PORSCHE'

Technical Information

Service 11/24 ENU

APB6

APB6 – Supply cable for Porsche Mobile Charger with NEMA Power Plug (Stop Delivery / Recall Campaign)

Change Overview:	Version	Date	Change
Overview:	0	05/17/2024	First publication
	1	06/13/2024	Updated information for Porsche Mobile Charger Connect
	2	09/11/2024	 Update of PIWIS Tester software version Update of IC-CPD Basic UL 9.6 kW part number Addition of note regarding different NEMA cables Update of part numbers for new charging cable with NEMA plug types Addition of Mobile Charger Connect SW and Scopes
Model Year:	As of 2019 up to 2024		
Model Line:	Taycan (Y1A / Y1B / Y1C) Panamera E-Hybrid (971) Cayenne E-Hybrid (9YA / 9YB)		
Concerns:	Industrial (250V) NEMA Supply Cable and charging electronics (Porsche Mobile Charger)		
Cause:	Charger has been enclosed in a	Industrial (250V) NEMA Supply Iffected vehicles for which the platter of the state optimized for operation wit	lug of the connection cable for
		ble can increase the risk of overheat goes unnoticed, the local thermal da	
Action:	Vehicles with Stop Delivery from the car before delivering	• •	ndustrial (250V) NEMA supply cable
	Charger Basic and Basic P	been delivered and assigned to lus (scope 3-12): Replace the affe oply cable with an integrated temper	ected supply cable of the Mobile

software on the Porsche Mobile Charger must be updated with the PIWIS Tester at software **42.950.010** (or higher). See ⇒ *Technical Information 'Re-programming Porsche Mobile Charger* (*Powerboard*) - *Basic and Basic Plus*'

Vehicles that have already been delivered and assigned to the recall - Porsche Mobile Charger Connect (scope 20-24): Replace the supply cable of the Mobile Charger with an optimized supply cable with an integrated temperature sensor. In addition, the software on the Porsche Mobile Charger Connect must be updated with the PIWIS Tester at software 42.950.010 (or higher) and via WiFi connection. For this, see ⇒ Technical Information 'Re-programming PorscheMobile Charger (Powerboard and Communication Board) - Connect'

i Information

Please note that **only** Porsche Mobile Chargers of the vehicles with **the listed scopes are able to be operated**.

Porsche Mobile Charger affected	Powerboard target software	Communication Board target software
IC-CPD Basic UL 9.6 kW	0142	
• Part number: 9Y0.971.675.BB/ DM	0142	-
IC-CPD Basic Plus UL 9.6 kW		
 Part number: 9J1.971.675.BC / F / R / AC / AJ / AP 	3000	-
IC-CPD Connect UL 9.6 kW	4504	2020
• Part number: 9Y0.971.675.BL / DB / DK	4501	3030

Overview of affected Porsche Mobile Charger with existing remedial action:

Information

In the event that customers have other affected Porsche Mobile Chargers (e.g. from Tequipment accessories), the remedial measure can be implemented and invoiced as follows:

- **Case 1: The customer's vehicle is already assigned to this campaign:** For all of the customer's other Porsche Mobile Chargers, invoice the labor costs incurred via an application for subsequent reimbursement to the original campaign claim for this action.
- **Case 2**: The customer's vehicle is **not** assigned to this campaign: **Send the PRMS ticket** to PAG_Campaign_TI_SY_Support stating the **VIN** and the **campaign number** in hand and a note saying that the **VIN is assigned to the campaign and scope 18**. Scope 18 can then be invoiced with a time of 0 and 0 parts. Any labor costs incurred can be invoiced using an application for subsequent reimbursement for the original campaign claim for this action.

Affected Only vehicles assigned to the campaign (see also PCSS Vehicle Information). Vehicles:

Required tools

Tools:

- P90999 P90999 PIWIS Tester 4 with test software version 42.950.010 (or higher) installed
 - VAS 611 009 Diagnostic adapter for high-voltage charging system

Replacing Industrial (250V) NEMA Supply Cable for the Porsche Mobile Charger

Working on electric components

- Risk of burns
- Risk of short circuit or fire.
- ⇒ Before replacing the supply cable or vehicle cable, always disconnect the supply cable from the electrical socket.
- \Rightarrow Only replace cables in a dry environment.
- ⇒ Porsche universal charger (AC) may only be used as a unit comprising supply cable, control unit and vehicle cable.

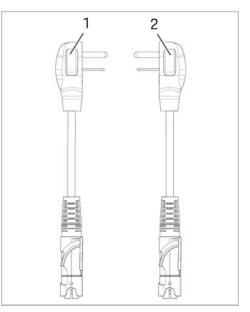


Unsecured load

- An unsecured, incorrectly secured or incorrectly positioned charger can slip out of place and endanger occupants when braking, accelerating, changing direction or in the event of an accident.
- \Rightarrow Never transport the charger unsecured.
- \Rightarrow Stow the charger in the charging bag in the luggage compartment.
- ⇒ Always transport the charging bag in the luggage compartment, never in the passenger compartment (e.g. on or in front of the seats).
- Action:
- 1 Replace the Industrial (250V) NEMA Supply Cable for the Porsche Mobile Charger . For an overview of affected supply cables, see table below.

i Information

Please note that there are two different versions of the new NEMA supply cable. These differ **only** in the plug's direction of rotation. Otherwise, the supply cables are identical. Initially available supply cables \Rightarrow *Different NEMA cables* **-1** have part number V04015005BA / -BC / -BB / -BD, and supply cables \Rightarrow *Different NEMA cables* **-2** with the later design have part number V04015001MH / -MK / -MJ / -ML. Please initially use the first NEMA supply cables (V04015005BA /-BC /-BB /-BD) until these are used up. The further version (V04015001MH / -MK / -MJ / -ML) is then delivered automatically later.



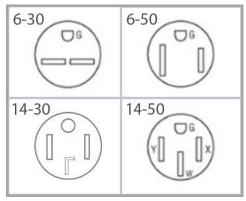
Different NEMA cables

Affected supply cables with NEMA plug types	Part number of new industrial (250V) supply cable with temperature sensing
NEMA 6-30 • 250 V • 30A, 3 lines, 2 poles • 5-5.8 kW • Part number 7PP.971.678.EA For plug type, see \Rightarrow Industrial (250V) supply cable plug types	V04015005BA (or V04015001MH)
NEMA 6-50 • 250 V • 50A, 3 lines, 2 poles • $8.3-9.6 \text{ kW}$ • Part number 7PP.971.678.EC For plug type, see \Rightarrow Industrial (250V) supply cable plug types	V04015005BC (or V04015001MK)

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NEMA 14-30 • 250 V • 30A, 4 lines, 3 poles • 5-5.8 kW • Part number 7PP.971.678.EB For plug type, see \Rightarrow Industrial (250V) supply cable plug types	V04015005BB (or V04015001MJ)
NEMA 14-50 • 250 V • 50A, 4 lines, 3 poles • 8.3-9.6 kW • Part number 7PP.971.678.ED For plug type, see \Rightarrow Industrial (250V) supply cable plug types	V04015005BD (or V04015001ML)



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Industrial (250V) supply cable plug types

Re-programming Porsche Mobile Charger (Powerboard) - Basic and Basic Plus

Action: 1 **Re-program the power board.**

1.3

1.4

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> 1.1 Fasten supply cable \Rightarrow Connecting diagnostic adapter -1- to the diagnostic adapter for high-voltage charging system \Rightarrow *Connecting diagnostic adapter* **-2-** and connect this to charger (Porsche Mobile Charger) \Rightarrow *Connecting diagnostic adapter* -3-.

> > Wait at least 3 minutes before connecting

module \Rightarrow *Connecting communication*

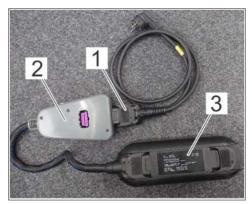
for high-voltage charging system⇒

The vehicle type is then read out, the diag-

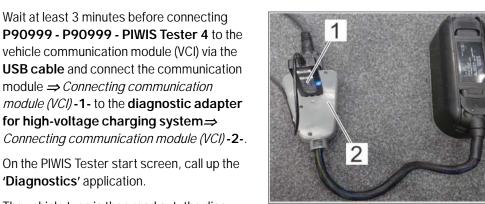
unit selection screen is populated.

nostic application is started and the control

1.2 Connect the supply cable to the power supply.



Connecting diagnostic adapter



Connecting communication module (VCI)

1.5 On the 'manual model line selection' screen, select the 'External components' model line and confirm with 'Next'.

1.6 Re-program the power board.

'Diagnostics' application.

The basic procedure for control unit programming is described in the Workshop Manual \Rightarrow Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'.

For specific information on programming the power board during this campaign, see the table below:

Required PIWIS Tester software release:	42.950.010 (or higher)
Type of control unit programming:	Carry out control unit programming using the 'Automatic programming' function in the Universal charging cable control unit.

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Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence.		
	Do not interrupt the programming and coding process.		
	A backup documentation process for the re-programmed software releases starts as soon as programming and coding is complete.		
Programming time (approx.):	10 minutes		
Software release programmed during this campaign:	 Porsche Mobile Charger: 0142 Porsche Mobile Charger Plus: 3000 		
	When programming is complete, the software release can be read out of the charger (Porsche Mobile Charger) in the "Extended identifications" menu using the PIWIS Tester.		
Procedure in the event of a termination in the control unit programming:	Repeat programming by entering the programming code again.		
Procedure in the event of error messages appearing during the programming sequence:	⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester – section on "Trou- bleshooting"'.		

- 1.7 Remove the VAS diagnostic tool from the charger (Porsche Mobile Charger).
- 1.8 Disconnect the supply cable from the power supply and remove it from the diagnostic adapter.
- 2 Include the charger (Porsche Mobile Charger) with the vehicle or give it to the customer.
- 3 Enter the campaign in the Warranty and Maintenance logbook.

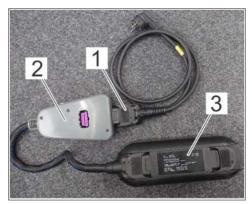
Continue with invoicing, scope 3 - 12. \Rightarrow Technical Information '9X00IN Warranty processing'

Re-programming Porsche Mobile Charger (Powerboard and Communication Board) - Connect

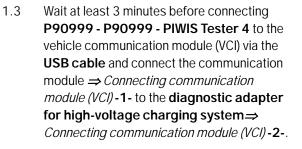
Action: 1 **Re-program the power board.**

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- 1.1 Fasten supply cable \Rightarrow Connecting diagnostic adapter -1- to the diagnostic adapter for high-voltage charging system \Rightarrow *Connecting diagnostic adapter* **-2-** and connect this to charger (Porsche Mobile Charger Connect) *⇒ Connecting diagnostic* adapter -3-.
- 1.2 Connect the supply cable to the power supply.



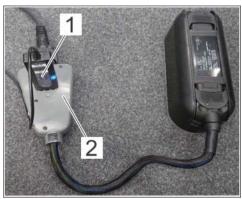
Connecting diagnostic adapter



1.4 On the PIWIS Tester start screen, call up the 'Diagnostics' application.

unit selection screen is populated.

The vehicle type is then read out, the diagnostic application is started and the control



Connecting communication module (VCI)

1.5 On the 'manual model line selection' screen, select the 'External components' model line and confirm with 'Next'.

1.6 Re-program the power board.

The basic procedure for control unit programming is described in the Workshop Manual \Rightarrow Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'.

For specific information on programming the power board during this campaign, see the table below:

Required PIWIS Tester software release:	42.950.010 (or higher)
Type of control unit programming:	Carry out control unit programming using the 'Automatic programming' function in the Universal charging cable control unit.

Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence.
	Do not interrupt the programming and coding process.
	A backup documentation process for the re-programmed software releases starts as soon as programming and coding is complete.
Programming time (approx.):	10 minutes
Software release programmed during this campaign:	• 4501 When programming is complete, the software release can be read out of the charger (Porsche
	Mobile Charger Connect) in the "Extended identifications" menu using the PIWIS Tester.
Procedure in the event of a termination in the control unit programming:	C

- 1.7 Remove the VAS diagnostic tool from the charger (Porsche Mobile Charger).
- 1.8 Disconnect the supply cable from the power supply and remove it from the diagnostic adapter.

i Information

A connection to a WiFi network is required for the communication board update.

If it is not possible to establish an Internet connection to the charger (Porsche Mobile Charger Connect), the update can also be downloaded manually via the web address under **E-Performance** at https://www.porsche.com and installed using the web application. This procedure is described further in the instructions for the web application.

2 Re-program the communication board.

- 2.1 Secure the supply cable to the charger (Porsche Mobile Charger) and connect it to the power supply.
- 2.2 Wait for at least 30 seconds for the charger to start.
- 2.3 Select the 'Settings' icon in the menu bar to open the main menu \Rightarrow Opening Settings -1-.



Opening Settings

- 2.4 Select the 'Networks' function in the main menu ⇒ Selecting Networks function -1-.
 2.5 Activate WiEi ⇒ Connecting WiEi network 1
- 2.5 Activate WiFi ⇒ Connecting WiFi network -1and then select "WiFi networks" in order to select the relevant network from the list of detected WiFi networks ⇒ Connecting WiFi network -2-.
- 2.6 Enter the WiFi password and confirm it.



Selecting Networks function

2.7 Return to the selection screen using the arrow key and select the 'Software updates' function.



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Connecting WiFi network

- 2.8 Deactivate automatic software updates ⇒ Installing software update -1- and select the 'Download' function ⇒ Installing software update -2-.
- 2.9 Once the latest software has been downloaded successfully, select the 'Install' function in order to confirm the message Software update available.

The update can take up to 5 minutes.

2.10 Once the update is complete, confirmation of the software update that was performed is displayed. Confirm with 'OK'.

Software release programmed during this sequence

Communication board: 3030



Installing software update

Following the update, the software release is

displayed at the bottom of the screen in the 'Software updates' menu.

- 2.11 Switch off the charger (Porsche Mobile Charger Connect)
- 3 Include the charger (Porsche Mobile Charger Connect) with the vehicle or give it to the customer.



Information

Please perform the following to ensure proper functionality of the new cable and software after performing the updates: - with the updated charger and the new/replacement APB6 Charger Power Supply Cable, perform 3-5 boot-up cycles by plugging/unplugging charger from the wall, and monitor the status LED's. - with the updated charger and the new/replacement APB6 Charger Power Supply Cable, plugged into the wall, stress/manipulate/twist the cable while monitoring the status LED's. with the updated charger and the new/replacement APB6 Charger Power Supply Cable, plugged into the wall and plugged into the vehicle, set at 100% charging rate (not 50%), charge the vehicle for at least 1 hour.

If the status LED's do not indicate any issues, there are no charger faults or vehicle faults, the vehicle charges successfully, and the vehicle is operating as designed, it can be released to the customer. If the status LED's do indicate an issue, please provide a video recording of the flashing lights, a screen shot of the charger fault memory, and a current VAL in a PRMS technical support ticket.

4 Enter the campaign in the Warranty and Maintenance logbook.

Continue with invoicing, scope 20 - 24. \Rightarrow Technical Information '9X00IN Warranty processing'

Warranty processing

Scope 1:



Information

The specified working times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent work. The working times may differ from the working times published in the Labor Operation List in PCSS.

Removing Porsche Mobile Charger industrial (250V) supply cable from vehicle

Labor time:

Removing Porsche Mobile Charger industrial (250V) supply cable from vehicle

Labor time: 10 TU

\Rightarrow Damage Number APB6 099 000 1

- Scope 2: Not valid.
- Scope 3: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update
 - Valid for Porsche Mobile Charger Basic

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Replacing in Mobile Char	-	50V) supply cable and performing charger (Por are update	sche Labor time: 54
Includes:	Connect high-volt	ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	
Part requir V04015005 (or V04015	5BA	Supply cable (NEMA 6-30)	1 piece

Scope 4: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic

Labor time:		
Mobile Charge Includes: (strial (250V) supply cable and performing charger (Porsche r) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system	Labor time: 54 TU
Part required	l de la constante de	
V04015005BI (or V0401500		1 piece
⇒ Damage N	umber APB6 099 000 2	

- Scope 5: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update
 - Valid for Porsche Mobile Charger Basic

Mobile Cha	•	50V) supply cable and performing charger (Porsche are update	Labor time: 54 TL
Includes: Part requi	Connect high-volt	ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	
Faitiequi			

Scope 6: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic

Replacing ir Mobile Chai		250V) supply cable and performing charger (Porsche vare update	Labor time: 54 TU
Includes:	Connec high-vol	ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	
Part requi V0401500 (or V04015	5BD	Supply cable (NEMA 14-50)	1 piece

- Scope 7: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update
 - Valid for Porsche Mobile Charger Basic

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Replacing in Mobile Char		250V) supply cable and performing charger (Porsche vare update	Labor time: 54 T
Includes:	Connec Connec high-vol	ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	
Part requi	red		
V0401500 (or V04015		Supply cable (NEMA 6-50)	1 piece
V0401500 (or V04015		Supply cable (NEMA 14-50)	1 piece

Scope 8: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic Plus

Labor time	:	
	dustrial (250V) supply cable and performing charger (Porsche ger) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system	Labor time: 54 TU
Part requir	ed	
V04015005 (or V04015)		1 piece
⇒ Damage	Number APB6 099 000 2	

Scope 9: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic Plus

Labor time:			
Replacing ind Mobile Charg Includes:	jer) softw Connect Connect	50V) supply cable and performing charger (Porsche are update ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	Labor time: 54 TU
Part require	ed		
V04015005 (or V040150		Supply cable (NEMA 14-30)	1 piece
⇒Damage	Number	APB6 099 000 2	

Scope 10: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic Plus

Labor time	:				
1 0	•	DV) supply cable and performing charger (Por	Labor time: 54 TU		
Mobile Charger) software update					
Includes:	Connectin				
	Connectin	g and disconnecting diagnostic adapter for			
	high-volta	ge charging system			
Part requir	ed				
V04015005 (or V040150		Supply cable (NEMA 6-50)	1 piece		
	Number				
⇒Damage	Number A	PB6 099 000 2			

- Scope 11: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update
 - Valid for Porsche Mobile Charger Basic Plus

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Replacing in Mobile Cha		50V) supply cable and performing charger (Porsche are update	Eabor time: 54 TU
Includes:	Connect	ting and disconnecting PIWIS Tester ting and disconnecting diagnostic adapter for tage charging system	
Part requi	red		
V0401500	5BD 001ML)	Supply cable (NEMA 14-50)	1 piece

Scope 12: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for Porsche Mobile Charger Basic Plus

Labor time:		
Mobile Charge Includes: (strial (250V) supply cable and performing charger (Porsche •) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system	Labor time: 54 TU
Part required		
V04015005B0 (or V0401500		1 piece
V04015005BI (or V0401500		1 piece
⇒ Damage N	umber APB6 099 000 2	

Scope 13 - 17: Not valid.

Scope 18: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

• Valid for additional Porsche Mobile Chargers (e.g. Tequipment accessories) – see the information under "Action" Scope 19:

Scope 20:

Labor time	2:	
	ndustrial (250V) supply cable and performing charger (Porsche rger) software update	Labor time: 0
⇒ Damage	e Number APB6 099 000 2	
Not valid.		
Replacing ind update	dustrial (250V) supply cable and performing charger (Porsche Mot	pile Charger) software
Valid fo	r Porsche Mobile Charger Connect	
Labor time	2:	
Replacing in	ndustrial (250V) supply cable and performing charger (Porsche	Labor time: 64
Replacing in		Labor time: 64
Replacing ir Mobile Chai	ndustrial (250V) supply cable and performing charger (Porsche rger) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system	Labor time: 64 '
Replacing ir Mobile Char Includes:	ndustrial (250V) supply cable and performing charger (Porsche rger) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system red 5BA Supply cable (NEMA 6–30)	Labor time: 6 1 piece

- Scope 21: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update
 - Valid for Porsche Mobile Charger Connect

Labor time: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update Includes: Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system

Part required

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	V04015005BB (or V04015001MJ)	Supply cable (NEMA 14–30)		1 piece	9	
	\Rightarrow Damage Number	APB6 099 000 2				
Scope 22:	Replacing industrial (25 update	OV) supply cable and performing charger (F	Porsche Mob	ile Charç	ger) softwa	are
	Valid for Porsche Mobile Charger Connect					
	Labor time:					
	Mobile Charger) softw Includes: Connect Connect	50V) supply cable and performing charger (are update ing and disconnecting PIWIS Tester ing and disconnecting diagnostic adapter for age charging system		L	abor time:	64 TU
	Part required					
	V04015005BC (or V04015001MK)	Supply cable (NEMA 6–50)		1 piece	2	
	\Rightarrow Damage Number	APB6 099 000 2				
Scope 23:	Replacing industrial (25 update	OV) supply cable and performing charger (F	Porsche Mob	ile Charç	ger) softwa	are

• Valid for Porsche Mobile Charger Connect

Labor time:		
Mobile Charge Includes:	ustrial (250V) supply cable and performing charger (Porsche er) software update Connecting and disconnecting PIWIS Tester Connecting and disconnecting diagnostic adapter for high-voltage charging system	Labor time: 64 TU
Part require	t	
V04015005B (or V0401500		1 piece
⇒Damage N	lumber APB6 099 000 2	

Scope 24: Replacing industrial (250V) supply cable and performing charger (Porsche Mobile Charger) software update

Valid for Porsche Mobile Charger Connect

Labor time:						
Mobile Charger) Includes: Co Co	trial (250V) supply cable and performing charger (Porsche software update onnecting and disconnecting PIWIS Tester onnecting and disconnecting diagnostic adapter for gh-voltage charging system	Labor time: 64 TU				
Part required						
V04015005BC (or V04015001	Supply cable (NEMA 6–50) MK)	1 piece				
V04015005BD (or V04015001	Supply cable (NEMA 14–50) ML)	1 piece				
⇒ Damage Nu	mber APB6 099 000 2					

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

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