Tycos® Aneroid
Sphygmomanometers
Instructions

509 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 and bottom of the bracket to the gauge housing with 1/2" screws and hex nuts.
3. Assemble basket to bracket with (3) screws and (3) nuts. Pass each screw through the basket mounting plate and bracket and secure with a nut on the inside of the bracket.
4. Slide the bearing and the bushing into the bracket as shown.
5. 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.
6. 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

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.

Mount the bracket to the wall. Mount the gauge near eye level when the user is reading the gauge.

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. It is desirable to use screws which do not have sharp edges on the head since the space between the gauge and wall is available for holding the inflation system when not in use.
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 the range marked on the cuffs. 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 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 palpitory) 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. Pressurize 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 within ±/- 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 fittings.

* 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>
</tr>
</thead>
<tbody>
<tr>
<td>Inflation System Basket/Black</td>
<td>5091-47</td>
</tr>
<tr>
<td>Crystal</td>
<td>5091-16</td>
</tr>
<tr>
<td>Coil Tubing 8’ Length</td>
<td>5089-13</td>
</tr>
<tr>
<td>Base Weight</td>
<td>7670-05</td>
</tr>
<tr>
<td>Mobile Stand Kit</td>
<td>5091-48</td>
</tr>
<tr>
<td>* Plug available as accessory</td>
<td>5082-163</td>
</tr>
</tbody>
</table>

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 manufacturers 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: 315-685-3361
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.

The CE mark on this product indicates that it is in conformity with the provisions of Council Directive 93/42/EEC.

European Regulatory Manager
Welch Allyn Ltd.
Navan Business Park
Dublin Road
Navan, County Meath, Republic of Ireland.
Tel.: 353-46-67700
Fax: 353-46-27128