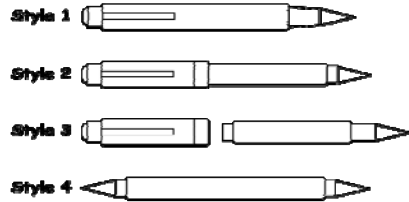
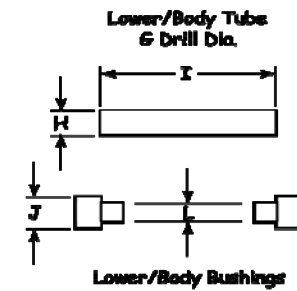
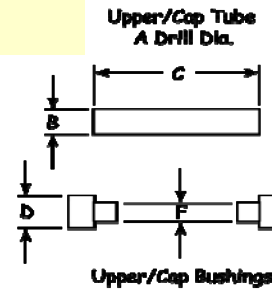


# Only Pen Kits with Missing Dimensions - Bushings and Tubes

W Racinowski WRACINOWSKI at WI dot RR dot COM Revised 11-10-09



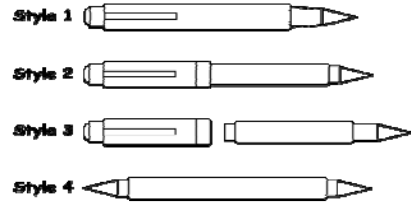
Using 3 place decimals please update this spreadsheet to provide "Caliper Measured" dimensions for yellow cells. Update fractional lengths to 2 place decimals only.



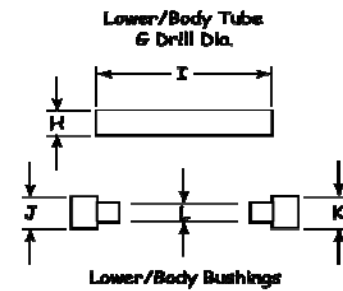
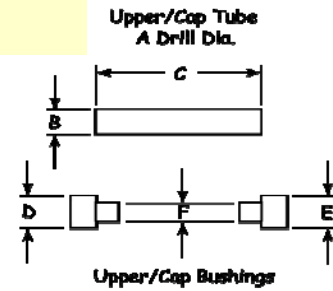
Pen #	Pen Kit Supplier	Pen Kit Description Grouped by Styling	Suppliers Bushing Set	Pen Style	Upper / Cap Tube			Upper / Cap Bushings			Lower / Body Tube			Lower / Body Bushing		
					A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
1	Penn State	Majestic Squire	PKMAJSQBU	1	3/8" or 'V'	0.368		0.495	0.495	0.342	x	x	x	x	x	x
2	Craft Supply USA	Broker Twist BP	050-4446	1	'U'	0.358		0.425	0.425		x	x	x	x	x	x
3	Penn State	CEO Twist BP	PKCEOBU	1	'U'	0.358	3.00				x	x	x	x	x	x
4	Woodcraft	Wall Street (I) Twist BP (Old)	140101	1	'U'	0.358	3.00	0.425	0.425		x	x	x	x	x	x
5	Craft Supply USA	Apprentice Cigar BP	486-2003	2	10 mm or 25/64"	0.385		0.475	0.575	0.357	10 mm or 25/64"	0.385		0.530	0.459	0.357
6	Craft Supply USA	Cigar BP	155-4101	2	10 mm or 25/64"	0.385		0.475	0.575	0.357	10 mm or 25/64"	0.385		0.530	0.459	0.357
7	Penn State	Big Ben Cigar BP	PKBIGBU	2	10 mm or 25/64"	0.385	1-15/16"	0.475	0.575	0.357	10 mm or 25/64"	0.385	2-1/16"	0.530	0.459	0.357
8	Penn State	Big Ben Cigar FP & RB	PKBIGBU	3	10 mm or 25/64"	0.385	2"	0.475	0.575	0.357	10 mm or 25/64"	0.385	2-3/8"	0.530	0.459	0.357
9	Rockler	Cigar BP	24204	2	10 mm or 25/64"	0.385				0.357	10 mm or 25/64"	0.385		0.530	0.459	0.357
10	Penn State	Big Ben Cigar .5mm Pencil	PKBIGBU	2	10 mm or 25/64"	0.385	1-15/16"	0.475	0.575	0.357	10 mm or 25/64"	0.385	2.06	0.530	0.459	0.357
11	Rockler	Cigar .5mm Pencil	24204	2	10 mm or 25/64"	0.385				0.357	10 mm or 25/64"	0.385				0.357
12	PennState	Apollo Elite RB & FP	PKAPRBU	3	9/16"		1.69	0.625	0.625		12.5mm or 0.492	0.483	2-1/8"	0.536	0.536	0.460
13	Craft Supply USA	Ligero RB	050-4055	3	17/32"			0.590	0.590		31/64"	0.470		0.536	0.536	0.450
14	PennState	Olympian Elite RB	PKOLBU	3	33/64"	0.510	1.69	0.590	0.590	0.494	31/64"	0.470	2"	0.536	0.536	0.450
15	PennState	Olympian Elite 2 RB	PKOL2BU	3	33/64"	0.510	1.69	0.590	0.655	0.494	31/64"	0.470	2"	0.536	0.536	0.450
16	Rockler	Jr Gentleman II RB	23571	3	31/64"	0.470				0.450	10.5mm or 13/32"	0.394				0.380
17	Craft Supply USA	Imperial RB & FP	050-4198	3	14mm or 35/64"	0.539		0.616	0.616	0.510	15/32"	0.450		0.552	0.552	0.429
18	Craft Supply USA	Lotus RB & FP	050-4198	3	14mm or 35/64"	0.539		0.616	0.616	0.510	15/32"	0.450		0.552	0.552	0.429
19	Arizona Silhouette	El Toro FP	50A	3	14mm or 35/64"	0.539		0.621	0.667	0.510	31/64"	0.472		0.609	0.550	0.447
20	Craft Supply USA	Panache	050-4011	3	12.5mm or 0.492	0.483		0.670	0.570	0.460	10.5mm or 13/32"	0.400		0.570	0.788	0.378
21	Rockler	Panache	22907	3	12.5mm or 0.492	0.483		0.670	0.570	0.460	10.5mm or 13/32"	0.400		0.570	0.788	0.378
22	Arizona Silhouette	Perfect Fit Convertable BP	14B	2	11/32" or 'S'	0.338				0.316	'O' or 8mm	0.311				0.286
23	Arizona Silhouette	Perfect Fit Convertible .7mm Pencil	14B	2	11/32" or 'S'	0.338				0.316	'O' or 8mm	0.311				0.286
24	Berea	Perfect Fit Convertable BP	14B	2	11/32" or 'S'	0.338				0.316	'O' or 8mm	0.311				0.286
25	Berea	Perfect Fit Convertible .7mm Pencil	14B	2	11/32" or 'S'	0.338				0.316	'O' or 8mm	0.311				0.286
26	Arizona Silhouette	Flat Top Click Push Cap BP	4B	2	11mm	0.415				0.374	'O' or 8mm	0.311				0.286
27	Arizona Silhouette	Flat Top American Twist BP	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
28	Arizona Silhouette	Flat Top American Twist .7mm Pencil	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
29	Arizona Silhouette	Flat Top American Elite Twist BP	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
30	Arizona Silhouette	Elegant American Twist Cap BP	15A or 17B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286

# Only Pen Kits with Missing Dimensions - Bushings and Tubes

W Racinowski WRACINOWSKI at WI dot RR dot COM Revised 11-10-09



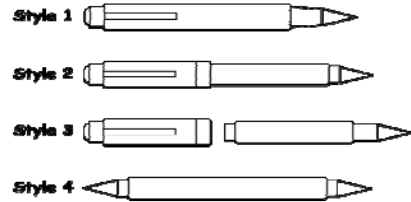
Using 3 place decimals please update this spreadsheet to provide "Caliper Measured" dimensions for yellow cells. Update fractional lengths to 2 place decimals only.



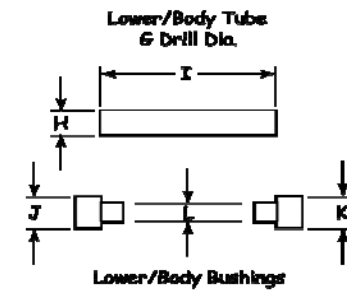
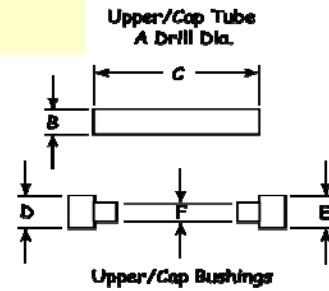
Pen #	Pen Kit Supplier	Pen Kit Description Grouped by Styling	Suppliers Bushing Set	Pen Style	Upper / Cap Tube			Upper / Cap Bushings			Lower / Body Tube			Lower / Body Bushing		
					A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
31	Berea	Elegant American Twist Cap BP	15A or 17B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
32	Berea	Flat Top American Double Twist Hybrid BP	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
33	Berea	Flat Top Click Push Cap BP	4B	2	11mm	0.415				0.374	'O' or 8mm	0.311				0.286
34	Berea	Flat Top Twist BP	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
35	Berea	Flat Top Twist .7mm Pencil	1B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
36	Craft Supply USA	Americana Twist BP	955-0104	2	'O' or 8mm	0.311		0.487	529 / .397	0.286	'O' or 8mm	0.311		0.397	0.397	0.286
37	Craft Supply USA	Americana Twist .7mm Pencil	155-5502	2	11/32" or 'S'	0.338		0.488	0.488	0.316	11/32" or 'S'	0.338		0.488	0.488	0.316
38	Craft Supply USA	Apprentice Americana Twist BP	486-2005	2	'O' or 8mm	0.311		0.492	492 / .401	0.286	'O' or 8mm	0.311		0.401	0.401	0.286
39	PennState	Classic Twist BP	PKPARKBU	2	'O' or 8mm	0.311	2.06	0.492	0.492	0.286	'O' or 8mm	0.311	2.06	0.401	0.401	0.286
40	PennState	Classic Click BP	PKPARKBU2	2	11mm	0.415	2-7/64"			0.374	'O' or 8mm	0.311	1-25/32"			0.286
41	Arizona Silhouette	Streamline American Flat Top Screw Cap RB & FP	2B	3	3/8" or 'V'	0.368				0.342	3/8" or 'V'	0.368				0.342
42	Arizona Silhouette	Flat Top Screw Cap RB & FP	2B	3	3/8" or 'V'	0.368				0.342	3/8" or 'V'	0.368				0.342
43	Berea	Flat Top Snap Cap RB & FP	2B	3	3/8" or 'V'	0.368				0.342	3/8" or 'V'	0.368				0.342
44	Berea	Flat Top Screw Cap RB & FP	1B	3	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
45	Berea	Flat Top American Screw Cap RB & FP	2B	3	3/8" or 'V'	0.368				0.342	3/8" or 'V'	0.368				0.342
46	Berea	Flat Top Series 2000 Screw Cap RB & FP	2B	3	3/8" or 'V'	0.368				0.342	3/8" or 'V'	0.368				0.342
47	PennState	Classic & Elite RB & FP	PKPAR10B2	3	10 mm or 25/64"	0.385	1-13/16"	0.492	0.492	0.357	10 mm or 25/64"	0.385	2-9/32"	0.401	0.401	0.357
48	Arizona Silhouette	Round Top European Twist Cap .7mm Pencil	3B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
49	Arizona Silhouette	Round Top European Twist BP	3B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
50	Arizona Silhouette	7mm Round Top European Twist BP	10A	2	7mm or 'J'	0.268				x	7mm or 'J'	0.268				x
51	Arizona Silhouette	Streamline 7mm Round Top BP	18A	2	7mm or 'J'	0.268				x	7mm or 'J'	0.268				x
52	Berea	Round Top European Twist Cap .7mm Pencil	3B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
53	Berea	Round Top European Twist BP	3B	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
54	Craft Supply USA	Apprentice European BP	486-2006	2	7mm or 'J'	0.268		0.406	512 / .406	x	7mm or 'J'	0.268		0.406	0.360	x
55	Craft Supply USA	European / Deco European BP	155-1100	2	7mm or 'J'	0.268		0.406	529 / .425	x	7mm or 'J'	0.268		0.425	0.360	x
56	Craft Supply USA	European .7mm Pencil	155-0045	2	11/32" or 'S'	0.338		0.410	529 / .397	0.316	11/32" or 'S'	0.338		0.397	0.397	0.316
57	PennState	Designer Twist BP	PKMONTBU	2	7mm or 'J'	0.268	2.13			x	7mm or 'J'	0.268	2.38			x
58	PennState	Designer Elite RB & FP	PKMONTBU3	3	PKMONTSD3		2-7/64"				PKMONTSD3		2-61/64"			
59	Berea	Retro Twist Cap BP	9A	2	11/32" or 'S'	0.338				0.316	11/32" or 'S'	0.338				0.316
60	PennState	Executive Twist BP & .7mm Pencil	PKEXECBU	1	3/8" or 'V'	0.368	2.88			0.342	x	x	x	x	x	x
61	Craft Supply USA	Toolbox 5.6mm Pencil	050-4498	2	11mm	0.415		0.512	0.512	0.374	11mm	0.415		0.512	0.512	0.374
62	Craft Supply USA	Artist Sketch 5.6mm Pencil	050-5006	1	15/32"	0.450		0.580	0.557	0.429	x	x	x	x	x	x
63	PennState	Deluxe Pen & Sketch 5.6mm Pencil	PKSPCL2BU	1	11mm	0.415	2-11/16"	0.576	0.500	0.374	x	x	x	x	x	x
64	PennState	Workshop Sketch 5.6mm Pencil	PKSPCLBU	2	11mm	0.415		0.512	0.512	0.374	11mm	0.415		0.512	0.512	0.374
65	PennState	Mini Sketch 3mm Pencil	PKSPCL3BU	1	'O' or 8mm	0.311	3-1/2"	0.435	0.435	0.286	x	x	x	x	x	x
66	Rockler	Toolbox 5.6mm Pencil	26862	2	11mm	0.415				0.374	11mm	0.415				0.429
67	Rockler	Woodworkers 5.6mm Pencil	26397	1	10 mm or 25/64"	0.385				0.357	10 mm or 25/64"	0.385				0.357

# Only Pen Kits with Missing Dimensions - Bushings and Tubes

W Racinowski WRACINOWSKI at WI dot RR dot COM Revised 11-10-09



Using 3 place decimals please update this spreadsheet to provide "Caliper Measured" dimensions for yellow cells. Update fractional lengths to 2 place decimals only.



Pen #	Pen Kit Supplier	Pen Kit Description Grouped by Styling	Suppliers Bushing Set	Pen Style	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.
68	Arizona Silhouette	Button Click BP	5A	2	11/32" or 'S'	0.338				0.316	11/32" or 'S'	0.338				0.316
69	Berea	Click BP	5A	2	11/32" or 'S'	0.338				0.316	11/32" or 'S'	0.338				0.316
70	Penn State	Click BP	PKBOWBU	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
71	Penn State	Slimline Pro Click BP & .7mm Pencil	PKPENXXBU	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
72	Craft Supply USA	Click BP	155-4503	2	'O' or 8mm	0.311		0.373	0.373	0.286	'O' or 8mm	0.311		0.373	0.373	0.286
73	Craft Supply USA	Click .5mm Pencil	155-4503	2	'O' or 8mm	0.311		0.373	0.373	0.286	'O' or 8mm	0.311		0.373	0.373	0.286
74	Woodcraft	Click BP	127767	2	'O' or 8mm	0.311				0.286	'O' or 8mm	0.311				0.286
75	Craft Supply USA	Clicker BP	050-4024	1	3/8" or 'V'	0.368		0.444	0.444	0.342	3/8" or 'V'	0.368		0.444	0.444	0.342
76	Craft Supply USA	Clicker .7mm Pencil	050-4024	1	3/8" or 'V'	0.368		0.444	0.444	0.342	3/8" or 'V'	0.368		0.444	0.444	0.342
77	Craft Supply USA	Americana RB	955-0104	2	'O' or 8mm	0.311		0.487	529 / .397	0.286	'O' or 8mm	0.311		0.397	0.397	0.286
78	Craft Supply USA	Americana FP	955-0502	3	10 mm or 25/64"	0.385		0.490	0.490	0.357	10 mm or 25/64"	0.385		0.490	0.456	0.357
79	Craft Supply USA	Artisan RB & FP	155-5111	3	10 mm or 25/64"	0.385		0.450	0.450	0.357	10 mm or 25/64"	0.385		0.450	0.450	0.357
80	Craft Supply USA	Executive RB & FP	155-5102	3	27/64"	0.410		0.480	0.507	0.381	27/64"	0.410		0.478	0.466	0.381
81	Arizona Silhouette	Biscayne Flat Top BP	AZSB-14A	2	7mm or 'J'	0.268		0.347	0.434	x	7mm or 'J'	0.268		0.434	0.331	x
82	Arizona Silhouette	Streamline 7mm Flat Top BP	14A	2	7mm or 'J'	0.268				x	7mm or 'J'	0.268				x
83	Berea	Streamline BP	14A	2	7mm or 'J'	0.268				x	7mm or 'J'	0.268				x
84	Craft Supply USA	Apprentice Roadster BP	486-2015	2	7mm or 'J'	0.268		0.348	0.425	x	7mm or 'J'	0.268		0.425	0.332	x
85	Arizona Silhouette	Elegant American BP	15A or 17B	2	'O' or 8mm	0.311		0.400	0.470	0.286	'O' or 8mm	0.311		0.470	0.360	0.286