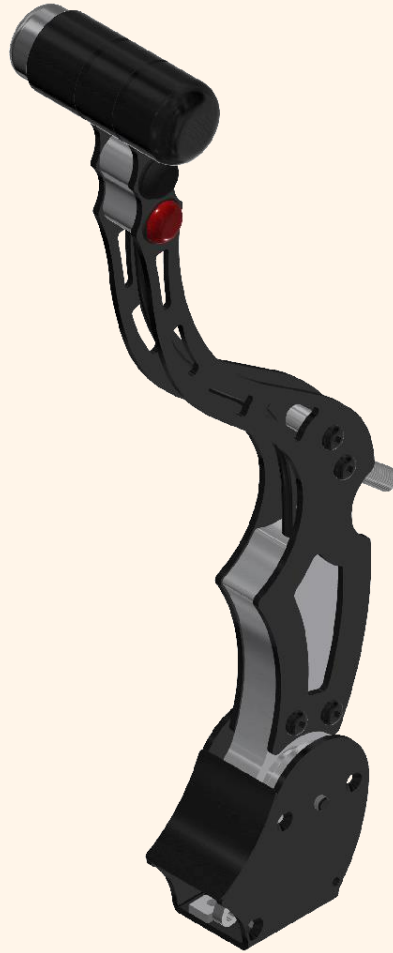




# USER MANUAL



***SPEED & BRAKE-E***  
***SPEED & BRAKE-E ECO***

Push brake & electronic accelerator



 **HandyTech**<sup>®</sup>  
www.handytech.it  
TRAVEL EXPLORE LIVE 



Congratulations, you have equipped your vehicle with a **HT-SPEED&BRAKE E / HT-SPEED&BRAKE E ECO** acceleration system.

We hope you benefit from its use.



**HT-SPEED&BRAKE E / HT-SPEED&BRAKE E 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. 5**
- 5. Maintenance - Pag. 6**



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

By pushing a lever forward, SPEED & BRAKE E / SPEED&BRAKE E ECO allows you to slow or stop the vehicle through a telescopic rod that connects the lever to the original brake pedal.

The pressure with which you push on the lever allows you to brake gradually.

In addition, you can accelerate gradually by pressing lightly on the side with your thumb.

The lever has two buttons: a black one used as a horn and a red one used to lock the brake (as required by law); the latter allows you to lock the lever in the complete or partial brake position so you can move the gear lever.

The lever has an ergonomic knob to ensure solid grip.

Able-bodied users can use the original brake pedal without moving the SPEED & BRAKE E / SPEED & BRAKE E ECO lever, thanks to the telescopic shaft connecting 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 SPEED & BRAKE E / SPEED & BRAKE E ECO works to anyone who will work on your vehicle (dealer, body shop, mechanic, etc.) as well as anyone who will use it.

If your vehicle needs maintenance or repairs, we recommend giving whoever is responsible for the work the phone number of the technician who installed the system for any clarifications.



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 Centre.



When using SPEED & BRAKE E / SPEED & BRAKE E ECO, make sure there are no foreign objects (mat, etc.) between the brake pedal and the floor of the vehicle.

Also make sure that no foreign objects prevent the brake shaft from sliding for any reason.



**Never use the SPEED & BRAKE E / SPEED & BRAKE E ECO lever to pull yourself up as, if forcefully pulled instead of being pushed, the stop that keeps it in the zero position may give rise to excessive play in the system.**

### 3. Use on vehicle

#### □ Activating the system and checks

After having started the vehicle's engine, you have 30 seconds to activate the system. Press the on button so that the LED on the button is lit, indicating that the system is activated (*Picture 1*).



**The PARK button must not be pressed while you are activating the device.**



*Picture 1*



*Picture 2*

We also recommend making sure the acceleration system works by gently pressing the cursor with your thumb (*Picture 2*) before beginning to drive.

Finally, keep the system slightly accelerated and push the lever to make sure the latter deactivates acceleration.

Press the black button (*Picture 3*) (if present) to make sure the horn works (after you've ascertained that you are not in an area where traffic laws do not allow it).



*Picture 3*



*Picture 4*

Press the red button (if present) to make sure the brake lock (*Picture 4*) works.



**The brake lock works by pushing the SPEED & BRAKE-E lever all the way and pressing the red button at the same time. Release the button before you stop pushing the lever.**

When the lever is locked, you can use the vehicle's gear lever.

To release the SPEED & BRAKE E lever, simply push it forward and let it go.



#### □ **Moving the vehicle**

After having run the various checks, engage the gear and gently press the cursor (*Picture 5*) to accelerate and move the vehicle.



*Picture 5*



*Picture 6*

The vehicle will automatically shift gears whether it has an automatic or sequential manual transmission, and it will also downshift.

Many vehicles in this category are equipped with a Kick Down switch that allows the vehicle to downshift a gear, increasing the rpm considerably for passing or the like. This switch is activated in the last stretch of acceleration; as such, simply press the cursor all the way down for this effect.

#### □ **Using the PARK button**

The PARK button reduces device acceleration, making it more gradual.

This function is especially useful when you first start using the new vehicle, while parking, driving uphill from a standstill, etc.

The PARK button can be activated while you use the vehicle; pressing it (*Picture 6*) reduces the device's capacity to accelerate.

#### □ **Stopping the vehicle**

After having used the vehicle, the system deactivates automatically when the vehicle is turned off. It switches off about 3 seconds after deactivation.

This is useful to prevent an able-bodied user from somehow using the SPEED & BRAKE E / SPEED & BRAKE E ECO improperly, damaging the system, people and/or property.

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

1. The LED is on but the system isn't working:

- ✔ Make sure you haven't accidentally left the SPEED & BRAKE-E lever locked (as the brake always disables the accelerator).  
If the fault persists after this check, contact a Handytech Dealer.

2. The accelerator does not work after having activated the button:

- ✔ Make sure the LED on the on button is lit.  
If off: repeat the operation after having restarted the vehicle.  
If the fault persists, contact a Handytech Dealer.

3. The vehicle does not accelerate completely:

- ✔ Make sure you haven't activated the device with the PARK button pressed (repeat the activation operation).

4. The horn button doesn't work:

- ✔ Check the integrity of the original fuse of the horn button.  
If the fault persists, contact a Handytech Dealer.

5. Il blocco freno non funziona:

- ✔ Check the integrity of the fuse of 5 Ampere system's protection.  
If the fault persists, contact a Handytech Dealer.



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

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

### **First check: Km. 1,500**

#### **Electrical components**

- Check the tightness of +12V power and ground.
- Check that the wiring has not been cut or worn by contact with moving parts.
- Make sure the connectors are properly wired with the control unit.
- Check the correct working of the deactivation micro-switch of the accelerator.
- Check the correct working of the horn button (if present).
- Check the correct working of the brake lock button (if present).
- Make sure acceleration and braking are gradual.
- If kick down is present, make sure it activates properly (check by testing on the road).
- Lubricate and mechanically regulate the parts that compose the lever.

#### **Subsequent checks**

##### **KM. 25,000 (or after 8 months)**

Repeat the checks carried out at 1,500 km.

##### **KM. 50,000 (or after 16 months)**

Repeat the checks carried out at 1,500 km.

It is advisable to check the conditions of the parts that are subject to wear (joint balls, sliding rods, etc.), and replace them if necessary.

##### **KM. 75,000 (or after 16 months)**

Repeat the checks carried out at 1,500 km.

##### **KM. 100,000 - 125,000 (or at least once a year)**

Repeat the checks carried out at 1,500 km.

It is advisable to check the conditions of the parts that are subject to wear (joint balls, sliding rods, etc.), and replace them if necessary.

##### **KM. 150,000**

Repeat the checks carried out at 1,500 km.

It is advisable to check the conditions of the parts that are subject to wear (joint balls, sliding rods, etc.), and replace them if necessary.

##### **KM. 175,000 (or at least once a year)**

Repeat the checks carried out at 1,500 km.



#### **PAY ATTENTION:**

After 175,000 Km, it is also advisable, along with your trusted Handytech Centre, to check the system condition and replace any parts that need to be replaced.

Furthermore, we remind you that once the warranty expires, the maintenance program is at your discretion, but we recommend following it scrupulously, as neglecting it could cause system anomalies and inconveniences, in addition to being dangerous while driving.

Any maintenance work on the device shall be fully borne by the customer both when the device is covered by warranty and not.

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

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



**RESERVED TO INSTALLERS**

*Installer's Notes*

**Control unit positioning**

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**Other useful information**

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Dealer:

SCAN ME



Problems during your trip?  
Check the Handytech Network