WHEELER ENGINEERING SAVAGE 10/110 **BARREL NUT WRENCH SET**



Correct Fit & Plenty of Torque for Fast Barrel Swaps

The Savage 10/110 series of rifles is known for three things: (1) being surprisingly accurate

for a (2) "budget" rifle and having (3) a barrel that's quite easy for the non-gunsmith to swap himself. As a result, these rifles have become quite popular as the foundation for custom target rifles. A 10/110 with a good target barrel can deliver darned tight groups. The barrel may be much easier to change than those of most other bolt rifles, but it still requires a properly configured wrench such as these wrenches from Wheeler Engineering. One wrench is for notched barrel nuts, the other for smooth nuts, and they fit ALL generations of 10/110 and 12 series rifles with both short and long actions. The notched wrench is about 113/4" long, and the tension-adjustable smooth wrench is 7.5" long. Both are made of hardened 3/16" thick steel, with a matte black oxide finish, and have 1/2" square drive holes for a breaker bar or torque wrench so you can get the leverage you need to do a proper job.

#100-024-575	Savage 10/110 Barrel Wrench Set,		
	7A24B57\$ 28.35		

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

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.

#080-000-978	16S 5.56 Barrel Straightness Gauge,	
	8K17L80	20.76
#080-000-979	17S 7.62 Barrel Straightness Gauge,	
	8K16A00	19.99
#080-000-980	Ejector Removal Tool, 8K16L99	19.99
#080-000-982	Trigger Module Mounting Axis,	
	8K15A99	19.99

BADGER ORDNANCE REMINGTON 700 **ACTION V-BLOCK**



THE Helpful Tool You Want When Doing Mill Work on the Receiver

Use this precision-machined steel block when you are using piloted tooling to re-thread the receiver, lap the lugs, open the

mounting holes or are doing any type of mill work. Fits both SHORT and LONG action Remington 700s. Made from 4140 carbon steel hardened to Rockwell "C" 60. Manganese phosphate Parkerized.

-747	Remington /00 Action V-Block,	
	3K00JWB	. \$ 199.99

FIELD MAINTENANCE PACK

BROWNELLS TACTICAL RIFLE



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 waterand 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 guiet #9 YKK zippers with oversize 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; ½16", ⅓8" and ⅓4" pin punches; ½2" 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.

#080-000-458 M16/M4 Field Pack, 8K268J99 \$ 268.99

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, 1/4" square-to-hex drive converter, ball-hex "L" wrench set, bolt ejector tool set, bolt disassembly tool, nylon/brass hammer, 1/16" and 1/8" pin punches, .120" brass alignment/push punch, 12"x24" bench/ field mat. Approx. 5 lb. (2.3 kg) wt.

#080-000-457 Rem. 700 Field Pack, 8K392P15 \$ 420.99

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 pliers, 1" nylon/brass hammer, 4 oz. ball peen hammer, 6" adjustable crescent wrench, 6" mill file, starter punch set (1/16", 3/32", 1/8" & 5/32"), pin punch set (1/16", 3/32", 1/8" & 5/32"), prick punch, center punch, Delrin® bench block, double-ended nylon gun parts cleaning buish, stainless steel cleaning brush, #3 acid brush, cleaning rod (4 sections with slotted tip), 8-32 to 5/16 27 rod adapter, Double-Tuff™ phosphor bronze bore brush set (7.62mm, 12.7mm, 18mm & 40mm), 40mm cotton bore mop, and (100) 1¹/₄" dia. heavy duty flannel cotton patches, in a heavy duty O.D. green Cordura nylon case. Case is approximately 11" (27.9cm) long, 91/2" (24.1cm) high, and 31/2" (8.9cm) thick.

#080-000-522 Foreign Weapons Field Maintenance Pack, 8K379N99.....\$ 379.99

GUARANTEED.FOREVER.®

SINCE 1939

LONGRIFLES AR-15/AR-308/RUGER® RPR **BARREL WRENCH**



Helps You Quickly Remove/Install a Barrel, Without Risk of Damage

This wrench aids you in fast, reliable. safe removal/installation of an AR-pattern rifle's barrel nut. It eliminates the headaches of sheared-off pins, damaged barrel nuts, failed wrenches, and blood loss

from the operator (namely, YOU). The LongRifles wrench provides secure, non-slip 360-degree contact with the barrel nut - no way this wrench is gonna slip off! A pinch bolt gently cinches the wrench head to the barrel nut, eliminating offset loads that lead to slippage and damage to the barrel or its finish. Fits the standard AR-15 barrel nut as well as DPMS LR-308 (and clones) and the Ruger Precision Rifle®. There's a $^1\!/_2$ " drive socket for use with standard torque wrench or breaker bar, and you can use a 5/8" six-sided drive, too. Machined from billet steel - NOT A CASTING, so far less risk of a hidden flaw or void in the metal leading to wrench breakage. Smooth tool contours reduce wear and tear to gun parts and your hands. Tough corrosionresistant Parkerized finish. This is one beast of a barrel nut wrench! Brownells Gun Tech™ Tip: The LongRifles Action Wrench requires a little math to use. Torque wrenches are calibrated to the centerline of the square drive. This tool is offset, so its torque values have to be recalculated to ensure the desired amount is actually applied to the fastener. There are a number of Internet tools to help you do this, including this one: www.cncexpo.com/TorqueAdapter.aspx

#100-025-312 LongRifles Barrel Wrench. 7B90P70 \$ 95.99

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 Com-

mand 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-der	isity, injection-molaea polymer.	
#100-003-431	SCAR Armorer's Block Set,	
	9B152P93	\$ 182.00
#100-003-470	SCAR Upper Rec'r/Barrel Vise Block,	
	only, 9B62L99	84.99
#100-003-428	SCAR Lower Rec'r/Trigger Module	
	Block, only, 9B42J56	49.19

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, 101/21 (26.7cm) high, 31/2" (8.9cm) thick.

#080-000-459 Field Pack Case, Only, 8K66I49..... \$ 75.99

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, 7¹/₄" (18.4 cm) long.

#080-000-580 Military Weapon Takedown Tool,



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 eiect along with the broken shell extractor.

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

#080-000-441	.223 Broken Shell Extractor, 8K17Q98	\$ 19.99
	.308 Broken Shell Extractor, 8K23N49	25.11

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), 17/8" (4.8cm) long. 115/16" (4.9cm) wide, 5/16" (7.9mm) thick. F/S fits factory and Shilen lugs, H

#488-004-700 F/S 700 Barrel Lug Tool, 8H42C51..... \$ 45.54 #488-000-002 H 700 Barrel Lug Tool, 8H45G70 48.75

BROWNELLS PAGE 470

M-MACHINE

SAVAGE SMALL BARREL NUT WRENCH

A Basic Tool for Removing/Installing **Barrels Without Marring Barrel Surface**

A simple wrench for torquing down (or off) old-style Savage barrel nuts with square notches. This wrench is machined from 6061 T6 aluminum alloy, so it will not scratch or mar the barrel's surface. 3/8" thick



to provide a large contact area on the nut to evenly distribute the torquing force. The inside of the wrench measures out at 1.319" at the points where it will engage the outside of the barrel nut. Accepts a standard 3/8" square drive. Rated to withstand up to 80 ft.-lbs. of torque - far in excess of the 30 to 40 ft.-lbs. Savage recommends for installing these barrel nuts. NOTE: M-Machine recommends NOT using this wrench to remove factory installed barrel nuts.

#100-031-290 Savage Small Barrel Nut Wrench,

2H30C00.....\$ 34.99

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.

8K889K99.....\$ 962.99

Prevents Damage When Installing Barrel On Surgeon Or Reminaton 700 Action

Easy-to-use alternative to oldfashioned 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 re-

SURGEON RIFLES

ACTION WRENCH

sult 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

#100-003-675 Surgeon Action Wrench, 9B00QBN \$ 69.99

ZERMATT ARMS BIGHORN ACTION WRENCH



A Sturdy Tool for Working on Zermatt & Other Bolt Actions

Whether you're building a whole new rifle or just swapping barrels on an existing rifle built around the Zermatt Bighorn Arms action, you'll want this wrench. It is ideal for any Bighorn action that has the slot in one side because the wrench will work without disassembling the whole action. Good news: this wrench can also be used on Remington 700 and Savage bot action rifles! Tempered steel construction with a black oxide finish. It is 7/8" (.875") across the rear wrench/socket flats.

#100-036-558 Big Horn Action Wrench, 4C00JMQ.... \$ 85.00

#080-001-031 (§N SCAR Armorer's Kit,



Want To Know About What NEW Products We Just Added This Week?

Go to the **LEARN** tab at brownells.com to view intro videos and articles on your gun.



ARMORER'S KIT

BROWNELLS REMINGTON 700 -

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

#080-000-088	Remington 700 Armorer's Kit,	
	8K409G99	\$ 429.99

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

SPECS: Plastic handle, SS shank, nylon bristles. 11/2" (26cm) overall. #084-400-001 Universal Bolt Brush, 8K7M49..... \$ 9.99

2 <u>KLEINEDORST REMINGTON FIRING PIN TOOL</u> - Compress-

es the firing pin spring for easy disassembly. SPECS: 5¹/₂" (14cm) long. ³/₄" (19mm) wide. 1³/₄" (4.4cm) high. Weighs 10

oz. (28.3g). Aluminum base, steel screw. #488-002-000 Rem. Firing Pin Tool, 8H42E51 \$ 45.75

(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. #080-792-100 Bolt Ejector Tool Set, 8K30I09 \$ 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. 43/4" (12cm) long. 31/4" (8.3cm) long shank.

#080-000-025 ◎ .120" Brass Alignment & Push Punch, 8K7B78.....\$8.99

(5) <u>BALL-HEX WRENCH SET</u> - 12-wrench set ranges from .050 to 5/16". Excellent for installation and removal of scope rings and bases. SPECS: 27/8" (7.3cm) - 61/2" (16.5cm) long. 12 sizes: .050", 1/16", 5/64", 3/32", 7/64",

#123-109-000 Inch Ball-Hex Wrench Set, 3B10P47 \$ 14.99

(6) T-HANDLE TORQUE WRENCH - 45 inch pound, torque wrench tightens triggerguard screws to Remington factory specs. SPECS: Steel, chrome plated. 3¹/₂" (8.8cm) high, 4¹/₈" (10cm) wide.

#792-212-045 45in/lb Torque Handle, 2G149D99 \$ 169.99

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

#827-525-800 Starrett Pin Punch, 7B6C46..................\$ 6.99 #827-525-780 ¹/₁₆" Punch, 7B6B79...... 8.99

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

SPECS: Polyethylene green. 4" (10cm) diameter, 11/8" (2.8cm) high. #080-000-492 Rifle Bench Block - Green, 8D18B99....\$ 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: 51/2" (14cm) overall. 13/4" (4.4cm) long shank. 1" (2.5cm) diameter x 33/4" (9.5cm) long handle.

#080-088-004 Magnetic LE Handle, 8K12H38 \$ 14.99

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-



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 11/4" (3.2cm) long.

#080-185-100	³ / ₃₂ " Allen Bit, 8K3K99\$	3.99
#080-240-540	#240-5 Slotted Bit, 8K3G21	3.99
#080-435-015	T15 Torx Bit, 8K00KGR	3.99

(11) <u>SQUARE-TO-HEX CONVERTER</u> - Converts square shank to hex to allow use of Magna-Tip bits in torque wrench (included

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

#084-095-230 1/4" Square to 1/4" Hex Converter, 8K17J99.....\$ 21.99

(12) <u>REMINGTON EXTRACTOR RIVET ANVIL</u> - Simplifies extractor rivet peening. Fits inside bolt face recess while you peen the extractor rivet

SPECS: Blued, tool steel, hardened to Rc 60-63. 2¹/₄" (5.7cm) high x 1³/₄" (4.4cm) wide x 1/2" (12.7mm) thick.

#080-740-000 Extractor Rivet Anvil, 8K45Q39 \$ 50.49

KLEINENDORST REMINGTON BOLT DISASSEMBLY TOOL - Removes the striker assembly in seconds for fast easy disassembly. SPECS: 2¹/₂" (6.3cm) long body. .690" (17.5mm) I.D. 1" O.D. 3¹/₂ oz. (99 g). Aluminum body, steel hook and pivot arms. Fits Rem. 7 ISS, 700, 700 ISS, 40X, 600, 660, 721/722

#488-001-000 Remington Bolt Disassembly Tool,

MYLON/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. 11¹/₂" (29.2cm) hickory handle. Weighs approximately 6 oz. (170.1g).

#818-600-100 🔘 1" Nylon/Brass Hammer Combo,

(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).

#084-280-001 #1 Roll-Up Gun Mat, 8K13G76 \$ 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.

order on the web

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BROWNELLS ACTION WRENCH SYSTEM

Eliminates Torque Damage When Installing/Removing Barrels



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

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 - 123/4" (31.1cm) long, 1" (24.5mm) diameter. Interchangeable Head - 4½" (11.4cm) wide, 1½4" (31.1cm) thick. Complete Wrench - Includes Base/Handle and the required Head(s) for the model listed; ½"-20 2" and 3" long bolts; ¾" 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.

#080-800-002	Comp A-Bolt Wren	ch, 8K134N99	\$ 154.99
#080-801-002	A-Bolt Heads, only,	8K59N99	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.

#080-800-017	Comp. 1917 Wrench, 8K109G99	\$ 124.99
#080-801-017	1917 Head, only, <i>8K33F99</i>	39.99

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

#080-800-098	Comp LR Mauser Wrench,
	8K104I99\$ 119.99
#080-801-098	LRM Head, only, <i>8K31D99</i> 34.99

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

#080-800-095	Complete SR Mauser Wrench, 8K109Q99	\$ 124.99
#080-801-095	SRM Head, only, <i>8K33A99</i>	39.99
	- One-piece head provides complete sir. Prevents twisting or crushing receiver.	
#080-800-005	Complete Mini-Mauser Wrench,	\$ 124 QQ

<u>UNIVERSAL</u> - 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.

#080-801-005 Mini-Mauser Head, only, 8K33F99 **39.99**

#080-800-001	Comp Uni. Wrench,	8K109E99	 \$ 124.99
#080-801-001	Universal Head, only	, 8K33I99	 39.99

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.

#080-800-788	Complete Remington 788 Wrench, 8K134A99	\$ 154.99
#080-801-788	Remington 788 Heads, only, 8K61P99	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 botts. Fits all Remington actions with receiver diameter of 1.355°. Double-angle design accepts factory lug or Tubb and Shilen tapered design.

#080-800-700	Complete Remington 700 Wrench, 8K139Q99\$1	L59.99
#080-801-700	Remington 700 Heads, only, 8K63Q99	74.99

<u>SAVAGE 110</u> - 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.

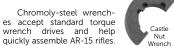
#080-800-110	Complete Round Savage 110 Wrench, 8K110I34	\$ 124.99
#080-801-110	Round Savage 110 Heads, only, 8K61P06	69.99
#080-800-109	Complete Square Savage 110 Wrench, 8K120E64	139.99
#080-801-109	Square Savage 110 Heads, only, 8K59E69	69.99

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.

#080-800-070	Complete Win. 70 Wrench,	
	8K104F99	\$ 124.99
#080-801-070	Winchester 70 Head, only, 8K33M99	39.99

— SPIKES TACTICAL AR-15/M16

WRENCHES
Wrenches Help
Assemble AR-15s





Wrenches feature black phosphate finish for resistance to wear and corrosion, and Spikes Tactical logo. Castle Nut Wrench accepts ¹/s^{*} 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.

#100-014-394	Castle Nut Wrench, 3B44P99	\$ 47.79
#100-014-395	USGI Barrel Nut Wrench, 3B45L15	47.95

D.S. ARMS FN-FAL ACCESSORY TOOLS



Original FAL Tools For Service & Repair

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

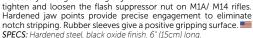
SPECS: Steel, parkerized. Front sight tool fits all sights except Israeli.

#274-100-640 FAL Front Sight Tool, 4G24L29\$	28.99
#274-100-641 FAL Gas Wrench, 4G15D69	20.99
#274-100-632 FAL Buttstock Wrench, 4G15D62	20.99

BROWNELLS M14/M1A CASTLE NUT PLIERS

Hardened, Steel Head Eliminates Flex, Prevents Stripping

Thick, steel handles provide the necessary strength and rigidity to



#080-000-185 M14/M1A Castle Nut Pliers, 8K13B45 ... \$ 14.99

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®

SPECS: Aluminum base, hardcoat anodized, black. Hardened tool steel screw shank and bushings, black oxide finish. Body – 51/* (13.34cm) long, 1* (2.54cm) wide, 1¹/₁₆* (3.02cm) high. Shank – 3¹/₂* (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.

Mark II rifles. Built-in storage slot holds the unused bushing on the

tool body, so it's always there when you need it.

#080-000-409 Firing Pin Removal Tool, 8K62J99..... \$ 69.99

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.

#093-000-009 Bolt Roller Greaser, 3K7J99...... \$ 8.36

FULTON ARMORY M1 GARAND GAS CYLINDER WRENCH

No-Mar Field Disassembly For Cleaning & Maintenance



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

SPEĆS: Aluminum, anodized, blue. 51/4" (14.6cm) long, 11/4" (3.8cm) wide, 1/4" (6.3mm) thick.

#100-000-792 M1 Garand Gas Cylinder Wrench, 3K13J39.....\$16.99

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, 1¹/_z" (3.8cm) wide, ¹/_z" (6.3mm) thick.

#100-005-519 Gas Cylinder Wrench, 6A22J09 \$ 25.99

BROWNELLS M1/M1A/M14 HANDGUARD CLIP PLIERS

Remove Clip Quickly & Easily Without Damaging Gun





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. \$\$PECS: Machined aluminum, black hardcoat anodized finish. Approx. 7"

SPECS: Machined aluminum, black hardcoat anodized finish. Approx. (18cm) long.

#080-000-361 Handguard Clip Pliers, 8K40L16.......\$ **43.25**

GUARANTEED.FOREVER.®
SINCE 1939

NEW

FIX-IT STICKS REMINGTON 700 BOLT OPENER TOOL

Easy, Fast, Non-Damaging Way To Remove the Firing Pin Assembly from the Bolt Body

This simple tool fits on any 1/4" hex driver (like a Magna-Tip®) to access your Remington 700's firing pin quickly and easily at your workbench, in the field, or wherever you need to clean or replace that firing pin. Levers up the firing pin head with a simple "bottle opener" action so you can essentially unscrew the rest of the bolt assembly while you hold the firing pin head



secure with the Fix-It tool. A molded polymer bushing protects the bolt plug from damage. This hardened steel tool will work with all Remington 700 bolts, as well as bolts from other manufacturers with similar designs.

#100-044-103 Rem 700 Bolt Opening Tool, 2F17H25 . . \$ 18.99

ANARCHY OUTDOORS RUGER® AMERICAN & PRECISION RIFLE FIRING PIN REMOVAL TOOL



Pop That Pin Out Pronto for Fast, Thorough Cleaning & Maintenance

Ruger's American and Precision Rifle bolt actions have become extremely popular, so the

chances of needing to perform repairs and maintenance on them are more and more likely. This tool is specifically designed to make removing the firing pin from the bolt easy and fast for maintenance or cleaning. Sturdy all-aluminum construction with a tough anodized finish means this tool can't possible scratch the bolt. If you own either (or both) of these rifles and put a lot of rounds downrange, Anarchy's simple tool is a must-have accessory for your workbench, range bag, or cleaning kit. **Note**: This tool is compatible with both short- and long-action Ruger Precision Rifles.

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: 2¹/₂* (6.3cm) long body. 690* (17.5mm) I.D. 1* O.D. 3¹/₂ oz. (99 g). Aluminum body, steel hook and pivot arms. Fits Rem. 7 ISS, 700, 700 ISS, 40X, 600, 660, 721/722.

#488-001-000 Remington Bolt Disassembly Tool,

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. 4³/₄" (12cm) long, 1"(2.5cm) wide. Fits both M1 Garand and M14 bolts.

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'/s' (14cm) long. 3'/s' (19.0mm) wide. 13'/s' (4.4cm) high. Weighs 10 oz. (284 g). Aluminum base, steel screw.

#488-002-000 Rem. Firing Pin Tool. 8H42E51 \$ 45.75

BROWNELLSSMLE 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.

#080-741-000 SMLE Firing Pin Tool, 8K30/99......\$ **39.99**

BROWNELLS



Simplifies Extractor Rivet Peening

Fits inside face bolt recess to support back side of the extractor rivet while you peen the other end to lock a new extractor in place.

SPECS: Blued, tool steel, hardened to Rc 60-63. $2^{1}/*$ (5.7cm) $\times 1^{2}/*$ (4.4cm) $\times 1/*$ (1.7mm) thick.

#080-740-000 Extractor Rivet Anvil, 8K45Q39 \$ 50.49

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). Mainspring 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 - 31/* (8.2cm) long x 11/* (3.2cm) wide. Ejector Compressor Tool - Aluminum, anodized, blue. Steel screw, polymer bushings, matte black. Body - 11/si* (1.7cm) long x 2* (5.1cm) wide. Mainspring Changing Tool - Aluminum, anodized, green. Steel lead screw. Polymer knob, matte black. Body - 81/* (21cm) long x 3/* (1.9cm) wide. Fits Rem. 700. Stolle Panda, and other Reminaton style bolts.

#749-004-116	Firing Pin Removal Tool, 8H21N54	\$ 32.99
#749-003-541	Ejector Compressor Tool , 8H21C39	35.99
#749-004-114	Mainspring Changing Tool, 8H20D33	32.99
#749-002-695	Sinclair Bench Block, 8K18D12	22.99
#749-011-311	Bolt Maintenance Kit, 8K00DWQ	139.99
#749-011-310	Remington Bolt Maintenance Storage	
	Case, 5F33N31	38.99

MOUNTAIN TACTICAL TIKKA T3

BOLT DISASSEMBLY TOOL

stubborn sucker to remove. Mountain Tactical's little tool will save

you hours of frustration when installing bolt shrouds and handles

- especially if you accidentally un-spring the firing pin mechanism

in the bolt. Just slide the tool over the bolt shroud, twist, and voila -

the shroud pops right off. Easily reload the firing pin spring, change

out a bolt handle, or quickly dismantle your bolt for cleaning with

#100-061-465 Tikka Bolt Diassembly Tool, 5H11F13. \$ 13.00

you leverage that'll make you feel like him!

confidence. Not everyone is built like Hercules, but this tool gives

Takes the Pain & "Blue" Language

Out of Disassembling a Tiikka Bolt

to love them. What they don't love is

disassembling the bolt because the

bolt shroud is one son of a.... really

Folks who shoot Tikka rifles tend

O

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"1/s" (9.7cm) long with shank fully screwed in, 2"1/s" (5.7cm) wide, 1"1/s" (4.5cm) high. Fits AR-15, AR-style. 308 rifles, Remington 700, Winchester 70, Savage, and Sako rifles.

#080-000-420 Ejector Removal Tool, 8K55D99...... \$ 63.99

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.

0.0.000.000.00		
#513-000-008	Tooling Block, only, 3A110C00\$	110.00
#513-000-009	.223 Facing Burr, 3A65A00	65.00
#513-000-011	.308 Facing Burr, 3A65M00	65.00
#513-000-012	Magnum Facing Burr. 3A65100	65.00

BROWNELLSRECEIVER 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, 11/2" di-



ameter 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 factoryoriginal, Remington 700 receivers. 1° facing pilot fits AR-15 upper receivers. 5PECS: Hardened steel, polished finish. Cutter - 90°, 2° (5.1cm) long × 1½′ (3.8cm) O.D. Pilots - 2° long x .700° (17.8mm) or 1° (25.4mm) O.D.

#080-000-194	Receiver Facing Cutter, 8K62C64	70.99
#080-000-195	1" Receiver Facing Pilot, 8K23E99	28.99
#080-000-197	.700" Receiver Facing Pilot, 8K24F99	28.99
#080-589-000	Facing & Chamfering Tool Handle, only,	
	¹/₄"-20 thread, 8K12J99	14.99

order on the web

brownells.com

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,

1½/16" +.010"-16 tap, .010" over Recoil Lug Reamer, (2) bushings. Standard Kit - Includes Standard Receiver Reamer, 11/16"-16 tap, (2) bushings doesn't include Recoil Lug Reamer.

#513-000-003	.010" Over Receiver Accurizing Kit,	
	3A550M52\$	550.52
#513-000-050	Std Rec. Accurizing Kit, 3A500F51	500.51

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

SPECS: High speed steel. 10¹/₂" (26.6cm) long. .010" Over - 1.012" diameter: Standard - 1" diameter

#513-000-004	.010" Over Piloted Receiver Reamer, 3A175/35	. \$ 175.35
#513-000-051	Standard Piloted Receiver Reamer, 3A175K35	

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 10¹/₂" (26.6cm) long. Includes (2) bushings, .701"-.705" diameter. .010" Over - 11/16" + .010"-16 thread pitch. Standard - 11/16"-16 thread pitch.

#513-005-700	.010" Over Remington Rcvr/Tap Arbor, 3A322M85\$ 394.99
	Standard Remington Receiver Tap, 3A322F78394.99

RECEIVER RING FACING CUTTER

Three, carbide cutters give even cutting pressure to square up the face of your receiver. Tapered handles let you



#F47 000 0F7	Rec. Ring Facing Tool	74440000	* 440 00
#513-000-053	Rec. Ring Facing Tool.	3A110C00	\$ 110.00

.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 reauired

#513-000-070	.715" Rem. Bolt-Way Reamer,	
	3A275F35 \$ 275.	35

BOLT BODY SHIM SET - Precisionformed 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.

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.

#080-792-100	Bolt Ejector Tool Set,	8K30I09	\$ 35.99
#080-792-002	Bolt Ejector Tool, only	y, 8K17P60	20.99

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: 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: Encircle bolt with pliers and squeeze 5 extractor collar closed firmly. Slip extractor onto bolt collar, remove pliers.



Fig. 2

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.

#080-01/-000	Bolt Extractor Pliers,	8K19P99	\$ 24.9	9

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.

#080-000-507 Bolt Body Shim Set. 8K17Q59 \$ 21.99

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. 17/8" (4.8cm) long x 1/2" (1.3cm) diameter.

#513-000-090	Remington Bolt False Center,	
	3A50B00	\$ 50.00

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. 117/8" (24.4cm) long. .915" (23.2mm) wide.

#080-055-000 Receiver Way Polisher, 8K44H99 \$ 53.99

BROWNELLS 10/22° RECEIVER DRILLING JIG

Accurately Locates A Cleaning 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.

#080-917-000 10/22 Receiver Drill Jig, 8K44P45 \$ 49.99

BROWNELLS RECEIVER CONTOURING FIXTURE



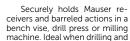
Lets the receiver rotate around its own axis for precise removal of charger guides, rear bridges, or pits and dings.

SPECS: Steel, blued 13" (33cm) Iona, 3" (7.6cm) wide, Requires Receiver Facing Mandrel

#080-914-000 Receiver Conturna Fixture.

BROWNELLS MAUSER RECEIVER HOLDING FIXTURE

Provides A Stable Platform For Working On Mauser Receivers



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

#080-919-000 Mauser Receiver Fixture, 8K75G99 \$ 89.99

BROWNFLLS 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, 123/8" (31,34cm) long, 11/2 lb, (680 a).

STOCK #	FITS	PRICE
#080-098-096	Small Ring Mauser	8K76J18 \$ 93.99
#080-098-001	Large Ring Mauser	8K71H99 \$ 84.99
#080-098-003	'03 Springfield	6K64A90 \$ 74.99
#080-098-700	Remington 700	8K69A99 \$ 86.99
#080-098-070	Win. Model 70	6K99N99 \$ 125.99

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: 3³/₄" (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/M1 Garand 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 S	ET STK# SLEEVE	FITS
#080-097-70	1 #080-097-700	Remington 700
#080-097-17	0 #080-097-070	Win. 70/Ruger M77
#080-097-10	1 #080-097-014	M14/M1A/M1 Garand
#080-097-19	8 #080-097-098	Mauser Large
#080-097-19	6 #080-097-096	Mauser Small
#080-097-00	4 #080-097-001	Savage Small
#080-097-00	5 #080-097-002	Savage Large
— Advise # —	One Gun Bolt Lap	Set, 8K46C79 \$ 52.99
Advise # —	Individual Thread S	Sleeve, 8K21L54 25.99
#080-097-101	M14/M1A/M1 Gara	
		\$ 64.99
#080-097-113		14/M1A Plunger,

GUARANTEED.FOREVER.® **SINCE 1939**

#080-097-014 Garand Sleeve & Handle, 8K36M29.....

#080-097-100 Bolt Tool Body, only, 8K32P48 **36.99**

#080-097-000 Bolt Lapping Tool Kit, 8K230C54...... 251.99

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 bolt steels. A must if you don't have a tool-post grinder.

SPECS: 2¹/₈" (5.4cm) long. ¹/₄" (6.3mm) or ⁵/₁₆" (7.9mm) square.

	1/4" Bolt Facing Bit,	3B25D64	\$ 29.99
#080-659-375	5/16" Bolt Facing Bit,	3B21J91	24.99

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.

-001-158	Barrel Thread Restoration Kit,
	8K47P89

JME INNOVATIONS SPLIT RETHREADING DIE

Dies Help Make Thread Repair Easy

Steel rethreading dies help clean up crossthreaded 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 flexibilty for thread repair. Hex shape makes it possible to use with adjustable wrench. Available in 1/2-28 or 5/8-24 threads ==

SPECS: A2 tool steel 1" (2.5cm) O.D. 1/2-28 or 5/8-24 threads

	1/2-28 Split Rethreading Die,	
#100-015-334	5/8-24 Split Rethreading Die,	6A47H06 62.99

BROWNELLS MAUSER 98

CROSSBOLT WRENCH

M-98 stock cross bolts.

Fits M98, 2-Pin, Crossbolt Nut

relieved center for fast removal of

Correct pin spacing, O.D. and

\$ 26.99

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, blued. $4^{1}/4^{\circ}$ (10.8cm) to $5^{1}/2^{\circ}$ (14cm) long depending on the

BROWNELLS BOLT HEAT SINKS FOR

BOLT WELDING & FORGING

model. **#1** - 1903 & 03A3 Springfields, **#3** - 98 Mauser, **#4** - Remington 700. #080-638-001 #1 Bolt Heat Sink, 8K20D99 \$ 24.99 #080-638-003 #3 Bolt Heat Sink, 8K20D99 24.99

#080-638-004 #4 Bolt Heat Sink, 8K20I99...... 24.99 #080-638-000 Bolt Heat Sink Set, 8K67A22 100.99

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, 11/4" (3.2cm) wide, 11/2" (3.8cm) high #080-000-505 Sako Extractor Jig, 8K42B61............ \$ 46.99

BROWNELLS

BARREL/RECEIVER TAPS & DIES

Clean and chase dinged or imperfect threads, either on the bar-

rel or in the receiver. Real lifesavers for any rebarreling job, especially

good when installing any of our "no-lathe", pre-threaded barrels.

SPECS: High speed steel. Dies are 2° diameter except Savage which is 2.5° diameter .1.00°-16 tpi fits FN-FAL: 1.10°-12 tpi fits Large Ring Mauser:

11/16"-16 tpi fits Remington 700 and XP-100; 1.055"-20 tpi fits Savage

#080-598-982 FN-FAL Tap, 8K81C72 \$89.99

#080-598-111 Large Ring Mauser Tap, 2K114N11 129.99

#080-598-110 Large Ring Mauser Die, 2K157C43..... **169.99** #080-598-116 Remington 700 Tap, 2K77F16 86.99

#080-598-117 Remington 700 Die, 2K118E21 128.99

Thanks to Walt Warren for his suggestion.

Clean Up Barrel & Receiver

Threads For Fast, Easy

Installation

LA BOUNTY **BOLT FIXTURE & ACTION TRUING SLEEVE**



Receiver Mandrels

of your Sako extractor.

tor slot width

STOCK#

#317-000-005

#317-000-006

#317-000-007

#080-

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. 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. Instructions included.

SPECS: Bolt Fixture - Steel, blued 7" (17cm) long, 11/2" (4cm) diameter shank, includes clamps and screws. 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.

#521-100-000	Bolt Fixture,	1B181I25		\$ 193.33
#521-103-000	Set of 2 Rece	eiver Mandrels,	1B49K92	66.99

SAKO EXTRACTOR MILLING CUTTERS

Helps You Install A Durable Sako Extractor

On Your Remington Bolt

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

SPECS: High-cobalt carbide. Order cutter that matches your Sako extrac-

SIZE

5/32"

11/64"

15/64"

PRICE 7A24D25 **\$ 27.99**

7A27J95 \$ 32.99

7A38C29 \$ 41.99

SLOT WIDTH

.152"

.172"

.231"

Carbide, center-cutting, four-flute mills precisely cut the

HORNADY OVERALL LENGTH GAUGE

8K23P99

SPECS: Tool steel. 4¹/₄" (10.8cm) long x ⁹/₁₆" (14.3mm) diameter.

#080-098-100 Mauser 98 Cross Bolt Wrench.



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.

Straight Overall Length Gauge, 9D00NCD	\$ 33.99
Curved Overall Length Ga, 9D00NSN	39.99

MODIFIED CASES

STOCK #	CARTRIDGE	PRICE
#749-001-396	223 Rem	9D00HHQ \$ 6.99
#829-200-225	22-250 Rem	9D4E95 \$ 5.29
#829-200-243	243 Win	9D4C52 \$ 5.29
#829-000-024	260 Rem	9D00CRM \$ 7.99
#829-200-270 🔘	270 Win	9D4C52 \$ 5.29
#829-200-708	7mm-08 Rem	9D7K70 \$ 8.99
#829-200-284	7mm Rem Mag	9D5l21 \$ 5.99
#829-200-308 😤	308 Win	9D5N21 \$ 7.99
#829-200-306	30-06 Springfield	9D5K21 \$ 7.99
#829-200-300	300 Win Mag	9D8Q26 \$ 9.99

BROWNELLS CENTERFIRE/RIMFIRE FIRING PIN PROTRUSION GAUGE



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: Un-

lock 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.

SPECS: 1/2" (12.7mm) dia., .90" (23mm) lg. Hardened plunger.

#080-782-000 Firing Pin Gauge, 8K36M57...... \$ 39.99

CARTRIDGE	PRICE	
223 Rem	9D00HHQ \$ 6	.99
22-250 Rem	9D4E95 \$ 5	.29
243 Win	9D4C52 \$ 5	.29
260 Rem	9D00CRM \$7	.99
270 Win	9D4C52 \$ 5	.29
7mm-08 Rem	9D7K70 \$8	.99
7mm Rem Mag	9D5l21 \$ 5	.99
308 Win	9D5N21 \$7	.99
30-06 Springfield	9D5K21 \$7	.99
300 Win Mag	9D8Q26 \$ 9	.99
	223 Rem 22-250 Rem 243 Win 260 Rem 270 Win 7mm-08 Rem 7mm Rem Mag 308 Win 30-06 Springfield	223 Rem 9D00HHQ \$6 22-250 Rem 9D4E95 \$5 243 Win 9D4C52 \$5 260 Rem 9D00CRM \$7 270 Win 9D4C52 \$5 7mm-08 Rem 9D7K70 \$8 7mm Rem Mag 9D5I21 \$5 308 Win 9D5N21 \$7 30-06 Springfield 9D5K21 \$7

Instant Read-Out

W.H. MERCHANT THROAT EROSION GAUGE

.30-06 M1 Garand **Checks Throat Wear** Presents a quick and accurate indication of 223 Cal barrel/throat wear. Use every 1,000 rounds to obtain a comparative reading of throat AR-308 erosion. Provides match shooters and varmint hunters an easy, convenient method to determine remaining barrel life. Made of hardened stainless steel. Comes with complete instructions. .223 also fits .222 and .22-250. NOT for use with 5.56 NATO or .223 Wylde chambers, as it will give erroneous readings.

#565-017-223	.223 Cal. Throat Gauge, 5F36B07\$	42.99
w 565-000-012	AR-308 (.308 Cal.) Throat Gauge,	
	5F35D99	42.99
#565-000-009	.30-06 M1 Garand Throat Gauge,	
	5F36E42	46.99

order on the web

brownells.com

Orders: 800-741-0015

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 rela-

tionshipand 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 23/8" (8.6cm) long x 5/8" (15.9mm) wide x 11/4" (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.

#080-016-000 Bolt Welding Jig, 8K47P99..... \$ 47.99

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: Sold by weight. Alloy. Infinitely reusable.

#080-027-100	1 lb. Cerrosafe Alloy,	8K26M29\$	29.99
#080-027-050	1/2 lb Cerrosafe Alloy,	8K13H54	14.99

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 handge	uns.	
#080-001-176	17/22 Rifle Hone, 400 Grit, 8K38L22 \$	41.16
#080-001-177	17/22 Rifle Hone, 800 Grit, <i>8K38P22</i>	41.16
#080-000-717	.223/5.56 Rifle Hone, 400 Grit,	
	8K38I23	44.60
#080-001-188	AR-15 Rifle Hone, 400 Grit, <i>8K38D32</i>	44.70
#080-001-189	AR-15 Rifle Hone, 800 Grit, <i>8K37N76</i>	40.66
#080-001-184	243 Rifle Hone, 400 Grit, <i>8K37E50</i>	41.67
#080-001-185	243 Rifle Hone, 800 Grit, <i>8K46A39</i>	49.96
#080-001-186	7.62x39 Rifle Hone, 400 Grit, <i>8K40E88</i>	44.02
#080-001-187	7.62x39 Rifle Hone, 800 Grit, <i>8K43G29</i> .	46.62
#080-001-178	308 Rifle Hone, 400 Grit, <i>8K38M83</i>	41.82
#080-001-179	308 Rifle Hone, 800 Grit, <i>8K38P83</i>	41.82
#080-001-180	30-06 Rifle Hone, 400 Grit, <i>8K31G37</i>	34.85
#080-001-181	30-06 Rifle Hone, 800 Grit, <i>8K46B39</i>	49.96
#080-608-338	38/.357 Rifle Hone, 800 Grit, <i>8K26C51</i>	28.76
#080-001-190	38/.357 Rifle Hone, 400 Grit, <i>8K32H51</i>	37.92
#080-608-344	.44 Rifle Hone, 800 Grit, 1B28F30	30.48
#080-608-345	.45 Rifle Hone, 800 Grit, 1B25P91	30.22
#080-001-182	9mm Pistol Hone, 400 Grit, 8K32D11	34.58
	9mm Pistol Hone, 800 Grit. 8K32G11	34.58

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.)

#080-609-008	¹ / ₂ Pint Flex Hone Oil, 1B12D04	. \$ 13.44
#080-609-000 🗞	Quart Flex Hone Oil, 1B19P29	21.99

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



STOCK #	CALIBER	WEIGHT(GRAINS)	PRIC	E
#840-000-001	.224 rifle	80	4H00HHL	\$ 32.99
#840-000-002	.243 rifle	107	4H00FNB	\$ 33.99
#840-000-004	.264 rifle	142	4H00BBN	\$ 33.99
#840-000-005	.270 rifle	135	4H00LNH	\$ 28.99
#840-000-006	.284 rifle	130	4H00GEE	\$ 33.99
#840-000-007	.308 rifle	190	4H00MGC	\$ 33.99

BARSKA AK-47/AKM/SKS 0 FRONT SIGHT ADJUST-**MENT 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 25/8" (6.7cm) long 1/2" (1.3cm) wide 11/2" (3.8cm) high 11/6" (1.7cm) throat 4.7 oz (1.33g) wt

AK-47/SKS Front Sight Adjustment Tool,
8F12F49\$ 14.49

M1/M14/M1A TOOLS & ACCESSORIES

M1/M1A RECEIVER/BARREL TIMING GAUGES - Machined alumi-

num 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



SPECS: Machined aluminum, silver, matte finish. 6" (15cm) long, 1" (2.5cm) square Includes illustrated instructions

	Tii C		ć 70.00
#093-200-010	riming Gauges,	3K/2G92	\$ 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.

#812-001-001 M1 Garand Timing Block, 2A37G22..... \$ 44.99

M14/M1A STOCK LINER NUT DRIVER - Provides nonslip 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.

#093-223-040 Stock Liner Nut Driver, 3K13F99...... \$ 13.99

FORSTER UNIVERSAL SIGHT MOUNTING FIXTURE



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, predeter-mined 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

BUSHING

#7/64

STOCK #	BUSHING	STOCK #	BUSHIN
BUSHII	NG SET	DRILL B	USHING
#319-400-132	10-32	#319-400-921	#21
#319-400-356	3-56	#319-400-928	#28
#319-400-648	6-48	#319-400-930	#30
#319-400-840	8-40	#319-400-931	#31
		#319-400-964	#7/64

Advise # —	Bushing Set, each, 9A23D57	\$ 26.99
— Advise # —	Drill Bushing, each, 9A15K82	18.45
#319-400-000	Forster Sight Fixture with 6-48	
	bushing, 9A387D86\$	459.99
#319-400-936	Drill Bushing #36, 9A8B02	10.99
#319-400-945	Drill Bushing #45, 9A7A28	9.99
#319-400-700	Round Pad, pair, 9A2Q99	3.99
#319-400-900	Forster Locating Pin, 9A10A31	13.99
#319-400-901	Forster C-Clamp, 9A11E25	16.99
#319-400-902	C-Clamp Set Screw, 9A2C99	3.99

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



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

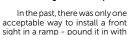
Hardened steel tool enables fast, easy, precise windage and elevation adjustment on a wide variety of Kalashnikov-type rifles. The full-circle clamp is

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 - 13/4" (4.4cm)

O.D., 3/4 " (cm) thick, with 41/2" (11.4cm) long handle. Gunsmith - 21/4" (5.7cm) O.D., 1" (2.5cm) thick, with 61/2" (16.5cm) long handle. #100-005-933 Standard AK Sight Tool, 4D28D66..... \$ 30.99

WILLIAMS FRONT SIGHT PUSHER

Easiest Way To Install A Front Sight In A Ramp





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 $4^{3}/8^{\circ}$ (11.1cm) long x 1" (2.5cm) wide x $1^{3}/8^{\circ}$ (3.5cm) high. Screw is steel.

#962-050-000 Front Sight Pusher, 2F55N43...... \$ 64.99

GUARANTEED.FOREVER.® **SINCE 1939**

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.

#080-739-000 Ramp Soldering Jig, 8K78G34 \$ 89.99

BROWNELLS STUCK CHOKE REMOVAL TOOL

No-Nonsense Tool Removes Frozen Chokes

Originally designed for metal workers and mechanics to remove

stuck bolts, these heavy-duty extractors bite into the metal for extra traction so you can apply the force needed to remove a choke that refuses to budge with ordinary tools. Available for 12 and 20 gauge. Complete instructions included. Caution: muzzle damage can result if used incorrectly.

SPECS: Tool steel, black oxide finish. 12 Ga. - 4-7/8" length, gripping surface tapers from 9/16" to 27/32". 20 Ga. - 41/2" length, gripping surface tapers from 1/2" to 9/16".

#587-036-968	Stuck Choke Removal Tool, 12 ga., 8K10G66
#587-036-967	Stuck Choke Removal Tool, 20 ga., 8.99



BROWNELLS SHOTGUN SIGHT INSTALLER

No-Mar Installation With A Minimum Of Breakage

The "clean" installation of aluminum or brass shotgun sights has always been one of the bug-aboos of the gunsmithing profession. The Shotgun Sight Installer exactly fills the need for a truly precision instrument with which to install a shotgun bead without a mark - satisfying even the most particular gun man. The holding jaws are internally ground and lapped to give maximum holding surface on the and lapped to give maximum moraling arrived to the sight without marring or damaging the leg Alum. Sight Installer metal. Priced at a level any gunsmith can afford, yet will give a lifetime of service.



SPECS: Available in aluminum or steel. Set contains one of each size. Three sizes: La. .175": Med. .130": or Sm. .067".

#080-790-175	Lg Alum. Sight Installer, 8K8N99 \$ 9.99
#080-790-130	Med Alum Sight Installer, 8K9F20 9.99
#080-790-067	Sml Alum Sight Installer, 8K9G22 9.99
#080-791-175	Lg Steel Sight Installer, 8K10C99 10.99
#080-791-130	Med. Steel Sight Installer, 8K7D31 7.99
#080-791-067	Small Steel Sight Installer, 8K7E32 7.99
#080-790-000	Set Aluminum Installers, 8K22Q33 24.99
#080-791-000	Set Steel Installers, 8KOODVQ 20.99



BROWNELLS TOOLS FOR REMINGTON 870, 1100 & 11-87

Factory-Type Tools For Armorers & Gunsmiths; The Right Tools For 870 Work - Add-Ons Available For The 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 Forever.

satisfaction is due	iraniceu. i orever. ==	
#080-870-010	Brownells 870 Service Kit, Complete	
	With Tool Box, 8K319M47	344.99
#080-870-001	Brownells 870 Service Kit, Tools only	
_	(no box), 8K305C02	332.75

870 FOREND WRENCH - Pilot keeps "teeth" square to the forend nut, virtually eliminating damage to wrench, forend or forend nut. 12 gauge only.

#080-870-202 870 Forend Wrench,	8K26P9U\$ 29.99
2 870 DETENT STAKING PUNCH retainer without forcing metal into the	- Stakes the magazine cape I.D. of the magazine ring.

#080-870-205 870 Detent Punch, 8K16P79 \$	20.99
(3) 870/1100 MAGAZINE SPRING RETAINER TOOL - G	uides
springs into position without damage	

#080-187-203 Spring Retainer Tool, 8K35H99	\$ 43.99
4 870/1100 PIN PUSHER - Fitted punch removes tri	gger group
pins with no chance of slipping off and gouging the fra	me.
#090-970-110 () Din Ducher 8K15D00	¢ 10 00

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

#080-612-000	Rivet Stake Tool Set,	8K24E99.	\$ 29.99

(6)8(7) 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 of use. Includes clamp to hold ejector spring and housing secure when restaking.

#080-870-203	870/1100 Shell Latch Staker,
	8K62D17

(8) <u>STARRETT PIN PUNCH</u> - Correct size for removing the Firing	
(8) <u>STARRETT PIN PUNCH</u> - Correct size for removing the Firing Pin Retaining Pin from the bolt assembly.	
#827-525-800 Starrett Pin Punch, 7B6C46	

(9) 870/1100 BUTTSTOCK BOLT WRENCH - Special sleeved, self-centering bit can't slip off or jam between stock and bolt head. #080-870-200 870/1100 Buttstock Wrch, 8K80B96. \$101.99

(10) 870/1100 SCREWDRIVER SET - Our special Law Enforcement, MAGNA® Clip-Tip handle with 5 bits specific to 870 work.

#080-088-870 870/1100 Screwdriver, 8K15N07 \$ 19.99 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 draw-

ing and full parts list. Available as a download from Brownells.com. 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."



#818-600-100 (1" Nylon/i	
8A19E49	

(13) ARMORER'S BRUSH - Perfect	t shape and stiffness for remov-
ing metal filings, abrasive stone du	st, etc., from recesses.
#821-135-210 Armorer's Brush, &	3K10J86 \$ 12.99

(14)	MF-46 MEDIUM INDIA STONE	- Removes	burrs and	rough-
noc	for smoother functioning			-

ness for smoot	her functioning.		
#657-246-146	MF-46 India Stone,	7E10K35 \$ 1	.0.99

(15) ASSEMBLY/DISASSEMBLY MAT - Solvent/oil-resistant, no) -
slip, no-scratch work surface. Rolls up for easy carrying.	

#358-128-316 Assy/Disassy Mat, 8E25M25..... \$ 28.99

GUN/PARTS CLEANING BRUSH - Solvent-proof polypropylene brush for hard scrubbing. Narrow row for grooves and slots; toothbrush end for general scrubbing.

#676-450-001	Gun/Parts Bru	ush, each,	8K3I01	\$ 3.99

(17) 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.

#080-870-204	Carrier Pivot Slave Pin,	8K10PQQ	\$ 12 99
#000-0/0-204	Carrier Fivot Stave Fill,	ON10F33	9 IL.33

(18) 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.

#080-870-303 870 Armorers Kit Box, 8K14I70 \$ 14.70

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. SPECS: 63/4" (17.1cm) long. 3/8" (9.5mm) wide. Steel.

#080-187-202 Interceptor Latch Spring Remover,

6" CHAIN NOSE PLIERS - Just the right size to reach in and squeeze the Link connecting the Action Spring Follower and Action Bar As-

BROWNELLS TACTICAL SHOTGUN FIELD MAINTENANCE PACK



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 selfguiding, 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 fullsize #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: 3/8" socket drive, T-handle, and extension with 1/2" socket, drag link, Rem 870 buttstock bolt socket, and 11/16" socket for current-production Rem 1100/11-87 action spring tube nut; nylon/brass hammer; nylon bench block; 6" chain nose pliers; 1/16" and 3/32" 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. 11¹/₂" (29.2cm) long, 8¹/₂" (21.6cm) high, 3" (7.6cm) thick.

#080-000-583 () Brownells Tactical Shotgun Maintenance Pack. 8KOOEXR......\$ 359.99

sembly together for removal.

#354-000-048 Needle Nose Pliers, ONLY, 4E28M21 \$ 32.99

.060 X 21/2" BROWNELLS REPLACEABLE TIP PIN PUNCH - Fits Carrier Latch Pin to push it all the way through, plus works as alignment pin for reassembly.

#080-507-560 Replac. Tip Pin Punch, 8K9F99...... \$ 10.99

1100/11-87 GAS RING BRUSH - Heavy, stainless steel, bristled brush gets fouling out of gas ring steps. Solvent-proof handle.

#084-168-000 Gas Ring Brush, 8K10N21......\$ 12.99

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