



Veigel North America
24291 Sorrentino Ct.
Clinton Township
Michigan 48035, USA

Operation Manual Hand Control

Phone 586-719-2092
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e-mail: jann@veigel-na.com

Part-No.: BHA01-BHA06

OPERATION MANUAL Classic HAND CONTROL

BASIC USER INSTRUCTIONS

Handicapped persons, not familiar with the use of a dual control, are better off making their first driving test on a proving ground or similar location.

The dual control for accelerator and main brake including linkage, cuts down the space and adjustment area of the driver's seat – handicapped or non-handicapped. Therefore special diligence for driving the vehicle is demanded.

Non-handicapped persons can drive by using the pedals, but:

- In order to minimize the risk, we recommend the vehicle not to be used by non-handicapped persons on a regular basis.
- Exceptions could be, among other things, test drives within the scope of service works or the temporary indisposition of the handicapped person.

SAFETY INSTRUCTIONS:

For handicapped persons, who only have a limited motivity to their legs, the use of a pedal shield for the accelerator and brake is mandatory in order to avoid an uncontrolled activation or blockage of the pedals.

This pedal shield is not included in the delivery of a hand control or the installation kit. It has to be ordered separately for the specific vehicle type.

Only persons, who are familiar with and depend on this hand control may drive this vehicle by means of this hand control.

For drivers who depend on the lockability of the brake pedal in this form, it is necessary and therefore allowed. For other drivers, who are able to drive regularly, it is not allowed to use this locking device, as the state of the art for regular vehicles requires different technical solutions.

Only for installation kits with adjustable limitation of the longitudinal seat adjustment:

When adjusting the seat forward in a high seating position, in some vehicle types it is possible for the hand control to be activated. Therefore the limitation device for the seat adjustment attached to the base rail should be adapted to the adjusted seat height. Installation kits with these adjustable limitation devices come with settings for the most unfavorable seat position (e.g. maximum seat height). **In case you would like to change these pre-settings, please see the instructions in the respective installation kit manual.**

When the restricted seat adjusting area is changed please check that the seat still does not collide with the hand control.



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Alterations or attachments in the area of the hand control, dashboard and center console are not permitted. Therefore it is not possible, for example, to attach brackets for cellular phones etc.

Additional instruction for non-handicapped drivers

If you want to drive with the hand control turned down (see exiting to the right), please make sure, that the accelerator handle is turned into a position, in which the accelerator is not activated unintentionally and the hand brake is not constrained. Please check, if with the turned down hand control, accelerator and brake pedal are easily moveable.

To accelerate, turn handle of hand control clockwise. Hold it in this position when the desired speed is reached.

To adjust the handle position pull handle back **strongly** and let go at the favored position (blocking adjustment). It can be adjusted from 12.30 to 4.30, everything else is blocked.



Adjusting range of the
accelerator handle

Brake

By pushing the accelerator handle forward the brake is activated. At the same time, by turning it counter-clockwise the accelerator is throttled. During the first braking tests please push gently, as for the activation of the hand control only small effort is needed!

As starting aid, for example when standing at a hill, at a light or when changing the cruising range in automatic transmission, the hand control is equipped with a brake lock button:



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In order to lock the brake, push handle forward into the brake position. Before letting go of the handle, push down and hold the brake lock button in front of the accelerator handle and release the handle: The pressure of the pedal now holds the lock!

To unlock, slightly push brake, the lock loosens automatically. There is no need to push the brake lock button again!

Attention!

The brake lock button is simply a starting aid, it does not replace the use of the regular parking brake (hand or foot parking brake), it is not allowed to use it when parking uphill/ downhill and leaving the car, as due to internal hydraulic leakage and the discharge of the car battery there definitely is no constant holding effect. To park the car, always use the parking brake and put the gear lever in P position or switch to first gear in manual transmission.

EXITING TO THE RIGHT

Prior to exiting to the right it is mandatory to stop the engine, as when turning down the hand control the accelerator could be activated unintentionally.

Exiting to the right is made easy by turning the hand control down backwards between the seats: (This is not possible in all vehicles, as there often is too little room between center console and driver's seat)

Push hand control forward into brake position and press brake lock button. Push locking lever at the rear edge of the bracket towards tunnel until the locking pin unlocks. Now sway locking lever backwards and turn hand control down backwards between the seats. If necessary push in cushion a little. The engine definitely needs to be turned off, as in this position the accelerator might be activated.

We recommend to pull off the key prior to exiting to the right.



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In order to get the hand control back in operating position, push hand lever forward again, fix or hold, sway locking lever back to the front, press it towards the tunnel and let the locking pin snap into the hole of the bracket. With the locking pin snapped in, the hand control automatically is back in the regular operating position.

Every 20000km or in an interval of a year all bearings (ball joints and slide bearing surfaces) have to be lubricated with a spray grease and all screws and attachments have to be checked for tight fit.

General instructions for the installation of the hand control

Scope of delivery



1. After installing, the accelerator and brake linkage parts that come with the installation kit (see installation kit manual) have to be attached to the hand control. In order to do so, first of all loosen socket head screw and take off dark cover part. Then press brake tube onto the ball head **and attach locking clip (picture 1)**. After loosening the pre-mounted locking washer, put the accelerator tube on the pin and reattach the locking (**picture 2**)

picture 1



picture 2



2. The hand control is mounted from the left to the base rail/base foot by means of two hexagonal screws M8. Use washers. **Tightening torque 20 Nm +/- 10%**
3. In order to take advantage of the full rotation angle of the accelerator handle, it is possible to:



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- a) move the fork head of the angled lever to the outer drilling in order to decrease the range of the accelerator. Thereto take off bolt of fork head, insert plastic slide bearing in outer drilling and reattach fork head.
- b) move the accelerator connection part on the accelerator pedal rail (see installation kit manual)



4. The brake or accelerator linkage has to be adjusted while the engine is running. Please check if it is easily moveable!
5. Adjust the counter nut on the brake link in such a way that the brake pedal is not being pushed out of its home position, as otherwise there is the danger, that with repeated use pressure builds up inside the cylinder and the brake starts to grind.
6. Pay attention during installation, that connecting parts, hand control and other equipment are freely moveable and do not collide with the steering column, the accelerator linkage or other parts of the vehicle. Keep the operating elements from blocking each other. **The free mobility of the hand control has to be guaranteed even in case of a possible breakdown of one braking circuit.**
7. Check if even when the hand control is turned down, the brake and gas pedal return to their starting position after being applied by foot.
8. The label of the hand control is situated underneath the cover cap on the base plate.



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Illustration of the labels mentioned above.

Veigel GmbH + Co. KG 74653 Künzelsau	
Typ : HA	Ausf.:
Typzeichen :	
Fabr.-Nr.:	50XXXX-XXX
Artikel-Nr.:	BHAXX

The mentioned BHAXX on the label is the part number of the hand control. It differs depending on the specific installation kit. The necessary hand control is named in the installation kit manual.

The entry 50XXXX-XXX states the fabrication number in order to trace the fabrication. The number consists of the production batch and serial number.