



General

Displays

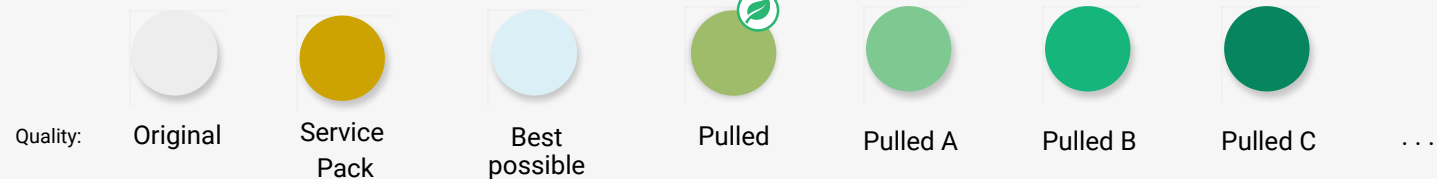
Batteries

Rear Covers

Overview of parts qualities and variants for Mobileparts.shop

This document provides a complete overview of the available parts, quality levels, and variants within Mobileparts.shop. It is designed to support repair professionals and buyers in selecting the right parts, with a focus on sustainability, pricing, and performance.

 Sustainable choice, saves CO₂



Quality definitions:

Original

Sourced directly from the manufacturer, identical to the part originally installed in the device. Guaranteed fit, performance, and quality. Ideal for those who want full assurance of compatibility and reliability.

In short: Direct via manufacturer of the device.

Best possible

Best possible quality of anything currently available on the market. It can be a mix of Factory standard, Pulled, Refurbished, or Compatible. This mostly concerns iPads, as the availability of iPad displays in China is very unstable. For MacBook back covers, 50% are graded as Pulled and 50% as Factory Standard. That's why we describe this product type as the best possible.

Pulled A

A rear cover graded as "Pulled A" may have a maximum of 2 small dots (1-2 mm), up to 15 countable scratches that can't be felt with a fingernail, and a maximum of 2 small colour differences (2-3 mm), with no paint loss.

Pulled C

A rear cover graded as "Pulled C" may show large dots or scuffs with paint loss (3+ mm), scratches that can be felt with a fingernail, noticeable colour differences, or more extensive paint loss.

Service Pack

Service Pack parts are original Apple batteries and displays and are technically the same products as the parts purchased directly from Apple. The only difference is the sourcing channel. Service Pack parts are sourced through Apple partners, rather than directly from Apple.

Because they are not purchased through our direct Apple distribution channel, we cannot sell them under the Genuine or Original designation, and they do not carry the Original/Genuine badge.

In short: Original Apple part via alternative sourcing channel

Pulled

Used displays, batteries and small parts which, qualitatively, are still good enough to be sold. They have been disassembled from original devices and have few to no scratches or signs of wear and tear. The displays and small parts often come from devices that are returned to providers after the subscription period has expired. In short, this quality can be considered as 'used Original'.

In short: Used original part removed from a device

Pulled B

A rear cover graded as "Pulled B" may show small dots with paint loss (1-2 mm), more than 15 countable scratches that cannot be felt with a fingernail, more than two small colour differences (1-2 mm) or a larger area of colour difference, as well as small areas of paint loss.



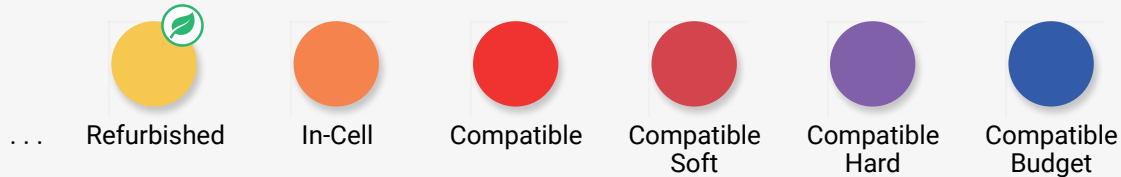
General

Displays

Batteries

Rear Covers

Part Qualities



Quality definitions:

● Refurbished

These displays, with a working LCD/OLED panel, are refurbished. The front glass is removed using a hot plate, and a new polarizer or touch panel is applied. In the case of old devices, the backlight is also replaced.

In short: Original display panel, refurbished with replacement components

● In-Cell

In-Cell displays are aftermarket LCD displays where the touch sensor is integrated into the LCD structure, resulting in a thinner display assembly. Compared with basic Compatible LCD displays, they generally offer better image quality, improved brightness and more consistent touch performance. Their resolution is comparable to Factory Standard displays, making In-Cell a high-quality and cost-effective alternative.

In short: Aftermarket LCD technology

● Compatible

Aftermarket (small) parts, where all components are high-quality copies and not original, genuine, or OEM. Our sourcing team rigorously tests these parts to ensure they meet our quality standards. Offering these alternatives provides our clients with more affordable options, helping them stay competitive in the market. This quality mainly applies to products such as tapes, batteries, housings, and similar parts.

● Compatible Soft

Aftermarket displays, where all components are aftermarket and not original/OEM/factory standard. Here, the manufacturer uses a Soft OLED screen instead of an LCD with backlight. These are the best Compatible displays available.

In short: Aftermarket flexible OLED

● Compatible Hard

Aftermarket displays made entirely from non-original components. Hard OLED displays use a rigid OLED panel instead of an LCD with backlight. They offer image quality comparable to Soft OLED displays at a more affordable price, but the rigid construction makes them more fragile and more susceptible to damage during installation or impact.

In short: Aftermarket rigid OLED

● Compatible Budget

Aftermarket displays, where all components are aftermarket and not original/OEM/factory standard. These displays function well at a low price but have lower image quality. This includes aspects such as differing LCD formats, lower resolution, lower brightness, and the absence of a 360-degree polarizer, among other differences.

In short: Entry-level aftermarket display



General

Displays

Batteries

Rear Covers

Available qualities per brand

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	Original	Factory std.	Pulled	Refurbished	In-cell	Compatible Soft OLED	Compatible Hard OLED	Compatible Budget	Available with small parts	Available without IC	Other factory versions available	Alternative part numbers possible
SAMSUNG	☐											✓
For Galaxy												✓
Apple	☐											
For iPhone/iPad												
JK Digital display												
oppo	☐											✓
For Oppo												
HUAWEI	☐											✓
For Huawei												
realme	☐											✓
For Realme												
mi xiaomi	☐											✓
For Xiaomi												
motorola	☐											✓
For Motorola												
SONY	☐											✓
For Sony												
NOKIA	☐											
For Nokia												
Google	☐											✓
For Google												
ONEPLUS	☐											✓
For OnePlus												
HONOR	☐											✓
For Honor												

Authorizations

SAMSUNG Authorized Distributorgenuine
Apple**Parts
Service****realme** Authorized Distributor **HUAWEI** Authorized Distributor

JK Digital display

 Authorized Distributor**SONY** Authorized Distributor**oppo** Authorized Distributor

**General**

Displays

Batteries

Rear Covers

3 brands and 8 qualities for iPhone/iPad parts**1. Genuine Apple parts**

Mobileparts.shop is proud to offer you the Apple Parts Service (APS). It is designed for repair professionals committed to the highest quality and customer satisfaction. APS provides genuine Apple parts sourced directly from Apple. This ensures reliable repairs that build trust and maximize the durability of iPhones, iPads and Mac products.

See below for the available part types for iPhone and iPad.

● Available

● Not available

Main category	Sub category	iPhone	iPad	MacBook	iMac / Mac mini / Mac Studio / Studio Display
Adhesive tape	Adhesive tape (back glass)	●	●		
	Adhesive tape (display)	●	●		
Audio (speaker/mic)	Ear speaker	●	●		
	Bottom speaker	●	●		
	Microphone	●	●		
Battery		●	●	●	
Buttons	Power button	●	●		
	Power button	●	●		
Taptic engine (Buzzer Vibra)		●	●		
Camera	Camera (front)	●	●		
	Camera (rear)	●	●		
Display		●	●	●	●
Dock connector		●	●		
Housing	Back Glass	●	●	●	●
	Middle frame	●	●		
SIM tray/reader		●	●		
Screws		●	●		
Other parts, please see web shop.				●	●



Recognizable by this badge

Please see the FAQ on the Apple Parts Service page at Mobileparts.shop for the full list of supported models.



General

Displays

Batteries

Rear Covers

2. For iPhone/iPad/MacBook, the premium alternative

We offer a range of high-quality alternative displays, including harvested and compatible options in seven quality grades for iPhone OLED models and five grades for LCD models. Our dedicated team of over 25 expert sourcers and testers in Shenzhen, China, ensures that we source and deliver only the best possible quality for your needs.

3. Official European distributor of JK displays

2Service is one of only two official European distributors providing the full range of JK displays compatible with iPhones. Experience trusted quality and reliable supply for all your display needs.

[General](#)[Displays](#)[Batteries](#)[Rear Covers](#)

Display Options

To enable repairers to complete repairs as easily and quickly as possible, we supply various display options. The description of each part should clearly indicate whether additional parts, adhesives, etc. are included or excluded.

Icon	Variant	Notes
	With small parts	Supplied with pre-assembled small parts for the display or middle frame.
	With battery	Display supplied with battery inserted.
	With camera unit	Display supplied with mounted camera unit.
	Without frame	Display supplied without frame.
	Frame pre-assembled	Pre-mounted display on frame (by 2Service).
	Without IC	Display supplied without IC (integrated circuit / chip), allowing faster transfer of the old one.
	With adhesive	Display supplied with adhesive already placed.
	Used	Part has status 'Used' after iOS18+ calibration.
	Unknown	Part has status 'Unknown' after iOS18+ calibration.
	Genuine	Part has status 'Genuine' after iOS18+ calibration.



General

Displays

Batteries

Rear Covers

Displays for iPhone after calibration

When replacing an iPhone screen, what iOS shows after installation can tell you a lot about the part used—whether it's original, used, or not verified. Since iOS18+, Apple has added new ways to track part authenticity, including labels like "Genuine" "Used," or the dreaded "Unknown".

Quality	iOS18+ message after calibration	End code in our SKU	Variants
Original	 'Genuine'		
Service Pack	 'Genuine'	...B8	
Pulled (with sensor flex)	 'Used'	...B4-FLEX	
Pulled*	 'Unknown' **	...B4	
Refurbished (with sensor flex)	 'Used'	...B2-FLEX	
Refurbished*	 'Unknown' **	...B2	...B2L = LG ...B2S = Sharp ...B2T = Toshiba
In-cell*	 'Unknown' **	...B5	
Compatible Soft (with sensor flex)	 'Used'	...B3-FLEX	
Compatible Soft*	 'Unknown' **	...B3	...B3L = LG ...B3S = Sharp ...B3T = Toshiba
Compatible Hard (with sensor flex)	 'Used'	...B7-FLEX	
Compatible Hard*	 'Unknown' **	...B7	
Compatible Budget*	 'Unknown' **	...B6	

* These qualities are not sourced from suppliers to meet iOS18+ calibration requirements.

** When the original display IC is transferred correctly, the replacement display may retain the expected part status and avoid an 'Unknown' display message, depending on the iPhone model, display type and iOS version.

...WI = without IC

...IC = with swappable IC



Displays for iPhone with small parts

The following parts are pre-assembled to the display.

● Included ● Not included

Model	LCD protection shield	Flex cushion	Speaker	Camera and ring
Up to iPhone 8 serie	●	●	●	●
Newer iPhone models	●	●	●	●



Display qualities for iPhone/iPad

 Sustainable choice, saves CO₂



★★★★★
Original



★★★★★



★★★★★



★★★★★



★★★★☆☆



★★★★☆☆



★★★★☆☆



★★★☆☆☆

Parts purchased from
Apple

Read more

Read more about
the genuine Apple
parts Service by
scanning the
QR-code.



Grading	Service Pack	Pulled	Refurbished	In-Cell	Compatible Soft	Compatible Hard	Compatible Budget
Condition	New	Used	New	New	New	New	New
Glass	Equivalent to original (OEM)	Same as original (OEM)	Aftermarket, best quality	Aftermarket, best quality	Aftermarket, best quality	Aftermarket, best quality	Aftermarket, basic quality
LCD/OLED panel	Equivalent to original (OEM)	Same as original (OEM)	Same as original (OEM)	Aftermarket, best quality. Digitizer attached to LCD	Aftermarket, best quality Soft-OLED.	Aftermarket, best quality Hard-OLED. Display is fragile	Aftermarket, basic quality
Flex cable	Equivalent to original (OEM)	Same as original (OEM)	Same as original (OEM)	Aftermarket, best quality	Aftermarket, best quality	Aftermarket, best quality	Aftermarket, basic quality
Quality control	3x own inspection	3x own inspection	3x own inspection	3x own inspection	3x own inspection	3x own inspection	3x own inspection
Dead pixels, lines, or backlight light spots	Never!	Never!	Never!	Never!	Never!	Never!	Never!
Warranty	Life time warranty	Life time warranty	Life time warranty	Life time warranty	Life time warranty	Life time warranty	Life time warranty
Backlight	Same as original	Original	Original	With backlight	Without backlight	Without backlight	With backlight
Brightness	Same as original. OLED: 800-1000 NIT, LCD: 500-700 NIT	Same as original. OLED: 800-1000 NIT, LCD: 500-700 NIT	Same as original. OLED: 800-1000 NIT, LCD: 500-700 NIT	600+ NIT	800+ NIT	700+ NIT	350-600 NIT
Fragility	Not fragile	Not fragile	Not fragile	Not fragile	Not fragile	Fragile	Not fragile
Pixel resolution	High resolution. Equal to original	High resolution. Same as original	High resolution. Same as original	Mid resolution. Almost equal to original	High resolution. Same as original	High resolution. Same as original	Low resolution. Lower than original
Polarizer	360° polarizer	360° polarizer	360° polarizer	360° polarizer	360° polarizer	360° polarizer	270° polarizer
Size	Same as original	Same as original	Same as original	Almost like original	LCD size, the same as the original	Almost like original	Biggest difference from original
Hue	Same as original	Same as original	Same as original	Close to original	Close to original	Close to original	Less than original, standard colours
Energy consumption	Same as original	Same as original	Same as original	High	Low	Low	Moderate
Price	€€€€€	€€€€€	€€€€	€€€	€€	€	€

[General](#)[Displays](#)[Batteries](#)[Rear Covers](#)

Display versions for iPhone

For certain iPhone LCD models, the original display manufacturer (LG, Sharp or Toshiba) can be relevant when selecting or refurbishing a replacement display. Matching the correct version helps ensure compatibility with the original display electronics and touch functionality.

Icon	Version	Notes
LG	LG	Display manufactured by LG.
TO	Toshiba	Display manufactured by Toshiba.
SH	Sharp	Display manufactured by Sharp.



IC swap compatibility & refresh rate by iPhone Model

Not all iPhone displays have the same specifications. Depending on the model and display quality, there are differences in IC swap compatibility and refresh rate (Hz). To make comparison easy, we've created a clear overview showing whether an IC swap is possible and which refresh rate applies to each iPhone model and display quality. The refresh rates shown below refer to the specifications of the replacement displays currently supplied by Mobileparts.shop and may differ from the original Apple display specification.

Model	In-Cell display		Compatible Soft OLED display		Compatible Hard OLED display		Compatible Budget display		● Yes	● No	● N/A
	IC swap?	Hz	IC swap?	Hz	IC swap?	Hz	IC swap?	Hz			
11	●		●	60	●		●	60			
11 Pro	●	60	●	60	●	60	●	60			
11 Pro Max	●	60	●	60	●	60	●	60			
12	●	60	●	60	●	60	●	60			
12 Mini	●	60	●		●	60	●	60			
12 Pro Max	●	60	●	60	●	60	●	60			
13	●	60	●	60	●	60	●	60			
13 Pro	●	90	●	120	●	60	●	60			
13 Pro max	●	90	●	120	●	60	●	60			
13 Mini	●	60	●		●	60	●	60			
14	●	60	●	60	●	60	●	60			
14 Plus	●	60	●	60	●	60	●	60			
14 Pro	●	90	●	120	●	60	●	60			
14 Pro Max	●	90	●	120	●	60	●	60			
15	●	60	●	60	●	60	●	60			
15 Plus	●	60	●	60	●	60	●	60			
15 Pro	●	90	●	120	●	60	●	60			
15 Pro Max	●	90	●	120	●	60	●	60			
16	●	60	●	60	●	60	●	60			
16 Plus	●	60	●	60	●	60	●	60			
16 Pro	●	90	●	120	●	60	●	60			
16 Pro Max	●	90	●	120	●	60	●	60			
16e	●	60	●	60	●	60	●	60			
17	●	90	●	120	●	60	●	60			
17e	●	60	●	60	●	60	●	60			
17 Pro	●	120	●	120	●	60	●	60			
17 Pro Max	●	120	●	120	●	60	●	60			
Air	●		●		●		●	60			



Battery types for iPhone/iPad

We supply 4 battery types for iPhone, iPad and Mac.

Icon	Variant	Notes	Genuine	Service Pack	Pulled	Compatible
	Normal battery	Our standard battery is a reliable choice for everyday use. It provides a seamless replacement for the original iPhone battery, guaranteeing optimal performance and a long lifespan.	●	●	● 5 grades	●
	High-capacity	Our high-capacity battery is ideal for more demanding users. Up to 25% higher rated capacity compared with the original battery specification, depending on the model. Perfect for travellers, gamers and users who are High-capacity always on the move.				●
	High-capacity ('USED')	High-capacity battery. After calibration, the status shows as 'Used', the cycle count resets to '0', and battery health displays '100%'				●
	Without BMS	Without BMS: Supplied without a Battery Management System board, allowing the original BMS board to be transferred to the replacement cell. Transferring the original BMS can help retain the expected battery identification and avoid certain battery-related warnings, depending on the iPhone model, iOS version and repair procedure.				●

Batteries for iPhone after calibration

Quality	iOS18+ message after calibration	End code in our SKU	Variants
Original	'Genuine'		
Service Pack	'Genuine'		
Pulled (iOS18+ ready)	'Used'	...4P	Available in 5 grades: 80% - 85%, 85% - 87%, 87% - 90%, 90% - 95%, 95% - 100%
Compatible (iOS18+ ready)	'Used'	...4H-FLEX	High capacity + FLEX)
Compatible*	'Unknown'	...4 ...4H ...4BMS	Normal High capacity Without BMS

*These qualities are not sourced from suppliers to meet iOS18+ calibration requirements.



Rear cover variants for iPhone

Even for rear covers (middle frame + back glass) we have choices that make repairing easy:

Icon	Variant	Notes
	With small parts (Middle frame)	See table: <i>With small parts (Middle frame)</i> .
	With logo (Back glass)	Pulled rear covers with logo are available in three different grades. See table: <i>Quality grades with logo (Back glass)</i> .

Middle frame with small parts

The following parts are pre-assembled to the middle frame.

 Included  Not included

Model	Dock connector	Speaker	Vibrator	Volume/power Flex Cable (incl. wireless charging)	Antenna	Flashlight	Lidar
X / XR / XS serie							
11 / 11 Pro / 11 Pro Max							
12 / 12 Mini							
12 Pro / 12 Pro Max							
13 / 13 Mini							
13 Pro / 13 Pro Max							
14 / 14 Plus							
14 Pro / 14 Pro Max							
15 / 15 Plus							
15 Pro / 15 Pro Max							
16 / 16 Plus							
16 Pro / 16 Pro Max							
17 / 17e							
17 Pro / 17 Pro Max							



 Back glass quality grades with logo

Quality	Pulled A	Pulled B	Pulled C
Dents	Max 2 small dots, 1-2 mm	Small dots with paint loss, 1-2 mm	Big dots/scuffs with paint loss, 3+ mm
Scratches	Max. 15 countable scratches, can't be felt with a fingernail	More than 15 countable scratches, can't be felt with a fingernail	Scratches can be felt with a fingernail
Discolouration	Max 2 small colour differences, 2-3 mm	More than 2 small colour differences, 1-2 mm or bigger area of colour difference	Noticeable colour difference
Paint loss	No paint loss	Small paint loss	More extensive paint loss



Legend

Part variants		Battery types		Display versions		Remarks	
	With logo		With frame		Normal battery	 Display by LG	 Requires soldering
	Without logo		Without frame		High-capacity	 Display by Sharp	
	With small parts		With battery		High-capacity ("Used")	 Display by Toshiba	
	Without small parts		Without battery		Without BMS		
	With buttons		With IC				
	Without buttons		Without IC				
	With camera		With adhesive				
	Without camera		Without adhesive				
	Genuine		120 Hz				
	Used						
	Unknown						



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