

Mobile Phone Inductive Charger Information

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Macan	As of 2022	95B	N/A	N/A
Macan Electric	As of 2024	XAB	N/A	N/A
Panamera	As of 2021	971	N/A	N/A
Taycan	As of 2020	Y1A, Y1B, Y1C	N/A	N/A
Cayenne	As of 2019	9YA, 9YB	N/A	N/A

Revision History

Revision	Release Date	Changes
0	February 22, 2024	Original document

Condition

The following documentation aims to assist Porsche Center service and support personnel with relevant and necessary information to assist customers with mobile phone inductive charging complaints.

Technical Background

There are two generations of wireless/inductive charger for mobile phones.

1st Generation (Maximum of 5 Watts)

- Macan (H1)
- Panamera (G2)
- Taycan (J1)
- Cayenne (E3.I)

2nd Generation (Maximum of 15 Watts)

- Cayenne (E3.II)
- Macan Electric (H2)



Note: Individual devices differ in their inductive charging rate (i.e., 5 W, 7.5 W, 10 W, 15 W)

The standard for wireless power transfer using inductive charging, “Qi”, evolved with multiple versions and power output like shown in **Table 1**. Note the Qi version, maximum power, and features noted for the inductive chargers fitted to the affected vehicles.

Porsche Generation	Qi Version number	Maximum Power	Notes & Features
N/A	1.0	5 W	Power transmitter can be a single coil, coil array, or moving coil
1	1.1	5 W	12 different transmitter specifications, foreign object detection to prevent heating of metal objects near transmitter, added powering transmitter over USB.
N/A	1.2	Baseline Power Profile (BPP): 5 W	Increased maximum transmitter power up to 15 W, improved thermal tests for transmitters, improved timing specs, improved foreign object detection sensitivity
2	1.2	Extended Power Profile (EPP): 15 W	
N/A	1.2.3	EPP Power Class 0: 5–30 W	Added Power Class 0 which allows the consumer to negotiate up to 30 W from the charger
	1.3	15 W	Expanded support, testing, and certification for authentication of Qi Certified wireless chargers
	2.0	15 W	Incorporates Apple's MagSafe standard for alignment and mounting; Initial standard supports up to 15W power, but higher power profiles are planned.

Table 1

Note: iPhones featuring inductive charging are limited to maximum 7.5 Watts via Qi wireless charging. iPhones featuring MagSafe charging advertise up to 15 Watts of wireless charging, but that is only in conjunction with Mag Safe chargers – MagSafe chargers are not equipped in Porsche vehicles.

Service Information

The inductive (wireless) mobile device charger installed in affected vehicles is capable of provided a maximum 5 or 15 Watts of charging power. It is possible for mobile devices to consume as much or more than the power provided by the inductive charger in the vehicle, in which case the mobile device state of charge may remain the same or continue to decrease while the device is in use. Thermal limits of the device itself will also limit charge rate, as devices will derate or deactivate inductive charging at high temperatures.

In addition, smartphone cases often limit wireless charging power, and can fully prevent wireless charging due to thickness of the case alone or misalignment of the phone with respect to the inductive wireless charger in the vehicle.

As always, the highest rate of charge for mobile devices is provided via the wired connections in the vehicle. A wired connection should be recommended in cases where customers find the state of charge cannot be maintained via wireless charging."

For Example, the following messages may be observed in in E3.II:

- Placing an iPhone 12 mini [max charge rate: 7.5 W via Qi] in the inductive charging tray causes the following PCM footer message to appear: *"Your device will be fast charged wirelessly."*
- Placing an Android phone [max charge rate: 15 W via Qi] in the inductive charging tray causes the following PCM footer message to appear: *"Your device will be charged wirelessly."*

Warranty

This document is provided for informational purposes only. No warranty work is described herein.

Search Items

Wireless Charging, Inductive Charging, Phone Charger, Wireless Phone Charger

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