



# USER MANUAL



***PREH***

Electronic sliding rear door





Congratulations, you have equipped your vehicle with a **PREH**, electric sliding rear door.

We hope you benefit from its use.



**PREH** is very easy to use, as indicated in the following instructions.

Please read these instructions before using the device.

## MANUAL SYMBOLS



**NOTE**



**PROCEDURE**



**PAY ATTENTION – Important information**

The manual is composed by 5 chapters and the chapters 3 and 4 are specific for the product use:

1. **General information** - Pag. 2
2. **Safety** - Pag. 2
3. **Use on vehicle** - Pag. 3
4. **What to do if ...** - Pag. 6
5. **Maintenance** - Pag. 7



Compliant with all relevant characteristics of the MACHINERY DIRECTIVE 2006/42/CE and the ELECTROMAGNETIC COMPATIBILITY 2014/30/CE.

## 1. General Information

The system PREH enables the rear left door of a car to make a sliding movement for an easy loading by the driver of the folded wheelchair inside the car.

A switch on the left of the dashboard allows to operate an electric motor fixed on the ground of the car and mechanically joint by an arm to the original door.

It is provided by a manual emergency system.

Possible installation in the most types of cars with rear door with wing and in some cars with rear left sliding door.

## 2. Safety

The system must only be used for the purposes it was created for; any other use is considered as improper. CARROZZERIA 71 S.r.l. is not liable for any damage caused by incorrect system use.

Explain how PREH works to anyone who has to work on your vehicle (car dealer, repair centre, mechanic, etc.), and also to all those who use it.

We recommend giving the phone number of the system installer to the person in charge of carrying out maintenance and repairs, so that indications can be given if required.



If it is necessary to effectuate maintenance operations and repairs to the vehicle, we advise you to give to the operator the telephone number of the installer of the system for further indications.



It is advisable, after 2 years, in collaboration with your local Handytech Centre, to check the status of the whole system and maybe to replace some parts.

Moreover, we remember to you, that out of the warranty period, the maintenance program is at Your discretion and risk, but the advice is to follow it carefully, because the negligence could cause malfunctions of the system and could create dangers during the utilization of the device.

Maintenance operations of the device during the warranty period and out the warranty period are to be borne by the customer.



The manufacturer guarantees the product for 24 months, only if the maintenance operations have been implemented by an authorized Handytech Dealer.

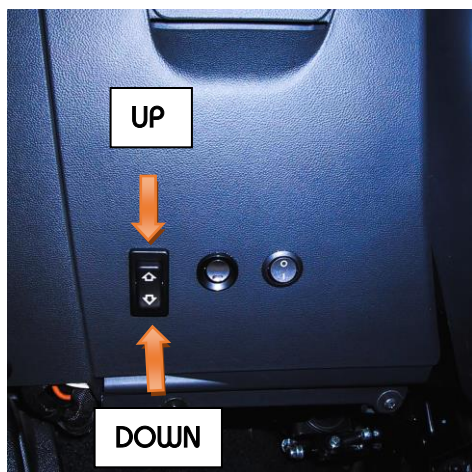


Using PREH, take care that the front left door is open so to not obstruct the free movement of the rear door. Take care that during the working of the PREH there are no people, animals or things that can obstruct the normal working.

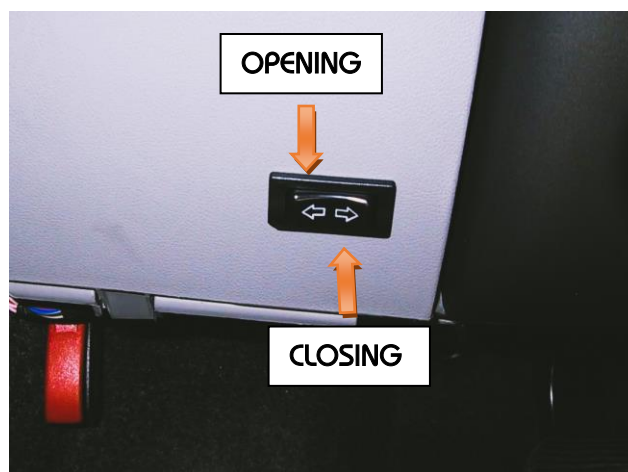
It is necessary that during the opening and the closing of the door the front door is open and there are not obstacles between the door and the part of the car where the door leans.

### 3. Use on vehicle

- ❑ Use the system on a level road after applying the hand break.
- ❑ Open completely the front left door of the car.
- ❑ Make the passage from the wheelchair to the driving seat and then fold the wheelchair.
- ❑ Check that there are no obstacles to the working of the door, push the button on the left of the dashboard like in Picture 1. Keep pushed until the door stops completely opened. Releasing the pressing on the button, the door stops.



Picture 1



Picture 2

- ❑ Put the folded wheelchair inside the car. Three possible ways:
  - manually with your arms strength (Picture 3,4,5)



Picture 3



Picture 4



Picture5

- using the loading winch (Cod. VSTRO) Picture 6

- using the loading robot (Cod. VSCHO) Picture 7



Picture 6



Picture 7

In any case, after the loading operation, it is necessary to verify that the wheelchair is safely blocked inside the car and that it can't move during the drive, creating danger.

- ❑ After checking that there are not obstacles and that the front door is completely opened, push the button (Picture E) on the left of the dashboard and keep pushed until the door is completely closed. Releasing the pressing on the button, the door stops.
- ❑ Check the completely closing of the door and the good position of the wheelchair inside the car. Close the front left door, place yourself correctly on the driving seat and start the travel.
- ❑ Of course to unload the wheelchair you have to operate in opposite way.

#### 4. What to do if ...

##### 1. Pushing the button, the door does not move

- ✔ Verify the complete opening of the front left door (on some vehicles the installer can make unusable the sliding door if the front door is not completely opened)
- ✔ Verify that the fuse 20 A in the motor space or in the fuse holder of the car is integral (it will be explained where it is by the installer during the delivery of the vehicle).
- ✔ If there is installed also a robot (VSCHO), be sure that the sliding trolley is completely closed because it has a limit switch that allows the working of the door only when the trolley is completely closed.

##### 2. During the closing and the opening, the door does not move but the motor is working because the noise of its rotation is clearly perceivable.

- ✔ Verify the correct tightening of the restoration lever of the manual emergency unhooking, as indicated in the part for the use in case of emergency (see point 4).

##### 3. During the opening or the closing, you are not able to close or open completely the door, causing the fuse's interruption.

- ✔ Verify that there are not obstacles (for example the wheelchair).

##### 4. After the operations listed before you are not able to use the PREH system: it will be necessary to use the system in emergency conditions.

- ✔ Lift the red emergency handle fixed near the driving seat (Pictures 8, 9); now the door is not more bound mechanically to the electric motor and it is possible to move it manually pushing towards the back part of the car.



Picture 8

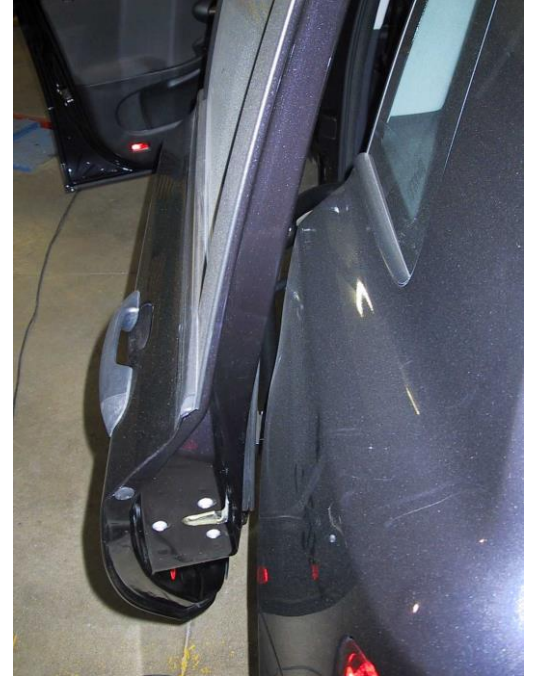


Picture 9

- During the opening in emergency conditions take care to not let collide the door with the rear mudguard (Picture 10, 11), in that the limit switch that stops during the normal use is not more active.



Picture 10 (with active limit switch)



Picture 11 (without limit switch)

- Load and unload the wheelchair and then close the door.
- Push the door towards the front part of the car until the original gaskets and then turn anti-clockwise the restoration handle in the front part of the electric motor.
- In case of optional restoration handle it is necessary to screw in the hole M5 the supplied bolt M5 that allows to press the lever to effect the restoration.
- To allow a correct hanging of the motor during the anti-clockwise movement of the lever, it will be necessary to move lightly back and forward the door, so that the gear that binds the electric motor of the door can mate.
- These operations must be effected only one time, because they do not permit to effect a perfect closing of the door, therefore it is necessary to reach an Handytech centre as soon as possible.



**If your system has a problem that is not listed, quickly contact your nearest Handytech Dealer.**

## **MAINTENANCE TO BE DONE EXCLUSIVELY BY HANDYTECH DEALERS**

### **First check: Km. 1.500 or 3 months**

- Check the tightening of the bolts that fix the system PREH to the car and to the door.
- Check the tightening of screws and bolts of the system PREH
- Check the lubrication of the sliding parts.
- Check visually the electric connection between battery and system, verifying that there are not oxidations on the electric contacts.
- Check the correct working of the emergency unhooking lever and the restoration lever.
- Verify visually the correct closing of the door.
- Verify the correct working of the system
- Where present, verify the integrity of the cable that allows the working of the eventual electric windows of the door and of the loud speakers.
- If necessary, make adjustments on the points of regulation to optimize the closing of the door.
- **Test the car in motion and verify eventual noises or clearances.**

### **Checks after 12, 24 months and yearly**

- Repeat the checks at 1500 Km.

### **PAY ATTENTION:**

After 2 years we suggest to verify with the Handytech dealer the condition of your system and eventually replace some parts.

Moreover, we remind that after the warranty period, the maintenance schedule rests on your discretion, but we suggest to follow it carefully because your negligence could cause anomalies to the systems and dangers during the driving.

All maintenance operations of the system during and after the warranty period are at complete charge of the customer.

## **WARRANTY: 24 MONTHS OR 80,000 KM**

Km displayed at the moment of delivery: \_\_\_\_\_



**RESERVED TO INSTALLERS**  
*Installer's Notes*

**Fuse's position**

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**Emergency handle's position**

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**Other information**

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Dealer:

SCAN ME



Problems during your trip?  
Check the Handytech Network