet 1 13).

Removal procedure :

1. Remove the elastomer keypad from the front cover

Placement procedure :

1. Clean the elastomer keypad with compressed air.
2. Place the elastomer keypad in position in its housing

Further operations :

1. Replace the front cover (Proc sheet 1 13).
2. Replace the back cover (Proc sheet 1 01).

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Tools :

- Not applicable

Preliminary operation :

1. Remove the back cover (Proc sheet 1 01).

Removal procedure :

1. Remove the electronic board (Proc Sheet 1 18)
2 Remove the equipped front cover
3 Remove the elastomer keypad (Proc Sheet 1 04).

Placement procedure :

1. On the new front cover position the elastomer keypad in position, ensuring it is free of dust.
2. Place the module on the front cover,engaging firstly the module top,

then press on the module top

Further operations

1. Place the back cover (Proc sheet 1 01).

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Tools :

- A screwdriver
- Gloves

Nota:- This procedure must be performed by a technician provided with gloves, to avoid any risk of pollution.

Preliminary operation :

1. Remove the back cover (proc sheet 1 01).
2. Remove the battery (proc sheet 0 01).
3. Remove the front cover (proc sheet 1 13).

Removal procedure :

1. On the electronic equipped module,unscrew the six attachment screws (proc sheet 1 15)
2. Remove delicately the display , unclipping it

Placement procedure

1. Clip the display on the board
2. Position and tighten the six attachments with couple of **0,21 N m + / - 0,01**
3. Verify that there are no impurities on the display

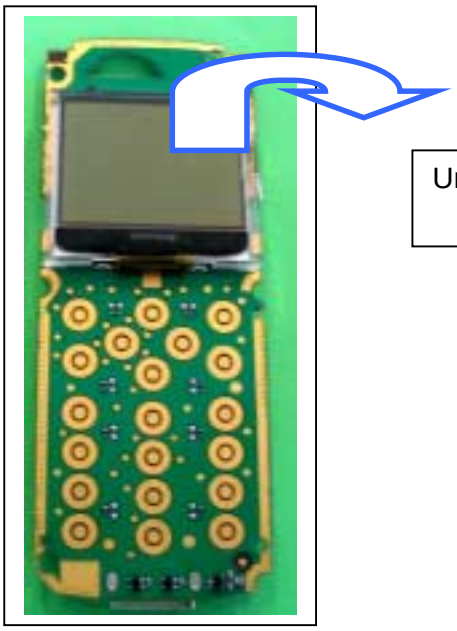
Further operation

1 Replace the front cover (proc sheet 1 13).

2 Replace the battery (proc sheet 0 01).

3 Replace the back cover (proc sheet 1 01).

4 Carry out the radio test (Test sheet 06)



Unclip the display

Tools :

- A screwdriver
- Gloves
- Metal dome tool code **252539741**

Nota:- This procedure must be performed by a technician provided with gloves, to avoid any risk of pollution.

Preliminary operation :

1. Remove the back cover (proc sheet 1 01).
2. Remove the battery (proc sheet 0 01).
3. Remove the front cover (proc sheet 1 13).

Removal procedure :

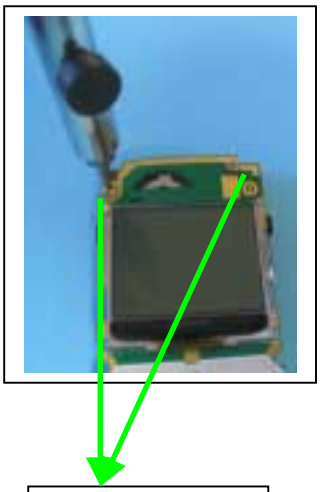
1. On the electronic equipped board unscrew the 2 antenna support attachment screws
2. Remove delicately the electronic board from the upper cover
3. If necessary , change the metal dome with the tool code **252539741**

Placement procedure

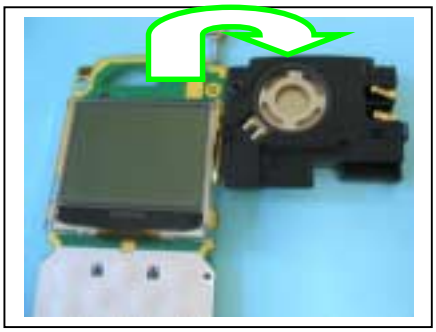
1. Position the electronic board on the upper cover and tighten the 2 antenna support attachments with couple of **0,21 N m + /- 0,01**

Further operation

1. Replace the front cover (proc sheet 1 13).
2. Replace the battery (proc sheet 0 01).
3. Replace the back cover (proc sheet 1 01).
4. Carry out the radio test (Test sheet 06)



COUPLE
0,21Nm + /- 0,01



Remove the antenna support + Vibrating loudspeaker

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

- ***Preliminary operation***

1. Control of the IMEI label integrity
2. Remove the electronic board (Proc sheet 1 18)
3. Control of any oxidation marks (on the electronic board and under the metal dome)

Return procedure :

(a) The 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 electronic boards manipulation , gloves and electrostatic strap must be worn at all times.
(c) The defective 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 OMM).

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**

Placement procedure :

1. Exchange the defective board with a functional board of the same Sagem reference (25M).

Further operations :

1. Place the new electronic board on the assembly plate. .(Proc sheet 1 18)
2. Replace the customer housing
3. Follow stages (see enclosed photos) and the OMM instructions (Test sheet 01)

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Example of electronic boards packaging

Electronic board with metal dome and camera

Humidity absorber

ESD shielding bag

Boards packaging SAGEM -> ARC

ESD shielding bag closed by the product label

Boards packaging ARC -> SAGEM

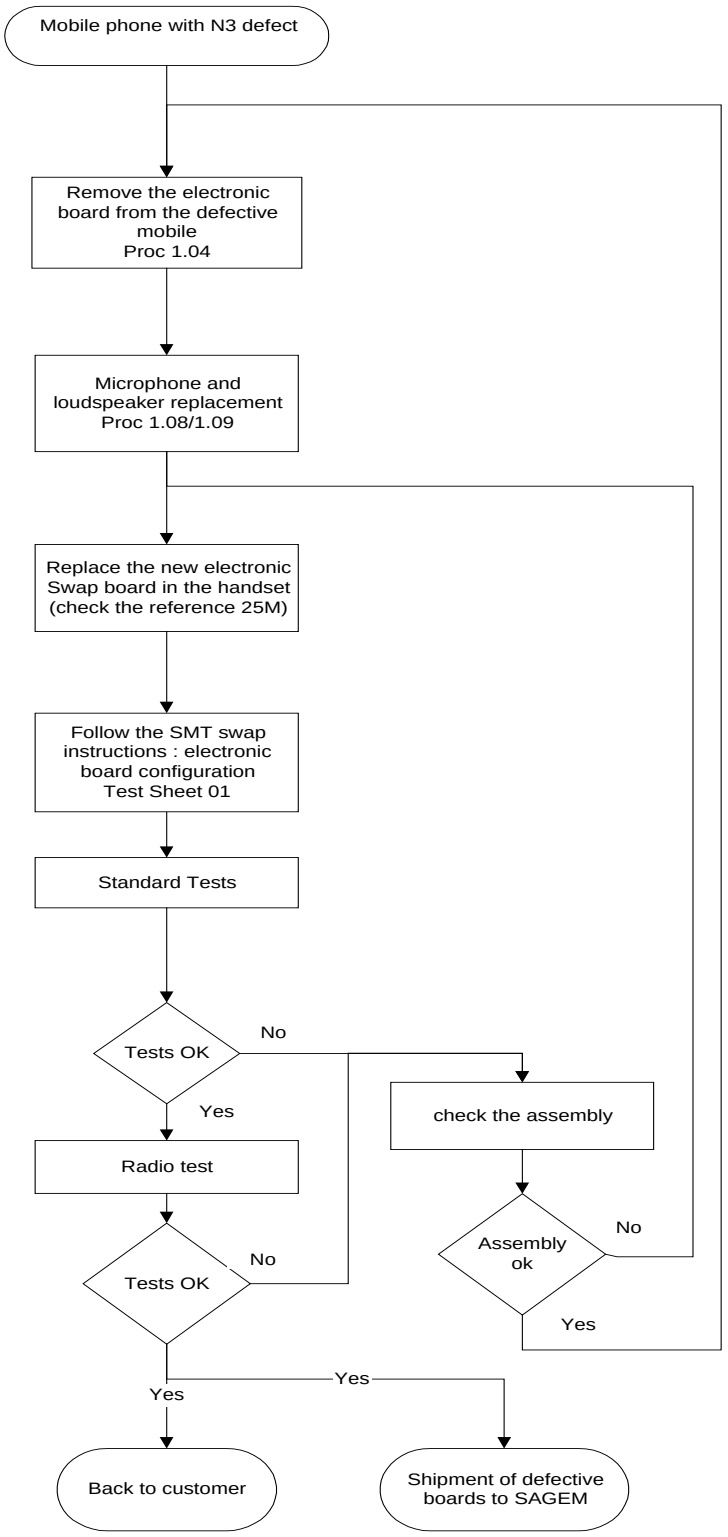
Write the defect code on the label

ESD shielding bag closed by the IMEI label

SAGEM electrostatic shielding box
Reference 20 boards: 27441180-4
Reference 100 boards: 27 511110-6

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Electronic board exchange process



Detection of N3 defect : See the Technical documentation

-check the metal dome . In case of damage or oxidation , replace it.

- Functional tests
- Display test : Hot Line Menu
- Keypad test
- Vibrating device test

- See Technical Documentation (test sheet 06)

- Follow return instructions page 5-37

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Tools :

- A screwdriver
- Gloves

Preliminary operation :

1. Remove the back cover (Proc Sheet 1 01).
2. Remove the battery (Proc Sheet 0 01).
3. Remove the front cover (Proc Sheet 1 13).
4. Unscrew the 2attachment screws on the electronic board
5. Remove the electronic board .(Proc Sheet 1 18)

Removal procedure :

Notice : do not touch the loudspeaker diaphragm

1. Remove the equipped loudspeaker from its housing

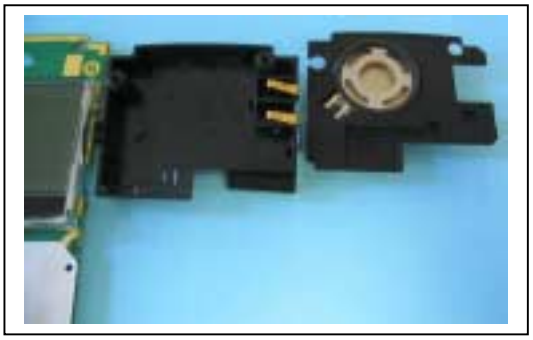
Placement procedure :

1. Replace the loudspeaker

Further operations :

1. Remove the electronic board on the assembly plate.(Proc Sheet 1 18)
2. Position and tighten the 2 attachment screws with couple of **0,21 N.m +/ -0 ,01**
3. Replace the front cover (Proc Sheet 1 13).
4. Replace the battery Proc Sheet 0 01).
5. Replace the back cover (Proc Sheet 1 01).
6. Carry out the radio test (Test Sheet 06).

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06



Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

TOOLS :

-screwdriver

brussels

Removal procedure :

1 . Remove the battery (proc sheet 0-01)

2 . Remove the back cover (proc sheet 1-01)

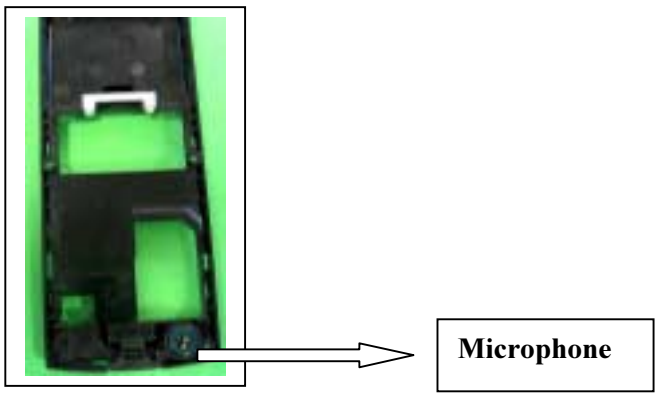
3 . Remove the microphone

Placement procedure :

1. On the back cover ,replace the microphone

Further operations :

1. Replace the back cover (proc sheet 1-01)



LEVEL 3 MAINTENANCE

IMPORTANT

Mobile packaging sent to SAGEM COMMUNICATION GROUPE SAFRAN :

Follow the Proc Sheet 1 20

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 …..)

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

(Mandatory)

This form must attached around the defective mobile or the ESD bag containing the defective board: it must not be put inside the ESD bag.

ARC INFORMATION	
ARC Name ……..…... ARC Adress……...…. ARC Country…….. ARC Phone nr……	
PRODUCT INFORMATION	
Warranty……. Product name…….. Product reference…… IMEI……... Date of purchase……. Incoming date in ARC…… Last swap date (if applicable, <3 month) Defect code found by ARC…… Second NFF Return …...…….	☐ YES ☐ NO _____ _____ * 3 5 1 2 3 1 2 3 1 2 3 0 0 0 0 * …../…../…… …../…../…… …../…../…… ☐ ☐ ☐ YES ☐ NO

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

Code SAGEM	Type de défauts	Type of fault
	PROBLEME D'AFFICHAGE	**DISPLAY PROBLEM**
A1	PAS D'AFFICHAGE - LCD INTERNE DEFECTUEUX	NO POWER UP - DEFECTIVE INTERNAL LCD
A3	BLOCAGE DE L AFFICHAGE LCD INTERNE	FREEZES UP INTERNAL LCD
A5	AFFICHEUR CASSE LCD INTERNE	BROKEN INTERNAL LCD
A6	LIGNE, DIGIT OU PIXEL MANQUANT, CONTRASTE, COULEUR LCD INTERNE	MISSING LINE, DIGIT or PIXEL, CONTRAST, COLOR INTERNAL LCD
A7	PB RETROECLAIRAGE LCD INTERNE	BACKLIGHTS PROBLEM INTERNAL LCD
A11	PAS D AFFICHAGE LCD EXTERNE DEFECTUEUX	NO POWER UP - DEFECTIVE EXTERNAL LCD
A13	BLOCAGE DE L AFFICHAGE LCD EXTERNE	FREEZES UP EXTERNAL LCD
A14	AFFICHEUR CASSE LCD EXTERNE	BROKEN EXTERNAL
A15	LIGNE, DIGIT OU PIXEL MANQUANT, CONTRASTE, COULEUR LCD EXTERNE	MISSING LINE, DIGIT or PIXEL, CONTRAST, COLOR EXTERNAL LCD
A16	PB RETROECLAIRAGE LCD EXTERNE	BACKLIGHTS PROBLEM EXTERNAL LCD
	PROBLEME D'ANTENNE	**ANTENNA PROBLEM**
A10	ANTENNE CASSEE / ABSENTE	BROKEN / MISSING ANTENNA
	PROBLEME D'ALIMENTATION / CHARGEUR	**POWER SUPPLY / CHARGING PROBLEM**
B1	CONTACT BATTERIE DU MOBILE DEFECTUEUX	DEFECTIVE MOBILE BATTERY CONTACT
B2	CONNECTEUR DE CHARGE DU MOBILE DEFECTUEUX	DEFECTIVE MOBILE CHARGER CONNECTOR
B3	ALIMENTATION CARTE DEFECTUEUSE	DEFECTIVE POWER SUPPLY OF THE BOARD
B4	AFFICHAGE CHARGE DEFECTUEUX	DEFECTIVE CHARGE ICON DISPLAY
B5	CONSOMMATION MODE ETEINT	CURRENT CONSUMPTION WITH PHONE OFF
B7	PROBLEME D'AUTONOMIE	INSUFFICIENT BATTERY DURATION
B8	BATTERIE DEFECTUEUSE	ELECTRICALLY DEFECTIVE BATTERY
B9	TENUE MECANIQUE BATTERIE	MECHANICAL LOCK PROBLEM ON BATTERY
B10	BATTERIE CASSEE	BROKEN BATTERY
B11	CHARGEUR DEFECTUEUX	DEFECTIVE CHARGER
B12	CHARGEUR CASSE	BROKEN CHARGER
B13	COUPURE INTERMITTENTE AVEC REDEMARRAGE	INTERMITTENT SWITCH OFF WITH REBOOT
B14	COUPURE INTERMITTENTE SANS REDEMARRAGE	INTERMITTENT SWITCH OFF WITHOUT REBOOT
	PROBLEME DE CLAVIER	**KEYBOARD PROBLEM**
C1	CLAVIER INOPERANT CORPS PRINCIPAL	NOT FUNCTIONING BODY KEYBOARD
C2	PROBLEME TOUCHE LATERALE	SIDE KEY PROBLEM
C3	CLAVIER INOPERANT FLAP/SLIDE	NOT FUNCTIONING FLIP OR SLIDE KEYBOARD
	MESSAGE D'ERREUR	**ERROR MESSAGE**
D1	SIM ABSENTE	SIM MISSING
D2	AUTRES MESSAGES	OTHER MESSAGES
D4	MOBILE NON REGLE	UNTUNED MOBILE
D6	SIM VERROU	SIM VERROU
D7	CODE POSTE	POST CODE BLOCKED
D8	RETOUR SAV	SAV RETURN
	PROBLEME AUDIO	**AUDIO PROBLEM**
E1	HP DEFECTUEUX	DEFECTIVE LOUDSPEAKER (hails)
E3	MICRO DEFECTUEUX	DEFECTIVE MICROPHONE
E5	PROBLEME DE VIBREUR	VIBRATING DEVICE PROBLEM
E6	CONNECTEUR AUDIO DEFECTUEUX	DEFECTIVE AUDIO CONNECTOR
	PROBLEME DE COMMUNICATION	**COMMUNICATION PROBLEM**
F1	PAS DE LOCALISATION RESEAU	NO NETWORK RETRIEVAL
F2	COUPURE DE COMMUNICATION	INTERMITTENT CALLS DROP
F4	TEST RADIO NON OK	TEST RADIO NO OK
F5	ECHEC APPEL SORTANT	OUTGOING CALL FAILURE
F6	ECHEC APPEL ENTRANT	INCOMING CALL FAILURE
F7	PERTE TEMPORAIRE DE RESEAU	NETWORK TEMPORARY DROP
	PROBLEME COSMETIQUE / DEFAUT VISUEL	**COSMETIC PROBLEM**
G1	VITRE CASSEE OU ABIMEE CORPS PRINCIPAL	BROKEN OR DAMAGED BODY GLASS
G2	COQUE CASSEE OU ABIMEE	BROKEN OR DAMAGED COVER
G3	FLAP CASSE OU ABIME	BROKEN OR DAMAGED FLIP
G5	CLAVIER CASSE OU ABIME CORPS PRINCIPAL	BROKEN OR DAMAGED BODY KEYBOARD
G6	BOUTON VERROU DEFECTUEUX	DEFECTIVE LOCK BUTTON
G7	VITRE CASSEE OU ABIMEE FLAP/SLIDE	BROKEN OR DAMAGED GLASS FLIP/SLIDE
G8	CLAVIER CASSE OU ABIME FLAP/SLIDE	BROKEN OR DAMAGED FLIP/SLIDE KEYBOARD
	AUTRES PROBLEMES	**OTHER PROBLEM**
H1	KIT ACCESSOIRES HS (KIT PIETON CLASSIQUE, KITS BLUETOOTH...)	BROKEN OR DAMAGED ACCESSORY (PEDESTRIAN HEADSET, BLUETOOTH KITS...)
H2	FONCTION FM (MOBILE) OU MP3	FM OR MP3 FUNCTION (Mobile)
I1	TRACE D OXYDATION	OXYDATION MARKS
I3	PAS DE DEFAUT CONSTATE	NO FAULT FOUND
I10	PAS DE DEFAUT CONSTATE SECOND RETOUR (sauf pendant la boucle courte)	NO FAULT FOUND SECOND RETURN (**excepted during short loop process**)
I5	MANQUE FONCTION DANS MENU	LACK FUNCTION IN THE MENU
I6	CONNECTEUR SIM DEFECTUEUX	DEFECTIVE SIM CONNECTOR
I7	DYSFONCTIONNEMENT D'UNE FONCTION DU MENU	MALFUNCTION OF THE MENU
I8	RECONFIGURATION DU MOBILE	MOBILE RETROFIT
I9	BLACK LISTE	BLACK LIST
	PROBLEME MULTIMEDIA	**MULTIMEDIA PROBLEM**
K2	FONCTION VIDEO	VIDEO FUNCTION
K4	FONCTION WAP	WAP FUNCTION
K5	FONCTION GPRS	GPRS FUNCTION
K6	FONCTION SMS, EMS, MMS.	SMS, EMS, MMS FUNCTION
K7	NE COMMUNIQUE PAS AVEC UN PC	NO COMMUNICATION WITH A PC
K8	NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM	NO COMMUNICATION WITH A POCKET PC or PALM
K9	LIAISON DATA (MESSAGE " AUCUNE PORTEUSE DETECTEE")	DATA (MESSAGE "NO CARRIER DETECTED")
K10	TELECHARGEMENT JEUX	DOWNLOADING GAME
K11	TELECHARGEMENT IMAGE / SON / ECONOMISEUR D'ECRAN	DOWNLOADING PICTURE / RINGTONE / SCREEN SAVER
K12	PB DATA SANS FIL (IRDA, BLUETOOTH..)	WIRELESS DATA FUNCTION PB (IRDA, BLUETOOTH..)
K13	PB CONNECTIQUE SLOT I/O (SD/MMC)	SLOT I/O PB (SD/MMC)

Sagem Communication Groupe SAFRAN	**RETURN TO THE CLIENT**	Proc Sheet 3 02
A 2005 S		1/1

Cachet du Vendeur/Dealer's Stamp :	***Informations Client /Information :***
	Nom/Name :
	Rue /Street :
	Ville / City :
	Code postal /Postcode :
	Pays/Country
	Telephone /Phone :
Nom du produit/product :	N° Série/Sérial n° :
Date d'achat/Date of purchase	N° IMEI :
Garantie/Warranty :	***Hors garantie/Out of warranty :***
Garantie standard/Standard warranty :	Garantie expirée /Expired warranty :
Déjà réparé/préviously repaired :	Mauvaise utilisation / Missuse

Code SAGEM			Type de défaut	Kind of fault
A0			AFFICHAGE DEFECTUEUX	DISPLAY MALFUNCTION
A10			ANTENNE CASSEE / ABSENTE	ANTENNA BROKEN / MISSING
B0			ALIMENTATION/CHARGE	POWER SUPPLY / NO CHARGE
B7			PROBLEME D'AUTONOMIE	AUTONOMY
B8			BATTERIE DEFECTUEUSE	BROKENBATTERY
B11			CHARGEUR DEFECTUEUX	CHARGER MALFUNCTION
C0			PROBLEME CLAVIER	KEYBOARD MALFUNCTION
C2			PROBLEME TOUCHE LATERALE	LATERAL TOUCH PROBLEM
D0			MESSAGE D'ERREUR	ERROR MESSAGE
D1			SIM ABSENTE	SIM MISSING
D7			CODE POSTE	POST CODE BLOCKED
E0			PROBLEME AUDIO	AUDIO PROBLEM
E3			MICRO DEFECTUEUX	MICROPHONE MALFUNCTION
E5			PROBLEME DE VIBREUR	VIBRATING DEVICE MALFUNCTION
F0			PROBLEME DE COMMUNICATION	COMMUNICATION MALFUNCTION
G1			VITRE CASSEE OU ABIMEE	BROCKEN GLASS
G2			COQUE CASSEE OU ABIMEE	BROCKEN COVER
G3			FLAP CASSE OU ABIME	BROKEN FLIP
G5			CLAVIER CASSE OU ABIME	BROCKEN KEYBOARD
G6			BOUTON VERROU DEFECTUEUX	DEFECTIVE LOCK BUTTON
K2			FONCTION VIDEO	VIDEO FUNCTION
K3			FONCTION INFRAROUGE (IRDA)	INFRARED FUNCTION (IRDA)
K4			FONCTION WAP	WAP FUNCTION
K5			FONCTION GPRS	GPRS FUNCTION
K6			FONCTION SMS, EMS, MMS.	SMS, EMS, MMS FUNCTION
K7			NE COMMUNIQUE PAS AVEC UN PC	NO COMMUNICATION WITH A PC
K8			NE COMMUNIQUE PAS AVEC UN POCKET PC OU PALM	NO COMMUNICATION WITH A POCKET PC or PALM
K9			LIAISON DATA (MESSAGE "AUCUNE PORTEUSE DETECTEE")	DATA (MESSAGE "NO CARRIER DETECTED")
K10			TELECHARGEMENT JEUX	DOWNLOADING GAME
K11			TELECHARGEMENT IMAGE / SON / ECONOMISEUR D'ECRAN	DOWNLOADING PICTURE / RINGTONE / SCREEN SAVE
H1			KIT ACCESSOIRES HS	BROCKEN ACCESSORIES
H2			FONCTION FM (MOBILE)	FM FUNCTION
H3			FONCTION MONETIQUE	MONETIC FUNCTION
I5			MANQUE FONCTION DANS MENU	LACK FUNCTION IN THE MENU
I7			DYSFONCTIONNEMENT D'UNE FONCTION DU MENU	MALFUNCTION OF THE MENU
I8			RECONFIGURATION DU MOBILE	MOBILE RETROFIT
I0			AUTRES DEFAUTS A PRESICER	OTHERS / TO BE PRECISED

OUT OF WARRANTY INTERVENTION

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

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 falls under the Repair Centre responsibility.

- Replacement procedure of DATA/ AUDIO/ CHARGE connector

1-Disassemble the handset

2-Replace the defective connector (see below) **Ref 18 598 906-8**

3 - Replace the electronic board in the mobile phone (Proc Sheet 1 18)

4 -To test the replacement of the connector, it is necessary to:

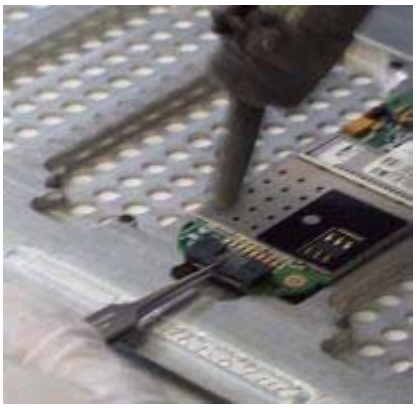
a) Connect the mobile phone on SMT maintenance software (test Sheet 01)

b) Make real calls with a pedestrian handfree Kit **Reference: 18 844 808 0**

c) Test the charge of mobile phone

5 - Standard test after repair

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06



- 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

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.

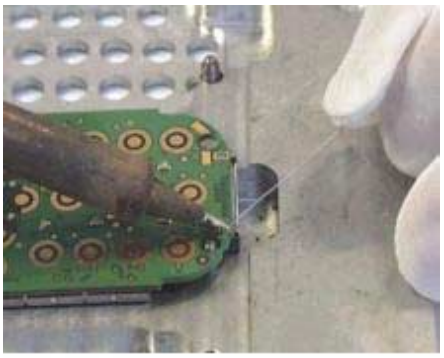
Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

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 and that they cover well the pins

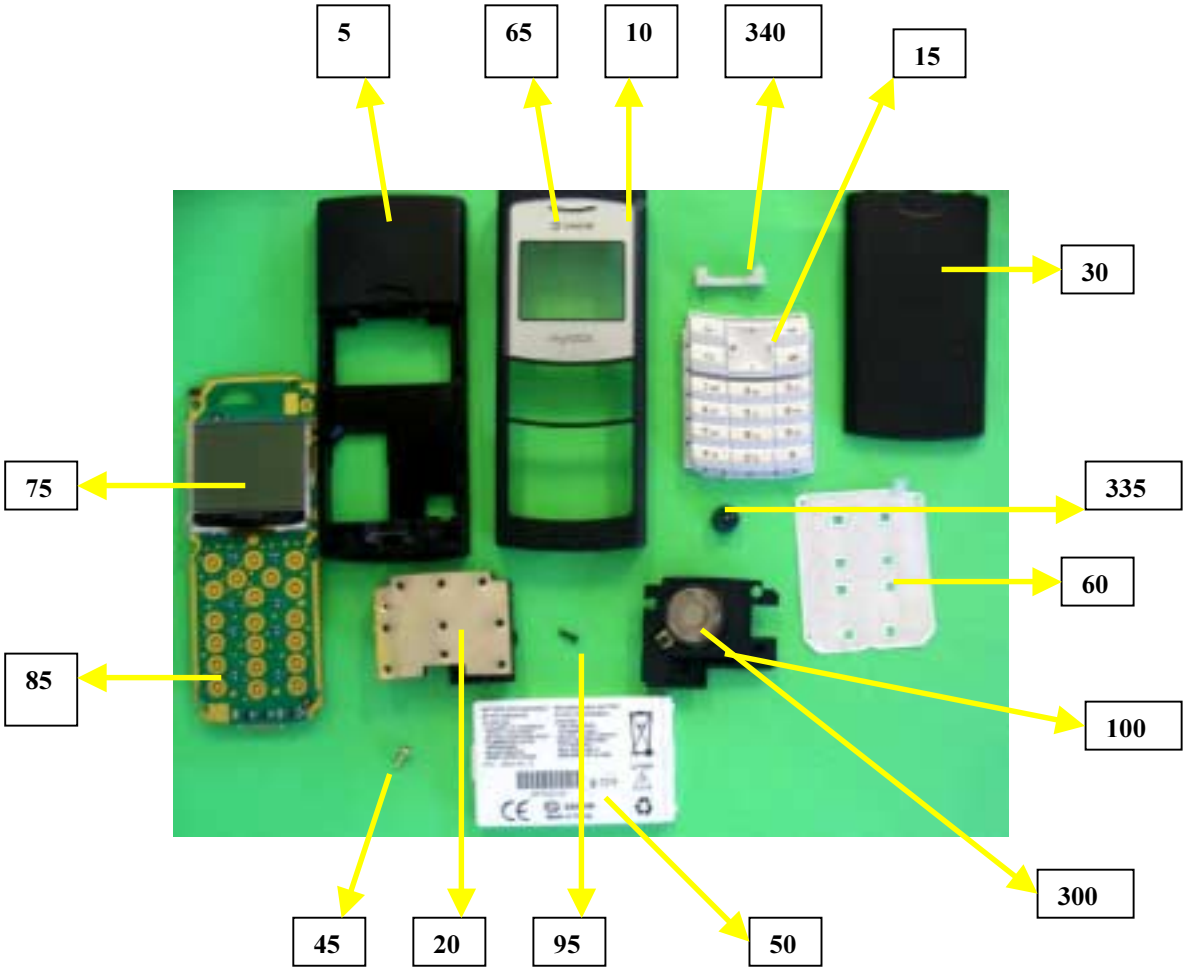


At last, solder the 4 pins crossing the

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06

REPERE	QTE	DESIGNATION
5	1	BACK COVER
10	1	UPPER COVER
15	1	KEYPAD
20	1	ANTENNA
30	1	BATTERY COVER
45	2	LOUDSPEAKER SCREW
60	1	METAL DOME
65	1	WINDOW
50	1	BATTERY
75	1	LCD
85	1	ELECTRONIC BOARD
95	4	SCREW
100	1	AUDIO RUBBER
300	1	VIBRATING LOUDSPEAKER
335	1	MICROPHONE
340	1	BATTERY RUBBER

Procedure
Proc 0 01
Proc 1 01
Proc 1 02
Proc 1 04
Proc 1 13
Proc 1 16
Proc 1 18
Proc 1 20
Proc 1 35
Proc 1 38
Proc 3 01
Proc 3 02
Proc 4 01
Proc 8 1
Symptom
Symp 01
Symp 02
Symp 03
Symp 04
Symp 05
Symp 06
Symp 07
Symp 08
Symp 10
Test
Test 01
Test 02
Test 03
Test 05
Test 06



CHAPTER 6 - ACCESSORIES

6.1 CIGAR LIGHTER CHARGERAC1

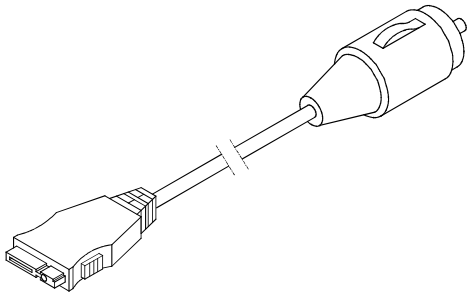
6.1.1 Description

This charger is for use in a car (or truck) only. The adapter is fitted with a cigar lighter type connector. AC1 is used to charge a mobile on a cigar lighter connector.

6.1.2 Caractéristiques

Packaging :
Blister

Comment :
Input voltage : 10.8 to 30 V
No load voltage : 6.5 V
Output current : 500 mA



6.2 CAR CRADLE

6.2.1 Description

Car cradle compatible with AC1 or antenna adapter.

6.2.2 Caractéristiques

Packaging :
BLISTER

Comment :
Mechanical craddle

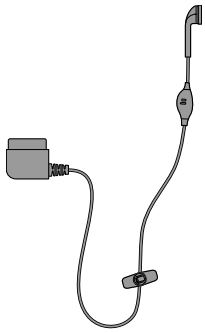
6.3 PEDESTRIAN HANDSFREE KIT

6.3.1 Description

Ear support with microphone on the cable for handsfree conversation

6.3.2 Caractéristiques

Comment :
Length: 1.25 m Dist. micro/loudspeaker: 25 cm



6.4 FULL DUPLEX CAR HANDSFREE KIT

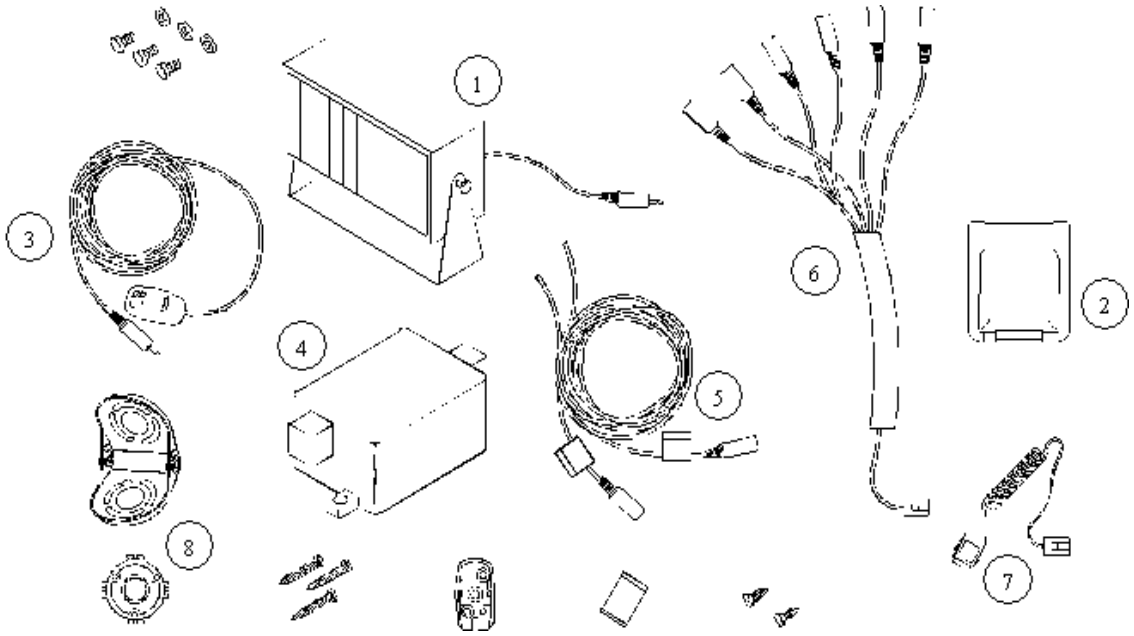
6.4.1 Description

Rapido Kit : "compact" kit on cigar lighter,
Kit K3 : "confort" kit for integration in car with phone equipment.
Rapido Kit : "compact" kit on cigar lighter,
Kit K3 : "confort" kit for integration in car with phone equipment

6.4.2 Caractéristiques

Packaging :
Box

Comment :
No antenna



1 : Haut-parleur.

2 : Support du mobile.

3 : Microphone.

4 : Boîtier d'interconnexion.

5 : Câble d'alimentation.

6 : Câble de connexion micro, haut-parleur, voiture ⇔ boîtier d'interconnexion.

7 : Câble de connexion mobile ⇔ boîtier d'interconnexion.

8 : Kit de fixation.

CHAPTER 7 - TECHNICAL INFORMATION BULLETIN

7.1 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.

7.2 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 8 - ILLUSTRATED PARTS CATALOG

8-1 SPARE PARTS A2005S

ASSEMBLY	Quantity	Designation
5	1	Lower cover
10	1	Upper cover
15	1	Keypad
20	1	Antenna
30	1	Battery cover
45	2	Antenna Screw
50	1	Battery
60	1	Spacer & metal dome
65	1	LCD pane
75	1	LCD
85	1	Main board
95	4	Body Screw
100	1	Microphone rubber
300	1	Vibrating speaker


SAGEM
my100X
Li-ion
SAGEM
Made in China

Index

CHAPTER 3 - SYMPTOMS

CHAPTER 4 - TESTS AND CHECKS