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THE GUIDE TO MODERN SMALL ARMS

Vol. 10 No. 3

GAGE REWS

THE BATTLE OF THE BRITT-FEDS

The NEW ArmaLite AkloA4 Tactical

Clyde's #2 Whipit - "The Street Cannon"

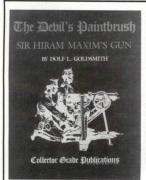
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Arvs. Water Keeping Your Machine Gun Cool

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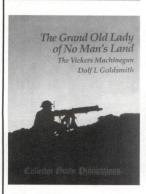


The Devil's Paintbrush-Sir Hiram Maxim's Gun by Dolf L. Goldsmith, 2nd Ed., 1993 (Expanded and Revised). 384 pages, 527 illustrations. Deluxe hardcover with color dust jacket and printed end papers. Dolf Goldsmith's classic on the world's first true Automatic Machine Gun returns in a brand new Second Edition. Over 100 pages of revised and expanded data, plus over fifty brand-new illustrations. (BKLMO1). . . \$69.95

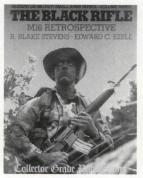
The Black Rifle-M16 Retrospective by R. Blake Stevens and Edward C. Ezell, 2nd Ed., 1992 (Enhanced). 416 pages, 441 illustrations. Deluxe hard-cover with four-color dust jacket and printed end papers. A sweeping history of the 5.56 mm M16 - the most tested, most engineered, and most controversial military rifle in the world: where it came from, what it is, and what it is not. (BKLMO4) \$59.95

U.S. Rifle M14-From John Garand to the M21 by R. Blake Stevens, 2nd Ed., 1991 (Revised). 352 pages, 246 illustrations. Deluxe hardcover with four-color dust jacket and printed end papers. The definitive study of the development, manufacture, fielding and demise of me last wood-and-metal 'lock, stock, and barrel, battle rifle ever issued to U.S. troops. Now with upgraded data on the official U.S. Army Marksmanship Training Unit (AMTU) accurizing procedures which transform the M14 into the deadly M21 Sniper rifle. (BKLMO5).....\$49.95

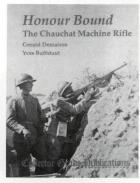




The Grands Old Lady of No Man's Land—The Vickers Machinegun by Dolf L. Goldsmith, deluxe 1st edition, 1994, 592 pages, 386 illustrations. From its adoption in 1912 through to its lamented retirement in 1961, the water-cooled, belt-fed MkI Vickers chalked up a remarkable half-century career as the mainstay of the British Army, becoming synonymous with reliability. (BKLMO2) \$79.95



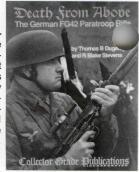
Honour Bound—The Chauchat Machine Rifle by Gerard Demaison and Yves Buffetaut Deluxe first edition, 1995, 227 pages, 244 illustrations. A well-reasoned, historical classic.The most manufactured automatic weapon of WWII, outnumbering every other machine gun made, by the Allies and the Central Powers. It was the worlds first successful squad automatic-the ancestor of the modern assault rifle. (BKLMO6).....\$39.95





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Death From Above—The German FG42 Paratroop Rifle by Thomas B. Dugelby and R. Blake Stevens 1st Ed., 1990, 160 pages, 156 illustrations. Deluxe hardcover with four-color dust jacket and printed end papers. The audacious Fallschirmjagergewehr 42 (FG42): developed by the Luftwaffe without Hitler's approval and produced in seven known models, from initial prototypes (types "A" and "B") through the final pressed-steel Type "G." The FG42 was the true father of the postwar full-power assault rifle. (BKLMO7)\$39.95



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MACHINE GUN NEWS

THE GUIDE TO MODERN SMALL ARMS

Volume 10 Number 3

September 1996

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Page 20—Jim Alderman and Dan Shea discussing the attributes of the Stoner 63A for the "Battle of the Belt-Feds." Photo: Jim Bonis

On the Cover: Knight's Armament Stoner 86 LMG -- one of seven guns tested in *MGN's* "Battle of the Belt-Feds". Read about this 30-thousand-dollar prototype on page 20. Photography and Digital Imaging by Jim Bonis.

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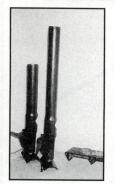
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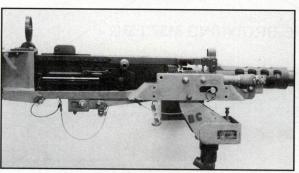
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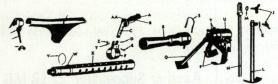
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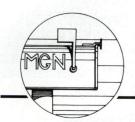
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Incoming

Attorney Jeffries' article "Institutional Perjury" in the Congressional Record

Congressman David Funderburk, a strong supporter of gun owners and Second Amendment Rights, recently placed James Jeffries' article "Institutional Perjury" into the Congressional Record. This critical article appeared on Friday, August 2, 1996, Vol. 142, No. 117, and dissects the claim of accuracy of the NFA's Registry. In the past, the Registry has been used as evidence by the ATF to prosecute gun owners, claiming that they did not have legal ownership.

Congressman Funderburk, a conservative freshman Republican from the 2nd District of North Carolina is under attack from the liberals and the AFL-CIO. His record is distorted by the AFL-CIO media blitz and his opponent is receiving massive support from the liberals and the labor unions. Congressman Funderburk has the support of the NRA. But, he needs the support of all gun owners. Send your contributions to his campaign office: Post Office Box 1289, Dunn, North Carolina 28335.

If you want a copy of James Jeffries' article, write to your Congressman and request a copy of the Congressional Record August 2, 1996, Vol. 142, No. 117.

In Memorium—Joe Pinkston

We mourn the passing of Joe Pinkston, curator of the John Dillinger museum in Nashville, Indiana. Many who came to the Creek stopped by the museum on the way back north. A number of them got a personal tour of the impressive collection by its most able curator. He was never Joseph, always Joe.

In 1962 Joe Pinkston published, with Mr. Robert Cromie, the oft quoted Dillinger, A Short and Violent Life. This classic book remains in print at this very hour. At the time of his death, Joe Pinkston was assembling a work on Dillinger that Bill Helmer characterizes as "encyclopedic." All who read or

write in early 30s crime mourn the loss of Joe Pinkston. We as writers feel that we have lost one of our elder statesmen. The "Clyde's #2 Whipit" article in this issue is dedicated to Joe Pinkston.

Rick Cartledge

Chained To Your MG

I remember something you wrote in "Raffica" a few years ago regarding characters being chained to their machine guns. Have a look at the enclosed clip-

ping regarding one of the many "brushfire" wars going on to our north. While I doubt the weapon is in working condition, the fellow on the left does seem rather attached to it.

I'll also take the opportunity to remind my fellow countrymen who write in to you to complain about the "political" bent of MGN that one of the prime reason that Oz shooters (all types) are in the current mess is because of @.&*#%'s like them who put their bloody heads in the sand. Thanks a lot, guys. Learn by our mistakes, Amerikaners.

Anyway, keep up the good work (great series on the Stoner designs!) and best of luck with your own legislation problems.

Yours, Peter L. Australia

Mini-AK Address Correction

The wrong address and phone number appeared in the Mini-AK write-up which appeared in "What's New," July 1996. Anyone interested in the Mini-AK may contact Don Austin Wagenknecth at the correct address: 12400 Blue Ridge Blvd., Grandview, MO 64030. The phone numbers are (913) 829-5477, fax (913) 829-6999 (KS) and (816) 765-2539 (MO).



Fighting for freedom...rebels attached to BRA ground forces commander Ishmael Toroama's unit, photographed in May near Koromira in southeast Bougainville. *Photo credit: "The Courier Mail," Australia.*

Wisconsin Submachine Gun Match

The Third 1996 Wisconsin Submachine Gun Match will be held on September 29, 1996, at Mt. Horeb, Wisconsin from 8:30 a.m. to 5:00 p.m. The fee is \$15.00. Preregistration and prepayment are necessary to reserve a space. For more information or to send payment contact: WICTSC, PO Box 16, Mount Horeb, WI 53572. Phone or fax (608) 798-4835. For general information E-mail to Tomrox@execpc.com.

NFA National Subgun Match

The NFA National Subgun Match will be held at the Port Malabar Rifle & Pistol Club in Port Malabar, Florida. It will be November 8, 9, and 10th. For early registration information contact NFA Secretary, Gary Bernesque, 4610 Demby Dr., Fairfax, VA 22032-1707 or call (703) 503-2069, fax (703) 503-2073.

Another Successful .22 LR MG

Dear Capt. Mendenhall:

I must take exception to the list of successful .22 cal. machine guns. I have a G-series FN FAL that was manufactured into a selective fire weapon. I have a .22 cal. conversion kit for the FAL made by H&K. In the 12 years I have

had the gun and conversion kit, I guess that I have fired about 20,000 to 25,000 rounds of .22 cal. ammo through the gun in the full-automatic mode. I cannot remember having one problem with the gun or the conversion kit in all of those rounds. Not even a dirty gun will slow it down. The conversion kit was made as a trainer for the British Army. The magazines hold only 20 rounds, just like the 7.62 x 51 mm magazines. Also, the magazines are weighted so that they simulate the weight of a full 20-rd. magazine of 7.62 x 51 mm ammo even though they are only .22 cal. The gun with the .22 conversion kit in it fires from the closed bolt, just like the full caliber one. Converting between calibers can be done in about 30 seconds. Open the takedown latch and remove the full caliber bolt, insert the subcaliber barrel, install the .22 cal. bolt and close the gun and you are ready to fire. All of the functions, safety, selector, magazine release, etc., are the same on the gun for either caliber. I must say that I have really enjoyed the conversion kit over the years. It is a great starter for a kids introduction to full automatic weapons.

Bill C.

Dear Bill:

Thank you for sharing your information with me regarding your extremely reliable FAL machine gun with the .22LR conversion kit. As Dan Shea often says "I am not an expert, just an RKI."

I was not even aware that a .22LR full-auto conversion kit even existed for the FAL. If we can get together sometime, I would very much like to photograph and test your gun for a possible MGN story.

The fact that the FAL .22LR conversion is so reliable really intrigues me. Does it have a moving "anti-bounce" weight? I have an H&K .22LR kit for my MP5. It works very well in semi auto, but it is a disappointment in full auto. It does not have an "anti-bounce" weight.

I will add your FAL/.22LR to my short list of reliable .22LR machine guns.

Best regards, Captain Monty

Send comments and suggestions to:

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Raffica

by Dan Shea

"To prohibit a citizen from wearing or carrying a war arm... is an unwarranted restriction upon the constitutional right to keep and bear arms. If cowardly and dishonorable men sometimes shoot unarmed men with army pistols or guns, the evil must be prevented by the penitentiary and gallows, and not by a general deprivation of a constitutional privilege."

-Arkansas Supreme Court 1878.

n interesting piece of information for those of you who may have L been confused by a "journalistic" piece that showed up in the June 1996 Media Bypass magazine. It was called "Rounds Sprayed, Declarations Made in Knob Creek, KY." Essentially. the author, a Mr. Lawrence W. Myers. wandered into the 'Creek during the April 1996 shoot, in search of the "Militia." It seems that on the weekend of the Knob Creek Spring Machine Gun Shoot, a group of 25 different state militias had a meeting about 5 miles away. Members of these militia groups paid their seven bucks at the gate and came in to wander around the shoot and gun show. Some photos were taken of them with machine guns, and Mr. Myers tied the militia's "Project Worst Nightmare" declaration of intent to defend American citizens against their government to the "infamous" shoot at Knob Creek. If anyone wants a copy of this, we will mail it to you. The phone number of Media Bypass is 1-800-4-bypass. It would be nice if clear-thinking, articulate people gave these folks a call to let them know what we think of their broad paintbrush and lack of journalistic responsibility. No offense to the militia groups, but Knob Creek is about us machine gun shooters....

In last month's issue of Raffica, I answered a question about the bolt hold-open lever on some of the 1919A4 parts sets that have been sold recently. My comment was about the Marine guns and some South American contract guns. While at the Hiram Maxim Shoot in Maine, I ran into Dolf Goldsmith who immediately pointed out that when HE was in the Army, they performed that

modification on the 1919A4s. I will resist the cheap shot about "My not knowing that Browning machine guns were used in the Mexican American war..." due to my deep respect for Dolf and the fact that I know he is writing a much needed book on the Browning series guns. "Raffica" eagerly awaits the book.

Questions:

HAVE A PREBAN SPRINGFIELD SAR-8 (HK-91 clone). I am planning on making it into a "pseudo G3K" by simply machining the barrel and permanently installing a DTA-MIL brake right in front of the sight tower. The overall barrel length will be just over 16" (legal semi) but the rifled section will only be 13.5".

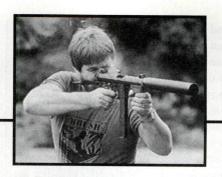
With the shorter barrel, is there enough gas pressure left to operate the action? Will the stock locking piece in the bolt head still work without modification?

Chuck

I have never seen this present a problem on the 91 series firearms. There has always been plenty of energy to cycle the action in the "Ks" that I have seen people make. A 7.62 X 51 mm is a very strong round, with positive recoil.

Why don't you make the barrel 16 and 1/4" just to be safe? I hope you are not including the flash hider in your estimate of 16" in barrel length. I can assure that the ATF Technology people will not consider that part of the barrel unless it is permanently attached.

in Maine, I ran into Dolf Goldsmith who immediately pointed out that when HE was in the Army, they performed that have a Class 3 customer that says yes; I



say no, because it will "slam-fire"....I have a bet on this, so I would appreciate some good advice.

C.S.

The Uzi "B-model" is a semi-auto carbine. The bolt is split into the forward section (which really is the bolt) and a rear section that is a firing pin carrier. The bolt must close all of the way on the semi-auto, and then the firing pin carrier is released by trigger pull, in order to fire the round. When the "B-Model" Uzis were legally converted to fully automatic, a new firing method was introduced, and they were almost all, to my knowledge, open-bolt firing SMGs. The firing pin is now fixed on the face of the bolt, and the cartridge is fired as it closes into battery; there is no secondary release of a firing mechanism. One of these converted Uzis would indeed fire when you closed the bolt on a live round, as this is how they are designed to fire. Some of the Mini-Uzis are factory closed-bolt SMGs, and you can see how this arrangement works if you inspect one of those. The answer is yes. it is possible to make an Uzi in a closed bolt method of fire, but it is difficult, an involved machining process, and it was rarely done.

JUST GOT MY FIRST ISSUE OF MG News. Man, I cannot believe that I have been missing all this good information...you got another life-long subscriber!!! On page 41 of the July '96 issue, Larry Merrill is shown holding the shotgun that was used in the Terminator II movie. Was he the bartender who tried to stop Arnold from taking the motorcycle in the beginning of the movie?

Scott

No, Larry was the guy that got thrown on the grill in the back room....

THIS IS TO CONFIRM THE RUmor that by using a modified bullet, a condom will silence a Thompson sub-

gun. However it will not last all day. It needs to be replaced after each 30-round stick.

The special bullets require an extra step. A 1/128 inch hole must be drilled, nose to base, through and through, before the bullet is seated. Semiwads are the easiest to drill. This size hole will retain flake pistol powder, but it allows gas to escape ahead of the bullet and inflate the condom. It's kinda like the dash-board air bags on TV that expand explosively, but no noise.

On full auto, that prophylactic just stands out there and shudders like a ghost having an epileptic seizure.

You can imagine what's going on in the White House. The Surgeon General wants a condom in every lunch box, while Reno wants to destroy all unregistered silencers.

So, if you see someone at the range with a condom drooping off the muzzle of his T.S.M. please TRY TO KEEP A STRAIGHT FACE.

Keep up the wonderful work.

Robert W.

I am sorry, Robert, but I don't believe you. It's not in Tracie Hill's Thompson Book, so it can't be a true Thompson accessory....

R: "RAFFICA," (MGN JULY '96) and George B.'s problem MAC-10 (.45). Although this is unlikely, could he be using unmodified M3 "Grease Gun" mags? Without the notch, these mags would attempt to feed at a steep angle, but it is doubtful that they would work properly (if at all). This sounds like his problem. (Possibly his mags are not notched "deep" enough so that the feed lips are in their proper position.)

Bonner J. C.

I do not believe that the M3 Grease Gun mags would seat far enough in to lock at the latch like you are thinking. Most Grease Gun magazines top out in the appropriate place in a MAC-10; they just won't lock up to the latch. Grease Gun magazines have the correct feed position for the MAC-10, they just fall out. As a matter of fact, MAC-10 magazines were originally made from Grease Gun magazines. The alteration made to the rear and the side ears was done to guarantee that MAC had a ready market for their magazines. Al-

though, the incorrect notching could certainly lead to not seating the bullet high enough for the bolt to catch...

I NEED SOME INFORMATION about the FN Model 30 LMG in .308 caliber. There are parts kits of this gun available and I would like to know if they can be assembled with registered Model 1919A4 right side plates. I have not been able to find a reference for the FN Model 30 in my 1978 James Infantry Weapons or my 11th edition of Small Arms of the World.

J.R.

I spoke with Kevin at Ohio Ordnance. He has worked extensively with the Model 30 and was able to confirm some things that I suspected. First off, the FN Model 30s that they have for sale are guns that came from Israel, and they are essentially a product-improved 1919 in .308. One of the main improvements is the ability to feed left or right, and the wearing surfaces are chromed. The internals are metric, so they are not compatible with the SAE parts of the standard 1919A4, and the receiver is about 5/8" longer. The trunnion is longer and



riveted in a different manner, top to bottom. What this means is that the sideplate would need to be 5/8" longer, and more intense machining would have to be done. Using a registered 1919A4 sideplate should only be done after you have your designed additions, to be welded to the plate, approved by Technology Branch, ATF. It is possible, but it is going to be a LOT of work.

AN YOU GO OVER THE MEANing of the various names for guns/receivers that I see referenced, such as "Wilson Tube," "Erb," "Group Industries?" Would a 1914A4 Group Industries be an original? What are the transfer status, histories and reputations associated with the various names?

I hear that some people are welding up MAC M11s to full auto only so that the gun can transfer into Connecticut. Have you heard of this? Can this be done to HK type guns?

A Class 3 Newbie

"Original" guns are simply that made by the original manufacturers. In the case of a Thompson gun, Colt would be the original, with Auto Ordnance and

Savage as originals also. Auto Ordnance, West Hurley, New York guns are considered "aftermarket" since they were made in the 1970s and 1980s. The litmus test for "original" seems to be whether they were government contract or not. MAC made the MAC-10, so a Powder Springs gun would be an original, But RPB and SWD were original manufacturers as well. An aftermarket MAC would probably be some of the receiver flats that were sold and registered as machine guns by someone with a Class 2 license. The Stens and MP-40s were original WWII submachine guns, but several U.S. Class 2 SOTs registered receiver tubes such as Wilson, Charlie Erb, and DLO would be some of the more common. DLO, Ramo, Catco, and Group industries built quantities of registered sideplates for the 1919A4 series guns. As to the quality of the gun, you need to know who took the sideplate and installed it on what condition parts sets. Many Ramo, Catco and Group Industries registered sideplates were sold "as is," and installed on a parts set in someone's basement using parts they had gathered over the years. There is more

to this than just the name on the sideplate or tube registration.

Whether or not a welded-up SMG that only fires full auto is accepted for transfer into Connecticut is anyone's guess. The fact is that the state law, freezing machine guns in the state, was written to ban the further importation of "select-fire" weapons. This left a loophole that allowed full-auto-only firearms to come in. The M60, 1919A4, M3 Grease Gun, MP40, M2-HB, are just a few of the legal guns to go into Connecticut. I would say that the rule of thumb on these MGs that folks are altering to full-auto-only is whether or not you can readily install the select-fire parts. In the case of an MP-5, if you made the trigger pack full-only, and someone could just install a new trigger pack, I would say it wouldn't fly. ATF is inspecting or investigating the claims on all of these transfers.

> Questions to: Dan Shea c/o MGN PO Box 20459 Hot Springs, AR 71902-0459





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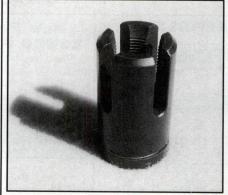
lystery Photo

by Dan Shea

ystery Photo is a regular MGN photograph of an interesting part or accessory—we promise not to put ridiculous screws or nuts in here. Each will be something of interest to the Class 3 community. You can send in your answers to Mystery Photo, P.O. Box 20459, Hot Springs, AR 71903-0459 or fax them to (501) 525-7519, or E-mail them to MGNews@aol.com. We will accept interesting photos from the readers, as long as they are accompanied with a full description of the parts in the photo. Those of you who answer correctly will be awarded the "Order of the RKI," a certificate that proclaims you to be a "Reasonably Knowledgeable Individual." This certificate is suitable for framing and will make a nice conversation piece on the wall next to your other accolades and honors. Besides, it gives you bragging rights!

Rick Bearss: The July 1996 Mystery Photo is a starlight scope mount for a Sterling suppressed SMG. The mount in the bottom of the picture is resting on a 15-rd Sterling mag. Keep up the great work.

Nick Tilotta: These mystery photo parts are scope mounts for the Sterling Mk V sub-machine gun, top and bottom views. The forward large ring splits into two pieces and mounts around the suppressor tube. The small clevis mounts to



September 1996 Mystery Photo. Photo: Milton Schick

the rear sight with the aid of a small pin, not pictured here. In the Sterling world, this is a very rare piece.

Robert Riddervold: Two birds with one stone. I noticed that in your latest issue of MGN there was no answer to the June 1996 Mystery Photo, so I am going to include it with my answer to the July Mystery Photo. The June photos are the barrel and barrel extension assembly to the 7.62 mm NATO M219 tank machine gun. These weapons have been replaced by the G240 (FN MAG) for the most part, but a few may still be in service. The tip-off for this model is that by close inspection you can see where the barrel extension assembly has been lightened by removing unnecessary metal. Good one, I almost put it aside.

The July Mystery Photo was a little easier. These are factory Sterling IWS

> (night sight) mounts specifically made for the Mk V/L34A1 Sterling. These sights are fitted with the standardized STANAG mount for use with NATO night vision equipment. Of interesting note is that these will not fit onto standard Sterling subguns. The ring at the front of the mount has a 1.75-inch diameter for fitting over the silenced Mk V/L34A1 Sterling. The barrel jacket of the standard Sterling is

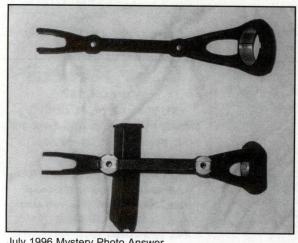
only a 1.5-inch diameter and a sleeve is required for a proper fit. In addition, the butt stock cannot be collapsed once the mount is fitted.

Thanks for the M219; that one put me for a loop at first. Keep up the good work. Dave Cammack: The photo shows a bottom and top view of the Sterling IWS mount (night sight mount) for the Mk V/L34A1 suppressed Sterling SMG. The rear end (left in photo) attached to the rear sight via an extended sight axis pin, and the front clamped around the suppressor casing. The mount was designed to accept night sights with standard NATO (STANAG) mounts. (Big clue was the short Sterling mag that the lower mount is resting on.)

Tommy Walls: Concerning the July 1996 Mystery Photo. This piece is a Sterling IWS night sight mount for the Mk V. This is a STANAG mount and requires an extended backsight axis pin. This unit was used with night vision on the Mk V for sentry removal. The original mounts were made from aluminum but some copies were made of steel. I have one of these on my Mk V with a Tasco Pro-point. Works very well with the option to use open sights also. The Mk V with this sighting system becomes fantastic with the closed bolt option installed in the gun.

Dan: I have to hand it to you guys, I did not expect to see this many answers on the July 1996 Mystery Photo. Lucy is busy typing up the RKI's for this one. I never imagined that so many of you Sterling owners had the scope mount. especially for the suppressed model.

Photos of the Sterling Scope mounts were submitted by Steve Closs of River City Exotic Weapons in Portland, Oregon. Helmets off and an aerial burst of tracer in his honor for submitting these fine mystery photos. He imported some and had them for sale. I can't help wondering if the RKI's that answered this one hadn't recently purchased their scope mounts up in Oregon....



July 1996 Mystery Photo Answer.

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The Browning 1918A3

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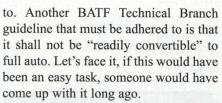
John was nurtured in the stoic yankee tradition that made America the unique power that dominated the late nineteenth and early twentieth century. John M. Browning epitomized Yankee ingenuity. Archimedes said, "Give me where to stand, and I will move the earth." John M. Browning did just that by developing the BAR, and he moved the military world into the twentieth century (see "BAR: U.S.A.'s First S.A.W." *Machine Gun News*, March 1996). The BAR represents the best in American character: rugged, reliable and self-sufficient.

But, what of those who are not fortunate enough to be able to own the BAR as a Class 3 firearm? Robert Landies and his team at Ohio Ordnance have a solution—a semi-automatic version. This rifle, the 1918A3, is for the serious collector or reenactor who lives in a non-Class 3 state or someone who just doesn't want the hassle of federal forms and bureaucracy.

How does one go about designing a semi-automatic version of a full-auto classic? "Don't try this at home," is my first advice. My second gem is, "Once a machine gun, always a machine gun," thus saith ATF. You cannot turn a full-auto BAR into a legal semi-auto easily. Remember this, the receivers must be manufactured from scratch as semi-au-

Rebirth of a Classic

by LT. JAMES L. BALLOU



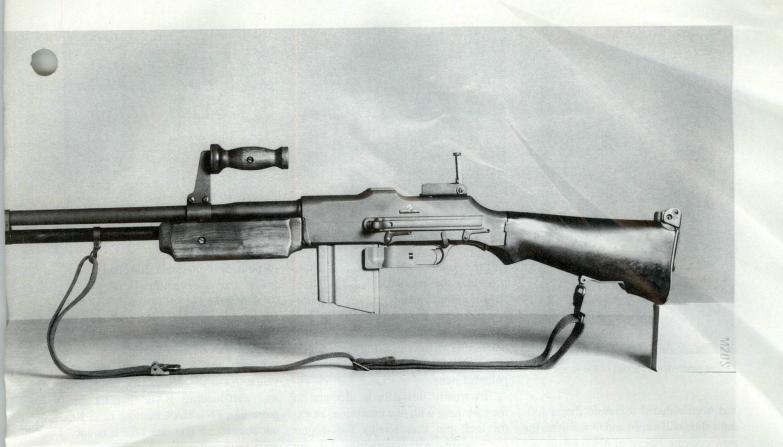
Upon examination of a sample gun by BATF's Technical Branch, they described the 1918A3 as such:

"Examination of the submitted sample, no serial number, indicated that it is a closed-bolt, hammer-fired rifle in caliber .30/06. The firearm has the external appearance of the Browning Model 1918 (BAR) selective fire rifle.

The receiver has been machined from a solid block of steel and is originally designed and manufactured to permit only semi-automatic fire. The receiver cavity is machined such that a standard BAR hammer cannot be installed. The portion of the receiver opening that



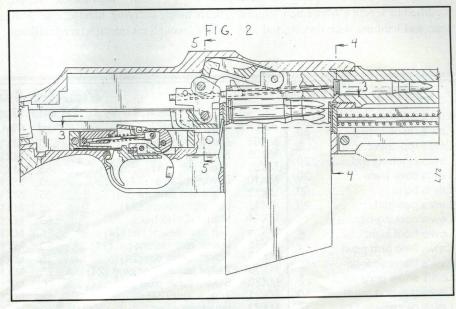
Robert Landies of Ohio Ordnance fires one of his semi-automatic 1918A3 rifles.



supports the rear of the trigger housing has been redesigned so that a standard BAR trigger housing cannot be installed. A second retaining pin hole has been drilled through the receiver to support the rear of the redesigned trigger housing. The slide has been modified by machining the lower surface to remove the original sear surface. The channels in the receiver for the modified slide have been machined to accept only the modified slide. A standard BAR operating slide will not fit into the receiver. The slot in the front of the receiver for locating the gas tube/handguard has been changed so that a standard BAR gas tube/handguard will not fit.

The firing pin has been modified and is designed to work in conjunction with a secondary striker that is mounted in a redesigned bolt link. The redesigned firing pin is such that the weapon is now designed to fire from the closed bolt when the secondary striker is hit by a spring loaded hammer.

The trigger housing has been redesigned by the incorporation of a spring loaded hammer and a M1 carbine type sliding sear that also serves as a disconnector. The rear of the trigger housing has been modified to mate with the rear of the receiver and a second retaining



Details of 1918A3. Note articulated hammer.

pin hole has been drilled through the hammer and trigger mounting block."

You will note from the BATF Technical Branch letter that the team at Ohio Ordnance was able to overcome numerous mechanical obstacles so that parts from fully automatic BARs would not interchange. Additionally, the new 1918A3 was declared not to be an assault rifle under the 1994 ban.

In designing the semi-auto BAR, the

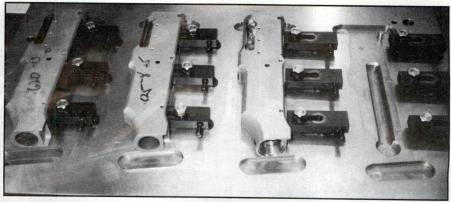
most glaring difference from the selectfire version is that there is an articulated hammer in the trigger mechanism. Not so obvious is that it functions entirely from the closed-bolt position. You will remember the standard BAR operates from an open bolt which fires upon closing.

Many of the internal full-auto parts do not interchange with the semi-auto rifle. For instance, the slide dimension



Actual machining process of the receivers.

has been reduced to assure that a fullauto slide will not fit and to facilitate the new cocking sleeve in place of the old hammer. The trigger housing has been modified to accept a whole new trigger, sear, and hammer with driving rod and



Before the machining process, the receivers are mounted on fixtures.

spring. Additionally, the modification precludes the installation of a full-auto trigger group. The integral key to the entire puzzle is the changing of the bolt link to a secondary firing mechanism containing an interim firing pin which is initiated by the hammer. This link is the patented item.

Externally this rifle is identical to the real thing with one exception, an extra lock pin that retains the trigger mechanism. All accessories for the BAR will readily interchange: bipod, flash hider, carrying handle, etc. And, since Uncle Sam manufactured millions of politically incorrect 20-round magazines—they are plentiful.

Firing the 1918A3 was a little different than the standard BAR. Gone was the characteristic ka-chunk as the bolt slammed forward to fire a round, also the shuffle of .30-06 rounds as they advance in the magazine. NO, this was a true self-loading BAR that handled more like FN's BAR hunting rifle. I'm not suggesting that one take a twenty-pound rifle out in the woods. This is not your average deer rifle. Like its illustrious cousin, it is rugged, reliable and very accurate.

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MX102	7.62 x 54r case extractor	15.	MX200	Finnish Maxim parts kit 45	50.
MX107	Brass water jacket plug (09)	12.			

MISCELLANEOUS

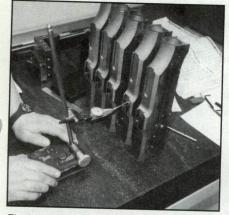
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We tried all types of .30-06 ammo including G.I. ball, military reloads, and some soft-tip hunting rounds. Like all Brownings, the weapon is gentle on brass with just a slight dent where the empty shell strikes the side of the receiver. In fact, a small goldish-yellow smudge will appear to the rear of the ejection port. This should be no surprise to people who know how the BAR works.

In short, if you want a fine example of a true American Classic with all the charisma of a historical firearm, then the 1918A3 is for you.

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Final inspection of the locking surfaces on the receivers.



Completed receivers on the bench after final inspection.



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The Battle of the Belt-Feds

by Dan Shea photography by Jim Bonis

It started like any other day that I have been in Vero Beach, Florida: hot, sunny, and full of interesting machine guns to take apart and examine. MGN was visiting Reed Knight once again as guests who were very grateful for the opportunity to view and study his reference collection. On this particular day, however, events led into a situation that MGN's readers just had to be told about.

At about 10:00 a.m. Jim Bonis and I were disassembling some of the Colt machine guns, and working on a "Colt Model Identification Guide" (for a future issue) when Reed came into the room with Doug Olson. They were discussing the various attributes of the current M249 machine gun as opposed to the new Stoner 86 (Ares) light machine gun. As the discussion progressed, I naturally stuck my nose in. Things took their normal course, and to our delight, Reed asked us to take the two machine guns out for a test. It just so happened that he had both guns available. Jim Alderman, one of the KAC supervisors who is also a Stoner 63 owner and enthusiast, joined in for the testing.

We were sitting around preparing for the test when Reed realized that no one had done a comparison of the new and old model Minimis. Further discussion revealed that I had just assembled Reed's HK-21E into the .223 caliber configuration; it had never been assembled before and needed to be test fired. So...why not take that out, too. An hour more of the BS session in the back room, and we had seven .223 caliber belt-fed machine guns lined up to compare! Ammunition and a PACT timer were gathered, as well as other supplies, and off we went to the back range. The ensuing afternoon of testing and comparing the various machine guns was something that rarely happens outside of a military testing grounds, and the results are virtually never available to the shooting fraternity. Knowing how many of our readers are in the arms business, the military, or just RKI's who have an interest in this type of thing, MGN is pleased to present:



The Battle of the Belt-Feds

Parameters for the test were simple: all machine guns were to be fired from the viewpoint of the operator, things that the end user—the grunt—were going to care about. We were not going to stress test and magna flux receivers, due to the rarity and value of the firearms involved.

In some circles there may be a certain "glory" to the title of "Machine Gunner," but anyone who knows, is aware that it involves a lot of running, slamming the gun down, fixing it under intense pressure, and really being "comfortable" with the ergonomics of the gun. Anyone who has ever fired a Steyr AUG with a Beta C-Mag in it understands THAT one. With these con-

siderations in mind, our first item on the agenda was the vital statistics of each contestant.

In the SR-25 assembly room, we set up a scale and a tape measure, and stripped, measured and weighed each machine gun. Weight was done with the feeding device attached, empty. This was done because the feeding devices were of varying capacity, and that would skew the information that we were looking for. They were examined for safety, then lubricated with WS-25, reassembled, then a function check. We linked ammo into 100-round and 50-round belts, loaded our gear, and headed to the range.

We first set out some tarps to catch brass and links—the Stoner links are rare and expensive. Firing of the Stoner 63A and the Colt CMG-2 were done first, as they both use the Stoner S-63 or XM-27 link, and we wanted to keep the links separate.

All firing for test was done from the prone, bipod-supported position. While this may not be the "fun" or "Rambo" position, it is indisputably the best tactical firing platform a machine gunner is going to find, excepting his tripod or vehicle mount. Firing was done in 4- to 6round bursts. The fact that machine guns

are basically an "area" as opposed to a "point" weapon was also taken into account, but these are all 5.56 mm weapons and are utilized in the field more as a sustained fire automatic rifle than as a crew-served weapon.

Somewhat of a different application, but that does not change the fact that the prone bipodsupported platform is the best. Hitting the target counts a lot more than how "good" you look when you are firing.

In the interest of fair reporting, I took it on myself to fire the prone test of each gun. There is no other way to compare them than to have one shooter do it all. The other testers would not have let me survive long enough to leave the range if I hadn't made sure they did some belt lift tests and shoulder firing...but I personally did all of the prone

The belt lift tests were all related to a 100-round belt being freely hung off the side of the gun. This is done to see whether the feeding mechanism adequately transfers recoiling energy to the feeding tray area. It is interesting to note that none of the guns experienced any problem in lifting the belt-5.56 mm ammunition is not very heavy, and a 200 round belt might have significantly increased the probability of trouble-but that would have been an improper test. Hanging a 200-round belt from one of these guns would be unusual to say the

Ammunition used in the tests was all USA White Box 55 grain Q3131 from Lot # KA81. Links for the CMG-2 and the Stoner 63A were XM-27 links; all others were M27 links.

What follows is a little history and a short reaction to the firing of each weapon.

Colt CMG-2 Machine Gun

The Colt CMG-2 light machine gun was manufactured in the 1969-71 period at Colt's Military Arms Division in Connecticut. The "mission statement"

for Colt included the lofty terms



Colt's CMG-2 light machine gun with drum magazine installed.



Firing the CMG-2 to judge muzzle rise. There is virtually none, because the bolt "runs out" its travel on the recoil-no jarring stop.



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Colt's CMG-2 fed smoothly and had little recoil. It stayed remarkably well on target. Having the cocking mechanism be the rear pistol grip was kind of awkward at first, but once the gunners got used to it, this system had its advantages. You didn't have to break your trigger grip or line-of-sight in order to cock the bolt.

"CMG-2 is a one-man light machine gun capable of placing an accurate, sustained volume of fire on tactical targets in support of the individual rifleman," and "The fluidity of tactical situations currently being experienced demands a weapon which can be easily transported for long distances with sufficient ammunition to be effective without frequent resupply." Basically, they were going after the market that the Stoner 63 series already was in, using the same links, and the 150-round drum concept. The drum was hard to load, because it generally stays on the gun with a cover lifting out of the way for loading.

There is a long recoiling system that lets the bolt "run out." This makes the recoil extremely smooth. Barrel changing was quite simple, and effected by retracting the bolt so that the M16 style bolt lugs were unlocked from the barrel extension, pressing a lever, and lifting the barrel up and out. Cocking the firearm is accomplished with a novel rear grip action—when the rear pistol grip/trigger group is pushed forward, it catches the forward slot of the bolt carrier and is pulled to the rear—bringing the bolt carrier with it. Firing is basic open bolt.

The CMG-2 was very smooth. It was a good level shooter. Keeping the sight picture was extremely easy. Recoil was negligible. These are very positive attributes, which almost overcome the awkwardness of the feeding system. A reloading drill was virtually impossible to put together on short notice: something simple and repetitious that would work in a high-adrenaline situation. Disassembly of the CMG-2 was a slow

process, mainly because none of us were familiar with the procedure. We had to figure it out as we went. Once that was done, it proved to be fairly simple.

Only a few of these guns were made, and it seems a shame that the project was dropped. With a few more field tests, this could have been a very interesting contender for a light ma-

machine gun role, and they chine were made, but the quick gun. change, by simply Since lifting the this was a prototype production gun, parts availability Stoner 63A left-hand view doesn't even using the bipod. enter the scenario.

Stoner 63A Machine Gun

Readers of *Machine Gun News* are familiar with the Stoner 63 series from our "Stoner Chronicles" feature. This author will confess to somewhat of a bias towards the 63A. This 1963 design has all of the most desirable attributes of

box off its hanger and dropping in a new one, made it quite efficient. The field use of the larger capacity boxes showed that they had to be hung underneath the 63 for balance, but this added complications to changing the belt.

of fire without physically moving the

gun. This is not particularly a negative,

since this was a "mobile" test, not a tri-

box magazine feed that hangs from the

feed tray for the test. These were light-

weight, simple to use, and fast to

change. Perhaps a 150- or 200-round

box might be more suitable to the light

We utilized the standard 100-round

pod-mounted defensive-position test.

Disassembly and servicing the Stoner 63 series guns is quick and simple. It



Stoner 63A performed exceptionally well (Of Course!).

a 5.56 mm machine gun: it is light weight, easy to maintain, reliable to shoot, and has a low enough cyclic rate (650) to be controllable.

In our testing, Gene Stoner's design held its own against even the most modern of weapons. Fired from the prone bipod-supported position, keeping the sight picture was easy. This is one of the key points of interest to this tester. If, after your first round, you can't tell where the machine gun is pointing, why are you pulling the trigger? The Stoner 63A was right on target with 4- to 6-round bursts. The bipod was sturdy, and provided a stable platform. Being a fixed bipod, it did not present a wide field



Jim Bonis firing the Stoner 63A for the rate of fire testing. Dan runs the PACT timer.

is all readily accomplished without the aid of tools. Parts groups are interchangeable and quick to replace if damaged. The overall design is light and simple for the operator to understand.



CETME Ameli Machine Gun

CETME of Spain presented this SPAM gun (Special Purpose Assault Machine gun) in 1982. It utilizes a de-

Reed Knight tests the belt lift on the Ameli. For a high rate of fire gun, it was surprisingly controllable.

layed roller blowback system, much like the HK series firearms. Considering the Ameli is manufactured by the same peo-

ple who developed the G-3 series, that is understandable. The exterior appearance is that of a scaled-down, green MG-42. Barrel changing is the same as the MG-42—out through the side of the receiver.

There is an internal adjustment for changing the cyclic rates from 850 rpm to 1250 rpm. In our tests, we

were on low rate but were consistently over 900 rpm. The Ameli might be considered the "sleeper" of the test. We all had a pre-conceived notion that this gun

would jam, misfeed, and generally be uncontrollable. This was due to scuttlebutt among writers. The Ameli is a rare gun, and a few people's experiences have been spread around for years. I have had one before but never shot it much. In the United States these are highly valued guns.

The Ameli that we fired ran flawlessly. Not one jam. It was surprisingly smooth to shoot, and I had no trouble whatsoever keeping the sight picture during bursts. However, the bipod is awkward, requiring a lot of familiarization to get comfortable with it. It has much in common with its MG-42 father in that respect.

Disassembly was easy to accomplish, once we figured out where the "start" step

was—a hidden flat spring in the lower buttstock. Once that was opened, it all slid apart.



Note the MG-42 style bipod on the Cetme Ameli. All of the light machine guns tested were fired from this position—effective and time tested by machine gunners all over the world. Prone, but held into the shoulder, in 4- to 6-round bursts.

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While none of the expected problems were experienced in the tests, it was obvious to all of us that the internals were "rough." This was not a smooth-cycling action. There was a lot of metallic friction inside. After firing the Stoner and CMG-2, it was like moving the action on a "knock off" Makarov compared to a Sig Sauer pistol.

HK 23 E Machine Gun

If the Ameli was the "sleeper," then the HK 23E was the "big D." "D" as in disappointment. The gun was heavier than the others. It is basically an HK 21 that has 5.56 mm parts installed in it. The HK 23E was a full four pounds heavier than most of the other guns.





HK 23E testing for keeping the sight picture.

of their fine products, we all expected this to be a smooth firing weapon. The 7.62 caliber HK 21 series does have a reputation for beating the operator

severely around the shoulderthe 5.56 cal-



FN M249 prepared for firing.

iber version did the same. I found it virtually impossible to keep a sight picture even on short bursts from the prone bipod-supported position. The new swivel

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Old paratroop version of the FN Minimi with box feed device.



FN M249 with box feed device. This is the new style gun in use by the U.S. military.

type bipod offered a wider field of fire but was a little more difficult to get used to than the standard fixed leg style. Out of all the bipods I have fired from that offered the swivel feature, this one was probably the sturdiest.

Assembly and disassembly were "HK easy": simple push pins and familiar procedures. Everything was accessible and modularized for replacement. It's a good design in many ways, but the end use of the gun seemed to lose controllability. That counts most of all. This writer is a long-time HK fan, but until the 23E smooths out, I could not recommend it.

FN Minimi (Old Model) Machine Gun

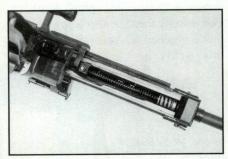
The Minimi available to us for the test was a paratroop Belgian model. It has the old style buffer and recoil system. It uses both belts of M27 disintegrating links and M16 magazines. Belts

are inserted in a fairly standard top cover arrangement, while the magazines insert at an angle from the left side. This is the firearm as originally accepted by the U.S. Government.

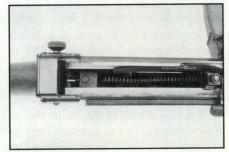
The first model had a higher rate of fire. It was somewhat difficult to maintain the sight picture. Barrel changes were easy.



FN Minimi old model paratroop.



Recoiling system on the old Minimi. Note the flat spring—usually painted yellow.

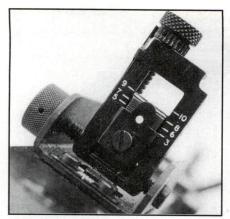


Recoiling system of the new style M249.

Comparison Specifications							
	Stoner 63A	Cetme Ameli	НК23Е	Colt CMG-2	Minimi	M-249	Stoner M-86
Length	40.25"	38.5"	40.75"	41.875"	41"	40.75"	35.62"
Length w/stock close	ed						32.375"
Barrel Length	20.375"	15.75"	17.75"	20.625"	19.375"	19"	14.25"
Weight, unloaded	13 lbs.	15.2 lbs.	19.75 lbs.	15.12 lbs.	15.15 lbs.	16.75 lbs.	10.5 lbs.
Twist	1:8	1:7		1:12	1:7	1:7	1:7
Rate of Fire	650-685	900-920	900-920	650-675	950-1000	735-760	550-575
Weight w/empty Feeding Device	13.2 lbs.	16.5 lbs.	21 lbs.	16.75 lbs.	15.65 lbs.	17.25 lbs.	11 lbs.
Variations in Time	slight	medium	slight	smooth	slight	slight	best
Between Rounds	.005 sec.	.012 sec.	.004 sec.	.002 sec.	.005 sec.	.005 sec.	.002 sec.

Weight was with typical feeding device, unloaded, because of the variation of capacity between feeding devices.

Variation in time between rounds is a good indicator of how smooth the mechanism is working. Note that the Ameli, which had a very rough feel to the interior workings, had a .012 second variation, while the ultra-smooth Stoner 86 had only a .002 second variation.



Rear sight on the old Minimi.



Rear sight of the new style M249 with the 30-round M16 magazine inserted.

My impression of this configuration was that the rate of fire was much too high for its role as a light machine gun. The bipod platform was sturdy, but the high rate overcame its advantages.

FN M249 Minimi (New Model) Machine Gun

In the last couple of years, FN has added a hydraulic rate-reducing and recoil-reducing device. It worked slick in our tests. Rate of fire fell from a difficult-to-manage 1000 rpm to a much more manageable 750 range. (*MGN* is visiting FN in September 1996 so keep your eyes out for an "in-depth" on this gun).

It is the opinion of this writer that in most instances, slower is better. The only exception that I have observed is when the firearm is fired in "hypercyclic" bursts. A 3-shot burst from an HK VP-70M at 2200 rpm is very controllable for impact point, while a 3-

round burst from a 1200 rpm gun is apt to be all over the place. Time in perceived recoil is involved here, not the actual cycling of the gun. We shooters tend not to recoil as quickly as the firearm does for each round leaving the barrel. We can't physically move at the rate the bolt or slide of the firearm does. This becomes a cumulative rise, and in full auto without proper controls, it becomes a "spray and pray" situation. Conversely, there is also a lower point that is reached at about 750 rpm where

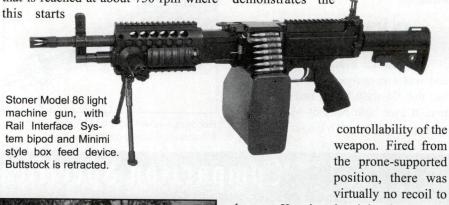
to end being a problem. It is almost as if the natural cycle of the gun starts coming into play. Optimum rates of fire are estimated recently to be in the 550 rpm and under cycle rates. More on that later.

The improved M249 was a more superior firearm to use than the old model. Sight picture was relatively easy to keep, and the ergonomics of the gun were much better. The angle of the carrying handle was more natural to running with the gun, and the upper heat

guard added to the barrel assembly was a definite plus.

Stoner 86 (Ares) Light Machine Gun

When Gene Stoner was at Ares Corporation, he developed the Ares light machine gun, referred to here as the Stoner 86. This lightweight belt-fed was amazingly controllable. Knight performs a demonstration where he fires 200 rounds continuously while holding the 86 one handed, over his head. This demonstrates the

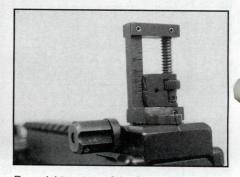


the gun. Keeping the sight picture, one of my major criteria, was easy. You could watch your rounds hitting.

I had a lot of concern over the fact that this seems more like a rifle than a machine gun when you look at it, but



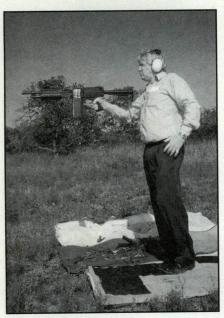
New model M249 being put through a belt lift test.



Rear sight system of the Stoner 86.



Reed Knight starting his startling 200-round one-handed "burst" with the Stoner 86. He gets it firing....



goes one handed....



...and fires the whole belt from this position.

The Stoner 86 stayed virtually level the entire

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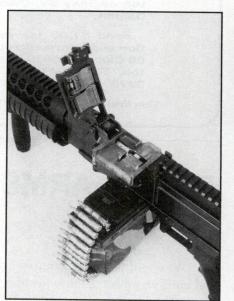
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MACHINE GUN NEWS PO Box 20459 Hot Springs, AR 71903-0459 that didn't interfere with this gun excelling in all aspects of the testing. In addition to its overall small size, the Stoner 86 has a collapsing M16 style buttstock that can be completely removed—with the weapon still functional. Even with the buttstock removed, this is still a viable machine gun. Knight has also added the Rail Interface System (MGN September 95), which expands the uses of the gun over a wide spectrum of special operations.

The bipod we used was very lightweight and is headed back for reworking.

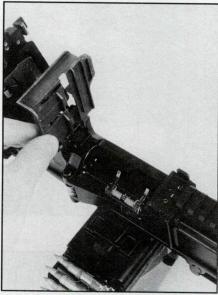
Look forward to more in-depth articles on each of these firearms in *MGN*. We did full assembly/disasemblies on each one. It was in the interest of comparing them all that this brief essay is presented.



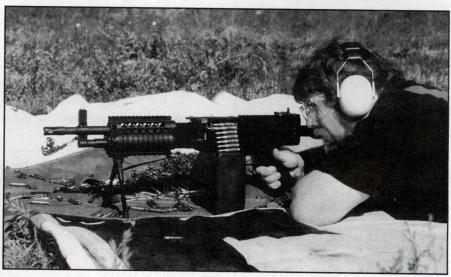
Open feed tray on Stoner 86.



Reed Knight and Dan Shea going over the fine points of the Stoner 86 LMG.



Inside the receiver of the Stoner 86.



Stoner 86, the Ares light machine gun, fired from the prone position.

LAKE CITY ARSENAL! .50 CAL. AMMO!

CATSET LLC has obtained a small quantity of LEGAL U.S. Government, .50 cal. ammo. This is mid to late 1980's manufactured that was properly stored. We have receipts from the government contractor who legally sold it to us. If you want some top quality ammo without the headaches of buying from the "Underground" then we have your ammo. This was not "Remanufactured" or "Imported" from some third world 105 degree humid jungle—it has all been properly stored and is the best you can get!

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More API-still Remington 1944, but this is in 10 rd boxes, sealed 350 per tin, inside dovetail wooden boxes-original WWII packing! Shoots real fine, and historical too. Small quantity left—350 rds in case. \$2.50 per rd.

APIT!!!! Armor Piercing Incendiary Tracer!!!

U.S. Government Frankford Arsenal 1950's mfg. No guarantees on the tracer although what we tried worked perfect. This APIT is in sealed 120-rd spam cans, 10 rds per box. Once again, this is NOT "Remanufactured" ammo-all original from proper storage, and it's beautiful! \$3.00 per rd 120 @ 2.75 per rd 240 @ 2.60 per rd 960 @ 2.45 per rd.

20 mm Target Practice Ammo

Post WWII linked for the Hispano series (MK12). Nice and clean, legitimate source ammo. Only a small quantity available! \$7.00 per rd 100 @ \$5.00 per rd 200 + @ 4.00 per rd.

35 mm Dummy Rds-about 14" long, new in their storage tubes. The inert projectiles are a brilliant purple—these are gorgeous! We have less than 10 left. Retail \$85.

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.308 French (SF) 1973 Belted for the M60 Machine Gun

50 round belts. We shot up a couple of cases at the Hiram Maxim shoot—not a single problem. Boxer primed, crimped primer pockets 50 round belts \$10. 1600 round case. \$295.

.30-06 Ball This is 1969 FN mfg., loose repack in 30 cal cans. Real clean, and ran the Brownings all day at the Hiram Maxim Historical Society shoot. 250 round can \$62.50.

-D&S Arms M855/SS109 with the 62 gr. projo. Nice stuff-Danny Orr does a real good job on these rounds 50 rounds \$12.50. Some of Danny's 55 gr .223 reloads. Box of 50 \$8.00

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40 mm PRACTICE Grenades M-781

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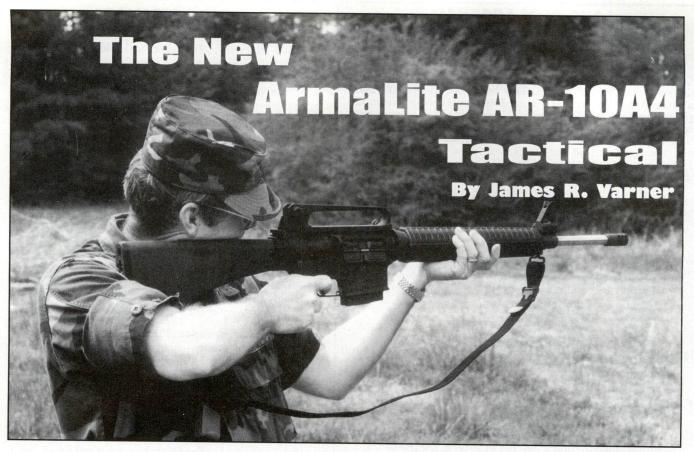
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Although the accuracy testing was done from the bench, we put a few rounds down range off-hand to check out the general balance and handling characteristics. The rifle balanced well and did not exhibit the anticipated muzzle heaviness.

ver since the M16 replaced the M14 as the standard military service rifle, the complaint has been heard "I'd like it if it were a .308." The idea of the M16 style action in the 7.62 mm NATO chambering is not at all new, but has been scarcely applied. With the exception of the few original ArmaLite AR-10 selective-fire rifles, semi-automatic clones assembled from parts kits and the Knight SR-25 series, there have been few recent attempts at this combination. That changed a few months ago when the newly reformed ArmaLite reintroduced the AR-10 in the Match Rifle configuration.

Of course, with the advent of the recently released AR-10(T) Match Rifles from ArmaLite, there has been a clamor for an even less expensive version to fill the void between the Springfield M1A products and more expensive options. It seems the AR-10A4 may meet the shooter's needs better than its similarly priced competition.

The AR-10A4 rifle is a "tactical" version of the AR-10 that is very similar in appearance to the M16A2 5.56 mm rifles. It features a buttstock, pistol grip

and handguards that are virtually identical to, and fully interchangeable with, those of the M16A2.

Shooters familiar with the M16A2 will have no trouble operating the AR-10A4. The many operational similarities are intentional so that familiarity and proficiency with the weapon should be simplified. The only areas of significance where there are operational differences are in the detachable carrying handle, detachable front sight and the loading of the magazine. The carrying handle and front sights are pretty obvious in their operation. The magazine does require some explanation.

The magazine is a modification of the M14 design. In fact, the ArmaLite company is offering to modify customers' original 20-round M14 magazines so that they will work in the ArmaLite. Part of the difference in the M14 and the ArmaLite magazine is the method in which the bolt catch is activated.

The bolt catch, or bolt stop, is designed to hold the bolt open after the last round of a magazine has been fired. It makes reloading the weapon a little

quicker because the bolt group is already locked to the rear. By merely inserting a fresh magazine and depressing the bolt catch, a round is chambered and the weapon is again ready to fire. This feature is found in both the AR-10 and the M14 series of rifles. The difference lies in the physical configuration of the bolt catches, and the way they use their magazine followers to activate them. In order for the AR-10 magazine follower to activate the bolt catch, a small plunger extends from the rear of the follower and eventually lifts the bolt catch up to snare the bolt.

This small spring-loaded plunger, located within the magazine follower, is not present in M14 magazines. This plunger must be depressed as the second round is inserted into the AR-10 magazine, in order to permit loading the magazine to capacity. I fumbled at my first attempt to load the new AR-10 mags but found it to be a minor problem after some practice. I think the minor increase in the difficulty in loading these magazines is a small price to pay to insure the future availability of large capacity magazines at a reasonable cost.

I asked if the magazines would still work in an M14 after modification and was told that they "might" work. Some of the modification involves milling off a portion of the rear catch on the magazine. If the catch is entirely removed, the magazine will not be securable in the M14 receiver. Once part of the catch is removed, the remainder of the catch may not be securely held by the remaining spot welds and may break off. Such breaking off is of no consequence to use in the AR-10, as the lug is unnecessary.

A close examination of the new AR-10 rifles shows that some very careful engineering has gone into their design. This design has been evolving for over thirty years, and the engineers at ArmaLite have benefitted from the considerable experience they have had with the many 5.56 mm and 7.62 mm variants.

The receiver halves of the AR-10(T) are machined from forgings of 7075 T-6 aluminum alloy. The use of the forging process permits a reduction in the actual machining required to finish out the rifle, while insuring the best metallurgical properties of the finished product. The inclusion of the brass deflector on the upper receiver is a boon to lefties, as well as reloaders, who don't wish to spend valuable range/training time hunting for their far-flung brass.

The flat top receiver permits the mounting of a scope directly to the receiver, or the use of a removable carrying handle/sight base as a backup. The sights used on the carrying handle are much like the M16A2 type but with "National Match" type half-minute elevation adjustment and smaller apertures. The knobs that secure the carrying handle are large enough and knurled well enough to tighten by hand but are slotted for tightening with a flat blade screwdriver or coin.

Opening up the receiver halves reveals a very beefy bolt catch, designed to work with the much heavier AR-10 bolt group. The buffer appears to be made of anodized aluminum, as is the buffer for most 5.56 mm clones.

#2102

The trigger is virtually identical to a standard 5.56 mm semi-auto clone, but a match grade two-stage trigger is available as an option. For those who like to tinker with their triggers, the new ArmaLite AR-10 rifles will accept nearly all aftermarket triggers designed for the



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This close-up view of the inside of the receiver shows the large bolt catch being lifted into position by the magazine follower. The hammer, trigger and other fire-control components are mechanically interchangeable with the 5.56 mm semi-auto variants.

M16 type rifles but will not accept the new Colt manufactured components that use the large diameter trigger and hammer pins.

The barrel is similar to the 5.56 mm heavy barrels available from other manufacturers. The rifle evaluated for this article features a stainless steel barrel, but chrome-vanadium military type barrels with a hard chrome bore and chamber are supposed to be available very soon. The blanks are made by Wilson and feature a four-groove button rifling profile, with a 1-12 twist rate. This should make them ideal for the 150grain bullets that make up most of the military full-metal jacket ammo available. The barrel is 20 inches in length and features a built-in muzzle compensator. Because the BATF has ruled that the ArmaLite muzzle compensator is

not a "flash hider," and because of its permanent attachment, the weapon is technically "ban compliant" and can be bought by anyone. It was difficult to determine the true effectiveness of the muzzle compensator, but the rifle was very comfortable to shoot from either the bench or off hand. It also serves to protect the muzzle

crown from damage or abrasion.

The rifle is produced in a semi-auto form only. ArmaLite has stated that they have no present plans to produce a selective-fire version of the AR-10 series of rifles. However, lighter weight and even more compact versions of the ArmaLite rifle are anticipated.

There is a feature inside the rifle that is bound to be of great benefit to all safety-conscious shooters. This rifle features a spring-loaded firing pin to virtually eliminate any possibility of a "slam fire." This spring loading will help to reduce the momentum the firing pin might attain, as it returns to battery, to a level below that required to set off even the most sensitive commercial



This view of the left side of the new ArmaLite AR-10A4 shows the large knobs on the quick-detachable rear sight/carrying handle assembly. The magazine pictured is the 10-round capacity magazine furnished with the weapon.

primers. For years, semi-automatic rifle shooters have had to live with the fear and uncertainty of a slam-fire. It's about time someone took some engineering steps to correct the problem.

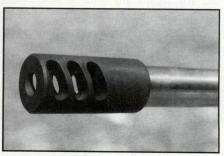
It seems that high accuracy in semiautomatics is fairly easily obtained if you are willing to limit yourself to the 5.56 mm caliber. However, many tactical situations, such as firing through barricades or glass, have shown the need for the larger caliber weapons. The option of rapid follow-up shots have made the semi-autos much more versatile than the bolt guns, with no meaningful degradation in performance. The only problem in the past has been that the semiautomatic match grade rifles have just been priced out of reach of many wouldbe users. It appears this is no longer the case.

To determine the accuracy potential of the newest ArmaLite, I went to a private range for a targeting session. I fitted the rifle with a Leupold 3.5 x 10 Tactical scope on an ArmaLite mount,



Gold Meda

Although not advertised as a "match rifle," the AR-10A4 certainly delivered "match-like" performance. The average group size with Federal Match ammunition was under one minute of angle (MOA) at 100 yards.



The muzzle compensator is permanently attached to the barrel and is therefore "ban compliant." The compensator seemed to help tame the recoil to more closely resemble a .243 than a .308.

ACCURACY RESULTS

All groups were 5-shot. All measurements were of extreme spread and from center to center of bullet impact.

Ammunition type			Ammunit	ion type
	Federal Gold	Medal match	Military	M118
	.308 Win. 16	8 gr. BTHP	Ball 174	gr. BT
	Group 1	.79 inch	Group 1	1.80 inch
	Group 2	1.01 inch	Group 2	1.85 inch
	Group 3	1.12 inch	Group 3	1.00 inch
	Group 4	.74 inch	Group 4	1.48 inch
l	Group 5	1.29 inch	Group 5	1.11 inch
	Average of five grou	ups = .99 inch	Average of five gr	oups = 1.44 inch
	extreme spread.		extreme spread.	
I	Smallest group	.74 inch	Smallest group	1.00 inch
	Largest group	1.29 inch	Largest group	1.85 inch
١				

Note on accuracy testing: The testing was conducted at the Blue and Grey Rifle Range at Guntersville Lake Dam, Alabama on 2 May 1996. The rifle was sighted in with a minimum of firing, and cleaned between the 25 rounds of Federal match ammunition and the 25 rounds of M118, with two fouling shots used after cleaning and before firing resumed.

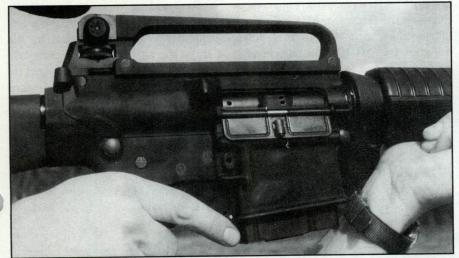
directly on the receiver rails. This scope and mount combination has proven to be an excellent combination when used in similar applications. The ammunition used was both Federal .308 Gold Medal match grade ammunition, as well as some old U.S. M118 match-grade ball ammo. All firing was done at 100 yards from a bench-rest position.

From the tables of results, it can be seen that the average performance was excellent, with 5-shot groups ranging in size from .740 inches with the Federal Match ammunition to 1.85 inches with the M118 military ball. There were no malfunctions of any kind.

After the accuracy testing, I decided to try some off-hand shooting to check

out the general balance and feel of the new rifle. The rifle handled just like a slightly larger and heavier M16A2. I expected the AR-10A4 to be muzzle heavy but, in fact, found that it balanced better than a typical heavy-barreled 5.56 mm AR. It seems that the external profile of the barrel is fairly beefy, but the larger bore actually reduces the weight somewhat. Still, at close to 10 pounds, light it ain't!

The first few shots I fired made me a believer in muzzle brakes. The recoil from this rifle was minimal for a .308. I let my partner try it out, and he was equally impressed at the low felt recoil. In fact, he thought it very similar to a .243 in felt recoil. Some of this is bound



This view of the right side of the receiver shows the built-in brass deflector (sure to please lefties), M16A1 style "fenced" magazine release button, and the M16A2 style fully adjustable rear sight assembly.



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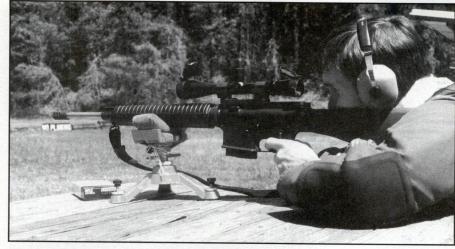
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All accuracy firing was done with a scoped rifle and appropriate rests. The ArmaLite scope mount and Leupold 3.5 x 10 scope combination worked very well.

to be due to the weight of the rifle, but not all of it. There was some noticeable muzzle blast that my partner noticed when I was shooting, but I'm afraid I can't say with certainty that I noticed any myself. I think it's safe to say that there wasn't any significant lateral muzzle blast.

The rifle performed perfectly during the entire shooting session. I did clean the bore between shooting the Federal Gold Medal match and the M118 match ammo, but I did not clean the rest of the weapon at all throughout the remainder of the test. Altogether we put about 100 rounds down range without a hint of trouble. Extraction and ejection were strong and consistent.

The only two areas I could think of that could use some improvement were the magazine and the trigger. I've never been a fan of the stock M16 type trigger system. I prefer a two-stage trigger, as is found on the Garand or M14 rifle. Fortunately, I found that the ArmaLite folks designed the AR-10A4 to accept any modified trigger system that would work in a 5.56 mm AR. I would like to

try the AR-10A4 with ArmaLite's twostage trigger to see the difference. If it is the same trigger as is produced on their match rifle, it should be fantastic.

The other area is that of the magazine. It took me a few tries to get the bolt catch detent depressed on the magazine follower so I could load the second and subsequent rounds into the magazine. Once I got the hang of it, it went very well. But I wish there were a way to get the bolt catch detent to withdraw itself when the magazine was loaded. Maybe a bevel on the underside of the detent would work. It's a small concern, but I was really trying to find something to complain about. This was a hard rifle to find fault in.

It appears that the sequel is better than the original. The new ArmaLite has the modern features of the M16A2, in the caliber of the original AR-10. The handling and performance were excellent and the quality of workmanship was great. For those users looking for the state of the art in .308 semi-autos at a reasonable price, the new ArmaLite AR-10A4 deserves a close look. MGN

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SPECIFICATIONS

Model: AR-10A4

Caliber: .308 Winchester (7.62 mm NATO) Two 10-round mags furnished with rifle. Magazine Cap:

Sights:

Detachable front and rear. Front adjustable for elevation with rear fully adjustable for both windage and elevation.

41.25 inches

Length: Barrel Length: 20 inches (four groove, 1-12 twist) Weight: 9.9 lbs (unloaded, w/o sights)

Manufacturer: ArmaLite Inc. Geneseo, IL (309) 944-6939.

Retail Price: \$1325



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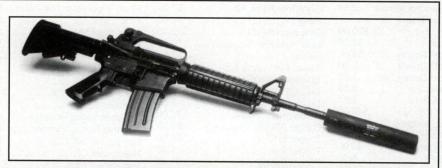
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What's New

by Chris A. Choat

USE MG-34/42 BELTS IN YOUR M60

re you tired of picking up links after shooting your M60? DCC Enterprises has developed a feed tray and cartridge stop replacement for the M60 machine gun that uses nondisintegrating MG-34/42 belts. The parts interchange in about 5 minutes and the modified feed tray/cartridge stop works with M60 links as well as 34/42 belts. MG-34/42 belts are widely available and relatively inexpensive at around \$5.00 per 50-round belt. The belts can be easily loaded by hand or you can use a standard .308 MG-42 belt-loading machine. The conversion unit is priced at \$195.00, shipping included. For more information or to place an order contact DCC Enterprises, Dept. MGN, 259 Wynburn Ave., Suite G, Athens, GA 30601. Phone: (706) 549-5005.



NEW .223 SUPPRESSOR FROM GEMTECH

he M4-96D was designed to meet specific military requirements for a compact, high efficiency, quickly detachable suppressor for the 5.56mm Colt M4A1 (M16) carbine. In addition to the requirements that the suppressor be able to securely attach to the weapon's flash hider without tools, it was necessary that the system remain compatible with all normal military accessories for this weapon, including the Rail Interface System, the M203 grenade launcher, M7 bayonet, and the standard blank firing adapter. The M4-96D suppressor meets and exceeds these requirements in a new physically compact package. The M4-96D, utilizing a totally new concept in baffle design, was computer optimized and is manufactured in the latest state-of-the-art CNC equipment from space age materials. It provides sound reduction in access of 32db in a very small package. The patented mounting system utilizes GEMTECH'S special BI-LOK™ flash hider, either the bird cage or the vortex-generating offset prong type. The mounting system reduces installation and removal to a simple push and twist motion. The BI-LOKTM flash hiders can be used on a variety of weapons allowing the M4-96D to be moved from weapon to weapon quickly and easily. For more information on this remarkable new suppressor and mounting system contact GEMTECH, Dept. MGN, 15005 N. McFarland Creek Road, Boise, ID 83703. Phone: (208) 939-7222. Fax: (517) 784-0344.

NEW "SHORTIES" FROM M.A.D.I.





ilitary Arms Depot International, has just introduced two new "shorty" rifles. The first is their AK-74U under folder. This conversion on an AK produces a weapon with an overall length of just 19.5 inches with the stock folded. The conversion includes their new AK-74 flashhider and the gun cycles at 620 rpm. The second item is their compact M16 designated the CF-16S. The barrel length is 7.75 inches with flash hider and the overall length is 17.75 with the stock folded. Optional barrels are available in 8.5, 10 and 16 inches. These units feature adjustable recoil and cycling rates. For more information contact Lee Hudson at M.A.D.I.. Dept. MGN, P.O. Box 41324, Phoenix, AZ 85080. Phone: (602) 581-2484.

H&K SLO-FIRE HAMMER

new slow-fire hammer for H&K sear guns is now available. This hammer is made from 440A stainless steel and has had the sear notch reworked to produce a slower rate of fire by delaying locking time on H&K sear guns which duplicates the original rate of fire. The hammer works in any 91, 93, 94 or SP-89 full-auto sear gun. For more information contact TCR, Dept. MGN, P.O. Box 17209, Chattanooga, TN 37415. Phone: (423) 870-5172.

German AK-47 ridgeback 7.62 x 39 19.90 \$15.90 \$14.90 40 mds New \$34.90 \$29.90 MG-0430 AK Drum, Chinese, Steel 7.62 x 39 149.90 75 mds

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H.I.S. 75¢ Per Magazine

T53 / T44 MUZZLE BRAKE Tame the Recall Mouster? This Brake does it!l Reduces fet recoil and muzzle climb up Sowets, this Chinese brake incorporates all the features of the original. Designed to fit on all Chinese TSAS & Russian T44s; I enroher serund the front signt, 8 postively locks on with a set screw. Made of high tensile strength steel and machined from solid logost, they're practically indestrubble. You can now enjoy shooting your Nagant Carbine, without the pain of overpowering recoil. #AH-1670

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SKS-74 MUZZLE BRAKE

Copied from the Soviets this Chinese muscle brake incorporates at the features of the original Designed to fit on at SKSs (regular length and Para Models) without use of sole it is their place by beyonet type sock, and book set screw Made of High tensile strength steel and machined from solid ingoits the design will reduce left recoil by 50%. You will enjoy shoot your SKS more than event # 41-1669

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BELTED 30.06 BLANKS

Attention Re-enactors, and Browning 1919 owners. How about original FN or Israeli Non-Corrosive star crimp bulleted blanks. all factory packed on disintegrating links? 250 Rounds per G.I. .30 Caliber can and shiny as the day it

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Can of 250 SALE This Month Only!

AM-0480-C250 F.N NC / Berdan

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steel core. BLACK TIP G.I. ammo. Super clean lot - - great stuff for all you rock crushers. 250 rounds per .30 Cal G.I. Can Can is like new G.I. hinged lid type #AM-0485-C250

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ust arrived, a new, clean lot of non-corrosive 30.06 Ball ammo Manufactured by the world famous firm Fabrique Nationale for the Belgian Armed forces, this fodder has been stored in controlled storage depots and is in perfect condition. Packaged in 250 round, plastic lined .30 cal ammo cans, this stuff's perfect for long term storage, resale, or immediate shooting . #AM-0447-C250

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(reloadable), Non-Corrosive and on M60 Links! Nickel plated bullets are really easy on your bore. 50 Rounds per box, Case of 1600 rounds. #AM-0506-C1600

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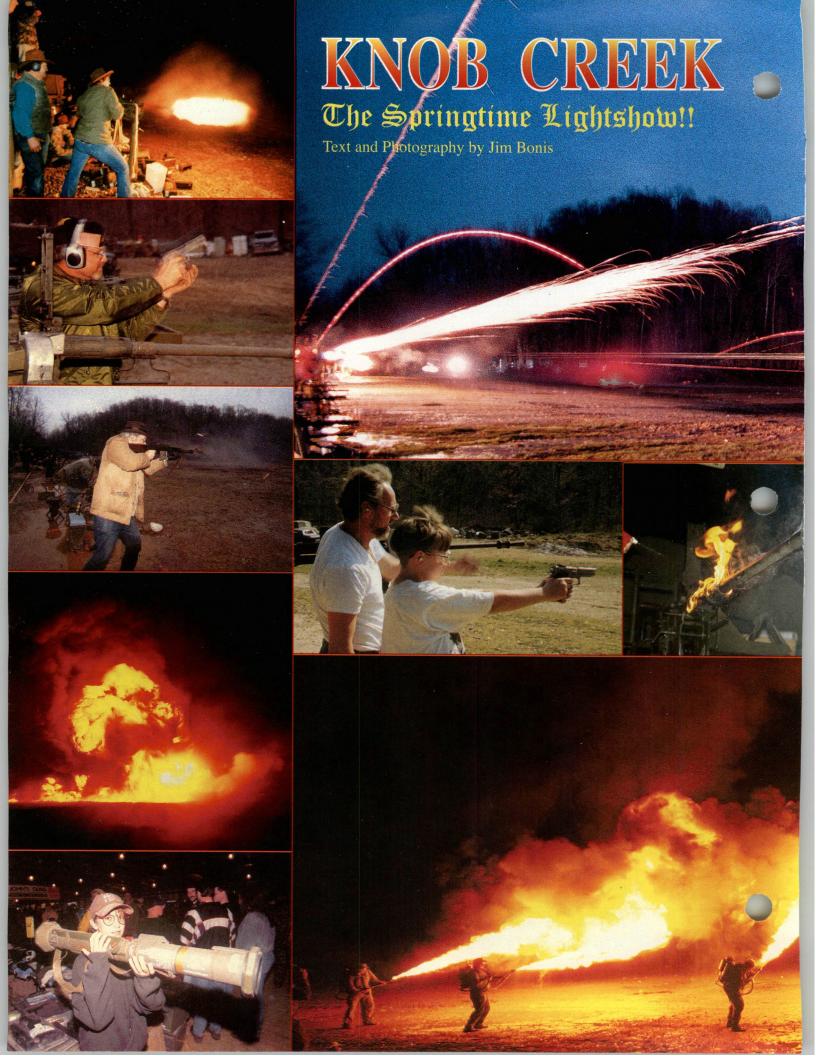
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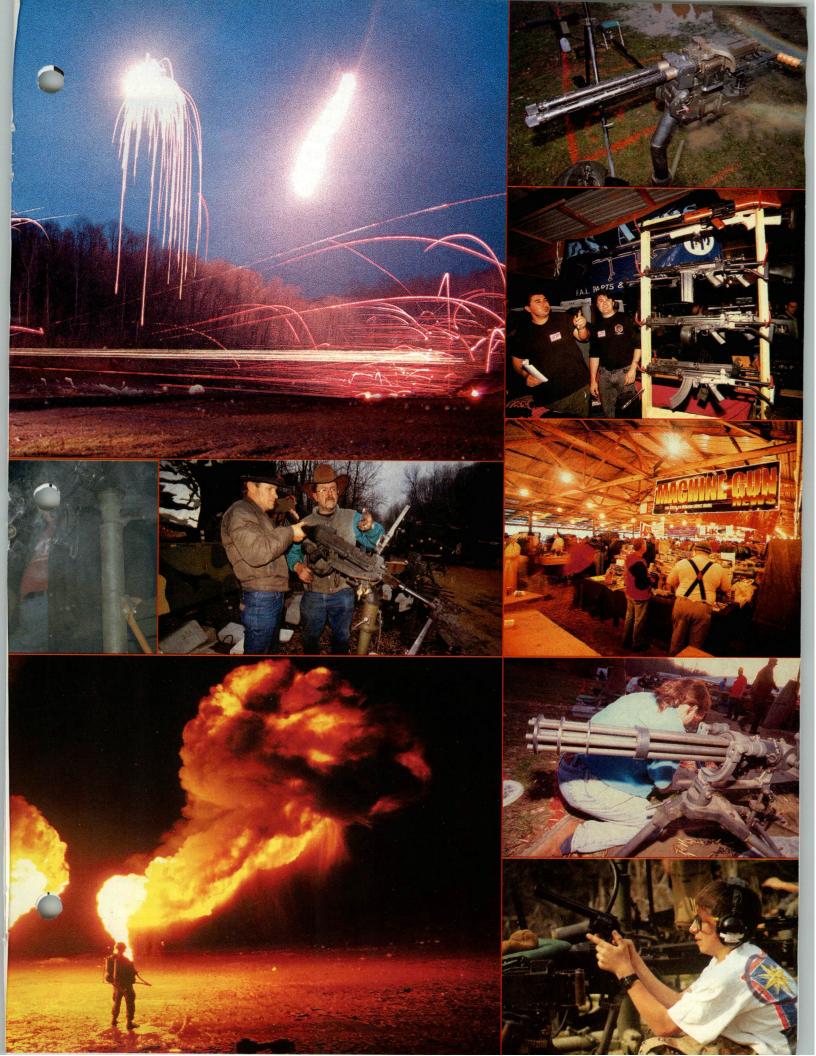
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KNOB CREEK — SPRINGTIME '96!

f you've never attended an event where people get together and shoot machine guns for the pure and unadulterated fun of it, you're in for a treat. When the entire firing line erupts, there is an anthem of sound like nothing else in the world. It's the spring shoot at Knob Creek!

Twice a year, on the second weekend in April and the second weekend in October, the enthusiasts of the full-auto arts conduct a Haj to the Mecca of Machine Gunning. An inauspicious old gunnery range near West Point, Kentucky is a well-suited venue. In 72 hours, several hundred thousand rounds will fly down range.

The firing line consists of about 60 positions, all sold out months in advance. Mounted on tripods under dusty tarps is a history lesson of the last hundred years of weapons development: early BARs, Potato Diggers, Ma Deuce in a dozen variations, Browning .30 cal shorties, MG-34s, MG-42s, AKs, M16s, MACs, Steyrs, Stens, Swedish Ks, and hundreds more you never knew existed.

When the firing line isn't hot, you can take out your ear plugs and wander about one of the best gun shows on the planet. If you don't mind a little dust, you are rewarded with a 400 table selection of the finest weaponry still available to free civilians. Over the course of the weekend, 30,000 people will walk through the warm Kentucky woods and into this pole barn. And many of them will walk back out the proud owners of obscure gunsites, handgrips, barrels and odd pieces of stuff that are a celebration of the right to engage in the hobby of one's choosing.

The sport of action full auto takes place on another range at Knob Creek. (See the full report on the NFA sanctioned full-auto matches elsewhere in this issue.) These highly supervised matches are a great way to sharpen one's machine gunning form and are an enormous amount of fun. Hailing from the Peoples Republic of New York, my own full-auto skills are decidedly lacking. It was tactfully suggested that I should stick to shooting my Nikons.

For the less ambitious are an assortment of "shoot what you brung" events utilizing everything from WWI era bolt guns to the modern semi-autos so feared by today's media. The sporting purpose of these guns looked pretty obvious to the competitors. The running and shooting was kind of a Biathalon on steroids, and if you are not in shape, you feel it.

The main event is the Saturday evening "night shoot." This consists of a magnificent display of tracer fire and explosions of dynamite and diesel fuel. Throw in a few flamethrowers and you have a pyrotechnic extravaganza. Match this with 60 guns pouring thousands of rounds per minute, and you have an event that leaves liberals apoplectic. Only in America! The roar of the machine gun is not just a spectacle, it is an Anthem of Freedom, a glorious reminder that in this great land, the *people* still have some liberty. And while we do, Knob Creek is something that any gun lover will find a once-in-a-lifetime event.

Knob Creek Gun Range

690 Ritchey Lane Westpoint, KY 40177 (502) 922-4457 Next shoot October 11, 12, 13



The Machine Gun Dealer's Bible

Having a license to deal in Title 2 weapons is one thing, getting the proper information is another. Fortunately, there is the *Machine Gun Dealer's Bible*.

From the space to store your essential original documents, to the specially-designed bound record book, to the resources

section, to the copies of all of the federal forms that can be taken out for use or photocopying, the *Machine Gun Dealer's Bible* is meant to be a working tool, plus part of your daily business. The three-ring binder format allows the insertion of update packages when the *Machine Gun Dealer's Bible* needs a revision.

If you're already a dealer or an FFL, who is contemplating becoming a machine gun dealer, you will have an easy step-by-step guide to refer to. From getting a license to actually doing business, the *Machine Gun Dealer's Bible* is a hands-on reference guide that is available anytime you need it. The *Machine Gun Dealer's Bible* will save you a lot of aggravation, time and money.

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IMA IMA

BRITISH WW2 ISSUE STEN MKII **SMG PARTS SETS**

Long unavailable, these are complete parts sets for the famous WW2 Sten Markll Sub-Machine guns WITHOUT RECEIVER TUBE. All parts supplied including the detachable shoulder stock and magazine.

Sten MkII parts sets \$149.95 (QB1000) Or buy three parts sets for . . \$400.00 (QB1001)

BRITISH WW2 ISSUE STEN MKV SMG PARTS SET

Never before available other than on a very limited basis, these are complete parts sets for the WW2 Issue Mark V Sten submachine guns WITHOUT RECEIVER TUBE. All parts supplied including the detachable wood shoulder stock and magazine. Very scarce.

 Sten MkV parts set
 \$249.95
 (QB1002)

 Or buy three Sten MkV parts sets for
 \$650.00
 (QB1003)

OPTIONAL EXTRA: EARLY STEN MKV WOOD FORE-GRIPS

Wood fore-grip assemblies were only fitted to the earliest Sten MkV SMGs produced and were soon discontinued after WW2. These made Fore-grip Assemblies return our Sten MkV parts sets to their WW2 configuration. Wood fore-grip complete with mounting ring and screw.\$24.95 (QB1004)

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- 1. No C.O.D.'s.
- Certified check or money order. Personal checks held for clearance.
- Minimum order on Credit Cards \$20.00.

 NEW SHIPPING RATES: For the 48 contiguous states please include \$5.00 for the first item, \$1.00 for additional item. For Alaska, Hawaii and Canada please include \$6.00 for the first item, \$1.50 each additional item. Any item may be returned within five days for a full refund
- if in the same condition as shipped. Buyer pays shipping both ways.
- 6. N.J. residents must include 6% sales tax or copy of resale
- 7. Allow 3-4 weeks for delivery.

NEW TELEPHONE SERVICE "HOT LINE" FOR VISA & MASTERCARD ORDERS, 908-903-1200

INTERNATIONAL MILITARY ANTIQUES INC. P.O. Box 256, Dept. MGN, Millington, NJ 07946 OR ORDER BY FAX: 908-903-0106

DEMILLED 3.5" "BAZOOKA" ROCKET LAUNCHERS

Developed at the end of WW2, these are the two-piece 3.5" M20 series Rocket Launchers that saw so much service in the Korean War and since. Demilitarized to BATF specifications by cutting a single boresize hole in the rear tube section with a cross bar fitted across the bore to prevent loading. Fabulous display items, these really are impressive with trumpet ends, shoulder stock assembly and folding op-

The Allied "PANZER FAUST"

.....\$149.95 (QU1000) Or buy three for . . . \$400.00 (QU1001)

Shipping & handline for each Bazooka is

U.S.M1 THOMPSON SUBMACHINE GUN PARTS SETS

hese are fully original U.S. M1 Thompson parts sets with SEPARATE firing pin assemblies produced before the later M1A1 "fixed" firing pin model. All parts except RE-CEIVER in Very Good/Excellent condition, complete with\$250.00 (XU1605) 30-round magazine.



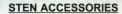




RUSSIAN MAXIM SOKOLOV MOUNT

Only a FEW in stock. Highly venerated mount providing a sturdy firing platform, easy portability and foldaway features. These mounts carried maxims and other M.G's through WW1 & WW2. With a little imagination you can adapt this mount to your Browning or Vickers M.G,. etc. Excellent condition.

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.....\$9.95 (BS2000) Sling Bayonet w/scabbard for MkII only . \$49.95 (YB1002)

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VICKERS MG LOCK ASSEMBLY

Just located a small lot of NEW CONDITION Vickers water-cooled MG LOCK ASSYs. Ready for installation. \$49.95 (QV1000)

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IMA has found a small lot of vertical '28' foregrips. A highly desired accy. for your firing or display '28' Thompson; our grips come with the retaining screw. These are not the flatsided repro's on the market but are the classic smooth, rounded grips \$24.95 (XU1025) (or) If purchased w/a Thompson kit



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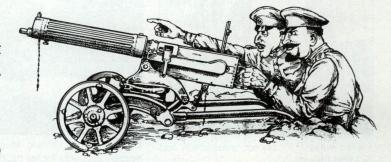
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The Spring '96 KCR SPLASH, SHOOT and Slip Competition

by Dan Varner photos by Jay Bazzner

water-logged matinee would best describe the rain-abbreviated spring subgun match. It was a case of the weather going from idyllic through Friday to obscene on Saturday. Knowing what we know, we had anticipated some interference from the elements and designed a semicovered stage. The course was Ed and crews' reworking of our first low light stage "reactor room." This interpretation included two new ideas. First an aggressive slider (no, it doesn't try to sell you life insurance) and something you all have been asking for, a burst-fire target, Mr. Flipper. The shooter would start outside the new and enlarged shoot house and on signal run about forty feet and enter the low light area through the front doorway. Once inside they would be confronted by a target array behind a lexan window. The only way to engage



Perfect weather Friday for construction and RO field training.

the mixed array of IPSC silhouettes was through the glove holes in our simulated "hot room." The room itself was illuminated by a low intensity red light, and just to keep it interesting, the targets had to be engaged by indirect fire. The shooter would through the window while firing through the glove ports. Once the bad guys in the reactor room had been subdued, it was through

the door on their left to meet Mr. Slider.

The slider was activated by opening the door and his path of travel was across the room full of no shoots, right towards the shooter. The slider would come to rest behind a wall to the shooters right and would no longer be accessible. Oh yeah, Mr. Slider was carrying a hostage, too. Initially there were two techniques for dealing with this problem: the conservative—stand in the doorway and shoot between the standing no shoots, or the aggressive—charge into the room and deal with him at near-



Longtime KCR Classic Match competitor, Staale Johannessen, prepares for his trip through the reactor room.



A more than slightly soggy Steve Fox is about to run Mike Sawyer through the course.

ly point blank, so you could get onto the field array and hopefully some dry clothes.

At the back door the shooter had two arrays to deal with. On the right was a mix of shoot steels and paper no-shoots at varying distances from forty to seventy feet. To the right Mr. Flipper, our burst fire target. Mr. Flipper is an IPSC silhouette that when activated appears and disappears in about a second. Too quick for mere mortals, you say? Ah, not when your packing a real full-auto lead flinger. Lots of lead in the air real

quick and dense is what this game is about. Messrs Mendenhall and Weaver got the idea before the match had even started in the first squads walk-through. Their technique was straightforward. Tag the pepper popper on the right that activated Mr. Flipper and keep the hammer down, swing slightly to the left and let Mr. Flipper rise up into a swarm of angry lead bees. Of course,

KCR Open Subgun Match			
1. Malcome Davis	29.2	CAR 9 mm	
2. Jim Weaver	37.74	M16 9 mm	
3. Monty Mendenhall	38.18	M16 9 mm	
4. Karl Brigger	39.44	MP5	
5. Mike Sawyer	48.00	Uzi	
6. Mike Sawyer	50.36	Uzi	
7. Bill Owenby	51.20	MP5	
8. Richard Turner	51.51	Colt 9 mm	
9. Paul Winters	52.10	SDW-16	
10. Tim Colby	58.90	M-11	
Top Woman - Kim Scofield	95.71	MP-5K	

	• •

Mike Miljan on the steel and paper string.

KCR Classic Subgun Match			
41.01	Swedish K		
50.63	Swedish K		
56.18	S&W 76		
56.27	Thompson		
60.9	Port Said		
	41.01 50.63 56.18 56.27		

being careful not to go too far left and get into those steel no-shoots we put there. The time stopped when the last target was defeated. Too bad the match didn't actually go that smoothly.

It all started first thing Saturday when we put out the field targets. Somehow, some way, between dusk on Friday and dawn on Saturday, six of our brand new steel targets and their stands went walk-about. This necessitated an impromptu redesign of the right-hand field array so that we would have the required number of targets and arranged so there would be no shoot-throughs. Initially, this array was to be all steel. Now we were seriously short of good steel targets. Bill Mees assembled a work crew and constructed some new IPSC target stands and with help, literally designed a new array, incorporating the original intent while avoiding the problems usually encountered with mixed steel and paper. A great job but it had cost us almost an hour we didn't have to spare.

The weather was already starting to deliver on its threats. The first squad walk-through was ad-libbed through a light drizzle by Bill while we began covering the paper targets with clear trash bags to keep them dry. As Bill began running the second squad through, we encountered another problem. The rain was increasing in intensity and water was beginning to pond on the roof of the low light area of the shoot house. A recess was called at the end of the second squad to reinforce the roof and put down some straw to help soak up some

of the water on the runway into and just inside the house. A thoroughly waterlogged Bill Mees was replaced by an only slightly dryer Steve Fox and the third squad was off

and splashing. Twice during this squad the match was interrupted by the need to replace waterlogged targets, giving up more time we didn't have and the rain came a little stronger.

About two shooters into the fourth squad, Dave Goodsell took over ROing for Steve who had to drain the water from his boots (literally), and I took off to the range office to tell Kenny not to sign anybody up for the fifth and sixth squads or we would be shooting them from his long boat. On the way up, I met Josh who informed me that one, the creek was rising rapidly and two, severe thunderstorms were approaching this area. Yep, nothing but good news today.

About the time I finished giving the sitrep to Kenny's bride, my radio link to the subgun range went off. Although the radio reception inside the range building is poor, the words slipped, fell, and first aid were unmistakable. While escorting a shooter through his run, Dave had slipped on a now bare patch outside the door that activated the slider, and ended



Jim Weaver competed with his Swedish K in the classics.

up doing the splits. After attending to Dave, we surveyed the situation. The result was that the rain had overcome all our planning and preparations. The footing was gone. In fact, the area just inside the front door and from the "out-the-back" had water standing in them. The match was through for the day. To make matters worse, the next squad up contained some really heavy hitters who were much better equipped for inclement weather. But in the cold rain of reality, the risk of accidents was just too high to continue. At that moment I felt about as popular as a skunk at a picnic.

As we were packing up for the day, Jan Cervani who had steadfastly main-



Tim Colby putting another unusual gun (M-11) in the top ten.



Staale Johannessen addressing the hostage situation in the reactor room.

tained her post with registration and scoring informed us that if worse came to the worst and the match could not be finished the following day we were one shooter over the 50% mark and it would be an official match. Thanks, I think?

About an hour later, while roaming around the range building looking for a warm dry spot to hide in, I was grabbed up by Tom Carpenter, Ken Hackathorn and the the rest of the aborted fourth squad and hustled off to a semiguiet corner. Initially I assumed they were going to lynch me, which at the time, as wet and miserable as most of us were, sounded pretty good. Instead, they shared a host of very good ideas on how to stay ahead of the weather. Mr. Maxberry suggested laying down coarse cinders in the house to improve the traction. Instead of becoming surly and indignant over having the rug pulled out from under them, these gentlemen were willing to share their insight and experience in a constructive and friendly manner to help improve our matches, Thank you. Those who did get to run the course did have some interesting runs. The overall match winner Malcome Davis blew through in an extraordinary 29.2

seconds with a perfect run. Jim Weaver splashed into second place with another perfect run with his friend Monty Mendenhall just about half a second behind. Fourth place was claimed by Karl Brigger. With the first Uzi in the top ten in quite a while, Mike Sawyer captured fifth and sixth. Classic was a continuation of the Swedish K domination. Monty

Mendenhall swam and shot to first place with Jim Weaver close behind. Bill Owenby and his Swedish K variant, the S&W 76, secured third with Mike Miljan and his mighty Thompson a scary close fourth. Joe Carrere dog paddled to fifth place. Mrs. Kim Scofield with her MP-5K was the top woman shooter edging out Dawn Deichman.

We're still looking for a way to suitably reward our range staff who elected not to shoot the course in order to get the preregistered shooters through. When you work as hard as they do to set up the match, which includes building the props and then continuing on through



Woman shooter runner-up, Dawn Deichman.

some absolutely wretched weather to provide the shooters with a first class match, a solid gold MP-5 would barely be enough. (And way outside of budget.) What's up for fall? As for the for match—recycling! That's right, we are going to break from tradition and reshoot REACTOR ROOM II. Oh, rest assured that there will be some changes, but it was just too good a course to throw away, especially when those who worked so hard on it never got to shoot it. So keep working on your burst-fire control and we'll see you at the creek.

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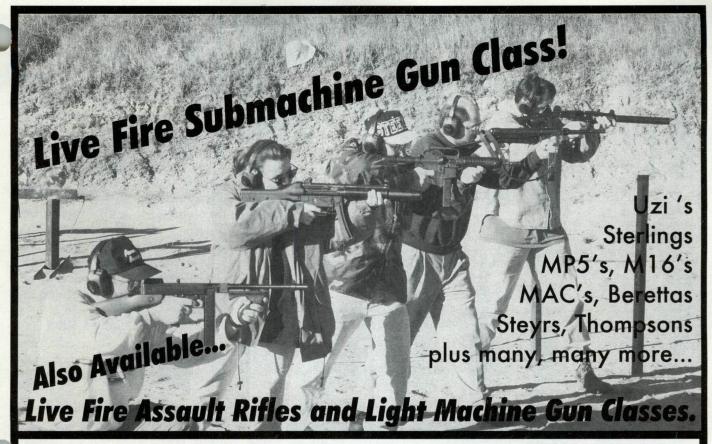
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tan Andrewski and I have talked about building Bonnie and Clyde guns for about two years. We wished to research the history of both the making and use of this unusual historic firearm. Our final goal was to authentically reproduce the Barrow whipit.

Even though Class 2 manufacturers like Roger Small of Scattergun Technologies produce much better finished whipits today, what Stan and I wanted to do stands apart from the modern guns. We wanted to cut a limb off the whipit family tree, plant it, and see what would grow. Research is the key. Our mission stands as both straightforward and simple. At mission's end, we wanted to know what Raymond Hamilton and Clyde Barrow knew. Simply put, we pursued lost knowledge.

Barrow/Hamilton gun cache seized near Howe, Texas. Photo: Dallas Public Library.

by Rick Cartledge

The replicated whipit would teach us things we did not know. As the reader will gather from a later section of this article, we have already learned something from Clyde Barrow's intriguing gun. What follows charts the path that will lead us toward mission's end. Every mission begins with the first step. On this one, the initial footprint belongs to Mr. Stan Andrewski. Stan will replicate Clyde Barrow's second and last model: the suspended whipit gun. Before we get to the work at hand, the suspended whipit needs some introduction.

The Checkered Past

South of the Mason-Dixon and West of the Mississippi, the sawed-off shotgun gained favor. Southerners and Westerners made it a game getter and combat weapon long before North fought South. They created the whipit gun when they took the sawed-off shotgun one step beyond. The term "whipit" comes to us from the Old West. It refers to a shotgun chopped severely both fore and aft. The suspended version of the whipit came to life in defense of the Mormon Church. The modern day suspended whipit comes from Clyde Barrow. Though a fairly inept bank robber, the Texas Rattlesnake showed considerable skill as a gun innovator (see MGN March '96).

Clyde Barrow crafted his first whipit in 1932, an odd ball gun without a suspension system. Early on both he and Bonnie may have had a pair of rather pathetic single barrels. Seeing the limitations of his first whipit, Clyde wanted more capacity and speed to hand. His 20 ga. Remington 11s appeared in late 1932 or early 1933, predating the infamous "scattergun." Clyde hung one of the chopped 20s from a strip he cut from the inner tube of a 1931 Ford. This gun



lyde's #2 Whipit

"The Street Cammon"



Raymond Hamilton whom Sid Underwood dubbed "The Chicken Fried Cagney." Photo: Dallas Public Library.

stands as the first modern suspended whipit. Clyde's second suspended whipit system comes from the Clyde Barrow and Raymond Hamilton reunion.

When contacted by Ray's brother Floyd, Clyde engineered the Eastham Prison Farm crash-out. On January 16, 1934, Ray and others escaped under covering fire from BARs wielded by Clyde and James Mullen. The Eastham crash out reunited the former partners in crime. Ray and Clyde once again ran together until personal animosity drove a wedge between them. Raymond Hamilton packed up his girlfriend and part of the swag after falling out with Clyde. The blondhaired gunman left the Barrow gang at Terre Haute, Indiana on March 6, 1934. Law officers captured Clyde's second and last suspension system when they sacked up Ray Hamilton on April 25, 1934, outside Howe, Texas.

Ray Hamilton ran with Clyde both early and late in his criminal career. Ray was not with him when Clyde found the big sleep at Gibsland. Sid Underwood dubbed Ray "The Chicken Fried Cagney" in his new book Raymond Hamilton — Depression Desperado.

A vintage photograph of the Barrow/Hamilton gun cache seized at

Howe, Texas accompanies this article. In this photograph readers can view Clyde's simple but effective suspension system. It consists of a harness leather loop tacked to the butt of a cutdown flatback Browning 12 ga. This writer contributed the vintage photo, along with Tom Swearengen's analysis, to Sid's excellent book.

Though Barrow and Hamilton ran together, their skills dif-

fered greatly. Each learned from the other in the roadside college of crime. Ray Hamilton was by far the better bank robber, a dedicated crook. Clyde Barrow was a skilled gunman, driver, and criminal guerrilla fighter on the run. Tom Swearengen, author of World's Fighting Shotguns, states, and this writer agrees, that Raymond Hamilton would not have had the sense to know what guns to steal. Clyde Barrow, on the other hand, became a kid in a candy store once he kicked in the door of a National Guard Armory. Clyde knew exactly where the red jawbreakers were. Readers should chip in stone the following about the gun work by any of Barrow's associates. Either the hand or the mind of Clyde Barrow was there.



Clyde with Bonnie and prairie belt in the Spring of '34. Photo: Dallas Public Library.

Atchisson. Browning's long recoil shotgun uses the firing cartridge energy to cycle the gun. Fabrique Nationale first produced Browning's Automatic 5 in 1903. The robust A-5 still enjoys continuous production today. John Browning licensed Remington Arms Company to produce the American version in 1905. The Remington differs from the FN in safety location and pin/screw substitution. It functions identically and just as reliably. Remington produced the sporting shotgun in a number of gauges and the Riot Gun in 12 ga. Clyde Barrow cut up the former. When Frank Hamer picked up State Trooper Manny Gault on a Houston street corner in April 1934, he handed Gault the latter.

Stan The Man

When Stan and I set out to replicate a Barrow suspended whipit system, we searched for either a 12 or 20 ga. Clyde had crafted a suspended whipit from a 12 and a 20 ga. Auto 5, respectively Browning and Remington. We did not wish to chop up a museum piece. We looked for a shotgun that functioned well but whose finish had seen better days. We both knew the old saying "The best way to make a Browning gun stop functioning is to run it out of ammunition." Mr. Andrewski proved the better hunter. He located a suitable shotgun at the North Country Shoot. The gun being a Remington 12 ga., we went with replicating the Barrow/Hamilton suspended whipit. At first, we planned to replicate the gun exactly as captured and leave it crudely cut and finished.

Fortunately, Stan had a better idea. Among the many interesting things in the Atchisson/Thomas background material, I ran across this fact. John Browning stated that he made minor adjustments to his shotguns depending on the size and force of the load. When talking to Stan, he echoed this same caveat. My learned anonymous source gives Clyde Barrow high marks for gun engineering. The Barrow whipits stretched the envelope of Browning reliability to its limit. A replica would do the same. When altering stock guns, this writer prefers to leave it to a Class 2 professional. The only challenges I want from a new gun are hitting the target and picking up the brass. Simply put, first-class pros have forgotten more about gun making than many of us will ever know.



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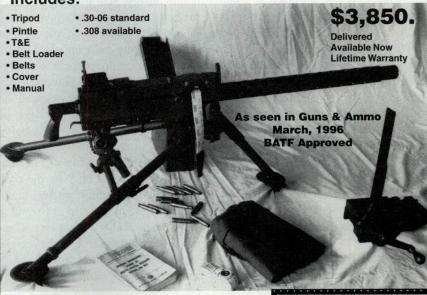


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Remington 12 ga. Model 11 Riot Gun. Photo: courtesy Tom Swearengen.

The Doctor Operates

In the following, the reader and the writer gain some special insight. Along with pictures, Stan sent a micro-cassette wherein he described the gun-making process and gave some cogent comments. Long known for his fine work crafting Title 2 weapons and restoring antique machine guns, Stan brings something else to the table. He appreciates, in the best sense of the word, both the craftsmanship and functioning of fine weapons. In this section, he allows us to look over his shoulder while he recreates the Barrow whipit. He tells us how he crafted the gun and passes on some valuable tips and observations.

As stated earlier, we did not wish to destroy a museum piece. A fine Remington 11 commands a like price today. It has taken its rightful place as a definite collectable. When Barrow sawed up the A-5s in the 30s, they waited, new on shelves, for sale to anyone. Clyde Barrow chose his shotguns with the same sense of purpose that he chose the V-8 Ford. First, he wanted guns that he judged both reliable and available. Second, he selected the A-5 to extend capacity and aid multi-shot accuracy. These shotguns served as tools of the trade. Raymond Hamilton and Clyde Barrow chose the career path of crime. Shotguns occupied a large and prominent shelf in the Barrow/Hamilton toolbox of survival.

For this Barrow whipit, Mr. Andrewski started with a standard Remington Model 11 in 12 ga. The gun's internals functioned well. Due to less than perfect storage, the exterior surface suffered a bit. The gun measured 48 inches in stock form. Stan studied the original Barrow/Hamilton gun cache picture en-

hanced by Tom Swearengen. He then took his best estimate of the gun's length. He shortened the barrel by 12.5 inches and the butt stock by 4.5 inches. The resulting whipit gun measures 31 inches overall. Stan commented that he likes the look and feel of the finished product. He found the Barrow whipit functional, very concealable, and practical. He remarked that, though much shorter than a standard gun, the whipit still feels like a shotgun. Stan then echoed something that this writer has felt about some of the new cutdown shotguns. They just feel too short and they are difficult to shoot. The Barrow/Hamilton gun, on the other hand, feels like Goldilocks' porridge and hits like a sledge hammer

Since the recreated whipit gives a nod to history, Stan stuck to the old time methods varying only when necessity dictated. He stated that if one crafted the whipit the way the gangster gunsmiths did it, one could make a pretty nice piece. He employed no powered tools or power equipment. Stan selected hand saws and files that would have been available in the 1930s and employed methods commonly in use at that time. In effect, he "stuck it in a vice, clamped it down, and cut it off." As the project moved along, Stan's professionalism kicked in. He took a step or two that the gangsters probably did not take. Though these steps remain true to the technology of the 1930s, Stan feels that Clyde Barrow probably didn't go to the trou-

Stan first took the gun apart. When he pulled off the end cap, that barrel and fore end slipped off easily. One screw and a setscrew held the butt stock. With these screws removed, the butt stock slid off just as easily. Stan noted that the butt stock had no center screw. Remington had fashioned the butt stock from a single piece of walnut. Stan thought that the extremely sturdy butt stock made an A-5 shotgun the ideal candidate for a suspended whipit. He commented that this aging shotgun came from an era when gun makers built their guns to last forever. Stan labeled this well thought out construction "Old World style craftsmanship." With its Model 11, the Remington Arms Company had upheld the tradition of fine gun making.

With the gun disassembled, Stan took a step that Clyde Barrow probably didn't. He constructed two simple scribes. With one he marked the butt stock and with the other he marked the barrel. He fashioned these scribes from two blocks of wood. He attached a pencil to the end of one and drove a nail through the other. These scribes accurately marked the parts to be cut before employing the saws. On the barrel, he used a hand saw and a selection of files. Stan commented that someone with a knowledge of hand tools could do a very nice job using these old methods. Using several file sizes allows the maker to smooth the end cut and shape a slight crown to the barrel. Stan then scribed the butt stock with the pencil scribe and cut it. Then, in deference to time, he employed the only power tool in the whipit project. He took the cut butt stock into his shop and smoothed the end on the belt sander. The sander yielded a very smooth finish and saved time. Lastly, he worked the metal parts with 4-0 steel wool to give the gun an interesting patina. The whipit now appears gracefully aged. It looks as if it might be a newly discovered gun that Clyde Barrow

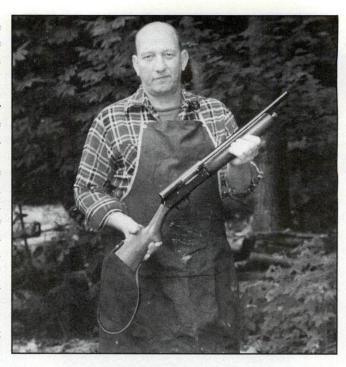
Mr. Browning's Shotgun

Every General that you have ever heard of takes second place to him. He allowed more Americans to come home safely to their families and breathe the clean air of freedom than any other man, though he commanded no great army. He was a God-fearing inventor born to one of the founding families of Virginia and converted to the Mormon Church. Legend says that he first discovered his cartridge-driven operating system while hunting in his beloved Utah. He noticed that the muzzle blast blew the tall grass apart. He reasoned that he might harness the energy to gun function. The museum in Ogden, Utah that bears his name gives forceful testament to his genius. Though he left us long ago, his legacy endures. He gave us the gift of simple, robust, reliable firearms. His name was John Moses Browning.

By the early 30s both sides of the law knew the value of shotguns at close range. Shorter, more maneuverable guns gave one an edge. A capacity of more than two honed the edge. In most hands, an automatic fired second-shot hits faster than a slide action. Interestingly,

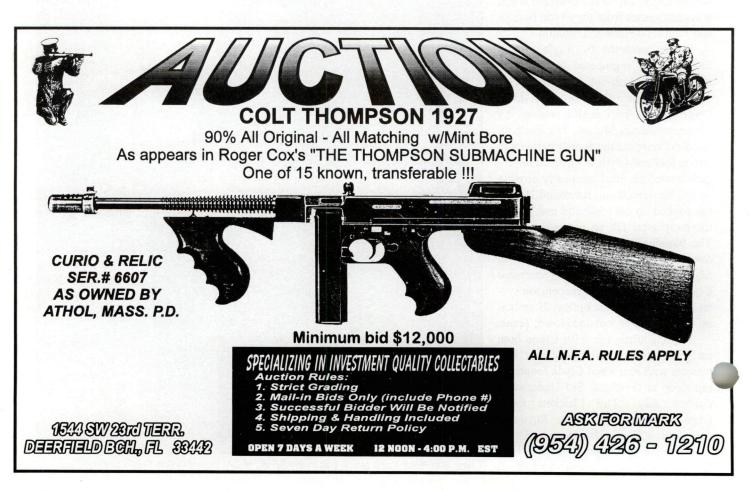
both sides in the Barrow case chose the same John Browning design. With that design, both sides opted for short length. Clyde Barrow cut up a Browning 12 ga. and at least five Remington 11s in 20 ga. Capt. Frank Hamer, arguably the most capable and heroic figure in 20th Century law enforcement, packed a Remington Model 11 Riot Gun in 12 ga. when he set out to track Clyde Barrow. The Remington 11 is essentially

the Browning Automatic 5. Both the Texas Rattlesnake and the legendary Ranger knew their guns. Their lives depended on reliability. Both of these able adversaries selected the precision steel of John Moses Browning.



Stan Andrewski displaying "The Street Cannon."

Given that other more technically oriented writers can explain function better, the following gives a brief overview. This comes from material sent by writer Don Thomas who shared some additional research from Mr. Max



stashed with Floyd Hamilton or Pretty Boy Floyd.

The suspension system presented us with a slight problem. The original Barrow/Hamilton gun hung from a strap made of harness leather. Stan pointed out that most of the harnesses in the North Country still hang on horses. He opted to use part of a strap from a Springfield 03-A3 that happened to be hanging around the shop. He mounted the strap to the top and bottom of the stock using the same method as Barrow/Hamilton. He punched the leather and anchored it with screws. Stan passed along a tip about the screws that also applies to sling swivels. Stan noted again that Clyde probably didn't take this step. Stan suggested drilling the holes to screw size then countersinking them slightly. He did this on the recreated Barrow whipit. He explained that the countersinking helps eliminate the cracking and chipping that sometimes occurs.

When the work ended, the fun part began. Stan took the nouveau gangster gun out for a test drive. From the accompanying photographs, one can see how easily the system functions. Though one could only call Clyde Barrow's system crude, it performed well the task for which he designed it. Stan stated the gun swung up in a surprisingly easy fashion. Stan pronounced the whipit formidable, very deadly at close range. The highly maneuverable smooth bore so impressed Stan that he dubbed it "The Street Cannon." From the way the gun handles, Stan could see why Clyde Barrow chose to build it.

One should bear in mind that this whipit measures larger than most seen today. In recreating this whipit, Stan Andrewski may have produced a very interesting side effect. One has to remember that Clyde Barrow created this gun to play in a game where there were no rules. Though crude, the original worked very well. Stan observes that the same is true of the recreation. Study of this gun, particularly by law enforcement, might lead one to reconsider what one wants in a whipit. And why. For my part, I liked Stan's final comment on the gun. He said simply, "It's really fun to shoot." Again for my part, thank you Mr. Andrewski.

The Blast From The Past

Many readers viewed the Discovery Channel's "Rivals" episode "Ted Hinton vs Bonnie and Clyde" which gave a different view of both the law and the outlaws. Keith White (see MGN July '93) contributed notable reenacting. Dallas historian Jonathan Davis gave on-air commentary as well as reenacting the part of Ted Hinton. Though producer Lynn Hill's credits flew by faster than Clyde Barrow's Ford, several viewers spotted this writer, MGN, and "Thompson: the American Legend" there in. Readers should know that Mrs. Vida Ford and Mr. Tracie Hill authorized release of unpublished material to Hearst Communications for this program. What Stan and I have done does not praise criminals. This writer is only giving credit where it is due. The modern law enforcement whipit comes from Clyde Barrow. As I will show in a later article, he borrowed from and improved upon systems that had come before. My learned anonymous source states that Clyde Barrow did not cut up good weapons without purpose. He correctly declares that "Clyde was into winning



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the game." Any pit boss will state that Clyde stayed at the tables too long. In the end, the law both defeated him and learned from him. Out of much evil there came some good.

This Stan Andrewski gun will take its place as a research tool. Shooting 30s style stands as something quite apart from what is done today. As Dan Shea is want to say "Old is not necessarily bad." Tom Swearengen once remarked that shooters before 1946, as a group, just knew more about shooting. They knew their weapons better and were just better at it. Perhaps the truth lies in the fact that so much of their lives and the fate of our nation depended upon the ability to shoot well.

When Frank Hamer talked to A. B. MacDonald in June of 1934, he spoke of "coolness" in gun handling. Referencing pistol fighting, the legendary Ranger declared "Make the first shot count. Just one shot, and that the first one. Take it slow, and cool." Capt. Frank Hamer's long and distinguished career gave worthy testament to his carefully chosen words. The heroic Ranger knew exactly what he was talking about. Fifty-three

armed desperadoes learned Frank Hamer's truth the hard way.

For those who journey to Knob Creek in October, some history awaits. Stan Andrewski will bring the recreated Barrow whipit fashioned by his skilled hands. You may find him in the pole barn at the tables he shares with LMO's Dan Shea. Kenny Sumner states you will find Mr. Andrewski and the whipit at tables B-5 and A-5. Just make a mental note that Stan and the Barrow gun hang out at Browning Auto 5. Drop by and heft some history. As for me, I will be putting brass on the ground or engaging in some of the lively conversation around the campfires. When not having entirely too much fun, I will be looking for materials for what may be our next project. The research continues. By the way, anybody have any old 20 gauge Remington 11s laying around?

Dedication: In Memorium—Joe Pinkston

This article is dedicated to Joe Pinkston, curator of the John Dillinger Museum and author of Dillinger, A Short and Violent Life.

Sources

Stan Andrewski, Stan's Gunsmithing Gunsmithing & Class 2 Repair (603) 746-4387

Jim Foster, Dallas Public Library 1515 Young St. Dallas, TX 75201 (214) 670-1435

Tracie Hill, *American Legend*PO Box 8710, Newark, OH 43055
(614) 345-9777

Roger Small, Scattergun Technologies PO Box 24517, Nashville, TN 37202 (615) 254-1441

Kenny Sumner, Knob Creek Range 690 Ritchey Lane, West Point, KY 40177 (502) 922-4457

Don Thomas, 6695 Ridgemoore Dr. Doraville, GA 30360

Raymond Hamilton—Depression Desperado by Sid Underwood, Eakin Press, PO Drawer 90159, Austin, TX 78709 (800) 880-8642.

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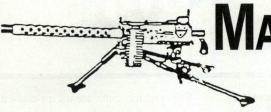
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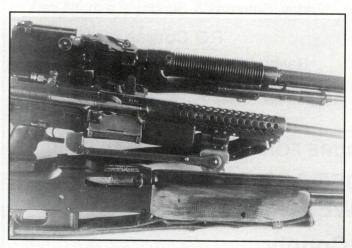
Machine Gun Miscellany

by ROBERT G. SEGEL

utomatic weapons have two basic methods of keeping the barrel cool: air and water. It doesn't take very many rounds through a gun to get the barrel hot. Repeated and continuous fire will quickly get the barrel too hot to touch with the possibility

State of the state

Submachine guns, using pistol ammunition, are air-cooled. Though most submachine guns do not have any special provisions to expedite cooling, these two examples show the use of cooling fins on the barrel. On top is the Reising Model 50 with 14 fins and on the bottom is a Colt Thompson with 29 fins.



A trio of classic U.S. air-cooled machine rifles. On top is the Benet-Mercie Model of 1909 which utilizes 37 cooling fins to assist in drawing heat from the barrel by increasing its surface area. In the middle is the Johnson Light Machine Gun Model of 1941. A protective sleeve with holes in it encases part of the barrel. The sleeve helps protect the gunner from burning his hand and the holes are there to allow air circulation within the shielded area. On the bottom is the Browning Automatic Rifle Model of 1918. Other than a small area where the wood foregrip is located, the smooth plain barrel is completely exposed.

of causing a serious burn if one is not careful. And, in the case of heavy machine guns, one can fire until the barrel starts to glow cherry red, then white hot to almost translucent where the barrel then literally melts down causing irreparable damage. Thus, by necessity, design function, and cooling is extremely important to the reliable operation of an automatic weapon.

Submachine guns are all air-cooled. Since they use pistol ammunition and are personal defense weapons rather than tactical sustained fire weapons, their primary means of cooling is ambient air. Design features such as firing from an open bolt allows air to circulate in the chamber area. Since the round is not seated in the chamber, a cook-off is avoided if the barrel is ultra hot. Sub guns also use twenty- or thirty-round clips requiring "down time" while reloading or replacing clips allowing the weapon to cool a bit between firings. Finally, some models have fins milled into the barrel. The purpose of these cooling fins is to increase the surface area of the barrel, thus allowing more of the barrel to be exposed to the air and more heat can be pulled out of the barrel. The point being is that these weapons, while certainly capable of getting extremely hot under heavy usage, were not designed for long sustained fire. Thus, ambient air is sufficient to cool the gun. The same basic design features hold true for machine rifles, such as the Lewis Gun, BAR and Benet-Mercie, of which they may or may not have cooling fins, even though they fire rifle ammunition. It is interesting to note that the Lewis

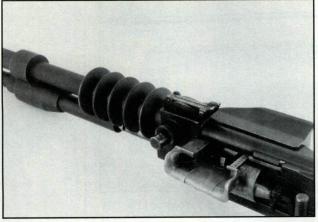


This air-cooled Browning .30 caliber M1919A6 and the A4 series just use a protective sleeve with holes to shield and protect the moving barrel. The holes again assist in air circulation around the barrel and prevent heat buildup.

Gun had an air-cooled radiator system which its inventor claimed sucked cool air in through its radiator casing.

Heavy machine guns pose a different problem though. Because they are using rifle caliber cartridges and are capable of sustained fire through the use of continuous belts, extremely high temperatures can be rapidly attained. Fire-

arm designers know that there is a trade off between air and water cooling. The advantages of cooling by air are that water supply is not a consideration and the weight of the gun is greatly reduced providing greater mobility even though they generally had thicker and heavier



The air-cooled French Hotchkiss Model of 1914 in 8 mm Lebel is easily recognizable by its five large "donut" cooling rings on the barrel.

barrels. The disadvantages are that the gun heats up very quickly and sustained fire can be jeopardized if proper fire control is not observed by the gunner. Cooling fins and cooling rings are sometimes encountered on these types of air-cooled guns. These guns also gen-

erally fire from a closed bolt and cookoffs are a real threat. A solution to this problem is for the gun to have some sort of barrel change feature. While differing in from complexity clumsy, like the Model 1914 Colt "Potato Digger," to the extremely fast and efficient MG42 whose barrel can be changed in seconds, the quick change barrel replacement method is the current favorite of designers.

Early designs such as the Maxim, Vickers and Browning M1917 used water to cool the barrel. Remember that at the beginning of this century when these guns were designed, the tactical use of machine guns was still largely unknown and were generally relegated to a fixed position in support of artillery. Weight and



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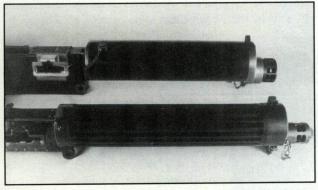
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Heavy machine guns could be either air- or water-cooled. This air-cooled Colt Model of 1914 "Potato Digger" is assisted in its cooling process with 72 cooling fins.



Water jackets on two classic heavies. Top is the U.S. Colt Maxim Model 1904 and the bottom is the British Vickers Mk I. The Colt Maxim water jacket is shorter than the Vickers but it is fatter in diameter. Thus, both water jackets hold about the same volume of water. The protuberances on the muzzle end of both guns have nothing to do with the cooling aspects as they are muzzle boosters. Muzzle boosters redirect a portion of the muzzle blast back onto the barrel face forcing the barrel rearward which then drives the belt feed pawl mechanism. This is typical of all Maxim and Vickers designed water-cooled guns.

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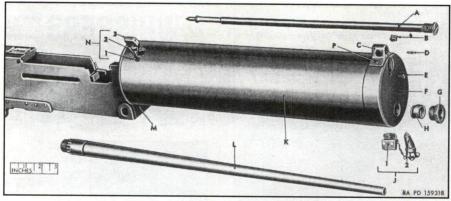
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Drawing showing the internal detail and placement of components for the Browning M1917A1 which is typical for water-cooled machine guns.

water source were not initially considered to be a problem. Also, in cold weather, antifreeze had to be added to prevent the water from freezing when the gun was not in use. Maintaining continuous fire was the challenge and water was the perceived solution.

To keep the barrel cool, a water jacket was fitted around the barrel. It was attached at the trunion and the barrel poked through the end cap. Asbestos packing material was applied to the muzzle and breech ends of the barrel to prevent leakage from the water jacket where the barrel passes through the water jacket. To optimize the available amount of water in the jacket, the barrel lays along the bottom of the water jacket. The water jacket typically holds about seven pints of water. A filling hole was located on the top of the water jacket on the breech end and a drain hole was located on the bottom of the water jacket at the muzzle end. Both the filling and drainage holes had screw plugs to prevent water loss. But just surrounding

the barrel with water to draw off the heat of the barrel produced another problem which the designers had to address: steam. As the water absorbs the heat from the barrel, the water will ultimately begin to boil producing steam and thus steam pressure. Since the fill

and drain holes are plugged, dangerous levels of steam pressure would build up and the result would be a burst water jacket. The solution to this problem was a means in which to vent the steam and pressure build up. A steam escape tube is fitted inside the water jacket running along the top of the water jacket from front to rear. The steam escape tube consists of two tubes: the inner tube and the outer tube. On the top of both ends of the inner tube is a hole. The outer tube. which slides freely on the inner tube is shorter than the inner tube and, as such, cannot cover both holes at the same time. Thus, as the muzzle of the gun is raised or lowered, gravity causes the outer tube to slide over and cover the lowest hole and prevents the water from escaping. The upper hole, which is uncovered, allows the steam generated by firing to escape through to the inner tube and vented out a port in the end cap.

This creates another set of problems. A white, high pressure steam plume develops which could easily be seen by the



Telltale signature steam plume is quite evident when the steam condensing hose is not attached. Enemy gunners would zero in on this in a heart-beat. Big trouble if you lost your hose.

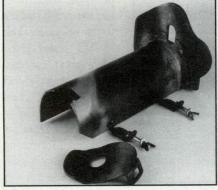


The business end of a Browning M1917A1 water-cooled machine gun. Clockwise from the top. Just under the front sight can be seen where the steam escape tube is located inside the water jacket. This tube connects to the steam escape port which is located at the lower right. The steam condensing hose is attached at this point. Hanging directly down in the center is the cork plug which fits in the steam escape port during transportation to prevent water from spilling out. At the lower left is the drain plug to empty the water from the water jacket. Note that there is no muzzle booster on the Browning since the bolt itself drives the belt feed mechanism.

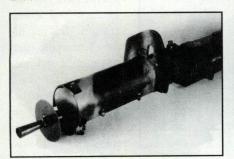
enemy compromising any attempt at concealment and can cause scalding of any support personnel too near the steam plume. Also, as the water in the jacket boils away a replenishment source had to be considered. This problem was solved by connecting a steam condensing hose to the steam port. This eliminated the steam plume and took the live steam and condensed it back into water. This water was held in the water chest and used to replenish the water in the water jacket. To illustrate how quickly a heavy machine gun can heat up, it only takes about 1½ to 2 belts (375 to 500 rounds) of continuous firing (a little over a minute) to bring the water to boil. As an interesting side note, watercooled machine gun crews were often the only quick source of hot water available to combat personnel for shaving, washing and other needs.

Water jackets are vulnerable to combat damage such as bullets and shrapnel and a puncture will cause the loss of water and overheating of the weapon. Though there are patch kits to repair water jacket holes, it is after the fact. In an effort to protect the water jacket, armor was developed for some guns. The armor usually consisted of two pieces which is the end cap armor piece to protect the very front of the water jacket and a larger semicircular piece to protect the water jacket body. Though an admirable idea, the practicality of the extra weight and extra parts to account for caused most water jacket armor to be discarded by gun crews.

On some larger caliber guns, such as the Browning M2 .50 caliber watercooled machine gun, the principle is the same, but instead of just condensing the steam back into water in the water chest, water is actually recirculated back into the gun in great volumes. The Water



End cap and body armor for the water jacket. The front armor is held in place by the barrel and the front sight. The body armor fits up and around the front sight and is attached by clamps underneath. The thicker gunner's face-shield armor with the aiming hole is riveted to and is a part of the water jacket



This 1917 Spandau manufactured German Maxim MG08 is fitted with the two-piece water jacket armor. Note that the large round piece attached directly behind the flash hider is not armor but is also a type of flash hider to help shield any flash escaping off to the sides from the muzzle booster which is located directly behind the shield and in front of the front armor piece.

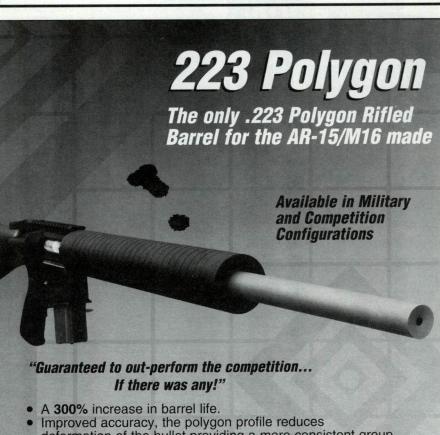
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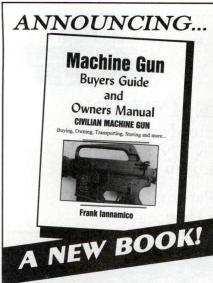
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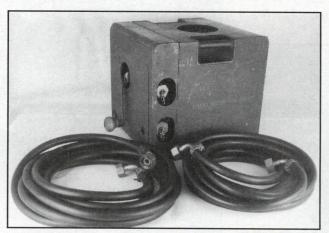


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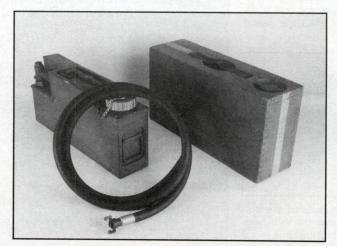
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Various types of water condensing cans and hoses. The hose and can on the left is for the Browning .30 caliber M1917A1. The middle Shell Motor Spirit can and the can on the far right are both for the British Vickers gun along with the steam condensing hose for the Vickers. In World War I, there was no standard issue water can for the Vickers. Instead they used these types of petrol cans. It wasn't until just prior to World War II that a water can was specifically made and issued with the Vickers. The example on the far right is Australian and dated 1942.



Among the largest of water recirculating apparatus is this water chest M3 for the .50 caliber Browning water-cooled machine gun. Holding eight gallons of water, the pump handle and inlet and outlet connections are clearly visible.



Two more types of water cans. On the left is the German Maxim MG08 water can and steam condensing hose. The Germans, in their typical efficient manner, made the water can the same size as their ammo cans for ease of transport. On the right is a water box (tin lined) for the U.S. Colt Maxim Model of 1904.

Chest, Cal. .50, M3 is a hand operated, chain driven, rotor pump mounted in a steel chest with the appropriate inlet and outlet connections and hoses which attach to the water jacket of the gun. The pump is operated by a member of the gun crew while the gun is in operation by turning the crank handle in a clockwise rotation approximate-32 times per minute. This causes the water to circulate from the water chest through the water jacket of the gun and back to the water chest. The water jacket of the gun holds ten quarts of water and the M3 water chest holds eight gallons. Both the water jacket and the water chest should be kept full at all times since this is a closed recirculating system. Steam is generally kept at a lower level because of the volume of water that is circulating through the system

As can be seen, both the air and water systems have their advantages and disadvantages. But as the role of machine guns has changed and been refined over the years. the water system has fallen out of favor because of weight, extra accessories and logistic problems. But for sheer volume of continuous fire, water works best.

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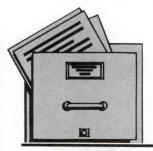
The Browning Machine Gun Video is narrated by Gary Reisenwitz, who is an experienced builder of the BMGs and author of many articles on machine guns. His easy to follow presentation style makes complex technical material easy to understand. Gary's numerous tips, tricks, and pearls will make any machine gun owner's life better.

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TERMS: Please allow six weeks for delivery. All checks must clear before video is shipped. All sales final. Tapes with manufacturing defects will be replaced if returned within 30 days of shipping.

Photograph 1919A4 courtesy of Hayes Otoupalik and Bruce Canfield.



The Forms

by Dan Shea

Reporting of Plastic Explosives

All persons and businesses in possession of plastic explosives must have reported that possession by August 22, 1996. Report must have been in writing, and detailed the amount, location stored, marks or identification, manufacturer, and the name and address of the possessor. This is from Public Law 104-132. 110 Stat. 1214, the "Anti-terrorism and Effective Death Penalty Act of 1996." Contact the ATF Office of Public Information at (202) 927-8500.

t might be poignant to speak a little bit about what is going on in L Australia. Many of MGN's readers there are extremely upset and keep sending in faxes and letters describing the police state that is coming into being in the wake of recent laws. If you have been following MGN, then you are aware of the confiscatory nature of the laws that have been passed in "Oz" since the Port Arthur massacre. Profirearms people are quick to point out that the sicko who killed all of those tourists was firing on unarmed people, with an unarmed police department helplessly standing by as the tragedy unfolded.

The lack of a "Second Amendment" has left a hole a mile wide, and the antifirearms forces have driven a mack truck through it. This is no "camel's nose under the tent." They are confiscating all semi-automatic firearms, including the .22 calibers, as well as all pump shotguns. The government, which has been registering owners for years, has a little list...and they are using it. In Victoria, vans have been set up with vises and chop saws. They are going from community to community and making everyone turn in their guns. They are reimbursed with a government check, according to a predetermined schedule of values. The firearms are then destroyed on the spot. Authorities have 250,000 of these newly banned firearms registered in Victoria alone, and there are estimated to be another 250,000 illegal ones in Victoria. The government is paying for illegal ones as well, in what appears to be an amnesty of sorts. After this moratorium and turnin, felonies will be freely handed out to lawbreakers who hold onto their guns....

Remember that the anti-Second Amendment fanatics in this country are knee deep in what is going on in Australia, my friends, because that is what they want to do here in the states. Don't back off an inch when you have to confront these people.

Questions:

IN JULY OF 1995 I PURCHASED A machine gun from a Class 3 dealer in Florida. In doing so, I paid a negotiated price plus Florida state sales tax. I also paid a \$200 transfer tax directly to the Internal Revenue Service.

In June 1996 I purchased a suppressor from a different Class 3 dealer in Florida. I paid him a reasonable price plus a \$200 transfer tax to the IRS, and no sales tax was charged. The dealer informed me that the transfer tax was a tax within itself; therefore it would be wrong to charge me state sales tax. Who is correct? I don't want to be ripped off, but then again I do not want to be a part of anything that is not within the law.

Would appreciate any information you can give to clarify this for me.

A second question is, while reading the June issue of *Machine Gun News* on page 71 of the article "The Forms" a person asking a question under "Q" states the only NFA weapons that can be owned in South Carolina are suppressors. What other states forbid owning machine guns? If I decide some day to move from Florida, would I have to sell my machine gun before moving out of Florida?

Joe D.

Joe, the transfer tax of \$200 on machine guns and suppressors is federal. It has no bearing whatsoever on your sales tax. The dealer who sold you that suppressor without collecting and paying state of Florida sales tax was in error, unless you supplied him with a resale tax number and are in business to sell suppressors...which certainly appears NOT to be the case. It is not unusual to confuse the different tax liabilities. There is no pertinent federal sales tax, as of yet. By the way, this is not your problem. He was legally bound to collect this tax from you. Unless it can be shown that you conspired to avoid that tax....

There are a lot of things you can do with your machine guns if you move to a nonmachine gun state. Putting them in safe storage is one thing (call NFA Branch of ATF for more information on what is acceptable here (202) 927-8330). States that do not allow general ownership of machine guns by a private citizen are New York, New Jersey, Rhode Island, Delaware, South Carolina, Illinois, Michigan, Iowa, Washington, California, Hawaii, and Kansas. Most of these states have exemptions for manufacturers and dealers. In addition, there are other states that have reporting requirements or regulations allowing only Class 3 dealers.

I HAVE ATTACHED A COPY OF your answer to a reader's question which appeared in the April 1995 MGN.

In your answer, you stated "If you make it yourself, for yourself, without the dreaded characteristics, then you need only mark your name, town and state on it, with a serial number."

I wrote to the BATF asking if a proposed marking would be acceptable. I was told that no markings were required.

I have attached copies of the documents involved for your information. I

would appreciate your response to this as it would seem that your answer was in

Doug R.

DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS WASHINGTON, DC 20226

E: CE: F: TE: EMO

Dear Mr. R.:

This is in reply to the copy of your letter dated December 11, 1995, and received in this office on July 3, 1996. We have no record of receiving your original letter. You ask about marking requirements on a semi-automatic rifle that you intend to manufacture for your own use.

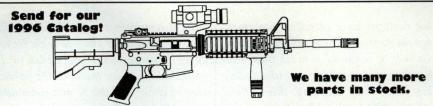
Under existing federal law an individual may produce a firearm for his own use and not for resale provided that the weapon is not a type prohibited by 18 U.S.C. Chapter 44, Section 922(r) or 922(v)(1). There is no reporting requirement concerning such firearm. Further, there are no requirements concerning markings or serialization of such a weapon. However, it is suggested that you contact your local authorities to determine if there are any state or municipal ordinances that would require the weapon to be identified or serialized. If the weapon you plan to manufacture falls within the definition of firearm as contained in 26 U.S.C., Section 5845, all applicable registration and marking requirements of the National Firearms Act would apply.

As requested, enclosed is a current copy of ATF P 5300.4, Federal Firearms Regulations Reference Guide.

We trust that the foregoing has been responsive to your inquiry. If we can be of any further assistance, please contact us.

> Sincerely Yours, Edward M. Owen, Jr.

Chief, Firearms Technology Branch According to federal laws, you do not need to mark the firearms made for personal ownership, as Mr. Owen pointed out. He is, of course, the authority on this issue. He has written this response narrowly, and very specifically on the federal law, as well as the assumption that you will never give the firearm to anyone else. Many of the states require



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(scarce)\$ 160.00	W.R.A\$	55.00
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new G. I \$ 150.00	Gas cylinder, excellent \$	40.00
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Barrel, 10 1/2" 1 in 9, new \$ 185.00	Hammer, IHC \$	35.00
Barrel extension, new \$ 20.00	Op-rod, excellent, S.A \$	40.00
Buttstock A-2 (with spacer) \$ 45.00	I.H.C\$	80.00
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Carrier assembly, AR- 15 Colt \$ 100.00	W.R.A\$	75.00
Carrier assembly, chromed \$ 195.00	R.A.N.M	55.00
Carrier assembly, chloried	Trigger guard, stamped new \$	16.00
Charging handle\$ 20.00		
Handguards, A-2 (round) \$ 25.00	Trigger guard, milled, excellent \$	25.00
Lower Kit (every part to complete	Trigger housing, excellent, original	
YOUR lower receiver) \$ 60.00	finish, complete, S.A\$	45.00
Upper receiver, Colt A-2, large hole,	I.H.C\$	80.00
complete \$ 175.00	H.R.A\$	80.00
MI Carbine	W.R.A\$	65.00
Barrel, chrome-lined with bayonet lug,	Trigger housing, S.A., new, stripped . \$	20.00
	.30 B.M.G.	
gas piston, new G.I. (Vietnam Era). \$ 140.00		40.00
Bolt, round or flat, complete \$ 50.00	Barrel extension \$	
Bolt tool, new, G.1 \$ 35.00	Bolt, .30-06 or .308, new stripped \$	80.00
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some pitting\$ 85.00	Flash hider, M7, for 1919 A-6,	
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Push safety, unmarked \$ 12.00	(for pair)	60.00
Push safety, "EW," NS, EPB \$ 28.00	Lock frame \$	45.00
Selector, new G.I\$ 25.00	Muzzle bearing, internally chromed,	
Slide M2. G.I	.308 or .30-06	50.00
	Sear, new\$	10.00
ondo me, dimindo odomig	Trigger pour	18.00
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Links, new (per box of 20) \$ 1.50	AR-15 Colt, 20 rd. used \$	10.00
Op Rod, new A-1	BAR, 20 rd. new \$	20.00
Sear, new\$ 12.00	H & K 91, 20 rd. steel, used \$	30.00
Forearm M60 E-3 (heat shield) new \$ 75.00	H & K 91, 20 rd. alum, new\$	35.00
	H & K 93, .223, 40 rd., new \$	50.00
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or Winchester\$ 120.00		

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that firearms have identification markings on them, and if you sell the firearm, you will be required to mark them with the above information, notwithstanding this letter. Not marking this Title I firearm with your name, town, and a serial number is begging for trouble.... Title II firearms do require these markings on all firearms.

IN THE JUNE ISSUE, VOL. 9 NO. 12, Allen from South Carolina mentioned that in South Carolina, individuals can own suppressors. Since South Carolina is a "no MG" state, I just assumed that meant no suppressors also.

I went to the local BATF office in Charleston to find out what forms were needed and what procedures to follow. The BATF agents first response was "Who owns a silencer?" He stated that no one can own silencers. His last name must have been Clinton or Reno. Can you please help me with information, forms and procedures.

Z-Man South Carolina

Individuals in South Carolina can and many do own legal suppressors for their firearms. You can either manufacture one after having a Form 1 (tax paid) approved to make it, or transfer it to yourself on the Form 4 (tax paid).

Is IT LAWFUL TO POSSESS A rifle grenade launcher attachment as an accessory to hang on the wall with the rifle along with a flash hider, bayonet and scabbard, etc.?

Is the M79-LF flare gun as described in the enclosed ad legal to purchase and own without going through BATF purchase OKs?

Peter D.

You really need to be a little more specific. If a firearm was manufactured before the ban on manufacture of "dreaded assault rifles" for private ownership, then it can have all of the dreaded accessories. Grenade launcher attachments are not restricted, federally speaking, unless they actually fire a projectile, as in the M203 40 mm grenade launcher, which is a Destructive Device requiring registration and taxation under Title II. The M79-LF in the advertisement you sent is a 37 mm gas grenade launcher, which under present law is not even a firearm. There are no

federal restrictions on it. Watch out for the state and local laws, though. Never, never have any solid projectiles or 12 gauge adapters for these, as the possession of either and the 37 mm constitutes possession of a Destructive Device!

R: "THE FORMS" (MGN, JULY '96) and ATF's definitions. In the text of the Firearm Owner's Protection Act of 1986 (the infamous Volkmer-McClure May 19, 1986, law), BATF was required by Congress to define what a "dealer" was, within 90 days of passage. This was to prevent a private individual (who sold one gun from his collection in a year) from being prosecuted as "engaging in the business" or "dealing without a license." To the best of my knowledge, BATF still has not defined what constitutes a dealer. Your contacts may be able to help clear this up.

Bonner

Good question! It is interesting to note that ATF is the only federal agency that has had an act of Congress passed to protect American citizens from it.... It is titled the "Firearms Owner's Protection Act," and Stephen Higgins, the former Director of ATF, was reliably reported to have forbidden any ATF agent from referring to it as such. Up until 1986, this act notwithstanding, continuing until today, the ambiguous definition of a "dealer" has gotten a lot of citizens into hot water. In Part 178 "Commerce in **Firearms** Ammunition," Subpart B, Definitions, A "Dealer" is now defined as "Any person engaged in the business of selling firearms at wholesale or retail; any person who engages in the business of repairing firearms or of making or fitting special barrels, stocks, or trigger mechanisms to firearms; or any person who is a pawnbroker. The term shall include any person who engages in such business or occupation on a part time basis."

We still have the same problem. Selling one firearm for a profit can still be construed as "doing business part time"....and would appear to require a Federal Firearms License. This is, of course, how the ATF was able to manufacture a system of 280,000 FFL holders: going around to gun shows all through the 1970's and handing out

FFL application forms to EVERYONE and threatening them with prosecution if they sold even one firearm without a license. This lack of a "litmus test" definition has left the citizens in the lurch. I believe they should make a precise definition as in "If an individual sells more than ten firearms in one year, he must have an FFL; unless, it is the disbursing of a private collection, in which case he must apply for a one-time collector's exemption," or something like that.

HAVE ALWAYS THOUGHT THAT California was a non-Class 3 state, but recently read an article that has confused me.

The article was in the May issue of *American Survival Guide*. It was about Battle Cry Productions, a film company specializing in weapons rentals.

The article listed their number as (714) 547-4585 but I have had no luck. If it's possible for the movies to own Class 3 weapons in California, is it possible for me?

B. G.

Legally registered Class 3 firearms do in fact exist in California. Class 2 manufacturers function fairly freely there, as do the movie companies and law enforcement dealers. California has some very intense licensing requirements in order to be legal, and ATF is very aware of these. Chances for an individual in California to legally own Class 3 are slim to none. Those fortunate individuals who have a dual residence in Nevada, Oregon, or any neighboring states can own in the other states, but not bring them into California.

READ YOUR ARTICLE IN THE May '96 issue of MGN about the talks between the Russians and the U.S. about arms importation. I would like to add a few things that went on during the talks. I have a good friend who was present at the trade talks so this is second-hand information.

The Russian's stake in the talks were a way to generate hard cash currency for their economy. The lists of requested weapons to be imported was the topic of discussion at these talks.

Both the ATF and FBI representatives had NO problem with the lists of weapons to be imported. These were K98s, G41s, G43s, Luger pistols and P-38 pistols plus miscellaneous other captured rifles and handguns along with the sporter version of the AK. All that the Russians wanted to import were currently on the ATF's Curio and Relics List or had been previously approved by the ATF. However, when the person from the Justice Department saw the list, he went totally ballistic.

This Justice Department weenie wanted EVERYTHING banned from importation because he said that there are too many guns in the country already. He went on to add that all of these weapons would eventually end up in the hands of criminals. (I think he had in the back of his mind that anyone who owns a gun is automatically a criminal by the new Reno Justice Department definition.) When the ATF tried to tell this guy that there was no legal reason for not importing the weapons, his comment was that they "looked" like they should be banned from importation. The Russians were totally shocked, as they had thought that this meeting was just a formality and that they could go ahead with signing contracts with the U.S. arms importers.

After several hours of talking, he finally was convinced that some of the weapons could be imported because there was no legal means to keep them out. However, the Justice Department weenie would NOT permit the importation of the P-38s because they were of the highest "criminal concern." (I guess double-action handguns are the next in line for bans.)

I have now heard that the contracts that are being signed by U.S. arms importers to import these approved Russian weapons are purposely being held up by the Justice Department. This is being done so that the business contracts for the purchase of these weapons will fall through and that none of the weapons will be imported. Rather sneaky but would you expect anything different?

No, I wouldn't expect anything different. Readers are cautioned to remember this is not a recorded event, but I have enough information to lead me to accept this as an accurate account of the meetings. An interesting note here is that the villain in this little drama is not the "ATF" or the "FBI"; it is a politi-

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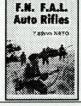
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and tells why the 63 and its variants will remain popular during much of the next century. The author also examines customized versions of the .308, .223, and 9mm ifles and submachine guns and semiauto versions as well as other chamberings of the G3 spinoff (like the HK-91/93/94, SR-9, SAR-3/8, SP-89, etc.). 8¹ 2"x11", 128 pages, illus., soft cover. Item No. C-9013.....

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3790 Harvester Road Harvester, MO 63303 314-926-3076 cally motivated gun ban from the Clinton's through Janet Reno. The Clintonistas are adept at circumventing the Constitution in many ways. This is just one more example. I had similar experiences importing large capacity magazines that were manufactured before the "Ban." ATF admitted that they were legal to import, but every time they were ready to approve my Form 6s, a "Treasury Department Clintonite" would order them held. This continued until the ATF folks were told they were in violation and subject to personal lawsuits if they didn't release the Form 6s...told by the legal folks in the federal government, that is. Once the truth was out, and the federal attorneys all agreed that there was no legal standing for the position the Clintonites had taken, the ATF personnel realized WHO was going to be left holding the bag, and Form 6s were approved.

H.R. 125 WITH REGARD TO THE recent bi-partisan 239 to 173 vote to repeal the 1994 Clinton gun and magazine ban, I respectfully submit the following:

Prior to the passage of the National Firearms Act (NFA) of 1934, Congress was legally advised that they could NOT ban the private ownership of machine guns, short-barreled rifles and sawed-off shotguns. Instead, they decided to control these types of firearms by means of taxation. The NFA of 1934 required that a \$200 transfer tax be collected every time an NFA weapon was transferred to an individual. The NFA was later incorporated into Title II of the Gun Control Act of 1968. Today, it is still legal for an individual to own and possess NFA weapons. According to recent FBI statistics, legally possessed NFA weapons are the least likely of all guns to be used in the commission of a violent crime.

The preceding information raises two interesting questions:

1. While considering the 1994 Clinton gun and magazine ban, why didn't the Clinton administration follow the lead of their predecessors and simply reclassify the so-called "assault weapons" as NFA weapons (i.e. \$200 transfer tax when transferred to an individual)?

The weapons would still have been perfectly legal to own and possess by

individuals. The funds raised from this transfer tax could have been used to support the "Crime Bill."

2. Why is there no talk about repealing the "original gun ban" (the McClure-Volkmer Act of 1986 which BANNED the manufacture of machine guns for sale to individuals)?

Our Second Amendment rights have been violated for the past ten years. It is about time something is done about this. Now is the time (along with H.R. 125) to be talking about repealing this travesty of law. A newly manufactured machine gun is no more dangerous to society than its original, which may have been manufactured in 1921, for example.

Steve

Your logic follows the 1934 logic, which was a manner of circumventing the Constitution (more specifically, the Bill of Rights). During the 1930s, imposing a "tax" was considered the cure-all to those sticky legal problems surrounding personal rights. One more example would be the 1937 Marijuana Stamp Tax Act. Putting aside personal prejudice on the issue, marijuana was considered to be a "personal choice" much as alcohol was-remember this is post-prohibition America we are discussing. Banning anything was considered to be futile, and an infringement. Congress used their "tax it into oblivion" method once again.

As to "why" the machine gun ban on manufacture was done in the manner it was? Well, you are talking about people who have a private agenda to ban all private ownership of firearms. No compromise from our side will ever change that. Each time we give up a little bit, they bite off another chunk, and will continue to do so until they have totally disarmed us. They are presently teaching your children in the public schools that firearms are evil things that cause death and destruction. The plan is that the next generation, and each succeeding one, will give up more and more of their freedom. In case you haven't noticed, it's working. Take a kid to a machine gun shoot.

FIRST, LET ME SAY THAT I HAVE enjoyed MGN for almost two years now. I have been a gun enthusiast my entire life. I think it goes back to the time at K-Mart when I threw a fit

because my mother would not buy me the double set of cap guns with holsters and spurs, but alas I digress. In February of 1995 I was presented with an opportunity to open a retail gun shop. Much to my surprise the business has grown beyond my wildest dreams. In fact, last month I completed a sale/trade of forty new shotguns to our police department. I have also been dabbling in Class 3.

I was approached by a representative of some local businessmen who are in the planning stages of creating a shooting range in our area.

Their plan is to purchase a large tract of wooded land — a one-time park that was owned by a local factory for its employees use. The range itself will include a 1000 yard big bore range and will have provisions for shooting Class 3. The investors would also like to hold subgun matches and provide machine gun rentals.

It is their intention to create a premiere shooting facility. Other than an indoor range with six bays and some conservation/shooting clubs, there is nothing like this anywhere near us and very few options at all for the Class 3 shooters in the area. I see this as an opportunity to promote the shooting sports in a positive light and (GASP!) possibly make some money in the process.

- 1. What type of liability is involved in operating a shooting range that allows full auto? What insurance companies will insure such a venture? None of the local agents will touch it.
- 2. What about machine gun rentals? How does that work?

What type of paperwork is involved? Form 4 to a corporation? Form 4 to one of the individuals? What about waivers when the guns are actually rented out to the public?

- 3. How do they run subgun matches? What do they need to do to be NFA sanctioned? What about liability insurance?
- 4. Are there any special liability problems associated with the big bore range?
- 5. Can you suggest any insurance carriers for the above venture.

I would appreciate any information you can share on the subject or possibly point us in the right direction.

On another unrelated subject (as long as I'm taking up your time any-

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way), here is a discussion that I was involved in at a recent gun show with some other dealers.

As a licensed FFL dealer, I am by law engaged in the business, whether from a retail store or my kitchen table. All of my records including 4473, bound book, invoices, transfers, etc., are records pertinent to my business. Suppose I were to be audited by the IRS, either state or federal. What would prevent these agencies from demanding to see my record of firearm movement, i.e. bound book or 4473? My gut feeling is nothing! Maybe you could pose that question to your readers.

Again, thanks to MGN for a fantastic magazine and thank you for your time.

Wayne C.

How do you spell L-I-A-B-I-L-I-T-Y? Good luck with the range. We need more of them. Your questions, as best as I can:

- 1. Incorporate it. Get an NRA affiliation, and pay the \$5000 per year for insurance for a commercial range. Have your personnel NRA trained, and have them also attend the NFA course on range instructor.
- 2. Renting out machine guns to shooters is done by the magazine or by the hour. You must use transferable machine guns or pre-86 dealer samples, unless you do law enforcement training, in which case the post-86 dealer samples may be utilized on the range. Have a lawyer make up a waiver for anyone who shoots to sign. Do not allow anyone who is drinking alcohol near the range, and make sure that everyone is supervised. Open-bolt machine guns seem to baffle the novice who may think "open is safe," or start launching rounds over your range by "hip-firing."
- 3. Contact the National Firearms Association, Drawer 640 Box 19400, Austin, TX 78760-9400, and set it up with them for a sanctioned competition.
- 4. Big bore liability? Other than launching a 750 grain projectile a potential distance of five miles? That's 7500 yards longer than your range. Do an aerial survey of the area, and make sure there is nothing downrange that could be trouble. Don't let any homemade fifties on your range unless you have inspected them. That is a lot of potential trouble sitting inches in front of someone's head. You don't want to

take them to the hospital, or worse. Remember that a homemade fifty can endanger your other customers as well.

5. Call the NRA for insurance—it's your best bet.

Last, the IRS can look at your bound books, although they wouldn't unless something was triggering little bells and buzzers in their minds. ATF is related to the IRS—remember that. Special Occupational Tax issues are open to the IRS.

Wayne, I hope this works out. We need more ranges like this.

GREAT COLUMN DAN, IT HAS always been very helpful for those of us trying to conform to all the regulations associated with NFA weapons. I have a question I'm sure you've addressed before but I couldn't find anything in my back issues or my MGDB so I hope you'll be so gracious as to clarify this again.

Here's the situation: I currently own several legally registered non curio/relic NFA firearms and live in a state which requires non curio/relic NFA owners to maintain an FFL of some type (in my case an 03 collectors license) to legally own these weapons. As a result of divorce, I find myself in a situation where I will need to sell my residence in this state and move in temporarily with a friend who lives in an adjoining NON-MG state. Obviously, I would like to avoid the expense and hassle of selling my NFA toys just due to a temporary move.

Can I place my NFA goodies in a safe deposit box in the MG state and amend my Form 4's with NFA branch? Would I show the bank as the current location? I am currently collecting my mail from a P.O. Box near my place of employment (in the MG state) until I find a permanent residence. What about amending my FFL collectors license? (I haven't used this license to purchase any C/Rs but merely keep it up-to-date to satisfy the state laws on MG ownership.) Would I need to amend this to show the P.O. Box or my temporary residence?

As another option (although not preferable), could I just Form 5 these firearms to a friendly Class 3 or Class 2 SOT for storage until I return to the MG state?

With the current administration's attitude toward gun owners in general and MG owners in particular, I want to

do whatever I can to avoid any legal problems.

HELP!!!!

Confused and bewildered

Dear confused and bewildered—join the crowd. These little things can add up and cause LOTS of legal trouble. I am going to suggest to you to call the NFA Branch (202)927-8330 and ask to speak with a specialist. This is probably the only way you are going to stay 100 percent legal. When you move, your license moves with you. Keeping it at a P.O. Box is going to cause you trouble. Arrange with the ATF to move your license with you to your temporary home if it is going to be more than a few weeks, and file whatever form they want to keep them in safe storage in another state (probably the 5320.20). Again, there are many ways that ATF has handled this in the past.

HAVE A FEW BRIEF QUESTIONS. What needs to be done to make a dummy gun out of a parts kit for a 1919? The side plate; I guess it must be unfinished but how unfinished? (Can you make a semi-auto 1919 in California?) How can this be done? I really enjoyed Knob Creek last year but they need to build some bleachers so we can all see what's going on, but the gun show was outstanding. Keep your powder dry. Thanks for your time.

Forest M.

There are a number of semi-auto 1919 manufacturers out there. DLO in Florida comes immediately to mind (941) 491-8622. Sarco is offering a 1919 nonfiring replica (908) 647-3800. Making one yourself is something you really want to be careful about. Check with Technology Branch, ATF for the specifics. Here are some basics:

Nonfiring replica: Cannot be made from an original machine gun, meaning that the part that is considered to be registerable cannot be used. You cannot take an unregistered 1919A4 and make something out of it—that is contraband. You CAN buy a parts set missing the right side plate and manufacture a dummy. Make the sideplate real thick so that no bolt will fit in it. Block the barrel, and weld it to the receiver. Above all, check with Technology Branch ATF to be sure you are not at risk.

Semi-auto: Cannot be made from an

existing contraband machine gun. You can start with machine gun parts, but there must be enough changes so that no one can readily insert full-auto parts, and your design must not be "readily convertible to full-auto." I suggest you either buy one that has been approved as a semi-auto, or get into contact with Technology Branch, ATF.

THAVE BEEN A SUBSCRIBER TO **M**GN for almost a year. I am new to the way things work in the Class 3 world. I am on the verge of purchasing my first machine gun, but there are some questions that I need to have answered first. The Class 3 dealers (two) that I have spoken to seemed to have "blown off" these questions without really answering them.

Question: Does applying for, receiving approval for, and purchasing an NFA weapon give the BATF permission to come to my home to make an inspection any time they want? Even if I'm not home? Would all of my non-NFA weapons then be subject to "inspection?" What other special responsibilities will I incur?

I am not paranoid, I have nothing to hide...I am just a victim of a lot of ATF horror stories (like that of John Ross's book!) and don't like the idea of giving a government agency any more reason or right to enter my home—especially in this day and age.

M.K.

Lane Publishing has just published the Machine Gun Owners Guide by our own Frank Iannamico. He goes into this subject in further detail. Generally speaking, you do not surrender any rights, you have merely paid a tax to transfer the firearm. ATF does not have the right to come to your home and check on the firearm. They can, however, come as part of a criminal investigation. That requires a warrant. Ask to see it. Call your lawyer immediately if they show up looking for your registered machine gun, and get him over there, pronto. You probably have more problems than "We just want to see your machine gun."

7OUR MAGAZINE IS FULL OF interesting articles on guns but also keeps us up-to-date on the ever-changing gun laws. I am not a machine gun



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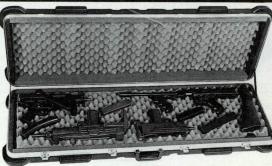
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The wrong phone number appeared in July 96 issue. The correct number is listed above.

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owner but would like to be. I'm 40 now, but in 1986 I was too young and had other goals in life to have been a registered machine gun owner. Is it still possible for us youngsters to become legal owners or is it just a dying breed of you older guys, when you're gone nobody can have them anymore? Please respond on this question in your magazine.

Bruce C.

It is not to that point yet. All machine guns manufactured in the United States before 1986 or imported before 1968 are available to you to own, if they were registered with the National Firearms Act Branch in Washington. That is a static pool of about 177,000 machine guns available to you to own. Call your local Class 3 dealer for more information, or go to the machine gun shoots that occur around the country.

HAVE A VOLLMER 21 REGIStered receiver sear conversion. In section H on my Form 4 it reads: installed in FMP Rec.#XXX Barrel: 17.7" Overall 40.4" no rec. modifications. I am under the impression that since the 21 is not a short-barreled rifle, I could legally install the registered sear in my HK SP89, converting it to a legal subgun. Assuming I'm correct, how do I convince the law enforcement agent at the local range that my SP89 is a legal machine gun when section H on my Form 4 describes a totally different firearm?

R. G.

The description of your Title II machine gun, registered on the Form 4, is a registered machine gun sear, Model HK, in 9 mm, .223, and .308. The fact that it is registered in section H does NOT keep it married to that HK-21, because there are no modifications to the HK-21 that would make it other than a Title I firearm. In other words, the 21 is not a machine gun without the sear, and it has a barrel over 16" in length, so it is not a short-barreled rifle. You can put the sear in your SP-89. Be careful that you do not leave either a buttstock or foregrip on the SP-89 after removing the sear, or you will end up with an unregistered Short-Barreled Rifle (buttstock) or unregistered Any Other Weapon (foregrip).

Questions to: Dan Shea, C/O MGN P.O. Box 20459 Hot Springs, AR 71903-0459

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MG0074	Madsen 1950 LMG .30-06	MG1008	Beretta AR-70 used in box, new forend, pre-86 DS 4200	MGI034	AR-IO'S - A COMPLETE SET, ONE
1400074	pre-86 DS	MG1009	Beretta AR-70 exc., new	1101034	OF A KIND! THESE ARE FULLY
	FN Model D, excellent .30-062600		forend, pre DS		TRANSFERABLE AND THERE IS
100.207	MP-22 exc. cond. trans. 1 mag machine pistol	MG1010	SC-70 Beretta, long bbl, used, pre DS 5000		ONE EACH OF THE HOLLYWOOD, SEMI-AUTO, SEMI AUTO MG,
MG0993	MP5A2 pre-86 DS, SEF lower slimline forend	MG1011	Beretta PM-12S, NIB, pre-86 DS3750		DANESE, PORTUGESE, CARBINE,
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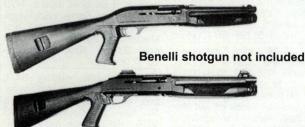
Okinawa Island 1 April 1945

"Marines hurdle a stone wall as they participate in a drive across Okinawa." Note Marines carrying a BAR (bipod, as usual, removed), flamethrower, and M1 rifle. Each proved to be essential in specialized tasks in crushing fanatic Japanese resistance as their empire imploded. Credit: USMC/National Archives. Copyright © 1996 ROBERT BRUCE PHOTOGRAPHY. Note: Robert regrets that he cannot handle individual requests for photographs. However, publishers and documentary film makers, etc., are encouraged to contact him for information on use of archive images. Send a self-addressed stamped envelope and details on intended use to ROBERT BRUCE PHOTO, P.O. Box 482 MGN, SANDSTON, VA 23150.

CLASS THREE SUPPLY, INC.

P.O. Box 1119 Hermitage, PA 16148-1119 Phone: (412) 962-1890 Fax: (412) 962-1891

MIK "HAMMER"



Specifications

Barrel length: 10.4" Overall length: 31.7" Magazine capacity: 3 Suggested Retail \$295.00

CTS Incorporated now offers the original M1K "HAMMER" conversion to all qualified owners of Benelli M1 Super 90 shotguns. Previously restricted to law enforcement agencies, this conversion allows the user to add tactical flexibility to this fine weapon.

This conversion is available on all Benelli M1 Super 90 shotguns

This conversion is available on all Benelli M1 Super 90 shotguns that do not have a fixed 7-round magazine. All later production models will accept our conversion, including ghost-ring sight versions.

The M1K "HAMMER" conversion includes shortening your barrel and relocating the front sight. A new magazine cap will be provided and your original magazine extension will be returned to you. "Hammer" logo can be engraved at additional cost. Your shotgun will retain the ability to accept optional barrels and magazine extensions.

The M1K "HAMMER" is registered as a short-barreled shotgun and may only be transferred to individuals on ATF FORM 4. The transfer is taxed \$200.00 and must be approved by BATF prior to delivery of the firearm.

M1K "HAMMER" conversion on customer's shotgun; shipping, insurance, sales tax and transfer tax additional.

Note: The M1K "HAMMER" conversion is only available on otherwise stock shotguns. CTS Inc., may refuse any firearm that is deemed unfit. Price and specifications are subject to change without notice.

SWEDISH K PARTS

Closeout of parts for the Carl Gustaf M45B or Port Said 9 mm submachine gun. All parts removed from functioning weapons in good repair.

Item	Description	Price
C0045	Left grip panel	\$ 5.00
C0046	Right grip panel	5.00
C0047	Barrel shroud with retainer (stripped)	20.00
C0048	Receiver cap	10.00
C0049	Barrel (pitted bore)	50.00
C0050	Bolt assembly	50.00
C0051	Return spring	10.00
C0052	Barrel Support	20.00
C0053	Magazine housing (removable type)	10.00
C0054	Retainer for magazine housing	5.00
C0055	Buttstock assembly	20.00
C0058	Trigger	10.00
C0059	Sear	10.00
C0060	Ejector	10.00
C0061	Cocking handle	20.00
C0062	Front sight	10.00
K0008	Port Said complete parts set with magazine	225.00
VI-S-MARKET STREET		

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- * Contains All Internal Parts *
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 0504000 Grip assembly for Mini Uzi closed bolt SMG \$495.00
 0464000 - Grip assembly for Mini Uzi

open bolt SMG \$450.00 1074000 - Grip assembly for Uzi SMG \$395.00

BRAND NEW PARTS FOR YOUR UZ!!

*IMI parts for Uzi SMG				FN parts for Uzi SMG	
1000101	10.2" barrel	\$150.	1010101	10.2" barrel	130
3560101	9.2" barrel	165.	1013000	Top cover assy., black	75.
1073000	Top cover assy., black	100.	1010111	Bolt	125
1023000	Top cover assy.,		1010400	Grip body, black	75.
	parkerized	90.	1040400	Grip body, parkerized	65.
1030111	Bolt	125.	*IN	Il parts for Mini Uzi SMG	
1031000	Bolt/extractor/pin assy.	170.	463000	Top cover assy., OB	150.
K35	Extractor/pin	45.	K29	Bolt assy CB	495.
1060120	Return spring assy.	30.	460120	Return spring assy., OB	40.
1120400	Grip body black	100.	910120	Return spring assy., CB	40.
1074000	Grip assy.	395.	1120400	Grip body	100.
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1000411	Sear	65.	504000	Grip assy., CB	495.
1060420	Trigger/interrupter assy	. 75.	K77	Buttstock assy.	300.
1060431	Change lever	25.	*IMI	parts for Micro Uzi SMG	
1000212	Ejector	15.	960101	5.2" compensated barrel	165.
K37	Grip panels/screws	40.	K23	Buttstock assy.	300.
K58	Grip/handguard		140	au athar IMI and available.	1
	panels/screws/nuts	85.	/ Ivia	ny other IMI parts available; call for information.	,
1360000	QD buttstock wood	165.	Deduct 10% if your Uzi parts		
U1360000U	Used QD buttstock		1	order exceeds \$1,000.	
	wood	100.	Addit	ional discounts to FFL dealer	rs
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Dealers Only

\$1,495.00 plus \$15.00 FRT/INS

Post 05/18/86 imports not transferable to individuals.

CTS Inc. has received a small number of the famed HK G41 5.56mm machine guns. These automatic rifles incorporate the best of the M16 features with the reliability of the HK delayed blowback roller-locked bolt operating system. These weapons are in very good used condition with sling and one M16 30-round magazine included.

Only 5 left!

RUGER AC556 PARTS KITS

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AC556 Parts Kit \$325.00	AC556 Original Ruger 30-RD. Magazine
N.R.A. Good Condition	Refinished \$49.00
	Good Condition

TURKISH MP5 PARTS SET

Complete parts set removed from Turkish MP5A3 machine gun. Each of these weapons were fired fewer than 100 rounds. You receive every part of the weapon except the receiver.

- * Complete 3-lug barrel/front sight assembly
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- * Slimline forearm with push pin
- * Magazine and magazine release bushing are NOT included

\$995.00

Prices subject to change without notice.

Dealers should send FFL/SOT for dealer discount.

SIBIBOS

WANTED

110

Wanted: Post- or Pre-86 Galil SAR 7.62. Also looking for exotic AKs, will trade - have HK MP5SD, NIB. Todd, (910) 313-1786. (xsep)

Wanted: 81 mm inert mortar proiectiles, 81 mm mortar protective end cap, 81 mm mortar shipping crate or equivalent, 81 mm mortar technical manual. Need all the above in WWII Russian 82 mm Model 37. Also any related goodies. Call or fax Mark at (808) 572-8431 Thanks.

Wanted: Parts & information for GE Minigun. Call Larry at (216) 934-5762 after 4:00 p.m., EST.

Covert Weapons: Collector looking to buy interesting, rare, exotic and unusual AOW category weapons such as Pen Guns, Camera Guns, Cane Guns, Guns, Operational Briefcases and unique suppressors. All NFA rules apply. Call Bruce at (603) 437-7943. (xdec97)

Stoner 63A parts, accessories, literature, information, memorabilia needed. Jerry (217) 826-2919. (xaug97)

Wanted: AR-10 parts kit, complete less receiver, prefer Portuguese model. Advise price to P.O. Box 2032, Santa Clara, CA 95055.

CAMERAS that resemble machine guns and any literature or photographs relating to them (even copies would be appreciated). Also want military and other special purpose cameras including aerials. Richard Ogden, P.O. Box 210, Chapman, NE 68827. Phone/FAX (308) 986-2247.

Wanted WWI and II U. S. military parts, wood, scopes, tools, incomplete machine guns (legal) receivers, Springfields, Garands, carbines, Winchester shotguns, tripods, etc. Look through your stuff. Send list to McInenly, P.O. Box 1312, Delray Beach, FL 33447-1312

Looking for East bloc ammo in calibre 5.45 x 39 mm and also any three or four round magazines for the Franchi Spas 15. FBC: Ivan Grayson (800) 366-9307. (xfeb97)

BAR Info: I am researching to write the definitive book on the BAR. If anyone has anything unusual or interesting concerning this splendid rifle, please send to: REBAR Jim Ballou, 122 Lafayette Rd., Salisbury, MA 01952. (617) 592-3994. Email address: ptcraven@ici.com (dec)

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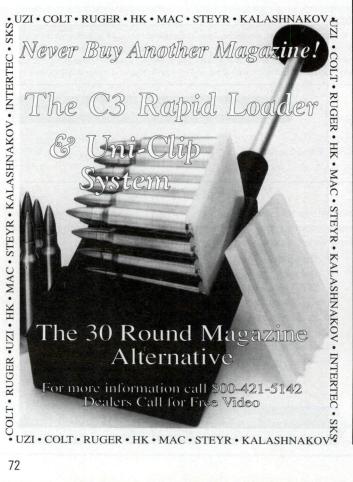
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MG-42 tripod, excellent condition including extras you really want, searching fire mech., AA extensions, carry straps, bolt box and optics base (sorry no optics). (Actually post-war Yugo M53 mounts identical to WWII German.) \$2,700.00 OBO + shipping (520) 327-1952 leave mes-

Colt 9 mm 25 rd. marked "Colt cal. 9 mm NATO" \$50 each, 5 or more \$45 each. "New" 85% \$45 each, 5 or more \$40 each. Wanted: Uzi .22 cal. mags., Group Industries, Uzi IMI 45 ACP mags., 10 or 16 rd. "Reasonably priced." J&J Enterprises, P.O. Box 175, New Ipswich, NH 03071. Semi-auto 1919A4 belt-fed Valkyrie Arms, .30-06, .308 available. New with tripod, pintle, T&E, belt loader, belts, cover, manual, legal in all states, 4473 transfer only. Guns, gold, silver trades accepted. Visa and Mastercard accepted. In stock now, \$3,850. Rick (805) 659-1877. (xjan97)

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FULLY TRANSFERABLES 125

Winchester 1918 BAR, mint \$6200.00; 1919A4 DLO unfired with all accessories, \$3700.00; H&K PDW-N, NIB Vollmer sear, all German, \$4700.; MG3 belts, NIB with starter tab, five belts of 50 rd. to a box, \$50. per box. Tim, evenings (954) 989-5510. (x)

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Uzi carbine SMG. 45 cal., 2 bolts/barrels, 7 mags., under 1K rounds fired, all IMI, other access/box. NFA rules, \$3,500 plus tax. Only blemish, clawmark (touched up), otherwise, 99 percent. Partial trade for Model 94 okay. (501) 372-6000. "Tex." (x)

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Schmeisser MP-41 transferable tube done by Stan Andrewski, matching mags. \$2,000.00. Birmingham PPS-50 .22LR, \$1,500.00. Call Jim at work (508) 465-5561. Home (617) 592-3996. (xdec)

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DEALER SAMPLE 13

Post-86 dealer samples, Ruger KAC-556 NIB, \$750. & Beretta 12S NIB, \$1100., Pre-86 dealer samples, Mauser 712, \$1300. & STEN Mk II, \$600.. (314) 928-5267 days. (xnov)

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JN PARTS 14:

WW2 MG34: Waffenampt, manufacture coded, machine gun mounts, transport racks, Aufsatz, Lager, Gurtrommeltrager, Patronenkasten, etc. 100% satisfaction guaranteed. Call 1(800) WW2-ITEM. 24 hr/day leave message. (xoct)

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SERVICES DIRECTORY 160

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SUPPRESSORS

165

AWC Abraxas 9 mm with Beretta barrel, \$500.00. AWC CQB9 \$350.00. AWC Warp-3 with Walther TPH, \$800.00. Call Jim at work (508) 465-5561. Home (617) 592-3996. (xdec)

DESTRUCTIVE DEVICES 175

Lahti 20 mm anti-tank rifle complete with all accessories; coffin, mags, carriers, armorers kit, plus 80 orig. rds & 20 Lomont reloads. Exc. Cond. \$3000 for rifle \$1800 for Ammo with purchase of gun. (203) 375-7804. (octx)

MISCELLANEOUS

180

FIREWORKS CHEMICALS!!! Potassium perchlorate, potassium chlorate, nitrates, color producers, metal powders, 100+chemical items, waterproof fuse, paper tubing, "glassware" makerockets, smoke bombs, tracer ammo, firecrackers, etc. black powder rocket kits composite fueled rockets, "How To" pyrotechnics books, manuals, video's "huge catalog" \$3.00. Pyrotek Dept. M, PO Box 1, Catasauqua, PA 18032 (717) 256-3087. All state and federal laws must be adhered to. (xoct)

WW2 militaria collection liquidation catalog \$5.00; with color photos \$10.00 (banknote only) to Graaff, Eikenlaan 14, NL-6063BL VLODROP, The Netherlands. (x)

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NOVEMBER '96 ISSUE CLASSIFIEDS CLOSE SEPTEMBER 27TH.

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Thompson SMG M1/M1A1



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Owen SMG

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Have all three kinds of butt stocks and both styles of trigger housings. Add \$10.00 if you want a particular style.

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M3/M3A1 New G.I. sear, extractor, 4 recoil & 4 magazine catch springs. These will cure most problems of used guns MAGAZINES, 30-rd, new in G.I. wrap. \$15.95

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BREN spare barrel cases, also fits a STEN MkII. Has out-

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Walther MPK MPL 9 mm SMG

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* MP5 Barrel Threaded 1/2 x 28

"SEF" Lower & Combat Magazine Kit.

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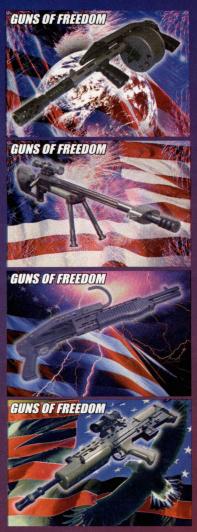
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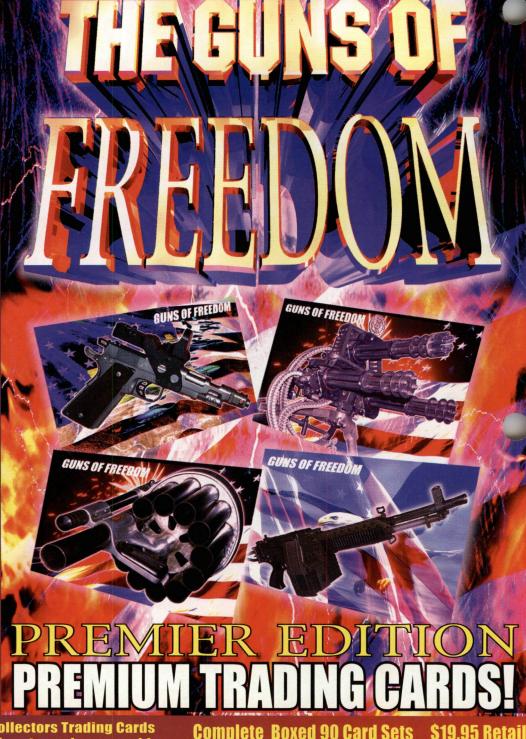
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