



GIES				
	A	0)	7	
		Y	L	

	The Quick Fix - Asym	met	ric L	ayc	outs	
	Layout Specs	Low RG	Int Diff	Total Diff	Diff Ratio	RG PAP
	Undrilled	2.511	0.007	0.054	0.13	
Α	Pin Up 65 x 5 ¼" x 40 CG within 1" of Grip Center		0.020	0.055	0.36	2.552
В	Pin Up 70 x 4 ½" x 40 CG within 1" of Grip Center		0.021	0.057	0.37	2.546
С	Pin Up 85 x 3 ¾" x 30 CG within 1" of Grip Center		0.022	0.060	0.37	2.542
D	Pin Up 85 x 3 ¾" x 30 CG within 1" of Grip Center Motion Hole		0.032	0.066	0.48	2.550
Ε	Pin Up 85 x 3 ¾" x 30 CG 1" pos. of Grip Center Double Thumb Balance Hole		0.028	0.072	0.39	2.528
F	Pin Up 60 x 3 ¾" x 30 CG 1 ¼" pos. of Grip Center Balance Hole on VAL 1 ½" below PAP		0.023	0.064	0.36	2.538

The Quick Fix - Symmetric Layouts					
Layout Specs	Low RG	Int Diff	Total Diff	Diff Ratio	RG PAP
Undrilled	2.511	0.007	0.054	0.13	
Pin Down 75 x 5 ¼" x 80 CG within 1" of Grip Center		0.011	0.044	0.25	2.563
Pin Down 85 x 4 1/2" x 80 CG within 1" of Grip Center		0.012	0.045	0.27	2.561

	Ondrined	2.511	0.007	0.054	0.15	
Α	Pin Down 75 x 5 ¼" x 80 CG within 1" of Grip Center		0.011	0.044	0.25	2.563
В	Pin Down 85 x 4 1/2" x 80 CG within 1" of Grip Center		0.012	0.045	0.27	2.561
С	Pin Down 95 x 3 ¾" x 80 CG within 1" of Grip Center		0.013	0.046	0.28	2.559
D	Pin Down 80 x 3 ¾" x 80 CG 1 ¼" pos. of Grip Center Balance Hole on VAL 1 ½" below PAP		0.015	0.048	0.31	2.556
Ε	Pin Down 35 x 5 ½" x 75 CG 1 ¼" pos. of Grip Center Balance Hole at PAP		0.008	0.043	0.19	2.565
F	Pin Down 90 x 2 ¼" x 50 CG 1 ¼" pos. of Grip Center Balance Hole at PAP		0.006	0.039	0.15	2.554

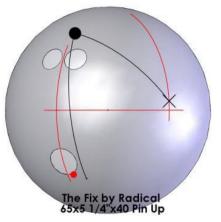
#### RADICALBOWLING.COM



# The Quick Fix **Asymmetric Layouts**

#### Asymmetric Layout A

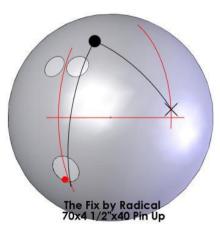
- Heavy Roll/Smooth Motion
- · Ideal for playing up the boards when the lanes break down

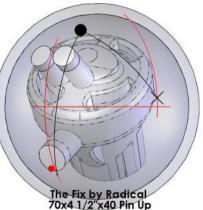




#### Asymmetric Layout B

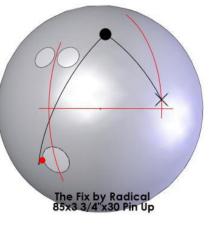
- Medium Overall Hook
- Ideal for all styles on medium oil conditions

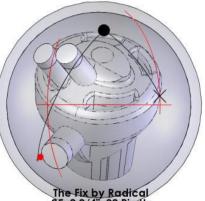




### Asymmetric Layout C

- Strong Overall Hook
- Ideal for covering boards and opening up the lane





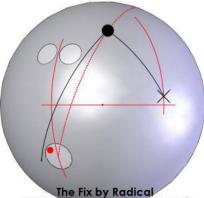
The Fix by Radical 85x3 3/4"x30 Pin Up



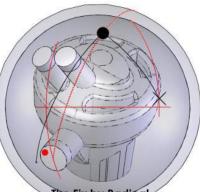
# The Quick Fix **Asymmetric Layouts**

#### Asymmetric Layout D

- Strong Backend Motion
- Ideal for high track players wanting to cover more boards on the lane



The Fix by Radical 85x3 3/4"x30 Pin Up MOtion Hole

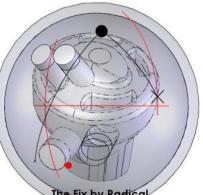


The Fix by Radical 85x3 3/4"x30 Pin Up MOtion Hole

### Asymmetric Layout E

- Maximum Overall Hook
- Ideal for heavy oil lanes, higher ball speed players, or lower track players

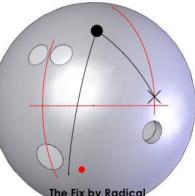




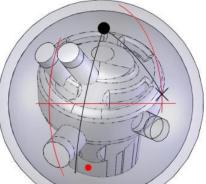
The Fix by Radical 85x3 3/4"x30 Pin Up Double Thumb

#### Asymmetric Layout F

- High Rev Control Layout
- Ideal for playing up the boards or slower ball speed players wanting controllable hook motion



The Fix by Radical 60x3 3/4"x30 Pin Up BAL on VAL



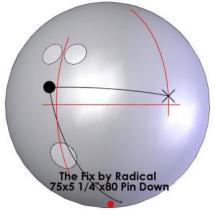
The Fix by Radical 60x3 3/4"x30 Pin Up BAL on VAL

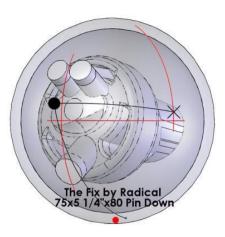


# The Quick Fix Symmetric Layouts

### Symmetric Layout A

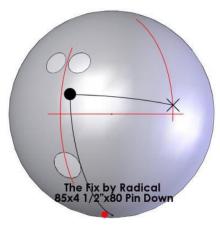
- Control Drilling
- Ideal for smoothing out wet/dry lane conditions

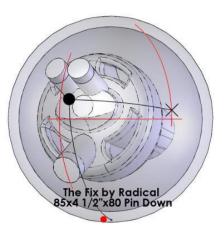




## Symmetric Layout B

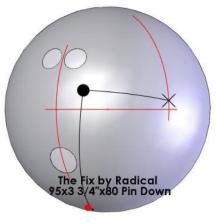
- Medium Hook w/Control
- Ideal for wet/dry conditions when more total hook is needed

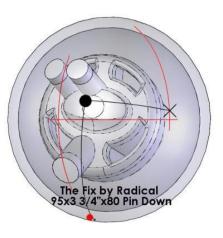




## Symmetric Layout C

- Strong Hook w/Control
- Ideal for lower rev players needing more total hook with control



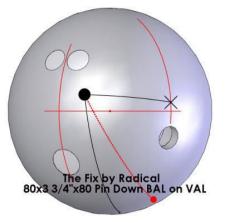


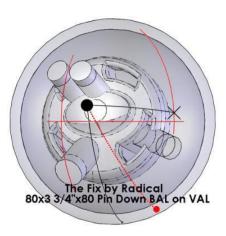


# The Quick Fix Symmetric Layouts

#### Symmetric Layout D

- Strongest Hook w/Control
- · Ideal for medium speed and high rev players needing more total hook

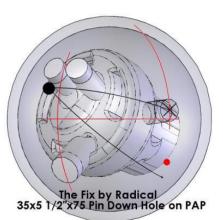




### Symmetric Layout E

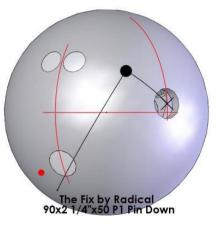
- Moderate Hook
- Ideal for low speed or very high rev players on medium oil conditions





## Symmetric Layout F

- Least Overall Hook
- Ideal for low speed or high rev players on high friction patterns when more control is needed

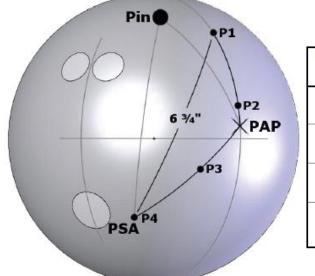






# RADICALBOWLING.COM

**Balance Holes:** If and when a balance hole is needed, we recommend using the "Gradient Line Balance Hole System" for all Radical balls. The Gradient Line extends from the PSA to P1 passing through the PAP.



# Balance Hole Locations on the Gradient Line

Balance hole Position	Location	Change in Ball Reaction		
P1	6 ¾" from the PSA on the VAL	Weakens ball reaction		
P2	1/3 of the distance from the <b>P1</b> to the <b>PSA</b>	Maintains ball reaction		
<b>P3</b>	2/3 of the distance from the P1 to the PSA	Strengthens ball reaction		
P4	PSA	Maximizes ball reaction		

**Ball Surface and Cleaning:** Radical bowling balls are manufactured with a predetermined surface preparation that we feel best compliments the intended ball performance. However, we do recommend sanding, scuffing, or smoothing the surface texture of the bowling ball with the assistance of a qualified pro shop in order to optimize the performance for different styles of players on different lane conditions. We cannot overemphasize the importance of regularly cleaning your Radical ball with a quality bowling ball cleaner IMMEDIATELY AFTER each use. Doing so will insure a more consistent reaction and maximize the life of your Radical bowling ball.

**Determining the Bowler's Initial Axis Tilt:** Initial Axis Tilt is best determined by measuring the distance across the bowler's initial ball track on the surface of the ball. A measurement of >  $11 \frac{1}{4}$ " (<12 degrees) indicates a high track bowler. A measurement of  $10 \frac{1}{4}$ " to  $11 \frac{1}{4}$ " (12 to 18 degrees) indicates a medium track bowler. A measurement of <10  $\frac{1}{4}$ " (>18 degrees) indicates a low track bowler.