

**Penn State Kit Bushing and Tube References**

**Revised Jan. 18, 2014**

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



Style 1



Some Kits may require modifying tube length.

Style 2



style 3



Typical Mandrel Diameter Sizes

A - .247 Dia. B - .291 Dia.



Penn State Kit Description	Category & Size	Kit Supplier	Kit Style	Penn State Replacement Tubes	Penn State Bushing Set
2 Way Tech BP	Specialty Style Pens	Penn State	2	PKT38-8	PK2WAYBU
3 in 1 Screw Driver Twist BP	Tools & Utility Items	Penn State	3	PKSDPENTU	PKSDPENBU
30 Caliber Bolt Action BP	Bullet Style BP Pens	Penn State	1	PKCP3000TU	PKCP3000BU
30 Caliber Bolt Action BP - Mini	Bullet Style BP Pens	Penn State	1	PKCP8200TU	PKCP3000BU
30 Caliber Bullet Click BP & Pencil	Bullet Style BP Pens & Bullet Style BP Pencils	Penn State	2	PKCP2400TU	PKCP2400BU
30 Caliber Bullet Twist BP	Bullet Style BP Pens	Penn State	2	PKCP3000TU	PKCP3000BU
30 Caliber Bullet Twist BP - Mini	Bullet Style BP Pens	Penn State	1	PKT7-10	PKMBUSH3
50 Caliber W/ Cross Refill Twist BP	Extra Large Bullet Style BP Pens	Penn State	1	PK50CALTU	PK50CALBU
50 Caliber W/ Parker Refill Twist BP	Extra Large Bullet Style BP Pens	Penn State	1	PKT8-8	PK50CALPBU
Apex SE Click BP	Large Sized Single Tube BP Pens	Penn State	1	PKVPENTU	PKVPENBU
Apollo Elite Screw Cap RB & FP	Extra Large Sized RB & FP Pens	Penn State	3	PKAPTU	PKAPRBU
Apollo Infinity Screw Cap RB & FP	Extra Large Sized RB & FP Pens	Penn State	3	PKAPTU	PKAPR2BU
Big Ben Cigar .5mm Pencil	Large Sized Pencils	Penn State	2	PKBIGTU	PKBIGBU
Big Ben Cigar Click BP	Large Sized BP Pens	Penn State	2	PKBIGTU	PKBIGBU
Big Ben Cigar Click Pencil	Large Sized Pencils	Penn State	2	PKBIGTU	PKBIGBU
Big Ben Cigar Screw Cap FP & RB	Large Sized RB & FP Pens	Penn State	3	PKT10-6	PKBIGBU
Big Ben Cigar Twist BP	Large Sized BP Pens	Penn State	2	PKBIGTU	PKBIGBU
Bolt Action Tec-Pen BP	Bullet Style BP Pens	Penn State	1	PKTPENTU	PKTPENBU
Breast Cancer Awareness Mini Twist BP	Specialty Style Pens	Penn State	2	PBCMTU	PKBCMBU
Breast Cancer Awareness Twist BP	Specialty Style Pens	Penn State	2	PKBCPTU	PKBCPBU
Broadwell Art Deco BP	Ornate Medium Sized Single Tube BP Pens	Penn State	1	PKMAJSQTU	PKMAJSQBU
Broadwell Art Deco RB & FP	Ornate Large Sized RB & FP Pens	Penn State	3	PKARTTUA	PKARTBU
Broadwell Nouveau Sceptre Screw Cap RB & FP	Ornate Large Sized RB & FP Pens	Penn State	3	PKDBTUA	PKDBBUA
Broadwell Nouveau Sceptre Twist BP	Ornate Medium Sized Single Tube BP Pens	Penn State	2	PKDBTPTU	PKMAJSQBU
Capri Compact FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Capri Compact RB	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Celtic Click BP	Large Sized Single Tube BP Pens	Penn State	1	PKT38-8	PKGAFBU
CEO Twist BP	Medium Sized Single Tube BP Pens	Penn State	1	x	PKCEOBU
Chalk Holder	Specialty Style Pens	Penn State	1	PKT125-6	PKCKBU
Civil War Pen	Bullet Style BP Pens	Penn State	1	PKCWENTU	PKCWENBU
Classic Click BP	Medium Sized BP Pens	Penn State	2	PKSPCL2TU & PKT8-8	PKPARKBU2
Classic & Elite Screw Cap RB & FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Classic Elite Petite Snap Cap Fountain Flow RB	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Classic Elite Screw Cap RB & FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Classic Elite Snap Cap RB & FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2
Classic Screw Cap RB & FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PKPAR10B2

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Style 1



Some Kits may require modifying tube length.

Style 2



style 3



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

Penn State Kit Description	Category & Size	Kit Supplier	Kit Style	Penn State Replacement Tubes	Penn State Bushing Set
Classic Twist .7mm Pencil	Medium Sized Pencils	Penn State	2	PKT8-8	PKPARKBU3
Classic Twist BP	Medium Sized BP Pens	Penn State	2	PKT8-8	PKPARKBU
Comfort Twist BP & Pencil	Medium Sized BP Pens and Slim Sized Pencils	Penn State	2	PKTUBE7	PKCFBUSH
Compson Click BP	Medium Sized BP Pens	Penn State	1	PKJPENTU	PKJPENBU
Concava Twist BP	Large Sized BP Pens	Penn State	2	PKCONTU	PKCONBU
Crown Jewel Twist BP	Ornate Medium Sized Single Tube BP Pens	Penn State	1	PKRYLTU	PKNICKBU
Curvado Twist BP	Large Sized BP Pens	Penn State	2	PKT8-8	PKSPENBU
Deluxe Pen & Sketch 5.6mm Pencil	Workshop Style Pencils	Penn State	1	PKSPCL2TU	PKSPCL2BU
Designer NT Twist BP	Medium Sized BP Pens	Penn State	2	PKT7-10	PKMONT2BU
Designer NT Twist BP - Premium	Medium Sized BP Pens	Penn State	2	PKT8-8	PKMONTPRBU
Designer NT Twist Pencil	Medium Sized Pencils	Penn State	2	PKT8-8	PKMONT3BU
Designer Twist BP	Medium Sized BP Pens	Penn State	2	MONTTUBE5	PKMONTBUY
Designer Twist BP - Mini	Medium Sized BP Pens	Penn State	2	PKT7-10	PKMONT2BU & PKMBUSH3
Diamond File Pen	Specialty Style Pens	Penn State	2	PKT7-10	PKMBUSH3
Diva Charm Twist BP	Ornate Medium Sized Single Tube BP Pens	Penn State	1	PKCHPENTU	PKCHPENBU
Duchess Twist BP	Medium Sized Single Tube BP Pens	Penn State	2	PKDUTU	PKCFBUSH
Duchess Twist BP - Mini	Medium Sized Single Tube BP Pens	Penn State	2	PKDUNTU	PKCFBUSH
Executive Twist BP & .7mm Pencil	Medium Sized BP Pens & Medium Sized Pencils	Penn State	1	PKT38-8	PKEXECBU
Funline Comfort Pencil	Medium Sized Pencils	Penn State	2	PKTUBE7	PKCFBUSH
Funline Comfort Twist BP	Medium Sized BP Pens	Penn State	2	PKTUBE7	PKCFBUSH
Funline Designer Twist BP	Medium Sized BP Pens	Penn State	2	MONTTUBE5	PKMONTBUY
Funline Slimline Pencil	Slim Sized Pencils	Penn State	2	PKTUBE7	PKMBUSH3
Funline Slimline Twist BP	Slim Sized BP Pens	Penn State	2	PKTUBE7	PKMBUSH3
Gatsby Click .7mm Pencil	Medium Sized Single Tube Pencils	Penn State	1	PKGATU	PKGABU
Gatsby Click BP	Medium Sized Single Tube BP Pens	Penn State	1	PKGATU	PKGABU
Gatsby Grande Twist BP	Large Sized Single Tube BP Pens	Penn State	1	PKGAPENFTU	PKGAFBU
Gatsby Twist BP (V2)	Medium Sized Single Tube BP Pens	Penn State	1	PKGATU	PKGABU
Gemini .7mm Click Pencil	Medium Sized Single Tube Pencils	Penn State	1	PKT38-8	PKGEMBU
Gemini Click BP	Medium Sized Single Tube BP Pens	Penn State	1	PKT38-8	PKGEMBU
Graduate - Magnetic RB & FP	Extra Large Sized BP Pens	Penn State	3	PKGRAD2TU or PKMAJRRTU	PKGRAD2BU
Graduate Post Twist BP	Large Sized BP Pens	Penn State	2	PKGRAPTU	PKGRAPBU
Graduate Twist BP	Medium Sized BP Pens	Penn State	2	PKGRADTU	PKGRABU
Guardian Click BP	Extra Large Sized Single Tube BP Pens	Penn State	1	PKGDTU	PKGDPENBU
Guardian Jr Click BP	Extra Large Sized Single Tube BP Pens	Penn State	1	PKGDTU	PKGDJRBU
Guardian Snap Cap RB & FP	Extra Large Sized RB & FP Pens	Penn State	3	PKGDRBTU	PKGDRBBU
Knights Armor Twiat BP	Large Sized Single Tube BP Pens	Penn State	1	PKT38-8	PKMAJSQBU

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Style 1



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Style 2



style 3



Typical Mandrel Diameter Sizes

A - .247 Dia. B - .291 Dia.



Penn State Kit Description	Category & Size	Kit Supplier	Kit Style	Penn State Replacement Tubes	Penn State Bushing Set
Lady Designer Twist BP	Medium Sized BP Pens	Penn State	2	PKTUBE7	PKMONTLBU
Longwood 30 Caliber Twist BP	Bullet Style BP Pens	Penn State	1	PKCP3800TU	PKCP3000BU
Longwood Click BP	Medium Sized BP Pens	Penn State	2	PKT7-10	PKLONGBU
Longwood Click Pencil	Medium Sized Pencils	Penn State	2	PKT7-10	PKLONGBU
Magnum Bolt Action BP	Large Bullet Style BP Pens	Penn State	1	PKCP7000TU	PKCP7000BU
Magnum Bullet Cartridge Twist BP	Large Bullet Style BP Pens	Penn State	2	PKCP7000TU	PKCP7000BU
Majestic Jr Screw Cap RB	Large Style RB & FP	Penn State	3	PKGRAD2TU or PKMAJJRTU	PKMAJJRBU
Majestic Screw Cap RB & FP	Extra Large Style RB & FP	Penn State	3	PKMAJTU	PKMAJBU
Majestic Squire Twist BP	Medium Sized Single Tube BP Pens	Penn State	1	PKMAJSQTU	PKMAJSQBU
Metallo 7mm Twist BP	Slim Sized Single Tube BP Pens	Penn State	2	PKT7-10	PKMT7BU
Metallo 8mm Twist BP	Medium Sized Single Tube BP Pens	Penn State	2	PKT8-8	PKMT8BU
Mini Bullet Twist BP	Large Sized BP Pens	Penn State	2	PKT7-10	PKBULPENBU
Mini Click BP	Medium Sized Single Tube BP Pens	Penn State	1	PKT10-6	PKMINCLKBU
Olympian Elite Screw Cap RB	Extra Large Sized RB & FP Pens	Penn State	3	PKOLTU	PKOLBU
Olympian Elite 2 Screw Cap RB	Extra Large Sized RB & FP Pens	Penn State	3	PKOLTU	PKOL2BU
Over & Under Shotgun Shell RB & FP	Extra Large Bullet Style BP Pens	Penn State	3	PKCP6000TU	PKCP6000BU
Patrizio Europa Twist BP & Click Pencil	Medium Sized BP Pens & Medium Sized Pencils	Penn State	2	PKPATPENTU	PKPATDSBU
Patrizio Twist BP & Click Pencil	Medium Sized BP Pens & Medium Sized Pencils	Penn State	2	PKPATPENTU	PKPATPENBU
Polaris Click BP	Medium Sized Single Tube BP Pens & Pencils	Penn State	1	PKT38-8	PKPOLBU
Polaris Twist BP & .7mm Pencil	Medium Sized Single Tube BP Pens	Penn State	1	PKT38-8	PKPOLBU
Power Click BP & Pencil	Medium Sized BP Pens & Medium Sized Pencils	Penn State	2	PKPOWPENTU	PKPOWBU
Presimo Press Top RB & FP	Large Sized Single Tube BP Pens	Penn State	3	PKPT100TU	PKPT100BU
Princess Twist BP	Medium Sized BP Pens	Penn State	2	PKPRPENTU	PKPRPENBU
Razor - Mach 3	Shaving Accessories	Penn State	Other	PKT7-10	PKRAHANBU
Razor - Magnum Mach 3	Shaving Accessories	Penn State	Other	PKT7-10	PKCP7000BU
Razor - Majestic Mach 3	Shaving Accessories	Penn State	Other	PKT7-10	PKMAJSQBU
Rollester RB	Medium Sized Single Tube BP Pens	Penn State	3	PKT38-8	PKCHPENBU
Royal Crown Jewel Twist BP	Ornate Medium Sized Single Tube BP Pens	Penn State	1	PKRYLTU	PKNICKBU
Sculptured BP	Ornate Medium Sized BP Pens	Penn State	2	PKT8-8	PKSCBU
Shimmering Crystals Twist BP	Slim Sized BP Pens	Penn State	2	PKCTPENTU	PKCTPENBU
Shock Absorber Screw Cap BP	Specialty Style Pens	Penn State	3	PKSAPENTU	PKSAPENBU
Sketch 3mm Click Pencil - Mini	Workshop Style Pencils	Penn State	1	PKSPCL3TU	PKSPCL3BU
Sketch 5.6mm Click Pencil - Workshop	Workshop Style Pencils	Penn State	2	PKSPCLTU	PKSPCLBU
Slimline Click Pencil	Slim Sized Pencils	Penn State	2	PKTUBE7	PKMBUSH3
Slimline Pro Click BP & .7mm Pencil	Medium Sized BP Pens & Medium Sized Pencils	Penn State	2	PKPENXXTU	PKPENXXBU
Slimline Twist BP	Slim Sized BP Pens	Penn State	2	PKTUBE7	PKMBUSH3

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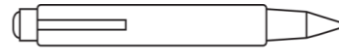
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style 3



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



Penn State Kit Description	Category & Size	Kit Supplier	Kit Style	Penn State Replacement Tubes	Penn State Bushing Set
Segmented Twist BP	Medium Sized BP Pens	Penn State	2	PKT7-10	PKSEGPENBU
Starlet Stem BP	Ornate Slim Sized BP Pens	Penn State	1	PKT7-10	PKMBUSH3
Spartan Click BP	Medium Sized BP Pens	Penn State	1	PKT38-8	PKMAJSQBU
Stratus Click BP	Medium Sized BP Pens	Penn State	1	PKCHPENTU	PKCHPENBU
Stylus - 3 in 1 Flip BP & Light	Stylus Items	Penn State	3	PKT125-6	PKCKBU
Stylus - Flip Click Cap BP V2	Stylus Items	Penn State	3	PKFLIP2TU	PKFPBU
Stylus Key Chain BP	Stylus Items	Penn State	1	PKT7-10	PKTS100BU
Stylus - Mini Telescoping BP	Stylus Items	Penn State	3	PKT7-10	PKMBUSH3
Stylus - Mini Touch W/ Plug	Stylus Items	Penn State	1	PKT7-10	PKMBUSH3
Stylus - Mini Touch/Credit Card Twist BP	Stylus Items	Penn State	1	PKT7-10	PKMBUSH3
Stylus - Touch	Stylus Items	Penn State	1	PKTSTU	PKMBUSH3
Stylus - Touch Tablet BP	Stylus Items	Penn State	2	PKTSPENTU	PKMBUSH3
Teachers Twist BP	Specialty Style Pens	Penn State	Other	PKT7-10	PKMBUSH3
Tower Twist BP	Large Sized BP Pens	Penn State	2	PKT7-10	PKTOWERBU
Traditional RB & FP	Medium Sized RB & FP Pens	Penn State	3	PKT10-6	PK10BUSH3
Trimline Click Pencil	Medium Sized Pencils	Penn State	2	PKTUBE7	PKXMBU
Trimline Twist BP	Medium Sized BP Pens	Penn State	2	PKT7-10	PKXMBU
Tycoon Screw Cap RB & FP	Large Sized RB & FP Pens	Penn State	3	PKTYTU	PKTYBU
Vertex Click BP	Medium Sized Single Tube BP Pens	Penn State	1	PKFP4000TU	PKFPBU
Vertex Click Pencil	Medium Sized Single Tube Pencils	Penn State	1	PKFP4000TU	PKFPBU
Vertex Magnetic RB & FP	Medium Sized Single Tube RB & FP Pens	Penn State	3	PKFP5000TU	PKFP5000BU
Vertex Supreme RB & FP	Large Sized RB & FP Pens	Penn State	2	PKGRAD2TU or PKMAJJRTU	PKFP5500BU
Victorian Twist BP	Ornate Large Sized BP Pens	Penn State	2	PKT38-8	PKVICBU

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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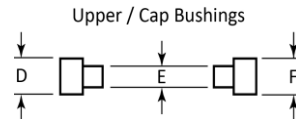
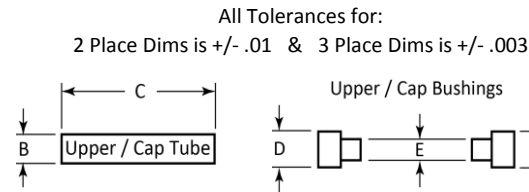
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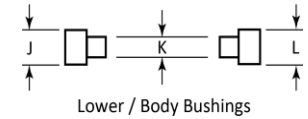
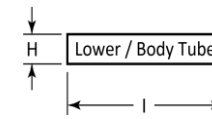
**A Drill Dia.**



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



**G Drill Dia.**



Penn State 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.
2 Way Tech BP	3/8" or 'V'	0.368	2.38	0.420	0.345	0.475	3/8" or 'V'	0.368	1.56	0.475	0.345	0.440
3 in 1 Screw Driver Twist BP	10 mm or 25/64"	0.385	1.88	0.475	0.357	0.475	7mm or 'J'	0.268	1.38	0.475	x	0.475
30 Caliber Bolt Action BP	3/8" or 'V'	0.368	1.97	0.466	0.345	0.466	x	x	x	x	x	x
30 Caliber Bolt Action BP - Mini	3/8" or 'V'	0.368	1.38	0.466	0.345	0.466	x	x	x	x	x	x
30 Caliber Bullet Click BP & Pencil	8mm or 'O'	0.311	2.03	0.466	0.286	0.466	x	x	x	x	x	x
30 Caliber Bullet Twist BP	3/8" or 'V'	0.368	1.97	0.466	0.345	0.466	x	x	x	x	x	x
30 Caliber Bullet Twist BP - Mini	7mm or 'J'	0.268	0.88	0.330	x	0.330	x	x	x	x	x	x
50 Caliber W/ Cross Refill Twist BP	7mm or 'J'	0.268	2.50	0.572	x	0.370	x	x	x	x	x	x
50 Caliber W/ Parker Refill Twist BP	8mm or 'O'	0.311	2.88	0.566	0.286	0.368	x	x	x	x	x	x
Apex SE Click BP	8mm or 'O'	0.311	3.50	0.600	0.286	0.330	8mm or 'O'	0.311	0.50	0.404	0.286	0.394
Apollo Elite Screw Cap RB & FP	9/16"	0.548	1.69	0.625	0.532	0.625	12.5mm or 0.492	0.483	2.13	0.536	0.458	0.536
Apollo Infinity Screw Cap RB & FP	9/16"	0.548	1.69	0.625	0.532	0.642	12.5mm or 0.492	0.483	2.13	0.540	0.458	0.555
Big Ben Cigar .5mm Pencil	10 mm or 25/64"	0.385	1.94	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.06	0.530	0.357	0.459
Big Ben Cigar Click 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
Big Ben Cigar Click Pencil	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
Big Ben Cigar Screw Cap FP & RB	10 mm or 25/64"	0.385	2.00	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.13	0.530	0.357	0.459
Big Ben Cigar Twist BP	10 mm or 25/64"	0.385	1.94	0.475	0.357	0.575	10 mm or 25/64"	0.385	2.06	0.530	0.357	0.459
Bolt Action Tec-Pen BP	8mm or 'O'	0.311	2.40	0.425	0.286	0.425	x	x	x	x	x	x
Breast Cancer Awareness Mini Twist BP	7mm or 'J'	0.268	1.50	0.407	x	0.466	7mm or 'J'	0.268	1.75	0.350	x	0.330
Breast Cancer Awareness Twist BP	3/8" or 'V'	0.368	1.75	0.408	0.345	0.520	8mm or 'O'	0.311	2.44	0.445	0.286	0.382
Broadwell Art Deco BP	3/8" or 'V'	0.368	2.00	0.495	0.345	0.495	x	x	x	x	x	x
Broadwell Art Deco RB & FP	12.5mm or 0.492	0.483	1.63	0.552	0.458	0.607	10.5mm or 13/32"	0.400	2.00	0.513	0.380	0.513
Broadwell Nouveau Sceptre Screw Cap RB & FP	12.5mm or 0.492	0.483	1.69	0.648	0.458	0.575	10.5mm or 13/32"	0.400	2.09	0.513	0.380	0.513
Broadwell Nouveau Sceptre Twist BP	3/8" or 'V'	0.368	1.88	0.495	0.345	0.495	x	x	x	x	x	x
Capri Compact FP	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	1.50	0.443	0.357	0.443
Capri Compact RB	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	2.28	0.443	0.357	0.443
Celtic Click BP	3/8" or 'V'	0.368	2.94	0.525	0.345	0.525	x	x	x	x	x	x
CEO Twist BP	'U'	0.358	3.00	0.425	0.335	0.425	x	x	x	x	x	x
Chalk Holder	12.5mm or 0.492	0.483	2.96	0.571	0.458	0.571	x	x	x	x	x	x
Civil War Pen	3/8" or 'V'	0.368	2.88	0.586	0.345	0.485	x	x	x	x	x	x
Classic Click BP	11mm	0.415	2.11	0.490	0.389	0.490	8mm or 'O'	0.311	1.78	0.391	0.286	0.400
Classic & Elite Screw Cap RB & FP	10 mm or 25/64"	0.385	1.81	0.495	0.357	0.495	10 mm or 25/64"	0.385	2.28	0.401	0.357	0.401
Classic Elite Petite Snap Cap Fountain Flow RB	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	1.53	0.443	0.357	0.443
Classic Elite Screw Cap RB & FP	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	2.28	0.443	0.357	0.443
Classic Elite Snap Cap RB & FP	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	2.28	0.443	0.357	0.443
Classic Screw Cap RB & FP	10 mm or 25/64"	0.385	1.63	0.495	0.357	0.495	10 mm or 25/64"	0.385	2.00	0.443	0.357	0.443

**Penn State Kit Bushing and Tube References**

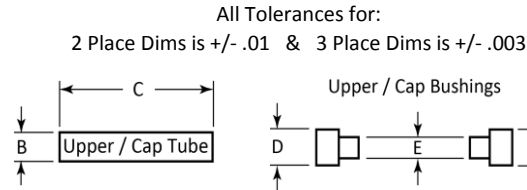
**Revised Jan. 18, 2014**

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.

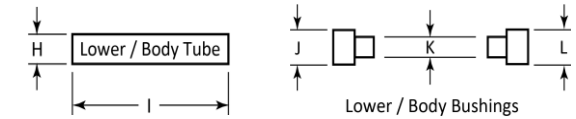
**A Drill Dia.**



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



**G Drill Dia.**



Penn State 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.
Classic Twist .7mm Pencil	8mm or 'O'	0.311	2.00	0.495	0.286	0.495	8mm or 'O'	0.311	2.00	0.400	0.286	0.400
Classic Twist BP	8mm or 'O'	0.311	2.00	0.490	0.286	0.490	8mm or 'O'	0.311	2.00	0.400	0.286	0.400
Comfort Twist BP & Pencil	7mm or 'J'	0.268	2.03	0.420	x	0.420	7mm or 'J'	0.268	2.03	0.420	x	0.330
Compson Click BP	3/8" or 'V'	0.368	2.94	0.456	0.345	0.440	x	x	x	x	x	x
Concava Twist BP	7mm or 'J'	0.268	1.69	0.520	x	0.520	7mm or 'J'	0.268	2.25	0.450	x	0.330
Crown Jewel Twist BP	11/32" or 'S'	0.338	3.13	0.420	0.310	0.420	x	x	x	x	x	x
Curvado Twist BP	8mm or 'O'	0.311	1.88	0.400	0.286	0.600	8mm or 'O'	0.311	2.06	0.600	0.286	0.400
Deluxe Pen & Sketch 5.6mm Pencil	11mm	0.415	2.69	0.576	0.389	0.500	x	x	x	x	x	x
Designer NT Twist BP	7mm or 'J'	0.268	2.03	0.407	x	0.522	7mm or 'J'	0.268	2.38	0.420	x	0.358
Designer NT Twist BP - Premium	8mm or 'O'	0.311	2.03	0.415	0.286	0.522	8mm or 'O'	0.311	2.38	0.425	0.286	0.368
Designer NT Twist Pencil	8mm or 'O'	0.311	2.03	0.400	0.286	0.522	8mm or 'O'	0.311	2.38	0.400	0.286	0.358
Designer Twist BP	7mm or 'J'	0.268	2.13		x		7mm or 'J'	0.268	2.38		x	
Designer Twist BP - Mini	7mm or 'J'	0.268	1.50	0.330	x	0.522	7mm or 'J'	0.268	1.69	0.420	x	0.330
Diamond File Pen	7mm or 'J'	0.268	3.06	0.330	x	0.330	7mm or 'J'	0.268	1.13	0.330	x	0.330
Diva Charm Twist BP	3/8" or 'V'	0.368	2.13	0.445	0.345	0.445	x	x	x	x	x	x
Duchess Twist BP	x	x	x	x	x	x	7mm or 'J'	0.268	2.44	0.420	x	0.330
Duchess Twist BP - Mini	x	x	x	x	x	x	7mm or 'J'	0.268	1.69	0.420	x	0.330
Executive Twist BP & .7mm Pencil	3/8" or 'V'	0.368	2.88	0.420	0.345	0.420	x	x	x	x	x	x
Funline Comfort Pencil	7mm or 'J'	0.268	2.03	0.420	x	0.420	7mm or 'J'	0.268	2.03	0.420	x	0.330
Funline Comfort Twist BP	7mm or 'J'	0.268	2.03	0.420	x	0.420	7mm or 'J'	0.268	2.03	0.420	x	0.330
Funline Designer Twist BP	7mm or 'J'	0.268	2.13		x		7mm or 'J'	0.268	2.38		x	
Funline Slimline Pencil	7mm or 'J'	0.268	2.03	0.330	x	0.330	7mm or 'J'	0.268	2.03	0.330	x	0.330
Funline Slimline Twist BP	7mm or 'J'	0.268	2.03	0.330	x	0.330	7mm or 'J'	0.268	2.03	0.330	x	0.330
Gatsby Click .7mm Pencil	27/64"	0.410	2.25	0.474	0.381	0.474	x	x	x	x	x	x
Gatsby Click BP	27/64"	0.410	2.25	0.474	0.381	0.474	x	x	x	x	x	x
Gatsby Grande Twist BP	3/8" or 'V'	0.368	2.19	0.525	0.345	0.525	x	x	x	x	x	x
Gatsby Twist BP (V2)	27/64"	0.410	2.22	0.474	0.381	0.474	x	x	x	x	x	x
Gemini .7mm Click Pencil	3/8" or 'V'	0.368	2.81	0.475	0.345	0.475	x	x	x	x	x	x
Gemini Click BP	3/8" or 'V'	0.368	2.81	0.475	0.345	0.475	x	x	x	x	x	x
Graduate - Magnetic RB & FP	12.5mm or 0.492	0.483	1.69	0.551	0.458	0.575	10.5mm or 13/32"	0.400	3.00	0.516	0.380	0.516
Graduate Post Twist BP	10 mm or 25/64"	0.385	1.88	0.515	0.357	0.515	8mm or 'O'	0.311	2.00	0.475	0.286	0.475
Graduate Twist BP	3/8" or 'V'	0.368	1.75	0.430	0.345	0.520	7mm or 'J'	0.268	2.44	0.430	x	0.323
Guardian Click BP	8mm or 'O'	0.311	2.69	0.625	0.286	0.625	x	x	x	x	x	x
Guardian Jr Click BP	8mm or 'O'	0.311	2.69	0.555	0.286	0.555	x	x	x	x	x	x
Guardian Snap Cap RB & FP	9/16"	0.548	1.38	0.625	0.535	0.625	27/64"	0.410	1.78	0.530	0.392	0.530
Knights Armor Twiat BP	3/8" or 'V'	0.368	2.66	0.495	0.345	0.495	x	x	x	x	x	x

**Penn State Kit Bushing and Tube References**

**Revised Jan. 18, 2014**

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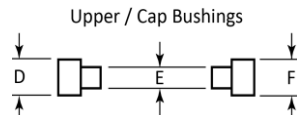
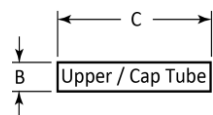
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Note: All data was compiled from suppliers published kit, tube and bushing information.

**A Drill Dia.**



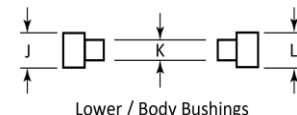
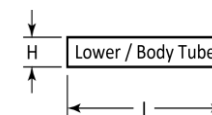
All Tolerances for:  
2 Place Dims is +/- .01 & 3 Place Dims is +/- .003



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



**G Drill Dia.**



Penn State 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.
Lady Designer Twist BP	7mm or 'J'	0.268	2.03	0.330	x	0.500	7mm or 'J'	0.268	2.03	0.400	x	0.330
Longwood 30 Caliber Twist BP	3/8" or 'V'	0.368	3.31	0.466	0.345	0.466	x	x	x	x	x	x
Longwood Click BP	7mm or 'J'	0.268	3.16	0.420	x	0.420	7mm or 'J'	0.268	1.00	0.420	x	0.330
Longwood Click Pencil	7mm or 'J'	0.268	3.16	0.420	x	0.420	7mm or 'J'	0.268	1.00	0.420	x	0.330
Magnum Bolt Action BP	10 mm or 25/64"	0.385	2.06	0.525	0.357	0.525	x	x	x	x	x	x
Magnum Bullet Cartridge Twist BP	10 mm or 25/64"	0.385	2.06	0.525	0.357	0.525	x	x	x	x	x	x
Majestic Jr Screw Cap RB	12.5mm or 0.492	0.483	1.88	0.551	0.458	0.575	10.5mm or 13/32"	0.400	2.03	0.516	0.380	0.516
Majestic Screw Cap RB & FP	37/64"	0.571	1.97	0.650	0.547	0.650	15/32"	0.450	2.15	0.598	0.427	0.570
Majestic Squire Twist BP	3/8" or 'V'	0.368	2.00	0.495	0.345	0.495	x	x	x	x	x	x
Metallo 7mm Twist BP	x	x	x	x	x	x	7mm or 'J'	0.268	2.25	0.360	x	0.360
Metallo 8mm Twist BP	x	x	x	x	x	x	8mm or 'O'	0.311	2.25	0.425	0.286	0.425
Mini Bullet Twist BP	7mm or 'J'	0.268	2.03	0.360	x	0.625	7mm or 'J'	0.268	1.19	0.625	x	0.342
Mini Click BP	10 mm or 25/64"	0.385	2.75	0.466	0.357	0.446	x	x	x	x	x	x
Olympian Elite Screw Cap RB	33/64"	0.510	1.69	0.590	0.492	0.590	31/64"	0.470	2.00	0.536	0.450	0.536
Olympian Elite 2 Screw Cap RB	33/64"	0.510	1.69	0.592	0.492	0.655	31/64"	0.470	2.00	0.536	0.450	0.536
Over & Under Shotgun Shell RB & FP	9/16"	0.548	1.86	0.625	0.535	0.625	12.5mm or 0.492	0.483	2.06	0.541	0.458	0.541
Patrizio Europa Twist BP & Click Pencil	7mm or 'J'	0.268	1.47	0.450	x	0.480	7mm or 'J'	0.268	1.47	0.440	x	0.373
Patrizio Twist BP & Click Pencil	7mm or 'J'	0.268	1.47	0.440	x	0.470	7mm or 'J'	0.268	1.47	0.470	x	0.420
Polaris Click BP	3/8" or 'V'	0.368	2.84	0.495	0.345	0.450	x	x	x	x	x	x
Polaris Twist BP & .7mm Pencil	3/8" or 'V'	0.368	2.84	0.495	0.345	0.450	x	x	x	x	x	x
Power Click BP & Pencil	8mm or 'O'	0.311	1.88	0.430	0.286	0.430	8mm or 'O'	0.311	1.88	0.430	0.286	0.373
Presimo Press Top RB & FP	10 mm or 25/64"	0.385		0.520	0.357	0.520	x	x	x	x	x	x
Princess Twist BP	10 mm or 25/64"	0.385	1.50	0.492	0.357	0.492	8mm or 'O'	0.311	2.47	0.442	0.286	0.387
Razor - Mach 3	7mm or 'J'	0.268	3.00	0.400	x	0.400	x	x	x	x	x	x
Razor - Magnum Mach 3	7mm or 'J'	0.268	2.06	0.525	Turn out	0.525	x	x	x	x	x	x
Razor - Majestic Mach 3	7mm or 'J'	0.268	3.00	0.495	Turn out	0.495	x	x	x	x	x	x
Rollester RB	3/8" or 'V'	0.368	3.30	0.445	0.345	0.445	x	x	x	x	x	x
Royal Crown Jewel Twist BP	11/32" or 'S'	0.338	3.13	0.420	0.310	0.420	x	x	x	x	x	x
Sculptured BP	8mm or 'O'	0.311	2.00	0.480	0.286	0.480	8mm or 'O'	0.311	2.00	0.393	0.286	0.393
Shimmering Crystals Twist BP	8mm or 'O'	0.311	2.28	0.398	0.286	0.355	x	x	x	x	x	x
Shock Absorber Screw Cap BP	11mm	0.415	1.44	0.564	0.389	0.500	x	x	x	x	x	x
Sketch 3mm Click Pencil - Mini	8mm or 'O'	0.311	3.50	0.435	0.286	0.435	x	x	x	x	x	x
Sketch 5.6mm Click Pencil - Workshop	11mm	0.415		0.512	0.389	0.512	11mm	0.415		0.512	0.389	0.512
Slimline Click Pencil	7mm or 'J'	0.268	2.03	0.330	x	0.330	7mm or 'J'	0.268	2.03	0.330	x	0.330
Slimline Pro Click BP & .7mm Pencil	8mm or 'O'	0.311	2.03	0.425	0.286	0.425	8mm or 'O'	0.311	2.03	0.425	0.286	0.425
Slimline Twist BP	7mm or 'J'	0.268	2.03	0.330	x	0.330	7mm or 'J'	0.268	2.03	0.330	x	0.330

**Penn State Kit Bushing and Tube References**

**Revised Jan. 18, 2014**

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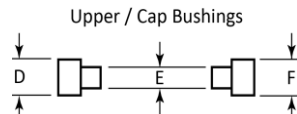
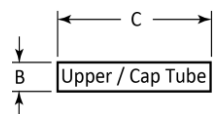
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**A Drill Dia.**



All Tolerances for:

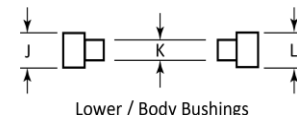
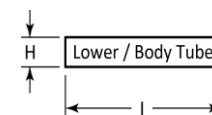
2 Place Dims is +/- .01 & 3 Place Dims is +/- .003



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**G Drill Dia.**



Penn State 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.
Segmented Twist BP	7mm or 'J'	0.268	(2) @ .97	0.410	x	0.460	7mm or 'J'	0.268	1.56	0.460	x	0.410
Starlet Stem BP	7mm or 'J'	0.268	2.41	0.330	x	0.330	x	x	x	x	x	x
Spartan Click BP	3/8" or 'V'	0.368	2.77	0.495	0.345	0.495	x	x	x	x	x	x
Stratus Click BP	3/8" or 'V'	0.368	2.69	0.445	0.345	0.445	x	x	x	x	x	x
Stylus - 3 in 1 Flip BP & Light	12.5mm or 0.492	0.483	2.41	0.571	0.458	0.571	x	x	x	x	x	x
Stylus - Flip Click Cap BP V2	3/8" or 'V'	0.368	2.56	0.433	0.345	0.433	x	x	x	x	x	x
Stylus Key Chain BP	7mm or 'J'	0.268	1.75	0.380	x	0.510	x	x	x	x	x	x
Stylus - Mini Telescoping BP	7mm or 'J'	0.268	2.38	0.330	x	0.330	x	x	x	x	x	x
Stylus - Mini Touch W/ Plug	7mm or 'J'	0.268	1.75	0.330	x	0.330	x	x	x	x	x	x
Stylus - Mini Touch/Credit Card Twist BP	7mm or 'J'	0.268	1.70	0.330	x	0.330	x	x	x	x	x	x
Stylus - Touch	7mm or 'J'	0.268	3.19	0.330	x	0.330	x	x	x	x	x	x
Stylus - Touch Tablet BP	7mm or 'J'	0.268	1.91	0.330	x	0.330	7mm or 'J'	0.268	1.91	0.330	x	0.330
Teachers Twist BP	7mm or 'J'	0.268	2.19	0.330	x	0.330	7mm or 'J'	0.268	(2) @ .81	0.330	x	0.330
Tower Twist BP	7mm or 'J'	0.268	2.75		x		7mm or 'J'	0.268	2.50		x	
Traditional RB & FP	10 mm or 25/64"	0.385	2.19	0.450	0.357	0.450	10 mm or 25/64"	0.385	2.19	0.450	0.357	0.450
Trimline Click Pencil	7mm or 'J'	0.268	2.00	0.347	x	0.440	7mm or 'J'	0.268	2.00	0.440	x	0.330
Trimline Twist BP	7mm or 'J'	0.268	2.09	0.347	x	0.440	7mm or 'J'	0.268	2.09	0.440	x	0.330
Tycoon Screw Cap RB & FP	15/32"	0.450	1.81	0.563	0.429	0.535	10 mm or 25/64"	0.385	2.13	0.480	0.357	0.480
Vertex Click BP	3/8" or 'V'	0.368	2.90	0.433	0.345	0.433	x	x	x	x	x	x
Vertex Click Pencil	3/8" or 'V'	0.368	2.90	0.433	0.345	0.433	x	x	x	x	x	x
Vertex Magnetic RB & FP	10.5mm or 13/32"	0.400	2.38	0.460	0.380	0.460	x	x	x	x	x	x
Vertex Supreme RB & FP	12.5mm or 0.492	0.483	1.69	0.551	0.458	0.575	10.5mm or 13/32"	0.400	2.63	0.516	0.380	0.516
Victorian Twist BP	3/8" or 'V'	0.368	1.34	0.550	0.345	0.550	3/8" or 'V'	0.368	1.34	0.550	0.345	0.550

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.