

USER MANUAL



HT-SPEED UP/DOWN

Over / Under ring accelerator





Congratulations, you have equipped your vehicle with a **HT-SPEED UP / HT-SPEED DOWN** acceleration system.

We hope you benefit from its use.



HT-SPEED UP / HT-SPEED DOWN 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

HT-SPEED UP / HT-SPEED DOWN is a circular-shaped accelerator positioned above or below your steering wheel. It operates by moving a potentiometer that interacts with an electronic control unit; this unit has a microprocessor that is electrically connected to the original potentiometer of the vehicle accelerator.

HT-SPEED UP / HT-SPEED DOWN is activated by a button with built-in LED that is located on the dashboard. Pushing or pulling the circle gradually accelerates your vehicle.

Acceleration is automatically stopped when braking comes to its end phase.

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-SPEED UP / HT-SPEED DOWN 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.



Before using, make sure that the linear sliding movement of the circle installed on the steering wheel is not being obstructed by objects for some reason.

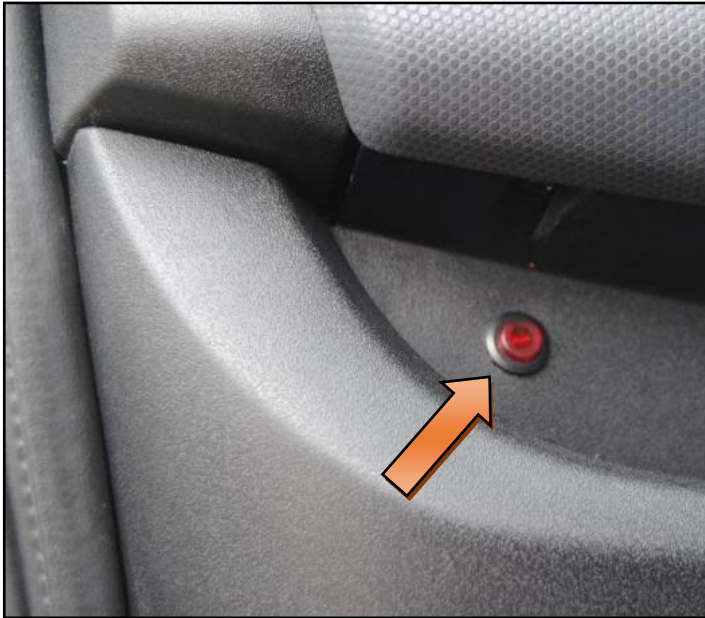
3. Use on vehicle

□ Activating the system and checks

After starting the vehicle engine, you have 30 seconds to activate the system. To do this, press the activation button; the LED lights up, indicating that the system has been activated (Picture 1).



Do not press PARK while the device is being activated.



Picture 1

We advise checking system operation by gently pulling or pushing your HT-SPEED UP / HT-SPEED DOWN (depends on which device is installed) before starting to move. In addition, keep the system gently pulled or pushed in order to keep the motor turning over, then press the brake to make sure that it disables acceleration.

□ Moving the vehicle

After having carried out the checks, put the vehicle in first gear, gently press or pull the circle (depending on which device is installed) to accelerate, making the vehicle move (Pictures 2 - 3).



Picture 2



Picture 3

Vehicles with mechanical gear boxes

To change gear, release the accelerator and take it to the rest position, insert a higher gear and then re-accelerate.

While changing to a lower gear, acceleration should be reduced or null when slowing. When facing an uphill slope, follow the procedure for changing to a higher gear.

Vehicles with automatic or sequential gear boxes

Press or pull the circle (depending on the device that is installed); when increasing and lowering speed the vehicle automatically changes the ratio no matter whether the gear box is automatic or sequential; the method used with a sequential gear box is the same as the method used with a mechanical gear box.

Many vehicles of this category have a Kick Down switch that takes the vehicle down one gear and can also notably increase the number of revolutions in order to overtake or go uphill. This switch activates during the last stretch of acceleration, therefore just press or pull the circle fully.

□ **Using the PARK button**

The PARK button reduces device acceleration, making it more gradual (Pictures 4 - 5). This is particularly useful when initially using the vehicle for parking, carrying out uphill starts, etc. The PARK button reduces device acceleration, and it can be activated while the vehicle is being used.



Picture 4



Picture 5

□ **Stopping the vehicle**

The system disables automatically after the vehicle has been used and after the engine has been switched off.

It takes about 3 seconds for the device to deactivate after the engine has been switched off.

This is useful for preventing a non-disabled person from using HT-SPEED UP / HT-SPEED DOWN incorrectly and damaging the system, people and/or things.

4. What to do if...

1. The LED is lit but the system does not work

- ✓ Make sure the handbrake has not been pulled up (because the brake always disables the accelerator).
If the problem continues after this check, contact your nearest Handytech Centre.

2. The accelerator does not work after activating the button

- Check if the activation LED is lit.
- ✓ If it is not, repeat the operation after having started the engine again.
If the problem continues, contact your nearest Handytech Centre.

3. The vehicle remains in acceleration or gently accelerated after the button has been activated

- The linear sliding system of the circle has not returned to zero because obstructed by foreign bodies:
✓ check.
If the problem continues, contact your nearest Handytech Centre.

4. The vehicle does not accelerate completely

- ✓ Make sure the device has not been activated with the PARK key pressed (repeat the activation process).



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: 1,500 km

Electrical components

- Check the tightness of the +12 V power supply and mass.
- Make sure the wiring has not been cut or worn because in contact with moving parts.
- Make sure the connectors are correctly coupled to the control unit.
- Check connection to the STOP switch or to the micro switch on the PUSH brake.
- Make sure the potentiometer signal applied to the linear sliding group is correctly sending the signal without any interruptions (to do this just accelerate and make sure that the system replies correctly).
- Make sure the kick down activates correctly if present (check with a road test).
- Check the tightness of the circle parts.
- Check the circle linear sliding system.

Subsequent checks

25,000 km (or after 8 months)

Repeat the checks carried out at 1,500 km.

50,000 km (or after 16 months)

Repeat the checks carried out at 1,500 km.

It is advisable to replace the potentiometer on the sliding group.

75,000 km (or after 16 months)

Repeat the checks carried out at 1,500 km.

100,000 - 125,000 km (or at least once a year)

Repeat the checks carried out at 1,500 km.

It is advisable to replace the potentiometer on the sliding group.

150,000 km

Repeat the checks carried out at 1,500 km.

It is advisable to replace the potentiometer on the sliding group.

175,000 km or at least once a year

Repeat the checks carried out at 1,500 km.

PAY ATTENTION:

After 175,000 kilometres 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 programme 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.

WARRANTY: 24 MONTHS OR 80,000 KM

Km displayed at the moment of delivery: _____



Trademark of CARROZZERIA 71 Srl

Strada Patro 3

14036 - Moncalvo - Italy

Tel: +39 (0)141-917665 / Fax: +39 (0)141-923979

info@handytech.it www.handytech.it

Dealer:

SCAN ME



Problems during your trip?
Check the Handytech Network