



*Adam Equipment*

**MDW-160M**

MECHANICAL  
PHYSICIAN SCALE

ADAM EQUIPMENT CO. LTD.  
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## 1. INTRODUCTION

- The Medical Physician Scale MDW-160M can weigh a person as well as measure the height.
- It is simple to use and can be moved around with the help of the wheel attachment at the bottom of the scale.
- The MDW-160M scale is widely applicable for use in business, schools, hospitals, clinics and sports departments.
- A height rod assembly is included as standard.

## 2. SPECIFICATIONS

	<b>MDW-160M</b>
Capacity	160 kg
Accuracy	100 g
Platform Size	375 mm x 275 mm
Overall dimension	530 mm x 275 mm x 1485 mm
Height measurement	75 cm – 200 cm x 0.5 cm
Total weight	15 kg

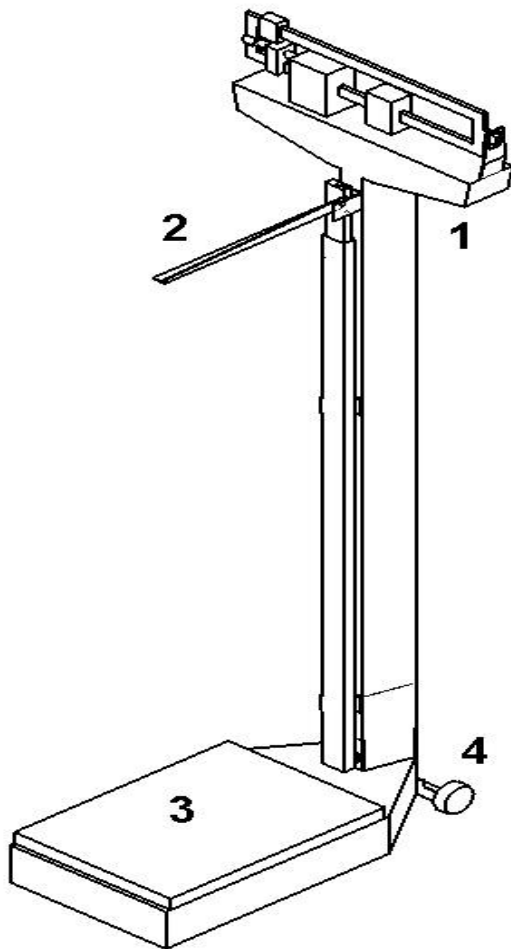
## 3. INSTALLATION

### 3.1 GENERAL INSTALLATION

This precision instrument is extremely easy to set up, as all major parts are factory pre-assembled.

#### Hardware supplied for installation:

- 6 no. M6 x 12 screws
- 6 no. M6 Lock washers
- 2 no. Hex Head screws
- Tool (Spanner/Wrench)



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| <ol style="list-style-type: none"><li>1. Column with head</li><li>2. Height measuring rod</li><li>3. Platform base</li><li>4. Wheel attachment</li></ol> |
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**NOTE:** If the column bracket is bent, straighten it before assembling.

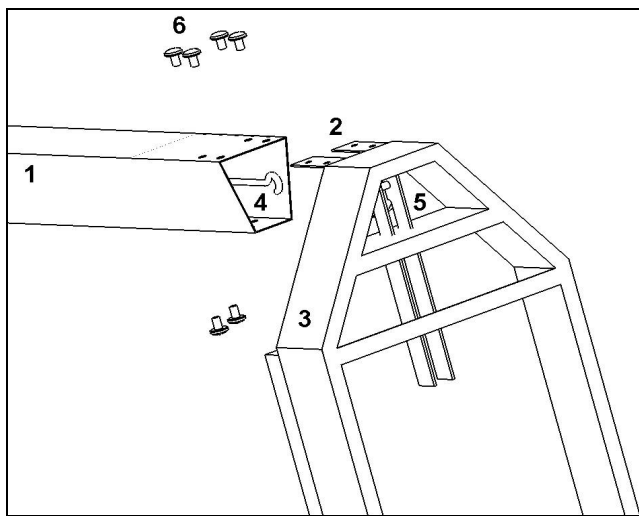
Slip the column over the column bracket on the base.

Hold the column straight so that the draft rod fits into the opening aperture of the column bracket.

Fix the column to the column bracket using two M6 screws in front of the column and four at the back.

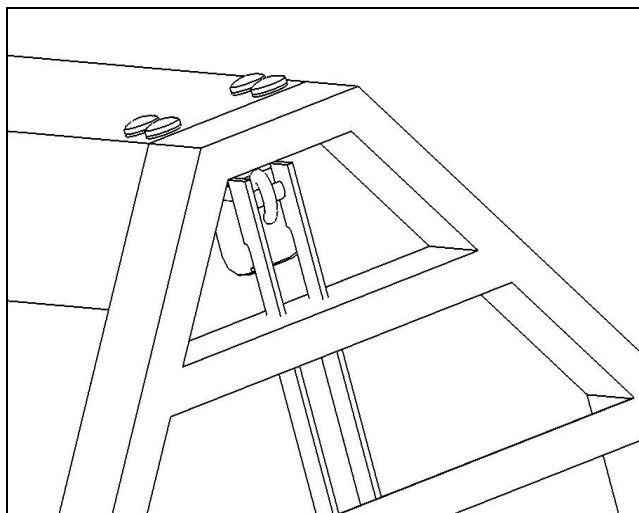
Lay down the scale, with column horizontal to the floor.

Raise the draft rod keeping out of the lever's way.



1. Column
2. Column bracket
3. Base
4. Hook at the end of the Draft rod
5. Lever with pivot
6. M6 screws

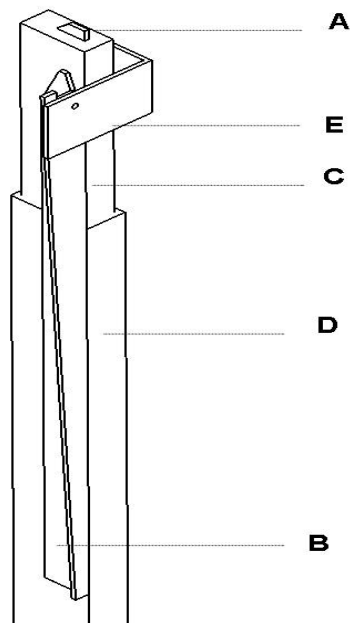
Push the lever. When the lever is in position, hook the draft rod around the pivot.



← An assembled view

### 3.2 HEIGHT ROD INSTALLATION

- Insert the two hexagonal headed screws from the hardware pack into the holes in the front of the column and tighten slightly.
- Place both the height rod clamping brackets over the two pre-installed hexagonal headed screws and pull it down.
- Use the included wrench to tighten both the screws. Do not over tighten the screws.



**A.** Latch to lock/unlock the measuring arm

**B.** The measuring arm

**C.** The inner height rod

**D.** The outer height rod

**E.** Two height rod clamping brackets for fixing the height rods assembly to the column. One hexagonal headed screw is required for each bracket.

## 4. MEASURING HEIGHT

### Preparing the scale to measure the height-

- Before the person steps onto the scale platform, the measuring arm should be lifted to the horizontal position, and raised well above the person's apparent height.
- The person may now step onto the scale platform.
- The measuring arm should be held horizontal and above the person's head and should not be released.

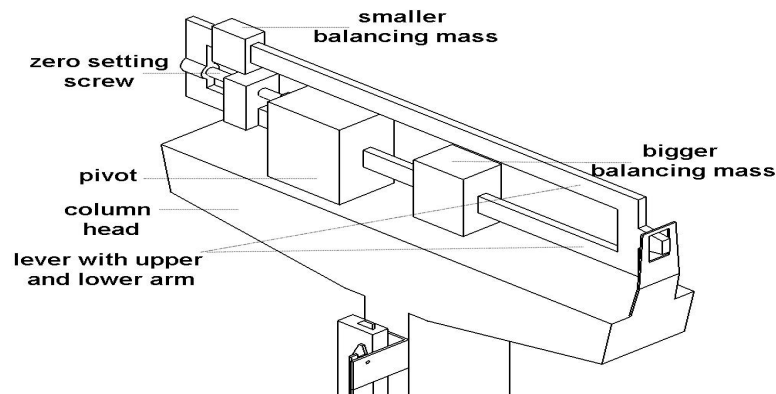


- Carefully lower the measuring arm, while keeping it horizontal, until it rests gently upon the top of the person's head. If the person is shorter than 101.5cm, push the latch to the right, while simultaneously pushing down the measuring arm until it rests horizontally upon the top of the person's head.

**Read the height of the person as follows:**

- The rear end of the measuring arm is tapered to point at the reading on the height rods.
- If the tapered end of the measuring arm points at the outer height rod, then the height of the person is same as the reading at this point on the outer height rod.
- If the tapered end of the measuring arm points at the inner height rod, then the correct height of the person is same as the reading shown on the inner height rod where both the height rod meets, i.e., read at the top of the outer height rod (Just above the "Read" arrow marked on the outer height rod).
- While holding the measuring arm horizontally, raise the arm above the person's head. The person may now step off the scale platform. Hold the arm horizontal until the person is clear of the height rod.
- Fold the measuring arm back to the vertical position and adjust the height rod back to the rest position (i.e. the measuring arm should be locked in place within the inner height rod and the inner rod should be at its lowest position).

**5. WEIGHING OPERATION**







### **Manufacturer's Declaration of Conformity**

This product has been manufactured in accordance with the harmonised European standards, following the provisions of the below stated directives:

Electro Magnetic Compatibility Directive 89/336/EEC

Low Voltage Directive 73/23/EEC

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### **FCC COMPLIANCE**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment.

**ADAM EQUIPMENT** is an ISO 9001:2002 certified global organisation with more than 30 years experience in the production and sale of electronic weighing equipments. Products are sold through a world wide distributor network -supported from our company locations in the UK, USA and SOUTH AFRICA. The company and their distributors offer a full range of Technical Services such as on site and workshop repair, preventative maintenance and calibration facilities.

**ADAM's** products are predominantly designed for the Laboratory, Educational, Medical and Industrial Segments. The product range can be classified as follows:

- Analytical and Precision Laboratory Balances
- Top Loading Scales for Educational establishments
- Counting Scales for Industrial and Warehouse applications
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales with extensive software features including parts counting, percent weighing etc.
- Digital Electronic Scales for Medical use
- Retail Scales for price computing

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