

How to replace your iPhone 4 Battery Cover Housing glass

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How to replace your iPhone 4 Battery Cover Housing glass, Now you can view this iPhone 4 Battery Cover Housing disassembly instruction manual. We stripped down the iPhone 4 to its basic components. Give your Apple iPhone 4th Generation a new face.

How to replace your iPhone 4 Battery Cover Housing glass, Now you can view this iPhone 4 Battery Cover Housing disassembly instruction manual. We stripped down the iPhone 4 to its basic components. Apple definitely spent time giving the phone a thorough makeover, meticulously changing every little facet. We are happy to splay the fruits of their labor for your enjoyment!

Give your Apple iPhone 4th Generation a whole new face. You can use the following install instruction to replace your old iPhone 4 Back cover Housing faceplate of Apple iPhone 4 with new iPhone 4G Housing Cover, you can buy the iPhone 4 Housing Case Replacement Parts through http://www.ecaseshop.com/iphone-housing-accessories-c-5_37_70_73.html

We have confirmed that the iPhone's A4 processor has 512 MB RAM, unlike the iPad's more limited 256 MB. This decision may have been made fairly late in Apple's development cycle, because early leaked prototype phones only had 256 MB.

Step 1 iPhone 4 Teardown

??The world's most wanted device is now in the hands of the world's most foremost tinkerers!

??The all-new iPhone 4 features upgrades from the 3GS including:

- o A redesigned glass & stainless steel body that shaves 3.5 mm off the width and is 3 mm thinner than the 3GS.
- o Choice of black or white coloring
- o Retina display featuring twice the pixel density of the 3GS
- o iOS 4 for multi-tasking
- o 5 MP, 720p capturing rear-facing and VGA front-facing cameras

Step 2

??The iPhone 4's design is a dramatic departure from the aluminum and plastic drenched days that have plagued the iPhone in the past.

??The rugged stainless steel bezels around the iPhone 4's perimeter double as both structural supports and antennas to boost reception.

- o Only time will tell if they absorb shock as poorly as the iPhone 3GS.

??Shameless plug:

- o We are a repair manual for every thing. Our goal is to show everyone how to fix all their own stuff!
- o We also sell useful things, like Mac parts, iPad parts, and tool.

Step 3

??An iPhone first: Interestingly enough, the storage capacity is not etched on the outer case of the iPhone 4.

??We'd expect our 32 GB iPhone 4 to fulfill its promise and give us, well, 32 GB. Unfortunately it has an actual capacity of 29.06 GB.

- o Given the fact that 301 MB of "other" data is being stored in memory, this leaves the user with 28.77 GB of free space.

??In terms of OS, the iPhone 4 comes preinstalled with the newly released iOS 4, build 8A293.

??The iPhone 4 is Model A1332. Interestingly, that's a lower number than the A1337 iPad 3G.

Step 4

??Like the iPhone 3G and 3GS, there are two silver Phillips #00 screws at the bottom of the phone.

??In a departure from the design of the 3G and 3GS, removing the screws releases the rear case, not the front glass.

??This design makes switching out the rear panel trivial, but unfortunately means that replacing the iPhone 4 front panel will likely be rather challenging.

Step 5

??Removing rear panel gives us a pretty good look at the iPhone 4's innards.

??Holy battery! The inside of this thing is dominated by its juice-provider.

??It's pretty apparent that real estate was very limited inside the iPhone 4's 115.2 x 58.6 x 9.3 mm footprint.

??You can also see pressure contact on the inner face of the rear panel for what appears to be an antenna.

Step 6

??Luckily, the battery can be easily removed once the back panel assembly is out of the way.

??The 3.7V 1420 mAh Li-Polymer battery allows for up to 7 hours of talk time on 3G or up to 14 hours on 2G.

??The battery connector is different than the one in the 3G and 3GS. Fortunately, the battery is not soldered to the logic board. This will make battery replacement on the iPhone 4 fairly easy to accomplish.

??The plastic pull tab for the battery says "Authorized Service Provider Only."

Step 7

??No EMI shield will stand between us and the innards of this iPhone 4!

??The EMI shield comes off after five screws are removed to reveal lots of important connectors.

Step 8

??The logic board is heavily embedded under wires and EMI shields.

??While we're not too busy, let's talk RAM. Unlike the iPhone 3GS and iPad, which are both equipped with 256 MB, the iPhone 4 has a whopping 512 MB!

??The increase in RAM allows for a larger amount of cached data allowing for a smoother and faster user experience.

Step 9

??Hiding in the corner is the iPhone 4's vibrator motor, which...well...vibrates.

Step 10

??Removing one of the many connectors on the logic board.

??In our brief usage, we did notice that the phone is considerably warmer on the right side. This makes sense, as the logic board is located entirely along the right side of the phone.

Step 11

??Behold a beauty in the iPhone 4: a rear-facing 5 MP camera with 720p video at 30 FPS, tap to focus feature, and LED flash.

??This is a huge upgrade from the 3.2 MP camera found in the iPhone 3GS.

Step 12

??Removing the lower antenna/speaker enclosure from the bottom of the phone.

??The improved audio chamber aids in clarifying sounds leaving the iPhone, including calls via speakerphone as well as music played through the speaker inside this housing.

??Apple hasn't made taking the iPhone 4 apart very hard so far: no 5-point Torx bits or fragile clips to be seen.

Step 13

??Removing the logic board.

??The unusual shape and small size of the logic board shows just how costly real estate is inside this powerhouse of a phone.

Step 14

??Apple has integrated the UMTS, GSM, GPS, Wi-Fi, and Bluetooth antennas into the stainless steel inner frame.

??The dual purpose stainless steel inner frame/antenna assembly addresses possibly the two biggest flaws

concerning previous iterations of the iPhone: continuous dropped calls and lack of reception.

??Apple has gone a step further and tuned the phone to utilize whichever network band is less congested or has the least interference for the best signal quality, regardless of the actual signal strength. Early reports suggest this feature, while buggy in its early stages, will greatly improve the phone's reliability on AT&T's fragile network.

Step 15

??With the EMI shields off, we can get a look at what makes this beast roar.

??Lurking deep within the phone, the A4 processor, manufactured by Samsung, is the centralized unit that provides the iPhone 4 with the much needed computing power.

??Replacing the Samsung S5PC100 ARM A8 600 MHz CPU used in the 3GS, the new iPhone uses the ARM Cortex A8 core, much like its bigger sibling, the iPad. The iPad's A4 is clocked at 1 Ghz.

??The new Samsung Wave S8500 smartphone uses the same Cortex A8 core!

??Just to the left of the A4 package, the AGD1 is the new 3 axis gyroscope that we believe is designed and manufactured by ST Micro for Apple. The package marks on this device do not appear to be the currently available commercial part, L3G4200D. The commercial version of this gyroscope is yet to be released — Apple got first dibs on it.

Step 16

On the top of logic board:

- o Skyworks SKY77542 Tx–Rx iPAC™ FEM for Dual-Band GSM/GPRS: 880–915 MHz and 1710–1785 MHz bands.
- o Skyworks SKY77541 GSM/GRPS Front End Module
- o STMicro STM33DH 3-axis accelerometer
- o TriQuint TQM676091
- o 338S0626

Step 17

On the back:

- o Samsung K9PFG08 flash memory
- o Cirrus Logic 338S0589 audio codec (Apple branded). This is the same part as in the iPad.
- o AKM8975 - newest magnetic sensor that promises to improve the performance over the prior generation.
- o Texas Instruments 343S0499 Touch Screen Controller
- o 36MY1EE NOR and mobile DDR

Step 18

Wi-Fi, Bluetooth, and GPS are all provided by Broadcom and located beneath EMI shields on the front side of the board.

Broadcom BCM4329FKUBG 802.11n with Bluetooth 2.1 + EDR and FM receiver.

Detailed iPhone 4 Battery Cover Housing disassembly instruction manua:

<http://www.docstoc.com/docs/47053672/iPhone-4-battery-cover-housing-assembly-instruction-manual>

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