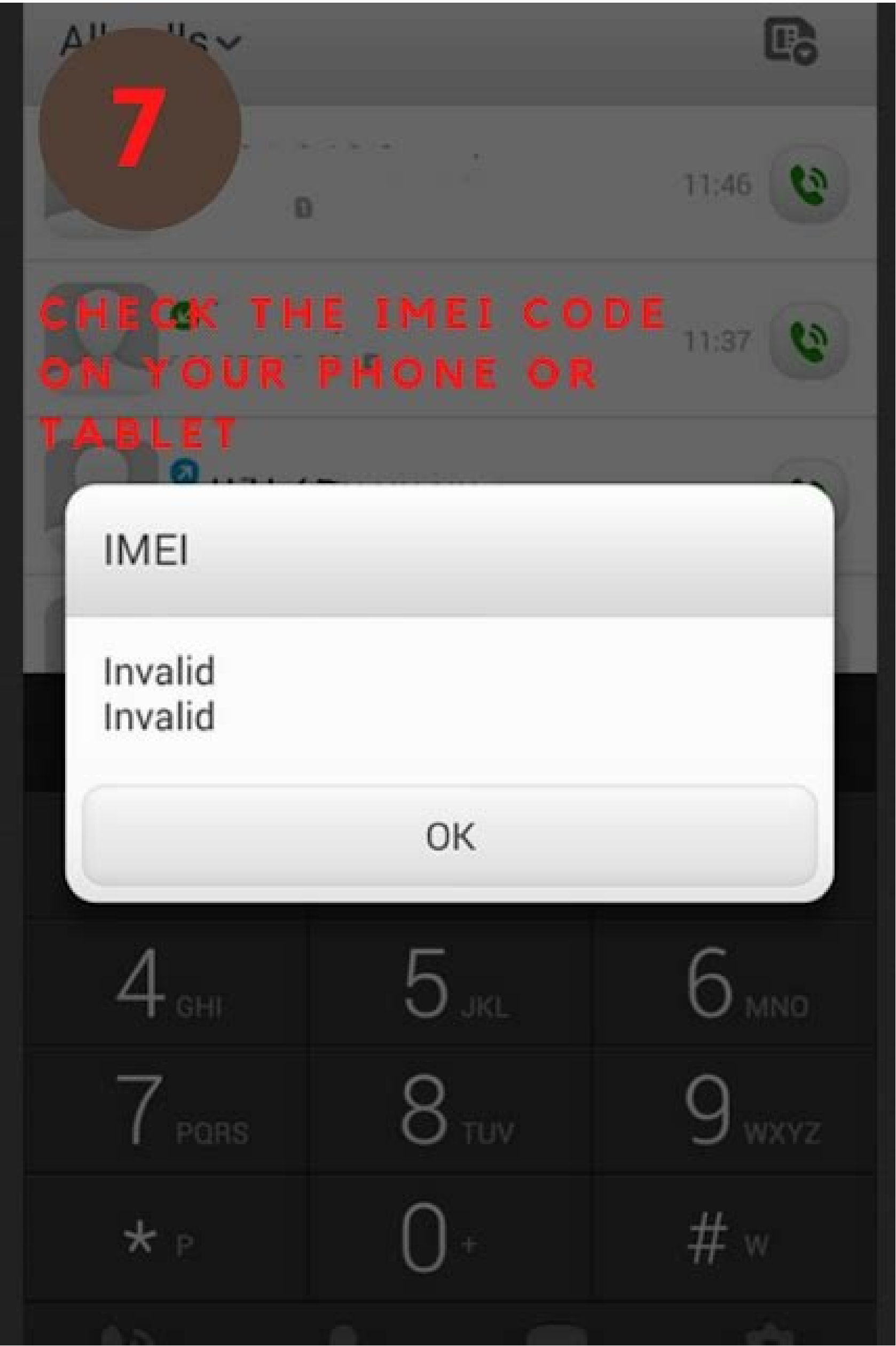
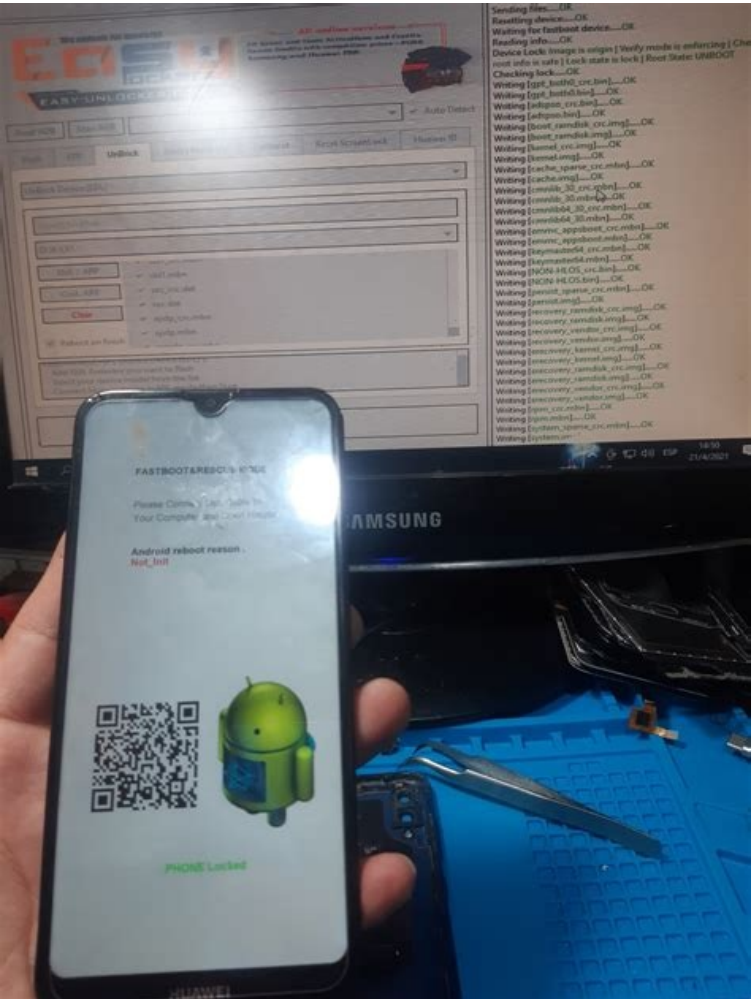


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The IMEI (International Mobile Equipment Identity) number is a unique set of 15 digits used on GSM phones to identify them. Because the SIM card is associated with the user and can be swapped from phone to phone, a method is needed to keep track of the hardware itself, and that's why the IMEI was developed. Math nerds will enjoy the way they are calculated – the first 14 digits are decided by the GSM association, and the final check digit is computed using what's called the Luhm Formula – crazy base-8 math that mere mortals like most of us don't understand, nor want to understand. You can see the IMEI of your Android phone by looking in settings > About phone if you're curious. (Or on the box if you still have it. Or under the battery or on the phone itself.What is this number used for? That's the real question, isn't it. Like the MEID number on CDMA phones (think Sprint and Verizon), the IMEI is used for network control. It's not very common, but your mobile operator can block a phone based on it's IMEI in cases where it's been reported stolen or someone didn't pay the bill. Because it's not easy to change the IMEI of your phone (and maybe even illegal – check your local laws) it's also used to keep track of phones that were involved in criminal activity, and the UK in particular has a handy database of phones used for these purposes. The IMEI number is also used to specify a phone for wiretapping by federal governments worldwide.On a lighter note, Android apps can also use your IMEI number. The app will declare that it has access to your personal information, and the IMEI can be used to keep track of the device in a remote database. This sounds pretty scary, but it's an easy way (though not necessarily the best way) for app developers to keep a settings database online for your phone, in their app. Let's say you mark a bunch of favorites in a wallpaper app. Those favorites are kept in a small database file online, and when you reconnect to the app it reads your IMEI number to find your preferences. Not an ideal method, but it's easy.One last thing – now that we know a little more about IMEI numbers, they will soon be changing to IMEISV numbers. The use-case scenarios are the same, but the data structure and method of calculation is different. An IMEISV gets rid of the check digit (and its complicated Luhm formulated calculation) in favor of two digits used for software version numbering. Like everything else in the mobile space, network identification changes rapidly.Check out the complete Android Dictionary[blockviews:article:liker_bespoke-block:13] By Robin Noelle i Jupiterimages/Photos.com/Getty Images When you purchase a phone from a cellular provider, it is locked into that company's service. You usually have to agree to a one- or two-year contract as well if the company provides you with a free or discounted phone. You can avoid this contract and freely switch between providers, as well as travel outside of the country on other networks, by unlocking your phone using the IMEI code. Locate the 15-digit IMEI code. This is sometimes printed on the phone under the battery. You can also sometimes find it in your phone's setting page or by entering a special code to get your phone to display the number on your screen. In many instances, this code is *#06# If you cannot locate the code, contact your current service provider and ask for the unlock code. Depending on the circumstances, they might just provide it for you. Often, if you are traveling outside of the U.S. or have completed your service contract, your cell phone provider will give you instructions on how to unlock your phone. Purchase the unlock code. You can cheaply purchase an unlock code by providing the IMEI code and your cell phone make and model to one of many online providers. For between \$5-15, you can receive an unlock code within an hour. Often this is the most convenient way to unlock your phone. Some retail providers may provide this service as well, but make sure that it is a company that offers plans from many cell phone providers and is not the retail location for a single provider, such as AT&T or T-Mobile, that will then want to sign you up to their plan. Download the software and unlock your phone yourself. You can find and download software to unlock a number of different phones online. See the resources section of this article for unlocking software and free unlock codes. By Zyon Silket i David Roth/Stockbyte/Getty Images There are multiple reasons you might need to obtain the IMEI number of your phone. It is equivalent to the serial number and it identifies the make and model of device you own. You may need to give this information to your insurance company to prove you owned the phone, you may need it to validate your warranty with the manufacturer or you may need for personal reasons. There are several ways to obtain the IMEI number without the phone. Look for the packaging box for the phone. The IMEI is printed on the outside of every box to help a sales rep expedite the process of setting up your wireless account. Find the contract you signed when you purchased the phone. If you did not sign a contract, look for the sales receipt for the phone. If you purchased it from a wireless dealer, the IMEI of the device is on the contract and/or receipt. This allows you provider to track warranty claims. Check your online account. Every major wireless provider offers you the ability to set up an online account to check your plan details, usage and gain assistance with better understanding how to use your device. The website also lists the type of device and the IMEI number associated with your account. Contact customer care. They maintain warranty records for every device you purchase. Advise the representative what model of phone you have and they can provide you with the IMEI number. By Steve McDonnell i Creatas/Creatas/Getty Images There are two primary mobile service provider technologies in use around the world: Code Division Multiple Access and Global System for Mobiles. A mobile phone is manufactured to support either CDMA or GSM, but not both. Phone manufacturers assign a unique identification number to each handset they produce according to the technology it supports. The GSM identification number is called an International Mobile Equipment Identification and CDMA's version is called an Electronic Serial Number. The division of mobile service technology in the United States is inverse to that seen in the rest of the world. Five of the seven largest mobile service providers in the U.S. use the CDMA technology: Verizon, Sprint, MetroPCS, Cricket and U.S. Cellular. The remaining two providers, AT&T and T-Mobile, use GSM. Outside the U.S., more than 80 percent of carriers use GSM, giving it about a 73 percent global market share. The IMEI number on a GSM network is associated with a particular mobile device and does not identify an individual subscriber. Instead of associating subscribers with IMEI numbers, GSM uses a Subscriber Identity Module card to store a customer's information. When a customer wants to switch phones on a GSM network, he can simply remove the SIM card from one device, insert it into another device and begin making calls. CDMA does not use a SIM card. As a result, an ESN on a CDMA network is associated with both a device and a customer. When a customer activates new service or switches phones, the mobile service provider must associate her account with the new ESN before she can start making calls. If your mobile phone is lost or stolen and you report it to your mobile service carrier, a carrier using CDMA can flag the ESN as stolen and prevent anyone from using your account until you switch to a new phone. Mobile service providers who use CDMA can also deny access to your phone if you haven't paid your bill by blocking the ESN on their networks. Prior to 2012, GSM technology in the U.S. enabled a service provider to block a subscriber's account by the information stored on the SIM card, but did not enable a carrier to block a phone by IMEI number. In response to pressure from the U.S. government to take a more active role in deterring mobile phone theft, AT&T modified its GSM system in the U.S. in 2012 to be able to block a phone by IMEI number. T-Mobile completed its modification in early 2013. At the government's request, the seven largest mobile service providers agreed to create a database of stolen IMEI numbers and ESNs that can be shared among all providers to prevent a thief from using a stolen phone on a different provider's network. As of 2013, AT&T and T-Mobile share a single IMEI block list. The Fairphone 4 is an Android smartphone that begs to be dismantled.Peel off the back cover with your fingernail, and you'll find colorful patterns and shapes around the interior along with a slogan: "Yours to open. Yours to keep." Look closer, and you'll see that each component is held down with only small Phillips screws, facilitating simple repairs. Fairphone says it will cover those components with a five-year warranty and provide basic software updates through 2025.This is a radical way to build a smartphone, and the Fairphone 4, which costs 579 pounds (about \$653), is the company's highest-end model yet. (Fairphone has no plans to release it in the U.S.) But while the phone succeeds as a statement on sustainability, it's full of trade-offs as a product, with too many little issues you won't experience with other phones at similar prices.[Photo: Jared Newman]Still, those issues have less to do with the Fairphone 4's repairable nature than with Fairphone's status as a small phone maker with limited resources and buying power. The Fairphone 4 proves that easy-to-repair phones are possible, but they won't be truly great until bigger companies start taking the idea seriously.The Fairphone 4's most obvious repair-related concession is its size. Its 6.3-inch display is not unusual for a smartphone, but at 0.41 inches thick, it's about 30% thicker than both an iPhone 13 and my Pixel 4a 5G, and it feels hefty when you pick it up. Removing and reattaching the screen is shockingly easy—it took me about five minutes—but the display's mounting plate and lack of adhesive add bulk.The phone's aesthetic compromises seemed like a fair trade-off to me. I'm also willing to accept an easy-to-repair phone that's merely splash resistant instead of fully waterproof. I can't remember ever dropping my phone into a body of water, and even waterproof phones can lose their protective seals, endangering them in the pool.Still, I had a hard time coping with other downsides that don't stem directly from the repairable design.Consider, for instance, the camera, which is supposed to be the Fairphone 4's biggest improvement over previous models. The rear camera system includes a pair of 48-megapixel sensors—one wide, one ultrawide—plus a 3D time-of-flight sensor to assist with autofocus. While that may sound competitive with other midrange smartphones, in practice the camera has a laggy shutter and is prone to producing mediocre photos.[Photo: courtesy of Fairphone]When I took pictures of myself through the rear camera, light through a nearby window gave one side of my face a washed-out appearance, and the stubble on my face came out blurry. With outdoor photos on an overcast day, the Fairphone 4 failed to capture any of the cloud detail picked up by my Pixel 4a 5G, showing a white sky instead. The laggy shutter also caused me to miss capturing some moments of my kids, as the camera didn't fire fast enough.Fairphone has little chance of ever competing with Apple, Google, or Samsung on the computational photography front.Fairphone says it's working on camera improvements through software and firmware updates, but therein lies the issue: Building an Android phone isn't simply about throwing a bunch of components into a case and loading an operating system. Phone makers must put considerable effort into refining and optimizing the software, often in conjunction with component makers such as Qualcomm. That's a tall order for a small company like Fairphone, which has little chance of ever competing with Apple, Google, or Samsung on the computational photography front.The camera wasn't the only area in need of improvement. The phone's balky palm rejection made one-handed typing nearly impossible, and haptic feedback was so laggy and unsatisfying I decided to turn it off entirely. Even the simple act of scrolling through apps felt slightly more sluggish than both the Pixel 4a 5G and pretty much every iPhone I've ever used.[Photo: courtesy of Fairphone]In terms of hardware, I also wasn't a fan of the side-mounted fingerprint reader, which requires pressing the power button to activate and is neither as fast nor convenient as rear or in-display readers. The LCD display, meanwhile, is a step down from the OLED screens that are increasingly common on midrange and high-end phones. It doesn't provide the greatest viewing angles, and it seems to fade out slightly around the edges of the screen.The whole experience reminded me of my time with another boutique phone, the keyboard-equipped Fxtec Pro 1. While that phone didn't have the same sustainable focus, it faced similar challenges with camera and software optimization, and it couldn't get state-of-the-art components due to its status as a small-time phone maker. In both cases, I was eager to get back to using my regular iPhone or Android phone.Despite all of my complaints, I appreciate what Fairphone is doing and believe folks who value sustainable design above all else may be able to tolerate its compromises. Fairphone also deserves praise for its work in using recycled materials and pushing for fair working conditions in the supply chain.But using the Fairphone 4 mostly made me wish other companies—ones with more resources to throw at building better phones—were more committed to easy repairs.Earlier this month, Apple announced that it will sell replacement screens, batteries, and other parts directly to consumers, starting with the iPhone and eventually moving to other products. It's a nice gesture, but it doesn't make the repair procedure any easier given the adhesive and specialized screws holding everything together.[Photo: courtesy of Fairphone]Meanwhile, on the Android side, major phone makers have largely abandoned the removable rear panels that once made battery replacements easy, even on phones with plastic backs like the Pixel 4a 5G.Moves like the one Apple made this week show that the industry is starting to take reparability more seriously as consumers and regulators demand it. But the Fairphone 4, for all its faults, shows how much further they have to go.

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