Programmes After Market Services NHP-2 Series Transceivers

8. Disassembly

Issue 1 05/2002 ©Nokia Corporation

8. Disassembly

Contents	
Disassembly of the NHP-2	5
Preparation for Disassembly	5
Disassembly Tools	5
ESD Protection	5
Step-by-Step Disassembly Instructions	6
1. Remove the battery cover.	6
2. Remove the battery.	6
3. Loosen and remove D-cover screws.	
4. Separate A-cover assembly from D-cover assembly.	7
5. Disassemble the A-cover assembly	
6. Remove keymat.	8
7. Remove speaker gasket/power key and speaker.	8
8. Remove the speaker.	9
View of A-cover side of phone (disassembled)	
View of phone without the A-cover	10
9. Remove the screws from LCD assembly/PWB assembly	10
10. Remove the PWB assembly/LCD assembly from the D-cover assembly.	10
PWB/LCD assemblies and D-cover assembly	11
11. Loosen and remove microphone assembly from the PWB/LCD assembl	y. 11
12. Remove LCD assembly.	11
Disassembled PWB/LCD assembly	12
Above is the PWB/LCD assembly, disassembled down to the components	12
D-cover assembly	12
13. Remove antenna.	12
D-cover assembly with internal antenna removed	13
6385 Disassembled to the Component Level	

Disassembly of the NHP-2

Preparation for Disassembly

Disassembly Tools



Shown left to right: Torque-limiting screwdriver (torque set at 16.9N-cm), fiberglass soldering aid, and T6 torx driver.

ESD Protection



Some form of ESD protection should be used when handling the PWB and other electronic components. The photo above shows a wrist strap, which can be grounded to a bench. This or some other form of ESD protection should be used when handling the phone.

Step-by-Step Disassembly Instructions

1 Remove the battery cover.



- 1. Turn phone off.
- 2. Place phone in the palm of hand as shown above.
- 3. Place your other hand over the entire back, using firm pressure of the heel of your hand to loosen and slide the battery cover down and away from the transceiver.



2. Remove the battery.



Peel the battery out of the phone by pulling outward on the top edge, as shown.

3. Loosen and remove D-cover screws.



There are four screws to be removed: two in the battery recess and two at the bottom of the phone. Using a T6 driver, loosen and remove the four screws.

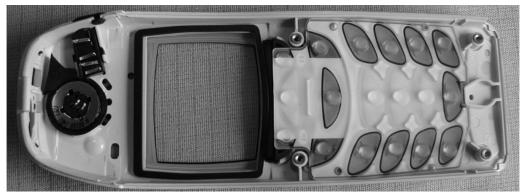
4 Separate A-cover assembly from D-cover assembly.



While holding the phone as shown, gently rotate the A-cover away from the D-cover. There is a snap at the top of the phone that will disengage as the A-cover is rotated.

NHP-2

5. Disassemble the A-cover assembly.



Now the A-cover assembly of the phone may be disassembled. Show above is the A-cover assembly, along with the keymat assembly, power key/speaker gasket, speaker, headset jack, and headset jack dust plug.

6. Remove keymat.



Starting from the top, peel the keymat out of the A-cover assembly.

7 • Remove speaker gasket/power key and speaker.



Using the fiberglass soldering aid tool, gently pry upward on the speaker gasket with the speaker still in place. DO NOT TOUCH THE SPEAKER SURFACE OR SPRINGS.

8 Remove the speaker.



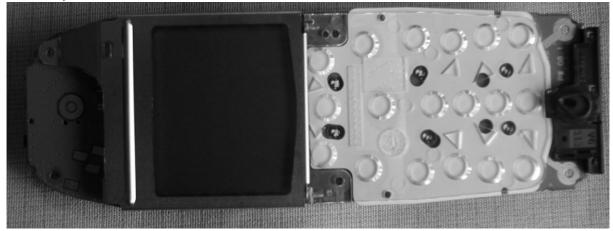
Being careful *not* to touch the spring contacts, gently apply pressure with a finger to the backside of the speaker in the speaker gasket to remove it from the gasket. It is critical that no damage is done to the thin membrane on the outside of the speaker. DO NOT TOUCH THE SPEAKER SURFACE OR SPRINGS.

View of A-cover side of phone (disassembled)



The above photo illustrates the A-cover side of the phone disassembled down to the component level.

View of phone without the A-cover



Above is the remainder of the phone once the A-cover has been removed.

9 Remove the screws from LCD assembly/PWB assembly.



Using a T6 screwdriver, remove the two 10mm screws from the top of the phone.

10. Remove the PWB assembly/LCD assembly from the D-cover assembly.



The PWB/LCD assembly can be lifted out of the D-cover assembly, as shown.

PWB/LCD assemblies and D-cover assembly



Shown above are the two pieces, with screws removed.

11 Loosen and remove microphone assembly from the PWB/LCD assembly.





Using the fiberglass soldering aid, loosen the microphone assembly first from one side and then work it gently out from the opposite side.

12. Remove LCD assembly.



Remove the LCD assembly from the PWB by pushing outward at the bottom of the metal snap engagement tab on the metal frame. Once one side is disengaged, it should be possible to rotate the LCD assembly completely off of the PWB. Be careful *not* to touch or loosen the elastomer connector between the LCD assembly and the PWB (not shown).

Disassembled PWB/LCD assembly



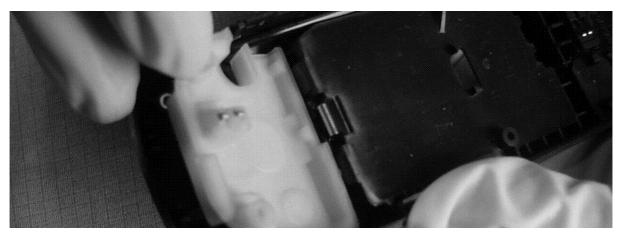
Above is the PWB/LCD assembly, disassembled down to the components.

D-cover assembly



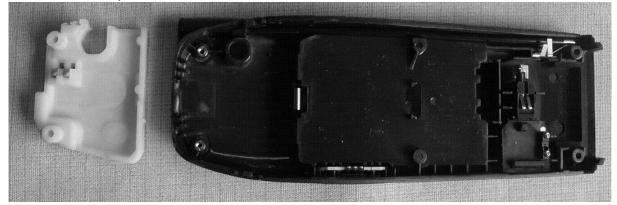
Shown above is the D-cover assembly with the internal antenna.

13. Remove antenna.



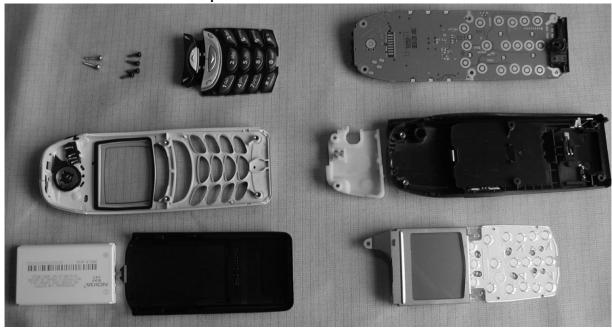
Lift the screw boss at the top edge of the internal antenna to pop the antenna out of the D-cover assembly.

D-cover assembly with internal antenna removed



The D-cover assembly, along with the internal antenna, is illustrated above.

6385 Disassembled to the Component Level



PAMS Technical Documentation

8. Disassembly

