



## Hermes Service Manual

# HTC Proprietary Confidential Treatment Requested

Rev. A03

Aug,4,2006

HTC Corp.

**Engineering Mobility** 



hTC smart mobility		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.	
		High Tech Computer, Corp.	Issued Date	2006/07/06	A03	
			Revised Date	2006/8/7	AUS	
Doc. Title		Hermes Service Manual	Page	2 of 81		

## REVISION CONTROL TABLE

Rev	Date	Contents	Dept.	Revised	App Dept	Stage/Per
AX01	2006/5/8	First Draft	PSE	Felix Lu	TSC	DVT3
AX02	2006/6/8	Update Disassembly/Assembly     Update test plan     Update generic photo for SPL     Update battery and leakage     current measurement procedure	PSE	Felix Lu	TSC	PVT
AX03	2006/6/15	<ol> <li>Add gap inspection</li> <li>Update board level repair</li> </ol>	PSE	Felix Lu	TSC	PVT
A01	2006/7/6	First Release	PSE	Felix Lu	TSC	MV
A02	2006/7/27	<ol> <li>Revise assembly/disassembly process.</li> <li>Revise generic spare part list and Photos.</li> <li>Update SPL of board level 2.5.</li> </ol>	PSE	Felix Lu	TSC	MP
A03	2006/8/7	Add mylar on housing of LCM in page 16.	PSE	Felix Lu	TSC	MP



hTC smart mobility		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
			Issued Date 2006/07/06	2006/07/06	402
			Revised Date	2006/8/7	A03
Doc. Title		Hermes Service Manual	Page	3 of 81	

#### **Table of Contents**

#### INTRODUCTION

1.1 Product Specification

#### **EXPLODED DIAGRAM**

#### DEVICE ASSEMBLING AND DISASSEMBLING PROCEDURE

- 1.2 Disassembling procedure
- 1.3 Assembling procedure

#### **DIAGNOSTICS PROGRAM AND WINCE TEST ITEM**

- 1.4 Tools and equipment requirement
- 1.5 How to enter Diagnostic mode and Boot-loader mode
- 1.6 Test Plan and test procedure

#### Main Battery Re-Certify Procedure

- 1.7 Re-certify Flow Chart
- 1.8 Test Procedure

#### **LEAKAGE CURRENT MEASUREMENT**

#### **COSMETIC INSPECTION CRITERIA**

- 1.9 Definition of Cosmetic Standard
- 1.10 Visual Inspection Requirements
- 1.11 Definition of Inspection Defects and Areas
- 1.12 Cosmetic Criteria Table

#### OS. GSM ROM IMAGE RE-FLASH PROCEDURE

- 1.13 OS upgrade thru RUU
- 1.14 OS upgrade thru micro SD card

#### TROUBLE SHOOTING GUIDE

GENERIC SPARE PART LIST AND PHOTOS (FOR REFERENCE ONLY)

#### **APPENDIX**

GENERIC LABELING PLAN
RF ANTENNA TEST SPECIFICATION
BOARD LEVEL 2.5 REPAIRS



hTC smart mobility		宏達國際電子股份有限公司	Doc. No. <b>DOC-00018457</b>	DOC-00018457	REV.	
		<b>High Tech Computer, Corp.</b>	Issued Date	2006/07/06	A03	
			Revised Date	2006/8/7	AUS	
Doc. Title		Hermes Service Manual	Page	4 of 81		

#### INTRODUCTION

This manual provides the technical information to support the service activities of the PPCP. This document contains highly confidential information, so any or all of this document should not be revealed to any third party.

#### 1.1 Product Specification/Feature

- Platform
  - Dual-Mode PDA form factor
  - OS: Microsoft Windows Mobile 5.0-Phone Edition
- Dimension
  - 112.5mm (L) x 58mm (W) x 21.95mm (T), 176g with battery
- Processor/Chipset
  - CPU + Base band: Samsung with 400MHz + Qualcomm 6275
- Memory
  - Flash ROM: 128MB (for program and users' storage)
  - SDRAM: 64MB DDR SDRAM
- LCD Module
  - Main LCD Module
    - 2.8", 240x320 dots resolution with 65K color TFT LCD
    - 64K-color TFT Transflective LCD with white LED backlight
    - Sensitive Touch Screen
- WCDMA/GSM/EDGE Function
  - Dual mode: HSDPA/UMTS and GSM//GPRS/EDGE
  - HSDPA/UMTS:
    - Tri-band (2100MHz and 850MHz/1900MHz)
  - GSM/GPRS/EDGE:
    - Quad-band (850/900/1800/1900MHz)
  - Auto Band Switching
  - Global roaming
  - Handover and cell selection between GSM/EDGE and WCDMA
  - Audio codec: AMR, EFR, FR, HR
  - SMS (MO, MT), concatenated SMS (640 characters)
  - Supplement services
    - Call holding, waiting, and forwarding.
    - Call barring.
    - CLI (Call Line Identity)
    - Display own number
    - Network selection
    - Cell broadcast
    - Multi party capability conference call
    - Spool icon
    - Network lock
    - Phase 2+ unstructured supplementary service data
  - EDGE Function
    - EGPRS Class B
    - Multi-slot Standard Class 10
    - PBCCH
  - USIM/SIM



000	—————————————————————————————————————	Doc. No.	DOC-00018457	REV.	
L	大陸国際電子版の 日内 ロー・ High Tech Computer, Corp.	Issued Date	2006/07/06	A03	
Smart mot	miry	Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Service Manual	Page	5 of 81		

- 1.8V/3V of UICC
- USIM application
- SIM application tool kit
- Over the Air (OTA) programming
- FDN (Fixed Dialing Number)
- ADN (Abbreviated Dialing Number
- Security PIN 1&2 control
- Keyboard/Button
  - Keyboard
    - Qwerty keyboard with 2 additional soft keys
    - Ambient sensor for power saving on Qwerty
  - Button
    - Power button, Five-way navigation button, Send/Hands-free button, End button, Ok button
    - Comm. Manager, Camera capture button
    - 360 degree jog wheel
    - Voice dial/Voice record button
    - 2 soft keys, Video telephony button
    - Start button
    - 2 AP buttons (Messaging and Pocket IE)

#### Notification

- One bi-color LED for UMTS/GSM standby, UMTS/GSM message, UMTS/GSM network status, And charging status
- Two respective (blue and green) LEDs for Bluetooth/Wi-Fi notification
- Notification by sound, Message, Vibration on the display
- Audio
  - Build-in Microphone
  - Receiver
  - Loud speaker for Hands-free supported
  - Full duplex
  - WAV/WMA/AMR/AAC/MP3 codec
  - 16 bits with 8KHz, 11KHz, 22KHz, 44.1KHz

#### Camera

- Main camera
  - Color CMOS 2 mega-pixel macro function camera
- Second camera
  - Color CMOS CIF camera
  - Video/Flash light
- Preview mirror

#### Bluetooth

- V2.0 supported without EDR
- Class 2 transmit power
- Co-exist with WLAN
- Supported profiles:
  - Generic Access Profile
  - Serial Port Profile
  - Headset Profile
  - Object Push Profile
  - DUN Profile
  - Heads-free Profile
  - Generic Object Exchange Profile



000		)有限公司	Doc. No.	DOC-00018457	REV.
, O, U	High Tech Compute		Issued Date	2006/07/06	A03
Smart mot	ility	•	Revised Date	2006/8/7	AUS
Doc. Title	Hermes Service I	/lanual	Page	6 of 81	

- Advanced Audio Distribution Profile (A2DP)
- Audio/Video Remote Control Profile (AVRCP)
- SIM Access Profile
- HID Profile
- Infrared IrDA SIR
- WLAN
  - IEEE 802.11b/g supported
  - Internal WLAN antenna
- Interface
  - Infrared IrDA SIR
  - 3V USIM/SIM card
  - 11-pin min-USB (USB 1.1)/audio jack in one
  - Micro SD
- Power
  - Removable rechargeable Lithium Polymer battery
  - Capacity: 1300mAh
  - Charging time: 3 hours
  - GSM Talk-Time: 4~5 hours
  - UMTS Talk-Time: 2~4 hours
  - GSM Standby Time: 200+ hours
  - UMTS Standby Time: 180~250 hours
  - AC Adapter.
    - AC input rating: 100-240Vac, 50-60 Hz.
    - DC output: 5V / 1A
- Hanger Hole
  - Stylish hanger on the cover to wear phone with neck strap as pendant or to attach various phone hangers.
  - Lanyard support.
- Accessories
  - Inbox
    - AC adapter with mini-USB power plug
    - Sync. Cable (mini-USB)
    - Battery (rechargeable and replaceable)
    - Stylus
    - Carrying case
    - Stereo-wired headset with microphone
  - Option
    - Car adapter.
    - Cradle
    - 11-pin to 3.5 connector
    - TTY adapter
    - Battery Charger
- Microsoft Windows Mobile 5.0 Applications
  - Pocket Outlook: Calendar, Contacts, Messaging, Tasks, and Voice Notes
  - Push Mail
  - Internet Explorer Mobile
  - Office Mobile: Word, Excel & PowerPoint Mobile
  - Windows Media Player 10 Mobile
  - Pictures & Videos



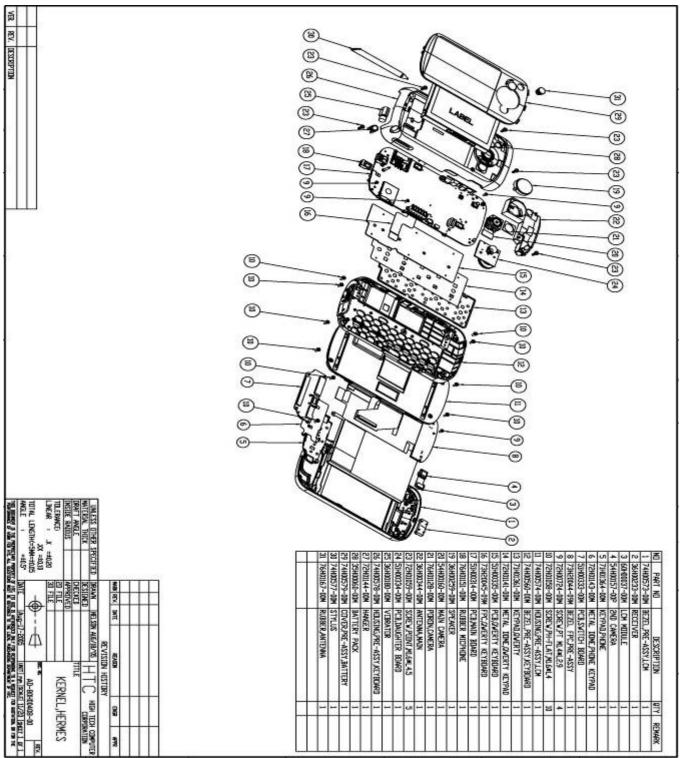
		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
			Issued Date	2006/07/06	400
			Revised Date	2006/8/7	A03
Doc. Title		Hermes Service Manual	Page	7 of 81	

- ActiveSync Client
- Pocket MSN
- Calculator
- Value Added Application
  - Camera/Camcorder
  - Picture Enhancement for Pictures & Videos
  - Polyphonic MIDI Ringtone
  - Audio/Video enhancement for WMP
  - 3G-324M Video Telephony
  - ZIP
  - Smart Dialing
  - MMS Client: MMS 1.1 supported
  - Java virtual machine (J2ME, CLDC 1.1, MIDP 2.0)
  - Voice Dial & Command
  - Document Viewer PDF
  - OMA DRM 1.0 supported
  - SIM Manager
  - Comm. Manager
  - Wireless Modem
  - STK
  - TTY for US Market
- Regulatory
  - PTCRB
  - R&TTE
  - FCC
  - BQB (Bluetooth Qualification Body) certification
  - Windows Mobile Logo (NTSL)
  - USB certification



hTC smart mobility		<b>公達國際電子股份有限公司</b>	Doc. No.	DOC-00018457	REV.
		ligh Tech Computer, Corp.	Issued Date 2006/07/06	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	8 of 81	·

#### **EXPLODED DIAGRAM**





000		Doc. No.	DOC-00018457	REV.	
, O	High Tech Computer, Corp.	Issued Date	2006/07/06	A03	
Smart mor	inty	Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Service Manual	Page	9 of 81		

### DEVICE ASSEMBLING AND DISASSEMBLING PROCEDURE

Disassembly procedure



TOOLS NEEDED FOR ASSEMBLING AND DISASSEMBLING.

- 1. LENS CLEANING TISSUE
- 2. FLAT PLASTIC STICK
- 3. TOREX SCREW DRIVER T6X40
- 4. PHILIP SCREW DRIVER 000X40
- 5. TWEEZERS.(SUGGEST TO USE PLASTIC MADE)





- REMOVE ANTENNA RUBBER.
   EJECT THE STYLUS.
   EJECT THE MICRO SD CARD IF AVAILABLE.



PUSH BATTTERY LATCH TO THE RIGHT TO RELEASE BATTERY COVER.





Doc. Title

## 宏達國際電子股份有限公司 High Tech Computer, Corp.

Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	10 of 81	

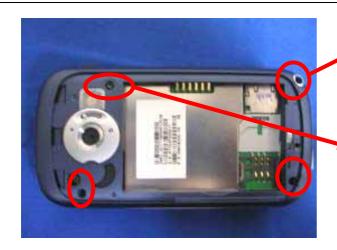
Hermes Service Manual



#### REMOVE THE BATTERY

Warning: To reduce risk of fire or burns, do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water. Replace only with specified batteries. Recycle or dispose of used batteries properly





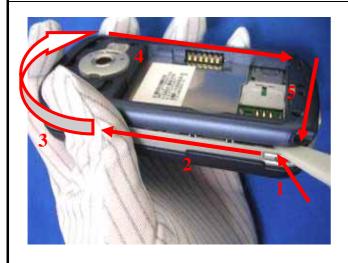
REMOVE FOUR SCREWS ON HOUSING AS WELL AS HINGER.

✓ SCREW: 72H01059-00M (Q'TY: 4).



WARRANTY SEAL:77H00314-00M (Q'TY:1)

[NOTE] PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW
DRIVER TO 1.3+- 0.1KGF-CM



- 1. USE PLASTIC STICK INTO THE GAP BETWEEN HOUSING OF KEYBOARD AND BEZEL OF KEYBOARD FROM THE CORNER.
- 2. RELEASE THE HOOKS AROUND THE SIDES OF UNIT TO REMOVE THE HOUSING OF KEYBOARD.

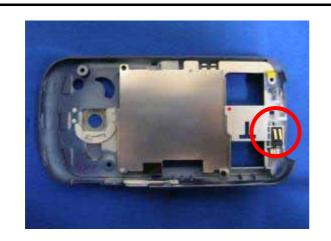




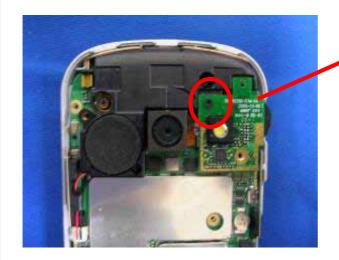
Doc. No.	DOC-00018457	REV.	
Issued Date	2006/07/06	A03	
Revised Date	2006/8/7	AUS	
_			

Doc. Title Hermes Service Manual

Page 11 of 81



REMOVE THE VIBRATOR.





RELEASE ONE SCREW TO DISCONNECT FLASH LIGHT MODULE.

SCREW: 72H00724-00M (Q'TY: 1).

#### [Note]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO <u>0.4+-0.05KGF-CM</u>





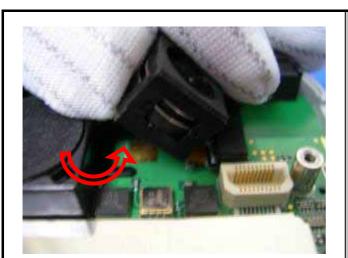
REMOVE RUBBER CAP FROM FLASH LIGHT MODULE.





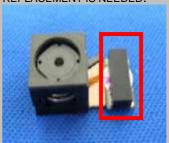
Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	12 of 81	

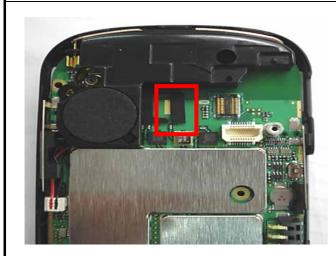
Doc. Title Hermes Service Manual



#### DISCONNECT MAIN CAMERA MODULE.

PLEASE STICK THE RUBBER ON CAMERA IF CAMERA REPLACEMENT IS NEEDED.

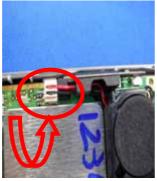




#### REMOVE CAMERA RUBBER SUPPORT.

✓ RUBBER: 76H01414-00M (Q'TY: 1)





RELEASE ONE SCREW AND THEN DISCONNECT SPEAKER CONNECTOR FROM MAIN BOARD.

✓ SCREW: 72H01059-00M (Q'TY: 1)

#### [NOTE]

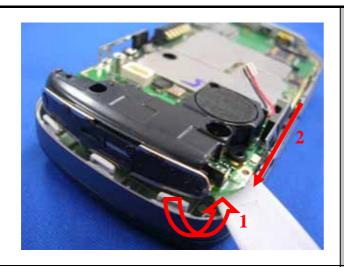
PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM



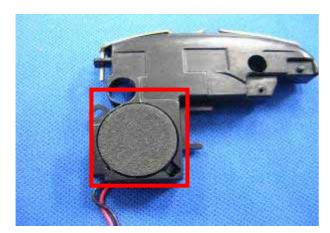


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	13 of 81	•

Doc. Title	Hermes Service Manual
D00. 1100	manual



- 1. USE PLASTIC STICK TO LIFT THE MAIN BOARD.
- 2. REMOVE ANTENNA FROM MAIN BOARD.



REMOVE SPEAKER FROM ANTENNA.



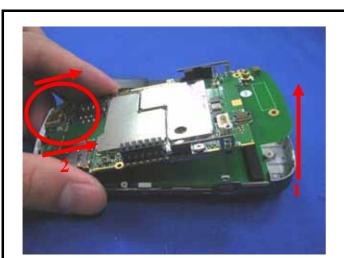
SLIDING THE FRAMES TO THE END.



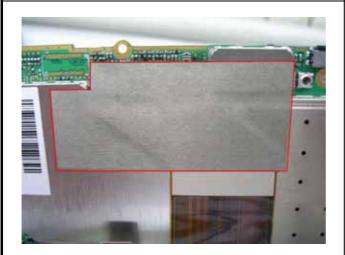


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	14 of 81	•

**Hermes Service Manual** Doc. Title

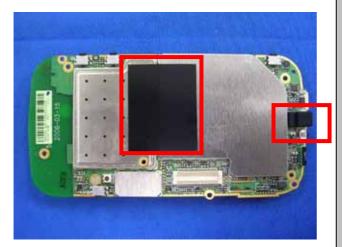


LIFT THE MAIN BOARD TO TAKE OUT THE MAIN BAORD FROM BOTTOM SIDE OF QWERTY KEYBOARD OF BEZEL.



REMOVE CONDUCTOR SPACER AND THEN DISCONNECT LCM FPC FROM MAIN BOARD. (PLEASE STICK A NEW CONDUCTOR SPACER WHEN IT IS REMOVED)

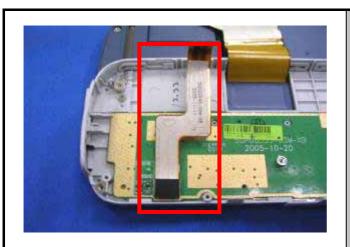
CONDUCTOR SPACER: 76H01488-00M (Q'TY: 1)



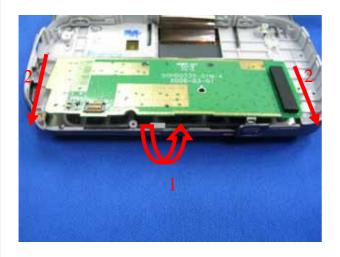
- REMOVE RUBBER CAP OF MICROPHONE.
   REMOVE MYLER (PLEASE STICK A NEW MYLER WHEN THE REPLACEMENT OF MAIN BOARD IS NEEDED)



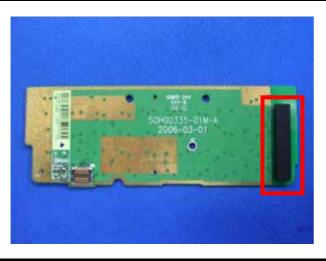




DISCONNECT THE FPC OF QWERTY KEYBOARD.



REMOVE THE PCBA OF QWERTY KEYBOARD.



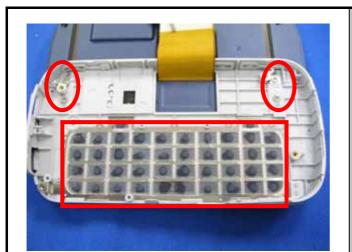
PLEASE STICK A NEW RUBBER WHEN REPLACEMENT OF PCBA OF QWERTY KEYBOARD IS NEEDED.





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	16 of 81	

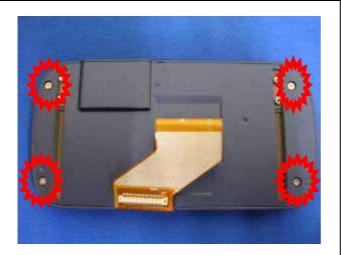
Doc. Title	Hermes Service Manual
Doo. Hillo	i ici ilica aci vioc ilialiaai



- 1. Remove Qwerty Keyboard.
- 2. Release four screw to remove the bezel of Qwerty Keyboard.
- ✓ SCREW: 72H01058-00M (Q'TY: 4)

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.3+- 0.05KGF-CM

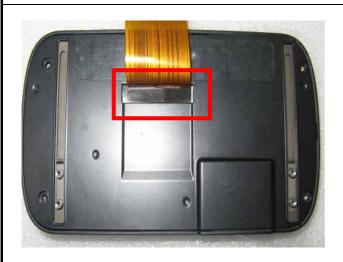


REMOVE FOUR SCREWS.

✓ SCREW: 72H01058-00M (Q'TY: 4)

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM



REMOVE MYLAR ON HOUSING OF LCM.

MYLAR: 76H01414-00M (Q'TY: 1)



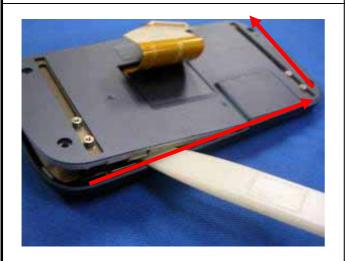


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	17 of 81	•

Doc. Title Hermes Service Manual



USE PLASTIC STICK INTO THE GAP FROM THE CORNER BETWEEN HOUSING OF LCM AND BEZEL OF LCM.



RELEASE ALL THE HOOKS TO REMOVE THE HOUSING OF LCM.



Remove one screw.

SCREW: 72H00724-00M (Q'TY: 1)

#### [NOTE]

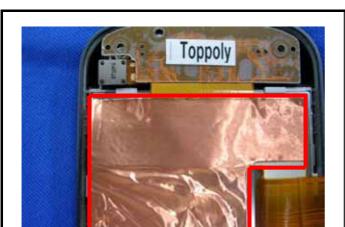
PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO <u>0.3+- 0.05KGF-CM</u>



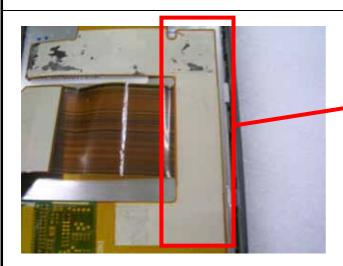


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	18 of 81	

Doc. Title Hermes Service Manual



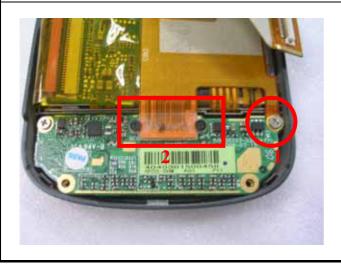
REMOVE COPPER FOIL.
(PLEASE STICK A NEW ONE ONCE REMOVED)





AN TRANSPARENT ADHESIVE DOUBLE SIDE TAPE IS UNDER PRE-ASSEMBLY OF LCM. (PLEASE STICK A NEW ONE ON PRE-ASSY OF LCM FPC ONCE REMOVED)

✓ ADHESIVE TAPE: 76H01487-00M (Q'TY: 1)



- 1. REMOVE ONE SCREW
- ✓ SCREW: 72H01058-00M (Q'TY: 1)

[NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM

- 2. Remove two screws to disconnect switch board FPC.
- ✓ SCREW: 72H01329-00M (Q'TY: 2)

Note1

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO <u>0.2+-0.05KGF-CM</u>





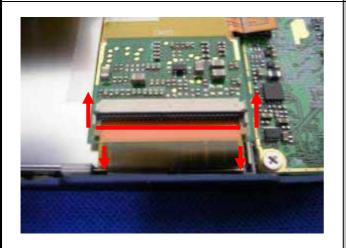
Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	19 of 81	

Doc. Title **Hermes Service Manual** 

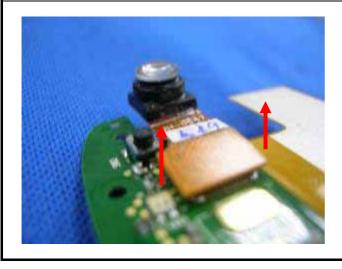
Page

REMOVE ISOLATED TAPE (PLEASE STICK A NEW ONE ONCE REMOVED)

ISOLATED TAPE: 76H01483-00M (Q'TY: 1)



LIFT THE CAP OF CONNECTOR TO EXTRACT LCM FPC WITH TWEEZERS AND THEN REMOVE PRE-ASSY OF LCM FPC.



DISCONNECT WEB CAMERA FROM PRE-ASSY OF LCM FPC.



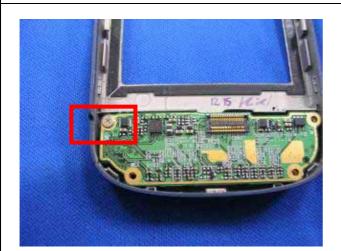


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	A03
Page	20 of 81	

Doc. Title Hermes Service Manual

Parameter and the second of th

Release hooks to remove LCM.



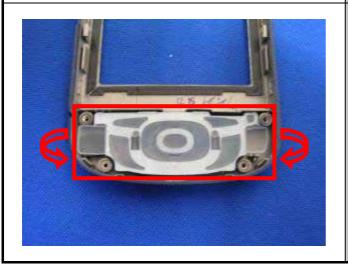
Release one screw and then remove switch board.

✓ SCREW: 72H01058-00M (Q'TY: 1)

[NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW

DRIVER TO 1.1+-0.05KGF-CM



REMOVE KEYPAD.







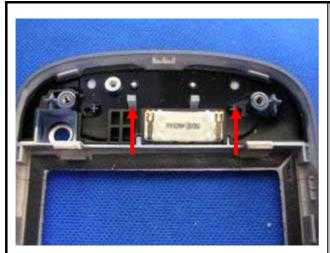
REMOVE RECEIVER.

THE DISASSEMBLY PROCEDURE IS FINISHED.

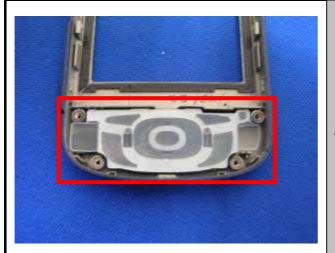


宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.	
		お注画家電子版の PFR 公司 High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Smart mot	onity		Revised Date	2006/8/7	AU3
Doc. Title		Hermes Service Manual	Page	22 of 81	

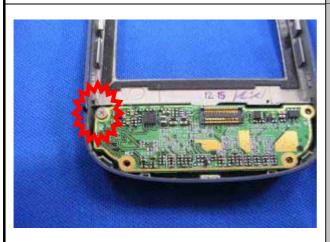
## 1.3 Assembly procedure



ASSEMBLE THE RECEIVER INTO BEZEL OF LCM AND PLEASE BE ATTENTION ON PIN DIRECTION.



ASSEMBLE THE KEYPAD INTO BEZEL OF LCM.



PUT THE SWITCH BOARD BACK AND FASTEN ONE SCREW AT UPPER LEFT CORNER.

✓ SCREW: 72H01058-00M (Q'TY: 1)
[NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM



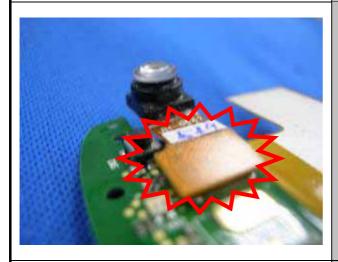


Doc. No.	Doc. No. <b>DOC-00018457</b>	
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	23 of 81	

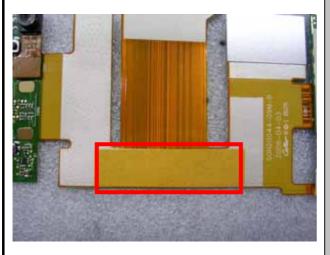
Doc. Title Hermes Service Manual



ASSEMBLE LCM INTO BEZEL OF LCM.



CONNECT WEB CAMERA TO PRE-ASSY OF LCM FPC.



STICK AN ADHSIVE TAPE ON PRE-ASSY OF LCM FPC BEFORE ASSEMBLING WITH LCM FPC.

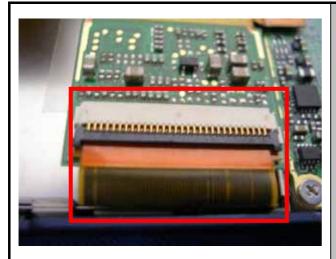
✓ ADHESIVE TAPE: 76H01487-00M (Q'TY: 1)



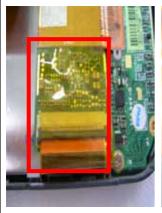


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	24 of 81	

Doc. Title Hermes Service Manual



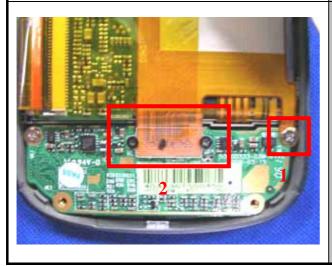
INSERT LCM FPC INTO CONECTOR OF PRE-ASSY OF LCM FPC.





STICK ISOLATED TAPE WHERE IS TOP JUSITIFIED TO PCBA OF PRE-ASSY OF LCM FPC.

✓ ISOLATED TAPE: 76H01483-00M (Q'TY: 1)



- 1. FASTEN ONE SCREW.
- SCREW: 72H01058-00M (Q' TY: 1)

#### [Note]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM

- 2. CONNECT THE FPC OF SWITCH BOARD TO SWITCH BOARD AND THEN FASTEN TWO SCREWS
- ✓ SCREW: 72H01329-00M (Q'TY: 2)

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 0.2+- 0.05KGF-CM





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	25 of 81	

Doc. Title Hermes Service Manual

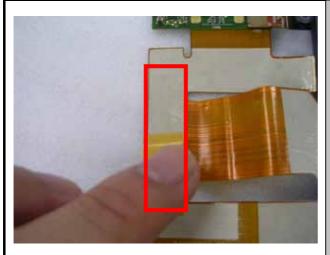
90°	90°	
-----	-----	--

CAUTION: PLEASE FOLLOW INSTRUCTIONS TO FASTEN TWO SCREWS FOR P/N OF 72H01329-00M.

- 1. Connect LCM connector to switch board.
- 2. FASTEN THE SCREW AT THE ANGLE OF 90 DEGREE BETWEEN SWITCH BOARD AND HAND/ELECTRICAL SCREW DRIVER.



CHECK POINT: No Slant is allowed.



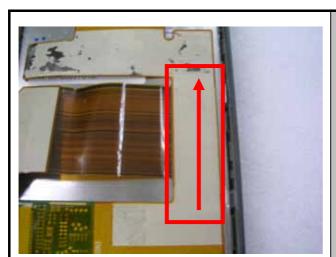
REMOVE PROTECTION OF THE OTHER SIDE OF ADHESIVE





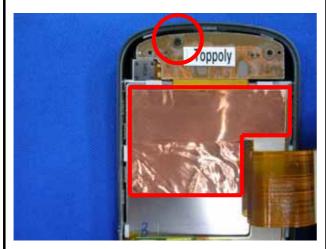
Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	26 of 81	

Doc. Title Hermes Service Manual



STICK IT ON THE BACK OF LCM AS PHOTO SHOWN.

NOTICE: FROM BOTTOM UP.



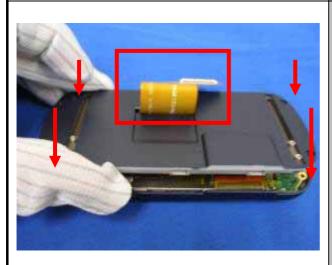
1. FASTEN ONE SCREW.

SCREW: 72H00724-00M (Q'TY: 1)

#### [Note]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO  $\underline{0.3+-0.05 \text{KGF-CM}}$ 

2. STICK COPPER FOIL.



INSERT THE FPC OF PRE-ASSY LCM INTO THE HOLE OF HOUSING OF LCM TO ASSEMBLE.





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	27 of 81	•

Doc. Title Hermes Service Manual



STICK A MYLAR ON HOUSING OF LCM AS PHOTO SHOWN.

✓ MYLAR: 76H01512-00M (Q'TY: 1)



FASTEN FOUR SCREWS.

✓ SCREW: 72H01058-00M (Q'TY: 4)

#### [NOTE]

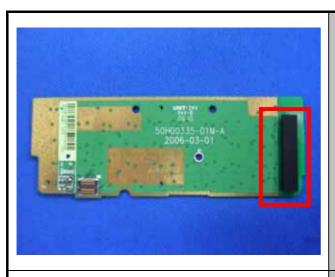
PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+-0.05KGF-CM



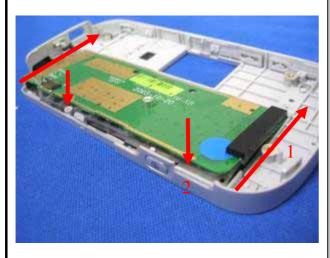
ASSEMBLE QWERTY KEYBOARD INTO BEZEL OF QWERTY KEYBOARD.



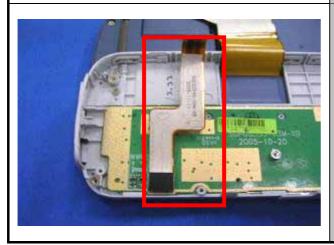




STICK QWERTY KEYBOARD RUBBER.



ASSEMBLE PCBA OF QWERTY KEYBOARD.



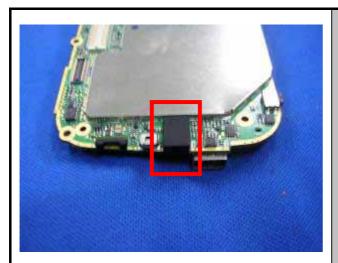
CONNECT KEYBOARD FPC TO PCBA OF QWERTY KEYBOARD.



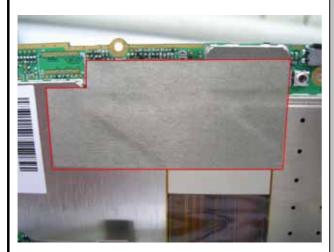


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	29 of 81	

Doc. Title Hermes Service Manual



ASSEMBLE MICROPHONE RUBBER WITH MAIN BOARD.



- CONNECT THE FPC OF PRE-ASSY LCM TO MAIN BOARD.
- 2. STICK CONDUCTOR SPACER WHERE IS TOP JUSTIFIED TO THE CONNECTOR OF FPC OF PRE-ASSY LCM.



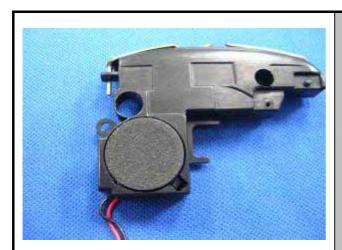
Assemble the main board from bottom side of bezel of  ${\bf Q}$  werty keyboard.



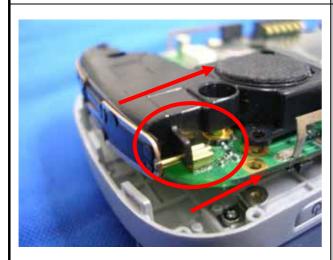


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	30 of 81	•

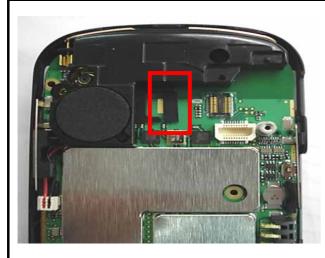
Doc. Title Hermes Service Manual



ASSEMBLE SPEAKER WITH ANTENNA.



ASSEMBLE ANTENNA WITH MAIN BOARD.



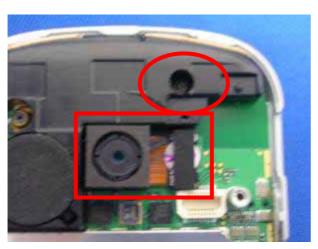
ASSEMBLE CAMERA RUBBER SUPPORT WITH MAIN BOARD.

✓ RUBBER: 76H01414-00M (Q'TY: 1)





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	31 of 81	

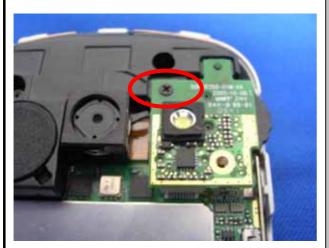


- 1. FASTEN ONE SCREW TO FIX ANTENNA WITH MAIN BAORD.
- ✓ SCREW: 72H01059-00M (Q'TY: 1)

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.1+- 0.05KGF-CM

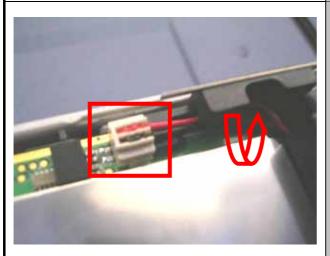
2. CONNECT CAMERA TO MAIN BOARD.



- 1. CONNECT FLASH LIGHT MODULE TO MAIN BOARD.
- 2. FASTEN ONE SCREW TO FIX FLASH LIGHT MODULE TO MAIN BOARD.
- ✓ SCREW: 72H00724-00M (Q'TY: 1).

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 0.4+- 0.05KGF-CM



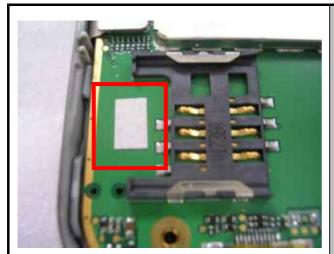
CONNECT SPEAKER ON MAIN BOARD.





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	32 of 81	•

Doc. Title Hermes Service Manual



STICK WATER INDICATOR ON MAIN BOARD CLOSE TO USIM CONNECTOR.

✓ WATER INDICATOR: **77H00203-00M** (Q'TY: 1).



ASSEMBLE VIBRATOR WITH HOUSING OF QWERTY KEYBOARD.





SET THE ADJUSTER OF CAMERA AND HOUSING TO BOTTOM BEFORE ASSEMBLY.





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	33 of 81	•

Doo Title	Harmas Carvias Manual
Doc. Title	Hermes Service Manual

	_
100 100 100 100 100 100 100 100 100 100	



#### **WARRANTY SEAL**

- . ASSEMBLE HOUSING OF QWERTY KEYBOARD.
- 2. ASSEMBLE HANGER.
- 3. FASTEN FOUR SCREWS.
- 4. STICK WARRANTY SEAL.
- ✓ SCREW: 72H01059-00M (Q'TY: 4).
- ✓ WARRANTY SEAL:77H00314-00M (Q'TY:1)

#### [NOTE]

PLEASE SET UP THE TORQUE OF ELECTRICAL SCREW DRIVER TO 1.3+- 0.1 KGF-CM



ASSEMBLE BATTERY.



INSERT STYLUS.







ASSEMBLE ANTENNA RUBBER.

THE ASSEMBLY PROCEDURE IS FINISHED.



000		宏達國際電子股份有限公司 High Tech Computer, Corp.	Doc. No.	DOC-00018457	REV.	
, O			Issued Date	2006/07/06	- A03	
Smart mor	ritity		Revised Date	2006/8/7		
Doc. Title	Heri	mes Service Manual	Page 35 of 81			



宏達國際電子股份有限公司 High Tech Computer, Corp.			Doc. No.	DOC-00018457	REV.
			Issued Date	2006/07/06	A03
		Revised Date	2006/8/7	AUS	
Doc. Title		Hermes Service Manual	Page	36 of 81	

## DIAGNOSTICS PROGRAM AND WINCE TEST ITEM (NOT FINAL VERSION)

1.4 Test Plan

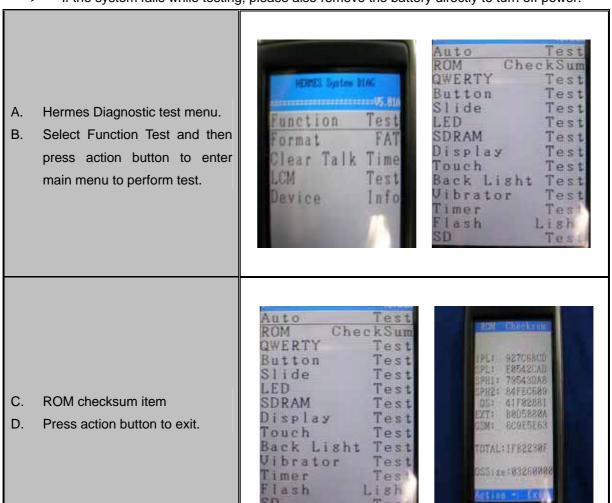
Mode	No	Item	Description	Remark		
	Function Test					
	1	Auto Test	Full functional test automatically			
	2	ROM Checksum Test	CE/Radio/Extended ROM checksum			
	3	Qwerty Test	Qwerty keyboard test			
	4	Button Test	Device button test			
	5	Slide Test	Sliding keyboard test with LED indicator			
	6	LED Test	LED indicator test.			
	7	SDRAM Test	SDRAM read test			
tic	8	Display Test	Multi-color pattern test for LCM			
	9	Touch Panel Test	Alignment test			
	10	Back Light Test	LCM back light test (On/Off)			
	11	Vibrator Test	Vibrator on test			
Diagnostic	12	Timer Test	System clock test			
agn	13	Flash Light	Camera and flash light test			
Ö	14	Micro SD Card Test	Micro SD card detection test			
	15	Speaker Test	Play sound from speaker			
	16	Receiver Test	Play sound from receiver			
	17	Headset Test	Play sound from headset			
	18	Internal Record Test	Internal MIC record and play to speaker			
	19	External Record Test	External MIC record and play to headset			
	Run	ı-in Test				
	1	1/2/4/8/12/24 Hour	Run-in Test	TBD		
	Device Information Check					
	Caution: Format FAT (Clear personal information data) for Unit Refurbishment					
	Caution: Clear Talk Time for Unit Refurbishment					
	LCM Test (Pattern/Alignment/Back light Test)					
Mode	No	Item	Description	Remark		
	1	USB Test	USB link with Microsoft ActiveSync synchronization			
WinCE	2 Camera Test		Capture and clip test for camera under Windows Mobile OS			
			mode			
	3	Bluetooth Test	Bluetooth test under Windows Mobile OS mode			
	4	Wi-Fi Test	Wi-Fi test under Windows Mobile OS mode			



htc		宏達國際電子股份有限公司 High Tech Computer, Corp.	Doc. No.	DOC-00018457	REV.
			Issued Date	2006/07/06	A03
Smart mor	Unity		Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	37 of 81	

#### 1.5 Test Procedure

- Power OFF.
- Insert Diagnostic Micro SD card (provided by HTC) to device.
- Press "Power + OK" button, release the buttons after hold for 2 seconds, and then the device will enter boot-loader mode.
- > On test menu, use Navigation button to select the item then press Action key to perform test
- Remove the battery directly or perform soft reset to exit the Diagnostic program when finish the testing.
- If the system fails while testing, please also remove the battery directly to turn off power.







E. F.	Qwerty keyboard test Follow on-screen message to test each button on Qwerty keyboard.	Auto Test  ROM CheckSum  QWERTY Test  Button Test  Slide Test  LED Test  SDRAM Test  Display Test  Touch Test  Back Light Test  Vibrator Test  Flash Light  SD Test
G. H.	Button test Follow on-screen message to test each button.	ROM CheckSum QWERTY Test Button Test Slide Test LED Test SDRAM Test Display Test Touch Test Back Light Test Vibrator Test Timer Test Flash Ligh SD Test
I. J.	Slide test with keyboard LED Follow on-screen message to slide Qwerty keyboard.	Auto Test ROM CheckSum QWERTY Test Button Test Slide Test LED Test SDRAM Test Display Test Touch Test Back Light Test Vibrator Test Timer Test Flash Ligh





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS

**Hermes Service Manual** Doc. Title 39 of 81 Page

- LED indicator test and press action button for next.
  - Red LED





- Green LED
- **BT LED**





- WLAN LED
- Ring LED









Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	40 of 81	•

Doc. Title

**Hermes Service Manual** 

- Qwerty keyboard LED
- Press action to return main menu.



SDRAM test.





M. Display test.

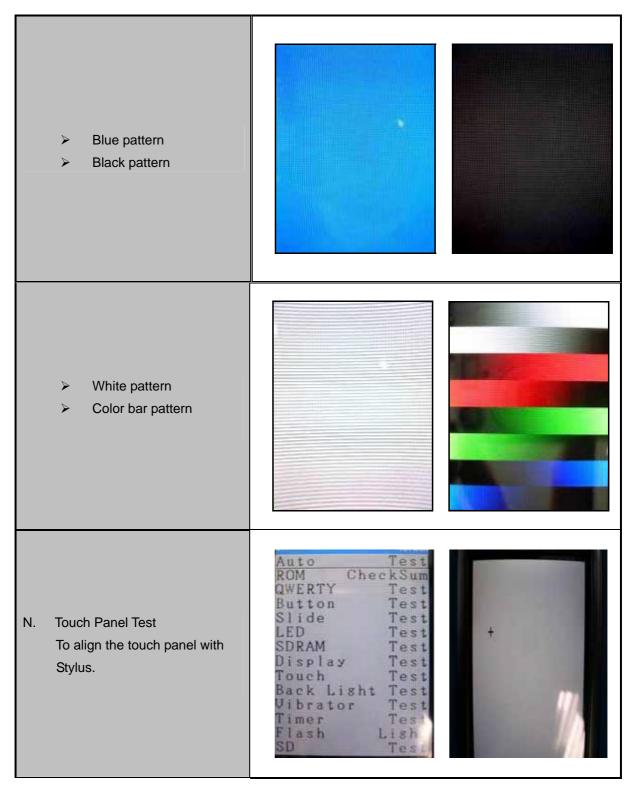
- Red pattern
- Green pattern















О.	Back Light Test Back light On/Off test.	Auto Test  ROM CheckSum  QWERTY Test  Button Test  Slide Test  LED Test  SDRAM Test  Display Test  Touch Test  Back Light Test  Vibrator Test  Timer Test  Flash Light  SD Test
P.	Vibrator test. You can feel device is vibrating if this function is OK.	Auto Test  ROM CheckSum  QWERTY Test  Button Test  Slide Test  LED Test  SDRAM Test  Display Test  Touch Test  Back Light Test  Vibrator Test  Timer Test  Flash Ligh  SD Test
Q.	Timer test. Test real-time clock.	Auto Test ROM CheckSum QWERTY Test Button Test Slide Test LED Test SDRAM Test Display Test Touch Test Back Light Test Vibrator Test Timer Test Flash Ligh SD Test





Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
ь.	10 6 01	

Doc. Title Hermes Service Manual Page 43 of 81

R. Camera and Flash light test

Press capture button to camera function.





Press camera button to test flash light function.





S. Micro SD card test.Insert micro SD card to test read function.

Auto ROM CheckSum QWERTY Test Button Test Slide LED SDRAM Display Touch Back Light Vibrator Test Timer Tes lash Ligh







Doc. No.	DOC-00018457	REV.	
Issued Date	2006/07/06	A03	
Revised Date	2006/8/7	AUS	
Page	44 of 81		

D

Doc. Litle	Hermes Service Manual

Headret

nt-Rec

- T. Press action to right to next test page for audio test.
- U. Play sound from speaker.

- ٧. **Receiver Test**
- W. Play sound from receiver.





X. **Headset Test** Follow on-screen message to Plug in headset and then press action button to start test.

Play sound from headset.









Y.

# 宏達國際電子股份有限公司 High Tech Computer, Corp.

Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	45 of 81	

Doc. Title Hermes Service Manual

Recording the sound from Mic

and play sound from speaker.

**Internal Record Test** 





Z. External Record Test Plug in headset to record the sound from Mic of headset and play sound from headset.





AA. Format FAT function.
Clear device storage.









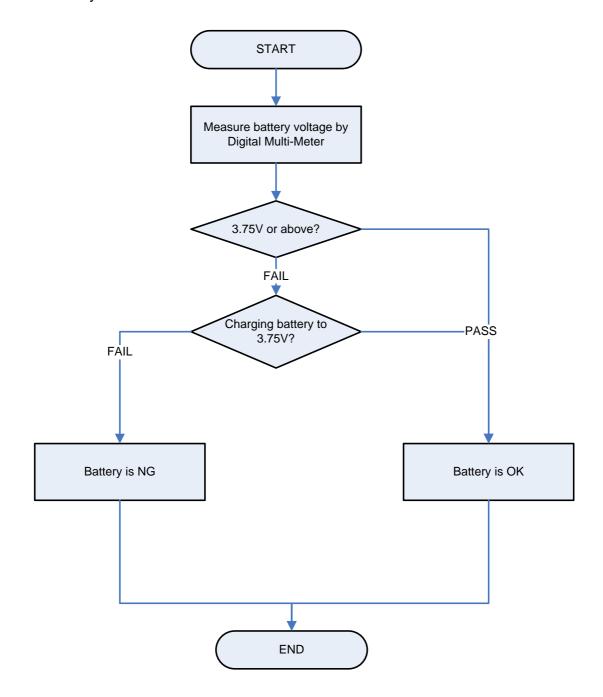
HERMES System DIAG -----V5.81A EM: 484L555999820 unction BB. Device Info. function. ormat Show device information. Clear Talk S Cert 1,88,88,18 Device HERMES System DIAG Clear Talk Time unction CC. Clear Talk Time function. format Clear talk time in OS mode. Clear Talk Clear OK Device



000			Doc. No.	DOC-00018457	REV.
, O		<b>公理國際電子版の FRX ロー</b> High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Smart mor	direy	• •	Revised Date	2006/8/7	AUS
Doc. Title	Hermes S	Service Manual	Page	47 of 81	

# MAIN BATTERY RE-CERTIFY PROCEDURE

1.6 Re-certify Flow Chart







#### 1.7 Test Procedure



EQUIPMENT NEEDED:
A. DETECTION CABLE
B. MULTI-METER



SET THE MULTI-METER TO DC.



CONTACT POSITIVE AND NEGATIVE PAD ON BATTERY WITH DETECTION CABLE.







#### **CONCLUSION:**

- 1. IF MEASURED VOLTAGE IS ABOVE 3.75V, THE BATTERY IS GOOD.
- 2. IF MEASURED VOLTAGE IS UNDER 3.75V, THE BATTERY IS DEECTED. PLEASE REPAICE BATTERY FOR REPAIR.



hTC smart mobility		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
			Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	50 of 81	

## **LEAKAGE CURRENT MEASUREMENT**

This is a quick method to measure if any abnormal leakage current on main board which caused high power consumption compare to GOOD main board.

#### (1) Requirement:

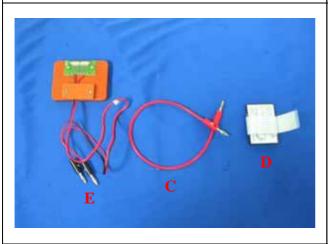
- Power supply
- Micro-current digital meter
- Current series Jig
- Cable
- **Battery Jig**



#### EQUIPMENT NEEDED:

- A. POWER SUPPLY (SET AT 4 V /1A)

  B. MICRO-CURRENT METER (SUPPORT 0.5MA ~ 1A)



#### FIXTURE NEEDED

- C. CABLE
- D. BATTERY WITH EXTENSION CABLE
- E. CURRENT SERIES JIG. (WITH BLACK AND RED CABLE)



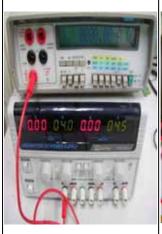


Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	51 of 81	

Doc. Title Hermes Service Manual



CONNECT CABLE (C) TO POSITIVE POLARITY OF POWER SUPPLY (A) AND CURRENT METER (B)





CONNECT CABLE OF FIXTURE( E ) TO NEGATIVE POLARITY OF POWER SUPPLY (A) AND CURRENT METER (B)



SETTING IS READY NOW FOR TESTING (DON'T TURN THE POWER ON AT THIS MOMENT)

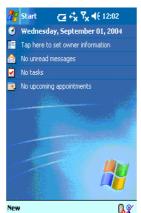




Doc. No.	DOC-00018457	REV.
Issued Date	2006/07/06	A03
Revised Date	2006/8/7	AUS
Page	52 of 81	

Doc. Title Hermes Service Manual





TURN ON POWER SUPPLY (4V) AND CURRENT METER (2A) SET THE UNIT TO:

- \* FLIGHT MODE
- \* TURN OFF BLUETOOTH



MEASURE FLIGHT MODE CURRENT

- 1. Choice Setting/System/Backlight/Brightness
- 2. ADJUST BRIGHTNESS LEVEL TO POWER SAVE.

CURRENT VALUE MUST BE UNDER **42 MILI-AMP**, IF OVER, IT MEANS M/B FAILED, PLEASE REPLACE M/B FOR REPAIR.



- 1. SWITCH OFF THE UNIT.
  UNIT IS TURN OFF AND NO DISPLAY.
- 2. MEASURE POWER OFF CURRENT
  CHECK CURRENT VALUE ON THE CURRENT METER,
  CURRENT VALUE MUST BE UNDER 6 MILI-AMP, IF OVER, IT
  MEANS M/B FAILED, PLEASE REPLACE M/B FOR REPAIR.



000		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
smart mobility		<b>公理國際電子版の FPK ロー</b> High Tech Computer, Corp.	Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	53 of 81	

CONCLUSION:  IF CURRENT CONSUMPTION PASSES AT BOTH OF FLIGHT AND
POWER OFF MODE, IT MEANS M/B IS GOOD.  IF THERE IS ANY ITEM FAILED AT FLIGHT OR POWER OFF MODE, IT MEANS M/B IS FAILED, PLEASE REPLACE M/B FOR REPAIR.



000		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
		<b>石建図版電子版の PR公司</b> High Tech Computer, Corp.	Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	54 of 81	

## **COSMETIC INSPECTION CRITERIA**

- 1.8 <u>Definition of Cosmetic Standard</u>
  - Standard is for refurbishment inspection.

#### 1.9 <u>Visual Inspection Requirements</u>

- Examination of the device shall be made with workbench light turned on.
- ➤ Ambient illumination is to be 500-1000 Lux.
- The inspector shall examine the device at a distance of 30cm ±45degrees.
- > Inspection time: 2 seconds per surface.

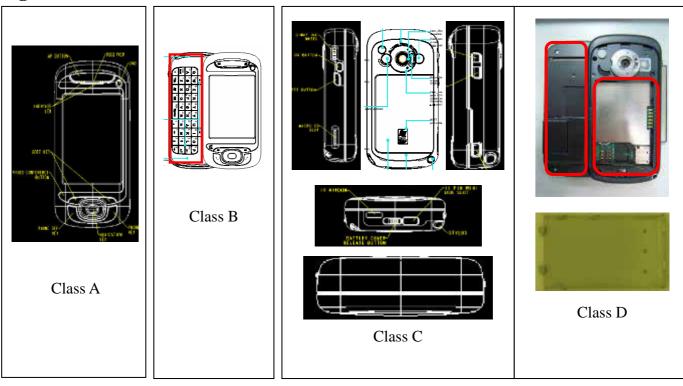
#### 1.10 Definitions of Inspection Defects and Areas

- Scratch: A linear cut that penetrated beyond the surface of the material/ A scratch can be felt by running your finger over it.
- Dot / Dent : A recessed spot or void in the surface of the material.
- Lint: A linear foreign object beyond the surface of the LCD.
- D: Diameter/ L: Length/ W: Width/ Number: Number of defects/ S: Distance of dot to dot.
- Class A area: The front side of main unit involves all buttons and LED lens except LCD.
- Class B area: The view of Qwerty keyboard after sliding out from main unit including stylus.
- Class C area: Four sides and back views of main unit.
- > Class D area: Socket of battery, inner side of battery cover and back side of upper sliding part.



000-	—————————————————————————————————————	Doc. No.	DOC-00018457	REV.
, D.	日本 名注画版電 1 放り 日曜日 High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Siliar tilor	Allicy	Revised Date	2006/8/7	A03
Doc. Title	Hermes Service Manual	Page	55 of 81	

Figure 1: Photo of inspection areas



## 1.11 Cosmetic Criteria Table

## > Main unit inspection:

Description	Accept criteria
Class A	Exposure of substratum is not acceptable Scratch: L 3mm,W 0.2mm,N 2
Class B & C	Exposure of substratum is not acceptable Scratch: L 7mm, W 0.25mm, N 3 Unconscious scratch on IR window is ignorable. IR window conscious scratch: L 3mm, W 0.2mm, N 3 Bright mark area should be less than 1 mm x 10 mm
Class D	Label area could be ignorable. Exposure of substratum is not acceptable. Scratch: L 10mm, W 0.4mm, N 5



000	—————————————————————————————————————	Doc. No.	DOC-00018457	REV.
, O, U	High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Siliart mot	miny	Revised Date	2006/8/7	A03
Doc. Title	Hermes Service Manual	Page	56 of 81	

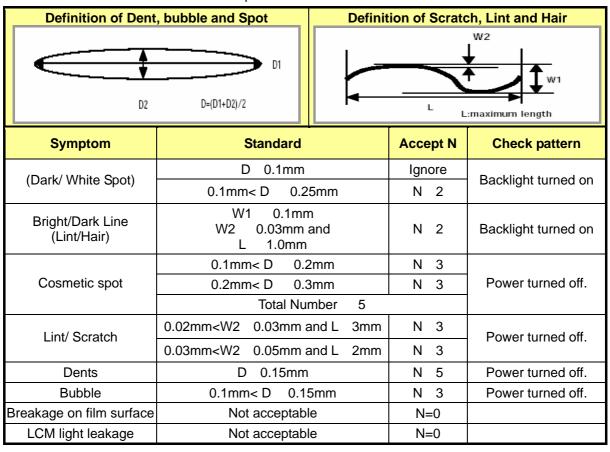
#### LCM inspection:

- Electrical characteristic inspection standard

Symptom		Standard		Distance bet	ween defect dots
	Single	Red+ Green+ Blu	e 3	S	5 mm
Bright Dots	2 adjacent	N=0			
	3 or more adjacent	N=0			
Dark Dots	Single	Total Number	2	S	5 mm
Dark Dois	2 adjacent	N=0			
Dark or Bright lines		N=0			
All Allowable Dots Defects		Total Number	3	S	5 mm

<sup>\*</sup> The total of LCM defect number must be less than 4 counts.

- Cosmetic/ Visual defect inspection standard





000		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
smart mobility		<b>石建図版電 1 版が 月限公司</b> High Tech Computer, Corp.	Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	57 of 81	

## Gap inspection standard

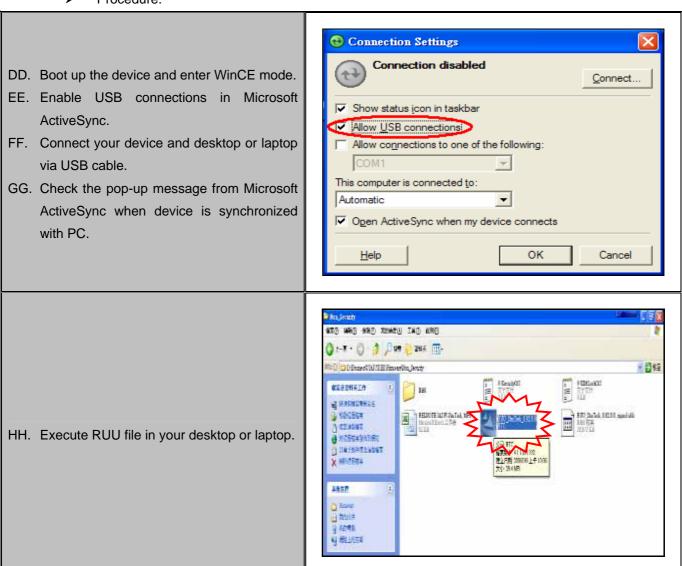
	Description	Accept Criteria
1	Gap between each key and mechanical parts	Can't stuck up or no click feeling
2	Gap between all generic mechanical parts	Gap between all generic ME parts < 0.4 mm
3		Stylus assembly protruding, loose, missing, falling and deformed is not allowed



500		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
smart mobility			Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	58 of 81	

## OS, GSM ROM IMAGE RE-FLASH PROCEDURE

- 1.12 OS upgrade thru RUU
  - Requirement:
    - Windows 2000/XP.
    - Microsoft ActiveSync 4.1 or above.
    - Mini-USB Cable.
    - Firmware. (download and log on RMAIII SDO system:http://htcscm10.htc.com.tw/SDO)
  - Procedure:







 Doc. No.
 DOC-00018457
 REV.

 Issued Date
 2006/07/06
 A03

 Revised Date
 2006/8/7

Doc. Title Hermes Service Manual Page 59 of 81

- II. Show message of "Welcome".
- JJ. Click "Next" to proceed.



KK. Extracting files.



LL. Show message of installation notice.

MM. Click "Next" to proceed.



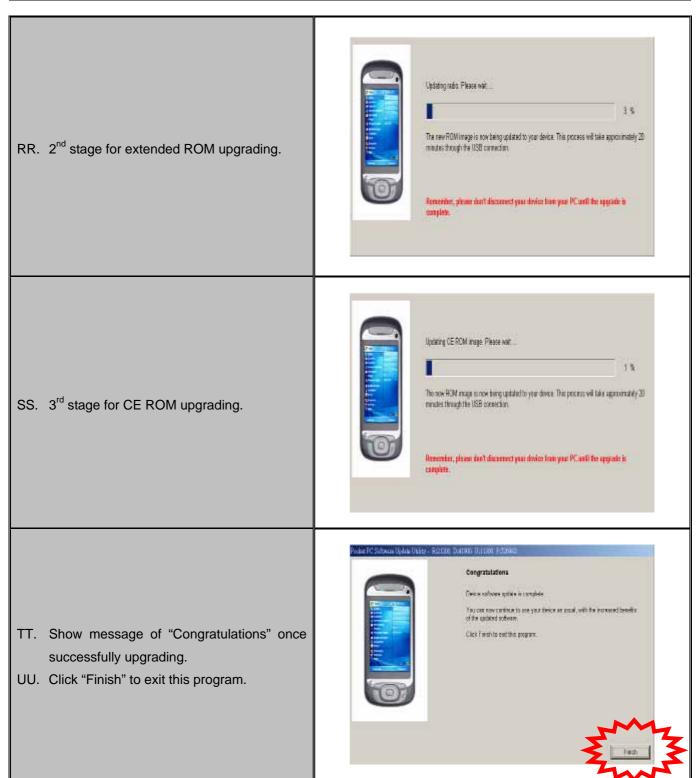




Checking the information on your device ... Please wait ... NN. Checking the information on your device. Please don't disconnect your device from your PC until the update is completed. Packet PC Software Update Uniter - F-21200 EN1200 Util 1900 F-700002 Deice (Einige renit) Device Extended insege version Davice Radia mags wroce 0.70.00 OO. Show the current version on your device and which version to be upgraded. Estanded image review 1 10.255 to 1 Radio resign version 1,00,00,10 PP. Click "Update" to proceed. While the update is in progress, all you nalls will be directed to the voice resilber, and recolleges will be delivered once the appliant in completed. Click Update to continue Updating ratio, Please wait. The new ROM image is now being updated to your device. This process will take approximately 20 minutes through the USE connection. QQ. 1<sup>st</sup> stage for radio upgrading. Remember, please don't discorned your device from your PC until the opgrade is









000		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.
smart mobility		High Tech Computer, Corp.	Issued Date	2006/07/06	A03
			Revised Date	2006/8/7	AUS
Doc. Title		Hermes Service Manual	Page	62 of 81	

## 1.13 OS upgrade thru SD card

A. B.	Prepare a micro SD card (128MB or above) and format to <b>FAT32</b> by your PC. Copy image file XXX.nbh to the micro SD card and rename to hermimg.nbh.	
C.	Put this micro SD card into you Hermes	
D.	device and enter Boot-Loader.  Press "Power + OK" button, release the	
	buttons after hold for 2 seconds, and then	
	the device will enter boot-loader mode.	
E.	When you see the download message,	
	press Action button to start the download	
	process.	



宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.		
			Issued Date	2006/07/06	A03	
			Revised Date	2006/8/7	AUS	
Doc. Title	Doc. Title Hermes Service Manual		Page	63 of 81		

#### TROUBLESHOOTING FOR REPAIR

#### Before repairing, please try to duplicate if the symptom exist or Customer mishandling

- 1 A . Main Unit Does Not Respond to Power Button
- 2 B . Main Unit Does Not Respond to Battery Switch
- 3 C . Charge light is red when plug in AC adapter
  - (1) Make sure the Battery is installed properly to activate the battery pack.
  - (2) Connect the AC Adapter, maybe the battery pack is exhaust.
  - (3) Check the Battery cover is close properly.
  - (4) Try with another battery pack.
  - (5) Replace battery pack if necessary.
  - (6) Try to enter boot loader mode, Perform Re-flash OS if successfully.
- (7) CMOS Camera is not assembled properly.
- (8) Check all connections including LCD FPC to Main Board. Try with another Main Board.
- (9) Fuse blown.
- (10) Customer abuse caused the power button fallen off
- (11) Both item 9 & 10, MB replacement is necessary unless you are authorized to do board level repair.
- (12) If Charge light is red when plug in AC adapter, it means the main battery is not charge enough and can't power on, You just need to continue charge unit the light become Amber.
- (13) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 2 - A . Touch Panel Does Not Respond to Screen Tap

- (1) Dismantle the unit, check the perimeter of Display between display Bezel and Touch Panel surface for unusual foreign objects. Clean it, reassemble the unit and check the panel's function again.
- (2) Check the connection of LCM FPC whether is properly connected.
- (3) Try with another LCM.
- (4) Try with another Rigid-Flex board.
- (5) Try with another Main Board.
- (6) Replace LCM if necessary
- (7) Replace Main Board if necessary.



000		·股份有限公司	Doc. No.	DOC-00018457	REV.	
smart mobility	High Tech Cor		Issued Date	2006/07/06	A03	
Smart mor	ility		Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Serv	ice Manual	Page	64 of 81		

(8) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 2 - B . Buttons Do Not Respond

- (1) Dismantle the unit, check the status of switches on the Main Board and the plastic parts of button of the Button not responding.
- (2) Try with another Main Board, rigid-Flex or keypad.
- (3) Replace Main Board, rigid-Flex or keypad if necessary.
- (4) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.
- (5) Hard Reset The unit.

#### 3 - A . Unusual Vertical / Horizontal lines or partial display

- (1) Check the connection of LCM FPC whether is properly connected.
- (2) Try with another LCM.
- (3) Try with another Rigid-Flex board
- (4) Try with another Main Board.
- (5) Replace LCM if necessary
- (6) Replace rigid-Flex board if necessary
- (7) Replace Main Board if necessary.
- (8) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 3 - B . Back Light Does Not Turn ON/OFF

- (1) Check the connection of FPC whether is properly connected.
- (2) Try with another LCM.
- (3) Try with another Rigid-Flex board
- (4) Try with another Main Board.
- (5) Replace LCM if necessary
- (6) Replace rigid-Flex board if necessary
- (7) Replace Main Board if necessary.
- (8) Once the defective part has been identified, verify it again with the defective part whether the



000		宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.	
smart mobility		<b>石建画版電 7 放め 内R 公</b> り High Tech Computer, Corp.	Issued Date	2006/07/06	A03	
			Revised Date	2006/8/7	AUS	
Doc. Title Hermes Service Manual		Page	65 of 81			

symptom could be duplicated.

#### 4 - A . Micro-SD Card cannot be used

- (1) Check whether micro-SD Card is fully inserted to the slot until you hear a click.
- (2) Try with another micro-SD card and Check whether it is Write Protected.
- (3) Try with another Main Board.
- (4) Replace Main Board if necessary.
- (5) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 5 - A . PC Connection (USB) not possible

- (1) Check whether "Connection Settings" in the MS ActiveSync is properly set.
- (2) Check whether it connects with other cables or cradle, customer's cable might be damaged.
- (3) Check the external appearance of the connector on the unit whether it is physically damaged.
- (4) Replace Main Board if necessary.
- (5) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 5 - B . Wireless Connection (GSM/ UMTS / GPRS / BT / WLAN) not possible

- (1) Make sure the user has been contacting the Carrier for SIM Card validation and activation.
- (2) Make sure the Wireless Connection Settings has been properly set.
- (3) Make sure the SIM Card is properly inserted to the SIM compartment. Make a life call or test it with the RF Test Station (Antenna Test).
- (4) Dismantle the Main Unit and check whether the Antenna cover is properly installed.
- (5) Try with another Antenna cover.
- (6) Try with another Main Board if necessary.
- (7) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 5 - C . IrDA Connection not possible

- (1) Make sure the IrDA port settings on the Notebook or PC are properly set.
- (2) Make sure the IrDA function is properly activated on the Pocket PC and on the other device.
- (3) Make sure there's no obstruction between the two devices in connection and within the distance.



000	宏達國際電子股份有限公司	Doc. No.	DOC-00018457	REV.	
smart mobility	High Tech Computer Corp	Issued Date	2006/07/06	A03	
	Mility	Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Service Manual	Page	66 of 81		

- (4) Check the IrDA window whether it is broken or cracked. Replace Front Bezel if necessary.
- (5) Replace Main Board if necessary.
- (6) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 6 - A . Main Battery does not start

- (1) Make sure the Battery cover is closed properly.
- (2) Connect to the AC Adapter and see if it takes charge. Also check AC Adapter condition.
- (3) Check whether AC Adapter is functioning properly.
- (4) Check whether the condition of Battery Charging status is correct.
- (5) Dismantle the unit and check the appearance of Battery cover.
- (6) Try with another Main Board or Replace Main Board if necessary.
- (7) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 6 - B . Battery discharges quickly even after fully charged

- (1) Make sure the Battery Pack takes fully charge with AC Adapter.
- (2) Check whether the condition of Battery Charging status is correct.
- (3) Dismantle the unit and check the appearance of Battery cover.
- (4) Try with another Battery or Replace Battery if necessary
- (5) Try with another Main Board or Replace Main Board if necessary.
- (6) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 7 - C . Main Battery does not recharge

- (1) Make sure the Battery takes fully charge with AC Adapter.
- (2) Check whether the condition of Battery Charging status is correct. Charge should be done in no more than 3 hours.
- (3) Dismantle the unit and check the appearance of Battery cover.
- (4) Try with another Battery or Replace Battery if necessary
- (5) Try with another Main Board or Replace Main Board if necessary.



000		Doc. No.	DOC-00018457	REV.	
smart mobility	High Tech Computer Corp	Issued Date	2006/07/06	A03	
	nincy	Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Service Manual	Page	67 of 81		

(6) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 8 - A . No Sound from Speaker or Distorted sound

- (1) Check "Sound & Notifications" Settings in the unit for Sound Enabling.
- (2) Make sure it's not MUTED.
- (3) Dismantle and Check whether the Speaker is properly installed (Orientation)
- (4) Make sure the connection point between MB and Speaker is free from contamination or dust.
- (5) Replace Speaker if necessary.
- (6) Replace Main Board if necessary.
- (7) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.
- (8) Replace Camera if camera function was defect at the same time.

#### 9 - A . No Recorded Sound or Distorted sound

- (1) Check "Sound & Notifications" Settings in the unit for Sound Enabling.
- (2) Make sure it's not MUTED.
- (3) Dismantle and Check whether the Microphone is properly installed (check or missing rubber)
- (4) Replace Microphone if necessary.
- (5) Replace Main Board if necessary.
- (6) Once the defective part has been identified, verify it again with the defective part whether the symptom could be duplicated.

#### 10 - A . Bezel, Housing Cosmetic damage

(1) Unless it is for Refurbishment, all Bezel, housing replacement due to cosmetic damage shall treat as out of warranty



<b>上</b> 安達國際電子股份有限公司		Doc. No.	DOC-00018457	REV.
smart mob	High Tech Computer Corp	Issued Date	2006/07/06	A03
Siliare mob	ility	Revised Date	2006/8/7	AUS
Doc. Title	Hermes Service Manual	Page	68 of 81	

# GENERIC SPARE PART LIST AND PHOTOS (FOR REFERENCE ONLY)

lte m	Number	Description	Q ty	Substitute
Generic K	ernel P/N	In a Title D. C.		0.511.00.054.0014
1	35H00060-00M	BATTERY_LI-	1	35H00074-00M,
2	36H00226-00M	IO N ,1350 m A h ,3.7 V ,U S 503759 A 8 H ,A pache R eceiver,E A S G 1 D 501 E 2 ,N A IS	1	35H00060-04M
3		Antenna, GAN 40030, AMPHENOL	1	
4	36H00344-00M 36H00366-00M	Vibrator, A 4 A - 05 - W TB - 8, C. I.KASEI	1	
5	36H00392-00M	Speaker, SBS 0 0 1 5 4 1 P - C C 0 1 - K , S A M B U	1	
6	36H00399-00M	Earphone, EM C 220-001-01, M E R R Y	1	
7	51H00314-00M	PCBA-MAIN BOARD, Hermes	1	
8	51H00333-00M	PCBA-WAIN BOARD, Hermes	1	
9	51H00335-00M	PCBA-Qwerty Keyboard, Hermes	1	
10	51H00350-00M	PCBA, Daughter Board, SEMTECH, Hermes	1	
11	54H00157-00P	Module Assy, Camera, 05 P 019, LITEON	1	
12	54H00160-00M	Module Assy, Camera, CMHT-21400T, PREMIER	1	54H00158-00P
		LCD Module,TD028STEB1,new		341100100 001
1 3	60H00037-01M	sunplus, TOPPOLY, Hermes	1	
1 4	70H00100-00M	Pouch, NEW TECH, HTC-229, belt clip type, Hermes	1	
15	71H01361-00M	Keypad,Qwerty Keyboard,gray,Hermes	1	
16	71H01364-00M	Keypad, PHONE, HERMES	1	
17	71H01455-00M	Dum my card, Micro-SD, Hermes	1	
18	72H00724-00M	Screw, PH, FD, T1.4*2.9, Nickel, Black, AISI 1018	2	
19	72H01058-00M	S crew , P H , F D , M 1 .6 * 3 .4 , N I C K E L + N Y L O K	10	
20	72H01059-00M	Screw,POINT Mechanical,P,1.6*4.5,BZ+NYLOK	5	
2 1	72H01144-00M	Holder, HANGER, HERMES	1	
2 2	72H01257-00M	Copper Foil,55*35*0.06m m ,Hermes	1	
23	72H01329-00M	S cre w ,M 1 *L1.2,P H -F L A T	2	
		Cable, CBAUB-018-8, USB Cable, shielding		
2 4	73H00241-00M	grounded, ACON, Hermes	1	
0.5	701100044 00M	FPC Pre-Assy,BezelFPC,for		
2 5	73H20044-09M	Toppoly,CAREER,Hermes	1	
26	73H20045-09M	FPC Pre-Assy,Qwerty Keyboard,CAREER,Hermes	1	
20	731120043-09W	TFC FIE-ASSY, Q WEITY REYDUATE, CAREER, HEITHES	'	
27	74H00560-00M	Bezel Pre-Assy,Keyboard,Hermes	1	
28	74H00573-00M	Bezel Pre-Assy,LCM,Hermes	1	
2 9	74H00574-00M	Housing Pre-Assy,LCM,Hermes	1	
3 0	74H00577-00M	Stylus Pre-Assy,HERMES	1	
3 1	74H00577-02M	Stylus Pre-Assy,Stylus with PE bag,Hermes	1	
3 2	74H00578-00M	Housing Pre-Assy,KEYBOARD,HERMES	1	
3 3	74H00579-00M	Cover Pre-Assy,BATTERY,Hermes	1	
3 4	76H01042-00M	G asket,Keypad.Apache	1	
35	76H01151-00M	Rubber,Microphone,Silicon,DY32 7069,Hermes	1	
3 6	76H01167-00M	R ubber, A N T E N N A , S IL IC O N , H E R M E S	1	
3 7	76H01167-00M	R u b b e r, A N T E N N A , S IL IC O N , H E R M E S	1	
38	76H01168-00M	Rubber, Keyboard support, DY32-7069, Hermes	1	
3 9	76H01211-00M	Rubber, LENS FLASH, SILICON, HERMES	1	
4 0	76H01221-00M	Rubber, CAMERA SPACER, SILICON, HERMES	1	
4 1	76H01036-00M	Tape,anti-short,Rigid-Flex board,Kapton tape		
		film ,W izard	1	
4 2	76H01315-00M	M ylar,R F - S hielding,H erm es		
			<del>                                     </del>	
4 3	76H01414-00M	Support,CAM,RUBBER,HERMES		
4.4	761104407.0014	Adhesive-Double Tape,BEZEL-FPC,TESA-		
4 4	76H01487-00M	4972,40*10*0.05mm,HERMES	1	
4 5	76H01488-00M	M E Gasket,gasket with conductive	1	
4 0	/ O N U I 4 8 8 - U U M	glue,keypad,50*23*0.12 m m ,H erm es	_ '	
4 6	77H00203-00M	Water Sensitive Label,4*2.5mm,Ming	1	
. •		J y e ,B lu e A n g e ls	<u> </u>	
47	77H00314-00M	Warranty Label,LABLE,SECURITY,HERMES	1	
4 8	77H00342-00M	Regulation Label,Main Unit,Generic,Hermes	1	



<b>シールー</b> 宏達國際電子股份有限公司		Doc. No.	DOC-00018457	REV.	
, O, U	High Tech Computer, Corp.	Issued Date	2006/07/06	A03	
Siliare mor	Mirry	Revised Date	2006/8/7	A03	
Doc. Title	Doc. Title Hermes Service Manual		69 of 81		

# PHOTOS OF SPARE PARTS (FOR REFERENCE ONLY)

# Picture for SPL 80H Kernel and Accessories (Part no on picture is for Reference only, please check SPL for detail per customer)

Part No.	35H00060-00M	
Description	Battery LI-ION	A CER A
Q'ty	1	A December 1981 - Marie Common

Part No.	36H00344-00M
Description	Antenna
Q'ty	1



Part No.	36H00392-00M	
Description	Speaker	
Q'ty	1	

Part No.	36H00366-00M
Description	Vibrator
Q'ty	1



Part No.	36H00226-00M	
Description	Receiver	
Q'ty	1	

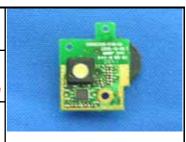
Part No.	51H00333-00M
Description	PCBA-Switch Board
Q'ty	1



Part No	51H00335-00M
Description	PCBA-Qwerty Keyboard
Q'ty	1



Part No	51H00350-00M
Description	PCBA-Daughter Board Flash light module
Q'ty	1



Part No.	51H00314-XXM (Different P/N by customer)
Description	PCBA-Main Board
Q'ty	1



Part No.	54H00157-00P
Description	Camera Module- Liteon
Q'ty	1





宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.	
			Issued Date	2006/07/06	A03
		Revised Date	2006/8/7	AUS	
Doc. Title		Hermes Service Manual	Page	70 of 81	

DUC. 1		rieilles service main	uui	raye	70 01 81
Part No.	54H00160-00M	<b>—</b> -	Part No.	72H01058-00M	
Description	Camera Module- Premier		Description	Screw, PH,FD,M1 6*3.4	40
Q'ty	1		Q'ty	10	•
Part No.	60H00037-01M		Part No.	72H01059-00M	
Description	LCD Module		Description	Screw, Point Mechanical 6*4.5	
Q'ty	1		Q'ty	5	
Part No.	72H01329-00M		Part No.	72H01144-00M	
Description	Screw, M1*L1.2 PH-Flat	94	Description	Holder,Hanger	
Q'ty	2		Q'ty	1	
Part No.	72H00724-00M		Part No.	73H20045-09M	
Description	Screw, PH,FD,T1.4*2.9 PH-Flat	<b>4</b> 55°	Description	Qwerty Keyboard, FPC, Pre-Assy.	A. O.
Q'ty	2		Q'ty	1	
Part No.	73H20044-09M		Part No.	74H00560-XXM (Different P/N by customer)	
Description	LCM, FPC, Pre- Assy.		Description	Bezel,Pre-Assy, Keyboard	
Q'ty	1		Q'ty	1	
Part No	74H00573-XXM (Different P/N by customer)		Part No.	74H00574-XXM (Different P/N by customer)	
Description	Bezel,Pre-Assy, LCM		Description	Housing,Pre-Assy, LCM	4
Q'ty	1		Q'ty	1	





Part No.	74H00578-XXIM (Different P/N by customer)		Part No	71H01361-XXM (Different P/N by language)	единия по
Description	Housing, Pre-Assy, Keyboard	Q I	Description	Qwerty Keyboard	
Qty	1		Qty	1	
	71H01364-XXIVI				
Part No	((Different P/N by customer)		Part No	74H00577-00IVI	
Description	Keypad		Description	Stylus	
Qty	1		Qty	1	
Part No	74H00579-XXM (Different P/N by customer)	6	Part No	76H001151-00M	
Description	Cover, Pre-Assy, Battery		Description	Microphone, Rubber	
Q'ty	1		Qty	1	
Part No	76H001168-00IVI		Part No	76H001167-00M	700
Description	Keyboard, Rubber	10-20 3	Description	Antenna, Rubber	li)
Q'ty	1		Qty	1	
Part No	76H01211-00M		Part No	76H01221-00M	
Description	Flash Light, Rubber	0	Description	Camera, Rubber	@ F
Qty	1	J	Qty	1	





Part No	72H01257-00M	
Description	Copper Foil	
Qty	1	15 75 1

Part No	76H01483-00IVI	
Description	Insulator tape	
Qty	1	

Part No	76H01315-00M	
Description	Mylar	difference of the second
Q'ty	1	

Part No	76H01488-00M	The second second	
Description	Gasket		
Qty	1		and the second

Part No	76H01487-00M	
Description	Adhesive Double Tape	
Q'ty	1	

Part No	76H01414-00M	
Description	Rubber, Support, Camera (On main board)	0
Qty	1	

Part No	36H00399-00M	
Description	Earphone	
Q'ty	1	

Part No	70H00100-00M	
Description	Pouch	
Qty	1	

Part No	71H01455-00M	
Description	Dummy Micro SD Card	
Q'ty	1	

Part No	73H00241-00M	
Description	USB Cable	
Qty	1	



000	—————————————————————————————————————	Doc. No.	DOC-00018457	REV.
smart mol	High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Smart mor	inty	Revised Date	2006/8/7	AUS
Doc. Title	Hermes Service Manual	Page	73 of 81	

Part No	77H00116-XXIM (Different P/N by customer)
Description	LCD Film
Qty	1

Part No	77H00314-00M	
Description	Warranty Label	VOID
Qty	1	

Part No	77H00371-XXM (Different P/N by customer)	HERM100 ( € 0560 ①  5V DC — 1A  FCC ID:NM8HERM100  B Bluetooth**	
Description	Regulation Label	05/22/5/2003 T ADG-0019005 2.4FH1/054/0F4	
Q'ty	1	Made in Takwan	

Part No	77H00203-00M	
Description	Water Sensitive Label	
Qty	1	To the section of

Part No	79H00057-XXM (Different P/N by region)	
Description	AC Adaptor	
Qty	1	



<b>上</b> 宏達國際電子股份有限公司		Doc. No.	DOC-00018457	REV.	
L	High Tech Computer Corp	Issued Date	2006/07/06	A03	
smart mobility. Their computer, corp.		Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Service Manual	Page	74 of 81		

## **A**PPENDIX

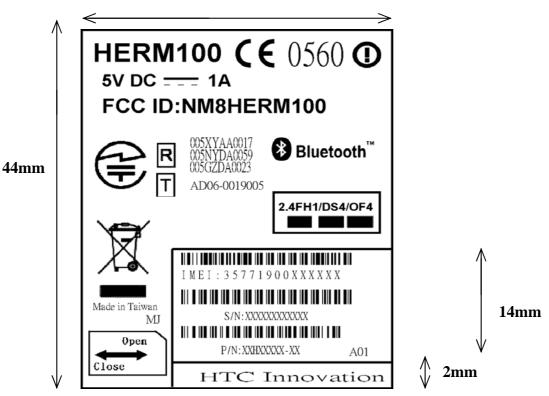
## **GENERIC LABELING PLAN**

- 1 Regulatory label
  - 1.1 Agency label

> HTC P/N: 77H00342-00M

> Size: 44 X 35 mm

#### 35mm





宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.	
			Issued Date	2006/07/06	A03
		Revised Date	2006/8/7	AUS	
Doc. Title	Hermes Servi	ice Manual	Page	75 of 81	·

#### 1.2 Definition of Serial Number

SSYWWPPZZZZZ

SS: Site Code -> HT

Y: Year, last digital of the Year.

WW: Week Code -> 01 ~ 54

PP: Product Code -> F2

ZZZZZ:

Model ID: HERM100

> Label Characteristic

Material: polyester Color: pantone 422c Ink: pantone 425c



<b>h</b> 大 宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.
		1 15 1	2006/07/06	A03
		Revised Date	2006/8/7	A03
Doc. Title	Hermes Service Ma	<b>nual</b> Page	76 of 81	

# **RF ANTENNA TEST SPECIFICATION**

	GSM	Antenna Test	Specific	ation	
Items	Test Name	Tx Level	тсн	1st Downlink Cell Power	Note
1	Camp @ DCS Band	0	512	-75	BCCH=600
2	BS Originate Call	0	512	-75	
	E	-GSM 900 Rec	eiver Tes	st	
3	Fast Bit Error Rate	5	975	-104	<= 2 %
4	Fast Bit Error Rate	5	37	-104	
5	Fast Bit Error Rate	5	124	-104	
	E-G	GSM 900 Trans	mitter Te	est	
5	Check TX Power	5	975	-75	>=29 dBm
6	Check TX Power	5	37	-75	
7	Check TX Power	5	124	-75	
	Γ	OCS 1800 Rece	iver Tes	t	
8	Fast Bit Error Rate	0	512	-104	<= 2 %
9	Fast Bit Error Rate	0	698	-104	
10	Fast Bit Error Rate	0	885	-104	
	Do	CS 1800 Transı	nitter Te	st	
11	Check TX Power	0	512	-75	>=26 dBm
12	Check TX Power	0	698	-75	
13	Check TX Power	0	885	-75	
	F	PCS 1900 Rece	iver Tes	t	
14	Fast Bit Error Rate	0	512	-104	<= 2 %
15	Fast Bit Error Rate	0	662	-104	
16	Fast Bit Error Rate	0	810	-104	
•	P	CS 1900 Transi	nitter Te	st	
17	Check TX Power	0	512	-75	>=26 dBm
18	Check TX Power	0	662	-75	
19	Check TX Power	0	810	-75	
•		GSM 850 Rece	iver Test		
20	Fast Bit Error Rate	5	128	-104	<= 2 %
21	Fast Bit Error Rate	5	189	-104	
22	Fast Bit Error Rate	5	251	-104	
	G	SM 850 Transr	nitter Te	st	
23	Check TX Power	5	128	-75	>=29 dBm
24	Check TX Power	5	189	-75	
25	Check TX Power	5	251	-75	





	WCDMA Ant	enna Tes	st Specification		
Items	Test Name	Power Level	Uplink/Downlink UARFCN	1st Downlink Cell Power	Note
1	Camp @ W-CDMA Band I (2100)	3	9613/10563	-60	
2	BS Originate Call	3	9613/10563	-60	
	!	Receiver	Test		
3	Bit Error Rate	3	9613/10563	-104	<= 0.1 %
4	Bit Error Rate	3	9750/10700	-104	
5	Bit Error Rate	3	9887/10837	-104	
	Tr	ansmitter	Test		
6	Check TX_Max Power	3	9613/10563	-60	>= 18 dBm
7	Check TX_Max Power	3	9750/10700	-60	
8	Check TX_Max Power	3	9887/10837	-60	
Items	Test Name	Power Level	Uplink/Downlink UARFCN	1st Downlink Cell Power	Note
1	Camp @ W-CDMA Band II (1900)	3	9263/9663	-60	
2	BS Originate Call	3	9263/9663	-60	
		Receiver	Test	•	
3	Bit Error Rate	3	9263/9663	-104	<= 0.1 %
4	Bit Error Rate	3	9400/9800	-104	
5	Bit Error Rate	3	9537/9937	-104	
	Tr	ansmitter	Test		
6	Check TX_Max Power	3	9263/9663	-60	>= 18 dBm
7	Check TX_Max Power	3	9400/9800	-60	
8	Check TX_Max Power	3	9537/9937	-60	
Items	Test Name	Power Level	Uplink/Downlink UARFCN	1st Downlink Cell Power	Note
1	Camp @ W-CDMA Band VI (850)	3	4133/4358	-60	
2	BS Originate Call	3	4133/4358	-60	
		Receiver	Test		
3	Bit Error Rate	3	4133/4358	-104	<= 0.1 %
4	Bit Error Rate	3	4175/4400	-104	
5	Bit Error Rate	3	4232/4457	-104	
	Tr	ansmitter	Test		
6	Check TX_Max Power	3	4133/4358	-60	>= 18 dBm
7	Check TX_Max Power	3	4175/4400	-60	
8	Check TX_Max Power	3	4232/4457	-60	



<b>トーこ</b> 宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.
			2006/07/06	A03
		Revised Date	2006/8/7	A03
Doc. Title	Hermes Service Manua	Page	78 of 81	

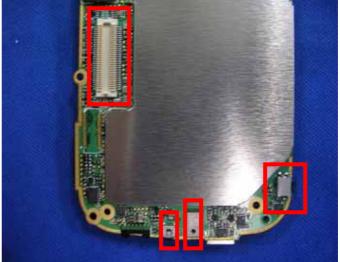
# **BOARD LEVEL 2.5 REPAIRS INTRODUCTION**

## Main board (obverse side)

Location	P/N	Description	Substitute
SW2, SW4 SW6, SW7	36H00129-00M	SWITCH BUTTON,PTS-106,HCH,4.7*4.5*1.65,70/-20degC	36H00413-00M
CON 8	75H00524-00M	Connector B to B,60P,0.5Pitch,AXK5F60347YG,MATSUSHITA	
SW 3	36H00230-00M	SWITCH,SOH-213HST,MITSUMI,70/-20degC	
AMIC1	36HUU2U8-UUIVI	MIC,SP0103NB3-SB-3,EMKAY,Pb-FREE,100/-40degC,6.15*3.76*1.45 mm	

## Obverse Photo and Component Location

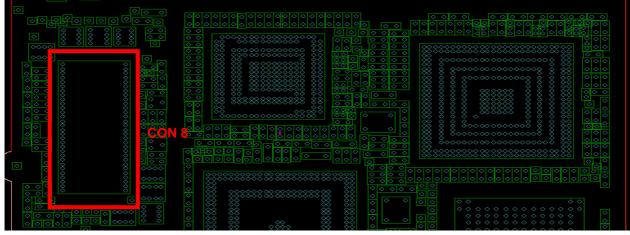


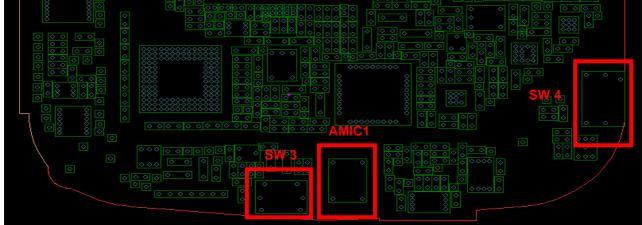












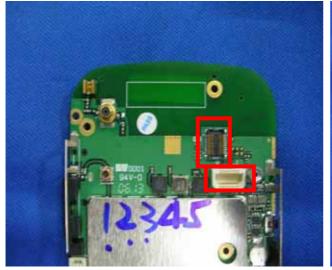


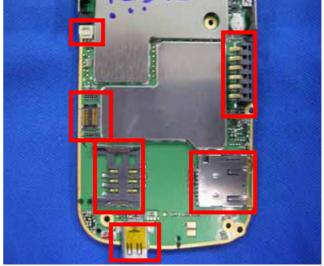
宏達國際電子股份有限公司 High Tech Computer, Corp.		Doc. No.	DOC-00018457	REV.
		Issued Date	2006/07/06	A03
Siliar Ciliob	inty.	Revised Date	2006/8/7	A03
Doc. Title	Hermes Service Manual	Page	80 of 81	

## Main board (Reverse side)

Location	P/N	Description	Substitute
CON4, CON9	75H00420-00M	Connector B to B,Female,22P,0.4Pitch,AXK7L22227,MATSUSHITA ,6.8*5.0*0.87mm	
CON 11	75H00116-00M	CONNECTOR-F,B-TO-B,SMT,AXK5S20035,NAIS,Pb FREE	
SW 9	36H00308-00M	Switch,Reset switch,SOH-213HNT,MITSUMI	
ACON 4	75H00124-00M	Connector Device,BM02B-ASRS-TF_LF_SN,2pin,Pitch=1mm,JST	
CON 12	75H00395-00M	Connector SIM Card,50mohm,ICC-429,hamburg	
CON 7	75H00467-10M	Connector,Micro SD,10P,1.1Pitch,100053FB010S401ZL,SUYIN, 100mohm,0.5A,5V	
CON 13	75H00465-10M	Connector I/O,Reverse,11P,0.4pitch,302-11101-01,ACT,Vera	
PCON 101	75H00451-00M	Connector Device,6P,2.5Pitch,250042MB006G310ZR,SUYIN,2A,12V	

## Reverse Photo and Component Location

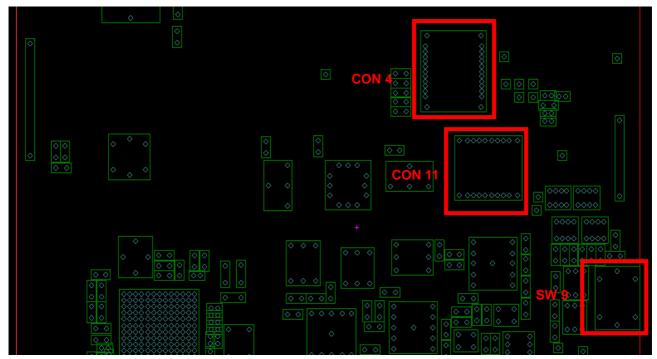






□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		Doc. No.	DOC-00018457	REV.
, D.	High Tech Computer, Corp.		2006/07/06	A03
Smart mor			2006/8/7	AUS
Doc. Title	Hermes Service Manual	Page	81 of 81	







000		Doc. No.	DOC-00018457	REV.
smart mol	High Tech Computer, Corp.	Issued Date	2006/07/06	A03
Smart mor	inty	Revised Date	2006/8/7	
Doc. Title	Hermes Service Manual	Page	82 of 81	

