Tycos® Aneroid
Sphygmomanometers
Instructions

767 Mobile and Wall Models
**Mobile Aneroid Assembly Instructions**

The Tycos Mobile Aneroid is packaged in two boxes. One box contains the gauge and hardware and the other box includes the base, post, and bracket.

1. Position the bracket to the rear of the gauge as shown.
2. Secure the top of the bracket to the gauge housing with a #7 9/16” self-tapping screw.
3. Secure the bottom of the bracket to the gauge housing with (1) nut, (1) bushing, and (1) screw. Place the bushing over the screw with the flange against the screw head, pass the screw through the housing and bracket from below and assemble the nut to the screw.
4. Assemble basket to the bracket with (3) screws and nuts. Pass each screw through the basket mounting plate and bracket then secure with a nut on the inside of the bracket.
5. Slide the bushing into the bottom of the bracket and the bearing as shown.
6. Secure the post to the base with (1) 3/8” x 1” bolt, (1) split lock washer, and (1) flat washer per the illustration. If assembling the optional weight, use the 2 1/2” bolt.
7. Place the gauge assembly over the top of the post. Secure the bracket to the post with (1) flat washer and (1) acorn nut.

**Wall Aneroid Mounting Instruction**

Prior to mounting the gauge, you can label the unit with a department and/or room location. This aids in keep units organized, if they are taken down for service. The Tycos Aneroid is designed with a flat writing area on the back side of the gauge. Simply lay the unit face down and write a location code in indelible ink.
The Tycos Wall Aneroid is packed complete with gauge, swivel bracket, and mounting screws. You may find it easier to assemble the tubing to the hose connector prior to wall mounting. For ease of assembly, moisten the tube end with alcohol prior to assembly to the hose connector.

1. Fasten lower mounting screw to wall with 1/8 inch (3.175 mm) space between wall and head of screw.
2. Mount the gauge near eye level of the intended user(s). Place the lower key hole on screw. Push downward to position gauge on screw. Level top of gauge basket.
3. Rotate gauge on basket to provide access to upper mounting holes.
4. Fasten upper screws through upper mounting holes.

If the screws supplied are not suitable for the application, select mounting screws of adequate size and type to secure the instrument firmly to the wall.

Operating Instructions

1. Seat the patient and make him/her as relaxed and comfortable as possible, with the arm free of clothing.
2. Rest the arm on a steady, smooth surface at heart level, with the elbow slightly flexed.
3. Select the cuff size appropriate for arm.

   NOTE: Index line on cuff should fall within range marked on the cuff. If the index line falls short of range, use a larger cuff to ensure accurate results. If index line is past the range, use a smaller cuff to ensure accurate results.

4. Wrap the cuff around the arm with the artery arrow located over the brachial artery and with lower border about 2.5 cm above the antecubital crease.
5. Making sure that the ear pieces of the stethoscope are firmly seated in the ear canal, place the bell side of the chest piece over the brachial artery at the antecubital crease.
6. Inflate the cuff rapidly to a level that is about 30 mmHg above the estimated (or palpatory) systolic pressure. Partially open the valve to allow deflation at the rate of 2 to 3 mmHg per second.
7. As the pressure falls, note systolic pressure at the first appearance of repetitive sounds (Phase I).
8. Note the diastolic pressure at the point when Korotkoff sound disappear (Phase V).
9. Rapidly release the remaining pressure and record measurements immediately. After a minimum of 30 seconds, repeat the above steps for a second reading.

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Caution - Do not allow the cuff to remain on a patient for more than 10 minutes when inflated above 10 mmHg. This may cause patient distress, disturb blood circulation, and contribute to the injury of peripheral nerves.

Aneroid Gauge Accuracy

This instrument meets the AAMI accuracy standard for Aneroid Sphygmomanometers which is ±3 mmHg. Aneroid Calibration Check - Welch Allyn, Inc., recommends that the calibration of mechanical sphygmomanometers is checked on an annual basis. Standard pressures to check accuracy at are 300, 250, 200, 150, 60, and 0 mmHg. Pressureize gauge to above 300 mmHg and bleed gauge no faster than 10 mmHg per second to the proper points to perform check. If using a mercury column or another aneroid gauge to check calibration, verify the accuracy of the gauge in question is within ± 6 mmHg. If using a digital pressure standard, and the accuracy of this standard is within ± 1 mmHg, verify the accuracy of the gauge in question is ± 4 mmHg. This product will maintain the safety and performance characteristics specified at temperatures ranging from 0°C (32°F) to 46°C (115°F) at a relative humidity not to exceed 85%.
Cleaning, Disinfection and Sterilization

**Sphygmomanometer** - Clean by wiping with slightly dampened cloth or alcohol wipe.

**Blood Pressure Cuffs** - Safely clean cuffs with a damp cloth or washed in water with soap and detergent. After washing, allow the cuff to air dry.

**Sewn Cuff and Bladder** - Before washing, remove the inflation bag and place the hook and loop fasteners in the closed position.

**One-Piece Cuff** - Before washing the cuff, remove the inflation bulb and tube fitting(s), close off tube(s) with plug* and place the hook and loop fasteners in the closed position. After washing, allow the cuff to air dry. Re-assemble the tube fitting(s).

* Plug is available as accessory #5082-163

**DO NOT PRESS WITH HOT IRON.**

**Disinfection and Sterilization** - Do not use steam or heat to sterilize the cuff, bulb, or tubing. Use gas sterilization, if necessary. Use gluteraldehyde type liquid disinfectants on durable cuffs. Prolonged use of these disinfectants at full strength may cause discoloration of the white cuff markings.

Replacement parts

Order the following parts for Mobile and Wall Sphygmomanometers through a local Welch Allyn dealer:

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Inflation System Basket/Black</td>
<td>5091-47</td>
<td>Coil Tubing 8’ Length</td>
<td>5089-13</td>
</tr>
<tr>
<td>Inflation System Basket/White</td>
<td>7670-07</td>
<td>Base Weight</td>
<td>7670-05</td>
</tr>
<tr>
<td>Crystal</td>
<td>5091-16</td>
<td>Mobile Stand Kit</td>
<td>5091-48</td>
</tr>
</tbody>
</table>

* Plug available as accessory 5082-163

**Warranty**

**Sphygmomanometer** - Your Tycos Sphygmomanometer is covered by a lifetime warranty against original defects in material or workmanship. If the sphygmomanometer is found to be defective or at variance from the manufacturer’s specifications, Welch Allyn will repair or replace the instrument or component(s) at no cost to the purchaser.

**Calibration** - Should the sphygmomanometer deviate from the ±3 mmHg accuracy specification, Welch Allyn will recalibrate the sphygmomanometer at no charge throughout the life of the unit.

**Accessories** - The Welch Allyn One-Piece Blood Pressure Cuff is covered by a 3 year warranty against original defects in material or workmanship. Sewn Cuffs and Bladders are warranted against manufacturer’s defects for a period of 2 years from the date of manufacture. This warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, modification or shipping, and is void if the blood pressure cuff is not used in accordance with manufacturer’s recommendations or if repaired or serviced by other than Welch Allyn or a Welch Allyn authorized representative.

Send all repairs, prepaid, to:

Welch Allyn, Inc.
Technical Service Dept.
4341 State Street Road
Skaneateles Falls, NY 13153
Telephone: 315-685-4560
Fax: 315-689-3361
www.welchallyn.com

**Warning to users** - If luer lock connectors are used in the construction of tubing, there is a possibility that they might be inadvertently connected to intravascular fluid systems, allowing air to be pumped into a blood vessel.

This product conforms to applicable sections of European Standard’s EN1060-1, Non-invasive sphygmomanometers, Part 1. General Requirements and EN 1060-2, Part 2. Supplementary requirements for mechanical sphygmomanometers.