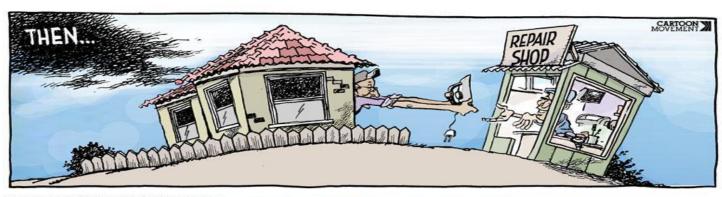


iFixit.com @kwiens











### Jura Oval Head Tool - How to Open Jura Coffee Machine

Our Price: \$14.99 SALE: \$11.99

Availability: In Stock

This product qualifies for FREE SHIPPING

Shipping Time: Usually Ships in 24 Hours

Product Code: 10542

Otv:

**-** 1 **+** 





If you're told that your warranty was voided or that it will be voided because of independent repair, we want to hear about it. Report it to the FTC at ReportFraud.ftc.gov.

### □ TOPICS

### Los Angeles Times

START TRIAL 10 FREE wks

Tammie Jo Shults, who calmly landed Southwest Flight 1380, broke barriers as a fighter pilot



Attention women: Your choice of blood pressure medicine may affect your risk of pancreatic...



East Bay fault is 'tect bomb,' more da Andreas, new s

BUSINESS

LA TIMES

Those stickers warning that repairs will void your warranty are nonsense, FTC says



By WASHINGTON POST APR 11, 2018 | 8:45 AM









# Apple AirPods Pro





# TEARDOWN











### **Final Thoughts**



While theoretically semi-serviceable, the non-modular, glued-together design and lack of replacement parts makes repair both impractical and uneconomical.





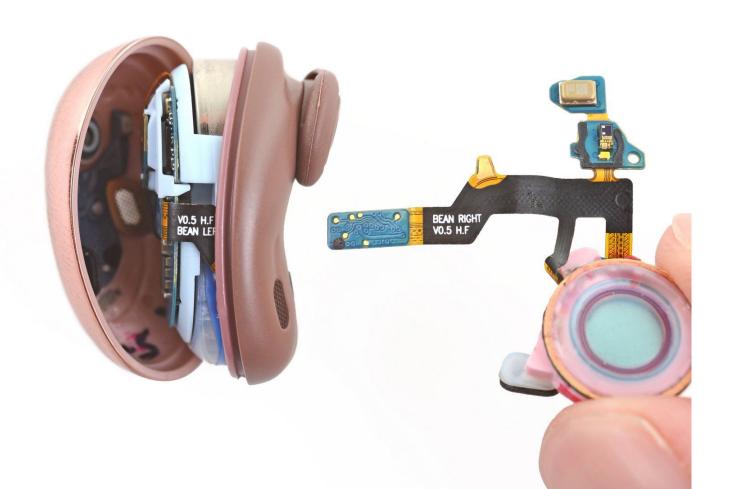
### AirPods Are a Tragedy

Apple claims that AirPods are building a "wireless future." Many people think they're a symbol of disposable wealth. The truth is bleaker.

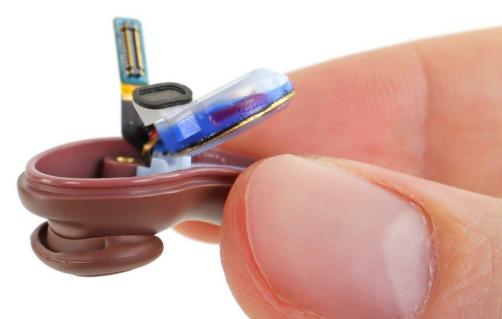
By Caroline Haskins May 6 2019, 6:36am Share Tweet











#### **Final Thoughts**

- All enclosures are held together with clips instead of glue, allowing for non-destructive opening procedures.
- Disassembly can be accomplished with common tools and a Phillips screwdriver.
- All batteries are easily accessible and replaceable.
- Most other major components (circuit boards, speaker drivers, etc.) are relatively modular and can be replaced independently.
- Adhesive is used to keep many of the internal components together, though it is not excessive and can be reused for reassembly.
- Careful prying is required throughout to separate components without tearing fragile cables or otherwise damaging the buds.

### Repairability Score



Repairability 8 out of 10 (10 is easiest to repair)



### **NEWS**

Home | US Election | Coronavirus | Video | World | US & Canada | UK | Business | Tech | Science | Stories

# Electric goods 'should have repairability rating'

By Justin Parkinson Political reporter, BBC News

3 days ago



The government must look at forcing manufacturers to put "repairability" scores on electric devices, opposition parties have said.

### Label

### Colour corresponds to level of reparability in 2 point intervals











#### Randomized controlled trials with 140k consumers

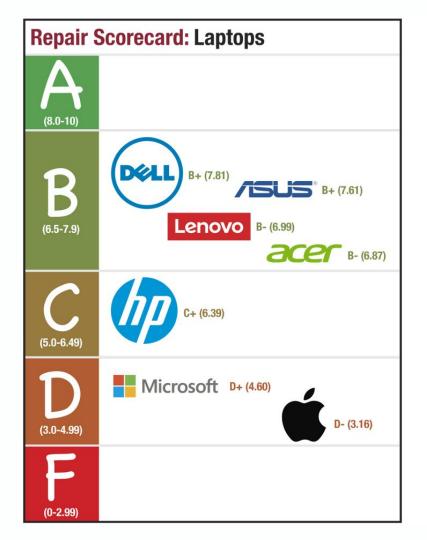
Effect of 2 designs compared to no score or no visual

### Importance of mandatory label

- Average score of laptops in trial: 5,4/10
- Tendency to purchase devices without score

 $\frac{\text{https://www.modernisation.gouv.fr/nos-actions/les-sciences-comportementales/consommation-durable-la-ditp-mobilise-ses-equipes-en-sciences-comportementales-pour-tester-laftichage-dun-indice-de-reparabilite}{\text{https://www.modernisation.gouv.fr/nos-actions/les-sciences-comportementales/consommation-durable-la-ditp-mobilise-ses-equipes-en-sciences-comportementales-pour-tester-laftichage-dun-indice-de-reparabilite}$ 









### **Great Manufacturers Enable Repair**



- Build **brand loyalty** for products with quality, **repairable design**
- Engage with enthusiastic customers by building a community around free online service manuals
- Gain valuable product design feedback directly from customers
- Increase reverse revenue streams by selling parts to consumers and independent service centers

## **Consumers Want Fixable Tech**

On behalf of Samsung, OpinionWay investigated how the French repairability index has influenced consumer attitudes and behaviour since its introduction January 1, 2021.

### Key findings:

- 83% say that they try to repair or have repaired their faulty devices instead of replacing them immediately.
- **54**% of those try to fix it themselves or with help from friends/family.
- Only **29**% leave the repair to a professional service.
- 71% of French have heard about the index.
- 80% of >50 y/o, but only 52% of 18-25 y/o have heard about it.
- 86% say that the index impacts their purchasing behaviour.
- 80% would even give up their favorite brand for a more repairable product.





# An Analysis of Lithium-ion Battery Fires in Waste Management and Recycling

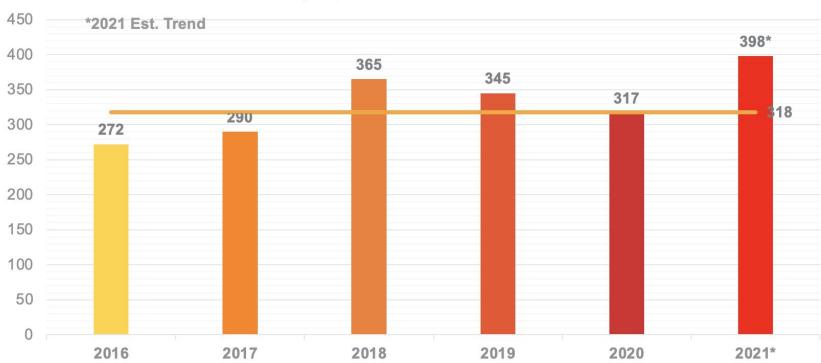
July 2021 Office of Resource Conservation and Recovery EPA 530-R-21-002

# WASTE & RECYCLING FACILITY FIRES US & CANADA 2016-2021\* VS. AVERAGE



Publically Reported Fire Incidents

—Ave '16-'20



Source: Ryan Fogelman, rfogelman@firerover.com





#### The New York Times

**OPINION** 

# It's Your iPhone. Why Can't You Fix It Yourself?

When the tools of modern life stop working, people should be able to shop for the best price on repairs.

April 6, 2019



#### Grace Heejung Kim

#### By The Editorial Board

The editorial board represents the opinions of the board, its editor and the publisher. It is separate from the newsroom and the Op-Ed section.

A giant John Deere tractor and a pocket-size Apple iPhone have something important in common: The cost of repairing either one is too high.

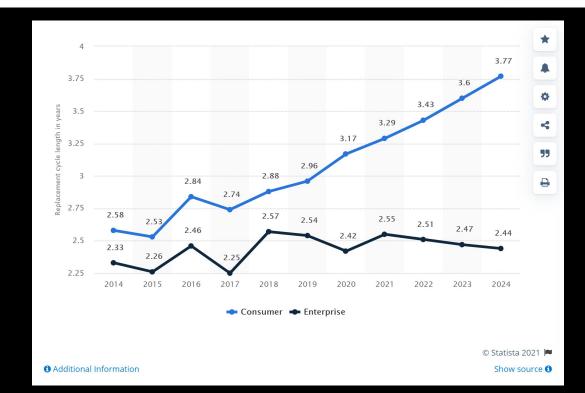
The two companies, and many of their peers, use a variety of aggressive tactics, including electronic locks and restrictive warranties, to push customers with broken equipment to seek help from their authorized repair facilities — or to give up and buy a replacement.

## Right to Repair Legislation

Parts + Tools + Know-how

# Average lifespan (replacement cycle length) of smartphones in the United States from 2014 to 2024

(in years)



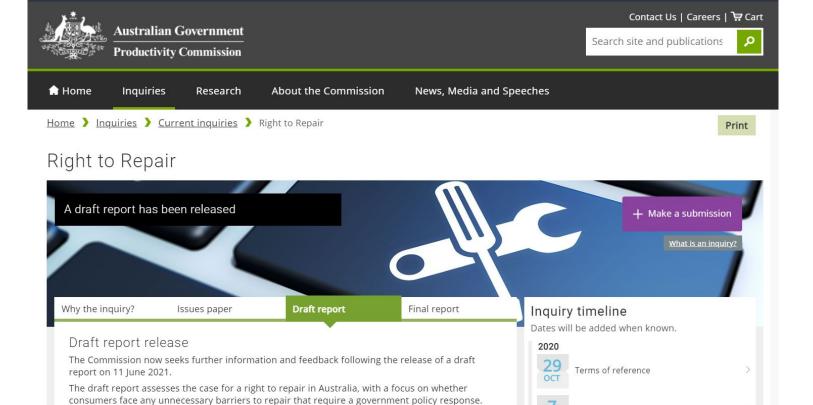
## **FAIRPHONE**



## The phone that cares for people and planet

Introducing the Fairphone 3, a phone for everyone who cares about how their products are made. It's got everything you'd expect from a great phone — and so much more. It improves the conditions of the people who make it and uses materials that are better for the planet. Because how it's made matters.

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Submissions are due by Friday 23 July 2021.

Submissions are due by Friday 23 July 2021

Read the draft report

Issues paper

Draft report

Initial submissions due

DEC 2021

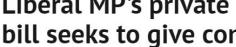
FEB

### NATIONAL\*POST



News / Canadian Politics / Canada







### Liberal MP's private member's bill seeks to give consumers 'right to repair' their smart devices

Bryan May's bill would update the Copyright Act to prohibit the use of so-called technological protection measures, or digital locks, to block repairs of devices

Anja Karadeglija

Feb 24, 2021 • February 25, 2021 • 3 minute read • D Join the conversation







In a landmark move, the European Parliament voted today to support consumers' Right to Repair. The resolution was adopted with 395 in favour and just 94 against, with 207 abstentions.

"By adopting this report, the European Parliament sent a clear message: harmonised mandatory labelling indicating durability and tackling premature obsolescence at EU level are the way forward," said Rapporteur David Cormand, MEP from France.

The vote calls for the EU Commission to "develop and introduce mandatory labelling, to provide clear, immediately visible and easy-to-understand information to consumers on the estimated lifetime and reparability of a product at the time of purchase."



### JRC Publications Repository

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#### Analysis and development of a scoring system for repair and upgrade of products

Abstract: As part of the implementation of the EU action plan for the Circular Economy, the European Commission has carried out a study for the analysis and development of a possible scoring system to inform about the ability to repair and upgrade products. The overall aims of the study, described in the present report, are:1) To develop a general approach for the assessment of the ability to repare/upgrade energy related products (ErP):2) To test the feasibility and types of results derived using the general approach on three specific product groups (Laptops, Vacuum Cleaners and Washing Machines). Building on the experience gained by CEN-CENELEC-JTC10 during the development of prEN 45554, a general framework has been proposed that provides technical guidance for the identification of most relevant aspects and priority parts for products on the market, as well as for scoring and aggregating different aspects of repair and upgrade. A limited number of technical parameters have been selected which cover design characteristics and relevant operational aspects related to the repair/upgrade of products. Purely economic parameters are out of the scope of this study but they are addressed indirectly by the selected parameters since these can have an influence on the cost of repair/upgrade operations. The assessment of products has been simplified by focusing, when relevant, on priority parts, to be defined on a product group basis taking into account aspects such as the frequency of failure/upgrade, the functional importance of parts, as well as qualitative information. The assessment framework is composed of:a) Pass/fail criteria that products have to fulfil in order to be considered as reparable/upgradable, and thus eligible









May 6, 2021 Filed under: <u>Tech News</u> Comments

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A just-issued report by the US Federal Trade Commission confirms that anti-repair actions by large companies are hurting small businesses, undermining your ownership rights, and hurting the planet. Of course, these are the very problems that we've been fighting for the past fifteen years—but it's validating to see US government confirmation of the market imbalance.

Nixing the Fix:
An FTC Report to
Congress on Repair
Restrictions



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LAUREN GOODE

GEAR JUL 9, 2021 10:05 AM

## Joe Biden Wants You to Be Able to Fix Your Own Damn iPhones

A sweeping new presidential directive includes, among other things, an initiative to secure consumers' right to repair their own devices.











# **Before I Can Fix This Tractor, We Have to Fix Copyright Law**

BY KYLE WIENS

JAN 13, 2016 · 8:57 AM



### National Right-to-Repair Bill Filed in Congress

The Fair Repair act would make it easier for everyone in America to fix their own stuff.



June 17, 2021, 8:58am Share Tweet Snap







On Thursday, Congressman Joseph Morelle (D-NY) filed national right-torepair legislation with Congress. The Fair Repair Act would require manufacturers to provide device owners and independent repair stores access to the tools, parts, and information they need to fix electronics. If it passed, people could fix their own stuff without having to return their stuff without going through the people who made it. Farmers could fix their own tractors and we could all more easily fix our own phones.

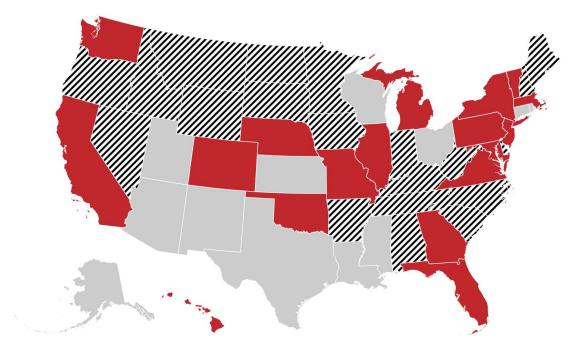


State of Repair is Motherboard's exploration of DIY culture, device repair, ownership, and the forces fighting to lock down access to the things you own.

SEE MORE +

Thus far, the overwhelming majority of right-to-repair legislation has been introduced at the state level; national legislation would obviously make implementation easier, because it would prevent different states from having different laws about electronics that all Americans own.

- Active Right to Repair Bill 2022
- **//** Right to Repair Bill Introduced Historical
- No Right to Repair











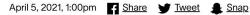
**TECH BY VICE** 

## **Colorado Denied Its** Citizens the Right-to-**Repair After Riveting Testimony**

Stories of environmental disaster and wheelchairs on fire weren't enough to move legislators to pass right-to-repair.



By Matthew Gault









#### MOTHERBOARD

TECH BY VICE

### Wheelchair Right to Repair Passes Colorado House

It still needs to move through the senate, but a bi-partisan bill that would let people fix their own wheelchairs has a good chance of becoming law.



March 30, 2022, 6:00am 3 Share 1 Tweet 1 Snap



#### GREGORY REC/PORTLAND PRESS HERALD VIA GETTY IMAGES

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There Are Too Many E-Scooters And Not Enough **People Repairing Them** 



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