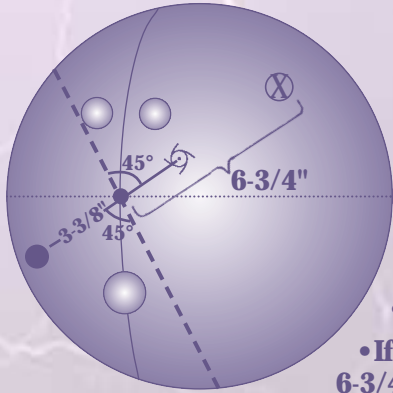


# Layout #4



## FOR FULL ROLLERS

- Locate pin 3-3/8" from grip center at 45° angle from center line in southwest direction.
- Locate CG at 45° angle from center line in northeast direction.
- Use scale to determine static balance.
- If necessary, locate balance hole at 6-3/4" from grip center through CG.

## PRO-PIN™ Technology

- Enhanced Dynamics
- Increased Versatility
- Used almost EXCLUSIVELY on the PBA Tour . . .

**Until Now!**

# STORM

## PRO-PIN™ Drill Instructions

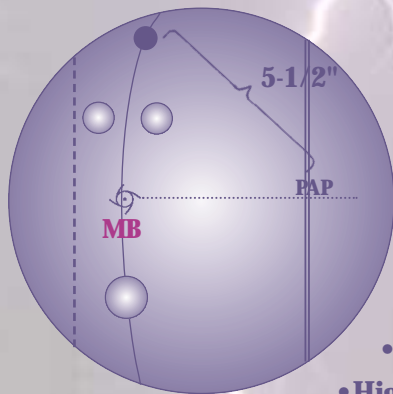
Recommended Layouts  
for EXPERT Ball Drillers

Since the breakthrough of fine tuning reaction characteristics by the use of mass bias placements in the 1990's, large pin out balls have been a staple for many STORM Pro Staffers on the professional tours. Big pin outs occur when the weight block tips to one side of the ball. The further the weight block is tipped, the more the mass is biased to that side of the ball pulling the CG away from the pin. Advantages of these balls are as follows:

- Enhanced dynamics
- Stronger preferred spin axis
- More drilling versatility
- Superior reaction characteristics
- Enables drillers to use larger extra holes increasing flare potential and ball reaction

## ~ STORM LEGEND ~

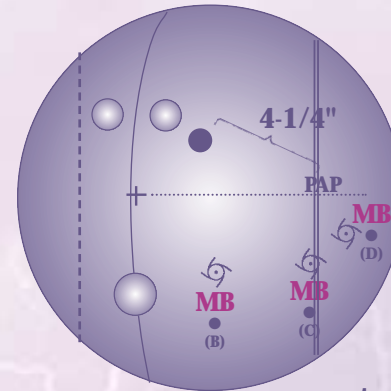
- = Major Pin
- ⊙ = Center of Gravity (CG)
- PAP = Positive Axis Point
- ⊗ = Balance Hole
- - - - = Ball Track
- ==== = Perpendicular Axis Line (PAL)
- MB = Mass Bias  
- used for "fine tuning"



## Layout #1

- Place pin and CG 5-1/2" from PAP.
- Locate MB in between ball track and strong position.
- Use scale to determine static balance.
- High track players will benefit from this layout.

PRO'S FAVORITE  
Ryan Shafer



## Layout #2

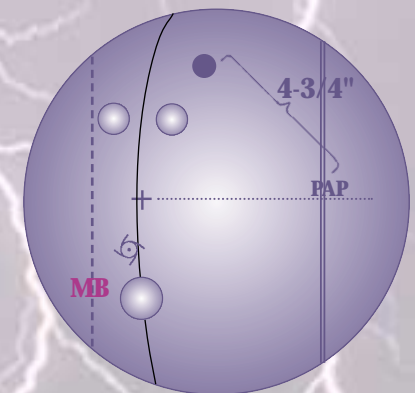
PRO'S FAVORITE  
Kevin Mitchell

• With this layout, we place the pin 4-1/4" from the PAP. This position will produce medium to high flare, great for players trying to "open up" on a medium to heavy oil lane condition.

- For bowlers with medium to high rev rates, this pin position will often produce the most overall hook throughout the entire lane!
- Now select a MB position:
  - (B) Locate the MB halfway between the ball track and PAL to produce a sharp breakpoint.
  - (C) Place the MB at the PAL for an earlier, smoother breakpoint. *NOTE: Be sure to select a ball with less than 3.5 ounces of top weight.*
  - (D) Place the MB 2" past the PAL for a very heavy midlane roll on long oil patterns. *NOTE: Be sure to select a ball with less than 3.0 ounces of top weight.*
- Be sure to check for excess side weight and finger/thumb weight, as a balance hole may be necessary for any of these layouts. If one is required, draw a line from the center of the grip through the CG and extend to the PAL. This will be the location of the balance hole.

## Layout #3

- Place pin 4-3/4" from PAP.
- Locate MB in the ball track.
- Scale ball to ensure static balance. Adjust CG location as needed.
- Produces length and an arcing backend.
- A layout every player should have in their bag.



PRO'S FAVORITE  
Brian Kretzer

GREAT FOR CRANKERS!