

USER MANUAL



HT - PUSH
HT - PUSH ECO

Vertical brake





Congratulations, you have equipped your vehicle with a **HT-PUSH / HT-PUSH ECO** braking system.

We hope you benefit from its use.



HT-PUSH/HT-PUSH ECO 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. 1
2. **Safety** - Pag. 1
3. **Use on vehicle** - Pag. 2
4. **What to do if ...** - Pag. 3
5. **Maintenance** - Pag. 3



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

*Instructions made according to standard conformation; changes can be made according to the user's needs and characteristics of the vehicle.
The manufacturer reserves the right to modify the product without notice.*

1. General information

HT-PUSH / HT-PUSH ECO slows down or stops your vehicle using a telescopic bracket connected to a brake lever, which is in turn connected to the original brake pedal; all you have to do is push the lever.

The pressure on the levers slows the vehicle gradually.

The system comes with two push-buttons (not present in the ECO version): one is black, used as a horn, and the other is red, used as a brake block (as by law); use the red button to block the lever in the total or partial braking position in order to position the gear lever.

The brake lever has an ergonomic knob to guarantee a safe grip.

The original brake pedal can be used by a non-disabled person without having to move the HT-PUSH / HT-PUSH ECO lever, thanks to the telescopic shaft that connects them.

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 the HT-PUSH / HT-PUSH ECO 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.



While using HT-PUSH / HT-PUSH ECO, make sure that there are no objects (mat, etc.) between the brake pedal and the vehicle floor.

Also make sure that the sliding movement of the brake shaft is not obstructed by objects for some reasons.



The HT-PUSH / HT-PUSH ECO brake lever must never be used as a handhold because if pulled strongly instead of being pushed, the locking device that holds it in the home position can cause excessive system backlash.

3. Use on vehicle

□ Check operations

Once that the engine has started, we advise you to check the right working of the system with a forward push.

Press the black button (*Picture 1*) to check the working of the horn (make sure not to be near places where the traffic law does not allow it).



Picture 1



Picture 2

Press the red button (*Picture 2*) to check the right working of the brake block.

To operate the brake block, fully push the HT-PUSH lever and press the red button at the same time; release the red button before reducing the pressure on the lever.

The vehicle gear stick can be used while the lever is blocked.

To unblock the HT-PUSH brake lever, just push it forward and release it, easing the pressure.

□ Moving the vehicle

Once that checks are carried out, push the brake lever forward, press the red button and decrease the pressure on the lever before releasing the red button.

At this point the lever is blocked and it will be possible to select the gear, and in case of ECO version, the lever must be kept in position by the user.

Vehicle with mechanical gears

Move the gear lever from neutral to first or into reverse, according to the manoeuvre that is to be carried out. Press the brake lever again, which automatically releases the block, or you can release the pressure on the lever (in case of ECO version) and you can move the vehicle.

Vehicle with automatic or sequential gears

Move the gear lever from P or N to position D (or another gear) or R, according to the manoeuvre to be made. Press the brake lever again, which automatically releases the block, or you can release the pressure on the lever (in case of ECO version) and you can move the vehicle.

When using the system initially, we advise making some test stops; this will allow you to evaluate the pressure to be used on the brake lever in order to brake gradually.



The brake **MUST ONLY** be blocked while the vehicle is not moving.

□ Use of the horn

To activate the horn, press the black button; horn use is subordinated by traffic laws.

□ Stopping the vehicle

After using the vehicle and before switching off the engine, block the brake following the procedure previously described, position the gear lever in neutral (mechanical gearbox) or at P or N (automatic gearbox), pull up the handbrake, and push the brake lever forward to deactivate the block.



Do not use the brake block like a handbrake, because the pressure of the original handbrake, or in some cases even the vehicle braking system, can fall. This does not guarantee total braking system efficiency when the vehicle engine is switched off. In some vehicles, the stop lights remain lit when the brake is pressed, even if the key is no longer in the ignition.

□ Use by non-disabled people

The original brake can be normally used.

Warn users that the HT-PUSH / HT-PUSH ECO has been equipped, because in some cases it can partly obstacle the normal movements of non-disabled people, as shown in *Picture 3*.



Picture 3

4. What to do if ...

1. After starting the motor, the brake lever is in a very forward position and is very hard to push.
 - ✔ Make sure the lever has not remained blocked by mistake: if it has, release it.
2. The brake drum does not connect when the red key is pressed.
 - ✔ There may be a problem with the electrical system of the block, or a mechanical fault; go to your local Handytech Centre to repair them.
3. The horn does not sound when the black key is pressed
 - ✔ Check the original vehicle fuse, and replace it, if necessary with one of the same rating; if the problem persists, go to your nearest Handytech Centre.
4. When using the brake lever, you realize that it makes an empty run from its home position.
 - ✔ Go to your nearest Handytech Centre.

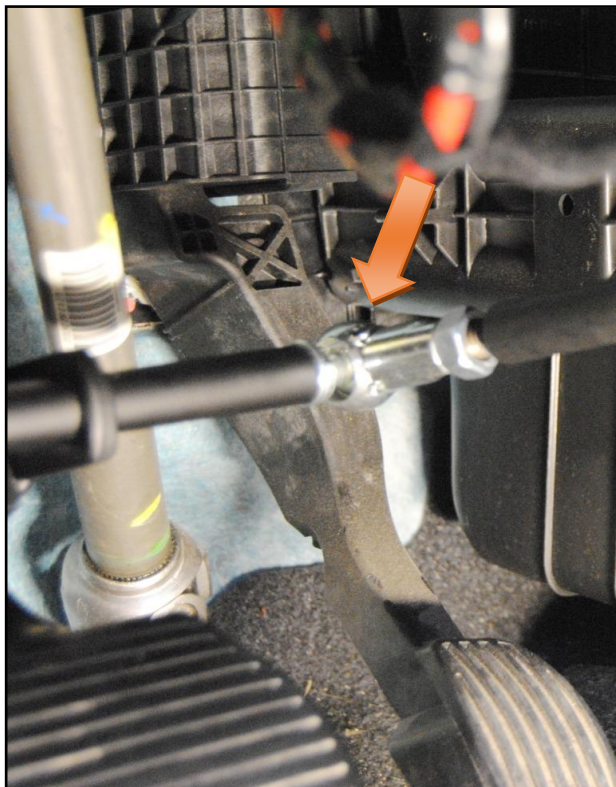


If your system has a problem that is not listed, quickly contact the nearest Handytech Dealer.

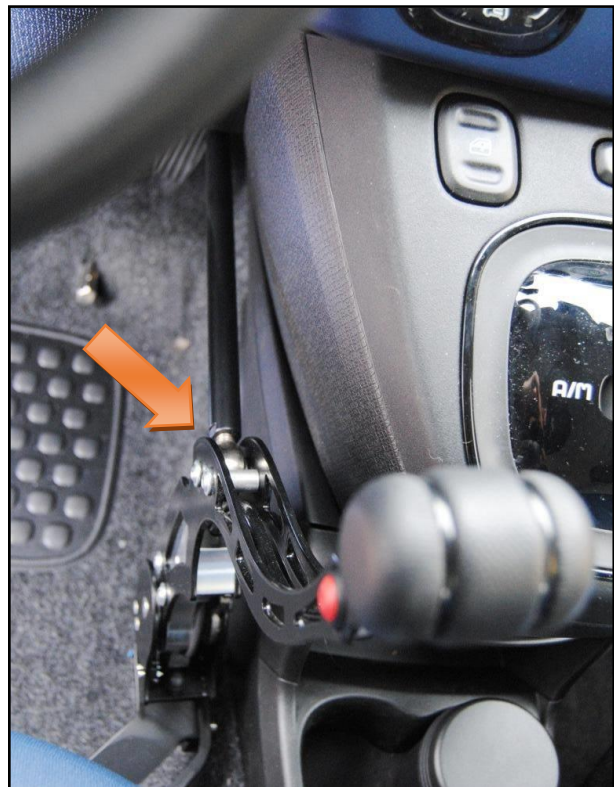
MAINTENANCE TO BE DONE EXCLUSIVELY BY HANDYTECH DEALERS

First check: 1,500 km

- ❑ Check if the horn is working.
- ❑ Check brake drum operation
- ❑ Check tightness and sliding.
- ❑ Check the tightness of the various parts and for any irregular allowance
- ❑ Make sure the lever rotates on its pin correctly
- ❑ Check the articulated heads at the ends of the telescopic shaft and lubricate them (*Pictures 4,5*).



Picture 4



Picture 5

- ❑ Check telescopic shaft sliding and lubricate it
- ❑ Make sure braking is correct, adjusting if necessary.
- ❑ **Check how the vehicle works while it is moving.**

Subsequent checks

25,000 km (or after 8 months)

- Repeat the checks carried out at 1,500 km.
- Check how the vehicle works while it is moving.**

50,000 km (or after 16 months)

- Repeat the checks carried out at 1,500 km.
- It is advisable to replace the ball joint that connects the telescopic shaft to the brake pedal (if it is worn).
- Check how the vehicle works while it is moving.**

75,000 km (or 24 months)

- Repeat the checks carried out at 1,500 km.
- Check how the vehicle works while it is moving.**

100,00 - 125,000 - 150,000 km or at least once a year

- Repeat the checks carried out at 1,500 km.
- It is advisable to replace the parts that are subject to wear (heads, sliding shafts, etc.) when checking the part conditions.
- Check how the vehicle works while it is moving.**

Above 175,000 km

- Repeat the checks carried out at 1,500 km.
- It is also advisable, together with your usual Handytech Centre, to check the system state and substitute any parts that need to be replaced.
- Check how the vehicle works while it is moving**

PAY ATTENTION:

After 2 years go to your usual Handytech Centre to have the system state checked and to substitute any parts that need to be replaced.

When the guarantee ends the maintenance program is at your own discretion, but our advice is to follow it scrupulously because neglect can cause system faults, problems and create dangerous situations while driving.

The device maintenance interventions, both when covered by guarantee and not, are at the full charge of the client.

GUARANTEE: 24 MONTHS OR 80,000 KM

Km displayed at the moment of delivery: _____



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SCAN ME



Problems during your trip?
Check the Handytech Network