

# Arch Measurement Guide

REF 633-015

Instructions for Use

The Arch Measurement Guide (AMG) is designed to measure available space in the lower or upper arch (usually lower) from the mesial of the first permanent molars to the most anterior tooth on the study model.

FIG. 2

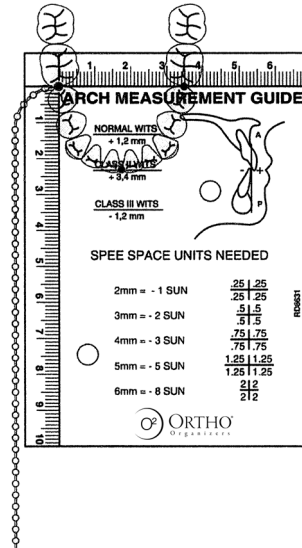


FIG. 3

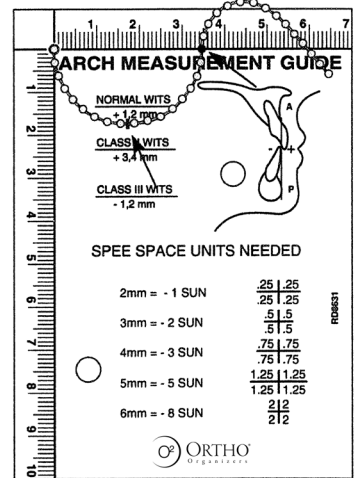
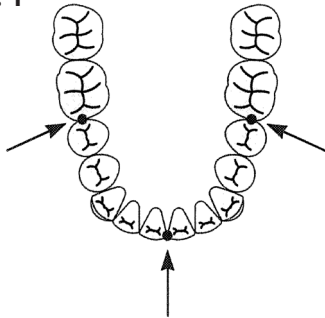


FIG. 1



- Place a pencil dot on the mesial contact area of the 1st permanent molars on each side of the arch. Then place a pencil mark on the incisal edge of the most anterior incisor. (FIG. 1)

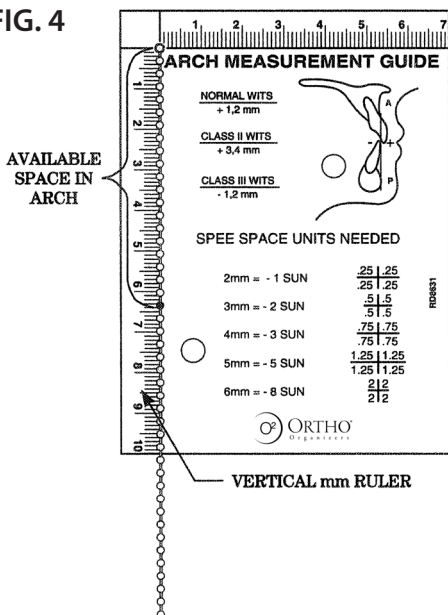
**NOTE:** If permanent molars are in abnormal position, place dot on molar where it would be positioned after proper treatment.

- Place AMG over lower study model. The left side where the chain begins should be placed directly over the dot on the patient's lower right molar. Then place the horizontal millimeter ruler directly over the mesial dot on the patient's left permanent molar. With the AMG positioned over the model, take a water soluble marking pen and place two (2) dots on the guide: one (1) over the patient's permanent left molar to correspond with the dot on the model, and one (1) dot over the most anterior incisor. (Make certain that the horizontal mm ruler is directly in alignment with the dots on the study model molars) (FIG. 2)

- Remove the AMG. Allow chain to drape into an arch form, from the dot on the most anterior tooth around to the dot on the left permanent molar. (FIG. 3)
- Place a dot on the ball of the chain where it meets the dot placed for the lower 1st molar. (FIG. 3)

- To record the distance, release the chain and measure from the dot mark on the chain to the vertical millimeter ruler. This will give you the available space for the lower arch. (FIG. 4)

FIG. 4



- Using a Boley Gauge, measure and record the mesial-distal widths of the individual teeth (2nd bicuspid to 2nd bicuspid) at the contact point. This will give you the required space for permanent dentition cases.

For mixed dentition cases in the lower arch, add the mesial-distal widths of lower four (4) incisors. To this, add 21mm. This gives the width of the unerupted cuspids and bicuspids (both sides). To this, add the width of the four (4) incisors. This gives you the required space.

- The WITS chart on the AMG, represents where the lower incisors should be to the A.P. line at the end of the treatment.

**NOTE:** These are only guides. One must take into consideration racial and ethnic types.

- Place AMG over occlusal plane on the model and measure the depth of the curve of spee on both sides. Add together and divide by two (2). This will give you the average.
- Check with chart to determine how far forward upper and lower incisors will labialize from the leveling process. ie: The deeper the curve, the more the anteriors will labialize.



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