

Machine Gun News



**Mark White's
Suppressed
.45 Caliber Carbine**

Fleming's MP5/HK94 .22 Kit

MP28, II Submachine Gun

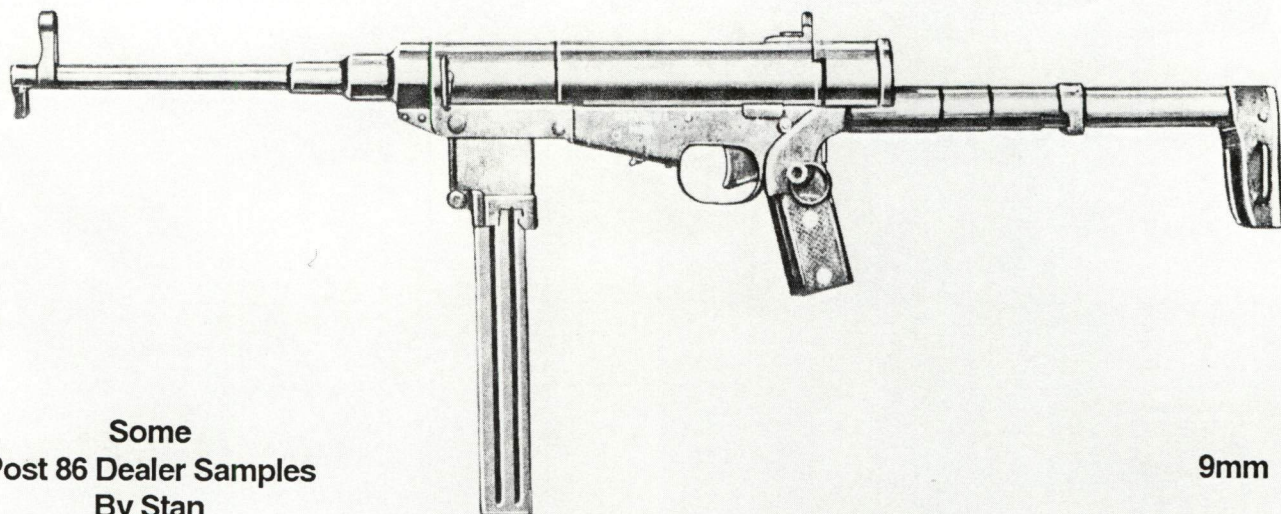
Smith & Wesson's M76

**Muzzle brakes!
A discussion
and shootout
comparison test**

LONG MOUNTAIN OUTFITTERS

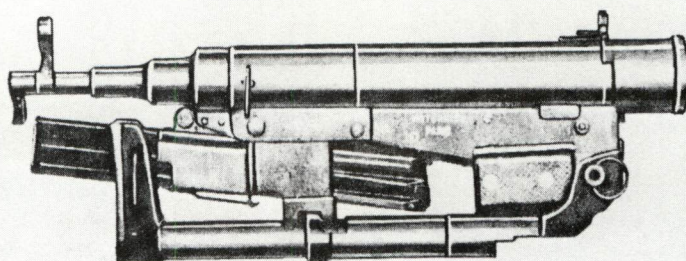


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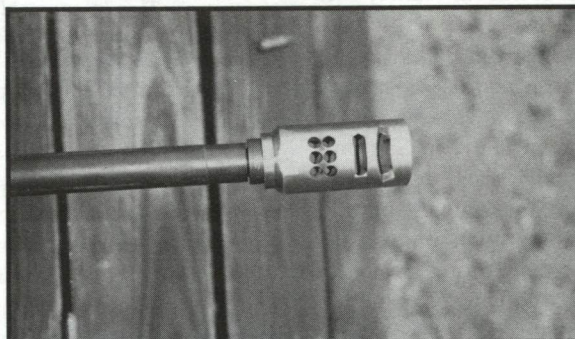
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On the Cover: Mark White and his Suppressed .45 Caliber Carbine.

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A DEBATE

MP5/10 Versus MP-45

I'd like to comment on a few points made by your Technical Editor, Mr. Dan Shea, in his otherwise well written article entitled "Fleming's Big, Bad, MP-45" which appeared in the March 1992 issue of your fine magazine.

While I do work at H&K in Sterling, Virginia in the Federal Operations Department I am addressing this article from the personal side. Many of my comments are based on my own opinion, though from the aspect of an insider who is responsible for the coordination with our R&D department in Germany on the development of new products for our Government and Military customers.

One of these products is our new 10mm "MP5/10". I have lived with the first five prototypes for over a year and have listened to the comments and opinions of outsiders concerning the outstanding 10mm Auto cartridge. I hope to share some of my experience with both Mr. Shea and your readers. [Editor's Note: Chris Choat will review the MP5/10 in an upcoming issue.]

First off, I personally believe that Bill Fleming will do well with his new creation, the MP-45 in .45 ACP. There is little question that the .45 ACP cartridge ranks high among defensive handgun rounds. However, the .45 ACP round is not the magic bullet that many persons have touted it to be. Mr. Shea states, and I quote, "When a .45 ACP round hits a person, there almost always an immediate effect, even if they are wearing body armor! They go back and down, incapacitated." Obviously, he hasn't read the Evan Marshall/Ed Sanow book *Handgun Stopping Power* and taken notice of the documented street failures of the .45 ACP round. From page 94 I provide this example.

"A U.S. Military member with counter terrorist responsibilities, he carried a cocked-and-locked .45 everywhere he went. He and his wife were walking to their car in the theater parking lot when he was confronted by three youths. They demanded his wallet and when he told them to forget it, one pulled a knife.

The soldier's response was swift and sure. He pulled his .45 and double-tapped the kid with knife. Turning his attention to the other youths, he suddenly heard his wife scream his name. Turning, he saw the knife sticking from her stomach. He shot the stabber again and grabbed his wife. While in the process of providing first aid for her, he heard a car start and saw the youths drive away. His wife was rushed to the hospital, where emergency surgery

saved her life. While leaving through the emergency exit, he saw her attacker walking in for treatment. The 16-year-old holdup man had taken four rounds of .45 ball in chest and was still mobile four hours after the incident!"

This example is only one of four that are included in this book alone. There are many others. There is no ultimate handgun cartridge. Mr. Shea completely dismisses both the .40 S&W cartridge and the 10mm Auto as "a serious alternative to 9mm". Why? For practical purposes, the 10mm Auto is the most powerful auto-pistol cartridge available. There are available loads from the 900 fps velocity range all the way through nearly 1,500 fps. The 10mm auto cartridge ranks in comparison to the highly-respected .41 or .44 magnum revolver cartridges.

Nearly all current 10mm loads expand to .70 caliber or larger and penetrate 13 to 23 inches of ballistic gelatin. The 10mm Auto cartridge also offers a greater case capacity which allows a great deal of flexibility with different bullets weights and propellant charges and avoids the high peak pressures experienced with the more tightly packed .40 S&W cartridge.

H&K's choice to develop the MP5 in 10mm Auto and .40 S&W is not a mistake Mr. Shea would have your readers believe. H&K has simply not been approached to produce the MP5 in .45 ACP in numbers that would pay for the substantial costs to develop and build it.

Heckler & Koch is first and foremost a manufacturer of defense and law enforcement weaponry. H&K's factory in Germany, referred to as HK-GmbH, is not a converter of existing weapons as are custom shops such as Bill Fleming's. HK-GmbH produces new, complete weapons in an economical series-production manner. At it's peak, HK-GmbH can produce 2,000 G3's or MP5's a day. This kind of production requires an enormous outlay of funds for production tooling, gauges, labor and materials, not to mention the design and testing required for a new product. These expenses must be paid for by the capitol raised through the sale of the product.

Only relatively large orders (1,000 weapons or more) even begin to offset the costs discussed

above. The 10mm MP5, referred to as the MP5/10, exists because of a serious requirement for more than 1,000 units from within our own Government Law Enforcement community. Had this same organization requested the MP5 in caliber .45 ACP, and at a sufficient quantity to cover the developmental costs, then I am certain that an MP5/45 would exist at H&K today.

As for H&K saying that the MP5 cannot be converted to .45 ACP, this comment is not supportable by fact or logic. H&K is the same company who successfully designed and produced the first fieldable caseless ammunition rifle, the G11, and the H&K Close Assault Weapon (CAW), capable of perforating the cab of a military 5-ton truck at 150 meters with tungsten buckshot! The MP5 in .45 ACP simply does not exist at H&K for economical reasons, not the technical reasons that Mr. Shea eludes to.

Without question, imaginative firms such as Fleming Firearms are much more capable of addressing the specialized needs of the relatively small number of civilian "buzz gun" owners in the U.S., with conversions of production weapons, than a series production firm like H&K. Rarely a month goes by without Bill Fleming offering a new and devilishly sweet conversion of yet another HK91, 93 or SP89. Each time he does, he not only takes advantage of the popularity of the H&K weapons with the customer but he also pays homage to Heckler & Koch in that he prefers to practice his trade on the very best weapons available.

But if this new MP5 in .45 ACP is "Big and Bad" then H&K's own MP5/10 in 10mm Auto is certainly "Lean and Mean".

Ammunition Performance Comparison Table

	Cartridge Specifications	Velocity (FPS)	Muzzle Energy (Foot Pounds)
		Muzzle/100 meters	Muzzle/100 meters
9mm Parabellum*	Winchester 115 gr. Silvertip	1225/1007	383/259
	Winchester 147 gr. Subsonic	1010/921	333/277
	Winchester 155 gr. Silvertip	1205/1018	500/357
.40 S&W*	Winchester 180 gr. JHP	990/891	390/317
	Winchester 175 gr. Silvertip	1401/1099	768/475
	Norma 170 gr. JHP	1473/1142	825/496
10mm Auto**	Winchester 185 gr. Silvertip	1000/888	411/324
	Proload 185 gr. JHP	1000/880	411/318
	Proload 185 gr. JHP	1000/880	411/318

* Manufacturers Data ** Actual MP5/10 Data

Lets look at the stats that Mr. Shea chose not to address. (See comparison table) We chose the Winchester Silvertip round in each caliber for similarity of comparison. According to Evan Marshall, the 185 grain 5 ACP Silvertip and the 175 grain 10mm Auto Silvertip are the best choice for effectiveness against human targets in their respective calibers. The energy figures for the 175 grain 10mm Auto Silvertip in foot pounds (ft/lbs.) at both the muzzle and down range at 100 meters are very nearly twice that of the .45 ACP Silvertip. Twice! No standing bowling pins with this round Mr. Shea.

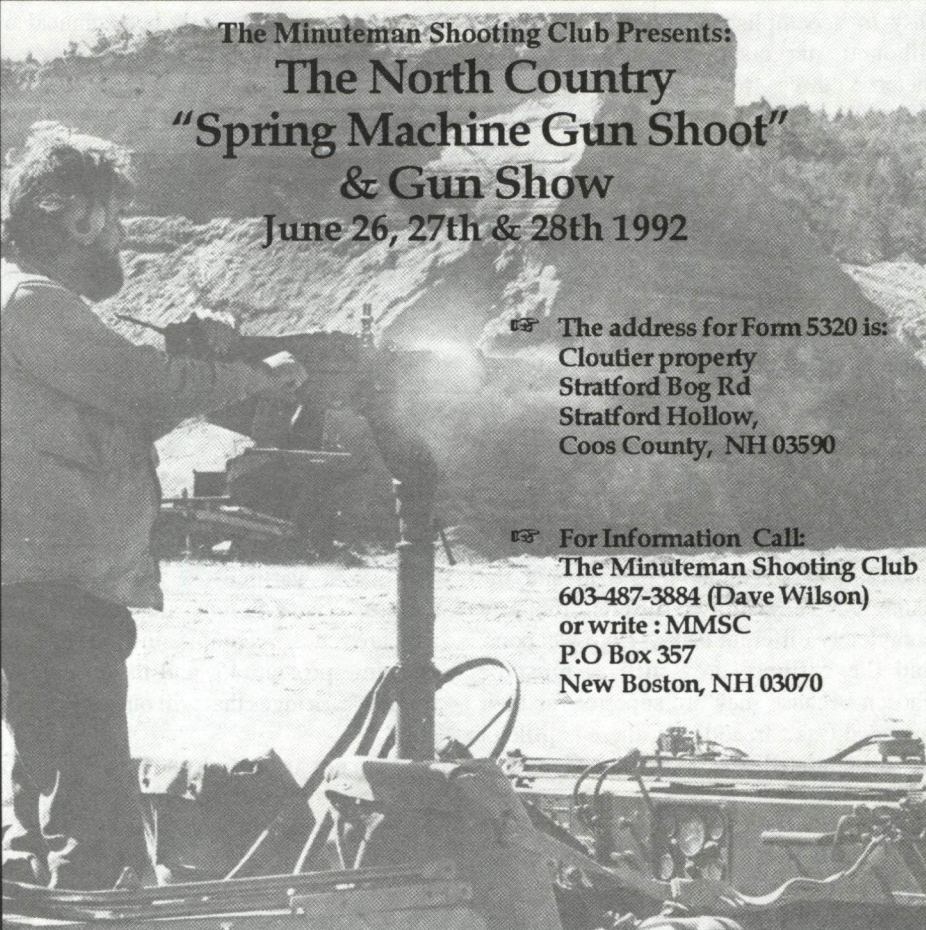
While the excessive recoil of the 10mm cartridge may be difficult for all but the most proficient pistol shooters to handle, this same argument holds no water when applied to a shoulder-fired weapon like Heckler & Koch MP5/10. The H&K MP5 is the exact same size and weight whether chambered for the 9mm, 10mm or .40 S&W cartridge.

The delayed roller-locked bolt system provides little in the area of reduction of felt-recoil in caliber 9mm. There simply is not enough energy produced by the 9mm round to take advantage of the physical properties of this design. The 10mm Auto cartridge is a different animal entirely. The delayed roller-locked bolt system easily tames the felt-recoil of even the hottest 10mm round. Perceived recoil is only slightly more than that of the 9mm MP5, especially when firing the milder "reduced velocity" loads, similar to that adopted by the FBI.

Actual calculations of recoil energy for the 9mm MP5 is 1.36 ft/lbs. compared to 2.0 ft/lbs. for the reduced velocity loads (@ 975 fps) and 3.6 ft/lbs. for the heaviest recoiling round, the 175 grain Winchester STHP. In independent testing, 24 out of 30 rounds of 175 grain Silvertip impact on a military E-type silhouette at a distance of 25 meters fired as one long burst from an unsupported standing position. (See Andrew Tillman's article entitled "Heckler & Koch's MP5/10" in the 2/1992 issue of International Defense Review). Recovery time onto target is comparable to that with the 9mm MP5. In addition, the 10mm round from the MP5/10 penetrates most mediums encountered in law enforcement (such as automobile doors and windshields) as much as 40% better than even the best 9mm loads.

And of course, there can be little argument about the long range superiority of the 10mm Auto round fired from the MP5/10. Precision 200 meter shots are (continues)

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easy to accomplish and multiple hits on silhouette targets at ranges out to 100 meters in three - round burst mode are the norm. For these reasons the 10mm MP5 would be an excellent choice as a choice as a squad car carbine.

Mr. Shea's point about cost comparisons is true though any major ammunition manufacturer will tell you that cost of the 10mm Auto round would drop as the demand and the production quantities rise. Organizations who, by the nature of their business, put their members in harms way on a daily basis owe it to these men and women to provide them with the best weapons to protect their own lives and the lives for whom they are tasked to protect.

Let's forget about commonality of ammunition between the long-arm and the handgun. They are two different tools for completely different tasks. Both weapons, and the calibers they utilize, must be chosen because they are superior for their intended task. In addition, there is little or no substantiated data, to my knowledge, to support the notion that rounds are exchanged from pistol magazine to long-arm magazine during a gunfight. If this is truly a concern, why do most Federal Agencies, Tactical Teams and our Military Services carry 9mm or .45 ACP pistols and 12 gauge shotguns or 5.56mm rifles?

The MP5 is still today, more than 25 years after it's creation the finest and most advanced submachine gun available. Now, in 10mm Auto, the MP5/10 is the deadliest submachine gun ever devised.

As with anything, seeing is believing. Therefore, I hereby extend an invitation to Mr. Shea to visit our facility in Sterling and test fire the MP5/10, MP5/40, and the new MP5K - PDW (Personal Defense Weapon).

Thanks and keep up the good work!

Jim R Schatz

DAN RESPONDS

First I would like to thank Jim for the compliments to MGN in his letter. We try hard to bring good solid information to the readers. It might be a mistake, however, to characterize the readers as only hobbyists and civilians. MGN serves the industry as a whole, with many government agencies, special op groups, large manufacturers, etc included in our subscribers. Most of the innovations in firearms have come from the civilian tinkerers, many of whom have small Class 2 Shops, and are long time readers and contributors. A decision was made at the beginning of MGN to keep from being too technical in our firearms descriptions, to keep the articles readable.

It would be easier to get super technical and much less readable. For those who desire more in depth info, most of the authors and manufacturers are only a letter or phone call away. That said, I can continue to answer your points. I personally consider the H&K MP-5 series submachine gun to be the most effective sub-gun available on today's market. This is upheld by the prominence among the field users of it over less expensive models that are available. Where the clash is coming is in the dissatisfaction among those field users, regarding the 9mm caliber. 9mm was presented in heated debates as the "magic" bullet, and the high capacity 9mm handguns have been the rage for quite some time. Now that they have been in service, problems that weren't so obvious in wartime use are beginning to show up. Two different camps seem to have appeared- those championing the venerable and time proven .45, and those searching for new cartridges that will out perform said .45.

I am not just a stick-in-the-mud looking at new cartridges such as the 10mm and .40 S&W and declaring that they can't deliver what the .45 does out of my own inability to change, rather as a Reasonably Knowledgeable Individual who is hearing the problems with the new cartridges on a daily basis. My problem with .40 S&W is that while it mimics some .45 ACP characteristics, it does NOT achieve the same knockdown power. .40 does have it's place in law enforcement, but I do not feel it is in a sub-gun. My problem with 10mm in a handgun is control, and in a subgun, what you might call overkill. Where that awesome 10mm power can turn a concrete hallway into a vegemetic with ricochets, the .45 is more apt to "pancake" and lose it's power (this is very general- but still valid). In the case that - God forbid - you have to shoot another person with that MP5-10, ask that same God to protect anyone behind the walking target. The .45 projectile is known for delivering it's impact through expansion on the person it hits. Quoting some exceptions won't change a proven track record. In real life, marksmanship is not confined to two dimensions. The dimension of "depth" of a target to be negotiated is as real as delivery of the projectile to the precise point you are aiming at. I am expressing a real concern about the ability of the marksman being able to control damage to other persons in a target area. I care a lot about that- most of the people in this industry are not inhuman, they see actual use of these firearms against other people as "In the direst extreme".

When I advise a SWAT team or military op group on firearms, the emphasis is on completing a mission within ALL of it's parameters, not just on overwhelming firepower. Why not issue .50 cal M2-HB machine guns to patrol units if over penetration is not a problem.

Many of the same agencies that championed the 10mm handguns have downsized the propellant in an effort to address the above problems, and many others have dropped the 10mm and returned their field agents to .45 ACP. Your comment about the price coming down as popularity increases won't wash until enough people see staying with 10mm as being to their benefit. .454 Casull would be inexpensive if enough people adopted it, the problem is predicting that they are going to. I think the 10mm may evolve more, and eventually fill the needs of users, but we already have .45 ACP.

It is easy for me to believe that the recoil of the MP-5 10 is controllable, because I have fired Fleming's MP-45 and MP-45K. I know that what you say is true about it being smoothed out by H&K's unique recoil system. One more testimonial to the superiority of your company's product. Innovative manufacturers such as Bill Fleming can't find a better host gun for their experiments. However, I do not agree that target engagement to 200 meters is a valid task for a sub machinegun. That is rifle territory, and answers your question about why some teams carry a 5.56 rifle or shotgun on a mission- these are not subgun situations. Men who carry a subgun and a sidearm are close combat individuals, and many will prefer the subgun and sidearm to be of the same caliber. Forget the police spokesmen and "specialists"- ask the guys in the field. It is easier to carry one caliber. If the job calls for 200m plus shooting, the HK33 (or 32, or G-3) is a much better choice. Let's keep the object in mind here- the MP5-10 is supposed to be a submachine gun, but appears to be over powered. Fleming's MP-45 is still a subgun, plain and simple, and chambered in a long proven caliber. Instead of insisting on the 10mm, perhaps H&K should be talking to Fleming about his MP-45.

Jim, when I get the chance to come to your area, I will definitely stop in. You can make me shoot the MP5-10 and the .40 S&W versions (It won't be hard, I'd love to), then beat me over the head with any more facts and figures you want, I have a lot of respect for you and H&K'S accomplishments. I just think Bill Fleming trumped you on this one, that's all. MGN

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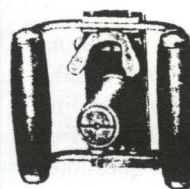


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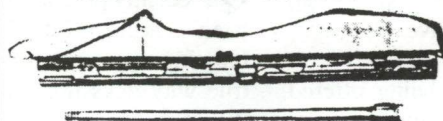
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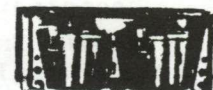
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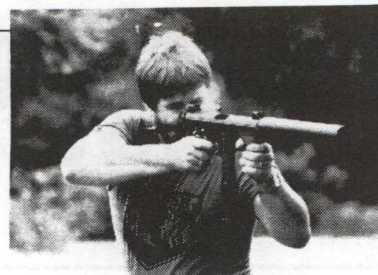
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Raffica

by DAN SHEA



Last month I was touting the virtues of Lloyd Hahn's belt loaders, and have since tried his 1919 belt loading machine hopper - thumbs up, guys. Two things to deal with before the questions: First, Rick Cartledge, the author of last month's Thompson "Roots" article, screwed up big time. He called the little fat guy the "little fat BOY". I was at the Creek in April and watched "the little fat guy" mope around for days. Now that it has been corrected in print, perhaps he will forgive us our faux pas, and become the bright cheerful spark we have come to expect at the Shoots.

Second - there have been many requests from the minions of Raffica for good source of Beretta SMG magazines. I just emptied about 200 rounds from my Beretta Modello 12 using a magazine I got from Curt Wolfe at United Defense Manufacturing Corp. 375 Hertzog Valley Rd. Denver, PA 17517 - Phone (215) 267-7225. Curt made these 25 rounders from Israeli Uzi magazines, and they work in the Beretta 38 series and 12 series including the PM12S. There is quite a bit of re-sizing necessary and it was done nicely. I believe the cost was \$40 each, although Curt and I were horse trading at the time, and it's really hard to remember.

A Public Service Announcement from Rafficaria:

On January 20, 1992 a US Customs Service Steyr Aug fully automatic Assault rifle, serial number USC1007, and a Smith & Wesson 9mm, model 6906, serial number TCU3007 were stolen from a customs vehicle.

Any information contact:

Joseph A. Pimentel
Special Agent-FBI
305-944-9101

16320 N.W. 2nd Ave

N. Miami Beach, FL 33169

A substantial reward is being offered leading to the recovery of the weapon.

Q I am compiling information on the Spitfire carbine. Made by Spitfire Mfg. Co. of Phoenix, Az. I have not found any reference material that mentions, to any extent, the

existence of this firearm. Most Class 3 dealers I've talked to have never heard or seen one tell me to look it up in the aviation book. Do you know anything about the company, how long they were in production, reason for the demise? Who may have owned it or worked there or leads to someone who may know? I would appreciate any help. I own one. It is unfired and like new. It being some 32 years old I am hesitant to shoot it. Not wanting to ruin any collector value. But, I would really like to help revise some of the gun books out there to list the Spitfire in their pages.

Thank You
Michael W.

A Mike, I hate to be the one to tell you this, but that Spitfire is kind of like a MAC as far as collector value goes. I use my Spitfire to show people what not to buy. The Spitfire used an M-1 Thompson Buttstock, an M-3A1 style bolt (stick your finger in and pull it back), a black crackle finish that tends to fall off easily, and uses Grease Gun magazines. In .45 ACP, it has a tendency to malfunction with no provocation whatsoever. I've owned three, and none of them worked reliably. Greg Davis from Armitage had one he tuned up and integrally suppressed - that was pretty neat. As I remember, there was a semi auto version that fired open bolt and was converted to full by installing the full auto parts, which were interchangeable. The government didn't like this. My Spitfire is marked "Semi-Auto" but factory converted to full. They were not select fire. I believe that the "Eagle" was the name of the semi auto version. I hereby appeal to the power of the collective memory of the Rafficarians out there to get all of the answers about Spitfire Manufacturing. I promise to not hurl one down range at the 'Creek.

Q I recently purchased a MG 42 and I have been hearing a lot of stories about them blowing up, is this true? If the stories are true why does this happen? What can be done to prevent this from happening?

Thanks,
Bobby P.

A Yup. MG-42's have a rep for firing out of battery.

MG-42's not being my specialty, I

spoke with Bob Landies from Collector's Corner (216-285-3481) in Chardon Ohio, probably the best known of the MG-42 RKT's. Bob sells parts, repairs MG-42's (among others) and will generally help out on the phone to help shooters stay safe. The boiled down version of the conversation would be that if there is not a problem with the rivets on the rails or the bolster (holds the topcover and regulates headspace), you may experience one of two problems that are avoidable through proper maintenance. First, the firing pin hole should be examined for enlargement. Sometimes the hole gets brass shavings jammed in it and locks the firing pin forward- instant fixed firing pin, which fires the primer on the forward stroke. Blammo. Second, the extraction is started the same time as the primer fires because of bolt bounce, meaning that the bolt is not in position long enough to hold the case in the chamber for propellant expansion. Blammo. In this case, you could have avoided the accident with a rate regulator or anti-bounce device in the bolt ejection rod "spoon". It looks like a small coil spring buffer, and will be obvious by it's absence - don't fire the MG-42 without it or if the firing pin hole is enlarged - replace parts. Bob also suggests that you have the chambers micro-finished on all barrels, and change barrels every 250 rounds of sustained firing. And please be a Do-bee, wear safety glasses and hearing protectors.

Q Two quick questions, what modifications must be done to an M-3 magazine to fit and function in a Mac-10? And concerning belt-fed 5.56 will M-249 links work in a Stoner and vice versa?

Thanks,
Allen

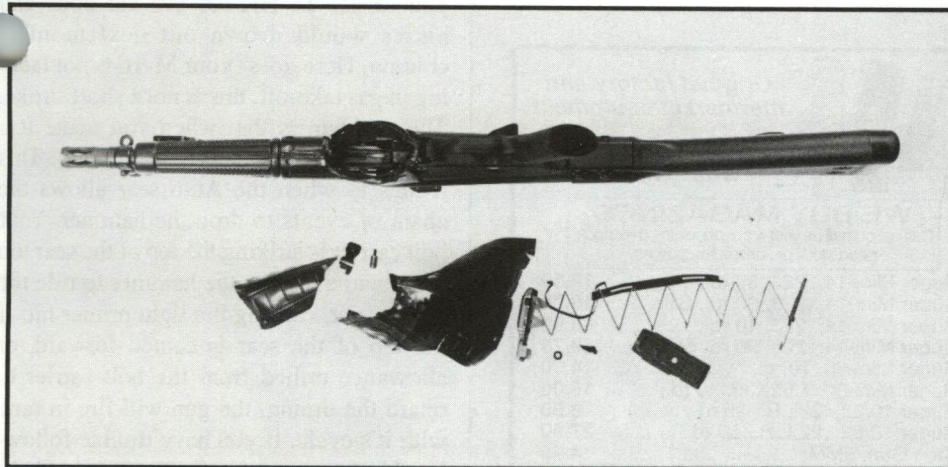
A Two quick answers- mill about 1/32" off the back of the M-3 mag where it seats on the mag release- slide the mag in the MAC, you'll see where I mean. Shave a little at a time until it's right. M-249 links do not work in a Stoner or vice versa.

Q I am a relatively new subscriber and would like to commend you for the excellent information you give out. I am glad there is such a forum for us full auto and suppressor enthusiasts. I have a question for



AMMUNITION WARNING

Century International Arms Inc. has been notified that a number of weapons firing 7.62 millimeter (.308 caliber) rounds of ammunition have exploded upon firing causing rifle barrels to burst, which could result in serious personal injury. The ammunition was manufactured by a Brazilian company named Companhia Brasileira de Cartuchos (CBC) and was imported by at least two companies. Both CBC and Century Arms have issued written warnings to distributors and customers advising them not to sell or use the suspect ammunition, and an effort to recall the ammunition is underway. The cause of the explosions is unknown, but tests are being conducted by several independent laboratories to determine why the ammunition is exploding. Century Arms advises that anyone having the ammunition should contact the person or dealer from whom they purchased it for specific instructions as to return. Under no conditions should the ammunition be fired. CBC has established an information line 1-800-742-1094.



Chamber and lower receiver of HK51 were extensively damaged while firing CBC '75 7.62 x 51 ammunition. Notice that magazine was literally turned inside-out by force of blast. Fortunately, the shooter was unhurt.

you concerning the article in the last MGN about the DeLisle Silent Carbine. It seems to me with all the cheap surplus Enfields and the availability of the Thompson barrels and M1911 magazines, that some enterprising Class 2 mfg. would make a copy of this gun. If it is as quiet as they say, it would make a great weapon to shoot, and should be relatively inexpensive to make. Do you know of anyone making copies of the DeLisle? I also have a problem I need your advice on. I have an SGW registered

receiver M-16 Shorty with an 11.5 barrel and collapsible stock. This weapon fires 100% in semi auto, however, when firing in full auto this weapon will some times fire a burst and then will just stop. Each time it stopped firing the symptoms were the same, the bolt would be closed, there would be a live round with a slightly dented primer in the chamber and the hammer would be in the fired position. It does this 4 or 5 times out of 100 rounds. At first I thought it was a bad firing pin, after replacing it (continues)

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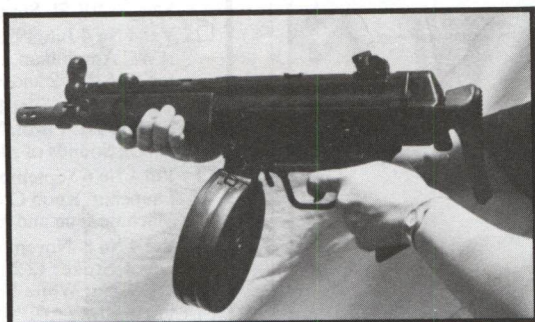
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the problem was the same. I also tried different types of ammo, but that did not work either. I then thought that the problem might be the lower receiver such as a defective auto sear, hammer or disconnecter. I placed another upper receiver assembly with a 20 G.I. barrel onto my lower receiver using the same bolt and bolt carrier from the 11.5 upper receiver and the weapon fired 100%.

The headspace on the 11.5 barrel seems alright and since the bolt carrier cycles far enough to pick up a new round I would assume the gas pressure is sufficient. Somebody suggested that maybe the bolt carrier is bouncing and I should try using a buffer spring from a full length buttstock. My friends and I are stumped on this one. Do you have any suggestions or hints? If I need to Form 5 this to someone for repair who would you recommend? Any help you can give me will be greatly appreciated.

Sincerely,

Steven R.

A ACK! It's the Son of the Return of the Attack of the M-16 Shorty that JUST WON'T WORK! I'd prayed that we were done with this years ago, but, as long as there are M-16's and buzzgunners, there are going to be Shorties.

I could take the easy way out and tell you to get an HK-53, but the boos and hisses would drown out next month's column. Here goes- your M-16 is not lacking in gas take-off, this is not a short stroke. The problem is that when you make it a shorty, you have changed the timing. This relates to when the Auto sear allows the chain of events to drop the hammer. Your bolt carrier is striking the top of the sear too soon, and allowing the hammer to ride the bolt carrier, causing the light primer hit. If the top of the sear is canted forward, or allowance milled from the bolt carrier to retard the timing, the gun will fire in time with it's cycle. If you have trouble following this, have a professional gunsmith do it- there are a number of them out there. Just make sure that he understands full autos. I have Stan Andrews (603-746-4387) in New Hampshire work on my M-16's if I don't have time (normal for me).

That same group of tinkers and Class 2's out there should be thinking about your idea on the Delisle Carbine - it would be neat to see a quality repro done while suppressors are still available!

Questions to:

Dan Shea

c/o MGN

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Scattered Shots

by KEN CARTER

"Laws that forbid the carrying of arms ... disarm only those who are neither inclined nor determined to commit crimes ... Such laws make things worse for the assaulted and better for the assailants; they serve rather to encourage than to prevent homicides, for an unarmed man may be attacked with greater confidence than an armed man." - Thomas Jefferson, quoting criminologist Cesare Beccaria from "On Crimes and Punishments", 1764.

Put ten candles on the cake for Kennesaw, Georgia. The suburban Atlanta township has just marked a full decade since passage of an historic ordinance requiring its citizens to bear arms for "the safety, security and general welfare

of the City and its inhabitants." Excepted are those who object on religious grounds, and convicted felons.

The law, intended as a tongue-in-cheek response to handgun-banning communities like Morton Grove, Illinois, had an almost immediate - and probably unexpected - positive effect: by the end of the first year, residential burglaries in Kennesaw were down by almost 90 percent, as the criminal element, alerted by the media-attention the ordinance received, took their business elsewhere.

In the ensuing decade, crime in Kennesaw has continued a steady decline, despite soaring lawlessness in adjoining Atlanta and elsewhere across the nation. Statistics for 1991 show another 33% drop

in burglaries from the previous year, and a 4% decrease in the overall crime rate; there was only one armed robbery (Morton Grove had a rate 4 times as high) and one rape for the year, and there were no murders at all. In fact, Kennesaw has recorded just two homicides - both knifings - in the ten years since the ordinance was enacted, giving it an average "per 100,000" murder rate for the decade of 2.8, far below the current national average of 9.4, and approximately 1/20th that of adjacent Atlanta. (So much for HCI's claim that the availability of firearms is the root cause of violence.)

Since 1968, numerous cities and states have attempted to reduce crime through the simplistic process of denying their citizens access to guns, rather than coming to terms with more complex issues, such as meaningful punishment for those who defy the rules.

These areas are now among the nation's most malignant. All that was accomplished was to insure that the lawful were made the defenseless prey of the lawless.

Perhaps our nation would be better served to pattern itself more closely after a system that has been shown to work, rather than one that is a proven failure.

Or maybe we should all move to Kennesaw!

A new "weapon of choice"? According to AP, a sandwich shop in Dallas was robbed by a thief armed with a hypodermic syringe he claimed contained AIDS-contaminated blood.

Police Lt. David Ellison said this was apparently the first robbery of its type in the Dallas area, although he had heard of it happening in other parts of the country.

In New York City, they hand out free hypodermic needles to drug addicts.

And, under the heading "New York Bans Assault Bread", *The New Gun Week* reports that it is now illegal in New York State to offer food products in packaging resembling a firearm. The law was reportedly aimed at children's fruit drinks sold in gun-shaped containers.

The prohibition does not apply, however, to alcoholic beverages.

Many of you are familiar with *Gun Week*, of course, but some aren't, so permit us to toss in a plug: if you want to tap into the most up-to-date source of information on what is going on gunwise in Washington and elsewhere around the nation, this is it.

Except for Neal Knox's "Legislative Hotline", which by its nature is somewhat limited, *Gun Week* is by far the quickest way to get comprehensive updates on important news affecting gun owners. With a lag time of only two weeks, the publication usually can get the news of breaking developments to you in time for you to respond, either with letters or phone calls to

ORDINANCE

CITY OF KENNESAW

The City of Kennesaw does hereby adopt an ordinance amending the Code of Ordinances, and particularly Chapter 8, Civil Defense, and Disaster Relief, by adding a new section to be numbered "Section 8-10", as follows:

Section 8-10. In order to provide for the civil defense of the City of Kennesaw, and further in order to provide for and protect the safety, security and general welfare of the City and its inhabitants, pursuant to the Charter of the City of Kennesaw, the following ordinance is adopted, to wit:

- (1) Every head of household residing in the City Limits of the City of Kennesaw is required to maintain a fire arm, together with ammunition therefor.
- (2) Exempt from the effect of said ordinance are those heads of households who suffer a physical disability which would prohibit them from using such a fire arm. Further exempt from the effect of said ordinance are those heads of households who conscientiously oppose fire arms as a result of religious doctrine or belief, or persons convicted of a felony.
- (3) This ordinance shall become effective ten (10) days from the date of adoption.

Darvin R. Purdy
Darvin R. Purdy, Mayor

March 15, 1982

lawmakers, or at the ballot box. And it is a source of information that you will get absolutely nowhere else. When my issue arrives each week, everything generally comes to a halt until I have read it cover-to-cover, including Joe Tartaro's insightful "Hindsight" column. You cannot really be well-informed on gun issues unless you are a *Gun Week* subscriber.

To get on the list, send \$18.00 for one-half year (25 issues) or \$32.00 for a full year's subscription (US) to: *The New Gun Week*, P.O. Box 488, Station C, Buffalo, NY 14209.

Last month, this column strafed those responsible for the Johnnie Lawmaster debacle in Tulsa, Oklahoma, grouping them with agents of another era dubbed the "KGBATF".

In fairness, it should be recognized that there are some straight, even-handed, hardworking ... even pro-gun ... people within the ranks of BATF; to these, the fascists among them are a source of dismay and embarrassment. I had an agent tell me once that his boss, the Agent-In-Charge, believed that "everyone is a crook, he just hasn't caught 'em all yet." This particular AIC delighted in harassing local gun dealers - which made the job of the agent, who depended upon the cooperation of the dealers on a daily basis, extremely difficult. As is often the case, the "street cop" had an attitude that was entirely different than that of "the chief", who, in this instance, had gotten where he was largely by playing politics.

TV Fare to Avoid: *The Fifth Corner*, a weakly scripted saga featuring former "Desperado" Alex McArthur as a brooding, amnesiac hitman with a heart of gold. His love interest is, quote, "a registered Democrat, an environmentalist" and a fearless, crusading reporter who "even took on the gun lobby". Between them, they combat Evil (capitalism) while utilizing gratuitous sex and gun-play to draw a crowd for their anti-establishment sermon.

Has Oliver Stone turned to television?

Quotes: Former Texas governor John Connally, asked his impression of George Bush: "Someone who has spent many years in public service ... and has left few footprints."

Mark Twain: "It can be shown by facts and figures that there is no distinctly native criminal class except Congress."



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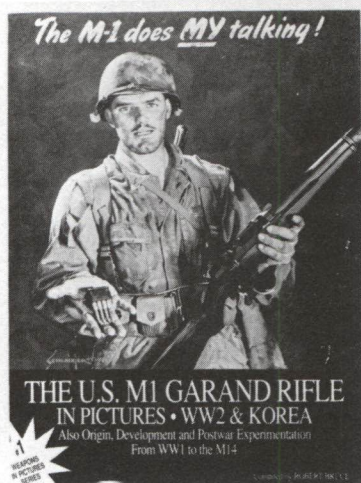
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What's New

by Chris A. Choat



M-1 GARAND RIFLE BOOK

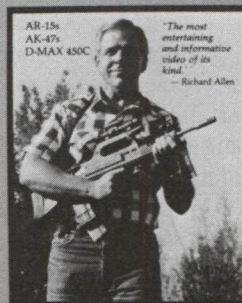
A pictorial tribute to what General Patton called "The greatest battle implement ever devised" is now available from Robert Bruce Photography. The book has 80 pages containing over 300 black and white as well as color archive pictures that documents the history of the M1 Garand rifle. The book covers the rifle from its inception up to and including the M14. There are also chapters on all the variations as well as accessories. All photos are the same archival quality that you have come to associate with the name Robert Bruce. This book is a must for any collector or shooter of the M1. For the guys that carried one, it will bring back a lot of fond as well as unhappy memories. *The M-1 Does My Talking* Is one of the best values ever in a book of this sort. It is a steal for the retail price of only \$12.95. It's available direct from the publisher; Robert Bruce Photography, Dept. MGN, P.O. Box 482-M1, Sandston, VA 23150. His phone number is (804)-746-9445. This book is the first in a series (Weapons in Action #1) with others to follow. The second book, *Thompson Submachine Guns*, is being compiled now.

LEGAL FIREPOWER VIDEO

Just introduced from the Bath Corporation is a unique video that is a complete departure from the usual video formulas. This is a video for the whole family. Champion shooters show "how it's done" with a wide variety of firearms. Legal high rate of fire devices are shown along with state of the art accessories. Ammo, compensators, bipods, lasers and electronic sights are demonstrated. *Legal Firepower/Super Weapon Systems* teaches safe, fun shooting for the whole family. The video is available immediately for only \$44.95. This video will be followed by *SUPER PISTOLS & SUPER SHOTGUNS* which is due to be released in the fall of 1992. For more information or to place an order contact The Bath Corporation, Dept. MGN, 630 Tumbleweed Trail, Jacksonville, OR 97530. Their phone number is (503) 899-7148.

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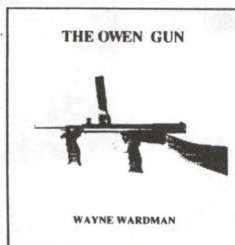


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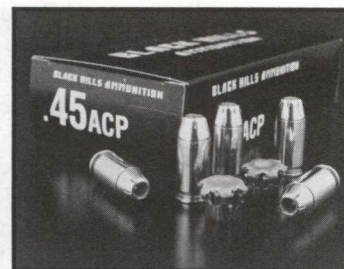


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There is now a book that covers the history of the little known Owen submachine gun. The book is written by Australian author Wayne Wardman. *The Owen Gun* consists of 226 printed pages with 110 photographs and illustrations. It is the first in-depth account of what is arguably Australia's most famous contribution to the world's full-auto firearms. It features very high quality photos and is available in either soft or hard bound form. Prices vary according to the way the book is shipped into the states. For more information contact Wayne Wardman, Dept. MGN, P.O. Box 101, Curtin, ACT, Australia 2605.

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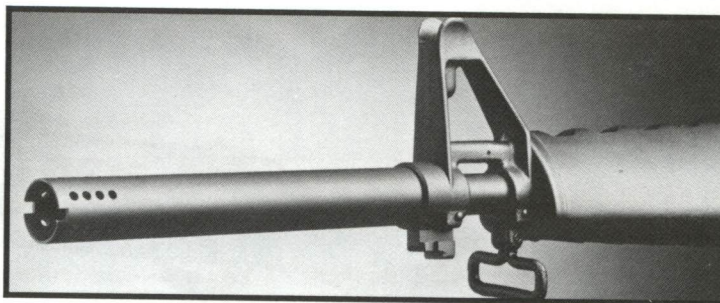
Effective May 1, 1992 Heckler & Koch, Inc., of Sterling, Virginia, will become a wholly owned subsidiary of Royal Ordnance, Inc. This follows the acquisition of Heckler & Koch, GmbH, the parent company in Germany, by Royal Ordnance plc. The present directors of the company have resigned by mutual agreement. On May 1, Mr. Peter McLoughlin, President of Royal Ordnance, Inc., becomes Chairman and Chief Executive and Mr. Stephen Otway becomes the President and General Manager. Mr. Otway, who has a wide experience in the United States small arms industry, is currently Vice President responsible for Law Enforcement and Commercial sales. Mr. Roger Troup, currently an H&K Sales Representative, succeeds Stephen Otway in a newly created position, Director of Commercial and Law Enforcement Sales. Mr. John Meloy remains Vice President of Federal Operations Division.

BACKGROUND

H&K Inc. was a subsidiary of H&K, GmbH, which was acquired by the Royal Ordnance Division of British Aerospace Defence Ltd. in the spring of 1991. As part of the rationalization of activities, the US subsidiary has been put under the control of Royal Ordnance, Inc., based in Arlington, VA. The present Chairman of H&K Inc., Lt. Gen. David Grange, Jr., has agreed to remain on as adviser to the new Chairman. Dr. Florian Deltgen, who has been President since 1984, has elected to leave the company. Mr. Otway, the new President and General Manager, has worked in the US small arms industry for over twenty years and has been very much associated with the recent production growth at H&K Inc. H&K Inc. imports a wide range of H&K weapons, including the world renowned MP-5 9mm submachine gun, and has exclusive US distribution rights for the Benelli and Heym line of sporting guns. H&K Inc. is currently under contract for the development of a new .45 caliber pistol for the US Department of Special Operations Command, Tampa, FL.

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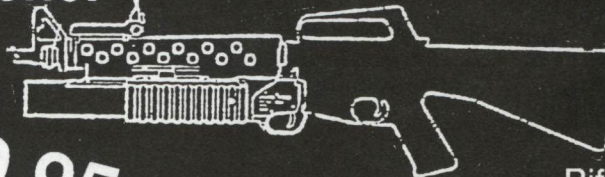
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The MP28,II Submachine Gun

by AL PAULSON AND NOEL NAPOLILLI

Hugo Schmeisser's MP28,II submachine gun and its predecessor - the MP18,I - first provided many of features that were to become commonplace among subsequent submachine gun designs. While Tullio Marengoni's submachine gun based on the VILLAR PEROSA probably saw combat before Schmeisser's design, most authorities still view the MP18,I and MP28,II as the true parents of the submachine gun.

The MP28,II story really begins in 1916 during the Great War before the term "submachine gun" even existed. While the conflict began as a war of movement, a stalemate quickly developed as lines stabilized across the entire front. Soon trenches and bunkers protected by barbed wire, machineguns and artillery provided unprecedented defensive positions. Attempts to breach these new defenses provided unacceptable losses. Yet the attempts continued with appalling loss of life. The stalemate continued.

To understand what Schmeisser's design goals were in 1916, it is necessary to understand how trenched defenses were assaulted. The operation would begin with a sustained artillery barrage. Priority targets included barbed wire in front of the trenches and machinegun emplacements. As the infantry assault began, the barrage would be adjusted to remain a safe distance in front of the advancing troops in the hope of keeping the defenders under cover as long as possible. If the advancing infantry

actually reached the trenches, then the assault degenerated into a chaotic melee for control of the trenches.

While both attackers and defenders were generally armed with bayoneted rifles, the weapons were not ideal for CQB (close quarter battle). The rifles were too big and heavy to use efficiently in confined spaces, and they could not be fired fast enough to engage multiple opponents a few feet away. Pistols, grenades and knives proved handier for this kind of fighting, but clearly a better solution was required. Light machineguns of the day were far too heavy for fighting within the trenched defenses, although they proved quite useful for consolidating and holding captured ground until heavy machine guns could be brought forward.

So there was a clear need for a truly portable, rapid-fire assault gun for CQB. The ammunition should be light enough so a large quantity could be carried by each gunner in the assault echelon without the need for additional individuals to serve as ammunition bearers. And the gun should be capable of fully automatic fire, since the war had clearly demonstrated the demoralizing effect of full-auto fire. While several German officers suggested the value of developing a new intermediate cartridge with ballistics somewhere between a rifle and pistol cartridge, demands on German industry precluded the development of a new class of ammunition. (This concept would resurface in World War II as

the new intermediate cartridge for the MP44/StG44.)

These were the considerations that prompted Hugo Schmeisser to begin work on a fully automatic carbine of pistol caliber in 1916. Since this new class of weapon was a machinegun of pistol caliber, it was named a *Maschinenpistole* or "machine pistol." Work at the Theodor Bergmann Abt. Waffenbau factory at Suhl progressed rapidly. This factory was part of a larger company called Bergmanns Industriewerke G.m.b.H. at Gaggenau. Ironically, Hugo's father (Louis) had once worked at the same factory, where he had designed the belt-fed, water-cooled machineguns patented under Theodor Bergmann's name. The two Schmeissers apparently pursued independent careers, however.

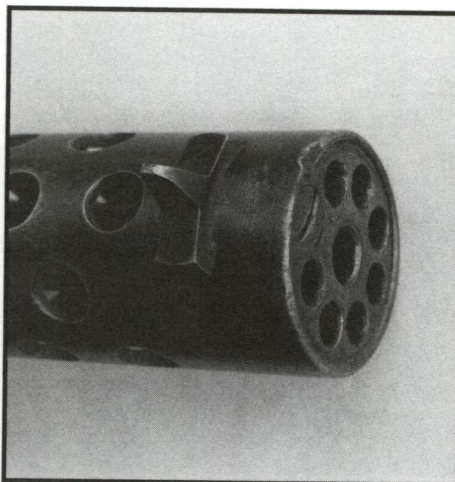
Long before Hugo began as a designer at the Bergmann works, his father had moved on to become the chief designer at the former Dreyse factory in Sommerda, which had just been purchased by the Rheinische Metallwaren- und Maschinenfabrik of Dusseldorf. There, with his assistant Louis Strange, Louis Schmeisser designed a new water-cooled machinegun which was ironically marketed by Rheinmetall in 1912 as the "Dreyse machinegun." Louis Strange became the chief designer at the Sommerda works in 1917 when Louis Schmeisser died, and Strange continued to improve the Dreyse

concept as Hugo Schmeisser's work began to bear fruit.

Hugo Schmeisser's first test guns were completed early in 1918, so this first variant was named the Maschinenpistole 18 or MP18. The production variant incorporated a few changes, and so was named the MP18.I.

Strictly speaking, this was the first straight-blowback submachine gun, and nearly every subsequent design incorporates some feature that first appeared on this gun. Its general characteristics are listed in Table 1. As the archetypal first generation submachine gun, the MP18.I is constructed of machined parts. Nevertheless, it was relatively inexpensive to make, since it did not require the complex milling of many subsequent designs. The gun was simple, economical, robust, and highly effective.

The gun's magazine was another matter. The snail drum was originally developed for long-barrelled Lugers with detachable stocks. Schmeisser adopted the snail drum because it was the only large-capacity 9mm magazine then in production. Unfortunately, the drum was complex, expensive, fragile and required a special loader. Furthermore, the magazine was awkward and heavy and slow to load. And the drum required that an adapter be added to the straight extension of the drum so the feed lips wouldn't protrude into the receiver and interfere with bolt movement. Thus was born a central theme of sub-



Details of the barrel jacket and front sight.

machine gun design that continues until this day: magazine problems. Magazines seem to cause more problems than any other aspect of submachine gun design.

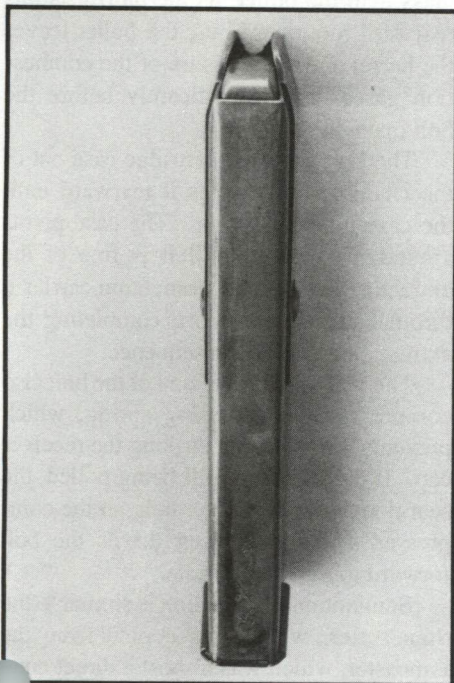
The MP18.I began to appear on all fronts in the summer of 1918. The storm troopers loved it. About 35,000 guns were produced before the armistice on November 11. An interesting footnote to the Treaty of Versailles is that the Allies were so intimidated by the MP18.I during the war, that they prohibited the gun's

Table 1. General characteristics of the Bergmann MP18.I submachine gun.

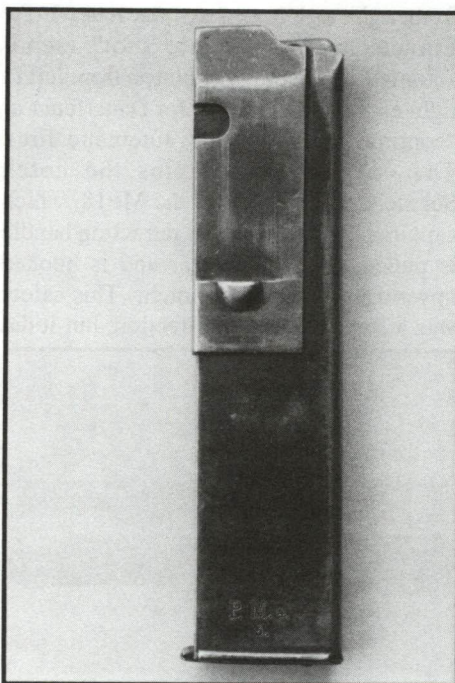
Caliber	9mm Parabellum
System of operation	blowback, open bolt, full-auto only
Cyclic rate	350-450 rpm
Weight	9.2 lb (4.2 kg)
Feed device	Luger 32-round snail drum
Length overall,,	32.1 in (81.5 cm)
Barrel length	7.9 in (20.0 cm)
Front sight	blade
Rear sight	open V-notch L-type flip sight, set for 100 and 200 meters

Table 2. General characteristics of the MP28.II submachine gun.

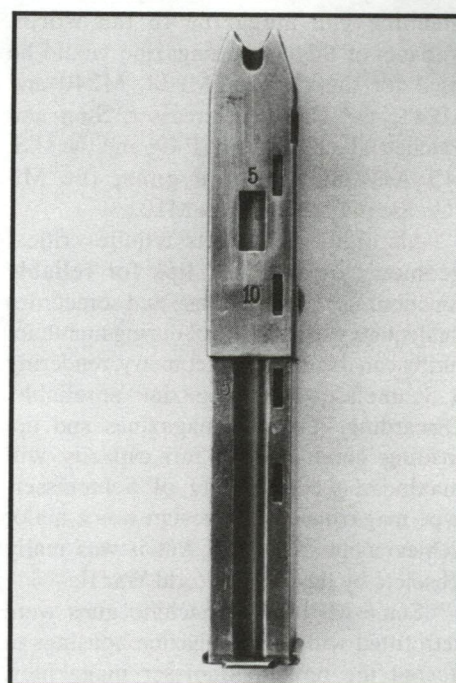
Caliber	7.63mm Mauser, 7.65mm Parabellum, 9mm Parabellum, 9mm Bergmann Bayard, .45 caliber ACP
System of operation	blowback, open bolt, selective fire
Cyclic rate	500 rpm
Weight	8.8 lb (4.0 kg)
Feed device	single-position feed box magazine: 20, 32 and 50 rounds in most calibers, 25 rounds in .45 ACP
Length overall,,	32.0 in (81.2 cm)
Barrel length	7.9 in (20.0 cm)
Front sight	blade
Rear sight	open V-notch tangent, adjustable from 100 to 1,000 meters in 100 m increments



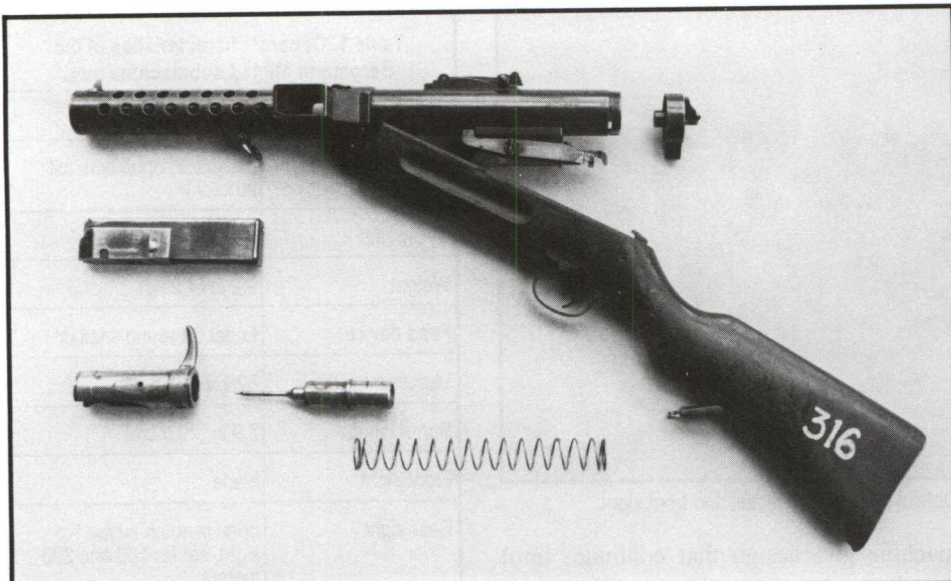
Hugo Schmeisser designed a double-column, single-position feed magazine for the MP28.II that would ultimately become the most prolific submachine gun magazine in the world.



Side view of the Schmeisser MP28.II magazine.



Rear view of the Schmeisser MP28.II magazine.



The MP28,II fieldstrips into 6 components.

use by the 100,000-man German army which was permitted by the treaty. Only the German police were allowed to use the MP18,I in small numbers. Most guns were provided to police units in 1920, and these police guns have "1920" stamped on top of the receiver.

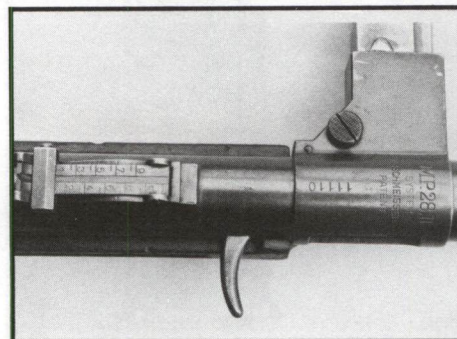
After the war, two different strategies were used to solve the problems encountered with the snail drum magazine. Bergmann licensed the manufacture of the MP18,I in Switzerland with a straight, double-column, double-position feed box magazine. This design was inspired by a Bergmann pistol magazine. And Hugo Schmeisser designed a double-column, single-position feed magazine that would ultimately become the most prolific submachine gun magazine in the world. Variants of this 9mm magazine would be used for the German MP38, MP40 and MP41; the British Lancaster, Sten and Patchett; the French MAT 49; and the U.S. .45 ACP submachine guns, the M3 "Greasegun" and Ingram M10.

All of these variants require critical geometry of the feed lips for reliable functioning. Hard field use and sometimes inadequate quality control during manufacturing can degrade this geometry, rendering a Schmeisser-type magazine unreliable. Discarding defective magazines and not loading good ones to full capacity will maximize the reliability of Schmeisser-type magazines. This design was a major achievement in its day, but it was really obsolete by the end of World War II.

Some MP18,I submachine guns were retrofitted with new magazine housings to accept the new Schmeisser magazines. Then Hugo Schmeisser updated the gun in the late 1920s and incorporated the new

magazine, creating the MP28,II submachine gun. The general characteristics of the MP28,II are listed in Table 2. The new gun was manufactured by C.G. Haenel Waffenfabrik in Suhl, Germany. The words "System Schmeisser Patent" appear on the top of the magazine collar of weapons produced in Suhl. The magazines are usually stamped "DRP Schmeisser".

Improvements incorporated into the MP28,II include a tangent rear sight, redesigned firing pin, and a larger diameter operating spring. In order to increase the weapon's effective range, a selector was added to permit semiautomatic fire against distant targets. The selector is a button located just above the trigger guard in a depression in the stock. Pushing the button from right to left exposes the letter E for Einzelschuss or "single shot" (semiautomatic). Pushing the button from left to right exposes the letter D for Dauerfeuer or "continuous fire" (fully automatic fire). The only safety remains the notch Schmeisser designed for the MP18, which captures the bolt when its retracting handle is pulled fully to the rear and is hooked upward into the safety notch. This safety was a step in the right direction, but it did



Details of the engraving, magazine release, cocking handle, and tangent sight.

not prove to be foolproof. Furthermore, the gun can fire if dropped with a loaded magazine inserted and the bolt forward.

Since the MP18,I and MP28,II were really the first truly straight-blowback submachine guns, and since this has become the dominant operating system for subsequent submachine gun designs, we should probably review how the straight-blowback system works.

The straight-blowback system fires from an open bolt. Drawing the bolt-retracting handle to the rear compressed the operating (recoil) spring until the sear engages a notch on the bolt, which holds the bolt in the open or cocked position. A loaded magazine is then inserted. The magazine spring forces the first round against the magazine's feed lips, which position the round into the bolt's path.

The following sequence describes the function of the MP28,II with the selector set for full-auto fire as well as the MP18,I submachine gun (which is full-auto only). Pulling the trigger causes the sear to disengage from the bolt. The compressed operating spring then pushes the bolt forward, stripping a round from the magazine into the chamber. The firing pin strikes the primer. The extractor snaps over the cartridge rim. And the cartridge fires.

Expanding combustion gases drive the bullet down the barrel and the case rearward against the bolt face, driving the bolt rearward. Since the bolt has much more mass than the bullet, its inertia resists this rearward motion. Thus, the bullet leaves the barrel and the pressure of the combustion gases drops significantly before the bolt opens.

The bolt pulls the cartridge case out of the chamber and carries it rearward until the case hits the ejector. The case pivots around the ejector until it is free of the extractor, and then its momentum carries it through the ejection port, completing the extraction and ejection sequence.

The rearward movement of the bolt also compresses the operating spring, which prevents the bolt from striking the receiver cap. If the trigger is still being pulled, the sear does not engage the bolt, so the compressed operating spring drives the bolt forward to repeat the cycle.

Semiautomatic function is similar to the Sten series, which was copied from the Lancaster, which was almost a direct copy of the MP28. They all share a trip lever that is activated by the bolt to disengage the trigger from the sear. But the MP28 system is more elegant. All of the MP28's parts are

beautifully machined and hand lapped for a precise fit.

The primary difference in function between the MP28 and the Sten is that the MP28's trip lever has a hinged portion to the rear which can engage or disengage the trigger, depending on the selector setting. The Sten selector, however, moves a stamped metal trip lever in or out of the way of the bolt.

To fieldstrip the MP28, begin as always by removing the magazine and clearing the weapon. Press the disassembly catch at the rear of the receiver and push down on the stock, which will pivot away from the receiver on a hinge located at the front of the stock. Push in the receiver cap and twist to the left until the cap can be removed. Withdraw the operating spring and bolt from the rear of the receiver. The bolt is disassembled much like an MP38/MP40. The firing pin assembly simply slides out of a hollow recess in the bolt.

No further disassembly is required. (If one needs to remove the extractor, the procedure is exactly the same as for an MP38/MP40, since the extractor of this later series was copied from the MP28.) Reassemble in reverse order.

Clearly, the MP28,II is a simple

design—simpler, in fact, than many designs that would soon follow. It also handles well. The MP28,II is well balanced and heavy enough to control easily on full auto. It is less kind when fired on semi-automatic. The heavy bolt and long throw make accurate single shots difficult. The selector is well placed and easy to manipulate. The stock with its full pistol grip is well designed and comfortable. It is so good that the stock was later incorporated into the outstanding MP41 (which we'll discuss in a forthcoming issue of MGN). The MP28, II is easy to fieldstrip and clean, and the gun is reliable.

The gun's principal liabilities are its sights and the side-mounted magazine. The rear sight is a V notch, while the front sight is an inverted V blade. Target acquisition is very slow with such sights, which are typical of the period. Many shooters find that the weight of the side-mounted magazine, especially the 30-round variant, throws off the balance of the gun making it awkward to handle. This arrangement is appreciated, however, when firing from the prone position.

The first major sale of the MP28,II was made to Portugal in 1929, where it was used in 7.65mm Parabellum as a police weapon. This variant was adopted as the

m/929. The conventional 9mm Parabellum model was adopted by the Belgian army in 1934 as the Mitraillette Model 34. The MP28,II was also sold to a variety of Latin American countries, where it was used by both sides (especially Bolivia) during the Chaco War, which raged through the 100,000 square miles of the Gran Chaco wasteland between Bolivia and Paraguay from 1932 to 1935. It's major combat role, however, came during the Spanish civil war from 1936 to 1939. It was later used extensively by German police. The MP28,II was even used by SS police units, but it was never officially adopted by the German army.

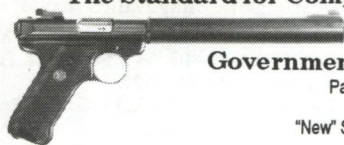
Besides production by C.G. Haenel Waffenfabrik in Suhl, the MP28,II was produced under license by Anciens Etablissement Pieper S.A. in Herstal Belgium. The gun was also produced in Spain. Spanish guns can be distinguished by their very large bolt-retracting handles. Production of the MP28,II ceased in the late 1930s with the advent of new designs.

The key importance of the MP28,II is not how widely it was adopted and used, but rather its role as the archetypal sub-machine gun, the prototype which inspired to one degree or another every submachine gun that has followed to this very day. MGN

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FLEMING'S MP-5/HK-94 .22 SUB-CAL KIT

by DAN SHEA



SP-89 with Fleming .22 Kit

MGN has mentioned in various articles sub-caliber units for the H&K MP-5 .22 kit. Said rare beast commands a value in the \$1000+ range, less than 200 having been brought into the country. Unfortunately, the kit did not work in full auto, without a lot of modification. We are now pleased to tell all of you H&K enthusiasts that Fleming Firearms Inc. has a working kit on the market!

The kit is the culmination of five years of effort on the part of Bill Fleming and his design team. Fleming wanted a kit that would provide reliable full auto fire as well as semi auto, and waited until the bolt bounce problems were ironed out before going into production. Bolt bounce is the nightmare of full auto .22 LR in closed bolt fire. This is when the hammer runs into the bolt as it unintentionally recoils off of the chamber end on the return stroke, resulting in a light hammer strike similar to a short stroke. Fleming has successfully engineered the bolt bounce out of his design.

The kit consists of a bolt/carrier combination made of 4130 steel heat treated for long life and durability, with a parkerized finish, a 9" barrel sleeve (4" in the "K" kit) of 4130, a recoil guide with two springs, and a magazine. The outer spring holds the bolt carrier forward and works the .22 kit.

The inner spring is for the charging handle operation. The magazine lips are milled 4130, heat treated, and the magazine body is made of 4130 also, similar in size to a 9mm magazine. The magazine holds 20 rounds, Fleming says they will have a 30 rounder in the near future. The internal of the magazine is a 6061 T-6 aluminum extrusion, with the follower milled from 6061 T-6.

I used four types of ammunition for the test. PMC Sidewinder 50's and Federal Hi-power seem to work the best, experiencing no jams in 300 rounds of each fired. (Not strictly true - when I first put the kit together, I couldn't get anything to work. Then I disassembled my MP-5 and cleaned the 9mm chamber - the barrel sleeve had not been seated properly because of dirt. After reassembly, everything worked fine.) I tried PMC Zappers and Remington Yellow Jackets with little success, but these are both hollow point bullets, and Bill Fleming told me that hollow points will have a feed problem. They did. Standard velocity ammunition also was unreliable, and I asked Bill about it. He indicated that the spring tension could be adjusted down for people who wanted to use subsonic loads reliably on full auto. They cycled fine on semi auto. I spent a good part of my day shooting the

.22 kit in my MP-5. (Out the office window, while talking on the phone, if the truth be known!) Most of the time with an AWC TAC-9 suppressor on it, which was extremely quiet. The 9" barrel sleeve covers most of the ports in an MP-5SD barrel, but still leaves about 4 1/2" of suppressor to take the edge off of the noise. I was considering using the 4" "K" barrel sleeve in the SD model, to lower the .22 to subsonic and utilize more of the suppression, but I didn't have one handy. The cyclic rate ranged from 795 rpm with Federal to 829 rpm with PMC sidewinder 50's, as measured with a P.A.C.T. Timer.

Overall - highly recommend it - another thumbs up for Fleming. I could never see paying \$1000 for a kit that wouldn't fire full auto, and now that there is a \$350 kit on the market that does, it opens a lot of doors. From the department that wants to reduce training costs or make their MP-5SD double on animal pest removal, to the blaster on a budget, this kit makes a lot of sense. And is a load of fun!

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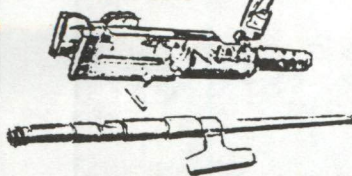


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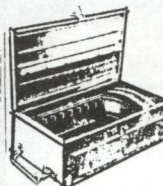
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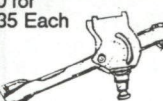
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Neal Knox Interview: The NRA Annual Meeting



At the NRA Annual Meetings in Salt Lake City April 24-25, a full slate of candidates backed by Neal Knox and other hardline supporters of the Second Amendment were seated, virtually assuring that the aggressive policies begun by "The New NRA" this past year will continue. In an interview with MGN's Ken Carter, Knox discusses some of the changes already in effect, and what is to come.

MGN: Last year, when you were re-elected to the NRA Board of Directors after an absence of several years, you took a slate of 11 hardline candidates in with you. I understand that the Hardliners had an even greater success this year?

KNOX: That's correct. We ran 17 petitioned candidates and elected all 17. In addition, I had endorsed or patted on the back nine candidates. Eight of those were elected, so it was the closest thing to an election sweep that I'm likely to see in my lifetime.

MGN: As you know, MGN endorsed a slate of 27 candidates for the 25 board positions that included those you backed along with several others, including some who were endorsed by Robert K. Brown of *Soldier of Fortune* magazine. Out of those 27, I understand that 24 were elected to the Board of Directors, and a 25th was picked to fill an unexpired one-year term.

KNOX: That's right, except I think it was a two-year rather than a one-year term. Phil Johnston had resigned from the board to go to work as a field rep. The next person in line fills that two-year term, and that person was Bill Stegkemper.

MGN: Backing up a little, how has last year's slate of candidates that was seated in San Antonio impacted NRA policy? In other words, what changes have taken place in the past year that you can attribute to the shift in strength on the Board of Directors?

KNOX: The most immediate impact was the resignation of J. Warren Cassidy. As early as February of last year, certain ones in the hierarchy were, as always, able to get an interim vote count, which showed that there was going to be a major shift on the board - that our people, somewhere around a dozen of us, were likely to be elected. Knowing he probably would not be re-

elected, Cassidy immediately made a deal to leave and accept a consultant position, letting him leave with honor and a few extra bucks in his bank account. This was the same deal, by the way, that he had turned down just a month before.

MGN: Was there anything else?

KNOX: One thing that occurred in San Antonio was that the vote on Wayne Ross was basically a test of strength, to determine who was going to be the First Vice President, putting that person in line to be named President at this year's annual meeting. We won a 38-35 vote against him, which showed where the power was. Any time that the power has shifted that way, then there are

all kinds of other votes that go with the power, certain things that would normally be contested, but if you're going to lose, and you know you're going to lose, you just lay back in the woods and don't fight it. One of those things was that, over the objection of the old power base, we elected Wayne LaPierre as Executive Vice President. He would not have been elected if those changes hadn't occurred. And because we were backing Wayne, he was able to implement very

major changes throughout the year that he would not have been able to implement. In fact, if our group hadn't been elected, Cassidy would have still been there. But even if he had resigned, the new EVP would not have been Wayne LaPierre.

MGN: Under LaPierre, NRA has obviously taken an aggressive stand on the Second Amendment, and has instituted some new programs, like CrimeStrike, that have the potential to be very effective. What is your assessment of CrimeStrike?

KNOX: It is still being developed and expanded, but they're

"The only reason people join NRA is to defend their gun rights in order to do something with those guns. I don't care if the guy is a collector, a bullseye competitor ... or a machine gun shooter!"

trying to make it not merely a P.R. effort, but a real effort. They're forming alliances with other groups with concerns about the crime rate and the way that judges are coddling criminals; they're trying to develop and work with groups that have court-watch programs...

MGN: Victims' rights?

KNOX: That's right, they're looking at victims' rights. People and organizations that have a parallel interest are getting a powerful ally in NRA. NRA is hated and feared in a lot of quarters, and for NRA to put its arms around some of these causes is having a major positive impact upon some of those groups. They are glad to have NRA, and at the same time, NRA is able to show that it is clearly running right there with the groups working to resolve crime problems. As a matter of history, after we had succeeded in electing a friendlier administration back in 1981, when I was director of ILA [Institute for Legislative Action], there was an effort to address the basic crime problem. We were slapped down by the directors; they said, "Well, NRA can't get into that", and I wasn't allowed to pursue it. I think that Wayne would have had the same kind of problem if it hadn't been for this significant change in the board.

MGN: A lot of reference has been made to the "Hardliners" versus the "Old Guard". What do you see as the main difference between those two groups, where important issues are concerned?

KNOX: The most important difference is that the Hardliners see NRA as an organization with a mission to perform: protecting the Second Amendment. A means to an end. The Old Guard, those who have been part of the NRA for all these many years and are made up of highpower shooters, smallbore shooters or whatever, and don't really like getting involved with legislation too much ... to them, NRA itself is the end. For a lot of these guys being weeded off the board right now, their primary goal has been to stay on the board, to enjoy the fellowship. This doesn't mean that they aren't good people, but it does mean that the most important thing to them is the organization, itself, rather than the organization's mission.

MGN: There have been charges by some of these members that your group wants to abolish some of NRA's shooting programs in favor of directing more attention, and money, to ILA.

KNOX: There were some very angry people among our candidates from this year, and those elected last year, that it would be said that they wanted to abolish the shooting sports and the training programs ... all the good things that NRA has been doing for many years. Many of the people we've brought in are NRA-style shooters like Bill Davis of Georgia, a Distinguished Pistol shot who set 31 records in silhouette shooting last year. I've hunted on four continents, and I'm a former NBRSA National Benchrest Champion. The point is, we are hunters and shooters, but we are also legislatively oriented. It is absolutely outrageous to say that we're going to cut down or eliminate NRA shooting programs. What we do say is that we would like to see a modernizing of NRA shooting programs to attract and hold the Nintendo

"I would say that, with the majority of the present board, machine gun collectors are respected as such, and are not looked upon as kooks and nuts ... I can't offhand think of any members who are Class III or Title Two owners, but I can say without the slightest hesitation that there are those who wouldn't bat an eye about becoming one."

generation. The old games that were developed in the '20's and '30's - getting buckled up in your shooting jacket, lying down prone and popping at a small bull at 50 feet or 100 or 200 yards, where no one can tell what's going on but the shooter or the spotter - those games don't attract the interest of the present generation, without whom the shooting sports will eventually die out. Bob Corbin, who was elected president of NRA in Salt Lake, is not an old-style NRA competitor, but is definitely a shooter and a defender of the

Second Amendment, and he'll do NRA proud. I have recommended to him that he appoint a committee of knowledgeable shooters to adopt or adapt or develop an entirely new shooting program so that we can get these new shooters interested. You cannot have a three million member political organization; that would be a political party! The only reason people join NRA is to defend their gun rights in order to do something with those guns. I don't care if the guy is a collector, a bullseye competitor, or a plain old .22 beer can plinker...

MGN: Or a machine gun shooter?

KNOX: Or a machine gun shooter! Whatever his area of interest, he wants to keep doing it, and that's why he belongs to NRA. If we're going to hold together our organization and make it bigger and more powerful like LaPierre is talking about - reach three million members again, and then go on up to four and to five, its very do'able - if we're going to do those things, we've got to have better programs. More programs, not fewer programs. We've also got to have more places where we can shoot, and that's why I'm going to more-than-likely request that I be on the range development committee. There's nothing more important.

MGN: The NRA's Annual Meetings in Salt Lake City recently concluded. You've already mentioned Corbin's election as President for the coming year. What other big news came out of this year's convention?

KNOX: Michael Gardner, the president of NBC News, had an article in *USA Today* where he said that no one except police or the military should have handguns, and that he wanted to repeal the Second Amendment. Over the next month, he'll be using his position to try to achieve that; they'll launch a full-scale attack upon the Second Amendment. We know that NBC is going to be doing a number on us, too, and this time, NRA is going to be ready. You're going to see some ads where we're taking on the media ... a positive counter-strike. They haven't seen this kind of hit coming back from NRA, but it's going to be a significant hit, and I think the members are going to be delighted that NRA is at least trying to counter the lies. Also significant this year is that the people we brought on board provided a shift in power that truly broke the back of the Old Guard. And people that our coalition supported were elected to the nominating committee, which means that in the future you'll be seeing a much broader category of directors and director candidates, and probably fewer incumbents, being recommended by the nominating committee.



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MGN: It seems that many people in the machine gun world have renewed faith in the National Rifle Association. Most, I'm sure, approve of the aggressive action being taken under LaPierre. In the past, though, there was a strong impression that the NRA hierarchy considered us the "ugly stepchildren" of the gun world ... an embarrassment to them. Given the changes on the board, do you feel that this attitude has improved?

KNOX: I would say that, with the majority of the present board, machine gun collectors are respected as such, and are not looked upon as kooks and nuts. How much of that difference in attitude can be translated into legislative changes, I don't know. I can't offhand think of any members who are Class III or Title Two owners, but I can say without the slightest hesitation that there are those who wouldn't bat an eye about becoming one. They are the same kind of folks who are machine gun shooters and collectors.

MGN: The obvious indication there is that the machine gun community needs to get active and run someone for the Board of Directors.

KNOX: That, too. But bear in mind that the NRA is much changed. It's not enough to have people on who are simply legislative activists. NRA is a million dollar business, and we need to have people on the board who have the kind of business smarts necessary to run the organization.

MGN: Neal, thank you for your time. Do you have any parting thought you'd like to leave with *Machine Gun News* readers?

KNOX: Welcome to the New NRA.

MGN

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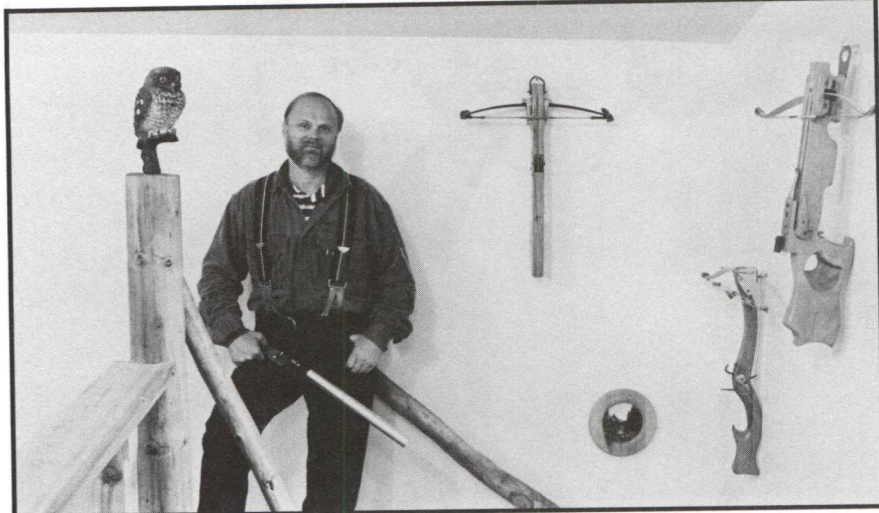
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Mark White and his Suppressed .45 Caliber Carbine

by AL PAULSON



Mark White's interest in making stealthy weapons began with the crossbow.

Suppressing the Marlin Camp Carbine provides an excellent sporting and tactical tool, as Mark Moritz observed in his fine article on the Precision Arms (now Silent Options) suppressed carbine in the September 1991 issue of MGN. I will introduce another manufacturer of suppressed Camp Carbines and provide some additional analysis of the Camp Carbine's strengths and weaknesses. Finally, we'll discuss one view of the theoretically optimum, suppressed tactical carbine.

While Mark White is widely known in the realms of boat and home design, he is relatively unknown outside Alaska in the realms of rifle and suppressor design. White is one of those rare birds who can properly be termed a Renaissance Man. He's published scores of articles in national magazines on designing motor and sail boats, fine woodworking, designing machines for advanced woodworking, and building quick-to-erect and economical structures for home and industry. He's written three books: Making and Modifying

Machines; Superinsulated Truss-Frame House Construction; and Building the St. Pierre Dory. He taught college in Kodiak, Alaska, for many years. And he had a radio program on the interesting origins of words. White has also worked as an artist, as well as a builder of rifles and knives for the needs of the Alaskan bush.

Throughout it all, he's had a love affair with stealth... the ability to quietly make things happen at a distance. He started by making museum-grade reproductions of crossbows from all periods of history. He then designed innovative crossbows using modern technology.

Finally, White's interests in stealth evolved into suppressor design. He called his company Sound Technology. He has thusfar only built suppressors for Alaskans, who seem to really like his work. As Polly Walter noted in the December 1991 issue of MGN, Mark White's suppressed .45 Camp Carbine was the quietest .45 suppressor tested. See Table 1 to compare net sound reductions in decibels of several .45

ACP suppressors cited in Polly's article and new data in Table 2 to compare these sound reductions expressed as fractions of the original (unsuppressed) sound pressure levels. White's suppressed carbine produces only 1/1,000 the pressure level of an unsuppressed carbine.

I first visited Mark White in Kodiak a number of years ago and provided him with sound analysis of his wares. His suppressors were rather unique coaxial designs — essentially suppressors within suppressors. Early prototypes, as one would expect, tended to provide modest suppression in a fairly heavy package. His second-generation suppressors were much lighter and quieter. His most recent design for the Camp Carbine provides nothing less than outstanding suppression. White's Camp Carbine is also unusually ac-



The Sound Technology suppressed Marlin Camp carbine produces only 1/1,000 the sound pressure level of an unsuppressed carbine. The folding stock reduces system weight by about a pound.

curate, thanks to White's barrel-tensioning system, which he developed many years ago to accurize light-weight bush rifles.

A big problem with the .45 caliber Camp Carbine is a lack of quality control on the barrels. In my experience, some shoot very well while some provide disappointing accuracy. I asked White about his experience with the Marlin's accuracy.

He said that "those Camps that were not accurate out of the box had bent barrels. One barrel was almost a half inch out of true when spun between centers. Those Camps that shot well (out of the box) shot even better after being suppressed, thanks to my barrel-tensioning system. I've tested nine suppressed .45 caliber Marlin's for accuracy, and most were capable of putting ten shots into one ragged hole at 50 yards with almost any ammo. That assumes using a good scope, heavy sandbags and a good bench rest."

White agrees with Moritz's comments on .45 velocity, saying "his results were very similar to my own. The difference in velocity produced by 5-inch and 16-inch barrels is academic with a 230 grain slug propelled by 3-5 grains of fast-burning powder. But sometimes a long barrel does produce lower velocities. My suppressed carbines don't drop projectile velocities below those produced by a Colt pistol because most of the action takes place within the first 3-5 inches of the barrel with the .45 ACP cartridge."

He has experimented with shorter barrels on the Camp carbine, but these provided no better sound suppression. Accuracy tended to improve, however, if the bent portion of an inferior barrel was removed. As a general rule, however, White believes that the potential gain in accuracy does not justify the added \$200 transfer tax for a short-barrelled rifle.

Another limiting factor on the Marlin's accuracy potential is its trigger. Never wonderful, some are decidedly better than others. White does not recommend "doing too much to the trigger, other than simply buffing the surfaces. The slamming and jarring that the action takes with hot loads preclude altering the sear angles and springs."

The Camp Carbine also seems heavier than necessary. Mark says that "some of the Camps we worked with weighed over 9 pounds. The hardwood stock — usually beech — is admittedly heavy, but the real sinner is the barrel, which weighs over 3 pounds. By contrast, the Colt Model 1911's barrel weighs between 3 and 5 ounces. Clearly, there is room for improvement here. A foldable plastic stock will shed at least a pound, but at the cost of a good deal of rigidity."

The Camp Carbine has more serious tactical liabilities than its weight. The gun must be disassembled and cleaned frequently to maintain its reliability. "Put it back together improperly," White warns, "which is easy to do, and the carbine will fail to feed." A much more serious liability is that the Camp Carbine does not like hot loads. Mark has found that ammo "just a little hotter than normal can cause the hammer to recoil beyond the point of no return. The rifle will then refuse to fire until it has been disassembled and the problem has been corrected."

Yet, in spite of all these eccentricities, I still own both suppressed and unsuppressed Camp Carbines in .45 ACP — for essentially the same reasons Mark Moritz likes the carbine. Mark White's view of the Marlin is a bit more tempered, however, even though his clients love his suppressed version.

"The suppressed Camp Carbine is popular for two reasons," White says. "It is the only rifle currently available that shoots the .45 ACP cartridge. And it has no necessary parts ahead of the action, which means that it is relatively easy to install an integral suppressor. Most other rifles chambered for a heavy pistol cartridge have a tubular magazine extending under the barrel, which gets in the way of the can. While this problem can be engineered around, I don't know anyone who wants to do this on a production basis."

White and I agree with Moritz that there is a critical need in the industry for a light, handy, sturdy suppressed rifle that will shoot a heavy projectile of large diameter at subsonic velocity. The .45 ACP, .45 "Long" Colt and .44 Magnum seem to hold the most promise for pushing a 230-400 grain projectile at about 1,000 feet per second.

Mark White believes the best possible system would have "a bore diameter between .40 and .60 caliber using a cartridge case of small capacity filled with a small charge of

clean-burning powder. Bullet weight would fall somewhere between 300 and 900 grains. The ideal weapon would have a locked breach, a tight chamber with little or no freebore, and a fairly short barrel (perhaps 16 inches) with a long integral suppressor of generous diameter."

To obtain the maximum power and efficiency from a subsonic round, White favors a heavy bullet, which "will increase chamber pressure substantially more than a light projectile. A tight case crimp and a bullet diameter one or two thousandths larger than normal will increase resistance to movement of the projectile down the bore. This will delay the bullet exiting the cartridge/chamber area by a few microseconds. A cartridge of small case capacity (like the .45 ACP and unlike the 45/70) will also increase pressure by reducing the expansive reservoir.

"With a cartridge like the .45 ACP pushing a 230 grain projectile," White says, "the pressure curve is extremely steep, dropping rapidly as the bullet begins to accelerate. The burning rate decreases as the gas begins to expand. It helps to imagine almost all of the burning action taking place while the projectile is restrained within the cartridge case. Only the gas generated there will have much to do with accelerating the bullet. In truth, burning does take place beyond the chamber area. But not much beyond, as we would see a sub-



Mark White's .58 caliber subsonic pistol round (right) features a 550 grain bullet, while the .45 ACP (center) features a 230 grain bullet, and the Samson 9mm subsonic features a 158 grain bullet. White's case head is stamped "WHITE 58 AUTO".



The "White .58 Auto" compared to a .58 caliber, 478 grain Minnie ball and an aluminum model of a .58 caliber semi-wadcutter (which would weigh 577 grains in lead) designed for White's pistol round.

Table 1. Net sound reduction in decibels of .45 ACP carbine and submachine gun suppressors using Winchester USA 230 grain FMJ ammunition.

Gun	Suppressor	Net Sound Reduction	Temperature (degrees F)
Marlin Camp Carbine	Sound Technology	30	78
Marlin Camp Carbine	Precision Arms SR45	18	68
R.P.B. M10 smg	Cobray M10	17	62
Reising Model 50 smg	Maxim Model 1910	22	62

Table 2.. Net sound reductions, expressed as fractions of the original (unsuppressed) sound pressure levels, of .45 ACP carbine and submachine gun suppressors using Winchester USA 230 grain FMJ ammunition.

Gun	Suppressor	Net Sound Reduction	Temperature (degrees F)
Marlin Camp Carbine	Sound Technology	1/1,000	78
Marlin Camp Carbine	Precision Arms SR45	1/60	68
R.P.B. M10 smg	Cobray M10	1/50	62
Reising Model 50 smg	Maxim Model 1910	1/150	62

stantial increase in velocity with a longer barrel.

"We also know that not all of the powder is being burned," White says, "because we can see many unburned granules imbedded in the surface of a chunk of wood when a rifle or pistol is fired into same at close range. Therefore, we might as-

sume that only the outer portions of those grains of powder are being burned, and that — at some point in the power stroke — expansion and conduction have cooled the gas/powder mixture to the extent that combustion ceases.

"There are several advantages," White continues, "to

increasing the chamber pressure in an integrally suppressed carbine. Energy is more quickly transferred to the bullet. And the powder is burned more completely, reducing the secondary burning of combustion gases in the suppressor. This could reduce the so-called first-round pop common in many suppressors, and it could also reduce subsequent sound signatures as well."

White has developed an interesting .58 caliber subsonic pistol round (inspired by the .45 ACP) to push a 550 grain lead bullet of unusual design. The front of the projectile is slightly dished with sharp edges. Back in the days of armored knights, crossbow bolts were designed with broadheads ending in a similar blunt design with sharp edges, rather than points. These specialized bolts would bite into a knight's armor rather than glance off when impact was other than 90 degrees. Much later, when whalers began to kill whales with explosive

projectiles, this blunt design with sharp edges reappeared for the same reason. Mark is awaiting approval from BATF to begin making these rounds and firearms for them. A .58 caliber suppressed carbine would certainly be interesting.

White says that "the ideal suppressed carbine (whether .45 ACP or something more exotic) could be a rebounding self-loader. But a fixed-breach, magazine-fed repeater would be better, whether it was a pump or bolt action. Make it a reliable bullpup less than 28 inches long and weighing under 4 pounds, and you will have a steady source of income over the next 20 years. Add your own suppressor, and that will increase your earnings substantially."

The line forms at the right.

Mark White
Sound Technology
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Kodiak, AK 99615
(907) 486-8448

Training Videos NOT Show & Tell

Personal Limitations in Tactical Handgun, Shotgun & Submachine Gun

This video was prepared from a two-day live training program at PPS's outdoor facility in the Pocono Mountains. The purpose of the program was for each participant to know his limitations with carry handgun, combat shotgun and submachine gun. The submachine gun was covered because in attendance were law enforcement participants who are issued SMG's in their line of duty & people involved in international travel where they can become victims of terrorism. This series will be most beneficial to instructors working with these three weapons and advanced students of small arms. Parts I through IX (3 tapes) Running time: Approximately 4 1/2 hours
\$134.95 VHS (for 3 tapes) \$149.95 Beta (for 3 tapes)

Introduction To Select Fire Submachine Guns

This program takes a novice through the history and development of submachine guns and both strong & weak points. It also covers both open bolt & closed bolt submachine guns, along with various shooting stances & firing techniques. Running time: Approximately 5 hours (3 tapes)
\$149.00 VHS (for 3 tapes) \$164.00 Beta (for 3 tapes)

The Breakdown, Reassembly & Function of the UZI SMG, S&W 76, & MAC 11-9mm SMG

This video covers the UZI submachine gun which is one of the most tried and tested open bolt submachine guns in the world today. It is a general purpose weapon which cycles at 650 rounds per minute. Also the S&W 76 submachine gun which cycles at 720 rounds per minute and is no longer manufactured by Smith & Wesson but it is available on the Class 3 market and it is an excellent general purpose weapon. Finally the last covered is the Mac 11-9 mm submachine gun which is a special purpose weapon & cycles at 1200 rounds per minute. It is manufactured by S.W.D. and with a muzzle extender or sound suppressor, it is quite controllable. Running Time: Approximately 40 minutes
\$29.00 VHS

The Role of the Submachine Gun in Police Work by Attorney T. J. Mullin

Attorney Mullin demonstrates 12 different weapons & explains their advantages for law enforcement. Running Time: Approx 35 minutes
\$29.00 VHS

Hackathorn/Lipman Handgun, Submachine Gun Certification Program Instructor Level Training

In October 1988, Ken Hackathorn of Practical Firearms Training, & Aron Lipman of Personal Protection Systems, co-instructed a program at PPS's facility in the Pocono Mountains of Northeastern Pennsylvania. This was a 30 hour intense program concentrating on carry handgun and submachine guns in both defensive and offensive posture. This series will only be available to do those who do high levels of instruction, it goes through Advanced Level I training through Advanced Level II training. To name just a few of the subjects covered...single entries, double entries, proper utilization of cover, paint gun scenarios utilizing entries and much, much more. Running Time: 10 hours (5 tapes)
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John Farnam of "Defensive Training" Instructing His Techniques with the Submachine Gun

John emphasizes on long burst techniques with the submachine gun on this video. Running Time: Approximately 90 minutes
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More Tricks Of The High-Volume Shooter

A MUZZLE BRAKE DISCUSSION AND COMPARISON TEST (or shoot-out)

by JOHN ROSS

In the November 89 issue of MGN I discussed methods to load magazines more quickly and in greater quantity with the goal of shooting more and fumbling around less. Now I'm going to address another topic that sees little ink but is very important to the serious, high volume machine gun enthusiast: Muzzle brakes.

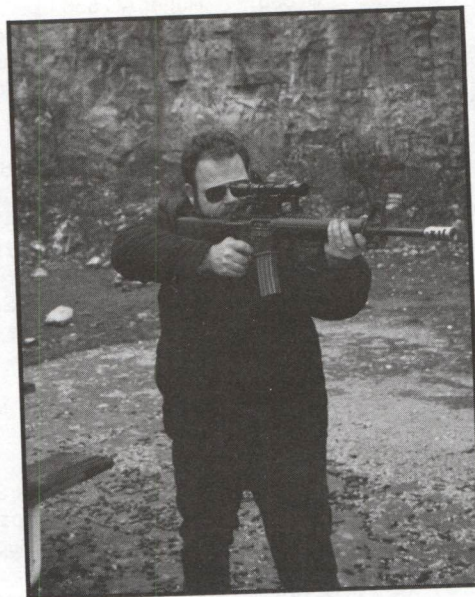
No full auto shooter prefers a hard-to-control gun to one that pours its bullets into a small area on full auto. A good muzzle brake can make an uncontrollable gun manageable and make a manageable gun do a fair impersonation of a laser. I have put muzzle brakes on almost every rifle caliber machine gun I own, and I own a lot. This includes some belt-fed guns like the FN Minimi, the FN MAG-58, the MG42 and the MG34. In every case except one there was a large increase in controllability and a reduction in recoil and climb.

Such performance does not always come cheap. I had to pay \$500 to have the MG42 brake made (it's a beauty!) but it was worth every penny. I am willing to pay a lot for better controllability on the guns I really like to shoot. If you are a serious full auto shooter, you may also feel this way. If so, read on.

The single disappointment I encountered was the 7.62x39. I could not see a noticeable improvement in my RPK after a brake was installed. Perhaps it has something to do with the internal mechanism of the gun. I say this because when I fire that weapon it feels as if the bolt is bottoming out the recoil spring, and that jarring event may be the cause of most of the felt recoil. The gun bounces around more than my RPD of similar weight. I wish the RPK had an adjustable gas regulator; this might fix the problem. I intend to put a brake on the RPD to see if that gun is a different case.

Muzzle Brake Theory and Design

A muzzle brake (sometimes called a compensator) is one or more holes, ports, slots, expansion chambers, and/or baffles designed to redirect the burning powder gases exiting the muzzle of a firearm, there-



by reducing the climb and/or recoil of the weapon. The brake may be screwed, soldered, brazed, or welded onto the muzzle, or it may be machined into the end of the barrel itself. This last is called an integral brake.

Some people who have never used them think that muzzle brakes are more wish than fact, like a rabbit's foot for good luck. They point out that the bullet weighs the same and is still flying out the end of the barrel at the same speed, so as per Newton's law of conservation of momentum, the recoil will be unchanged. This argument ignores a vital fact: the bullet is not the only thing flying out the muzzle.

In addition to the bullet, a substantial mass of gases from burning powder is also being propelled out the end of the barrel. The momentum of the rifle (the "kick") is the same as the momentum of the bullet PLUS the momentum of the powder gases. If we change the direction of the burning gases we can reduce or eliminate their contribution to the recoil of the gun. In some cases, we may even redirect the gases slightly to the rear, so that the momentum of the gun is actually less than that of the bullet. A recoilless rifle is the ultimate result of this principle.

Further, these gases are traveling at a much higher speed than the projectile itself. For example, in a high velocity rifle round like a .223 or .308, the exit velocity of the powder gases is over 5000 FPS. The greater the powder volume and the greater the exit speed of the gas (high muzzle pressure), the more the gun's recoil is due to the powder component and the more potential there is for recoil and climb reduction with a good muzzle brake.

For example, a .45 ACP burns about 5.5 grains of powder to propel a 230 grain slug. Peak pressure in the barrel is perhaps 12,000 PSI. I don't know what the pressure is when the bullet exits the barrel, but it's obviously less than peak pressure. A .308 burns 45 grains of powder (8 times as much) to propel a 150 grain bullet (only 2/3 as heavy) with a peak pressure of 50,000 PSI (4 times as much). A brake can help the .45, but not to nearly as great a degree as the .308. A plain-barrel Thompson is almost as controllable as one that has a Cutts Compensator, but a FAL without a good brake is all but useless on full auto. With one installed, it feels like a different gun.

Brakes come in all shapes and designs. Every producer will tell you that his design is the best. In theory, since gases behave in a quantifiable manner, it should be possible to calculate the effect of any brake with known dimensions on any gun of known specs firing a cartridge with known ballistics. The problem is that every different caliber, powder charge and type, barrel length, and gun configuration has a different event happening at the muzzle and a different reaction to recoil. Coming up with an appropriate equation may not be feasible, even if you are Bell Labs.

Because of this, most brakes are the result of trial-and-error design. Fortunately, the laws of physics provide us with several guidelines for a good muzzle brake, so this is not as much black magic as might seem.

First, as much of the gas as possible must be redirected. The more difficult to

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make (and therefore more expensive) multi-stage designs do a better job of this. Second, to reduce climb to zero, more gas must be redirected upward than downward. Too much directed up will cause the muzzle to sink on full auto. How much differential is needed will depend on the individual caliber and gun. On a gun with little gas volume, like a .45 ACP, you may want to redirect all the gas upward. This is what you'll usually see on competition pistols. Third, if the gases are allowed to push on large flat surfaces of the brake, more recoil reduction will usually occur than if the brake has smaller surfaces. Last, if you can direct gas rearward, you will get the lowest recoil, but probably the worst blast for the shooter.

Muzzle brakes need not be complicated. I made my .375 H&H Improved Magnum kick like a .300 Winchester by simply drilling ten rows of nine .100" holes along a 1.4" section of the muzzle, and carefully deburring them. You can also make a very effective (albeit ugly) brake by taking a piece of 1" square section steel tubing 2 1/2 or 3 inches long, and drilling a hole (.100" larger than bullet diameter) through it at the center, so that the hole passes through two opposite sides of the square tube. Enlarge the hole on one side to the proper size for threading it to match your barrel. Screw it onto your gun's muzzle. Use a washer which you have filed or ground down to the proper thickness so that your brake ends up in a horizontal position when you tighten it down. It will look like a propeller out there, but it will work very well. By the way, you should always use this washer method (or a jam nut) to orient any muzzle brake. Never use a set screw, even if the brake comes with one and that's what the instructions tell you to do. It will mess up your barrel threads, and it will vibrate out anyway if you shoot more than a magazine or two a year.

One warning on brakes is in order here. Any time powder gases travel in some direction other than straight to the front, there is greater potential for injury, particularly to the eyes. Try firing a revolver with your other hand wrapped around the cylinder and you'll see what I mean. (Don't actually do this.) For a really enlightening demonstration, poke the muzzle of your brake-equipped rifle into a large cardboard box and pull the trigger. You'll get a bunch of holes in the sides where the high velocity gases were redirected. Some brakes "spit" more than others, but all should be treated with respect. Full autos, with their high heat levels at the muzzle, are especially prone to send tiny hot copper fragments to the side. Don't fire too close to other people, and make sure everyone has good eye protection. One brake designer vents all gases up and down with none to the sides for this reason. Unfortunately, his brake is terrible when fired in the prone position.

Unless you are inclined to machine things yourself or pay a shop for custom work, you are going to have a limited selection as to what brakes are available for your gun. Three suppliers offer brakes for almost any firearm that has a threaded muzzle.

The first is Fabian Brothers, producer of the DTA MilBrake. These units are produced for almost all semi-autos in existence, and their full-auto counterparts. (AUG, M14, HK91, etc.) I don't think they make anything for the BAR, MAG, RPD, DP, or other machine guns that don't have a semiauto version. These brakes are simple and inexpensive, but my experience is that they do help, particularly in view of their price, which is about \$35 each.

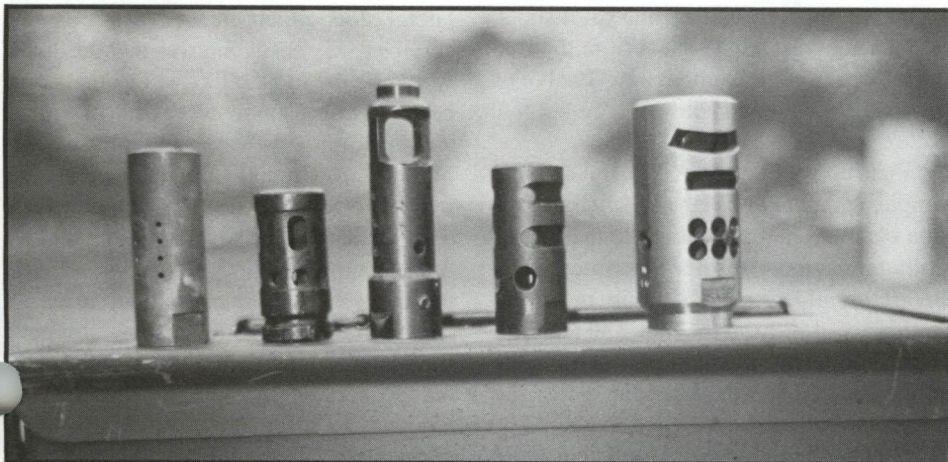
Second, Vito Cellini, reviewed in MGN in July 1989, will make a brake for almost anything. His brakes are more complicated (and more effective) than most, and necessarily cost quite a bit more. He built one for

my BAR a few years ago for about \$150, and put a combination compensator/muzzle bushing on my full auto Hi-Power for \$200. Prices may have changed since then. He is also a very pleasant man to do business with.

Lastly, Bruce McArthur, the only muzzleloader gunsmith I know with a Class 3 license, makes the PGRS brake. Bruce makes these for serious high-volume shooters like himself and I believe that they are the most durable brakes on the market. They are made out of 3 pieces of stainless steel, welded together, heat treated, and finish machined. They employ a bronze crush washer for solid mounting without gunsmithing, and are gorgeous. You see a lot of them on the left side of the firing line at Knob Creek. In addition to common guns like the M16 and FAL, Bruce makes them for the MAG, Minimi, FN-D, and BAR, both with or without the bipod bearing. He also makes a big one for single shot .50s. I have these brakes on over a dozen guns. The PGRS (no, I don't know what that stands for—send in your suggestions) is a two-stage design where the second stage actually directs the gases at a slight angle to the rear. These brakes really cut recoil on guns with a large volume of high pressure gas. On a .50 BMG single shot (250 grains of powder and 55,000 PSI) actual pendulum tests showed a 68% reduction in recoil energy. Such performance doesn't come cheap. Prices vary from \$135-\$200. I should mention here that at Knob Creek I saw a parkerized copy of this brake which used a set screw for positioning, and selling for less money. I don't know what the material was, and I suspect it would not last as long as the genuine article. Even if it did, I would buy from the original designer, just on principle.

Aside from these three sources, several other suppliers make brakes for one or two guns. The most popular gun for brake manufacturers is the M16. Since M16s are like belly buttons (everybody's got one), I decided to use this weapon for my muzzle brake shoot-out. In addition to the three types from the above manufacturers, I also included a brake (modeled on the Russian AK-74 design that can be seen on pages 38-39 of the January 20, 1992 Newsweek) that Quality Parts sells for \$30, a Jet Comp from the Combat Shop with a price of \$50, and the AWC Optima suppressor to see what effect that device would have.

There are other brake manufacturers, but most of them cater to the hunting market and produce brakes that (continues)



Muzzle brakes - left to right: DTA, Cellini, QP AK74, Jet Comp, McArthur PGRS.

MUZZLE BRAKE TEST

Weapon: Converted AR15A2, Leatherwood mount, Leupold scope set on 4X.

Ammunition: Canadian SS109, 62 grain bullet

Distance: 50 feet

Course of fire: Five 3-shot bursts at the same aiming point

Brake	Group size, all 15 shots	Group size, closest 12	Pattern of shots on full auto
None	32"	28"	Up and right 55 degrees
DTA Milbrake	18"	13 1/4"	Up and right 10 degrees (almost no climb)
Quality Parts AK74 type	19"	10 1/2"	Up and right 35 degrees
Cellini	9 1/2"	7 1/2"	Up and right 20 degrees
Jet Comp	11"	8 1/4"	Moves right, 0 climb
Mc Arthur PGRS	16" (two wild shots, see text)	5 1/2"	Centered around point of aim
AWC Optima Suppressor	18 1/2"	15 1/4"	Up and right 55 degrees

they install on your bolt action, not finished units ready to screw on a machine gun. These suppliers also are not interested in full auto controllability, mainly just recoil reduction.

THE TEST

For this test I used a converted AR-15A2 with a 1:7 twist and Canadian SS109 ammunition. This is a powerful load that gives 3200 FPS to its 62 grain bullet. I have fired over 30,000 of these rounds without incident, however, so pressure is not excessive. Those of you who shoot the lighter 55 grain loads like the popular Norinco offering will have greater controllability than I did. The gun was scoped with a 2-7 Leupold variable set on 4 power and the factory Colt flash hider installed.

Firing was done at 50 feet with five 3-round bursts fired at a single aiming point. The resulting 15-round group was then measured. Then the flash hider was replaced with the first muzzle brake, and the test repeated.

There was a specific reason for doing this. If you fire long bursts from a gun, it is possible to get in tune with the gun's recoil pattern and push the right amount to counteract it. The first few shots will be wild but the rest will be in a fairly small pattern. A practiced shooter can achieve this with any gun, even an AR-10. However, if a gun can shoot a 3-shot burst into a tight cluster, or better yet several 3-shot bursts into the same tight cluster, then that is a very controllable gun. To concentrate on aiming, I loaded 3 rounds in the magazines instead of using trigger control. I don't own a 3-round-burst gun.

Last of all, shooting bursts from the shoulder using the scope may not be the way to get the smallest patterns. I usually shoot from the hip, and often use a sling.

You can shoot tighter patterns this way, but not five 3-shot bursts with the same aiming point. The less stable technique of using the scope offhand really lets you see how well a brake is working.

RESULTS

The results of this test are shown in the accompanying chart. Some explanation is required. First of all, with no brake the gun threw 3-shot bursts in a 55 degree angle upward and to the right. I was surprised at the size of the "pattern" I got—it was bigger than the very large paper I was using! The first shot obviously was always close to point of aim (actually, at 50 feet a scoped M16 will shoot low since the sights are so far above the bore). The second shot invariably landed 14" to 15" farther away, and the third shot was off the paper. Sighting through the scope at the marks on the backstop where the third shots were landing, I was able to determine that they were an additional 14" to 15" past the second shots at 50 feet. Thus, an M16 firing 3-round bursts from the shoulder at 50 feet with no brake can be expected to place its shots in a diagonal pattern with about 25 to 30 inches between its first and third shots. In the actual test, all 15 shots from the five 3-shot bursts were in about 32". Twelve of them (80%) were in about 28".

DTA MILBRAKE

First up was the DTA MilBrake. This simple, compact device has a small expansion chamber and a number of small holes drilled in its top. Results were interesting. Invariably the second shot in the burst landed about 9" from the first, and the third was sometimes off the paper. Using the above method it was determined that the entire total of 15 shots landed in about 20" at 50 feet. The tightest 12 grouped in about 16". This is a 40% reduction in group

size—not bad for \$35 or so. Though the MilBrake-equipped gun pulled to the right, climb was almost zero. The group rose at about a 10 degree angle. The manufacturer recommends that the brake be positioned with the holes oriented slightly towards the shooter's right to correct this (for a right-handed shooter). When I tried this, I got less movement to the right but more climb. If I intended to keep this brake on my M16, I'd drill more holes in it on the right side.

QPAK74 TYPE

The Quality Parts AK74 type design was next. This brake put five 3-shot bursts in about 19" at 50 feet (a couple were off the paper) and the tightest 12 in 10 1/2". The group angled upward to the right at about a 35 degree angle. A 60% reduction in group size is impressive for this low-cost device. It comes with a set screw for mounting. Throw it away and use M16 peelable washers instead.

CELLINI STABILIZER

This brake was a surprise. The Cellini is definitely the smallest of all the brakes here. It is similar in size to an M16 flash hider. It is a dual chamber design, however, and that fact is reflected in its performance. This brake was the first to put all 15 shots on the paper. These grouped in 9 1/2", with 12 in 7 1/2". This is a 71% reduction in group size. The group rose slightly to the right at about a 20 degree angle.

JET COMP

The Combat Shop's Jet Comp is very interesting. It has two tapered holes facing upward near the rear of the brake which the manufacturer told me were designed by an engineer with rocket thrust nozzle credentials. He explained that in a port with the proper taper, gases hug the walls of a tapered hole, and are accelerated just like in a rocket nozzle, increasing thrust and (in this application) holding the muzzle down. In front of the expansion chamber that incorporates these nozzles are two milled lateral slots which create blast deflecting surfaces. My suspicion was that this brake would be the most effective one that could be made from a single piece of steel with no welding. In my test, the Jet Comp exhibited zero climb, lending credence to the maker's claim. The gun did pull right somewhat. It put all 15 shots from the five 3-shot bursts in 11", with 12 in an 8 1/4" group for a 68% reduction in group size. I truly believe that if the manufacturer put a third jet nozzle on the right side of the brake (or the left side for southpaw shooters) the tendency to string shots laterally would be eliminated. This brake offers an awful lot of performance for \$50. The manufacturer

McARTHUR PGRS

M16 with this brake exhibited zero climb and zero tendency to pull in any direction. The entire group of 15 shots was centered at the point of aim. Due to a dented mag which caused a "hiccup" that delayed the second and third shots in one of the 3-shot bursts, I managed to throw two shots of the fifteen out of the rest of the group. I would have shot the string over, but it was starting to rain. This made the total group measure 16", which is not representative. The other 13 were much tighter, however, and the 80% figure (12 shots) were in an impressive 5 1/2", a pattern 79% smaller than the control group. This group is one fifth the size of the results with the factory flash hider. Assuming proportionality, 80% of the shots from a number of 3-shot bursts at 50 yards would measure under 18" from an offhand position. There are many people who will tell you that is impossible. If you had a rest (like a tree to rest your forearm against) you could cut this quite a bit. If money and muzzle blast are secondary considerations, this is the winner.

AWC OPTIMA

As an interesting addition to this test, I screwed the AWC Optima suppressor onto the muzzle to see how this device would affect controllability. The results were en-

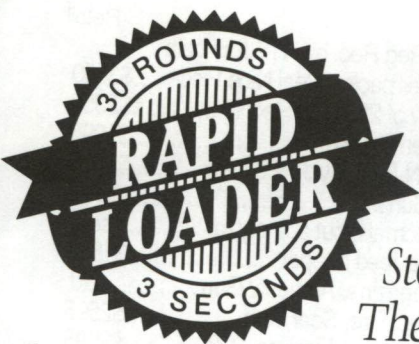
lightening. First, it was obvious that the gun cycled faster. Second, The five 3-shot bursts plunked their slugs into three distinct five shot clusters on the target. These groups were spaced upward and to the right at about a 55 degree angle much like the results with no brake, except they were spaced closer together. This could have been due to the reduction in recoil, the faster cyclic rate, or (as I suspect) a combination of both. Remember that this suppressor adds 1 1/2 pounds to the muzzle of the gun, and that will also affect recoil and the way the gun moves. All 15 shots were in 18 1/2" with the tightest 12 in 15 1/4".

CONCLUSIONS AND RECOMMENDATIONS

Muzzle brakes work. There were no losers in this test, only winners. The least effective M16 brake cut the gun's full-auto grouping 40% off the size obtained by the factory flash hider. The brake that did this, the DTA, cut climb almost to zero and did so with a streamlined package only slightly bigger than a flash hider. It also cost only \$35. Most importantly, this performance is available for virtually every select-fire rifle made. (continues)

(continues)

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Machine Gun News - July 1992

The QP brake cut group size even further for the same price. This type brake is also available for AK weapons. I have seen it at gun shows with the left-hand AK thread for \$20. Tests need to be run to see how it does in 7.62x39, but on an AK .223 it should give similar results to those shown here.

The Cellini is the most effective brake for its size I have ever seen. It cut group size on full auto over 70% with no additional bulk. Use this one if you ever want to bet someone you can outshoot them on full auto and don't want them noticing that funny thing on your gun's muzzle. I'd like to see what this maker could do with a larger design.

The Jet Comp is the most improvement you can get for your M16 for \$50. If I'm right, a third nozzle will make this unit a world beater. I hope these people expand their line to include other machine guns.

The McArthur PGRS cuts recoil more than any other, reduces climb to zero and lets the gun vibrate around the aiming point. If the size, price, and increase in

blast don't bother you, this is the way to go for ultimate full auto controllability.

If you have a brake design not listed here I urge you to try it and see how it stacks up. I believe that my testing method is a good one, although you may wish to use a closer distance if you can't use a large enough target. I strongly recommend shooting several control groups with only a flash hider to get a baseline. I also think you should throw out the worst 20% of the group and measure the remainder. This gives a truer picture of how your gun is shooting. Just as a bad bullet or puff of wind can make a bench rest rifle put nine shots in 1/2" but ten in 2", so can a magazine glitch or a few hangfires from old surplus ammo throw a few shots out of your machine gun's pattern.

I strongly encourage muzzle brake development. Anything that makes me able to hit better on full auto is a worthwhile addition to my gun. Try one of these units and you'll immediately see the results. Practice with it and you'll soon be doing things you didn't realize were possible. You may even outshoot me. MGN

SOURCES

DTA Milbrake

Fabian Bros.

1510 Morena Blvd. Ste G Dept MGN
San Diego, CA 92110
(619) 275-0816

AK74 Type

Quality Parts

PO Box 1479 Dept MGN

Windham, ME 04062

(800) 556-7928

(207) 892-2005

Cellini Stabilizer

Vito Cellini

3115 Old Ranch Rd Dept MGN

San Antonio, TX 78217

(512) 826-2584

Jet Comp

The Combat Shop

Rt. 1, Box 112-C Dept MGN

Surry, VA 23883

(804) 357-0881

McArthur PGRS

Flint & Frizzen

8735 Dixie Highway Dept MGN

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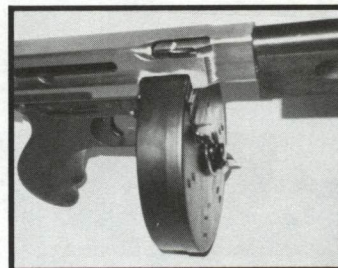
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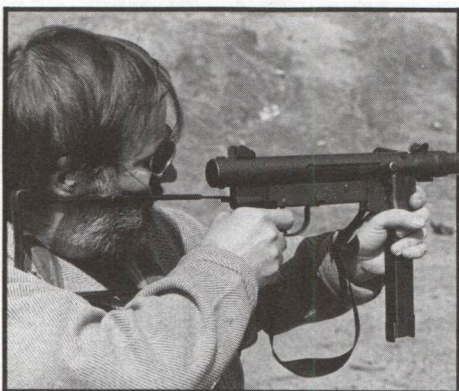
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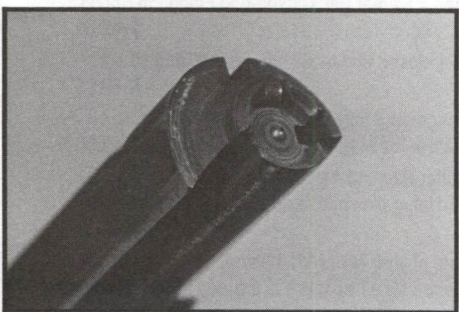




Smith and Wesson M76: My First Class III Firearm

Last year I was bitten by the desire to own a select-fire weapon, so I pulled funds from various investments and bought what was on the local legal market, a Smith and Wesson M76, not only to satisfy my ballistic curiosity, but as an exercise in speculative financial appreciation. So far, it's been vastly more fun to shoot and use as a conversation starter than to think about as a cold-hearted investment.

by R. A. WILLIAMS



This photo of the bolt head shows its intricate machining. Note: extractor and firing pin.



90, 115, 145 grain loads. Left to right: 90-grain loads caused "stove pipe" feeding jams. 115's fed without trouble.

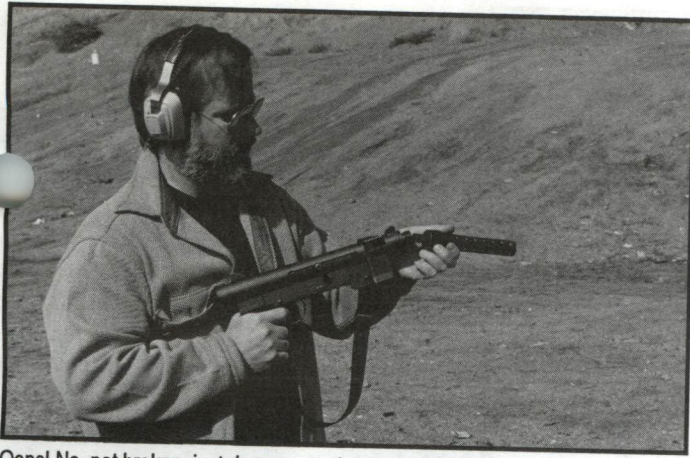


S&W M76 Select Fire 9mm subgun with stock in closed position.

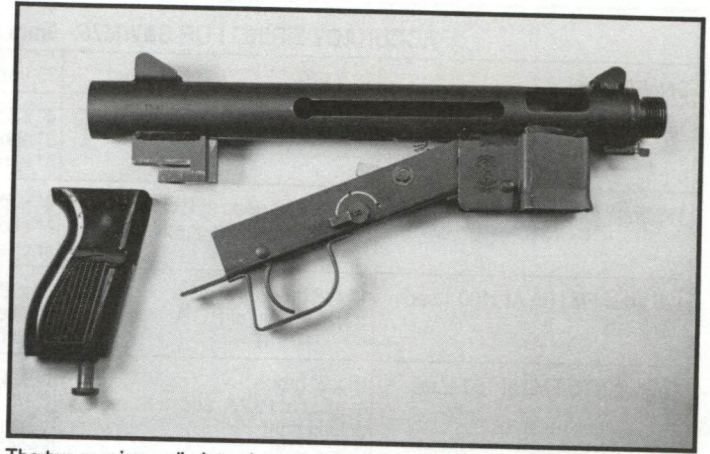


S&W M76 in its basic component form. Bolt has been left in upper receiver.

The S&W M76 is a small but heavy (8 1/2 pounds) 9mm subgun that works on the simple blow-back principle. It fires from an open bolt, having for its firing pin a machined protrusion on the bolt's face. Its' long, staggered-column box magazine will hold a maximum of thirty-six rounds. The eight inch barrel is detachable, and is held in place by a threaded, ventilated barrel sleeve. It fires either semi-auto or full-auto, and has a plastic coated flat wire stock that folds out from the left side to prevent any interference with the cocking handle located on the right side of the receiver. Too, the ejection port is on the right side. It has fixed sights with no possible form of adjustment for windage or elevation. Aside from the cartridges rising up from the magazine and the empty shells being ejected up and out to the right, major physical movement inside the gun takes place on a single horizontal plane, making for very smooth firing.



Oops! No, not broken, just demonstrating the quick change design on the barrel - not the best concept for accuracy, however.



The two receivers slip into place and are held together by the plastic handle and its long screw.

At first glance my gun appeared to be almost factory fresh, having a nice charcoal-gray finish and few outward signs of handling, but a quick inspection showed many thousands of rounds worth of powder fouling on the bolt's face and on the inside of the barrel-end of the upper receiver, no doubt due to the oversized barrel chamber allowing a lot of gas to seep back around the bolt face. Too, there was enough unburned powder in the lower receiver's mechanics to make fire selection questionable—and risky. I described this situation to a local Class III dealer. His advice was short and to the point. I was instructed to generously spray all the fouled surfaces with carburetor cleaner (this to be done outside, of course), flush with lots of hot or boiling water, repeat, and then give everything a saturation spraying of WD-40. I followed his directions to the letter, and the cleaner and hot water quickly cut through all the junk and crud inside the two receiver sections (upper and lower), allowing me to disassemble the gun for inspection and consideration.

As an ex-light machinist, the first thing that struck me about the M76 is how elegantly simple it is in the fabrication design and use of materials. It's essentially the end product of a combination of various tried and proven designs (Sten, Swedish K, MP40, etc.), but it's been Americanized for ease of construction. The upper receiver is a hollow metal tube, sealed on one end by a welded-on barrel attachment unit, and enclosed on the other by a pin-held end cap. Inside slides the bolt, pushed to the rear by cartridge ignition, and returned forward by a long, powerful spring. Welded on the bottom of the receiver is the magazine well with its catch/latch mechanism. The lower receiver pivots up underneath the upper and secures inside the magazine well. It contains the trigger, pivoting sear, and an

ambidextrous selector lever. All in all, the weapon is designed for quick manufacture with a minimum of skilled machining. The only critical areas that I could spot that would give a good machinist employment security are the bolt's face, with its neatly cut and beveled edges. Everything else, from the shoulder stock to the little spring-loaded latch that holds the barrel and sleeve in place, look as if they could be produced in a well-equipped metal shop.

But this is not to say the M76 is sloppily assembled. Far from it! All the metal parts are neatly stamped or simply but finely machined, their edges filed flat or gently radiused, so there isn't a single protruding sharp edge anywhere, save for a little on the upper right and left sides of the stock's locking mechanism just above the black plastic hand grip. The beads on the receiver and magazine well are small and neat, with just the right amount of filler metal being used. I'll say it—I was impressed.

DISASSEMBLY

For disassembly, the procedure is first to make sure the gun is empty of all live rounds, drop the magazine, and carefully cycle the bolt by hand. The barrel is removed by depressing the little spring-loaded locking latch, and giving the sleeve a firm twist to the left. Pull it off and slide out the barrel. Next, make sure the bolt is all the way forward, and move the selector into semi or full; if it's in safe, it'll lock the bolt into position. Then press down on the rear end cap while gently pulling on the cap's pin. The cap will come out, under strong pressure from the long bolt spring and its end unit. Put the cap, pin, and the spring assembly to one side. Pull the bolt all the way back with the cocking lever, then withdraw the lever from the receiver's right side when it reaches its insertion-removal opening. Now the bolt will simply slide out through the open rear of the receiver. When

you're this far along two things become apparent.

First, this is a simple design, with a blessed lack of small parts. One could say it's a minimalist concept of a firearm.

Second, the gun is fabricated from thick, robust metal, no doubt high-grade hardened steel, with no aluminum or alloy used. The only plastic used is in the shoulder stock coating and in the hand grip.

The bolt itself weighs over a pound and is for the most part solid. If you need to get into the lower receiver, you first remove a long screw that extends from the bottom of the hand grip/shoulder stock hinge plate and goes up into a block of metal welded onto the bottom to the upper receiver. The screw has a large head with a wide slot, so use a thick-bladed screwdriver so it won't get marred or gouged. Once the screw is out, the grip and shoulder stock unit will slip easily away, and the lower receiver can be gently pivoted down and off the upper. The lower receiver consists of a press-stamped U-channel that contains the trigger, selector lever, and sear, plus a pivoting connector bar for the sear (it's attached at the other end to the trigger), and a riveted-on leaf spring that provides trigger return pressure and an upward force on the sear. The lower receiver can be somewhat stripped by carefully removing a single small metal C-clip that fits over one end of a large rivet/machined pin that passes from side to side through the receiver and holds the sear in place at the same time it acts as the sear's pivot point.

Be very careful in removing the clip! I got careless with my C-clip, and it shot out my open garage door and into the street, never to be seen again. Fortunately, suitably sized C-clips are a standard hardware store item, and about half a dozen of them can be had for under a dollar. I advise any M76 owner to stock up a dozen, just to be

ACCURACY FIRING FOR S&WM76 - 9mm		
Semi-Auto	15 yards	25 yards
10 grain TCHP at 1300 1/sec	3' X 3" group at P.O.A.	4" x 3" group 3" above P.O.A. 4" to right of P.O.A.
115 grain FMJ RN at 1150 1/sec	1 1/2 x 3/4" group at P.O.A. (very tidy 5-shot ragged hole)	4" x 2" group 1" above smallest 25 yard group
125 grain FMJ Rn At 1100 1/sec	1" x 2" group 1 1/2" to right of P.O.A.	3" x 2" group 4" above P.O.A. 4" to right.
47 grain NTC FMJ at 150 1/sec	2" x 3" group starting at P.O.A. and drifting right	6" x 4" group 2 1/2 above P.O.A. 5" to right Least accurate load
Comments: All loads were handloads with mixed cases. 147 grain loads were loaded with Win. 571 powder, all others were with Win. 231. Failure -to-feed (stovepipe) problems occurred three out of 10 rounds with 90 grainers, due to their shortness.		

safe. The leaf spring, trigger, trigger-to-sear bar, and selector lever are all riveted or hammered into place, and can't be removed. So far, I've only had to remove the sear to clean out unburned powder and ignition residue, and to give it an occasional lubricating at the pivot surface points.

As for the upper receiver, everything is welded-on quite solidly, and the only thing that could possibly be replaced is the magazine well's latch spring. It's held in place by a hollow-head rivet that could be drilled out if the need should ever arise.

All in all, from a pile of disassembled components, it took me just under two minutes to reassemble them into a properly functioning gun, and I'd say that thirty seconds of that was spent in fumbling around for dropped pieces.

If the M76 has a major as-issued drawback, it is in the sights, which are nothing more than stamped-out and welded-on pieces of shaped sheet metal. They are "factory set," and are not meant to be adjusted. Robust and sturdy as the gun itself, they give a good indication of where the barrel is pointed, and that's about it.

HOW DOES IT SHOOT?

I can answer that in two ways; very well, and it could shoot better. First, the mechanical functioning with modern ammo in semi and full position has always been fine, with only a few instances of "double tapping" in semi coming from surplus military ammo, mainly the Egyptian stuff that's now on the market. With American-made ammo, or with my own handloads, I've not had any problems. Apparently there is a certain rearward recoil force that is required for full functioning, and some surplus rounds of questionable power loading don't have the "oomph!" to

make the bolt completely cycle all the time. Second, the could shoot better part has to do with the sights and the barrel-to-receiver lock-up. On my gun the sights appear to be regulated to about fifteen to twenty yard using 115-grain FMJ rounds running 1150 to 1200 fps. They'll produce a two-inch cluster when fired on semi, just above the Point of Aim (POA), and an inch or so to the right. At twenty-five yards, the same load shoots several inches higher, and up to four inches to the right. The farther I get away from the target, the higher and more to the right my M76 will shoot. Adjustable sights might cure the problem, but I suspect it has a lot to do with the barrel's over-sized chamber and the lack of a constant, solid lock-up to the receiver. Each time I pull the barrel to clean it, it goes back on in a slightly different position relative to the receiver, and the difference in locking pressure on the barrel's sleeve will cause the impact point to shift a little bit. If I remove and re-attach the barrel four times while shooting a single clip, the point of impact will change four times. However, with a bit of practice I've learned to guesstimate where to aim past ranges of twenty yards or so, and have gotten to be pretty good at bouncing water jugs and plastic soda bottles out to about forty or fifty yards. Beyond that hits are more theoretical than actual. But once I know a bullet's approximate drift—and I refrain from removing the barrel—I can to a limited degree compensate for it. Our local range has a "gong" at 230 yards, a foot-square piece of armor plate propped up against a rock. Out of ten 115-grain rounds fired at it, I dropped eight rounds within a foot or less of it, had one scrape the plate's left edge, and the last made a solid, knock-down impact. I aimed at a point four

feet below the gong's level—and a good thirty feet to it's left.

ACCURACY AND HANDLOADS

Earlier this year I conducted a number of fifteen and twenty-five yards tests for accuracy with loads of varying bullet weight, shape, and velocity. I've hand-loaded 90-grain TCHPs, 115 and 125-grain FMJRN's, and 147-grain TCFPs, with the velocities running from 1300 fps for the 90-grainers, down to 950 fps for the 147-grain loads. The results have been educational (see the chart). At fifteen yards, semi-auto from a bench-style rest, all the loads shot impacted right at or slightly above POA. The tightest group came from the 115-grain loads running at 1150 fps, with 5 shots going into a little group less than 1 1/2 inches across. The 90-grain TCHPs produced the largest group, measuring about three inches across. Due to excessive space in the magazine from their shortness, the 90-grain loads stove-piped three out of ten times on chambering—not a happy thing to have happening in an open-bolt gun. At twenty-five yards all groups opened up considerably, and shifted to the right by a few inches. Again, the 115-grainers gave the best results, with a group one inch wide by four inches high, not counting a flyer that landed low and far to the left (it was trigger pull mistake on my part). The largest group was produced by the 147-grain TCFPs, with five shots landing in a triangle-shaped pattern the size of a large tea saucer, and a good half foot to the right. If I had to depend on just one loading, it would be the 115-grain FMJRN's loaded to about 1200 fps.

COMMENTS

Taking the M76 out for a shooting session is always interesting. I carry mine disassembled in a small blue gym bag, and it's always enjoyable to watch the expression on other people's faces when I pull it out, screw on the barrel and sleeve, then drop in the magazine. They'll stop whatever they're doing and simply stare—and a lot of them are curious, coming over to see what exactly it is I'm shooting. So far, no one has made any unkind, paranoid, or negative comments. They'll ask where it comes from, what its history is. I tell them the truth—I don't know. All I know for certain is that Smith and Wesson made it. I hear lots of rumors and speculations from folks up at the range or at the local gravel pit, things like it's a merc gun used "black ops," that it was developed just for SEALS work in Asia, it's so mean and lethal that even the cops won't touch it, the

guns on the market are now from some super-secret FBI/CIA program that fell apart when the Berlin Wall came down and were sold back to S&W to disguise their true purpose...I've even been told that a individual, a person well-known in government weapons circles, is helping the Navy build a version in stainless steel for SEALS work, sort of a M76-SS. All the speculation seems to be on a par with the infamous 100 MPG water carburetor that Detroit keeps secret for sinister reasons. Altogether, the comments and remarks are quite entertaining. However, one person did seem to sum it all up. I came across him while testing handloads up in the gravel pit. "Say, that's a nice M76 you've got. " he remarked. "I carried one in 'Nam. Great to have if you gotta go room-to-room. Past twenty yards though, you'd best run for solid cover."

OWNERSHIP

And that's the rub. For the last two years I've been shooting DCM matches with an M1 Garand and an AR15, and I'm used to aiming at a thirteen-inch bull at two hundred yards and hitting it almost every time I pull the trigger. I can't do anything like that with the M76, unless I equip it with a scope or some form of compensating device and somehow secure the barrel just short of welding it onto the receiver. As issued, it just isn't a competition gun, and certainly could never be considered one when you have to guesstimate bullet impact at ranges past thirty yards. Too, the lack of available parts is troublesome. In this respect I would have been better off going for an M16 or M14. But I will say this—the little thing is growing on me now that I've come to understand it's a limited-range firearm that has some distinct characteristics. I've enjoyed shooting it so much that I started doing my own handloads in bulk, stocking up on brass and bullets whenever I can scrounge them. Too, I still look for parts and extras, and a local gunsmith informs me he can make barrels from commercial blanks, giving me a choice in length and twist rate. I find myself looking over Thompson and Sten extras at gun shows and wondering how they could be modified or adapted to fit my gun. I've even found myself considering making a scope mount for the receiver. I think that's how it goes with Class III guns, their peculiarities make them all the more distinctive and attractive. I wonder what my second one will be ? MGN

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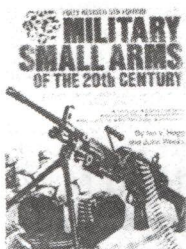
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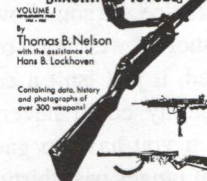
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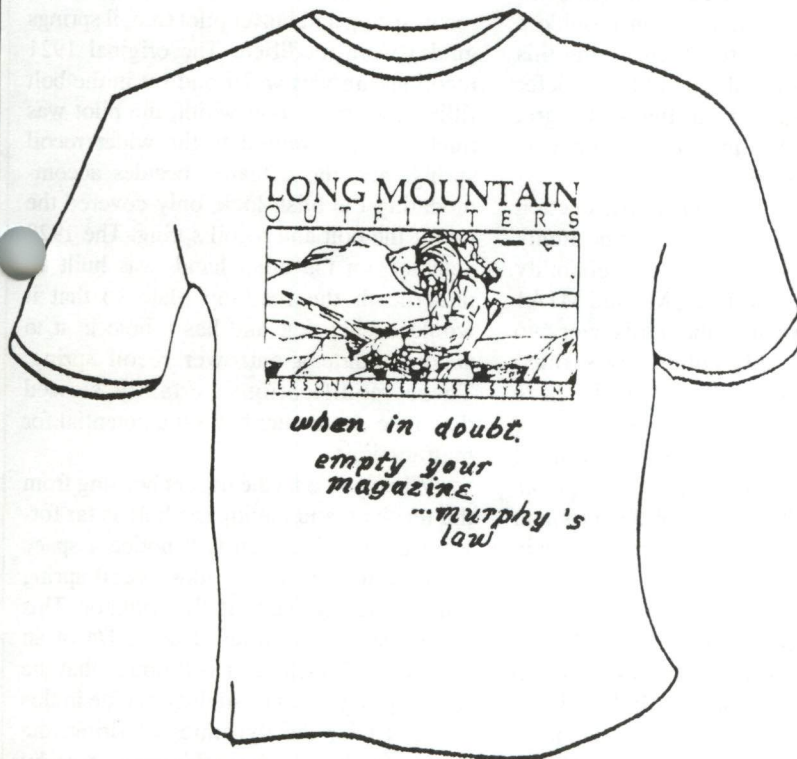
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Tinkering With Thompsons



by Jim Klodzinski of Gunmachines

The Basic Reliability Problem Model 1928, M1 and M1A1

At the end of my last article I indicated that this article would deal with a further malfunction traceable to the rocker which was brought to my attention by one of my readers. However, in the process of writing about the malfunction, I realized that I did not have the problem fully analyzed; and, rather than provide a possible inaccurate article concerning this rocker malfunction, I thought I better defer the article about it for the future. I regret having to disappoint any of my readers who were looking forward to it.

So, instead of the rocker malfunction article, I would like to take this opportunity to review what I view as a basic reliability problem affecting the 1928, M1 and M1A1 TSMGs. I have written about this over two years ago when this column was titled "Making Thompsons Work!", and I have extensively covered this problem in my Gunmachines Trouble Shooting Manual for the TSMG. However, most of my phone calls still deal with aspects of this problem and perhaps this is a good time to re-explain it.

The classic symptom of the basic reliability problem for the 1928, M1 and M1A1 is this: In the full auto mode, as well as the semi-auto mode, the bolt strips a cartridge from the magazine and chambers it, the cartridge does not fire and the TSMG stops with the bolt forward. Upon ejecting the cartridge manually from the TSMG, a look at the primer shows a light primer hit.

At first, the shooter thinks he has a firing pin problem or that there is some kind of problem with the ammunition used. These are not the reasons for the malfunction; but, as long as the shooter thinks the firing pin or the ammunition is the problem, any corrective measures that he takes along these lines results in frustration and disenchantment with his TSMG.

Some years ago, even before Gun-

machines was a business, I traced the main cause of the problem to what I believe to be a design fault which happened when the Model 1921 TSMG was changed to the Model 1928 to slow down the cycle rate of fire to accommodate the Navy for a contract in the late 1920's. The 1921 actuator, recoil spring and buffer pilot (recoil springs guide) were modified. The original 1921 recoil spring was wider and sat in the bolt filling the inside bolt width, the pilot was thicker to accommodate the wider recoil spring, and the actuator, besides accommodating the blish lock, only covered the top of the bolt and recoil spring. The 1928 actuator, on the other hand, was built underneath the rear top plate so that it would be heavier, and has a hole in it to accommodate a narrower recoil spring. These modifications certainly slowed down the cycle rate; but left a potential for malfunctions.

When you take the trigger housing from the receiver, and having the bolt as far forward as possible, you will notice a space between the tip of the pilot (recoil spring guide) and the back of the actuator. This space may be anywhere from a 1/4 of an inch to a 1/2 inch. You will notice that the recoil spring tends to slightly buckle in this space. Under the dynamics of firing, the recoil spring may jam in this space, thereby preventing the bolt from fully going rearward. If the bolt does not go fully rearward then the bolt will not have enough force to ignite the cartridge from the magazine and chambering it. This situation did not occur in the 1921 because of the wider recoil spring and buffer pilot. Hence, I concluded that the design of the 1921 was more reliable.

To remedy the problem I developed telescoping buffer pilot for the 1928. The pilot rod contains a thinner rod, activated by spring pressure, which bridges the gap



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between the tip of the pilot and the back of the actuator thereby preventing the recoil spring from bulging and kinking. When the bolt comes rearward the thinner protruding rod retracts into the body of the pilot allowing the bolt to come back all the way rearward.

This same problem also can happen with an M1 and M1A1. When the bolt in these models is fully forward, a space also exists between the tip of the pilot and the rear of the bolt. Although this space is usually not as much as in the 1928, it is space enough for the recoil spring to get caught between the back of the bolt and the tip of the pilot during the dynamics of firing and thereby retarding bolt travel resulting in the unignited chambered cartridge symptom described above.

This problem can be further impacted in the Model 1928 by the lugs of the blish lock binding in the grooves machined for them on the inside sides of the receiver, if your 1928 receiver is not precisely machined in these areas. Also this malfunction may not consistently appear. It just depends if, on a particular cycle of the bolt, the recoil spring gets caught. In some 1928's a pattern develops and in others it happens haphazardly. Also if the pilot in the 1928, M1 and M1A1 is able to be significantly moved from side to side, the chances of experiencing this problem are greater. With the trigger housing off, examine the receiver with the bolt, pilot and recoil spring in place. If you are able to move the tip of the pilot significantly side to side with the tip of your finger, then you will be experiencing this malfunction. Also examine the tip of the pilot and you may discover groove marks on the flat part of the tip. This means that the recoil spring has already been jammed between the back of the actuator (for the 1928) or the back of the bolt (for the M1 and M1A1) and the tip of the pilot. I have seen pilots that were actually bent from the force of this impact.

So, all things considered, that is why I recommend a telescoping pilot for the 1928, M1 and M1A1 as insurance against this problem. Also, remember, that for the Model 1928, a lugless blish lock may be further necessary to correct the problem, but start with a telescoping pilot first. The telescoping pilot alone, generally, tends to cure the problem in about 75% of the cases brought to my attention.

Next month: The field expedient blish lock.

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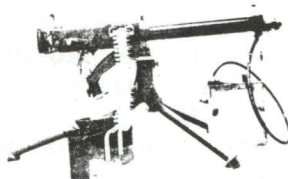
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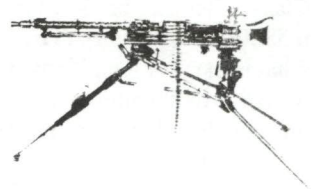
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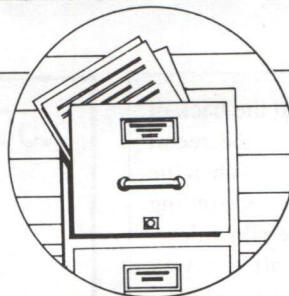
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The Forms

by DAN SHEA



This is the month that we all renew our Special Occupational Tax, or pay it for the first time. If you are a new aspiring Class 3, remember that you must have an Employer Identification Number (EIN) from the IRS to do business. Jeff Zimba from the Outpost in Waterville, Maine was just advised that IRS has a new policy that if you call your regional IRS office, they will call you back within one hour with your new EIN, as long as you send an application in at the same time. This is over the phone service- and may help any of you fence sitters cross over to the Class 3 dealer side.

Q Thanks for a job well done on the "Machine Gun Dealers Bible". I have a few questions that I was unable to find in your "Bible". At the end of my first year as a Class 3 dealer, will all BATF send me a renewal notice in June w/an application, or do I have to contact them? This year when New Hampshire hosts another machine gun shoot, can I bring my personal NFA weapons from Connecticut with a copy of my Class 3 license, or do I need to file a Form 5320.20 with the BATF?

What is the problem, if any, with shooting incendiary .308 ammo out of my HKG-3 as long as I clean it right after shooting?

Bunker Bob

A Thanks for plugging the "Bible" for me, it keeps me out of trouble with Vida. You should have already received a renewal form from BATF. Right now there are a number of perplexed Class 2 manufacturers out there who thought they were paying reduced tax, and just got billed for \$1000. Don't worry, if your gross sales were less than \$500,000 last year, just change the notation to "reduced", and pay the \$500. The North Country Shoot will be held the last weekend of June, and Class 3 SOT's need only a copy of their license and tax stamp to travel with their guns, individuals must have an approved Form 5320.20 to transport interstate. Regarding shooting incendiary out of a G-3, if you promise to hose it out immediately with GI bore cleaner or ivory soap and hot water, I might say it's OK. Usually I forget, and have "growth" in that expensive gun. I usually keep the incendiary in cheap guns, or guns that have easily interchangeable parts like a 1919A4. All of this is in the M.G.D.B.

Q I am currently looking at purchasing one of the M203 launchers in either 37mm or 40mm. It will be mounted on the M16 I already have. I've studied the federal regulations concerning these devices and haven't gotten a clear picture of what is required. My first thought was to buy one of the M203 receivers from Jonathan Arthur Ciener (I just happen to like his work, there are others out there) Mr. Ciener says that the receiver without barrel is not a Destructive Device, does that make it a Form 1 device? As I would be assembling the receiver up into a functional M203 and mounting it on an M16 which already has papers, what, if any, forms do I need to file to complete the M203. Finally if all this is too complex, what about the issue of 12 gauge inserts? Using the 12 gauge insert would seem to constitute a short barreled shotgun and require AOW paper work. So if I opt for the 37mm gas gun, and have one or more 12 gauge inserts, would the AOW paper be required. I understand that the 37mm gas/flare guns are not destructive devices as defined by BATF and a 40mm M203 with registration as Destructive Device would/should supersede the AOW requirement with a 12 gauge insert.

Ellis H.

A The M-203 40mm is a Destructive Device, with barrel or without, if it has been registered as a DD. If the barrel is not in the possession of the person who has the receiver, and the receiver has not been a DD on the registry, the receiver is a Title I firearm, no caliber, receiver only, and is written in and out of the dealer's book like a pistol or rifle. An individual may file a form one to manufacture a DD out of the receiver, we've gone over Form 1's in Vol. 4 No. 11, and I will warn you "Do Not Have Possession Of The 40mm Barrel And The Receiver Until The Form 1 Is Returned To You Approved! The possession of both is possession of an unregistered DD, and that is a felony. This is no joke, guys, BATF will prosecute (or persecute) the hell out of you if you get caught.

Possession of a 40mm to 12 ga insert with a registered M-203 is OK, with a 37mm to 12 ga insert and a 37mm gas launcher, you are in possession of an unregistered DD! The amazing thing is that a 37mm gas gun is not a firearm. One would

expect that it would be an AOW with the 12 ga insert, but Technology branch is apparently reaching into the over .5" diameter and no "sporting purpose" BS for this one. Personally, I think you've got to be pretty sporting to shoot a 12 gauge from some of the shoddy 37mm 203 clones out there. Kind of like Russian Roulette. The people I know who have registered these as AOW's have been told to re-register them as DD's-to their horror.

Q I just received my May MGN. As usual I turned first to The Forms. I was surprised to see a letter referring to a question of mine you published in the March issue about my C&R license in the State of Michigan, and the legality of possessing full auto weapons here. If you read the very last paragraph page 58 of the *19th Edition Of Laws And Published Ordinances* very carefully you'll see that a person licensed by the Secretary of the Treasury or the Secretary Delegate does not fall into the category of a private citizen who is not allowed to possess automatic weapons. The C&R license covers only C&R machine guns. This was confusing to me so I called BATF Detroit. They were real helpful and the inspector sent me a copy of the *Michigan Dept. of State Police Concealed Weapons and Firearms Laws* the Jan. 1992 edition. In the back on page 45 question 28 it spells out in plain English you can possess full auto C&R machine guns in Michigan. I hope you'll print this for the benefit of other Michigan resident who would enjoy shooting full autos in the semi free state.

P.S. Since I got my first gun, the 08-15, I bought a 20mm Lahti De-Watt also from Kent Lomont. I did a Form 1 installed a new barrel and I made it live. Now I'm looking for a C&R sub gun.

Really Hooked

A This is one addiction to which you can't say "the first one's free". Sorry. I have also gotten letters from Michigan people who have had M-16's and other modern weapons approved. I wouldn't be afraid to try the process there, as confusing as it may appear. Good luck.

Q I am an arms collector who wishes to own NFA type weapons. I am a holder of a C&R license however, obtaining the proper law enforcement "sign off" in Dade County has been impossible. I have been advised

has been impossible. I have been advised informally that our State Attorney has threatened to discipline anyone empowered to sign if they exercise that right. Unofficially it is "political suicide" to sign off on this type of weapon in Dade County. I do have inside contacts who I can turn to. My question is: What are my options?

My second question is, is there a legal way to have my existing assault rifles converted to full auto? Would this involve purchasing an auto sear? Can I do this without possessing a Class 3 or other license? And would this entail obtaining Big Brothers permission here locally?

Doug in Miami

A I'm aware of the Dade county problems. There is a large quantity of Class 3 dealers in the area, which seems to be related to the inability of the law abiding citizens to get a law enforcement signature on their Form 4. It is illegal to be a Class 3 dealer to enhance a personal collection, just as it is illegal to get an FFL for the same reason. Frustrated collectors and shooters have gotten their Class 3 because they don't need a signature, not to avoid the \$200 transfer tax, from what I have heard. As long as they are doing some transfers to other dealers or individuals, they are legitimate. I am certainly not going to tell you to break the law. Perhaps you can send in a Form 4 with \$200 tax, and no law enforcement signature, and see what NFA Branch says. The National Firearms Act is a tax related congressional action, authorized by Congress authority to raise revenue. The NFA registry is a form of tracking the firearms for taxing purposes, or so Congress has been told. The Supreme Court has told Congress numerous times that they have no authority to ban firearms. So, where does this signature idea come from? What does it have to do with raising revenue? Seems to me like it impedes the raising of revenue, and blocks 2nd Amendment rights of the free citizens. Maybe if a bunch of you guys sent in Form 4's with the tax, and no law enforcement signature, we could get rid of this BS. Drive on. Regards your second question: there are registered conversion items available for the following items.

AR-15, HK-94, HK-93, HK-91, SAR-3, SAR-8 HK-911, SP-89, ORION, FNC, UZI, M-2 CARBINE.

Other than these, you are basically out of luck.

Questions to: Dan Shea
c/o MGN,
P.O. Box 759,
Hot Springs, AR 71913

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Firearms Conviction Appealed

The attorney for Class II manufacturer William Fleming has announced intention to contest a recent conviction on Federal charges relating to the transfer of six NFA weapons.

Fleming, owner of Fleming Firearms of Tulsa, Oklahoma, was convicted on three felony counts stemming from the sale and subsequent transfer of machine guns and a silencer belonging to a Texas collector.

After the jury was unable to reach a verdict on three additional charges alleging conspiracy and tax evasion in the purchase of 18 M-203 grenade launchers, U.S. district Judge James Ellison declared a mistrial on those counts.

Fleming is internationally respected for his innovative designs and modifications of automatic weapons. Chief among his creations are the compact HK51 assault rifle in .308 caliber, which has been purchased by several Federal agencies, and the more recent development of a .45 caliber version of the HK MP5 submachine gun, in which the U.S. Navy has expressed an interest. He has also served as technical advisor for numerous movies and television programs.

Although BATF sought to immediately seize Fleming's firearms inventory, Judge Ellison allowed him to remain free on bond and continue operating his business pend-

ing sentencing. Under the law, Fleming can remain in business until the entire appeals process is completed, a procedure that could take several years.

The charges upon which Fleming was convicted alleged that he conspired with others to evade payment of transfer taxes on firearms belonging to a Corpus Christi, Texas, man by transferring the weapons to the Seminole, Oklahoma, police department, then subsequently to a dealer in New Hampshire and an individual in Virginia. Prosecutors also charged that the forms transferring the firearms to the police department were falsified, since they did not name as transferees those who eventually obtained the firearms.

Fleming and his attorney, Keith Ward, contended that, since transfers both to and from a police department are legal and are tax-exempt, and since Fleming was only serving as a broker in the transaction, no laws were broken.

Two police officers who pleaded guilty to conspiracy and other unrelated charges testified as government witnesses and were awaiting sentencing.

Citing several possible errors in the judicial proceedings that could be grounds for reversal, Ward expressed confidence that the conviction would be overturned.

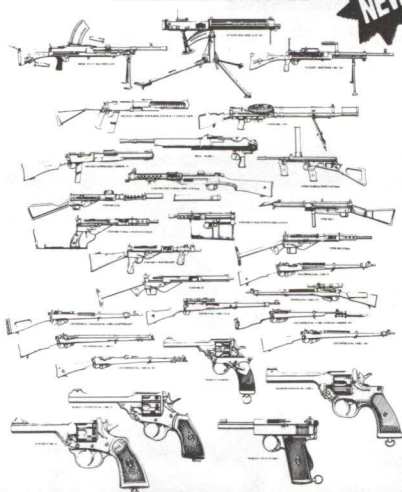
He also said he felt that, because of the highly technical nature of the case, the jury may have had difficulty fully understanding the charges against his client.

Fleming, meanwhile, says he intends to insure that Fleming Firearms continues doing business, adding that he has always enjoyed a good relationship with BATF in Washington, and feels that the charges against him resulted from a vendetta by local agents.

In a statement from Fleming's office, Mr. Fleming observed that this is the same BATF case agent, Blair Ward, that led the infamous assault by 60 agents on John Lawmaster's unoccupied house in Tulsa. The Gestapo like tactics used in the raid have been exposed in both the American Rifleman and Soldier of Fortune recently, and seem to be the norm in the Tulsa area. Mr. Fleming was accused of having avoided between \$1200 to \$1600 in transfer taxes. When the government was asked to present a copy of the invoice to tell Fleming that he owed the tax, they could not produce it—no notice had been sent. Courtroom theatrics by the Prosecuting Attorney included sweeping the jury with an M-16 and M-203 grenade launcher, then pleading with the jury to help get these dangerous weapons off the streets by convicting Fleming. (Note that they were registered NFA firearms, no danger at all.) A hush fell over the crowd as the prosecution's star witness, a convicted Felon, described how the BATF agent stated he didn't care what he had to do, he wanted Fleming in jail, and his family on a street corner begging for food. The trial judge stopped proceedings at many points to tell the prosecutor he was using perjured testimony, and to stop immediately. Where the fact that this was a tax case went to, no one is able to ascertain. Fleming has indicated he will fight to the end, and he is in business and BATF cannot interfere with that until after an appeal process that may take several years. MGN

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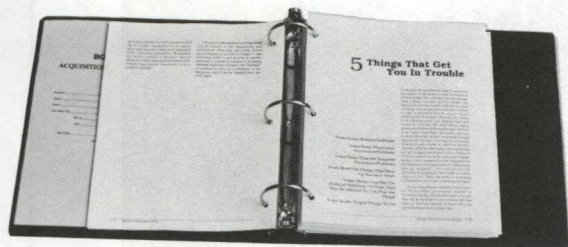
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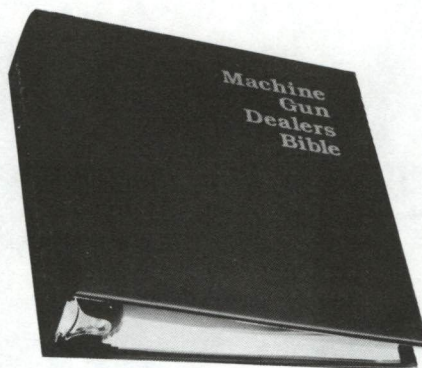
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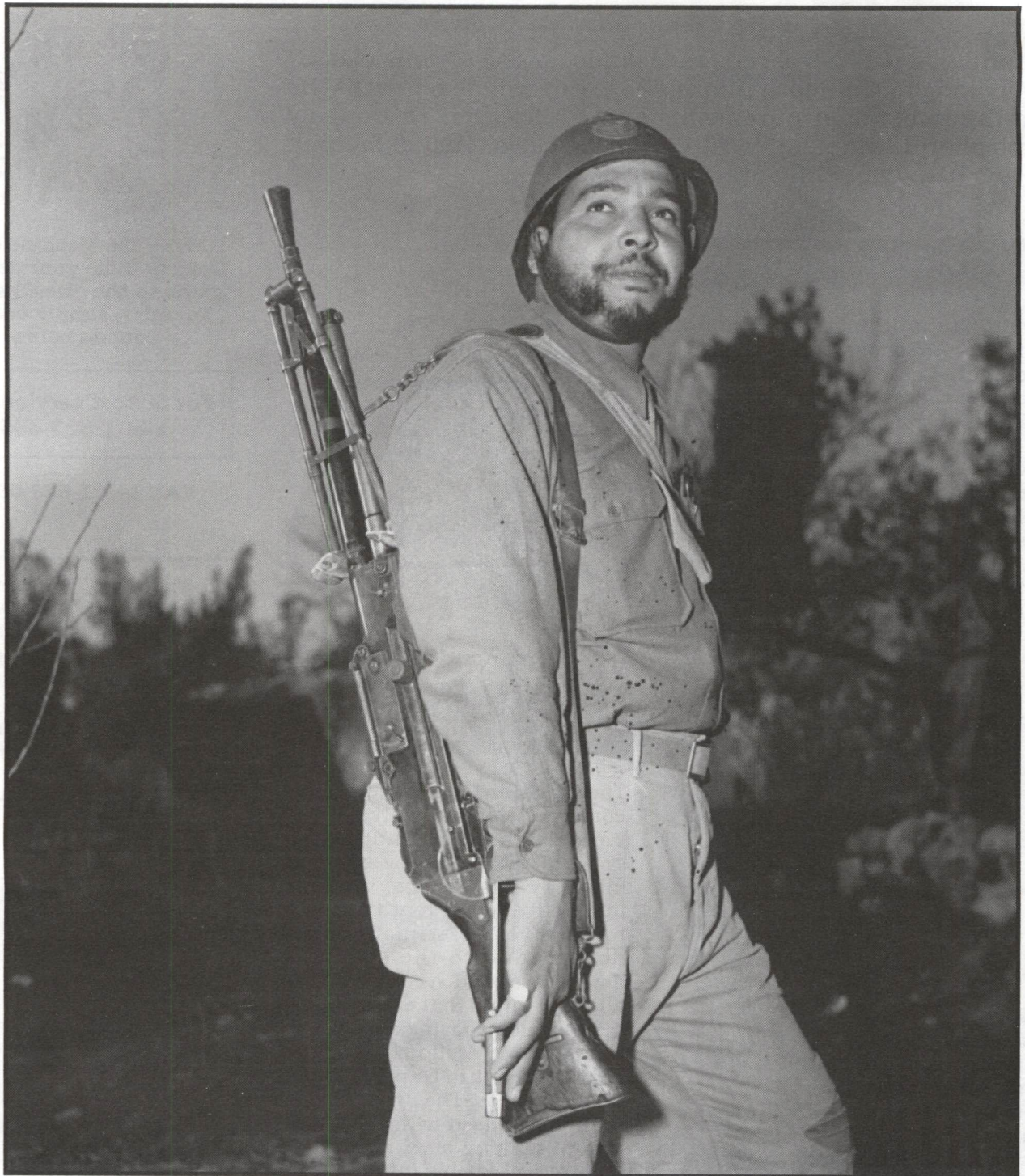
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Archive Photo of The Month

From the Robert Bruce Collection



North Africa, 1943. A hefty Algerian "Goumier" of the French Colonial Forces appears to have a bayonet up his sleeve in a photo posed for an Army cameraman. That's a Chatelleraut Mle 1924/29 automatic rifle—sans magazine— over his shoulder.

Credit: US Army/National Archives. Negative ID: Goum/24/29. Copyright © 1992 Robert Bruce Photography

Editor's Note: Prints of this and many other historical auto weapons action and technical photos are available for publication by special arrangement with Robert Bruce Photography, PO Box 482M, Sandston, VA 23150. Publishers send SASE and information on intended use. (Robert also buys foreign-language manuals, sales brochures, etc. for auto weapons from 1900 to 1970.)

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Wanted: Magazines, parts and literature for Mexican made Trejo Modelo 1 machine pistol. Micro Uzi SMG operator's manual. Beretta 38/49 parts and schematics. Thank you. Dan (713) 522-3216

For Sale: Colt M-16A1, like new \$1900.00. Uzi reg. bolt gun \$1200.00 exc. cond. Uzi reg. rec. by Ciener \$1500.00 V.G. cond. all transferable. Also Ohio transfers done. Call David 513-695-1209

Schmeisser MP 28/11, fully transferable, \$2,000, MP 40 \$1,800, all NFA rules apply. J.O. Weaponry, 2817 Parham Road, Richmond, VA 23294, 804-273-0838

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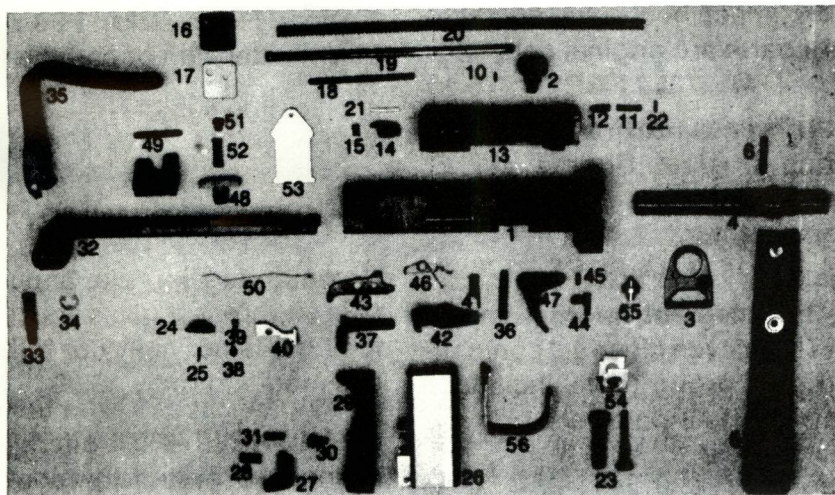
Machine Gun Shoot at Camp Butner N.C. May 29, 30, & 31, 1992 has been canceled.

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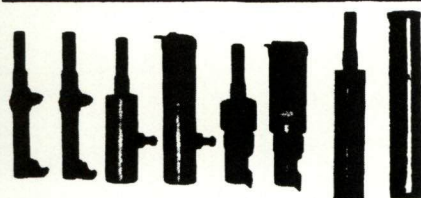


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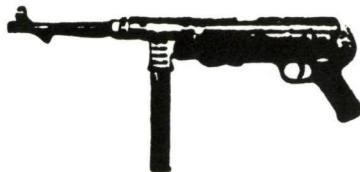
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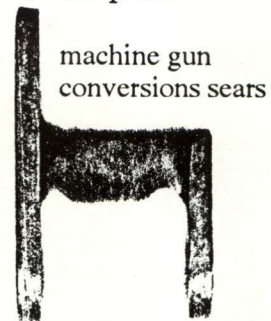
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