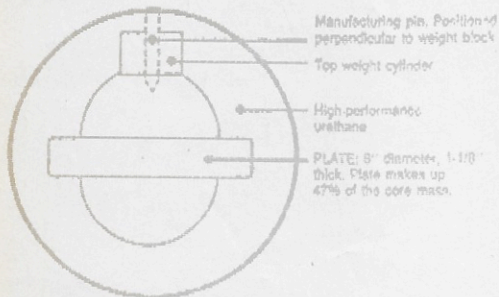




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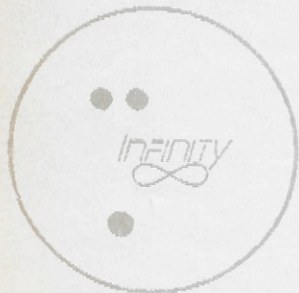
## INFINITY® DRILLING METHODS

Unlike many bowling balls on the market today, the Infinity does not require an elaborate or extensive drilling chart. The Infinity bowling ball combines a thick, high-performance urethane shell with the exclusive Dynabalance™ weight block. The Infinity Dynabalance™ weight block is symmetrical in shape, of uniform density and is located with the plate in the center of the ball. The plate makes up 47% of the mass of the weight block. Also, the center of the plate is located 6<sup>3</sup>/<sub>4</sub>" from the pin in any direction. This gives you the most dynamically balanced weight block currently available, and also, one of the easiest to drill.



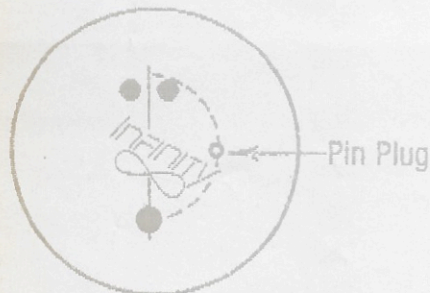
### INFINITY DYNABALANCE™ WEIGHT BLOCK

As shown at the left, the weight distribution of the Dynabalance core is almost equal from left to right as it is from top to bottom. This allows the Infinity to be drilled simply and easily in a number of ways. Label shifts, block, leverage, axis, and drillings using pin placements can all be done using standard methods. The ball will also drill well using the CompuBalance™ computer drilling system.



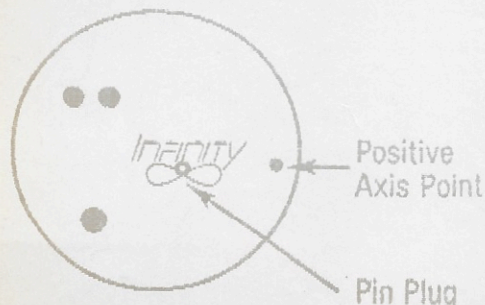
### LABEL SHIFTS

Label shifts are done by moving the grip off the center of gravity (located in the main engraving). This will give you combinations of finger/thumb and positive/negative weights to achieve the desired ball reaction.



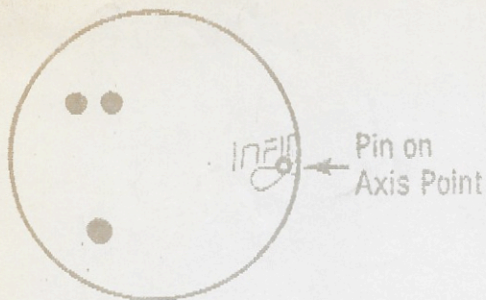
### PIN PLACEMENTS

Drilling an Infinity ball with the pin at least 2" from the center mark of the engraving can create different reactions by rotating the pin up towards the fingers, which will cause the ball to go farther down the lane before hooking; or down towards the thumb, which will cause the ball to hook sooner.



### LEVERAGE WEIGHT

Leverage weight is achieved by placing the core mounting pin at the half-way point between the bowlers track and axis point. This will cause the ball to go farther down the lane before hooking. The hook will be more pronounced than with other drillings.



## AXIS WEIGHT

Axis weight is achieved by placing the core mounting pin on the bowler's axis point. Axis weight will create a more even arc and roll pattern. It is preferable to start with a ball with less than 2.5 ounces of top weight, as a weight hole must be drilled.

FIGURE 1

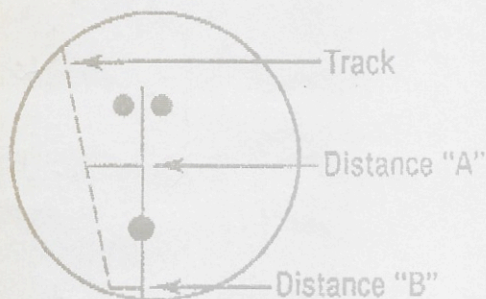


FIGURE 2

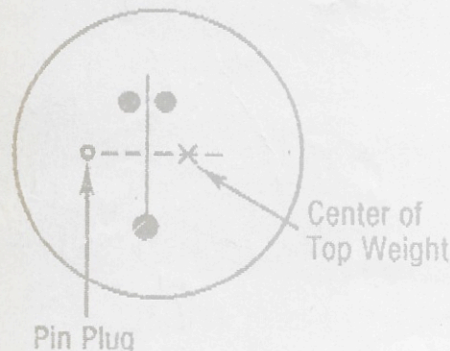
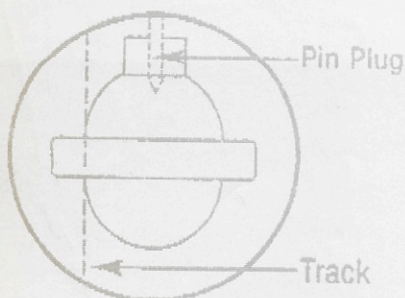


FIGURE 3



## PLATE WEIGHT

The technical staff at Infinity Bowling Products has developed a special drilling method for exclusive use with the Infinity Dynabalance™ weight block. Plate weight places the ball's track perpendicular to the plate and parallel to the axis through the pin. Thus, the plate rotates on the ball's true axis creating a "rolling hook" pattern without overreaction on the back end. Plate Weight is drilled as follows:

- 1) On a ball with a track, find the center of the grip, then, find the center of the track.
- 2) Measure the distance at a right angle, from the center of the grip, to the center of the track. This is distance "A". (FIGURE 1)
- 3) From the center of the grip, go  $6\frac{3}{4}$ " (90 degrees) through the thumb hole and mark the spot. Measure the distance, at a right angle from this spot, to the center of the track. This is distance "B". (FIGURE 1)
- 4) Calculate A minus B. This will give you the "Plate Shift" value.
- 5) Find the pin on the Infinity ball. Place the center of the top weight on the positive side of the ball. (FIGURE 2)
- 6) Draw a line from the center of the pin through the center of the top weight. (FIGURE 2)
- 7) Starting at the center of the pin, make the "Plate Shift"; to the right for righthanders, and left for lefthanders. Mark this spot and use it for the center of the grip. (FIGURE 2)

You can shift up and down to create finger and thumb weight, but Infinity suggests adding an additional hole at  $6\frac{3}{4}$ " (90 degrees) left or right of the center of the grip to create the desired side weight.

The track of the Infinity will now be perpendicular to the plate and parallel to the axis through the ball's pin. (FIGURE 3)

**NOTE:** These are not the only ways to drill the Infinity®. There are many versions of each of these drillings with just as many names for them. Feel free to experiment with your Infinity ball as it will drill well with any of the methods currently in use.

**INFINITY®**

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