

ASUS P320 Service Manual (L1&L2)



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1 Equipment Need

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Computer	None	None	1	
2	SIM Card	None	None	1	CAS0450
3	P320	80A-S5N1000	ASUS	1	
4	Battery	07G016063459	ASUS	1	qo'
5	USB download cable	14G000506200	ASUS	1	
6	Screwdriver (T5)	16-T00362002	ASUS	1	
7	Tweezers	16-000600014	ASUS	1	
8	Plastic Wrench	13GV0400PZZZ	ASUS	1	
9	Micro SD Card	04G352800500	ASUS	1	™\$2 1: / SLIS
10	ADAPTER	04G267013800	ASUS	1	2

2 Introduction

2.1 About This Service Manual

Using this service manual and the suggestions contained in it assures proper installation, operation, and maintenance of the PDA P320. This manual aids service personnel in testing and repairing P320. Service personnel should be familiar with electronic assembly, testing, and troubleshooting methods.

2.2 Overview

ASUS P320 is the smallest Windows Mobile GPS PDA phone with the compact size of 99*54.5*13.35 mm to further enhance mobility. The female fashion design makes it slim and compact. EDGE/GPRS & WiFi can help to enhance data transmission and Bluetooth can also make the PDA connect with PC and peripherals. New ASUS-only applications complement WM's diversity.



2.3 Product Specification

System	EDGE/GPRS/GSM 850/900/1800/1900MHz EGPRS Class B, Multi-slot Class 10
Form Factor	Bar Type
Dimension & Weight	99 x 54.5 x 13.35 mm, 105g
Battery	1100 mAh Lithium-Ion
Talk Time	4 hrs (TBC)
os	Microsoft Windows Mobile 6 Professional*
Processor	TI OMAP 850 200 MHz
Memory	128 MB Flash + 64 MB DDR
Display	2.6" , Touch Screen 65K, TFT, 240 x 320
Camera	2.0 Mega pixel AF
GPS	SiRF StarIII LT with internal antenna, AGPS supported (optional)

Connectivity	WLAN 802.11b+g, USB v1.1, Bluetooth V2.0+EDR
Exp. Slot	Micro-SD (SDHC Compatible)
Music	MP3, WMA, AAC, and AAC+
Browsing	HTTP and WAP 2.0
Messaging	SMS, MMS 1.2, and Push E-mail
JAVA	J2ME (CLDC 1.1 + MIDP2.0)
DRM	OMA 1.0 (optional)
PIM & Utilities	Contacts, Notes, Calendar, Tasks, Alarm, Calculator, File Manager, and MSN
Ringtone	128-ch Polyphonic ringer & MP3
Others	ASUS Today, Profile Manager, Theme Manager, UrTime, Newstation, ASUS Backup, etc.

3 Disassembly / Assembly Procedure

3.1 Introduction

This section describes how to disassemble PDA P320. Many of the integrated devices used in this phone are vulnerable to damage. Ensure adequate static protection is in place when handling, shipping, and servicing any internal components.

3.1.1 Recommended Tools

- ☐ Anti-Static Mat (Ground Cord included)
- ☐ Anti-Static Wrist Strap
- ☐ Torque Screw Driver (T5 type, torque is set to 1.2kg-cm)
- ☐ Tweezers
- ☐ Plastic blade



3.1.2 Disassembly Procedure

The following set of diagrams will demonstrate the correct sequence and action to disassemble P320.

■ Step 1
Take the stylus away from the PDA.



■ Step 2 Remove the battery cover and take the battery away.





■ Step 3
Pry the left side and the top side of the antenna cover and then take the antenna cover away.







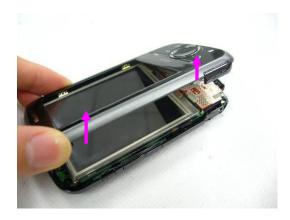
■ Step 4 Unscrew and remove 5 screws on PDA by screw driver.



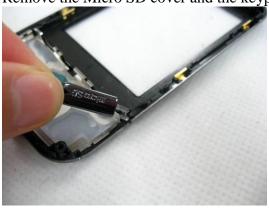
■ Step 5
Pry the top side and the left side of the top case assy and then separate the top case from the PDA.







■ Step 6 Remove the Micro SD cover and the keypad.





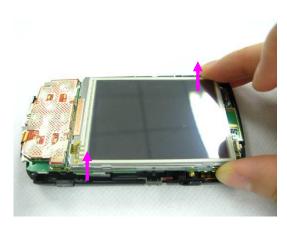
■ Step 7 Remove the receiver by a pair of tweezers.



■ Step 8

Release the main board from the hook on bottom case first. Then separate the main board from the bottom case assy. Please pay attention to the GPS CON. Do not crush it when disassembling.





■ Step 9

Open the camera connector and remove the camera.



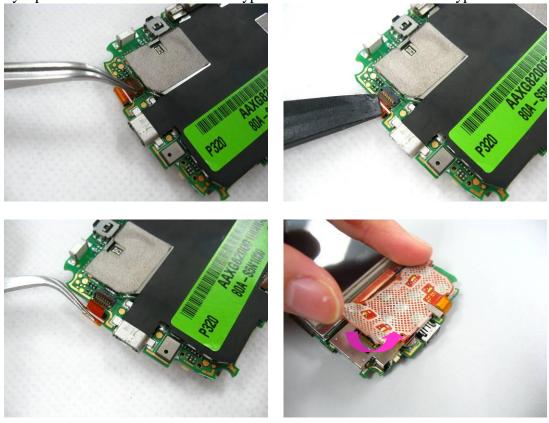


■ Step10 Remove the MIC rubber.



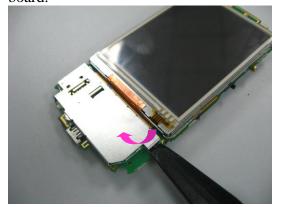
■ Step11

Tear off the keypad CONN mylar and open the keypad connector. Then release the keypad FPC by a pair of tweezers. Tear off the Keypad-VER CAREER from the keypad frame.



■ Step12

Release the keypad frame from its hook. Then pry the right side and separate it from the main board.







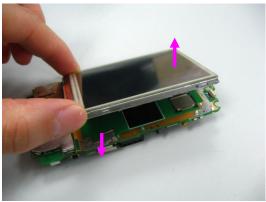
Step13

Tear off the LCD Conn mylar and open the FPC connector. Then release the touch screen FPC by a pair of tweezers. Separate the touch screen from the main board.



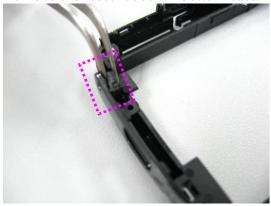






Step 14

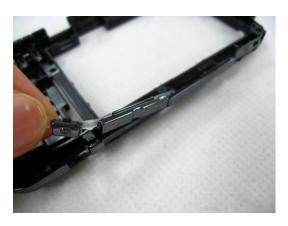
Remove the reset rubber in bottom case.



Step15
Remove the Hold key, shuttle key, side key and power key from the bottom case.









Step16
Remove the speaker.





■ Step17
Release the antenna FPC from the bottom case and pull it out. Then tear off the antenna FPC from the bottom case.







3.1.3 Assembly Procedure

It is carried out in the exact reverse sequence as the disassembly.

■ Step 1 Paste the antenna FCP on bottom case assy and arrange it well.





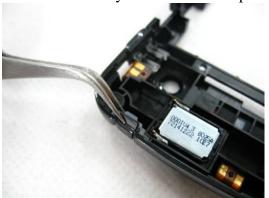


■ Step 2 Install the speaker on bottom case assy.





■ Step 3
Install the four keys on bottom case: power key, side key, shuttle key and the hold key.

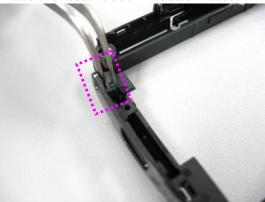








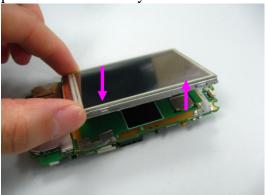
■ Step 4
Place the reset rubber in bottom case.



Step 5

Assemble the touch screen with the main board. Connect the FPC and close its connector. Then

paste 1 LCD Conn mylar.

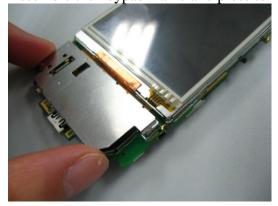








■ Step 6 Assemble the keypad frame and press to fix it into the hooks.



■ Step 7
Paste the Keypad-VER CAREER and connect its FPC with the main board. Close its connector and fix the keypad CONN mylar.









■ Step 8
Install the MIC rubber.



■ Step 9 Install the camera and fix its connector.





■ Step 10

Install the main board and arrange it in the bottom case. Please switch the Hold key to the right place on main board and bottom case at first. Press the main board into the hook in bottom case. Please do not crush the GPS CON.





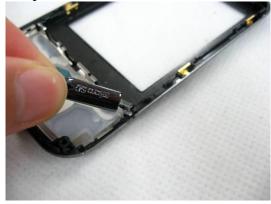


■ Step 11 Install the receiver by a pair of tweezers.



■ Step 12 Assemble the keypad and Micro SD cover on top case.





■ Step 13 Install the top case and press four sides to fix it.



Step 14

Secure 5 screws on bottom case assy.



■ Step 15 Install the antenna cover and press to fix it.



■ Step 16 Place the battery back and install the battery cover.

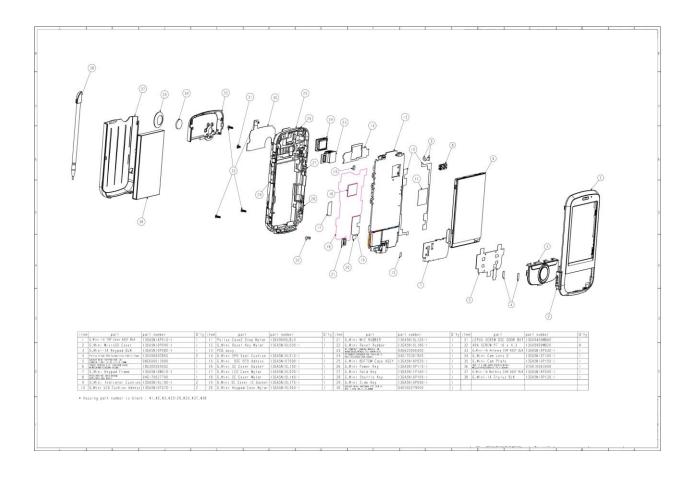




Step 17
Insert the stylus.



3.2 Exploded Diagram



4 MMI Testing

1. Download & Copy files to micro SD card.



2. Insert micro SD card.



3. Please follow instructions as displayed.

3-1. Touch Panel Calibration Test

align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.



align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

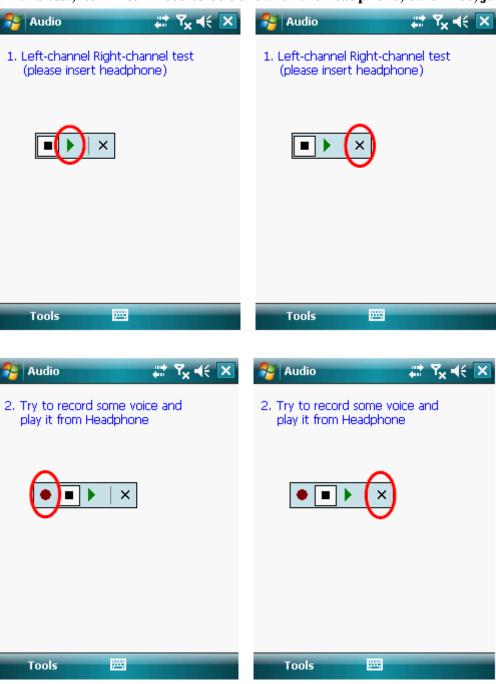




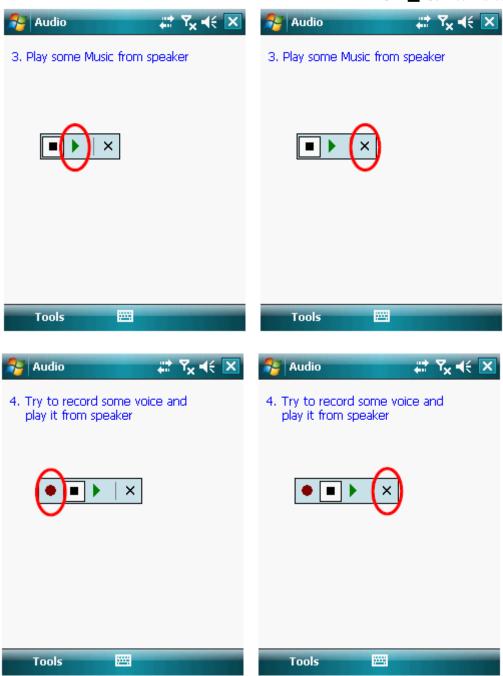


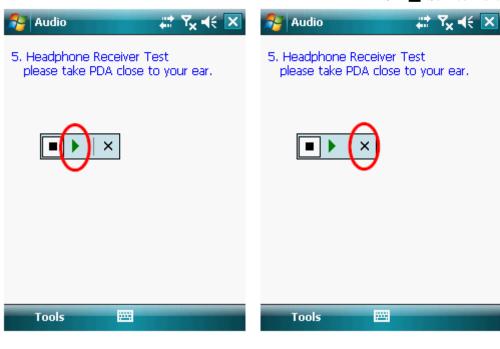
3-2. Audio Test

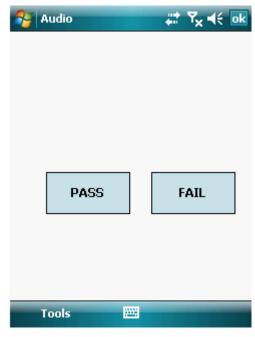
In this test, item 1 & 2 need to be done with the headphone, otherwise, just bypass.











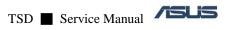


3-3. Keypad Test

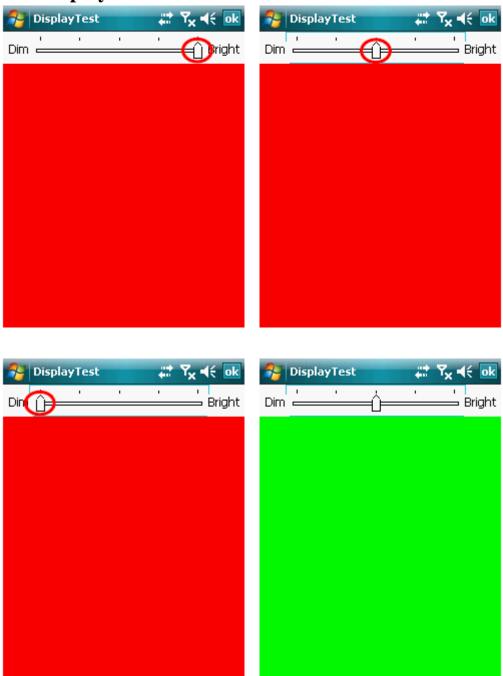


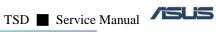
3-4. Camera Test

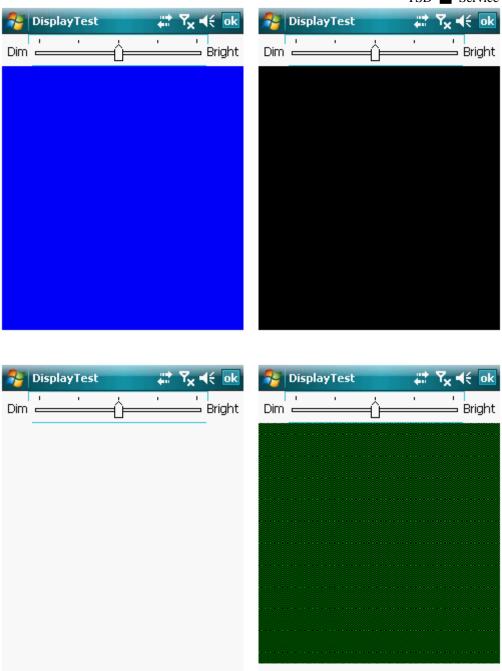


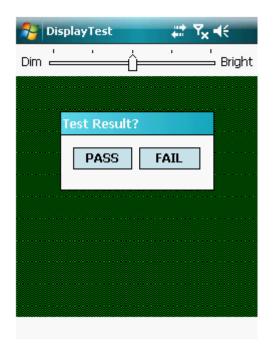


3-5. Display Test

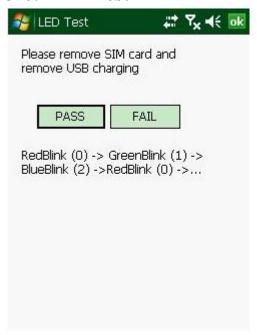








3-6. LED Test



3-7. Vibrator Test



3-8. Battery Test

