

Technician:

Customer:

Address:

Vehicle:

Date:

Serial Number:

Charger version (SW):

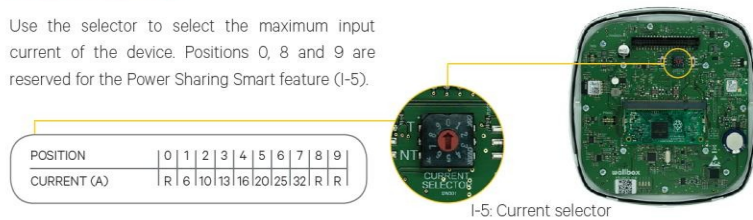
**1. Provide photos of the charger, include a clear photo of the inside of the charger both cover and body**

**2. WallBox Checks**

- 2.1 Is the status led on?  Yes  No Check electric installation and Molex, also if there is any LED on inside
- 2.2 What is the color of the status LED?  
 Yellow  Green  Blue  Orange  Red  Turquoise  LED Off  Blinking  
(review section 5.2. of the Annex)
- 2.3 Is possible to synchronize with Wallbox APP?  Yes  No
- 2.4 Charger appears on nearby devices?  Yes  No Name:
- (check in the Bluetooth settings of the mobile (Android) or BLE Scanner 4.0 App (Apple))
- 2.5 Is it connected to internet?  WiFi  No
- 2.6 Is the WallBox making any noise or buzzing?  Yes  No
- 2.7 In what position is the current selector?  0 to 9

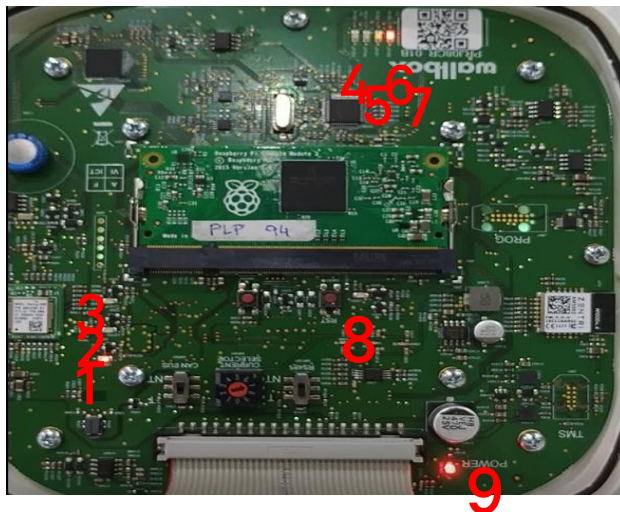
**2. Current selector**

Use the selector to select the maximum input current of the device. Positions 0, 8 and 9 are reserved for the Power Sharing Smart feature (I-5).



**2.8 In which state are the LEDs on the Carrier (CR)?**

	Blinking	Fix	Off	
1 LD301	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communication RPi-MCU
2 LD302	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Error Control LED
3 LD303	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hearbeat
8 LD201	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RPi
7 LD1302	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Meter feedback
9 Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power ON



**2.9 In which position are the switches on the Carrier (CR)?**

	T	NT
CAN BUS	<input type="checkbox"/>	<input type="checkbox"/>
RS485	<input type="checkbox"/>	<input type="checkbox"/>

### 3 Electric Installation



Single-Phase       IT      MCB (A)       Other:   
 Bi-Phase  
 Three-Phase       TT/ TN      RCD (Type)

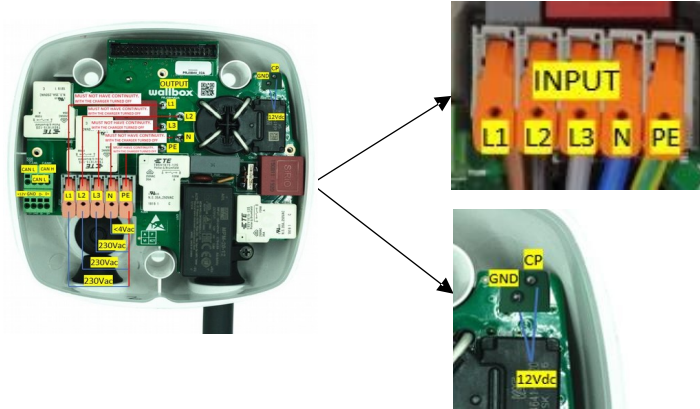
3.1 Earth resistance of the charger installation:  
(Some EV car models do not accept more than 150 Ohm).  Ohm

3.2 Voltage measurements on the charger: (review section 5.1. of the Annex)  
**The measurements in 3.2.1 and 3.2.2 must be carried out with power supply to the charger!**

3.2.1 Measurements on the power supply of the charger.

N-PE (0Vac)	
N-L1 (230Vac)	
N-L2 (230Vac)	
N-L3 (230Vac)	
PE-L1 (230Vac)	
PE-L2 (230 Vac)	
PE-L3 (230Vac)	
CP-PE (12Vdc)	

(12 V in case no error is detected by the charger, as it would measure -12V)



3.2.2 EVgun mesures:

N-PE (0Vac)	
N-L1 (0Vac)	
N-L2 (0Vac)	
N-L3 (0Vac)	
PE-L1 (0Vac)	
PE-L2 (0 Vac)	
PE-L3 (0Vac)	
CP-PE (12Vdc)	

(12 V in case no error is detected by the charger, as it would measure -12V)

(review section 5.3. of the Annex)

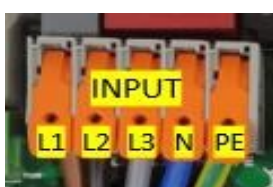


3.3 Continuity measurements on the charger

**The measurements in 3.3.1 and 3.3.2 and 3.3.3 must be carried out without power supply to the charger!**

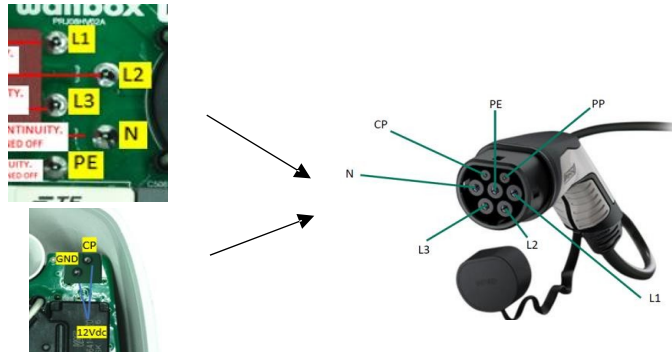
3.3.1 Verification of relays, must be measured between the supply connections and the terminals of the hose output:  
There must be no continuity in the lines, only on the ground (PE).

Continuity L1 input - L1 output:  Yes     No  
 Continuity L2 input - L2 output:  Yes     No  
 Continuity L3 input - L3 output:  Yes     No  
 Continuity N input - N output:     Yes     No  
 Continuity PE input - PE output:  Yes     No



3.3.2 EVgun cable continuity: should be measured between the EVgun pins and the hose output terminals:

- Continuity L1 EVg - L1 output:  Yes  No
- Continuity L2 EVg - L2 output:  Yes  No
- Continuity L3 EVg - L3 output:  Yes  No
- Continuity N EVg - N output:  Yes  No
- Continuity PE EVg - PE output:  Yes  No
- Continuity CP EVg - CP output:  Yes  No

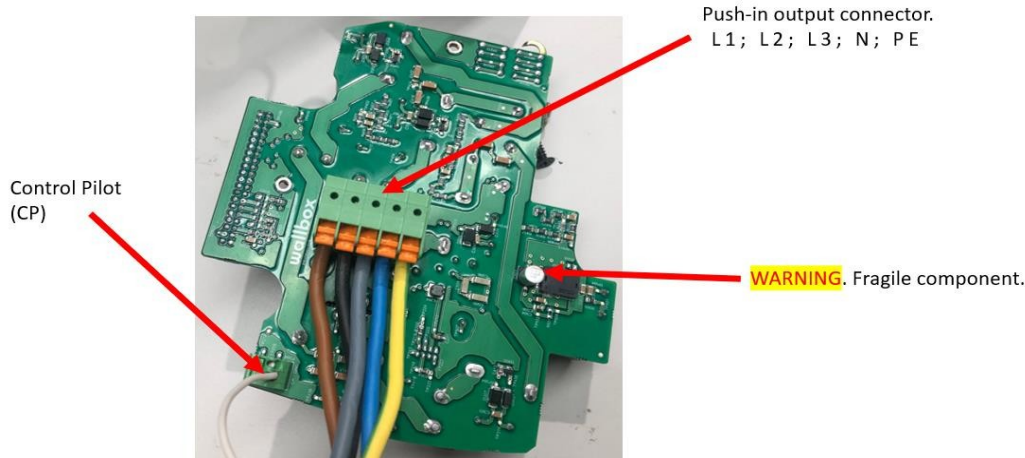


3.3.3 check output connections, rear HV-board

Only in cases of no continuity of the Evgun or no 12Vcc in the CP or with or in cases of intermittent charges

(review section 5.5. of the Annex)

- Is the L1 properly connected?  Yes  No
- Is the L2 properly connected?  Yes  No
- Is the L3 properly connected?  Yes  No
- Is the N properly connected?  Yes  No
- Is the PE properly connected?  Yes  No
- Is the CP properly connected?  Yes  No



3.4 More details of the place of installation (eg, it is at the end of the line, there is heavy machinery nearby, it is located in an industrial area, ...)

#### 4. Resume

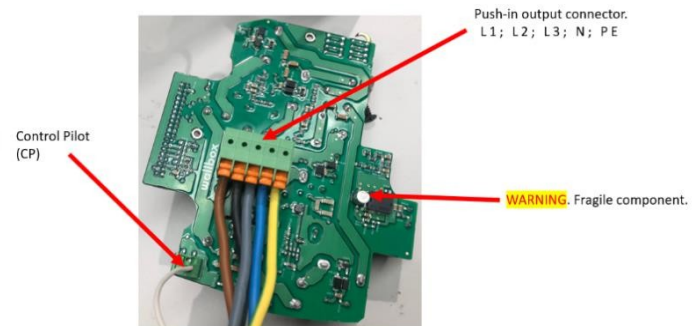
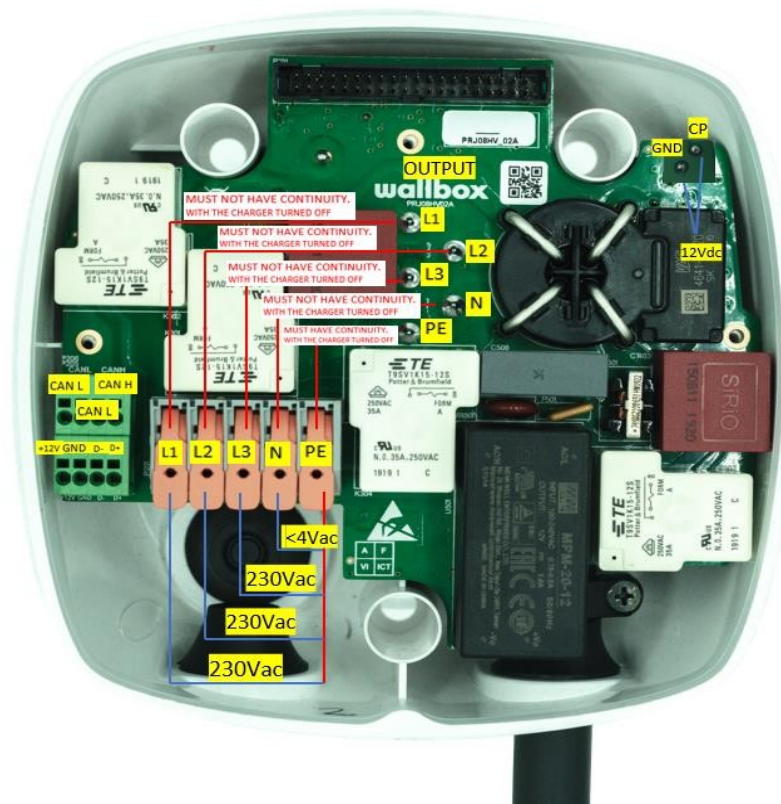
4.1 Spare part needed?

COVER	EV Gun	Complete Unit
PCB HV&PS	PLAIN CABLE	Plastics

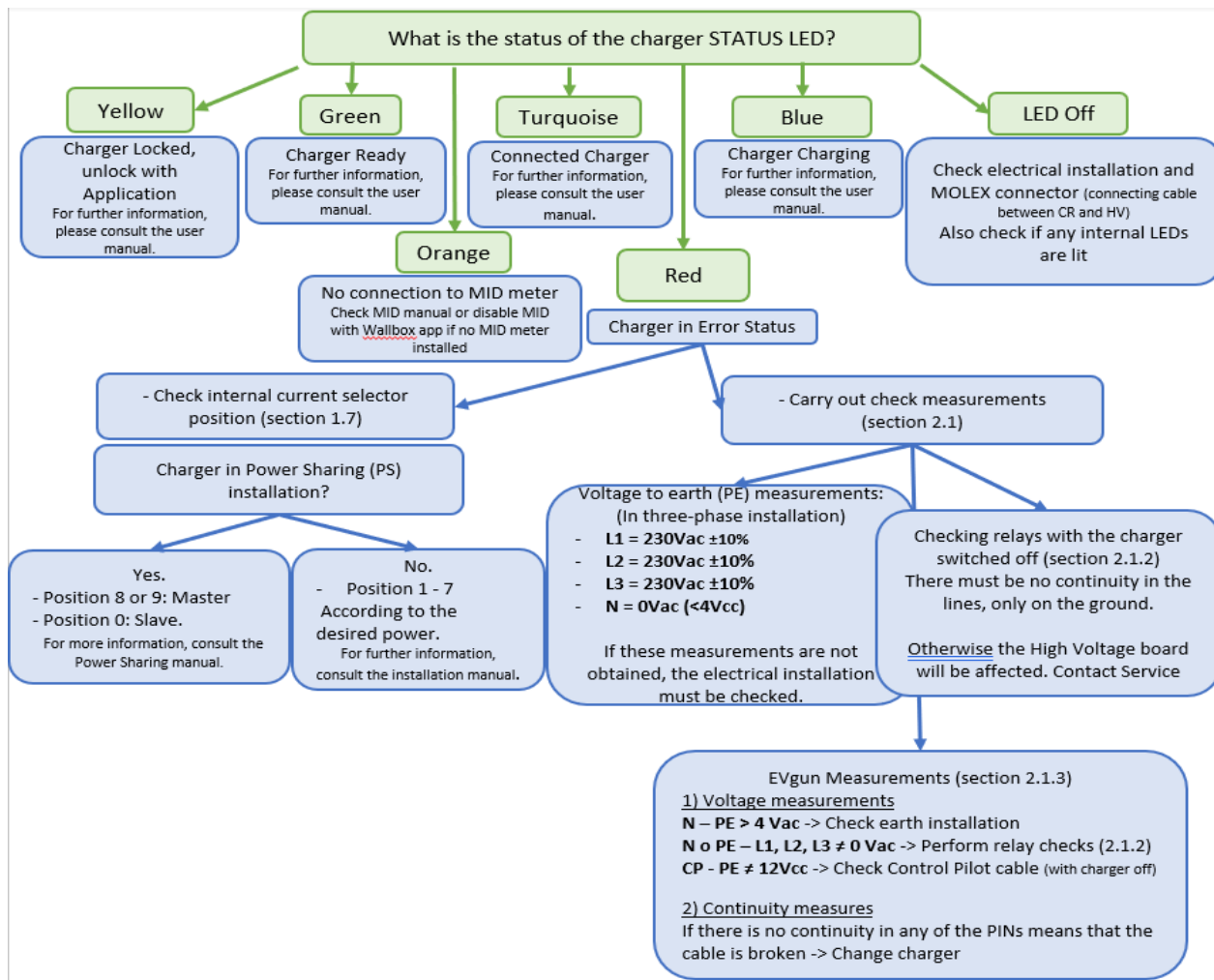
4.2 Fault description:

## 5 Annex

### 5.1 PCB's wiring



### 5.2 LED status





5.3 EVgun mesures:



PINS	MEDIDAS
NEUTRO-TIERRA	0V ca (obligatorio menos de 5V)
NEUTRO - L1	0V ca
NEUTRO - L2	0V ca
NEUTRO - L3	0V ca
TIERRA - L1	0V ca
TIERRA - L2	0V ca
TIERRA - L3	0V ca
CP - PE	12V cc

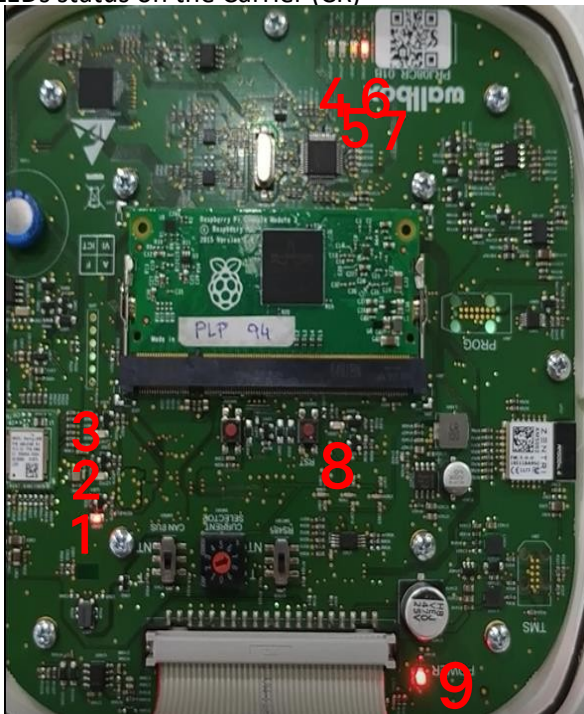
PINS	CONTINUIDAD EVG A WALLBOX (con el cargador apagado)
L1 EVG - L1 OUTPUT	Continuidad?
L2 EVG - L2 OUTPUT	Continuidad?
L3 EVG - L3 OUTPUT	Continuidad?
N EVG - N OUTPUT	Continuidad?
PE EVG - PE OUTPUT	Continuidad?
CP EVG - CP OUTPUT	Continuidad?



**EV GUN MEDIDAS (WALLBOX ON - Coche desconectado)**

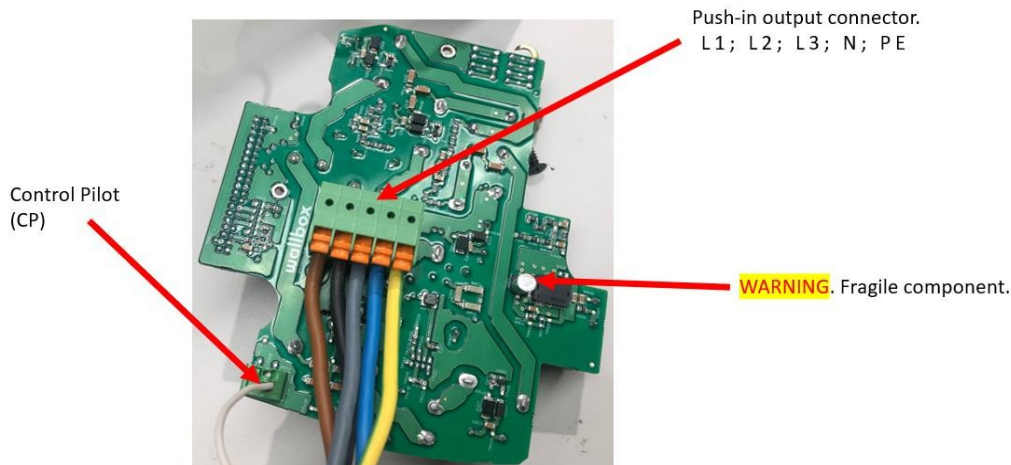
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5.4 LEDs status on the Carrier (CR)



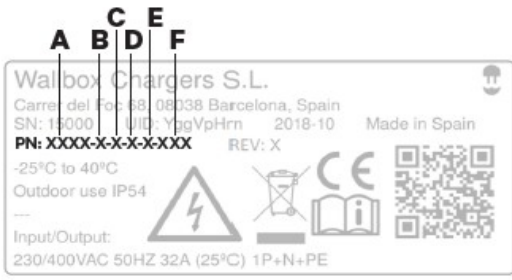
Nº LED	Function	Expected behaviour	Status	Action (if the led does not have the expected behaviour)
1 LD301	Modbus Comm between RasPi and TMS.	Red - Every 250ms is ON shortly	If never blinks, there is no Comm between TMS and RasPi last around 30 sec to power on	make RESTORE + UPDATE (consult user manual) If the incident continues contact Service.
2 LD302	Error Control LED	Off	Normally off - if blinking indicates error	if it blinks, make a video where it is possible to count the number of blinks per interval
3 LD303	Heart Beat	Red - Blink every 1s	Alive	Check electrical installation and MOLEX connector
4	-	-	-	-
5	-	-	-	-
6 LD1301	Power Boost TX	Green - ON shortly	Every time the LED is ON the charger looks for a power meter device	Only applies if installed with Power Boost. Please contact Service indicating the issue.
7 LD1302	Power Boost RX	Red - ON shortly	It is ON when the power meter is answering	Only applies if installed with Power Boost. Check the Power Boost wiring against the Power Boost installation manual. Also check correct installation of the Power Meter.
8 LD201	RasPi Access external memory	Green - ON shortly every few seconds	If no blinking or fixed, the RasPi is not functioning as expected	With the charger turned off. Remove the RasPi and reintroduce it into its lane.
9 POWER	Power	Red - Always ON	If it is not fixed there is a problem with the Power Supply	Check electrical installation and MOLEX connector

5.5 Output connections, rear HV (Only in cases of no continuity on any of the measurements of the Evgun, point 3.3.2) check how to disassemble in the manual: "[EN] 20201001 Pulsar Plus Service Manual "



5.6 Product code

**Part Number Structure**

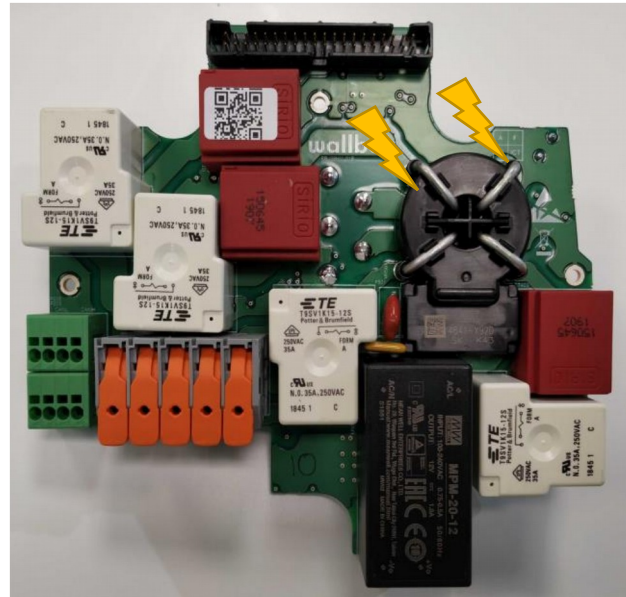


	Code	Definition
<b>A</b> Model	PLP1	Pulsar Plus
<b>B</b> Cable	0	5 m
	M	7 m
<b>C</b> Connector	1	Type 1
	2	Type 2
<b>D</b> Power	2	7,4 kW
	3	11 kW
	4	22 kW
<b>E</b> Additional Feature	9	Residual current detection (DC 6mA)
	F	Residual current detection (DC 6mA) + Earthing protection
<b>F</b> Custom	XX1	White
	XX2	Black

**WARNING:**

High voltage.

Caution when the charger is power on.



Wallbox only recommends performing any manipulation of the charger by a technician / professional.  
Wallbox assumes no liability for (personal injury or unit damage) that could result from a false manipulation of the device.