

The InSight Peep System Instructions

The InSight™ Peep System is made up of four main pieces including the light baffling peep housing, clarifying lens, aperture, and the aperture tool. There are 6 aperture sizes ranging from 1/32" up to 5/32" as well as 4 different clarifier lens strengths to accommodate a wide range of shooting setups. The peep housing can be used with or without a clarifying lens and has two sets of string grooves to better accommodate a wider range of shooters. We recommend installing/removing the apertures using the Hamskea Aperture Tool to avoid possible damage to the aperture.



InSight Housing



Clarifier Lens



Aperture

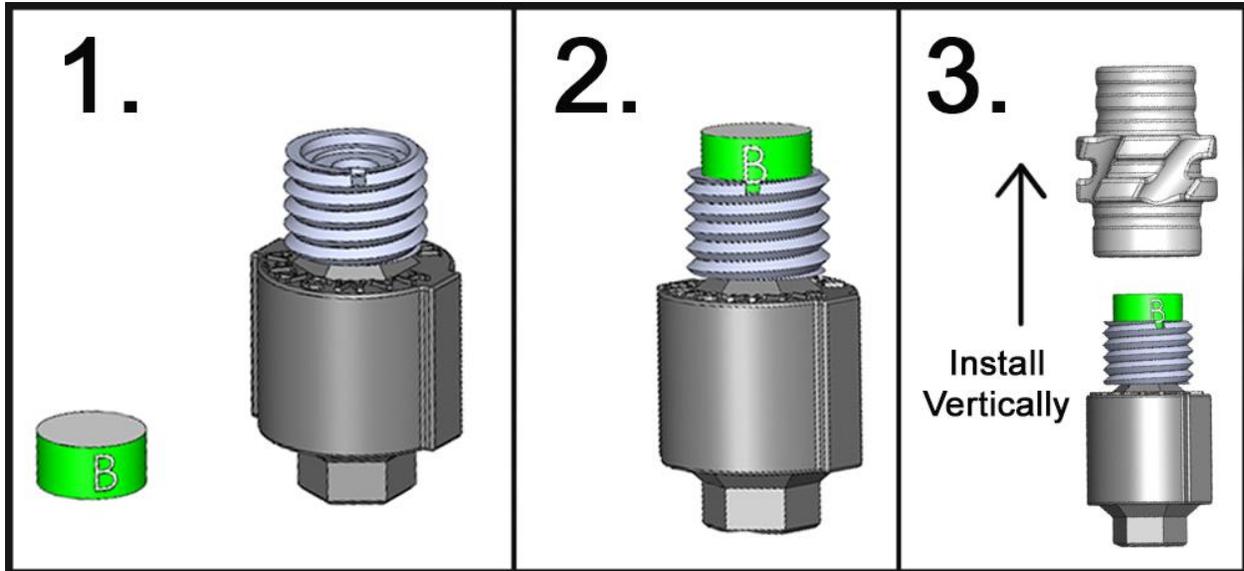


Aperture Installation Tool

Warning: You must properly tie your peep sight into the string before shooting. Failure to do so may result in personal injury or damage to equipment. Make sure that the peep is firmly held in place with the braided serving material going around the peep circumference and string material as seen below.



Installing a Clarifying Lens into the Hamskea Insight™ Peep System



1. In order to install an aperture and clarifier lens into your InSight™ Peep Housing, you will want to select the specific aperture and clarifier lens that best fits your needs using the reference selection chart below and lay them in order with the aperture tool shown in Picture 1.
2. You will then want to place the aperture on top of the top of the Hamskea Aperture Installation tool so that both are vertically in line as shown in Picture 2.
3. When placing the clarifier lens within the raided edge of the aperture, you will want to align the letter of the lens with the slot in the aperture as shown in Picture 2. Aligning these will help to consistently orient/co-register the lens every time it is installed.
4. The final step is to install the clarifying lens and aperture vertically into the peep housing using the tool to tighten until snug as shown in Picture 3. The aperture should thread in smoothly without the lens becoming bound on the edges of the housing. The peep sight must be held vertically during the installation to prevent any possible damage to the lens.
Warning: If the aperture works loose during shooting, you must reinstall the lens/aperture combo starting at step 1.
5. **NOTE:** If this installation procedure is not followed, damage may result to any of the components of the InSight™ peep system and will not be covered under warranty.

InSight™ Peep Clarifying Lens Selection Instructions:

1. Determine your peep to sight/scope length. If you do not know this dimension, a close approximation will be your draw length.
2. Using the table below, identify the column that most closely matches the value from the previous step.
3. Identify the row that corresponds to your scope lens magnification (2x, 3x, 4x, etc.) and follow that row until it intersects with the column from the previous step. The letter in that intersection table entry will be the recommended clarifying lens (A, B, C or D).

Clarifier Selection Chart

Forward Lens Power	Diopter	Peep-To-Sight Length					
		34"	32"	30"	28"	26"	24"
2X	0.25	NA (1.28)	NA (1.26)	NA (1.24)	NA (1.22)	NA (1.20)	NA (1.18)
3X	0.33	A (1.4)	A (1.37)	A (1.37)	A (1.31)	A (1.28)	A (1.25)
4X	0.5	A/A+ (1.76)	A (1.68)	A (1.62)	A (1.55)	A (1.49)	A (1.44)
5X	0.6	B/A+ (2.08)	A/A+ (1.95)	A/A+ (1.84)	A/A+ (1.74)	A/A+ (1.66)	A/A+ (1.58)
6X	0.75	C (2.84)	B (2.56)	B (2.33)	B (2.14)	B (1.98)	B/A+ (1.84)
7X	0.87	C (4.02)	C (3.42)	C (2.97)	C (2.62)	C (2.35)	C (2.13)
8X	1	D (7.34)	D (5.35)	D (4.21)	D (3.47)	C (2.95)	C (2.56)

It is important to note that everyone's eyes are different and the clarifier that fits your needs best may differ from what is listed on the above chart.

Selecting the Proper String Groove:

For the best results, you will want your peep housing to sit as flat as possible at full draw for a straight line of sight towards the target.

1. Using the chart below, determine your approximate string angle based on Draw Length and Bow Length (Axle to Axle).
2. Once you have your approximate string angle you will be able to identify if you need either the 37.5° or 45° string grooves on the Standard InSight™ Peep housing, or if the 52.5° string groove present on the Short Draw Peep Housing would best fit your needs.

InSight Peep System String Groove Selection Chart

		Bow Length(Axle to Axle)										
		32	33	34	35	36	37	38	39	40	41	42
Draw Length	22	53.64	54.39	55.11	55.80	56.47	57.12	57.74	58.36	58.94	59.51	60.05
	23	51.60	52.30	53.00	53.84	54.52	55.19	55.83	56.46	57.06	57.65	58.21
	24	49.73	50.49	51.25	51.97	52.66	53.35	54.00	54.65	55.26	55.87	56.45
	25	47.93	48.70	49.46	50.19	50.89	51.59	52.26	52.92	53.54	54.16	54.76
	26	46.20	46.98	47.76	48.50	49.21	49.92	50.59	51.26	51.89	52.52	53.13
	27	44.60	45.38	46.15	46.90	47.61	48.32	49.00	49.67	50.31	50.95	51.57
	28	43.08	43.85	44.63	45.37	46.09	46.80	47.48	48.16	48.81	49.45	50.07
	29	41.63	42.41	43.18	43.92	44.64	45.35	46.04	46.72	47.37	48.01	48.64
	30	40.30	41.05	41.80	42.54	43.26	43.97	44.66	45.34	45.99	46.64	47.26
	31	38.90	39.70	40.49	41.23	41.95	42.66	43.34	44.02	44.67	45.32	45.95
	32	37.75	38.50	39.26	39.98	40.69	41.40	42.08	42.76	43.41	44.06	44.69
	33	36.59	37.34	38.10	38.80	39.51	40.21	40.89	41.56	42.21	42.86	43.48

37.5° Groove
 45° Groove
 52.5° Short Draw Peep Housing

Note: These values are approximations and string angles may vary slightly depending on bow model and cam size.

You can easily identify string grooves on the Standard InSight™ Peep Housing by locating the small dimple present in the 45° string angle. The string grooves without the dimple will be 37.5°.

InSight String Groove Indicator

