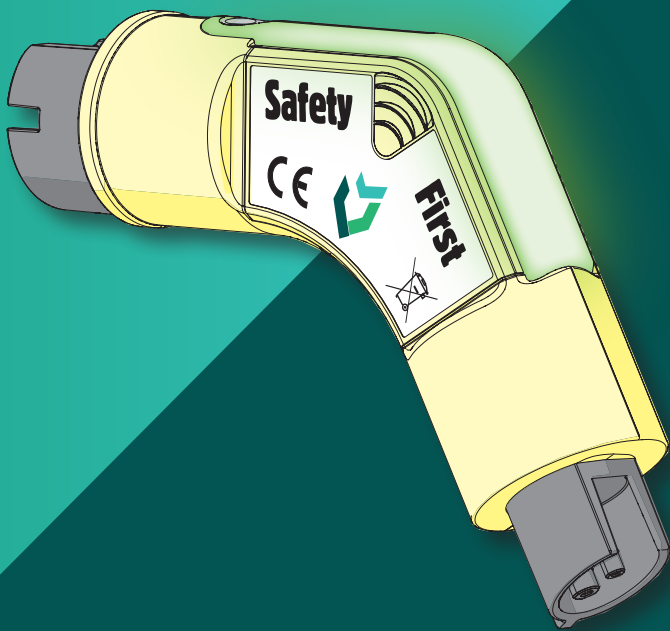




EMERGENCY-PLUG

USER MANUAL





Total Safety Solutions B.V.

Emergency-plug
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The Netherlands

www.emergency-plug.com



Emergency-plug

USER MANUAL

Foreword

About this manual

This manual contains all instructions and safety information for the safe use of the Emergency-plug. This manual is intended for the end user of the Emergency-plug. Keep this manual near the Emergency-plug for future reference and pass it on to the next Emergency-plug owner.

Translated instructions

This policy has been translated into several languages. The original manual was written in Dutch. All other language versions of this manual are translations of the original.

Warranty conditions

The Emergency-plug comes with a warranty period of one year after purchase. Extend the warranty period of your Emergency-plug to two years by registering the Emergency-plug at www.totalsafetyolutions.nl. Visit www.emergency-plug.com/en/terms-and-conditions for more information on the warranty conditions.

Symbols used in this manual

The following symbols are used in this manual:






Symbol	Meaning
 DANGER	This symbol indicates a dangerous situation which, if not avoided, will result in serious injury or death.
 WARNING	This symbol indicates a dangerous situation which, if not avoided, could result in serious injury or death.
 CAUTION	This symbol indicates a dangerous situation which, if not avoided, could result in minor injury or damage to the product.
 NOTICE	This symbol indicates operations unrelated to personal injury.
	This symbol indicates useful additional information.



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1 Product information

1.1 Intended use and reasonably foreseeable unintended use

The Emergency-plug is intended to temporarily block an electric vehicle from unpredictable vehicle behaviour.

The Emergency-plug is an addition to the current applicable protocols. The Emergency-plug can never be a replacement for the current applicable protocols.

The following is considered as foreseeable unintended use:

- Failure to follow the instructions in this manual.
- Failure to resolve product defects that pose safety risks.
- Unauthorised modifications to parts of the product.

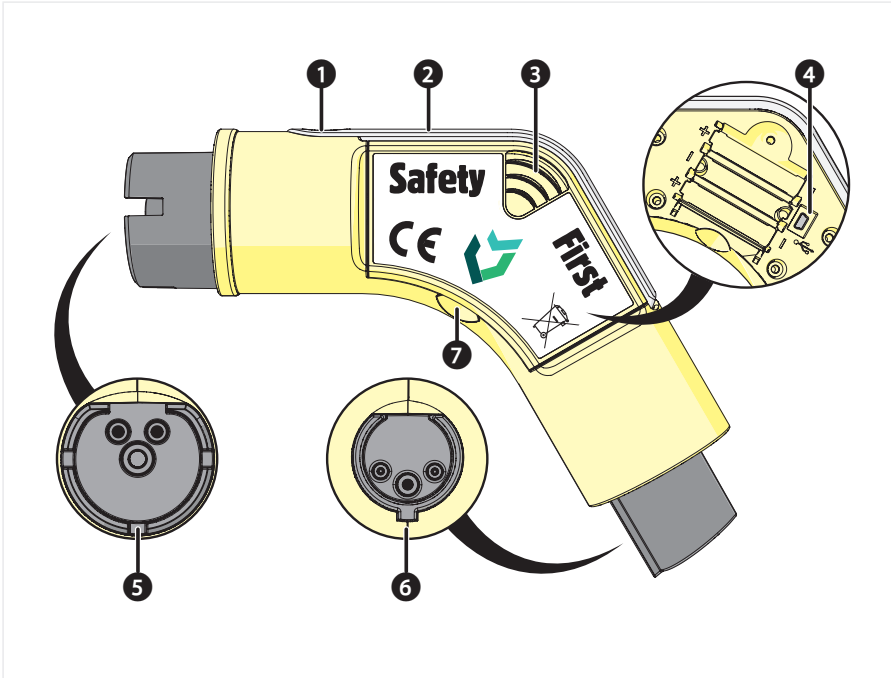
1.2 Technical specifications

Product name	Emergency-plug
Dimensions (length × width × height)	247 × 186 × 69 (mm)
Mass	475 grams
Energy consumption	3 × 1.5 V
Battery type	3 × PX1500 AA Procell batteries
Battery life	8 hours
Operating ambient temperature	-20°C – +50°C
Operating humidity	20% – 80%
Ambient temperature for storage	+5°C – +30°C
Plug types	Type 1 and type 2
Suitable vehicles according to European legislation	UN/ECE Regulation No. R100.01

2 Description and operation

The Emergency-plug sends a charging signal to an electric vehicle. The charging signal automatically switches the vehicle to the P position (parking) or the N position (neutral). This blocks the vehicle so that it cannot drive away. All other functions of the vehicle remain usable.

2.1 Main parts



- ❶ Power button
- ❷ LED indicator
- ❸ Battery cover
- ❹ USB port
- ❺ Type 2 connection
- ❻ Type 1 connection
- ❼ Battery cover lock

2.2 Plug types

The Emergency-plug is equipped with two different plug types, which means the Emergency-plug can be used with all plug-in hybrid and electric vehicles with a charging or communication port.

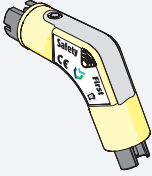
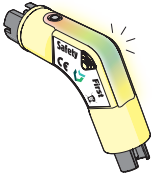
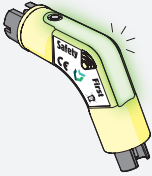
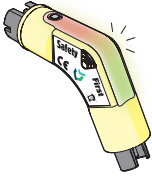
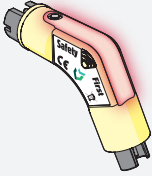
		Type 1	Type 2	Tesla adapter*
	Type 1 J1772	✓	✗	✗
	Type 2 Mennekes	✗	✓	✗
	CCS1	✓	✗	✗
	CCS2	✗	✓	✗
	Supercharger	✗	✗	✓
	Type 1 J1772 & CHAdeMO	✓	✗	✗
	Type 1 J1772 & GB/T	✓	✗	✗
	Type 1 J1772 & Supercharger	✓	✗	✓
	Type 2 Mennekes & CHAdeMO	✗	✓	✗
	Type 2 Mennekes & GB/T	✗	✓	✗
	Type 2 Mennekes & Supercharger	✗	✓	✓

*The Tesla adapter is only supplied in countries where a Tesla Supercharger is used.

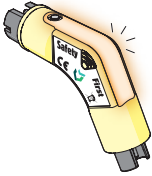
2.3 LED indicator colour coding

The LED indicator indicates the status of the Emergency-plug.

Refer to the following table for the meanings of the different LED indicator statuses:

LED indicator status	Meaning	Action point	
	Off.	The Emergency-plug is switched off.	
		The self-test failed.	Switch on the Emergency-plug. Replace the batteries. Please contact Total Safety Solutions or an authorised sales point. Do not use the Emergency-plug.
	Flashes alternately red, green, blue and yellow.	The Emergency-plug is performing a self-test.	Wait until the self-test is complete. The self-test is successful when the LED indicator lights up green.
	Flashes green.	The Emergency-plug is ready for use.	Insert the Emergency-plug into the vehicle charging port.
	Flashes alternately red and green.	The self-test was successful, but the batteries are running low.	<ol style="list-style-type: none"> 1. Replace the batteries. 2. Perform the self-test function again.
	Lights up red.	The self-test failed.	The Emergency-plug is damaged. Please contact Total Safety Solutions or an authorised sales point. Do not use the Emergency-plug.

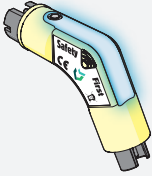
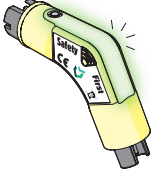
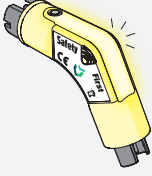
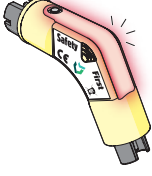


	Flashes orange briefly.	The Emergency-plug is switching off.	–
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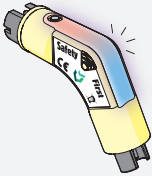
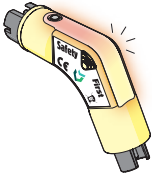
2.4 LED indicator colour coding for the vehicle connection

The LED indicator also indicates the vehicle's Emergency-plug connection.

Refer to the following table for the meanings of the different LED indicator statuses:

LED indicator status	Meaning	Action point	
	Lights up blue.	The Emergency-plug is connected to the charging port and has contact with the vehicle.	–
	Flashes green.	The Emergency-plug is connected to the charging port but has no contact with the vehicle.	Visually check in the vehicle that the vehicle is no longer in the D position (drive) and follow the locally applicable protocols.
	Flashes yellow.	The Emergency-plug is connected to the charging port but has limited contact with the vehicle.	Visually check in the vehicle that the vehicle is no longer in the D position (drive) and follow the locally applicable protocols.
	Flashes red four times per second.	The Emergency-plug has lost contact with the vehicle.	Check that the Emergency-plug is connected correctly to the vehicle.





	Flashes alternately blue and red.	The Emergency-plug is connected to the charging port and has contact with the vehicle, but the batteries are running low.	Replace the batteries after use.
	Flashes alternately yellow and red.	The Emergency-plug is connected to the charging port but has limited contact with the vehicle. The batteries are also running low.	<ol style="list-style-type: none"> 1. Visually check in the vehicle that the vehicle is no longer in the D position (drive) and follow the locally applicable protocols. 2. Replace the batteries after use.

3 Safety

This chapter contains important instructions for the safe installation and use of the Emergency-plug.

3.1 Symbols and labels on the product

Symbol	Meaning
	Products with a CE mark comply with the relevant applicable rules within the European Economic Area.
	Products bearing the WEEE symbol must be presented for the separate collection of electrical and electronic equipment when the product is disposed of.

3.2 Safety instructions

The following safety instructions must be followed to prevent dangerous situations:

DANGER

Collision hazard!

- Never connect the Emergency-plug to a moving vehicle. Always wait for the vehicle to come to a standstill before connecting the Emergency-plug to the charging port.





Crushing hazard!

- Always ensure the vehicle is secured according to locally applicable protocols before disconnecting the Emergency-plug from the vehicle.

⚠ WARNING

Safety risk!

- Only use the Emergency-plug as described in this manual.
- Only use the Emergency-plug as an aid. Always follow local rules.

Fire hazard!

- Never use a generator as a power source for the Emergency-plug. Always use the recommended battery type as the power source for the Emergency-plug.

⚠ CAUTION

Electrocution hazard!

- Do not use the Emergency-plug when damaged or defective. If the Emergency-plug is damaged or defective, contact your supplier.
- Never disassemble, repair, isolate or modify the Emergency-plug yourself. For maintenance and repair, contact a service point approved by Total Safety Solutions.
- Do not insert any objects into the openings of the Emergency-plug. There is a danger of electrocution when inserting objects into external openings.

NOTICE

- Do not drop the Emergency-plug and avoid impacts. Excessive vibration may cause loose connections, which may adversely affect the proper operation of the Emergency-plug.
- Always check the Emergency-plug for damage before use.
- Do not transport, use or store the Emergency-plug outside a temperature range of -20°C to +50°C.
- Do not use rechargeable or Lithium batteries in the Emergency-plug. The battery life of the Emergency-plug cannot be guaranteed when using non-recommended battery types.
- Always ensure that the plus (+) and minus (-) markings on the battery match the plus (+) and minus (-) markings in the Emergency-plug when inserting the batteries.
- Do not use harsh chemical cleaning agents to clean the Emergency-plug. Always use a soft, damp cloth to clean the Emergency-plug.

4 Transport

NOTICE

- Do not drop the Emergency-plug and avoid impacts. Excessive vibration may cause loose connections, which may adversely affect the proper operation of the Emergency-plug.

Always transport the Emergency-plug in the storage case.

5 Installation

5.1 Package contents

1 ×	Emergency-plug (incl. batteries)
1 ×	Tesla adapter*
2 ×	Spudger
3 ×	Spare batteries
1 ×	Storage case
1 ×	User Manual

*The Tesla adapter is only supplied in countries where a Tesla Supercharger is used.

5.2 Emergency-plug registration

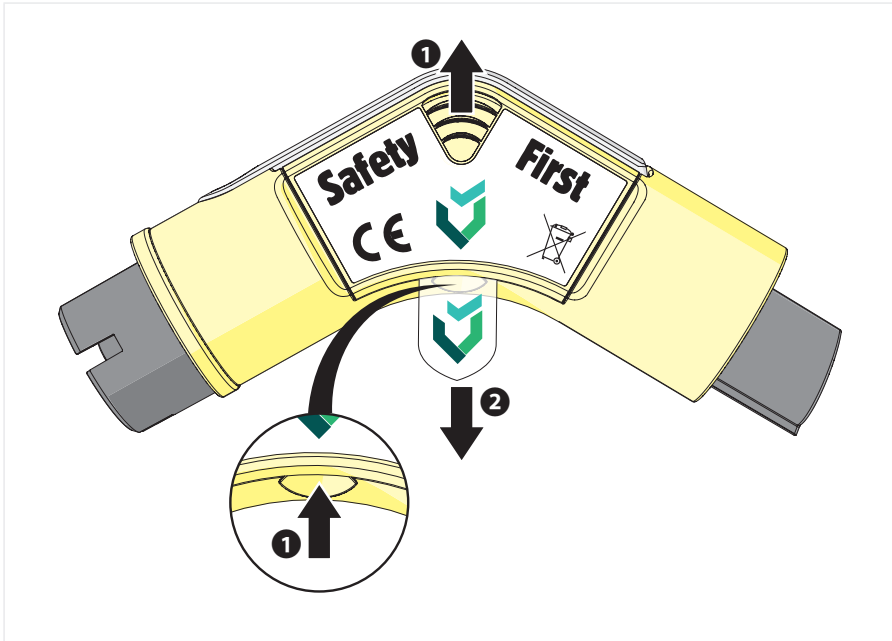
Register the Emergency-plug to extend the warranty period and to be kept informed of software updates.

To update the Emergency-plug, the Emergency-plug must be registered:

1. Visit www.totalsafetysolutions.nl
2. Go to 'Register'.
3. Fill in the required details.
- ❗ The Emergency-plug registration code can be found under the battery cover under the middle battery.
4. Push in the battery cover lock and slide the battery cover backwards to remove the battery cover.
5. Follow the online instructions.

6 Taking into Use

6.1 Remove the battery protector



Before you can use the Emergency-plug, you must remove the battery protector:

1. Push in the battery cover lock and slide the battery cover backwards to remove the battery cover.
2. Pull out the battery protector from between the batteries.
3. Replace the battery cover on the Emergency-plug.

6.2 Using the self-test function

NOTICE

- Always check the Emergency-plug for damage before use.

Before using the Emergency-plug, you must first perform the self-test function:

1. Press the power button.

The Emergency-plug starts the self-test function.

- i** The LED indicator lights up in different colours. Refer to Chapter 2.3. **LED indicator colour coding** for more information.

The LED indicator lights up green when the self-test function has been performed successfully.



The Emergency-plug is ready for use.

- i** It is recommended to perform the self-test function monthly when the Emergency-plug is not used for a prolonged period. The self-test function checks, among other things, the battery life. By performing the self-test function regularly, you prevent the batteries from being depleted the next time they are used.

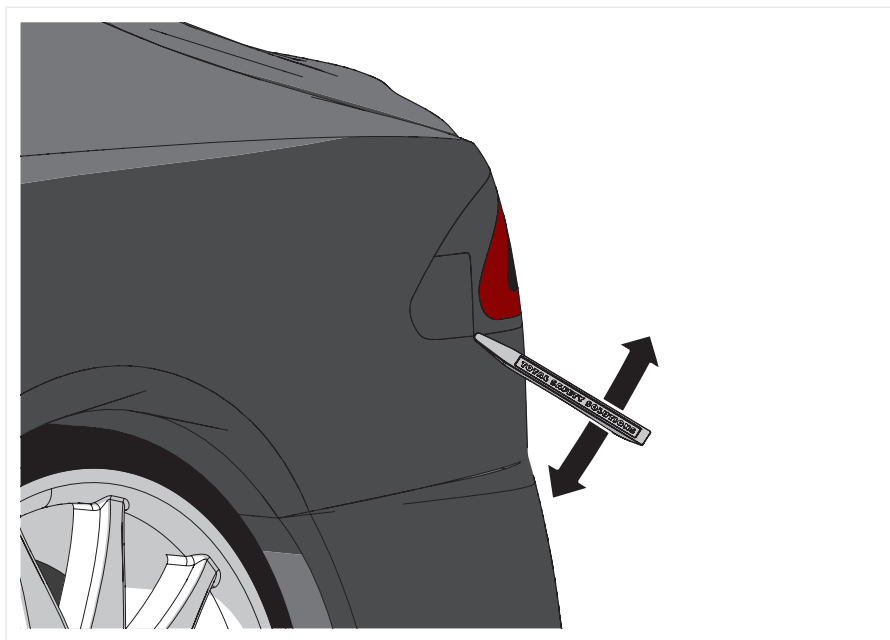
7 Use

7.1 Opening the charge port door

7.1.1 Unlocked charge port door

An unlocked charge port door can be opened by pressing the charge port door.

7.1.2 Locked charge port door



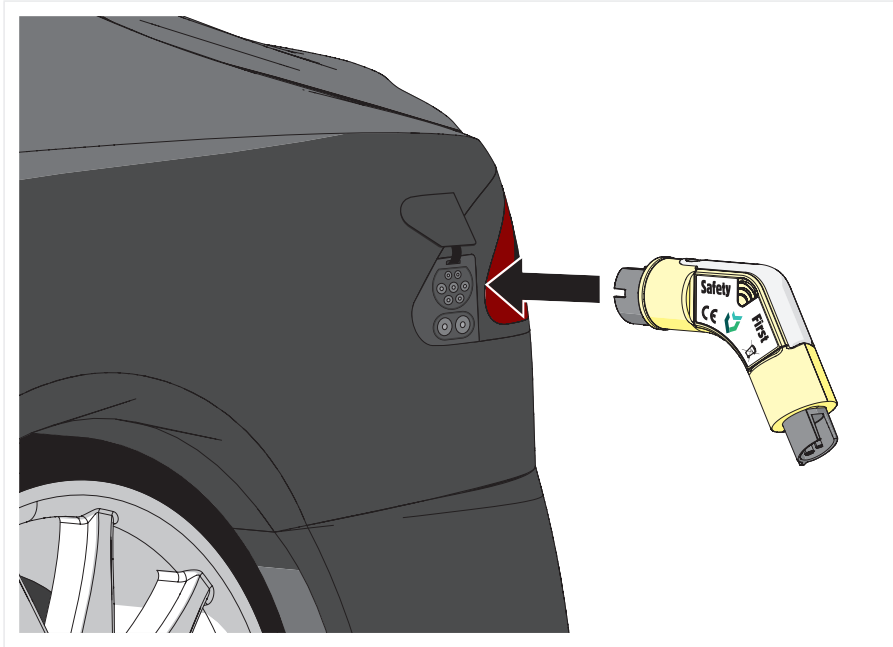
A locked charge port door can be opened with the spudger as follows:

1. Press the spudger behind the charge port door.
2. Use of the spudger:
 - Tesla vehicle: Move the spudger upwards with a lever movement to open the charge port door.
 - Other type of vehicle: Move the spudger towards the front of the vehicle with a lever movement to open the charge port door.



7.2 Connecting

- ❗ Make sure you use the correct plug type when connecting the Emergency-plug. Refer to Chapter 2.2 **Plug Types** for further information.



Connect the Emergency-plug as follows:

1. Open the vehicle's charge port door.
2. Press the Emergency-plug power button.

The Emergency-plug starts the self-test function. Refer to Chapter 6.2. Use the self-test function for more information.

3. Insert the Emergency-plug into the vehicle charging port. Press the Emergency-plug in firmly. The LED indicator first flashes yellow and then lights up blue.

- ❗ The LED indicator should light up blue within a maximum of 5 seconds. If the LED indicator reacts differently, refer to Chapter 2.3. LED indicator colour coding.
- ❗ Check which type of charging connection should be used. Refer to Chapter 2.2 **Plug Types** for further information.
- ❗ The vehicle may give an error message when the Emergency-plug is connected. This error message is caused because the vehicle does not receive power through the charging port. This does not affect the proper functioning of the Emergency-plug. The error message disappears automatically when the Emergency-plug is disconnected and the vehicle is switched on again via the power button.



7.3 Disconnecting

⚠ DANGER

Crushing hazard!

- Always ensure the vehicle is secured according to locally applicable protocols before disconnecting the Emergency-plug from the vehicle.

Disconnect the Emergency-plug as follows:

1. Pull the Emergency-plug to disconnect it from the charging port.

The LED indicator flashes red.

7.4 Switching off

Switch off the Emergency-plug as follows:

1. Press and hold the power button. The LED indicators light up yellow sequentially.
2. Wait until the LED indicator flashes orange.
3. Release the power button.

The Emergency-plug is switched off.

NOTICE

- When the Emergency-plug is not turned off, it remains on until the batteries are depleted.

7.5 Accessories

You can order a protective cover for the Emergency-plug. Contact Total Safety Solutions to order the protective cover.



8 Problem Solving

Problem	Possible cause	Possible solution
Check that the Emergency-plug is connected to the vehicle. The LED indicator lights up blue first, then the LED indicator lights up red.	The contact with the vehicle is broken.	<ol style="list-style-type: none"> 1. Remove the Emergency-plug from the vehicle. 2. Switch off the Emergency-plug. 3. Wait 5 seconds. 4. Switch on the Emergency-plug. 5. Insert the Emergency-plug into the vehicle charging port.
After completing the self-test, the LED indicator lights up red.	The Emergency-plug is damaged.	Always follow local protocols.
After completing the self-test and inserting the Emergency-plug in the vehicle, the LED indicator remains green.	The wiring in the vehicle's charging port is defective.	The Emergency-plug can no longer make contact with the vehicle. Please contact Total Safety Solutions.
	The wiring in the Emergency-plug is defective.	
	The vehicle's airbags have been activated. The vehicle is de-energised and cannot make contact with the Emergency-plug via the charging port.	The vehicle is safe to approach. There is no need to use the Emergency-plug.

9 Maintenance

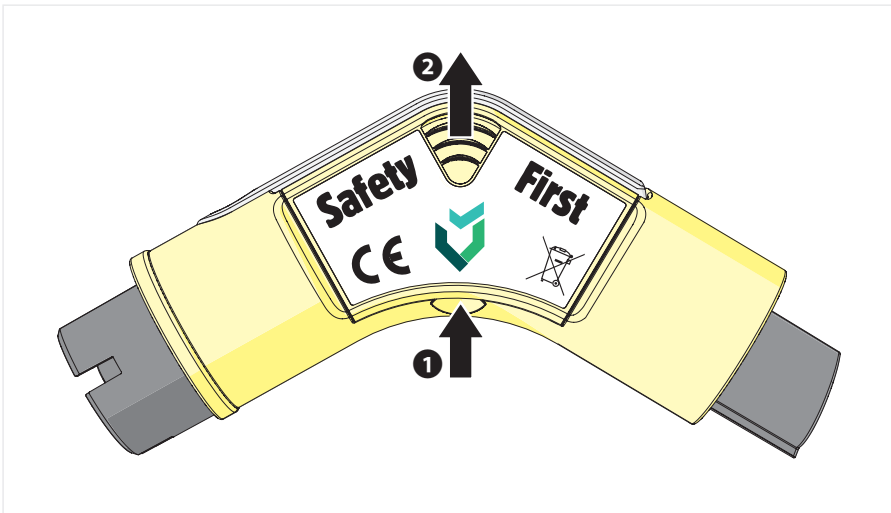
9.1 User maintenance

9.1.1 Replacing the batteries

NOTICE

- Do not use rechargeable or Lithium batteries in the Emergency-plug. The battery life of the Emergency-plug cannot be guaranteed when using non-recommended battery types.

The Emergency-plug batteries are depleted if the LED indicator flashes red or does not light up when the power button is pressed.



Replace the Emergency-plug batteries as follows:

1. Push the battery cover lock up and slide the battery cover backwards to remove the battery cover.
2. Remove the three AA batteries.
3. Insert three new AA batteries into the Emergency-plug.
- i** When replacing the batteries for the first time, use the spare batteries supplied to prevent the spare batteries from draining.
4. Replace the battery cover on the Emergency-plug.

NOTICE

- Always ensure that the plus (+) and minus (-) markings on the battery match the plus (+) and minus (-) markings in the Emergency-plug when inserting the batteries.



9.1.2 Updating the software

Register the Emergency-plug to be kept informed of software updates.

After registration, you will be automatically informed of new software updates.

You can install software updates for the Emergency-plug as follows:

1. Visit www.totalsafetysolutions.nl
2. Go to 'Warranty'.
3. Follow the online instructions.

9.1.3 Cleaning

NOTICE

- Do not use harsh chemical cleaning agents to clean the Emergency-plug. Always use a soft, damp cloth to clean the Emergency-plug.

Clean the Emergency-plug after every use.

Clean the Emergency-plug as follows:

1. Clean the Emergency-plug housing with a soft, damp cloth.
2. Dry the Emergency-plug housing with a soft, dry cloth.
3. Clean the connections with a soft, dry cloth.
4. Check the plug connections for sand and other dirt. If necessary, use an air compressor to blow the sand and other dirt out of the plug connections.

9.2 Supplier maintenance

It is recommended to have the Emergency-plug serviced annually.

During the annual service, the Emergency-plug is checked for defects and the software is updated to the latest version.

For service options and more information, visit www.totalsafetysolutions.nl

10 Disposal

In the event of a defective Emergency-plug, first contact Total Safety Solutions. It may still be possible to repair the Emergency-plug. If the Emergency-plug needs to be disposed of, follow the locally applicable rules.

11 Conformity

Total Safety Solutions hereby declares that the radio equipment of the Emergency-plug conforms to Directive 2014/53/EU. Visit emergency-plug.com/C1 for the full text of the EU declaration of conformity.



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