



# **ProDoc Series**

**DHRWM**

## **Digital Height Rod**

**(Wall Mounted Digital Height Rod)**

**Owner's Manual**

0044-M372-O1 Rev A  
05/08

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# INTRODUCTION

Thank you for purchasing our Detecto ProDoc Series DHRWM Wall Mounted Digital Height Rod. Your digital height rod has been designed for simple and straightforward use and to assure accuracy and dependability for years to come.

Please read this manual thoroughly before attempting to use your scale and keep it handy for future reference. It contains important instructions for installation and proper operation of your scale.

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## FCC Compliance Statement

**WARNING!** This equipment generates uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible to take whatever measures necessary to correct the interference.

You may find the booklet "How to Identify and Resolve Radio TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402. Request stock No. 001-000-00315-4.

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<b>Serial Number</b> _____
<b>Date of Purchase</b> _____
<b>Purchased From</b> _____
_____
_____
_____
RETAIN THIS INFORMATION FOR FUTURE USE

<b>PRECAUTIONS</b>	
Before using this scale, read this manual and pay special attention to all "WARNING" symbols:	
	IMPORTANT
	ELECTRICAL WARNING

## SPECIFICATIONS

Height Units .....	Feet/Inches or Centimeters (selectable)
Height Range.....	3' 7" to 6' 7" (110 to 200 cm)
Power Requirements .....	Four (4) "AA" size Alkaline batteries ( <i>not included</i> )
Display .....	Five digit, seven segment, 1.0 inch (25 mm) high LCD
Cable Length .....	69" (175 cm)
Operation Temperature .....	50 to 104 °F (+10 to +40 °C)
Function Keys .....	UNITS and ON/OFF
Dimensions	
Display .....	5.25" H x 7.75" W x 2.125" D (13.4 cm x 19.7 cm x 5.4 cm)
Height Rod (includes bracket)	
(collapsed) .....	43.3" H x 3.35" W x 2.56" D (111.0 cm x 8.5 cm x 6.5 cm)
(extended) .....	98.8" H x 3.35" W x 2.56" D (251.0 cm x 8.5 cm x 6.5 cm)
Shipping Weight .....	8.20 lb (3.70 kg)

## CARE AND CLEANING

1. **DO NOT** submerge height rod or display in water.
2. **DO NOT** pour or spray water directly on height rod or display.
3. **DO NOT** use acetone, thinner or other volatile solvents for cleaning.
4. **DO NOT** expose height rod and display to temperature extremes.
5. **DO** clean height rod and display with a damp soft cloth and mild non-abrasive detergent.
6. **DO** remove power before cleaning with a damp cloth.

## DISPLAY MESSAGES

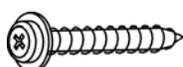
The Detecto ProDoc Series DHRWM Wall Mounted Digital Height Rod is equipped with software that tests various portions of its circuitry and verifies proper operation. The following messages are displayed to alert the operator should a problem be detected.

Display	Meaning
bAt	Displayed when the batteries are near the point they need to be replaced.
-----	This will be displayed when attempting to use the Digital Height Rod without the height rod in the starting position. The inner sliding tube must be down completely inside the outer stationary tube and the headpiece folded flat against the outer stationary tube.

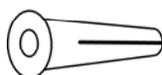
## UNPACKING

Remove the height rod, display, hardware pack and other components from the shipping carton. After removing from the carton, check for any damage that may have taken place during shipment. *Keep and use the original carton and packing material for return shipment if it should become necessary.* The purchaser is responsible for filing all claims for any damages or loss incurred during transit. Remove all plastic wrapping, foam fillers and cardboard material from the height rod, display and other components. You should have the following components:

- (1) Detecto Wall Mounted Digital Height Rod (DHRWM)
- (1) Remote Display
- (1) Display Wall Bracket "A"  
(Includes four (4) feet for desk or table mounting)
- (1) Display Wall Bracket "B"
- (1) Hardware Pack, containing:
  - (4) M3.0x25 Screws
  - (4) Plastic Wall Anchors



**M3.0x25 Screw**



**Plastic Wall Anchor**

## ASSEMBLY

The DHRWM does not require any assembly. After installing batteries, the DHRWM is ready for wall mounting and operation.

## BATTERY INSTALLATION

1. Turn the display over so that the keypad is facing down and locate the rectangular battery cover on the back of the display.
2. Remove the cover, install four (4) "AA" size batteries<sup>1</sup> and then replace the cover.
3. Turn the display over to the normal operating position.
4. Make sure the height rod is in the starting position.
5. Press the **ON/OFF** key to turn the display on.
6. The display will turn on, show all digits then show **1 100 cm**.
7. If the display did not turn on, remove the battery cover and check for one or more improperly positioned batteries.
8. The digital height rod and display are now ready to be installed.

<sup>1</sup> See page 7 for detailed instructions on installing the batteries.

# INSTALLATION

## Mounting the Height Rod

1. Choose the location to mount the height rod on the wall. The location should be free of temperature extremes and water. It should be where it is within easy reach of the operator.
2. Make certain the structure and mounting hardware are of sufficient strength to support the height rod. The mounting bracket should be securely fastened to the wall so that it cannot break loose from the mounting surface.
3. Referring to Figure No. 1 and using the height rod as a template, place the height rod against the wall and mark the holes to use to mount it. The lower mounting hole should be  $6 \frac{13}{32}$  inches (162.5 mm) from the floor and the upper mounting hole should be  $30 \frac{25}{32}$  inches (782.0 mm) from the lower hole.
4. Remove the height rod and drill two (2)  $\frac{13}{64}$ " (5 mm) holes in the wall for the mounting wall anchors.
5. Insert the wall anchors in the wall until they are flush with the wall.
6. Place the height rod against the wall and insert the two (2) M3.0x25 screws through the bracket and into the wall anchors.
7. Partially tighten the screws to hold the height rod in place.
8. Make sure the bottom of the height rod is  $\frac{25}{64}$  inch (10 mm) from the floor and then tighten the screws to secure the height rod to the wall.

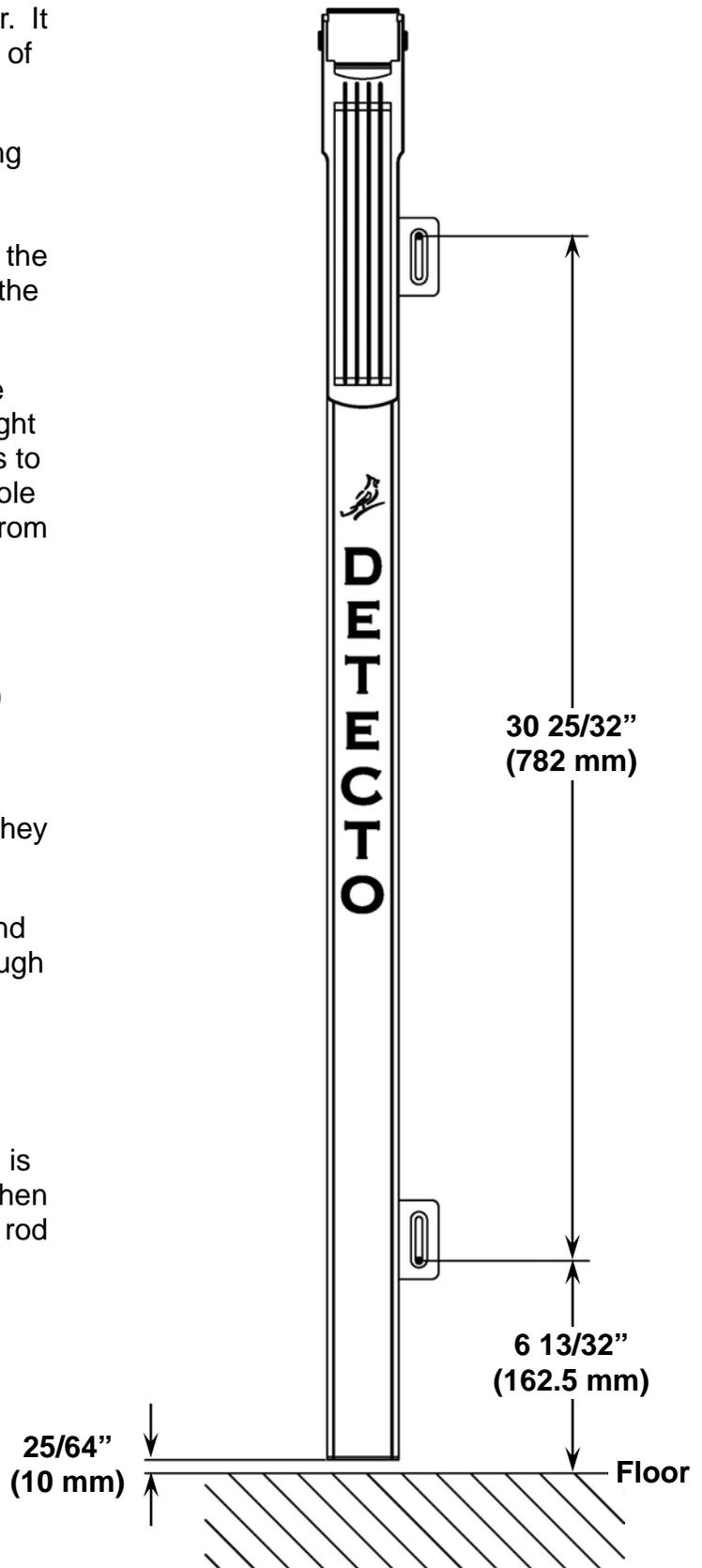


Figure No. 1

# INSTALLATION

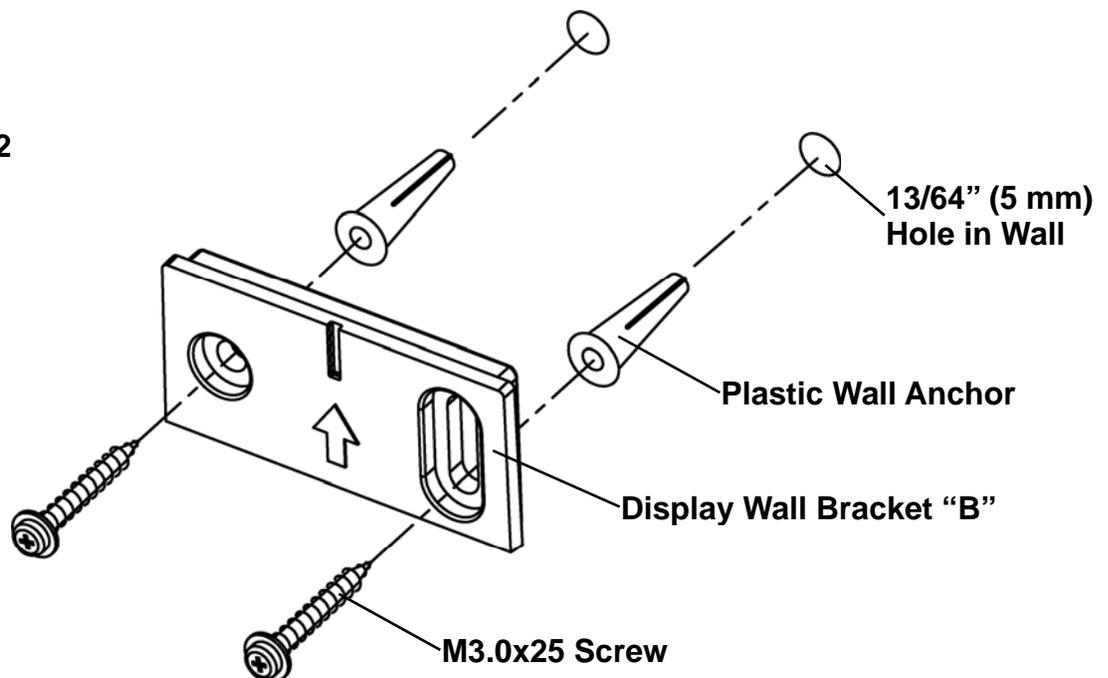
## Mounting the Display

The DHRWM display has a 69" (175 cm) cable to allow it to be placed at a convenient position away from the height rod. A bracket is included to mount the display on a wall or the bracket (and included feet) can be used to place it on a desk for easy viewing.

## Wall Mounting

1. Choose the location to mount the display on the wall. The location should be free of temperature extremes and water. It should be where the display can be easily viewed, not subject to direct sunlight and where the keypad is within easy reach of the operator.
2. Make certain the structure and mounting hardware are of sufficient strength to support the display. The mounting bracket should be securely fastened to the wall so that it cannot break loose from the mounting surface.
3. Referring to Figure No. 2 and using Display Wall Bracket "B" for a template, place the bracket against the wall (*notch and arrow pointing up*) and mark the holes to use to mount it. Remove the bracket and drill two (2) 13/64" (5 mm) holes in the wall for the mounting wall anchors.
4. Insert the wall anchors in the wall until they are flush with the wall.
5. With the notch and arrow pointing up on Display Wall Bracket "B", insert the two (2) M3.0x25 screws through the bracket and into the wall anchors.
6. Tighten the screws to secure the bracket to the wall.

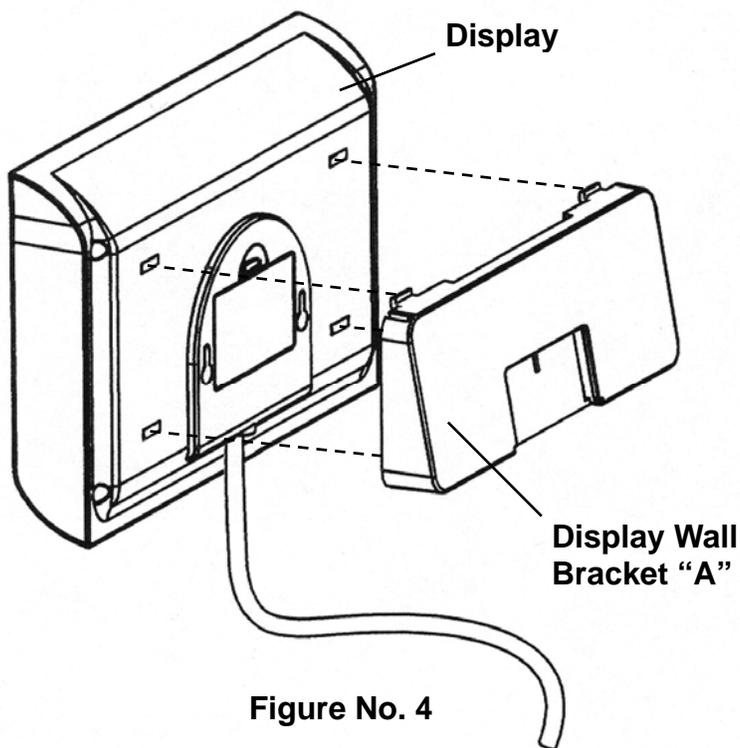
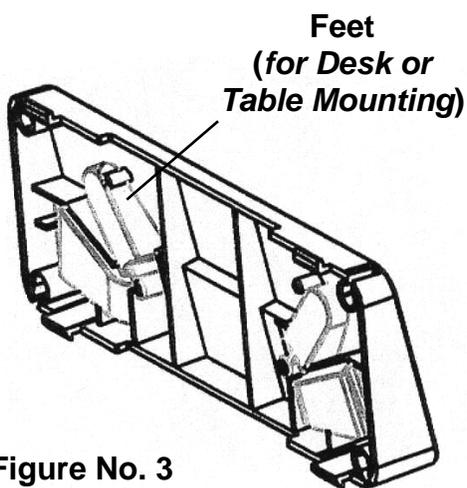
Figure No. 2



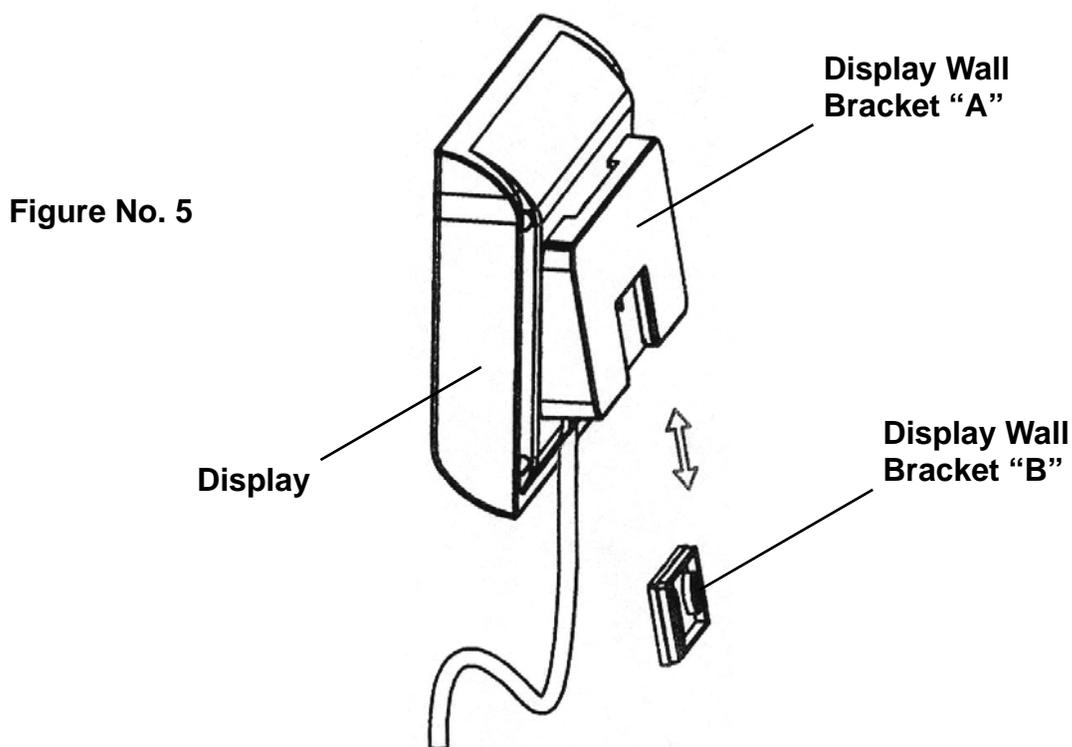
# INSTALLATION

## Wall Mounting, Cont.

7. Referring to Figure No. 3, make sure the four (4) feet of Display Wall Bracket "A" are placed in the bracket.



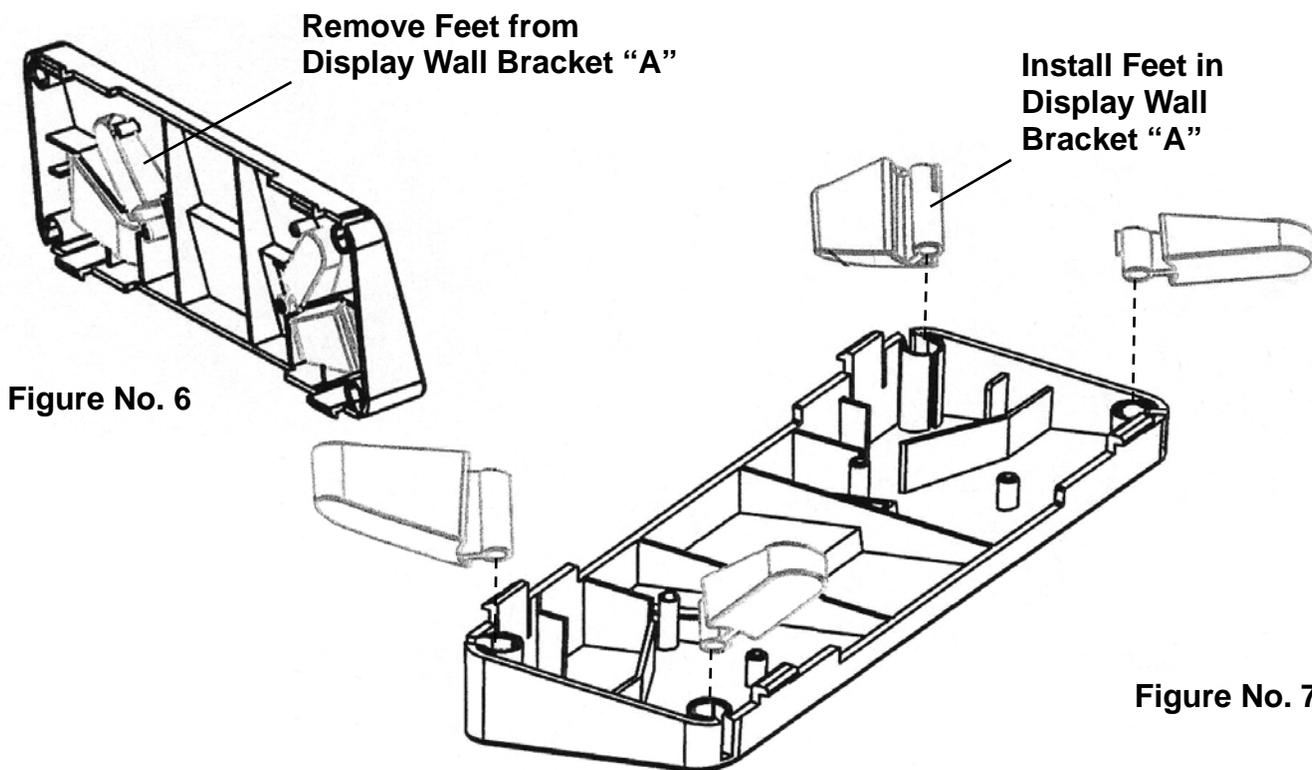
8. Next, locate the four (4) slots on the back of the display and align them with the four (4) tabs on the Display Wall Bracket "A". Refer to Figure No. 4.
9. Insert the tabs into the slots and press together until the bracket locks to the back of the display.
10. Referring to Figure No. 5, align the cutout in Display Wall Bracket "A" with Display Wall Bracket "B" and gently pull down to secure the display to the wall.



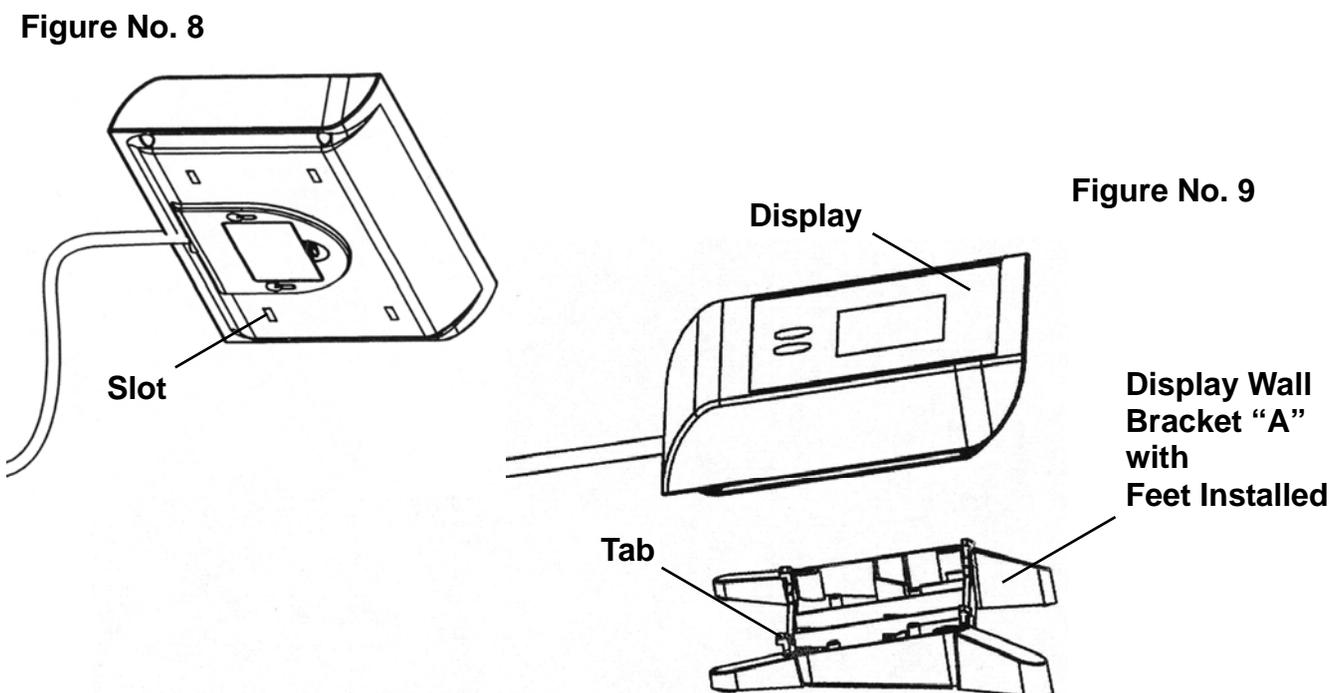
# INSTALLATION

## Desk or Table Mounting

1. The location chosen should be a stable, level surface (either a desk or solid table), free of temperature extremes and water. The display should be where it can be easily viewed, not subject to direct sunlight and where the keypad is within easy reach of the operator.
2. Referring to Figure No. 6, remove the four (4) feet from inside Wall Bracket "A" and install them in each corner of the bracket as shown in Figure No. 7.



3. Next, locate the four (4) slots in the back of the display. Refer to Figure No. 8.



4. Referring to Figure No. 9, align and insert the tabs on the bracket with the slots in the display back and press together until the bracket locks to the back of the display.

## BATTERY OPERATION

Battery operation is a standard feature of the ProDoc Series Wall Mounted Digital Height Rod, although the batteries are optional (not included). You must first obtain and install four (4) "AA" size alkaline batteries before operations can begin. Batteries are contained in a battery holder inside the display. Access is via a removable cover on the back of the display.

### Installation / Replacement

To install or remove the batteries, the following steps should be followed:

1. If wall mounted, remove the display by sliding it up and away from Display Wall Bracket "B".
2. Turn the display over so that the keypad is facing down on the desk or table.
3. Remove Display Wall Bracket "A" and locate the rectangular battery cover on the back of the display.
4. To install or replace the batteries, first remove the battery cover by pushing in on the tab and lifting it up. See Figure No. 10.
5. If installing new batteries, proceed to step 6. If replacing the batteries, remove all four (4) batteries from the battery holder, then proceed to step 6.
6. Install the four (4) new "AA" size batteries in the battery holder, noting the polarity markings located in the battery holder. See Figure No. 11.
7. Replace the battery cover (it will click when locked in place) and return the display to the upright position.
8. Press the **ON/OFF** key.
9. The display will turn on, show all digits then show *1 10.0 cm*.
10. If the display did not turn on, remove the battery cover and check for one or more improperly positioned batteries.
11. The display is now ready for normal operation.

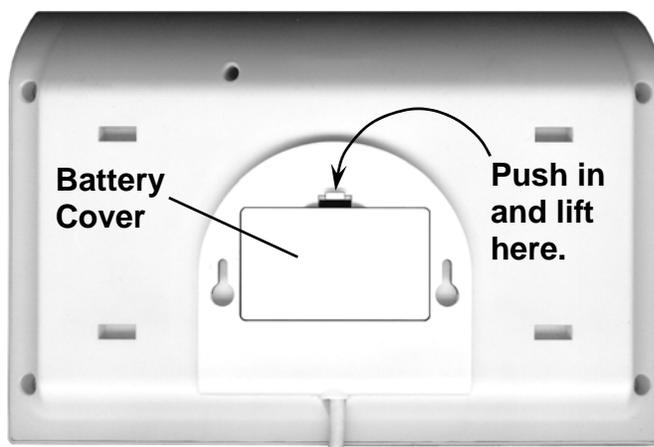


Figure No. 10

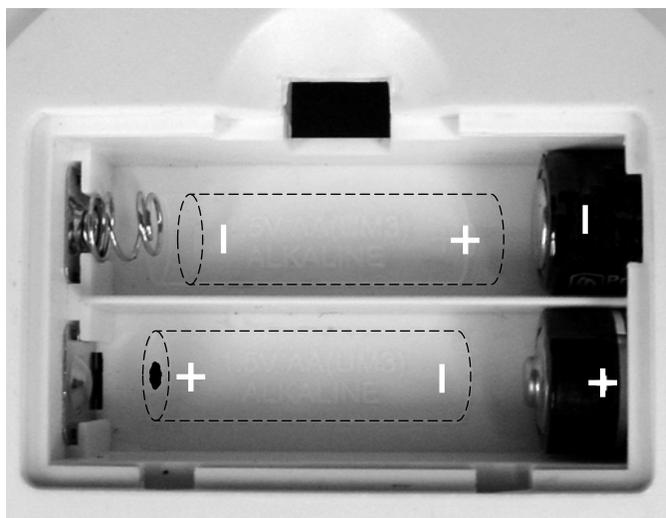


Figure No. 11

#### NOTE!

- If the display is wall mounted, follow steps 8 to 10 on page 5 to re-install on the wall.
- Follow steps 3 and 4 on page 6 if using the display on a desk or table.

### Low Battery

When the batteries are near the point they need to be replaced, the display will show *bAt*. If the battery voltage drops too low for accurate measurements, the display will automatically shut off and you will be unable to turn it back on. When the *bAt* message is displayed, the operator should replace the batteries.

### Automatic Shutoff

The Automatic Shutoff feature will turn the display off after one (1) minute of inactivity to prolong battery life. To turn the display back on, you simply press the **ON/OFF** key.



