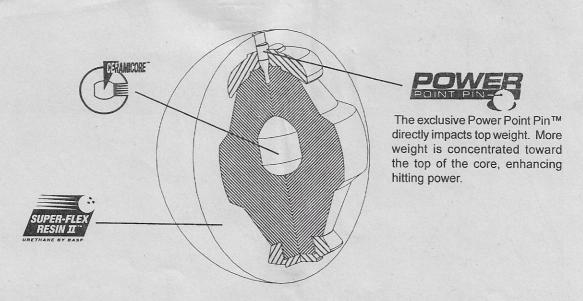


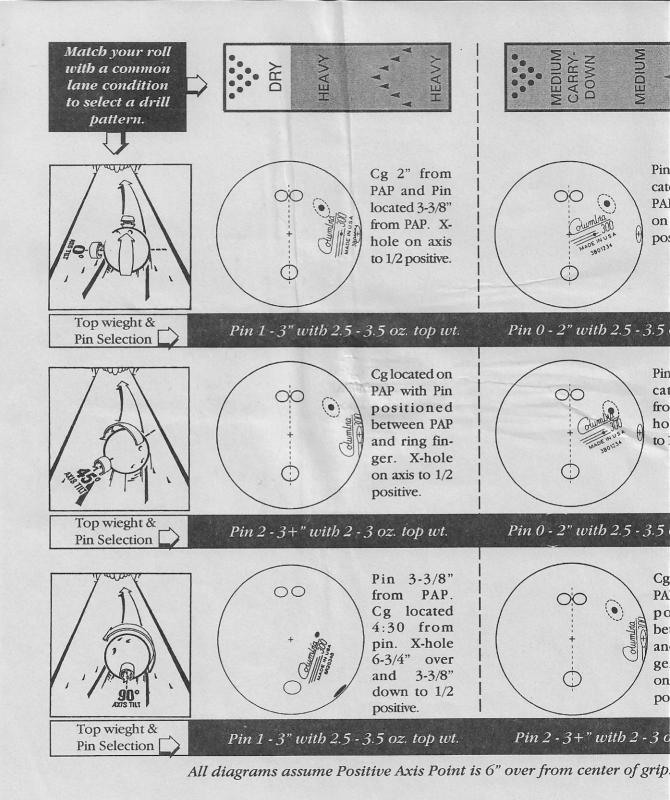
"MAXIMUM BACKEND REACTION"

THIS DRILL SHEET IS DESIGNED TO BE USED AS A QUICK REFERENCE CHART FOR DETERMINING THE OPTIMUM DRILL PATTERN BY MATCHING SPECIFIC BOWLING STYLES TO SPECIFIC LANE CONDITIONS.





Columbia bowls the world over.

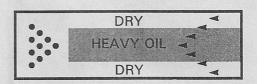


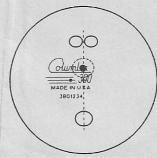


and cg load 4" from P. X-hole axis to 1/2 sitive.



Pin located 5-1/2" from PAP with 1/2 positive on label.





Pin located 6" from PAP with 1/2 negative on label.

oz. top wt.

and cg loed 3-3/8" m PAP. X-le on axis /2 positive.

Pin 0 - 1" with 3 - 4+ oz. top wt.

Pin located 5" from PAP with 1/2 positive on label.

Pin 0 - 2" with 2 - 3 oz. top wt.

Pin 1 - 3+" with 2 - 3 oz. top wt.



Pin located 1" from PAP, cg Approx. 4" from PAP with X-hole (if nessesary) on PAP to 1/2 positive.

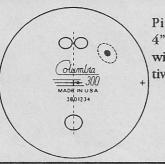
oz. top wt.

located on P with Pin sitioned ween PAP I ring fin-X-hole axis to 1/2

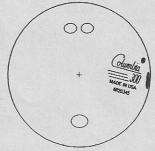
sitive.

z. top wt.

Pin 1 - 2" with 3 - 4 oz. top wt.



Pin located 4" from PAP with 1/2 positive on label.



Pin located 1" from PAP, cg Approx. 2" from PAP with X-hole on PAP to 1/2 positive.

Pin 2 - 3" with 2.5 - 3.5 oz. top wt.

Pin 1 - 2" with 2 - 3 oz. top wt.

See back page for additional information.

POWER POINT PINTM CAUTION STICKER

A caution sticker has been applied around the Power Point Pin^{TM} of each $RAGE^{\mathsf{TM}}$ ball to indicate the area that should not be drilled into. This area was determined by using 1" pitch towards the pin. Use your own discretion when using less pitch. Avoid drilling into the pin by positioning the pin above or below the fingers while keeping the pin the same distance from the PAP. Strict adherence to this policy will avoid drill-bit damage.

EXPLAINING AXIS TILT

"To maximize performance of the RAGE", with Super-Flex ResinII", it is helpful to first identify your axis tilt before choosing a particular drilling layout. Although the <u>axis point</u> is an important locator of a player's track, the <u>axis tilt</u> is more instrumental in determining how a ball will react to the lane, and more importantly <u>when</u> it will begin to react to the lane. In general, a bowler with a 90° axis tilt will naturally produce a later reaction to the lane than a bowler with 0° axis tilt (forward roll), who will produce a much earlier reaction to the lane. For this reason, I have illustrated the 3 basic types of axis tilts and matched them with four common lane conditions. Choose the axis tilt illustration which best resembles your roll, then choose the lane condition which most resembles the one at your bowling center and use that drilling pattern (or a variation there of).

Dave Smart, Technical Tour Representative Columbia 300, Inc.

THINGS TO REMEMBER

- 1. Coupled with it's high RG and medium flare potential, the RAGE is designed to give the competitive bowler more length through the heads and pines allowing for tremendous backend reaction. On most common lane conditions, the RAGE will produce more backend reaction than any other ball on the market today. (Expect a hook potential between the Cuda/C Pearl & the Red Pearl AfterShock)
- 2. Any of the drillings can be drilled back to negative side-weight for earlier roll and less backend.
- 3. PAP is defined as Positive Axis Point.
- 4. Cg is defined as center of gravity (found near the Columbia 300 label).
- $5. \ \ Recognize\ that\ all\ illustrations\ shown\ are\ for\ right-handers.\ They\ must\ be\ reversed\ for\ left-handers.$
- 6. DO NOT DRILL ANY HOLES DEEPER THAN 2-3/4" TO AVOID HITTING THE CERAMICORE™.

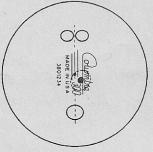
DRILLINGS FOR FULL ROLLERS

LEVERAGE DRILLING



Pin 3+" out with 2.5 to 3.5 oz. top weight. Pin at 7:30 with cg in center of grip.

STABLE DRILLING



Pin 0-2" with 2.0 to 3.0 oz. top weight. Pin at 4:30 with cg in center of grip.