

# INSTRUCTIONS FOR USING THE "A-B-C" WEIGHT SYSTEM OF BALANCING

1. Be sure that the shaft is firmly secured in the base stand by tightening the nut. This is necessary for the correct function of the balancer. Make sure the bubble (circular level) is in the middle of the black circle before using the balancer. This is to insure accuracy of balance. The bubble is mounted into the top of the head assembly cone by three mounting screws. If the bubble is not within the center of the black circle when the head assembly is resting on the support shaft and not being used, adjustment can be made by turning the screws downward. Turn one of the screws downward and the bubble will move away from that screw. Adjustment must be made with the head assembly sitting on the support shaft. (Note: The adjusting screws are very sensitive and self-tapping. A narrow shaft screwdriver is required to make adjustments. Care should be taken to avoid counterclockwise rotation of the screws if possible.)
2. Lay four (4) "A" weights in position at "L", as shown in the diagram. The weights are used in pairs with one of the weights of each pair located on the rim flange and the other weight directly behind it. If the bubble does not float to the middle or beyond the circle, replace four "A" weights with four "B" weights (heavier) and likewise if the bubble does not center or go beyond the circle, replace the four "B" weights with four "C" weights (heavier). It is possible that four "C" weights will not balance the wheel. This may occur when the heavy portion of both wheel and tire are located on the same side. If this condition exists, deflate the tire and rotate it approximately half way around the rim and then re-inflate the tire and repeat the process.
3. After you have determined which four weights to use and have them placed in pairs as shown in Diagram 3, move the pairs in opposite directions from each other around the rim, equal distance from the starting point, until the bubble is centered in the black circle.
4. Draw a vertical chalk line on the tread of the tire directly in the middle of each pair of weights. To accurately draw lines, sight through the middle of the weights to the middle of the balancer. Remove the two pairs of weights and lift the wheel from the balancer. Attach one weight on the inside (underside) of the rim directly in line with each chalk mark on the tire.
5. Replace the wheel on the balancer "outside face" up and lay one of each of the remaining weights on the rim approximately in line with each chalk line. To check for balance, move weights slightly apart or together until the bubble is in the middle of the black circle. Attach the two remaining weights to the outside rim flange.

