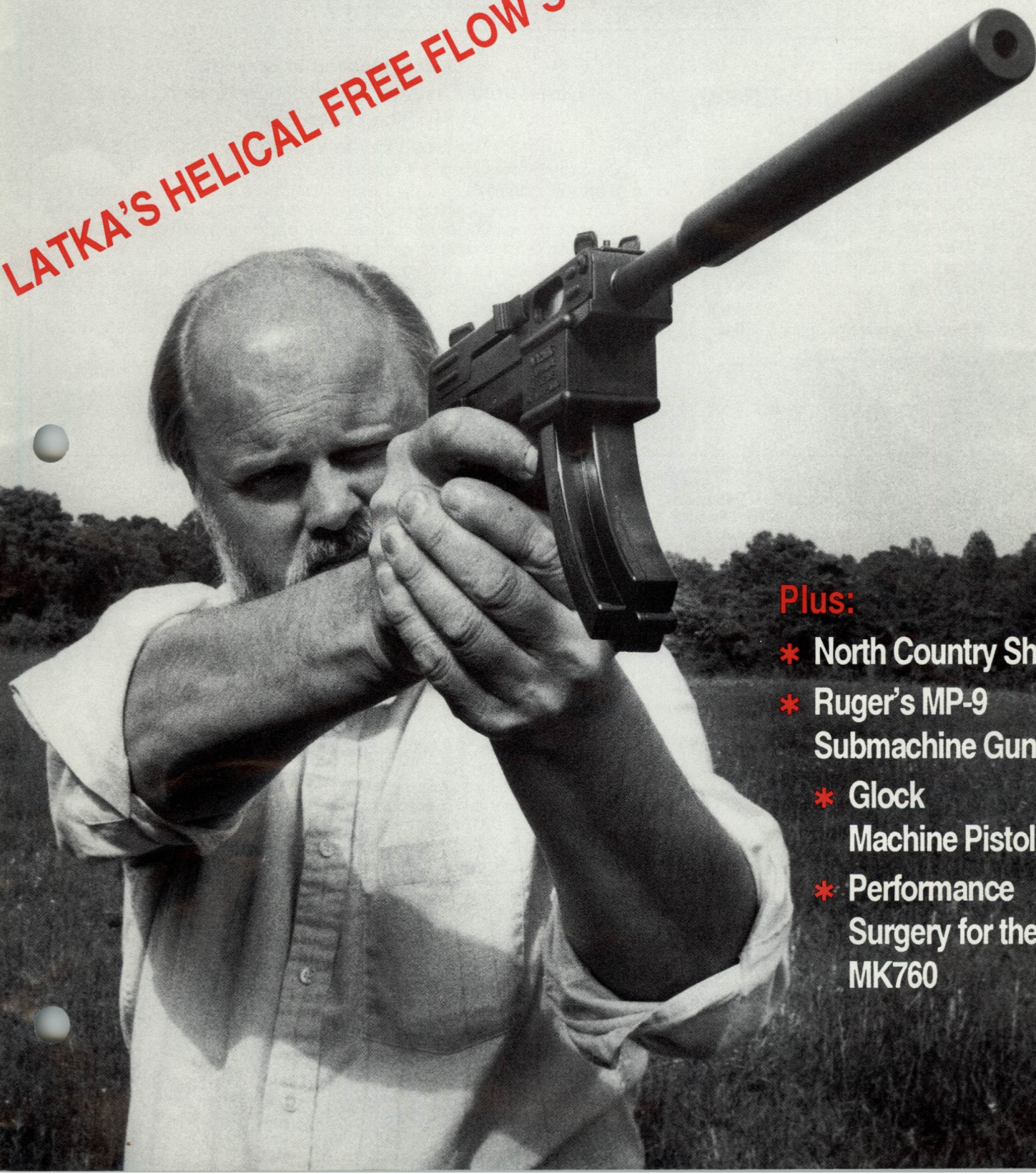


# Machine Gun News

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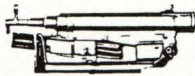
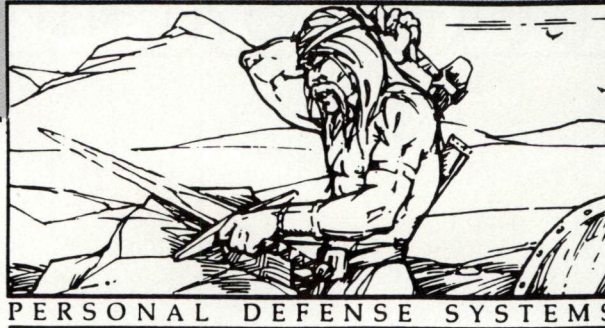


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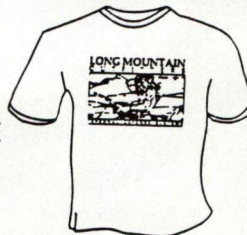
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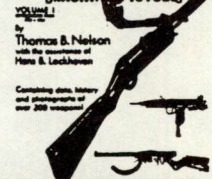
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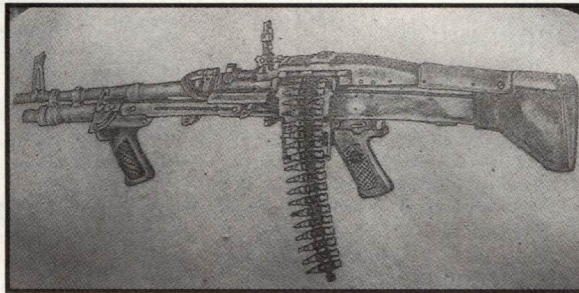
# MACHINE GUN

THE MAGAZINE FOR FULL-AUTO ENTHUSIASTS

N E W S

Volume 7 Number 4

September 1993



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On the Cover: Mark White firing the Intratec TEC-22 pistol Cover Photo: Al Paulson © Copyright 1993

Machine Gun News is published monthly to serve as a forum for Class III dealers and machine gun enthusiasts. We feel it is important dealers and collectors have a source for new products, news and information involving Title II firearms.

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If you'd like to advertise in Machine Gun News contact us for specifications and display advertising rates.

### Contributions

We welcome original material but it must be accompanied by return postage and we assume no responsibility for loss or damage. If accepted, payment will be made upon publication at our current rate. For more information send for writers guidelines.

### Publisher/Editor

Vida Ford

### Technical Editor

Dan Shea

### What's New Editor

Chris A. Choat

### Copy Editor

Mike Shuffield

### Contributing Writers

Robert Bruce

Ken Carter

Chris A. Choat

Robert M. Hausman

Dutch Hillenburg

James Klodzinski

Al Paulson

Dan Shea

Carl Silver

### Cover Photo

Al Paulson

### Production Manager

John Ford

### Advertising Manager

Mary Geoffrion

### Circulation Manager

Lucy Bright

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## CALENDAR OF EVENTS

### SEPTEMBER

**FL Sep 5** - Club Record Match (open competition) Full-auto Subgun (Pistol calibers only) Match fee: \$10.00 members, \$15.00 non-members. Start time: 0900. Port Malabar Rifle & Pistol Club, Palm Bay, Florida. Trophies and ribbons awarded. For more information write to: Fred J. Woerner, 950 N. Cocoa Blvd. #103, Cocoa, FL, 32922 or call (407) 636-0925.

**OH Sep 12** - All Ohio Submachine Gun Match by the TUSCO Rifle Club, Midvale Ohio. 12:00 to 4:00. 3 classes, cash and plaques plus bowling pin match for cash. Call (216) 223-2691 or (216) 878-5065.

**NV Sep 16-19** Wednesday-Saturday 14th Annual Soldier of Fortune Convention Expo and Military Vehicle Show, Sands Hotel, Las Vegas Nev. Three Gun International Match, Firepower Demo. For exhibitor, convention info contact Dianne (303) 449-3750 or write: P.O. Box 693, Boulder, Co 80306.

**NH Sep 18** Saturday Fall Machine Gun Shoot New Boston has been canceled due to alterations at the site. All further shoots will be in Stratford Hollow. (603) 487-3884

**ID Sep 26** (Sunday): The Sixth Annual Idaho State Championship Submachine Gun Competition! Traditionally our biggest prize table match,

with suppressors, \$200 knives, and lots of goodies totaling over \$1,000 in 1992! The event is shot non-tactical style, and will include five courses of fire. Entry fee: \$35\*; \$15\* per additional gun; Spectators free. To be held at the Parma Rod & Gun Club Range, Pearl Rd. (off U.S. 95) 3-1/2 miles north of Parma, Idaho. Registration at 10:00 A.M. match at 11:00 A.M. Refreshments available in the Range House. Shooters, Spectators, I.A.W.C.A. Members and Visitors are welcome! For more information call Shawn Daniel (208) 375-1064 or Jon Carter (208) 888-2829. Or write I.A.W.C.A., P.O. Box 7741, Boise, ID 83707-1741

### OCTOBER

**FL Oct 3** - NFA Invitational Match (open competition) Full-auto Subgun (Pistol calibers only) Match fee: \$10.00, members, \$15.00 non-members. Start time: 0900. Port Malabar Rifle & Pistol Club, Palm Bay, Florida. Trophies and ribbons awarded. For more information see September 5, 1993.

**KY Oct 8-10** - Knob Creek Machine Gun Shoot and Military Gun Show. The nation's largest. Located just south of Louisville. For details write: Knob Creek Range 690 Richey Lane, Westpoint, KY 40177 or call (502) 922-4457.

**ID October 9 (Saturday)** - The Annual Great Pumpkin Fun Shoot! Our pre-Halloween Fun Shoot. Range fee: \$4; Spectators free. Parma Rod & Gun Club Range, Pearl Road (off U.S. 95) 3-1/2 miles north of Parma, Idaho, with the fun beginning at 12:00 Noon. Refreshments available in the Range House. Members and Visitors are welcome! For more information see September 26, 1993.

**OR Oct 9 & 10** - Sub-gun, Assault Rifle and crew served, periods for fun shooting between. Free overnight camping, hot food on premises—maps available. For more information call Dick at (503) 258-6811 (evenings) or write 110 Cedar Drive, Lebanon, OR 97355.

**AZ Oct 25-30** - Machine Gun H&K - MP5 Class taught by Peter Kokalis the Technical Editor of Soldier of Fortune. Total charge is \$700.00, this includes a shoot off Saturday for attendees. For more information call (602) 636-4565. Or write Gunsite Training Center, P.O. Box 700, Paulden, AZ 86334.

### NOVEMBER

**FL Nov 7** - Turkey Shoot Match (open competition) Full-auto Subgun (Pistol calibers only) Match fee: \$10.00, members, \$15.00 non-members. Start time: 0900. Port Malabar Rifle & Pistol Club, Palm Bay, Florida. Trophies and ribbons awarded. For more information see September 5, 1993.

### DECEMBER

**FL Dec 5** - Fun Match (open competition) Full-auto Subgun (Pistol calibers only) Match fee: \$10.00, members, \$15.00 non-members. Start time: 0900. Port Malabar Rifle & Pistol Club, Palm Bay, Florida. Trophies and ribbons awarded. For more information see September 5, 1993.

### MONTHLY

**NC 1st Sat** Triad Action Shooters Klub (TASK). Machine Gun Match held the 1st Saturday of every month. 12:00 noon. For more info write: Captain Monty Mendenhall, Triad Action Shooters Klub (TASK), 100 Wildwood, Thomasville, NC 27360 or call (919) 475-4495.

**OR 2nd Sun** The Albany Rifle & Pistol Club holds sub-machine gun (pistol calibers only) matches on 2nd Sunday of every month at 10 am. Shooters fee \$5 Non-club members are welcome at all our events. For more info write 100 Cedar Dr. Lebanon, OR 97355. Or call Bill (503) 982-4741 or Dick (503) 258-6811.

**FL 1st & 3rd Sunday** The Port Malabar Rifle and Pistol Club, Inc. conducts full-auto events on the 1st and 3rd Sunday. Unless otherwise specified, the 1st Sunday is a match and the 3rd Sunday is practice. For more information see September 5, 1993.

*For your event to be listed in the Calendar of Events please contact us at Machine Gun News, P.O. Box 759, Hot Springs, AR 71902-0759 or call us at (501) 623-4951.*

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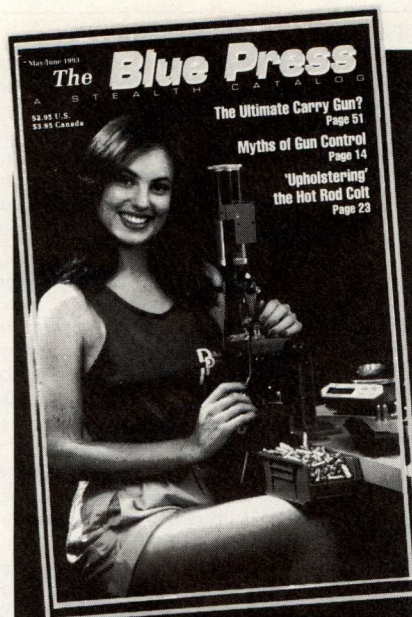
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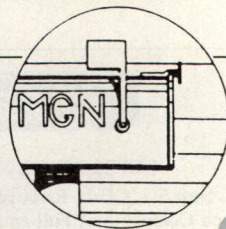
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# Incoming

## LETTER OF SUPPORT?

Please inform your readership that on May 4, 1993, the American College of Surgeons sent a letter to John H. Chafee (R-RI) commending him for his efforts and offering support for his legislation S.892, The Public Health Safety Act of 1993. S.892 proposes to prohibit the importation, manufacture, sale, possession and transportation of handguns or handgun ammunition. A six month grace period would allow handguns to be turned over to law enforcement with "impunity" for reimbursement of \$25 or "fair market value, whichever is greater." This notification to members of the American College of Surgeons was contained on page 6, Volume 78, Number 6 of the Bulletin of the American College of Surgeons. This is a decision that was evidently made at the executive level of the college but the damage has been done. Senator Chafee and his ridiculous legislation now has an apparently prestigious feather to add to the cap of supporters. I urge every member of the organization to contact the director of the ASC, Paul A. Ebert, M.D. at 55 East Eerie Street, Chicago, IL 60611 and discuss this matter with him. Contact your respective governors and regents as well. Let each of them know your "appreciation" for the college usurping your rights in supporting this ludicrous legislation. Spread the word to every Fellow that you know and have them do the same.

Of equal importance is informing your own two senators as well as Senator Chafee that while they may have a letter from "the College" that the membership of the college was never asked and does not support this piece of legislation.

If you are not a surgeon, call your surgeon and tell them about this situation. Urge them to do something. In all probability, the supporters of this legislation realize that its chances of passage are minuscule and hope that it will be used as a bargaining chip for other restrictive legislation. We can no longer afford compromise.

If you wish, please also send a copy of your letter to me. I will be happy to put together a mailing list of physicians who support responsible gun ownership and

who oppose further government restriction on the lawful use and ownership of firearms. Remember, your silence is your consent.

Michael L. Foreman, M.D.  
707 Gaston Avenue Suite 500  
Dallas, Texas 75246

## THANK YOU READERS

I would like to thank the readers of *MGN* for the very positive response to the article on Bonnie and Clyde. Though the article grew out of research for the new Thompson book, I plan to do more writing about them in the future. Several of you have sent me both photos and newspaper clippings through third parties. I have asked *MGN* to publish my address to make it easier to contact me. Since they ranged over such a wide area, there are a number of interesting local newspaper accounts that would be most helpful. Thank you all for your interest.

Rick Cartledge  
Georgia State Patrol  
427 N. Expressway  
Griffin, GA 30223

## BBS WHERE ARE YOU?

To: Paragon Systems Consulting BBS

It was with great anticipation that after reading your classified advertisement in *MGN* that I began to call your BBS. The line was busy literally for weeks at randomly tried hours.

I contacted Vida Ford at *MGN* to determine whether your advertisement text was correct. Her response was to the effect that your BBS had experienced a hard drive failure and the system would be back up within a few weeks. Please keep trying.

When connected, f-i-n-a-l-l-y, on May 20, 1993, for a grand total of 29 seconds, the message to call back and register after June 1st was received. O.K. I can also try to believe that one, too.

Today, after over 340 tries, YES!, I am obsessive when it comes to my interest in the subject of Title II & Class 3 world, I finally connected at 6:41 am. Much to my distinct displeasure, I received another in and registration put off, this time until September 1st.

What's with your company? Is your

Machine Gun News - September 1993



commitment to truth in advertising, or to others with similar interest in computers and Class 3, for real?

P.J.

#### **POLOGY CONCERNING BBS**

TO: *Machine Gun News*, All NFA and Class 3 Enthusiasts

RE: P.S.C. Bulletin Board System

I am issuing this notice in response to the numerous calls and letters received regarding the status of our electronic bulletin board system (BBS) as advertised in *Machine Gun News*.

The BBS unfortunately had to be shut down near the time of the publication due to mechanical failure on the main server of our computer network, which operates as a host machine for all the dependent BBS nodes. The entire BBS structure was lost during this failure, and there was no backup on file.

This failure caused extreme delay in the opening of the newly designed BBS configuration, which is dedicated to the interests of firearms ownership, and specifically NFA and Class 3 weapons.

As of July 9, 1993, the bulletin board system went back online with six new dedicated computers running the BBS, four of which are currently answering the incoming calls. The new computer setup has been installed in such a way that all machines are operating independently from each other, in order to prevent any such failure in the future.

We have scheduled to open to the public on September 1st, 1993. We sincerely apologize for such a lengthy delay.

In the meantime, please forward any suggestions you may have for the new BBS configuration directly to my desk via facsimile at (703) 793-4925, or via my personal voicemail at (703) 660-5301. All of your recommendations for the new installation are greatly appreciated.

You are invited to call P.S.C. BBS for the opening September 1st, and as stated all users who identify themselves as *MGN* subscribers will receive a free subscription to our BBS.

Paragon Systems Consulting  
Bergie M. Frazier Jr., Owner

We appreciate your comments and suggestions. Please mail them to:

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# The FBI's New Firearms Policy: The "Clinton Bureau of Investigation"?

by KEN CARTER

*Machine Gun News* recently received a copy of a confidential memo to now-departed FBI Director William Sessions that is one of the most frightening documents we have ever seen.

The paper, dated May 5, 1993, details the findings of an in-house panel assembled at the director's behest to draw up a proposed FBI policy on gun control. If adopted into law, this policy would sound the death knell for the Second Amendment to the U.S. Constitution, and spell an end to the freedom Americans presently enjoy to own and use firearms for sport, hobby and self-preservation. It would also leave the citizens of this country defenseless against the whims and totalitarian leanings of their own government.

Eight single-spaced pages in length, the memorandum, drafted by John E. Collingwood of the agency's Office of Public and Congressional Affairs, sets forth six elements of the plan, and then lists additional actions deemed necessary to implement them. It draws heavily from statistics published in the June 10, 1992 edition of *JAMA*, the *Journal of the American Medical Association*, portraying the private ownership of firearms as a "public health" issue.

Before taking up what the document proposes, let's look at what it does *not* include. It does *not* suggest penalizing or removing from office federal judges and prosecutors who repeatedly ignore existing "mandatory" sentencing guidelines for those who use firearms to commit violent criminal acts; it does *not* call for life sentences, without the possibility of parole, for those who have made a career of using firearms to prey upon society; it does *not* propose broadening the "capital crimes" statute to include those who commit random, cold-blooded acts of murder with firearms; it does *not* demand an end to "early release" programs that make a mockery of the sentencing process; and it does *not* state that the law should be applied evenly to all, regardless of race, sex...or age.

It also does not mention that, historically, restrictive gun laws have done nothing to stem the increase in criminal behavior, but rather have made matters dramatically worse.

In short, it is not an "anti-crime" proposal. It is simply "anti-gun."

What it *does* propose is:

1. *The federal licensing of all handguns, to include mandatory training of anyone wishing to obtain a license.*

It isn't mentioned, but a fee would understandably be necessary to cover the administrative costs of such a program, and it would no doubt have to be a substantial one, since it is also suggested that the government institute a "buy back" program for those who did not wish to...or failed to...meet the licensing requirements.

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*Interestingly, support for the Brady Bill is the only part of the FBI policy statement that the general media have seen fit to publicize. And, considering the scope of the memo, this is one of its least offensive suggestions.*

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(The memo mentions that the panel "discussed at length whether the FBI should recommend a general ban on the possession of handguns," but concluded that this "would likely place us outside the scope of the current debate over firearms," and "marginalize our overall impact." No matter; once all handguns are licensed [registered], the failure of the proposed measures to eradicate crime could be used as an excuse to come after them.)

2. *Immediate enactment of the Brady Bill.*

Although expressing reservations about facets of the existing bill - primarily those

placing time limitations upon the Attorney General and the Department of Justice to bring about an instant background check system - the panel feels that the Brady Bill is a good starting point, and "warrant(s) the full support of the FBI."

(Interestingly, support for the Brady Bill is the only part of the FBI policy statement that the general media have seen fit to publicize. And, considering the scope of the memo, this is one of its least offensive suggestions. Read on...)

3. *"The group recommends a complete ban upon the possession or transfer of assault firearms. This would include high capacity, rapid firing rifles and handguns, as well as submachine guns. These types of firearms are the most destructive and possess little or no utility for sport or target shooting."*

As written, this description is sufficiently vague to include virtually all semi-automatic firearms. And, of course, since machine guns, sub or otherwise, are already banned unless federally registered, the panel is suggesting the confiscation of a category of firearms that has no history of criminal misuse whatsoever.

4. *Banning armor piercing ammunition.*

It is proposed to broaden the definition of armor piercing ammunition to include any that has the capability to penetrate police body armor, regardless of bullet construction.

(Since there is no distinction made between handgun and rifle ammunition, this proposal would do away with virtually every rifle cartridge currently in use for hunting. You could continue to possess your bolt-action pre-64 Model 70; you just couldn't buy bullets for it!)

5. *Enhance regulation and oversight of federally licensed firearms dealers.*

This proposal is two-fold: it calls for substantially increased fee and licensing requirements that would eliminate probably 95 percent of all current FFL holders; and, in carefully couched terms, it calls for "a reallocation of existing resources to in-



crease the regulation and oversight of federally licensed firearms dealers, importers, manufacturers, and collectors." (Just whose resources do you suppose they mean? And to whom would they be "real-  
ed"?)

included is a requirement that an applicant have "an existing place of business before an FFL to conduct firearms business could be issued; requiring applicants for FFLs to provide proof that they have met all

*The latter two elements, of course, would open the door to unlimited harassment of those gun dealers who managed to "make the cut." So much for the dealer-protection clauses of The Firearms Owners Protection Act.*

applicable state and/or local laws and regulations pertaining to gun dealers; increasing the frequency with which Federal authorities may inspect the inventory and records of FFL holders; and reallocating resources within appropriate agencies to ensure that increased inspections are in fact conducted."

The latter two elements, of course, would open the door to unlimited harassment of those gun dealers who managed to "make the cut." So much for the dealer-protection clauses of The Firearms Owners Protection Act.

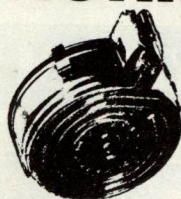
6. *Afford priority to investigations of major thefts of firearms.*

The paper concludes by recommending that the Office of Public and Congressional Affairs (OPCA), quote, "develop a media strategy to publicize and develop support for the FBI's position."

In his introduction to the memo, Collingwood acknowledges that it is counter to the FBI's policy to comment publicly on an issue of so political a nature, and he anticipates that the bureau will draw criticism for doing so now.

Agent Collingwood should be informed that it is considerably more than just a matter of FBI policy; it is the law. Title 18, Section 1913 of the U.S. Criminal Code prohibits a federal agency from using appropriated funds to lobby Congress,

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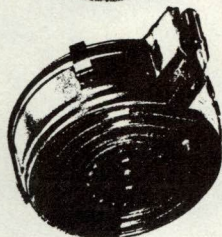
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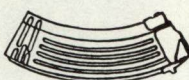


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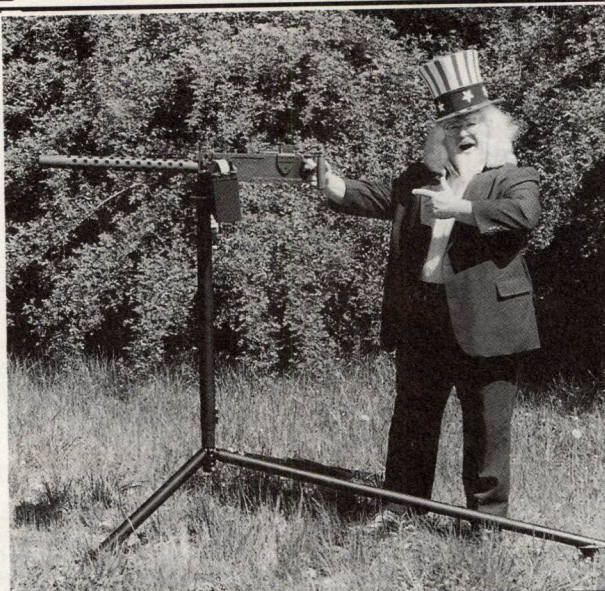


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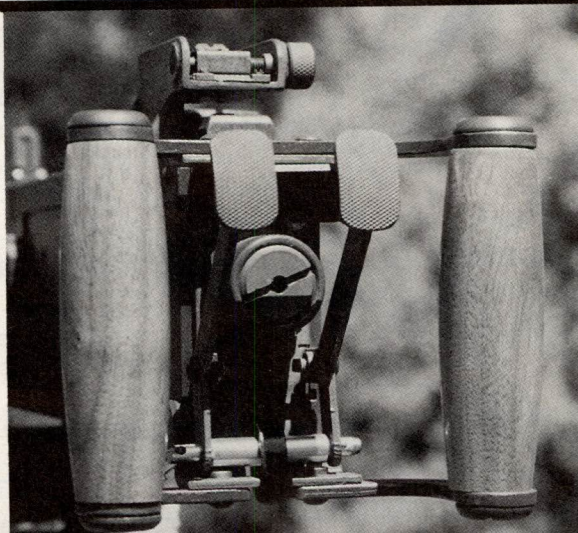
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directly or indirectly, to support or oppose any legislation. J. Edgar is probably boring right through the foot of his coffin!

Reading between the lines - with one eye tied behind your back - it is not difficult to discern that those who drafted the proposal are posturing the FBI to supplant the BATF as the Clinton Administration's new "Gun Police." With that would come more power, more personnel, more money and more opportunity for bureaucratic advancement.

*Reading between the lines - with one eye tied behind your back - it is not difficult to discern that those who drafted this proposal are posturing the FBI to supplant the BATF as the Clinton Administration's new "Gun Police."*

In his July 11 report, Neal Knox wrote that what we are probably seeing is the Clinton firearms platform, handed down from "on high," and that, Sessions or no Bill Sessions, there will be a push to have it implemented during the next four years. It would not, after all, be the first time the current administration had attempted to politicize the FBI. (Remember "travel-gate"?)

It is time, gentle people, to mount the battlements...to become involved. Unless we have the resolve to beat back this latest and most flagrant assault upon our rights, America as we know it...as our forefathers envisioned it...will topple into the morass of One-World'ism, and its days of greatness are at an end. Freedom will become a concept you can try to explain to your grandchildren in your waning years.

If you would like a copy of the entire FBI memo, exactly as we received it, send a self-addressed, letter-sized envelope with two stamps to:

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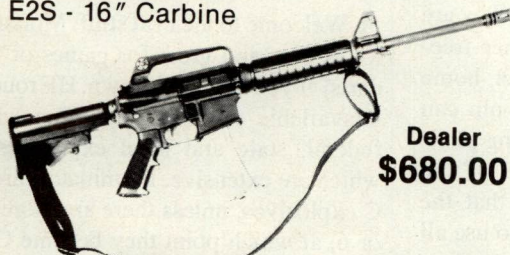
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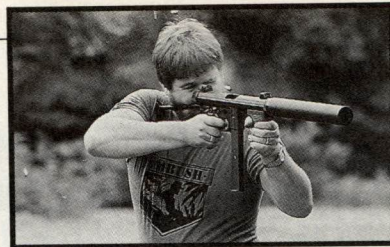
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# Raffica

by DAN SHEA



*"Quis custodiet ipsos custodes?"*

(Who shall keep the keepers themselves?)

What is the market doing? Hard to tell—but that is the big question that I am asked everywhere I go. Summer months are always slow for sales, and I have compared them from the last ten years of sales, and after adjusting out for the 1986 MG ban-inspired boom and the 1989 semi-auto import ban boom, it seems about normal. Some types of guns seem to be drying up—the more exotic ones especially. As soon as I think there aren't any more of a certain firearm available, a collection or cache shows up on the market. I would expect better sales this fall, and, probably a frenzy when the anti-Second Amendment Rights groups start their push. Waco took the momentum they were starting, but with Janet Reno as Attorney General—totally against firearms in private hands, Donna Shalala and Jocelyn Elders moving into position—both on record as saying that firearms are a disease and should be treated as such, we can expect some truly interesting days. The rhetoric should be reminiscent of Mao's little Red Book, the ANC, the IRA, the Shining Path and the Khmer Rouge. Just watch out for the re-education camps. Lies disguised as truth—personal agendas as "caring," disarming the populace as "health measures." We need to stand up to these people. Write to your Congressmen, write letters to the editor, give to the groups leading the fight, and show up at the demonstrations that are sure to follow. As Jeff Cooper once said, "Ride, shoot straight and speak the Truth."

**Q** This might need to be directed to Jim Klodzinski of Gunmachines rather than Raffica but here goes. When a Thompson M1A1 is fired, how far down on the case head (distance) should the lower lip of the bolt strike to take the shell from the magazine and feed it into the chamber? I have the 13 step Manual for making Thompsons work, but I would like to get a little more detail on this.

Stephen

**A** The driving edge of the bolt face should be about 2/3 of the distance of the rim to the primer edge. Definitely not touching the

primer. It will be hitting on the inside of the rim face, not the top, because this is a dual feed magazine. Some of the newer Thompsons feed well on the right side of the mag, but jam on the left. Look at that relationship when troubleshooting on feed problems.

**Q** Several years ago I purchased a registered drop in auto sear for a Colt AR-15 manufactured by SWD. Needless to say I haven't had real good luck with it functioning properly. Perhaps in a future article you can go over the tuning up of these sears and associated parts in order to make them function properly. I also know that the bolt carrier, the selector, trigger disconnect and hammer need to be replaced in an AR-15 with M16 parts to make it function with the sear.

I would appreciate it if you could go over the functioning of these parts together and how the parts, when working properly, can prevent the dreaded "slam-fire" before full battery has been obtained.

David J.

**A** The slam-fire is not a problem associated with these devices, unless they are not working at all and the hammer free-floats and follows the bolt carrier home where it locks up and the firing pin can strike the primer. (Unless your firing pin is locked forward somehow.) One of the problems that you have here is that the SWD auto connector is designed to use all original AR-15 semi-auto parts. It gives you full-auto fire only. For those who aren't following this, the SWD model is the flat piece that slips into the lower receiver, and has another flat piece of metal that slips inside it, simulating the position of the auto-sear in an M16. They came with two different "sear" positions, one thin, and one thick. You needed to try the thin one first, then reverse it, then try the thicker one until you had it working.

**Q** I have purchased a demilled 60mm and have filed a Form 1 and am awaiting approval from ATF. In the meantime, I am gathering dummy rounds and seeking information on loads. I am aware that the 20 ga. shotshell seems to be the natural choice once it is shortened. I have information

from an old TM which states that the original training round was good for about 230 yards. Additional distance was obtained by charges attached to the fins. I would appreciate any information you can give on the following questions:

1. What powder and how much?
2. Do you perforate the shotshell to match the holes in the fin or just let it blow through? (Perforated shell would contain powder in paper envelope or glassine bag.)
3. What has been your maximum range obtained with training dummies?
4. How was it obtained? Were extra increments used?
5. Is there a steady supply of rounds available? What is a good quantity price?
6. Anything else that you feel that I should know?

I am a machine gun fan but live in upstate New York where possession is impossible. I am an experienced reloader, and I am looking forward to playing with the New York legal 60mm toy.

Many thanks for your help.

Don

**A** Welcome to the neat stuff. Mortars are a lot of fun, and great for games of "lawn-darts" if you have a big lawn. HE rounds are unavailable without complying with the federal, state and local explosives laws, which are extensive. Illuminators are Class C explosives, unless there are more than 5 or 6, at which point they become Class A according to DOT. Smoke is the same way. Lots of liability problems firing those babies off. Most mortar enthusiasts just fire the practice rounds. These were HE bodies with fins that were filled with concrete and a rounded nose. Many of the empty bodies are available today, with the fins being a little harder to get. Try wrapping fluorescent tape around the mortar round body, just above the fins, to help finding them after you shoot them, or paint the fins fluorescent orange. They cost \$10-25 each, and can be re-used indefinitely—as long as you can find them! I use 20 gauge shells cut off to around 2" with 45 grains of Hercules Bullseye powder. I put the cardboard wad back in to hold the powder in, then push the shell into the fin base. Your round must



weigh 3 pounds or more, or it won't hit the firing pin hard enough. Stay out of the way when you fire this, it can kill you when it comes out of the tube. If you have a misfire, count to ten, then lift the base plate off of the ground so that it tilts the tube top toward the ground, allowing the dead round to slide out onto the ground. Make sure no one there gets in front of the mortar at any time, and everyone has eye and hearing protection. When that round comes down, you will feel it strike the ground and shake it. That's just a dummy round! Make sure you have 6-800 yards clear area before you start, until you learn your range. The incremental charges that can be added to the fins can be simulated by making bags out of panty hose, and experimenting with adding 5 grains at a time. Good luck, enjoy, and above all else, be careful!!!!

**Q** I'm sure I wasn't the only Sten owner whose tiny mind started ticking away at your mention of the Sten mag working in a Sterling SMG.

Please, please Dan, tell us there is some way to modify a Sterling mag so it will function in a Sten.

If that doesn't work out, and I suspect it's too good to be true, can you explain who the Mr. Parker of "Parkerizing" was?

In any event, always enjoy your department.

B.L.F.

**A** Out on both counts—the Sterling bolt is set up to feed either dual column magazines or the single round presentation of the Sten magazine. This was done so that the Sterling could use whatever was available for feed devices, in the English arsenal (including Lanchester 50 rounders). The Sten bolt is only set up to feed from its single round feed lips. You COULD modify the bolt... and then you would be able to use magazines that are twenty times as expensive, but curved.

As far as the Parker of parkerizing, I haven't got a clue—I throw this one out to the Rafficarians to answer—hopefully next month.

**Q** I have a couple of questions about the M-231 port firing weapon. Is it available in semi auto or select-fire models? Is there a .22 rimfire conversion kit? Is it available to the general public and about how much would it cost? Can an M203 be fitted to it? Even though I have many gun books, I still can't answer these questions. I hope you help.

Jeff

**A** The M231 is a small production military version of the M16.

(Continues)

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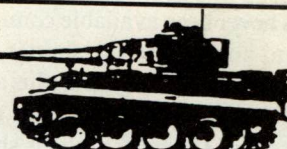
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It has never been available commercially as a semi-auto. It had a shorter barrel and different front handguard, plus a collapsing wire buttstock similar to the M3A1 greasegun. The buffer tube is shorter and it has a lighter bolt carrier. These add up to good maneuverability in confined spaces, and a cyclic rate pushing 1400 rpm. The M203 grenade launcher will not fit on the barrel configuration without modification, and the .22 sub-caliber kits have not been tried that I know of, but I imagine that they would fit in place. Since the .22 kit does not use the buffer assembly, there is a good chance they would work, and at a lower rpm. The M231 bolt carrier will fit into an M16, and the cyclic rate does increase considerably.

**Q**I need some information about the markings found on major parts of American manufactured Browning Model 1919A4 machine guns. By major parts I mean the following: side plates, trunion block, top plate, bolt body, bottom plate, lock frame, back plate, barrel extension.

Because the 1919A4 has been made in different parts of the world and there are also some inferior after-market parts out there, I think you will be doing a great service to your readers if you told us what to look for. If I am not mistaken, the trunion block, bolt body, lock frame and barrel extension are heat treated machined steel parts. No castings were used. Are U.S. issued trunion blocks chrome plated?

John

**A**Tall order, John. There have been so many parts manufacturers that I couldn't name them all, or even generalize. Some U.S. manufacturers used a code—BA was Buffalo Arms, etc. You will find these marks on some parts. Some put an assembly number under the sideplate, on the trunion. We're going to be running several series on the 1919 series in *MGN*, so we'll try and address it there. You are correct that most U.S. parts were heat treated machined steel, but some of them have been produced from castings in the recent past. Some trunions have the chrome on them, but not many. Chroming helps stop wear from using metal links, and metal links should be avoided if you don't have the chrome trunion. They will wear a hole right through the feed area.

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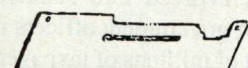


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	or 5 for \$100
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	2/\$ 170
	3/\$ 250
.308 Cal. IMI New Unissued	1,000/\$ 40
US GI 1928A1 Actuator exc.	\$ 125



# Scattered Shots

by KEN CARTER

"A jury today has said that you can't kill somebody just because you wear badges, and then cover up those homicides by prosecuting the innocent."

- Gerry Spence, Attorney for Randy Weaver, NY Times

"These acquittals send a message that representatives of authority may not only have exceeded their mandate, but have carried out their mission in an irresponsible way."

- Tony Cooper, Law Enforcement Consultant, LA Times

"What this shows is that juries and people in general are not willing to hand law enforcement officers a license to do anything they want."

- Paul Rothstein, Georgetown Univ. Law Professor, USA Today

"Given a chance, the American justice system can work."

- Spence, quoting Randy Weaver

Those comments came at the end of the Boise, Idaho, trial of Randy Weaver and Kevin Harris that stemmed from a bloody shootout and siege at Weaver's mountain-top home in August, 1992. That incident left a deputy U.S. marshal and two members of Weaver's family dead.

If you followed the case, you know that Deputy Federal Marshal William Degan and Weaver's 14-year-old son, Sam, died in an initial exchange of gunfire that took place when Sam Weaver and Harris, a family friend, encountered camouflaged federal agents hiding in the woods near the Weaver cabin. Harris claimed he shot Degan in self-defense after Degan killed the family dog and another agent shot Sam in the back as the boy was running for home. The following day, Weaver's wife, Vickie, had her head blown off by an FBI sniper as she stood in the cabin doorway cradling the couple's 10-month-old baby in her arms.

During the trial, Federal District Court Judge Edward Lodge sharply criticized the FBI for first removing, then fabricating, and, finally, withholding vital evidence.

In the end, the jury acquitted Weaver and Harris of all charges relating to Degan's death. Weaver was convicted only of relatively minor charges arising from an earlier failure to appear in court on a charge of selling two short-barreled shotguns. He has claimed throughout that he was set up

by federal agents in an attempt to get him to snitch on a neo-Nazi group he says he never belonged to.

As this is written, Idaho authorities are considering filing charges against the Federal Government in the deaths of Mrs. Weaver and her son.

There are numerous similarities between the Weaver case and the abortive BATF raid on the Branch Davidian complex near Waco, Texas.

- In both instances, federal agents focused on people who adhered to unorthodox religious beliefs.
- In neither case had those being sought been convicted of prior criminal acts.
- The Weavers, like the Branch Davidians, were generally reclusive, keeping mostly to themselves.
- Each time, lengthy surveillances were conducted under the guise of investigating alleged illegal weapons activities.
- During both operations, prominent roles were played by the BATF and the FBI.
- Both situations evolved into standoffs with hundreds of government officers involved, at a cost of millions of taxpayers' dollars.
- In the opening stages of both operations, news was tightly controlled by government spokesmen, and releases to the media were characterized by misinformation and daily contradictions.
- In each confrontation, there is evidence to indicate that non-combatants may have been deliberately targeted by federal sharpshooters.
- At Mount Carmel, as on Weaver mountain, imprudent, and perhaps illegal, actions by federal authorities resulted in the deaths of women and children, as well as those of their own officers.
- As for whether tank-happy agents in Waco were responsible for the destruction of evidence crucial to the investigation of that cataclysmic tragedy, that remains to be seen, but I refer you to the review of the videotape, *Waco - The Big Lie*, elsewhere in this issue.

\*\*\*

To paraphrase, "The price of vigilance is eyestrain." I've been doing a lot of reading lately. For others so inclined, I'll share some excellent sources:

As I've mentioned before, you can't really be well-informed on the rapidly-changing world of gun legislation without a subscription to *Gun Week*. Editor Joe Tartaro's "Hindsight" and Dean Speir's "Industry Intelligencer" alone are worth the price. (*Gun Week*, PO Box 488, Station C, Buffalo, NY 14209. \$32.00 annually.)

*Soldier of Fortune* has been running an ongoing series on governmental excesses (Lawmaster, Weaver, Waco) by James L. Pate. Pate is a "digger," and taps sources you are unlikely to see quoted anywhere else. For those wishing to stay abreast of the foibles of Pres. Bubba, *SOF* also offers "Slick Willie Watch." And, of course, there's "Mr. Machinegun," Peter Kokalis. (*SOF*, PO Box 348, Mt. Morris, IL 61054, or call 1-800-877-5207, \$28 annually.)

Somewhat outside the mainstream gun media, Bob Lesmeister of *American Firearms Industry* magazine penned two excellent and scholarly pieces on the Waco debacle. In "Sects, Lies and Videotape," he details the initial raid by BATF, and in follow-up, "A View To A Kill," he rips apart the affidavit BATF used to obtain their warrant against Koresh and company. To obtain copies of his articles, write to Bob c/o AFI, 2455 E. Sunrise Blvd., Ft. Lauderdale, FL 33304. (You can subscribe for \$25 a year.)

The issue of the warrant - and a clue to the real reason ATF went after the Davidians - is also handled in masterful fashion by Daniel Wattenberg of *The American Spectator*. Send \$5 for a copy of his story, "Politically Koresh," to: American Spectator, PO Box 549, Arlington, VA 22216 (703 243-3733).

And the best source of information on the Randy Weaver case I've seen is *A Mountain of Lies*, a book by Kirby Ferris (PO Box 603, Stinson Beach, CA 94970, \$10 postal money orders only). Ferris also offers some interesting views on gun control, the Constitution, the federal government, etc., and lists a bibliography of other books that might be of interest to you.

While we're plugging other writers and publications, Attorney Karen MacN... who writes "Legally Speaking" for *Women & Guns*, recently observed that anti-gunners can not prove that the passage of any



gun law has ever saved a life. And since, she noted, in the Waco incident alone, the enforcement of gun laws cost nearly 100 lives, shouldn't we repeal those laws? "If just a single life can be saved..."

\*\*\*

How would you like to purchase a new AKM for just fifty bucks? According to intelligence sources, that is the going rate in Russia, where hard-pressed military commanders are wholesaling their hardware to get money to feed their troops. It is believed that as many as 500,000 AKs have been gobbled up by international arms dealers for resale in the Middle East and such places as Central America and Colombia. As gun laws become more restrictive in this country, it's a good bet that some of these "for-real" assault rifles will eventually show up on big city streets in the U.S., as well.

\*\*\*

A couple of headlines I picked out while leafing through the local paper:

"Molesting eight boys gets priest 275 years," one read.

A few pages over: "Priests hoping Vatican OKs alter girls."

\*\*\*

In June, San Francisco deejay M. Eric "Mancow" Muller was given 3 years probation, 100 hours of community service and a \$500 fine for impersonating the Chief Executive.

Muller and his sidekick, "Chuy" Gomez, snarled traffic for an hour when they parked their van on the Bay Bridge while Gomez had his hair cut.

#### Cheap Shots, The Movie

Did you hear that Iraq and Iran are going to merge? They'll call themselves Irate.

In a speech, Texas Congressman Lamar Smith referred to Bill Clinton as "Pinocchio on the Potomac."

"The problem," says Smith, "is that every time he lies...our taxes grow!"

1st: "Did you hear that they're gonna carve two more faces on Mt. Rushmore?"

2nd: "Really? Whose?"

1st: "Clinton's."

**Best Quote:** On his July 6 radio show, G. Gordon Liddy recounted his July 4th weekend, which he spent, he said, teaching his grandkids about Independence Day. "They got to watch us firing a belt-fed, crew-served weapon. That's right...a machine gun! By God, those kids found out what the 4th of July was really about!"

Machine Gun News - September 1993

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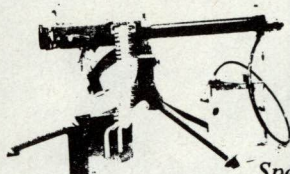
C-9 Suppressed Colt 9mm SMG



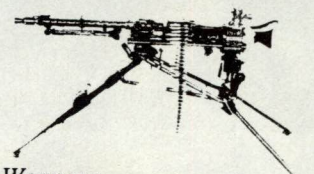
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This is a matched serial numbered set. \$5500. for the pair.



# NORTH COUNTRY SHOOT

by DAN SHEA

Photos by MATTHEW DESIMONE



Jim Ballou and Pat Sheehan were married Saturday evening. Photo: Dick Morin

Smoke was billowing around me, blinding me, choking me, but I had a job to do and it was not the kind that you could stop in the middle of. I didn't have time to think, which is the best way to be when you are in these dire circumstances. We were all on the edge of being shell shocked from the close-in staccatto blasts of the machine guns and cannon. I thought I had it under control, then the rumble of a fast moving tank

came across the field. How much more of this could my small crew handle? Sweat poured off our bodies as we fought to keep up with the hoards. This tank had to be able to breach our defenses, but I didn't want the crew to see that fear on my face. We locked and loaded, and threw ourselves into the job. I wouldn't be here to tell this tale if we had failed, so obviously we completed the mission. I must admit to some shaking of my resolve when I saw Jon Ciener on top of



The subgun bowling pin contest saw 6 teams of 3 shooters competing on Sunday morning. The winning team came from the Metacon Gun Club in Simsbury, Connecticut.



During the three day shoot, about 100 pounds of dynamite was placed downrange to provide REACTION targets for the gunners.



The North Country Shoot attracts ALL shooters! This was the first year we saw an all female gunner and assistant gunner team.

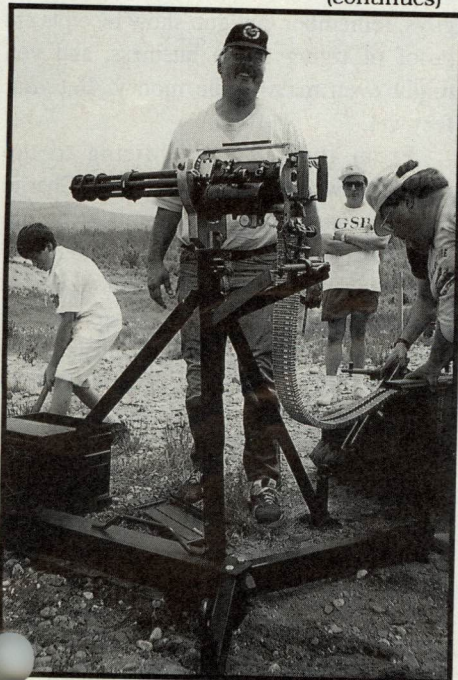


the tank, waving a martini and hollering for more barbecued chicken. It was a fearsome sight. But, the barbecue crew was up to the challenge. It was, after all, just another Saturday night at the North Country Shoot.

I enjoy the Machine Gun Shoots, probably more than I should. Knob Creek is a Mecca, large crowds and lots of deals going on. The North Country Shoot, on the other hand, is smaller, more like a family gathering, even though several thousand people showed up. Set in the awesome White Mountains of New Hampshire, about thirty miles from the Canadian border, we're set into a valley, miles from civilization. (But not too far from the hotels and campgrounds of this recreational area.) Dealers and shooters with line positions are allowed to camp on the sight (Primitive camping - no electricity or water), which is what all of the foolishness I began this article with is all about. We gather into little groups and barbecue, campfire, listen to music live, occasionally, and swap Class 3 information.

At the July 93 shoot, Jim and Pat Ballou got married Saturday evening. On the Firing Line. With Twin Thompsons. They rode off on top of a Stuart tank, replete with "Just Married" signs and strings of cans trailing behind them. Just watching them fire their Thompsons together brought warm gushy feelings to the wedding revelers, best summed up by the blushing bride when they were asked to come to a barbecue. She said, "No, of course not, we have to go link ammo for tomorrow."

(continues)



This shoot saw two G.E. M-134 Miniguns on the line. The big guy (smiling) is trying to figure out how to attach a shoulder stock to the gun.

# ANM2 Shorty (THE BEAST)

by ANGELO RIZZA  
photos by DICK MORIN

Not long ago, my friend Jim Heffler and I were reviewing some photos and videos that we had taken at some of the North Country Shoot events in New Hampshire. While we watched, we couldn't help but notice the enormous muzzle flash produced by some of the shorter barreled weapons such as the HK 51, the M16 Shorty, and the GE Mini gun. Our observations soon produced an idea. "What about an ANM2 Shorty?" Jim said. My reply, "Let's go for it!"

Jim, a former Master Gunsmith at Colt's Custom Gun Shop in Hartford, CT. and myself a N/C programmer and machinist would have no problems doing the Shorty. Already having an extra barrel and end cap on hand, Jim then ordered a barrel shroud and gave it to me. I took the shroud to work and cut four inches from each end on a wire EDM. Since the shroud is tapered, I had it welded all around with AMS spec type weld. With the rear part overlapping about 1/4 inch to the front part it looked like a barrel extension for a MAC 10! Next I taped up the threads and sand blasted it for parkerizing.

Meanwhile, Jim had cut the barrel down eight inches. With the shroud and end cap installed, the total length was only ten inches. The "Beast" was born.

The following Saturday we headed for the range at The Metacon Gun Club of Simsbury, CT. It was brutally cold that day but we had to try out the Beast.

We loaded the belts with Egyptian and Yugoslavian 8mm and fired her up. Club members present at Metacon stood in total disbelief. The cyclic rate reached about 1500 RPM and the concussion was like that of a .50 caliber, and with this was a flash that would keep your beard off. Forget about sights, you can't use them. After firing just two belts the barrel had become red hot. I warmed my hands over the barrel shroud like a machinist on strike would do over a burning 55 gallon drum.

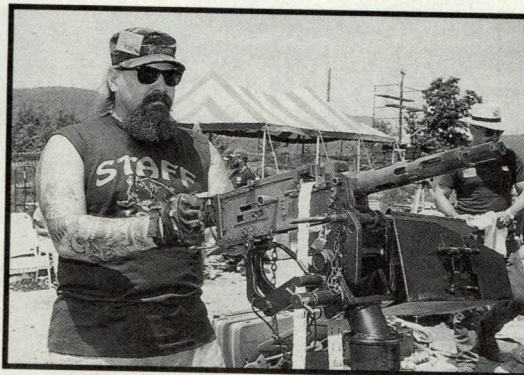
Later, at the June 93 North Country Shoot, Jim impressed the crowd with the ANM2 Shorty, blasting a ball of fire up to three feet from the muzzle.

Jim himself also drew a crowd with his display of an M60E3 tattooed across his back.

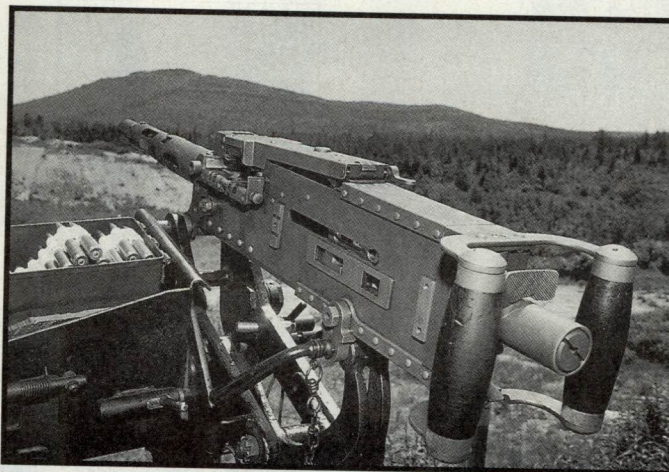
Anyone who fires "The Beast" will become an instant follower of the cult of exotic short belt-feds.

Life is short...get a beltfed!!

The Beastmasters,  
Angelo and Jim



Jim Heffler firing "The Beast."



Unlike other belt-feds, the ANM2 Shorty can be cased and stored easily.



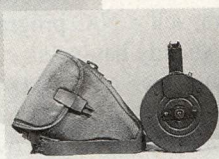
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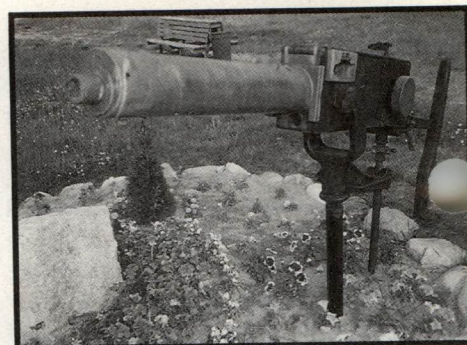
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The best kept secret of Stratford Hollow is the Vicker's Maxim 37mm "Pom Pom" at the Stratford Common. Photo by Mrs. Jim Ballou.

Sigh. I guess I'm just a hopeless romantic when I hear such devotion. I did ask Jim if he didn't think this was going a little too far to get his picture on the cover of MGN, but he said he didn't think so. (Vida didn't put it on the cover this time.)

*On a sadder note, we lost a good friend in the Class 3 world, and a regular at the North Country Shoot. George Packer, a personal friend and shooting partner passed away just before the July shoot. The Shoot was dedicated to his memory, and he will be sorely missed. God speed, George, and keep your powder dry. Our condolences to his family.*

The dealer tents have expanded to house about sixty dealers now, including I.M.A., Jonathan Ciener, LMO, Den's Shop, Dennis Todd, United Defense, among others. If you are interested in setting up tables at the next shoot, talk to Dennis Duphily (508-947-5898). You new guys, remember that gun show receipts are proof of trying to do business, and you might even make some money. Get your feet wet.

From the tank, live firing to the Flamethrower demonstrations by Charlie (Charlie-cue) Hobson, the unique two team "Bake-off" submachine gun pin shoot, and two Mini-guns roaring away, this was a unique experience. All in all another enjoyable weekend at the North Country Shoot.

The line staff, as usual, did a superb job of making sure there was a safe, sober, shoot. The emphasis at the NCS is on safety, with hearing and sight protection required. (Thanks go to Dave Wilson as organizer, a driving force in the club, and to his wife Cindy holding back the tide at the front gate.)

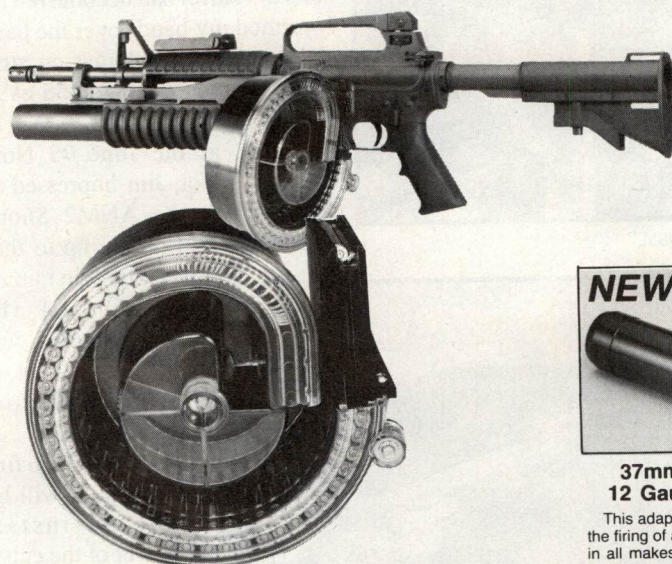
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Machine Gun News - September 1993

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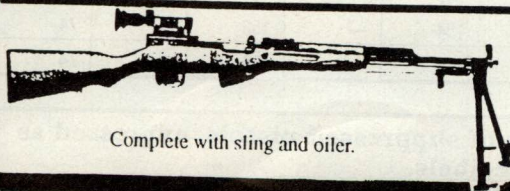
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# The Helical Free Flow Suppressor A New Approach from the Aerospace Industry

by ALAN PAULSON

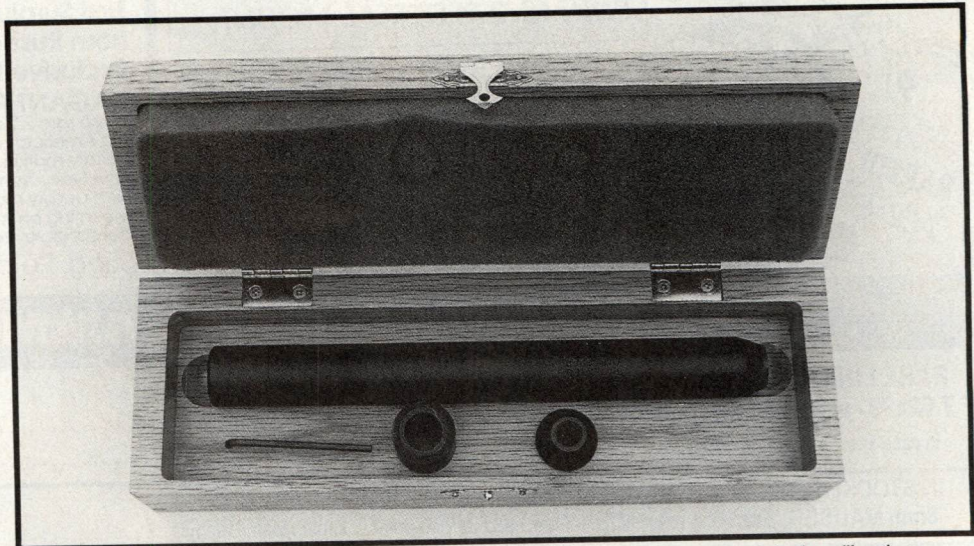
The suppressor industry has a new player. Gregory S. Latka, who is general manager of an aerospace company, has entered the arena of suppressor design with a unique and promising approach to sound suppression, which he calls the helical free flow suppressor. This article will evaluate the first commercial offering based on Latka's patent: a .22 rimfire suppressor. This suppressor has a small diameter, permitting the use of iron sights on a host of rifles and pistols that have not been practical to suppress until now.

Greg Latka is a second-generation engineer. His father worked on the Manhattan Project during World War II and started the family business in 1950. The company began making hose fittings for a wide variety of military and civilian applications, and then began to specialize in high-tech projects for aerospace applications, large weapons systems, and the nuclear Navy. Greg joined the company in 1968 as an entry-level laborer at the age of 16 and worked his way up, until he now runs the company with his older brother. During that time, the Latka organization has worked on an impressive list of projects.

The Latkas have produced components for jet fighters and bombers including the F111, F4, F14, F15, F16, F18 and the B1 bomber. They've worked on such military helicopters as the CH-47 Chinook, AH-64 Apache, the Sikorsky Blackhawk, and the Cobra gunship. They've also contributed to ground systems including the M1A1 Abrams tank, the Bradley Fighting Vehicle, the M60 tank and the M109 howitzer. Other military projects include Sparten Electronics Sonobuoys, components for the Tomahawk Cruise Missile, level one components for nuclear submarines, the Patriot Missile, and more. They've also contributed to the NASA's Gemini and Apollo projects, as well as the Space Shuttle. All Boeing wide-bodied commercial airliners incorporate their products, as well. Clearly, the Latka organization has a demonstrated track record of producing high-tech products for the most demanding applications. While the Latka name is a new one in suppressor design, it is obvious that Latka is no shade-tree wannabee.

## Design

I asked Greg Latka how his helical free



Latka's suppressor came in a fitted oak case with two extra mounts and an allen wrench for installing the suppressor on the Calico M-100P pistol.

**Table 1. Sound signatures in decibels of suppressed and unsuppressed pistols.**

Pistol	Suppressor	Federal High Velocity	Hansen Standard Velocity	Winchester Subsonic	RWS Subsonic	Eley Subsonic	Temp. (degrees F)
Walther TPH	None	158	156	155	156	155	76
Walther TPH	Latka HFFS	132	127	126	125	125	76
Walther TPH	None	157	156	156	—	—	84
Walther TPH	JRC LDES (recharged every 6 rounds)	126	124	123	—	—	84
Walther TPH	None	160	158	—	157	—	64
Walther TPH	JRC Navy (recharged every 6 rounds)	123	119	—	116	—	64
Walther TPH	None	159	157	—	157	—	82
Walther TPH	AWC Warp 3 (recharged every 3 rounds)	125	124	—	122	—	82
TEC-22	None	158	156	—	155	155	75
TEC-22	Latka HFFS	133	130	—	128	128	75
Ruger MK II	None	156	154	—	153	—	74
Ruger MK II	AWC Amphibian	123	119	—	114	—	74

**Table 2. Net sound reductions of suppressed pistols, expressed as decibels.**

Pistol	Suppressor	Federal High Velocity	Hansen Standard Velocity	Winchester Subsonic	RWS Subsonic	Eley Subsonic	Temp. (degrees F)
Walther TPH	Latka HFFS	25	26	27	28	27	76
Walther TPH	JRC LDES (recharged every 6 rounds)	31	32	33	—	—	84
Walther TPH	JRC Navy (recharged every 6 rounds)	37	39	—	41	—	64
Walther TPH	AWC Warp 3 (recharged every 3 rounds)	34	33	—	35	—	82
TEC-22	Latka HFFS	25	26	27	28	27	75
Ruger MK II	AWC Amphibian	33	35	—	39	—	74



flow suppressor differs from previous designs. "The traditional approach to building a suppressor," Latka said, "has been a baffle design, a mesh design, or a variation of either. The newer designs use a liquid to cooling [of the combustion gases]. My suppressors are designed to be used dry.

"All previous concepts use a theme of containment. The gases expand and then contract over and over and over again. The problem with these designs is that if the tube is 8 inches long, then the gases have only an 8-inch distance to travel.

"With my design using the free flow helical baffle," Latka continued, "a substantial portion of the gases go into a spiralling movement around the outside of the baffles, until they have expelled their energy. By stacking the baffles and sheering off the gases as they pass, the gas path becomes about 40 inches in our .22 rimfire suppressor. The suppressor design can be tuned for particular cartridges by carefully calculating groove widths, angles of attack, and baffle length."

Here's how Latka's helical free flow suppressor works. As the bullet just emerges from the barrel and enters the suppressor, the combustion gases expand into the expansion chamber and start to travel through the diffuser. Meanwhile, a small portion of the gases travel around the bullet and start down the center hole of the suppressor in front of the bullet.

Latka's patented conical baffles incorporate a helical groove machined into their outer edge, which forms a spiral passage between the baffles and the inner surface of the suppressor tube. As the bullet enters the helical baffles, the gases deflected by the diffuser start to spiral around the outside of the baffles, while the rest of the gases follow the bullet down the central passage of the suppressor. Each baffle shears off more gas from the main gas stream behind the bullet.

When the bullet reaches the end of the baffle stack, a deflector captures a portion of the main gas jet following the bullet and — at least in theory — redirects these gases back down the outer helix toward the gases spiralling forward between the tube and the baffle stack. This produces pressure fronts traveling in opposite directions in the outer helix. When opposing pressure waves meet head-on, one of two things will happen. If the waves have the same amount of energy, they will cancel each other out. If they have similar energy content, the lesser wave will diminish the amount of energy in the more powerful wave. In practice, I do not believe that this counterflow (continues)

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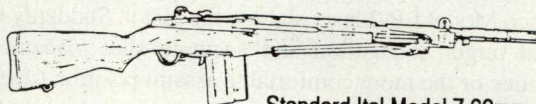
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# Calico M-100P Pistol



The helical free flow suppressor mounted on a Calico M-100P pistol.

The Calico M-100P pistol certainly has an innovative design. Constructed largely with polymers, the pistol features a barrel length of 6 inches (152 mm), and an overall length of 17.9 inches (455 mm). The M-100P weighs 3.06 pounds (1.39 kg) empty and 3.75 pounds (1.70 kg) with a fully loaded magazine. The pistol's best feature is its detachable helical-feed, 100-round magazine. While the pistol comes with a black magazine, with two windows on top

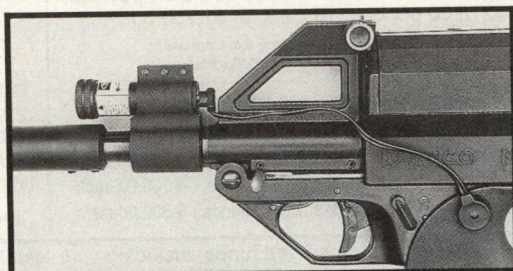
to crudely monitor the number of remaining rounds, a clear magazine is also available which allows constant monitoring of the magazine contents.

The loading procedure of the Calico magazine is worth mentioning, since this is the heart of the pistol and since the procedure is not entirely intuitive. Begin by depressing the twin latches near the rear of the receiver and lift the magazine from the pistol. Now push the button at the rear center of the magazine to release its spring tension for reloading. Begin to insert rounds into the feed lips under the front of the magazine. Spring tension will gradually increase to the point where inserting rounds becomes difficult. Simply push the button at the rear of the magazine to release this tension as necessary (this procedure will be necessary several times when loading 100 rounds). When the magazine is full, release the spring tension a final time. Now crank the spring 15 revolutions to tension the magazine for proper feeding.

While the pistol's magazine is interesting, the M-100P has two serious flaws: substantial weight and almost worthless sights. For my eyesight, the sights are a fatal flaw, so I never took the Calico M-100P pistol seriously until Latka designed a proprietary mount to mate the Tasco Model LP-2 laser sight to the pistol. Suddenly the Calico became capable of rapid target acquisition and accurate shot placement. Whether firing from a Weaver stance or the more comfortable assault position (due to the Calico's weight), the M-100P could rapidly hit a series of pop cans as long as the laser was not employed in full daylight when the laser dot is not visible. Combined with Latka's helical free flow suppressor, the laser-sighted Calico proved to be a great tool for eliminating rats and snakes in the barn. The laser also worked well outdoors around dusk, which is a good time to hunt rats at the local dump. Finally, the laser-sighted, suppressed Calico might make a viable home-defense weapon for the untrained individual who doesn't tolerate a lot of noise and recoil.

in the outer spiral significantly improves suppressor performance. The key is how effectively the suppressor diverts a portion of the combustion gases into the outer spiral as soon as the gases enter the suppressor.

As the bullet passes through the deflec-



Latka's proprietary laser mount transforms the Calico M-100P pistol from a technical curiosity with almost unusable open sights, into an effective system.

tor, it enters a chamber between the deflector and the front end cap. A machined surface inside the front end cap captures a final portion of the main gas jet and reflects it backward. The bullet exits the suppressor. The gases spiralling through the outer helix do not exit the suppressor until "long after"

the bullet has left. This delay is especially noticeable in Latka's suppressor for the 5.56x45 mm cartridge. The suppressor produces a slight puff of smoke a second or so after the weapon has fired, when it appears that the gases following the bullet helix finally exit the system.

Latka's .22 muzzle suppressor is 7.875 inches (200 mm) long, 0.875 inch (22 mm) in diameter, and weighs 4.25 ounces (120 grams). The tube is 2024 aluminum and the 13 baffles are machined from a proprietary aluminum that stands up to the stress imposed by hot combustion gases. All aluminum components are finished with matte black anodizing. The diffuser at the rear of the suppressor is 303 stainless steel, and 304 stainless steel is used for the rear spacer that both locks the baffle stack in place and reinforces the expansion chamber. Flawless knurling on the shoulder of the rear end cap both facilitates removing the mount and adds an attractive counterpoint to the classy appearance of this suppressor. Knurling on a complex surface also hints at Latka's technical prowess in the machine shop.

## Maintenance

The helical free flow suppressor should be cleaned every 500 to 1,000 rounds. Remove the rear end cap and immerse the unit overnight in any solvent that does not react with aluminum (therefore, avoid Hoppe's No. 9). After soaking, shake the can thoroughly to dislodge any loose particles and drain. Flush with very hot soapy water, shake vigorously, and drain. Rinse with very hot water and then blow the suppressor dry. Apply a high-temperature antiseize compound (colloidal molybdenum or copper compounds work best) to the threads of the rear end cap and screw the mount back into the tube.

## Testing Procedures

Sound signatures were measured using a Bruel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on A weighting) with a B&K Type 4136 1/4-inch condenser microphone. The microphone was placed 1.00 meter away from the front of the suppressor or muzzle, at a 90 degree angle from the bullet flight path. The meter was calibrated just before and just after the tests with a B&K 4230 calibrator. No instrument drift was observed. The ambient temperature during each test is listed in the accompanying tables. Six kinds of long rifle ammunition were tested: Federal high velocity, Hansen standard velocity target, RWS subsonic, Winchester subsonic, Baikal JUNIOR Steel subsonic, Eley subsonic. Rifles were also tested with Federal



CB Longs. Velocities were measured using a P.A.C.T. MKIII timer/chrono-graph with MKV skyscreens set 24.0 inches apart and the start screen 8.0 feet from the muzzle.

I tested the helical free flow suppressor on the Ruger 77/22 and the Walther TPH, which I traditionally use as the test firearms for evaluating .22 caliber muzzle cans. I also tested the helical free flow suppressor on the Intratec TEC-22 pistol and test fired the suppressor on the Calico M-100P pistol.

#### Suppressor Performance

Pistol and rifle sound signatures are listed in Tables 1 and 3, respectively. Net sound reductions are shown in Tables 2 and 4. Selected projectile velocities are compared in Table 5.

Latka's helical free flow suppressor demonstrated a net sound reduction of 25 decibels with high velocity ammunition in the Walther TPH pistol, while the can produced a 19 dB reduction on the Ruger 77/22 rifle. These data suggest that the suppressor works best with higher velocity gases, so the helical free flow design should prove to be especially effective when applied to centerfire applications like the 5.56x45, the 7.62x51, and the .50 caliber BMG.

Performance of Latka's suppressor on the TPH did not match the performance of the AWC Warp 3 or the JR Customs suppressors. But then Latka's can is designed to be shot DRY rather than WET, so one would not expect the HFFS to perform as well. It is relevant to point out that the helical free flow suppressor on the TPH was just as quiet as the legendary Dater RST suppressed Ruger Mark II and the silenced OSS HD Military with high velocity ammunition, so the HFFS is quiet enough for even tactical applications. The HFFS permits completely unobstructed use of the TPH sights, which is a real treat. And, best of all, the shooter doesn't get peppered with particulates and nasty coolants that plague the shooters of "special environment" suppressors. There is less back pressure and no gunk to be blown back into the shooter's face, arms and torso. While the HFFS may be too long for covert carry, the suppressor's amazingly light weight and small diameter make the can seem to disappear when shooting. At last there is a way to have good, CLEAN fun shooting a suppressed TPH.

In spite of the suppressor's significantly reduced diameter, Latka's HFFS produced net sound reduction that was within 1 or 2 dB of the AWC Archangel when mounted on the Ruger 77/22. Frankly, this surprised me. The unusually small diameter of

## Intratec TEC-22 Pistol



The helical free flow suppressor mounted on the Intratec TEC-22 pistol, which comes from the factory with a threaded barrel and thread protector.

The Intratec TEC-22 is a largely polymer pistol. It features a 4 inch (102 mm) barrel, an overall length of 11.2 inches (284 mm), and a 30-round Ruger-compatible magazine. The TEC-22 weighs 31.2 ounces (885 grams) with an empty magazine. The polymer pistol grip includes a storage compartment, and the pistol handles surprisingly well in spite of the forward weight provided by a loaded magazine.

The worst feature of the TEC-22 is the very stiff ambidextrous safety. The shooter must shift the grip of the firing hand in order to move the safety from S to F. The nonfiring hand must be used to move the safety to the SAFE position. Another idiosyncrasy is that care must be taken to rock the magazine forward after insertion and latching to ensure that the magazine's feed lips align properly with the bolt. This motion quickly becomes second nature.

The Intratec's best features are its large-capacity magazine and the fact that the barrel comes threaded from the factory with a knurled thread protector, making the TEC-22 a natural candidate for adding a muzzle can. The suppressed TEC-22 provides substantially more velocity than an integrally suppressed Ruger pistol (since the Ruger barrel is ported), which translates into much more hitting power when shooting reactive targets like falling plates, or when using the pistol for animal control. The suppressed TEC-22 is capable of delivering 2 inch groups at 25 yards.

Latka's .22 suppressor gives it only 76 percent of the volume of the same can built with the traditional 1.0 inch tubing. That's a lot less room to make things happen. The HFFS is 0.85 inch (22 mm) longer than the Archangel, but it still has only 86 percent of the Archangel's gross volume. So performing within a decibel or two of the Archangel can only be described as impressive performance. Furthermore, many adult shooters cannot detect a 1 dB difference in sup-

pressed sound signatures.

The HFFS on the TEC-22 was much louder than the AWC Amphibian with its integral suppressor, but Table 5 shows that the suppressed TEC-22 delivers much more velocity (and therefore hitting power) than the Amphibian. For those applications requiring the placement of maximum energy on target using a suppressed .22 pistol, use of the helical free flow suppressor should be considered. I would like

(continues)

**Table 3. Sound signatures in decibels of suppressed and unsuppressed rifles.**

Rifle	Suppressor	Federal High Velocity LR	Hansen Standard Velocity LR	Baikal JS Subsonic LR	Eley Subsonic LR	RWS Subsonic LR	Federal CB Longs	Temp. (degrees F)
Ruger 77/22	None	141	137	138	136	—	131	82
Ruger 77/22	Latka HFFS	122	119	115	114	—	109	82
Ruger 77/22	AWC Archangel	120	120	114	113	—	104	82
Ruger 77/22	None	142	139	—	—	138*	131	84
Ruger 77/22	JRC LDES (dry)	128	125	—	—	123*	113	84
Ruger 77/22	None	141	139	—	—	137	131	64
Ruger 77/22	JRC Navy (dry)	117	114	—	—	113	106	64
Ruger 77/22	AWC Warp 3 (dry)	119	117	—	—	117	108	64

\* Winchester Subsonic LR



# What's New

by CHRIS A. CHOAT

## AR-15 MAGAZINE ADAPTER FOR THE GALIL



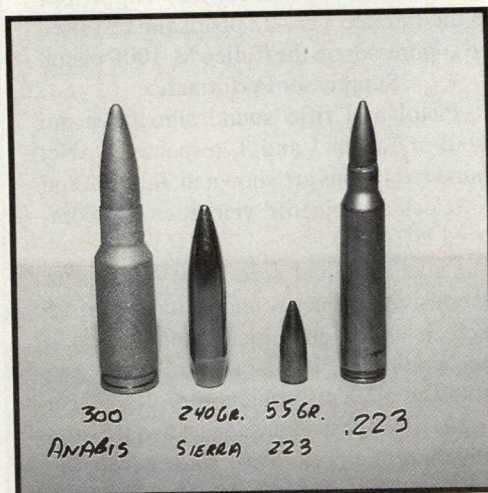
Lee Hudson at M.A.D.I. has just introduced a new magazine adapter to allow the use of AR-15 magazines in the Galil series of rifles. The new adapter is designed to operate efficiently with all capacities of the AR-15 magazines including the MWG 90-round drum. The adapter attaches and removes instantly to ensure ease of operation with either AR-15 or the original Galil magazines. The adapter is manufactured from precision bar stock and folded sheet metal and is parkerized to match the overall weapon finish. It is also now being tested by the Israeli Military Service. For more information contact M.A.D.I., Dept. MGN, P.O. Box 41324, Phoenix, AZ 85080. Phone: 1-602-581-2484.

Now you can own your very own light armoured personnel carrier. The unique NK-10 Multi-Purpose Tracked Vehicle, imported directly from the Commonwealth of Independent States, is now available for the first time in North America. The NK-10 is a fully amphibious design, derived from the former Soviet MT-LB. The NK-10 is equipped with track-link propelling agents that allow the vehicle to swim over water. The vehicle weighs 11 tons fueled and has a carrying capacity of 3 tons. It can carry a crew of 5 with room for 12 passengers. It is powered by an advanced turbocharged V-8 diesel engine that develops 300 horsepower and allows it to reach speeds of 61.5 km/hr. The versatility of the NK-10's design

renders it well-suited to a wide variety of commercial applications including forestry, agriculture, emergency transport, security and land management. Retail price for the NK-10 is \$90,000.00 FOB, Dallas. For additional information contact Big Bear Arms & Sporting Goods, Inc., Dept. MGN, 2714 Fairmount Street, Dallas, TX 75201. Phone: 1-214-754-0449. Fax: 1-214-871-7061.

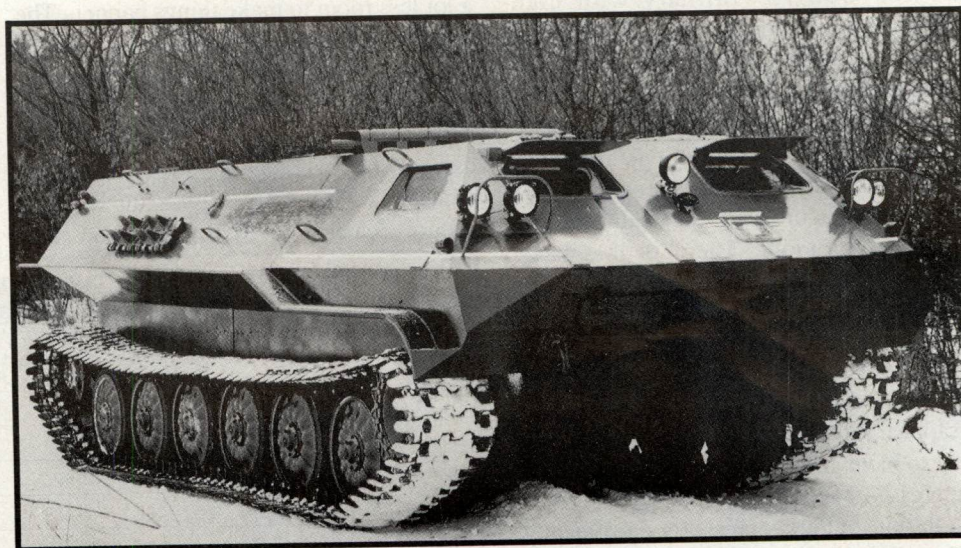
## BGW'S TACTICAL WEAPONS SYSTEMS

Dale Blaylock, the owner of Blaylock's Gun Works has just introduced a new suppressed rifle/ammunition system that promises to be one of the hottest items for military and law enforcement use in some time. Called the ANABIS SERIES, the new ammunition and rifles have been designed to be the ultimate suppressed weapons systems. Available in five calibers, .308, .375, .416, .458 and .500, the ammo is designed to give the maximum foot pounds of energy at subsonic velocities while maintaining sub minute of angle accuracy. The entire series also includes ammunition



loaded to super sonic velocities for times when suppression is not necessary. The weapon is specially designed to shoot this new ammunition at match grade accuracy while being suppressed to a sound of no more than that of a good quality pellet rifle. The action, stainless steel match barrel and integral suppressor are refinished in DuPont black teflon and installed in a McMillian A-2 stock. A special tactical Leupold mil-dot scope, calibrated for the bullet drop of each cartridge, is available to complete the package. Factory ammo and reloading dies are also available. The .308, .375 and .416 cartridges can also be used in reworked automatic weapons such as the M16 and the M14/M21 for those who prefer an automatic action. For more information or to place an order contact Blaylock's Gun Works, Dept. MGN, P.O. Box 1426, Gun Barrel City, TX 75147. Phone: 1-903-887-2655. Fax: 1-903-887-4796.

## ARMoured PERSONNEL CARRIER





**Table 4. Net sound reductions of suppressed rifles, expressed as decibels.**

Rifle	Suppressor	Federal High Velocity LR	Hansen Standard Velocity LR	Baikal JS Subsonic LR	Eley Subsonic LR	RWS Subsonic LR	Federal CB Longs	Temp. (degrees F)
Ruger 77/22	Latka HFFS	19	19	23	22	—	23	82
Ruger 77/22	AWC Archangel	21	17	24	23	—	28	82
Ruger 77/22	JRC LDES (dry)	14	14	—	—	15	18*	84
Ruger 77/22	JRC Navy (dry)	24	25	—	—	24	25	64
Ruger 77/22	AWC Warp 3 (dry)	22	22	—	—	20	18	64

\* Winchester Subsonic LR

**Table 5. Velocities of suppressed and unsuppressed firearms expressed in feet per second, temperature in degrees Fahrenheit, and speed of sound in feet per second.**

Pistol	Suppressor	Federal High Velocity LR	Hansen Standard Velocity LR	RWS subsonic	Temperature	Speed of sound
Ruger MK II	None	1,090	1,043	858	74	1,133
Ruger MK II	AWC Amphibian	873	872	680	74	1,133
TEC-22	Latka HFFS	1,031	953	927*	75	1,134

\* Winchester Subsonic LR

to see Latka's design applied to a better pistol than the TEC-22, however, for serious applications.

One final point does not show up in the data. The helical free flow suppressor seems to produce a somewhat lower peak frequency than many muzzle cans, making the sound signature seem slightly quieter to my ear than the meter reading would sug-

gest. Thus the helical free flow suppressor provides world-class performance while providing such a small diameter that the sights are still fully visible on a Walther TPH or a Rossi 62SA take-down pump rifle.

#### Conclusions

Greg Latka's helical free flow suppressor is a world-class performer. It produces

a sound signature on the Ruger 77/22 that is almost indistinguishable from the AWC Archangel, which has long been a particular favorite of mine. The HFFS is even more effective as a pistol suppressor since it works best with high velocity gases. While not as quiet as a "special environment" can, its lack of messy coolants makes the HFFS much more suitable for sporting applications. The suppressor's unusually small diameter permits mounting a suppressor on a host of rifles and pistols that have not been practical to suppress until now if one wanted to use the firearm's iron sights. Finally, the workmanship is what one would expect from a successful aerospace company.

The helical free flow suppressor should hold great promise for reducing the size and weight of suppressors for centerfire rifle cartridges. We'll evaluate subsequent developments from the fertile mind of Gregory Latka as they become available.

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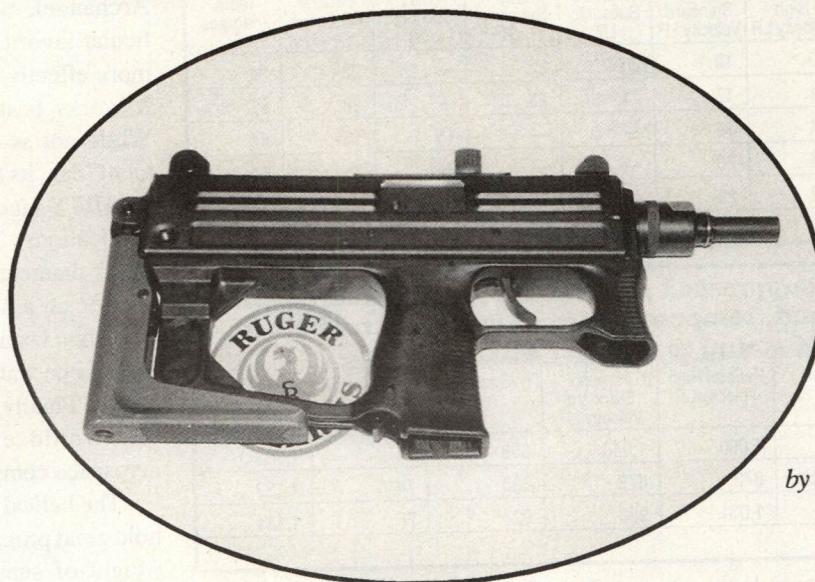
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# RUGER'S MP-9 SUBMACHINE GUN



by ROBERT M. HAUSMAN

**A** new closed-bolt 9mm Luger machine pistol designed by William B. Ruger Sr. in collaboration with a foremost international machine gun designer has been developed by Sturm, Ruger & Co. Existing only in prototype form at present, the MP-9 made its debut in the cloak and dagger atmosphere of the 5th annual Contingency & Operational Procurement Exhibition (COPEX) held 25-26 May 1993 in Baltimore, Maryland.

A private event, COPEX draws a crowd primarily composed of top level intelligence agency types. Gaining entry is difficult and the taking of photographs is allowed only under carefully controlled conditions. No photographs of people are permitted. However, MGN readers are provided herein with what are believed to be the first photos of the MP-9.

## MP-9 BACKGROUND

Sturm, Ruger & Co. at presstime has

made no official announcement of the MP-9's introduction to the marketplace nor has it released any official photos. A request for an interview on the product was denied by Ruger headquarters. The author believes this is because the design exists only in prototype form at present and is being shown to government agency officials only (such as would be present at the COPEX show). It is made available for testing by these same officials to gauge how much interest there is in the design. Should there be enough attention, it is quite possible the design will go into production soon.

Apparently the MP-9 is designed to compete in the marketplace mainly with the Uzi variants as it is designed in part by that firm's namesake - a fact which Ruger is not keeping secret. It is of comparable size and caliber to the Uzi variants and fires at a similar rate (the Uzi being 550 - 600 r.p.m. vs. the MP-9's 600 r.p.m.). The Ruger

product offers the added tactical advantage of potentially greater first shot accuracy as it fires from a closed-bolt as opposed to an open bolt configuration which some shooters complain is less accurate on the first round.

While a Ruger representative present at COPEX would not confirm or deny if the MP-9 is planned to be marketed as an Uzi alternative, the author was present during recent informal testing of the MP-9 by a U.S. federal government agency. This same agency is currently using the Uzi subgun. The author had the opportunity to test fire the MP-9 during these government trials and found it accurate and highly controllable.

## MP-9 SPECIFICATIONS

The prototype, which was built at the firm's Prescott, Arizona production facility, has a polished and blued steel alloy upper receiver and a natural finish, fiberglass



The MP-9 stripped into its four major parts component assemblies.



The MP-9 with stock extended still makes for a compact unit with a 21-9/10 inch overall length.





Detail of the MP-9's receiver showing its robust and modern styling. The selector is of the three-stage type offering choice of semi, full-auto and safe. There is no 2 or 3 round burst setting.

reinforced molded Zytel lower receiver. The weapon has select fire capabilities and sports an easily removable 6-8/10 inch (173mm) heat treated, chrome-moly steel barrel with a right hand twist six groove, one in ten (255mm) rifling. It will be offered with a 32 round detachable, double column box magazine.

The magazine seen in accompanying illustrations is not of Ruger manufacture as it was produced by a European arms maker. Should the MP-9 go into full production, Ruger will design and build a magazine of its own.

The safety consists of a handily located sliding button on the receiver with a separate trigger actuated disconnect. The sights were found to allow rapid target acquisition. They consist of a dual aperture rear peep sight adjustable for windage and a protected post front sight adjustable for elevation. The receiver top has scope mount adaptor bases front and rear of the dovetail Weaver type.

Furnished with a telescoping, folding metal stock the arm's overall length is 14-8/10 inches (376mm) with stock folded and 21-9/10 inches (556mm) with stock extended. Length of pull is 15-9/10 inches (404mm), drop of comb is 1-7/10 inches (43mm), and drop at heel 3-1/2 inches (89mm). Unloaded the MP-9 weighs only 5.94 lbs. (2.7 kg.). While a blowback, hammer fired arm, the weapons' main selling point will be the greater accuracy potential of its closed bolt configuration as opposed to striker-fired subguns.

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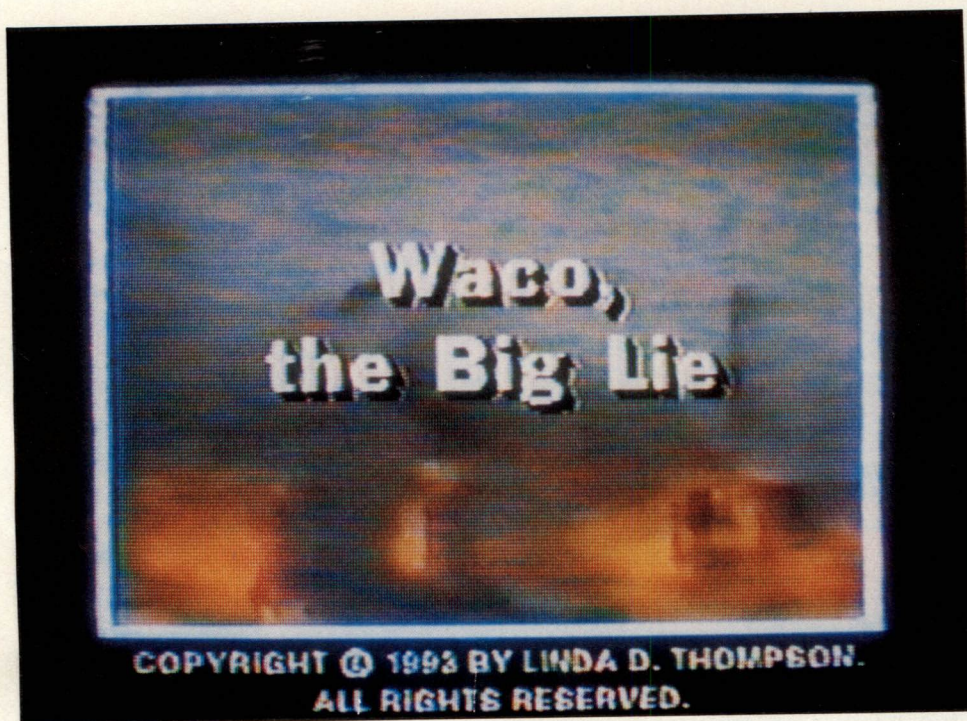
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## Video Review

by KEN CARTER

In the minds of many, the fiery tragedy in Waco, Texas, was the result of the self-fulfilled, apocalyptic vision of a mad prophet named David Koresh. In one made-for-TV movie and at least three quickie books, all begun before the drama had finished playing out, Koresh and the Branch Davidians have been portrayed as a dangerous group of armed religious zealots who ambushed federal officers attempting to serve a search warrant, then committed mass suicide rather than surrender to authorities.

In *Waco - The Big Lie*, Linda Thompson of The American Justice Federation paints a different picture. Using dramatic video footage taken during the assault upon the Mount Carmel Center, and interspersing it with prior interviews with Koresh and others as well as newspaper accounts and government documents, Thompson presents a plausible argument that the Davidians were unjustly attacked, and ultimately murdered, by federal agents.

The tape sketches a brief history of the Branch Davidians, an offshoot of the

Seventh Day Adventists, and concludes that, by and large, the group has a history of peaceful coexistence with its Central Texas neighbors spanning more than half a century. The lone exception was a bizarre episode in 1987 when a rival, George Roden - now confined to an insane asylum - dug up a casket containing the body of a woman and challenged David Koresh to raise her from the dead. When Koresh, *nee* Vernon Howell, attempted to get photographic evidence for the McLennan County sheriff's office, a brief shootout erupted. Roden brought charges, but Koresh was acquitted.

Herself an attorney, Thompson touches upon numerous flaws in the affidavit leading to issuance of the search warrant for alleged weapons violations, and suggests that, had it not been for ignorance of firearms law on the parts of both ATF investigator Davy Aguilera and Waco federal magistrate Dennis Green, the warrant would never have been granted.

Thompson also analyzes the gripping video scenes as they unfold, adding her own subjective interpretation of what is being viewed. Here, the viewer needs to keep in mind that much of what is being said is conjecture, since, in many cases, tape quality is poor, having been shot through telephoto lenses from the periphery compound some two miles away, and, others, none but those who were actual participants could be certain what really went on, or what their motives were.

At times, I found myself disagreeing with her findings. In one instance, in which she states that an ATF agent has an accidental discharge and wounds himself in the leg while climbing a ladder, I had been privy to

Potentially the most damning evidence against federal agents is demonstrated by this sequence of photographs taken from video.

(1) In first frame, tracked vehicle is shown at its forward-most position, with front of vehicle obscured by building; note alignment of tank with corner of building in background and truck cab in foreground.

(2) Vehicle has withdrawn approximately three feet; flame apparently projected by turret-mounted device is just coming into view.

(3) Tank has backed out two more feet; flame is now clearly visible. (Sequence is clearer on video than in still photos.)





the original, unedited video, which clearly showed (at least to my satisfaction) that he merely slipped from the rung; he immediately raised his foot again and continued climbing. (He is later seen crawling through a window...unlikely if he had indeed been shot.)

There are a few other instances in which our interpretations differ, but that is not to say that there aren't other times in which her assessment is obviously correct. Ms. Thompson is, after all, a lawyer, and she sets about proving her case in the same manner she would no doubt use in making a presentation to a jury. After listening, and watching, it is up to us, the "jurors," to make up our minds as to what really happened.

There are times when the videotape speaks for itself, as in the sequence from which three photos included with this article were taken. The tape purports to show a tracked vehicle (probably a tank retriever) crushing through a wall of the Mount Carmel Center, and, as it withdraws, it appears to be spewing flame from the muzzle of some type of device attached to the turret. Twice, the front of the vehicle is shown entering the building, and both times, as it pulls back, the tongue of flame remains clearly visible for several seconds.

What is the meaning of these pictures? And the FBI, in fact, lie about who was really responsible for the blaze that claimed the lives of the scores of men, women and small children inside Mount Carmel? In claiming that Koresh and his followers torched the compound in a last, defiant act of self-immolation, did agents assume that they were safe from the prying eyes of the media? And did they believe that confirma-



ATF agents pour heavy fire into upper windows with handguns and what appear to be M16s and MP5s. Neither the vehicles being used for cover nor soft ground behind agents show any evidence of return fire. (Vehicles were later destroyed by FBI tanks.)

tion from an "impartial" arson investigator...whose wife works as a secretary in the Houston ATF office...would cover their tracks?

The tape raises serious questions of heavy-handedness, extremely poor judgment, and even criminal behavior on the parts of both the Bureau of Alcohol, Tobacco and Firearms and the Federal Bureau of Investigation, and points to the need for a complete and unbiased investigation of the entire affair, conducted by an independent special prosecutor. How can the American people expect fair handling of the matter by Janet Reno and her Justice Department when they were involved up to their necks in the decisions that culminated in the

deaths of the Branch Davidians? As for the agencies themselves, they began toying with the truth before the sound of the first shots had died down, and continue doing so to this day.

*Waco - The Big Lie* is professionally edited and narrated, and despite a few glitches here and there, is well worth the money. It is something that everyone in America needs to see. Why not get two: one for yourself, and another for a friend...or your congressman?

To obtain a copy, send a \$20.00 check or money order (no phone orders, please) to: American Justice Federation, Dept MGN, 3850 S. Emerson Ave., Suite E, Indianapolis, IN 46203

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# GLOCK MACHINE PISTOL SELECT-FIRE CONVERSION FROM LAKESIDE ARMS

By CHRIS A. CHOAT

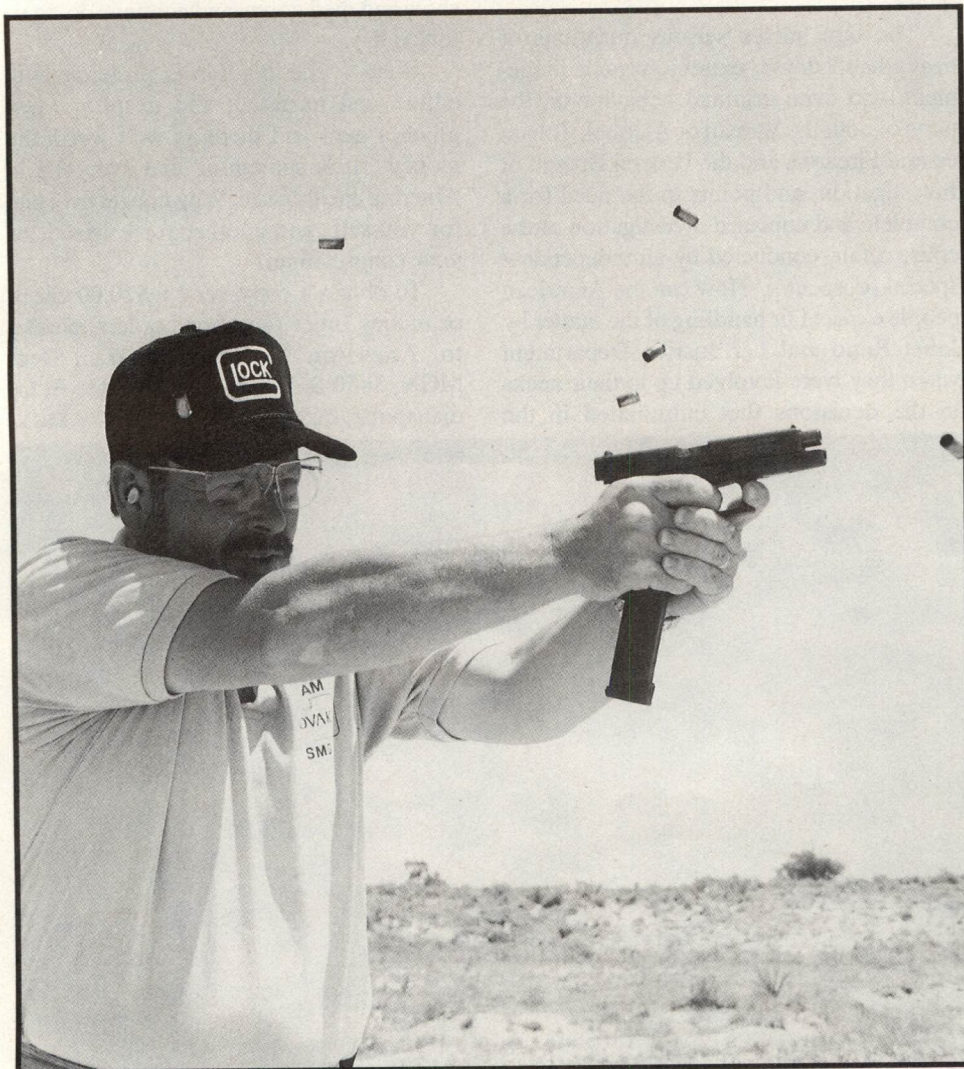
I remember the first time I picked up a Glock handgun. My first thought was, "WHAT A PIECE OF JUNK." After firing only one magazine through it, I changed my mind and have owned a Glock, in various calibers, ever since. My first Glock was purchased back when the company was first emerging and trying to gain a foothold in a long established U.S. handgun market. They were competing against the "big boys" of handgun manufacturing.

Now they are one of the "big boys."

Glock seems to be gaining in popularity daily and in the law enforcement circles that I travel in it is certainly the weapon of choice. Glock started out with one model, the 9mm Model 17, followed quickly by the compact version of the same gun, the Model 19. Since that time they have introduced several other calibers with compact versions of most. One version that is rarely seen is the Model 18, a select-fire clone of

the Model 17 in 9mm Parabellum (see MGN March 1993). The Model 18 has a slide mounted selector that allows semi or full-auto fire and usually comes equipped with an extended 33 round magazine. Not many of these handguns are in the U.S. and even fewer are in private hands.

Now, a Maryland Class II manufacturer is making it possible to own not only a select-fire Glock handgun but one in the caliber of your choice! As the guns are



The selector is frame mounted and has two positions. The upper position is semi-auto and the lower is full-auto. The selector is shown in the full-auto position. The semi position is marked by one red dot and the full-auto position by a pair of red dots.

## Glock 17 Select-Fire Specifications

Caliber.....	9mm
Operation.....	Select fire by means of a selector
Feed Device.....	Box magazine. 33 or 19 round
Safety.....	Trigger activated
Sights.....	Standard Glock non-adjustable
Sights.....	Night sights optional.
Weight.....	2lbs. 7oz. loaded with 33 rounds
Cyclic rate.....	1106 R.P.M.



manufactured after 1986 they are all 'post samples. The man's name is Jim Reichard and he owns Lakeside Firearms in Leonardtown, Maryland.

The gun that Jim sent me to test is a converted Model 17, which is basically just the Model 18. The gun features a slide mounted selector, also like the 18, and comes with the 33 round magazine. These are Glock manufactured magazines that actually hold 31 rounds but are equipped with

Glock's + 2 extension which allows them to hold 33 rounds.

Outwardly the converted Glock mimics the Model 18. The slide mounted selector has two positions. At the 10 o'clock position, marked by one red dot, the conversion will fire semi-auto. Placing the selector in the 8 o'clock position, marked by a pair of red dots, the gun will fire full-auto. The selector is a disk with a lever mounted to its face. The lever on my test gun was some-

what over sized and tended to bite the base of the shooters' thumb when it was in the full-auto position. The problem has been corrected by changing the profile of the lever and all guns now will be produced with the smaller lever.

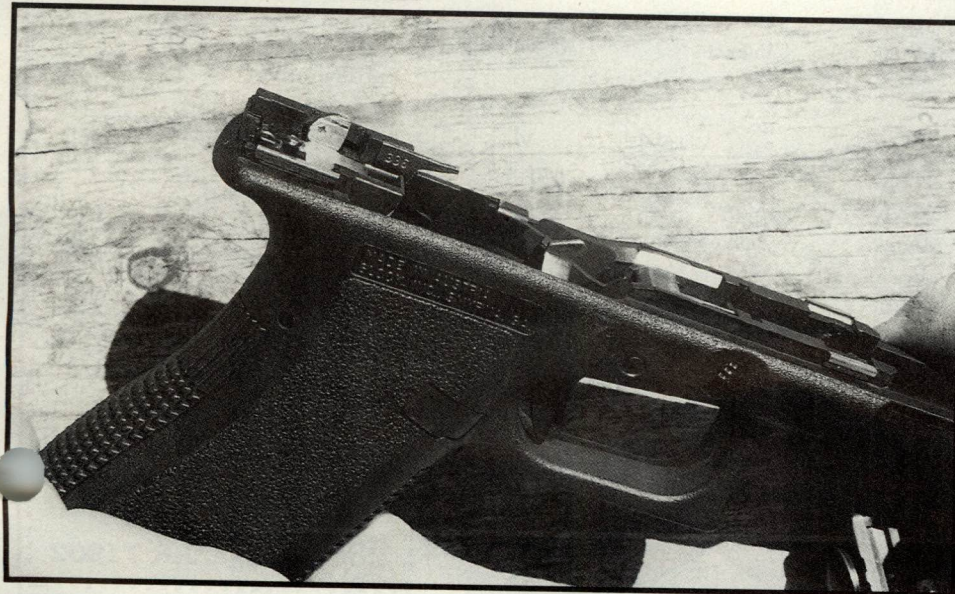
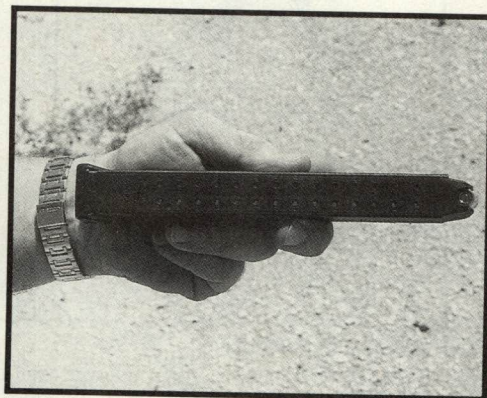
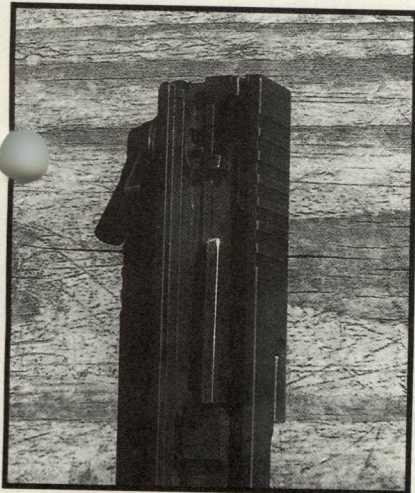
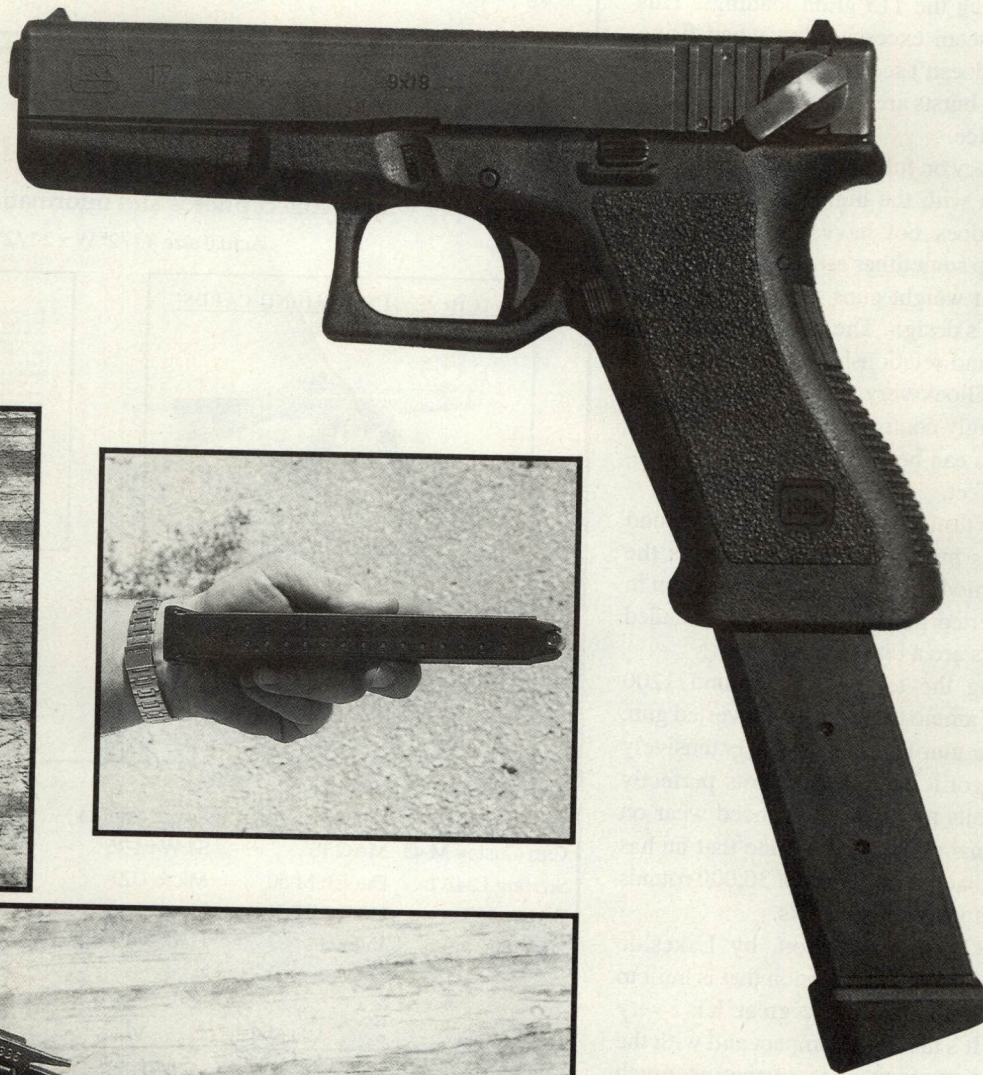
On the inside, the function of the conversion works much the same as the factory Model 18 except that dimensions of the two guns differ slightly. The selector retaining detents are also placed differently than the

Captions read clockwise.

The selector rotates a triangle shaped protrusion down into position to contact the full-auto sear.

Shown here is a Glock 33 round magazine. The magazine has cartridge inspection windows for each round and are numbered to "31." The 33 round magazines are equipped with Glock's "+ 2" extensions and therefore hold 33 rounds.

The sear is added to the trigger bar and is cammed forward each time the slide goes fully shut.



#### Model 18's.

In testing the conversion, I used several types of 9mm ammo. This included Winchester USA 115 grain, Federal 147 grain sub-sonic Hydra-Shok, Black Hills loadings in 115, 124 and 147 grain, CCI Blazer in both 115 and 147 grain as well as some Mag-Tec 115 grain loads. Bullet types included FMJ, hollow point and truncated cone. The converted gun digested all the ammo with no problems. The gun will simply shoot anything that

(continues)



you put into it. In fact, the only times that the gun didn't function perfectly was when a couple of my (right handed) fellow testers fired the gun (left handed). It was found that this was not related to the gun but to the limp wrists of the testers. When they changed to their right hands the gun again functioned flawlessly.

The cyclic rate of the gun was timed with my PACT MARK III Championship timer w/rate-of-fire option installed. Rates of fire naturally vary with ammunition used but the gun averaged 1106 rounds per minute using the 115 grain loadings. This rate may seem excessive but when firing the gun it doesn't seem that fast. Three and four round bursts are easy to manage with a little practice.

Accuracy on full-auto proved to be very good even with the high rate of fire. The gun just does not have the pronounced muzzle flip sometimes associated with fast-firing light weight guns. I attribute this to the Glock's design. The grip angle and the bore-to-hand relationship makes firing the full-auto Glock very controllable. In fact, its amazingly controllable. Entire 33 round magazines can be kept on a man-sized target at 30 feet.

While testing I used only the 33 round magazines but any magazine that fits the standard model will also fit and function in the converted gun. Naturally the extended magazines are a lot more fun.

During the test, I shot around 1200 rounds of ammo through the converted gun. The same gun had been fired extensively before I got it and it still shoots perfectly and exhibits no sign of advanced wear on any internal parts. Jim told me that he has one gun that has in excess of 30,000 rounds through it with no ill effects.

The Glock conversion, by Lakeside Arms, is a quality conversion that is built to last and best of all it works great. It is a very fun gun. It's nice and compact and with the 33 round magazines it carries as much ammo as a full sized submachine gun. You may not be able to buy an original Model 18 but this conversion is the next best thing. Oh, one more thing, Jim can also furnish the conversion in Glock's of other calibers! Maybe a Glock 21 in .45 acp with suppressor and laser sighting system. Shades of SOCOM! To be continued.... MGN

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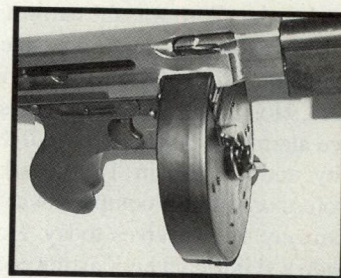
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# SECURITY AND ALARM SYSTEMS

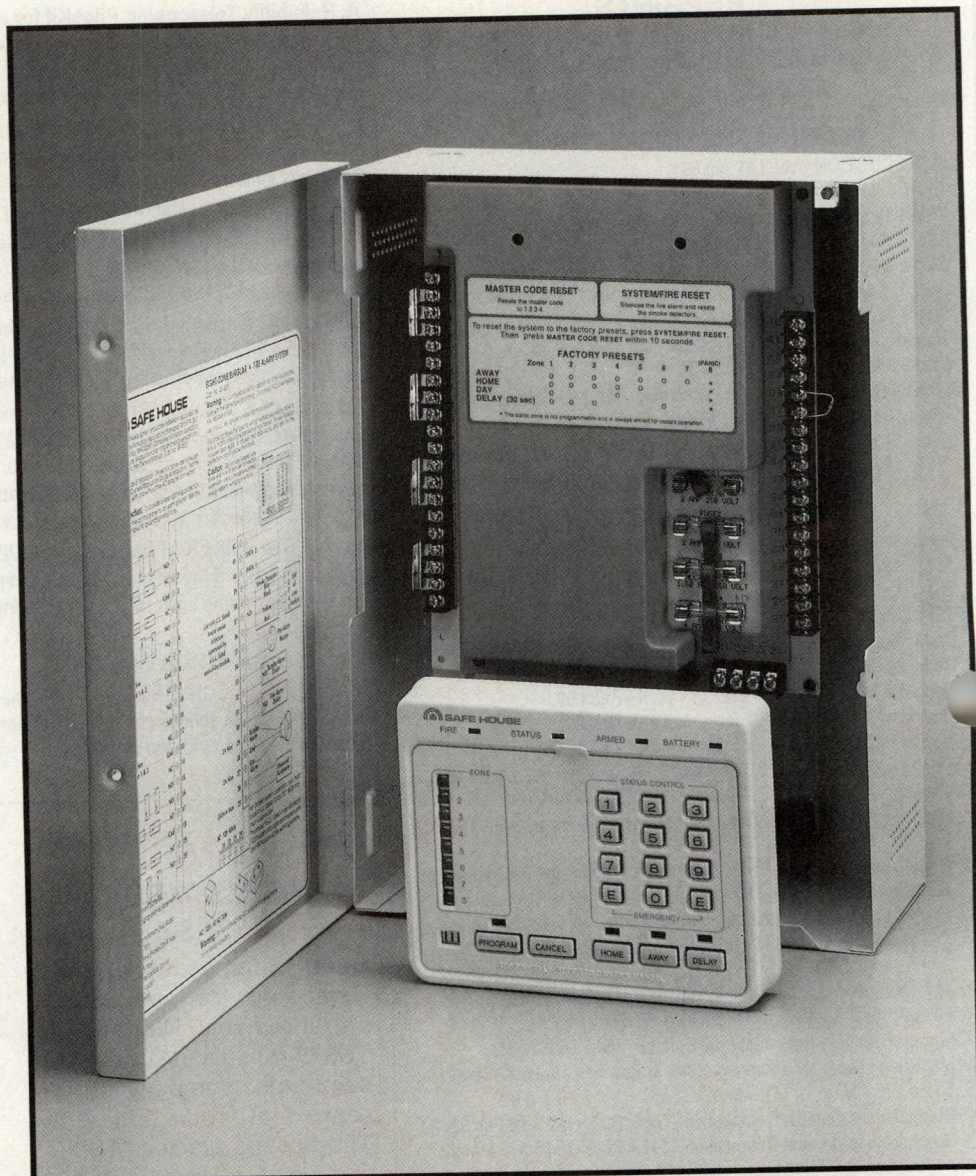
## Part 2. Alarm Systems

by AL PAULSON

**M**ore than 60 percent of the people I know have been victimized by burglaries. Some have been burgled repeatedly. Virtually none of these households had alarms. Furthermore, I only know two families with burglar alarms that have had been victimized by burglary, and one of those only had perimeter defenses. If the interior of that home had been protected by motion detectors, chances are excellent that the intruder would have given up the attempt. A good burglar alarm should be a feature of every home today, especially those with a great deal of portable wealth like a gun collection. According to FBI statistics, a burglar alarm provides a 15-fold reduction in the likelihood of a burglary. Few investments will buy comparable peace of mind. This article will discuss alarm panels and sensors, and will recommend specific products and suppliers.

Few people realize that the first electric burglar alarm was installed in 1853 by Edwin Holmes, some 23 years before the invention of the telephone and 26 years before the invention of the electric light. The burglar alarm was the earliest commercial application of electricity except for the telegraph, which was first demonstrated in 1844. Holmes established the first centralized alarm-monitoring offices in New York City and Boston in 1858; and the first professional alarm company was born. His company still survives today. Holmes has made a significant and lasting contribution to the prevention of crime.

Until relatively recently, the installation of sophisticated burglar alarms has remained the purview of the professional rather than the do-it-yourselfer. No longer. System components have become cheaper, easier to install, less prone to false alarms, and more likely to detect intruders. They tend to intimidate a would-be burglar into trying an easier target. If the goblin actually does gain entry in spite of security arrangements suggested in the first article of this series, the alarm can call you at work, alert a neighbor, or contact you directly by pager. An alarm system is a mandatory component in one's overall plan to protect a valuable collection or inventory.



The Radio Shack Model 49-485 Burglar/Fire Alarm Control Center features a programmable eight-zone burglar alarm and a remote keypad for half the price of a so-called "professional" panel of equal features and quality. Photo courtesy of Radio Shack.

A modern, reasonably sophisticated alarm system installed by professionals will commonly run \$3,000-5,000 for a basic home system. Many companies will monitor a system they've installed for a monthly fee on the order of \$30-60 per month (they will not monitor a system that anyone else has installed). Some companies will send a rent-a-cop to investigate a violation signal from a monitored alarm, while others merely telephone the police

who may or may not respond. Few police departments will monitor alarm systems directly or accept calls from automatic dialers.

Unlike safes, paying more for an alarm system may not purchase more protection. Mass-marketed alarm panels and automatic telephone dialers may provide equal performance to the lesser known brands used by professional installers — at far cheaper prices. My recommendation for a home or

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small-business alarm panel is the Radio Shack Model 49-485 Burglar/Fire Alarm Control Center. It features a programmable eight-zone burglar alarm and a remote keypad for half the price of a so-called "professional" panel of equal features and quality. Furthermore, the Radio Shack alarm comes with lucid installation instructions. The professional panel probably won't. Finally, the Radio Shack alarm and related supplies can be charged on a Radio Shack credit card, which carries an extremely low annual percentage rate.

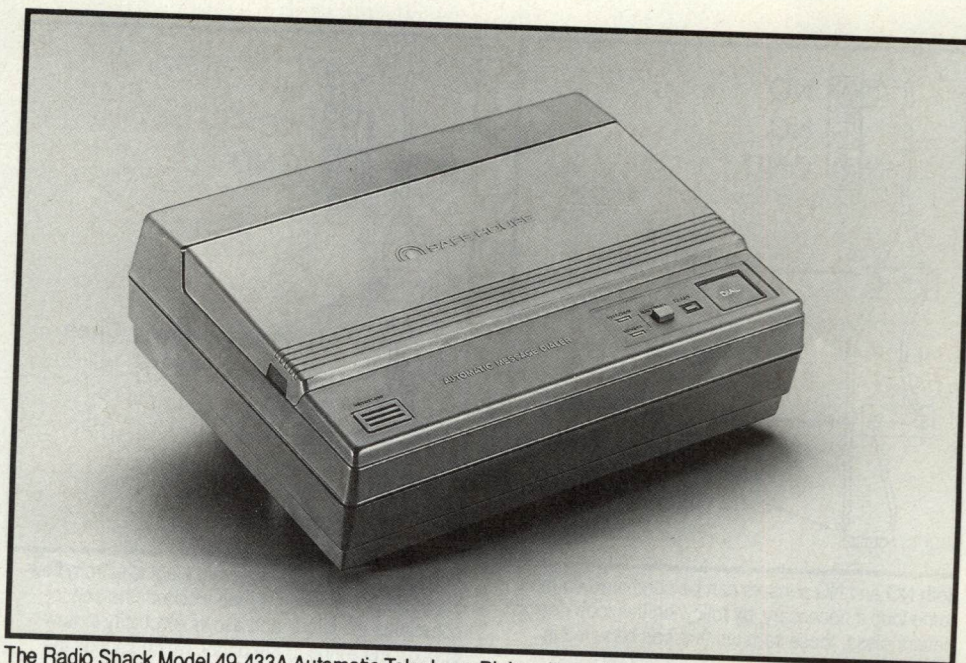
Likewise, the Radio Shack Model 49-433A Automatic Telephone Dialer will call three numbers automatically with a message you've recorded if it is activated by the alarm panel. It costs a third the price of a comparable "professional" model, and the Radio Shack variant is more user-friendly.

There are some potential downsides to buying from Radio Shack, however. My panel was defective but I didn't know it for some time, because my dialer and some other components were not in stock and had to be ordered. By the time all the components arrived and I discovered the defect, the miserly 90-day warrantee on my panel had expired. (Alarm panels and other components sold by a professional alarm supplier like Mountain West carry a full year warrantee.) So I had to hire a professional repairman to fix the panel, which cost me \$80.

A local freelance alarm installer tells me that defects in Radio Shack panels are not uncommon, but they will stand behind their products within the warrantee period. The key here is to have every other component, supply and specialized tool in hand before you purchase the panel. Long before this episode with the defective alarm panel, I had developed a distaste for doing business with Radio Shack. From Alaska to Florida, service has been somewhere between surly and downright rude. Subsequently, I've dealt with some very nice folks in Arkansas and Texas, so my attitude toward Radio Shack personnel is beginning to improve.

Nevertheless, the Radio Shack Model 49-485 Burglar/Fire Alarm Control Center and the Radio Shack Model 49-433A Automatic Telephone Dialer are the best buys in the business. If they work when you first install them, they'll give you years of excellent service. Furthermore, their user-friendly programming is quite addic- and easy to reconfigure as security requirements evolve.

A very useful feature is to be able to program the panel so selected circuits can

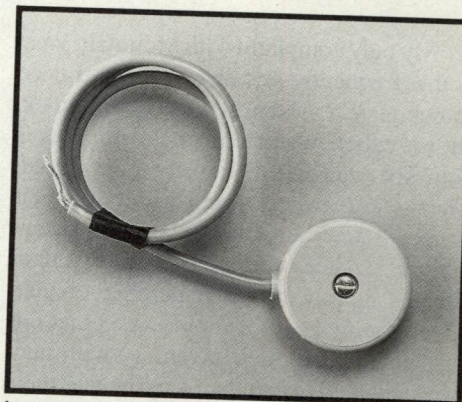


The Radio Shack Model 49-433A Automatic Telephone Dialer will call three numbers automatically with a message you've recorded if it is activated by the alarm panel. It costs a third the price of a comparable "professional" model, and the Radio Shack variant is more user-friendly. Photo courtesy of Radio Shack.

be activated during the day, and perhaps a different mix of sensors can be activated when everyone is in bed at night. One friend was murdered while in the bathroom because he didn't know someone had entered his home. A HOME mode to a burglar alarm would have alerted him to the threat. The Radio Shack Model 49-485 has the equivalent of both a day HOME mode and a night HOME mode. The Radio Shack does have some programming limitations, however. For example, I wish I could program the HOME night mode to allow me to have a violation trigger either a prealarm buzzer or a separate interior alarm — rather than the main alarm circuit, which would awake the neighbors, if I forgot to turn off the system when I went downstairs for a glass of water in the middle of the night. And I wish I could turn the day mode on and off like the night mode.

It is hard to overstate the value of a programmable system. I've used these Radio Shack devices, and I would purchase them again. Their price/performance ratio is nothing short of outstanding. Be advised, however, that more sophisticated programmable panels are available in the marketplace, if you can afford them. Some will even talk to you as you operate the control panel.

It is tempting to contrast the surly service I've experienced at most Radio Shack stores with the friendly and competent folks at Mountain West, with whom I've worked repeatedly over the years. They offer an extremely diverse array of complete systems, sensors, specialized tools and instruction books. You can even have a



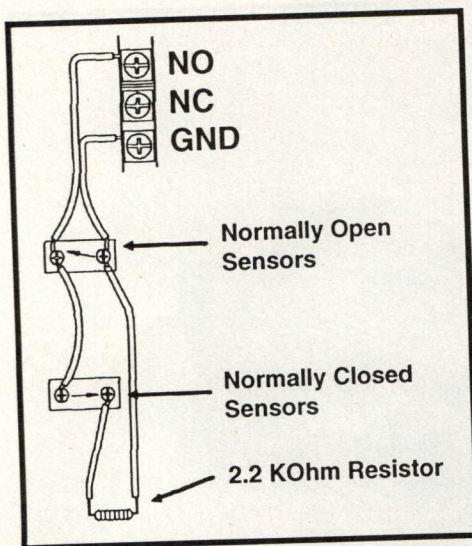
Large panes of glass should be monitored by a device mounted on the glass that activates from the frequencies of breaking glass. My favorite is the \$8 Window Bug, which will protect a pane of glass up to 4x8 feet. This sensor really intimidates burglars. Photo courtesy of Radio Shack.

panel "bench wired" to facilitate installation if you buy a complete system from them. They run a short length of wire between all major components of the system and label each wire. They also test the entire system before they ship it. After you receive the system, you can see how each component is connected and how it operates. When you are ready to install the system, just replace the short wire runs with the full length wires needed for your installation. All this service only costs \$49.

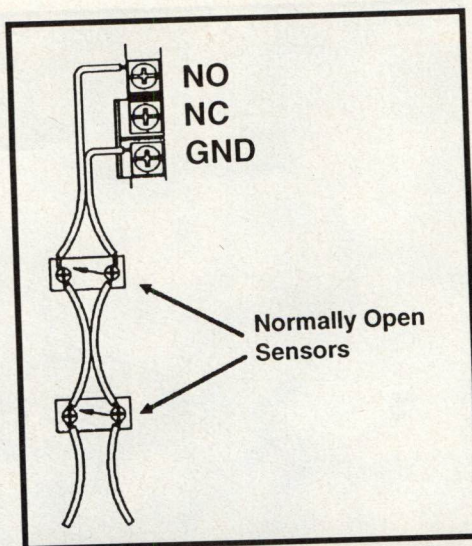
The bench-wired option is invaluable to anyone who does not install alarms for a living. Even though the Mountain West panels are more expensive than mass-marketed panels like the various Radio Shack models, the bench-wired option makes the Mountain West panels quite attractive.

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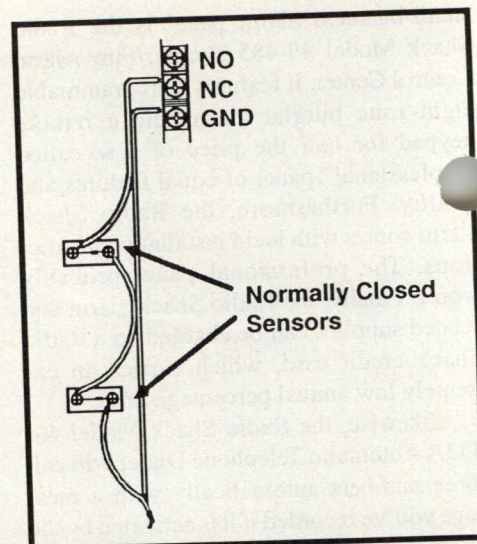




Both NO and NC sensors can be combined on the same loop if necessary, by following this loop design. Nevertheless, those sensors that can be wired in either NO or NC modes should always be wired NC. When sensors such as magnetic switches are dedicated to only one mode or the other, only purchase NC sensors. Try to avoid using NO sensors.



Normally open sensors prevent electricity from flowing through the wiring. When violated, the sensor completes the circuit and allows electricity to flow through the wiring to the panel, which sounds the alarm. The problem with NO loops is that an intruder can cut the line and disable the sensors without activating the alarm.



Normally closed sensors permit electricity to flow through the loop unless a sensor is violated. The violated sensor blocks the flow of electricity to the panel, which responds by sounding the alarm. It makes no difference to the alarm panel if a sensor is violated by an intruder, a sensor dies from old age, or a burglar cuts a wire in the loop. The alarm will sound. The continuous monitoring of the normally closed sensor loops provides maximum security.

My only complaint with Mountain West is that frequently one or two things I need to complete a system will be out of stock. In my experience, the average order takes four-six weeks to be fully completed. Thanks to the quality and variety of their wares — and their friendly and competent service — I keep coming back to Mountain West. I simply try to remember to plan ahead for my needs. I should also point out that they update their inventory with new products more often than they update their catalog, so talk to them on their toll-free number rather than simply ordering by mail from the catalog. There's a good chance you'll discover some better or more cost-effective products than are listed in the catalog.

If you do purchase a Radio Shack alarm panel and dialer, you'll probably purchase the siren from them too. Unlike most professional alarm panels, the Radio Shack panels do not incorporate a device driver to activate an industrial-strength professional speaker to function as a siren. Get their top-of-the-line model; nothing less will do. If you really want maximum sound output, you can buy a device driver, 18 volt power pack and 1.5 amp speaker from Mountain West.

An alternative I especially like is a Talking Siren Driver that begins with a synthesized voice warning followed by one of six distinctive sounds which the user can select: a high-pitch steady siren; a sweep siren; a European siren; a bell; a pulsing bell; or a pulsing horn. Depending on whether the burglary or fire sensors have

been violated, the alarm broadcast begins with the English words "You have violated a protected area! The police were called! Leave immediately!" or "Fire! Leave immediately!" The burglary message repeats once and the fire message repeats twice before the selected alarm (siren or bell) sounds for three minutes and then resets until the next sensor violation. Resetting helps conserve the backup battery.

The verbal warning has two obvious benefits. The burglar is informed that help is already on the way, which should be quite intimidating. And the homeowner is alerted to the specific nature of a problem without having to remember which sound means fire and which sound means an intruder. This is an invaluable feature when awakened from a sound sleep, and makes the \$99 investment for this driver seem trivial. The Talking Siren Driver, which is available from Mountain West, works with almost any standard 12 volt panel and speaker. Mountain West also sells an alarm panel with this driver built in.

Mount at least one siren with anti-tamper circuit outside the house in a protective metal box (or out of sight just inside the gable vents of the house) to attract the neighbors. Mount a second siren inside the house to intimidate any intruder who has gained entry. The use of multiple sirens will require either a larger battery for the alarm panel, or a second power source and back-up battery for the extra siren(s). The biggest backup battery I've found was a gel cell used to provide emergency power for elevators. New elevator batteries are

very expensive. But elevator repairmen replace them on regular schedules, so these huge gel cells generally have a lot of life left in them. Talk to your local elevator repairman if you want to pursue this option.

Most alarm panels will turn off the sirens after 3-5 minutes and then reset if a sensor is violated again. There is no way to know as you approach the house if the alarm has been triggered and then reset itself. An intruder could still be on the grounds or in a portion of the house not monitored by motion detectors.

Two friends have been killed in unrelated incidents when they came home and unknowingly stumbled into armed intruders (I should point out that neither home had a burglar alarm). Therefore, I always wire a relay into the siren circuit which turns on and KEEPS ON a large red LED (light-emitting diode) which protrudes from an inconspicuous spot on the outside of the house. The LED can be seen from some distance if you know where to look. It once bought me enough time to don a Kevlar vest which I keep in the car and suitably arm myself before entering a potentially dangerous situation. This little gambit of a relay-operated LED outside the house can save lives.

With a Radio Shack alarm panel, I recommend purchasing sensors, wiring, and tools from Mountain West. Furthermore, purchase a 4 amp-hour rechargeable battery from Mountain West, since Radio Shack only provides a pair of wimpy bat-

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teries designed for a cellular phone. Cost-conscious buyers should note that basic magnetic door and window sensors, as well as Window Bugs, are cheaper from Radio Shack. But I was better served by different sensors not available from Radio Shack.

#### SENSORS

Mountain West offers a much wider variety of sensors and other alarm-related materials than Radio Shack.

Their Crow MH10 UL passive infrared motion detector, for example, uses only half the power of most infrared sensors I used to install, so your alarm system will function twice as long if it's drawing power from the backup battery. Or you can install twice as many infrared sensors (eight instead of four "professional" sensors on the Radio Shack panel). A passive infrared sensor detects an intruder by his body heat, which is dissipated into the environment as infrared radiation. The passive sensor does not emit any energy itself. The sensor merely detects an external source of energy.

The Crow sensor is much smaller than the Radio Shack sensor, it is more cosmetically benign, and it has more mounting options. The chief merit of the Radio Shack sensor is that it uses 20 percent less energy than the Crow sensor. Therefore, the Radio Shack panel can accommodate ten Radio Shack infrared sensors or eight Crow sensors. At the time of this writing, the Radio Shack sensor costs \$60, while the Crow sensor costs \$69. The Crow sensor is also more durable and less easily fooled into triggering false alarms than "professional" sensors I installed just a few years ago, and it covers a width of 130 degrees out to a maximum effective range of 45 feet.

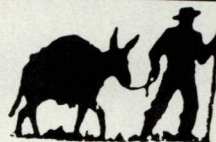
Mountain West also offers microwave motion detectors which can be installed in plain sight or behind thin panelling, cloth or glass. The device actively emits a radio frequency (generally 10.525 GHz for modern sensors and 915 MHz for older units), and then senses the motion of an intruder (or pet or fan) by detecting a Doppler shift in the appropriate frequency. I should point out that the best microwave and infrared motion detectors allow masking a portion of the sensor so pets or other potential problems will not trigger the sensor. Since microwave sensors can see through glass and thin wood partitions, they might detect motion outside the protected area, so placement of the sensor can be tricky. Sometimes fluorescent lights — as well as CB and police radios — can set off a microwave sensor as well, especially older or less sophisticated models. Finally, microwave sensors are active (continues)

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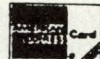
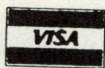
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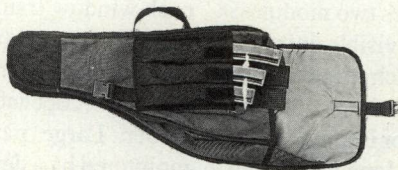
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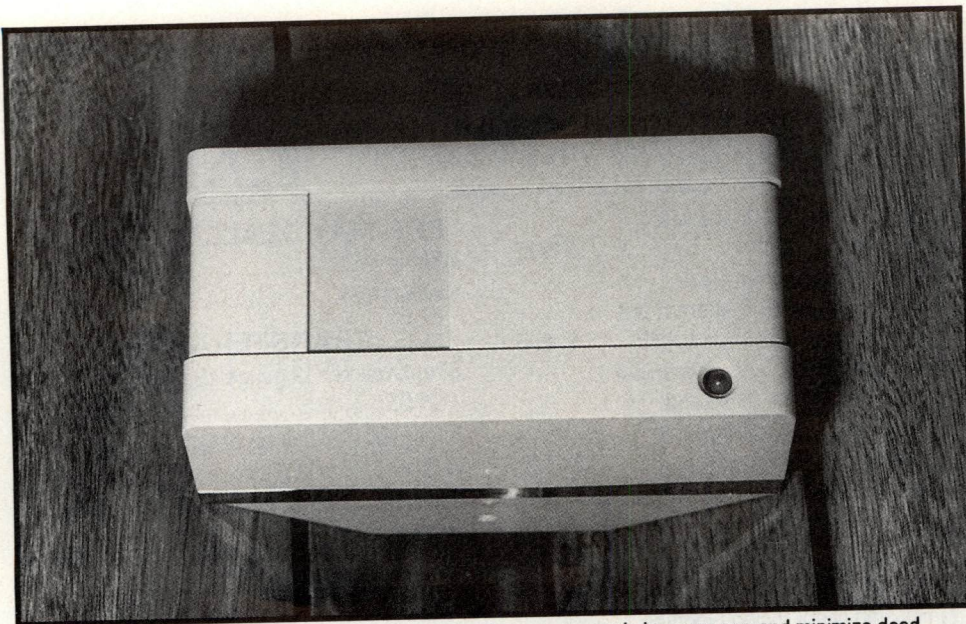
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I like to mount an infrared motion sensor in the corner of a room to maximize coverage and minimize dead spots. Photo by Polly Walter.

rather than passive, so they use twice as much power as a Crow passive infrared sensor.

You'll probably want to install an independent power supply with its own backup battery for a loop containing several active motion sensors. Small microwave sensors have a range of about 25 feet, while large microwave sensors seem to have a maximum range of about 160 feet. Since microwave sensors seem more prone to false alarms than passive infrared for my applications, I generally prefer infrared motion detectors in the home unless a sensor must be absolutely hidden from view for aesthetic reasons.

Photoelectric motion sensors are another active rather than passive detector. This system actually requires two modules: a transmitter to emit an invisible infrared beam, and a receiver which triggers the alarm circuit if an intruder interrupts the beam. A photoelectric sensor is quite useful for monitoring an edge or a long linear area such as a hallway with a number of doors. A small photoelectric unit which is disguised as a pair of electrical outlets can monitor a line 150-feet long, while a small infrared sensor commonly has a range of only 30-45 feet. More powerful photoelectric units commonly have a range of 250 or 500 feet, while large infrared units can rarely reach beyond 60 feet.

Generally speaking, the photoelectric sensor is rather expensive, consumes significantly more power than a passive sensor, and is generally more suitable for large commercial, rather than residential applications. A good indoor photoelectric sensor will cost two-three times as much as

a Crow infrared sensor, and a good outdoor photoelectric detector can run eight-ten times as much.

Mountain West offers a tremendous variety of motion detectors (some overt, some covert) that can satisfy any requirement. I like to mount an infrared sensor in the corner of a room to maximize coverage and minimize dead spots. Place a passive infrared motion detector to monitor each exterior door, each safe or cluster of safes, and each room with valuables. Several passive infrared motion sensors can monitor the same area or overlapping areas without interference.

Use magnetic sensors (which will run \$4-8) to monitor whether a door or window is open. An extra magnet can be installed on each window frame so the windows can be partially opened (say, at night) for ventilation, and still trigger the alarm if the window is opened enough to admit an intruder. Large panes of glass should be monitored by a device mounted on the glass that activates from the frequencies of breaking glass. My favorite is the \$8 Window Bug, which will protect a pane of glass up to 4x8 feet. The Window Bug is available from both Radio Shack and Mountain West. This sensor really intimidates burglars. Because the event of breaking glass is brief, the Window Bug requires that a pulse stretcher be wired into the circuit for reliable protection. One \$23 pulse stretcher will service a loop with numerous Window Bugs. Ironically, Radio Shack does not sell the pulse stretcher, but Mountain West does (and also provides free detailed instructions).

The GlassGuard is a superior and some-

what smaller glass sensor which will protect up to 10-foot windows. Its only liability is cost. A \$100 installation kit is required, and each piezoelectric sensor costs \$23. Each loop with GlassGuard sensors requires a \$60 analyzer which accommodate up to 50 GlassGuard sensors. The installation kit includes one analyzer, a tester, special adhesive, and one GlassGuard sensor.

Magnetic sensors and Window Bugs are not ideal for every style of window. Some can be protected more effectively by replacing the screen in each window with a special fiberglass screen with fine electric wires woven into the fabric. These wires are connected into an alarm circuit like any other sensor. Any attempt to cut the screen will trigger the alarm. This is not a good option if the screens can be removed from the outside of the house.

Most of the aforementioned sensors can be wired into the alarm system via normally open (NO) or normally closed (NC) circuits, which are called "loops." These wiring modes are illustrated in the accompanying artwork. Normally open sensors prevent electricity from flowing through the wiring. When violated, the sensor completes the circuit and allows electricity to flow through the wiring to the panel, which sounds the alarm. The problem with NO loops is that an intruder can cut the line and disable the sensors without activating the alarm. For that reason, normally open sensors should never be used.

Normally closed sensors, on the other hand, permit electricity to flow through the loop unless a sensor is violated. The violated sensor blocks the flow of electricity to the panel, which responds by sounding the alarm. It makes no difference to the alarm panel if a sensor is violated by an intruder, a sensor dies from old age, or a burglar cuts a wire in the loop. The alarm will sound. The continuous monitoring of the normally closed sensor loops provides maximum security. Those sensors that can be wired in either NO or NC modes should always be wired NC. When sensors such as magnetic switches are dedicated to only one mode or the other, only purchase NC sensors.

The final article in this series will discuss professional alarm installation techniques, what to do if the alarm is triggered and its automatic dialer calls you, what to do if a burglar still manages to gain entry in spite of the alarm. This article will also provide a list of suppliers. MGN

Machine Gun News - September 1993



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# PERFORMANCE SURGERY

## for the MK760

**M**K Arms, who manufactured the MK760 9mm SMG has gone out of business. Myself and many others are owners of these weapons. The gun has received a lot of bad press from various gun magazines and individuals. I would like to defend the gun through MGN.

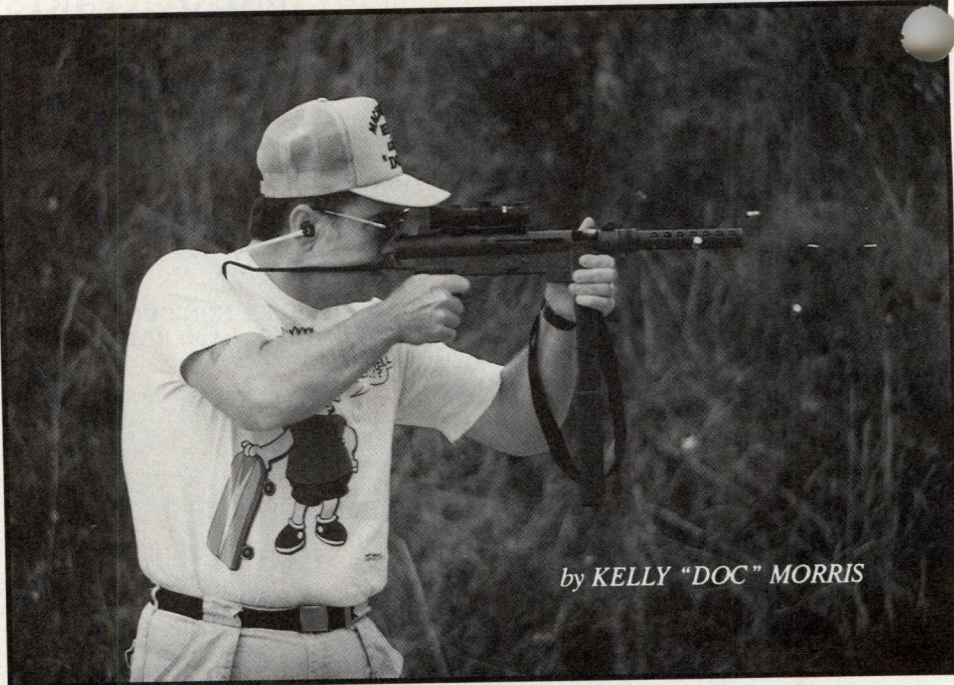
The gun is not a name brand weapon like some of the more expensive 3rd generation SMG's but for the money, and with it's simplistic and rugged design, it's not that bad. With just a few modifications and some performance surgery the gun can be very reliable and accurate within SMG ranges.

I will admit that I was not impressed with the MK760's performance out of the box. Not wanting to return the gun and go through the waiting game again, I decided to use a little common sense and basic theory on how an open-bolt SMG functions and went to work on mine.

After numerous video recordings and slow motion freeze-frame playback sessions of the gun being fired while zooming in on the feeding, extraction and "blow-back" recoil functions, I reached some conclusions as to what problems existed. Excessive magazine wobble and heavy slamming of the bolt rearward fully collapsing the recoil spring.

A major alignment problem can be contributed to the magazine well and the rear locking lug on the magazines. There is a raised area on the bottom portion of the rear magazine lug. Not enough metal is present at this site to fill the slotted groove at the back to the magazine well. This site needs to have extra metal added to prevent the magazine from wobbling side to side. (Figure 1) **Important:** This is not the raised tab on the rear locking lug that engages the magazine catch.

I cut a slightly oversized piece of soft



by KELLY "DOC" MORRIS

metal and sweat-brazed it to the center of the rear locking lug and then filed it down to fit and fill this slotted groove in the magazine well. The old raised area should be filed flat to allow proper fitting of the new piece of metal. This process can be done with any of the magazines that are interchangeable with the MK760 (S&W 76, Swedish K, Port Said).

It even helps to have some extra metal projecting past the lower portion of the locking lug as this fills that slotted groove with more metal and gives added stability to the magazine when locked in (Figure 2) (Figure 3a, 3b, 3c).

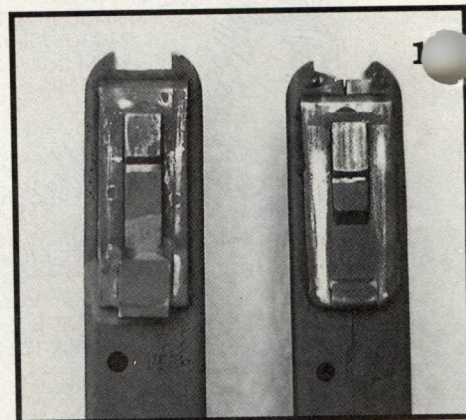
These magazines need to lock up in the magazine well tight, with little or no movement from side to side, or front to back. This should remedy any alignment problems of the magazine (bullets) to chamber and one I feel is most important to facilitate proper feeding of rounds.

I also recommend removing any parkerizing from the feed ramp and underside of the bolt surface that glides across the top round in the magazine during "blow-back." These areas should also be mirror polished (Figure 4a, 4b).

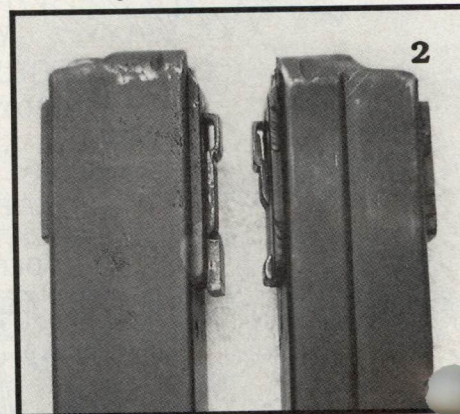
Throating the barrel improves the angle of entrance for the bullets entering the chamber. This can be accomplished with fine sandpaper, starting with 400 and then finishing with 600 paper. It will take some time to do this and your thumb may get a little sore but the results are worth it. Mirror

polish this throated area with crocus cloth also.

Using a pencil or dowel rod, wrap

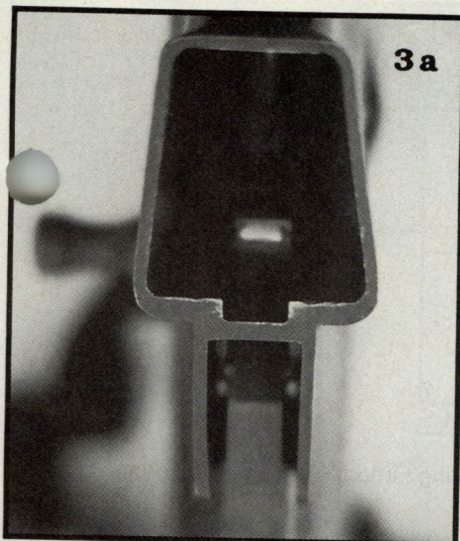


Factory magazine on right with small metal tab. Modified magazine on left showing added metal tab.

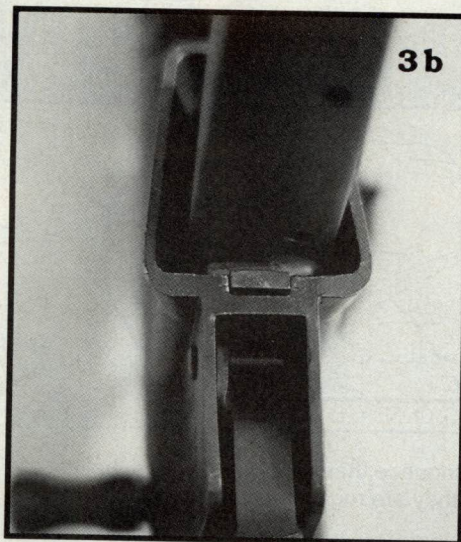


Side view of factory magazine on right. Modified magazine on left with extra metal projecting past locking lug.

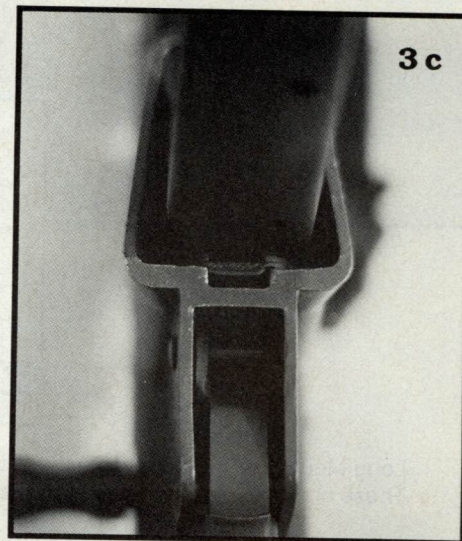




Empty magazine well exhibits slotted groove on rear surface of magazine well.



Modified magazine inserted into mag well displays the slotted groove now sufficiently filled by the metal tab.



Factory magazine demonstrates the need for improvement with inadequately filled groove.



Author's MK760 with electronic scope, factory magazine and extended 60rd. magazine made by having two factory magazines TIG welded together.

crocus cloth around one end and highly polish the barrel chamber. The empty cases are less likely to stick to the chamber walls making the extraction process smoother.

Magazines—those long rectangular boxes can be quite a pain in the neck. I'm a firm believer of rounded polished magazine lips on all my guns whether SMG's or pistols. Use a small fine file to deburr and round the lips slightly, then sand with fine 600 paper. Polish the lips with crocus cloth till mirror smooth and shiny. This modification is to allow practically "0" friction resistance as the bullet is stripped from the magazine and heads toward the chamber. Any burrs could possibly misalign the bullet when being stripped and cause a "failure to feed" jam.

To help dampen the bolt slamming rearward on "blowback," you can use a 1" felt polishing wheel from a Dremel tool and modify it into a makeshift "buffer pad" that fits over the recoil spring guide. The pad is the same diameter as the flat surface on the recoil spring guide and fits into the receiver tube without any problems. Cut or punch out the center portion 3/8" to fit over the end of the recoil spring guide and you have an excellent "buffer pad" very easily made (Figure 5a, 5b).

The sights on the MK760 are poor as far as I'm concerned. The receiver tube is thick Machine Gun News - September 1993

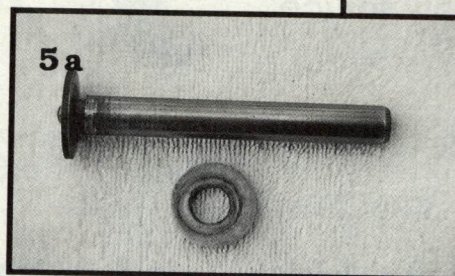
enough that it can be drilled and tapped for a scope mount. A 3 or 4 hole

Weaver-type base mount with a #6-32 or smaller thread tap will hold the scope mount in place. Use Loc-tite with the screws. Be sure to deburr the inside of the receiver tube where the drill holes went through. I had a competent gunsmith do this work for me. Fitted with an Actions Arms UltraDot, scope my MK760 competes right along with the best MP5's in the Class III matches I shoot in (Figure 6).

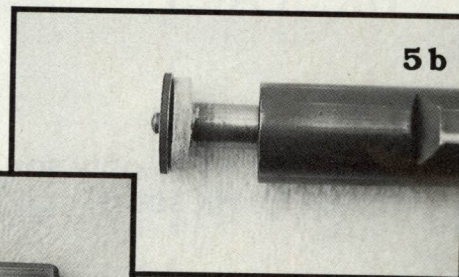
Now stop and think about some basic physics; forward motion of a weighted mass (bolt) picking up (stripping) and driving a small object (bullet) into a small opening, (chamber) precise stable alignment and reduction of friction and vibration are of utmost importance.

All of these problem-solving methods are based on my own theories and common sense knowledge. I feel all of these improvements compliment each other for the overall function and smooth operation of the weapon.

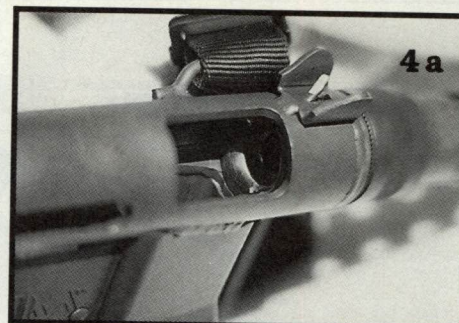
These modifications have greatly improved the reliability of my MK760. I still have an occasional jam or extraction prob-



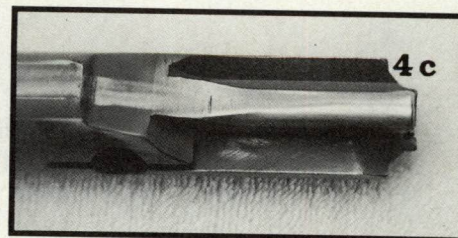
Recoil spring guide and improvised "buffer pad."



Buffer pad in place reveals how bolt is "dampened" during recoil. (Recoil spring would be in place when assembled in weapon.)



Mirror polished feed ramp can be done by hand or flexible Dremel tool.



Bottom view of MK760 bolt that has been highly polished.

lem but not like before. Clearing an open-bolt SMG is easy and fast with a small pocket screwdriver. I carry one and it is very important when shooting competition because...The Timer Keeps Running! MGN



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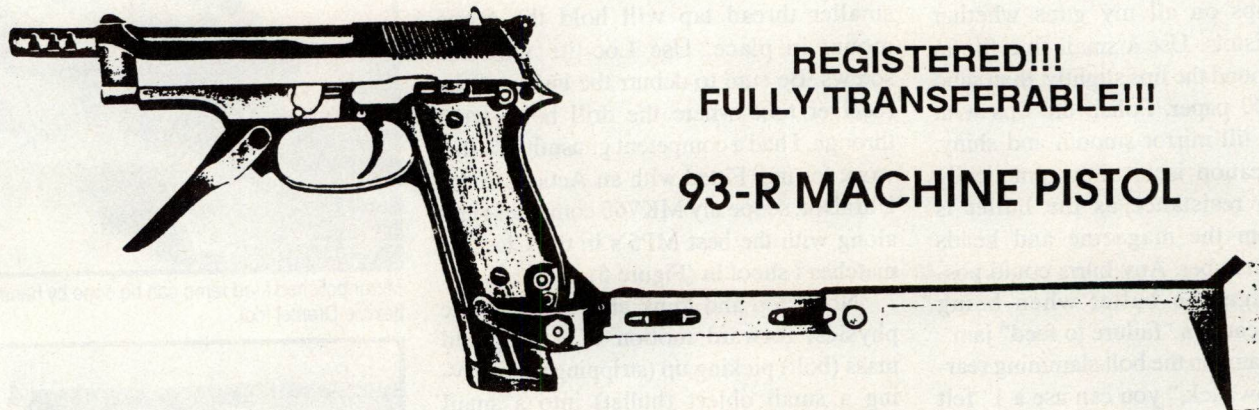
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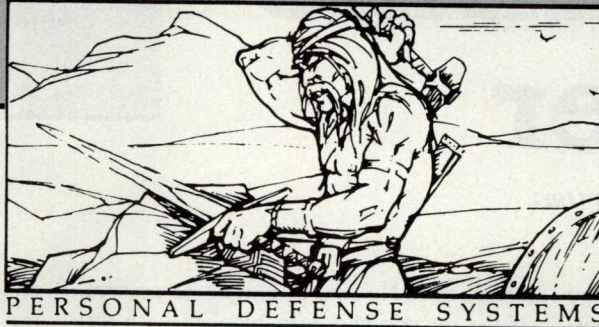
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# The Ammo Bunker

by *DUTCH HILLENBURG*  
*Cartridge Headspace*



**M**y friend Frankie D. is not a happy camper. While reloading recently, he unwittingly rolled the dice of fate and came up snake eyes. Frankie very carefully weighed his powder charge, examined his freshly tumbled cases and measured his case length. He loaded five carefully prepared rounds into a magazine and walked outside to test his samples before cranking a batch out. Frank checked his bore, placed the selector on SAFE, inserted the magazine, pulled back on the charging handle and let go. The bolt carrier slid forward and the rifle exploded. BOOM!!!

What happened? Slam fire. The weapon was examined by Gene Crum, Technical Editor of Gun Week, and myself. After ruling out any possibility of an overload we turned our attention to the remains of the shattered rifle. We both noted that the edges of the locking lugs were sheared off while the load bearing face of the lugs were only slightly damaged. The aluminum upper receiver was split from front to back and the bolt carrier and bolt were seriously mangled. The chamber area of the barrel assembly was damaged but the barrel itself was fine and the comparatively fragile gas tube was intact. If the barrel had been blocked somehow it would have burst or at least bulged. This is the cause of the common

barrel ring. No ring or bulge was present. If the muzzle had been blocked with dirt and the bolt had been fully locked then the gas tube would have ruptured as the approximately 46,400 copper units of pressure generated by the cartridge sought the path of least resistance.

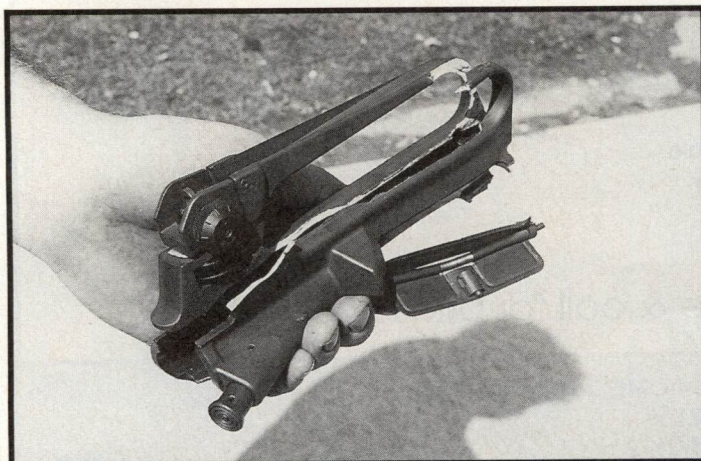
A slam fire is a remarkably common occurrence in the AR-15 and other firearms when using reloads. Quite often the shooter doesn't even realize that it has occurred. Many assume that the hammer has "slipped" or that they have a defective sear. The results are a "double" or an accidental discharge when the first round is locked and loaded. Some "clever" individuals, including some overzealous BATF types, have intentionally induced slam fires to achieve full-auto fire from semi-auto firearms. As the photographs show, this kind of "creative engineering" is playing with dynamite. Slam fires can also be caused by improperly seated primers or more rarely by an improperly sized cartridge case. The latter is what caused Frank's problem.

Like many other firearms, the AR-15 has an inertial firing pin. Try the following experiment sometime but be careful as there is a possibility of an accidental discharge. Examine the unblemished primer of a factory-made cartridge then chamber

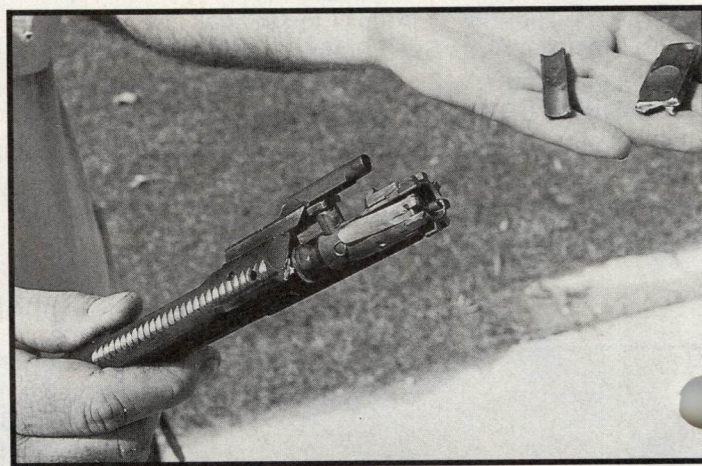
and eject the unfired cartridge while pointing the muzzle in a safe direction. It is highly likely that you will now note a small primer strike on the cartridge. The inertial firing pin has travelled forward with the bolt carrier but inertia has caused the firing pin to continue traveling forward after the bolt carrier has come to a stop. If you have an out-of-spec firing pin or bolt carrier you could have an accidental discharge. Some weapons feature devices such as a spring to dampen firing pin movement and thus further reduce the rare possibility of a weapon caused accidental discharge. Quality control in the firearms world is necessarily very high. If a problem occurs, it is almost always the result of using bad ammunition.

There is also a possibility of the firing pin being stuck in a forward position by a bit of debris. The result of a stuck firing pin is that you have created a fixed firing pin. In a closed-bolt weapon a fixed firing pin ensures that when a round is chambered it will fire spontaneously whether the safety is on or not. The safety selector controls the movement of the firearm's trigger group components. It has no control over a firing pin which is out of spec or stuck in a fire configuration.

Like skilled pilots conducting a pre-flight examination of their aircraft,



This AR-15 upper disintegrated under the 46,400 copper units of pressure.



The bolt carrier was shattered by improper cartridge headspace.



experienced shooters carefully examine their weapon and particularly its bore to ensure that it is safe to fire. The next time you begin your preshooting weapons safety check you might make it a point to visually inspect the bolt face to ensure that the firing pin does not protrude and present a potential for an accidental discharge.

Reloading for a bolt-action rifle is much simpler than reloading for a semi or full auto. A cartridge destined for a bolt action needs only to be "neck-sized." A cartridge may fit easily into a weapon's chamber but still be improperly sized. In most cases, the case is slightly undersized resulting in a slightly excessive headspace. The undersized cartridge will "bottom out" in the chamber and the bolt will lock. Semi-autos and full-autos such as the AR-15 often utilize inertial firing pins. While this is not a problem with ammunition produced to military or SAAMI requirements, an improperly seated or overly sensitive primer may cause a slam fire and the result is a "double" or an accidental discharge.

Frank was not this lucky. Even though the overall length of the cartridge was carefully gauged, the length to the

cartridge shoulder was not measured. This oversized cartridge resulted in a problem of insufficient chamber headspace. In a bolt action rifle this would be evident as a bolt that was a little stiff on closing. In Frank's AR-15 the results were disastrous. The excessive headspace prevented the chamber from closing easily while allowing the round to slam fire. The round slam fired while the cam was still turning and before the bolt lugs were fully locked. The pressures mounted until the edges of the lugs gave way and the gases vented into the receiver. The light aluminum upper receiver was torn apart when it was exposed to pressures far in excess of those it was designed to contain.

Frank was lucky. The blast blew his ear muffs off and set his beard afire but he was uninjured except for a temporary (we hope!) hearing loss in his right ear. Frank is a little gun shy but he still thinks reloading is great fun and recognizes that his experience was an unlucky accident.

The moral of this tale of misfortune is that reloads must be properly sized. If the reloads are being produced for necked cartridges such as .223, .308, or 7.62 x39mm and this ammunition is being used

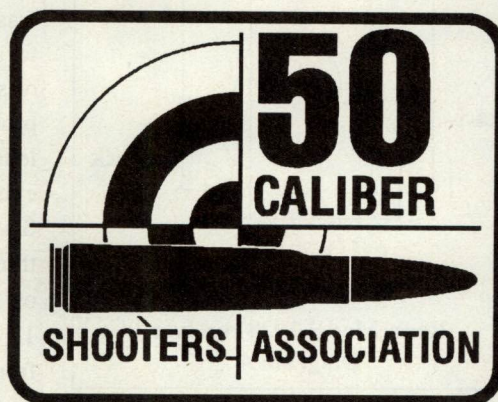
in semi or fully automatic firearms then cartridge headspace gauges should be used. It is not necessary to gauge each round. Simply check the first few cartridges in both the maximum and minimum gauges to ensure that your reloading dies are properly adjusted and then spot check an occasional round to ensure that your settings are still on target. Cartridge cases stretch with use and should be measured to ensure accuracy. Stretched cases can be trimmed using a case trimmer. A very badly stretched case can also conceivably cause inadequate headspace problems if the case mouth "bottoms out" in the chamber.

Do you reload bottle-neck cartridges? Do you shoot reloaded bottle-necked cartridges? Do you own a set of cartridge headspace gauges? Dillon Precision has them at the very reasonable price of \$15.95. Much cheaper than a Colt AR-15. Or a Stoner. Or a Minimi. Get the picture? Get a set of gauges. Be safe out there, people. **ROCK-N-ROLL!!!**

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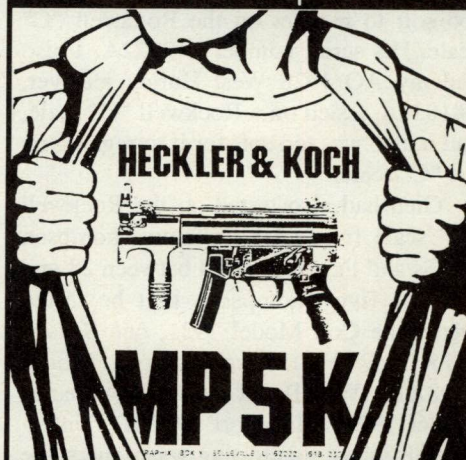
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# Tinkering With Thompsons

by JIM KLODZINSKI of Gunmachines  
Thompson Cracked Receivers, Part II



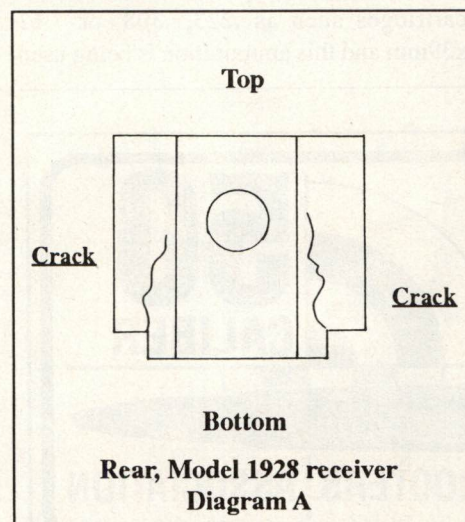
**B**efore getting into this article, let me make a correction about something that appeared in Part I of this series dealing with the Thompson cracked receivers published in the July, 1992 issue of Machine Gun News. I reported in that article that Glen Whittenburger noticed the hairline cracks in the rear of his AO 1928 TSMG after approximately 30,000 rounds had been put through it. After the publication of the article, I spoke with Glen and he told me that it was after approximately 20,000 rounds had been fired that he noticed the cracks. I apologize to my readers for this error. It now stands corrected.

In Part I of this series I also mentioned that Glen's AO West Hurley TSMG receiver was tested on a Rockwell "C" scale and that the metal of the receiver was too soft to register on the Rockwell "C" scale. His serial number is 2222A. I also had my AO 1928 West Hurley receiver, S#1036A, tested on a Rockwell "C" scale, and it also was too soft for it to register on the "C" scale.

Glen had also tested on the Rockwell "C" scale five other full-auto Thompson SMGs and they registered between 28 and 32. The five Thompsons that he tested were: one Colt Model 1921, one Savage M1A1 (WWII), two Savage Model 1928A1's (WWII) and one Auto-Ordnance Model 1928 Bridgeport (WWII). Unfortunately, since this testing was done some time ago and he did not keep notes, he was unable to tell me which reading went with which gun. However, my sources experienced in machining and full-autos advise me that the 28 to 32 range on a Rockwell "C" would be the range they would try to achieve if they were to make a Thompson receiver from scratch.

Just prior to submitting this article for publication, I had the good fortune of talking with John West of Auto-Ordnance, their main technical man concerning the Thompson that they had manufactured. Mr.

West started with AO in West Hurley in 1983. He advised me that all of the AO West Hurley Model 1928 and M1 (M1A1) receivers were machined from a low carbon steel bar stock number 12 L 14. My technical sources advise me that 12 L 14 has lead in it for ease of machining. Also because 12 L 14 is soft, hairline cracks result rather than a brittle breaking out of the rear of the receiver. Also 12 L 14 allows for easy repairing of the rear of the receiver should hairline cracks develop.



Mr. West further advised me that none of the West Hurley receivers, 1928 or M1 were heat treated and that since 1983 he had seen no more than three West Hurley receivers returned to the factory with hairline cracked receivers. His description of the cracks coincides with the description that I mentioned in Part I of this series. See Diagram A. Further, Mr. West advised me that the receivers he saw with cracks all had their original parts in them as put in by Auto-Ordnance when they left the factory. At least two of the receivers had the two piece actuator (the round cocking knob peened to the front of the actuator) in them indicating that they were probably of early manufacture circa., late 1970's.

Since I discovered the cracks in my West Hurley Model 1928 receiver, about four years ago, I have received calls from only five individuals who experienced hairline cracks in their Model 1928 TSMG receivers. One was Glen Whittenburger, three additionally were in West Hurley 1928s and one was in an AO Bridgeport (WWII).

Tracie L. Hill in Volume 29, March 15, 1993 issue of the Thompson Collector News reported under "Letters to the Editor" that he had received letters concerning "many" (West Hurley) guns with "broken receivers". I called Tracie Hill as soon as I was aware of what appeared in the newsletter and he advised me that he received "five or six" letters concerning the rear receiver problem of cracking, and that all of the letters dealt with West Hurley AO 1928s, except one which he recalled to be a Savage. Add to this the "no more than three" that Mr. West saw, I am only aware of 15 or 16 cracked 28 receivers of which 13 or 14 were West Hurley's. Mr. West from AO also advised me that approximately 4000 West Hurley 1928 receivers were made. Therefore, the cracked West Hurley 1928 receivers that I have become aware of, in the last four years computes to four-tenths of one percent of the approximate 4000 total made.

I am making my toll-free number 1-800-748-1788 available until September 30, 1993 for anyone who wishes to report a TSMG cracked receiver. I will publish the results in a future article.

Next month: Thompson Cracked Receivers, Part III.

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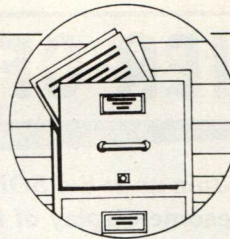
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# The Forms

by DAN SHEA



I'm still getting a lot of questions about making semi-auto's out of machine guns or parts kits. A couple of things that you need to be aware of right off the bat—it is illegal to take imported parts and manufacture any semi-auto that is on the 1989 ban list, and it is illegal to make a semi-auto out of a machine gun. You could not, for instance, take a U.S. manufactured AK receiver and manufacture a full or folding stock semi-auto using imported parts. You could use a U.S. manufactured receiver and manufacture any semi on the ban list using U.S. manufactured parts (or imported parts that kept you in compliance with the import ban—i.e.; thumbhole stock, no bayonet lug, and, of course, no dreaded flash hider). As far as taking existing machine guns and making them into semi-autos—one idea that keeps cropping up among all you enthusiasts is to take MG-34's in Europe, convert them to semi-auto only, then import them—forget it. Technology Branch is very specific about "once a machine gun, always a machine gun" as a policy. That doesn't mean parts, however. A parts kit that is missing the registerable part, or missing a section thereof that has been determined to meet the import criteria as a "receiver," is not a machine gun. It is just parts, and as we all know, "parts is parts." These may be used in the assembly of a semi-auto firearm that does not fall into the firearms list of the 1989 ban. Could you take one of the myriad of Sten parts sets out there and make a semi-auto? Yes. That question brings us to "What is a semi-auto?" According to one definition, it is a firearm that used the action of firing one bullet to load the next bullet and prepare the mechanism to fire it on the next pull of the trigger. (According to NBC News, a semi-auto is a firearm that has a twenty round magazine that fires 400 rounds with one pull of the trigger.) Legally, the definition must include that it is not readily made to fire full-auto. In *Seven Miscellaneous Firearms vs. The United States* (1980 or 1981 Washington D.C. Federal Court), the so-called "NRA Museum" case, the judge defined readily convertible as "with common household tools," including a Dremel tool. If you need lathes, heli-arcs and milling machines to convert it to full-auto,

you're probably safe. I say probably because it is easy to overlook something and I strongly recommend that anyone planning to make a semi-auto out of machine gun parts call BATF and discuss their plans. I will be happy to look at them, also. It must have a floating firing pin, and fire from a closed bolt. Another "biggie" is that the original full-auto parts may not fit in place anymore. Watch your barrel length so you don't end up with a short barreled rifle. The barrel must be over 16" long.

**Q** I'm not a dealer or a manufacturer, just someone who owns and enjoys shooting Class 3 weapons. My shooting buddy tells me that ATF can knock on my door anytime without a warrant and tell me they want to look at my weapons and papers with just the flash of a badge. I say and no one has the right to do that. Who's right?

Also, is a copy of my papers for each gun good enough to get me by, or do the originals have to stay with it at all times?

T.J.

**A** Tough one, T.J. BATF takes the position that they can come check on an NFA firearm at any time. The Fourth Amendment to the Constitution guarantees against unreasonable search and seizure. That means they need a search warrant. The Supreme Court has ruled against the so called "Administrative" warrants. If an agent wants to see your NFA firearms, and you have checked their I.D., I'd recommend complying, unless you are willing to fight it in court. This is supposing you are and individual who is not an FFL holder. When you sign for your FFL, you allow the BATF one unscheduled inspection of your licensed premises and safe storage per year. This is under the Gun Control Act of 1968. From a purely legal and purist point of view, NFA firearms for Class 3 dealers are not really subject to the inspection, unless it has something to do with raising revenue. I strongly suggest you comply with reasonable requests for an inspection, unless you are willing to pay the legal fees. I would like to see this situation diffused and returned to a non-adversarial administrative inspection. Unfortunately, in some areas, these inspections are used to harass licensed dealers and private citizens who

own firearms. There is no reason for a dealer to not comply with a properly done inspection.

Regarding having the forms for your NFA firearms with you—keep your originals in a safe place. Use photocopies for carrying with you.

**Q** Let me tell you what ATF is doing in my neck of the woods. I got a letter from the County Tax Office saying I need a new privilege license and that I must come in within 5 days. I'm told, "We are cross checking our records against the list of FFL's that ATF gave us"! If you don't show up ATF takes your FFL.

ATF is hunting down all the little guys who do gunshows, gunsmithing, etc. They are taking FFL's like crazy. Told one guy they had been to 80 houses and taken 75 FFL's. They are threatening IRS audits, large fines, telling of up coming changes in license fees. It does not look good for anyone who does not have a large store front, big inventory and uses his FFL as primary source of income.

No name

**A** I told you this was going to happen. All you FFL holders out there better get your ducks in a row. Are you zoned correctly for business? Do you have a state sales tax number? Have you filed Schedule "C" with your 1040 federal tax return? I note that your postmark is in North Carolina. Be advised. You're not a dealer if you are not in compliance with all of the pertinent laws—check with your accountant.

**Q** Some questions for you: A.) Could one of the survival rifles featured in the March issue of *MGN*, if it was not presently registered as a short barreled rifle, have legal length barrels installed and be legal? B.) Is it legal to own one of the Dewat(ed) machine guns that were commonly sold in the 50's & 60's, if it is still in that condition? C.) For those unregistered Marble Gamegetters, Ithaca Auto & Burglars, & other AOW's; would they be legal to own if and when they get removed from the Curio & Relic list if they were never registered? D.) What form and where obtain it to apply to build a suppressor? E.) Once approved to build a suppressor, is it lawful to experiment with different types of



baffles/packing? When the packing eventually needs replacement can the individual (not a Class 2 manufacturer) do it?

I am sure that many other people have some of these same questions; or know someone who found one of these weapons in Uncle Fred's attic.

a Non Mouse

**A A.)** If they have legal length barrels on them, they are not required to be registered. If they don't, they are required to be turned in to BATF to be destroyed. As to how anyone would know the new barrels were a violation, especially since there is no present violation for them to be looking at, I don't know. I advise donating them to a museum. **B.)** That is going to depend on how it was de-watted. If the firearm was legally destroyed according to present definitions, you can keep it without any registration. (More than likely it won't be. Which means it needed to be registered, and can't be now.) Turn it in to BATF, or a museum. **C.)** What would happen, those items would be removed from the NFA as registered firearms and left on the C&R list as regular firearms. I haven't heard of any move to do that, but that is the standard procedure. **D.)** As an individual, you use a Form 1 obtained from your nearest BATF office or copied from the one in the back of your *Machine Gun Dealer's Bible* (blatant forgery). Don't start building it until you have an approved Form 1 returned from NFA Branch, BATF. **E.)** Beep-beep-beep, gray area alert! Technology Branch is holding that each of the parts is a suppressor on it's own. Manufacturers may have extra parts, but if an individual has extra parts, they are supposed to be serial numbered to the suppressor they have. I have written in to D.C. to get some clarification on this issue.

**Q** In keeping with past lists of questions submitted to "The Forms," here is my list of questions involving practices which seem to fall into a gray area (at least in my mind).  
1. Can an individual install a registered sear in a post-89 G3S/SAR8/HK91 and then install a flash hider and pistol grip stock set?

**A. Yes. At least as of today, the MG sear trumps the other restrictions. You no longer have the semi auto that was on the import ban, you have a machine gun. I would marry the sear to the gun so there could be no question about it.**

2. Is there a problem with a pistol grip on a threaded barrel extension? On a semi-auto pistol? If one owns a registered SMG will accept the extension?

**A. There is a potential problem of having an unregistered AOW. Make sure that the front grip is with** (continues)

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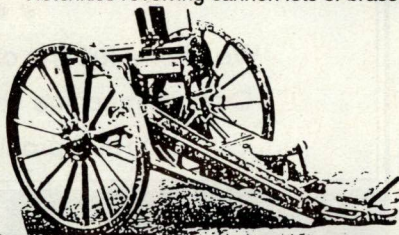
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the machine gun, leave it on it.

3. What's the status of a recently imported pistol (on the C & R list) with an original type, but apparently new manufacturer, stock/holster?

A. It's a short-barreled rifle requiring registration under the NFA. Unless it's been removed from the Act, I'd need the model number to say further.

4. A person has a pre-89 import ban semi-auto rifle receiver. Can it be built up into a pre-89 configuration semi-auto rifle? How about a post-89 American made receiver? A post-89 import receiver?

A. The pre-89 receiver can be made into the pre-89 configuration rifle using U.S. made parts, or parts imported before the ban. Same for a post-89 U.S. made receiver. The post-89 imported receiver can only be made into the acceptable import configuration-Thumbhole stock, etc.

5. Can someone restore a pistol that has been made importable by the addition of adjustable sights or target grips to original configuration?

A. You can physically do it, but you're not supposed to. Meaning—don't do it.

6. Apparently on early import AK's, the trunion was the serialized part. On later weapons the frame is serialized. If the trunion is damaged on an early rifle (like in a barrel change) could a new one be riveted in its place?

A. The frame is definitely the receiver, trunion installed or not. Trunions can be replaced. You cannot obliterate the original manufacturer's or importer's marks and serial numbers. This will need to be handled at the local level with BATF. Write to the local office, since it is not an NFA firearm, and get their answer in writing.

7. What is an individual's responsibility when changing calibers, barrel length, or stock length. Or when building up weapons from registered receivers or installing auto-sears? Basically, what should one do when making changes that differ from the description on the Form 1 or Form 4?

George

A I answered your questions in sequence so here I'm going to address the responsibility question. You are ultimately responsible for your actions in the eyes of the law. Ignorance of the law is not an excuse. Permanent changes in length, barrel length, caliber, or model need to be recorded with NFA Branch.

Questions to:

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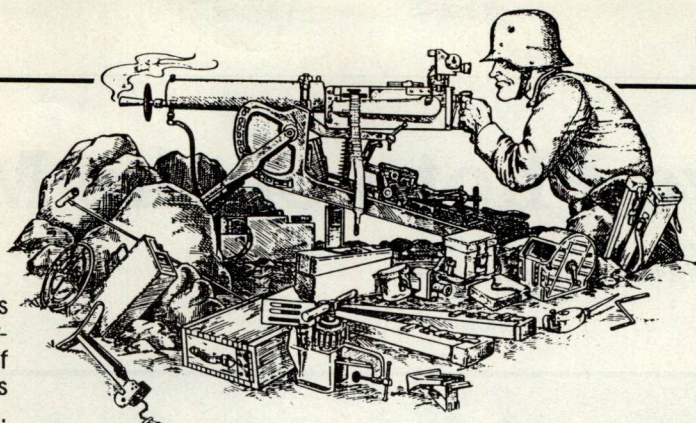


# I.M.A. MAXIM

International Military Antiques Inc. of New Jersey, has recently obtained the largest lot of German WWI Maxim parts available in over 30 years.

Many of these parts and accessories for the 08/08-15, are unusually scarce. Dolf Goldsmith, author of the "Devils Paintbrush", the definitive Maxim book, has inspected and cataloged the shipment: see reference in the parts listing

Item #	Name	Price	XM6	Cloth belt-excellent condition 250 rd. w/brass spacers. Well preserved and available in limited quantity.	\$100.
XM1	Detachable shoulder stock Hinges on lower backplate pin and clips against top handle bracket, very scarce!	\$100.	XM9	08-15 Ammunition Drum-serviceable w/reel. We have a very small quantity of these scarce drums. If you're one of the many 08-15 owners w/o a drum mag., now is your chance! (p. 166 D.P. 2nd ed.)	\$350.
XM2	Feed block extension tray keeps belt straight. Attaches to 08 and 08-15 drum brackets. Highly desirable for the 08-15!	\$125.	XM10	Cartridge case long - used to remove catr. cases from receiver. Fits on sled mount. (p. 187 D.P. 2nd ed.)	\$40.
XM3	Ammunition belt box - similar to MG-34 Ammunition box.	\$25.	XM12	Chamber cleaning stick - angular tool used for cleaning chamber. Fits on sled mount. (p. 187 D.P. 2nd ed.)	\$40.
XM4	Aluminum ammunition belt 250 rd. belt works wonderfully with the 08 Maxim and .303 Vickers MGs. Works well in the 08-15 if an 08 Feed pawl w/o the finger is used. (Devils Paintbrush p. 350 2nd ed.)	\$75.	XM15	Blank firing attachment w/soaking can. Very scarce (p. 194 D.P. 2nd ed.)	\$250.
XM4A	Three Aluminum Belts.	\$195.			
XM5	Steel ammunition belt-250 rd. heavy duty-scarce!	\$100.			



# I.M.A. MAXIM

below. In addition to parts and accessories in the U.S., a quantity of original 08/08-15 guns have been shipped to I.M.A.'s parent company in

the United Kingdom. Some of these guns may find their way into the U.S. in kit form while the majority will be absorbed into the European market. Below is a partial listing of parts and accessories which I.M.A. has in stock:

XM15A	Blank firing attachment w/o can	\$175.	XM22	Belt loader in wood chest w/all tools. Limited supply w/tools! (p. 190 D.P. 2nd ed.)	\$500.
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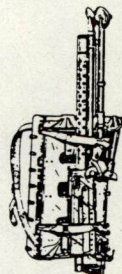
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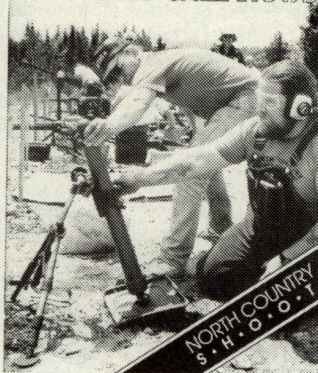
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**LOCATION UNKNOWN.** 13 October 1955. An early Army publicity photo showing the final pre-production model rifle T44E4 that was to become the "U.S. Rifle, 7.62, M14." Note the modified carbine bayonet. Credit: Springfield Armory National Historic Site. Copyright © 1993 **ROBERT BRUCE PHOTOGRAPHY.** *Editor's Note: Robert regrets that he cannot handle individual requests for photographs. However, publishers and documentary filmmakers, etc. are encouraged to contact him for information on use of archive images. Send a self-addressed stamped envelope and details on intended use to **ROBERT BRUCE PHOTOGRAPHY, P.O. Box 482 MGN, Sandston, VA 23150.***



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**The complete history of the Maxim Machinegun** entitled, "The Devil's Paintbrush" - Sir Hiram Maxim's Gun edited by Collector Grade Publications has now been reprinted. The second edition, 367 pp has 532 illustrations, (fifty more than the first edition) and much of the text has been updated with new information obtained during the last few years. This book covers much historical as well as technical information and as such it is of interest to military historians as well as firearms collectors and shooters. It is available, autographed from the author, Dolf L. Goldsmith, Dept. MN, 800 Isom Rd., Suite 202, San Antonio, TX 78216. A limited number of the Special Author's Numbered Editions are available. The price is \$69.95 postpaid. (xsep)

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**AWC Suppressors:** Nexus .45 \$725; Archangel II \$395; Beretta 70S w/Archangel II \$800; Warp 3 \$325. Call Chris (203) 438-6017 After 5pm EST (xjan)

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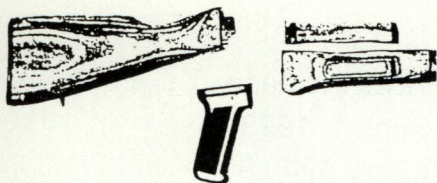
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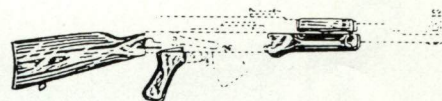


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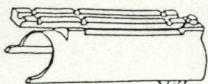
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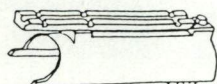
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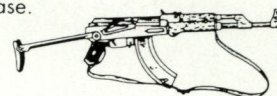
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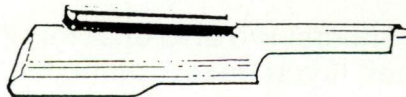
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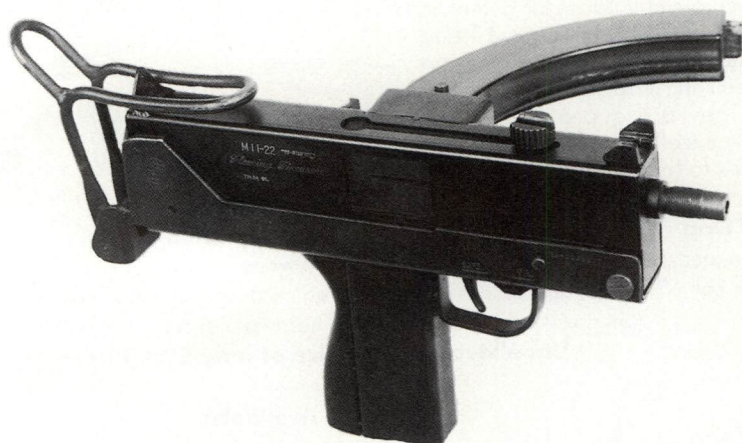
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