H1900 Replacement Backup Battery Guide
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Introduction

This is a step by step guide to replacing your back up battery for the H1900 series iPAQ. Please be aware this procedure involves opening the back of the unit, thus voiding your HP warranty.

Required Tools

A Torx 6 Screwdriver (available in the tools section of the website)
A 1900 series backup battery (available in the batteries section under the 1900 Series)
A small jewellers cross head screwdriver

Optional Tools

A flat headed screwdriver (for levering away the back case)

Now you have the backup battery, Torx and crosshead screwdrivers required to complete this replacement, begin by following the simple 11 steps.

Step One

It is advisable before undertaking this procedure to back up any important data held on your iPAQ. After doing so you are ready to begin. The SD card / SD filler card, stylus and battery all have to be removed. To remove the battery use the battery cover release button on the left of the iPAQ (*circled*), bring the button up to release the battery cover, and also remove the battery – which should simply lift out.

Step Two

Next, unscrew the five screws holding the back case together, there are two screws at the top of the unit, two at the bottom and the fifth is located to the right of the battery area, beneath the warranty sticker.

Step Three

Once the screws have been removed you will need to pop the clips that hold the front and back cases together. Starting in the top right, use your screwdriver to prise the top right section off, and moving downwards use your nails or screwdriver to continue popping the clips away from the case until the back case is easily removed.
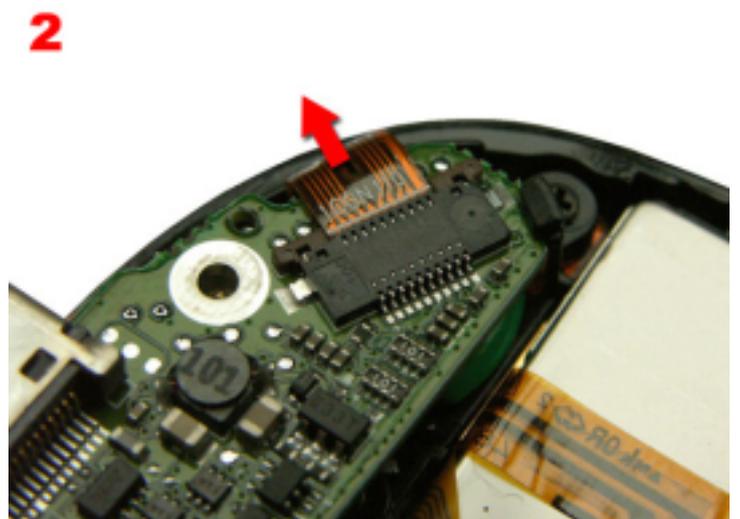
Step Four

You now have access to the inside of your unit. Using a small cross head screwdriver remove the two black screws *(see circled)* in the top left, and bottom right which hold the main board to the body.
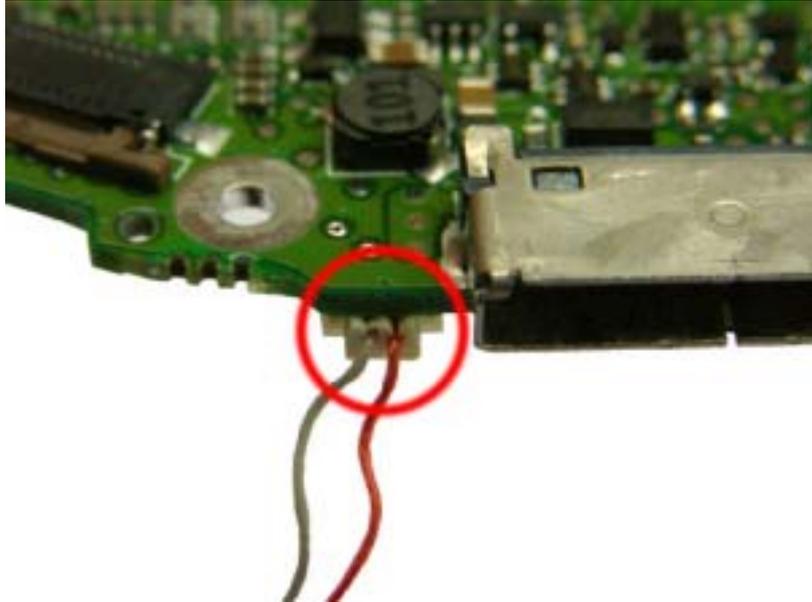

Step Five

With these screws removed you now need to detach any components connected to the mainboard, detach the screen cable *(see image one)* which should simply lift up and away from the connector, then detach the action button cable by bringing down the brown clips, and then pulling the cable away from the connector *(see image two)*
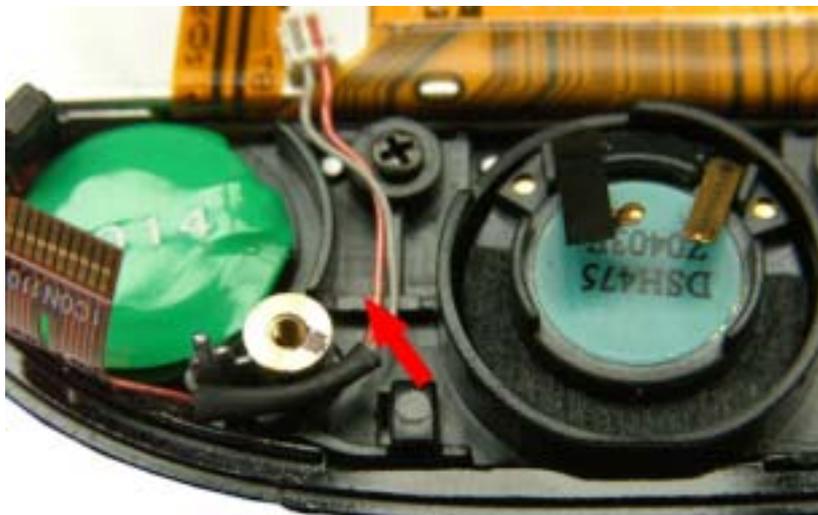
Step Six

With these components detached you are ready for the next step. Without removing the board fully you should be able to detach the old backup battery connector located at the reverse of the main board, which is located at the bottom of the main board (*see image below*). In order to access this you are required to lift away the main board. This is done by pulling the board slightly downwards, and then away. Once the board has been lifted up enough you will be able to detach this lead by pulling the lead head away from the connector.
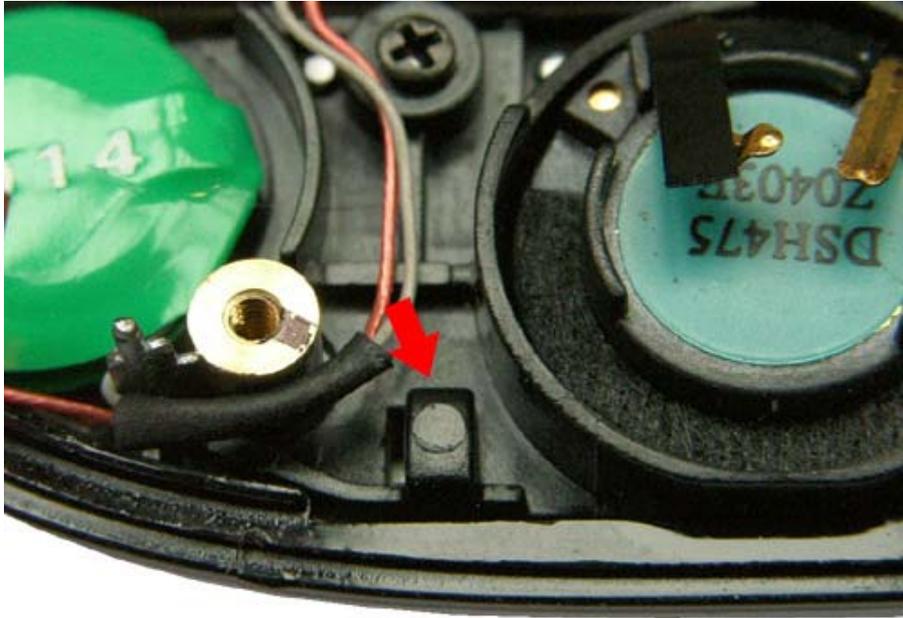

Step Seven

In order to have sufficient room to complete this replacement you should now put the main board aside for now. You can now replace the backup battery. The battery leads should be held under a black lead clip, to release the lead carefully pull the leads in the direction indicated below, these leads may be held close to the front plate so it advisable to push them against the front plate as you pull away. Once the leads are free you can remove the old backup battery by pulling it off its adhesive spot.
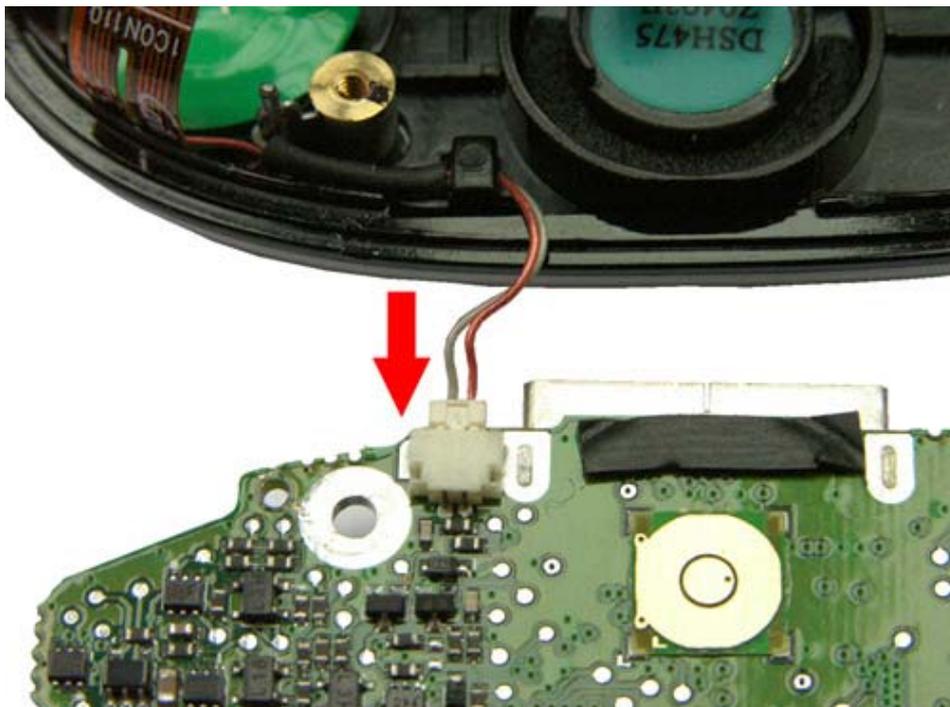
Step Eight

Attach your new battery in the same position using the adhesive spot. Carefully push the leads underneath the black lead clip (*this may be fiddly, it may be advisable to use your stylus or other tool to carefully tease it into position beneath the clip*). This clip works to stop the cables getting caught and damaged in between the mainboard or case.
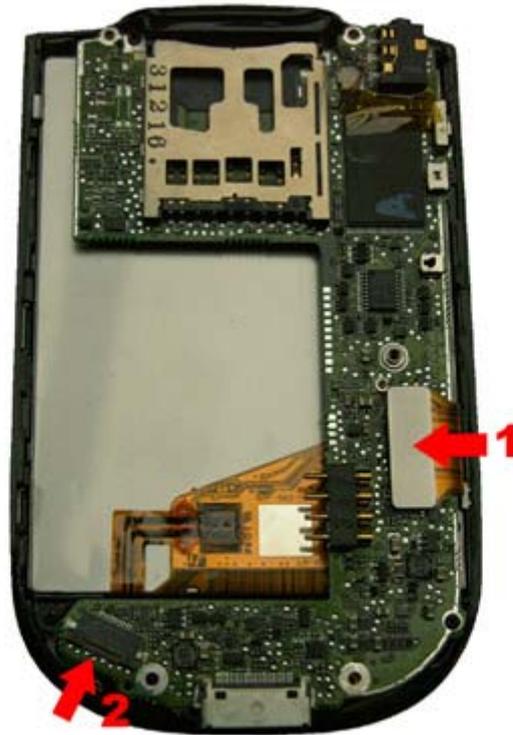

Step Nine

You are now required to reattach the backup battery cable into the connector, which should easily clip back in to the connector located on the reverse of the mainboard (*See image below*). With this now attached you are now ready to reassemble your unit.

Step Ten

Though a simple step you should take some time to be sure that all components are reattached and in place. Reattach the main board by leading it into position by putting the top section into position first – making sure that the black rubber-bound speaker is in position and that any clips and screw holes are aligned. Once you are sure this is safely aligned reattach the two cables – the screen cable (*see image, reference number one*) and action button cable (*see image, reference number two*) are both reattached. Once the board is perfectly aligned, with all components connected simply put back in the two black screws (*for reference use Step Four*)

Step Eleven

With all of this connected, simply pop the case back on and put in the five screws that hold the back case on, affix your battery, battery cover and stylus. *Et voila*, you have successfully replaced your backup battery! With this completed charge your iPAQ for 24 hours to allow both the new backup battery and main battery to recalibrate. After this your unit is ready to be used.

Revision History

Version 1.2 13:58 PM 30/12/06