

<b>DNP16-01</b>	<b>MANUAL FOR INSTALLATION AND USE</b>	<b>OKATT</b> by agui
By: E. Irazu. Reviewed by: J. Fernández	<b>DNP16-01. PIVOTING BUFFER SUPPORT</b>	<b>BRAND PRODUCT DEPARTMENT</b>

## 1) INTRODUCTION

The purpose of this Manual is to describe the steps for the correct installation and use of the vertical buffer support.

## 2) WARRANTY

In order to understand and handle this product, you must be legally qualified to install elevators.

AGUI accepts liability, where applicable, for the products included in the shipment. The AGUI warranty may be rendered invalid if parts or components other than those described in these instructions are fitted.

AGUI cannot accept liability for any damage caused by incorrect handling or as the result of action other than that indicated in this manual. The product guarantee may be rendered invalid if used incorrectly or inappropriately.

All current regulations in force for elevator safety have been observed during the manufacture of this product. There may be risks posed to those handling or fitting the product.

It is not permitted, except where explicitly authorised:

- To use components other than those installed;
- To modify the product in any way;
- To install the product for a purpose other than that for which it is intended;
- To destroy any seal;
- To perform faulty or insufficient inspections and maintenance;
- To use accessories, parts or materials not supplied by AGUI, or that are not official AGUI parts.

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### 3) COMPONENTS OF THE KIT.

The kit consists of the vertical buffer support and a bag of accessories with a set of chocks and fixtures to support possible drops and compensate depth X to the fixation wall. The bag contains pieces for a regulation 5-30 (at 5 mm intervals) interspersed with a selection of chocks between the buffer support and the wall, and 35-80 (continuous mm regulation) through the use of fixtures.

#### VERTICAL BUFFER SUPPORT KIT



#### (VERTICAL BUFFER SUPPORT)



#### (BAG OF ACCESSORIES)



The bag of accessories includes the items necessary to be able to support the position of the buffer support against the wall to between 5 and 80 mm (at 5 mm intervals) and the lateral support used for the mounting and correct positioning of the buffer support over the buffer:

- 2x lateral supports
- 4 x adjustable wall fixtures
- 2 x 5mm chocks
- 2 x 10 mm chocks
- 4 x 30x30x10 rings
- M8x22 screw.
- 8 x M8 bolts.
- 4 x washers
- 2 x clamp rings

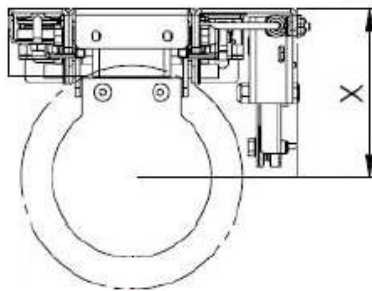
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#### 4) TASKS PRIOR TO ASSEMBLY:

Use the assembly diagram to identify the location of the buffer support and perform the following checks:

Tasks prior to assembly:

- Check Depth X of the buffer support and cross check against the project design.

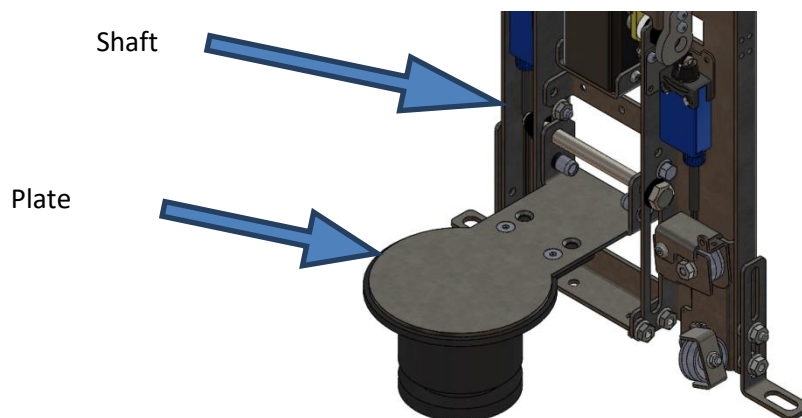


- Check the type of buffer ensuring that it is compatible with the buffer support.
- Check type of wall fixture. There are three possible situations:
  - Direct*: The buffer support is mounted directly onto the wall.
  - With chocks*: When the distance to the wall is between 5-30 (5 mm intervals)
  - With L fixtures*: When the distance to the wall is between 35-80 (5 mm intervals)
- Check that the area for fixing the buffer support to the wall/structure is clear and suitable for the required fixture.

**(NB: The necessary wall plugs are not provided and must be appropriate or the type of wall. The tensile load on each fixture point is 75 kg).**

#### 5) MOUNTING THE BUFFER SUPPORT:

The first step is to assemble the **shaft** - provided disassembled in the box - and place the **plate** in a horizontal position.



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Then proceed as follows:

- Regulation of lateral supports.
- Marking and drilling of fixture points.
- Plumbing and fixing the buffer support.
- Positioning and assembly of pulleys and cables.
- Connecting the contacts.
- Checking operation.

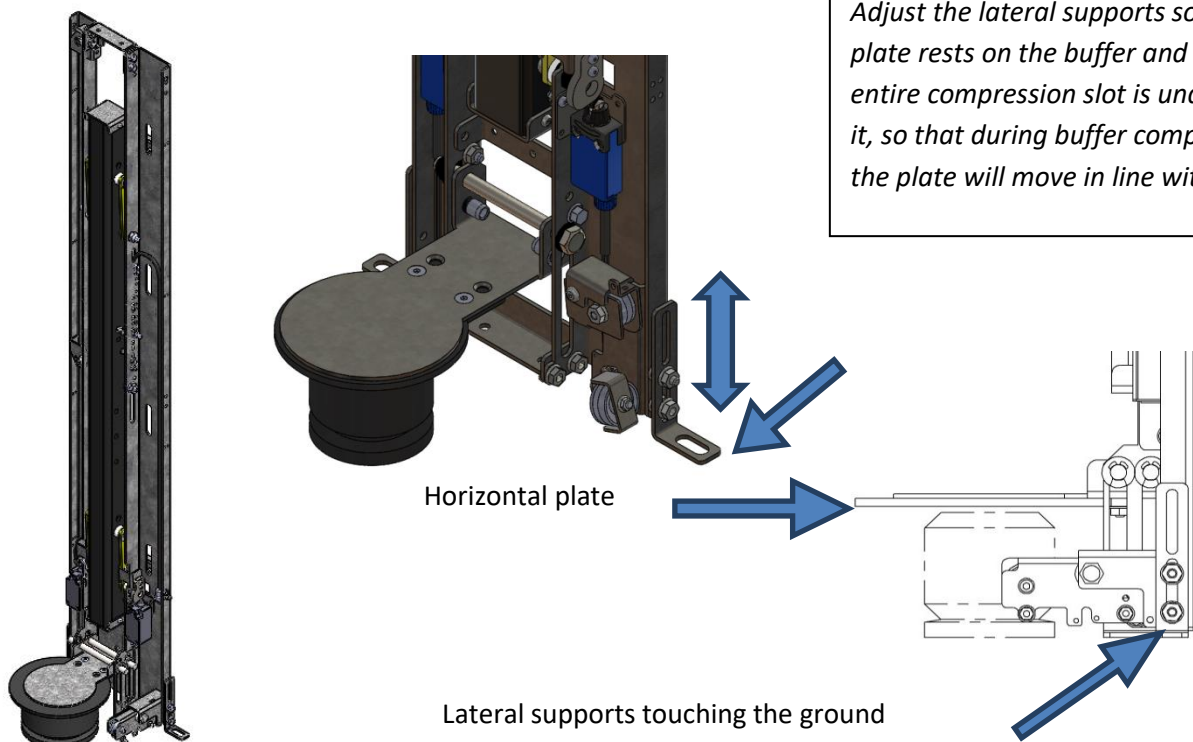
Once all checks and tests are complete, proceed with the mounting of the buffer support. First mount the two lateral supports under either side of the main unit. This will be used as support during assembly and to adjust how the plate lies against the buffer. The image shows the assembly position for the supports.

- **Regulation of lateral supports:**

It is very important that when the buffer support is not activated and the buffer is not compressed, the plate sits at the highest point of the guide rails.

This requires the lateral supports to be positioned correctly:

- Place the buffer under the plate
- Move the plate to the highest point on the guide rails.
- Loosen the screws on the lateral supports.
- Move the supports until they touch the floor of the pit.



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- **Marking and drilling of fixture points:**

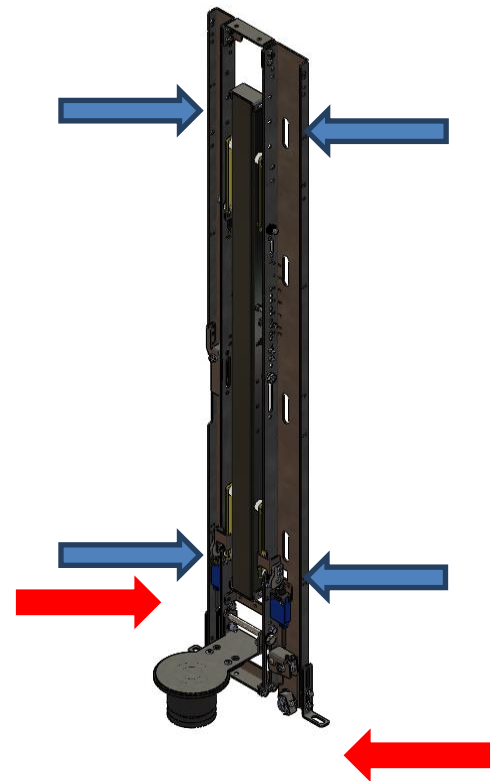
Once the height has been adjusted, position and mark the drill holes required to fix the buffer support to the walls. The fixture points are:

-2 in the pit, on the lateral support slots.

-4 on the unit at two heights (2+2), on the upper and lower slots.

(The wall plugs used must guarantee that each fixture can withstand a tensile load of 75 kg.)

It is important to choose appropriate wall plugs for the type of space and to follow manufacturer's directions for proper installation. It is essential to observe the torque value, which will vary depending on model and manufacturer.



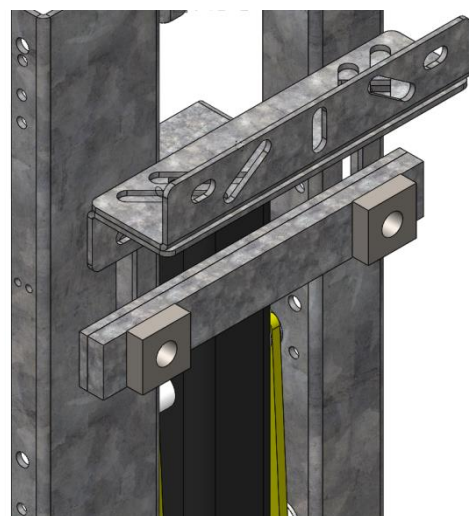
- **Plumbing and fixing the buffer support.**

Reposition the buffer support and, checking that the whole installation is perfectly level on all sides, tighten the fixtures and check all levels again.

For the levelling and adjusting if necessary, use side supports and the chocks provided in the bag of accessories.

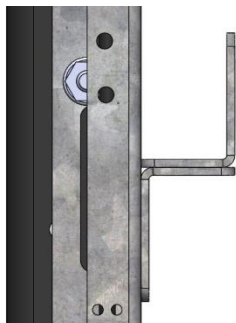
Fixtures or chocks are used to level the mechanism and can compensate for any irregularities in the pit. It is important that they are mounted in the position indicated in this manual and to check that the tube fits tightly against them when inactive.

The image shows two possible arrangements, using fixtures for 35-80 and with chocks for smaller measurements.

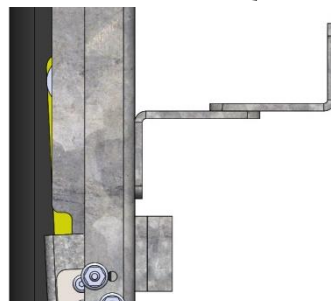
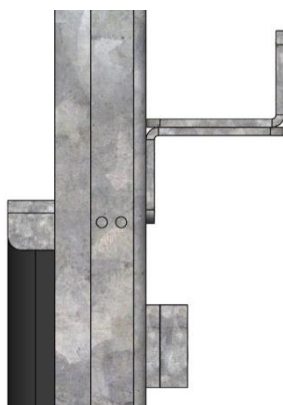


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(Regulation 35-49)



(Regulation 50-80)



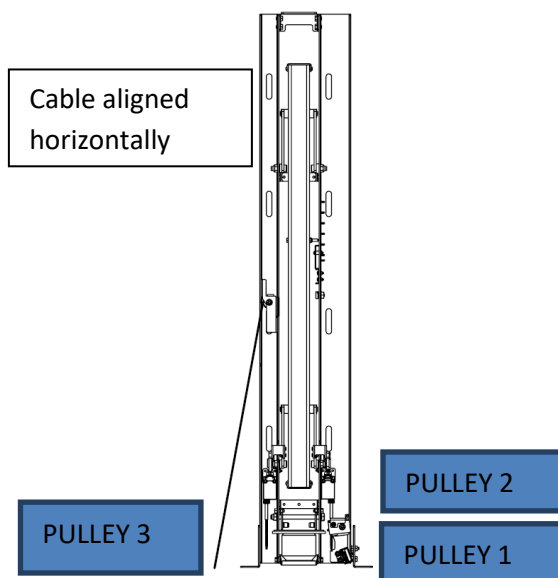
- **Positioning and assembly of pulleys and cables:**

In order for the activation and deactivation system to operate correctly from outside the pit, it is very important that the cables are properly guided into position. Pulleys are provided with the cables for this purpose. The role of these pulleys is to guide the insertion of the cables to avoid excessive angles or entrapment. The image shows how to position these pulleys.

Pulleys 1 and 2 are placed on the floor of the pit to align the cable with the opening mechanism.

Pulley 3 is placed on the pit to guide the insertion of the cable through the holes on the buffer support, to ensure they enter smoothly.

Once the cables have been fed through correctly, the ends are drawn up to the mouth of the pit (elevator door) and secured with a ring clamp so that they can be grasped from outside the pit.

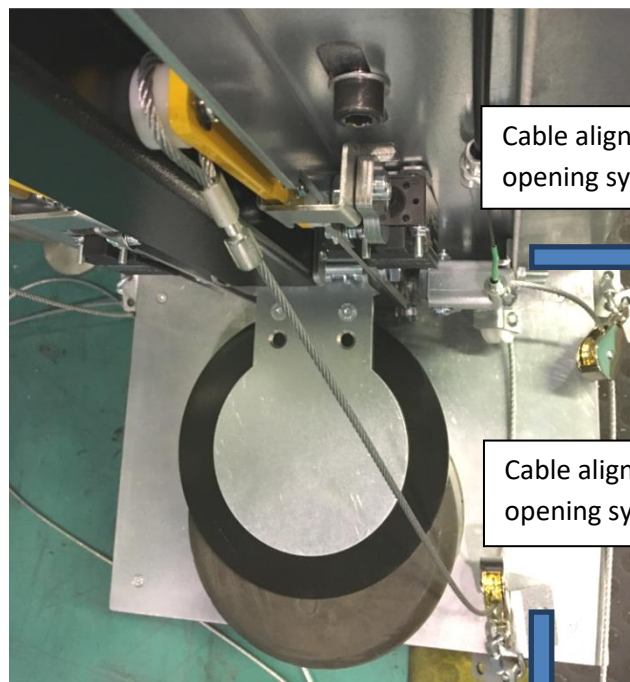


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PULLEY

PULLEY



Cable aligned with the opening system pulley

Cable aligned with the opening system pulley

The length of the cables is:

- Activation cable: 5 metres.
- Deactivation Cable: 7 metres.

Once the pulleys have been correctly fitted and checked, it is advisable to shorten the cables, leaving them at the exact length required to prevent any excess loose cables inside the pit.

The green cable can be shortened from the handle, but loosening the set screw and sliding it until the cable is at the ideal length to prevent any excess cable from remaining in the pit.

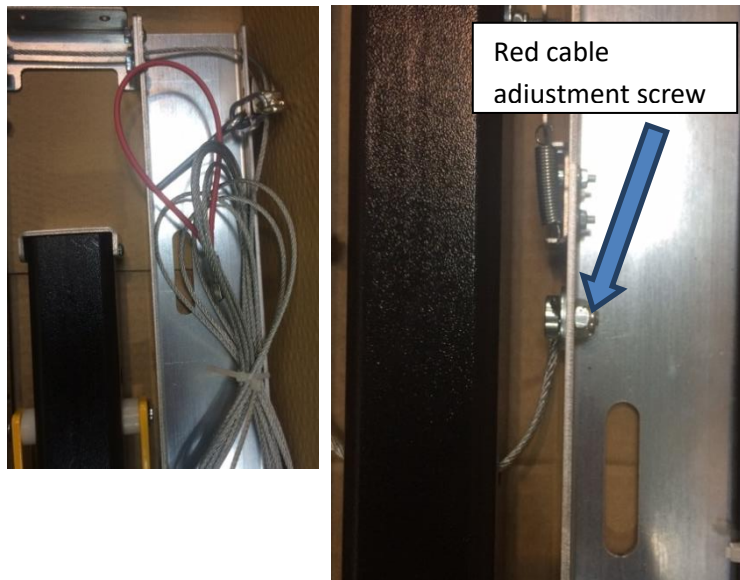
The red cable can be shortened from the opposite end, loosening the M8 DIN 985 bolt and pulling the cable until it is long enough to cross the pit.

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(Detail of green cable)



(Detail of red cable)

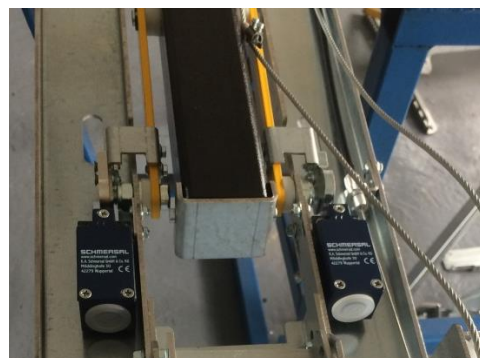


- **Connecting the contacts:**

Once the vertical buffer support is fully fixed into position and the cable activation pulleys are in place, the electrical connections can be made.

The unit has two contacts that must be connected to the electricity supply following the indications on the diagrams:

Right side: Monitors the active buffer support position.  
Left side: Monitors the resting buffer support position.



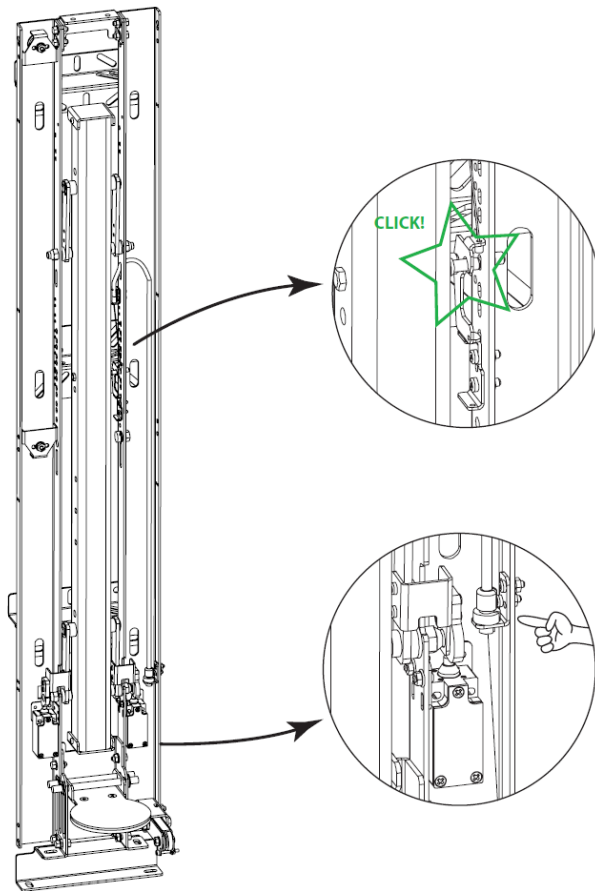
- **Check operation:**

Once the mechanical assembly and connections are complete, check that the buffer support operates correctly. This is done by using the cables to activate and deactivate the mechanism from the floor level. Check that the manoeuvre correctly monitors both positions. Also check that the interlock is properly adjusted and properly blocked in resting position.



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If the mechanism does not block correctly the trigger can be adjusted using the cable tightener. Turn it to adjust the trigger position by increasing and reducing its length and tension.



## 6) INSTRUCTIONS FOR USE:

Before accessing the elevator shaft, elevator pit in the case of low pits, or the elevator roof in the case of systems with reduced headroom, the maintenance technician must first open the door of the lowest floor and activate the vertical buffer support. The mechanism is activated and deactivated from floor level without the need to enter the pit.

- **Buffer Support activation:** This is done by pulling on the green cable. The tube drops down to active position and the electrical contact only allows operation during elevator review.
- **Buffer Support deactivation:** To deactivate the buffer support, pull on the red cable. As it rises into place there is a sound indicating that the trigger has blocked the mechanism, it has been deactivated and the manoeuvre can return to normal operation.