

# BLAZING INFERNO



# ACTIVATOR

COVERSTOCK

### Part Number

60-104001-93X

### Coverstock

Activator  
Color: Red/Orange Pearl  
Hardness: 76-77

### Factory Finish

High Gloss Polish

### Core Dynamics

RG-max: 2.564  
RG-min: 2.531  
RG-diff.: 0.033  
Average RG: 4.3

### Performance

Hook Potential: 110  
Length: 115  
Typical Breakpoint  
Shape: 90

### Available Weights

12-16 Pounds

### Hook Potential:



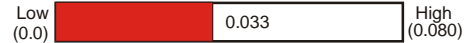
### Length:



### Breakpoint Shape



### Flare Potential:



### RG-average:



## Reaction Characteristics

The **Blazing Inferno** is a higher RG version of the original Inferno. Even though the inner core shape is the same as the Inferno, 1.17 pounds of weight have been moved from the inner core to the outer core. This shift in weight results in a significantly more cover heavy ball. The RG-min of the Blazing Inferno is 0.068" higher and the RG-diff is 0.017" lower than the original Inferno. This change in mass distribution allows the **Blazing Inferno** to be a better match-up when reduced traction through the heads and the mid-lane are desired.

### Compared to your original Inferno:

- The Blazing Inferno will match-up better to drier lane conditions and shorter patterns.
- The Blazing Inferno will match-up better to lane surfaces that are in less than ideal condition.
- The Blazing Inferno will match-up better for bowlers who struggle with early ball reaction.

Brunswick's new **Activator Coverstock** has quickly established a reputation for excellence in ball reaction, durability and longevity of ball reaction. On the lanes, Activator Coverstock is clean through the heads with excellent mid-lane recovery and a strong arcing back-end reaction that creates powerful pin action. Owners of the original Inferno have reported that it requires less frequent resurfacing and rejuvenations and is more resistant to cracking than other reactive coverstock balls.

## Utility

- Out of the Box:** With its High Gloss Polish finish the **Blazing Inferno** will match up well on medium-dry to medium-oily lane conditions.
- When dulled:** The **Blazing Inferno** hooking action will increase and its arc will become more even, creating a better match-up for oily lane conditions and further blending the over/under reactions seen on wet/dry lane conditions.

## Reaction Setup

**Warning:** The **Blazing Inferno** is a low differential ball. This means that high RPM players can use leverage pin positions and medium-low RPM players may need a flare increasing hole to achieve the most aggressive ball reactions. See Brunswick drilling instructions for symmetric core low-differential balls.

The **Blazing Inferno** is finished with a high gloss surface which enhances its appearance and reduces hooking action in the oil. High gloss finishes can sometimes cause over/under reactions, too little hooking action in the oil, then too much hooking action off the dry, which can be hard to control. To increase hooking action and smooth out the ball reaction dull the surface, first with a fine 800-1000 grit abrasive or grey pad. If more hooking action and a smoother reaction is desired dull the surface of the ball with a coarse 320-400 grit abrasive or red pad.

Bring your **Blazing Inferno** back to its original Factory Finish with Brunswick's new **High Gloss Polish**. Available at your local proshop.

For the most up to date Product Line Information go to [www.brunswickbowling.com](http://www.brunswickbowling.com)

# Brunswick® Brunswick Drilling Instructions For Brunswick® Low-Differential Symmetric Core Bowling Balls (12-16 pounds)

Brunswick's ball drilling instructions include eight layouts; one group of four **earlier rolling reactions** (1E-4E), and one group of four **later rolling reactions** (1L-4L). Both groups contain layouts that adjust performance from **high flare and hook potential** to **low flare and hook potential**. Not every layout is appropriate for all types of releases. Brunswick separates bowler's release characteristics by RPM rate and Track position.

- **High-RPM players** and **Medium-Low RPM players**. High RPM players rev the ball at rates greater than 300 RPM. On the men's tour, rev rates range from approximately 250-450 RPM. Most of the men's tour players you see on TV would be considered High RPM players. High RPM players can be sensitive to "over-flaring" which can make the ball hook early and be inconsistent at the breakpoint. Brunswick recommends low to medium flare layouts for High-RPM rate players
- **High-Track players** and **Medium-Low Track players**. High Track players have tracks within 1" of the thumb and finger holes and will usually have a horizontal axis measurement near 6" from grip center. Medium-Low track players have tracks that are greater than 1" from the thumb and finger holes and typically have horizontal axis measurements that are from 3 1/2" – 5".

After determining your bowler type and ball reaction needs, see the table below for recommended layouts. The Symmetric Core Layout sheet is divided into two columns for "Earlier Rolling" and "Later Rolling" Reactions.

- **Earlier Rolling Reactions** match up best to oilier and wet/dry lane conditions, or for players who have problems with the ball going too long before changing direction. These will typically be players who have high ball speeds and/or medium-low RPM rates
- **Later Rolling Reactions** match up best to shorter patterns and drier lane conditions, or for players who have problems with the ball hooking or changing direction too early. These will typically be players who have medium-slow ball speeds and/or high RPM rates.

<u>Track</u>	<u>RPM rate</u>	<u>Earlier Rolling Layouts</u>	<u>Later Rolling Layouts</u>
High	High	3E	All the later rolling layouts can be used by all types of players
High	Medium-Low	No early rolling reactions	
Medium-Low	High	2E,3E,4E	
Medium-Low	Medium-Low	1E,2E,4E	

Brunswick recommends positioning the Heavy-Spot / CG to end up with 3/4 -1oz. of positive side weight and a small amount of finger/thumb weight (less than 1/4 oz.) after drilling. This leaves the driller plenty of room to modify the ball reaction with an X-hole, yet doesn't require that an X-hole be used to make the ball ABC legal.

## Fine Tuning Ball Reactions with an X-Hole

**X-Holes** can be used to **increase** or **decrease** track flare.

- **Increasing track flare** in an existing ball will tend to make the ball more aggressive, hook more, hook earlier and react stronger to the dry areas of the lane.
- **Decreasing track flare** in an existing ball will tend to make the ball less aggressive, go longer, hook less and react smoother to the dry areas of the lane (less over reaction).

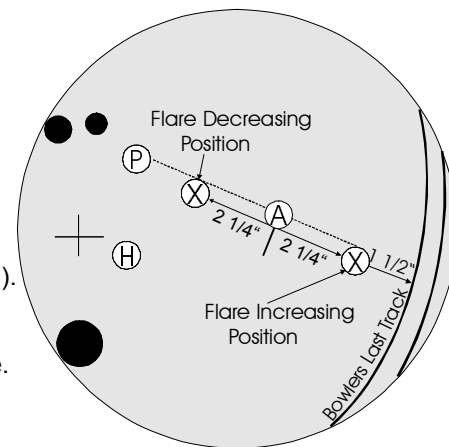
Brunswick is recommending a simplified **one-hole size / two-hole position** technique that covers the vast majority of ball reaction changes that can be accomplished by drilling an X-hole.

- Use a **1" drill bit, 3" deep**, to both increase or decrease track flare.

**Note:** Larger and deeper X-holes result in only slightly greater increases or decreases in track flare. The one-hole size technique has the added advantage of avoiding problems with illegal static weights. As long as the ball was originally laid out with at least 3/4 oz. of positive side weight and a small amount of finger/thumb weight, the 1" X 3" hole using either of Brunswick's recommended X-hole positions will keep you out of static weight trouble.

Brunswick recommends using a position 2 1/4" **past** the bowlers axis to increase flare, and using a position 2 1/4" **back toward the pin** to decrease flare. Using the line connecting the bowlers "axis" and the "pin" as a reference line (see diagram). The X-holes should be on or slightly below the reference line (holes on the line will sometimes drop the narrow point of the track and cause the track to flare over the finger holes).

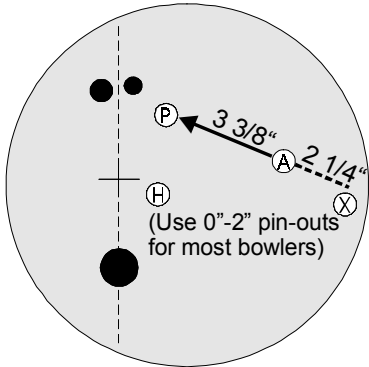
**Warning:** Drilling a "flare increasing" hole can result in the track flaring over the X-hole. After checking the position of the bowlers last track, make sure the "flare increasing hole" is at least 1 1/2" from the bowlers last track (see diagram above). If necessary shorten the distance from axis in order to keep the "flare increasing hole" at least 1 1/2" from the bowlers last track.



## Low-Differential Symmetric Core Layout Sheet

(RGdiff. Below 0.040 )

### Earlier Rolling Reactions

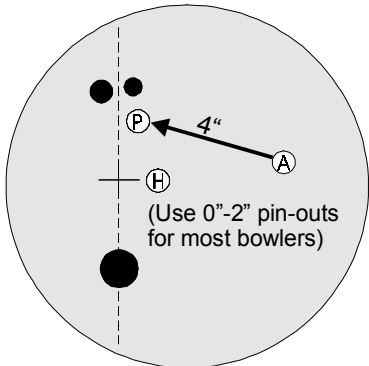


#### 1E (Heavy Oil)

Maximum hook potential for heavy oil.

High-RPM players may not need the X-hole for maximum reaction. Add X-Hole if extra reaction is desired.

This layout may hit the finger holes for **High-Track** players, use layout #1L instead.

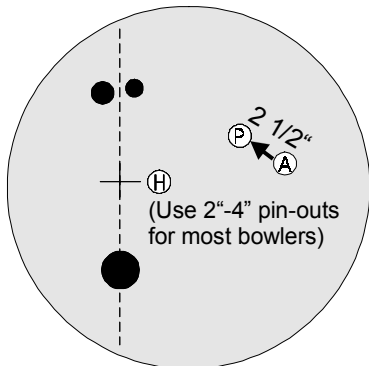


#### 2E (Medium Oil)

Medium hook potential

More length, softer backend and less hook than Layout #1E.

This layout may hit the finger holes for **High-Track** players, use layout #2L instead.

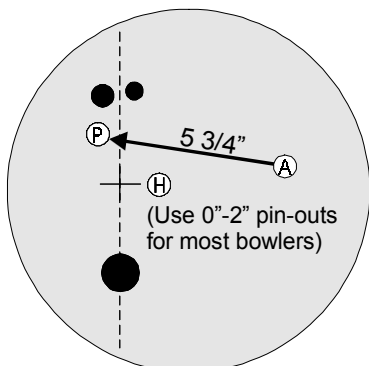


#### 3E (Oily Wet/Dry's)

Pin between axis and leverage for medium hook potential and early roll.

Helps moderate over reactions.

This layout may lack hitting power for **Medium-Low** RPM players



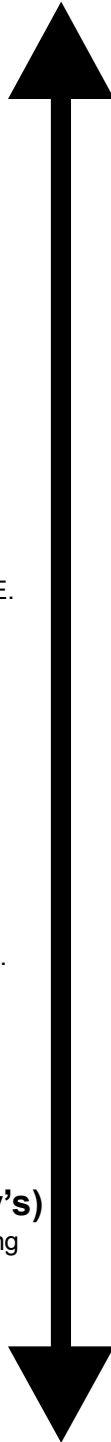
#### 4E (Hooking Wet/Dry's)

Smooth reaction for moderating wet/dry lane conditions.

Lower hook potential than layout #3E.

This layout may hit the finger holes for **High-Track** players, use layout #4L instead.

### High Flare High Hook Potential



#### 1L (Heavy Oil)

Maximum hook potential with less mid-lane and more backend than layout #1E.

High-RPM players may not need the X-hole for maximum reaction. Add X-Hole if extra reaction is desired.

#### 2L (Medium Oil)

Medium hook potential

More length, softer backend and less hook than Layout #1L.

#### 3L (Hooking heads)

High RG pin position with the pin above the fingers for length. X-hole positioned for increased flare.

Moderate hook potential with skid/snap arc to fight early hook in the heads.

Lower hook potential than layout #2L.

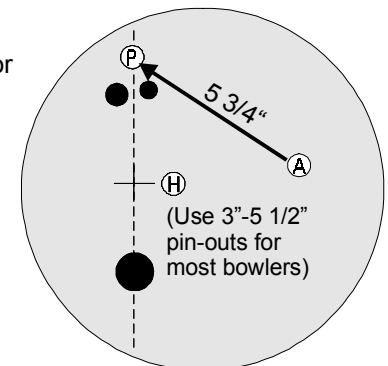
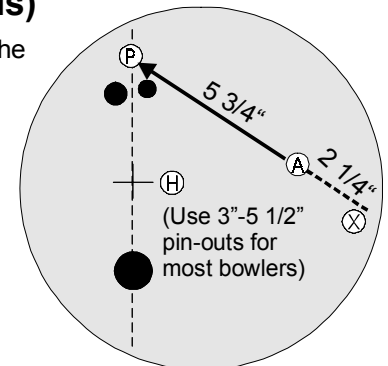
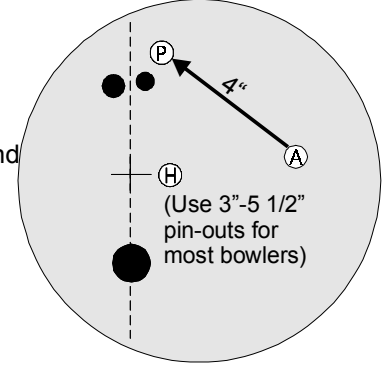
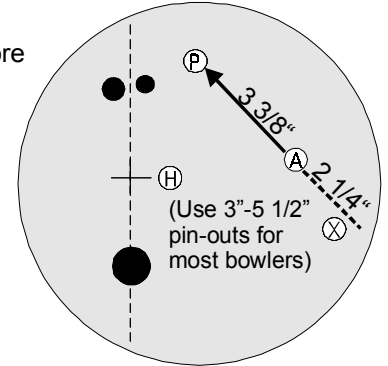
#### 4L (Dry lanes)

Minimum hook potential for dry lanes and moderating over reactions.

High RG pin position with the pin above the fingers for length

### Low Flare Low Hook Potential

### Later Rolling Reactions



Note: Finger, thumb and X-holes must have at least a moderate bevel and the riser Pin (P) must be at least one inch from any drilled hole to comply with the Brunswick warranty



# "Out of the Box" Ball Comparison Chart - 2003/2004

Skid/Snap Reaction  
Sharp Turn

	DRY LANE CONDITIONS				DRY TO MEDIUM LANE CONDITIONS					MEDIUM TO OILY CONDITIONS				OILY LANE CONDITIONS					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1																			
2																			
3																			
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LOW	HOOK POTENTIAL				HOOK POTENTIAL					HOOK POTENTIAL				HOOK POTENTIAL					HIGH
20																			
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	DRY LANE CONDITIONS				DRY TO MEDIUM LANE CONDITIONS					MEDIUM TO OILY CONDITIONS				OILY LANE CONDITIONS					

Even Reaction  
Smooth Turn

## Brunswick Ball Brands

**High Performance** - Cutting edge Coverstock and Core technologies for a wide variety of lane conditions

**Zone** - Bowling's most successful brand name combined with Preferential Spin Axis core technology

**Monster** - Mid-Price - Close to the best for less. More bang for the buck. The Bowling Industry's widest range of Reactive and Proactive reactions at the mid-price point.

**Groove** - Your first performance ball - Plastic slips, Groove grips. Ready to start hooking the ball?  
Move up from Plastic to Proactive, Reactive and Urethane coverstock technology. Get in the Groove!

**Polyester**: Target Zone, Kids Favorite Characters and Viz-A-Ball. Glow-in-the-Dark patterns and colors. 360 degree Limited Edition Graphics. Minnie, Mickey, Snoopy and more.



# "Out of the Box" Ball Specification List - 2003/2004

Balls	Hook Potential	Length	Typical Breakpoint Shape	Coverstock	Factory Finish	Mass Distribution Numbers				Available Weights
						RG-max	RG-min	RG-diff	RG-avg..	
<b>High Performance</b>										
Blazing Inferno	110	115	90	Activator-Coverstock	High Gloss Polish*	2.564	2.531	0.033	4.3	12-16
Raging Inferno	140	60	70	Activator Particle	High Gloss Polish*	2.557	2.515	0.042	3.9	12-16
Inferno	115	105	80	Activator-Coverstock	High Gloss Polish*	2.513	2.463	0.050	2.6	12-16
Fuze Eliminator	125	80	60	Proactive - Low Load	High Gloss Polish*	2.546	2.493	0.053	3.5	12-16
<b>Zone - Bowlings most popular brand combined with Preferential Spin Axis technology</b>										
Warp Zone	150	45	50	Particle - Medium Load	400-grit wet sand	2.600	2.553	0.047	5.5	12-16
Time Zone	105	105	75	PowrKoil 18 - Reactive	High Gloss Polish*	2.580	2.536	0.044	4.6	12-16
<b>Monster - Mid Price Series</b>										
Bruiser Reactive	110	100	75	PowrKoil 18 - Reactive	High Gloss Polish*	2.543	2.500	0.043	3.5	10-16
Swamp Monster Proactive	150	35	35	Proactive - Ultra High Load	35-Micron Trizact	2.587	2.546	0.041	4.8	10-16
SmashR Reactive	115	90	65	PowrKoil 18 - Reactive	800-Grit Wet Sand	2.577	2.536	0.041	4.5	10-16
Frenzy Reactive	90	125	85	N'Control PowerStock - Reactive	High Gloss Polish*	2.577	2.536	0.041	4.5	10-16
SlayR Reactive	70	165	90	PowrKoil LS	High Gloss Polish*	2.543	2.500	0.043	3.5	10-16
<b>Groove - Your first performance ball</b>										
Power Groove Proactive Plum Pearl	75	145	70	Proactive - Low Load	Cerium Oxide - Trizact	2.708	2.667	0.041	8.2	10-16
Power Groove Proactive Black Sparkle	115	70	60	Proactive - Low Load	400-Grit Wet Sand	2.708	2.667	0.041	8.2	10-16
Power Groove Reactive - All Colors	70	155	75	PowrKoil 17 - Reactive	High Gloss Polish*	2.704	2.663	0.041	8.0	10-16
Groove Urethane	50	210	40	Urethane	Polished or 320 Grit Wet Sand	2.703	2.684	0.019	8.3	10-16
<b>Polyester - Awesome designs - Favorite Characters - 360 degree limited edition graphics</b>										
Target Zones	25	235	30	Polyester	High Gloss Polish*	2.715	2.696	0.019	8.7	6,8,10-16
Favorite Characters	25	235	30	Polyester	High Gloss Polish*	2.715	2.696	0.019	8.7	6,8,10-16
Viz-a-Ball	25	235	30	Polyester	High Gloss Polish*	2.715	2.696	0.019	8.7	6,8,10-16

\*Evenly wet sand to a 400-grit finish then apply Brunswick's Factory Finish "High Gloss Polish"

Updated October, 2003