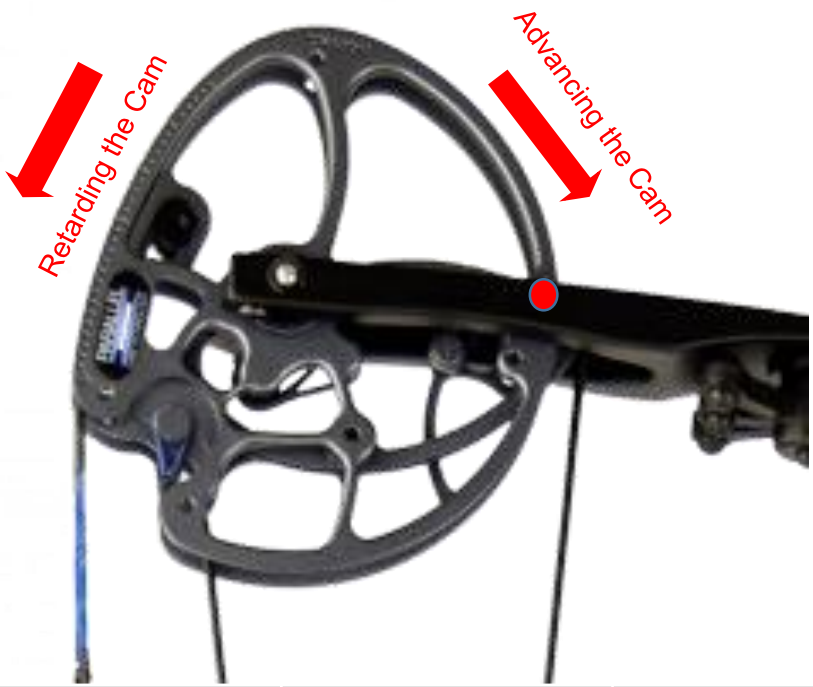

PRIME
2015 Technical
Training

Tuning Tips

- Cam Position & Timing
- Arrow Position
- Cable Guard
- Adjusting String

Cam Position

Cam Position: Refers to position of the cam relative to the limb. Most cams have an optimal position for let-off, draw length, valley, etc.



PCX and PCXL: Optimal cam position shows a half to a full timing hole below the outside surface of the limb.

Note: Axel to axel needs to be within spec to achieve proper poundage at the correct draw length. +/- “1/8”

Check Timing Holes
Adding 1-2 twists advances the cam approximately ½ a timing hole.

Goal	Action	Draw Weight Result	Draw Length Result	Valley Change
Advancing Cam	Add Twists	Increase weight slightly	Increase Slightly	Increases Slightly
Retarding Cam	Remove Twists	Decrease Weight Slight	Decrease Slightly	Decrease Valley

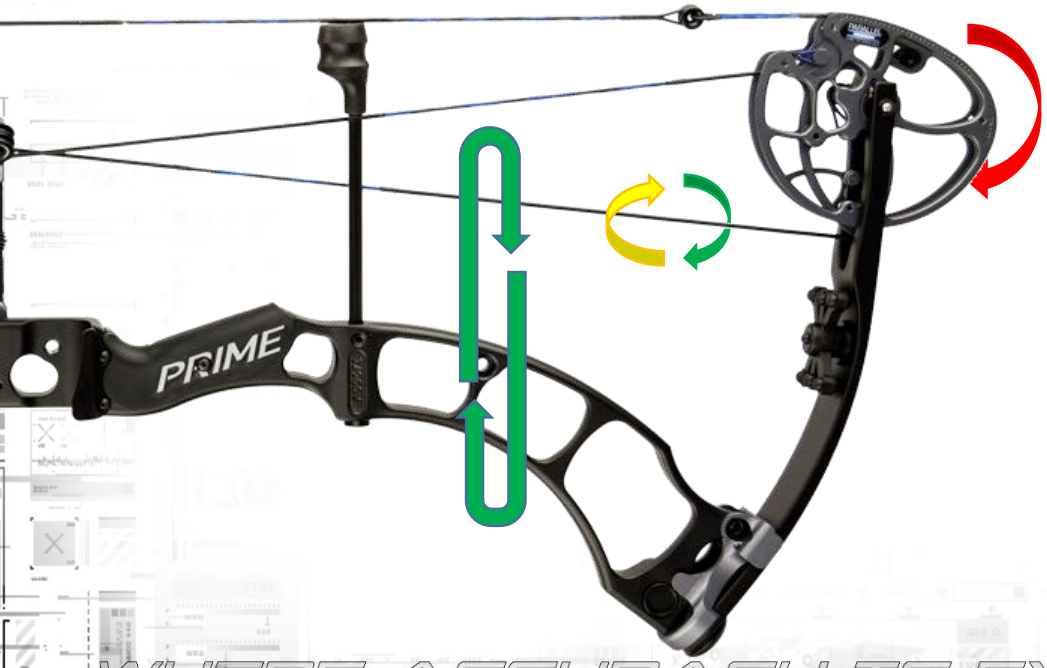
Cam Timing

Technical Training

Cam Timing: When one cam mirrors the position to the other.

Tip: With Prime's increased riser stiffness and mirrored flexing above and below the grip, correct cam timing can be achieved at rest verses at full draw on a draw board.

Which cable do I twist? : Grab cable and riser and squeeze each towards each other and observe which cam advances. Adding twists to that same cable will advance that same cam.



1. Make sure ATA length is correct.
2. Maximum poundage (MAX lb + 5% i.e. 70lbs= 73-74lbs) achieved on the front side of the draw cycle approx. 6-8" (25-30%) into the power stroke.
3. Let-off achieved within 0-1/2" of advertised draw.
4. Set draw stops at desired draw length/ let-off
5. For more valley, advance the cam slightly.

Tuning Flexis Cable Guard

Technical Training

Problem: Most cable guards torque the riser severely at full draw creating inconsistent nock travel and difficulties tuning arrows.

Flexis allows the tuner to adjust cables closer to the arrow to still allow vane clearance and minimize riser torque at full draw. Further the new material provides the same consistency of our limbs.

Tip: Optimal position is 1 turn off the bottom. When maximizing cable guard clearance or bottoming out the guard, could move string position changing center shot.

Making String Adjustments

Technical Training

When adding or removing twists to the string, only make adjustments to the center string and not the yokes. This may be done to shorten draw length or make peep adjustments.

Tip: If yoke splitters/yokes twist in opposite directions when going to full draw, remove 1-2 twists from the center string. Too many string twists will twist donuts at full draw.

Making peep sight adjustments require less twists due to the shortened center string

If one splitter/yoke twists independently, add twists to the yoke on the high side

Yoke Splitter

Changing Strings/Cables and Cams

Technical Training

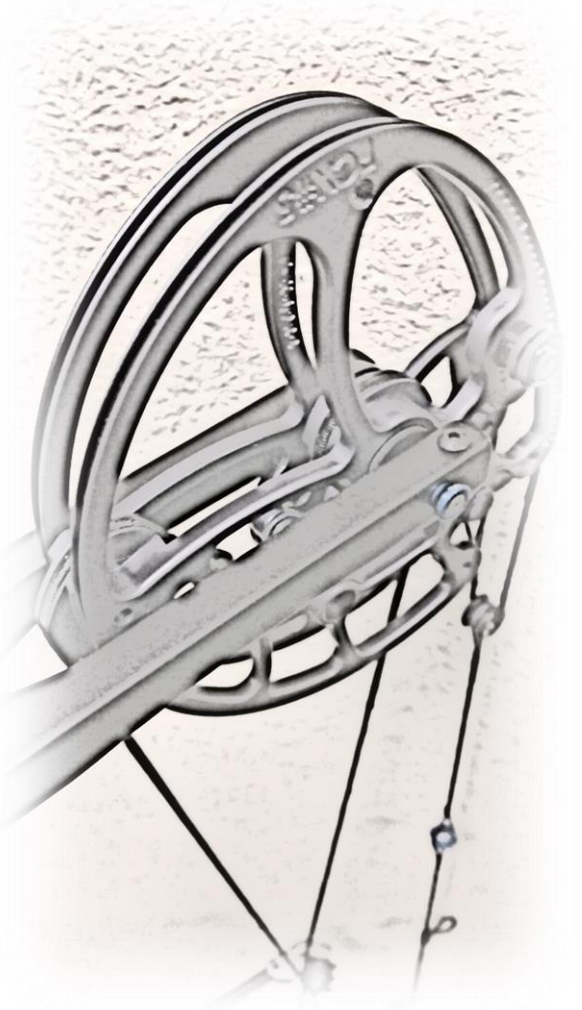
Prime's cam spacers are identical for both sides of the cam. The cam is also recessed to easily locate and center the axel holes, making cam spacer and limb line-up easy.

Option 1: When changing cams, its recommended that you change one cam at a time. By not adding or removing any twists to the cables or strings, timing should not change from one cam to the next.

1. Remove each cable and connect to new cam prior to installing the cam.
2. Install string to the new cam prior to installing cam
3. Remove original cam and install new cam with strings and cables attached.
4. Repeat for opposite side.

Option 2:

1. Remove Flexis bolt.
2. Remove both cams at the same time including cables/strings and flexis guard, and place on workbench.
3. Swap cams out one at a time and reinstall entire cam cable/string/flexis assembly at the same time.



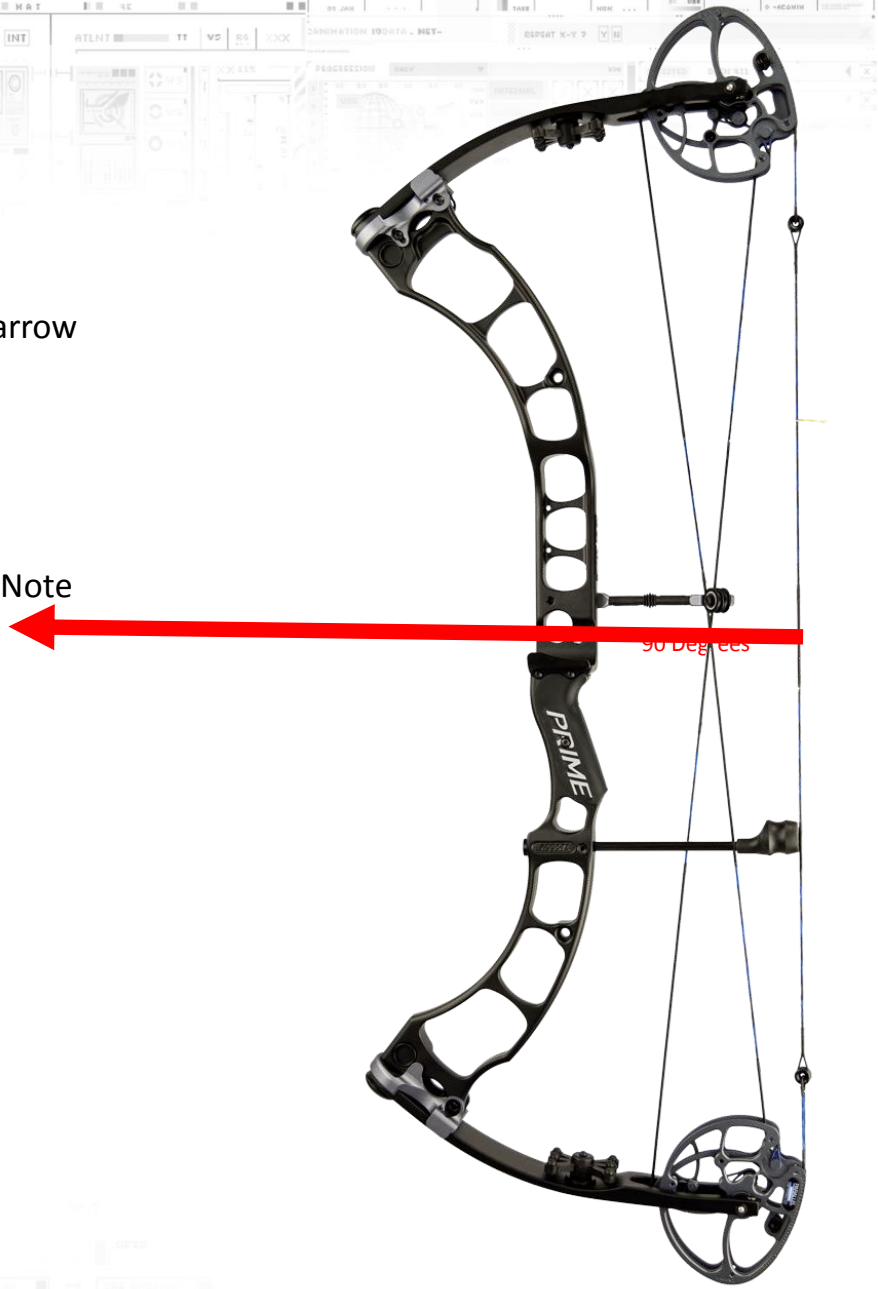
Arrow Set-up

Technical Training

We recommend setting arrow height so the center of the arrow shaft is even with the top of the berger hole

Nocking point should be perpendicular to the string

Center shot is approx. 13/16” from the inside of the riser. Note cable guard position could affect string position +/- 1/8”.



PCX and PCXL Selection Chart

Technical Training

DL	RIVAL	ION	ALLOY
30	PCXL1	PCXL1	PCX1
29.5	PCXL2	PCXL2	PCX2
29	PCXL3	PCXL3	PCX3
28.5	PCXL4	PCXL4	PCX4
28	PCXL5	PCXL5	PCX5
27.5	PCXL6	PCXL6	PCX6
27	PCXL7	PCXL7	PCX7
26.5	PCXL8	PCXL8	PCX8
26	PCXL9	PCXL9	PCX9

Note: Let-off comes factory set at 85% on PCXL.
Let-off for PCX comes set at 75%.

Target Archery Refined: 2015 Target Pocket

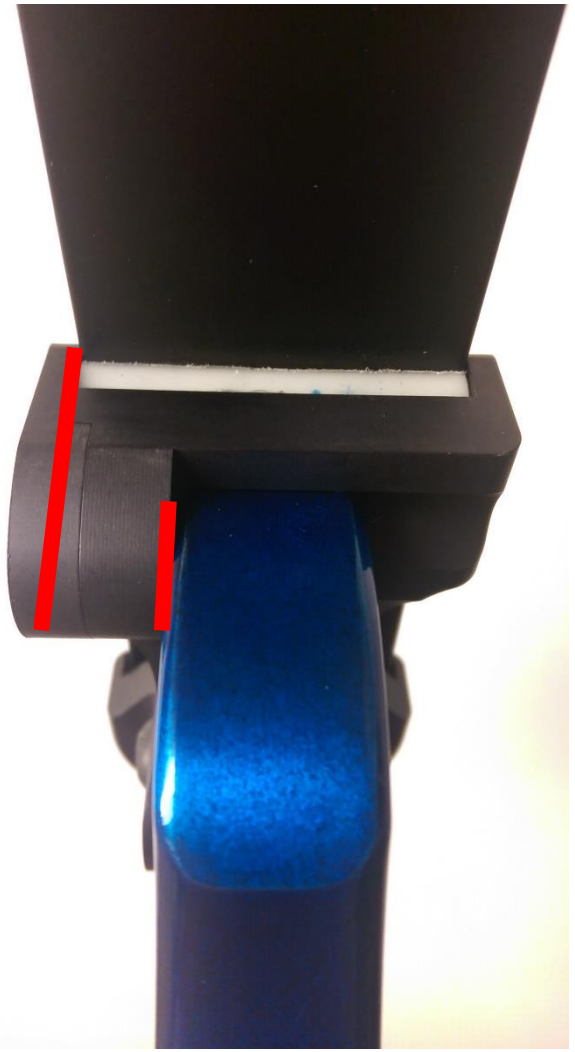
Technical Training

Two important features:

Most bow's do not locate the pocket consistently to the riser. Regular pockets could "float" when not bottomed out.

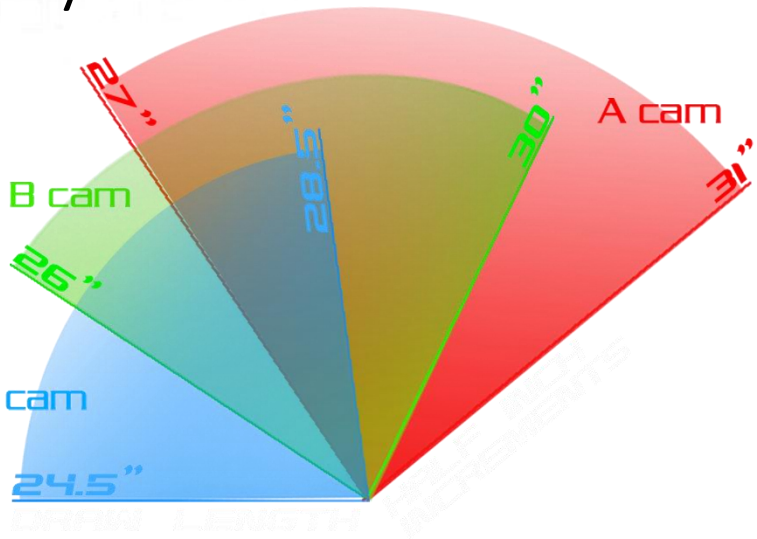
Advantage: Consistent pocket alignment even when the limb is let-out.

Zero-Tolerance pocket clamps the limb to the pocket



Target Archery Refined: PCT System

Technical Training



ALL NEW PCS

PARALLEL CAM SYSTEM

WHERE ACCURACY IS EVERYTHING

PRIME

Target Archery Refined: PCT System

Technical Training

ALL NEW PCS
PARALLEL CAM SYSTEM

Most “modular” systems only adjusts portions cable track making it difficult to maintain efficiency and feel. The more adjustment in the cam, you have greater in-efficiency as you go shorter in draw length

PCX, PCXL gives you maximum performance per draw length. Most bows looses 10FPS or greater per inch of draw length change. With PCS, PCX, PCXL you’re 1-2 fps/inch MORE efficient then other cam systems because cable posts and let-out is optimized per draw.

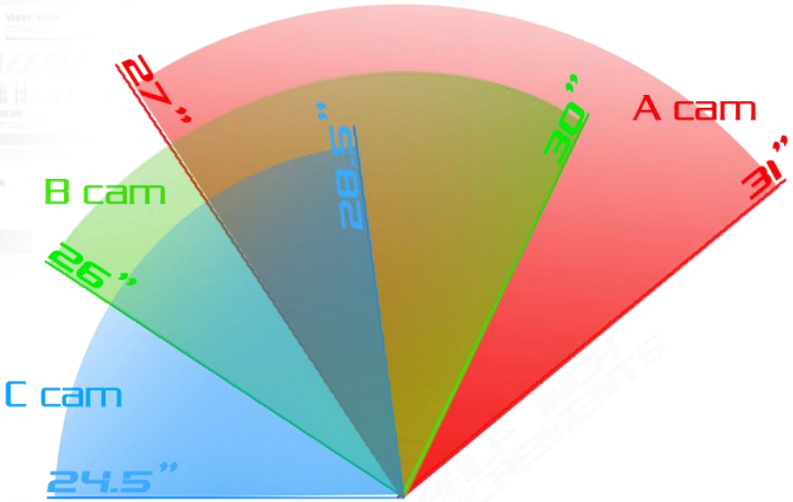
PCS Mod/Cam Benefits:

- Not classically “modular” compared to other models.
- Mod gives you performance of cam specific bows. Cable post and let-out track specific to draw
- Customize let-off and speed by adjusting cam

C-Cam B-Cam A-Cam

Target Archery Refined: PCT System

Technical Training



- A-Cam represents the least aggressive, greatest let-off
- B-Cam represents the best of both worlds. Smoothness + Speed
- C-Cam gives more performance, less let-off, more speed for shorter draw lengths

With draw lengths having over lapping cam options, you there is a 5pps difference per cam. Example: 28” C-Cam is 10fps faster then 28” A-Cam

Each cam requires a specific yoke and rocker set. These will come with cam the cam sets. Cables, center string and limbs stay the same.

DL	A Cam	B Cam	C-Cam
31	PCS1		
30.5	PCS2		
30	PCS3	PCS1	
29.5	PCS4	PCS2	
29	PCS5	PCS3	
28.5	PCS6	PCS4	PCS1
28	PCS7	PCS5	PCS2
27.5	PCS8	PCS6	PCS3
27	PCS9	PCS7	PCS4
26.5		PCS8	PCS5
26		PCS9	PCS6
25.5			PCS7
25			PCS8
24.5			PCS9

Shaded area represents cam/mod combination in-line bows will be shipped

New PCS cams gives you the option of limb stops or cable stops depending on shooting style

WHERE ACCURACY IS EVERYTHING