

**INSTALLATION MANUAL AND INSTRUCTIONS FOR USE**



**PART NUMBERS AND ACCESSORIES**

Part number	Description
487A02	Motorized height adjustable wall mount travel 34.25"[870 mm] black max 265 Lbs.(120kg) 120 V / 60 Hz
487A02002	Motorized height adjustable wall mount travel 34.25"[870 mm] black max 265 Lbs.(120kg) 230 V / 50 Hz
481A101	Laptop or keyboard support tray bottom mounting
481A102	Adapter set for screens with VESA 700x500, 700x600, 800x500 and 800x600
481A103	Adapter set for screens with VESA 700x200, 700x400, 800x200 and 800x400
481A104	Conferencing camera support tray bottom mounting
481A105	Universal bracket for soundbar mounting



## General warnings:

This product is intended for installation by a trained professional (the installer), do not attempt to install the product yourself.

A correct installation of this product is extremely important for the safe and correct use of it. The installer must follow the instructions in this manual for correct installation. Not doing so may result in injury to persons or damage to equipment. The manufacturer is not responsible for and does not control the correct installation according to this installation manual.

Mounting hardware for installation to a wall or ceiling is never included with the product for reasons of safety, because the material properties of the load bearing walls or ceilings can be different for each case. Suitable mounting hardware for a specific situation should be selected by a trained installer, when in doubt consult a building engineer.

It is the responsibility of the installer to ensure that the wall/ceiling can support at least four times the combined weight of the screen plus the mounts. The maximum load for this product is specified in this installation manual.

Hardware for the correct installation of the mount and the screen is included with the product, use the supplied hardware for its intended purpose. Do not use alternative hardware before consulting with the manufacturer of the product.

Follow the mounting instructions and warnings for installation and use of the screen supplied by the screen manufacturer, make sure the weight specifications of the screen used plus other brackets and hardware is within the weight limits specified for the use of the mount.

## Warranty terms and conditions:

1. Manufacturer guarantees that a product that manufacturer has determined to be defective as a result of a manufacturing or material defect will be repaired or replaced (to be determined by Manufacturer), without cost, on condition that a claim is made within the period of warranty, which is 3 years.
2. In the event of a claim being made under the terms of the warranty, the product needs to be returned to the manufacturer by the installer accompanied by a RMA form, which we will send on request. The freight costs from the installer to the manufacturer are covered under the terms of the warranty provided the RMA instructions are followed with regard to the forwarder.
3. The guarantee provided by manufacturer shall lapse or be void if:
  - a defect arises as the result of incorrect or inexpert assembly or installation.
  - in case of improper use or any use not in accordance with the instructions.
  - in case of normal wear and tear.
  - without the written consent of the manufacturer, customer or a third party have introduced changes to the product or have attempted to do so, the product has been used for anything other than its intended use or if products were processed or revised in some way other than was instructed.
  - A customer or a third party engaged by customer performed repairs without the written consent of the manufacturer.

## The intended use of the product:

The product is intended to be used for the mounting and height adjustment of passive or interactive flatscreen display panels. The product is intended for in-door use in classrooms, offices or meeting rooms, at temperatures ranging between 50 and 86 °F / 10 to 30 °C.

The product is intended for use by adults; children under the age of 16 should only use the product under adult supervision.

## Specifications and limitations of the product:

Maximum weight capacity: **265lbs / 120kg**  
Maximum screen size: **86" diagonal**

## The manufacturer:

**Thomas Regout Inc;** 1445 Londonderry Drive  
Woodstock 30188 GA USA

**Regout Balance Systems B.V;** Industrieweg 40  
6219NR Maastricht; The Netherlands

## DISCLAIMER

The manufacturer and its affiliated corporations and subsidiaries, intend to make this manual accurate and complete. However, the manufacturer makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product.

The information contained in this document is subject to change without notice or obligation of any kind. The manufacturer makes no representation of warranty, expressed or implied, regarding the information contained herein. The manufacturer assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

All rights reserved.

## IMPORTANT SAFETY INSTRUCTIONS



### WARNING:

Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the certified installer's responsibility to make sure all mounting systems/ accessories are properly assembled and installed using the instructions provided.

### WARNING:

Failure to provide adequate structural strength for this mounting system can result in serious personal injury or damage to equipment! It is the certified installer's responsibility to make sure the structure to which this mounting system is attached to or placed upon is flat and even and can support at least four times the combined weight of all equipment. Reinforce the structure or surface as required before installing the mounting system.

### WARNING:

Use this mounting system only for its intended use as described in these instructions. Do not use attachments or accessories not recommended by the manufacturer.

### WARNING:

Never operate this mounting system if it is damaged. Return the mounting system to your dealer, a service center or contact the manufacturer for examination and repair.

### WARNING:

Do not use this product outdoors.

### WARNING: RISK OF INJURY TO PERSONS!

Do not place video equipment such as televisions or computer monitors on cart legs. (where applicable)

### WARNING:

Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the certified installer's responsibility to make sure the combined weight of all accessories and equipment attached to the 487A02 assembly up to (and including) the display does not exceed the maximum load of 265 lbs / 120 kg. Use with heavier screens may result in instability causing tip over resulting in death or serious injury! The height adjustable feature of this trolley will not function properly if the weight exceeds the given maximum load.

### WARNING: RISK OF SERIOUS INJURY OR DEATH!

Placing a remote control or toy on the trolley or wall mount may encourage a child to climb onto the product causing the trolley to tip over onto the child. DO NOT place remote controls or toys on the product!

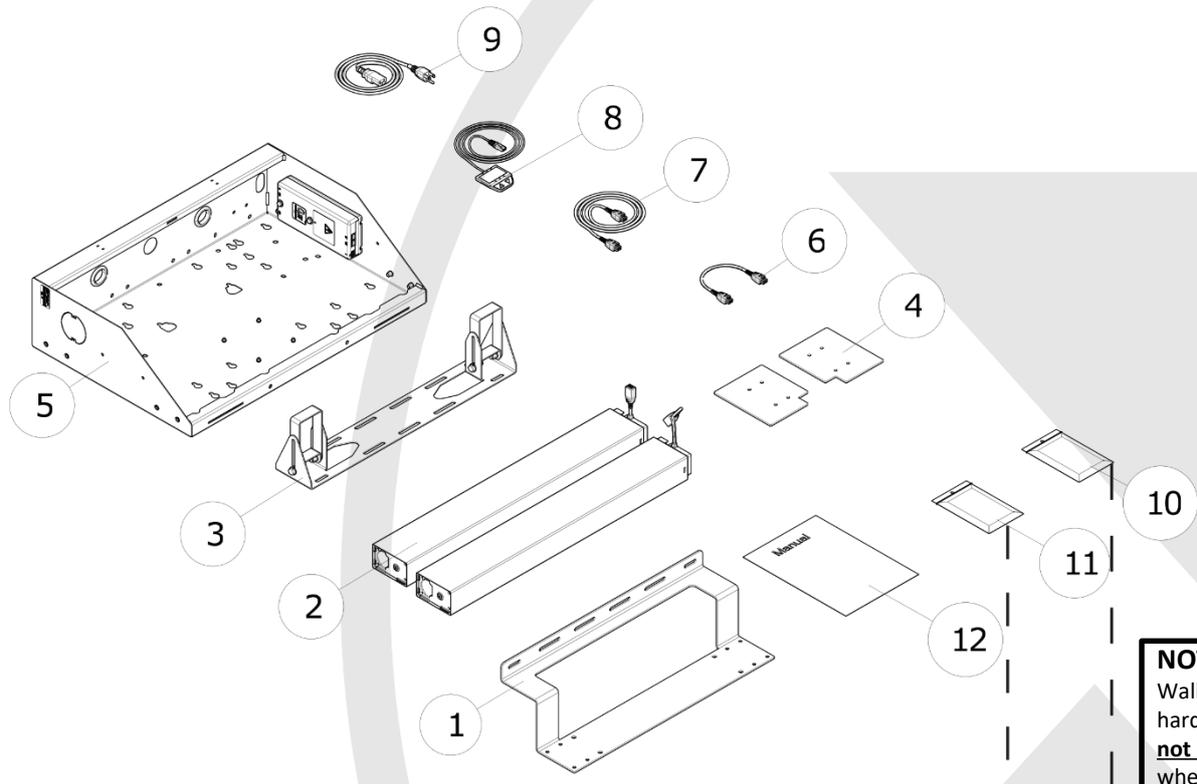
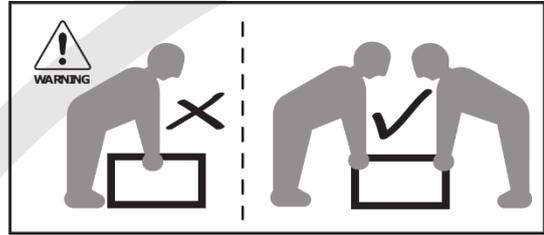
### WARNING: RISK OF SERIOUS INJURY OR DEATH!

Relocating audio and/or video equipment to the trolley may result in the trolley collapsing or overturning onto a child. DO NOT relocate audio and/or video equipment to the trolley!

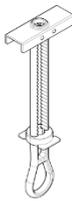
### NOTE:

The motorized height adjustable stand or wall mount can support all kinds of screen sizes as long as the distance between floor frame and bottom screen is at least 2 inch / 50mm. The intended maximum screen size is 86" diagonal.

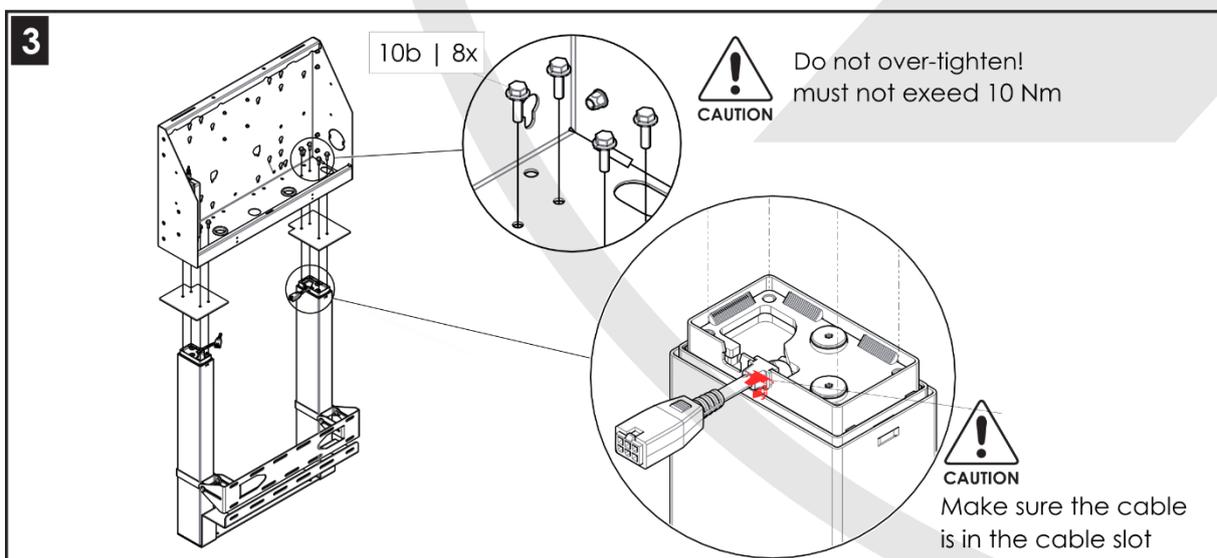
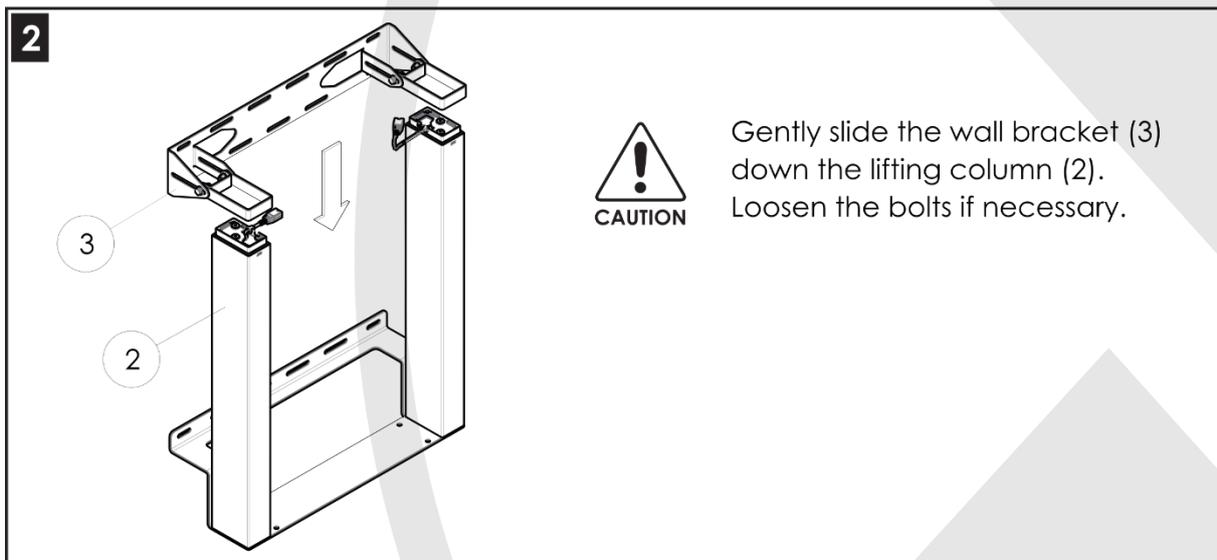
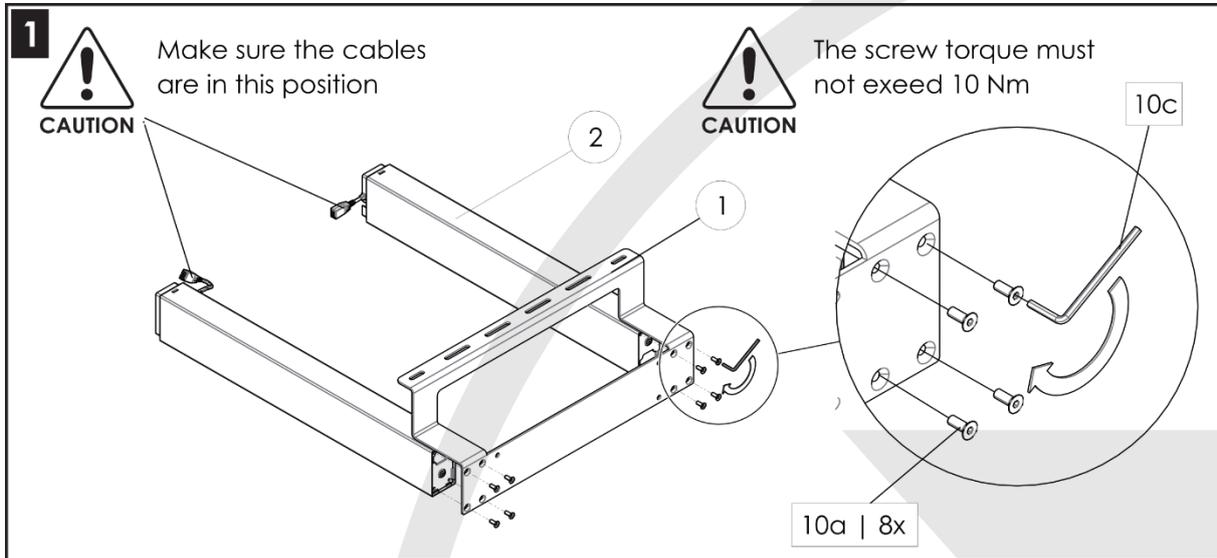
UNPACKING / CONTENT OF THE PACKAGING



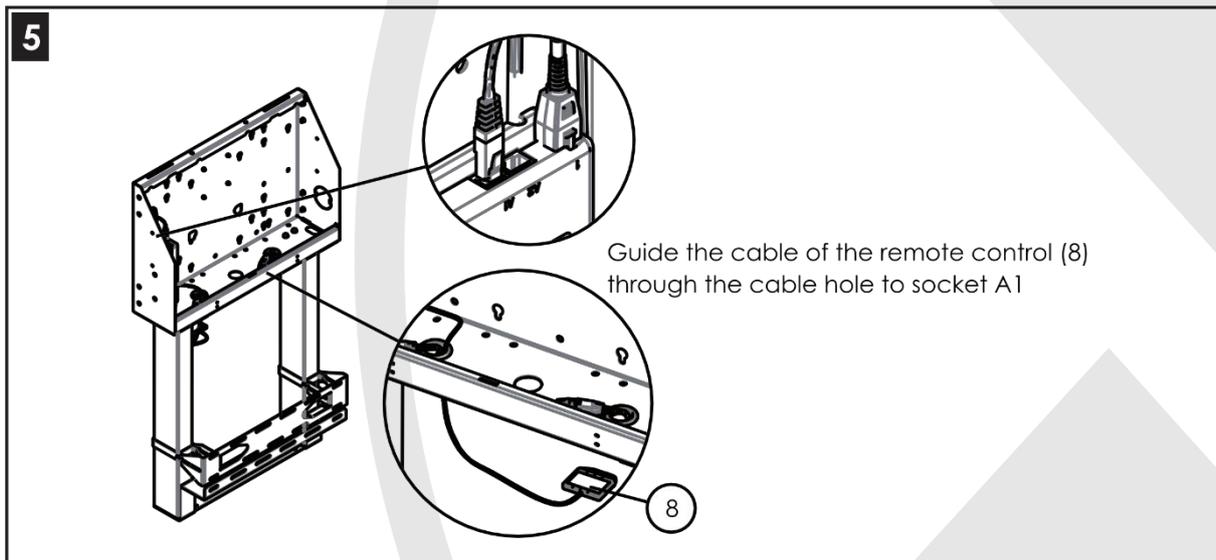
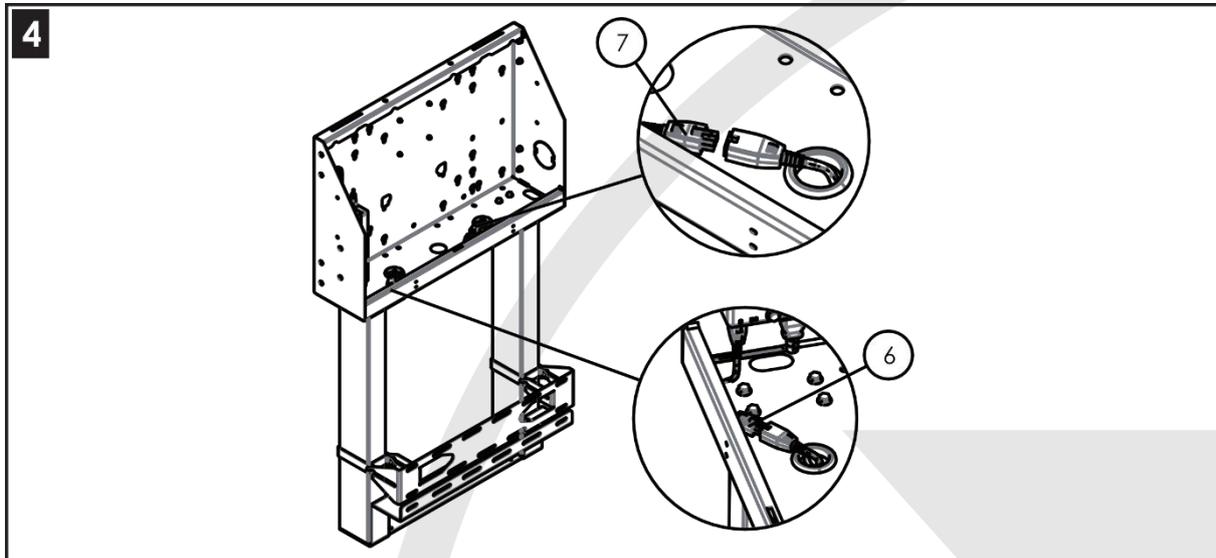
**NOTE:**  
Wall mounting hardware is **not included**, when in doubt consult a building engineer or architect

MON.0215	MON.0200	Mounting material for concrete and wood stud wall
 10a   M6x16   8x  10b   M6x20   8x  10c   hex key 4   1x	 11a   M6x12   4x  11d   M8x14   4x  11g   200x3.6   2x  11b   M6x25   4x  11e   M8x25   4x  11h   25x45   1x  11c   D25, d8.4x30   4x  11f   M8x45   4x  11i   89x21   1x	 A   5/16" x 2-1/2"   10x (not included)  B   5/16"   10x (not included)  C   UX 10x60mm   10x (not included)  <p><b>Mounting material for metal stud wall</b></p>  D   1/4"-20 x 1-3/4"   6x (not included)  E   1/4"   6x (not included)  F   TOGGLER 1/4"-20   6x (not included)

**ASSEMBLY**



**ASSEMBLY AND WALL MOUNTING**



**6**

The 487A02 is designed to be mounted to:

- a bare concrete wall with a minimum thickness of 8" (200mm)
- a bare 8" x 8" x 16" (200 x 200 x 400mm) concrete block wall
- a 16" (centered) spaced wood studs wall with a maximum drywall covering of 5/8"
- a 2" x 4"-25ga minimum steel stud wall

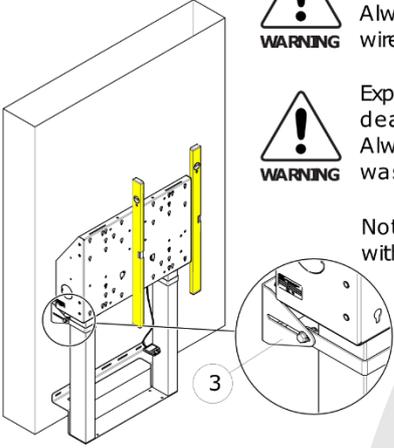
**IMPORTANT!** : Do not attach the 48A02 to the floor only without securing it to the wall!

  
**WARNING**

Improper installation can lead to the lift system to fall over, causing severe personal injury or damage to the equipment  
It is the installers responsibility to make certain the structure (floor and wall) to which the lift system is being attached is capable of supporting five times the weight allowed to the lift system and all attached equipment do not exceed 265 lbs (120 kg).  
It is also the installers responsibility to ensure that the correct mounting material is used to properly install the 487A02.

**WALL MOUNTING / SCREEN MOUNTING**

**7**

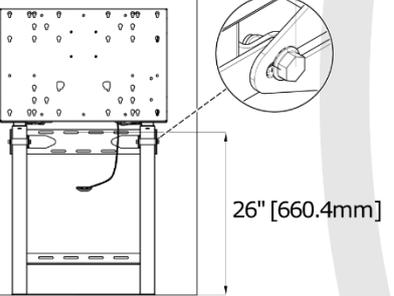


**WARNING** Electrical shock hazard! Cutting or drilling into electrical cords or cables can cause death or serious personal injury! Always make certain the area behind mounting surface is free of electrical wires and cables before drilling or installing fasteners.

**WARNING** Explosion and fire hazard! Cutting or drilling into gas plumbing can cause death or serious personal injury! Always make certain the area behind mounting surface is free of gas, water, waste, or any other plumbing before cutting, drilling, or installing fasteners.

Note: Make sure the lift system is leveled in both directions (as shown) with the adjustable wall bracket (3).

**8**



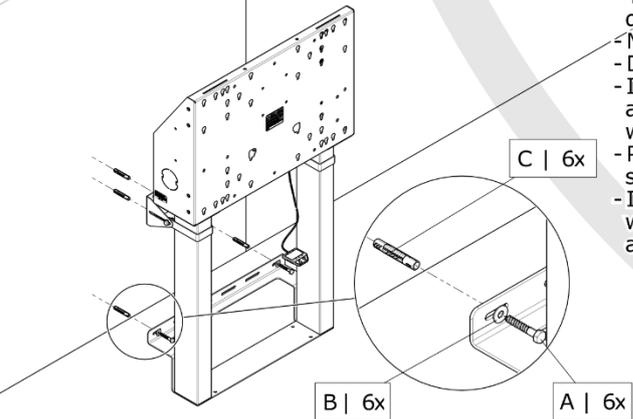
M8x25 | 4x

**WARNING** Overriding the distance can cause serious injury! It is the installers responsibility to ensure the distance in all cases does not exceed the specified distance of 26 inch (660 mm) (from floor to center of upper slots)

**WARNING** Improper installation can lead to, the lift system to fall over causing severe personal injury or damage to equipment! It is the installers responsibility to make sure that the four bolts M8x25 are properly tightened.

26" [660.4mm]

**9**



**Installing to a Concrete Wall**

- Place the 487A02 against the wall at the desired mounting location.
- Mark hole locations.
- Drill six 3/8" holes at marked hole locations.
- Install an anchor (C) into each pilot hole using a hammer, making sure that each anchor is flush with the wall.
- Proceed to "Attaching to Floor" section before securing to the wall.
- Install six 5/16"x 2-1/2" hex head screws (A) with six washer 5/16" (B) through bracket holes and into anchors (C) on wall.

C | 6x

B | 6x

A | 6x

**WALL MOUNTING / SCREEN MOUNTING**

**10**

**Installing to a Wood Stud Wall**

- Use a stud-finder to locate 16" studs.
- Place the 487A02 against the wall making sure to line up attachment bracket holes with the center of the studs.
- Use two studs!
- Mark hole locations.
- Drill six 7/32" holes at marked hole locations.
- Proceed to "Attaching to Floor" section before securing to the wall.
- Install six 5/16"x 2-1/2" hex head screws (A) with six washer 5/16" (B) through bracket holes on wall.

B | 6x      A | 6x

**11**

Drywall  
(1/2" minimum thickness)

Steel Stud  
(2" x 4"-25ga minimum)

**Metal Stud Wall Requirements**

- If back side of wall is unfinished, drywall must be installed to a minimum of one stud left and right of the studs being used to install the mount. Drywall must be secured to studs with screws 12" on center.
- There must be a minimum of 1-1/8" (48 mm) clearance inside the wall.

**12**

**IMPORTANT!** : See Metal Stud Wall Requirements section before proceeding with steel studs installation to ensure installation site meets requirements!  
The drywall must have a minimum thickness of 1/2"!

**Installing to a Metal Stud Wall**

- Place the 487A02 against the wall making sure to line up attachment bracket holes with the center of the studs.
- Use two studs.
- Mark hole locations.
- Drill six 1/2" holes at marked hole locations.
- Install an anchor (F) into each hole making sure anchor metal channel is positioned vertically on stud. For more info see [www.toggler.com](http://www.toggler.com)
- Proceed to "Attaching to Floor" section before securing to the wall.
- Install six 1/4"-20 x 1-3/4" Phillips pan head screws (D) with six washers 1/4" (E) through bracket holes and into anchors (F) on wall. Do not overtighten!

F | 6x      E | 6x      D | 6x

**WALL MOUNTING / SCREEN MOUNTING**

**13**

**Attaching to Floor**

**IMPORTANT!** Do not install to the floor before making sure the holes to attach to the wall have been drilled in the proper locations.

- Mark hole locations.
- Drill four 7/32" holes if installing to wood floor or 3/8" holes if installing to a concrete floor.
- If installing to concrete floor only, use a hammer to install anchors (C) to four holes drilled in floor.
- Install four 5/16" x 2-1/2" hex head screws through washers (B) through floor bracket holes and into drilled holes in floor or anchors.

\*for concrete floor only

**14**

**WARNING**

Using bolts of improper diameter or length may damage your display!

**NOTE:** Do not fully turn the bolts into your display yet, leave approximately 5/32 inch (4 mm) clearance between bolt head and display!

Only use spacers (11c) in combination with bolts (11f) when required for proper installation of your display!

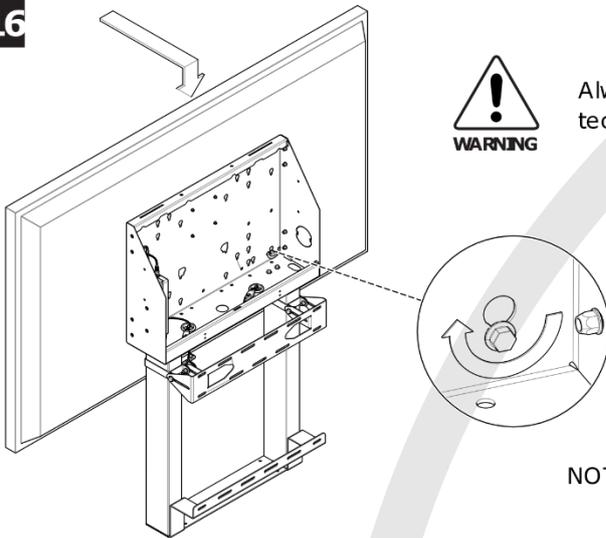
**15**

**WARNING**

Exceeding the weight capacity can result in serious personal injury or damage to equipment!  
It is the installer responsibility to make sure the combined weight of all accessories and components attached to the 487A02 does not exceed the specified maximum load of 265 lbs (120 kg).

**MOUNTING THE SCREEN**

**16**

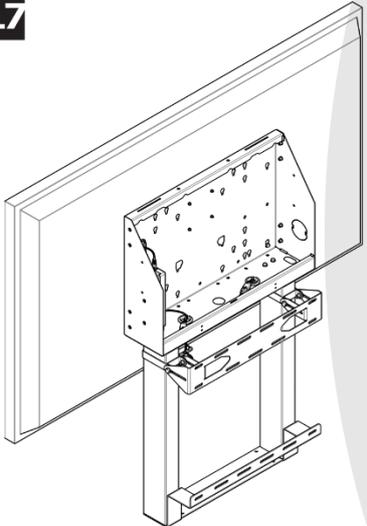


  
**WARNING**

Always use two people and proper lifting techniques when installing or mounting the display!

**NOTE:** After mounting the display, tighten the four bolts

**17**



  
**WARNING**

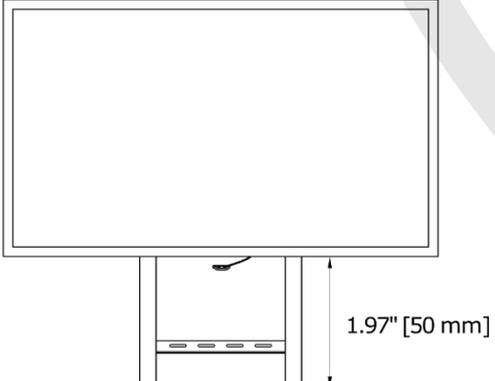
Always use two people and proper lifting techniques when installing or mounting the display!

**NOTE:** After mounting the display, tighten the four bolts

**18**

  
**WARNING**

Overriding the minimum distance can cause serious injury or damage to the equipment!  
It is the installers responsibility to ensure the minimum distance in all cases, including all accessories and components attached to the SMUS-1020 / 487A02, does not exceed the specified minimum distance of 1,97 inch (50mm).



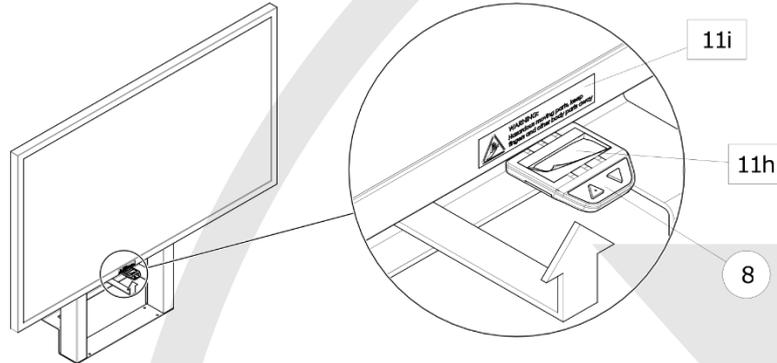
1.97" [50 mm]

**MOUNTING THE SCREEN**

**19**



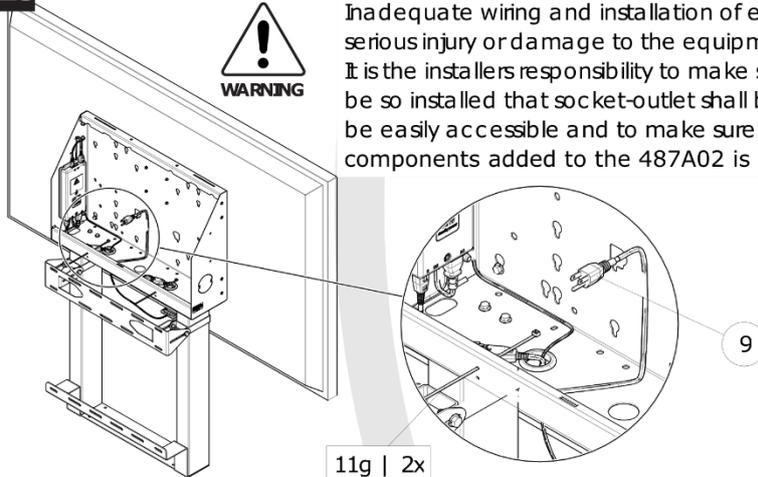
Hazardous moving parts, keep fingers and other body parts away.  
It is the installers responsibility to place the marking [11i] in a prominent position, close to the remote (8), readily visible and accessible from the point where the risk of injury is the greatest.



**20**



Inadequate wiring and installation of electrical equipment can cause serious injury or damage to the equipment!  
It is the installers responsibility to make sure that the equipment shall be so installed that socket-outlet shall be near the equipment and shall be easily accessible and to make sure the wiring and installation of all components added to the 487A02 is according local regulations.





**INSTRUCTIONS FOR USE**

**1**



**WARNING**

Risk of serious injury or death!

1. Do not place remote controls (of 3rd parties) or toys on the lift system!
2. Do not relocate audio and/or video equipment to the mobile lift system!
3. Do not allow children under 16 to use the lift system!

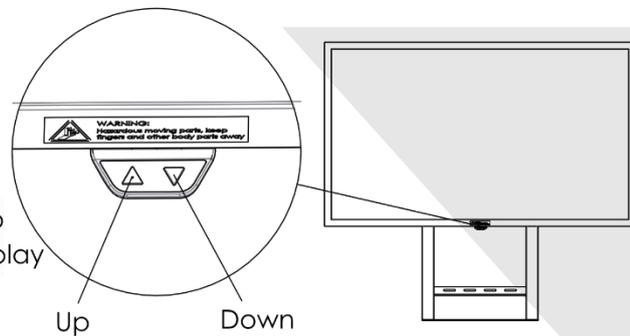


**WARNING**

Hazardous moving parts keep fingers and other body parts away

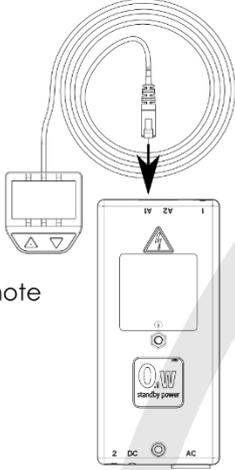
1. Make sure the area around the lift system is clear before use of the remote up or down button!

1. Push the up button to lift the display up
2. Push the down button to lower the display



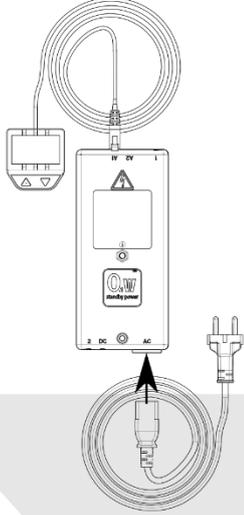
RESET CONTROL BOX – MOTOR SYNCHRONISATION

**1**



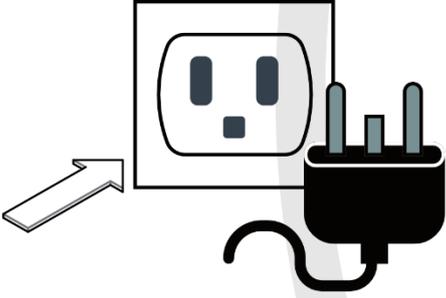
Make sure the remote is connected to the controlbox

**2**



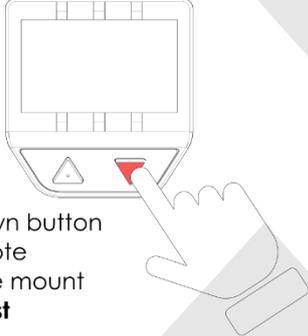
Make sure the power lead is connected to the controlbox

**3**



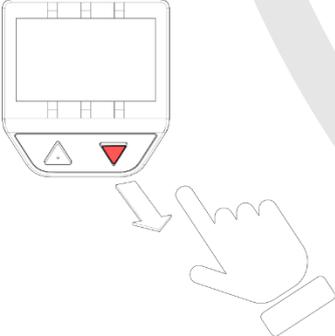
Connect the power lead to the wall socket

**4**



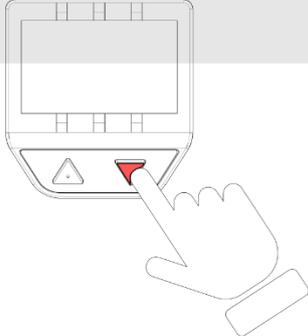
Use the down button on the remote to move the mount to the **lowest** position

**5**



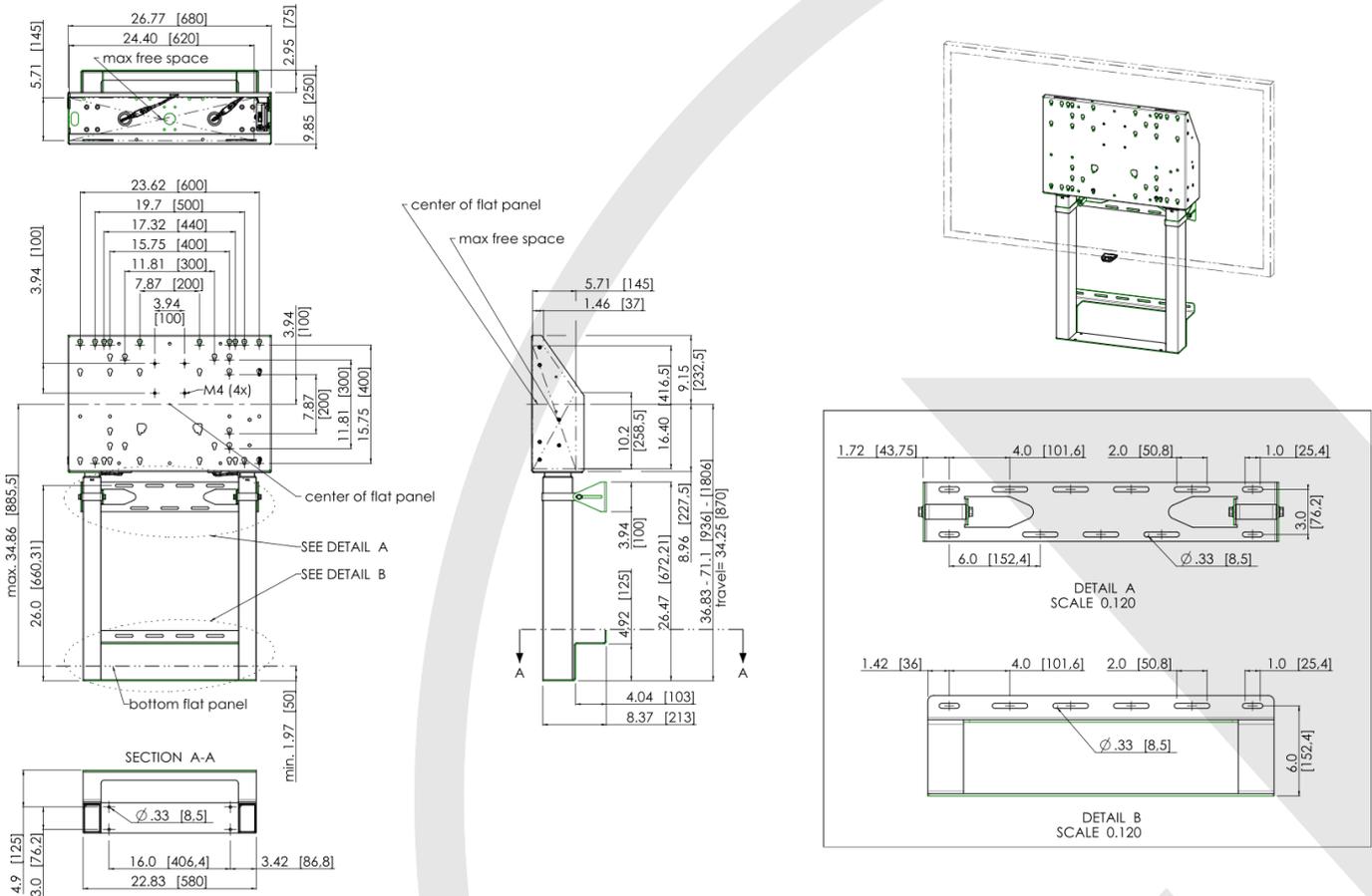
Release the down button

**6**



Push the down button for 30 sec

**DIMENSIONS**



**FAQ: Frequently Asked Questions**

**A: The e-Box® does not move up or down**

- A1: Check the power lead is connected to the wall outlet, if not connect the power lead.
- A2: Check the cable connections to the control box step 4 and 5, make sure the cables are connected.
- A3: Check the connection of the short motor cable to the control box cable, make sure the cables are connected.
- A4: Check for wiring damage from bad assembly: step 3: If wiring is damaged from pinching, disconnect the e-Box® from the wall outlet and contact your dealer for a replacement or repair.  
WARNING: DO NOT ATTEMPT TO REPAIR BROKEN WIRING!
- A5: The e-Box® motors are intended for intermittent use, continuous or extended use (more than 6 minutes) will cause over-heating and a safety system will switch the motors off, if this happens allow the motors to cool down for at least 1 hour. The system will automatically switch back to normal when the motors have cooled down.
- A6: If steps A1 to A4 have been found in order and the problem still exists, contact your dealer for repair of the unit.

**B: The motors don't move smoothly or the left and right motors are at a different height**

- B1: Follow steps 3 to 6 on page 13 to synchronize the motors

**C: The e-Box® only moves down and not up: the e-Box went into safe-mode: a power cut may have happened during operation, or there is a bad wiring connection.**

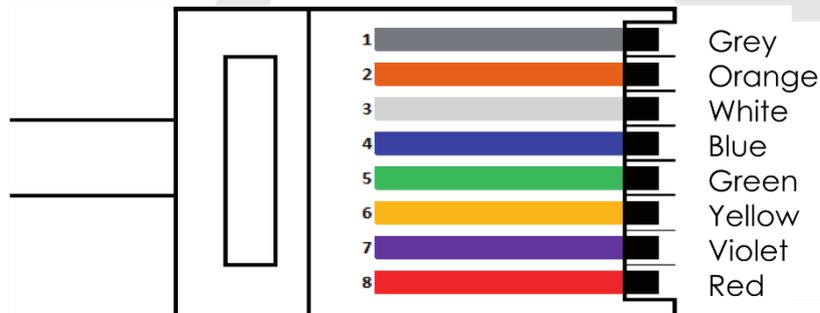
- C1: Follow the steps 3 to 6 on page 13 to synchronize the motors
- C2: If the problem still exists follow steps A1 to A4

**RJ45 CONNECTION DIAGRAM**

**RJ45 - 8 PIN CONNECTION DIAGRAM**

**WARNING:**

The height adjustable mount can only be operated remotely when visual supervision of the moving products is possible. Operating the product without visual supervision may result in serious injury or death.



Cable wire color	Function	RJ45 8 Pin plug no.
Blue + Green	Reference 1 Up	RJ45 Pin 4 + 5
Blue + Red	Reference 1 Down	RJ45 Pin 4 + 8
White + Green	Reference 2 Up	RJ45 Pin 3 + 5
White + Red	Reference 2 Down	RJ45 Pin 3 + 8
Orange + Green	Reference 3 Up	RJ45 Pin 2 + 5
Orange + Red	Reference 3 Down	RJ45 Pin 2 + 8



L = 1700 mm +/- 70 mm

