

Bear Tooth Kit Bushing and Tube References

Revised Feb. 19, 2014

Please report any additions, corrections,
requested revisions or suggestions to:
WRACINOWSKI at WI dot RR dot COM

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Note: All data was compiled from suppliers
published kit, tube and bushing information.



Style 1



Style 2



style 3



Some Kits may require
modifying tube length.



Typical Mandrel Diameter
Sizes
A - .247 Dia. B - .291 Dia.



Beartooth Kit Description	Category & Size	Kit Supplier	Kit Style	Beartooth Replacement Tubes	Beartooth Bushing Set
Atrax Twist Cap BP	Large Sized Single Tube BP Pens	Bear Tooth Woods	2	Atrax Ballpoint Pen	31A
Atrax Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Atrax FP/RB	30A
Baron Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Reinhart Baron Sedona FP/RB	19A
Bowtie Cigar Twist BP	Large Sized BP Pens	Bear Tooth Woods	2	x	22A
Bullet Cartridge Click Pen	Bullet Style BP Pens	Bear Tooth Woods	2	Cartridge Bullet	26A
Bullet Cartridge Twist Pen	Bullet Style BP Pens	Bear Tooth Woods	2	Cartridge Bullet	26A
Cambridge / Hybrid Screw Cap RB & FP	Ornate Large Sized RB & FP Pens	Bear Tooth Woods	3	El Grande Churchill Cambridge FP/RB	16B
Carbara Twist BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Carbara	16A
Churchill Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	El Grande Churchill Cambridge FP/RB	16B
Cigar .5mm Pencil	Large Sized Pencils	Bear Tooth Woods	2	Cigar Pen/Pencil	11A or 19B
Cigar Twist BP	Large Sized BP Pens	Bear Tooth Woods	2	Cigar Pen/Pencil	11A or 19B
EL Grande Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	El Grande Churchill Cambridge FP/RB	16B
EL Grande Twist Cap BP & Pencil	Large Sized BP Pens	Bear Tooth Woods	2	El Grande Pen/Pencil	16B
Electra Screw Cap RB	Large Sized Single Tube RB & FP Pens	Bear Tooth Woods	3	Electra FP/RB	29A
Elegant Beauty Sierra Click BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Elegant Sierra Button Click	20A
Elegant Beauty Sierra Twist BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Sierra Sierra Vista Elegant Sierra Virage Pen	20A
Flat Top .7mm Pencil	Medium Sized Pencils	Bear Tooth Woods	2	Flat Top Pen/Pencil	1B
Flat Top American Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	Flat Top Pen/Pencil	1B
Flat Top American Twist Hybrid BP	Medium Sized BP Pens	Bear Tooth Woods	2	Flat Top Pen/Pencil	1B
Flat Top Screw Cap RB & FP	Medium Sized RB & FP Pens	Bear Tooth Woods	3	Flat Top Round Top FP/RB	2B
Hybrid Cigar Twist BP	Large Sized BP Pens	Bear Tooth Woods	2	Cigar Pen/Pencil	11A or 19B
Hymark Marking Pen	Tools & Utility Items	Bear Tooth Woods	3	Hymark	44A
Nevus	Medium Sized BP Pens	Bear Tooth Woods	2	Nevus	x
Pensar	Ornate Medium Sized BP Pens	Bear Tooth Woods	2	Pensar	20A
Perfect Fit Convertable BP & Pencil	Medium Sized BP Pens & Medium Sized Pencils	Bear Tooth Woods	2	Perfect Fit	14B
Razor - Mach 3	Shaving Accessories	Bear Tooth Woods	Other	Razor Kit	28A
Reinhart Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Reinhart Baron Sedona FP/RB	19A
Reinhart Twist Cap BP	Large Sized BP Pens	Bear Tooth Woods	2	Reinhart Ballpoint	19A
Retro Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	Perfect Fit	9A
Round Top 7mm Euro Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	Slim Streamlined Slim Pen & Razor Kit	10A

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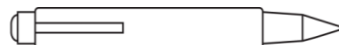
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modifying tube length.



Typical Mandrel Diameter
Sizes
A - .247 Dia. B - .291 Dia.



Beartooth Kit Description	Category & Size	Kit Supplier	Kit Style	Beartooth Replacement Tubes	Beartooth Bushing Set
Round Top 8mm Euro Screw Cap RB & FP	Medium Sized RB & FP Pens	Bear Tooth Woods	3	Flat Top Round Top FP/RB	8B
Round Top 8mm Euro Twist .7mm Pencil	Medium Sized Pencils	Bear Tooth Woods	2	New Series Round Top (8mm Euro) Pen/Pencil	3B
Round Top 8mm Euro Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	New Series Round Top (8mm Euro) Pen/Pencil	3B
Rubber Grip Click BP	Medium Sized BP Pens	Bear Tooth Woods	2	Rubber Grip Slim Streamlined Slim Pen	14A
Sedona Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Reinhart Baron Sedona FP/RB	19A
Sierra Button Click .7mm Pencil	Medium Sized Single Tube Pencils	Bear Tooth Woods	1	Sierra Button Click PENCIL	20A
Sierra Button Click BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Sierra Button Click Pen	20A
Sierra Vista & Circuit Board Twist BP	Large Sized Single Tube BP Pens	Bear Tooth Woods	1	Sierra Sierra Vista Elegant Sierra Virage Pen	50A
Sierra Twist BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Sierra Sierra Vista Elegant Sierra Virage Pen	20A
Sketch Pencil	Extra Large Sized Pencils	Bear Tooth Woods	1	Sketch Pencil	39A
Slimline Click Pencil	Slim Sized Pencils	Bear Tooth Woods	2	Pocket Stylus Slim Pencil	1A
Slimline Deco/Greek Key Click Pencil	Slim Sized Pencils	Bear Tooth Woods	2	Pocket Stylus Slim Pencil	1A
Slimline Deco/Greek Key Twist BP	Slim Sized BP Pens	Bear Tooth Woods	2	Slim Streamlined Slim Pen	1A
Slimline Twist BP	Slim Sized BP Pens	Bear Tooth Woods	2	Slim Streamlined Slim Pen	1A
Streamline 7mm Round Top Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	Streamlined 7mm Round Top	18A
Streamline Round Top Screw Cap RB & FP	Medium Sized RB & FP Pens	Bear Tooth Woods	3	Flat Top Round Top FP/RB	8B
Streamline Slim or Rubber Grip Twist BP	Medium Sized BP Pens	Bear Tooth Woods	2	Slim Streamlined Slim Pen	14A
Tetra Twist Stylus BP	Medium Sized BP Pens & Stylus Items	Bear Tooth Woods	2	Tetra Stylus	45A
Triton Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Triton FP/RB	30A
Triton Twist Cap BP	Large Sized BP Pens	Bear Tooth Woods	2	Triton Ballpoint Pen	31A
Ultra Cigar Twist BP	Large Sized BP Pens	Bear Tooth Woods	2	Cigar Pen/Pencil	11A or 19B
Vail Screw Cap RB & FP	Large Sized RB & FP Pens	Bear Tooth Woods	3	Vail FP/RB	VAIL
Virage Screw Cap RB & FP	Medium Sized RB & FP Pens	Bear Tooth Woods	3	Virage FP/RB	38A
Virage Twist BP	Medium Sized Single Tube BP Pens	Bear Tooth Woods	1	Sierra Sierra Vista Elegant Sierra Virage Pen	32A
Woodworkers Click Pencil	Large Sized Single Tube Pencils	Bear Tooth Woods	2	Woodworker's Pencil	40A

Averaged Bushing Diameter Size was used to determine Category Sizing:

Slim = (.301 - .400) Dia, Medium = (.401 - .500) Dia, Large = (.501 - .600) Dia, Extra Large = (.601 - .700) Dia.

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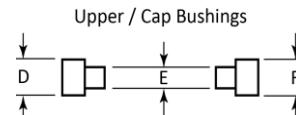
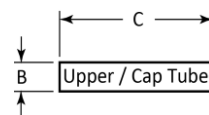
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A Drill Dia.



All Tolerances for:

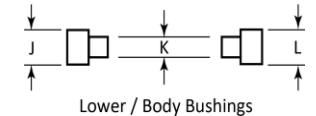
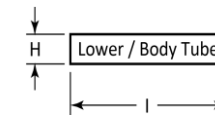
2 Place Dims is +/- .01 & 3 Place Dims is +/- .003



Use this chart with discretion, it should only be used as a reference guide.



G Drill Dia.



Beartooth Kit Description	Upper / Cap Tube			Upper / Cap Bushings			Lower / Body Tube			Lower / Body Bushing		
	A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Atrax Twist Cap BP	12.5mm or 0.492	0.483	1.90	0.567	0.460	0.567	10.5mm or 13/32"	0.400	2.33	0.481	0.380	0.481
Atrax Screw Cap RB & FP	12.5mm or 0.492	0.483	1.90	0.567	0.460	0.567	10.5mm or 13/32"	0.400	2.19	0.513	0.380	0.481
Baron Screw Cap RB & FP	15/32"	0.450	1.81	0.535	0.429	0.535	10 mm or 25/64"	0.385	2.09	0.482	0.357	0.482
Bowtie Cigar Twist BP	10 mm or 25/64"	0.385	1.91	0.475	0.357	0.554	10 mm or 25/64"	0.385	2.20	0.456	0.357	0.456
Bullet Cartridge Click Pen	10 mm or 25/64"	0.385	2.09	0.466	0.357	0.466	x	x	x	x	x	x
Bullet Cartridge Twist Pen	10 mm or 25/64"	0.385	2.09	0.466	0.357	0.466	x	x	x	x	x	x
Cambridge / Hybrid Screw Cap RB & FP	33/64"	0.510	1.69	0.590	0.494	0.590	31/64"	0.470	1.97	0.536	0.450	0.536
Carbara Twist BP	3/8" or 'V'	0.368	2.84	0.510	0.342	0.452	x	x	x	x	x	x
Churchill Screw Cap RB & FP	33/64"	0.510	1.69	0.590	0.494	0.590	31/64"	0.470	1.97	0.536	0.450	0.536
Cigar .5mm Pencil	10 mm or 25/64"	0.385	1.91	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.06	0.530	0.357	0.459
Cigar Twist BP	10 mm or 25/64"	0.385	1.91	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.09	0.530	0.357	0.459
EL Grande Screw Cap RB & FP	33/64"	0.510	1.69	0.590	0.494	0.590	31/64"	0.470	1.97	0.536	0.450	0.536
EL Grande Twist Cap BP & Pencil	33/64"	0.510	1.69	0.590	0.494	0.590	31/64"	0.470	1.97	0.536	0.450	0.536
Electra Screw Cap RB	x	x	x	x	x	x	10.5mm or 13/32"	0.405	2.81	0.512	0.380	0.481
Elegant Beauty Sierra Click BP	27/64"	0.410	1.89	0.474	0.381	0.474	x	x	x	x	x	x
Elegant Beauty Sierra Twist BP	27/64"	0.410	2.21	0.474	0.381	0.474	x	x	x	x	x	x
Flat Top .7mm Pencil	8mm or 'O'	0.311	2.01	0.485	0.286	0.485	8mm or 'O'	0.311	2.01	0.485	0.286	0.388
Flat Top American Twist BP	8mm or 'O'	0.311	2.01	0.485	0.286	0.485	8mm or 'O'	0.311	2.01	0.485	0.286	0.388
Flat Top American Twist Hybrid BP	8mm or 'O'	0.311	2.01	0.485	0.286	0.485	8mm or 'O'	0.311	2.01	0.485	0.286	0.388
Flat Top Screw Cap RB & FP	3/8" or 'V'	0.368	1.98	0.488	0.342	0.488	3/8" or 'V'	0.368	1.98	0.452	0.342	0.452
Hybrid Cigar Twist BP	10 mm or 25/64"	0.385	1.91	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.09	0.530	0.357	0.459
Hymark Marking Pen	15mm	0.580	1.67	0.659	0.561	0.659	14mm	0.538	3.35	0.654	0.519	0.654
Nevus	8mm or 'O' & 11/32" or 'S'	0.311 & 0.338		x	x	x	#11 & #29			x	x	x
Pensar	27/64"	0.410	0.96	0.474	0.381	0.474	27/64"	0.410	0.96	0.474	0.381	0.474
Perfect Fit Convertable BP & Pencil	11/32" or 'S'	0.338	2.13	0.462	0.316	0.542	8mm or 'O'	0.311	2.36	0.467	0.286	0.367
Razor - Mach 3	7mm or 'J'	0.268	2.56	0.545	x	0.545	x	x	x	x	x	x
Reinhart Screw Cap RB & FP	15/32"	0.450	1.81	0.535	0.429	0.535	10 mm or 25/64"	0.385	2.09	0.482	0.357	0.482
Reinhart Twist Cap BP	15/32"	0.450	1.81	0.535	0.429	0.535	10 mm or 25/64"	0.385	2.33	0.482	0.357	0.482
Retro Twist BP	11/32" or 'S'	0.338	1.18	0.413	0.316	0.413	11/32" or 'S'	0.338	1.48	0.413	0.316	0.413
Round Top 7mm Euro Twist BP	7mm or 'J'	0.268	2.09	0.406	x	0.406	7mm or 'J'	0.268	2.37	0.406	x	0.358

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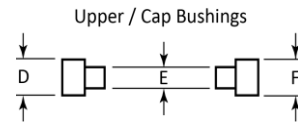
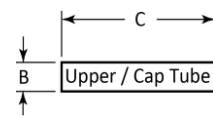
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A Drill Dia.



All Tolerances for:

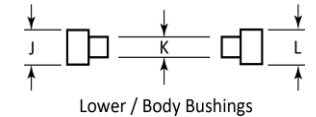
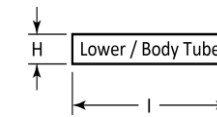
2 Place Dims is +/- .01 & 3 Place Dims is +/- .003



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G Drill Dia.



Beartooth Kit Description	Upper / Cap Tube			Upper / Cap Bushings			Lower / Body Tube			Lower / Body Bushing		
	A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Round Top 8mm Euro Screw Cap RB & FP	3/8" or 'V'	0.368	1.98	0.440	0.342	0.525	3/8" or 'V'	0.368	1.98	0.449	0.342	0.449
Round Top 8mm Euro Twist .7mm Pencil	8mm or 'O'	0.311	2.01	0.410	0.286	.550 / .471	8mm or 'O'	0.311	2.37	0.471	0.286	0.366
Round Top 8mm Euro Twist BP	8mm or 'O'	0.311	2.01	0.410	0.286	.550 / .471	8mm or 'O'	0.311	2.37	0.471	0.286	0.366
Rubber Grip Click BP	7mm or 'J'	0.268	2.09	0.344	x	0.416	7mm or 'J'	0.268	2.09	x	x	x
Sedona Screw Cap RB & FP	15/32"	0.450	1.81	0.535	0.429	0.535	10 mm or 25/64"	0.385	2.09	0.482	0.357	0.482
Sierra Button Click .7mm Pencil	27/64"	0.410	1.76	0.474	0.381	0.474	x	x	x	x	x	x
Sierra Button Click BP	27/64"	0.410	2.42	0.474	0.381	0.474	x	x	x	x	x	x
Sierra Vista & Circuit Board Twist BP	x	0.410	2.21	0.551	0.381	0.523	x	x	x	x	x	x
Sierra Twist BP	27/64"	0.410	2.21	0.474	0.381	0.474	x	x	x	x	x	x
Sketch Pencil	15/32"	0.450			0.429		x	x	x	x	x	x
Slimline Click Pencil	7mm or 'J'	0.268	1.86	0.331	x	0.331	7mm or 'J'	0.268	1.86	0.331	x	0.331
Slimline Deco/Greek Key Click Pencil	7mm or 'J'	0.268	1.86	0.331	x	0.331	7mm or 'J'	0.268	1.86	0.331	x	0.331
Slimline Deco/Greek Key Twist BP	7mm or 'J'	0.268	2.09	0.331	x	0.331	7mm or 'J'	0.268	2.09	0.331	x	0.331
Slimline Twist BP	7mm or 'J'	0.268	2.09	0.331	x	0.331	7mm or 'J'	0.268	2.09	0.331	x	0.331
Streamline 7mm Round Top Twist BP	7mm or 'J'	0.268	2.09	0.411	x	0.415	7mm or 'J'	0.268	2.21	0.418	x	0.332
Streamline Round Top Screw Cap RB & FP	3/8" or 'V'	0.368	1.98	0.440	0.342	0.525	3/8" or 'V'	0.368	1.98	0.449	0.342	0.449
Streamline Slim or Rubber Grip Twist BP	7mm or 'J'	0.268	2.09	0.344	x	0.416	7mm or 'J'	0.268	2.09	0.416	x	0.334
Tetra Twist Stylus BP	8mm or 'O'	0.311	2.19	0.413	0.286	0.413	8mm or 'O'	0.311	2.24	0.413	0.286	0.413
Triton Screw Cap RB & FP	12.5mm or 0.492	0.483	1.90	0.567	0.460	0.567	10.5mm or 13/32"	0.400	1.85	0.513	0.380	0.481
Triton Twist Cap BP	12.5mm or 0.492	0.483	1.90	0.567	0.460	0.567	10.5mm or 13/32"	0.400	2.33	0.481	0.380	0.481
Ultra Cigar Twist BP	10 mm or 25/64"	0.385	1.91	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.09	0.530	0.357	0.459
Vail Screw Cap RB & FP	12.5mm or 0.492	0.483	1.90	0.590	0.460	0.590	10.5mm or 13/32"	0.400	2.09	0.512	0.380	0.480
Virage Screw Cap RB & FP	15/32"	0.450			0.429		10 mm or 25/64"	0.385			0.357	
Virage Twist BP	27/64"	0.410	2.21	0.474	0.381	0.474	x	x	x	x	x	x
Woodworkers Click Pencil	29/64"		1.65				29/64"		1.65			

Averaged Bushing Diameter Size was used to determine Category Sizing:

Slim = (.301 - .400) Dia, Medium = (.401 - .500) Dia, Large = (.501 - .600) Dia, Extra Large = (.601 - .700) Dia.