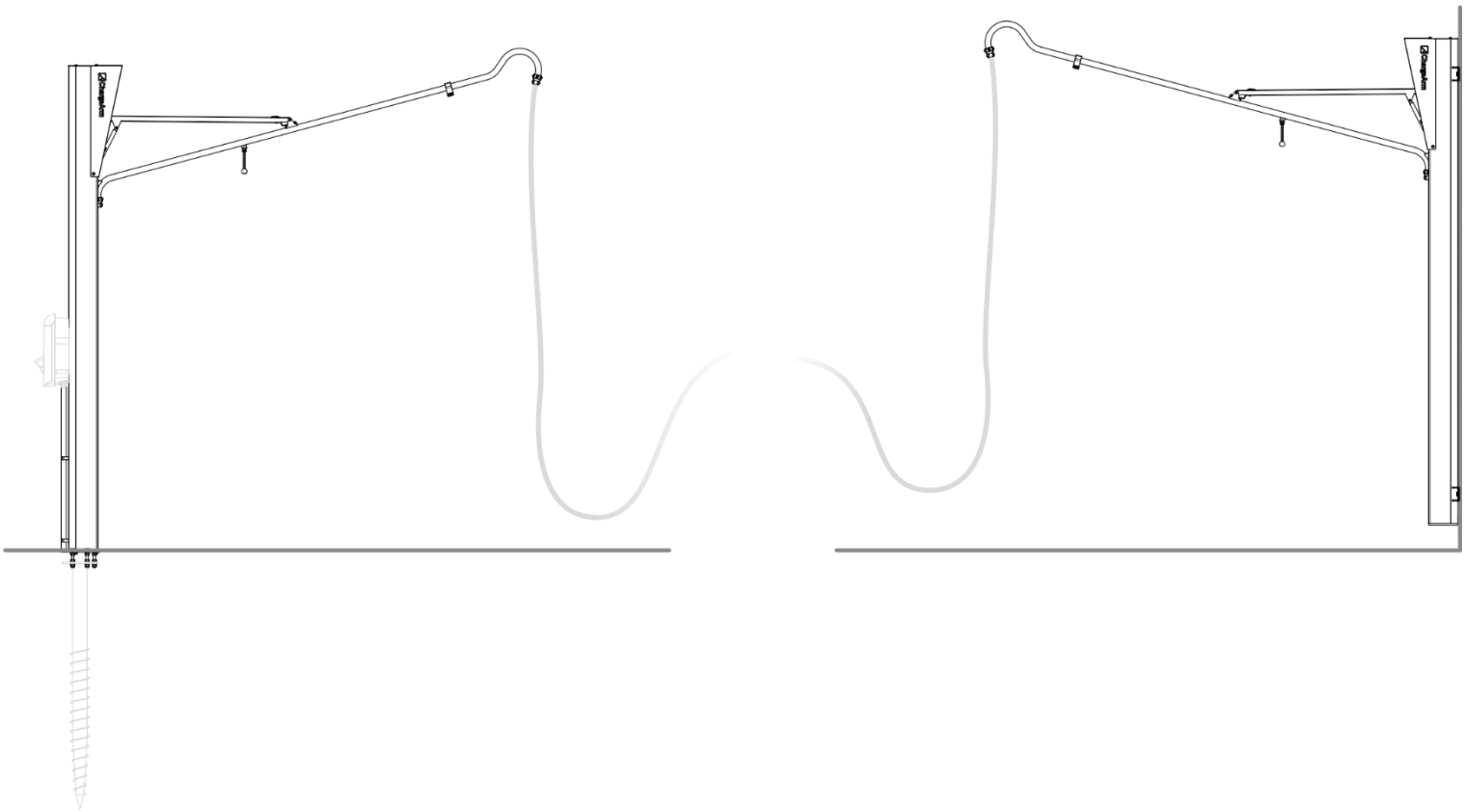
ChargeArm

ChargeArm

User Manual



ChargeArm

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1. CE Declaration of conformity

ChargeArm bv
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2013DK Haarlem
The Netherlands

+31235513600
info@chargearm.com

declare under our sole responsibility that the following product

Equipment: ChargeArm
Brand name: ChargeArm
Model/type: CA01

is in conformity with the

Directive 2006/42/EG of the European parliament and the council of 17 May 2006 on machinery, and amending Directive 95/16/EC.

Haarlem, 21 February 2022

Manufacturer representative:
ChargeArm bv

Camille van den Brande

2. Introduction

Congratulations with the purchase of your ChargeArm.

The ChargeArm can be installed as a freestanding or wall mounted retractable arm for your EV charging cable. This user manual covers both versions of the ChargeArm.

The charge box and charge cable are not included with the ChargeArm. This document only describes the use of the ChargeArm, not the charge box.

This document is intended for the ChargeArm user. The installation of the ChargeArm must be executed by a trained professional. The installation is described in the documents: *Installation manual ChargeArm Foundation Screw* and *Installation Manual ChargeArm Wall Mount* .

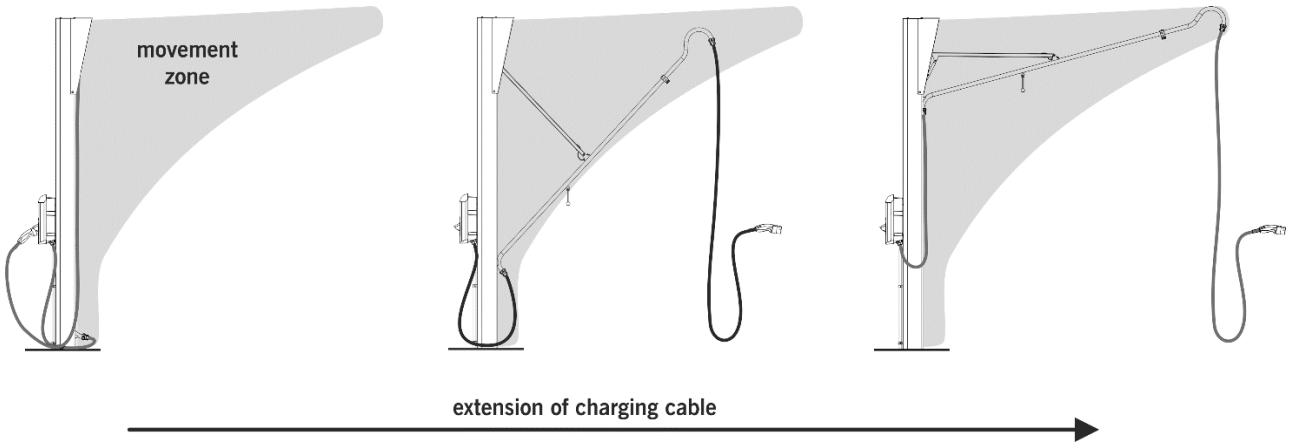
The ChargeArm is intended to guide your charging cable over an area, such as a pavement, in a safe and user friendly manner. Should the ChargeArm extend over public domain, please check with you local authorities if this is permitted.

Your installer is obligated to install the ChargeArm in combination with a charge box and charging cable in accordance with local legislation. If the installation is not executed according to the installation manual and local legislation the warranty of the ChargeArm will be deemed null and void.

ChargeArm b.v. (a Limited company in The Netherlands) is not responsible for any damage that may occur as a result of incorrect installation or use of the ChargeArm.

The ChargeArm allows for the mounting of many types of charge boxes to the upright of the ChargeArm in a variety of ways. In this document a specific charge box is mounted to the rear of freestanding ChargeArm. This configuration is only explanatory and the operation should be identical for other mounting options.

3. Safety



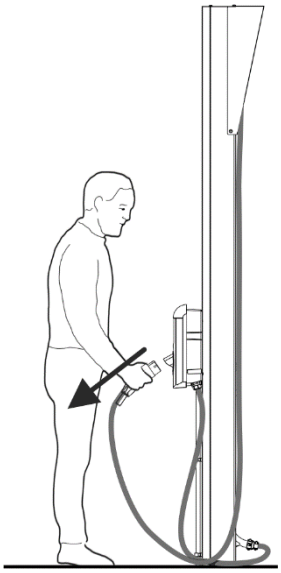
- Only extend the ChargeArm when charging your vehicle. Do not leave it extended when not in use.
- Do not extend or retract the arm of the ChargeArm whilst bystanders or objects are within the movement zone of the ChargeArm.
- Children or inexperienced users should not operate the ChargeArm. When in doubt block the movement of the ChargeArm with the optional ChargeArm lock (see 7, part 1577.600).
- Always study the user manual before instigating maintenance or repairs to the ChargeArm.
- Only use components that have been supplied with the ChargeArm for operating the ChargeArm.
- Do not alter the construction of the ChargeArm and do not use the ChargeArm for functions other than a retractable EV charging cable arm, for example as a support for a sun shade.
- Do not temporarily hang objects on the ChargeArm.
- Do not remove or loosen screws or bolts pertaining to the ChargeArm.
- Always extend and retract the ChargeArm in the manner described in chapter 4 so as to avoid fingers, hands or clothing being trapped in the ChargeArm structure.
- Do not use the ChargeArm when it is damaged.
- While extending the arm, only pull the charge cable gently in the direction of the arm movement and not sideways. A sideways movement can damage the mechanism or arm and may lead to dangerous situations.
- When the arm is extended do not pull the cable sideways. This could damage the mechanism or arm and also lead to dangerous situations.
- Do not try to hang from the ChargeArm or pull the Charging Cable harshly downwards.
- Do not use the ChargeArm during heavy storms, when it is snowing or there is freezing rain. The formation of ice on the ChargeArm may damage the product or harm the user.
- Unqualified installation, maintenance or operation can damage the ChargeArm or cause harm. This product has a CE marking attached to it. Do not remove this type plate. State the information on the type plate when you contact your installer or ChargeArm specialist.
- Make sure the charging connector is in a holder when not in use. This holder is often part of the charging box or can be purchased as a separate product.

- Check on a regular basis if greenery is blocking the movement of the arm. Trim away vegetation if necessary. Do not use a strimmer near the base of the ChargeArm as it may damage the charging cable.

4. Use

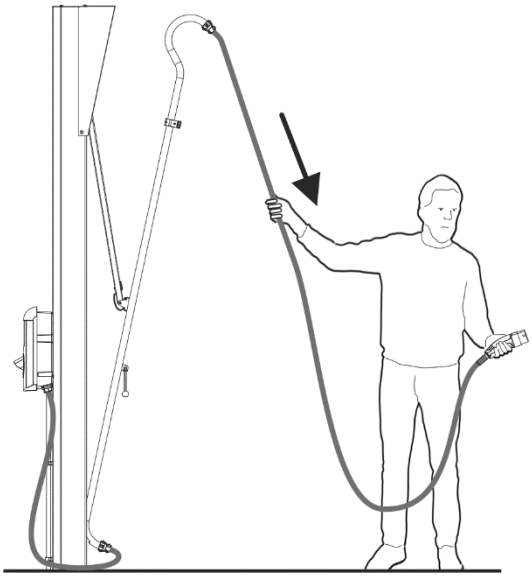
This document describes a freestanding ChargeArm with a charge box mounted to the rear of the upright. This charge box has a holding position for the charging connector when it is not in use. The ChargeArm can be installed in multiple ways, such as the wall mounted version, but in general the manner of use will be the same.

1. Release the Charge cable:



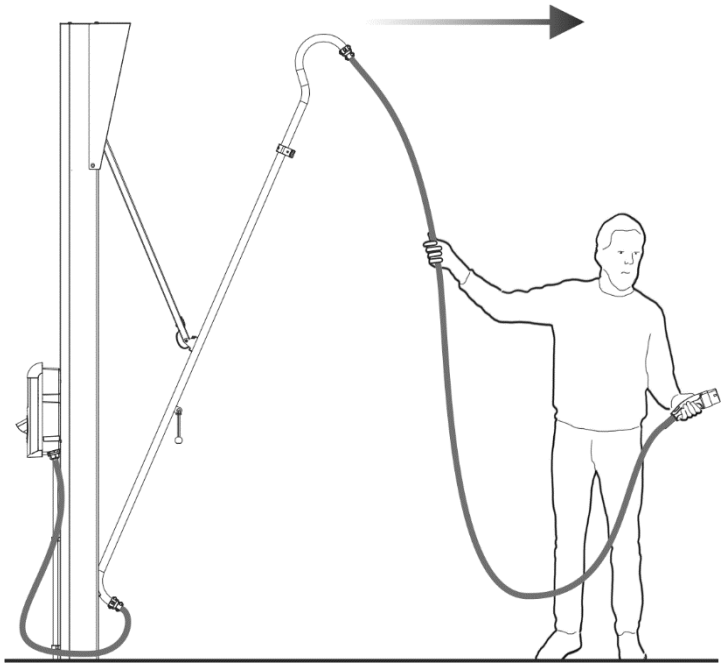
- Depending on your installation this can be from the charge box or from a separate connector holder mounted somewhere else.

2. Pull out the arm:



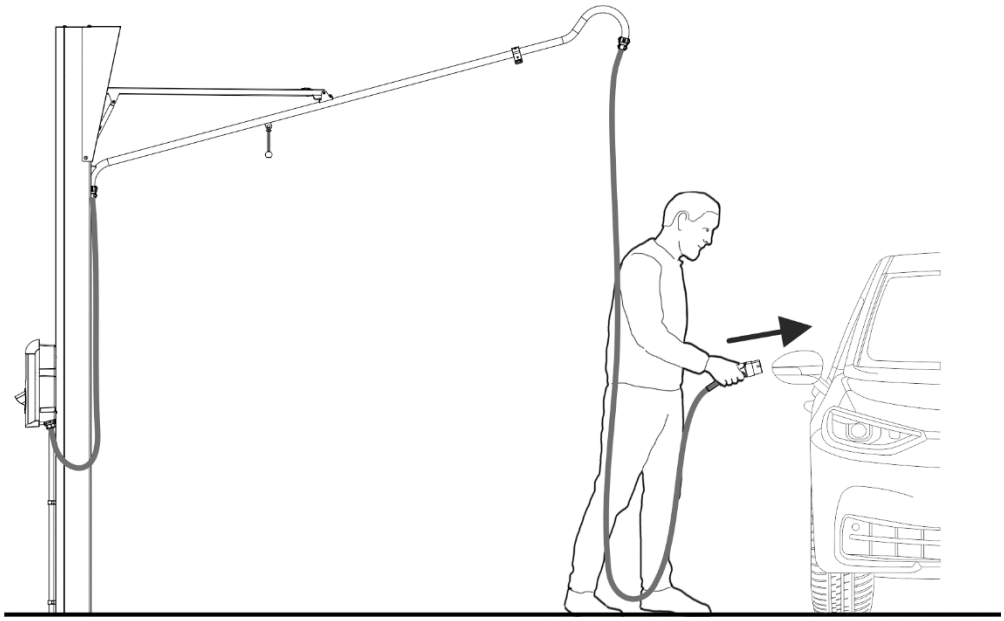
- Be careful that no one is standing in between you and the ChargeArm. (See 3, Safety of movement zone for the arm)
- Pull the cable gently with one hand whilst holding the cable connector in your other hand.

3. Let the arm fly out:



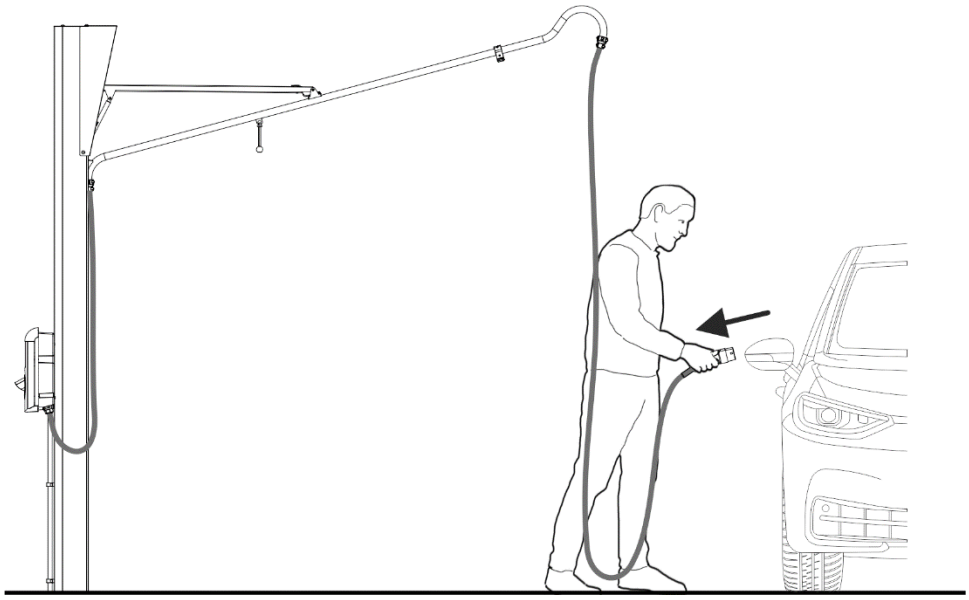
- Pull gently on the charge cable and let the arm automatically fly out.
- Make sure no one is standing in the movement zone of the arm.

4. Connect the charge cable to the car:



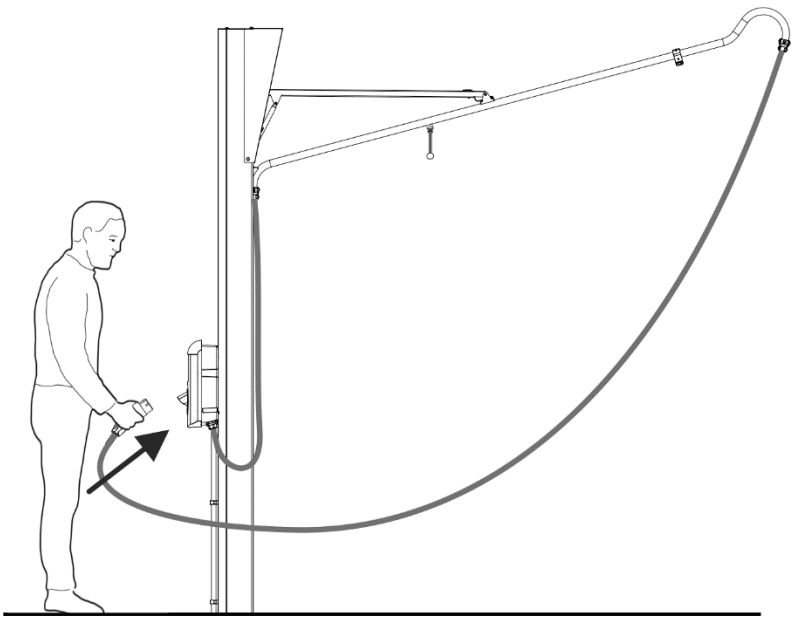
- Follow the instructions of your charge box and car for connecting correctly.

5. <u>After charging, disconnect the charging cable:</u>



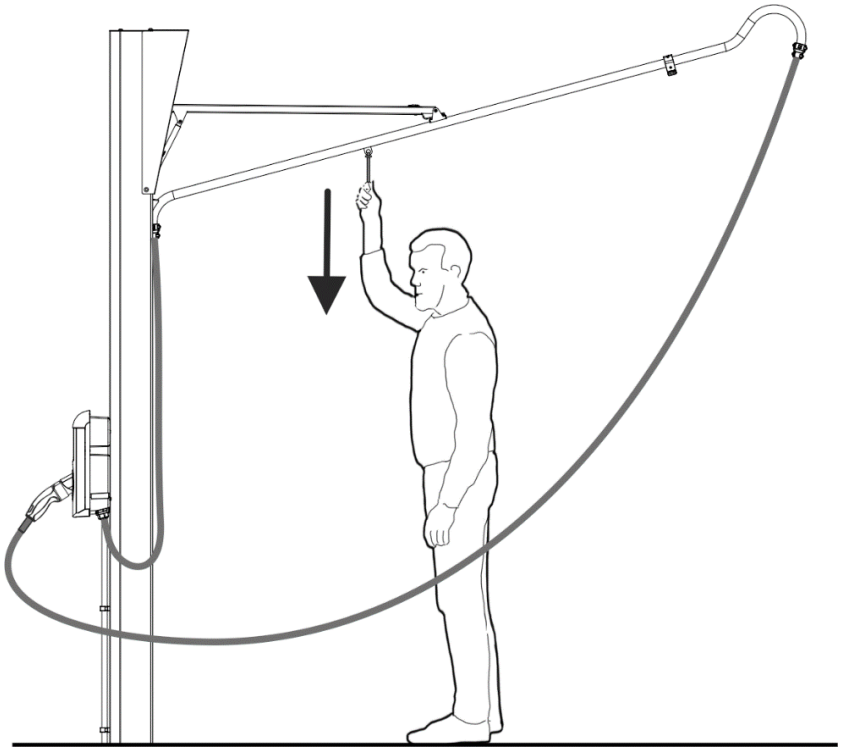
- Follow the procedure as described in your car's manual.

6. <u>Put the charge cable connector back in its holder:</u>



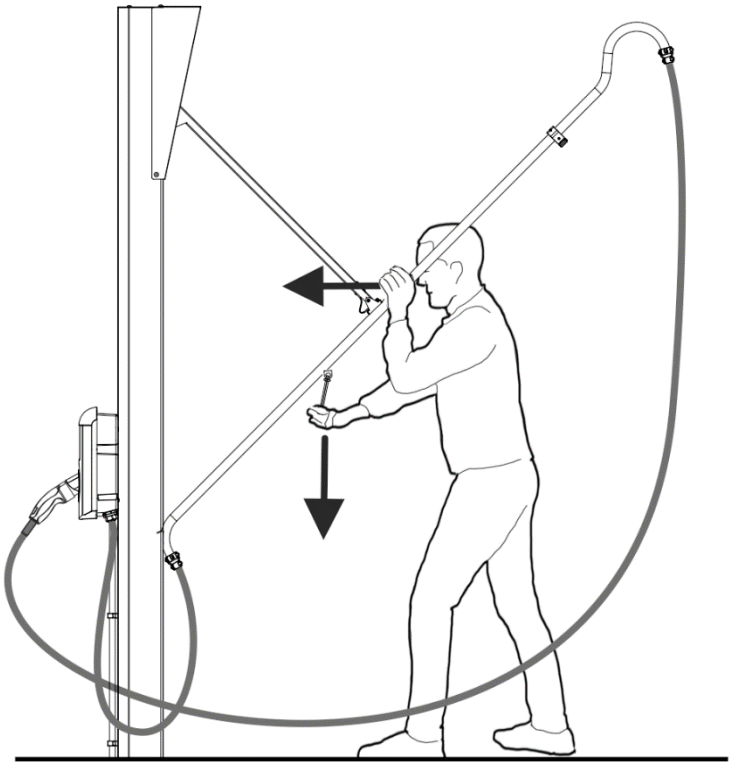
- Depending on your installation this can also be a different holder.

7. Pull down the ChargeArm using the pull cord:



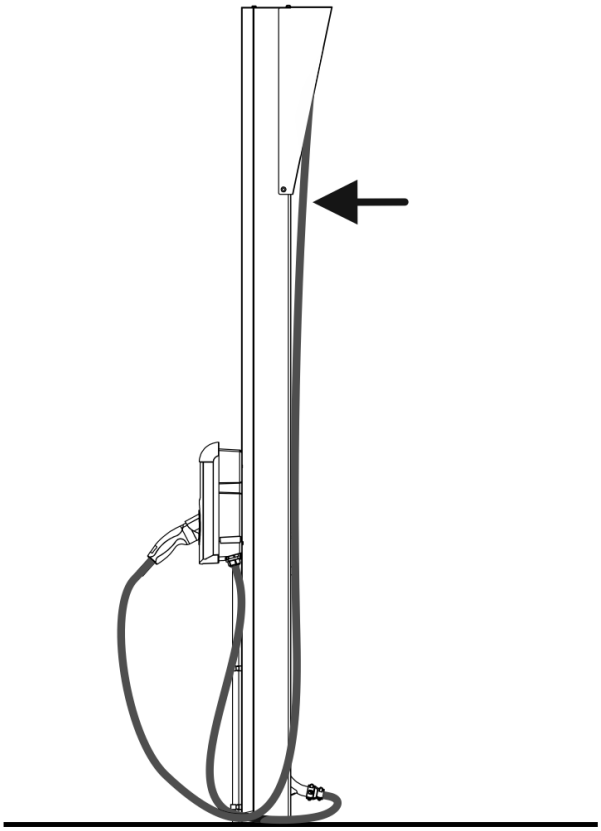
- Make sure no one is interfering with the movement of the arm. (See 3, Safety for the movement zone of the arm)
- Start pulling down the arm using the pull cord.

8. Move the arm to the fully closed position:



- Whilst still pulling down on the pull cord use your other hand to push the arm inwards.
- Try to move the arm in a constant & fluid movement. If you stop the gas lift will push the arm back outwards.
- Do not grip around the arm so as to ensure that your fingers do not become trapped in the mechanism.

9. <u>Push the cable into the cable clamp to achieve a tidy look for your ChargeArm:</u>



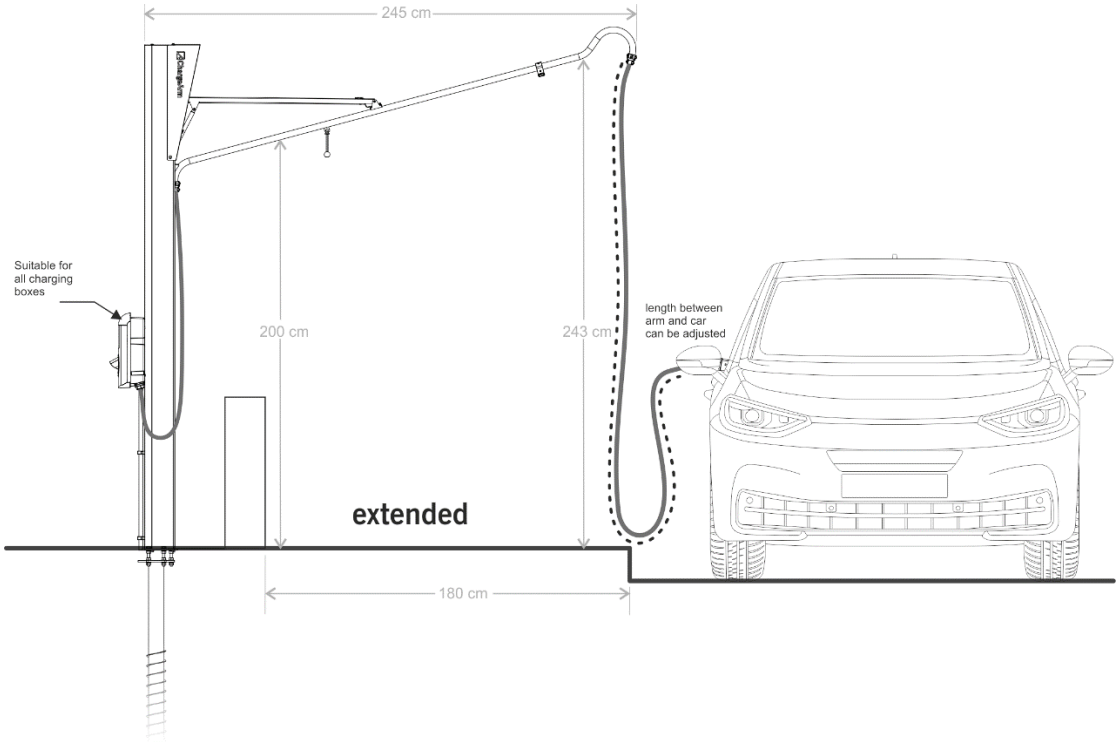
- This feature is only intended to tidy up the cable. It is recommended however not doing so will not affect the operation.

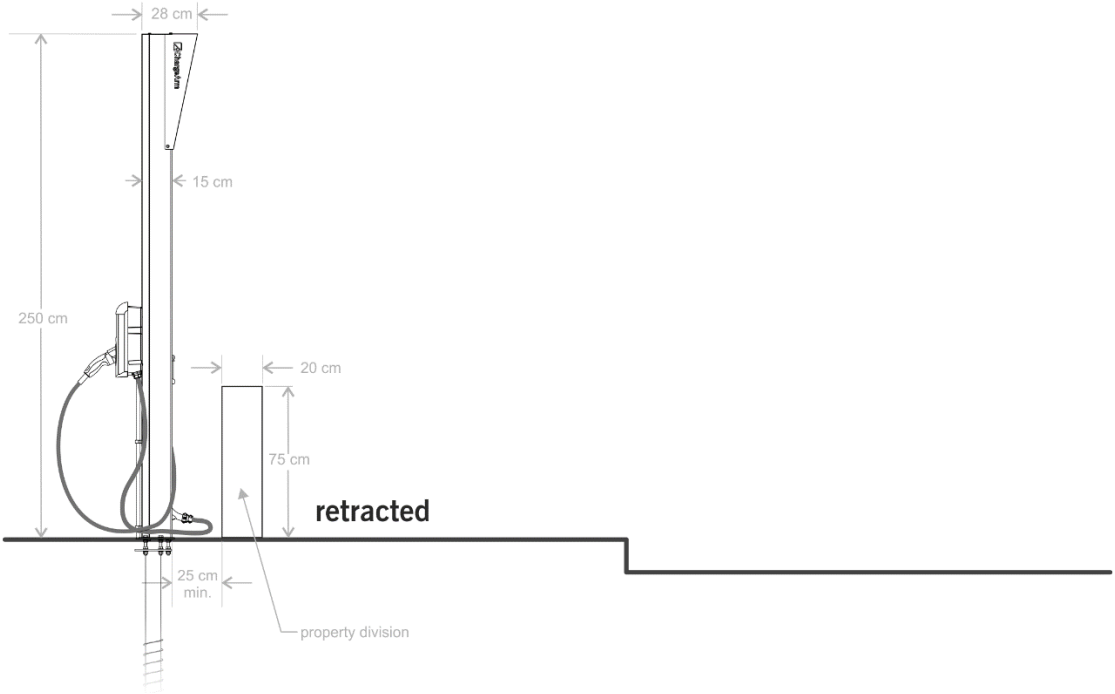
5. Maintenance

- Remove dirt from the base and inside cavity of the ChargeArm upright structure on a regular basis. This can be done by hand a brush or a portable vacuum cleaner.
- To minimize the amount of dirt accumulating around and within the base of the ChargeArm it is advised to have fixed paving, a grid or gravel around the base of the ChargeArm.
- The ChargeArm should only be cleaned with wet cloth and mild detergents such as car shampoo.
- Do not use a jet washer to clean the ChargeArm.
- Verify on a regular basis if the ChargeArm moves freely and fully extends and retracts and when doing so that no parts are damaged. If the ChargeArm does not achieve the fully extended position it is possible that the gas lift needs to be replaced. For gas lift replacement contact your installer. Only a dedicated gas lift may be used which can be ordered by your installer. Do not use a different type of gas lift as this will alter the articulation characteristics of the ChargeArm.
- If the gas lift is damaged or has lost its force, do not use the ChargeArm until the gas lift has been replaced.
- It is advised to replace the gas lift every 5 years.
- Always retract the ChargeArm when heavy storms, snow or freezing rain are forecast. The formation of ice on the ChargeArm may damage the product or harm the user.
- Make sure the movement of the arm is not obstructed by vegetation or trees.
- Check on a regular basis if the foundation of the ChargeArm is still firm and solid.
- Check on a regular basis whether the strain reliefs are securely in place and fully fastened.
- Check possible wear on the charging cable on a regular basis, in particular near the strain reliefs on either end of the arm.

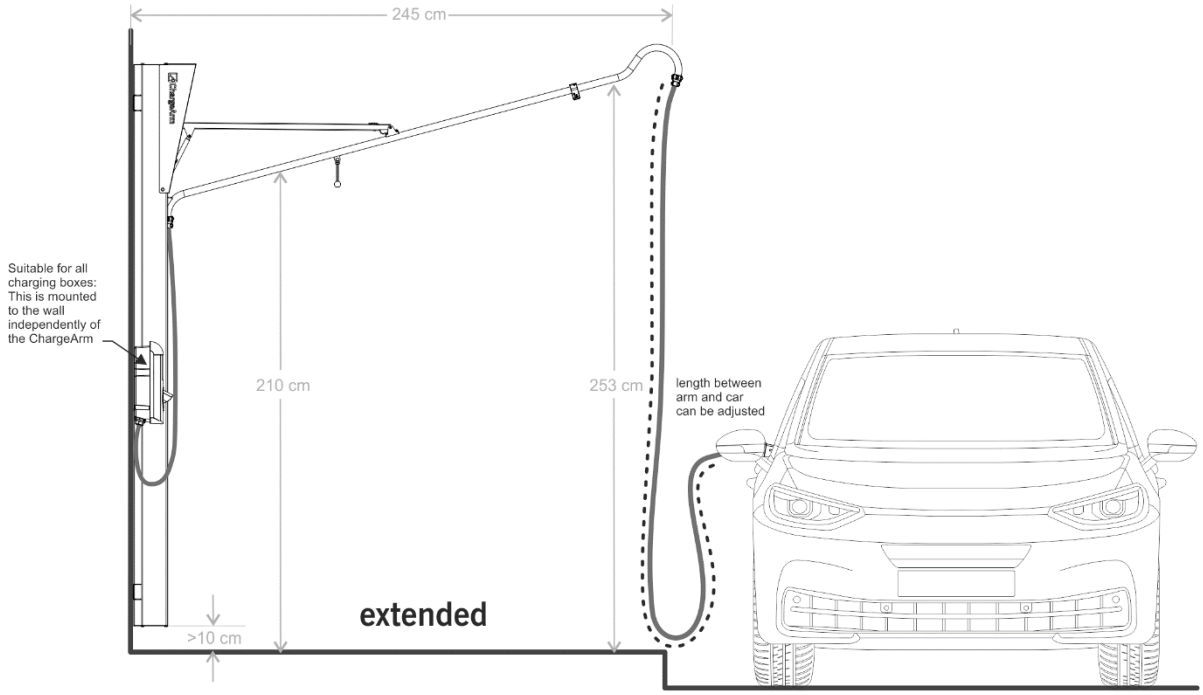
6. Product specifications

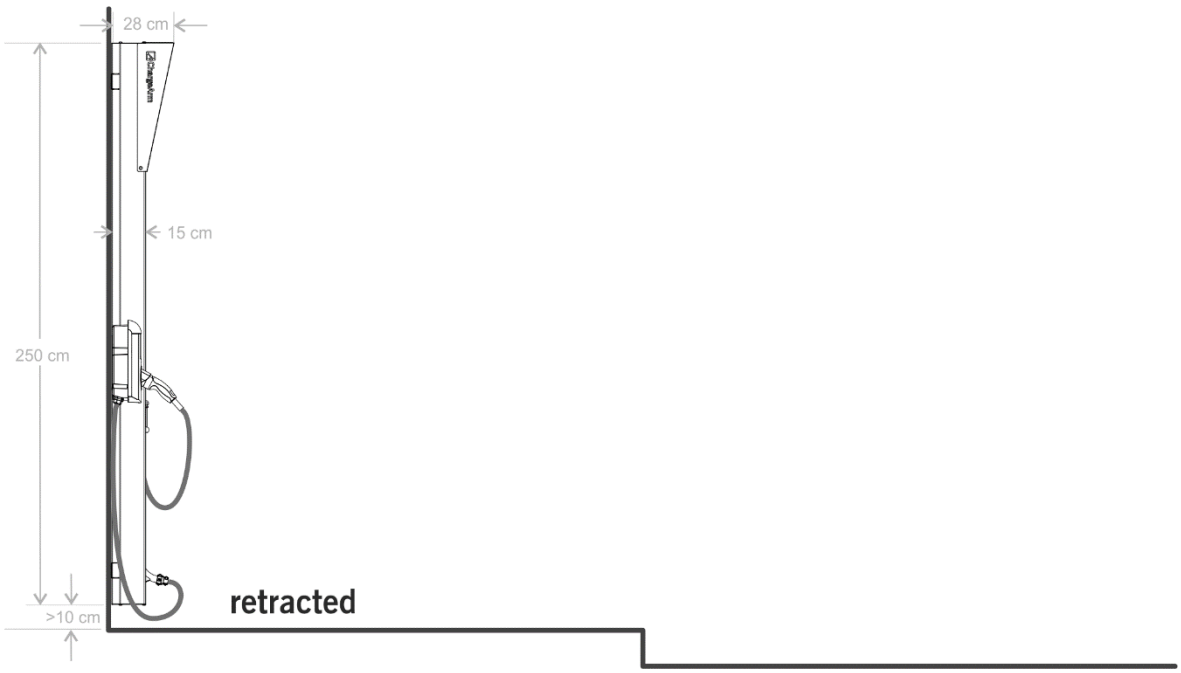
Freestanding version





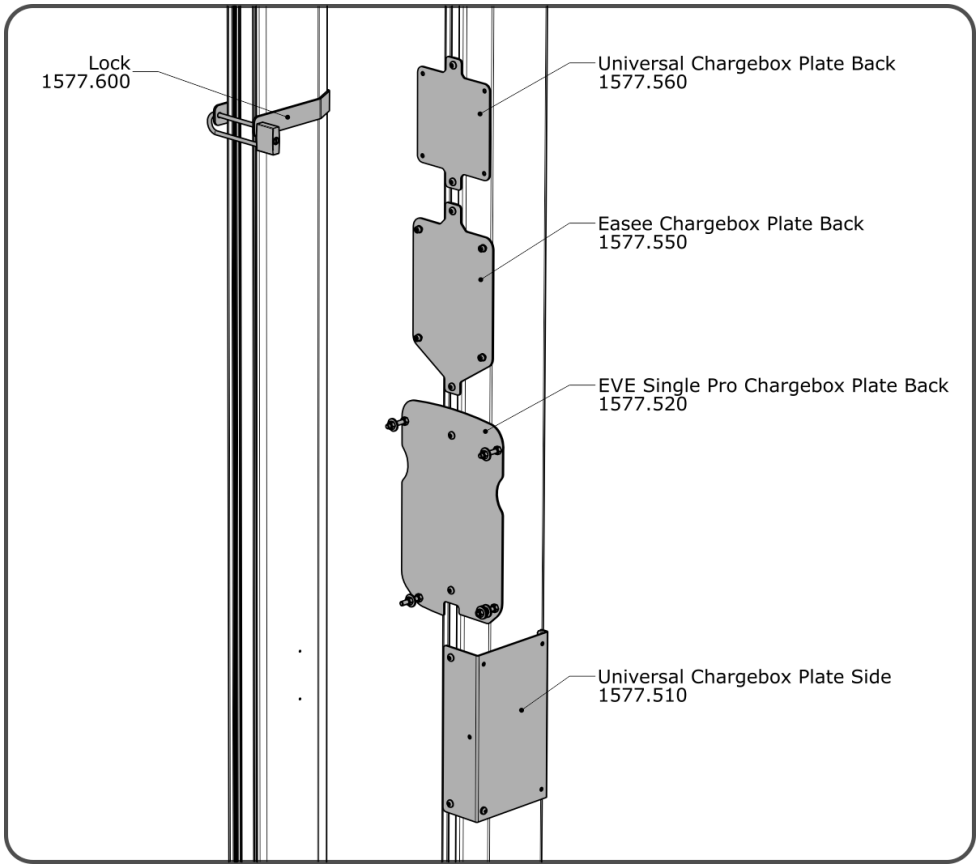
Wall mounted version





7. Mounting accessories

During the installation of your ChargeArm it is likely that a choice has already been made for a charge box and it's method of mounting. If during the life of the ChargeArm a new charge box needs to be mounted the following mounting options are available:



It is possible to lock the operation of the ChargeArm with the optional Lock. This will prevent unwanted extension of the arm.

8. Troubleshooting

The ChargeArm does not extend when pulling the charge cable or the pull cord:

- Check if the optional lock is in use. If so, remove the lock.
- Check if something is blocking the movement of the carriage wheels within the upright profile. If so, remove the obstruction and try again.
- Check if the arm is deformed. Contact your installer if you notice any deformation.
- Do not use any lubricants in the upright of the ChargeArm. The track wheels inside the arm are designed to run without any lubrication.

The ChargeArm makes a loud noise when retracting:

- Check if the arm is deformed. Contact your installer if you notice any deformation.
- Do not use any lubricants in the column of the ChargeArm. The track wheels inside the arm are designed to run without any lubrication.

The ChargeArm does not fully extend or retract:

- Check if something is blocking the movement of the carriage wheels within the upright profile. If so, remove the obstruction and try again.
- Extend the arm and check if the arm returns to the fully extended position when pulling the arm down slightly. If it remains static in the new position it is possible that the gas lift is not functioning properly anymore. Contact your installer for a replacement. The force of the gas lift is dependent on the ambient temperature. It is normal for the gas lift to be weaker in very cold weather and stronger in hot weather. The ChargeArm is designed to operate in ambient temperatures of -20 to 40 °C.

9. Storage & transport

In the case of a complete product replacement the removal of the ChargeArm should be executed by the installer. For storage and transport the original ChargeArm packaging should be used to retain any possible warranty conditions.

10. Warranty

For warranty we refer to the installer's warranty. Excluded from warranty are:

- Damage caused by excessive use of the ChargeArm
- Misuse of the ChargeArm, such as using it as a support for objects not intended to be attached to the ChargeArm.
- Insufficient maintenance
- Normal wear and tear as a result of normal ChargeArm use
- Discoloration of the materials caused by weather influences
- Damage caused by third parties or abnormal circumstances such as fire and storm damage

11. Notes

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The latest version of this document may be downloaded via: https://chargearm.com

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