



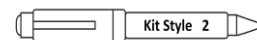
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Penn State Kit Bushing & Tube Refs.
Imperial English Units Revised 7-2-2023
 Please report any additions, corrections, suggestions to:
 Wayne Racinowski - IAP Library Manager
 libman (at) penturners (dot) org

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

Dimensions are based on Imperial English.
 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.



Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	4 in 1 Multi Function pen & Pencil (PSI)	Medium Sized Single Tube BP Pens and Pencil	2	PKT10-6 (10 inch)	PKVESBU
Penn State	American Beauty Twist BP (PSI)	Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKABBU
Penn State	American Patriot Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKT105-6 (10 inch)	PKPPRBBU
Penn State	American Patriot Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	PKPPENBU
Penn State	American Pride Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT105-6 (10 inch)	PKAPFILBU
Penn State	Anvil EDC Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKANVBU
Penn State	Anvil EDC Click Pencil (PSI)	Medium Sized Single Tube Pencils	1	PKT8-8 (10 inch)	PKANVBU
Penn State	Apex SE Click BP (PSI)	Large Sized BP Pens	1	PKVPENTU or PKT8-8 (10 inch)	PKVPENBU
Penn State	Apollo Elite Screw Cap RB or FP (PSI)	Extra Large Sized RB or FP Pens	3	PKAPTU	PKAPRBU
Penn State	Apollo Infinity Closed End RB or FP (PSI)	Extra Large Sized RB or FP Pens	3	PKMAJJRTU	PKAPCEBU
Penn State	Apollo Infinity Screw Cap RB or FP (PSI)	Extra Large Sized RB or FP Pens	3	PKAPTU	PKAPR2BU
Penn State	Apollo Infinity Twist BP (PSI)	Large Sized BP Pens	2	PKT38-8 & PKT8-8 (10 inch)	PKAPBBU
Penn State	Archery Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	PKARCHBU
Penn State	Aromatherapy Necklace (PSI)	Slim Sized Single Tube Specialty Items	0	PKT8-8 (10 inch)	PKATHNBU
Penn State	Aromatherapy Twist BP (PSI)	Medium Sized BP Pens	2	PKT10-6 (10 inch)	PKPUTBU
Penn State	Baseball Bolt Action BP (PSI)	Ornate Large Sized Single Tube Bullet BP Pens	2	PKT38-8 (10 inch)	PKBASEBU
Penn State	Basketball Twist BP (PSI)	Large Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKBASKETBU
Penn State	Bella Twist BP - Sierra Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKT10-6 (10 inch)	PKBELCH



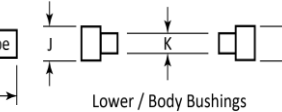
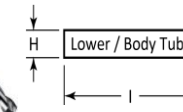
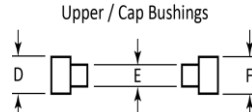
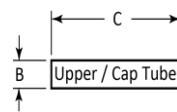
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ALWAYS MEASURE AND RELY ON THE KIT PARTS FOR ACCURACY.

Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		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.
Penn State	4 in 1 Multi Function pen & Pencil (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.15	0.475	0.357	0.475
Penn State	American Beauty Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	3.00	0.457	0.345	0.457
Penn State	American Patriot Screw Cap RB or FP (PSI)	10.5mm or Z	0.400	1.17	0.470	0.376	0.510	10.5mm or Z	0.400	2.08	0.500	0.376	0.500
Penn State	American Patriot Twist BP (PSI)	3/8 or 9.5mm	0.368	1.26	0.480	0.345	0.480	3/8 or 9.5mm	0.368	1.63	0.480	0.345	0.480
Penn State	American Pride Twist BP (PSI)	10.5mm or Z	0.400	1.80	0.472	0.376	0.472	10.5mm or Z	0.400	2.08	0.495	0.376	0.495
Penn State	Anvil EDC Click BP (PSI)	8mm or O	0.311	2.65	0.410	0.286	0.393	x	x	x	x	x	x
Penn State	Anvil EDC Click Pencil (PSI)	8mm or O	0.311	2.65	0.410	0.286	0.393	x	x	x	x	x	x
Penn State	Apex SE Click BP (PSI)	8mm or O	0.311	3.50	0.600	0.286	0.331	8mm or O	0.311	0.50	0.404	0.286	0.394
Penn State	Apollo Elite Screw Cap RB or FP (PSI)	9/16 or 14.3mm	0.548	1.69	0.625	0.535	0.625	12.5mm or 0.492	0.483	2.13	0.536	0.460	0.536
Penn State	Apollo Infinity Closed End RB or FP (PSI)	9/16 or 14.3mm	0.548	1.69	0.640	0.535	x	10.5mm or Z	0.400	2.08	0.553	0.376	x
Penn State	Apollo Infinity Screw Cap RB or FP (PSI)	9/16 or 14.3mm	0.548	1.69	0.625	0.535	0.642	12.5mm or 0.492	0.483	2.13	0.540	0.460	0.555
Penn State	Apollo Infinity Twist BP (PSI)	3/8 or 9.5mm	0.368	1.64	0.511	0.345	0.511	8mm or O	0.311	2.05	0.422	0.286	0.402
Penn State	Archery Twist BP (PSI)	3/8 or 9.5mm	0.368	1.86	0.443	0.345	0.433	3/8 or 9.5mm	0.368	2.23	0.443	0.345	0.443
Penn State	Aromatherapy Necklace (PSI)	Metal Cap	x	x	x	x	x	8mm or O	0.311	1.06	0.373	0.286	0.373
Penn State	Aromatherapy Twist BP (PSI)	10mm or 25/64	0.385	1.93	0.488	0.357	0.488	10mm or 25/64	0.385	1.83	0.488	0.357	0.488
Penn State	Baseball Bolt Action BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.28	0.515	0.345	0.451
Penn State	Basketball Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	3.27	0.523	0.343	0.517
Penn State	Bella Twist BP - Sierra Styled (PSI)	10mm or 25/64	0.385	2.25	0.475	0.357	0.469	x	x	x	x	x	x



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Typical Mandrel Dia. Sizes
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Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Big Ben EDC Click BP	Large Sized Single Tube BP Pens	1	PKT10-6	PKBIGEDCBU
Penn State	Bird Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKFEDBU
Penn State	Bling with Crystals Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKBLPENTU or PKT38-8 & PKT8-8	PKBCPBU
Penn State	Bolt Action 30 Caliber BP - Bald Eagle (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Ceramic Flag (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Ceramic Woodland Camouflage (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Deer Hunter (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Magnum (PSI)	Large Sized Single Tube Bullet BP Pens	1	PKCP7000TU or PKT10-6 (10 inch)	PKCP7000BU
Penn State	Bolt Action 30 Caliber BP - Mini (PSI)	Medium Sized Single Tube Bullet BP Pens	1	PKCP8200TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Salute the Troops (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP - Statue of Liberty (PSI)	Ornate Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber BP (PSI)	Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 30 Caliber Click Pencil (PSI)	Medium Sized Single Tube Bullet Pencils	1	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bolt Action 50 Caliber BP (PSI)	Extra Large Bullet Pen	1	PKT38-8 & PKT8-8 (10 inch)	PK50BABU
Penn State	Bolt Action BP - Steampunk (PSI)	Ornate Large Sized Single Tube Bullet BP Pens	1	PKT38-8 (10 inch)	PKVICBU
Penn State	Bolt Action Ceramic Woodland Camouflage BP (PSI)	Medium Sized Single Tube Bullet BP Pens	1	PKCP3000TU	PKCP3000BU
Penn State	Bolt Action Tec-Pen BP and Stylus (PSI)	Medium Sized Single Tube Bullet BP with Stylus	1	PKTPENTU or PKT8-8 (10 inch)	PKTPENBU
Penn State	Botanical Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKCTRBUB



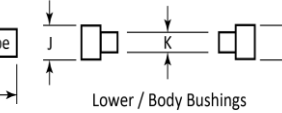
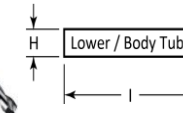
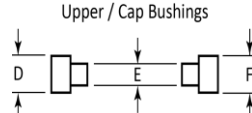
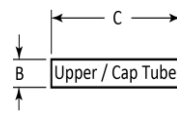
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Big Ben EDC Click BP	10mm or 25/64	0.385	3.07	0.473	0.357	0.525	x	x	x	x	x	x
Penn State	Bird Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.27	0.483	0.345	0.429
Penn State	Bling with Crystals Twist BP (PSI)	3/8 or 9.5mm	0.368	1.75	0.408	0.345	0.520	8mm or O	0.311	2.31	0.445	0.286	0.382
Penn State	Bolt Action 30 Caliber BP - Bald Eagle (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Ceramic Flag (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Ceramic Woodland Camouflage (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Deer Hunter (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Magnum (PSI)	10mm or 25/64	0.385	2.06	0.525	0.357	0.525	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Mini (PSI)	3/8 or 9.5mm	0.368	1.38	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Salute the Troops (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP - Statue of Liberty (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber BP (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 30 Caliber Click Pencil (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action 50 Caliber BP (PSI)	3/8 or 9.5mm	0.368	1.50	0.770	0.345	0.735	Real Cartridge Bullet Like	x	x	x	x	x
Penn State	Bolt Action BP - Steampunk (PSI)	3/8 or 9.5mm	0.368	1.85	0.550	0.345	0.550	Metal Nib	x	x	x	x	x
Penn State	Bolt Action Ceramic Woodland Camouflage BP (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.343	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bolt Action Tec-Pen BP and Stylus (PSI)	Metal Cap	x	x	x	x	x	8mm or O	0.311	2.50	0.425	0.286	0.425
Penn State	Botanical Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.13	0.505	0.345	0.431



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Penn State	Bracelet Assistant Helper (PSI)	Slim Sized Single Tube Specialty Items	0	MCM-CFTU or PKT7-10 (10 inch)	PKBHOLDBU
Penn State	Breast Cancer Awareness Twist BP - Mini (PSI)	Medium Sized BP Pens and Cancer Awareness	2	PBCMTU or PKT7-10 (10 inch)	PKBCMBU
Penn State	Breast Cancer Awareness Twist BP (PSI)	Medium Sized BP Pens and Cancer Awareness	2	PKBCPTU or PKT38-8 & PKT8-8	PKBCPBU
Penn State	Broadwell Art Deco Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKARTTUA or PKT125-6 & PKT105-6	PKARTBU
Penn State	Broadwell Art Deco Twist BP - Sierra Styled (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKMAJSQTU or PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Broadwell Nouveau Sceptre Screw Cap FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKDBTUA or PKT125-6 & PKT105-6	PKDBBUA
Penn State	Broadwell Nouveau Sceptre Screw Cap RB (PSI)	Ornate Large Sized RB or FP Pens	3	PKDBTUA or PKT125-6 & PKT105-6	PKDBBUA
Penn State	Broadwell Nouveau Sceptre Twist BP - Sierra Styled (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKDBTPTU or PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Buffalo Bullet Pencil Holder (PSI)	Medium Sized Single Tube Bullet Pencils	3	PKT38-8 (10 inch)	PKEXECBU
Penn State	Bullet 30 Caliber Magnetic RB (PSI)	Medium Sized Single Tube RB Pens	3	PKT10-6 (10 inch)	PKCP9000BU
Penn State	Bullet Cartridge Click 30 Caliber BP & Pencil (PSI)	Medium Sized Single Tube Bullet BP & Pencils	2	PKCP2400TU or PKT8-8 (10 inch)	PKCP2400BU
Penn State	Bullet Cartridge Machine Gun Flip 50 Cal. BP (PSI)	Large Sized Single Tube Bullet BP Pens	3	PKT38-8 (10 inch)	PK50RBU
Penn State	Bullet Cartridge Machine Gun Twist 50 Cal BP - Cross Refill (PSI)	Large Sized Single Tube Bullet BP Pens	2	PK50CALTU or PKT7-10 (10 inch)	PK50CALBU
Penn State	Bullet Cartridge Machine Gun Twist 50 Caliber BP - Parker Refill (PSI)	Large Sized Single Tube Bullet BP Pens	2	PKT8-8 (10 inch)	PK50CALPBU
Penn State	Bullet Cartridge Twist 30 Caliber BP - Magnum (PSI)	Large Sized Single Tube Bullet BP Pens	2	PKCP7000TU or PKT10-6 (10 inch)	PKCP7000BU
Penn State	Bullet Cartridge Twist 30 Caliber BP - Mini (PSI)	Slim Sized Single Tube Bullet BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Bullet Cartridge Twist 30 Caliber BP (PSI)	Medium Sized Single Tube Bullet BP Pens	2	PKCP3000TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Bullet Shell Over Under Shotgun Screw Cap RB or FP (PSI)	Extra Large Bullet Style RB or FP Pens	3	PKCP6000TU	PKCP6000BU



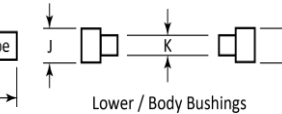
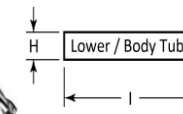
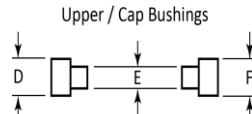
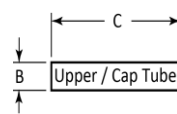
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Penn State	Bracelet Assistant Helper (PSI)	7mm or J	0.268	2.03	0.440	x	0.490	7mm or J	0.268	2.03	0.490	x	0.440
Penn State	Breast Cancer Awareness Twist BP - Mini (PSI)	7mm or J	0.268	1.45	0.407	x	0.466	7mm or J	0.268	1.75	0.350	x	0.331
Penn State	Breast Cancer Awareness Twist BP (PSI)	3/8 or 9.5mm	0.368	1.75	0.408	0.345	0.520	8mm or O	0.311	2.44	0.445	0.286	0.382
Penn State	Broadwell Art Deco Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.70	0.552	0.460	0.607	10.5mm or Z	0.400	2.09	0.514	0.376	0.514
Penn State	Broadwell Art Deco Twist BP - Sierra Styled (PSI)	3/8 or 9.5mm	0.368	2.00	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Broadwell Nouveau Sceptre Screw Cap FP (PSI)	12.5mm or 0.492	0.483	1.69	0.648	0.460	0.575	10.5mm or Z	0.400	2.09	0.514	0.376	0.514
Penn State	Broadwell Nouveau Sceptre Screw Cap RB (PSI)	12.5mm or 0.492	0.483	1.69	0.648	0.460	0.575	10.5mm or Z	0.400	2.09	0.514	0.376	0.514
Penn State	Broadwell Nouveau Sceptre Twist BP - Sierra Styled (PSI)	3/8 or 9.5mm	0.368	1.88	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Buffalo Bullet Pencil Holder (PSI)	3/8 or 9.5mm	0.368	2.75	0.420	0.345	0.420	Metal Cap	x	x	x	x	x
Penn State	Bullet 30 Caliber Magnetic RB (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.91	0.477	0.357	0.477
Penn State	Bullet Cartridge Click 30 Caliber BP & Pencil (PSI)	8mm or O	0.311	2.03	0.466	0.286	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bullet Cartridge Machine Gun Flip 50 Cal. BP (PSI)	Real Cartridge Metal Nib	x	x	x	x	x	3/8 or 9.5mm	0.368	2.12	0.505	0.345	0.505
Penn State	Bullet Cartridge Machine Gun Twist 50 Cal BP - Cross Refill (PSI)	Real Cartridge Metal Nib	x	x	x	x	x	7mm or J	0.268	2.50	0.572	x	0.370
Penn State	Bullet Cartridge Machine Gun Twist 50 Caliber BP - Parker Refill (PSI)	Real Cartridge Metal Nib	x	x	x	x	x	8mm or O	0.311	2.88	0.566	0.286	0.368
Penn State	Bullet Cartridge Twist 30 Caliber BP - Magnum (PSI)	Cartridge Like Bullet Like	x	x	x	x	x	10mm or 25/64	0.385	2.06	0.525	0.357	0.525
Penn State	Bullet Cartridge Twist 30 Caliber BP - Mini (PSI)	Real Cartridge Metal Nib	x	x	x	x	x	7mm or J	0.268	0.88	0.331	x	0.331
Penn State	Bullet Cartridge Twist 30 Caliber BP (PSI)	3/8 or 9.5mm	0.368	1.97	0.466	0.345	0.466	Cartridge Like Bullet Like	x	x	x	x	x
Penn State	Bullet Shell Over Under Shotgun Screw Cap RB or FP (PSI)	9/16 or 14.3mm	0.548	1.86	0.625	0.535	0.625	12.5mm or 0.492	0.483	2.06	0.541	0.460	0.541



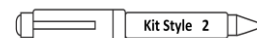
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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Bullet Twist BP - Mini (PSI)	Extra Large Sized BP Pens	2	MCM-CFTU or PKT7-10 (10 inch)	PKBULPENBU
Penn State	Cameo Twist BP (PSI)	Large Sized BP Pens	2	PKCAMTU or PKT38-8 & PKT8-8	PKCAMBU
Penn State	Cameron Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKCMRBU
Penn State	Capri Compact FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Capri Compact RB (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Cat Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT10-6 (10 inch)	PKSHAKEBU
Penn State	Celtic Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKCPENRBU
Penn State	Celtic Twist BP (PSI)	Ornate Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKGAFBU
Penn State	CEO Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	x	PKCEOBU
Penn State	Chalk Holder (PSI)	Large Sized Specialty Style Pens	1	PKT125-6 (10 inch)	PKCKBU
Penn State	Chic-Line Twist BP & Pencil V2 (PSI)	Slim Sized BP Pens & Pencils	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Cigar Click BP - Big Ben (PSI)	Large Sized BP Pens	2	PKBIGTU or PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Click Pencil .2mm - Big Ben (PSI)	Large Sized Pencils	2	PKBIGTU or PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Click Pencil .5mm - Big Ben (PSI)	Large Sized Pencils	2	PKBIGTU or PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Screw Cap FP and RB - Big Ben (PSI)	Large Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Twist BP - Big Ben (PSI)	Large Sized BP Pens	2	PKBIGTU or PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Twist BP - Big Ben with Stylus Tip (PSI)	Large Sized BP Pens with Stylus	2	PKT10-6 (10 inch)	PKBIGBU
Penn State	Cigar Twist Pencil - Big Ben (PSI)	Large Sized Pencils	2	PKBIGTU or PKT10-6 (10 inch)	PKBIGBU



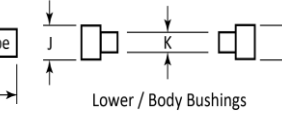
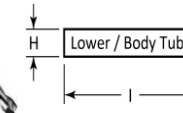
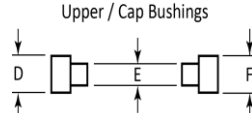
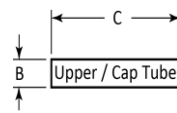
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Bullet Twist BP - Mini (PSI)	7mm or J	0.268	2.03	0.360	x	0.625	7mm or J	0.268	1.19	0.625	x	0.342
Penn State	Cameo Twist BP (PSI)	3/8 or 9.5mm	0.368	2.56	0.511	0.345	0.443	8mm or O	0.311	1.13	0.478	0.286	0.316
Penn State	Cameron Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.83	0.569	0.460	0.569	10.5mm or Z	0.400	2.09	0.511	0.376	0.495
Penn State	Capri Compact FP (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	1.50	0.443	0.357	0.443
Penn State	Capri Compact RB (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	2.28	0.443	0.357	0.443
Penn State	Cat Twist BP (PSI)	10mm or 25/64	0.385	1.62	0.450	0.357	0.498	10mm or 25/64	0.385	1.98	0.498	0.357	0.450
Penn State	Celtic Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.22	0.528	0.460	0.575	10.5mm or Z	0.400	3.00	0.515	0.376	0.515
Penn State	Celtic Twist BP (PSI)	3/8 or 9.5mm	0.368	3.00	0.525	0.345	0.525	x	x	x	x	x	x
Penn State	CEO Twist BP (PSI)	U or 0.368	0.358	3.00	0.425	0.335	0.425	x	x	x	x	x	x
Penn State	Chalk Holder (PSI)	12.5mm or 0.492	0.483	2.96	0.571	0.460	0.571	x	x	x	x	x	x
Penn State	Chic-Line Twist BP & Pencil V2 (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Cigar Click BP - Big Ben (PSI)	10mm or 25/64	0.385	1.94	0.475	0.357	0.575	10mm or 25/64	0.385	2.06	0.530	0.357	0.459
Penn State	Cigar Click Pencil .2mm - Big Ben (PSI)	10mm or 25/64	0.385	1.91	0.475	0.357	0.575	10mm or 25/64	0.385	2.09	0.530	0.357	0.459
Penn State	Cigar Click Pencil .5mm - Big Ben (PSI)	10mm or 25/64	0.385	1.94	0.475	0.357	0.575	10mm or 25/64	0.385	2.06	0.530	0.357	0.459
Penn State	Cigar Screw Cap FP and RB - Big Ben (PSI)	10mm or 25/64	0.385	2.00	0.475	0.357	0.575	10mm or 25/64	0.385	2.13	0.530	0.357	0.459
Penn State	Cigar Twist BP - Big Ben (PSI)	10mm or 25/64	0.385	1.94	0.475	0.357	0.575	10mm or 25/64	0.385	2.06	0.530	0.357	0.459
Penn State	Cigar Twist BP - Big Ben with Stylus Tip (PSI)	10mm or 25/64	0.385	1.90	0.475	0.357	0.575	10mm or 25/64	0.385	2.05	0.530	0.357	0.459
Penn State	Cigar Twist Pencil - Big Ben (PSI)	10mm or 25/64	0.385	1.94	0.475	0.357	0.575	10mm or 25/64	0.385	2.06	0.530	0.357	0.459



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Kit Style 0 are Misc. Kit

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Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Civil War Bullet Twist BP (PSI)	Large Sized Single Tube Bullet BP Pens	1	PKCWPENTU or PKT38-8 (10 inch)	PKCWPENBU
Penn State	Clarion Clear Demonstrator Screw Cap FP (PSI)	Medium Sized Single Tube RB or FP Pens	3	PKT125-6 (10 inch)	PKCLFPBU
Penn State	Classic Click BP (PSI)	Medium Sized BP Pens	2	PKSPCL2TU & PKT8-8 (10 inch)	PKPARKBU2
Penn State	Classic Click EDC BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKSPCL3BU
Penn State	Classic Elite II Screw Cap RB or FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Classic Elite Screw Cap RB or FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Classic Elite Snap Cap Fountain Flow RB - Petite (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Classic Elite Snap Cap RB or FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Classic Screw Cap RB or FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PKPAR10B2
Penn State	Classic Twist .7mm Pencil (PSI)	Medium Sized Pencils	2	PKT8-8 (10 inch)	PKPARKBU3
Penn State	Classic Twist BP (PSI)	Medium Sized BP Pens	2	PKT8-8 (10 inch)	PKPARKBU
Penn State	Clip Bolt Action (PSI)	Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKCHPENBU
Penn State	Clock - 3 or 10 Minute Hourglass (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Clock - 60 Minute Hourglass (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Clock - Necklace Micro (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Clock - Pocket Watch (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Combo Click BP & Pencil (PSI)	Medium Sized BP Pens and Pencils	2	PKT38-8 (10 inch)	PKCOMBO-BU
Penn State	Comfort Click Pencil - Funline (PSI)	Medium Sized Pencils	2	MCM-CFTU or PKT7-10 (10 inch)	PKCFBUSH



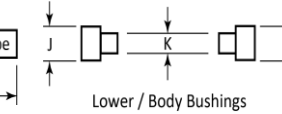
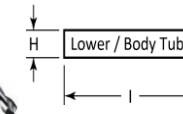
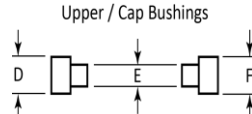
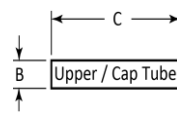
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Civil War Bullet Twist BP (PSI)	3/8 or 9.5mm	0.368	2.88	0.586	0.345	0.485	x	x	x	x	x	x
Penn State	Clarion Clear Demonstrator Screw Cap FP (PSI)	12.5mm or 0.492	0.483	1.90	0.485	0.460	0.485	x	x	x	x	x	x
Penn State	Classic Click BP (PSI)	7/16 or 11.2mm	0.415	2.22	0.490	0.389	0.490	8mm or O	0.311	1.78	0.391	0.286	0.400
Penn State	Classic Click EDC BP (PSI)	8mm or O	0.311	3.12	0.435	0.286	0.435	x	x	x	x	x	x
Penn State	Classic Elite II Screw Cap RB or FP (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	2.28	0.443	0.357	0.443
Penn State	Classic Elite Screw Cap RB or FP (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	2.28	0.443	0.357	0.443
Penn State	Classic Elite Snap Cap Fountain Flow RB - Petite (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	1.53	0.443	0.357	0.443
Penn State	Classic Elite Snap Cap RB or FP (PSI)	10mm or 25/64	0.385	1.41	0.495	0.357	0.495	10mm or 25/64	0.385	2.28	0.443	0.357	0.443
Penn State	Classic Screw Cap RB or FP (PSI)	10mm or 25/64	0.385	1.63	0.495	0.357	0.495	10mm or 25/64	0.385	2.00	0.443	0.357	0.443
Penn State	Classic Twist .7mm Pencil (PSI)	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
Penn State	Classic Twist BP (PSI)	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
Penn State	Clip Bolt Action (PSI)	Metal Clip	x	x	x	x	x	3/8 or 9.5mm	0.368	2.37	0.445	0.345	0.455
Penn State	Clock - 3 or 10 Minute Hourglass (PSI)	5/16 & 7/16	x	4.50	x	x	x	x	x	x	x	x	x
Penn State	Clock - 60 Minute Hourglass (PSI)	9/16 or 14.3mm	x	7.50	x	x	x	x	x	x	x	x	x
Penn State	Clock - Necklace Micro (PSI)	9/64 & 15/16	x	0.50	x	x	x	x	x	x	x	x	x
Penn State	Clock - Pocket Watch (PSI)	1/4 & 1-3/8	x	0.50	x	x	x	x	x	x	x	x	x
Penn State	Combo Click BP & Pencil (PSI)	3/8 or 9.5mm	0.368	2.81	?	0.345	?	3/8 or 9.5mm	0.368	1.41	?	0.345	?
Penn State	Comfort Click Pencil - Funline (PSI)	7mm or J	0.268	2.03	0.420	x	0.420	7mm or J	0.268	2.03	0.420	x	0.331



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Penn State	Comfort Twist BP - Funline (PSI)	Medium Sized BP Pens	2	MCM-CFTU or PKT7-10 (10 inch)	PKCFBUSH
Penn State	Comfort Twist BP - No Press Assy. (PSI)	Medium Sized BP Pens	2	MCM-CFTU	PKCFBUSH
Penn State	Comfort Twist BP or Click Pencil (PSI)	Medium Sized BP Pens and Pencils	2	MCM-CFTU or PKT7-10 (10 inch)	PKCFBUSH
Penn State	Compson Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKJPENTU or PKT38-8 (10 inch)	PKJPENBU
Penn State	Concava Twist BP (PSI)	Large Sized BP Pens	2	PKCONTU or PKT7-10 (10 inch)	PKCONBU
Penn State	Contour Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKCTRBUB
Penn State	Cortona Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKCORBU
Penn State	Cortona Twist BP with Stylus (PSI)	Medium Sized Single Tube BP Pens with Stylus	1	PKT8-8 (10 inch)	PKCORBU
Penn State	Cosmetic Brush (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Cosmopolitan Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKCP3000BU
Penn State	Cowboy - Western Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT8-8 (10 inch)	PKWESTBU
Penn State	Credit Card Twist BP - Mini (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Crochet Hook Set - Interchangeable (PSI)	Medium Sized Single Tube Specialty Items	0	PKSR1TU or PKT8-8 (10 inch)	PKSRBU
Penn State	Crochet Hook Set - Necklace (PSI)	Medium Sized Single Tube Specialty Items	0	PKSR1TU or PKT8-8 (10 inch)	PKSRBU
Penn State	Crown Jewel Twist BP - Royal (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKRYLTU	PKNICKBU
Penn State	Curvado Twist BP (PSI)	Large Sized BP Pens	2	PKT8-8 (10 inch)	PKSPENBU
Penn State	Designer Filigree Twist BP (PSI)	Medium Sized BP Pens	2	MONTTUBE5 or PKT7-10 (10 inch)	PKMONTFLBU
Penn State	Designer NT Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	x	PKMONTBU3 (NT version)



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Imperial English Units Revised 7-2-2023

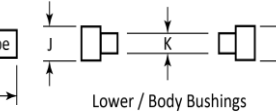
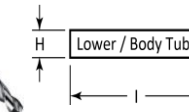
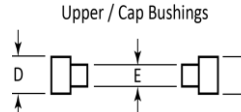
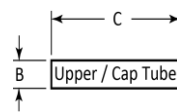
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Tolerances - All Imperial English Units Measurements:

2 - Place Dims +/- .01 & 3 - Place Dims +/- .005



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ALWAYS MEASURE AND RELY ON THE KIT PARTS FOR ACCURACY.

Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		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.
Penn State	Comfort Twist BP - Funline (PSI)	7mm or J	0.268	2.03	0.420	x	0.420	7mm or J	0.268	2.03	0.420	x	0.331
Penn State	Comfort Twist BP - No Press Assy. (PSI)	19/64 or 7.5mm	0.281	2.03	0.420	?	0.420	19/64 or 7.5mm	0.281	1.96	0.420	?	0.331
Penn State	Comfort Twist BP or Click Pencil (PSI)	7mm or J	0.268	2.03	0.420	x	0.420	7mm or J	0.268	2.03	0.420	x	0.331
Penn State	Compson Click BP (PSI)	3/8 or 9.5mm	0.368	2.94	0.440	0.345	0.456	x	x	x	x	x	x
Penn State	Concava Twist BP (PSI)	7mm or J	0.268	1.69	0.520	x	0.520	7mm or J	0.268	2.25	0.450	x	0.331
Penn State	Contour Twist BP (PSI)	3/8 or 9.5mm	0.368	2.91	0.431	0.345	0.505	x	x	x	x	x	x
Penn State	Cortona Twist BP (PSI)	8mm or O	0.311	2.99	0.417	0.286	0.417	x	x	x	x	x	x
Penn State	Cortona Twist BP with Stylus (PSI)	8mm or O	0.311	2.99	0.417	0.286	0.417	x	x	x	x	x	x
Penn State	Cosmetic Brush (PSI)	Brush	x	x	x	x	x	3/4 or 19mm	x	2.00 or 3.00	x	x	x
Penn State	Cosmopolitan Twist BP (PSI)	3/8 or 9.5mm	0.368	3.19	0.466	0.345	0.466	x	x	x	x	x	x
Penn State	Cowboy - Western Twist BP (PSI)	8mm or O	0.311	1.70	0.600	0.286	0.506	8mm or O	0.311	1.42	0.506	0.286	0.506
Penn State	Credit Card Twist BP - Mini (PSI)	7mm or J	0.268	1.50	0.331	x	0.331	7mm or J	0.268	1.50	0.331	x	0.331
Penn State	Crochet Hook Set - Interchangeable (PSI)	8mm or O	0.311	3.15	0.430	0.286	0.375	Sewing	x	x	x	x	x
Penn State	Crochet Hook Set - Necklace (PSI)	8mm or O	0.311	3.13	0.430	0.286	0.430	Sewing	x	x	x	x	x
Penn State	Crown Jewel Twist BP - Royal (PSI)	11/32 or 8.8mm	0.338	3.13	0.420	0.316	0.420	x	x	x	x	x	x
Penn State	Curvado Twist BP (PSI)	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
Penn State	Designer Filigree Twist BP (PSI)	7mm or J	0.268	2.13	?	x	?	7mm or J	0.268	2.38	?	x	?
Penn State	Designer NT Screw Cap RB or FP (PSI)	PKMONT-SD3	?	1.97	0.400	0.330 & 0.290	0.520	PKMONT-SD3	?	2.94	0.440	0.350	0.350



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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Designer NT Twist BP - Mini (PSI)	Large Sized BP Pens	2	PKT7-10 (10 inch)	PKMONT2BU and PKMBUSH3
Penn State	Designer NT Twist BP - Premium (PSI)	Large Sized BP Pens	2	PKT8-8 (10 inch)	PKMONTPRBU
Penn State	Designer NT Twist BP (PSI)	Large Sized BP Pens	2	PKT7-10 (10 inch)	PKMONT2BU
Penn State	Designer NT Twist Pencil (PSI)	Large Sized Pencils	2	PKT8-8 (10 inch)	PKMONT3BU
Penn State	Designer Screw Cap RB or FP - Elite (PSI)	Large Sized RB or FP Pens	3	x	PKMONTBU3 (version 1)
Penn State	Designer Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	x	PKMONTBU3 (version 1)
Penn State	Designer Twist BP - Funline (PSI)	Large Sized BP Pens	2	MONTTUBE5 or PKT7-10 (10 inch)	PKMONTBU
Penn State	Designer Twist BP - Mini (PSI)	Large Sized BP Pens	2	PKT7-10 (10 inch)	PKMONTBU2 (Step Drill)
Penn State	Designer Twist BP - Premium (PSI)	Large Sized BP Pens	2	PKT8-8 (10 inch)	PKMONTBU5
Penn State	Designer Twist BP - Stealth (PSI)	Large Sized BP Pens	2	MONTTUBE5 or PKT7-10 (10 inch)	PKMONTBU
Penn State	Designer Twist BP (PSI)	Large Sized BP Pens	2	MONTTUBE5 or PKT7-10 (10 inch)	PKMONTBU
Penn State	Designer Twist Pencil (PSI)	Large Sized Pencils	2	PKT8-8 (10 inch)	PKMONTBU4
Penn State	Desk Funnel - Universal Fixed (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Desk Funnel - Universal Swivel (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Desk Pen and Funnel (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Detachable Necklace BP (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Devin Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT10-6 (10 inch)	PK10BUSH3
Penn State	Disc Stylus Twist BP (PSI)	Medium Sized BP Pens with Stylus	2	PKT7-10 (10 inch)	PKDSTYBU



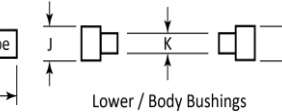
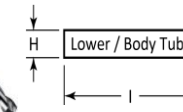
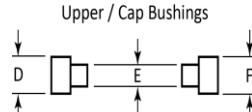
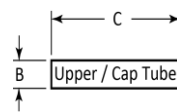
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Designer NT Twist BP - Mini (PSI)	7mm or J	0.268	1.50	0.330	x	0.522	7mm or J	0.268	1.69	0.420	x	0.330
Penn State	Designer NT Twist BP - Premium (PSI)	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
Penn State	Designer NT Twist BP (PSI)	7mm or J	0.268	2.03	0.407	x	0.522	7mm or J	0.268	2.38	0.420	x	0.358
Penn State	Designer NT Twist Pencil (PSI)	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
Penn State	Designer Screw Cap RB or FP - Elite (PSI)	PKMONT-SD3 (2 Step)	?	2.11	0.406	0.335 & 0.395	0.520	PKMONT-SD3 (3 Step)	?	2.95	0.445	0.352	0.350
Penn State	Designer Screw Cap RB or FP (PSI)	PKMONT-SD3 (2 Step)	?	2.11	0.406	0.335 & 0.395	0.520	PKMONT-SD3 (3 Step)	?	2.95	0.445	0.352	0.350
Penn State	Designer Twist BP - Funline (PSI)	7mm or J	0.268	2.13	0.407	x	0.522	7mm or J	0.268	2.38	0.420	x	0.357
Penn State	Designer Twist BP - Mini (PSI)	7mm or J	0.268	2.03	0.331	x	0.522	7mm or J	0.268	2.59	0.420	x	0.331
Penn State	Designer Twist BP - Premium (PSI)	8mm or O	0.311	2.13	0.415	0.286	0.522	8mm or O	0.311	2.38	0.425	0.286	0.368
Penn State	Designer Twist BP - Stealth (PSI)	7mm or J	0.268	2.13	0.407	x	0.522	7mm or J	0.268	2.38	0.420	x	0.357
Penn State	Designer Twist BP (PSI)	7mm or J	0.268	2.13	0.407	x	0.522	7mm or J	0.268	2.38	0.420	x	0.357
Penn State	Designer Twist Pencil (PSI)	8mm or O	0.311	2.09	0.400	0.286	0.522	8mm or O	0.311	2.36	0.400	0.286	0.358
Penn State	Desk Funnel - Universal Fixed (PSI)	9/16 or 14.3mm	x	1.00 to 3.00	x	x	x	x	x	x	x	x	x
Penn State	Desk Funnel - Universal Swivel (PSI)	9/32 & 5/32	x	1.00 to 3.00	x	x	x	x	x	x	x	x	x
Penn State	Desk Pen and Funnel (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Detachable Necklace BP (PSI)	7mm or J	0.268	1.63	0.331	x	0.331	7mm or J	0.268	1.63	0.331	x	0.331
Penn State	Devin Click BP (PSI)	10mm or 25/64	0.385	3.15	0.450	0.357	0.450	x	x	x	x	x	x
Penn State	Disc Stylus Twist BP (PSI)	7mm or J	0.268	1.46	0.420	x	0.420	7mm or J	0.268	2.13	0.420	x	0.420



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Typical Mandrel Dia. Sizes
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 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Diva Charm Twist BP - No Press Assy. (PSI)	Ornate Medium Sized Single Tube BP Pens	1	MCM-EXTU or PKT10-6 (10 inch)	PKCHPENBU
Penn State	Diva Charm Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKCHPENTU or PKT38-8 (10 inch)	PKCHPENBU
Penn State	Dog Click BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Dragon Screw Cap RB or FP (PSI)	Ornate Extra Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKDRRBU
Penn State	Dragon Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKDRABU
Penn State	Duchess - Mini (PSI)	Medium Sized Single Tube BP Pens	1	PKDUNTU or PKT7-10 (10 inch)	PKCFBUSH
Penn State	Duchess Necklace Twist BP - Mini (PSI)	Medium Sized Single Tube BP Pens	2	PKDUNTU or PKT7-10 (10 inch)	PKCFBUSH
Penn State	Duchess Twist BP (PSI)	Medium Sized Single Tube BP Pens	2	PKDUNTU or PKT7-10 (10 inch)	PKCFBUSH
Penn State	Dura Click EDC BP - Every Day Carry (PSI)	Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKSPCL3BU
Penn State	Dura Click EDC BP - Every Day Carry Slim (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKDUSLIMBU
Penn State	Dura Click EDC Pencil - Every Day Carry (PSI)	Medium Sized Single Tube Pencil	1	PKT8-8 (10 inch)	PKSPCL3BU
Penn State	Every Day Classic Click BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKSPCL3BU
Penn State	Executive Magnetic Cap RB or FP (PSI)	Large Style RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKEXECRBU
Penn State	Executive Twist BP - No Press Assy. (PSI)	Medium Sized Single Tube BP Pens	1	MCM-EXTU or PKT10-6 (10 inch)	PKEXECBU
Penn State	Executive Twist BP and Pencil .7mm (PSI)	Medium Sized Single Tube BP Pens and Pencils	1	PKT38-8 (10 inch)	PKEXECBU



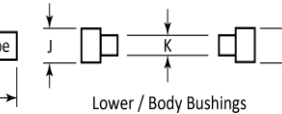
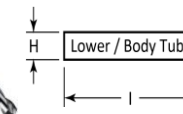
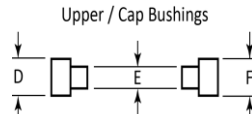
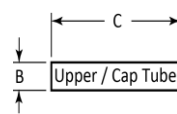
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Penn State	Diva Charm Twist BP - No Press Assy. (PSI)	10mm or 25/64	0.385	2.13	0.445	0.357	0.445	x	x	x	x	x	x
Penn State	Diva Charm Twist BP (PSI)	3/8 or 9.5mm	0.368	2.13	0.445	0.345	0.445	x	x	x	x	x	x
Penn State	Dog Click BP (PSI)	3/8 or 9.5mm	0.368	3.31	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Dragon Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.67	0.585	0.460	0.652	10.5mm or Z	0.400	2.09	0.638	0.376	0.638
Penn State	Dragon Twist BP (PSI)	3/8 or 9.5mm	0.368	1.60	0.580	0.345	0.540	3/8 or 9.5mm	0.368	1.45	0.540	0.345	0.540
Penn State	Duchess - Mini (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	1.69	0.420	x	0.331
Penn State	Duchess Necklace Twist BP - Mini (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	1.69	0.420	x	0.331
Penn State	Duchess Twist BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	2.44	0.420	x	0.331
Penn State	Dura Click EDC BP - Every Day Carry (PSI)	8mm or O	0.311	2.77	0.435	0.286	0.435	x	x	x	x	x	x
Penn State	Dura Click EDC BP - Every Day Carry Slim (PSI)	7mm or J	0.268	1.65	0.350	x	0.350	7mm or J	0.268	2.04	0.350	x	0.350
Penn State	Dura Click EDC Pencil - Every Day Carry (PSI)	8mm or O	0.311	2.77	0.435	0.286	0.435	x	x	x	x	x	x
Penn State	Every Day Classic Click BP (PSI)	8mm or O	0.311	3.12	0.435	0.286	0.435	x	x	x	x	x	x
Penn State	Executive Magnetic Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.60	0.545	0.460	0.545	10.5mm or Z	0.400	2.52	0.480	0.376	0.480
Penn State	Executive Twist BP - No Press Assy. (PSI)	10mm or 25/64	0.385	2.84	0.420	0.357	0.420	x	x	x	x	x	x
Penn State	Executive Twist BP and Pencil .7mm (PSI)	3/8 or 9.5mm	0.368	2.88	0.420	0.345	0.420	x	x	x	x	x	x



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Penn State	Executive Twist BP with Stylus Tip (PSI)	Medium Sized Single Tube BP Pens and Pencils	1	PKT38-8 (10 inch)	PKEXECBU
Penn State	EZ Grasp Gelwriter Click BP (PSI)	Extra Large Sized BP Pens	2	PKT8-8 (10 inch)	PKEZBU
Penn State	EZ Grip Click Pencil (PSI)	Extra Large Sized BP Pencil	2	PKT8-8 (10 inch)	PKEZBU
Penn State	Faith Hope Love Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKHPRBU
Penn State	Faith Hope Love Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT8-8 (10 inch)	PKHPENBU
Penn State	Falcon Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKCP3000BU
Penn State	Fancy Necklace Click Closure BP (PSI)	Ornate Large Sized BP Pens	3	PKSPCL2TU & PKT8-8 (10 inch)	PKMAGNECBU
Penn State	Federal Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKFEDBU
Penn State	Fiber Tip Pen (PSI)	Large Sized Single Tube Pens	1	PKT10-6 (10 inch)	PKCP7000BU
Penn State	Fidget Screw Cap RB (PSI)	Large Sized RB Pens	3	PKT38-8 (10 inch)	PKFIDBU
Penn State	Fidget Twist BP (PSI)	Large Sized Single Tube BP Pens	1	PKT38-8	PKFIDBBU
Penn State	Filibella Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKFPENTU or PKT8-8 & PKT7-10	PKFPENBU
Penn State	Filigree Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKFILBU
Penn State	Firefighter Push and Lock BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT10-6 (10 inch)	PKFIREBU
Penn State	Fishing Lure - Bucktail (PSI)	Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Fishing Lure - Torpedo (PSI)	Large No Tubes or Bushings Misc. Items	0	x	x



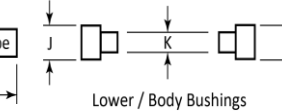
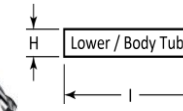
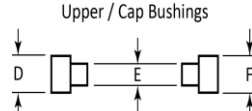
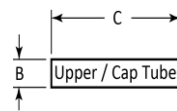
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Executive Twist BP with Stylus Tip (PSI)	3/8 or 9.5mm	0.368	2.88	0.420	0.345	0.420	x	x	x	x	x	x
Penn State	EZ Grasp Gelwriter Click BP (PSI)	8mm or O	0.311	2.75	0.625	0.286	0.425	8mm or O	0.311	1.31	0.425	0.286	0.425
Penn State	EZ Grip Click Pencil (PSI)	8mm or O	0.311	2.75	0.625	0.286	0.425	8mm or O	0.311	1.31	0.425	0.286	0.425
Penn State	Faith Hope Love Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.73	0.555	0.460	0.610	10.5mm or Z	0.400	2.28	0.520	0.376	0.520
Penn State	Faith Hope Love Twist BP (PSI)	8mm or O	0.311	1.75	0.550	0.286	0.500	8mm or O	0.311	2.13	0.500	0.286	0.430
Penn State	Falcon Twist BP (PSI)	3/8 or 9.5mm	0.368	2.98	0.466	0.345	0.466	x	x	x	x	x	x
Penn State	Fancy Necklace Click Closure BP (PSI)	7/16 or 11.2mm	0.415	1.37	0.600	0.389	0.600	8mm or O	0.311	1.90	0.500	0.286	0.375
Penn State	Federal Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.85	0.483	0.345	0.429
Penn State	Fiber Tip Pen (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	3.00	0.525	0.357	0.525
Penn State	Fidget Screw Cap RB (PSI)	3/8 or 9.5mm	0.368	3.21	0.534	0.345	0.534	x	x	x	x	x	x
Penn State	Fidget Twist BP (PSI)	3/8 or 9.5mm	0.368	3.22	0.522	0.343	0.522	x	x	x	x	x	x
Penn State	Filibella Twist BP (PSI)	8mm or O	0.311	0.98	0.410	0.286	0.530	7mm or J	0.268	2.25	0.517	x	0.350
Penn State	Filigree Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.36	0.512	0.345	0.455
Penn State	Firefighter Push and Lock BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.45	0.490	0.357	0.468
Penn State	Fishing Lure - Bucktail (PSI)	x	x	6.00	x	x	x	x	?	x	x	x	x
Penn State	Fishing Lure - Torpedo (PSI)	x	x	6.00	x	x	x	x	?	x	x	x	x



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Kit Style 0 are Misc. Kit

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 Modifying Replacement
 Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Fishing Rod (Batson)	Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Flash Drive Twist BP - Mini (PSI)	Large Sized BP Pens and Specialty Items	2	PKT7-10 (10 inch)	PKFCPENBU
Penn State	Flashlight - LED Ultrabright (PSI)	Large Sized Specialty Items	0	PKT125-6 (10 inch)	PKPLI-BU
Penn State	Flashlight - LED Ultrabright V2 (PSI)	Large Sized Specialty Items	0	PKT125-6 (10 inch)	PKPLI-BU
Penn State	Flashlight - Penlight Click On (PSI)	Large Sized Specialty Items	0	PKT125-6 (10 inch)	PKPLI-BU
Penn State	Flashlight - Penlight Press On (PSI)	Large Sized Specialty Items	0	PKT125-6 (10 inch)	PKPLI-BU
Penn State	Flashlight - Premium (PSI)	Large Sized Specialty Items	0	PKT125-6 (10 inch)	PKPLI-BU
Penn State	Fly Fishing Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKFLYRB
Penn State	Fly Fishing Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKPPENBU
Penn State	Football Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT10-6 (10 inch)	PKFBALLBU
Penn State	Footprints in the Sand Twist BP	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8	PKFSANDBU
Penn State	Game Call - Deer Grunt (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALLBU
Penn State	Game Call - Distressed Rabbit (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Game Call - Doe Bleat (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Game Call - Duck (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Game Call - Elk (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Game Call - Elk Cow - Bite Style (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU



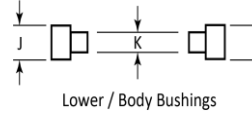
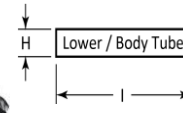
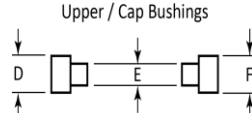
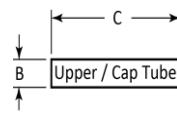
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Fishing Rod (Batson)	?	x	?	x	x	x	?	x	?	x	x	x
Penn State	Flash Drive Twist BP - Mini (PSI)	7mm or J	0.268	1.19	?	x	?	7mm or J	0.268	1.19	?	x	?
Penn State	Flashlight - LED Ultrabright (PSI)	12.5mm or 0.492	0.483	2.13	0.554	0.460	0.554	12.5mm or 0.492	0.483	2.13	0.554	0.460	0.554
Penn State	Flashlight - LED Ultrabright V2 (PSI)	12.5mm or 0.492	0.483	2.13	0.544	0.460	0.544	12.5mm or 0.492	0.483	2.13	0.544	0.460	0.544
Penn State	Flashlight - Penlight Click On (PSI)	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554
Penn State	Flashlight - Penlight Press On (PSI)	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554
Penn State	Flashlight - Premium (PSI)	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554	12.5mm or 0.492	0.483	1.88	0.554	0.460	0.554
Penn State	Fly Fishing Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.20	0.568	0.460	0.583	10.5mm or Z	0.400	2.60	0.517	0.376	0.517
Penn State	Fly Fishing Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.92	0.480	0.345	0.480
Penn State	Football Twist BP (PSI)	10mm or 25/64	0.385	1.87	0.515	0.357	0.502	10mm or 25/64	0.385	1.95	0.502	0.357	0.486
Penn State	Footprints in the Sand Twist BP	3/8 or 9.5mm	0.368	2.23	0.516	0.343	0.461	x	x	x	x	x	x
Penn State	Game Call - Deer Grunt (PSI)	5/8 & 27/32	x	4.00	1.000	0.500	1.000	x	x	x	x	x	x
Penn State	Game Call - Distressed Rabbit (PSI)	5/8 or 16mm	x	4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Game Call - Doe Bleat (PSI)	1/2 & 5/8	x	4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Game Call - Duck (PSI)	5/8 or 16mm	x	4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Game Call - Elk (PSI)	5/8 & 7/8	x	4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Game Call - Elk Cow - Bite Style (PSI)	21/32 or 16.7mm	x	3.50 to 4.00	1.000	0.375	1.000	x	x	x	x	x	x



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 A - .247 Dia. B - .291 Dia.
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Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Game Call - Goose (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Game Call - Predator (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALLBU
Penn State	Game Call - Squirrel (PSI)	Extra Large No Tube Misc. Items	0	x	PKGCALL2BU
Penn State	Gatsby Click BP - Sierra Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKGAPENCTU	PKGABU
Penn State	Gatsby Click Pencil .7mm - Sierra Styled (PSI)	Medium Sized Single Tube Pencils	1	PKGAPENCTU	PKGABU
Penn State	Gatsby Grande Twist BP - Sierra Styled (PSI)	Large Sized Single Tube BP Pens	1	PKGAPENFTU or PKT38-8 (10 inch)	PKGAFBU
Penn State	Gatsby Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKEXECRBU
Penn State	Gatsby Twist BP - Sierra Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKGATU	PKGABU
Penn State	Gatsby Twist BP (V2) - Sierra Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKGATU	PKGABU
Penn State	Gearshift BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Gemini Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKGEMBU
Penn State	Gemini Click Pencil .7mm (PSI)	Medium Sized Single Tube Pencils	1	PKT38-8 (10 inch)	PKGEMBU
Penn State	Golf Click Pencil - Fore Real (PSI)	Slim Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKGOLFBU
Penn State	Gothica Twist BP (PSI)	Ornate Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKVICBU
Penn State	Graduate Magnetic RB or FP (PSI)	Large Sized RB or FP Pens	3	PKGRAD2TU or PKMAJJRTU or PKT125-6 & PKT105-6	PKGRAD2BU
Penn State	Graduate Post Twist BP (PSI)	Large Sized BP Pens	2	PKGRAPTU or PKT10-6 & PKT8-8	PKGRAPBU
Penn State	Graduate Twist BP (PSI)	Large Sized BP Pens	2	PKGRADTU or PKT38-8 & PKT7-10	PKGRADBU



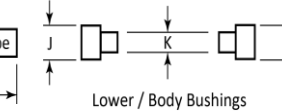
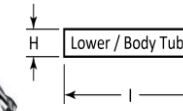
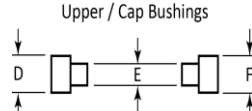
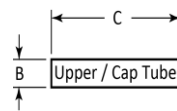
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Game Call - Goose (PSI)	5/8 & 7/8	x	4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Game Call - Predator (PSI)	39/64 or 15.5mm	x	3.50	1.000	0.500	1.000	x	x	x	x	x	x
Penn State	Game Call - Squirrel (PSI)	1/2 or 12.6mm	x	2.50 to 4.00	1.000	0.375	1.000	x	x	x	x	x	x
Penn State	Gatsby Click BP - Sierra Styled (PSI)	27/64 or 10.7mm	0.410	2.25	0.474	0.381	0.474	x	x	x	x	x	x
Penn State	Gatsby Click Pencil .7mm - Sierra Styled (PSI)	27/64 or 10.7mm	0.410	2.25	0.474	0.381	0.474	x	x	x	x	x	x
Penn State	Gatsby Grande Twist BP - Sierra Styled (PSI)	3/8 or 9.5mm	0.368	2.19	0.525	0.345	0.525	x	x	x	x	x	x
Penn State	Gatsby Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.69	0.545	0.460	0.545	10.5mm or Z	0.400	2.36	0.480	0.376	0.480
Penn State	Gatsby Twist BP - Sierra Styled (PSI)	27/64 or 10.7mm	0.410	2.22	0.474	0.381	0.474	x	x	x	x	x	x
Penn State	Gatsby Twist BP (V2) - Sierra Styled (PSI)	27/64 or 10.7mm	0.410	2.22	0.474	0.381	0.474	x	x	x	x	x	x
Penn State	Gearshift BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.22	0.495	0.345	0.495
Penn State	Gemini Click BP (PSI)	3/8 or 9.5mm	0.368	2.81	0.475	0.345	0.475	x	x	x	x	x	x
Penn State	Gemini Click Pencil .7mm (PSI)	3/8 or 9.5mm	0.368	2.81	0.475	0.345	0.475	x	x	x	x	x	x
Penn State	Golf Click Pencil - Fore Real (PSI)	8mm or O	0.311	2.97	0.367	0.286	0.367	x	x	x	x	x	x
Penn State	Gothica Twist BP (PSI)	3/8 or 9.5mm	0.368	3.31	0.550	0.345	0.550	x	x	x	x	x	x
Penn State	Graduate Magnetic RB or FP (PSI)	12.5mm or 0.492	0.483	1.69	0.551	0.460	0.575	10.5mm or Z	0.400	3.00	0.516	0.376	0.516
Penn State	Graduate Post Twist BP (PSI)	10mm 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
Penn State	Graduate Twist BP (PSI)	3/8 or 9.5mm	0.368	1.75	0.430	0.345	0.520	7mm or J	0.268	2.44	0.430	x	0.323



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Penn State	Great Outdoors Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	PKGREATBU
Penn State	Grenade Click BP (PSI)	Ornate Extra Large Sized Single Tube BP Pens	1	PKT10-6 (10 inch)	PKGRENBU
Penn State	Groove Click BP (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Groove Twist BP (PSI)	Slim Sized BP Pens	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Guardian Click BP (PSI)	Extra Large Sized Single Tube BP Pens	1	PKGDTU or PKT8-8 (10 inch)	PKGDPENBU
Penn State	Guardian Jr Click BP (PSI)	Large Sized Single Tube BP Pens	1	PKGDTU or PKT8-8 (10 inch)	PKGDJRBU
Penn State	Guardian Snap Cap RB or FP (PSI)	Extra Large Sized RB or FP Pens	3	PKGDRBTU	PKGDRBBU
Penn State	Hockey Twist BP	Ornate Large Sized Tube BP Pens	2	PKT38-8	PKHOCKBU
Penn State	Honeycomb Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	PKHCBU
Penn State	Hourglass Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT8-8 (10 inch)	PKHGBU
Penn State	Icon Twist BIC BP (PSI)	Slim Sized BP Pens	3	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Jet Airline Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKLINERBU
Penn State	Key Ring - Atomizer (PSI)	Extra Large Sized Misc. Items	0	?	PKATOMKCBU
Penn State	Key Ring - Auxiliary Adaptor (PSI)	Slim Sized Single Tube Misc. Items	0	PKT8-8 (10 inch)	PKATHNBU
Penn State	Key Ring - Bottle Opener (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKABBU
Penn State	Key Ring - Cigar Punch (PSI)	Medium Sized Single Tube Misc. Items	0	PKT10-6 (10 inch)	PKGABU
Penn State	Key Ring - Detachable - Bolt Action (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKDET2BU
Penn State	Key Ring - Detachable - Quick Release (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKCFBUSH



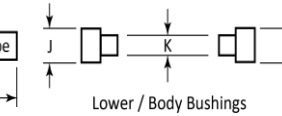
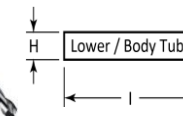
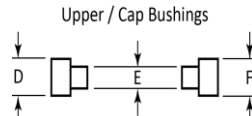
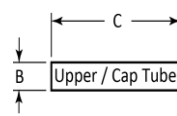
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Great Outdoors Twist BP (PSI)	3/8 or 9.5mm	0.368	1.60	0.506	0.345	0.487	3/8 or 9.5mm	0.368	2.00	0.487	0.345	0.467
Penn State	Grenade Click BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.64	0.650	0.357	0.570
Penn State	Groove Click BP (PSI)	7mm or J	0.268	2.07	0.331	x	0.331	7mm or J	0.268	2.07	0.331	x	0.331
Penn State	Groove Twist BP (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Guardian Click BP (PSI)	8mm or O	0.311	2.69	0.625	0.286	0.625	x	x	x	x	x	x
Penn State	Guardian Jr Click BP (PSI)	8mm or O	0.311	2.69	0.555	0.286	0.555	x	x	x	x	x	x
Penn State	Guardian Snap Cap RB or FP (PSI)	9/16 or 14.3mm	0.548	1.38	0.625	0.535	0.625	27/64 or 10.7mm	0.410	1.78	0.530	0.381	0.530
Penn State	Hockey Twist BP	3/8 or 9.5mm	0.368	1.74	0.504	0.343	0.510	3/8 or 9.5mm	0.368	1.79	0.510	0.343	0.508
Penn State	Honeycomb Twist BP (PSI)	3/8 or 9.5mm	0.368	1.86	0.440	0.345	0.498	3/8 or 9.5mm	0.368	1.90	0.440	0.345	0.446
Penn State	Hourglass Twist BP (PSI)	Metal Cap	x	x	x	x	x	8mm or O	0.311	2.28	0.480	0.286	0.356
Penn State	Icon Twist BIC BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	3.13	0.331	x	0.331
Penn State	Jet Airline Twist BP (PSI)	3/8 or 9.5mm	0.368	3.54	0.488	0.343	0.493	x	x	x	x	x	x
Penn State	Key Ring - Atomizer (PSI)	1/2 or 12.6mm	0.483	?	0.615	0.458	0.615	x	x	x	x	x	x
Penn State	Key Ring - Auxiliary Adaptor (PSI)	8mm or O	0.311	1.06	0.373	0.286	0.373	x	x	x	x	x	x
Penn State	Key Ring - Bottle Opener (PSI)	7mm or J	0.268	1.32	0.457	x	0.457	Bottle Opener	x	x	x	x	x
Penn State	Key Ring - Cigar Punch (PSI)	7mm or J	0.268	1.69	0.474	x	0.474	Metal Cap	x	x	x	x	x
Penn State	Key Ring - Detachable - Bolt Action (PSI)	7mm or J	0.268	1.38	0.380	x	0.375	x	x	x	x	x	x
Penn State	Key Ring - Detachable - Quick Release (PSI)	7mm or J	0.268	2.00	0.420	x	0.331	x	x	x	x	x	x



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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Key Ring - Detachable (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Key Ring - Lip Balm Holder (PSI)	Extra Large Sized Single Tube Misc. Items	0	x	PKLBALMBU
Penn State	Key Ring - Mini Bolt Action BP (PSI)	Slim Sized Single Tube Bullet BP Pens	1	PKT7-10 (10 inch)	PKCPMINBU
Penn State	Key Ring - Mini BP (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Key Ring - Mini LED Penlight (PSI)	Extra Large Sized Specialty Items	0	x	PKPLI2-BU
Penn State	Key Ring - Mini Screwdriver (PSI)	Medium Sized Single Tube Specialty Items	0	PKT10-6 (10 inch)	PK10BUSH3
Penn State	Key Ring - Secret Compartment & Whistle (PSI)	Medium Sized Single Tube Misc. Items	0	PKT10-6 (10 inch)	PK10BUSH3
Penn State	Key Ring - Secret Compartment Pill Box (PSI)	Extra Large Sized Single Tube Misc. Items	0	PKCP6000TU (Modify)	PKSEPILLBU
Penn State	Key Ring - Whistle (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Key Ring (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Kitchenware - BBQ Grill Tools (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	3/8-16 Threaded Mandral & 3/8-16 Tap
Penn State	Kitchenware - Bottle Opener - 2 in 1 with Corkscrew (PSI)	Large Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	BS25XBU
Penn State	Kitchenware - Bottle Opener - Disc (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Bottle Opener - Heavy Duty (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	3/8-16 Threaded Mandral & 3/8-16 Tap
Penn State	Kitchenware - Bottle Opener (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKRAHANBU



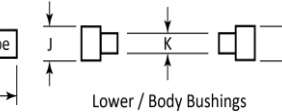
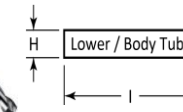
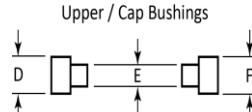
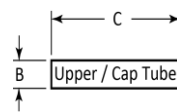
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Penn State	Key Ring - Detachable (PSI)	7mm or J	0.268	1.38	0.331	x	0.331	x	x	x	x	x	x
Penn State	Key Ring - Lip Balm Holder (PSI)	Metal Cap	x	x	x	x	x	45/64 or 18mm	0.681	1.62 to 1.69	0.845	0.699	0.845
Penn State	Key Ring - Mini Bolt Action BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	1.64	0.390	x	0.390
Penn State	Key Ring - Mini BP (PSI)	7mm or J	0.268	1.25	0.331	x	0.331	7mm or J	0.268	1.25	0.331	x	0.331
Penn State	Key Ring - Mini LED Penlight (PSI)	9/16 or 14.3mm	0.548	?	0.628	0.535	0.628	x	x	x	x	x	x
Penn State	Key Ring - Mini Screwdriver (PSI)	10mm or 25/64	0.385	2.00	0.450	0.357	0.450	x	x	x	x	x	x
Penn State	Key Ring - Secret Compartment & Whistle (PSI)	10mm or 25/64	0.385	2.42	0.450	0.357	0.450	x	x	x	x	x	x
Penn State	Key Ring - Secret Compartment Pill Box (PSI)	9/16 or 14.3mm	0.548	1.50	0.625	0.535	0.625	x	x	x	x	x	x
Penn State	Key Ring - Whistle (PSI)	7mm or J	0.268	1.38	0.331	x	0.331	x	x	x	x	x	x
Penn State	Key Ring (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	x	x	x	x	x	x
Penn State	Kitchenware - BBQ Grill Tools (PSI)	Metal Tool	x	x	x	x	x	11/32 or 8.8mm & 10mm or 25/64	2.50	6.00 & 7.00	x	x	x
Penn State	Kitchenware - Bottle Opener - 2 in 1 with Corkscrew (PSI)	Metal Opener	x	x	x	x	x	15/32 or 12mm	0.450	2.75	0.600	0.427	0.600
Penn State	Kitchenware - Bottle Opener - Disc (PSI)	Metal Opener	x	x	x	x	x	1-37/64 or 40mm	x	x	X	x	X
Penn State	Kitchenware - Bottle Opener - Heavy Duty (PSI)	Metal Opener	x	x	x	x	x	23/64 or 9mm	1.50	4.00 to 6.00	x	x	x
Penn State	Kitchenware - Bottle Opener (PSI)	Metal Opener	x	x	x	x	x	7mm or J	0.268	2.75	0.400	x	0.400



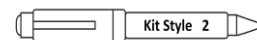
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Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Kitchenware - Bottle Opener (Ruth Niles Styles)	Extra Large No Tubes or Bushings Misc. Items	0	x	3/8-16 Threaded Mandral & 3/8-16 Tap
Penn State	Kitchenware - Bottle Stoppers (Ruth Niles Styles)	Extra Large No Tubes or Bushings Misc. Items	0	x	Mandrel 3/8-16 Tap
Penn State	Kitchenware - Bottle Stoppers - Gear Shift (PSI)	Extra Large Sized Single Tube Misc. Items	0	x	BS11GSBU
Penn State	Kitchenware - Bottle Stoppers - Shotgun Shell (PSI)	Extra Large Sized Single Tube Misc. Items	0	x	BS12GABU
Penn State	Kitchenware - Bottle Stoppers - Standard Styles (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	Mandrel 3/8-16 Tap
Penn State	Kitchenware - Bottle Stoppers - With Cork & Pouring Spout (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Bottle Stoppers - With Corkscrew (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Candle Holder (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKBULLPENBU
Penn State	Kitchenware - Candlestick (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Cheese Cutlery (Hors d'Oeuvres)Tools (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Cheese Knife or Fork - Deluxe (PSI)	Medium Sized Single Tube Specialty Items	0	PKT7-10 (10 inch)	PKDWBU
Penn State	Kitchenware - Coffee Grinder - Antique Style (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Coffee Scoop (PSI)	Large Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKCSCOOPBU
Penn State	Kitchenware - Dessert Spoon Set (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Kitchenware - Dinner Bell (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMONTBU
Penn State	Kitchenware - Espresso Coffee Tamper (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x



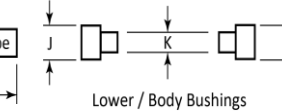
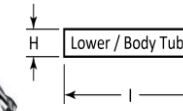
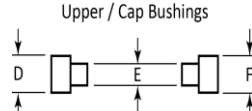
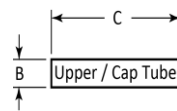
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Penn State	Kitchenware - Bottle Opener (Ruth Niles Styles)	Metal Opener	x	x	x	x	x	5/16 or 11/32	1.50	4.50 to 5.00	x	x	x
Penn State	Kitchenware - Bottle Stoppers (Ruth Niles Styles)	5/16 or 8mm	x	1.50 to 4.00	x	x	x	Stopper	x	x	x	x	x
Penn State	Kitchenware - Bottle Stoppers - Gear Shift (PSI)	7mm or J	0.268	1.38	0.875	x	0.620	Stopper	x	x	x	x	x
Penn State	Kitchenware - Bottle Stoppers - Shotgun Shell (PSI)	7mm or J	0.268	2.06	0.930	x	0.802	Stopper	x	x	x	x	x
Penn State	Kitchenware - Bottle Stoppers - Standard Styles (PSI)	5/16 or 8mm	x	1.50 to 4.00	x	x	x	Stopper	x	x	x	x	x
Penn State	Kitchenware - Bottle Stoppers - With Cork & Pouring Spout (PSI)	1.00 or 25.4mm	x	2.50 to 3.00	x	x	x	Stopper	x	x	x	x	x
Penn State	Kitchenware - Bottle Stoppers - With Corkscrew (PSI)	1.00 or 25.4mm	x	1.50 to 4.00	x	x	x	Stopper	x	x	x	x	x
Penn State	Kitchenware - Candle Holder (PSI)	Candle Holder	x	x	x	x	x	7mm or J	0.268	2.00	0.360	x	0.625
Penn State	Kitchenware - Candlestick (PSI)	x	x	6.00	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Cheese Cutlery (Hors d'Oeuvres)Tools (PSI)	Metal Tool	x	x	x	x	x	1/4 or 6.5mm	x	4.00 to 6.00	X	x	X
Penn State	Kitchenware - Cheese Knife or Fork - Deluxe (PSI)	Metal Knife or Fork	x	x	x	x	x	7mm or J	0.268	2.38	0.435	x	0.435
Penn State	Kitchenware - Coffee Grinder - Antique Style (PSI)	Grinder Top	x	x	x	x	x	2.00 or 50.8mm	x	x	x	x	x
Penn State	Kitchenware - Coffee Scoop (PSI)	Metal Scoop	x	x	x	x	x	7mm or J	0.268	2.91	0.550	x	0.550
Penn State	Kitchenware - Dessert Spoon Set (PSI)	Metal Spoon	x	x	x	x	x	7mm or J	0.268	2.50	0.331	x	0.331
Penn State	Kitchenware - Dinner Bell (PSI)	7mm or J	0.268	3.50	0.407	x	0.426	Bell	x	x	x	x	x
Penn State	Kitchenware - Espresso Coffee Tamper (PSI)	1/2 or 12.6mm	x	1.50 to 4.00	x	x	x	Tamper	x	x	x	x	x



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Penn State	Kitchenware - Food Flipper - Pigtail (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Ice Cream Scoop V1 (PSI)	Extra Large No Tube Misc. Items	0	x	PKISCOOP
Penn State	Kitchenware - Ice Cream Scoop V3 - Paddle (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Ice Cream Scoop V4 - Disher (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Ice Cream Scoop V5 (PSI)	Extra Large No Tube Misc. Items	0	x	PKISCOOP5B
Penn State	Kitchenware - Ice Pick (PSI)	Large Sized No Tube Misc. Items	0	x	KIPICKBU
Penn State	Kitchenware - Ice Scoop (PSI)	Extra Large No Tube Misc. Items	0	x	PKICEBU
Penn State	Kitchenware - Mason Jar Lids (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Measuring Cup Set (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKABBU
Penn State	Kitchenware - Measuring Spoon Set (PSI)	Medium Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMSPBU
Penn State	Kitchenware - Meat Pounder or Tenderizer (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Nut Cracker (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Antique Style (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Brass Top (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Easy Elegance (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - EZ Assemble Antique Style (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - EZ Assemble Vintage Style (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Handy 1-Handed (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x



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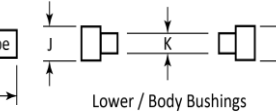
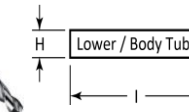
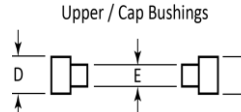
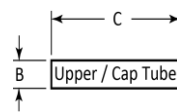
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Kitchenware - Food Flipper - Pigtail (PSI)	Metal Tool	x	x	x	x	x	7mm or J or 1/4	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Ice Cream Scoop V1 (PSI)	Metal Scoop	x	x	x	x	x	7/16 or 11.2mm	x	3.50 to 4.00	0.830	0.432	0.830
Penn State	Kitchenware - Ice Cream Scoop V3 - Paddle (PSI)	Metal Scoop	x	x	x	x	x	10mm or 25/64	x	5.00 to 6.00	0.705	0.357	0.670
Penn State	Kitchenware - Ice Cream Scoop V4 - Disher (PSI)	Metal Scoop	x	x	x	x	x	1/4 or 6.5mm	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Ice Cream Scoop V5 (PSI)	Metal Scoop	x	x	x	x	x	15/32 or 12mm	x	3.94	0.800	0.460	0.800
Penn State	Kitchenware - Ice Pick (PSI)	10.5mm or Z	0.400	3.11	0.747	0.376	0.747	x	x	x	x	x	x
Penn State	Kitchenware - Ice Scoop (PSI)	Metal Scoop	x	x	x	x	x	10mm or 25/64	x	3.25	0.705	0.357	0.670
Penn State	Kitchenware - Mason Jar Lids (PSI)	2-51/64 or 71mm	x	1.00	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Measuring Cup Set (PSI)	Metal Cup	x	x	x	x	x	7mm or J	0.268	3.26	0.457	x	0.457
Penn State	Kitchenware - Measuring Spoon Set (PSI)	Metal Spoon	x	x	x	x	x	7mm or J	0.268	3.23	0.460	x	0.440
Penn State	Kitchenware - Meat Pounder or Tenderizer (PSI)	5/16 or 8mm	x	1.50 to 4.00	x	x	x	Pounder	x	x	x	x	x
Penn State	Kitchenware - Nut Cracker (PSI)	Metal Cracker	x	x	x	x	x	10mm or 25/64	x	4.00 to 5.75	x	x	x
Penn State	Kitchenware - Peppermill - Antique Style (PSI)	Grinder Top	x	x	x	x	x	5/16 & 1.00 & 1.75	x	4.00	x	x	x
Penn State	Kitchenware - Peppermill - Brass Top (PSI)	Grinder Top	x	x	x	x	x	1.06 & 1.50 or 27mm & 28.1mm	x	8.88	x	x	x
Penn State	Kitchenware - Peppermill - Easy Elegance (PSI)	2.06 or 52.4mm	x	3.00	x	x	x	2.06 or 52.4mm	x	2.25	x	x	x
Penn State	Kitchenware - Peppermill - EZ Assemble Antique Style (PSI)	Grinder Top	x	x	x	x	x	1.00 & 1.50 or 25.4mm & 28.1mm	x	3.75	x	x	x
Penn State	Kitchenware - Peppermill - EZ Assemble Vintage Style (PSI)	Grinder Top	x	x	x	x	x	1.00 & 1.50 or 25.4mm & 28.1mm	x	3.75	x	x	x
Penn State	Kitchenware - Peppermill - Handy 1-Handed (PSI)	1.00 or 25.4mm	x	3.81	x	x	x	x	x	x	x	x	x



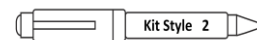
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 Modifying Replacement
 Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Kitchenware - Peppermill - Midi Tabletop (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Mini Mill (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Mini One-Handed (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Mini Tabletop (PSI)	Extra Large No Tube Misc. Items	0	x	PKGRIND7BU
Penn State	Kitchenware - Peppermill - Press Top (PSI)	Extra Large Sized Misc. Items	0	x	PKGRIND8BU
Penn State	Kitchenware - Peppermill - Professional - Deluxe (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Small (PSI)	Extra Large No Tube Misc. Items	0	x	PKGRIND7BU
Penn State	Kitchenware - Peppermill - T-Top (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Peppermill - Upside Down (PSI)	Extra Large No Tube Misc. Items	0	x	PKGRIND7BU
Penn State	Kitchenware - Peppermill - Variable Length Pro Grind (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Pizza Cutter - Deluxe (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Pizza Cutter (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Pizza Spatula - Diagonal (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	Mandrel with 3/8-16 Tap
Penn State	Kitchenware - Pizza Spatula - Diagonal or Rounded (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	Mandrel with 3/8-16 Tap
Penn State	Kitchenware - Potato Masher (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Pumpkin Carving Tool Set (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Refrigerator Magnet (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Salt & Pepper Shaker Set - Wide Mouth (PSI)	Extra Large Sized Single Tube Misc. Items	0	x	PKSANDPBU



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Penn State Kit Bushing & Tube Refs.

Imperial English Units Revised 7-2-2023

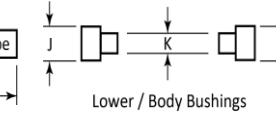
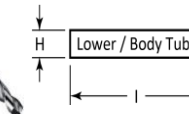
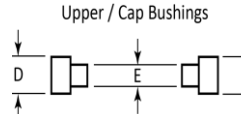
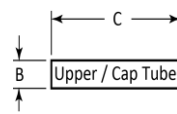
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Penn State	Kitchenware - Peppermill - Midi Tabletop (PSI)	36mm & 1-1/16 & 1-1/2	x	5.75	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Mini Mill (PSI)	21/32 & 1-1/16 & 1-1/2	x	4.00	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Mini One-Handed (PSI)	11/32 & 1-1/16 & 1-1/2	x	4.44	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Mini Tabletop (PSI)	36mm & 1-1/16 & 1-1/2	x	3.25	1.375	1.058	1.375	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Press Top (PSI)	10mm or 25/64	0.385	0.81	0.478	0.357	0.478	9/16 or 14.3mm	0.548	3.00	0.870	0.530	0.870
Penn State	Kitchenware - Peppermill - Professional - Deluxe (PSI)	7mm or J	x	2.03	x	x	x	1.06 & 1.62 or 25.4mm & 41.3mm	x	4.37 to 10.50	x	x	x
Penn State	Kitchenware - Peppermill - Small (PSI)	36mm & 1-1/16 & 1-1/2	x	3.25	1.375	1.058	1.375	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - T-Top (PSI)	1.06 & 1.50 or 27mm & 28.1mm	x	5.13	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Upside Down (PSI)	36mm & 1-1/16 & 1-1/2	x	3.38 or 6.00	1.375	1.058	1.375	x	x	x	x	x	x
Penn State	Kitchenware - Peppermill - Variable Length Pro Grind (PSI)	7/8 & 1-1/16 & 1.5 & 1.75	x	4.00 to 9.00	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Pizza Cutter - Deluxe (PSI)	Metal Cutter	x	x	x	x	x	1/2 or 12.6mm	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Pizza Cutter (PSI)	Metal Cutter	x	x	x	x	x	1/2 or 12.6mm	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Pizza Spatula - Diagonal (PSI)	Metal Spatula	x	x	x	x	x	11/32 or 8.8mm & 10mm or 25/64	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Pizza Spatula - Diagonal or Rounded (PSI)	Metal Spatula	x	x	x	x	x	11/32 or 8.8mm & 10mm or 25/64	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Potato Masher (PSI)	Metal Tool	x	x	x	x	x	5/16 or 10mm or 23/64 or 1/2	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Pumpkin Carving Tool Set (PSI)	Metal Tool	x	x	x	x	x	8mm or O	x	5.00 to 6.00	x	x	x
Penn State	Kitchenware - Refrigerator Magnet (PSI)	1/2 or 12.6mm	x	0.50 to 1.00	x	x	x	x	x	x	x	x	x
Penn State	Kitchenware - Salt & Pepper Shaker Set - Wide Mouth (PSI)	1.00 or 25.4mm	?	2.63	1.125	0.985	1.125	x	x	x	x	x	x



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 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Kitchenware - Salt & Pepper Shaker Set (PSI)	Extra Large Sized Single Tube Misc. Items	0	x	PKSANDPBU
Penn State	Kitchenware - Salt Grinder - Professional - Deluxe (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - Salt Shaker & Peppermill Combo (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Kitchenware - T-Handle Corkscrew (PSI)	Large Sized Misc. Items	2	PKT7-10 (10 inch)	BS6-BU
Penn State	Knights Armor Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Knurl GT Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKKNBU
Penn State	Knurl GT Twist BP with Stylus (PSI)	Medium Sized Single Tube BP Pens with Stylus	1	PKT38-8 (10 inch)	PKKNBU
Penn State	Kole EDC Click BP	Medium Sized Single Tube BP Pens	1	PKT8-8 (10 inch)	PKSRBU
Penn State	Lady Designer Twist BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKMONTLBU
Penn State	Letter Opener - 30 Caliber Bullet Cartridge (PSI)	Medium Sized Single Tube Bullet Letter Openers	0	PKT38-8 (10 inch)	PKCP3000BU
Penn State	Letter Opener - Antique Style (PSI)	Large Sized No Tubes Letter Openers	0	x	x
Penn State	Letter Opener - Classic (PSI)	Medium Sized Single Tube Letter Openers	0	PKT8-8 (10 inch)	PKPARKBU
Penn State	Letter Opener - Deluxe (PSI)	Medium Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKMONTBU
Penn State	Letter Opener - Designer (PSI)	Medium Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKMONTBU
Penn State	Letter Opener - Designer NT (PSI)	Large Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKMONT2BU
Penn State	Letter Opener - Fancy (PSI)	Extra Large Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKLE6BU
Penn State	Letter Opener - Majestic (PSI)	Large Sized Single Tube Letter Openers	0	PKT125-6 (10 inch)	PKMAJLOBU
Penn State	Letter Opener - Patrizio (PSI)	Medium Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKPATPENBU



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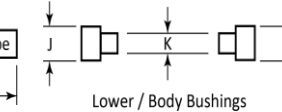
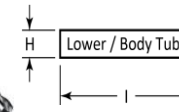
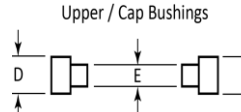
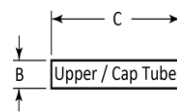
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Penn State	Kitchenware - Salt & Pepper Shaker Set (PSI)	1.00 or 25.4mm	?	4.00	1.125	0.985	1.125	x	x	x	x	x	x
Penn State	Kitchenware - Salt Grinder - Professional - Deluxe (PSI)	7mm or J	x	2.03	x	x	x	1.06 & 1.62 or 25.4mm & 41.2mm	x	4.37 to 10.50	x	x	x
Penn State	Kitchenware - Salt Shaker & Peppermill Combo (PSI)	1.06 & 1.50 or 27mm & 38.1mm	x	2.00	x	x	x	1.06 & 1.50 or 27mm & 38.1mm	x	4.00	x	x	x
Penn State	Kitchenware - T-Handle Corkscrew (PSI)	7mm or J	0.268	1.25	0.390	x	0.600	7mm or J	0.268	1.25	0.600	x	0.390
Penn State	Knights Armor Twist BP (PSI)	3/8 or 9.5mm	0.368	2.72	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Knurl GT Twist BP (PSI)	3/8 or 9.5mm	0.368	2.97	0.472	0.345	0.472	x	x	x	x	x	x
Penn State	Knurl GT Twist BP with Stylus (PSI)	3/8 or 9.5mm	0.368	2.97	0.472	0.345	0.472	x	x	x	x	x	x
Penn State	Kole EDC Click BP	8mm or O	0.311	2.51	0.430	0.286	0.430	x	x	x	x	x	x
Penn State	Lady Designer Twist BP (PSI)	7mm or J	0.268	2.03	0.331	x	0.500	7mm or J	0.268	2.03	0.400	x	0.331
Penn State	Letter Opener - 30 Caliber Bullet Cartridge (PSI)	3/8 or 9.5mm	0.368	1.60	0.466	0.345	0.466	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Antique Style (PSI)	1/4 or 6.5mm	?	?	x	x	x	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Classic (PSI)	8mm or O	0.311	2.75	0.490	0.286	0.490	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Deluxe (PSI)	7mm or J	0.268	?	0.407	x	0.426	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Designer (PSI)	7mm or J	0.268	2.75	0.407	x	0.426	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Designer NT (PSI)	7mm or J	0.268	2.75	0.407	x	0.522	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Fancy (PSI)	7mm or J	0.268	2.75	0.405	x	0.821	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Majestic (PSI)	12.5mm or 0.492	0.483	2.38	0.575	0.460	0.575	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Patrizio (PSI)	7mm or J	0.268	1.63	0.440	x	0.470	Opener Blade	x	x	x	x	x



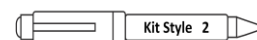
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Penn State	Letter Opener - Sculptured (PSI)	Medium Sized Single Tube Letter Openers	0	PKT8-8 (10 inch)	PKSCBU
Penn State	Letter Opener - Segmented (PSI)	Slim Sized Three Tube Letter Openers	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Letter Opener - Solid Brass (PSI)	Slim Sized No Tubes Letter Openers	0	x	x
Penn State	Letter Opener - Standard (PSI)	Slim Sized Single Tube Letter Openers	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Lever Action Rifle Click BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT10-6 (10 inch)	PKLEVB
Penn State	Light Pull (PSI)	Slim Sized Single Tube Misc. Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Lipstick Twist BP - Mini (PSI)	Extra Large Sized BP Pens	2	x	PKLSBU
Penn State	Longwood Click BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKLONGBU
Penn State	Longwood Click Pencil (PSI)	Medium Sized Pencils	2	PKT7-10 (10 inch)	PKLONGBU
Penn State	Longwood Twist 30 Caliber BP (PSI)	Medium Sized Single Tube Bullet BP Pens	1	PKCP3800TU or PKT38-8 (10 inch)	PKCP3000BU
Penn State	Longwood Twist BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKLONGBU
Penn State	Magnifier - 30 Caliber Bullet Cartridge (PSI)	Medium Sized Single Tube Bullet Magnifiers	0	PKT38-8 (10 inch)	PKCP3000BU
Penn State	Magnifier - Antique Style (PSI)	Large Sized No Tubes Magnifiers	0	x	x
Penn State	Magnifier - Classic (PSI)	Medium Sized Single Tube Magnifiers	0	PKT8-8 (10 inch)	PKPARKBU
Penn State	Magnifier - Designer (PSI)	Medium Sized Single Tube Magnifiers	0	PKT7-10 (10 inch)	PKMONTBU
Penn State	Magnifier - Designer NT (PSI)	Large Sized Single Tube Magnifiers	0	PKT7-10 (10 inch)	PKMONT2BU
Penn State	Magnifier - Necklace Charm (PSI)	Slim Sized Single Tube Magnifiers	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Magnifier - Patrizio (PSI)	Medium Sized Single Magnifiers	0	PKT7-10 (10 inch)	PKPATPENBU

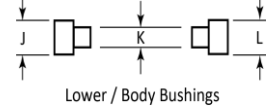
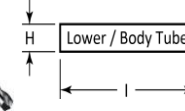
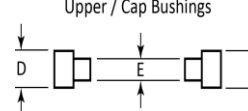
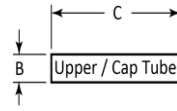


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ALWAYS MEASURE AND RELY ON THE KIT PARTS FOR ACCURACY.

Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		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.
Penn State	Letter Opener - Sculptured (PSI)	8mm or O	0.311	2.75	0.480	0.286	0.480	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Segmented (PSI)	7mm or J	0.268	(3) 0.88	0.331	x	0.331	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Solid Brass (PSI)	x	x	3.75	x	x	x	Opener Blade	x	x	x	x	x
Penn State	Letter Opener - Standard (PSI)	7mm or J	0.268	?	0.331	x	0.331	Opener Blade	x	x	x	x	x
Penn State	Lever Action Rifle Click BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.44	0.500	0.357	0.484
Penn State	Light Pull (PSI)	7mm or J	0.268	2.75	0.331	x	0.331	x	x	x	x	x	x
Penn State	Lipstick Twist BP - Mini (PSI)	1/2 or 12.6mm	0.483	1.28	0.623	0.458	0.623	1/2 or 12.6mm	0.483	1.28	0.623	0.458	0.623
Penn State	Longwood Click BP (PSI)	7mm or J	0.268	3.16	0.420	x	0.420	7mm or J	0.268	1.00	0.420	x	0.331
Penn State	Longwood Click Pencil (PSI)	7mm or J	0.268	3.16	0.420	x	0.420	7mm or J	0.268	1.00	0.420	x	0.331
Penn State	Longwood Twist 30 Caliber BP (PSI)	3/8 or 9.5mm	0.368	3.31	0.466	0.345	0.466	x	x	x	x	x	x
Penn State	Longwood Twist BP (PSI)	7mm or J	0.268	2.03	0.420	x	0.420	7mm or J	0.268	(2) .97	0.420	x	0.331
Penn State	Magnifier - 30 Caliber Bullet Cartridge (PSI)	3/8 or 9.5mm	0.368	2.00	0.466	0.345	0.466	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Antique Style (PSI)	1/4 or 6.5mm	x	?	x	x	x	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Classic (PSI)	8mm or O	0.311	3.50	0.490	0.286	0.490	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Designer (PSI)	7mm or J	0.268	3.50	0.407	x	0.426	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Designer NT (PSI)	7mm or J	0.268	3.50	0.407	x	0.522	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Necklace Charm (PSI)	7mm or J	0.268	1.13	0.331	x	0.331	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Patrizio (PSI)	7mm or J	0.268	2.38	0.440	x	0.470	Magnifying Glass	x	x	x	x	x



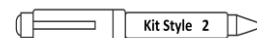
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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Magnifier - Sculptured (PSI)	Medium Sized Single Tube Magnifiers	0	PKT8-8 (10 inch)	PKSCBU
Penn State	Magnifier - Segmented (PSI)	Slim Sized Single Tube Magnifiers	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Magnifier - Standard (PSI)	Slim Sized Single Tube Magnifiers	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Majestic Jr Closed End RB or FP (PSI)	Large Sized RB or FP Pens	3	PKMAJJRTU or PKT125-6 & PKT105-6	PKMJJRCBU
Penn State	Majestic Jr Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	PKGRAD2TU or PKMAJJRTU or PKT125-6 & PKT105-6	PKMAJJRBU
Penn State	Majestic Screw Cap RB or FP (PSI)	Extra Large Sized RB or FP Pens	3	PKMAJTU	PKMAJBU
Penn State	Majestic Squire Twist BP - Sierra Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKMAJSQTU or PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Mayan Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT8-8 (10 inch)	PKMAYBU
Penn State	Mechanical 2mm Click Pencil (PSI)	Medium Sized Single Tube Pencils	1	PKT38-8 (10 inch)	PKMPLBU
Penn State	Metallo 7mm Twist BP (PSI)	Slim Sized Single Tube BP Pens	2	PKT7-10 (10 inch)	PKMT7BU
Penn State	Metallo 8mm Twist BP (PSI)	Medium Sized Single Tube BP Pens	2	PKT8-8 (10 inch)	PKMT8BU
Penn State	Mini Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT10-6 (10 inch)	PKMINCLKBU
Penn State	Mini Vanity Accessories - Desk Magnifier (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Mini Vanity Accessories - Magnetic Eyeglass Holder (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Mini Vanity Accessories - Mirror (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Mini Vanity Accessories - Pill Box (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Mini Vanity Accessories - Purse Hanger (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Miniature Purse BP (PSI)	Medium Sized BP Pens	3	PKT38-8 (10 inch)	PKPURSEBU



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Penn State Kit Bushing & Tube Refs.

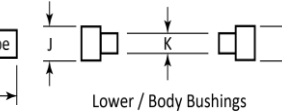
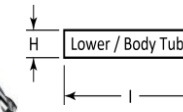
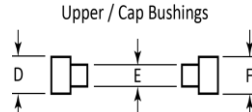
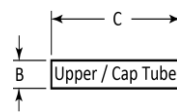
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Magnifier - Sculptured (PSI)	8mm or O	0.311	2.75	0.480	0.286	0.480	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Segmented (PSI)	7mm or J	0.268	1.19	0.331	x	0.331	Magnifying Glass	x	x	x	x	x
Penn State	Magnifier - Standard (PSI)	7mm or J	0.268	3.50	0.331	x	0.331	Magnifying Glass	x	x	x	x	x
Penn State	Majestic Jr Closed End RB or FP (PSI)	12.5mm or 0.492	0.483	1.88	0.551	0.460	x	10.5mm or Z	0.400	2.03	0.516	0.376	x
Penn State	Majestic Jr Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.88	0.551	0.460	0.575	10.5mm or Z	0.400	2.03	0.516	0.376	0.516
Penn State	Majestic Screw Cap RB or FP (PSI)	37/64 or 14.7mm	0.571	1.97	0.650	0.547	0.650	15/32 or 12mm	0.450	2.15	0.598	0.427	0.570
Penn State	Majestic Squire Twist BP - Sierra Styled (PSI)	3/8 or 9.5mm	0.368	2.00	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Mayan Twist BP (PSI)	8mm or O	0.311	1.70	0.572	0.286	0.515	8mm or O	0.311	1.70	0.515	0.286	0.515
Penn State	Mechanical 2mm Click Pencil (PSI)	3/8 or 9.5mm	0.368	3.12	0.433	0.345	0.433	x	x	x	x	x	x
Penn State	Metallo 7mm Twist BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	2.25	0.360	x	0.360
Penn State	Metallo 8mm Twist BP (PSI)	Metal Cap	x	x	x	x	x	8mm or O	0.311	2.25	0.425	0.286	0.425
Penn State	Mini Click BP (PSI)	10mm or 25/64	0.385	2.75	0.466	0.357	0.446	x	x	x	x	x	x
Penn State	Mini Vanity Accessories - Desk Magnifier (PSI)	x	x	x	x	x	x	x	x	x	x	x	x
Penn State	Mini Vanity Accessories - Magnetic Eyeglass Holder (PSI)	x	x	x	x	x	x	x	x	x	x	x	x
Penn State	Mini Vanity Accessories - Mirror (PSI)	x	x	x	x	x	x	x	x	x	x	x	x
Penn State	Mini Vanity Accessories - Pill Box (PSI)	x	x	x	x	x	x	x	x	x	x	x	x
Penn State	Mini Vanity Accessories - Purse Hanger (PSI)	x	x	x	x	x	x	x	x	x	x	x	x
Penn State	Miniature Purse BP (PSI)	3/8 or 9.5mm	0.368	1.50	0.413	0.345	0.413	3/8 or 9.5mm	0.368	1.78	0.413	0.345	0.413



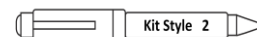
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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Montague Twist BP (PSI)	Ornate Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKGAFBU
Penn State	Moon Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	2	PKT8-8 (10 inch)	PKMOONBU
Penn State	Motorcycle Kick Start BP (PSI)	Ornate Large Sized Single Tube BP Pens	2	PKT10-6 (10 inch)	PKPT100BU
Penn State	Music Screw Cap RB or FP (PSI)	Ornate Extra Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKMUSRB
Penn State	Music Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT8-8 (10 inch)	PKMUSBU
Penn State	Nautical Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Needle Threader Assistant (PSI)	Medium Sized Single Tube Specialty Items	0	PKSR2TU	PKSRBU
Penn State	Olympian Screw Cap RB or FP - Elite (PSI)	Extra Large Sized RB or FP Pens	3	PKOLTU	PKOLBU
Penn State	Olympian Screw Cap RB or FP - Elite 2 (PSI)	Extra Large Sized RB or FP Pens	3	PKOLTU	PKOL2BU
Penn State	Olympian Screw Cap RB or FP - Elite Closed Ends (PSI)	Extra Large Sized RB or FP Pens	3	PKMAJJRTU or PKT125-6 & PKT105-6	PKOLCEBU
Penn State	Oxford Screw Cap RB or FP (PSI)	Medium Sized Single Tube RB or FP Pens	3	PKL750TU	PKL750BU
Penn State	Oxford Screw Cap RB or FP (V2) (PSI)	Medium Sized Single Tube RB or FP Pens	3	PKT10-6 (10 inch)	PKL760BU
Penn State	Oxford Twist BP (PSI)	Medium Sized Single Tube BP Pens	2	PKT7-10 (10 inch)	PKJPENBU
Penn State	Patrizio Twist BP & Click Pencil - Europa (PSI)	Medium Sized BP Pens and Pencils	2	PKPATPENTU or PKT7-10 (10 inch)	PKPATDSBU
Penn State	Patrizio Twist BP & Click Pencil (PSI)	Medium Sized BP Pens and Pencils	2	PKPATPENTU or PKT7-10 (10 inch)	PKPATPENBU
Penn State	Pen Stand - Mr. Pen Parts (PSI)	Slim Sized Specialty Items	0	PKT7-10 (10 inch)	x
Penn State	Pen Stand - Single Pen (PSI)	Large Sized No Tube Specialty Items	0	x	PKSTANDYBU
Penn State	Perfume Applicator Pen (PSI)	Slim Sized Specialty Items	0	x	PKPERFBU



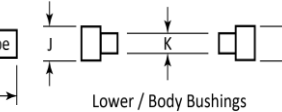
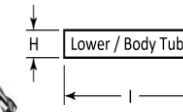
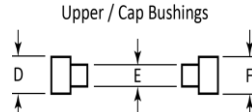
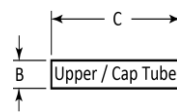
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Penn State	Montague Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.85	0.525	0.345	0.525
Penn State	Moon Twist BP (PSI)	Metal Cap	x	x	x	x	x	8mm or O	0.311	2.18	0.455	0.286	0.429
Penn State	Motorcycle Kick Start BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.28	0.500	0.357	0.500
Penn State	Music Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.65	0.551	0.460	0.600	10.5mm or Z	0.400	2.28	0.551	0.376	0.551
Penn State	Music Twist BP (PSI)	8mm or O	0.311	1.76	0.570	0.286	0.600	8mm or O	0.311	1.44	0.535	0.286	0.525
Penn State	Nautical Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.62	0.495	0.345	0.495
Penn State	Needle Threader Assistant (PSI)	8mm or O	0.311	3.13	0.430	0.286	0.430	Sewing	x	x	x	x	x
Penn State	Olympian Screw Cap RB or FP - Elite (PSI)	33/64 or 13.2mm	0.510	1.69	0.592	0.494	0.588	31/64 or 12.3mm	0.470	2.00	0.536	0.450	0.536
Penn State	Olympian Screw Cap RB or FP - Elite 2 (PSI)	33/64 or 13.2mm	0.510	1.56	0.592	0.494	0.655	31/64 or 12.3mm	0.470	1.88	0.538	0.450	0.538
Penn State	Olympian Screw Cap RB or FP - Elite Closed Ends (PSI)	12.5mm or 0.492	0.483	1.70	0.642	0.460	x	10.5mm or Z	0.400	1.98	0.538	0.376	x
Penn State	Oxford Screw Cap RB or FP (PSI)	Metal Cap	x	x	x	x	x	13/32 or 10.4mm	0.393	?	0.478	0.374	0.478
Penn State	Oxford Screw Cap RB or FP (V2) (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	?	0.478	0.357	0.478
Penn State	Oxford Twist BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	2.36	0.456	x	0.440
Penn State	Patrizio Twist BP & Click Pencil - Europa (PSI)	7mm or J	0.268	1.47	0.450	x	0.480	7mm or J	0.268	1.47	0.440	x	0.375
Penn State	Patrizio Twist BP & Click Pencil (PSI)	7mm or J	0.268	1.47	0.440	x	0.470	7mm or J	0.268	1.47	0.470	x	0.420
Penn State	Pen Stand - Mr. Pen Parts (PSI)	7mm or J	0.268	1.00	x	x	x	7mm or J	0.268	1.75	x	x	x
Penn State	Pen Stand - Single Pen (PSI)	3/4 or 19mm	x	2.25	1.830	0.740	1.670	x	x	x	x	x	x
Penn State	Perfume Applicator Pen (PSI)	5/16 or 8mm	0.301	0.97	0.389	0.274	0.389	5/16 or 8mm	0.301	2.91	0.389	0.274	0.389



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Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Perfume Atomizer - Purse Style (PSI)	Extra Large Sized Specialty Items	0	?	PKATOMBU
Penn State	Perfume Atomizer - Table Top or Purse Style (PSI)	Extra Large Sized Specialty Items	0	x	PKATOMBU
Penn State	Phoenix Rising Twist BP (PSI)	Ornate Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKVICBU
Penn State	Pirate Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKPIRBU
Penn State	Polaris Click BP - Atlas Styled (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKPOLBU
Penn State	Polaris Twist BP & Pencil .7mm - Atlas Styled (PSI)	Medium Sized Single Tube BP Pens and Pencils	1	PKT38-8 (10 inch)	PKPOLBU
Penn State	Police Click BP (PSI)	Ornate Large Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	PKPOLICEBU
Penn State	Pool Chalk Holder and Twist BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKCOLDBU
Penn State	Pool Cue Screw Cap RB (PSI)	Medium Sized RB Pen	3	PKT10-6 & PKT8-8 (10 inch)	PKPCUBU
Penn State	Power Click BP and Pencil 2mm (PSI)	Medium Sized BP Pens and Pencils	2	PKPOWPENTU or PKT8-8 (10 inch)	PKPOWBU
Penn State	Presimo Snap Top RB or FP (PSI)	Large Sized Single Tube RB or FP Pens	3	PKPT100TU or PKT10-6 (10 inch)	PKPT100BU
Penn State	Princess Twist BP (PSI)	Medium Sized BP Pens	2	PKPRPENTU or PKT10-6 & PKT8-8	PKPRPENBU
Penn State	Professional Twist BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKPRFBU
Penn State	Propeller Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	KPROPBU
Penn State	RAW Metal Screw Cap RB or FP (PSI)	Medium Sized Single Tube RB or FP Pens	3	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Razor - Fusion Cartridges - Toothbrush (PSI)	Medium Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKRAHANBU
Penn State	Razor - Mach 3 Cartridges - Magnum (PSI)	Large Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKCP7000BU
Penn State	Razor - Mach 3 Cartridges - Majestic (PSI)	Medium Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKMAJSQBU



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Penn State Kit Bushing & Tube Refs.

Imperial English Units Revised 7-2-2023

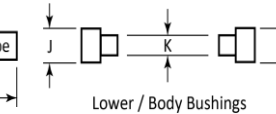
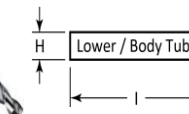
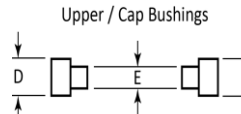
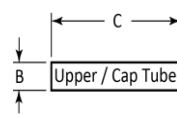
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Perfume Atomizer - Purse Style (PSI)	19/32 or 15mm	0.580	1.38	0.656	0.561	0.656	19/32 or 15mm	0.580	1.50	0.656	0.561	0.656
Penn State	Perfume Atomizer - Table Top or Purse Style (PSI)	19/32 or 15mm	0.580	1.25	0.656	0.561	0.656	19/32 or 15mm	0.580	1.69	0.656	0.561	0.656
Penn State	Phoenix Rising Twist BP (PSI)	3/8 or 9.5mm	0.368	2.67	0.550	0.345	0.550	x	x	x	x	x	x
Penn State	Pirate Twist BP (PSI)	3/8 or 9.5mm	0.368	1.62	0.495	0.345	0.560	3/8 or 9.5mm	0.368	1.97	0.560	0.345	0.495
Penn State	Polaris Click BP - Atlas Styled (PSI)	3/8 or 9.5mm	0.368	2.84	0.495	0.345	0.450	x	x	x	x	x	x
Penn State	Polaris Twist BP & Pencil .7mm - Atlas Styled (PSI)	3/8 or 9.5mm	0.368	2.84	0.495	0.345	0.450	x	x	x	x	x	x
Penn State	Police Click BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.21	0.519	0.345	0.440
Penn State	Pool Chalk Holder and Twist BP (PSI)	7mm or J	0.268	2.75	0.330	x	0.440	7mm or J	0.268	1.27	0.440	x	0.330
Penn State	Pool Cue Screw Cap RB (PSI)	10mm or 25/64	0.385	3.50	0.468	0.357	0.500	8mm or O	0.311	3.00	0.486	0.286	0.380
Penn State	Power Click BP and Pencil 2mm (PSI)	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
Penn State	Presimo Snap Top RB or FP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.44	0.500	0.357	0.500
Penn State	Princess Twist BP (PSI)	10mm 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
Penn State	Professional Twist BP (PSI)	3/8 or 9.5mm	0.368	2.81	0.488	0.345	0.488	x	x	x	x	x	x
Penn State	Propeller Twist BP (PSI)	3/8 or 9.5mm	0.368	1.77	0.462	0.345	0.450	3/8 or 9.5mm	0.368	1.77	0.406	0.345	0.458
Penn State	RAW Metal Screw Cap RB or FP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.97	0.495	0.345	0.495
Penn State	Razor - Fusion Cartridges - Toothbrush (PSI)	7mm or J	0.268	3.00	0.400	x	0.400	Razor Head	x	x	x	x	x
Penn State	Razor - Mach 3 Cartridges - Magnum (PSI)	7mm or J	0.268	2.06	0.530	x	0.530	Razor Head	x	x	x	x	x
Penn State	Razor - Mach 3 Cartridges - Majestic (PSI)	7mm or J	0.268	3.00	0.495	x	0.495	Razor Head	x	x	x	x	x



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Kit Style 0 are Misc. Kit

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 Modifying Replacement
 Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Razor - Mach 3 Cartridges - Standard (PSI)	Medium Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKRAHANBU
Penn State	Razor - Safety - Speed Dial (PSI)	Large Sized Single Tube Shaving Accessories	0	PKT10-6 (10 inch)	PKRASAF2BU
Penn State	Razor - Safety (PSI)	Medium Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKRAHANBU
Penn State	Razor & Brush Stand - Deluxe (PSI)	Large Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKRASTBU
Penn State	Razor & Brush Stand - Premium (PSI)	Large Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKRASTBU
Penn State	Revolver Click BP (PSI)	Ornate Large Sized Single Tube Bullet BP Pens	2	PKT10-6 (10 inch)	PKREVBUB
Penn State	Rollester Snap Cap RB (PSI)	Medium Sized Single Tube BP Pens	3	PKT38-8 (10 inch)	PKCHPENBU
Penn State	Saxa EDC Click BP (PSI)	Slim Sized Single Tube BP Pens	1	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Saxa EDC Click Pencil (PSI)	Slim Sized Single Tube Pencils	1	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Sculptured Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT8-8 (10 inch)	PKSCBU
Penn State	Seam Ripper - 2 in 1 with Scissors (PSI)	Medium Sized Single Tube Specialty Items	0	PKT8-8 & PKT10-6 (10 inch)	PKSRSCBU
Penn State	Seam Ripper - Dual Blade or 2 in 1 Large Blade (PSI)	Medium Sized Single Tube Specialty Items	0	PKSR2TU or PKT8-8 (10 inch)	PKSRBU
Penn State	Seam Ripper - Necklace Small Blade (PSI)	Medium Sized Single Tube Specialty Items	0	PKT8-8 (10 inch)	PKSRBU
Penn State	Seam Ripper - Single Blade or Stiletto (PSI)	Medium Sized Single Tube Specialty Items	0	PKSR1TU or PKT8-8 (10 inch)	PKSRBU
Penn State	Seam Roller (PSI)	Large Sized Single Tube Specialty Items	0	PKT7-10 (10 inch)	PKSROLLBU
Penn State	Segmented Twist BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKSEGPENBU
Penn State	Semi Automatic Hand Gun Click BP (PSI)	Ornate Large Single Tube BP Pens	1	PKT38-8 (10 inch)	PKABBU
Penn State	Semi Automatic Rifle Side Action Click Action BP (PSI)	Ornate Large Sized Single Tube BP Pens	3	PKT10-6 (10 inch)	PKAUTOBU



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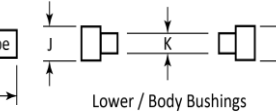
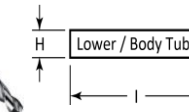
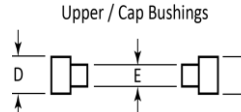
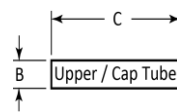
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Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Razor - Mach 3 Cartridges - Standard (PSI)	7mm or J	0.268	3.00	0.400	x	0.400	Razor Head	x	x	x	x	x
Penn State	Razor - Safety - Speed Dial (PSI)	10mm or 25/64	0.385	3.00	0.550	0.357	0.550	Razor Head	x	x	x	x	x
Penn State	Razor - Safety (PSI)	7mm or J	0.268	3.00	0.400	x	0.400	Razor Head	x	x	x	x	x
Penn State	Razor & Brush Stand - Deluxe (PSI)	7mm or J	0.268	3.25	0.530	x	0.530	Razor Stand	x	x	x	x	x
Penn State	Razor & Brush Stand - Premium (PSI)	7mm or J	0.268	3.25	0.530	x	0.530	Razor Stand	x	x	x	x	x
Penn State	Revolver Click BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	1.69	0.508	0.357	0.508
Penn State	Rollester Snap Cap RB (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	3.30	0.445	0.345	0.445
Penn State	Saxa EDC Click BP (PSI)	7mm or J	0.268	2.75	0.331	x	0.331	x	x	x	x	x	x
Penn State	Saxa EDC Click Pencil (PSI)	7mm or J	0.268	3.12	0.331	x	0.331	x	x	x	x	x	x
Penn State	Sculptured Twist BP (PSI)	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
Penn State	Seam Ripper - 2 in 1 with Scissors (PSI)	10mm or 25/64	0.385	2.42	0.503	0.357	0.486	8mm or O	0.311	2.22	0.426	0.286	0.430
Penn State	Seam Ripper - Dual Blade or 2 in 1 Large Blade (PSI)	8mm or O	0.311	3.13	0.430	0.286	0.430	Sewing	x	x	x	x	x
Penn State	Seam Ripper - Necklace Small Blade (PSI)	8mm or O	0.311	2.25	0.375	0.286	0.430	Sewing	x	x	x	x	x
Penn State	Seam Ripper - Single Blade or Stiletto (PSI)	8mm or O	0.311	3.13	0.375	0.286	0.430	Sewing	x	x	x	x	x
Penn State	Seam Roller (PSI)	7mm or J	0.268	3.23	0.681	x	0.374	Sewing	x	x	x	x	x
Penn State	Segmented Twist BP (PSI)	7mm or J	0.268	(2) 0.97	0.410	x	0.460	7mm or J	0.268	1.56	0.460	x	0.410
Penn State	Semi Automatic Hand Gun Click BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.23	0.457	0.345	0.457
Penn State	Semi Automatic Rifle Side Action Click Action BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.37	0.506	0.357	0.506



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Penn State	Serpent Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT105-6 (10 inch)	PKSERBU
Penn State	Shake Action BP (PSI)	Medium Sized BP Pens	2	PKT10-6 (10 inch)	PKSHAKEBU
Penn State	Shaving Brush - Decor (PSI)	Extra Large No Tube Shaving Accessories	0	x	PKISCOOPBU
Penn State	Shaving Brush - Monarch (PSI)	Extra Large Sized Single Tube Shaving Accessories	0	PKT7-10 (10 inch)	PKTOOL2BU
Penn State	Shimmering Crystals Twist BP (PSI)	Slim Sized BP Pens	2	PKCTPENTU or PKT8-8 (10 inch)	PKCTPENBU
Penn State	Shock Absorber Screw Cap BP (PSI)	Ornate Large Sized Single Tube BP Pens	3	PKSAPENTU	PKSAPENBU
Penn State	Skeleton Key Twist BP (PSI)	Ornate Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKGAFBU
Penn State	Sketch 3mm Click Pencil - Mini (PSI)	Medium Sized Single Tube Workshop Pencils	1	PKSPCL3TU or PKT8-8 (10 inch)	PKSPCL3BU
Penn State	Sketch 5.6mm Click Pencil - Workshop (PSI)	Large Sized Workshop Pencils	2	PKSPCLTU	PKSPCLBU
Penn State	Sketch Pen & 5.6mm Pencil Combo - Deluxe (PSI)	Large Sized Single Tube Workshop Pens & Pencils	1	PKSPCL2TU	PKSPCL2BU
Penn State	Skull Screw Cap RB or FP (PSI)	Ornate Large Sized Screw Cap RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKSKULLRBU
Penn State	Skull Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKSKULLBU
Penn State	Slimline Click Pencil (PSI)	Slim Sized Pencils	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Slimline Pro EDC Click BP (PSI)	Medium Sized BP Pens	2	PKT8-8 (10 inch)	PKPENXXBU
Penn State	Slimline Pro Gelwriter Click BP and Pencil .7mm (PSI)	Medium Sized BP Pens and Pencils	2	PKPENXXTU	PKPENXXBU
Penn State	Slimline Twist BP - Funline Economy (PSI)	Slim Sized BP Pens	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Slimline Twist BP (PSI)	Slim Sized BP Pens	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3



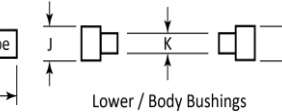
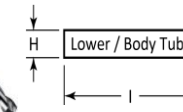
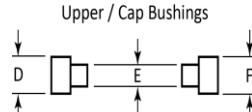
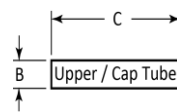
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Penn State	Serpent Twist BP (PSI)	10.5mm or Z	0.400	1.66	0.513	0.376	0.528	10.5mm or Z	0.400	2.16	0.528	0.376	0.492
Penn State	Shake Action BP (PSI)	10mm or 25/64	0.385	2.13	0.450	0.357	0.498	10mm or 25/64	0.385	2.13	0.498	0.357	0.450
Penn State	Shaving Brush - Decor (PSI)	7/16 & 7/8	x	2.25 to 4.00	0.830	0.432	0.830	Brush	x	x	x	x	x
Penn State	Shaving Brush - Monarch (PSI)	7mm or J	0.268	1.62	0.932	x	0.932	Brush	x	x	x	x	x
Penn State	Shimmering Crystals Twist BP (PSI)	8mm or O	0.311	2.28	0.398	0.286	0.355	x	x	x	x	x	x
Penn State	Shock Absorber Screw Cap BP (PSI)	27/64 or 10.7mm	0.410	1.44	0.564	0.381	0.500	Spring	x	x	x	x	x
Penn State	Skeleton Key Twist BP (PSI)	3/8 or 9.5mm	0.368	3.12	0.525	0.345	0.525	x	x	x	x	x	x
Penn State	Sketch 3mm Click Pencil - Mini (PSI)	8mm or O	0.311	3.25	0.435	0.286	0.435	x	x	x	x	x	x
Penn State	Sketch 5.6mm Click Pencil - Workshop (PSI)	7/16 or 11.2mm	0.415	1.78	0.512	0.389	0.512	7/16 or 11.2mm	0.415	1.78	0.512	0.389	0.512
Penn State	Sketch Pen & 5.6mm Pencil Combo - Deluxe (PSI)	7/16 or 11.2mm	0.415	2.69	0.576	0.389	0.500	x	x	x	x	x	x
Penn State	Skull Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	2.72	0.583	0.460	0.603	10.5mm or Z	0.400	1.20	0.531	0.376	0.555
Penn State	Skull Twist BP (PSI)	3/8 or 9.5mm	0.368	1.36	0.575	0.345	0.575	3/8 or 9.5mm	0.368	1.71	0.575	0.345	0.575
Penn State	Slimline Click Pencil (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Slimline Pro EDC Click BP (PSI)	8mm or O	0.311	1.89	0.425	0.286	0.425	8mm or O	0.311	1.89	0.425	0.286	0.425
Penn State	Slimline Pro Gelwriter Click BP and Pencil .7mm (PSI)	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
Penn State	Slimline Twist BP - Funline Economy (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Slimline Twist BP (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331



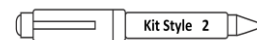
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Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Slimline Twist Pencil - Funline (PSI)	Slim Sized Pencils	2	MCM-CFTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Soccer Twist BP (PSI)	Medium Sized Single Tube BP Pens	2	PKT38-8 (10 inch)	KSCERBU
Penn State	Sophro Twist RB (PSI)	Medium Sized Single Tube RB Pens	1	PKT105-6 (10 inch)	PKSOPHBU
Penn State	Southwest Mesa Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKCHPENBU
Penn State	Southwest Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	PKT125-6 & PKT105-6 (10 inch)	PKMAJJRBU
Penn State	Southwest Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKSWPBU
Penn State	Spartan Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKMAJSQBU
Penn State	Spider Twist BP (PSI)	Large Single Tube BP Pens	2	PKT105-6 (10 inch)	PKSPDRBU
Penn State	Starlet Stem BP (PSI)	Ornate Slim Sized Single Tube BP Pens	1	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Steampump Lever Click BP (PSI)	Ornate Large Sized Single Tube BP Pens	2	PKT10-6 (10 inch)	PKSPBU
Penn State	Stratus Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKKPENTU or PKT38-8 (10 inch)	PKCHPENBU
Penn State	Stratus Click Pencil (PSI)	Medium Sized Single Tube Pencils	1	PKKPENTU or PKT38-8 (10 inch)	PKCHPENBU
Penn State	Stylus - 3 in 1 Flip BP and Light (PSI)	Large Single Tube BP Pens with Stylus	3	PKT125-6 (10 inch)	PKCKBU
Penn State	Stylus - Flip Click Cap BP V2 (PSI)	Medium Sized Single Tube BP Pens with Stylus	3	PKFLIP2TU or PKT38-8 (10 inch)	PKFPBU
Penn State	Stylus - Key Chain BP (PSI)	Large Sized Single Tube BP Pens with Stylus	3	PKT7-10 (10 inch)	PKTS100BU
Penn State	Stylus - Mini Touch Credit Card Twist BP (PSI)	Slim Sized Single Tube BP Pens with Stylus	1	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Stylus - Mini Touch Telescoping Twist BP (PSI)	Slim Sized Single Tube BP Pens with Stylus	1	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Stylus - Mini Touch with Plug (PSI)	Slim Sized Single Tube Stylus Items	0	PKT7-10 (10 inch)	PKMBUSH3



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Penn State Kit Bushing & Tube Refs.

Imperial English Units Revised 7-2-2023

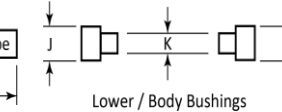
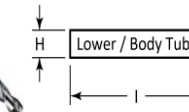
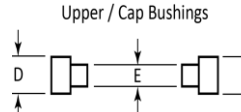
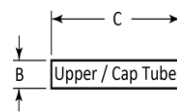
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Tolerances - All Imperial English Units Measurements:

2 - Place Dims +/- .01 & 3 - Place Dims +/- .005



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ALWAYS MEASURE AND RELY ON THE KIT PARTS FOR ACCURACY.

Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		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.
Penn State	Slimline Twist Pencil - Funline (PSI)	7mm or J	0.268	2.03	0.331	x	0.331	7mm or J	0.268	2.03	0.331	x	0.331
Penn State	Soccer Twist BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	3.21	0.491	0.343	0.516
Penn State	Sophro Twist RB (PSI)	10.5mm or Z	0.400	3.11	0.471	0.376	0.507	x	x	x	x	x	x
Penn State	Southwest Mesa Twist BP (PSI)	3/8 or 9.5mm	0.368	3.20	0.445	0.345	0.445	x	x	x	x	x	x
Penn State	Southwest Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.73	0.550	0.460	0.576	10.5mm or Z	0.400	2.17	0.516	0.376	0.516
Penn State	Southwest Twist BP (PSI)	3/8 or 9.5mm	0.368	1.50	0.550	0.345	0.480	3/8 or 9.5mm	0.368	1.92	0.500	0.345	0.500
Penn State	Spartan Click BP (PSI)	3/8 or 9.5mm	0.368	2.79	0.495	0.345	0.495	x	x	x	x	x	x
Penn State	Spider Twist BP (PSI)	Metal Cap	x	x	x	x	x	10.5mm or Z	0.400	2.19	0.531	0.376	0.531
Penn State	Starlet Stem BP (PSI)	7mm or J	0.268	2.41	0.331	x	0.331	x	x	x	x	x	x
Penn State	Steampump Lever Click BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.17	0.500	0.357	0.471
Penn State	Stratus Click BP (PSI)	3/8 or 9.5mm	0.368	2.69	0.445	0.345	0.445	x	x	x	x	x	x
Penn State	Stratus Click Pencil (PSI)	3/8 or 9.5mm	0.368	2.72	0.445	0.345	0.445	x	x	x	x	x	x
Penn State	Stylus - 3 in 1 Flip BP and Light (PSI)	12.5mm or 0.492	0.483	2.41	0.571	0.460	0.571	Metal Tip	x	x	x	x	x
Penn State	Stylus - Flip Click Cap BP V2 (PSI)	3/8 or 9.5mm	0.368	2.56	0.433	0.345	0.433	x	x	x	x	x	x
Penn State	Stylus - Key Chain BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	1.75	0.380	x	0.510
Penn State	Stylus - Mini Touch Credit Card Twist BP (PSI)	7mm or J	0.268	1.70	0.331	x	0.331	Stylus	x	x	x	x	x
Penn State	Stylus - Mini Touch Telescoping Twist BP (PSI)	Metal Cap	x	x	x	x	x	7mm or J	0.268	2.38	0.331	x	0.331
Penn State	Stylus - Mini Touch with Plug (PSI)	7mm or J	0.268	1.75	0.331	x	0.331	Stylus	x	x	x	x	x



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 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Stylus - Touch (PSI)	Slim Sized Single Tube Stylus Items	0	PKTSTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Stylus - Touch Tablet Twist BP (PSI)	Slim Sized BP Pens with Stylus	2	PKTSPENTU or PKT7-10 (10 inch)	PKMBUSH3
Penn State	Stylus and Smartphone Stand (PSI)	Extra Large Sized Single Tube Stylus Items	0	PKT38-8	PKSPRTBU
Penn State	Tank Twist PB (PSI)	Ornate Extra Large Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKTANKBU
Penn State	Teachers Twist BP (PSI)	Slim Sized Specialty Style BP Pens	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Tec-7 Twist BP - Stylus (PSI)	Medium Sized BP Pens with Stylus	2	PKT7-10 (10 inch)	PKTSTECBU
Penn State	Tech BP - 2 Way (PSI)	Medium Sized Specialty Style Pens	2	PKT38-8 (10 inch)	PK2WAYBU
Penn State	Tobacco Taster	Medium Sized Single Tube Misc. Items	0	PKT7-10	PKTPENBU
Penn State	Tools - 4 in 1 Multi Screwdriver (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Air Freshener (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Back Scratcher (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Bolt Action Hobby Knife	Medium Sized Single Tube Misc. Items	0	PKT38-8	PKKNBU
Penn State	Tools - Brass Hammer (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Brass Mallet (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Claw Hammer (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Diamond File Pen (PSI)	Slim Sized Specialty Style Pens	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Tools - Drawer Knobs (PSI)	Slim Sized Single Tube Specialty Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Tools - Dust Brush (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x



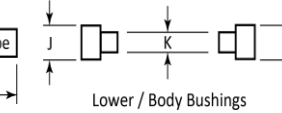
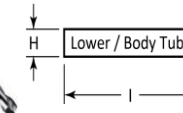
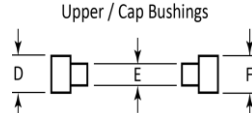
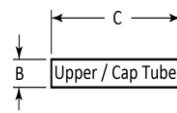
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Penn State	Stylus - Touch (PSI)	7mm or J	0.268	3.19	0.331	x	0.331	Stylus	x	x	x	x	x
Penn State	Stylus - Touch Tablet Twist BP (PSI)	7mm or J	0.268	1.91	0.331	x	0.331	7mm or J	0.268	1.91	0.331	x	0.331
Penn State	Stylus and Smartphone Stand (PSI)	3/8 or 9.5mm	0.368	1.38	0.638	0.345	0.456	Stylus	x	x	x	x	x
Penn State	Tank Twist PB (PSI)	3/8 or 9.5mm	0.368	2.84	0.603	0.345	0.603	x	x	x	x	x	x
Penn State	Teachers Twist BP (PSI)	7mm or J	0.268	2.19	0.331	x	0.331	7mm or J	0.268	(2) 0.81	0.331	x	0.331
Penn State	Tec-7 Twist BP - Stylus (PSI)	7mm or J	0.268	1.90	0.427	x	0.435	7mm or J	0.268	1.90	0.435	x	0.350
Penn State	Tech BP - 2 Way (PSI)	3/8 or 9.5mm	0.368	1.56	0.420	0.345	0.475	3/8 or 9.5mm	0.368	2.38	0.475	0.345	0.440
Penn State	Tobacco Taster	7mm or J	0.268	1.91	0.425	x	0.425	x	x	x	x	x	x
Penn State	Tools - 4 in 1 Multi Screwdriver (PSI)	Metal Tool	x	x	x	x	x	1/8 & 7/16 & 5/8	x	4.00 to 6.00	0.875	x	0.800
Penn State	Tools - Air Freshener (PSI)	1.12 or 28.6mm	x	0.75	x	x	x	x	x	x	x	x	x
Penn State	Tools - Back Scratcher (PSI)	Metal Tool	x	x	x	x	x	11/32 or 8.8mm	x	9.00	x	x	x
Penn State	Tools - Bolt Action Hobby Knife	3/8 or 9.5mm	0.368	2.73	0.472	0.343	0.472	x	x	x	x	x	x
Penn State	Tools - Brass Hammer (PSI)	Metal Tool	x	x	x	x	x	1/2 or 12.6mm	x	5.50 to 7.00	x	x	x
Penn State	Tools - Brass Mallet (PSI)	Metal Tool	x	x	x	x	x	1/2 or 12.6mm	x	5.50 to 7.00	x	x	x
Penn State	Tools - Claw Hammer (PSI)	Metal Tool	x	x	x	x	x	3/8 or 9.5mm	x	4.50 to 6.00	x	x	x
Penn State	Tools - Diamond File Pen (PSI)	7mm or J	0.268	3.06	0.331	x	0.331	7mm or J	0.268	1.13	0.331	x	0.331
Penn State	Tools - Drawer Knobs (PSI)	7mm or J	0.268	1.20 to 1.75	0.331	x	0.331	x	x	x	x	x	x
Penn State	Tools - Dust Brush (PSI)	Brush	x	x	x	x	x	1.00	x	10.00 to 12.00	x	x	x



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Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Tools - Eye Brush Set (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Fire Starter - 20K Striker (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Fire Starter - 6K Striker (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Fire Starter - Flint (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Gardening Tool Set (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Mini Scissors (PSI)	Large Sized Single Tube Specialty Items	0	PKT10-6 (10 inch)	PKFBALLBU
Penn State	Tools - Pet Dematting Comb (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Ratcheting Screwdriver - 7 in 1 (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Ratcheting Screwdriver - Mini or Midi Single Bit (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Screwdriver Twist BP - 3 in 1 (PSI)	Medium Sized Tools and Utility Items	3	PKSDPENTU	PKSDPENBU
Penn State	Tools - Sealing Stamp (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Shoe Horn (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Telescoping Back Scratcher (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Telescoping Candle Snuffer (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tools - Telescoping Magnetic Pickup Tool (PSI)	Medium Sized Specialty Items	0	PKT10-6 (10 inch)	PKPUTBU
Penn State	Tools - Tweezers (PSI)	Extra Large Single Tube Misc. Items	0	PKT10-6 (10 inch)	PKTWEEZBU
Penn State	Tools - Wood Mallet or Gavel (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Tower Twist BP (PSI)	Large Sized BP Pens	2	PKT7-10 (10 inch)	PKTOWERBU



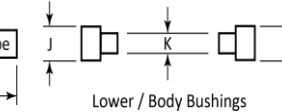
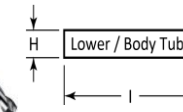
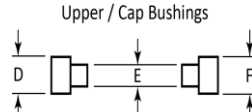
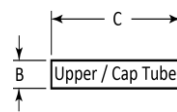
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Tools - Eye Brush Set (PSI)	Brush	x	x	x	x	x	x	x	5.00 to 8.00	x	x	x
Penn State	Tools - Fire Starter - 20K Striker (PSI)	Metal Tool	x	x	x	x	x	1/4 & 19/32 & 5/8	x	5.00	x	x	x
Penn State	Tools - Fire Starter - 6K Striker (PSI)	Metal Tool	x	x	x	x	x	1/4 & 19/32 & 7/16	x	5.00	x	x	x
Penn State	Tools - Fire Starter - Flint (PSI)	3/16 & 3/8 or 4.8mm & 9.5mm	1.00	5.00	x	x	x	Metal Tool	x	x	x	x	x
Penn State	Tools - Gardening Tool Set (PSI)	Metal Tool	x	x	x	x	x	21/64 or 8.4mm	x	6.00 to 8.00	x	x	x
Penn State	Tools - Mini Scissors (PSI)	10mm or 25/64	0.385	2.91	0.515	0.357	0.502	Sewing	x	x	x	x	x
Penn State	Tools - Pet Dematting Comb (PSI)	Metal Tool	x	x	x	x	x	1/4 or 6.5mm	x	6.00	x	x	x
Penn State	Tools - Ratcheting Screwdriver - 7 in 1 (PSI)	Metal Tool	x	x	x	x	x	7/16 & 3/4	x	5.00 to 6.00	x	x	x
Penn State	Tools - Ratcheting Screwdriver - Mini or Midi Single Bit (PSI)	Metal Tool	x	x	x	x	x	3/8 or 9/16 & 3/4	x	4.00 or 4.50	x	x	x
Penn State	Tools - Screwdriver Twist BP - 3 in 1 (PSI)	10mm 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
Penn State	Tools - Sealing Stamp (PSI)	Metal Stamp	x	x	x	x	x	8mm or O	x	3.00 to 3.50	x	x	x
Penn State	Tools - Shoe Horn (PSI)	Metal Tool	x	x	x	x	x	11/32 or 8.8mm	x	7.00	x	x	x
Penn State	Tools - Telescoping Back Scratcher (PSI)	Metal Tool	x	x	x	x	x	7/16 or 11.2mm	x	6.00 to 7.00	x	x	x
Penn State	Tools - Telescoping Candle Snuffer (PSI)	Metal Tool	x	x	x	x	x	7/16 or 11.2mm	x	6.00 to 7.00	x	x	x
Penn State	Tools - Telescoping Magnetic Pickup Tool (PSI)	10mm or 25/64	0.385	2.13	0.488	0.357	0.488	10mm or 25/64	0.385	2.13	0.488	0.357	0.488
Penn State	Tools - Tweezers (PSI)	10mm or 25/64	0.385	3.39	0.501	0.357	0.506	x	x	x	x	x	x
Penn State	Tools - Wood Mallet or Gavel (PSI)	5/8 or 16mm	x	7.00	x	x	x	5/8 or 16mm	x	18.00	x	x	x
Penn State	Tower Twist BP (PSI)	7mm or J	0.268	2.75	?	x	?	7mm or J	0.268	2.50	?	x	?



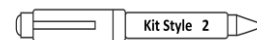
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Note: All data was compiled from suppliers published kit, tube and bushing information.

Dimensions are based on Imperial English.
 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.



Kit Style 0 are Misc. Kit

Some Kits May Require Modifying Replacement Tube Lengths.



Typical Mandrel Dia. Sizes
 A - .247 Dia. B - .291 Dia.
 Size Determined by Supplier



Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Toys & Games - Baseball Bat (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Toys & Games - CD ROM Top (PSI)	Slim Sized Single Tube Specialty Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Toys & Games - Chessmen (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Toys & Games - Darts (PSI)	Slim Sized Single Tube Specialty Items	0	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Toys & Games - Fidget Beads - Begleri (PSI)	Extra Large Sized Single Tube Specialty Items	0	PKT8-8 (10 inch)	PKBEGBU
Penn State	Toys & Games - Kaleidoscope - Eggoscope (PSI)	Extra Large Sized Single Tube Specialty Items	0	x	KSEG-M
Penn State	Toys & Games - Kaleidoscope - Necklace (PSI)	Large Sized Single Tube Specialty Items	0	x	KSNECBU
Penn State	Toys & Games - Kaleidoscope - Steampunk (PSI)	Extra Large Sized Single Tube Specialty Items	0	x	PKSPKSBU
Penn State	Toys & Games - Kaleidoscope - Wand (PSI)	Extra Large Sized Single Tube Specialty Items	0	x	KSEG-M
Penn State	Toys & Games - Pool Cue (PSI)	Large Sized No Tubes or Bushings Misc. Items	0	x	x
Penn State	Toys & Games - Slingshot (PSI)	Extra Large No Tubes or Bushings Misc. Items	0	x	x
Penn State	Toys & Games - Spinning Top - Ball Bearing (PSI)	Large Sized Specialty Items	0	PKT10-6 (10 inch)	PK10BUSH3 or PKPAR10-B2
Penn State	Toys & Games - Yo-Yo - Ball Bearing (PSI)	Large Sized Specialty Items	0	PKT10-6 (10 inch)	PK10BUSH3 or PKPAR10-B2
Penn State	Traditional Screw Cap RB & FP (PSI)	Medium Sized RB or FP Pens	3	PKT10-6 (10 inch)	PK10BUSH3
Penn State	Trimline Click Pencil (PSI)	Medium Sized Pencils	2	PKT7-10 (10 inch)	PKXMBU
Penn State	Trimline Twist BP (PSI)	Medium Sized BP Pens	2	PKT7-10 (10 inch)	PKXMBU
Penn State	Tudor Twist BP (PSI)	Ornate Medium Sized Single Tube BP Pens	1	PKT38-8 (10 inch)	PKKNBU



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Penn State Kit Bushing & Tube Refs.

Imperial English Units Revised 7-2-2023

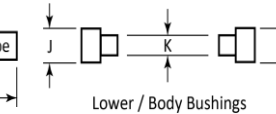
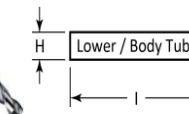
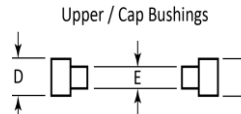
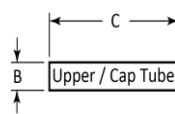
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Tolerances - All Imperial English Units Measurements:

2 - Place Dims +/- .01 & 3 - Place Dims +/- .005



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ALWAYS MEASURE AND RELY ON THE KIT PARTS FOR ACCURACY.

Kit Supplier	Kit Description	Upper Body Tubes			Upper Body			Lower Body Tubes			Lower Body		
		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.
Penn State	Toys & Games - Baseball Bat (PSI)	x	x	37.00	x	x	x	x	x	x	x	x	x
Penn State	Toys & Games - CD ROM Top (PSI)	Spinner Handle	x	x	x	x	x	7mm or J	0.268	0.88	0.331	x	0.331
Penn State	Toys & Games - Chessmen (PSI)	1.25 & 1.50 or 28.6mm & 38.1mm	x	6.00 to 9.00	x	x	x	x	x	x	x	x	x
Penn State	Toys & Games - Darts (PSI)	7mm or J	0.268	2.75	0.331	x	0.331	x	x	x	x	x	x
Penn State	Toys & Games - Fidget Beads - Begleri (PSI)	8mm or O	0.311	?	0.703	0.286	0.703	x	x	x	x	x	x
Penn State	Toys & Games - Kaleidoscope - Eggoscope (PSI)	13/16 or 20.7mm	x	2.25	0.873	0.806	0.873	x	x	x	x	x	x
Penn State	Toys & Games - Kaleidoscope - Necklace (PSI)	12.5mm or 0.492	0.483	1.30	0.592	0.460	0.592	x	x	x	x	x	x
Penn State	Toys & Games - Kaleidoscope - Steampunk (PSI)	45/64 & 7/8 or 18mm & 22.2mm	x	2.19	1.200	0.700	1.350	x	x	x	x	x	x
Penn State	Toys & Games - Kaleidoscope - Wand (PSI)	13/16 or 20.7mm	x	2.19	0.873	0.806	0.873	x	x	x	x	x	x
Penn State	Toys & Games - Pool Cue (PSI)	x	x	30.00	x	x	x	x	x	30.00	x	x	x
Penn State	Toys & Games - Slingshot (PSI)	1/2 or 12.6mm	x	2.56	x	x	x	Metal Yoke	x	x	x	x	x
Penn State	Toys & Games - Spinning Top - Ball Bearing (PSI)	10mm or 25/64	0.385	1.50	0.450	0.357	0.450	Top	x	x	x	x	x
Penn State	Toys & Games - Yo-Yo - Ball Bearing (PSI)	10mm or 25/64	0.385	0.62	0.450	0.357	0.450	10mm or 25/64	0.385	0.62	0.450	0.357	0.450
Penn State	Traditional Screw Cap RB & FP (PSI)	10mm or 25/64	0.385	2.19	0.450	0.357	0.450	10mm or 25/64	0.385	2.19	0.450	0.357	0.450
Penn State	Trimline Click Pencil (PSI)	7mm or J	0.268	2.00	0.347	x	0.440	7mm or J	0.268	2.00	0.440	x	0.331
Penn State	Trimline Twist BP (PSI)	7mm or J	0.268	2.09	0.347	x	0.440	7mm or J	0.268	2.09	0.440	x	0.331
Penn State	Tudor Twist BP (PSI)	3/8 or 9.5mm	0.368	3.15	0.472	0.345	0.472	x	x	x	x	x	x



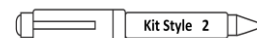
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Penn State Kit Bushing & Tube Refs.
Imperial English Units Revised 7-2-2023
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Typical Mandrel Dia. Sizes
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Kit Supplier	Kit Description	Category & Size	Kit Style	Replacement Tubes	Bushing Set
Penn State	Tycoon Closed End RB or FP (PSI)	Large Sized RB or FP Pens	3	PKTYCTU or PKT125-6 & PKT105-6	PKAPCEBU
Penn State	Tycoon Screw Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	PKTYTU or X & PKT10-6 (10 inch)	PKTYBU
Penn State	Vertex Bolt Action BP (PSI)	Medium Sized Single Tube BP Pens	2	PKT10-6 (10 inch)	PKFP4500BU
Penn State	Vertex Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKFP4000TU or PKT38-8 (10 inch)	PKFPBU
Penn State	Vertex Click Pencil (PSI)	Medium Sized Single Tube Pencils	1	PKFP4000TU or PKT38-8 (10 inch)	PKFPBU
Penn State	Vertex Magnetic Cap RB or FP (PSI)	Medium Sized Single Tube RB or FP Pens	3	PKFP5000TU or PKT105-6	PKFP5000BU
Penn State	Vertex Supreme Magnetic Cap RB or FP (PSI)	Large Sized RB or FP Pens	3	PKFP5500TU or PKT125-6 & PKT105-6	PKGRAD2BU
Penn State	Vesper Click BP (PSI)	Medium Sized Single Tube BP Pens	1	PKVEPTU or PKT10-6 (10 inch)	PKVESBU
Penn State	Vesper Click BP with Stylus Tip (PSI)	Medium Sized Single Tube BP Pens with Stylus	1	PKVESTU or PKT10-6 (10 inch)	PKVESBU
Penn State	Victorian Screw Cap RB or FP (PSI)	Ornate Large Sized RB or FP Pens	3	Modify PKGRAD2TU or PKT125-6 & PKT105-6	PKVICRBU
Penn State	Victorian Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKVICBU
Penn State	Whistle BP - Mini (PSI)	Slim Sized BP Pens	2	PKT7-10 (10 inch)	PKMBUSH3
Penn State	Wild Card Twist BP (PSI)	Ornate Large Sized BP Pens	2	PKT38-8 (10 inch)	PKVICBU
Penn State	Woody Press Pen and Pencil 2mm Lead (PSI)	Large Sized Single Tube Workshop BP Pens & Pencils	1	PKT8-8 (10 inch)	PKWDYBU
Penn State	Yoga Twist BP (PSI)	Ornate Medium Sized BP Pens	2	PKT38-8 (10 inch)	PKYOGABU

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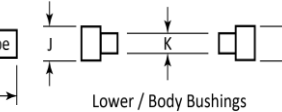
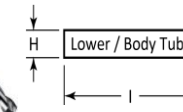
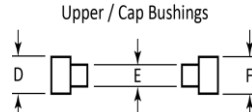
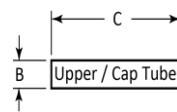
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		A Drill Dia.	B Dia.	C Length	D Dia.	E Dia.	F Dia.	G Drill Dia.	H Dia.	I Length	J Dia.	K Dia.	L Dia.
Penn State	Tycoon Closed End RB or FP (PSI)	12.5mm or 0.492	0.483	1.81	0.563	0.460	x	10.5mm or Z	0.400	2.08	0.480	0.376	x
Penn State	Tycoon Screw Cap RB or FP (PSI)	12mm or 15/32	0.450	1.81	0.563	0.429	0.535	10mm or 25/64	0.385	2.13	0.480	0.357	0.480
Penn State	Vertex Bolt Action BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.09	0.494	0.357	0.494
Penn State	Vertex Click BP (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.91	0.433	0.345	0.433
Penn State	Vertex Click Pencil (PSI)	Metal Cap	x	x	x	x	x	3/8 or 9.5mm	0.368	2.91	0.433	0.345	0.433
Penn State	Vertex Magnetic Cap RB or FP (PSI)	Metal Cap	x	x	x	x	x	10.5mm or Z	0.400	2.38	0.460	0.376	0.460
Penn State	Vertex Supreme Magnetic Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.69	0.551	0.460	0.575	10.5mm or Z	0.400	2.63	0.516	0.376	0.516
Penn State	Vesper Click BP (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.28	0.475	0.357	0.475
Penn State	Vesper Click BP with Stylus Tip (PSI)	Metal Cap	x	x	x	x	x	10mm or 25/64	0.385	2.64	0.475	0.357	0.475
Penn State	Victorian Screw Cap RB or FP (PSI)	12.5mm or 0.492	0.483	1.37	0.555	0.460	0.545	10.5mm or Z	0.400	2.28	0.545	0.376	0.545
Penn State	Victorian Twist BP (PSI)	3/8 or 9.5mm	0.368	1.34	0.550	0.345	0.550	3/8 or 9.5mm	0.368	1.34	0.550	0.345	0.550
Penn State	Whistle BP - Mini (PSI)	7mm or J	0.268	1.50	0.331	x	0.331	7mm or J	0.268	1.50	0.331	x	0.331
Penn State	Wild Card Twist BP (PSI)	3/8 or 9.5mm	0.368	1.50	0.550	0.345	0.550	3/8 or 9.5mm	0.368	1.97	0.550	0.345	0.550
Penn State	Woody Press Pen and Pencil 2mm Lead (PSI)	8mm or O	0.311	3.90	0.585	0.286	0.366	x	x	x	x	x	x
Penn State	Yoga Twist BP (PSI)	3/8 or 9.5mm	0.368	1.49	0.446	0.345	0.469	3/8 or 9.5mm	0.368	1.95	0.474	0.345	0.425

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