

**NEW!** Item

### BUSHNELL BORESIGHTERS

**Fast, Accurate Sight-In System Gets "On Paper" Without Firing A Shot**



Optical collimators save you time and ammunition by getting your rifle or handgun "on paper" without firing a shot. Gives hunters, target shooters, and gunsmiths the convenience of initial sighting-in of scopes and sights at home or in the shop. Easy-to-use: attach collimator to the muzzle, then adjust the windage and elevation of the scope or iron sights until they align with the collimator grid. Sights centered on the grid will shoot very close to point-of-aim at 100 yards. Collimator is CNC-machined from aluminum, then hard-coat anodized to protect the finish from nicks, dings, and surface wear. Includes convenient carrying case that protects from damage and keeps each item clean and ready to use. **Standard** model features 15 steel arbors that fit bores ranging from .177 to .50 caliber, including popular metric calibers, to provide precise alignment with the collimator for extremely accurate sight adjustment. Roll-up storage case easily fits in your range bag or tool box. **Professional** model has adjustable arbors for .22 to .270, 7mm to .35, and .35 to .45 calibers. Everything fits in the included hard-sided carrying case. Magnetic model works on all calibers and firearm types. Attaches directly to the muzzle and eliminates the need for inserts or arbors. Cloth carrying case with pull cord for easy closing and secure storage. **.50 Cal. Up To 12 Ga. Arbor** - Enables use of Standard or Professional kit on large caliber/gauge guns, including muzzle loaders. **SPECS:** Collimator - Aluminum, hardcoat anodized finish, matte black. **Standard** contains (1) insert of each caliber: .177, .22, .25, .27, 6mm, 6.5mm, 7mm, .30, .32, .338, .35, .375, .44, .45, .50. Collimator - 4 3/4" (12cm) long. Inserts - Steel, 3/4" (9.5cm) long. Case - Vinyl, black. 3/4" (8.2cm) diameter x 5 1/2" (14cm) wide, rolled up. **Professional** contains 3 adjustable inserts: .22 to .270, 7mm to .35, and .35 to .45 calibers. Inserts - Steel, expandable, 4 1/2" (11cm) long. Collimator - 4 3/4" long. Case - Vinyl covered, hard sided, black. 5-3/8" (13.6cm) long x 2-3/8" (5.4cm) wide, 3 1/2" (9cm) high. Magnetic - Collimator - 3/4" long. Case - Cloth, black.

- #593-000-053AS Standard Boreighter, 2B76F68 ..... \$ 81.99
- #593-000-052AS Professional Boreighter, 2B89M75 ..... 105.99
- #593-000-051AS Magnetic Boreighter, 2B39I97 ..... 42.99
- #593-000-172AS .50 Cal. Up To 12 Ga. Arbor, 7K12N70 ..... 13.99

### SIGHTMARK LASER BORESIGHTER



**Chamber-Mounted Laser Helps You Sight In Rifle Or Pistol Without Firing A Shot**

Easy-to use bore sighting system fits in the chamber of your rifle or pistol and projects a powerful red laser beam aligned with the bore axis for sighting to the point of aim without firing a shot. Works with scopes, holographic red dot sights, and "iron" sights. Centerfire boresighters contain the entire laser system and batteries in the size of a normal cartridge case. Rimfire models have a cartridge-sized laser unit that goes into the chamber and a magnetic external battery holder that sticks to the receiver for hands free operation. Simply insert laser into chamber, gently close the action far enough to secure the laser, and aim at a target 20-30 yards away. Adjust windage and elevation while compensating for the height of the scope, then head to the range for test shots and final adjustments. Boreighter stores easily in the included nylon carrying case that fits easily in a pocket, tool kit, or range bag. Available in a variety of calibers listed below. **SPECS:** Machined brass. Laser wavelength, 632-650 nm. Sighting range, 15-100 yards. Dot size, 2" at 100 yards. Includes (2) AG5 button cell batteries, nylon carrying case, and instructions. **.223 Rem** also fits. **.222 Rem**, 5.56 x 45 NATO, 5.6 x 50, 6 x 47, **7mm Rem**, **.264 Win** also fits **8mm Rem**, **.338 Win**. **.30-06** also fits. **.25-06**, **.270 Win**, **.280 Rem**, **7mm Express**, **7.7 Japanese**, **8mm-06**, **.338-06**, and **.35 Whelan**. **.308** also fits **6mm Rem**,

### SWEANY SITE-A-LINE BORESIGHTER



**Instant, Accurate Boreighting For Iron & Optical Sights**

Pays for itself in sight-in time and ammunition saved. Diagonal, crosshair reticle and parallax-adjusted optics provide a simple, accurate method to set the sighting plane on any firearm parallel to the bore axis. Chrome-plated, precision-ground spuds with bronze springs. **SPECS:** 4 1/2" (10.8cm). Tapers from 1.7" (4.3cm) to 1" (2.5cm) dia. Kit includes Boreighter and 16 spuds in a fitted styrene box. Bore spuds for calibers not listed available on special order basis. \*Indicates Bore Spuds included in Site-A-Line Kit. H indicates handgun, R indicates rifle, A/G indicates airgun.

- #034-100-000AS Site-A-Line Kit, 4C262L26 ..... \$ 345.00

STOCK #	DIAMETER	FITS
#034-100-167AS	.167"	.17 Rem
#034-100-173AS	.173"	.177S A/G
#034-100-001AS	.199"	.204S
#034-100-215AS	.215"	.22 H/R
#034-100-217AS	.217"	.22 R
#034-100-235AS	.235"	.243 R
#034-100-255AS	.255"	.264 R
#034-100-269AS	.269"	.270 R
#034-100-275AS	.275"	7mm R
#034-100-299AS	.299"	.30 R
#034-100-329AS	.329"	.338 R

- Advise # — Sweany Bore Spud, 4C12A01 ..... \$ 15.99

**SWEANY M16/AR-15 BORE SPUD** - Extra length and height. 5" (12.7cm) long, 1 1/8" (9cm) high. Aluminum block, steel spud. **SPECS:** 4C11H68 ..... \$ 39.99

**LONG BORE SPUD** - For .22 caliber rifles equipped with muzzle brakes or flash suppressors. 5 1/2" (14cm) long, .217" diameter. **SPECS:** 4C15H83 ..... \$ 20.99

**EXTRA-LONG BORE SPUD** - 8" (20cm) long to clear flash suppressor on M14/M1A and other .30 caliber rifles. **SPECS:** 4C16H92 ..... \$ 20.99

.243 Win, .257 Roberts, .260 Rem, .284 Win, 7x57 Mauser, 7mm 08, 8mm Mauser, .307, .356, and .358 Win. 22 LR and 17 HMR boresighters use 2 AAA batteries (included) in an external pack.

- #100-004-011AS .223 Rem Laser Boreighter, 8A27K86 ..... \$ 30.00
- #100-004-014AS 7mm Rem/.264 Win. Laser Boreighter, 8A27F86 ..... 30.00
- #100-004-013AS .30-06 Laser Boreighter, 8A27G86 ..... 30.00
- #100-004-015AS .308 Laser Boreighter, 8A27M86 ..... 30.00
- #100-014-688AS .300 AAC Blackout Boreighter, 8A33E34 ..... 39.99
- #100-004-012AS 7.62x39 Laser Boreighter, 8A27H86 ..... 30.00
- #100-004-016AS 9mm Luger Laser Boreighter, 8A27E86 ..... 30.00
- #100-004-017AS .40 S&W Laser Boreighter, 8A27L86 ..... 30.00
- #100-004-018AS .45 ACP Laser Boreighter, 8A27H86 ..... 30.00



### SITE-LITE SL-100 LASER BORESIGHTER

**Gets You Close To Point-Of-Aim Without Firing A Shot**



The SL-100 laser system saves you range time and ammo by helping you zero your scope to point-of-aim at 100 yards, without firing a shot. Easy to use: place the special laser target 25 feet away, insert the laser unit's spud into the muzzle - it self-centers in the bore. Then aim the laser at the target and adjust the scope till the crosshairs align with the target. Works just as well with red dot scopes and iron sights. No metal contacts the rifling, and it's all self-contained. The SL-100 comes with a set of adapters so it will fit all firearms from .22 to .50 caliber, plus 12 and 20 gauge shotguns. Included SRL-100 attachment converts it into a scope reticle leveler by refocusing the laser to a horizontal beam for precise crosshair alignment. Works best indoors, where you have control over ambient lighting. Includes complete instructions and two #357/LR-44 batteries.

- #100-000-843AS SL-100 Laser Boreighter, 8K112M20 ..... \$ 116.60

### ALLEY SUPPLY COLLIMATOR EXTENSION

**Bore Sights "Tall" Scopes Easily**



Gets the boreighter up high to align the scope on guns with see-through rings or integral mounts (like the AR-15) that sit high above the bore. "V"s give a range of 1" to 2 1/8" between the bore and collimator spuds. Accepts Sweany, Redfield or Tasco spuds. **SPECS:** Aluminum body, brass and steel screws. 3 3/16" (9.7cm) long, 1" (2.5cm) wide, 1/8" (22.2mm) thick. Weighs 4 oz. "V" spacings of 1", 1 1/8" (3.5cm) and 2 1/8" (6cm). Does not accept Bushnell spuds.

- #034-101-000AS Collimator Extension, 4C27N31 ..... \$ 34.99

### W. FREAR INNOVATIONS COLLIMATOR ELEVATOR

**Adapts Your Collimator For Use With Large Objective Optics**



Precision-manufactured device greatly extends the use and range of your optical collimator for rifles equipped with large objective scopes or scopes mounted in rings high above the centerline of the bore. Very easy to use: Mount your collimator onto the elevation arm, insert your bore spud into the elevator block, then lock with thumbscrew. Insert your spud into the bore and move elevation shaft up or down. Adjust the collimator so its grid view is near the center of the objective lens, and lock collimator height with second thumbscrew. **NOTE:** Can be used with any bore spud or arbor 1/2" or smaller to include expandable arbors. **SPECS:** Elevator Block - Aluminum. 1 1/4" (4.5cm) long, 3/4" (1.9cm) wide, 1 1/4" high. Elevation Shaft - Stainless steel. 1/4" (6.3mm) diameter. Elevation Arm - Aluminum. 1/8" (9.5mm) diameter. Includes instructions.

- #100-002-512AS Collimator Elevator, 5A89P99 ..... \$ 89.99

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### BROWNELLS

### MILITARY WEAPON TAKEDOWN TOOL

**Dozens Of Uses In Field Stripping A Variety Of Military Firearms**



Handy steel tool eases the task of field stripping a variety of military weapons, including the AR-15/M16/M4, M14, and L1A1 rifles, as well as the M2 and M240 machine guns. Use the pointed end to remove pins, retainers, clips, and other subassemblies—much easier than using the tip of a cartridge. The other end can serve as a slot-tip screwdriver or pry bar. Deeply knurled handle won't slip and has a solid feel in the hand; adjust handle position by loosening the two hex head screws. Dozens of uses on the workbench and in a field tool kit. **SPECS:** Steel, black oxide finish. 7 1/2" (18.4 cm) long.

- #080-000-580AS Military Weapon Takedown Tool, 8K22N95 ..... \$ 29.95

### TANGODOWN FN SCAR ARMORER'S BLOCKS



**Protects Critical Components From Damage When Clamping For Maintenance**

High-density polymer blocks allow critical subassemblies of the SOF Command Assault Rifle (SCAR) to be tightly clamped in a vise without danger of crushing, twisting, or otherwise distorting them. Provides secure support for safe, effective cleaning, adjustment, maintenance, and repair without marring or scratching the finish. Upper Receiver/Barrel Block surrounds the front sight/gas block to securely hold the upper receiver/barrel module while also protecting the exposed portion of the gas system. Lower Receiver/Trigger Module Block locks into the magazine well and absorbs all the clamping force to protect the SCAR's polymer lower receiver from damage. One end fits the 5.56x45mm SCAR-L; flip the block around and other end fits the 7.62x51mm SCAR-H. Bolt Maintenance Block gives proper support to disassemble the bolt for cleaning or repair. **SPECS:** High-density, injection-molded polymer.

- #100-003-431AS SCAR Armorer's Block Set, 9B147N47 ..... \$ 169.95
- #100-003-470AS SCAR Upper Rec'r/Barrel Vise Block, only, 9B60M10 ..... 69.90
- #100-003-428AS SCAR Lower Rec'r/Trigger Module Block, only, 9B43B65 ..... 49.95

### BORKA ENTERPRISES FN SCAR 16/17 PRECISION TORQUE LIMITER KIT

**Pre-Set To Correct Torque Setting For SCAR Work**



Handy kit includes a compact ratchet drive handle, plus a 62 inch-lb. torque limiter that ensures you apply the exact amount of required torque - no more, no less - for barrel changes on any FN SCAR rifle. Even includes the correct-size T25 Torx® bit, so you have everything to make the barrel change safely without damaging the rifle. Comes in a sturdy nylon belt pouch, so it can go wherever you and your rifle go. Includes certificate of calibration and user's guide.

- #100-014-413AS PTL-062K FN SCAR Precision Torque Limiter Kit, 1D53157 ..... \$ 59.99

Orders/Tech: 800-741-0015

order on the web **brownells.com**

**BROWNELLS** PAGE 465

GENERAL GUNSMITH TOOLS

BORESIGHTERS

SPECIALTY RIFLE TOOLS

**BROWNELLS TACTICAL RIFLE FIELD MAINTENANCE PACKS**



M16/M4 Field Pack

Complete, Dedicated Kits For Field Repair & Maintenance Of Tactical Rifles

These compact, model-specific field maintenance packs provide the soldier or law enforcement personnel with all the tools required to field strip, repair, and maintain tactical rifles while on the move. These are not run-of-the-mill generic tool kits, but carefully selected, high-quality field armorer tools dedicated to specific weapons. Individual pouches and compartments inside the water- and abrasion-resistant Cordura® nylon case keep tools secure and separated to help minimize noise that could jeopardize your mission. Nylon grab handles for easy carry, and quiet #9 YKK zippers with oversized pulls make it fast and easy to get tools in and out. Front panel features clear I.D. card sleeve and loop strip for name tape.

**M16/M4 FIELD PACK** - Allows complete weapon breakdown for routine maintenance and repair, plus includes tools for sight adjustments and field cleaning of the Colt M16/M4. Includes special tools for removal of barrel nut, flash hider and lower receiver extension without damage to any rifle component.

**SPECS:** Includes: #81 MAGNA-TIP® hollow screwdriver handle w/ Leupold windage (L/B) and #185-10 bits; 1/16", 1/8" and 1/4" pin punches; 1/2" drive handle; 3/4" nylon/brass hammer; buttstock tool; combination wrench; lower receiver vice block; A1/A2 sight wrench; carrier carbon scraper; Deluxe model buttstock cleaning kit. Approx. 5 lb. (2.3 kg) wt.

#080-000-458AS M16/M4 Field Pack, 8K249F66 . . . . . \$ 259.99

**REMINGTON 700 FIELD PACK** - Field tool kit maintains Remington 700 sniper rifles while out on deployment. Includes all special armorer tools, punches, wrenches, screwdriver handle and bit for complete rifle disassembly (except barrel removal), including breakdown of the complete bolt assembly.

**SPECS:** Includes: Magnetic Law Enforcement MAGNA-TIP® screwdriver handle w/ #185-3 bit, extractor rivet anvil, firing pin tool, bolt brush, rifle bench block, 45 in.-lb. torque T-handle, 1/2" square-to-hex drive converter, ball-hex "L" wrench set, bolt ejector tool set, bolt disassembly tool, nylon/brass hammer, 1/8" and 1/16" pin punches, .120" brass alignment/push punch, 12"x24" bench/field mat. Approx. 5 lb. (2.3 kg) wt.

#080-000-457AS Rem. 700 Field Pack, 8K355H81 . . . . . \$ 420.99

**RUGER MINI-14 FIELD PACK** - Each tool in this kit serves a specific purpose in helping you keep your .223 carbine functioning reliably. Contains all of the correct-size pin punches and screwdriver bits needed for full field stripping, plus a rear sight adjustment tool designed specifically for the Ruger® Mini-14®.

**SPECS:** Includes: #84 MAGNA-TIP® hollow screwdriver handle w/#185-0, #185-10, #300-4, and #360-4 bits; 1" nylon/brass hammer; 1/8" and 1/16" roll pin punches; 1/8" and 1/16" roll pin holders; .092", .120", and .151" steel pin punches; rear sight adjustment tool; 4" diameter polyethylene bench block; 12" x 24" bench/field gun mat. Approx. 5 lb (2.3kg) wt.

#080-000-483AS Mini-14 Field Pack, 8K163K76 . . . . . \$ 186.99

**FOREIGN WEAPONS FIELD PACK** - Contains tools for servicing a variety of Soviet-type foreign weapons, including the AK-47/ AKM assault rifle, PK/PKM/PKMS 7.62mm machine gun, Dragunov SVD sniper rifle, DShK/DShKM 12.7mm machine gun, and RPG-7 grenade launcher. Lets you field-strip these weapons quickly for cleaning, maintenance, adjustment, and repair without the confusion and down time spent scrounging for the proper tools.

**SPECS:** Kit includes 7.62 x 39 broken shell extractor, 7.62 x 54R broken shell extractor, 7.62 x 39 Go/No-Go gauges, 7.62 x 54R Go/No-Go gauges, AK-47/SKS front sight tool, No. 10 slot head screwdriver, 6" chain nose

**BROWNELLS FN SCAR 16S/17S ARMORER'S TOOL**



Essential, Specialized Tools For SCAR Work

Specialized tools equip you to properly perform common work on SCAR 16S and 17S rifles, including barrel changes, bolt maintenance, and trigger installation. **Barrel Straightness Gauge** ensures proper alignment when reinstalling barrels. **Ejector Removal Tool** enables easy removal of ejector from bolt body on both 16S and 17S guns. **Trigger Module Mounting Axis** guides the trigger module properly into the trigger housing for fast, correct trigger installation; works on 16S and 17S SCARs.

**SPECS:** Hardened steel, black oxide finish.

#080-000-978AS 16S 5.56 Barrel Straightness Gauge, 8K12CG68 . . . . . \$ 19.99

#080-000-979AS 17S 7.62 Barrel Straightness Gauge, 8K12D68 . . . . . 19.99

#080-000-980AS Ejector Removal Tool, 8K12A68 . . . . . 19.99

#080-000-982AS Trigger Module Mounting Axis, 8K12N68 . . . . . 19.99



**BROWNELLS BROKEN SHELL EXTRACTOR**

Easily Removes Broken Cases Without Field Stripping



Case head separation from over-fired or out of spec brass won't ruin your shooting experience if you keep one of these handy tools in your pocket or field kit. Hardened, steel tool reliably and easily removes broken cases from AR-type or any other firearm chambered for the .223/5.56 NATO or .308/7.62 NATO cartridges. Exclusive, threaded, two-piece design is adjustable for overall length, so the tool completely engages the rim of the case mouth; cannot slip through or strip out. Very simple to use, drop the broken shell extractor into the chamber directly inside the broken case. Allow the bolt to close so the extractor engages the rim of the tool and draw back the bolt to open the chamber. The broken case will eject along with the broken shell extractor.

**SPECS:** Steel, blue. Models for .223 Remington/5.56 NATO or .308 Winchester/7.62 NATO cartridges.

#080-000-441AS .223 Broken Shell Extractor, 8K18E21 . . \$ 19.99

#080-000-530AS .308 Broken Shell Extractor, 8K21P42 . . 22.99

pliers, 1" nylon/brass hammer, 4 oz. ball peen hammer, 6" adjustable crescent wrench, 6" mill file, starter punch set (1/8", 1/16", 3/32", 1/8" & 3/16"), pin punch set (1/16", 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/2", 2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 28", 32", 36", 40", 48", 60", 72", 84", 96", 108", 120", 144", 168", 192", 216", 240", 264", 288", 312", 336", 360", 384", 408", 432", 456", 480", 504", 528", 552", 576", 600", 624", 648", 672", 696", 720", 744", 768", 792", 816", 840", 864", 888", 912", 936", 960", 984", 1008", 1032", 1056", 1080", 1104", 1128", 1152", 1176", 1200", 1224", 1248", 1272", 1296", 1320", 1344", 1368", 1392", 1416", 1440", 1464", 1488", 1512", 1536", 1560, 1584, 1608, 1632, 1656, 1680, 1704, 1728, 1752, 1776, 1800, 1824, 1848, 1872, 1896, 1920, 1944, 1968, 1992, 2016, 2040, 2064, 2088, 2112, 2136, 2160, 2184, 2208, 2232, 2256, 2280, 2304, 2328, 2352, 2376, 2400, 2424, 2448, 2472, 2496, 2520, 2544, 2568, 2592, 2616, 2640, 2664, 2688, 2712, 2736, 2760, 2784, 2808, 2832, 2856, 2880, 2904, 2928, 2952, 2976, 3000, 3024, 3048, 3072, 3096, 3120, 3144, 3168, 3192, 3216, 3240, 3264, 3288, 3312, 3336, 3360, 3384, 3408, 3432, 3456, 3480, 3504, 3528, 3552, 3576, 3600, 3624, 3648, 3672, 3696, 3720, 3744, 3768, 3792, 3816, 3840, 3864, 3888, 3912, 3936, 3960, 3984, 4008, 4032, 4056, 4080, 4104, 4128, 4152, 4176, 4200, 4224, 4248, 4272, 4296, 4320, 4344, 4368, 4392, 4416, 4440, 4464, 4488, 4512, 4536, 4560, 4584, 4608, 4632, 4656, 4680, 4704, 4728, 4752, 4776, 4800, 4824, 4848, 4872, 4896, 4920, 4944, 4968, 4992, 5016, 5040, 5064, 5088, 5112, 5136, 5160, 5184, 5208, 5232, 5256, 5280, 5304, 5328, 5352, 5376, 5400, 5424, 5448, 5472, 5496, 5520, 5544, 5568, 5592, 5616, 5640, 5664, 5688, 5712, 5736, 5760, 5784, 5808, 5832, 5856, 5880, 5904, 5928, 5952, 5976, 6000, 6024, 6048, 6072, 6096, 6120, 6144, 6168, 6192, 6216, 6240, 6264, 6288, 6312, 6336, 6360, 6384, 6408, 6432, 6456, 6480, 6504, 6528, 6552, 6576, 6600, 6624, 6648, 6672, 6696, 6720, 6744, 6768, 6792, 6816, 6840, 6864, 6888, 6912, 6936, 6960, 6984, 7008, 7032, 7056, 7080, 7104, 7128, 7152, 7176, 7200, 7224, 7248, 7272, 7296, 7320, 7344, 7368, 7392, 7416, 7440, 7464, 7488, 7512, 7536, 7560, 7584, 7608, 7632, 7656, 7680, 7704, 7728, 7752, 7776, 7800, 7824, 7848, 7872, 7896, 7920, 7944, 7968, 7992, 8016, 8040, 8064, 8088, 8112, 8136, 8160, 8184, 8208, 8232, 8256, 8280, 8304, 8328, 8352, 8376, 8400, 8424, 8448, 8472, 8496, 8520, 8544, 8568, 8592, 8616, 8640, 8664, 8688, 8712, 8736, 8760, 8784, 8808, 8832, 8856, 8880, 8904, 8928, 8952, 8976, 9000, 9024, 9048, 9072, 9096, 9120, 9144, 9168, 9192, 9216, 9240, 9264, 9288, 9312, 9336, 9360, 9384, 9408, 9432, 9456, 9480, 9504, 9528, 9552, 9576, 9600, 9624, 9648, 9672, 9696, 9720, 9744, 9768, 9792, 9816, 9840, 9864, 9888, 9912, 9936, 9960, 9984, 10000.

#080-000-522AS Foreign Weapons Field Maintenance Pack, 8K356Q12 . . . . . \$ 376.99

**FIELD PACK CASE** - The same, heavy-duty, Cordura field case included with our Weapons Field Maintenance Packs. Made available separately for your additional tactical gear and accessories.

**SPECS:** Denier Cordura nylon, O.D. green. 12" (30.5cm) long, 10 1/2" (26.7cm) high, 3 1/2" (8.9cm) thick.

#080-000-459AS Field Pack Case, Only, 8K69C66 . . . . . \$ 75.99



**TAPCO AK-47 AK VISE BLOCK**

Holds Rifle Securely For Work Or Repair

Tough composite block inserts into Kalashnikov magazine well and locks into place, letting you mount the rifle into a bench vise for work, repair or upgrades. Upper geometry replicates AK-47 magazine dimensions for secure fit. Lower part is beefy to give vise jaws good purchase.

Hang hole lets you store it on a shop peg board.

#100-013-725AS AK Magazine Vise Block, 5A12C07 . . . \$ 12.99

**KLEINENDORST REM 700 BARREL TOOL**

Stops Lug "Cant" When Tightening Barrel



A precisely milled slot in the front of the tool holds the lug in proper alignment as you tighten the barrel into the receiver.

**SPECS:** Aluminum, anodized, matte finish. 8 oz. (227 g). 1 1/4" (4.8 cm) long, 1 1/2" (4.9 cm) wide, 1/8" (7.9 mm) thick. F/S fits factory and Shilen lugs, T fits Tubb, H fits Holland.

#488-004-700AS F/S 700 Barrel Lug Tool, 8H37J51 . . . \$ 40.99

#488-004-701AS T 700 Barrel Lug Tool, 8H37I51 . . . . 40.99

#488-000-002AS H 700 Barrel Lug Tool, 8H37C51 . . . . 40.99

**C.J. WEAPONS**

**BROKEN SHELL EXTRACTORS**



Fast, No-Fuss Removal Of Stuck Cases

Don't let case head separation put an end to your day at the range or in the field. Simple, reliable tool quickly and easily removes a stuck case from the chamber. Make sure gun is unloaded, then insert the shell extractor in the chamber and close the action, then insert the shell extractor into the chamber and close the action, the back of the tool takes the place of the missing case head, while the springy steel fingers slide through the case neck and expand to positively grab the case mouth. Manually work the action to extract the broken shell and the tool. Carry one in your pocket when shooting as cheap insurance against having your range day or hunt cut short. Fits ONLY the specified caliber.

**SPECS:** Steel, blued. Models available for the calibers listed below.

#100-005-992AS .223/5.56 Broken Shell Extractor, 5K8G20 . . . . . \$ 9.99

#100-003-126AS .308/7.62 Broken Shell Extractor, 5K8K20 . . . . . 9.99

#100-003-127AS .30-06 Broken Shell Extractor, 5K8K20 . . . . . 9.99

#100-005-993AS .30 Carbine Broken Shell Extractor, 5K8G20 . . . . . 9.99

#100-005-755AS .300 Win. Mag. Broken Shell Extractor, 5K8N20 . . . . . 9.99

#100-003-128AS 7.62 x 39 Broken Shell Extractor, 5K8F20 . . . . . 9.99

#100-003-160AS 7.62 x 54R Broken Shell Extractor, 5K8A20 . . . . . 9.99

#100-005-994AS .303 British Broken Shell Extractor, 5K8Q20 . . . . . 9.99

#100-005-995AS 8mm Mauser Broken Shell Extractor, 5K8K20 . . . . . 9.99

**BROWNELLS SCAR 16S/17S FN SCAR ARMORER'S KIT**



All The Tools To Repair & Maintain FN's 21st Century Battle Rifle

Extensive armorer's kit has all the tools needed as specified by FN to properly service and repair the SCAR combat rifle system, all stowed in a heavy-duty armorer's bag for easy transport and storage. The kit includes the following items: Tangodown Armorer's Block Set, 3/8" torque wrench with crowfoot wrench attachments specific to the 16S/17S, Magna-Tip® torque handle and bits specific to the 16S/17S, ball peen hammer, needle nose pliers, dental explorers, combination wrenches, (2) leather vise jaws, trigger scale, brass brush, punches and roll pin holders, 5.56 & 7.62 Go & No Go headspace gauges, 5.56 & 7.62 barrel straightness gauges, ejector removal tool and ejector installation tool, trigger mounting axis pin, heat gun for barrel removal, Loctite 603 50ml, Rocksett 2oz, and armorer's bag.

#080-001-031AS FN SCAR Armorer's Kit, 8K947A72 . . \$ 999.00



**ACCUTEC RUGER® 10/22® BARREL PUSHER**

Easily Removes The Barrel From The Receiver



Barrel removal tool slips into a field-stripped receiver and lets you apply controlled mechanical leverage to gently push the 10/22's friction-fit barrel from the receiver with a simple twist of a screw. Eliminates the traditional vise-and-wrench method, which can damage the barrel or receiver. Eases the chore of swapping out the factory barrel for an upgrade to an aftermarket target, match, or bull barrel. Works on any caliber 10/22® barrel. Scopes or other mounted optics can be left on the receiver. Rugged, machined tool steel construction with a non-marring Delrin® pusher.

**SPECS:** A2 tool steel, black, with Delrin pusher. Approximately 3 1/8" (8.1cm) long, 1 1/8" (2.4cm) wide, 1 1/4" (4.7cm) tall. 5.5 oz. (156g) weight.

#100-006-354AS 10/22 Barrel Pusher, 7Z45A97 . . . . . \$ 49.99

**MENCK REMINGTON 742, 4, 7400 WRENCH**



Strongest Barrel Nut Wrench Available For These Guns

The strongest barrel nut wrench available, this heavy duty professional tool is a must for every shop. An integral web between the "jaws" of the wrench makes it substantially stronger than any other design.

**SPECS:** 6" (15.2cm) x 1" (2.5cm) x 1/2" (12.7mm), blued finish, hardened. 4.140 steel. 11 oz. (312 g).


#590-012-742AS Menck 742 Wrench, 9E41K99 . . . . . \$ 41.99





## AK-BUILDER AK-47/AKM/AK-74 GUNSMITHING TOOLS

Professional Tools For Precision Results

Heavy-duty bench tools were designed by the Kalashnikov experts at AK-Builder to build custom AK-pattern rifles using receiver flats and commercial parts to achieve professional results. Each jig and fixture is manufactured to correct dimensions to ensure properly-fitting finished components. Made from rugged, durable hardened steel or 6061 aluminum, so they will provide years of dependable service. 

**RECEIVER FLAT BENDING DIE SET** - Complete jig set has everything you need to properly bend and form a 1mm thick AK receiver flat to the correct angles using a 12-ton (or more) shop press. A must-have item for building new receivers for custom rifles.

**SPECS:** Machined steel, black oxide finish. For use with 1mm thick receiver flats only. Illustrated instructions included.

**#100-006-748AS Receiver Flat Bending Die Set, 4K173J99..... \$ 173.99**

**BARREL PRESS KIT** - Provides full support to the barrel, receiver and trunnion for barrel removal, installation, and cross-pinning without damage. Use in your 12 ton hydraulic shop press to complete barrel removal and installation on any model of AK-pattern rifle with a stamped sheet metal receiver. Includes machined aluminum trunnion support plate, steel press ram adapter cup, steel receiver support bars, machined steel alignment pins, steel trunnion support plate, barrel pressing bolt with brass alignment nut, and complete instructions.

**SPECS:** Steel, black finish; bolts are cadmium plated or in-the-white. Trunnion support plate - Aluminum, mill finish. Arbor press adapter cup accepts 1" (2.5cm) diameter rams.

**#100-006-770AS Barrel Press Kit, 4K94E99..... \$ 94.99**

**TRUNNION RIVETING TOOL** - Heavy bench tool securely holds and properly aligns stamped AK receivers for installing front and rear trunnion rivets and center supports. Allows proper peening of all well neck trunnion rivets including the rear rivet on sidefolder and underfolder trunnions. Protects receiver from accidental crushing when installing center support rivets. Will not install triggerguard rivets; use the Triggerguard Rivet Jig sold below.

**SPECS:** 4140 steel, black oxide finish. Includes bench tool, rivet head supports, four dimpling heads, and instructions.

**#100-006-752AS Trunnion Riveting Tool, 4K259L99... \$ 259.99**

**TRUNNION RIVET HOLE DRILLING FIXTURE** - Heavy drill press fixture securely holds both front and rear trunnions so you get perfectly aligned receiver rivet holes every time. Interchangeable barrel mandrels and pre-drilled setscrews allow the user to properly align the trunnions square to the receiver, which is critical for secure trunnion riveting. Fixture includes Red Mandrel for drilling trunnions on rifles chambered in 7.62x39mm. Purchase the Blue Mandrel (sold separately) for drilling trunnions on rifles chambered 5.45x39mm.

**SPECS:** Steel, blue finish. For use with all models of AKM, AK-47, AK-74 and RPK. Kit includes drilling fixture, aluminum drilling bar, 7.62 (Red) mandrel, and instructions. 5.45 (Blue) mandrel sold separately.

**#100-006-771AS Trunnion Hole Drilling Fixture, 4K64K99..... \$ 64.99**

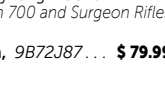
**#100-006-750AS Blue 5.45mm Drilling Fixture Mandrel, 4K14H99..... 14.99**

**TRIGGERGUARD RIVET JIGS** - Steel jigs precisely aligns triggerguard for installation of new rivets or removal of old rivets and AK-type rifle. Triggerguard Rivet Jig aligns the triggerguard with the

## SURGEON RIFLES ACTION WRENCH

Prevents Damage When Installing Barrel On Surgeon Or Remington 700 Action




Easy-to-use alternative to old-fashioned T-handle action wrenches is specifically designed to prevent damage to receiver when installing and removing barrels. Lets you torque a Remington 700 or Surgeon Rifles action as close as possible to the barrel threads to eliminate unwanted twisting or bowing of the action that can result in distorted bolt raceways and other expensive damage. Inserts in the ejection port; the two "ears" fit in the raceways at the front ring. Insert a 1/2" drive ratchet handle or torque wrench and tighten/loosen the action to the barrel. Works on any length action. 

**SPECS:** Steel, black oxide finish. Fits Remington 700 and Surgeon Rifles receivers.

**#100-003-675AS Surgeon Action Wrench, 9B72J87... \$ 79.99**

## SHARPSHOOTER SUPPLY SAVAGE BARREL NUT WRENCH

Fits 110 Long Action & New 10 Short Action

Provides the correct wrench for all styles of Savage barrel nuts. Double-end wrench helps prevent expensive damage; fits older Savage barrel nuts with round bottom notches and the new, short action guns with square bottom notches. 

**SPECS:** Stainless steel. 12" (30.5cm) long. .186" (4.7mm) thick.

**#436-100-010AS Savage Barrel Nut Wrench, 6C47L90... \$ 47.90**

receiver to give the rivets a professional-looking installation. Hardened-steel block lets you set all four front rivets in one press, or one at a time. Support block can be removed for setting rivets in receivers that use a rear reinforcement plate. Triggerguard Rivet Removal Jig clamps to an old triggerguard and lets you drill through the center of each rivet for easy removal without slippage or damage to the receiver. Includes hardened drill bit.

**SPECS:** Hardened steel, black oxide finish. Instructions included.

**#100-006-753AS Triggerguard Rivet Jig, 4K64J99... \$ 64.99**

**#100-006-754AS Triggerguard Rivet Removal Jig, 4K24J99..... 24.99**

**GAS PISTON RIVET DRILLING FIXTURE** - For proper alignment AK gas pistons should be drilled and riveted, not held on with thread locking compound. Fixture securely holds the slippery, chrome plated gas piston to drill perfectly aligned rivet holes without a requiring a drill press. Through hole in jig provides proper alignment and safer drilling.

**SPECS:** Steel, black oxide finish. Includes fixture, drill bit, and instructions. For use with all models of AKM, AK-47, AK-74, and RPK.

**#100-006-749AS Gas Piston Rivet Drilling Fixture, 4K22H49..... \$ 22.49**

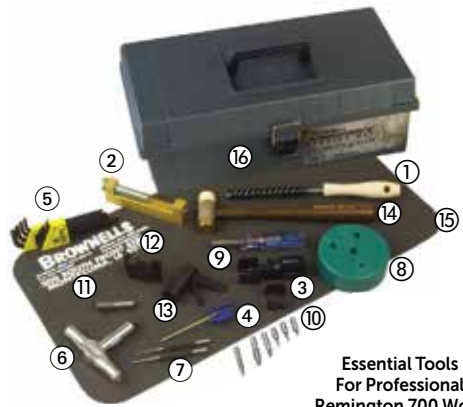
**RAIL ALIGNMENT FIXTURE** - Solid-steel fixture aligns the lower bolt guide rails in 1mm receivers for mistake proof spot welding and perfectly aligned rails every time. Place the rails in the fixture, clamp front trunnion in the receiver, align the lower rails parallel to the top rail and touching the front trunnion. Clamp the lower rails in place then spot weld.

**SPECS:** Steel, black oxide finish. Fits all models of AKM, AK-74 and RPK.

**#100-006-751AS Rail Alignment Fixture, 4K22M49... \$ 22.49**



## BROWNELLS REMINGTON 700 ARMORER'S KIT

Indispensable collection of tools includes everything you need to service Remington 700s. The kit includes hex wrenches for your scope mounts and rings, a torque wrench for the guard screws and there's even a bench mat to protect the gun while you work on it. Plus, because of the amount of work the bolt assembly does, it requires frequent cleaning, disassembly, and service. Several of the tools give you a mechanical advantage to make that process simple. 

**#080-000-088AS Remington 700 Armorer's Kit, 8K374M68..... \$ 425.99**

**1 UNIVERSAL BOLT BRUSH** - Long, nylon-bristled brush rids crud from the interior of the bolt.

**SPECS:** Plastic handle, SS shank, nylon bristles. 1 1/2" (26cm) overall.

**#084-400-001AS Universal Bolt Brush, 8K7M10..... \$ 9.99**

**2 KLEINERDORST REMINGTON FIRING PIN TOOL** - Compresses the firing pin spring for easy disassembly.

**SPECS:** 5 1/2" (14cm) long. 1/2" (19mm) wide. 1 1/4" (4.4cm) high. Weighs 10 oz. (28.3g). Aluminum base, steel screw.

**#488-002-000AS Rem. Firing Pin Tool, 8H35M99..... \$ 35.99**

**3 BOLT EJECTOR TOOL SET** - Assists in driving out the ejector pin; one for small bolt faces, another for large.

**SPECS:** Steel, blued. Plastic handle. Includes instructions.

**#080-792-100AS Bolt Ejector Tool Set, 8K29Q52..... \$ 35.99**

**4 BRASS ALIGNMENT & PUSH PUNCH** - .120" diameter punch helps align pins, bolt stop, and bolt stop spring.

**SPECS:** Plastic handle, brass shank. 360 alloy shaft. 4 1/4" (12cm) long. 3/4" (8.3cm) long shank.

**#080-000-025AS .120" Brass Alignment & Push Punch, 8K7E55..... \$ 8.99**

**5 BALL-HEX WRENCH SET** - 12-wrench set ranges from .050 to 3/16". Excellent for installation and removal of scope rings and bases.

**SPECS:** 2 1/8" (7.3cm) - 6 1/2" (16.5cm) long. 12 sizes: .050", 1/16", 3/16", 1/8", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1".

**#123-109-000AS Inch Ball-Hex Wrench Set, 3B10K72... \$ 11.99**

**6 T-HANDLE TORQUE WRENCH** - 45 inch pound, torque wrench tightens triggerguard screws to Remington factory specs.

**SPECS:** Steel, chrome plated. 3 1/2" (8.8cm) high, 4 1/8" (10cm) wide.

**#792-212-045AS 45in/lb Torque Handle, 2G101K83... \$ 116.99**

**7 PIN PUNCH SET** - Two, top quality punches. Use the 1/16" punch for removing the bolt stop and sear pin; use the 1/8" punch for removing the ejector pin and firing pin cross pin.

**SPECS:** 4" (10.2cm) long. Sizes: 1/16" (1.6mm), 1/8" (3.2mm).

**#827-525-800AS Starrett Pin Punch, 8K5K99..... \$ 5.99**

**#827-525-780AS 1/16" Punch, 7B6199..... 6.99**

**8 RIFLE BENCH BLOCK** - Large, 4" diameter block; won't embed or mar when pounding out pins.

**SPECS:** Polyethylene green. 4" (10cm) diameter, 1 1/2" (2.8cm) high.

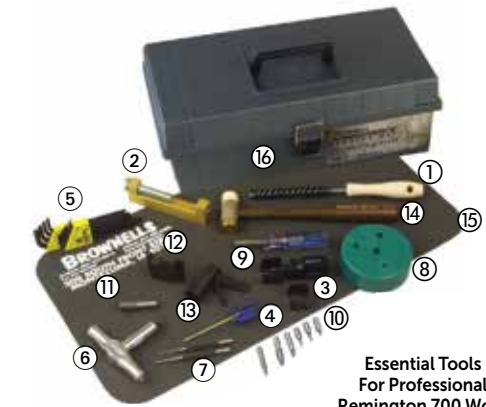
**#080-000-492AS Rifle Bench Block - Green, 8D19J99..... \$ 19.99**

**9 MAGNA-TIP LAW ENFORCEMENT SCREWDRIVER HANDLE** - Holds Magna-Tip bits (see below). Puts your hand close to the work for maximum control.

**SPECS:** 5 1/2" (14cm) overall. 1 1/4" (4.4cm) long shank. 1" (2.5cm) diameter x 3 1/4" (9.5cm) long handle.

**#080-088-004AS Magnetic LE Handle, 8K11P94..... \$ 14.97**

**10 MAGNA-TIP BITS** - Use in Magna-Tip LE Handle or with the Square-To-Hex Converter and Torque Wrench (both included in kit) on triggerguard screws and scope mounts. 185-1 and 185-



Essential Tools For Professional Remington 700 Work

3 fit Allen head triggerguard screws. 340-5 fits slotted front and rear screws on ADL and BDL. 240-5 fits slotted center screws on ADL and sight screws. T10 and T15 Torx\* bits for screws in newer scope mounts.

**SPECS:** Hardened steel. 1" (2.5cm) or 1 1/4" (3.2cm) long.

**#080-185-100AS 1/2" Allen Bit, 8K2166..... \$ 2.99**

**#080-240-540AS #240-5 Slotted Bit, 8K2B66..... 2.99**

**#080-435-015AS T15 Torx Bit, 8K2166..... 2.99**

**11 SQUARE-TO-HEX CONVERTER** - Converts square shank to hex to allow use of Magna-Tip bits to torque wrench (included in kit).

**SPECS:** Forged steel, heat treated, 2" (5cm) long.

**#084-095-230AS ZM23 Converter, 8K18B43..... \$ 21.99**

**12 REMINGTON EXTRACTOR RIVET ANVIL** - Simplifies extractor rivet peening. Fits inside bolt face recess while youpeen the extractor rivet.

**SPECS:** Blued, tool steel, hardened to Rc 60-63. 2 1/4" (5.7cm) high x 1 1/4" (4.4cm) wide x 1/2" (12.7mm) thick.

**#080-740-000AS Extractor Rivet Anvil, 8K77E49..... \$ 89.99**

**13 KLEINERDORST REMINGTON BOLT DISASSEMBLY TOOL** - Removes the striker assembly in seconds for fast easy disassembly.

**SPECS:** 2 1/2" (6.3cm) long body. .690" (17.5mm) I.D. 1" O.D. 3 1/2 oz. (99 g). Aluminum body, steel hook and pivot arms. Fits Rem. 7 ISS, 700, 700 ISS, 40X, 600, 660, 721/722

**#488-001-000AS Remington Bolt Disassembly Tool, 8H37M99..... \$ 37.99**

**14 NYLON/BRASS HAMMER COMBO** - Brass on one side, nylon on the other. Use brass to knock out pins and nylon for a more gentle persuasion.

**SPECS:** 1" (2.5cm) diameter faces. 11 1/2" (29.2cm) hickory handle. Weighs approximately 6 oz. (170.1g).

**#818-600-100AS 1" Nylon/Brass Hammer Combo, 8A19B99..... \$ 19.99**

**15 BENCH/FIELD GUN MAT** - Soft, flexible mat unrolls when needed. Protects wood and metal finishes and is highly absorbent.

**SPECS:** 12" (30.5cm) x 24" (61cm).

**#084-280-001AS #1 Roll-Up Gun Mat, 4H10N92..... \$ 14.99**

**16 TOOL BOX** - Durable, portable toolbox makes it easy to keep organized at home or in the field.

**SPECS:** High-impact plastic. 15" (38.1cm) long, 7" (18cm) wide, 5" (13cm) high.

**#696-100-303AS Tool Box, 6F13K09..... \$ 17.59**

order on the web

Orders/Tech: 800-741-0015

**brownells.com**

**BROWNELLS** PAGE 467

**BROWNELLS ACTION WRENCH SYSTEM**

Eliminates Torque Damage When Installing/Removing Barrels



models. Saves the gunsmith money, you can purchase the Handle/Base Unit complete with one of the interchangeable Heads, then add different Heads, only as your needs grow - all for a far, far lower investment than ten, individual, specialty wrenches. **The complete listing of all rifle heads and those for handguns is found elsewhere in catalog.**

**SPECS:** Blued steel. **Base/Handle Unit** - 12<sup>1</sup>/<sub>2</sub>" (31.1cm) long, 1" (24.5mm) diameter. **Interchangeable Head** - 4<sup>1</sup>/<sub>2</sub>" (11.4cm) wide, 1<sup>1</sup>/<sub>8</sub>" (3.1cm) thick. **Complete Wrench** - Includes Base/Handle and the required Head(s) for the model listed; 1/2"-20 2" and 3" long bolts; 3/8" Allen wrench; instructions.

**BROWNING A-BOLT** - Two-piece head clamps around the forward receiver ring for complete contact on the top and sides of this uniquely-shaped receiver.

**#080-800-002AS Comp A-Bolt Wrench**, 8K117D50... \$ 139.99  
**#080-801-002AS A-Bolt Heads**, only, 8K59F81... 69.99

**1917 ENFIELD/P-14** - Machined cut in head clears projection on receiver ring. Also fits many commercial variations, such as the Remington Model 30.

**#080-800-017AS Comp. 1917 Wrench**, 8K96I16... \$ 114.99  
**#080-801-017AS 1917 Head**, only, 8K32J69... 39.99

**LARGE RING MAUSER** - Maximum support for the receiver ring. Fits virtually all military and commercial Large Ring Mausers (like Mk X).

**#080-800-098AS Comp LR Mauser Wrench**, 8K91G16... \$ 109.99  
**#080-801-098AS LRM Head**, only, 8K30N26... 34.99

**SMALL RING MAUSER** - Maximum support for lug and receiver ring of these relatively soft receivers that twist and crush so easily. Fits most military and commercial models.

**#080-800-095AS Complete SR Mauser Wrench**, 8K91J16... \$ 109.99  
**#080-801-095AS SRM Head**, only, 8K32K37... 39.99

**MINI-MAUSER** - One-piece head provides complete support for lug and receiver. Prevents twisting or crushing receiver.

**#080-800-005AS Complete Mini-Mauser Wrench**, 8K96F16... \$ 114.99  
**#080-801-005AS Mini-Mauser Head**, only, 8K32M69... 39.99

**UNIVERSAL** - Flat on one side of head to fit most lever actions and some single shot receivers. Machined 45° V on back side of head can be used with shims on odd-shaped receivers when no other head will fit. Will fit Ruger M77 and French MAS.

**#080-800-001AS Comp Uni. Wrench**, 8K91F16... \$ 109.99  
**#080-801-001AS Universal Head**, only, 8K32L69... 39.99

**SPIKES TACTICAL AR-15/M16 WRENCHES**

Wrenches Help Assemble AR-15s

Chromoly-steel wrenches accept standard torque wrench drives and help quickly assemble AR-15 rifles.



The only commercially available action wrench system that surrounds and supports the receiver ring and recoil lug to distribute potentially damaging torque forces equally. The solid steel base has a unique, machined relief to clear the recoil lug on most Mauser-type bolt action rifles and, the individual, bolt-on Heads are machined to provide an exact fit around and against the receiver ring or barrel nut for each of the rifle models listed. Together, they support the receiver in a ring of steel and greatly increase the amount of surface gripping area to totally eliminate twisted bolt "ways" or damaged, ruined receivers. This is the most advanced, complete, professional-quality, Action Wrench System. With it, you can prevent expensive receiver damage on MOST popular rifle actions, including military

**REMINGTON 788** - Two-piece head completely encircles cylindrical style action for 100% surface contact. Bottom Head indexes on the forward guard screw for extra holding power. Includes both heads and longer bolts.

**#080-800-788AS Complete Remington 788 Wrench**, 8K117Q50... \$ 139.99  
**#080-801-788AS Remington 788 Heads**, only, 8K59L81... 69.99

**REMINGTON 700** - Two-piece head completely encircles cylindrical style action for 100% surface contact. Upper Head indexes on the forward guard screw and positions recoil lug properly during barrel installation. Includes both heads and longer bolts. Fits all Remington actions with receiver diameter of 1.355". Double-angle design accepts factory lug or Tubb and Shilen tapered design.

**#080-800-700AS Complete Remington 700 Wrench**, 8K128D58... \$ 139.99  
**#080-801-700AS Remington 700 Heads**, only, 8K66J60... 74.99

**SAVAGE 110** - Two-piece head fits completely around, and locks onto, the barrel nut with lugs on the inside radius of both upper and lower Heads. Round fits older Savage 110, 10 and Striker with round groove nut. Square fits newer 110, 10 and Striker with square groove nut.

**#080-800-110AS Complete Round Savage 110 Wrench**, 8K91J16... \$ 109.99  
**#080-801-110AS Round Savage 110 Heads**, only, 8K32I69... 39.99

**#080-800-109AS Complete Square Savage 110 Wrench**, 8K117Q50... 139.99  
**#080-801-109AS Square Savage 110 Heads**, only, 8K59G81... 69.99

**WINCHESTER MODEL 70/WEATHERBY MARK V** - Radius on head contacts and supports a full 180° of the forward receiver ring. Recoil lug fits in recess on base. Fits both pre/post '64 actions.

**#080-800-070AS Complete Win. 70 Wrench**, 8K91K16... \$ 109.99  
**#080-801-070AS Winchester 70 Head**, only, 8K32N37... 39.99

Wrenches feature black phosphate finish for resistance to wear and corrosion, and Spikes Tactical logo. **Castle Nut Wrench** accepts 3/8" drive and has cutouts to fit onto standard AR-15 carbine buffer tube castle nut. **USGI Barrel Nut Wrench** accepts 1/2" drive. Features seven pins made of tool steel and TIG welded into place. Fits standard AR-15 barrel nuts. All wrenches sold separately.

**#100-014-394AS Castle Nut Wrench**, 3B44D99... \$ 44.99  
**#100-014-395AS USGI Barrel Nut Wrench**, 3B44D99... 44.99

**JERRY FISHER PRECISION BARREL VISE**

Proven Design Used By Master Gun Maker Jerry Fisher For 40+ Years!



This steel vise delivers a rock-solid clamping force to keep barrels from slipping during installation and removal. Four bolts, washers, and hex nuts join the upper and lower bodies. As the nuts are loosened, the top jaw lifts and holds open via a spring system, which provides ample clearance and a third hand when loading and unloading, plus helps prevent scratching highly finished or engraved surfaces. Comes with one set of aluminum 1.250" split barrel bushings. Additional bushings sold separately, including an unsplit, 2" long blank with a 3/8" bore for custom sizing. Two recessed holes are cut into the vise base for bench mounting.

**SPECS:** Machined steel, natural finish (black oxide on hardware). 2" (5.1cm) long x 7" wide (17.8cm) x 3 1/8" (7.9cm) high.

**#310-000-003AS Fisher Barrel Vise**, 1C574I99... \$ 574.99  
**#310-000-004AS 1.150" Barrel Bushing**, 1C54C99... 54.99  
**#310-000-005AS 1.175" Barrel Bushing**, 1C00BIN... 54.99  
**#310-000-006AS 1.200" Barrel Bushing**, 1C54C99... 54.99  
**#310-000-007AS 1.225" Barrel Bushing**, 1C00EJP... 54.99  
**#310-000-008AS 1.250" Barrel Bushing**, 1C54H99... 54.99  
**#310-000-009AS Barrel Bushing Blank**, 1C00JGH... 54.99

**D.S. ARMS FN-FAL ACCESSORY TOOLS**

Original FAL Tools For Service &amp; Repair

Authentic tools necessary to keep the FAL in top operating condition. **Front Sight Tool** easily adjusts the sight for correct elevation.

**Extractor Tool** makes the difficult task of removing the extractor for cleaning or repair easy. **Gas Wrench** has the strength for removing the most stubborn regulator nut. **Buttstock Wrench** is necessary for control of recoil spring when removing the buttstock.

**SPECS:** Steel, parkerized. **Front sight tool fits all sights except Israeli.**  
**#274-100-640AS FAL Front Sight Tool**, 4G16G39... \$ 25.00  
**#274-100-641AS FAL Gas Wrench**, 4G16G39... 25.00  
**#274-100-646AS FAL Extractor Tool**, 4G27N32... 35.00  
**#274-100-632AS FAL Buttstock Wrench**, 4G21M43... 25.00

**VULCAN ARMS FN-FAL HEADSPACE ROD**

Easily Select The Correct Locking Shoulder

Stepped rod with diameters from .256" to .272" lets you choose the right locking shoulder for proper headspace. Critical for safe function. Essential when replacing a cracked, loose or worn locking shoulder. Use with GO/NO GO headspace gauges and a micrometer or dial caliper to determine proper locking shoulder.

**SPECS:** 4140 Steel. .256" (6.5mm) to .272" (6.9mm) diameter. 10.812" (35cm) long.  
**#997-100-100AS FN/FAL Headspace Rod**, 7Z93P99... \$ 93.99

**FA ENTERPRISES FN-FAL MUZZLE BRAKE DIE**

Cleans Or Cuts Threads On Metric Barrels

Cuts the correct, 3/16"-24, left-hand threads used on most metric pattern barrels. Use to clean up existing threads or cut new. **Thread Alignment Tool** aligns threading die to barrel. Helps prevent cross threading.

**SPECS:** Steel. 1 1/2" diameter. 3/16"-24 left hand.  
**#246-100-000AS FAL Muzzle Die**, 6B57K19... \$ 65.99  
**#246-000-001AS FAL Thread Alignment Tool**, 6B20P76... 24.99

**BADGER ORDNANCE M14/M1A BOLT ROLLER GREASER**

Lubricates For Optimal Performance



CNC machined tool forces grease in and around the hard to reach areas of the bolt roller to insure optimal performance and dependability. Easy to use, simply fill the cupped end with rifle grease and push onto the roller for complete lubrication. Durable polymer construction resists most solvents.

**SPECS:** Polymer, black matte. 1" (2.5cm) long x 5/8" (1.6cm) dia.  
**#093-000-009AS Bolt Roller Greaser**, 3K6F22... \$ 6.99

**SAVANNA TOOL M1/M1A/M14 TRIGGER GROUP ASSEMBLY FIXTURE**

Simplifies Assembly &amp; Disassembly



Proven armorer's tool makes both assembly and disassembly a simple, one-hand task by capturing the hammer, plunger and spring so the pin can be removed, or inserted easily. Steel fixture is pre-drilled; can be attached to the bench for production work. Works for M1 Garand, M14 and M1A.

**SPECS:** Steel, blued. 4" (10cm) wide, 2" (5cm) high, 3/8" (15mm) thick. Includes instructions.  
**#784-100-014AS Trigger Group Assembly Fixture**, 4H60D50... \$ 60.50

**M14/M1A CASTLE NUT PLIERS**

The Correct Military Tool For This Easily Damaged, Specialty Nut



Proven military tool prevents stripped notches on the flash suppressor castle nut. Hardened jaw points provide an exact notch fit for easier installation and removal of the issue flash suppressor, without damage.

**SPECS:** Steel, 6" (15cm) long. Parkerized finish.  
**#553-014-001AS Castle Nut Pliers**, 3E8B66... \$ 10.00

**FULTON ARMORY M1 GARAND GAS CYLINDER WRENCH**

No-Mar Field Disassembly For Cleaning &amp; Maintenance





Supports the gas cylinder and keeps it from rotating when removing the gas plug. Lets you easily separate these parts without damage.

**SPECS:** Aluminum, anodized, blue. 5 1/2" (14.6cm) long, 1 1/2" (3.8cm) wide, 1/4" (6.3mm) thick.  
**#100-000-792AS M1 Garand Gas Cylinder Wrench**, 3K13P48... \$ 15.99





## M1/M14/M1A TOOLS & ACCESSORIES


**M14/M1A GAS PISTON DRILLS** - Cor-rect drills fit both the gas piston stem and body to remove built-up carbon and fouling. Large, knurled handle.   
**SPECS:** Steel drills, aluminum handle. 8 1/2" (21.6cm) long overall.  
**#054-114-000AS M14/M1A Gas Piston Drill, 4E42G15** ..... \$ 48.67

**M14/M1A GAS CYLINDER WRENCH** - Supports the gas cylinder so it won't be twisted by the wrench when unscrewing the gas cylinder plug. Makes it possible to separate these parts in the field without a vise. Also holds the gas piston stem during cleaning.   
**SPECS:** Aluminum. 6" (15.2cm) long x 1 1/2" (3.8cm) wide x 3/16" (7.9mm) thick.  
**#054-214-000AS M14/M1A Gas Cyl. Wrench, 4E39D28** ..... \$ 44.95

**M1/M1A RECEIVER/BARREL TIMING GAUGES** - Machined aluminum gauges give a precise, repeatable indexing reference so front and rear sights can be aligned perfectly, every time. Front gauge attaches to the gas cylinder (M1) or flash suppressor (M1A); rear gauge fits in the stripped rear sight housing.   
**SPECS:** Machined aluminum, silver, matte finish. 6" (15cm) long, 1" (2.5cm) square. Includes illustrated instructions.   
**#093-200-010AS Timing Gauges, 3K75195** ..... \$ 79.99

**M1 BOLT TIMING BLOCK** - Quickly identifies a worn or damaged cartridge feeding mechanism. Tells you if the cartridge is in front of the bolt at the correct time. Machined to Arsenal specifications from Delrin.   
**SPECS:** Delrin®, white. 2" (5cm) W x 2.6" (6.6cm) L.  
**#812-001-001AS M1 Garand Timing Block, 2A38G99** ..... \$ 38.99


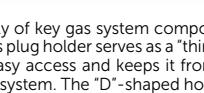
**M14/M1A STOCK LINER NUT DRIVER** - Provides non-slip engagement for removing stubborn stock liner nuts on wooden M14 and M1A rifle stocks. Fits into any of the Brownell Magna-Tip® handles.   
**SPECS:** S-7 steel, 1" (2.5cm) long, 1/4" hex drive.  
**#093-223-040AQ Stock Liner Nut Driver, 3K7K50** ..... \$ 9.99

**M14/M1A BOLT ROLLER GREASER** - Pushes grease into the roller and around the lug for maximum protection from failure. Put a small amount of your favorite, high-bodied grease on the tool's recess and push it against the bolt roller.   
**SPECS:** Delrin body, steel handle. 2" (5cm) long.  
**#093-223-025AQ Bolt Roller Greaser, 3K8G40** ..... \$ 9.99


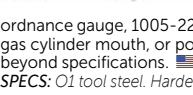
## GUN RUNNERS M1/M14/M1A HANDGUARD CLIP PLIERS

 Properly Removes Clip; Won't Damage Fragile Handguards  
 Laser-cut steel pliers easily remove the handguard clip on M1/M14/M1A rifles without damaging your handguard. Super-handly notches on the inner part of the handles work great to resize boogered-up clips. The pivot point is centered to give good feel and the necessary control for the job.   
**SPECS:** Laser-cut steel, black, oxide finish. Approx. 7" (18cm) long.  
**#634-000-025AS Handguard Clip Pliers, 4C25K79** ..... \$ 28.99


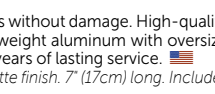
## BATTLE ARMS DEVELOPMENT M1/M14/M1A GAS CYLINDER WRENCH

 Provides A Helpful "Third Hand" During Gas System Maintenance  
 Compact, armorer-designed wrench enables fast, easy disassembly of key gas system components for proper cleaning. A handy gas plug holder serves as a "third hand" that retains the gas plug for easy access and keeps it from getting lost while working on the gas system. The "D"-shaped hole in the center of the wrench supports the gas piston while using a gas piston carbon removal drill bit. **BAD-T3** includes gas cylinder lock wrenches for the Garand and standard M14/M1A, separate Garand and M14/M1A gas plug holders, and the gas piston holder. Designed exclusively for M14/M1A variants, the **BAD-T4** has separate gas cylinder lock wrenches for the standard M14/M1A and the Smith Enterprise M14/MK-14, plus a gas piston holder and two gas plug holders that allow operation of the gas cylinder lock wrenches with the gas piston in place.   
**SPECS:** Machined 7075 T6 aluminum, hardcoat anodized. 5 1/4" (14.6cm) long, 1 1/2" (3.8cm) wide, 3/8" (9.5mm) thick.  
**#100-004-912AS BAD-T3 Wrench, 6D31J92** ..... \$ 34.99  
**#100-004-913AS BAD-T4 Wrench, 6D31B92** ..... \$ 34.99


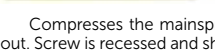
## BADGER ORDNANCE M1 GARAND GAS CYLINDER GAUGE

 Check For Worn, Out-Of-Spec Gas Cylinder  
 Helps determine the cause of unreliable cycling or if the gas piston must be replaced with an oversize head. A precise reproduction of the original ordnance gauge, 1005-222-05, that lets you easily determine if the gas cylinder mouth, or power stroke area, is out of round, or worn beyond specifications.   
**SPECS:** O1 tool steel. Hardened to Rc 60.  
**#093-000-010AS Gas Cylinder Gauge, 3K116N06** ..... \$ 125.27


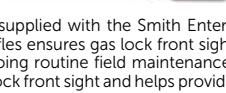
## BADGER ORDNANCE M1/M14/M1A HANDGUARD CLIP PLIERS

 Fast, Easy Clip Removal; No Broken Handguards  
 A proven military armorers tool that safely removes the attaching clip from M1 Garand/M1A top handguards without damage. High-quality pliers are machined from solid, lightweight aluminum with oversize handles for controlled leverage and years of lasting service.   
**SPECS:** Machined aluminum, silver, matte finish. 7" (17cm) long. Includes illustrated instructions.  
**#093-200-050AS M1/M14/M1A Handguard Pliers, 3K24J99** ..... \$ 24.99

## KLEINENDORST REMINGTON FIRING PIN TOOL

 Eases Disassembly Of Rem 40X, XP-100 & 700 Bolts  
 Compresses the mainspring until the cross pin can be driven out. Screw is recessed and shouldered to protect firing pin tip.   
**SPECS:** 5 1/2" (14cm) long, 3/4" (19.0mm) wide, 1 1/4" (4.4cm) high. Weighs 10 oz. (284 g). Aluminum base, steel screw.  
**#488-002-000AS Rem. Firing Pin Tool, 8H35M99** ..... \$ 35.99

## SMITH ENTERPRISES M1/M1A/M14 GAS LOCK FRONT SIGHT WRENCH

 Provides Safe & Secure Installation & Removal Of Gas Lock Front Sights  
 Current military issue wrench supplied with the Smith Enterprises "Crazy Horse" M14 Sniper Rifles ensures gas lock front sight body cannot be damaged while doing routine field maintenance. Fully cradles and supports the gas lock front sight and helps provide precise alignment during reinstallation. Hole with steel cross pin allows wrench to double as a convenient and foolproof holding fixture for removing carbon build from the gas piston body.   
**SPECS:** 7075 T6 aluminum, clear hard anodized gray, matte finish. 6" (15.2cm) long, 3/8" (9.5mm) thick. 1oz. (28.3g) wt.  
**#851-000-066AS GLFS Wrench, 1E45D40** ..... \$ 51.95

## SADLAK INDUSTRIES M14/M1A GAS CYLINDER WRENCH

 Removes Gas Plug & Holds Piston For Cleaning  
 Combination wrench holds the gas cylinder for easy gas plug removal without damage, plus the D-shaped hole prevents the piston from moving during cleaning. Small enough to store in a pocket when at the range or in the field. Machined from 1/2" thick aluminum, heat treated for extra strength, with a long-wearing baked-on mil-spec coating. Rounded edges ensure a comfortable grasp.   
**SPECS:** 6061 T6 aluminum, O.D. green finish. 6" (14.6cm) long, 1 1/2" (3.8cm) wide, 1/2" (6.3mm) thick.  
**#100-005-519AS Gas Cylinder Wrench, 6A21C53** ..... \$ 22.99


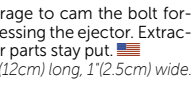
## BROWNELLS M1/M1A/M14 HANDGUARD CLIP PLIERS

 Remove Clip Quickly & Easily Without Damaging Gun  
 Indispensable tool removes the attaching clip for M1/M1A/M14 top handguards quickly and safely without damaging the wood, the clip, or your fingers. Ergonomic handles fill the hand and provide maximum leverage. Precision machined from 6061 billet aluminum and hardcoat anodized for extra strength and years of trouble-free service. Once you use one of these, you'll wonder how you survived without it.   
**SPECS:** Machined aluminum, black hardcoat anodized finish. Approx. 7" (18cm) long.  
**#080-000-361AS Handguard Clip Pliers, 8K27P51** ..... \$ 31.99


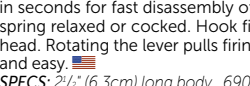
## BROWNELLS M14/M1A CASTLE NUT PLIERS

 Hardened, Steel Head Eliminates Flex, Prevents Stripping  
 Thick, steel handles provide the necessary strength and rigidity to tighten and loosen the flash suppressor nut on M1A/M14 rifles. Hardened jaw points provide precise engagement to eliminate notch stripping. Rubber sleeves give a positive gripping surface.   
**SPECS:** Hardened steel, black oxide finish. 6" (15cm) long.  
**#080-000-185AS M14/M1A Castle Nut Pliers, 8K13B04** ..... \$ 14.99

## BROWNELLS M1/M14 BOLT DISASSEMBLY TOOL

 Cradles & Secures Entire Bolt  
 Improved variation of the original G.I. tool turns a three-handed job into a quick, easy-to-perform operation. Two-position handle provides extra leverage to cam the bolt forward and retain the entire bolt while depressing the ejector. Extractor lifts out and drops in easily while other parts stay put.   
**SPECS:** Aluminum body, steel handled. 4 1/4" (12cm) long, 1 1/2" (5cm) wide. Fits both M1 Garand and M14 bolts.  
**#080-818-000AS M1/M14 Bolt Disassembly Tool, 8K51A43** ..... \$ 59.99

## KLEINENDORST REMINGTON BOLT DISASSEMBLY TOOL

 Universal Design Makes Disassembly Fast, Safe & Easy  
 Removes striker assembly in seconds for fast disassembly of all Remington bolts. Works with spring relaxed or cocked. Hook fits into the notch of the firing pin head. Rotating the lever pulls firing pin head back and locks it. Fast and easy.   
**SPECS:** 2 1/2" (6.3cm) long body, .690" (17.5mm) I.D. 1" O.D. 3 1/2 oz. (99 g). Aluminum body, steel hook and pivot arms. Fits Rem. 7 ISS, 700, 700 ISS, 40X, 600, 660, 721/722.  
**#488-001-000AS Remington Bolt Disassembly Tool, 8H37M99** ..... \$ 37.99

## BROWNELLS SMLE FIRING PIN TOOL

 Modernizes Military Design For Fast Bolt Disassembly  
 Absolutely essential for complete bolt takedown; firing pin or spring replacement on the Lee Enfield. Hollow shaft reaches over the firing pin and fits into the firing pin collar notches. Large, plastic handle for good control, won't dig into the palm. Much needed with the recent increase in SMLE imports.   
**#080-741-000AS SMLE Firing Pin Tool, 9A32E34** ..... \$ 39.99

## GUN RUNNERS REMINGTON/RUGER® FIRING PIN DISASSEMBLY TOOL

 Enables Safe, Easy Firing Pin Removal  
 Machined aluminum and steel tool keeps the firing pin spring in place while you remove the cocking piece from the firing pin assembly of Remington and Ruger bolt action rifles. Just insert the firing pin assembly into the housing, tighten the threaded steel shaft to compress the spring, press out the cross-pin, and gradually unscrew the shaft to relieve spring tension. Recessed ends and a wide shoulder on the shaft protect the firing pin tip as the tool presses on the bolt face.   
**SPECS:** Aluminum body, natural finish, steel threaded compression shaft, matte blued finish. 10 1/4" (26cm) OAL opened, 8 1/4" (21cm) OAL closed, 1" (2.54cm) wide, 1" high. Fits Remington 600, 700, 710, 721, 722, Model Seven, XP-100, M24, and 40X; Ruger M77® and M77 Mark II, 77/22®, 77/17®, 77/44® bolt action rifles.  
**#634-000-032AS Firing Pin Disassembly Tool, 4C25A33** ..... \$ 29.99

## BROWNELLS BOLT ACTION FIRING PIN REMOVAL TOOL



**Quickly Remove Firing Pins From Remington & Ruger® Rifles**

A third hand for removing the firing pin from Remington and Ruger bolt action rifles without lost parts or sore fingers that sometimes accompany this tricky job. Install the correct bushing for your rifle in the end of the tool body. Screw the firing pin assembly into the bushing, and tighten the threaded, steel shank to compress and capture the mainspring. The hollow shank protects the firing pin tip as it slides over the pin to compress the spring. The crosspin can then be driven out with a punch, and the spring tension relieved by gradually loosening the shank. Includes bushings for Remington 700 family and Ruger M77® Mark II rifles. Built-in storage slot holds the unused bushing on the tool body, so it's always there when you need it.

**SPECS:** Aluminum base, hardcoat anodized, black. Hardened tool steel screw shank and bushings, black oxide finish. Body - 5/16" (13.34cm) long, 1" (2.54cm) wide, 1/16" (3.02cm) high. Shank - 3/16" (8.89cm) long. Fits Remington 700, 710, 721, 722, Model Seven, XP-100, M24, and 40X; Ruger M77® Mark II, 77/22®, 77/17®, 77/44® bolt action rifles.

**#080-000-409AS Firing Pin Removal Tool, 8K51J08 ... \$ 69.99**

**NEW!** Items

## Sinclair REMINGTON 700 BOLT DISASSEMBLY TOOLS



**Top-Drawer Specialty Tools For Safe, Easy, FAST Bolt Assembly & Disassembly**

Precision made tools for safe, easy bolt disassembly and assembly without scraped knuckles and lost parts. Fits all Rem. 700, Stolle Panda, and other Remington style bolts. **Firing Pin Removal Tool** removes the entire firing pin assembly from the bolt body. The thick, polymer cylinder slides over the bolt shroud to prevent scrapes or gouges. Polymer knob easily turns the steel lead screw and slowly pulls the cocking piece clear of the small detent for easy removal. **Ejector Compressor Tool** compresses ejector spring, so you can push out the pin and safely remove the spring. Includes fittings for both small (.223) and large bolt faces (.308 and Magnum). **Main-spring Changing Tool** is used for both mainspring and firing pin removal. Hand-filling, polymer knob effortlessly turns steel lead screw and compresses mainspring for easy cross pin removal. **Bench Block** designed for use with the tools above secures both bolt and firing pin in the proper position for driving out pins. Machined from Delrin™ so it will not scratch the bolt's finish, plus a "well" properly located to prevent the loss of pins. **Bolt Maintenance Kit** contains ALL FOUR tools in a sturdy, hard-plastic case with custom-fitted foam interior. **Storage Case** also sold separately, in case you bought the tools earlier, one at a time.

**SPECS:** Firing Pin Removal Tool - Polymer cylinder/knob, matte black. Steel hook/lead screw. Body - 3/4" (8.2cm) long x 1/4" (3.2cm) wide. Ejector Compressor Tool - Aluminum, anodized, blue. Steel screw, polymer bushings, matte black. Body - 1/2" (1.7cm) long x 2" (5.1cm) wide. Main-spring Changing Tool - Aluminum, anodized, green. Steel lead screw. Polymer knob, matte black. Body - 8/16" (21cm) long x 3/4" (1.9cm) wide. Fits Rem. 700, Stolle Panda, and other Remington style bolts.

**#749-004-116AS Firing Pin Removal Tool, 8H28F15 ... \$ 29.99**

**#749-003-541AS Ejector Compressor Tool, 8H26E99 ... 26.99**

**#749-004-114AS Main-spring Changing Tool, 8H27A99 ... 27.99**

**#749-002-695AS Sinclair Bench Block, 8H17B99 ... 17.99**

**#749-011-310AS Remington Bolt Maintenance Storage Case, 5F29F99 ... 29.99**

## MANSON PRECISION REAMERS RECEIVER ACCURIZING SYSTEM



**A Real Time & Work Saver When Blueprinting Actions**

Tools to help the home and professional gunsmith blueprint Remington and Winchester actions.   
**SPECS:** For use with Rem. 700 SA and LA, Win. 70

**Classic SA and LA .010" Over Kit - Includes:** .010" over Receiver Reamer, 1/16" + .010"-16 tap, .010" over Recoil Lug Reamer, (2) bushings. **Standard Kit - Includes:** Standard Receiver Reamer, 1/16"-16 tap, (2) bushings; doesn't include Recoil Lug Reamer.

**#513-000-003AS .010" Over Receiver Accurizing Kit, 3A550N00 ... \$ 550.00**

**#513-000-050AS Std Rec. Accurizing Kit, 3A500B00 ... 500.00**

**PILOTED RECEIVER REAMER -** Cuts receiver thread minor diameter for the Piloted Tap/Mandrel. Cuts receiver lugs to equal heights. Uses Tap/Mandrel bushings (not included). Available **Standard** or **.010" Oversize**.   
**SPECS:** High speed steel. 10 1/2" (26.6cm) long. .010" Over - 1.012" diameter. **Standard** - 1" diameter.

**#513-000-004AS .010" Over Piloted Receiver Reamer, 3A175M95 ... \$ 175.95**

**#513-000-051AS Standard Piloted Receiver Reamer, 3A175E95 ... 175.95**

**PILOTED TAP/MANDREL -** Recuts and squares receiver threads concentric with centerline of boltway. Pilot with bushings centers tap. Available **Standard** or **.010" Oversize**.   
**SPECS:** High speed steel. Tap - TiN coated 10 1/2" (26.6cm) long. Includes (2) bushings. .701"-.705" diameter. .010" Over - 1/16" + .010"-16 thread pitch. **Standard** - 1/16"-16 thread pitch.

**#513-005-700AS .010" Over Remington Rcvr/Tap Arbor, 3A295J95 ... \$ 295.95**

**#513-000-052AS Standard Remington Receiver Tap, 3A295B95 ... 295.95**

**RECEIVER RING FACING CUTTER -** Three, carbide cutters give even cutting pressure to square up the face of your receiver. Tapered handles let you turn the tool smoothly. Guided by the pilot on the tap listed above.   
**SPECS:** Aluminum. Teeth - Approximately 1/8" (9.5mm) long, 1/16" (4mm) wide. 6 1/2" (17.1cm) OAL with handle.

**#513-000-053AS Rec. Ring Facing Tool, 3A100B00 ... \$ 100.00**

**.715" BOLT-WAY REAMER -** Steel reamer gives a precise .715" bolt-way cut to correct any variance along length of any .700" diameter bolt tunnel in the action. Includes two .7145" bushings for use with other Manson tooling. Bolt must be shimmed for proper fit in oversized way.   
**SPECS:** High speed steel, 12" (30.4cm) long. Gunsmith installation required.

**#513-000-070AS .715" Rem. Bolt-Way Reamer, 3A289G99 ... \$ 289.99**

**BOLT BODY SHIM SET -** Precision-formed carbon steel shims take up the gap and center the bolt body after truing the receiver with the .715" Bolt-Way Reamer. Saves time and effort by eliminating the need to fabricate shims from scratch. To install, undercut the bolt body to accept the shims and solder or adhere them in place with the included retaining compound. Front and rear two-piece shims are manufactured to precise tolerances and pre-contoured to ensure a perfect fit on any .700" diameter bolt body. After installation, machine shims to .7135"-.7145" O.D. to provide proper clearance for snug bolt fit and ensure reliable cycling.

**#513-000-090AQ Remington Bolt False Center, 3A50A00 ... \$ 50.00**

## BROWNELLS BOLT EXTRACTOR PLIERS



**Greatly Simplifies Assembly & Disassembly Of Mauser, Springfield, Enfield & Similar Bolts**

Made specifically to greatly simplify assembly and disassembly for these bolts - especially if the spring is stiff or your hands are greasy. Work as follows:

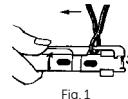


Fig. 1

### DISASSEMBLY

Fig. 1: Turn extractor clockwise. Insert pliers and tilt toward rear of bolt to clear extractor from bolt groove. Now turn pliers and slip off both pliers and extractor spring.

### ASSEMBLY

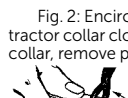


Fig. 2

Fig. 2: Encircle bolt with pliers and squeeze extractor collar closed firmly. Slip extractor onto bolt collar, remove pliers.



Fig. 3

Fig. 3: Now grasp pliers under extractor as shown and force lead edge up and clear of bolt face. Slide extractor rest of way onto bolt, then rotate into groove.   
**SPECS:** 6" (15.2cm) long. Blued steel.

**#080-017-000AS Bolt Extractor Pliers, 8K22P03 ... \$ 24.99**

## BROWNELLS BOLT EJECTOR TOOL

**Faster Removal Of Plunger-Style Ejectors**



Tough, steel clamp captures the bolt head, and the large-handled turnscrew depresses the ejector so the ejector pin can be safely removed or installed from bolts with plunger-style ejectors and forward-positioned locking lugs. **Set** includes turnscrews to fit both Standard and Small bolt faces plus separate bolt head retainers. One fits bolt bodies up to .720" diameter and the other fits AR-15/M16 bolts only. **AR-15/M16 Bolt Ejector Tool** also available separately.   
**SPECS:** Steel, blued. Plastic handle. Includes instructions.

**#080-792-100AS Bolt Ejector Tool Set, 8K29Q52 ... \$ 35.99**

**#080-792-002AS Bolt Ejector Tool, only, 8K17H72 ... 20.99**

**SPECS:** Carbon steel, polished finish. Front Shims - Nominal .400" (10.2mm) wide x .012" (.305mm) thick. Rear Shims - Nominal .700" (17.8mm) x .012" thick. Includes front and rear shims, retaining compound, and complete instructions.

**#080-000-507AQ Bolt Body Shim Set, 8K16M91 ... \$ 20.99**

**REM 700 BOLT FALSE CENTER -** False center tool provides the gunsmith with an accurate and convenient way to center and securely support a Remington 700 bolt body in the tailstock when performing accurizing work on a lathe. Threaded end of tool tightens into the bolt body when the shroud and firing pin assembly are removed. Milled flats allow you to "snug-up" the tool with a wrench. The right tool for the job when squaring-up bolt lugs, recutting the bolt face, or using the lathe for any bolt body blueprinting operation. Machined from hardened, high speed tool steel for years of reliable service.   
**SPECS:** HS steel, in-the-white 1 1/8" (4.8cm) long x 1/2" (1.3cm) diameter.

**#513-000-090AQ Remington Bolt False Center, 3A50A00 ... \$ 50.00**

## MENCK REMINGTON/RUGER® BOLT TOOL



**Eases Disassembly Of Firing Pin & Spring In Remington 600-700 Series & Ruger 77, 77 Mark II**

One end for Rem. 600-700, including XP-100, Model 7 and 40; the other for Ruger. Compresses spring until cross pin can be driven out.   
**SPECS:** Body is 5 5/16" (15.1cm) long. 3/16" (15.9mm) diameter. 7 1/2 oz. (212 g). Case hardened steel.

**#590-007-000AS Rem/Ruger Bolt Tool, 9E28I99 ... \$ 28.99**

## BROWNELLS REMINGTON RIFLE EXTRACTOR RIVET ANVIL



**Simplifies Extractor Rivet Peening**

Fits inside face bolt recess to support back side of the extractor rivet while youpeen the other end to lock a new extractor in place.   
**SPECS:** Blued, tool steel, hardened to Rc 60-63. 2 1/4" (5.7cm) x 1 1/4" (4.4cm) x 1/2" (12.7mm) thick.

**#080-740-000AS Extractor Rivet Anvil, 8K77E49 ... \$ 89.99**



## BROWNELLS EJECTOR REMOVAL TOOL



**Eliminates The "Lost Parts" Hassle When Working On Rifle Bolts**

Versatile fixture lets you remove plunger-style ejectors from standard .700" and .510" diameter bolts quickly and safely without launching parts across the room. Works for a variety of popular rifles, including AR-15, AR-style .308 rifles, Remington 700, Winchester 70, Savage, and Sako. Rugged, lightweight body machined from 6061 billet aluminum securely holds bolt while threaded, tool steel shank compresses and captures ejector spring and aligns the roll pin for easy removal with a punch. Gradually loosen the shank to relieve spring tension.   
**SPECS:** Anodized 6061 aluminum body, dark green, steel shank. 3 3/4" (9.7cm) long with shank fully screwed in, 2 1/4" (5.7cm) wide, 1 1/4" (4.5cm) high. Fits AR-15, AR-style .308 rifles, Remington 700, Winchester 70, Savage, and Sako rifles.

**#080-000-420AS Ejector Removal Tool, 8K49K74 ... \$ 63.99**

## BROWNELLS RECEIVER CONTOURING FIXTURE

**Fast, Accurate Milling & Contouring**



Lets the receiver rotate around its own axis for precise removal of charger guides, rear bridges, or pits and dings.   
**SPECS:** Steel, blued 13" (33cm) long, 3" (7.6cm) wide. Requires Receiver Facing Mandrel.

**#080-914-000AS Receiver Contouring Fixture, 8K107C15 ... \$ 128.99**



## MANSON PRECISION REAMERS BOLT FACE TRUING TOOLS

### Squares Bolt Face To Receiver

Requires only hand tools to cut the bolt face square and concentric to the boltway. Tooling block locates in the front receiver ring; turn the facing burr with a slow speed drill motor. Use after bolt lapping and squaring receiver face.

**SPECS:** High speed steel, carbide cutter head. Fits Remington 700 receivers. Use requires Tooling Block and one Facing Burr.

- #513-000-008AS Tooling Block, only, 3A100Q00..... \$ 100.00
- #513-000-009AS .223 Facing Burr, 3A65Q00..... 65.00
- #513-000-011AS .308 Facing Burr, 3A65C95..... 65.95
- #513-000-012AS Magnum Facing Burr, 3A84L99..... 84.99



## BROWNELLS RECEIVER WAY POLISHER

### Fast, Accurate Polishing To Smooth Bolt Travel

This heavy, "Big Bar" helps you polish the rails the bolt lugs ride on. Wrap abrasive paper around the end, tighten the set screw, then slide along the "ways" (rails). Gives great control and fast cutting.

**SPECS:** Blued steel. 1 1/2" (24.4cm) long, .915" (23.2mm) wide.

#080-055-000AS Receiver Way Polisher, 8K47A34..... \$ 53.95



## BROWNELLS MAUSER RECEIVER HOLDING FIXTURE

### Provides A Stable Platform For Working On Mauser Receivers

Securely holds Mauser receivers and barreled actions in a bench vise, drill press or milling machine. Ideal when drilling and tapping for scope bases, polishing, bolt lapping, milling or other modifications - without the worry of crushing or damage. The receiver is rigidly clamped to the fixture using a plate inside the receiver rails and/or the stock mounting screws. Fits military and commercial M98 actions.

**SPECS:** Steel, blued. 9" (22.8cm) long, 1" (2.5cm) wide. Includes clamp plate and bolt.

#080-919-000AS Mauser Receiver Fixture, 8K73E23... \$ 89.99



## BROWNELLS 10/22® RECEIVER DRILLING JIG

### Accurately Locates A Remington Rod Hole On 10/22 Receivers

Permits barrel cleaning from the rear without removing the barrel; eliminates accuracy-destroying muzzle wear caused by cleaning from the muzzle. Locates the correct spot at the rear of 10/22 receivers for

drilling a .257" hole to allow the cleaning rod to pass through.

**SPECS:** Steel, blued. 4" (10.2cm) long.

#080-917-000AS 10/22 Receiver Drill Jig, 8K43B27... \$ 49.99



## BROWNELLS RECEIVER FACING CUTTER & PILOTS

### Trues The Receiver Face For A Highly Accurate Rifle; Eliminates Lathe Work

Hardened steel cutter and pilots provide the perfect combo for accurizing Remington 700 and AR-15 actions without a lathe. Large, 1 1/2" diameter cutter squares the receiver face to the boltway for precise mating to the barrel. Twelve, 90° flutes deliver even pressure and a smooth, chatter-free cut when used with Brownells Muzzle Facing & Chamfering T-Handle (#080-589-000) or our Drill Chuck Adapter (#080-962-000). 700" diameter pilot fits factory original, Remington 700 receivers. 1" facing pilot fits AR-15 upper receivers.

**SPECS:** Hardened steel, polished finish. Cutter - 90°, 2" (5.1cm) long x 1 1/2" (3.8cm) O.D. Pilots - 2" long x .700" (17.8mm) or 1" (25.4mm) O.D.

#080-000-194AS Receiver Facing Cutter, 8K60B44... \$ 70.50

#080-000-195AS 1" Receiver Facing Pilot, 8K24B62... 28.99

#080-000-197AS .700" Receiver Facing Pilot, 8K24J34... 28.99

#080-589-000AS Facing & Chamfering Tool Handle, only, 3/4"-20 thread, 8K11H69... 14.99



## BROWNELLS RECEIVER FACING MANDREL

### Locates Receiver Between Centers For Facing Off & Contouring

Precision-machined to correctly center the receiver for lathe turning - ensures that receiver ring and threads will be square. Lets you use a tool-post grinder for fast, accurate recontouring of external surfaces - like removing a Mauser's charger guide.

**SPECS:** Steel. 12 1/2" (31.34cm) long, 1 1/2 lb. (680 g).

STOCK #	FITS	PRICE
#080-098-096AS	Small Ring Mauser	8K81Q25 \$ 93.99
#080-098-001AS	Large Ring Mauser	8K74P30 \$ 84.99
#080-098-003AS	'03 Springfield	6K65J08 \$ 74.99
#080-098-700AS	Remington 700	8K75B00 \$ 86.99
#080-098-070AS	Win. Model 70	6K74H25 \$ 125.95

## BROWNELLS REMINGTON 700 SAKO EXTRACTOR INSTALLATION JIG

### Provides Accurate, Consistent Setup; Saves Valuable Shop Time

Precision made, steel V-block provides consistent, repeatable machine setups and avoids costly milling mistakes while improving production time. V-block jig acts like a vise and clamps the rifle bolt at the correct milling angle for the perfect extractor cut. Compact unit fits standard mill vises and provides plenty of working space for fast, accurate turn-around. A must-have for fitting Sako extractors to Remington 700 bolts. Instructions included.

**SPECS:** Steel, black oxide finish. 3" (7.6cm) long, 1 1/4" (3.2cm) wide, 1 1/2" (3.8cm) high.

#080-000-505AS Sako Extractor Jig, 8K56E83... \$ 79.99



## BROWNELLS BOLT LAPPING TOOLS

### Gives Constant Spring Pressure For Precise Mating Of Locking Lug Recesses

Spring-loaded tool gives constant, straight-back pressure to keep bolt lugs square against the receiver while lapping with 600 to 800 grit, silicon carbide abrasive. Provides better results than mere thumb pressure. Interchangeable threaded sleeves fit popular actions listed on chart.

**SPECS:** 3 1/4" (9.5cm) long, 3/4 lb. (340 g). M14/M1A Set sleeve includes large diameter plunger and special lapping handle required for these models. Mauser Large sleeve fits large ring Mauser actions. Mauser Small fits small ring Mauser actions. Savage Small sleeve fits Savage actions in all calibers except Rem Ultra Mag (RUM), Rem SA Ultra Mag (RSUM), and Win Short Mag (WSM). Savage Large sleeve fits Savage actions on ly in RUM, RSUM, and WSM calibers. One Gun Set contains bolt tool body, plunger, and correct size sleeve for model listed. M14/M1A One Gun Set contains bolt tool body, large diameter plunger, correct size sleeve, and special sleeve, and special bolt lapping tool unique to M14/ M1A/M1 Garand only. Kit contains all tools necessary to lap all models listed in chart. \*/\*\*Special price, see below.

STK# 1-GUN SET	STK# SLEEVE	FITS
#080-097-701AS	#080-097-700AS	Remington 700
#080-097-170AS	#080-097-070AS	Win. 70/Ruger M77
#080-097-101AS	#080-097-014AS	M14/M1A/M1 Garand
#080-097-198AS	#080-097-098AS	Mauser Large
#080-097-196AS	#080-097-096AS	Mauser Small
#080-097-004AS	#080-097-001AS	Savage Small
#080-097-005AS	#080-097-002AS	Savage Large
— Advise # — One Gun Bolt Lap Set, 8K45M71..... \$ 52.99		
— Advise # — Individual Thread Sleeve, 8K20N28..... 25.99		
#080-097-101AS	*M14/M1A Bolt Lap Set, 8K55A70... \$ 64.99	
#080-097-113AS	Bolt Tool Body & M14/M1A Plunger, only, 8K30M06..... 36.99	
#080-097-014AS	**Garand Sleeve & Handle, 8K31G42..... 38.99	
#080-097-100AS	Bolt Tool Body, only, 8K29J25..... 36.99	
#080-097-000AS	Bolt Lapping Tool Kit, 8K196L68..... 251.99	



## JME INNOVATIONS SPLIT RETHREADING DIE

### Dies Help Make Thread Repair Easy

Steel rethreading dies help clean up cross-threaded or other wise damaged threads, especially those commonly found on the muzzles of AR-15 style rifles. Two-piece split design lets you start the die from the top down or from the bottom up, giving maximum flexibility for thread repair. Hex shape makes it possible to use with adjustable wrench. Available in 1/2"-28 or 3/8"-24 threads.

**SPECS:** A2 tool steel, 1" (2.5cm) O.D. 1/2"-28 or 3/8"-24 threads.

#100-015-333AS 1/2"-28 Split Rethreading Die, 6A28H99..... \$ 28.99

#100-015-334AS 3/8"-24 Split Rethreading Die, 6A42B99..... 42.99



## BROWNELLS M-98 BOLT SHROUD TAP

### Restores Internal Threads After Welding

Specially manufactured tap easily cleans and chases the internal buttress threads after welding or shaping of the bolt handle. Quickly and safely removes heat scale and oxidation without altering the size or fit of the bolt shroud threads.

**SPECS:** High speed steel .528"-13, 60° buttress threads.

#080-598-513AS Mauser Bolt Shroud Tap, 2K80M34..... \$ 93.99



## BROWNELLS BARREL/RECEIVER TAPS & DIES

### Clean Up Barrel & Receiver Threads For Fast, Easy Installation

Clean and chase dinged or imperfect threads, either on the barrel or in the receiver. Real lifesavers for any rebarreling job, especially good when installing any of our "no-lathe", prethreaded barrels. Thanks to Walt Warren for his suggestion.

**SPECS:** High speed steel. Dies are 2" diameter except Savage which is 2.5" diameter. .980"-12 tpi fits Small Ring Mauser (plug tap cuts full-depth threads on small ring 98s with internal shoulders). 1.00"-16 tpi fits FN-FAL; 1.10"-12 tpi fits Large Ring Mauser; 1 1/16"-16 tpi fits Remington 700 and XP-100; 1.055"-20 tpi fits Savage 110/112.

#080-598-980AS	Small Ring Mauser Tap, 2K98L59... \$ 109.99
#080-598-981AS	Small Ring Mauser Die, 2K123D24..... 135.99
#080-598-982AS	FN-FAL Tap, 8K82P77..... 89.99
#080-598-151AS	FN-FAL Die, 8K117M95..... 137.99
#080-598-111AS	Large Ring Mauser Tap, 2K117G88..... 129.99
#080-598-110AS	Large Ring Mauser Die, 2K148L95..... 169.99
#080-598-116AS	Remington 700 Tap, 2K77A15..... 86.99
#080-598-117AS	Remington 700 Die, 2K120M83..... 128.99
#080-598-155AS	Savage Tap, 2K101A81..... 114.99
#080-598-156AS	Savage Die, 2K159M17..... 169.99
#325-100-186AS	#49 Die Stock, 5B15G99..... 15.99



## BROWNELLS BARREL THREAD RESTORATION KIT

### Repair Damaged Threads Or Makes New Ones

This handy tap and die kit from Brownell's allows you to cut or restore 1/2"-28 threads. Tap is made from high speed steel and is ideal for cleaning the threads on your flash hider, muzzle brake, or compensator. Innovative split die allows you to start the die on clean barrel threads, and work your way over the damaged areas. Die is made from A-2 tool steel, and are heat treated for extra strength and durability.

**SPECS:** Fits 1/2"-28 threads. Tap - High speed steel. Die - A-2 tool steel.

#080-001-158AS Barrel Thread Restoration Kit, 8K43D29..... \$ 48.98



## CHAPMAN SAFETY MILLING FIXTURE



**Correctly Holds Bolt Shrouds For Milling**

Cuts machine time in half by doing milling cuts in three easy steps. Holds .98 or .03 bolt shrouds. Detailed instructions included.

**SPECS:** Machined aluminum. 4" (10.2cm) lg, 3" (7.6cm) w, 1" (2.5cm) thick.

**#201-100-000AS Safety Milling Fixture, 1K50Q00 . . . \$ 50.00**

**SAFETY INSTALLATION TOOLING** - Correctly modify military safety shrouds to accept two-position safeties from Chapman and Precise Metalsmithing.

**SPECS:** Combination Arbor - Steel, blue. 1/2" (12.7mm) shank, accepts 1/2" through 1" arbor slotting saws. Slotting Saw - HSS, 30 tooth, 3" (7.6cm) dia., 1" (2.5cm) dia. arbor, 1/4" (3.1mm) thick. Woodruff Cutter - HSS, 1" dia., 1/4" (5.5mm) thick, shank dia. 1/2" (12.7mm).

**#549-827-105AS Combination Arbor, 9D33C13. . . . . \$ 33.13**

**#549-031-330AS Slotting Saw, 9D57K68 . . . . . 59.99**

**#549-030-601AS Woodruff Cutter, 9D29K99 . . . . . 29.99**



## BROWNELLS BOLT FACING LATHE BIT

**Expertly Ground, Ultra-Hard Cobalt Alloy**

Cobalt alloy bit provides maximum cutting force to open bolt faces to magnum dimensions. Back rake, front and side clearance, lip angle, cutting angle and chip rake are ground to give best performance in steel. A must if you don't have a tool-post grinder.

**SPECS:** 2 1/4" (5.4cm) long, 1/4" (6.3mm) or 3/16" (7.9mm) square.  
**#080-659-250AS 1/4" Bolt Facing Bit, 3B14C49 . . . . . \$ 20.99**  
**#080-659-375AS 3/16" Bolt Facing Bit, 3B18P70 . . . . . 24.99**



## BROWNELLS BOLT HEAT SINKS FOR BOLT WELDING & FORGING



**Protects Critical Locking Lugs When Welding Or Forging Bolt Handles**

Provides protection to locking lugs when welding or forging bolt handles by pulling heat away from these critical areas and dissipating it. Especially effective when used with Heat Control Paste. Threaded to fit securely into rear of bolt body, giving additional protection to interior threads by preventing scale formation. Flats milled on end allow use of wrench. Available separately or as a Set of five.

**SPECS:** Steel, blue. 4 1/2" (10.8cm) to 5 1/2" (14cm) long depending on the model. #1 - 1903 & 03A3 Springfields, #3 - 98 Mauser, #4 - Remington 700, #5 - Winchester M70.  
**#080-638-001AS #1 Bolt Heat Sink, 8K22C25. . . . . \$ 24.99**  
**#080-638-003AS #3 Bolt Heat Sink, 8K22D25. . . . . 24.99**  
**#080-638-004AS #4 Bolt Heat Sink, 8K22P25. . . . . 24.99**  
**#080-638-005AS #5 Bolt Heat Sink, 8K22P03. . . . . 24.99**  
**#080-638-000AS Bolt Heat Sink Set, 8K80P47 . . . . . 100.99**

## LA BOUNTY BOLT FIXTURE & ACTION TRUING SLEEVE



**Faster, More Precise Lathe Setup For Turning Bolts & Truing Actions**

**Bolt Fixture** - A simple and rigid lathe fixture that holds most common rifle bolts in a four-jaw chuck for face and locking-lug truing (both front and rear surfaces) or opening up the face to accept magnum cartridges. **Action Truing Sleeve** - Steel sleeve is pre-drilled to securely hold Remington 700 actions by the front ring. After turning the O.D. of the sleeve on centers, sleeve and action can be located in a four-jaw chuck for accurate truing of locking lug recesses and single-pointing or tapping of barrel threads. **Receiver Mandrels** - Trues action to bolt raceway rather than threads, which may not be aligned to action. Two sizes (.701" and .703") to fit actions with nominal .700" diameter raceways. Spare .703" mandrels available separately. Instructions included.

**SPECS:** Bolt Fixture - Steel, blue. 7" (17cm) long, 1 1/2" (4cm) diameter shank, includes clamps and screws. Action Truing Sleeve - Steel, in-the-white. 2" (5cm) long, 2 1/4" (5.7cm) diameter. Receiver Mandrels - Steel, hardened to Rc 45, in-the-white, 10" (25.4cm) long. .701" (17.80mm) and .703" (17.86mm) diameter. Fits nominal .700" diameter bolt action receivers.

**#521-100-000AS Bolt Fixture, 1B165N00 . . . . . \$ 165.00**  
**#521-101-000AS Action Truing Sleeve, 1B14A50 . . . . . 14.50**  
**#521-103-000AS Set of 2 Receiver Mandrels, 1B60P00 . . . . . 60.00**  
**#521-103-703AS .703" Receiver Mandrel, 1B25G95 . . . . . 25.95**

## SAKO EXTRACTOR MILLING CUTTERS



**Helps You Install A Durable Sako Extractor On Your Remington Bolt**

Carbide, center-cutting, four-flute mills precisely cut the groove necessary to install a Sako extractor on your Remington bolt for positive, reliable extraction. High-cobalt content improves feed rates for fast cutting. Order the cutter that matches the width of your Sako extractor.

STOCK #	SLOT WIDTH	SIZE	PRICE
<b>#317-000-005AS</b>	.152"	3/32"	7A24K99 \$ 24.99
<b>#317-000-006AS</b>	.172"	1/16"	7A24C99 \$ 24.99
<b>#317-000-007AS</b>	.231"	5/64"	7A32I40 \$ 32.40

## BROWNELLS MAUSER 98 CROSS BOLT WRENCH



**Fits M-98, 2-Pin, Cross Bolt Nut**

Correct pin spacing, O.D. and relieved center for fast removal of M-98 stock cross bolts.

**SPECS:** Tool steel. 4 1/2" (10.8cm) long x 3/16" (14.3mm) diameter.  
**#080-098-100AS Mauser 98 Cross Bolt Wrench, 8K24D09 . . . . . \$ 26.99**  
**#080-098-104AS 4 Replacement Pins for Mauser Cross Bolt Wrench, 8K5G83 . . . . . 7.99**

## JME INNOVATIONS AK-47 FLASH HIDER RETREADING DIE



**Repairs Damaged Muzzle Threads**

Revolutionary, two-piece split retreading die repairs damaged AK-47 muzzle threads. Simply place the two pieces of the die together on the good threads above or below the damaged area, then turn the die to recut the threads. No need to worry about cross threading.

**#100-016-683AS AK-47 Barrel Flash Hider Die, 6A42I99 . . \$ 42.99**

## BROWNELLS BOLT WELDING JIG

**Quickly Aligns & Positively Holds Bolts & Knobs For Welding**



Makes it possible to lock both knob and bolt precisely in the desired relationship and hold them firmly, while leaving adequate space to weld by either the acetylene or arc methods. The jig simplifies what used to be a real chore, setting the knob and bolt into correct alignment. Without the jig to hold it all together, one incautious movement could upset the alignment, leaving the work to be done all over again. The improved, bent arm leaves plenty of room so you can install a heat sink, plus gives easier access for the welding torch. The jig employs a different approach to aligning the handle to the bolt by using a protractor supplied with the jig kit. Full and completely illustrated instructions are supplied with each jig set. They assure an accurate setup. The Brownell Bolt Welding Jig will pay for itself many times over during the course of the years - not only in time but in saved dispositions! Further, it makes it possible for the man who does not have welding facilities in his shop to get the bolt all ready to weld, and then take it to a professional welding shop for the final work. If you have ever tried to explain to a non-gun-loving welder how you wanted the job done and then stood there and watched him "botch it up", the great value of the JIG to you is even more apparent!

**SPECS:** V-clamps are 2 1/4" (8.6cm) long x 3/4" (15.9mm) wide x 1 1/2" (3.2cm) high with 1" (2.5cm) clamp opening. One leg is 4" (10.2cm) long and the other is 7" (17.7cm). Includes protractor and detailed instructions.

**#080-016-000AS Bolt Welding Jig, 8K45G99 . . . . . \$ 45.99**

## BROWNELLS MAUSER BOLT FORGING BLOCKS



**Massive Blocks Make Custom Forging, Bolt Knob "Sweep" Easy**

No-welding method to bend a straight Mauser bolt handle for additional scope clearance. Two, machined steel, clamping blocks fully support the bolt to shape original, 93, 94, 95, 96 or 98 Mauser, round knob handle. Extra large Forming Punch has sufficient mass for complete control, lets you apply just the right amount of striking force to precisely bend and shape bolt handle to final contour. With some practice you can forge the handle so nicely that only a bit of finishing is needed. Punch has removable, hardened tip that retains its shape with repeated use. Complete instructions.

**SPECS:** Blocks - Steel, blue finish. 3 1/2" (8.9cm) long, 2" (5cm) high. Punch - 1" (2.5cm) diameter, 8 1/8" (22.5cm) long.  
**#080-941-500AS Bolt Forging Block Set, 8K60E26 . . . \$ 78.99**  
**#080-928-000AS Bolt Forging Blocks, 8K57A48 . . . . . 69.99**  
**#080-941-000AS Bolt Forging Punch, 8K23I18 . . . . . 29.99**

## BROWNELLS CENTERFIRE/RIMFIRE FIRING PIN PROTRUSION GAUGE



**Accurately Records Critical Firing Pin Protrusion On Both Centerfire & Rimfire Bolt**

Correct firing pin protrusion is critical to the entire ignition sequence. Elliptical face on the recording plunger allows accurate measuring of both rimfire and centerfire pin protrusion to within .0001". To Use: Unlock plunger, place gauge over protruding firing pin, lock plunger, lift from bolt and mike overall length. Difference between original length and miked overall length of body plus plunger, is amount of pin protrusion.

**#080-782-000AS Firing Pin Gauge, 8K34D05 . . . . . \$ 39.99**

## ARA-MOR THROAT EROSION GAUGE

**Instant, At-A-Glance Barrel Throat Wear Indicator**



Gives accurate, comparative readings on actual barrel throat erosion for all M1, M14 and M1A .30-06 and 7.62mm Nato rifles. Insert in empty chamber and take reading every 1,000 rounds to accurately measure and track barrel throat erosion.

**SPECS:** Steel. Approximately 4" (10cm) long. Includes .30-06 and .308 chamber spacers and complete instructions.

**#022-101-030AS Throat Erosion Gauge, 2B75D33 . . . . . \$ 79.99**

**BOLT RIFLE SPACERS** - Measures throat erosion for .30-06 caliber 03/A3, Win. M-70 and Rem. 40-X rifles, and .300 Win. Mag. caliber Win. M-70 and Rem. 40-X rifles.

**#022-101-306AS .30-06 Throat Erosion Spacer, 2B13N99 . . . . . \$ 13.99**

**#022-101-300AS .300 Mag Throat Erosion Spacer, 2B13D99 . . . . . 13.99**

## W.H. MERCHANT THROAT EROSION GAUGE



**Instant Read-Out Checks Throat Wear**

Presents a quick and accurate indication of barrel/throat wear. Use every 1,000 rounds to obtain a comparative reading of throat erosion. Provides match shooters and varmint hunters an easy, convenient method to determine remaining barrel life. Models for rifles chambered in .223, .30 M1 Carbine, and .30-06 M1 Garand. The other end of the Garand gauge is calibrated to measure bore erosion at the muzzle.

**SPECS:** Steel. Includes complete instructions. .223 - Also fits .222 and .22-250. 3 1/2" (8.9cm) long. .30 M1 Carbine - 2 1/4" (5.2cm) long. .30-06 M1 Garand - 5" (12.7cm) long.

**#565-017-223AS .223 Throat Gauge, 5F38G26 . . . . . \$ 44.19**

**#565-000-008AS .30 M1 Carbine Throat Gauge, 5F38H90 . . . . . 44.95**


**#565-000-009AS .30-06 M1 Garand Throat Gauge, 5F36L94 . . . . . 39.99**

**#565-000-011AS M14/M1A Throat Erosion Gauge, 5F38F90 . . . . . 44.95**



## BROWNELLS CERROSAFE® CHAMBER CASTING ALLOY

Never Wears Out - Use Over & Over

There are various products on the market which can be used to make a cast of a gun chamber. To be certain that the product we are offering you is the best and most practical, we contacted the basic manufacturer. They recommended Cerrosafe because of its unique features. Unlike Woodsmetal which swells upon cooling and cannot be removed from a gun chamber, Cerrosafe shrinks during the first 30 minutes of cooling and then at the end of an hour, is EXACTLY chamber size. At the end of 200 hours it will have expanded approximately .0025". This factor is well known by all toolmakers and they will take it into consideration when making dies or reamers or gauges from your cast - if you will tell them the cast is of Cerrosafe. Cerrosafe melts between 158° - 190° F. It should be melted in a clean, iron ladle. Source of heat should be removed as soon as the alloy is completely melted, at which time it is ready to pour. The solidified casting should be removed from the chamber before, or when, it cools to room temperature. If allowed to remain in the mold over an hour, it will grip the chamber walls and be difficult to remove. Clean the chamber of the rifle thoroughly, then plug the bore immediately ahead of the throat with a small rag - but not so tightly it cannot be driven out. If possible, pour the molten Cerrosafe through a small tube into the bottom of the cast, gradually removing the tube as the chamber fills. If the barrel is cold, warm it to room temperature or above before making the cast. When cooled, remove from chamber, using a rod or dowel from the muzzle end of the gun.    
**SPECS:** Solid by weight. Alloy. Infinitely reusable.

#080-027-100AS 1 lb. Cerrosafe Alloy, 8K36L00 ..... \$ 45.99  
 #080-027-050AS 1/2 lb Cerrosafe Alloy, 8K22K22 ..... 24.99

## HORNADY OVERALL LENGTH GAUGE



Helps Minimize Bullet "Jump" For Accurate Handloads

Use this adjustable gauge, modified case, and your dial calipers to help you select the optimum bullet seating depth for your bolt rifle. Includes instructions.   
**SPECS:** Gauge - Machined aluminum, 12" (30cm) long, anodized finish, red. Modified Case - Brass. Purchase Gauge and Modified Case separately. **Straight Gauge** for bolt and single shot actions. **Curved Gauge** for auto, pump, and lever actions.

#829-200-000AS Straight Overall Length Gauge, 3Z32M99 ..... \$ 32.99  
 #829-200-001AS Curved Overall Length Gauge, 3Z39B99 ..... 39.99

### MODIFIED CASES

STOCK #	CARTRIDGE	PRICE
#749-001-396AS	223 Rem	3Z6G29 \$ 6.29
#829-200-225AS	22-250 Rem	3Z5H25 \$ 5.49
#829-200-243AS	243 Win	3Z5J25 \$ 5.49
#829-000-024AS	260 Rem	3Z5H25 \$ 5.49
#829-200-270AS	270 Win	3Z5K25 \$ 5.49
#829-200-708AS	7mm-08 Rem	3Z5Q25 \$ 5.49
#829-200-284AS	7mm Rem Mag	3Z5A25 \$ 5.49
#829-200-308AS	308 Win	3Z5C25 \$ 5.49
#829-200-306AS	30-06 Springfield	3Z5H25 \$ 5.49
#829-200-300AS	300 Win Mag	3Z5E25 \$ 5.49

## MENCK .22 CHAMBER IRONING TOOL

Swages Dry Firing Burrs Out Of .22 Chambers

Swages out burrs in .22 chambers caused by excessive dry firing. Insert and turn, or tap against burr until chamber is smooth and round again. Can be pushed in and turned with its own handle, a **MAGNA-TIP®** or a small wrench or, threaded into an 8-32 cleaning rod and pulled into the chamber, or driven into the chamber from the rear with a small punch.   
**SPECS:** 1 1/2" (2.7cm) long. (tool only). 7 1/4" (18.4cm) long w/ handle. Wt. 1 1/2 oz. (43 g). Swage is case hardened 1117 steel.

#590-009-022AS .22 Ironing Swage, 9E24M99..... \$ 24.99

## BROWNELLS RIFLE POLISHING SYSTEM



Cures Sticky Extraction For Fast, Reliable Cycling

Abrasive silicon carbide balls polish rough or scored chambers smooth and friction free in only minutes. Helps cure sticky extraction for faster, more reliable cycling. Use **Flex-Hone Oil Only**. Instructions included.   
**SPECS:** 400- or 800-grit silicon carbide abrasive, twisted steel shafts. Must be used with Flex-Hone oil. **AR-15 Hone** in 223 Rem. **9mm Pistol Hone** for handguns.

- NEW** 080-001-176AS 17/22 Rifle Hone, 400 Grit, 8K33N22 ..... \$ 39.99  
**NEW** 080-001-177AS 17/22 Rifle Hone, 800 Grit, 8K33N88 ..... 39.99  
 #080-000-717AS .223/5.56 Rifle Hone, 400 Grit, 8K41N41 ..... 49.99  
**NEW** 080-001-188AS AR-15 Rifle Hone, 400 Grit, 8K40M72 ..... 44.99  
**NEW** 080-001-189AS AR-15 Rifle Hone, 800 Grit, 8K40I72 ..... 44.99  
**NEW** 080-001-184AS 243 Rifle Hone, 400 Grit, 8K40M72 .. 44.99  
**NEW** 080-001-185AS 243 Rifle Hone, 800 Grit, 8K40M72 .. 44.99  
**NEW** 080-001-186AS 7.62x39 Rifle Hone, 400 Grit, 8K40L72 ..... 44.99  
**NEW** 080-001-187AS 7.62x39 Rifle Hone, 800 Grit, 8K40K72 ..... 44.99  
**NEW** 080-001-178AS 308 Rifle Hone, 400 Grit, 8K33G88 .. 39.99  
**NEW** 080-001-179AS 308 Rifle Hone, 800 Grit, 8K33A88 .. 39.99  
**NEW** 080-001-180AS 30-06 Rifle Hone, 400 Grit, 8K33B88 ..... 39.99  
**NEW** 080-001-181AS 30-06 Rifle Hone, 800 Grit, 8K40G72 ..... 44.99  
 #080-608-338AS 38/.357 Rifle Hone, 800 Grit, 8K32F75 ..... 40.95  
**NEW** 080-001-190AS 38/.357 Rifle Hone, 400 Grit, 8K33Q55 ..... 39.99  
 #080-608-344AS 44 Rifle Hone, 800 Grit, 1B34C07 .. 42.99  
 #080-608-345AS 45 Rifle Hone, 800 Grit, 1B34E40 .. 42.99  
**NEW** 080-001-182AS 9mm Pistol Hone, 400 Grit, 8K33L22 ..... 39.99  
**NEW** 080-001-183AS 9mm Pistol Hone, 800 Grit, 8K33H55 ..... 39.99
- FLEX HONE OIL** - Specially formulated for use with Flex Hone brushes. Contains both honing and lapping oils in a petroleum base that will not harm aluminum, brass or steel. (Use of other oils destroys abrasive ball and voids guarantee.)   
 #080-609-008AS 1/2 Pint Flex Hone Oil, 1B10F92 ..... \$ 13.49  
 #080-609-000AS Quart Flex Hone Oil, 1B17B29 ..... 21.98

## SUPERIOR SHOOTING SYSTEM FINAL FINISH SYSTEM™

Polishes Bore, Reduces Fouling, Gives Easier Cleaning



Abrasive coated bullets polish bore and throat to remove tool marks, rough areas and high spots. Eliminates the primary cause of lead and copper fouling and makes cleaning easier and less time consuming. Long bullets provide maximum bearing surface for efficient polishing. Each caliber kit includes 10 bullets, in five grits to progressively smooth and polish bore.   
**SPECS:** 50 bullets. Plastic storage box. Instructions included.

STOCK #	CALIBER	WEIGHT(GRAINS)	PRICE
#840-000-001AS	.224 rifle	80	4H34K99 \$ 34.99
#840-000-002AS	.243 rifle	107	4H34G99 \$ 34.99
#840-000-004AS	.264 rifle	142	4H34K99 \$ 34.99
#840-000-005AS	.270 rifle	135	4H34G99 \$ 34.99
#840-000-006AS	.284 rifle	130	4H34H99 \$ 34.99
#840-000-007AS	.308 rifle	190	4H34G99 \$ 34.99

## BARSKA AK-47/AKM/SKS FRONT SIGHT ADJUSTMENT TOOL



Adjusts Windage & Elevation

Compact steel tool easily adjusts windage and elevation on most makes and models of AKseries and SKS rifles. The C-clamp sight pusher moves the sight drum to the left or right for windage adjustments. The end of the T-handle fits into the elevation post and provides plenty of leverage to easily move even a stubborn post. Speeds up the whole process of sighting in your SKS or Kalashnikov.   
**SPECS:** Carbon steel, black oxide finish. Frame - Approximately 2 1/2" (6.7cm) long, 1/2" (1.3cm) wide, 1 1/2" (3.8cm) high, 1/16" (1.7cm) throat. 4.7 oz. (133g) wt.  
 #100-006-572AS AK-47/SKS Front Sight Adjustment Tool, 8F11E21 ..... \$ 12.99

## MAGNA-MATIC DEFENSE AK-47-/74/AKM/SAIGA FRONT SIGHT TOOL

Fast, Easy, Precise Elevation & Windage Adjustments On A Broad Range Of AKs



Hardened steel tool enables fast, easy, precise windage and elevation adjustment on a wide variety of Kalashnikov-type rifles. The full-circle clamp is far stronger than generic C-clamps for secure, positive contact with the sight tower to adjust the sight for windage. Viewing port in the circle clamp gives you a clear view of the drum for perfect alignment. Remove the T-handle from the circle clamp and use it as a wrench to adjust the sight post for elevation. Sliding handle lets you select the length that gives you the right amount of leverage in either mode to get even a "frozen" sight to move. No extra tools required.   
**SPECS:** Steel. Fits AK-47, AKM, AK-74, RPK-47/-74, commercial Saiga rifles, and most Eastern Bloc AK variants and clones. **Standard** - 1 1/4" (4.4cm) O.D., 1/4" (1.3cm) thick, with 4 1/2" (11.4cm) long handle. **Gunsmith** - 2 1/4" (5.7cm) O.D., 1" (2.5cm) thick, with 6 1/2" (16.5cm) long handle.  
 #100-005-933AS Standard AK Sight Tool, 4D28M93... \$ 30.99

## TAPCO SKS/AK-47 FRONT SIGHT TOOL

All Steel, Adjusts Windage & Elevation



Steel C-clamp easily adjusts front sight windage and elevation on most AK-47 and SKS variants. Threaded T-handle provides the force to move front sights, opposite end of handle fits elevation post.   
**SPECS:** Steel, matte black. Clamp - 1 1/2" (3.8cm) long, 3/8" (1.5cm) wide, 1 1/2" (3.8cm) high. T-handle - 2 1/4" (5.6cm) wide x 2 1/8" (6.1cm) high. Fits most AK-47 and SKS variants.  
 #100-003-415AS AK-47/SKS Sight Tool, 5A15H75 ..... \$ 16.49

## TAPCO SKS/AK-47/M&P15T FRONT SIGHT TOOL



Makes Fast, Precise Front Sight Adjustments

Handy pocket tool makes quick work of front sight elevation adjustments on most AK and SKS variants, and the Smith & Wesson M&P15T rifle with folding front sight. Wide thumb pads provide plenty of leverage to turn even stubborn front sight posts. Brass engagement insert won't damage or scratch the metal finish.   
**SPECS:** Plastic housing, brass insert. 2 1/4" (5.7cm) long. Fits most AK and SKS variants, and S&W M&P15T.  
 #100-002-920AS AK Front Sight Tool, 5A5G30 ..... \$ 5.99

## BROWNELLS RAMP SOLDERING JIG

Spring Pressure Keeps Ramps/Bases/.45 Sights In Place



Cures the "ramp slips just as the solder melts" problem with a pointed, spring-loaded plunger that keeps constant pressure on the ramp or a .45 sight. Adjusts for height, angle and amount of spring pressure. Non-marring, "V" block base centers barrel under the plunger. Great torch clearance.   
**SPECS:** 2" (5.1cm) long, aluminum Base. 4" (10.2cm) high overall.  
 #080-739-000AS Ramp Soldering Jig, 8K73E93 ..... \$ 89.99

## WILLIAMS FRONT SIGHT PUSHER



Easiest Way To Install A Front Sight In A Ramp

In the past, there was only one acceptable way to install a front sight in a ramp - pound it in with a hammer from the side. This method frequently marred a beautiful finish and loosened or damaged the ramp. The Williams Front Sight Pusher is the easiest and best way to install a front sight in a ramp. Equalizing the pressure on ramp and sight, it permits installation without marring or damaging. Eliminates excessive pressure on the ramp. Smoothly, accurately moves sight into exact position.   
**SPECS:** Aluminum body is 4 1/8" (11.1cm) long x 1" (2.5cm) wide x 1 1/8" (3.5cm) high. Screw is steel.  
 #962-050-000AS Front Sight Pusher, 2F56N78 ..... \$ 60.99  
 #962-050-001AS Front Sight Pusher Replacement Jaws, 2F9G88 ..... 13.99

## FORSTER UNIVERSAL SIGHT MOUNTING FIXTURE



Bushing Set

### The Accurate, Professional Way To Mount Scopes & Sights

Designed to fill the exacting requirements encountered in drilling and tapping holes for the mounting of scope mounts, receiver sights, shotgun beads, etc. Accepts virtually all bolt action, lever, and pump guns; in fact, any single barrel gun as long as the barrel can be laid into the "V" blocks of the Fixture. Tubular magazine guns are done in the same manner by first removing the magazine tube.

The Fixture will locate the holes to a standard, predetermined spacing built into the over-arm, or to any other spacing by sliding the over-arm in either direction. "Run out" of the drill is eliminated as it is guided through a hardened and ground drill bushing. Tapping is done through another bushing that eliminates cocking (and breaking) the tap. The sliding over-arm has three holes with standard spacing of .500" and .860" between centers into which the interchangeable drill and tap guide-bushings fit. The over-arm is always in true alignment with the exact center of the gun barrel.

The main body of the Fixture is cast aluminum. The two "V" blocks are adjustable for height and made of hardened steel accurately ground on the "V" as well as the shaft.

**SPECS:** Approx. 20" (50.8cm) long. Comes complete with Drill and Tap Bushing Set for 6-48. Other bushings also available

STOCK #	BUSHING	STOCK #	BUSHING
<b>BUSHING SET</b>			
#319-400-132AS	10-32	#319-400-921AS	#21
#319-400-356AS	3-56	#319-400-928AS	#28
#319-400-648AS	6-48	#319-400-930AS	#30
#319-400-840AS	8-40	#319-400-931AS	#31
		#319-400-964AS	#7/64

- Advise # — Bushing Set, each, 9A20B63..... \$ 22.99
- Advise # — Drill Bushing, each, 9A6F99..... 6.99

- #319-400-000AS Forster Sight Fixture with 6-48 bushing, 9A428H63..... \$ 459.99
- #319-400-936AS Drill Bushing #36, 9A7L75..... 8.99
- #319-400-945AS Drill Bushing #45, 9A7B75..... 8.99
- #319-400-700AS Round Pad, pair, 9A2G65..... 3.99
- #319-400-900AS Forster Locating Pin, 9A10D61..... 10.99
- #319-400-901AS Forster C-Clamp, 9A18K67..... 19.99
- #319-400-902AS C-Clamp Set Screw, 9A1I55..... 1.99

## FNH PS90/P90 SIGHT ADJUSTMENT TOOL

Adjust The Factory Sights On Your FN PS90/P90



Steel tool helps adjust windage and elevation on your FN. Guide channel lets you loosen set screw with supplied Allen wrench with tool in place, and quickly tighten after adjustment. Knurled knob helps you precisely control the amount of adjustment. Factory tool ensures proper fit and function. A must-have accessory for your FN PS90-P90.

**SPECS:** Steel, matte finish. 1.5" (39mm) O.A.L. 1.8 oz (51g) wt. Knob: 1.1" (29mm) O.D.

- #119-000-060AS PS90/P90 Sight Adjustment Tool, 9A46C99..... \$ 46.99



## BROWNELLS TOOLS FOR REMINGTON 870, 1100 & 11-87



With the help of the fine folks at Remington, the armorer and gunsmith can now have a kit with tools we have adapted from factory designs for repairing and maintaining what has probably become the world's most popular pump shotgun—the Remington 870. Special thanks has to go to the entire Remington organization for recognizing the importance of proper tools to the gunsmith. This tool kit makes it easier for the armorer or gunsmith to repair the 870 at the bench or in the field. Even though some of the tools may seem like overkill, keep in mind that the designs are based on the factory's years of experience and are intended to stand up to constant use. Whether you're a department armorer or a civilian gunsmith who sees only sporting 870s, you'll have the right, factory-type tools to take apart an 870, make the repairs, and put it back together. Your satisfaction is guaranteed.

- #080-870-010AS Brownells 870 Service Kit, Complete With Tool Box, 8K321G47..... \$ 359.99
- #080-870-001AS Brownells 870 Service Kit, Tools only (no box), 8K310E75..... 339.99

- ① **870 FOREND WRENCH** - Pilot keeps "teeth" square to the forend nut, virtually eliminating damage to wrench, forend or forend nut. 12 gauge only. #080-870-202AS 870 Forend Wrench, 8K39D61..... \$ 50.99
- ② **870 DETENT STAKING PUNCH** - Stakes the magazine cap retainer without forcing metal into the I.D. of the magazine ring. #080-870-205AS 870 Detent Punch, 8K16Q08..... \$ 20.99

- ③ **870/1100 MAGAZINE SPRING RETAINER TOOL** - Guides springs into position without damage. #080-187-203AS Spring Retainer Tool, 8K35B88..... \$ 43.99

- ④ **MENCK MAGAZINE CORKSCREW** - Threads into magazine spring retainer so you can "pop" it out like a cork. #590-020-000AS Magazine Corkscrew, 9E22D99..... \$ 22.99

- ⑤ **870/1100 PIN PUSHER** - Fitted punch removes trigger group pins with no chance of slipping off and gouging the frame. #080-870-110AS Pin Pusher, 8K16G07..... \$ 19.99

- ⑥ **REMINGTON 870 RIVET STAKING TOOL SET** - Makes fitting the 870 ejector spring and housing onto Remington's 2-step rivet easy! Fastens the ejector housing to the lower portion of the rivet, then fits the upper part of the rivet to hold the ejector spring in the ejector housing. #080-612-000AS Rivet Stake Tool Set, 8K23J23..... \$ 29.99

- ⑦ & ⑧ **870/1100 SHELL LATCH STAKER** - Our tool has the correct, factory designed, rectangular swaging point to displace plenty of metal and a built-in handle, plus lots of heft to take years

Factory-Type Tools For Armorers & Gunsmiths; The Right Tools For 870 Work - Add-Ons Available For The 1100 & 11-87

of use. Includes clamp to hold ejector spring and housing secure when restaking.

- #080-870-203AS 870/1100 Shell Latch Staker, 8K59A31..... \$ 75.99

**STARRETT PIN PUNCH** - Correct size for removing the Firing Pin Retaining Pin from the bolt assembly.

- #827-525-800AS Starrett Pin Punch, 8K5K99..... \$ 5.99

- ⑩ **870/1100 BUTTSTOCK BOLT WRENCH** - Special sleeved, self-centering bit can't slip off or jam between stock and bolt head. #080-870-200AS 870/1100 Buttstock Wrch, 8K88G86..... \$ 101.99

- ⑪ **870/1100 SCREWDRIVER SET** - Our special Law Enforcement, MAGNA® Clip-Tip handle with 5 bits specific to 870 work. #080-088-870AS 870/1100 Screwdriver, 8K16E97..... \$ 19.99

- ⑫ **REMINGTON 870 OWNER'S MANUAL** - Factory, 22 page manual has full instructions on safety, parts identification and assembly, loading/unloading, cleaning, plus an exploded view drawing and full parts list. Available as a download from Brownells.com. #818-600-100AS 1" Nylon/Brass Hammer Combo, 8A19B99..... \$ 19.99

- ⑬ **1" NYLON/BRASS HAMMER** - The Brass head and 6 oz. weight is perfect for driving the various punches supplied in the 870 Armorer's Kit. Nylon head provides a non-marring "tap." #818-600-100AS 1" Nylon/Brass Hammer Combo, 8A19B99..... \$ 19.99

- ⑭ **ARMORER'S BRUSH** - Perfect shape and stiffness for removing metal filings, abrasive stone dust, etc., from recesses. #821-135-210AS Armorer's Brush, 8K7N65..... \$ 8.99

- ⑮ **MF-46 MEDIUM INDIA STONE** - Removes burrs and roughness for smoother functioning. #657-246-146AS MF-46 India Stone, 7E10D34..... \$ 10.99

- ⑯ **ASSEMBLY/DISASSEMBLY MAT** - Solvent/oil-resistant, no-slip, no-scratch work surface. Rolls up for easy carrying. #358-128-316AS Assy/Disassy Mat, 8E20L55..... \$ 22.99

- ⑰ **GUN/PARTS CLEANING BRUSH** - Solvent-proof polypropylene brush for hard scrubbing. Narrow row for grooves and slots; toothbrush end for general scrubbing. #676-450-001AS Gun/Parts Brush, each, 8K1B40..... \$ 3.99

- ⑱ **870/1100 CARRIER PIVOT SLAVE PIN** - Greatly simplifies assembly of the "Fire Control Assembly." Tapered "nose" lines up Carrier, Carrier Dog Washer and Trigger Plate. Carrier Pivot Tube follows the Slave Pin through and into place. #080-870-204AS Carrier Pivot Slave Pin, 8K10E69..... \$ 12.99

- ⑲ **870 SERVICE KIT BOX** - Roomy, Field Tool Box with the distinctive 870 Service Kit label. Holds all the Kit tools easily, with room left over for personal favorites. Oil and solvent-proof. #080-870-303AS 870 Armorer's Kit Box, 8K12M49..... \$ 16.99

### 1100/11-87 TOOLS (MUST BE PURCHASED SEPARATELY)



**INTERCEPTOR LATCH SPRING REMOVER** - Use to push back the swaged metal holding the Interceptor Latch Spring in place.

## BROWNELLS TACTICAL SHOTGUN FIELD MAINTENANCE PACK



Complete, Dedicated Tool Kit For Maintenance & Repair Of Law Enforcement Shotguns

Compact, go anywhere kit contains all the essential tools needed to disassemble, maintain, and repair today's common tactical and law enforcement shotguns. Not a run-of-

the-mill cleaning kit with generic tools, but a set of carefully selected, high-quality armorer tools designed to perform specific tasks on Benelli, Mossberg 500/590/835, and Remington 870/1100/11-87 shotguns. You'll have the exact tool you need at your fingertips, without scrounging through a case full of tools for other guns or lugging around unnecessary weight. There's a universal double-ended forend wrench for easy, non-slip removal of the forend nut without damage. Magazine tube pliers have adjustable, padded, curved jaws for easy removal of mag tubes and stuck magazine caps without marring the finish. T-handle driver comes with correct sockets for removing buttstock bolts, including a self-guiding, sleeved socket for the 870 and a socket for the new action spring tube nut on current-production Remington Model 11-87 Police shotguns (will also fit current 1100). Use the punch set with the brass/nylon head hammer and non-marring bench block to remove retaining pins while protecting the gun's finish. The full-size #84 Magna-Tip screwdriver comes with the necessary interchangeable bits, including a 12-gauge shotgun choke tube wrench and an extra-long 3/16" Philips head bit for recoil pad screws. Our handy packing hook tool is indispensable for grasping, locating, or releasing springs and small parts. Plenty of compartments inside the water- and tear-resistant, 1000 denier Cordura case let you secure the tools to minimize unwanted shifting and noise. Quiet, #9 YKK nylon zippers with oversize pulls ensure fast, easy access to the tools. Front panel features a clear, I.D. card sleeve, loop strip for name tape, and 3/4" wide, nylon grab handles for easy carry.

**SPECS:** Contains tools for working tactical/law enforcement models of Benelli, Mossberg 500/590/835, and Remington 870/1100/11-87 shotguns. Contents - Magna-Tip® screwdriver handle with #210- 5 and #270-5 slotted bits, 3/16" Philips bit, and Magna-Tip choke tube wrench; 12-gauge shotgun forend wrench; magazine tube/cap pliers; 3/16" socket drive, T-handle, and extension with 3/16" socket, drag link, Rem 870/buttstock bolt socket, and 3/16" socket for current-production Rem 1100/11-87 action spring tube nut; nylon/brass hammer; nylon bench block; 6" chain nose pliers; 3/16" and 1/8" starter punches and pin punches; packing hook; 12-gauge shotgun Bore Snake®; 1/4 oz. (7.4ml) Friction Defense® gun oil; and double-ended parts cleaning brush. Case - 1000 denier Cordura® nylon, O.D. green. 11 1/2" (29.2cm) long, 8 1/2" (21.6cm) high, 3" (7.6cm) thick.

- #080-000-583AS Brownells Tactical Shotgun Maintenance Pack, 8K295L39..... \$ 312.99

- SPECS:** 6 1/4" (17.1cm) long. 3/8" (9.5mm) wide. Steel. #080-187-202AS Interceptor Latch Spring Remover, 8K21L35..... \$ 24.99

- 6" CHAIN NOSE PLIERS** - Just the right size to reach in and squeeze the Link connecting the Action Spring Follower and Action Bar Assembly together for removal. #191-103-360AS 6" Chain Nose Pliers, 1A14M47..... \$ 15.99

- .060 X 2 1/2" BROWNELLS REPLACEABLE TIP PIN PUNCH** - Fits Carrier Latch Pin to push it all the way through, plus works as alignment pin for reassembly.

- 1100/11-87 GAS RING BRUSH** - Heavy, stainless steel, bristled brush gets fouling out of gas ring steps. Solvent-proof handle. #084-168-000AS Gas Ring Brush, 4H9Q64..... \$ 12.99