

NOKIA 105 PHONE – REVERSE ENGINEERING



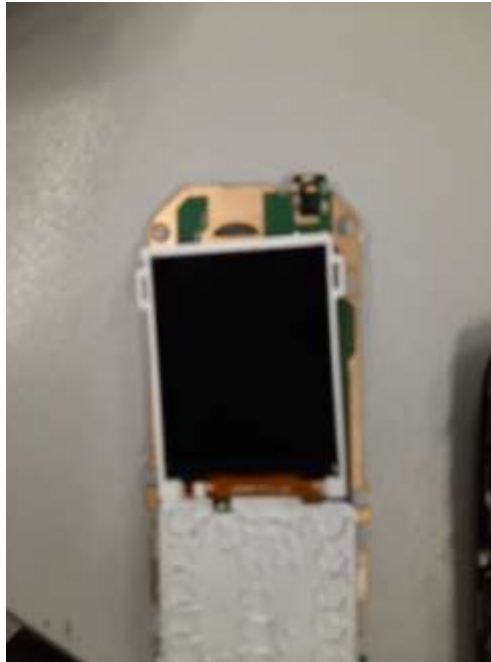
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Tools used:

- Micro-screwdriver

Screen:



The screen displays a UI to the user, allowing the user to easily interact with the phone, due to the simplicity that UIs provide. Screens also allow for more complex games to be played, such as Tetris, because the screen has a much greater resolution than a simple display.

Antenna cable:



The antenna cable allows the phone to communicate with radio towers, which allows it to play radio channels, as it can pick up their radio waves and convert it into sound.

Speaker:



The speaker allows the phone to convert byte-stored sound into actual sound, and then play the sound to the user, which means that sound effects can be added to games, and radio can be played, as the speaker then converts the radio waves into sound, and this is crucial for calling as well, as then the user can hear what the caller is saying, and can appropriately respond depending on what is said.

Microphone:



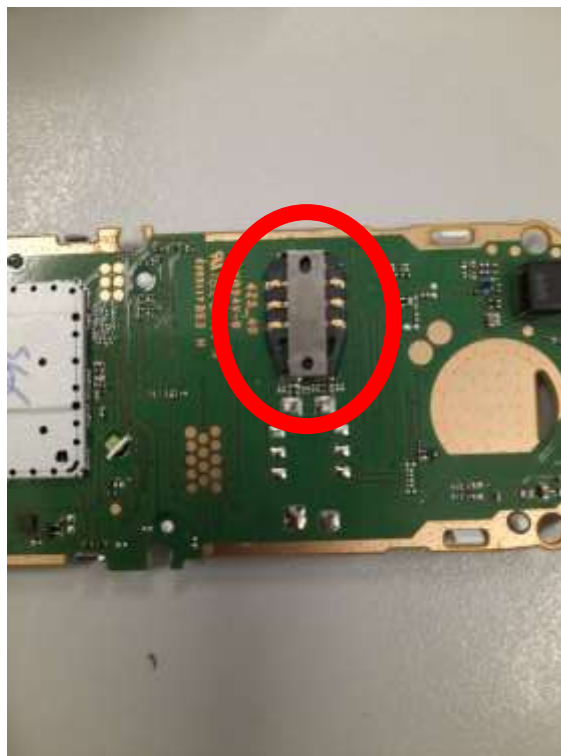
The microphone allows the user to give sound input to the phone, which can then be converted into bytes by the microphone, and then transferred. The microphone is crucial for handling voice calls, as it allows the user to speak to the caller.

Motherboard:



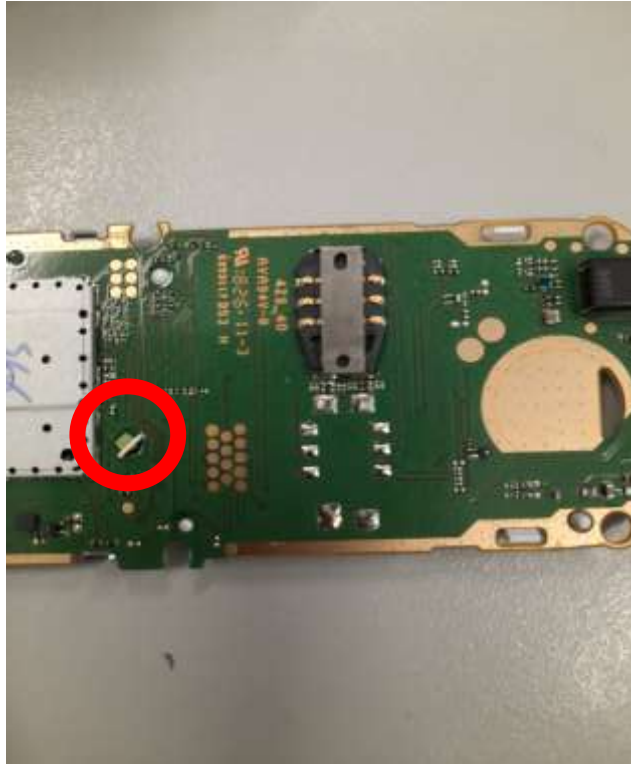
The motherboard is the heart of the phone, because it runs all of the processing that the phone does. This causes all of the apps to work, and for the phone to be able to execute any possible command, and without it, the phone would do nothing.

SIM card slot:



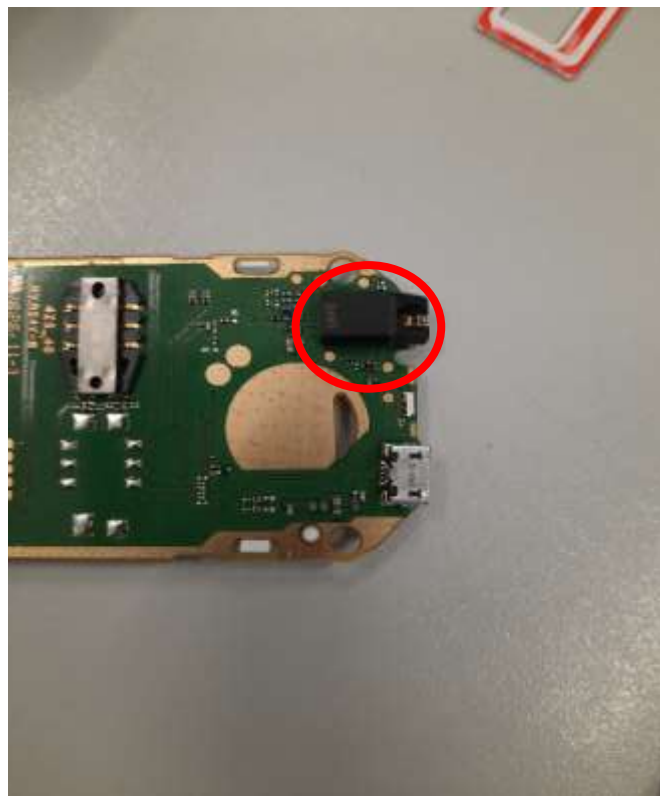
The SIM card slot allows the phone to use a SIM card, without which calling and messaging are not possible. This would make the phone practically useless, as it only has a small variety of games to play, and those are not the main function of the phone. The main function of the phone is communication, which required a SIM card and therefore a SIM card slot.

Keyboard backlight:



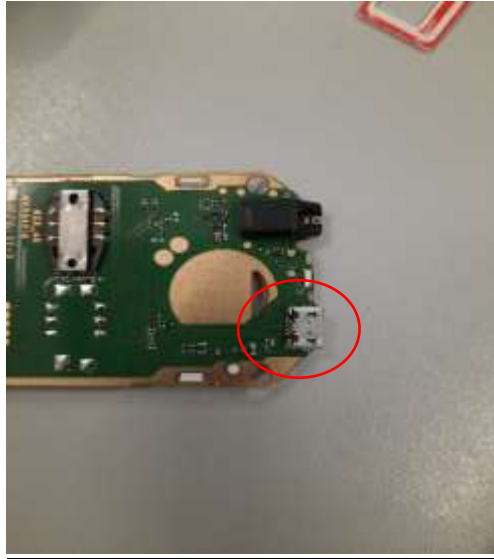
The keyboard backlight projects a light behind the keys, which have translucent text. As such, the keys of the phone seem to glow, and this helps for the visibility of the keys.

Headphone jack:



The headphone jack allows the user to plug in their headphones and listen via their headphones, or listen to radio, as the headphones act as an antenna.

Micro-USB Charging port:



The micro-USB charging port means that when the phone's battery runs out, the battery can be recharged using a micro-USB cable. This means that the phone's battery does not have to be replaced as soon as it runs out, because it can be refilled, decreasing consumer costs and increasing sustainability.

Flashlight:



The flashlight can be turned on by the user whenever they require light, increasing consumer convenience.