

## Installation of Durafirm Stand and Ladder

1. Install the rail support arms on the fulcrum unit for guard rails if necessary, matching coded arms with coded corners of fulcrum box, i.e. corner "A" with arm "A" etc.
2. With the level, locate the highest of the 4 mounting surfaces for the main support. From the assortment of 7 thickness' of square polyethylene shims provided for the leveling to uneven deck conditions, select a shim of 1/8" for the high point. Select other shims for the other mounting surfaces that will give an approximate level.
3. Place the main support into position, foot wheel on the right (facing pool). The fulcrum support must be set level on all four feet -- NO ROCKING. If it rocks with no bolts tightened down, it will distort the top surface of the stand and the fulcrum slide assembly will not function. All silicon bronze bolts should be installed with 5/8" brass washers and have enough length for at least 1/2" of thread engagement, but not more than 3/4".
4. Leveling: By this we mean -- that a precision level be placed across the tracks of the main support at both ends of the tracks. The main support must be exactly level crosswise only and nearly level in the direction of the length of the board. Adjust shims as required to achieve this condition, but maintain the minimum 1/8" shim to isolate the structure from the deck surface. NOTE: The level should be determined with the hold-down bolts reasonably tight and rechecked after the bolts have been tightened with maximum pull on an 18" long socket handle or box wrench. (Three Meter only: Use round shims between box and main support for final leveling if required. Thoroughly tighten the aluminum bolts holding the box to main frame at this point).
5. Ladder site should be rough-set as per step (2) and the ladder positioned over the holes. Deck bolts shall be installed with a 3/4" brass washer next to the slot in the ladder and a 5/8" brass washer under the hex cap screw. Tighten only finger tight.
6. Install the board on the fulcrum (centered on the roller) and install the two board anchor bolts to the hinges -- snug, but not tight. Carefully check ends of board for being parallel to centerline of hinges and shift ladder accordingly. Apply level at anchor end of board just forward of the bolts, and check for level. Shim the feet at the deck accordingly. It may be necessary to "twist" or torque the ladder assembly to square the centerline of hinges to end of board. This can be accomplished by shims at the deck contact point and is done simultaneously with the leveling, if desired. Then tighten deck bolts. All deck bolts and board bolts are to be tightened very thoroughly (110 ft.-lbs. of torque or maximum pull on 18" handle of socket wrench).

7. Bounce the board several times to make sure it does not drift off center of the roller. If it does, loosen hinge to board bolts and adjust before final tightening. If this persists the reason is that the top of the ladder and the centerline of the hinges is not 90 degrees or square with the centerline of board.
8. The preferred pitch or “rise of the board for competition should be (no load) zero or level. The tip of the board should never be “down” or lower than level. If other than a level condition is desired, a maximum of 1” rise at the tip or 1/16” rise per foot of board is recommended. To adjust, merely remove the 6 bolts in the anchor fitting and the entire casting with hinges and board-attach bolts intact, may be moved up or down in increments of 1” to attain proper level. Replace the 6 bolts and tighten thoroughly.
9. The small containers of epoxy pigment and epoxy hardener can now be mixed (equal proportions) and used to touch up all bolt heads and especially the aluminum nuts. Guardrail clamp bolts, if necessary, should also be coated.

NOTE: A drop of amber hardener can also be used as a lubricant to prevent seizing of the aluminum bolt threads.