

Machine Gun News

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Enhancement:
An
A.D.P.A.'s
Small Arms
Meeting
&
Live Fire
Demo

The M16
Shorty
Dilemma

The
Suppressed
Ruger
15/22
and
Other
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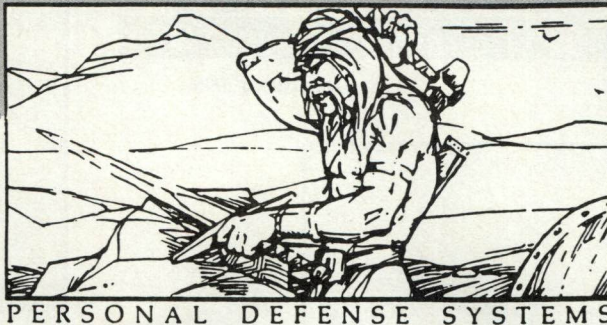
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Class 10



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L.M.O. would be pleased to sell your NFA Collection or inventory for you. Of the 2200 Class 2 and 3 dealers, over 2/3 are on our mailing lists. We have many collectors and investors who will review your inventory.

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16. Auto Ord. Corp. .45 Reg. MG Model 45A, stock included
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18. Colt AR-15 converted to M16, reg. rec. gun by Fleming, **very good cond.** full stock in .223
19. MP40 on a Wilson tube, 9 mm
20. Thompson in .22 caliber, rare, **very good cond.** has 3 mags
21. MK 760 with suppressor, 9 mm. This is an original "Fruithurst" gun w/suppressor, works good, **very good condition**
22. Springfield SAR-48HB with Bipod, a **REAL** beauty
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25. Mil Arms, Powder Springs M10 smg. 45 cal.
26. S.W.D. M11 A1 smg. in .380 cal
27. Inland Arms XP-A smg 22 LR
28. Gwinn Firearms, .223 cal Bushmaster smg
29. Blaylock Gun Works, Ruger MK II suppressed pistol in .22 LR
30. SWD suppressor for M11 in .380 cal
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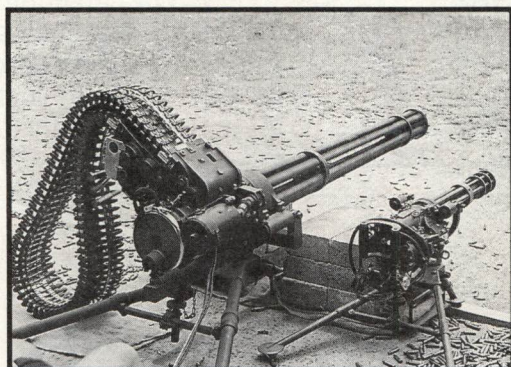
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Class 10



MACHINE GUN NEWS

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December 1993



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On the Cover: Jonathan Arthur Ciener fires the M134 Minigun. Photo: Dutch Hillenburg

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.

Advertising rates

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

Dutch Hillenburg

Production Manager

John Ford

Advertising Manager

Mary Geoffrion

Circulation Manager

Lucy Bright

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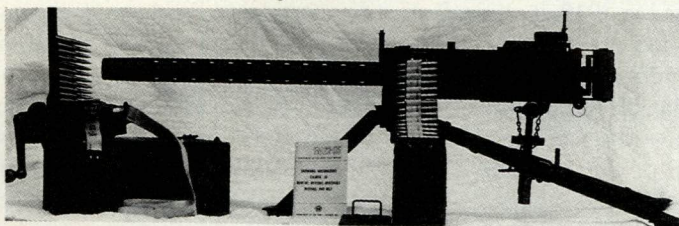
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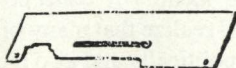
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	10,000/\$ 350

Incoming

Knob Creek, Worth the Trip

I just returned from the weekend that I spent at Knob Creek Gun Range. It was probably the best investment in traveling I have ever made. This was my first visit, my buddy and I are already planning our next pilgrimage to Knob Creek. We will probably need to bring a truck, next time, to haul all the ammo, parts, etc. that we buy. Thanks to *Machine Gun News* for a great magazine. Also thanks to P.J. the Range Officer who took me on a personal guided tour of the firing line. Keep up the good work in this fine magazine.

J.W.

Collins, MS

Clinton Jokes & Insults Nonproductive

Perhaps I may make a few political comments, which I hope will be taken as constructive criticism. I noticed the nasty Bill Clinton jokes in the current issue. I am not impressed by this fellow's performance to date, not at all, but I wonder if the personal slights are worthwhile? There are those who are personally bitter towards him, especially Vietnam Vets, who would be hard put to feel any other way. (I was in the Army, but not in Vietnam.) I absolutely believe in the 200-years-practiced interpretation of the Second Amendment, and none of this rubbish about "that just means the National Guard." No offense, Guardsmen and Guard vets, but "National Guard" means "gummint," and we've already seen how much we can trust the "gummint"; just ask any Vietnam vet who has read any of the historical accounts based on the Pentagon Papers!! There can be no mistake that the government—federal, and not always but often state and local—is engaged in an effort against our right to keep and bear arms (driven by both hysteria and hypocritical bigotry, in and out of "the media"—and just watch how fast a journalist would scream at the idea of the tactics currently employed against the Second Amendment being utilized to attack the First). Whether Bill is really dumb enough to believe that the current approach will work is arguable. (I do not believe that he's a commie or a closet Nazi, but that doesn't hold up well as a certification against having his—well, let's say his foot in his ear.) It does not appear that anyone believing in Gun Control has bothered to

stay awake through their high school history classes. What the gun control people want to do was tried in 1918, it was called the Volstead Act and Prohibition and the Eighteenth Amendment—and probably some other unprintable things besides—and it made things worse, starting with the mob VIOLENCE of the twenties. (The prevention of violence is allegedly the reason behind all this "gun control" stuff.) But I wonder whether the rude jokes—which it is your/our right to engage in if you/we see fit—really accomplish anything. That leads me, after all this round-the-mountain, to my point. We're not accomplishing anything, except possibly the reverse of what we seek: the protection and preservation of our home—America, warts included, we are not perfect people here—and the rights which some very smart cookies put in place 200-plus years ago, when this country (legally and formally speaking) was started up, by those same smart cookies, who had observed the failures and shortcomings of the systems of government—absolutism, mostly—in Europe. Let me identify a concept here: mastur——. (I realize that many of your readers may be politically and also morally conservative, and may not appreciate the word being spelled out; we all recognize it.) What is it? Basically, "it accomplishes nothing, except that it feels good." We engage in the rude jokes because they make us feel good. But do they accomplish anything? I don't think they do, except that when a Clinton "loyalist" hears such remarks—such as trading Hillary Clinton for a dog—they are going to feel the hostility behind such a joke. When you send out hostility, what do you get back? Hostility! It seems to be pretty obvious that we are in a struggle, regardless of the opposition's motives, good or bad. It seems equally obvious that one of the things you don't do is make your opponent get madder than he already is—"Make your enemy angry, make your enemy stronger"—unless what you do makes you even stronger still. The current plague of attacks on the Second Amendment are just that. But that plague will not be turned back, any more than the Black Death was, by witchcraft. (Neither Patton, nor Herr von Clausewitz, nor Rommel, nor Sun Tzu, nor Robert E. Lee can be described as a drooling witch doctor

screaming magic chants: they used their brains to discover what had been demonstrated to be the truth about war, and put those truths to work for themselves.) We all, I think, remember the old song about sticks and stones and names. We would gain nothing by violence—violence by somebody in the 1960s against Jack and Martin and Bobby are part of the reason why we're in this fix today. But phone calls and votes, and campaign contributions, and letters—courteous, rational ones, not just furious insults—to our politicians and to the media are the sticks and stones on which a democracy is built. Thanks for reading this. (I realize it's a little long winded.) I hope it will be suitable to publish, that it will have some useful ideas. And I hope you pick up a couple hundred thousand more subscribers, you are probably on a narrow profit margin doing something that needs doing!

Thanks, and best wishes.

Sincerely,

M.F.

Oceanside, CA

Needs Help Finding Class III Folks

What would you suggest is the best way to go about finding another dealer within about 50 miles of me, through *MGN* magazine. I understand about everyone wanting to be somewhat discreet about Class III business but there must be some way I can locate a dealer in my area through your magazine. I have my Class I license for my store but I am new to this world of Class III with only a Ruger AC556 to my name and I am the only one that I know of so far in my area that shoots full auto's so I don't know anyone that can refer me to a new dealer. The dealer that I bought my Ruger from never mentioned any other dealers or any of his customers so I was always on my own. Now he has gone out of business and moved away and I'm stuck. Any ideas at all would be appreciated.

Sincerely,

M.T.

Dubois, PA

There are several effective ways for readers to make contact with Class III dealers and fellow shooting enthusiasts in their area. One way is to run an ad in *MGN's* classified section. Attending nearby

machine gun shoots and gunshows is also another good way to meet dealers and shooters. Lastly, if all else fails, you may use your FFL to obtain a Class III item on a m 4 tax paid transfer. Good Luck.

United States Senate
Washington, D.C. 20510
Dan Coats
Indiana

October 1, 1993

Mr. Mike Burke
Goshen, Indiana 46526

Dear Mike:

Thank you for contacting me about your concerns regarding recent proposals by the FBI to support various gun-control provisions. I appreciate hearing from you.

As you know, former FBI Director William Sessions officially recommended that the Justice Department endorse a wide range of gun control proposals, including:

- Mandatory licensing and training of all handgun owners.

- Immediate enactment of the Brady Bill.

- A complete ban on the transfer, importation, transport or possession of semi-automatic firearms.

- Reallocation of FBI resources to increase regulation of federally licensed firearms dealers, manufacturers, and collectors.

You will be pleased to know that during his confirmation hearing, FBI Director Louis Freeh stated that this was not his policy. Consequently, these proposals have died with the firing of William Sessions as director of the FBI.

Again, thanks for getting in touch with me. Please do not hesitate to do so again as I welcome your input.

Sincerely,
Dan Coats
US Senator

Everybody that believes the above please send me \$10!

Mike

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

Incoming
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Machine Gun News - December 1993



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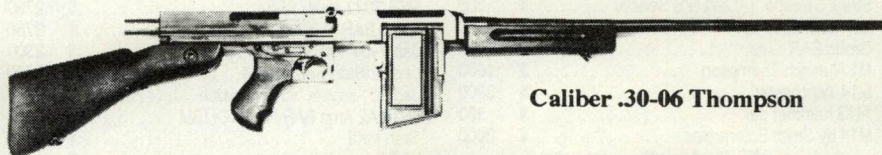
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NON GUN (106 Recoiless w spotter on mount nice)	\$ 4000

CURIOS & RELICS

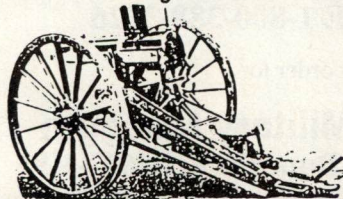
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Connecticut: Assault Weapon Ban Update

On October 1, 1993, a new law went into effect in Connecticut. The "assault weapon" ban, Public Act 93-306, prohibits the future sale of both machine guns and listed "assault weapons." This law also requires present owners of these firearms to obtain a "certificate of possession" from the State Police.

On October 13, A Coalition of Connecticut Gun Owners and the firearms manufacturer Intratec (Miami, FL), filed a civil suit in Litchfield Superior Court challenging the "assault weapon" ban passed by the state. Wesley H. Horton, principle attorney for A Coalition of Connecticut Gun Owners and a leading authority on the Connecticut Constitution, also filed for an injunction to stay (postpone) the law. A hearing to respond to the injunction is scheduled for November 15, 1993.

Who's behind the suit:

Connecticut individuals

+

NRA ILA

+

Second Amendment Foundation

+

**The Coalition of Connecticut Sportsmen
 A Coalition of Connecticut Gun Owners**

For more information contact:
The Coalition of Connecticut Sportsmen
Legal Defense Fund, P.O. Box 2506,
Hartford, CT 06146
Phone: (203) 245-8076

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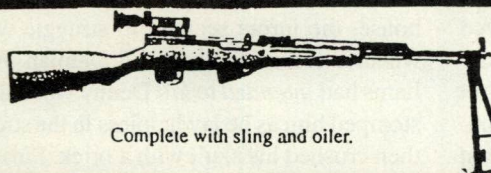
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by KEN CARTER

Scattered Shots

A radio talk-show host called it "home cooking."

He was referring to the Justice Department investigation of the Justice Department...and Attorney General Janet Reno...blameless in the fiery deaths of 85 Branch Davidians following a 51 day standoff.

The word "whitewash" has been prominent in discussions of the findings; "Enough to re-do the Capitol Building and most of the monuments in Washington," grumbled an acquaintance. "A whitewash," responded a couple I had just met who live in Arlington, across the Potomac from DC. The "w" word crops up routinely on radio talk shows, and even appeared in an Associated Press release published the day after the results of the investigation were made public.

Will this "official" version—that the FBI was justified in assaulting the Mt. Carmel compound with tanks and teargas, and that David Koresh and his followers were solely responsible for the inferno that claimed their lives—be allowed to go unchallenged? Or will Congress respond to public demand for a probe conducted by investigators without a personal stake in the outcome? At this point, that remains to be seen.

There is evidence to suggest something less than a position of complete impartiality on the part of the Justice Department...and that this attitude may have filtered down from the White House, itself.

In marked contrast to the in-house report exonerating Reno and the FBI, an earlier Treasury Department probe—conducted with outside help—trashed the Bureau of Alcohol, Tobacco and Firearms for its part in the fiasco. The difference in the ways the two investigations were conducted is not too surprising, actually, when you consider that the Clintons have felt all along that BATF is "too soft" on gunowners, and have been wanting to abolish the bureau. The duty of enforcing gun policy could then be passed to a more "hardline" agency, the most likely can-

didate being...guess who?...the FBI. The plan also calls for inclusion of the Drug Enforcement Administration to form a National Police Force, similar to the Soviet KGB, which would be directly answerable to gun-hating General Reno and her bosses.

Given this, it would have been somewhat inconvenient to find that FBI agents in Waco seriously erred, and that their behavior was inappropriately rash, resulting in a heavy loss of innocent civilian lives.

Neither of the reports made any mention of what appears to be an orchestrated effort by both the ATF and FBI—with the help of a gullible and/or collaborative media—to justify their actions by "demonizing" David Koresh and the Branch Davidians. Throughout, the goal seems to have been to convince the public that members of the religious group were inherently evil, and that whatever befell them, they deserved it.

At the outset, we were told that Koresh engaged in bizarre sexual practices, and that he abused children (child welfare officials deny this). And, of course, he and his followers had all those firearms, with which they cold-bloodedly "ambushed" federal agents who were simply attempting to serve a search warrant.

In the months that have followed, stories have been planted with newspapers and wire services at regular intervals, and carried with little or no attempt at either verification or rebuttal, alleging that the group presented an immediate threat to the neighbors with whom they had lived peaceably for more than 50 years; had plans to attack and slaughter "nonbelievers" in nearby Waco; and had joined in a mass suicide pact, setting the fires that destroyed their home. One of the latest "revelations" claims that the children were clubbed, shot and stabbed to death before being consumed by flames. Further, we are told that "evidence exists" that, in the end, David Koresh was killed by one of his lieutenants when, after ordering the compound torched, he attempted to flee to save his own life.

Eleven surviving members of the group face a January trial date on charges stemming from the February 28 shootout. After losing the Randy Weaver case—and with it, a lot of credibility—the Feds need to win this one badly. Look for more startling "facts" to come to light between now and then as they attempt to further seduce public opinion.

The court hasn't ruled, of course, but no matter. Where the Government is concerned, the official position from the beginning seems to have been that the Branch Davidians were "guilty as charged"; they have already been tried, convicted, and...in most cases...executed.

Aside...

(I have exercised my not-inconsiderable influence to have the Branch Davidian trial moved from Waco to my hometown, San Antonio, so that I may more completely, and comfortably, cover for MGN readers. Stay tuned...)

L.A. Law

(Oct. 20) The jury today delivered what will likely be the final verdict in the case of Reginald Denny, the Los Angeles truck driver who was beaten senseless by two goons before the eyes of a horrified nation.

There never seemed to be much doubt that the two defendants were guilty; their brutal act, which left Denny near death, was captured on videotape, and there were dozens of witnesses. Nor did there seem to be any question of Denny provoking the attack, as there was in the case of Rodney King. Denny's only mistake, apparently, was to drive through the wrong neighborhood during the height of the LA riots.

Yet, as supporters of the two suspects chanted and waved signs outside the courthouse, the jurors seemed to struggle with whether Henry Watson and Damian Williams had *intended to kill* Denny when they stomped him as he lay helpless in the street, then crushed his skull with a brick. Finally, at the urging of the judge to reach a decision—and to the shock of most spectators, including, it appeared, the accused—they voted to acquit both men on the more serious charge of attempted mur-

der. The two were convicted only on a handful of lesser counts, most of them misdemeanors; a remaining felony count against Watson was dismissed.

(So far, there has been no indication that the federal government plans to race to the rescue of Reginald Denny's civil rights.)

One Los Angeles resident I spoke with was outraged at the verdict, and felt that jurors had caved in to fears that a "wrong" finding might trigger more rioting. She also expressed concern about the message such a decision sends. "If 'might makes right,'" she said, "the next step is anarchy. Los Angeles will become another Washington, DC."

She and her boyfriend have signed up for shooting lessons at a local range.

Best Quote

Anti-gun Congressman Charles Rangel (D/NY), a vocal supporter of US intervention in Haiti, commenting on the status there: "Only those with guns are safe."

MacNeil-Lehrer, Oct. 18

Reminds me of a cartoon I saw a few years back following another violent takeover somewhere in the world (take your pick) in which unarmed citizens were slaughtered. It depicted two grave-diggers putting finishing touches on a fresh hole in an already-crowded cemetery. Beneath it, the caption: "The meek shall inherit the earth."

Worst Quote

Still amazed at media types who have trouble distinguishing between semi-auto and automatic weapons? One of the local talking heads just read a story about a police department and its new "service revolver"...while showing footage of a Model 17 Glock.

If that wasn't bad enough, a couple of lines later, he referred to it as "the Glock semi-automatic revolver."

Speaking of police, Italian cops busted a massage parlor recently...to discover one of their own, a female officer, moonlighting as a hooker. For a premium, she'd keep her uniform on!

Kevlar Implants?

And did you hear the (also true) story about the Florida exotic dancer who took a bullet to the boob during a fracas outside a club where she worked? Police say her breast implant slowed the slug, and probably saved her life.

Richard Davis, call your office.

"Lucy Fund" Update

In the October "Scattered Shots," I mentioned the plight of MGN's resident sweetheart, Lucy Bright, whose "new" '67 Mustang was essentially totaled last Summer when rock-hurling vandals smashed all the windows and badly damaged each of the car's body panels. She paid \$3000 when she bought the car, and from the estimates, it looks like it is going to take about \$2500-plus to put it back like it was.

She carried liability insurance, but hadn't been able to afford collision and comprehensive (have you priced it lately for a 17-year-old?), so none of the loss was covered. She had "planned to drive very carefully," she said.

Miss Bright, meet Mr. Murphy.

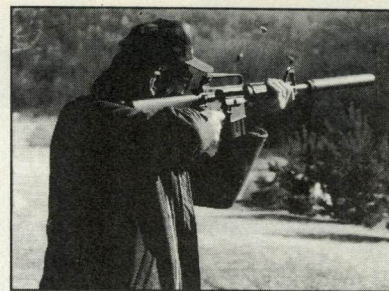
The column announcing a "Lucy Fund" to help her out was a surprise, and she was overwhelmed when checks, along with cards and phone calls offering sympathy and encouragement, started coming in. It was the same thing at Knob Creek, where it seemed like everybody there stopped by the MGN booth with a kind word, and maybe a contribution.

Lucy asked me to please pass along her heartfelt thanks to each of you who wrote, called or came by for a visit, and to give you a status report. At last tally, she says, the "Lucy Fund" had gone over \$600, and this has helped her get all of the broken glass replaced. By the time you read this, they should have started hammering out some of the dents. She says she's hoping to have her baby back on the road by Christmas. (When it's finished, I promise to run a picture.)

She asked me to tell you one more thing, something all of us at the magazine have known all along:

"Machine gun people are the greatest people in the world!"

—Ken Carter



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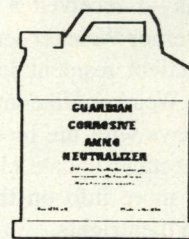
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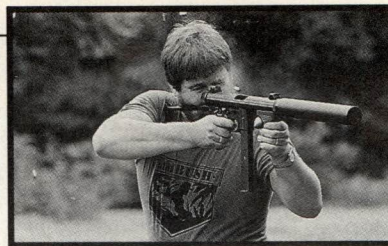
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Raffica

by DAN SHEA



"Cry 'Havoc!', and Loose the Dogs of War"
- Shakespeare

I've got a bunch on NFA firearms, and interesting info for all, but first I have something to say:

Let the cry ring out through Rafficaria. Tell the truth about what you see going on in this country. If you want to keep your freedom, and your firearms, stop backing up from the debate. No more compromises. I figure we are going to have the Brady Bill enacted soon, and possibly some other foolish, ineffective gun control measures. Ineffective in the eyes of those of us who live our lives worried about criminals and sociopaths trashing this country that many of us fought for, and still fight for as police officers, or patriots, or parents or plain citizens who don't like the direction things have taken. VERY effective for those who know that gun control is the first step to total control. Remember that all of these anti-Second Amendment people are on record as saying that the Brady Bill is a good starting point. Also, remember that the GCA 1968 was taken almost verbatim from the Nazi gun control laws. If this is their starting point, where are they going? As elections come up, remember the names of those who are selling us out.

Connecticut—I received a copy of a letter that Governor Weicker sent to a concerned Connecticut resident in 1975. As you can see, Weicker, like most liberal politicians, sways with the breeze. Please read the Connecticut update elsewhere in this issue, for more info on their valiant effort to regain their rights.

Dear Friend, (dated August 14, 1975)

Many thanks for taking the time to express your concern over various gun control proposals before Congress.

Like every American, I am concerned with the misuse of firearms in this country. However, most proposed gun control legislation addresses itself to the philosophical rather than the practical aspects of the problem. Emphasis is placed on the inanimate object rather than on the individual in whose hands the firearm is likely to become a menace to society.

Solutions that penalize law abiding citizens and legitimate gun owners in the

name of some ill defined greater good do not have my support. I will continue to direct my efforts toward legislation that meaningfully curbs crime.

Thank you again for sharing your views.

With kindest regards.

Lowell Weicker, Jr.

United States Senator

Yayyyy! Clap-clap-clap! Standing ovations! Here's a politician who tells it like it is! Everybody—vote for this guy.... What? You mean, HE is the one who led the charge for the Connecticut Assault Firearms Ban?

People, remember this; we have no hope as a nation until our leaders are held accountable for what they do with our Rights. As long as the wishy-washy, gutless trend-followers are at the helm, this country will continue a downward spiral. Every BATF agent who goes against what he knows to be right and participates in the Waco cover-up, every cop who watches his superiors speak "for him" about a need for gun control instead of scumbag control, every free American who sees a politician or "famous person" (like Jane Fonda) advocate dis-arming the citizens while privately owning firearms, drives another nail in the coffin that the Bill of Rights is being shoved into. Stand UP, for ALL of our sakes. These hypocrites need to be driven out of the shadows and have some light shown on them. They will wither and become irrelevant in the light of truth. I hope you Connecticut patriots can make some use of this letter. Please make sure everyone you know is aware of Weicker's old position, the one he used to get elected.

"Solutions that penalize law abiding citizens and legitimate gun owners in the name of some ill defined greater good do not have my support." - Senator Lowell Weicker, Jr. 1975

Massachusetts Governor William Weld has pulled a similar, more recent turnaround. He was elected as a friend of the Second Amendment, and has just recently started mewling and simpering about an "assault weapon ban," among other things. Is there something in the water in southern New England? You Massachusetts firearms owners—are you going to start a counter-

assault or are you going to run north to the "Free Zones." (I won't throw stones, it's where I live!) If you can't get the newspapers to tell the truth, then get together and buy majority stock in one of the major papers in Boston—fire the smart little creeps that won't report the REAL news, then hire some fire-breathing truth tellers to write copy. The day that someone sends me a copy of the Boston Globe where page one details the people who have saved themselves from harm using a firearm, details the hypocrisy of the anti-firearms groups, exposes Governor Weld as the two-faced con man that he is, and has someone accurately quote the authors of the Bill of Rights in regards to what the Second Amendment is about, I will invite all of you who pulled it off to a Backwoods Maine Banquet, Machine Gun Shoot, and General Hoo-Haw. We can dine on Mud-Baked Roast Moose Nose, Garlic-Buttered Native Trout, Barbecued Corn, Coals-Cooked Podatoes, Fiddlehead Ferns, Jacobs C Baked Beans and, of course, Blueberry Soup, while firing our exotic and historical favorites.

On I rant and rave, because the fax machine is full of atrocities. One Stephen Grant, Rafficarian from Virginia, sent me two clippings from the local newspaper in Washington, DC, (With his renewal for next year, I might add—a smart move and good investment, at that). The first was a notice of a "Stop the Violence" benefit dinner for the Center to Prevent Handgun Violence, to be held at the Sequoia Restaurant in Georgetown on 19 October 1993. Here are the names of those participating in this travesty: Beau Bridges, Marvin Hamlish, Ann Landers, John Hechinger, Marian Wright-Edelman (Chair of Children's Defense Fund), Sen. Howard Metzenbaum, Meredith Baxter, Sarah Brady, Bill Cosby, Candice Bergen, Angelica Huston, Governors Douglas Wilder, William Donald Schaeffer, Jim Florio, and Lowell Weicker, Mayors Richard Daley and David Dinkins, David Geffen, Donna Shalala, George Lucas, Willard Sc Gregory Peck, James Witmore and DC Chief of Police Fred Thomas. The Major contributors to this benefit are: Home Box

Office, Inc., EMI Music, International Paper, MCA Foundation, Inc., National Education Association, and NBC.

Mark their names in your little black books. If you don't believe that there is a conspiracy in this country to undermine the Second Amendment, then please find another explanation for the cozy quarters that the members of the media, the gun control groupies, and members of our government are keeping. Pull the contributors off of your investments lists. I knew that the National Education Association would be there, disarming the citizens totally fits their radical socialist agenda. Same for NBC and Home Box Office. But—International Paper?

Steve's other clipping was an advertisement for the law offices of one Jack H. Olender and Associates, P.C. (One Farragut Square, 1634 Eye St, NW, Washington, DC 20006 (202-879-7777). Mr. Olender and Associates have offered their services Pro Bono (without fee) to the first victim or family of a victim who will let Olender represent them to sue the manufacturer, importer, or dealer of an assault weapon for serious injury or death under the DC Assault Weapon Strict Liability Law. NOBODY HAS SUED UNDER THIS NEW LAW, BECAUSE, AS WE ALL KNOW, THE SO-CALLED "ASSAULT WEAPONS" ARE NOT A PROBLEM! These bottom-feeders have to advertise and fight to find anyone with a problem! Allow me to quote from the ad:

"The killings of innocent babies is the sickest form of social malpractice. Enough is enough! Now is the time to fight for our children and our city. We pledge to do our part to take back the streets and playgrounds of our city.

Under the DC code, the manufacturer, importer, and dealer of assault weapons—Uzi, Beretta AR-70(SC-70), Colt AR-15 and CAR-15, Street Sweeper, etc. are strictly liable for damages to innocent victims and their families. But, to date, nobody has sued and the streets and playgrounds are stained with the blood of innocents. The Police Chief has promised to make the necessary information available. Let's stop the flow of blood. We must enforce the law. Hit the gun profiteers hard in the pocketbook with multi-million dollar verdicts against them, and drive out the guns and killings."

Olender ends with the following—*Justice, justice, you shall pursue if not us. Who? If not now, when?"*

These folks have to be either totally

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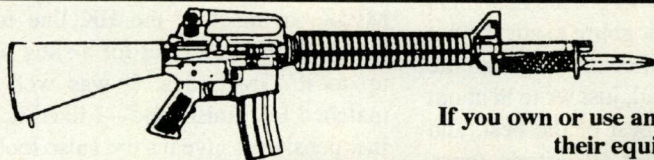
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stupid, or fellow travelers with the disarmament of the public crowd. Then again, it could be modern legal greed—we don't care whether what we do is right or wrong as long as there are millions in legal fees. It seems pretty clear cut to me—true believers grasping at straws to prove their ideology. Why don't they look at the facts—or just ask a street cop. He'll tell them that legal firearms, in the hands of law abiding Americans, are not the problem—the liberal policies of our judiciary are! Send the nice man a letter, if you are so inclined. Probably won't help, you can't reason with a closed mind, but at least you can let them know exactly WHY they are wrong. Punish the criminals, don't disarm the rest of us.

Mr. Olender, I truly doubt that you would know Justice if she walked into your office and introduced herself.

Off of the soap box, now, and on with the Rafficarian true interest. I have had many people ask me, as an RKI (Reasonably Knowledgeable Individual) what the best machine guns are, by category. I am not going to get foolish about this by naming things you can't have or won't ever see. I invite all Rafficarians to write in on this subject, and on the second subject of what the ideal machine guns would be if we, who use them, could get the designers to build them. I am just going to stir the pot here and I welcome all comments. Call me a prophet or a bonehead, just write in about your opinions of the best of the best, and here are my picks after all criteria (cost, availability, reliability, parts, accuracy, repairability, controllability, ease of training, accessories available) are analyzed:

AVAILABLE IN THE U.S.:

TO CIVILIAN USERS:

Machine Pistol.....	M11.....	.380
SMG.....	MP5 A3.....	9mm
Assault Rifle.....	M16 A1.....	.223
Belt-fed.....	1919A4.....	.308
HMG.....	M2HB.....	.50

FOR LAW ENFORCEMENT:

Machine Pistol.....	Glock 18.....	9mm
SMG.....	Beretta PM12-S.....	9mm
Assault Rifle.....	M14.....	.308
Belt-fed.....	M60.....	.308
HMG.....	none	

FOR MILITARY:

Machine Pistol.....	Glock 18.....	9mm
SMG.....	M3-A1.....	.45
Assault Rifle.....	M16 A2.....	.223
Belt-fed.....	M60.....	.308
HMG.....	M2HB.....	.50

OUTSIDE THE U.S.:

TO CIVILIAN USERS:

Machine Pistol.....	93-R.....	9mm
SMG.....	Steyr MPi81.....	9mm
Assault Rifle.....	HK-32.....	7.62x39
Belt-fed.....	FN-MAG 58.....	.308
HMG.....	M2HB.....	.50

FOR LAW ENFORCEMENT:

Machine Pistol.....	93-R.....	9mm
SMG.....	Beretta PM12-S.....	9mm
Assault Rifle.....	HK-32.....	7.62x39
Belt-fed.....	FN MAG 58.....	.308
HMG.....	M2HB.....	.50

FOR MILITARY:

Machine Pistol.....	93-R.....	9mm
SMG.....	Steyr MPi81.....	9mm
Assault Rifle.....	AKM.....	7.62x39
Belt-fed.....	FN-MAG 58.....	.308
HMG.....	M2HB.....	.50

MY PERSONAL CHOICES

FOR BEST OF ALL TIME?:

Machine Pistol.....	93-R w/comp.....	9mm
SMG.....	Czech ZK-383.....	9mm
Assault Rifle.....	Beretta AR-70.....	.223
Assault Carbine.....	Flmg HK 52-A3.....	7.62x39
Belt-fed.....	FN-MAG 58.....	.308
HMG.....	M2HB.....	.50

For best belt fed that isn't listed here because of politics, see *Soldier of Fortune* Vol. 18 No. 9, Sept 1993, where their Tech Editor, (Peter Kokalis) has an article on the South African offering, the SS-77 GPMG, a .308 (7.62x51). Other than our usual and normal conflict over the quality of the M60 (I like them, Peter HATES them), I respect his opinion on most issues. His assessment of the SS-77 makes me truly envious that he got to shoot it.

Some neat stuff I have seen lately:

S & H Arms' Curtis Higgins (918-272-9898) showed me some trick stuff down at Knob Creek. First was a pin that replaces the forearm takedown pin on an SP-89 or MP5K, or most of the HK line for that matter. It has an eyelet for a sling to hook up to it. Great idea. It was well made, matched HK finish, and—I liked it. It was inexpensive so give it a try. I also looked his suppressed MKII pistols over and have one coming to check it out.

Jon Ciener let me try his 1911 .45 .22 subcal kit, which he said is forthcoming. I have been promised a kit to test, and if I don't get one soon, I am going to take the one he has on the tables.

The 'Creek had a much expanded show area, and I couldn't believe the people who were there. It was a veritable Who's Who of the Class 3 business. I'll get into it in another issue.

A correction to the Rafficarian who answered the question on parkerizing—from the book *Blueing and Browning* by R.H. Angier—Publisher Sam Worth, later bought out by Stackpole, page 145, Ch 7, Arms and Armor press. The U.S. owner of the patent on "Parkerizing" at the turn of the century was Parker Rustproof Co, in Detroit Michigan, which is still in business. Thanks to the person who called.

I've got a stack of questions that we are going after next month, I would like to

show a sample of the mail we have gotten so far on the "Mystery Tripod" in last months Raffica. To date, I have had over fifty responses, all correct, not counting the numerous calls from Woody English who keeps threatening to sneak up behind and whisper "Bill Clinton" if I forget to put his name here. Actually "Hillary" or "Janet Reno" would be more terrifying.

#1. The mount in question is for the Jap Type 92 Medium M.G. Production was begun in 1932. It had a Hotchkiss feed system in 7.7 X 58 semi rimmed case firing a 203 grain metal jacketed projectile at 2300 fps. The 2 round lugs on the front legs (bottom) of the mount were for the insertion of a 1 to 1 1/2 in. dowell, the rear leg has a square hollow assembly into which a handle bar is inserted, all three are to carry the weapon and mount. The elevation is a maximum of 18" and is accomplished through the turning of the crank at the front of the mount. The front of the gun mounts by use of the spring loaded pins (they swing over the lugs on the 92). The elevation arm is secured by use of a captive pin on the underside of the receiver. Thanks for the memory jog.

Bill Daley

#2. I believe your mystery tripod is made for the Japanese Type 92 heavy machine gun 7.7 caliber. The tubes on the lower front legs are for the insertion of carrying poles for rapid movement of the weapon. I have just recently become a subscriber to your magazine and greatly enjoy it. Hope ya'll enjoyed Knob Creek, wonderful wasn't it!

William Burch

#3. The tripod is of Japanese manufacture, made for the Japanese TAISHO-14 machine gun tactics. The tripod legs had sockets on them into which carrying handles could be inserted so that a three man team could carry the gun.

Terry Dantel

#4. RE: Mystery tripod in Nov 1993 issue. The pictured tripod appears to be that for the JAP Type 3.

Bob Bower

The correct answer, is of course, the (1914) Taisho 3rd year Heavy Machine Gun Tripod, adapted for the Type 92 machine gun (same tripod). Thanks for the response, guys. I'll pick something else unusual for the next issue.

Questions to:

Dan Shea, c/o MGN

PO Box 759, Hot Springs, AR 71902

The Forms continued from page 53

Q Just curious, are the operational briefcases for the MAC series or H&K series subguns considered AOW's with the NFA? If so, how can that be since when they were made they weren't serialized?

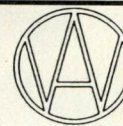
P.D.

A Operational Briefcases are the carrying briefcases that allow you to discharge a firearm from within them. You use an external trigger device to actuate the firearm trigger. Some are fairly elaborate, such as the highly desirable original AM-180 briefcase that fits a fat suppressor and a laser aiming device in it! These "James Bond" devices are more common than you might think, and have been carried by many police departments on dangerous undercover operations. The only ones that require registering as Any Other Weapons (AOW) by themselves, are the ones that will fit firearms that are only made semi-auto. An example—a briefcase that fits a 1911 .45 pistol would require registration. A briefcase for a MAC, MP5K, or other machine guns, even though it will fit the semi-auto versions, does not need to be registered if you don't have any firearms that fit it. If you have a machine gun that fits it, you don't need to register the briefcase. If you have the machine gun and semi auto that fits it (ex-MP5K and SP-89, or MAC-10 and M-10 semi) you don't need to register the briefcase—provided that you never put the semi-auto into it. Keep the machine gun with it so there is no question. If you have the briefcase and a semi-auto that fits it but no machine gun, then the briefcase should be registered, whether or not the firearm is in the briefcase. There are some who question these regulations because the briefcase, by itself, does not discharge a shot. The definition of an AOW includes the phrase "Capable of being concealed on the person, from which a shot can be discharged through the energy of an explosive." (Yes, a black powder pen gun would have to be registered.) The "concealment" part is the qualifying factor. A case against the categorization can probably be made pretty easily in court, but as of today, the BATF considers these conditions to apply. The above guidelines, gone through with NFA Technology Branch several times over the years, should suffice to keep you in compliance.

Questions to:

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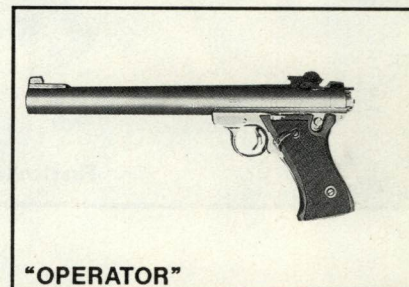


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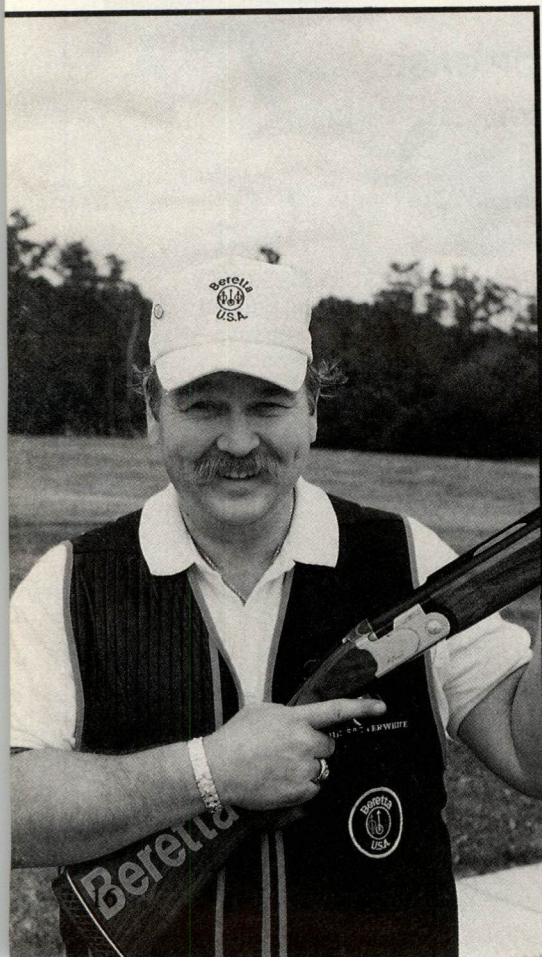
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First look at Calico's prototype semi-auto/pump action shotgun which was developed for the US military.

Noted exhibition shooter John Satterwhite displayed his scattergun shooting prowess.



A.D.P.A.

Small Arms Meeting & Live Fire Demo

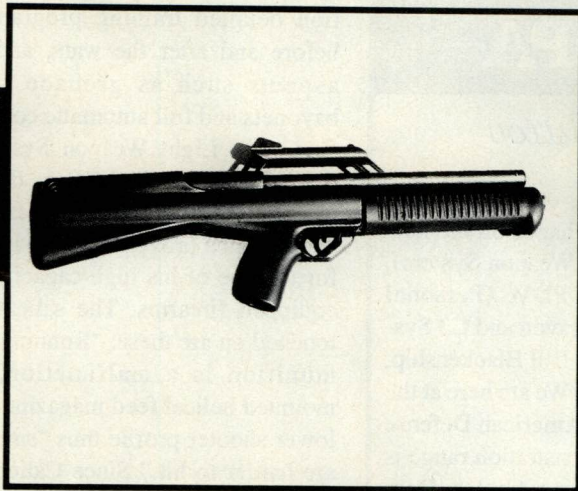
Story & Photos by Robert M. Hausman

Soldier Enhancement - The Key to the Future, was the theme of the American Defense Preparedness Association's (ADPA) Small Arms Systems Division annual meeting, exhibition and firing demonstration held 13-16 September, 1993 in Virginia Beach, Virginia. The ADPA, a non-profit organization, has as its goal the bringing together of industry and government to develop defense equip-

ment. A wealth of new products and technology was found at this meeting.

Conference Program

In addition to the exposition and live fire demos, a full conference program was presented. Among the more noteworthy offerings was a report from Heckler & Koch's Volker Kurtz and John Meloy regarding that firm's progress in development of a 40mm automatic grenade launcher, a



Above: Neostead, a South African firm, test fired its pump action shotgun with twin tube magazines holding a total of 13 rounds.

Right: Colt's Richard DeMilt, law enforcement sales manager, prepares to give a full-auto demonstration.



project which was begun in 1992.

Hoped to be a possible replacement for the US MK 19, a successful (laboratory) prototype has been developed. Utilizing an aluminum housing to achieve significant weight reduction, all guiding rails are steel and bolted to the housing, eliminating the need for welding. Blowback operated and firing from an open bolt, the prototype weighs 27 kg. (59.5 lbs) while its ground mount weighs 23 kg (50.7 lbs).

The pawl operated feeding system, whose feeding direction can be changed from left to right side, is said (by HK) to offer the advantages of smaller size, lower rate, and lower production costs. The charging handle is at the rear along with the trigger and fire selector lever for semi and sustained fire. Currently being tested is an optical sight which interfaces with night sights and a range finder.

In the 21st century weapons arena, a paper was presented on the developmental progress of the army's High Power Acoustic Beam (HPAB) program. The goal is to develop a unique class of small arms and crew served Directed Energy Weapons (DEW) for personnel incapacitation and hardware disruption, explained John P. [Name] and Dr. Timothy M. Rynne of Scientific Applications & Research Associates, Inc., Hunting Beach, CA.

The HPAB technology base has developed a compact, transportable in-

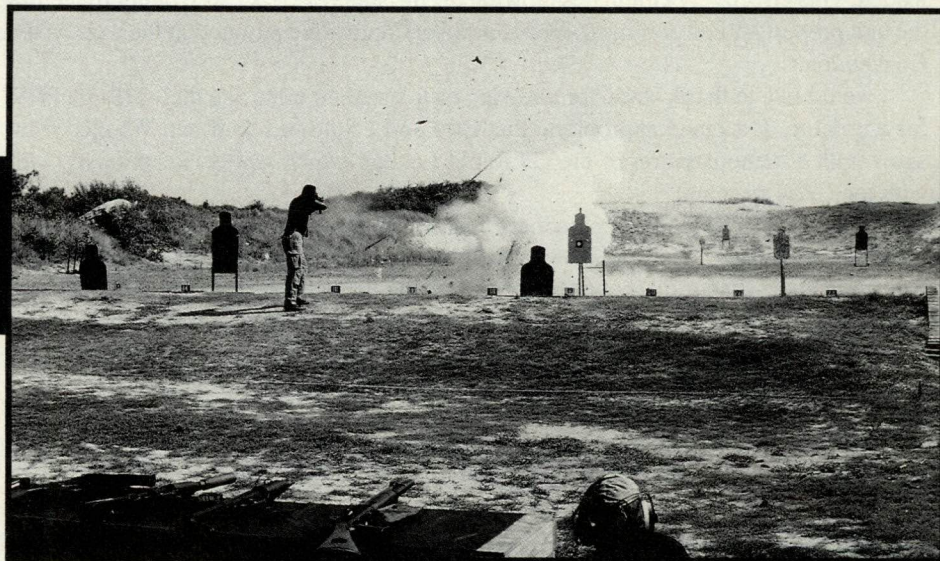
Machine Gun News - December 1993

frasonic source which uses pulsed combustion to generate high power infrasound with average output powers near the kilowatt level. This technology is scalable to very high powers.

A more down-to-earth but no less controversial presentation was made by Evan Marshall on the topic of Handgun Ammunition Effectiveness. A co-author of the Paladin Press published Handgun Stopping Power: The Definitive Study, Marshall discussed the origin and methodology of his study as well as current available data in handgun ammunition, some rifle calibers

(5.56 and 7.62mm) as well as 12 gauge buckshot and slugs. Now a law enforcement sales representative for Sturm, Ruger & Co., Inc., Marshall delved into the relation of data from the famous Strasburg Study and the Police Marksman Association Study to his own work.

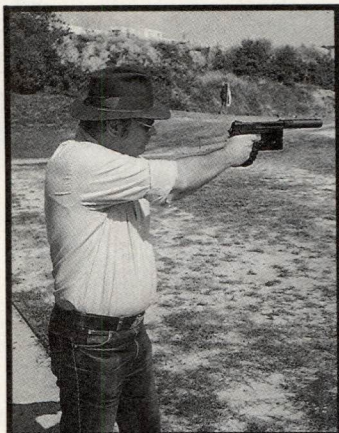
A moving narrated slide presentation with period music on "The Greatest Battle Rifle Ever Devised" (as Lt. George Patton described the M1 Garand Rifle), was presented by Robert S. Bruce, of Robert Bruce Photography, Sandston, VA. Employing historical photos, posters,



HK's Wayne Weber hits an exploding target with spectacular results during the live fire demo.

Other Goodies at ADPA

by JAMES L. BALLOU



Jim Ballou fires the H&K OHWS.

It was a bright 90 degree day, on a Navy Seal Range in Virginia Beach, with hands on the new COLT OHWS (Offensive Handgun Weapon System), Ruger's MP-9 and the FN P-90 PDW (Personal Defense Weapon). Thanks to Paul Craven and C3 Systems I am among such luminaries as Bill Blackenship, Evan Marshall and John Satterwhite. We are here at the invitation of James Frigiola and the American Defense Preparedness Association. The demonstration range is located at the Fleet Combat Training Center, Dam Neck, Virginia (FCTD-LANT). This is the East Coast training facility for the Navy Seals and other special operations groups. The range was in immaculate condition;

this was to be expected since it was managed by Marine Chief Warrant Officer O'Niel and Sergeant Hunnicutt.

Reed Knight was there with his superb products. Dressed in a gray suit Reed Knight gave a prone demonstration of his Knight's Armament SR-25 (Stoner Rifle) and hit all targets from 100 to 600 meters.

Fabrique Nationale also chose this demo to unveil their new M-240 G, a PIP product on an improved MAG-58. They should have had Kent Lomont fire a few 250 round bursts just to prove it is the best G.P.M.G. in the world. I could hear Peter Kokalis cursing as SACO demonstrated their PIP M-60.

H&K demonstrated a full line of weapons. Of particular interest was a new "wet" suppressor, mounted on an MP-5, they literally dunked the weapon and suppressor in a tub of water. After shaking the weapon it was fired on target. Whiffs of steam emanated from the suppressor. It was very effective. H&K says the suppressor is good for about sixty rounds.

The H&K "wet" suppressor demonstrated on the MP-5 was in fact made by Reed Knight. It is made to be fired in the wet environment encountered by Navy Seals, great idea for Navy Seals, no "goop."

H&K is out of the suppressor business. Their major supplier will be Reed Knight. In fact, both H&K and Colt will be using Knight's suppressors for their Offensive Handgun Weapon Systems. The pistol suppressor uses a simple spring loaded clamp that resembles a muffler clamp. The MP-5 unit utilizes a new twist off mount, again spring loaded. This effectively eliminates blowing off the suppressor because of not tightening the unit properly. Reed promised several new and innovative products at the next ADPA Convention.

I would like to thank H&K for allowing us to use their table and their MP-5K PDW for our demo. It seemed appropriate that Paul and I followed their act. We closed the show with a demonstration of the C3 Rapid Loader, which works exceptionally well with the H&K systems.

The American Defense Preparedness Convention is an annual event held in different locations around the US. The show is for professionals by professionals and caters to American and Allied military personnel. The firing demonstrations were scheduled and arranged by James Frigiola of Olin Ordnance. Companies interested in demonstrating their products at the next ADPA Convention can contact:

Mr. Frigiola c/o American Defense Preparedness Association

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The convention format consists of an exhibitor's show and the live fire demonstrations. Live demonstrations can be arranged without being an exhibitor at the show.

charts and war art paintings, the presentation detailed training programs, testing before and after the wars, and describes aspects such as grenade launchers, bayonets and full automatic conversion.

Calico Light Weapon Systems' president, Michael K. Miller, detailed the "Advantages of Calico's Helical Feed Concept," which proved a persuasive argument for the use of his high-capacity magazine equipped firearms. The salient points he touched on are these: "Running out of ammunition is a malfunction," the top mounted helical feed magazine results in a lower shooter profile thus "smaller targets are harder to hit." Since Calico's arms do not eject to the side, possibly striking team members in the eyes or face, downward ejection means — "Your partner shouldn't have to eat your brass." Miller added that better balance and weight distribution results from a top mounted magazine since the operator places the weight of the ammunition towards the body.

Renewed interest in the shotgun as a combat weapon is being shown by the US Army and Marine Corps. As a result, Calico has developed and had on display an early prototype 12 gauge 3" magnum chambered, semi-auto/pump action shotgun with a 15-round helical feed magazine. The offers downward ejection, a bayonet lug and the right-side magazine release can be operated with just one finger. The prototype utilizes a Benelli action at present. A commercial version may be offered in the future as well as a full-auto model.

It is not generally known that the acronym "Calico" stands for California Instrument Company, which was formed in 1982 to design and build specialized instrumentation for the petroleum industry. In 1985, the first working 100 round helical feed .22LR carbine prototype was successfully tested. An entire family of firearms has since been developed around this new design, which has resulted in the firm's being awarded 12 US and several foreign mechanical firearms related patents.

Live Fire Demos

Saco Defense, Inc. displayed and fired its new M60E4 7.62mm light machine gun for the first time in public. Improvements over the previous model (M60E3 Enhanced) include an 18 percent weight reduction, an improved gas cylinder system, tritium marked front and rear sights and improved bandoleer hanger and container, according to John J. McCuen, Jr., Saco's manager of domestic and interna-

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tional marketing. In development are M60E4's for mounted turret applications, McCuen says and added that Saco is the sole supplier of the M60 series of weapons to the US Military.

While not involving Title II firearms, the high point of the live fire demos was when renowned exhibition shooter John Satterwhite amply demonstrated the amazing feats the shotgun is capable of performing in the hands of a skilled shooter.

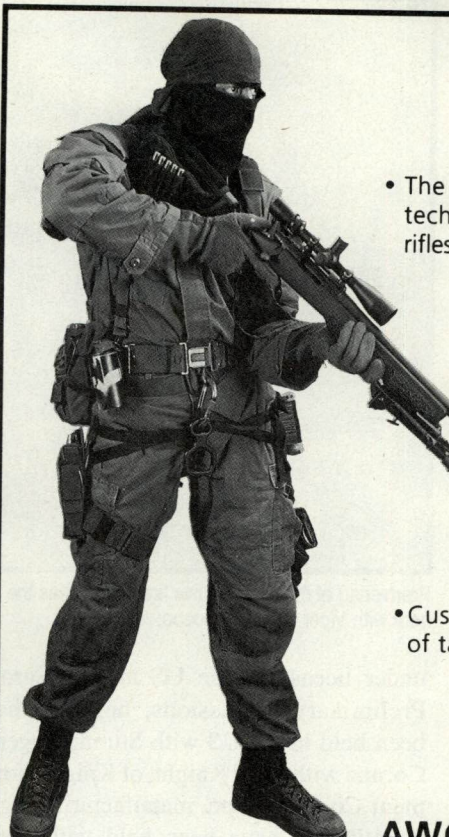
Currently associated with Beretta USA, Satterwhite is a three-time US International Skeet Champion, former captain of the US Skeet Team at the Pan American Games and the '76 Olympic Shooting Team and was the high average leader in International Skeet in the US for seven years. His message, to the buyers of military hardware present, was to not overlook the shotgun which he showed to be a highly effective, short range weapon.

A great deal of interest was shown by A.D.P.A. attendees in another shotgun prototype, this one being a 12 gauge pump action bull-pup design employing a novel twin tube feeding system which was shown by Neostead, a South African firm. A super compact boltless piece, it offers selective or alternate feed twin tube 13 shot capacity.

The twin magazines allow the user to carry and selectively chamber two different types of loads, such as shot and slugs or gas and less lethal rubber projectiles, for example. Slots on top of the magazines allow visual monitoring of shells. Its compact size and bottom hull ejection make it ideal for use from vehicles and confined spaces. The integral carry handle houses open sights. The barrel sitting below the magazines allows a straight line stock design which is said to result in negligible muzzle lift. Indeed, during the firing demonstration, Neostead representatives showed remarkably quick round to round shot recovery while emptying the 13 shells in the twin magazine tubes.

External components are constructed of high strength polymers giving the piece a futuristic look which may doom the piece as an "assault weapon" if it is ever marketed in the US. Its dimensions are: length 27.1 ins. (690mm), height 9.6 ins. (245mm), width 2.1 ins. (54mm), barrel length 22.4 ins. (570mm) and weight 8.6 lbs. (3.9 kg). An ultra compact model with barrel length of 550mm and nine shot capacity is under development. Heyns Stead, Neostead's director, says he is looking for manufacturers to produce the gun

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20 cases (20,000 rounds)	105.00	2,100.00
25 cases (25,000 rounds)	100.00	2,500.00

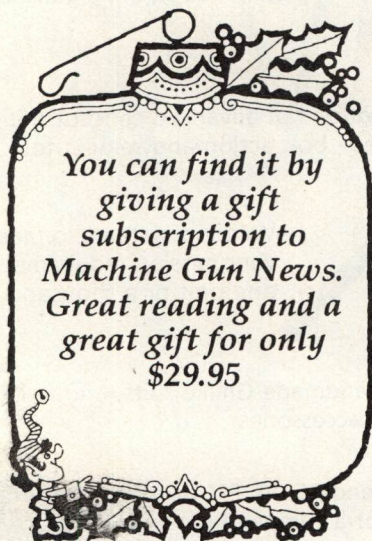
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under license in the US and in Europe. Preliminary discussions, he adds, have been held in the US with Sturm, Ruger & Co. and with Reed Knight, of Knight Armament Co. In Europe, manufacturing rights negotiations have been held with Steyr-Daimler-Puch AG.

The Exhibition

Israeli Military Industries (IMI) will be increasing its presence in the US with the addition of Michael E. Bussard (former marketing manager of Sturm, Ruger & Co.), to its US contact point - IMI Services, USA, Inc. Bussard, who has joined as marketing director for commercial products, was present at ADPA although not as an exhibitor. He has already negotiated on behalf of IMI for a new importer with a large warehouse located just south of Kansas City, Kansas which will be used, in part, for the increased importation of IMI ammunition and components. Industry sources indicate IMI is looking for a US manufacturer for the Uzi semi-auto series which are now banned from importation.

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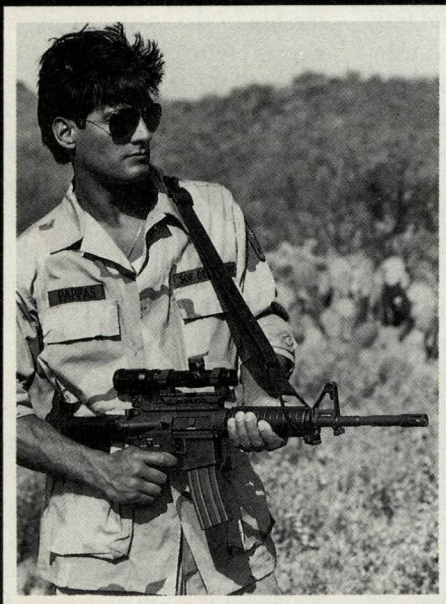
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The M16 Shorty Dilemma

by JOHN NORRELL

After reading numerous letters and requests for information in the *Rafica* column for the last several years regarding the "shorty dilemma," i.e., failure for the short barreled AR-15/M16 to reliably function, I decided I would share the results of my research and experience in dealing with the problem with your readers. After examining at least a thousand of these problem rifles in the last thirteen years, I came to the following conclusion: Although gas port size and timing are factors in the proper functioning of these weapons, the real issue revolves around the Colt barrel vs. the non-Colt barrel. Before I go into the barrel situation I need to clarify the gas port size and timing issues.

The length of the barrel is not important, only the length of the barrel in front of the front sight or gas port. The length of time that the bullet is allowed to remain in the barrel once it passes the gas port is the factor that determines reliability and the gas port hole size. I have noticed that factory Colt barrels have different gas hole sizes. The following are the hole sizes I have observed and measured in Colt barrels. 16 1/2" (.063"), 14 1/2" (.063"), 11 1/2" (.081"), 10 1/2" (.093"). These hole sizes are for Colt barrels only and may need to be increased in size to allow non-Colt barrels to function. These numbers came from removing the front sights on many hundreds of Colt barrels over the years and checking hole sizes. This is not to say that once in a while a Colt barrel would have a different size than listed above, however, in most cases an atypical size would be larger, not smaller, than the sizes listed. As the barrel length in front of the gas hole (front sight) is shortened, the gas hole size must increase to allow more volume (not pressure) of gas to travel via the gas tube to the bolt carrier. The increase in hole size is disproportionate to the amount the barrel is shortened. The 16 1/2" and 14 1/2" barrels have plenty of barrel in front of the gas hole size so size does not have to normally increase as you go from 16 1/2" to 14 1/2" but, as you begin to shorten the barrel the hole size increases dramatically.

Timing refers to the distance or delay in

time in regard to the bolt closing and fully chambering a cartridge vs. when the hammer is released by the auto-sear and strikes the firing pin. The goal in timing is to allow the hammer to hit the firing pin as late as possible to give the bolt plenty of time to fully chamber the cartridge. The timing on a Colt M16 is approximately .100". This means that the bolt is about 1/10 of an inch (.100") from being fully closed when the auto-sear is tripped by the bolt and releases the hammer. The timing can be set less than .100" on the M16 (and the later the better) but it is best to not get too close to zero to avoid the auto-sear from being unable to trip, especially if you like to swap out parts on your weapon with non-Colt parts. Timing is very easy to check by placing the shank of a numbered drill bit through the ejection port between the bolt carrier and the rear of the barrel. Start with a drill bit around the .100" size. Place the selector on auto and slowly allow the bolt to move forward. You may want to hold the trigger down but this is not necessary. When the auto-sear trips the hammer you will still hear the click. If you do not trip the hammer with a particular size drill bit, you will need to try a smaller diameter one. If the particular drill bit you are using does allow the sear to trip the hammer, then go to the next size up and progress in sizes until the sear will not trip. The idea is to find the point in which one size bit will allow the sear to trip and the next larger size drill bit will not. This method allows you to determine the timing distance within a couple thousandths of an inch. On an original all Colt M16, the timing distance would not normally need to be reset. With the non-Colt M16, the tripping distance may be outside the .100" mark. The non-Colt firearms may need to be re-timed due to several factors such as components not meeting Colt specs and the improper placement of the auto-sear pin hole. The auto-sear hole should be .565" directly above the dead center of the selector hole. The position of the auto-sear hole should be determined from the selector hole up, not from the top of the lower receiver down. The auto-sear flapper should not protrude more than .150" above

the top of the lower receiver. This dimension is pretty critical especially on the Colt 9mm SMG. Any amount over the .250" mark can allow the sear to contact inappropriate areas on the bolt carrier and result in binding, breakage, and possible early tripping of the hammer on full-auto. I recommend a minimum height of .230". Below this height, the bolt carrier may not contact the sear and in some cases the carrier will crawl up over the sear and either snap it off if you are lucky, or crack the lower receiver around the sear hole.

Since we are on the subject of sears, I will also share experiences on drop-in auto-sears and auto disconnectors before I discuss procedures to correct timing, drill gas holes, and the non-Colt barrel situation. Although drop-in auto-sears for sale have become very difficult to find these days, the "auto disconnector" is still somewhat available. The drop-in auto disconnector (aka; auto connector and lighting link) should not be confused with the drop-in auto-sear. The drop-in auto-sear functions with the standard full-auto M16 hammer, trigger, disconnector, selector, and bolt carrier. The drop-in auto-sear merely takes the place of the military auto-sear which is pinned into the lower receiver. The AR-15 converted with a drop-in sear functions like the M16 in regard to cyclic rate and selector positions. The auto disconnector is a stamped sheet metal device that drops into the AR-15 lower and was designed to function with the original semi-auto trigger, disconnector, hammer, selector and bolt carrier. The big drawback to the auto disconnector was that it allowed the weapon to function full auto only. Since the device required that you use your semi-auto selector and other parts, you had full auto functioning only. A colleague, Scot Bell and I, recently designed a set of select fire parts to function with the auto disconnector. This seven piece kit (selector, trigger, disconnector, hammer, etc.) allows the auto disconnector to function semi-auto and full-auto with standard M16 selector.

As many of your readers have suspected, I appeared to have cornered the market on drop-in auto-sears a few years

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ago. I did go on a campaign to acquire large quantities of drop-in auto-sears. In doing so I purchased and sold more brands of drop-in sears than you could imagine. It appears that everybody and their brother has manufactured and registered drop-in sears from various materials including body putty. Many of these sears would not function, much less actually fit into a receiver, but they were registered with serial numbers. Basic repair required manufacturing new sear toggles and reshaping the registered bases. Timing and sear height was a problem with most of these sears, however, the procedures to correct these problems are basically the same as with the Colt type pinned in sears. It should be noted that the area machined out at the rear of the lower receiver that holds the drop-in is very different among the different brands of lower receivers. Drop-in sears that will fit a Colt AR-15 will usually fit an Eagle, E. A., etc., since some of these actually have a wider dimension than Colt's; however, the SGW Olympic Arms lower, for example, has a more narrow opening than Colt and must be "cleaned up" to allow most drop-in auto-sears to fit. Not many are aware of this, but the drop-in auto-sear was and is designed to actually fit onto the rear lug of the upper receiver rather than fit the lower receiver. The positioning of the sear on the rear upper lug is the factor that should determine the trip distance, since the base of the sear can be any size as long as it fits into the lower receiver. However, a drop-in sear with a loose fit on the upper lug with a sear base fits perfectly into lower and will not move around, will also function if timed properly. Since the rear upper lug dimension is more consistent among the various upper receiver manufacturers than their lower receiver dimensions, less problems with functioning are encountered when the fit of the upper rear lug is addressed.

I know many of you have sears that just drop into the lower receiver and you close the two receiver halves and your weapon functions, but this is atypical and usually indicates a borderline loose fit sear. A properly fitted drop-in sear that has the same forward and rearward toggle travel as a Colt pinned in auto-sear will not allow the upper and lower receiver to fully come together if the sear is placed in the lower receiver rather than on the upper receiver rear. When a properly fitted sear is placed in the lower receiver, the toggle will hit the bolt carrier preventing the receiver halves to fully close. This is exactly what happens

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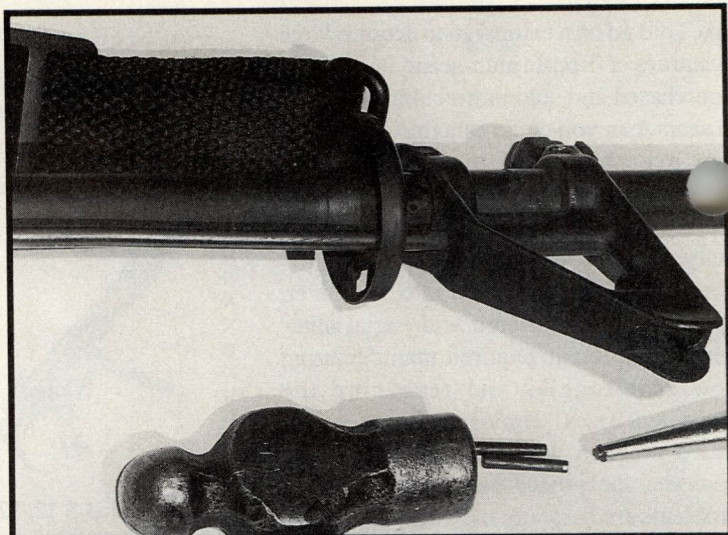
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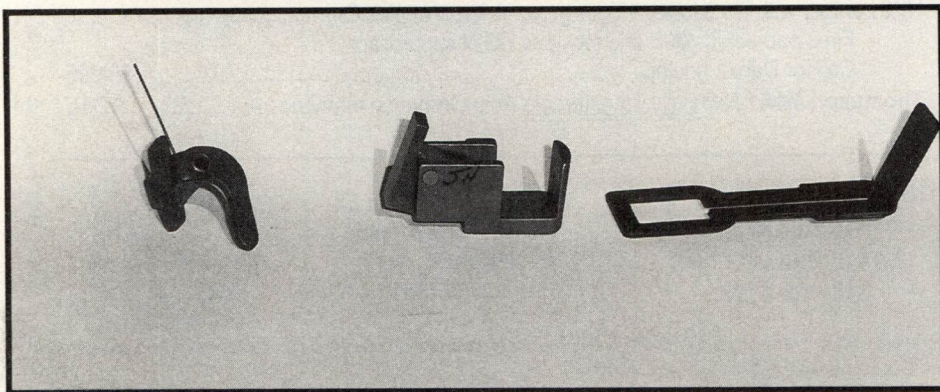


on a Colt M16 if the selector is on auto when you try to close the halves. The Colt sear has a leg on the sear so when the selector is placed on semi the sear is moved forward to clear the bolt carrier. The drop-in auto-sear does not have this leg, therefore, the toggle must be pushed forward with a credit card or thin screw driver as you close the receiver halves. If the drop-in sear is placed on the upper receiver rear lug and fitted snug, then the toggle can be pushed forward to clear the tripping area on the bolt carrier. This is a primary reason the sear should fit the upper lug properly. An allen set screw can be placed in the back of the drop-in sear so it will remain fixed to the lug rather than fall off when the weapon is opened. The Colt lug thickness from

lem as many of you have found out. This barrel supplier also states that the cyclic rate is faster on the shorty M16 type weapon so the timing must be delayed (decrease the trip distance). In my opinion, these types of explanations are just an attempt to pass the problem back to the customer and make him feel that it must be his fault that the



Easy access to the gas hole by driving the sight pins out and twisting the front sight forward does not require you to remove the gas tube or sight.



From left to right, original military type sear, drop-in auto sear, & auto disconnect (lightening link). Also could be considered the order of preference or desirability.

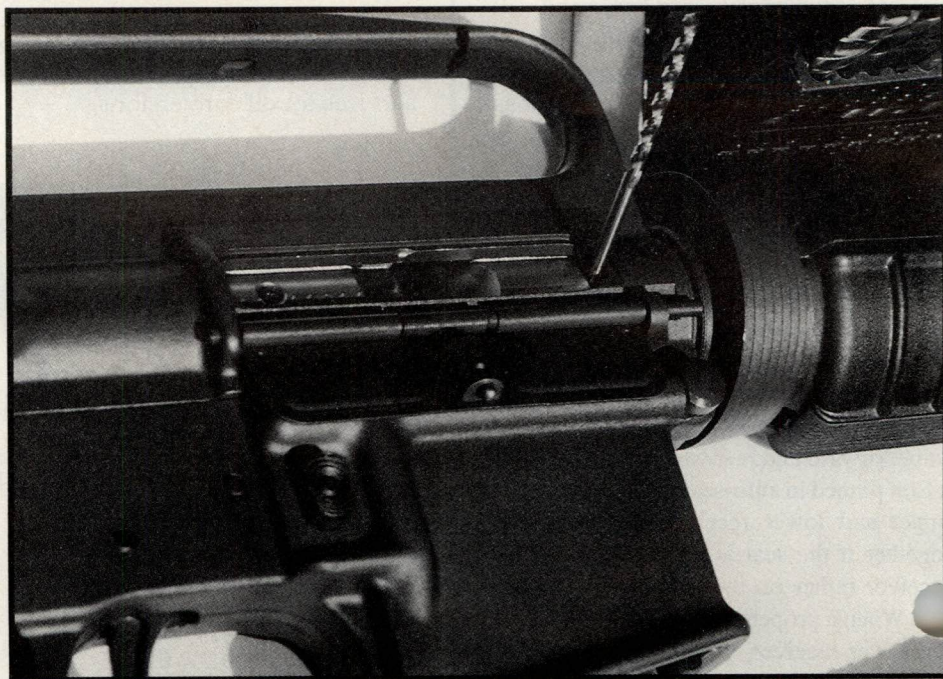
front to rear is .450". Many of the non-Colt upper receivers have lugs that are smaller or larger than Colt. One brand of non-Colt upper receivers has a lug that is actually tapered and is thicker on one side of the lug than the other.

Many of you have noticed the very poor manufacturing quality control when you have purchased some brands of non-Colt uppers only to find that the upper receiver will not fit on your Colt lower without forcing the rear take down pin in with a hammer or mallet. One particular manufacturer actually states that you may need to "fit" their upper receiver if you want it to fit properly on your Colt lower.

One particular barrel supplier tells customers that their timing must be off when the supplier receives calls complaining about why their shorty barrels won't function full auto in the customer's M16. The barrel supplier tells the customer to heat and bend the auto-sear forward to set the timing closer. This premise is sound only if the timing was wrong to start with. This will not solve the typical shorty barrel prob-

firearm will not function. I think this response from the supplier is due primarily to their own frustration in not being able to deal with the problem.

Let's look a little closer at what this supplier is recommending. Think about what you are doing when you delay the hammer from being released by the auto-sear. First, if the cyclic rate increases, the bolt is traveling faster. The faster moving bolt chambers the cartridge more quickly than a slower moving bolt. If your rifle is timed at the correct distance of .100" then the faster moving bolt will actually give the hammer more allowable time to hit the firing pin. The faster cyclic rate actually decreases the need to bend the sear and time it under .100". Secondly, the biggest support to contradict all the misdirected advice and recommendations is the fact that Colt does not time their M16 rifles any differently than their M16 carbines and commando



Proper placement of numbered drill bit shank to determine the tripping distance.

weapons. This fact says a lot about the so-called need to time a full length rifle differently than a shorty carbine. I suspect that those individuals that have re-timed their weapons by bending the sear and the shorty weapon started functioning properly actually had a good shorty barrel and timing outside the .100" mark to start with. In my experience this is the exception not the standard situation.

Now to the issue of what I see as the cause to the actual functioning problems. First, let's define what type of functioning problems are usually reported. Most complaints center around four basic malconditions; 1) failure to fire a chambered round (light primer strike), 2) failure to extract, 3) failure to eject, and 4) failure to feed. In my experience all four of these conditions can be related to one part, the barrel. I did not come to this conclusion easily but only after spending much time handling many hundreds of these weapons with similar conditions. I noticed that the vast majority of weapons received that did not have Colt barrels would still not function properly even when gas port hole resizing, and other problems were repaired, replaced, or re-fitted. It was also noticed that the vast majority of Colt or non-Colt weapons that had Colt barrels did function properly once timing, porting, and other problems were resolved. Once a Colt or non-Colt weapon was correct in all other aspects, the shorty problem was resolved simply by placing a factory Colt barrel on the firearm. In 99.9% of these firearms, reliable full-auto functioning occurred. There have been a few exceptions where I must assume other problems with the firearm existed but I was unable to determine the problem. Eventually, this situation became so obvious that I stopped taking in weapons to repair for the "shorty condition" if they did not have a Colt barrel.

The final conclusion I have come to is that there are significant differences between Colt and non-Colt barrels. In my opinion, it does not mean a thing when a barrel supplier says their barrels meet military specs. The proof is in the shooting.

I do not claim to be a barrel expert, but I certainly have come to various conclusions regarding these non-Colt barrels. The most likely conclusions regarding why the vast majority of non-Colt shorty barrels do not function are chamber dimension problems which includes incorrect chamber reamer size and chrome plating problems.

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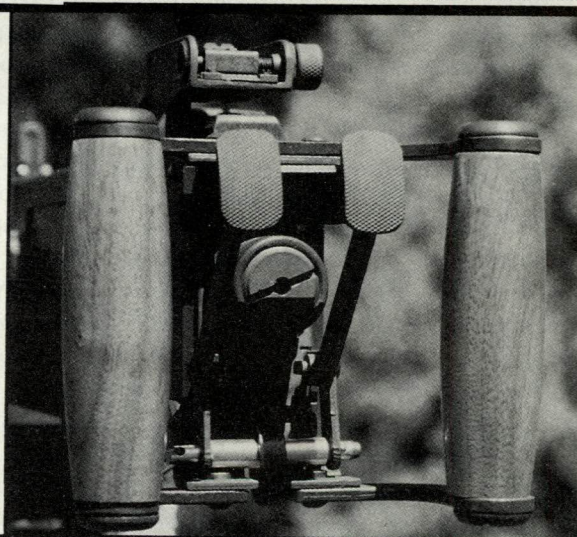


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Head spacing on the AR-15/M16 barrel is actually part of the manufacturing process and is primarily determined by the distance between the barrel locking lugs and chamber. The locking lugs on the bolt plays the final role in head spacing. Loose head spacing can cause a failure to fire (light primer strikes). Since head spacing checks out on the majority of Colt and non-Colt barrels, I must assume that this is not the answer to the problem. Incorrect chamber dimensions may be the culprit. It is well known that machine guns or semi-autos, bolt actions, and revolver chambers in the same caliber usually have different chamber dimensions to accommodate the cartridge and allow ejecting and extracting. Machine guns usually require a slightly larger chamber to allow rapid functioning whereas a bolt action utilizes a tighter chamber since accuracy is the main concern. This tighter chamber on a bolt action is why you will find two extractors on many bolts in bolt action rifles. An example of a machine gun having a larger chamber than a semi-auto chambered in the same caliber is the MAC 10 .45 caliber SMG compared to the standard .45 ACP chamber. The chamber in an original MAC 10 SMG is .019" larger than the standard chamber in the .45 caliber Colt type 1911 pistol.

I am under the impression, from reading various sources, that when the original M16 type weapon was being developed the chamber size was a big concern and various attempts were made to determine the correct size needed for reliable full-auto functioning. In addition, I must assume that allowances in the chamber size must be made for the chrome plating. The chrome plating process must be precisely controlled in order to not get the plate too thick and the plating must occur in a uniform thickness. Chamber dimension problems in non-Colt barrels can be supported by several factors:

1. After applying a micrometer to cartridges fired in various non-Colt barrels I have concluded that the plating is not consistently controlled in many of these barrels.

2. The stainless shorty barrels are the most likely ones to function properly. I must conclude that this is because there is no chrome plating to take up space and plate-out, however, it appears that the chambers are still tighter than military specs.

3. There is one non-Colt barrel manufacturer that apparently recognizes

this condition and if you return the barrel they will "open up" the chamber to military specifications to allow reliable full auto function. This tells me that the manufacturer already knows that the chambers are too tight for full auto functioning. I assume they use a tighter chamber in their barrel for better accuracy. The tighter chamber will allow the weapon to function on semi-auto but after about 4 to 5 shots on full auto, malfunctions start to occur. I could understand their use of a tight chamber on their match barrels but why would you purposely put a tight chamber on an 11 1/2" barrel when you must assume that it will be placed on a full auto weapon. I would surmise they are polishing the chrome chambers to increase their size rather than running a reamer through the chamber since the chrome in the chamber would be much harder than the reamer. Unfortunately, polishing is not a controlled process and can again result in inconsistent chamber dimensions.

The solution to the problem is simple. Buy a Colt barrel. I have never seen a short barreled all Colt carbine that did not function, assuming all other parts were properly functioning and the barrel had the correct gas port hole size. In my opinion, you are better off taking a Colt 20" barrel and getting it cut down to a shorty configuration. It is a project and requires the front sight to be relocated and pinned but in the long run this is the best overall route to go.

Once you have a Colt barrel and you cut it down to a short length (I recommend 11 1/2" as the shortest), you will methodically need to determine the correct gas hole size for your weapon to function properly. Before drilling a new gas hole, it is absolutely necessary that all other parts in the weapon function perfectly. If your weapon will not function perfectly with a standard length Colt barrel, you must resolve this issue first. It is critical that all other malconditions be corrected first. There are many other conditions, usually associated with non-Colt parts that will cause the four failures I listed earlier. The test barrel for this should be Colt since non-Colt barrels are not consistent enough to use as the standard. Many non-Colt barrels function only because the weapon has been altered in other ways to compensate for the barrel such as shortening recoil springs or drilling very large gas holes.

A methodical approach in drilling the gas hole is to gradually open the hole in size. This is accomplished by using a set of

numbered drill bits in increasing sizes. Drive the two tapered pins out of your front sight. Leave the gas tube attached. Pull the front sight forward and just twist it to the side to expose the gas hole. Drop the shaft of various drill bits into the hole to determine the present size. Drill the hole the next size up, re-position the front sight, drive the tapered pin back in and test fire. Shoot several brands of common ammunition. Especially on the 10 1/2" barrel, you will notice as you get close to the correct size that the weapon will start to function reliably on a particular brand or two. This means your gas hole is very close to the correct size and the next size drill bit will probably allow the other brands to function. Beware that you don't have some odd ball ammo that requires the gas hole to be much larger than what it takes to shoot common ammo. The hole sizes I previously listed should only be used as a guide. You should not drill your barrel to the size listed unless you work your way up to that size.

The shorty M16 at the 10 1/2" and 11 1/2" barrel lengths is ammunition sensitive and a more violent firearm to shoot. Colt had their problems with the early versions of the shorty (XM-16E1 and E2). Colt attached what was termed a moderator to the end of the barrel to act as a booster to the gas system to allow the firearm to function reliably. Although I have not measured the hole size on the boost assisted barrel, I would expect that the moderator allowed Colt to use a smaller gas port size than the larger size required on the barrels without the moderator.

Hopefully, many of you will now be able to solve your problems with your shorty AR-15/M16 using the insight I have provided. If your weapon is a converted Colt AR-15 or built from non-Colt components, and you get it functioning reliably, you may now want to apply the final touches by having it refinished with Moly Resin to look like an original Colt M16. You may also want to have the selector stops added to the lower receiver and have the safe and fire marking welded up and re-stamped safe, semi, and auto. In addition, M16 can be changed to M16A1 or A2 and caliber markings can be changed.

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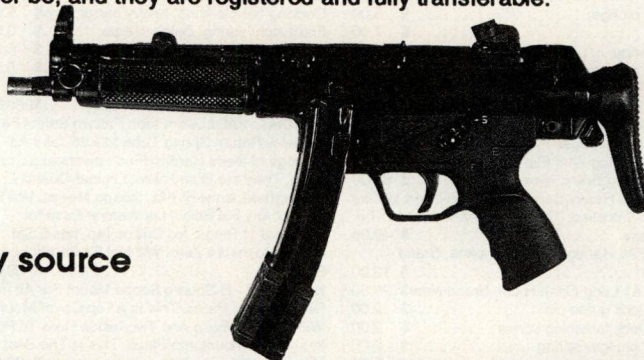
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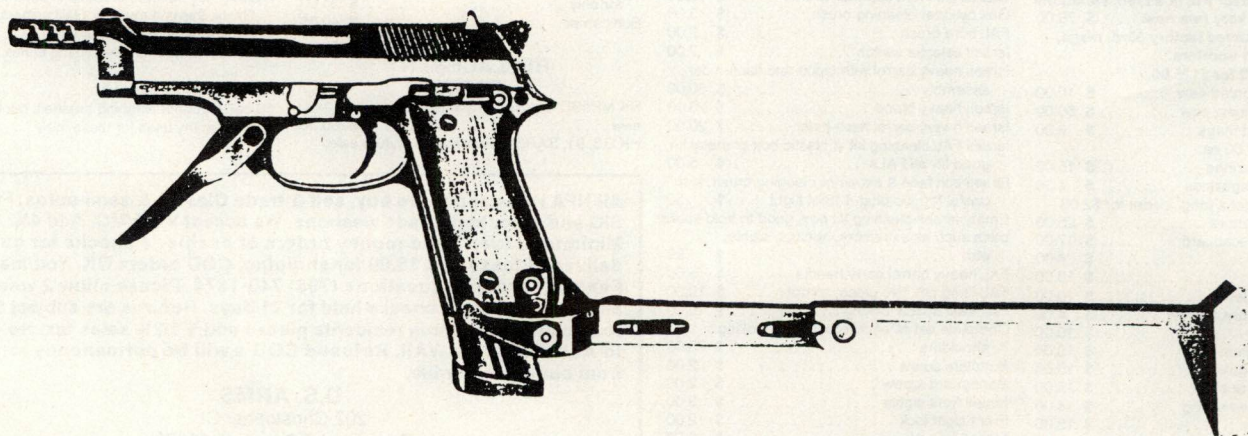
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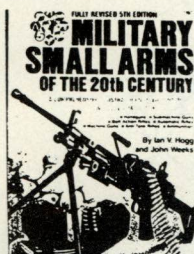
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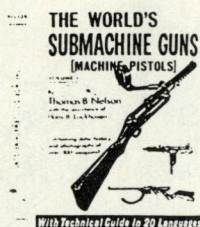


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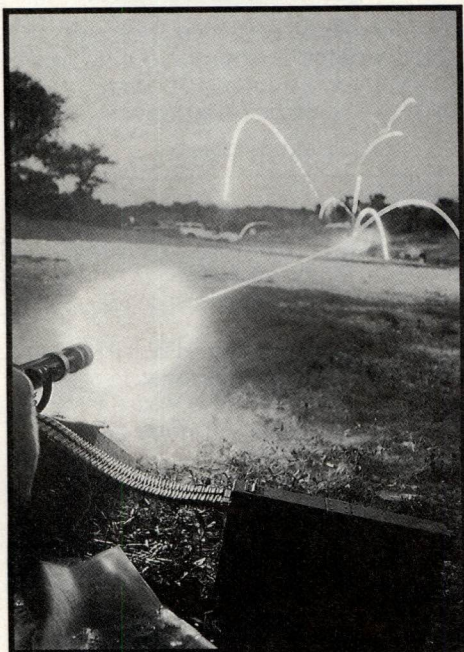


Welcome to the second column of *Focus On.*, a bimonthly series that will detail a different firearm in each installment. With the holiday season in full swing, there is much discussion of what "toys" one is longing for. This month's featured firearm is one of the exotic firearms that is on many holiday "wish lists." With only 12 to 15 transferable guns in the NFA registry, and a five figure price tag, they are not as common as your average MAC. From Knob Creek to the North Country, the Miniguns are a real crowd pleaser. There is usually a line of people waiting to fire a belt of ammo through the gun.

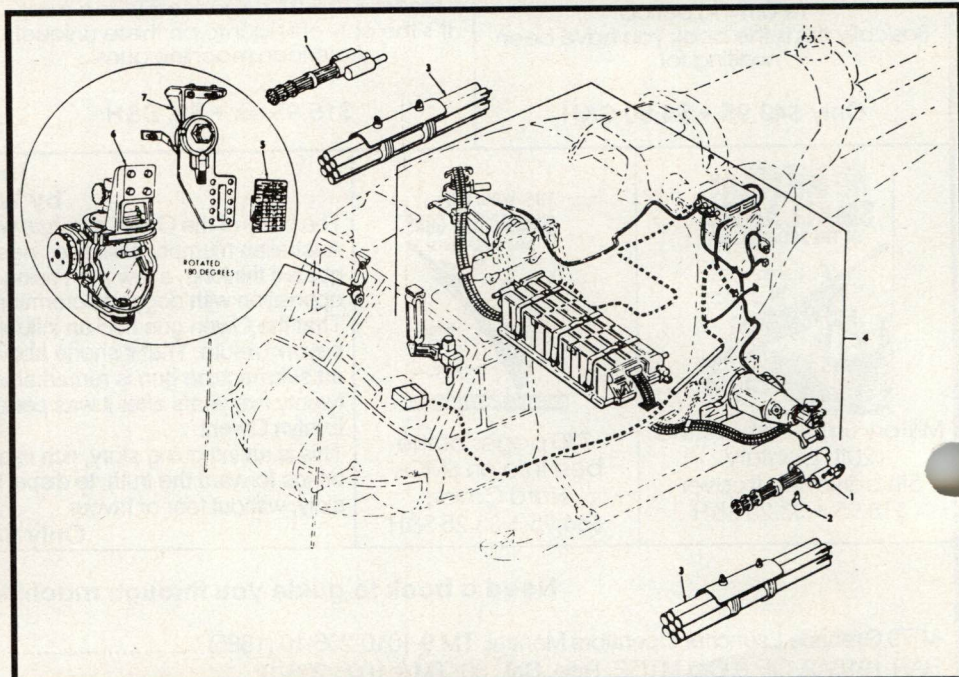
Focus On:

THE GENERAL ELECTRIC M-134 MINIGUN

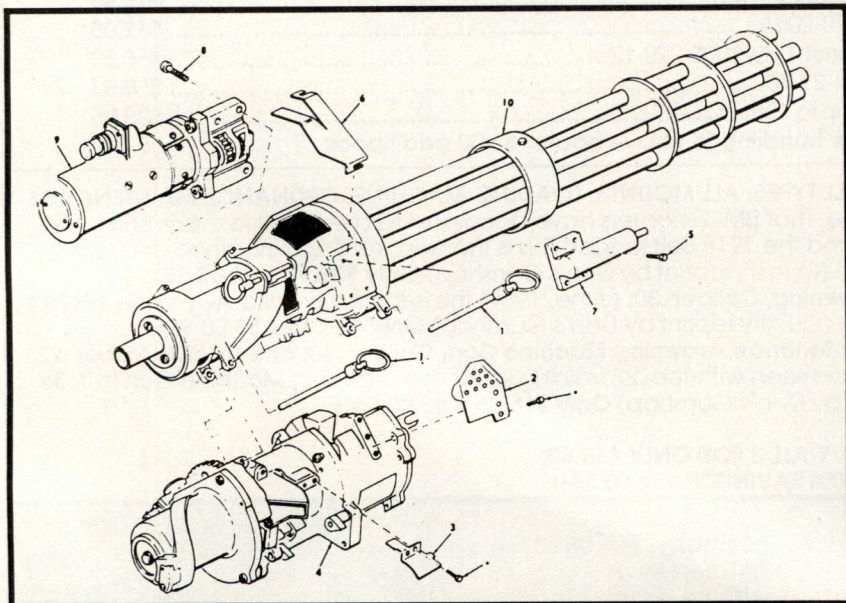
by CARL SILVER



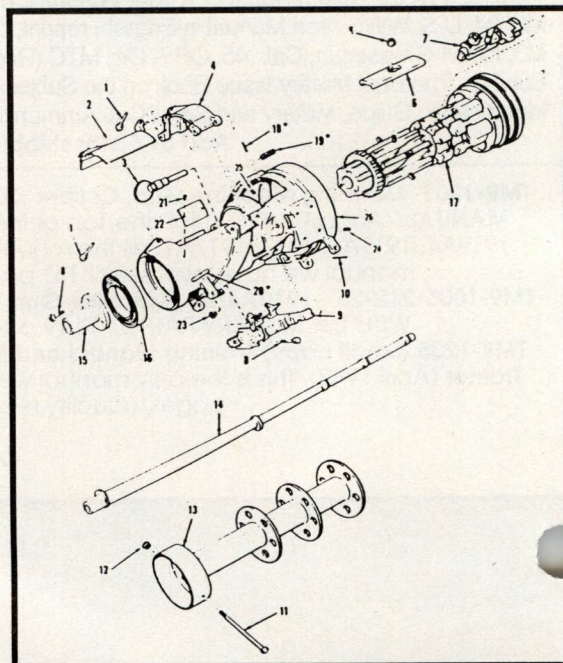
The Minigun(s) firing *tracers* is more spectacular than any fireworks display as pictured above in the Machine Gun News Minigun poster.



Schematic of the twin Minigun and rocket pods on a Huey.



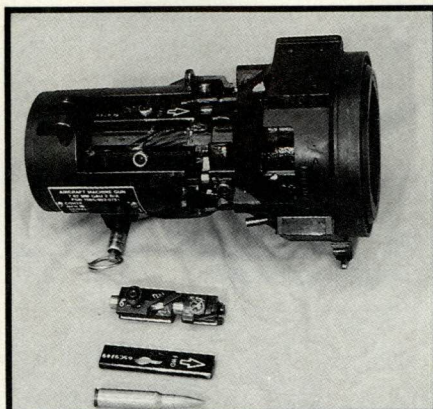
Above: The major assemblies: receiver, barrel assembly, motor and the delinking feeder. Right: The receiver and barrel group details.



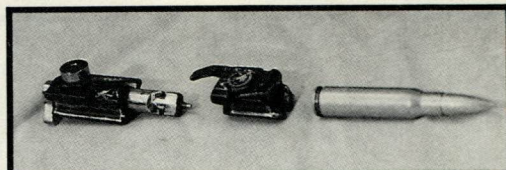
HISTORY

The Gatling gun was developed by Indiana doctor Richard J. Gatling at the end of the Civil War. In 1865 the U.S. Army officially adopted the Gatling gun in .50 caliber. An electric motor was first attached in 1885 which resulted in an incredible 3500 rpm firing rate! It was decided that the ammunition consumption was too great and the project was shelved. With the arrival of other designs like the Browning, there was not much interest in multi-barreled machine guns until the end of WWII.

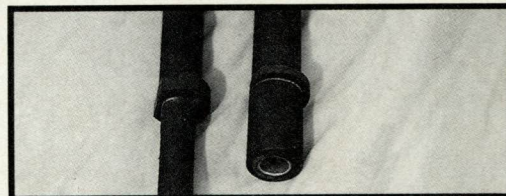
The development of faster, jet powered aircraft meant shorter time-on-target for air



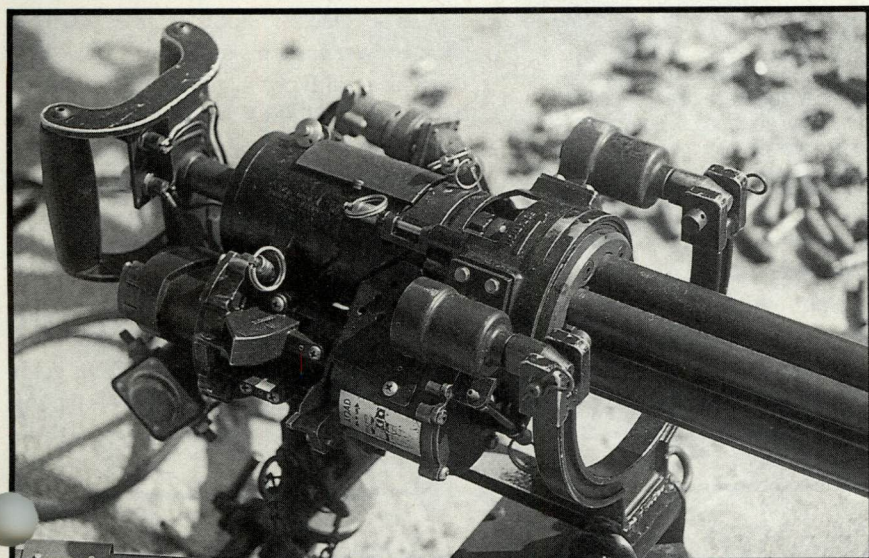
Receiver and one bolt assembly. Every bolt assembly has its own firing pin & firing pin spring



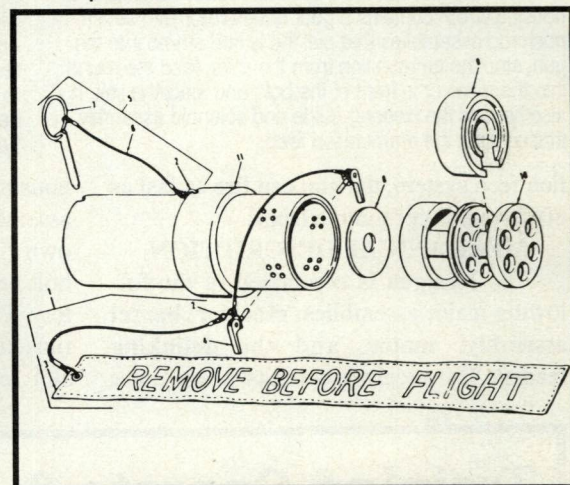
Bolt body w/ firing pin, bolt head and 7.62 mm round.



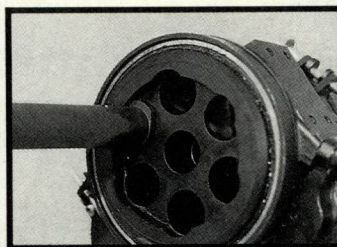
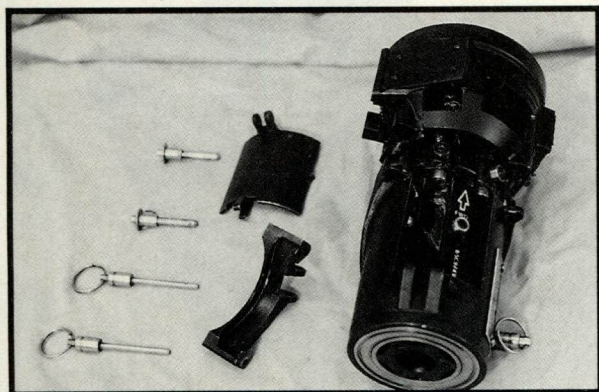
Each barrel has a interrupted shoulder at the chamber end (right) which locks the barrel into the rotor. Halfway down the barrel is another shoulder (left) which prevents the barrel from rotating when the barrel clamp is in place.



Closeup of the General Electric M-134 Minigun machinegun.



A special bullet trap assembly is used to facilitate safe troubleshooting and testing.



Above: Barrel locking into rotor. Left: Receiver with access cover and safing sector removed. The safing sector cocks and releases each firing pin.

to air and air to ground engagements. The Air Force contracted General Electric to design an electrically powered, rapid firing 20 mm cannon under the project code name **Vulcan**. This later became the actual name of the gun which was first used in the late 50's. During the early 60's, G.E. of Burlington, VT, developed the scaled down (7.62 mm) **Minigun** for use on helicopters and aircraft for the Vietnam War.

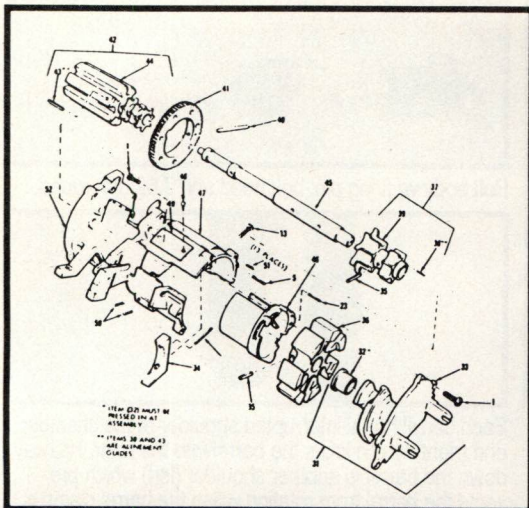
The old C-47 aircraft, known as the cargo and troop carrying "Goonie Bird" was equipped with three Miniguns and

redesignated the AC-47. More commonly known as: "Puff, the magic dragon," they could saturate an area the size of a football field with one bullet per square yard in less than a minute.

G.E. has since developed a whole family of guns based on this design ranging from an experimental 5.56 mm version (named **Sixpack**, but only several prototypes were built) to the 30 mm cannons. The 20 mm **Phalanx** system is the key element of the C.I.W.S. (Close-in Weapon System) on our battleships.

FUNCTIONAL DESCRIPTION

The General Electric M-134 Minigun machine gun is a multiple barrel, belt-fed, electrically driven, air cooled automatic firearm chambered for the 7.62 X 51 NATO cartridge. The six barrels are rotated by an electric motor. The receiver, behind the barrels, carries six bolts on a rotor; the bolts have a roller bearing that tracks in a cam slot machined into the housing surrounding the rotor. These bolts lock into the rotor by rotation of their heads. The ammunition is belt-fed by the delinking feeder which strips the rounds from the links and positions them in front of the bolts. As the rotor assembly turns, each round is chambered, at the 12 o'clock position the firing pin is released and the round fires. The empty case is then extracted and ejected and the bolt continues around to pick up another cartridge. When the trigger is released, the ammunition feed is bypassed so that there is no danger of a cook-off while the barrel and rotor assembly are coming to a rest. Depending on the application and ammunition

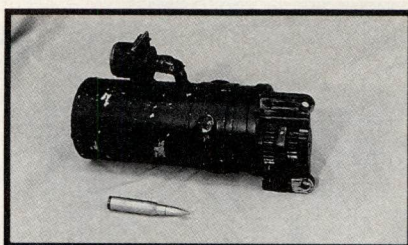


Delinker feeder detail. The delinker feeder consists of a housing which contains a gear driven rotor with seven push rod assemblies that pull the linked ammo into the gun, strip the ammunition from the links, feed the round into the receiver in front of the bolt, and eject the link. It also houses the clearing guide and solenoid assembly that controls the ammunition feed.

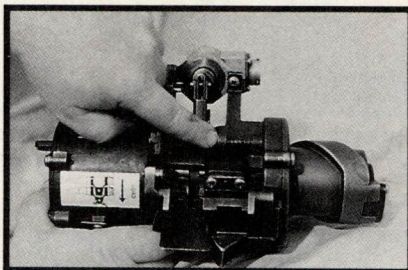
tion feed system, the gun can fire as fast as **6000** rounds per minute (rpm).

MECHANICAL DESCRIPTION

The Minigun is comprised of the following major assemblies: **receiver, barrel assembly, motor, and the delinking feeder.** The receiver consists of an outer



Electric motor assembly.



Finger on timing index pin on delinker feeder. When attaching the delinking feeder to the receiver, the *timing* is indexed by depressing and holding the timing pins on both the feeder and the receiver.

housing containing the rotor and six bolt assemblies. Every bolt assembly has its own firing pin and firing pin spring. The bolt head rotates to lock the bolt into battery. Each also has a roller bearing which runs in the cam slot in the housing. The cam slot has a removable section called the

safing sector which cocks and releases each firing pin. This sector is removed by pulling two quick release pins before performing maintenance on the gun. A special bullet trap assembly is used to facilitate safe troubleshooting and testing.

The barrel assembly consists of six barrels and a barrel clamp assembly. Each barrel has a interrupted shoulder at the chamber end which locks the barrel into the rotor. Halfway down the barrel is another shoulder which prevents the barrel from rotating when the barrel clamp is in place. The military recommends changing the barrels every 60,000 rounds.

The electric motor is rated at three horsepower and runs on 28 Volts DC. There were several types manufactured including a two speed (2000 /4000 rpm) version. The delinking feeder is almost as complicated as the receiver itself. It consists of a housing which contains a gear driven rotor with seven push-rod assemblies that pull the linked ammo into the gun, strip the ammunition from the links, feed the round into the receiver in front of the bolt, and eject the link. It also houses the clearing guide and solenoid assembly that controls the ammunition feed. When attaching the

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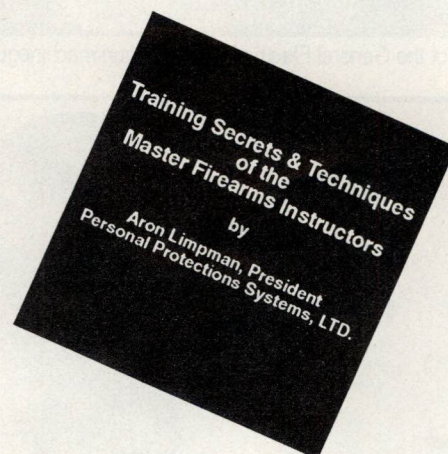
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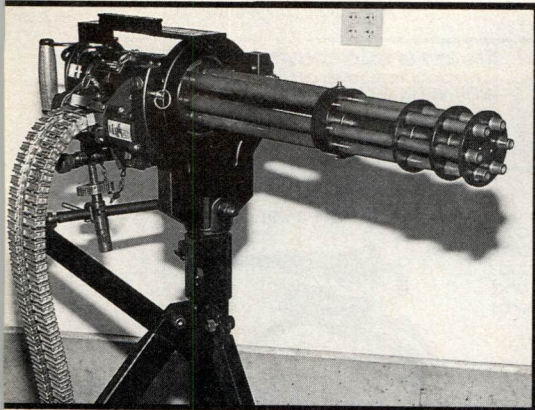
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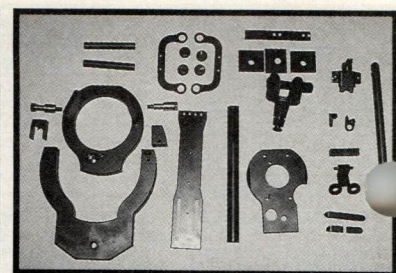
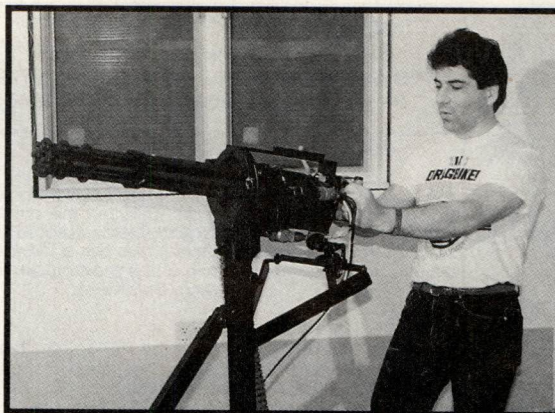
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<p>BREN GUN DEMILLED RECEIVER \$ 100.</p> <p>BREN GUN MKII 8mm BARREL \$ 195. (VG)</p> <p>.303 MK I BBL G-VG- \$ 85.</p> <p>.303 MK II BBL G-VG- \$ 85.</p> <p>.303 MK III Paratrooper BBL Shortie - Exc \$ 195.</p> <p>BREN SLING \$29.95</p>	<p>M-7 .50 Cal Linker \$50.00</p> <p>Belt Linkers (commercial) 30-06 or .308 (specify) \$175</p> <p>1918 Cloth Belt Loader for 1917 and 1919 BMGs \$135.00</p> <p>Largest private stock of M.G. Parts in the U.S. (maybe the world) Write your wants!</p>	<h2 style="margin: 0;">SARCO, INC.</h2> <p>P.O. Box 98, STIRLING, NEW JERSEY 07980 Phone (908)647-3800 Fax (908)647-3846</p>	<p>MG-42 7.62 NATO CONVERSION PARTS - We have complete top cover assy's with feed tray assy's. NEW-RHEINMETALL This is a key part of the overall conversion. Set of both parts - Special sale - was \$495. now \$295.</p> <p>Have a few new 7.62 NATO rear sights - \$65.00 ea.</p>																										
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<p>M1919A4 RAMO made transferable guns. Only 2 left. - 30 Cal. \$2,495 ea. Complete with complete tripod and the long list of accessories and parts offered. See our previous ads for list of goodies.</p>		<div style="text-align: center;">  <p>The Cadillac of M.G. Mounts!!</p> </div>																											
<p style="text-align: center;">MG AMMO BELTS AND LINKS</p> <p>Vickers Cloth \$15 ea., 3/\$35.</p> <p>.30-06 Browning Links - New - in Strip boxes. \$4.50/100, \$30/1000, \$125 per crate of 5000</p> <p>.50 BMG Links - New in boxes.</p> <p>\$9.50 per 100 ... \$80.00 per 1,000</p> <p>Playtime - Alpha MG 8MM Belts (metallic like MG34 with leather starter tabs. Can of 4 belts \$15.00</p> <p>MG-34 Starter Tabs \$9.95</p> <p>M13 Links for M60 SMG -</p> <p>\$35. per 1000; \$30. per 1,000 for 2,000; \$25. per 1,000 for 5,000; \$20. per 1,000 for 10,000</p>		<p>MACHINE GUN MAGAZINES</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> <p>Brand new in G.I. wrap- per .50 Cal. HB2 MG Barrels \$275.00</p> <p>Brand new in the wrap- per G.I. .50 Cal. ANM2 or M3 Aircraft barrels. Stellite lined & Chrome bores \$225.00</p> <p>7.62 NATO Muzzle Bushings for A4 Browning \$34.95 ea.</p> </td> <td style="width: 50%;"> <table border="0" style="width: 100%;"> <tr><td>Bren .308 30 round mag v.g.</td><td>\$50.00</td></tr> <tr><td>MP 38/40 magazines, exc.</td><td>\$25.00</td></tr> <tr><td>MP 38/40 mag loader (orig)</td><td>\$30.00</td></tr> <tr><td>MP41 mag loader (orig)</td><td>\$35.00</td></tr> <tr><td>L1A1 30 rd orig G1FAL mag</td><td>\$50.00</td></tr> <tr><td>50rd Swiss Newhausen (adapt able) 9mm</td><td>\$15.00</td></tr> <tr><td>Mag loader for above</td><td>\$25.00</td></tr> <tr><td>French MAS 49 SMG mag</td><td>\$25.00</td></tr> <tr><td>FAL 30 rd (modified)</td><td>\$20.00</td></tr> <tr><td>HK 91 30 rd mag</td><td>\$24.95</td></tr> <tr><td>HK 91 .308 mag loader</td><td>\$ 7.95</td></tr> <tr><td>Sterling 32 rd with rollers</td><td>\$20.00</td></tr> </table> </td> </tr> </table>		<p>Brand new in G.I. wrap- per .50 Cal. HB2 MG Barrels \$275.00</p> <p>Brand new in the wrap- per G.I. .50 Cal. ANM2 or M3 Aircraft barrels. Stellite lined & Chrome bores \$225.00</p> <p>7.62 NATO Muzzle Bushings for A4 Browning \$34.95 ea.</p>	<table border="0" style="width: 100%;"> <tr><td>Bren .308 30 round mag v.g.</td><td>\$50.00</td></tr> <tr><td>MP 38/40 magazines, exc.</td><td>\$25.00</td></tr> <tr><td>MP 38/40 mag loader (orig)</td><td>\$30.00</td></tr> <tr><td>MP41 mag loader (orig)</td><td>\$35.00</td></tr> <tr><td>L1A1 30 rd orig G1FAL mag</td><td>\$50.00</td></tr> <tr><td>50rd Swiss Newhausen (adapt able) 9mm</td><td>\$15.00</td></tr> <tr><td>Mag loader for above</td><td>\$25.00</td></tr> <tr><td>French MAS 49 SMG mag</td><td>\$25.00</td></tr> <tr><td>FAL 30 rd (modified)</td><td>\$20.00</td></tr> <tr><td>HK 91 30 rd mag</td><td>\$24.95</td></tr> <tr><td>HK 91 .308 mag loader</td><td>\$ 7.95</td></tr> <tr><td>Sterling 32 rd with rollers</td><td>\$20.00</td></tr> </table>	Bren .308 30 round mag v.g.	\$50.00	MP 38/40 magazines, exc.	\$25.00	MP 38/40 mag loader (orig)	\$30.00	MP41 mag loader (orig)	\$35.00	L1A1 30 rd orig G1FAL mag	\$50.00	50rd Swiss Newhausen (adapt able) 9mm	\$15.00	Mag loader for above	\$25.00	French MAS 49 SMG mag	\$25.00	FAL 30 rd (modified)	\$20.00	HK 91 30 rd mag	\$24.95	HK 91 .308 mag loader	\$ 7.95	Sterling 32 rd with rollers	\$20.00
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<p style="text-align: center;">7.62MM Mini Gun Barrels</p> <p>Few only! - New \$150.00 ea.</p> <p>Used, Exc. \$100.00</p> <p>Used, Good \$ 75.00</p> <p>Used, Bad \$ 50.00</p>		<p style="text-align: center;">VARIOUS MACHINE GUN MOUNTS</p> <table border="0" style="width: 100%;"> <tr><td>M-3 TRIPOD W/T+E/PINTLE-NEW</td><td>\$ 795.</td></tr> <tr><td>M-3 TRIPOD W/T+E/PINTLE-USED</td><td>\$ 645.</td></tr> <tr><td>M-2 TRIPOD W/T+E/PINTLE-NEW</td><td>\$ 425.</td></tr> <tr><td>M-2 TRIPOD W/T+E/PINTLE-USED</td><td>\$ 350.</td></tr> <tr><td>BREN GUN TRIPOD W/ANTIAIRCRAFT EXTENSION</td><td>\$ 245.</td></tr> <tr><td>M-48 JEEP DASH MOUNT</td><td>\$ 495.</td></tr> <tr><td>QUAD MOUNT (B.ARMOR/GEN.)</td><td>\$ 645.</td></tr> <tr><td>M-4 PEDESTAL MOUNT-NEW</td><td>\$ 495.</td></tr> <tr><td>MAG-58 TRIPOD (titanium) with adjustable front leg</td><td>\$ 500.</td></tr> <tr><td>M-1 TRIPOD A.A.-50 CAL</td><td>\$ 750.</td></tr> <tr><td>M-63 A.A. MOUNT</td><td>\$ 995.</td></tr> </table>		M-3 TRIPOD W/T+E/PINTLE-NEW	\$ 795.	M-3 TRIPOD W/T+E/PINTLE-USED	\$ 645.	M-2 TRIPOD W/T+E/PINTLE-NEW	\$ 425.	M-2 TRIPOD W/T+E/PINTLE-USED	\$ 350.	BREN GUN TRIPOD W/ANTIAIRCRAFT EXTENSION	\$ 245.	M-48 JEEP DASH MOUNT	\$ 495.	QUAD MOUNT (B.ARMOR/GEN.)	\$ 645.	M-4 PEDESTAL MOUNT-NEW	\$ 495.	MAG-58 TRIPOD (titanium) with adjustable front leg	\$ 500.	M-1 TRIPOD A.A.-50 CAL	\$ 750.	M-63 A.A. MOUNT	\$ 995.				
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<p style="text-align: center;">1917/1919 Browning Spade Grips</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <ul style="list-style-type: none"> <input type="checkbox"/> Newly Manufactured <input type="checkbox"/> Used Original .50 cal grip plates, tubes & screws <input type="checkbox"/> Large knurled trigger pads <input type="checkbox"/> No modifications to gun required <input type="checkbox"/> Parkerized finish <input type="checkbox"/> New black walnut handles <input type="checkbox"/> Brass trigger roller with Q.D. pin <input type="checkbox"/> A quality, factory unit with "class" <input type="checkbox"/> Perfected design-has been extensively tested! </div> <div style="flex: 1; text-align: center;">  <p>\$325.00</p> <p>In stock for immediate shipment</p> </div> </div> <p><input type="checkbox"/> Just developed - for M1917 - Blued back-plate with no hole \$330.</p>		<p style="text-align: center;">STEN GUN SPARE PARTS SETS</p> <p>A complete set of spare parts for the STEN MK II 9mm Sub-machine gun (except for the receiver). The "set" includes barrel, 1 magazine, magazine housing, trigger housing and stock, front threaded bushing, internal parts, bolts, ejector, etc. All parts except receiver tube itself. Parts are used-very good condition. As there is no receiver, no FFL is required.</p> <p style="text-align: center;">STEN PARTS SET PRICES 1 set with 1 mag \$89.95</p>																											
<p>BROWNING 1919A4 complete parts sets less RH sideplates were \$575. Super Special Now \$495.00</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>For replacement with 7.62 NATO parts.</p> <p>Barrel</p> <p>Belt Holding Pawl</p> <p>Bolt</p> <p>Top Cover</p> <p>Add. \$125.00</p> </div> <div style="flex: 1; text-align: center;">  </div> <div style="flex: 1;"> <p>JUST RECEIVED!</p> <p>New cartridge guide set in 7.62MM NATO for 1919A4 Brownings. (2 guides per set) - Few only. . \$59.95/set</p> <p>Rivet set (for reciever) not included in kit. Available \$35.00 set</p> </div> </div> <p>NOTE: OUR KITS HAVE LEFT SIDE PLATE, TRUNNION, AND TOP & BOTTOM PLATES OF RECEIVER.</p> <p>This kit includes all parts for an A4 or A6 Browning MG except one sideplate and the rivet set. Left side plate, trunnion block & top & bottom plate ARE included (these are truly unavailable items). All sights are included. Barrel bore condition is excellent & most parts are in new condition.</p> <p>IN ADDITION TO THE PARTS SET, WE INCLUDE THE FOLLOWING ACCESSORIES FREE:</p> <p>1- New G.I. Gun Cover 2- Spare Parts Pouch 3- 200 Links 4- Cleaning Rod w/Case 5- Broken Shell Extractor 6- New G.I. Carrying Handle 7- Oil Can 8- M16 Brush 9- G.I. Manual.</p> <p>Note: Sideplate material blanks not sold to buyers of this kit.</p> <p>Note: All above accessories are original and have a value over \$100.00</p> <p style="text-align: center;">Cost for the 1919A1 Kit and all accessories is \$495.00</p> <p>M1919 A6 Kit Option Available Includes all A6 parts except bipod and flash hider parts. Add \$100.00 to price of basic kit above.</p>		<p style="text-align: center;">STEN MAG LOADERS</p> <p>Box type Austen loader - the best \$ 24.95 ea.</p> <p style="text-align: center;">Nazi MP-40 Magazines & Loaders</p> <p>Original WWII magazines and loaders. Nazi marked. 6 magazines and 1 loader \$150.00/set.</p>																											
<p style="text-align: center;">M1917A1 ALTERNATE HEAVY DUTY TRIPOD W/BUILT IN AMMO CAN HOLDER</p> <p>Our "special" tripod incorporates the stability of an original 1917 tripod with the versatility of multi-use cradle assy. V.G. condition \$ 345.00</p> <p>Special Features:</p> <ul style="list-style-type: none"> * The heavy duty gun platform of the original U.S. M1917A1 Tripod. * Easy traverse & elevation for "fun" shooting. * Oval position depression stop or free travel position. * Cradle Lock stop. * Ammo can holder on cradle with dual ammo can holding pads. (Keeps can by the gun for positive feeding. No twisted belts.) * Cradle assy. is adjustable to hold U.S. .50 M2 BMG. U.S. .30 or 7.62mm 1919A4 series, or MAG machine gun. <p>Also available with "gun platform pintle" described below in place of the cradle. Weld or bolt on your own cradle assy, for any type of machine gun \$295.00</p>		<p style="text-align: center;">SARCO MACHINE GUN PARTS CATALOG \$4.95</p> <p>The best selection of MG parts anywhere. Our big (75) page catalog lists an extensive inventory of parts for the most popular full-auto guns on the market. Parts for the following guns include:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"> <p>.50 Cal. Browning Series</p> <p>.30 cal. ANM2</p> <p>MG 34</p> </td> <td style="width: 33%;"> <p>.30 Cal Browning Air & Watercooled Series</p> <p>.30 BAR</p> </td> <td style="width: 33%;"> <p>MG60</p> <p>.30 Cal. M37</p> <p>Vickers</p> </td> </tr> </table>		<p>.50 Cal. Browning Series</p> <p>.30 cal. ANM2</p> <p>MG 34</p>	<p>.30 Cal Browning Air & Watercooled Series</p> <p>.30 BAR</p>	<p>MG60</p> <p>.30 Cal. M37</p> <p>Vickers</p>																							
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The finished product has been fired successfully at several shoots.



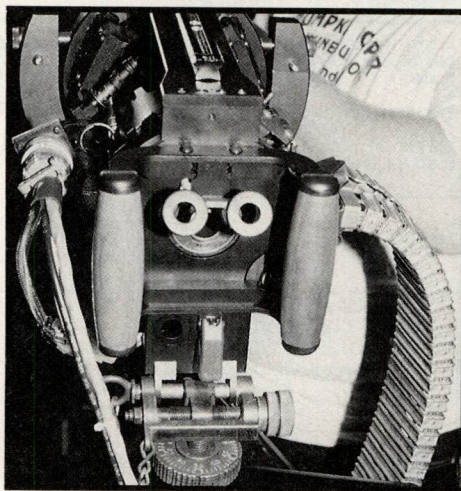
Parts of the custom gun mount.

Al Civitate inspects the completed Mini-gun mount.

delinking feeder to the receiver, the *timing* is indexed by depressing and holding the timing pins on both the feeder and the receiver.

FEED SYSTEMS

Based upon the application, there are a variety of feed systems that were used with the Minigun. For missions requiring the full 6000 rpm, electrically powered feed systems were used to ensure reliable operation. The twin UH-1B and C (Huey's) helicopter mounts carried 6,000 rounds of ammunition. A single gun external pod system held 3,000 linked rounds in a motor driven drum magazine.



The controls on the custom mount.

MINI'S AT THE MOVIES

For those of us who enjoy seeing the Minigun in action, here is a brief (and probably incomplete) movie list:

GATLING GUN:

** *The Outlaw Josey Wales* (Clint Eastwood)

MINIGUN:

The Green Berets (John Wayne), C-47

** *Rambo* (Sly Stallone) Huey, 40,000 blanks!

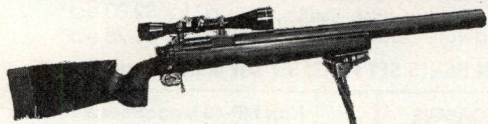
** *Predator* (Arnold Schwarzenegger)

** *Terminator 2* (Arnold Schwarzenegger)

** All of these are with BLANKS, for

B.G.W.

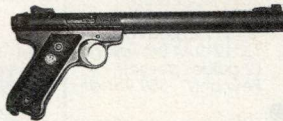
CLASS II MANUFACTURER
OF
QUALITY SUPPRESSORS AND EXOTIC WEAPONS SYSTEMS



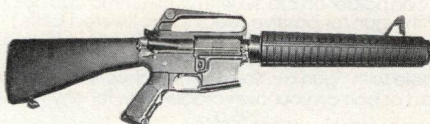
BGW's Tactical Weapon System: Available in 300 Whisper, 300 Ingram/Warbel, 308, 300 Anabis, 400 Anabis and 500 Anabis



R-50 Suppressed 50 BMG Rifle



MKII-B Suppressed Ruger Pistol



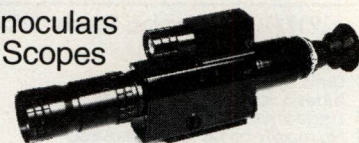
C-9 Suppressed Colt 9mm SMG



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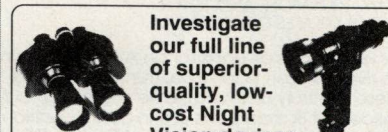


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live ammo see the video: **MACHINE GUN MAGIC** by Mike Dillon

CUSTOM MOUNT SYSTEM

I had the opportunity to study the Min- when SELECT FIRE was contracted to build a custom mount system for recreational shooting. The project entailed designing and fabricating the gun mount, the tripod, and the electrical controls.

The gun mount required many hours of CNC machining to carve the numerous parts. The co-design and expert machining was performed by Allan R. Civitate, of Bristol, CT. We designed the gun mount to fit the standard Browning pintle and T & E mechanism, allowing the separate components to be used with other guns and mounts. The tripod had to meet several criteria: the ability to be carried and set-up by one person, to fit in the back of a station wagon, and most important; to be rock steady for extended "bursts." Sections of steel I beam and rectangular tubing went into the mount to provide the necessary stiffness. The problem of controlling the recoil was solved by mounting four 20 mm ammo cans at the front of the mount. These are then filled with on-site ballast (rocks, water, sand, etc.). After the initial test firing, an additional brace was added to counteract the torque from the gun. The faster fabrication and finishing was done by Garret & Joe Maino of FABTRON in Kensington, CT. The relays to control the gun were mounted in a .50 cal ammo can for protection. The completed mount system has been fired successfully at several shoots.

WHERE DO I GET ONE ?

At the time this article was written (mid Oct.) there were several transferable Mini-guns being advertised for sale. You can also contact the manufacturers listed below.

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WEAPONS OF THE INFANTRY DIVISION (1942) "The skills you obtain here may someday save your life!", says the narrator of this unique Army Training Film. This film serves as a guide for the soldier to become familiar with the distinguishing sound of each weapon used by the infantry. A description of each weapon is given followed by a look at the weapon firing. Now move down range and experience what the soldier under fire would hear as bullets fly overhead! Finally, the receiving end - where you don't want to be. See and hear the effects of each weapon hitting its target. Weapons shown: 03 Springfield, M1 Garand, B.A.R., Browning .30 cal. Lt. Machine Gun, .30 cal. Heavy Machine Gun, .50 cal. Heavy Machine Gun, 37mm Anti-Tank Gun, 75mm Gun, 60mm Mortar, 81mm Mortar, 105mm Howitzer, 155mm Howitzer, Bayonet, .45 cal Pistol, Hand Grenade. 56 minutes. VHS 201.\$29.95

THOMPSON SUBMACHINE GUN, CAL. .45, 1928A1

(1942) Topics covered in this collection of detailed Army training films include: PRINCIPLES OF OPERATION: Description of gun characteristics, Trigger action • ASSEMBLY AND DISASSEMBLY: Removing and replacing groups, Nomenclature of groups, Spare parts and accessories, Care and cleaning, Assembling. • MANUAL OF ARMS • STOPPAGES AND IMMEDIATE ACTION • SIGHTS • LOADING AND FIRING: Types and care of ammunition • INDIVIDUAL SAFETY PRECAUTIONS • MARKSMANSHIP: Blacken sights to reduce glare, Triangulation, Sight alignment, Range estimation, Positions, Marksmanship exercises, Air Targets, "With a complete understanding of how it functions, you can make sure the Tommy Gun will not fail when it's needed most". Also see tracer fire at night! 97minutes. VHS 203.\$29.95



CARBINE, CAL. .30, M1 PRINCIPLES OF OPERATION: Detailed instruction is given on the operating function of the many parts which make up the M1 Carbine. 14 minutes.

THE M-2 CARBINE The unique design features of the full automatic M2 Carbine are well illustrated in this WWII army training film. A live fire demonstration is conducted to compare the M2 Carbine with its Japanese counterpart the 8mm Submachine Gun Model 100. 15 minutes. 2 films, 29 minutes. VHS 205\$21.95

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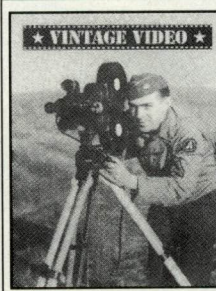
PART 2 - TYPES OF OPERATION Four types of operation are explained in detail: Manual operation-Springfield, Gas operation-M1 Garand & BAR, Blowback operation-M3 Submachine Gun, Recoil operation-Pistol & .50 cal. M.G.

PART 3 - SEMIAUTOMATIC AND AUTOMATIC FIRE Weapons shown: Springfield, M1 Garand, M1 Carbine, BAR, M3 Submachine Gun, .50 cal. Heavy Machine Gun, Pistol. 41 minutes. VHS 202.\$29.95



RIFLE, U.S. CAL. .30, M-1 GARAND PRINCIPLES OF OPERATION The operation of the M1 Garand is covered in detail using the actual rifle and animated diagrams. 16 minutes.

RIFLE, AUTOMATIC CAL. 30, BROWNING M1918A2 PRINCIPLES OF OPERATION: A complete description of the BAR's gas operated firing cycle is presented by using a cutaway BAR and animated diagrams. 16 minutes. 2 films, 32 minutes. VHS206.\$21.95



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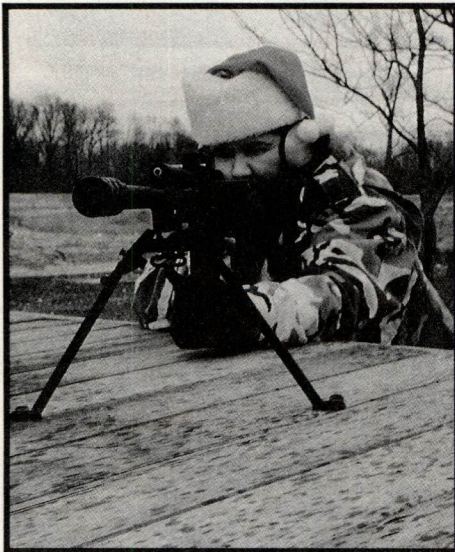
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PAUZA SPECIALTIES P-50

The Ultimate Long Range Sniper Rifle

by *DUTCH HILLENBURG*



Sniping is a highly specialized activity requiring both exceptional personnel and equipment. Because of the nature of the urban environment, the average police sniper shot is reputed to be only 71 yards. It can and has been argued that a \$1,500 match-grade .30 caliber rifle is over-engineering the problem. The idea in using that precision weapon is to be able to make a very accurate hit on a hostile target, often in poor light, without endangering a hostage inches away. Some people may think that a scope-mounted 12 gauge with a

rifled bore can do the job. Maybe it can, but I doubt if anyone would like to play William Tell and let someone shoot an apple off their head with that 12 gauge "Supergun" from 71 yards. I don't think so. I don't know about you but if I were the hostage, I'd want surgical precision.

While the .30 caliber sniper rifle is capable of kills beyond 1000 yards, tests have shown that the .30 caliber projectiles commonly in use become ballistically unstable past 800 yards and begin to yaw until accuracy is seriously degraded. Testing continues in an effort to eliminate or minimize this phenomenon but is ultimately limited by performance characteristics of the ammunition itself.

Left: Jim "Santa" Davidson tests this latest "toy for big boys."
Below: Ed Varner tries out the big semi-auto.



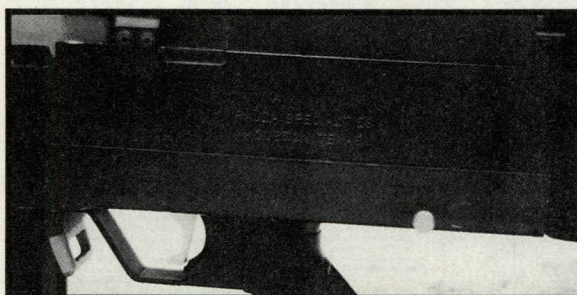
The .50 BMG (Browning Machine Gun) cartridge is the next big step in the ballistic ladder. Originally designed to penetrate vehicle and aircraft bodies at extreme ranges, troops found this round to be capable of great accuracy against other targets far beyond the reach of their .30 caliber weapons. It was used sporadically for sniper work by enterprising G.I.'s in WWII, Korea and Vietnam. Unfortunately, (or perhaps fortunately!) these efforts escaped official notice and achieved only limited success because the only available platform was the M2 .50 caliber BMG and it lacked a scope suitable for long range sniping. Interestingly, a 2X scope was issued for the M2 BMG but it was completely useless as a practical tool and thus very rarely seen. All issue .50 caliber BMG's had a dovetail on the top of the receiver for this accessory but this has been machined off of all issue guns in recent years.

Several years ago, interest in the concept of a .50 BMG sniper weapon began to rise in hobbyist and military circles alike. A few weapons such as the .55 caliber Boyes and M1918 anti-tank rifles had been converted to .50 caliber and some custom bolt actions were built but the need for good semi-auto designs remained. Robert Pauza of Pauza Specialties had been doing custom gun work for years. Pauza Specialties designed and produced the .45 caliber bolt-action carbine that the AWC Centurion was built around.

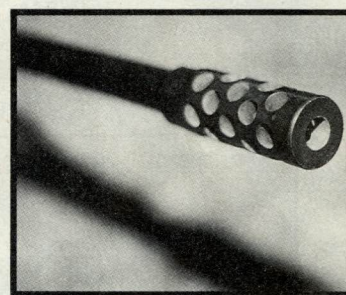
Because of the tremendous pressures generated by the .50 BMG cartridge, Pauza wanted an extremely strong action for his semi-automatic. He based his P-50 action upon the design of the WWII Soviet PTRS 14.5mm semi-automatic anti-tank rifle. This design is better known for its use in the Soviet SKS carbine and the 7.62x54mm SVT 40 rifle. This action is extremely strong and utilizes a secondary sear to ensure that the gun will not fire out of battery. Any firearm firing out of battery is likely to cause serious damage to the firearm and significant injury to the shooter. A .50 BMG firing out of battery would be a nightmare.

Maybe I'm overly cautious but I have strong reservations about the safety of some of the single shot bolt-action .50 caliber rifles on the market. I am not alone in this. A manufacturer of .50 caliber rifles, Charlie Poff of American Arms and Ordnance, says that he feels any design which uses a shell holder bolt face that does not have a mechanical means of preventing a firing pin from contacting a primer

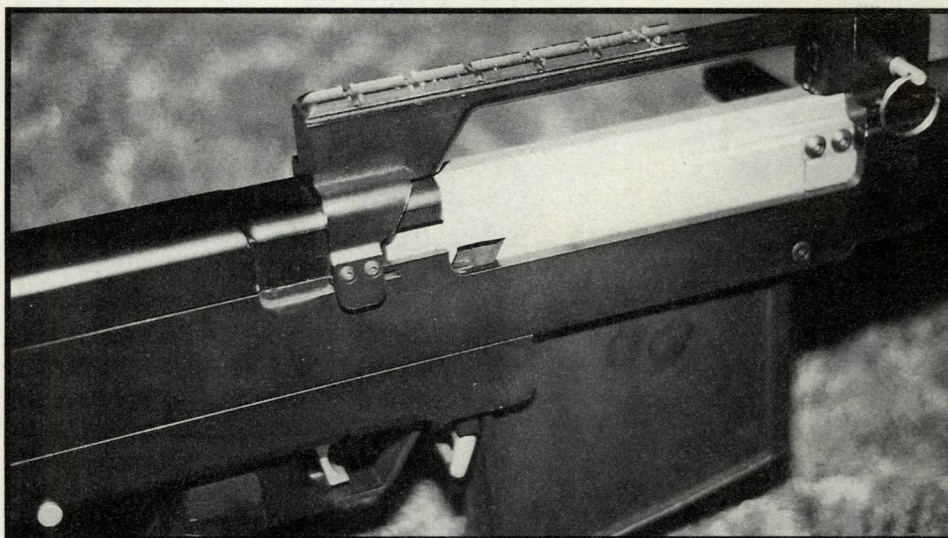
Machine Gun News - December 1993



The Pauza P-50 features ambidextrous bolt handle, safety and magazine release.



The muzzle break on the test gun has been replaced by a newer design.



The Pauza P-50 uses the same action as the Soviet PTRS 14.5mm anti-tank rifle.

without the bolt being securely locked in the receiver is a poor and potentially dangerous design. At least one design I've seen required the shooter to unlock and remove the bolt, fit a round to the bolt and then insert the bolt and cartridge into the chamber and lock the bolt home. The apparent problem with this particular design is that some manufacturers use a bolt which cocks upon opening but seems to lack any sort of safety lock for the striker housing

such as one normally finds on a Mauser or Springfield-type action. This is not true for all bolt action designs but is something you might want to watch out for. I'd feel more comfortable with a manual cocking knob. There may be some safety device on these cock-on-opening actions which I'm not aware of but this just looks bad to me. If the bolt assembly is accidentally aligned and then dropped before you can reinsert it into the receiver and lock it...

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Eric Williams, of the Fifty Caliber Shooter's Association, says that he prefers his Pauza P-50 over the Barrett M82A1 because it retails for about \$1000 less and has the potential for greater accuracy because it employs a gas-operated system opposed to the recoil-operated system of the Barrett.

I didn't do any accuracy testing but the gun was fun and surprisingly pleasant to shoot. Felt recoil was similar to that of a 12 gauge shotgun. I had no problem shooting the carbine version off-hand while at Knob Creek but the standard version is awkward for off-hand shooting. The standard version is fitted with a collapsible bipod and is quite comfortable when fired with the bipod in use. The muzzle break on the test gun vented gas out the bottom as well as out the top and sides. This bottom venting gas would throw up a lot of sand in a desert environment but I am told that a new muzzle break is now being used to prevent this problem.

If the Pauza P-50 looks familiar, it may be because you saw it used in RoboCop II. I liked the gun. It doesn't break down for transport as well as the Barrett but it costs less and is a quality product. The receiver is machined from a single piece of 4130 stock. The bolt and trigger block safe both are full reversible for left-handed shooters. All steel parts except the 17-4 PH stainless firing pin are parkerized, the aluminum is anodized and the exterior is Teflon coated. Pauza Specialties seems committed to improving their product whenever possible. They offer the P-50 through their distributor, California Armory, Inc. in standard and carbine versions with the carbine being approximately 20 percent lighter with a wooden forend instead of a bipod. They are now offering the P-50 in 12.7mm Russian and a 14.5mm gun is under development.

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San Bruno, CA 94066

415-871-4885

Fifty Caliber Shooter's Association

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Machine Gun News - December 1993



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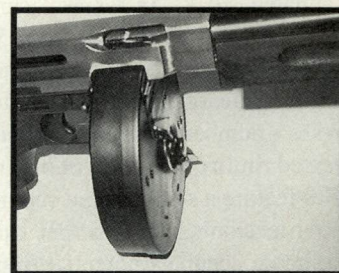
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Sound Technology

The suppressed Ruger 15/22 and other Rimfire Rifles

by Al PAULSON

The Ruger 15/22 is a particularly handsome variant of the 10/22 that features stainless steel barrel, brushed aluminum receiver, and an attractive laminated stock. As far as I can tell, the 15/22 is only available from Wal-Mart retail stores. This unusual rifle appeals to Mark White of Sound Technology, who makes a number of somewhat unusual suppressed rimfire rifles. All of his suppressed rifles feature a steel coaxial suppressor and barrel-tensioning system that squeeze the maximum accuracy potential from a rifle's barrel. They also feature a hole in the rear of the receiver so the barrel can be cleaned from the rear, as a rifle should be. This article will evaluate the rimfire rifles offered by Sound Technology.

White's rifles feature a ported barrel, surrounded by bronze mesh which is encapsulated by a steel inner coaxial tube that forms part of the tensioning system. The tension stretches the barrel, which dampens barrel harmonics that are produced by firing a round. While Ruger makes notoriously mediocre barrels for the 10/22, this tensioning system typically produces rifles that will print dime-sized 10-round

groups at 50 meters (55 yards) with a factory barrel. This performance was achieved with a rather wide variety of ammunition, while custom ultra-accurate 10/22s made by companies such as Clark and Volquartsen are quite ammunition sensitive.

An outer coaxial tube of 1 inch diameter encapsulates a series of baffles as well as the inner suppressor tube. The suppressor components are made from 4130 steel, with the exception of woven steel mesh located between the baffles. The suppressed 15/22, however, features a 300-series stainless steel tube and end caps. The chrome molybdenum tubes are 0.035 inch thick and are finished with a baked-on milspec molybdenum resin finish. The stainless tubes are 0.049 inch thick and are polished to a bright finish.

While most folks seem to like suppressed 10/22s with tubes from 16 to 18 inches in length, White prefers a suppressor length of 22 inches for several reasons. The system provides superior sound suppression but does not require shortening the factory barrel, so the suppressed rifle transfers on a single tax stamp. His variants with

12 and 16 inch tubes must be registered as short-barreled rifles, and that requires an additional tax stamp.

One of the most unusual options from Sound Technology is that the rifles can be ordered with custom match-grade bull barrels that exactly match the size and contours of the crowned suppressor. Since Ruger barrels are very easy to swap, unsuppressed and suppressed barrels can be exchanged with impunity. With a scout scope mounted on each barrel (or a cantilevered mount on each barrel with a conventional scope), the rifle need not be re-zeroed when the barrels are swapped.

A 22 inch suppressor tube looks rather unusual and awkward. But neither the length nor weight pose any noticeable handicap in the field. After all, many of us hunt deer with rifles featuring 24 inch barrels. Hunting small game with a 22 inch tube works just fine. Short-barreled rifles certainly do have their place, however. White offers 10/22s with 10 or 12 inch unsuppressed match barrels and folding stocks, which stow in a remarkably small space such as a kayak, cockpit, or day pack. He also builds suppressed 10/22s in similar

lengths. These make outstanding survival tools. White also builds suppressors on takedown rifles such as the Marlin Papoose, AR-7 Explorer and Browning Takedown, which are well suited for bush survival applications.

Here's a quick survey of the various models of integral .22 suppressors available from Sound Technology.

Suppressor Models

The Silent Stalker is an integral suppressor that is available on the Ruger 10/22, 15/22 or 77/22. Since the 15/22 is available only through the Wal-Mart chain of stores, clients must purchase the 15/22 themselves and forward the gun to Sound Technology for installation of the integral suppressor. With a 16 or 22 inch stainless suppressor, this is the best-looking system available from Sound Technology. The crowned suppressor looks for all the world like a custom match barrel.

Observers on the firing line of typical club ranges rarely suspect that the Silent Stalker is a suppressed rifle. They will briefly inspect the suppressed 15/22 in an effort to learn why it is so quiet, and then lay the gun back down on the shooting bench. They'll examine the ammunition, thinking some sort of exotic fodder is the secret to the firearm's lack of report. Even

when told they are looking at a suppressed firearm, some folks will refuse to believe that explanation. The suppressor looks like a match barrel—not a silencer—since the endcap seam is so tight that it is virtually invisible. Therefore, Sound Technology 10/22s, 15/22s and 77/22s do not appear in any way covert, thanks to White's "reverse camouflage."

The Black Ops is a Ruger 10/22 that features a black folding stock and a black 22 inch suppressor tube. It is less than 30 inches long with the stock folded. A compact variant called the Black Ops Scout features a 10 or 12 inch unsuppressed barrel (1 stamp) or a 6 inch barrel with a 12 inch suppressor tube (two stamps).

White will build suppressors with a larger tube than 1 inch diameter on a custom basis, which he calls the Hi-Volume option. Most Hi-Volume suppressors are mounted on takedown rifles such as the Marlin Papoose, AR-7 Explorer and the Browning. Extra barrels can be purchased for shooting these two rifles in either suppressed or unsuppressed mode.

Options

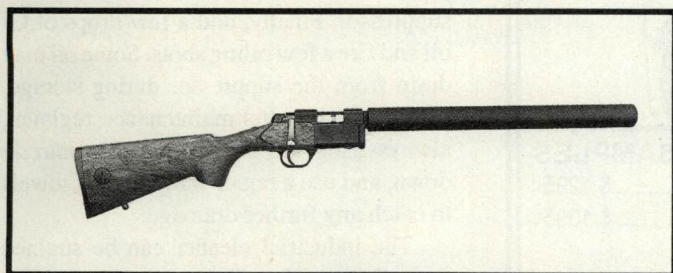
Responding to the considerable interest in falling plate competition with a small bore, self-loading rifle, White offers stainless match barrels of 1 inch diameter. The

most popular length is 16.1 inches. Changing the barrel on a Ruger 10/22, 15/22 or 77/22 simply involves the removal of two Allen screws. Since the stainless barrel appears identical to the stainless suppressor, it can be inserted and used in competitive target shooting on the same firearm.

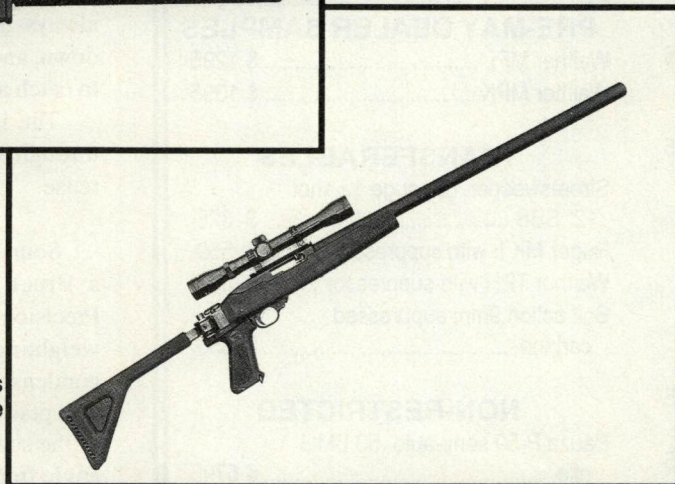
A conventional scope base can be installed directly on the barrel and fitted with a Burris Scout scope. Or a cantilevered scope base can be used to mount a conventional scope. With either approach, the suppressed and unsuppressed barrels can be swapped at will without the need to re-zero a sight. Leaving a scope on the receiver would require a re-zero every time a barrel was changed.

The Burris Scout scope is interesting because it allows extremely rapid target acquisition. The system is so fast that it allows a skilled shooter to hit clay targets in flight, and to place effective snap shots on game such as running rabbits.

The best looking suppressed rifles built by Sound Technology are the stainless suppressors built on the stainless Wal-Mart Ruger 15/22 or the standard stainless 77/22 bolt action. A silver Simmons scope provides aesthetically pleasing and cost-effective sighting, with optics that provide a very bright field of view. These rifles will

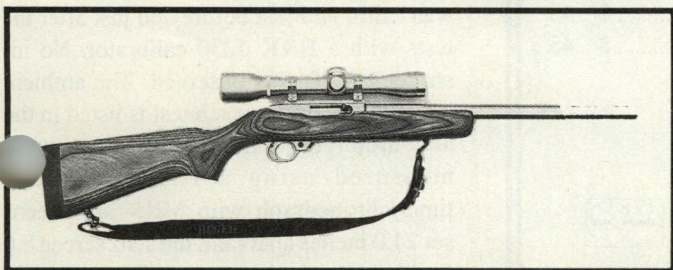


Left: The Hi-Volume Option suppressor on a Daisy Legacy takedown rifle.

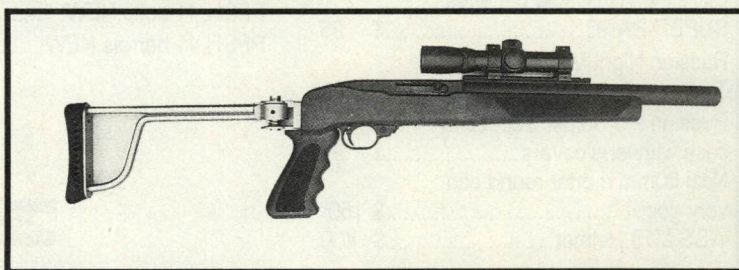


Left: The Black Ops with 22 inch tube will print dime-sized 10-round groups at 50 meters (55 yards).

Below: The suppressed Ruger 15/22 is available with a 16 inch stainless tube (shown) or a 22 inch stainless tube.

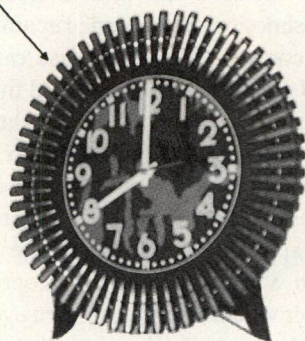


Below: A Scout Scope on the Black Ops Scout provides extremely rapid target acquisition.



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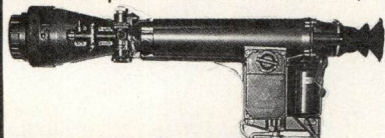
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Maintenance

Mark White recommends the following regimen for maintaining his suppressor.

He periodically treats the bore with gun oil, which he inserts into the bore of the suppressed firearm ahead of the chamber. As shots are fired, the gas drives the oil deep into the suppressor components and mixes with any moisture in the system to slow corrosion. Every 5,000 rounds, he plugs the muzzle of the suppressor and fills it with an undiluted industrial liquid cleaner. Simple Green is his favorite brand of cleaner (Sunshine Makers, Huntington Harbor, CA 92649); it's powerful, non-toxic, and biodegradable. Let stand two hours and then drain muzzle downward.

Use a small rubber hose to force very hot water through the suppressor for 10 to 15 minutes. Rotate the suppressor occasionally during this process to facilitate flushing particulates and sludge out of the suppressor. Continue to flush the suppressor until clean water exits the muzzle, and drain. Rotate the suppressor to facilitate drainage. All integral suppressors from Sound Technology incorporate drain holes to facilitate draining the suppressor with the muzzle down. After draining, use compressed air to blow out and dry the suppressor. Finally, add a few drops of GI oil and fire a few oiling shots. Some oil may drain from the suppressor during storage, so when using this maintenance regimen, always hang the suppressed rifle muzzle down, and use a rag or wad of paper towels to catch any further drainage.

The industrial cleaner can be strained through a coffee filter and recycled for reuse.

Performance

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. Velocities were measured using a P.A.C.T. MK timer/chronograph with MKV skyscreens set 24.0 inches apart and the start screen 8.0 feet from the muzzle. Graphs of trajectories

Machine Gun News - December 1993

Table 1. Sound signatures in decibels of suppressor tests.

Gun	Suppressor	Federal HV	Hansen SV	Baikal JS subsonic	Baikal JB subsonic	Baikal Sniper subsonic	RWS subsonic HP	Temp. Degrees Fahrenheit
Ruger 15/22	None	142	139	139	139	138	—	82
Ruger 15/22	ST Silent Stalker ¹	121	120	121	120	—	—	82
Ruger 10/22	ST Black Ops ²	116	113	112	113	113	—	82
Ruger 15/22	None	141	138	—	—	—	136	33
Ruger 15/22	ST Silent Stalker ¹	122	121	—	—	—	121	33
Ruger 10/22	ST Black Ops ²	116	114	—	—	—	112	33
Ruger 10/22	ST Black Ops Scout ³	129	—	—	—	—	—	33
Ruger 10/22	None	141	139	—	—	—	—	72
Ruger 10/22	Norrell Shorty ³	129	126	—	—	—	—	72
Daisy Legend	None	141	—	—	—	—	—	33
Daisy Legend	ST HV Option	121	—	—	—	—	—	33
Marlin 780	None	143	140	—	—	—	140	83
Marlin 780	Ciener	124	121	—	—	—	115	83
Ruger 10/22	None	141	139	—	—	—	139 ⁵	75
Ruger 10/22	Ciener ⁴	120	120	—	—	—	117 ⁵	75

¹Suppressor is 16 inches long ²Suppressor is 22 inches long ³Suppressor is 12 inches long ⁴Suppressor is 18 inches long ⁵Action will not cycle with this round

and projectile energies were generated using the computer program Ballistic Explorer (Version 3.3) from Oehler Research.

The following long rifle ammunition was used for the testing: Federal high velocity, Hansen standard velocity, Baikal

Junior Steel subsonic, Baikal Junior Brass subsonic, Baikal Sniper subsonic, Winchester subsonic hollowpoint.

The sound signatures of various suppressed and unsuppressed rifles appear in Table 1, and the net sound reductions are shown in Table 2. The ST Black Ops with 22 inch suppressor provides outstanding sound suppression. The ST Silent Stalker with 16 inch suppressor provides slightly less suppression than Ciener's integral suppressor. Since the tests on the 16 inch ST Silent Stalker, White has reduced the size of the rifle in his baffles from 90 inch to 0.275 inch, and the rifle is now a bit quieter.

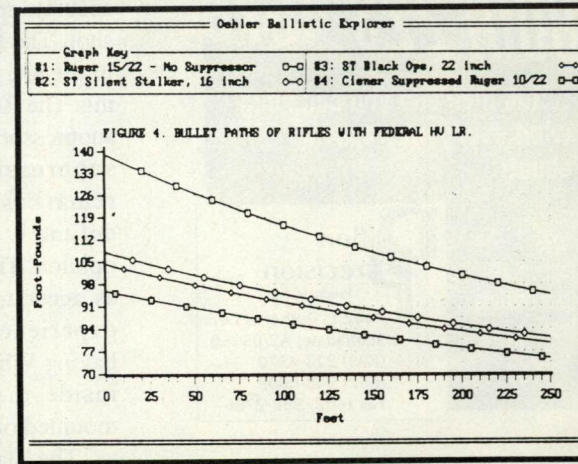
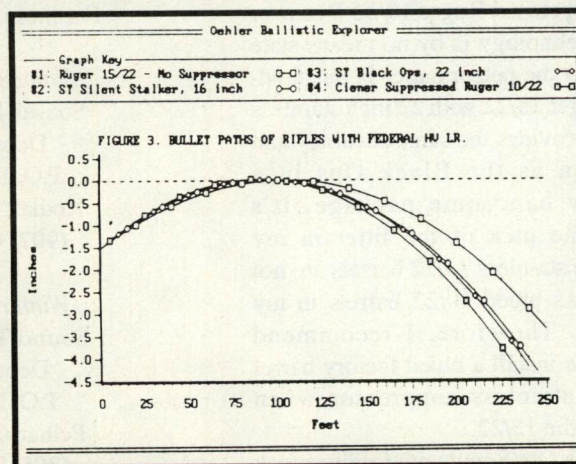
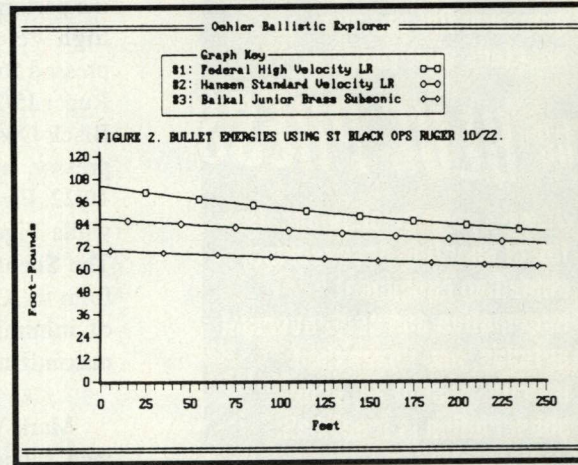
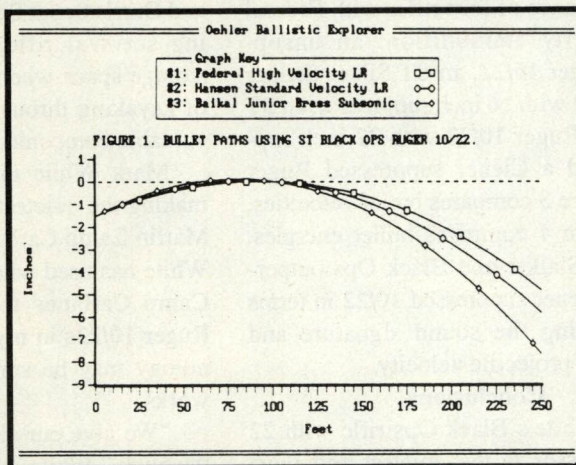
Tables 1 and 2 show

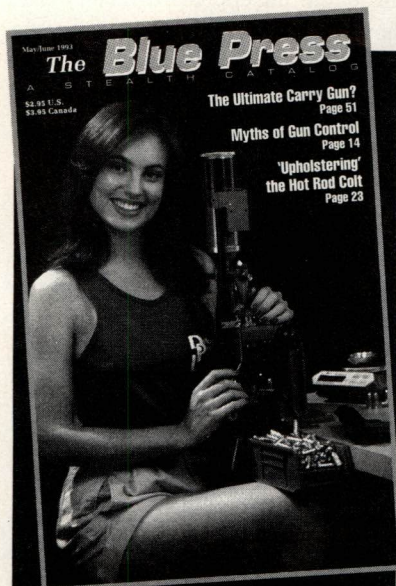
that the ST Black Ops Scout provides the same amount of sound suppression as John Norrell's shorty. Both White's and Norrell's 12-inch integral suppressors produce net sound reduction of 12 decibels with high velocity ammunition (compared

to a full-length unsuppressed factory barrel). They both slow projectiles to subsonic velocities. Compared to almost any full-length integral suppressor or modern muzzle can, a 12 dB reduction is not very impressive. Nevertheless, these compact systems can be used for many applications. Consider that their sound signature of 129 decibels is quieter than using subsonic ammunition with many 9mm submachine gun muzzle cans.

Table 3 shows that Mark White does not achieve sound suppression at the expense of velocity. Many other suppressed Ruger rifles produce projectile velocities that run 60 to 100 fps less than the ST suppressors. More velocity produces both more hitting power and flatter trajectory (which translates into better shot placement). The rifles with ST Black Ops and Silent Stalker suppressors produce similar velocities to Ciener integral suppressors, which are among the best integral suppressors in the marketplace for maintaining projectile velocities.

Figure 1 shows projectile trajectories produced by the ST Black Ops using high velocity, standard velocity and subsonic ammunition. Figure 2 shows bullet energies downrange. Figures 3 and 4 compare





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Table 2. Net sound reductions in decibels.

Gun	Suppressor	Federal HV	Hansen SV	Baikal JS subsonic	Baikal JB subsonic	Baikal Sniper subsonic	RWS subsonic HP	Temp. Degrees Fahrenheit
Ruger 15/22	ST Silent Stalker ¹	21	19	18	18	—	—	82
Ruger 10/22	ST Black Ops ²	26	26	27	26	25	—	82
Ruger 15/22	ST Silent Stalker ¹	19	17	—	—	—	15	33
Ruger 10/22	ST Black Ops ²	25	24	—	—	—	24	33
Ruger 10/22	ST Black Ops Scout ³	12	—	—	—	—	—	33
Ruger 10/22	Norrell Shorty ³	12	13	—	—	—	—	72
Daisy Legend	ST HV Option	20	—	—	—	—	—	33
Marlin 780	Ciener	19	19	—	—	—	25	83
Ruger 10/22	Ciener ⁴	21	19	—	—	—	22 ⁵	75

¹Suppressor is 16 inches long ²Suppressor is 22 inches long ³Suppressor is 12 inches long ⁴Suppressor is 18 inches long ⁵Action will not cycle with this round

Table 3. Projectile velocities and speed of sound for a given temperature, expressed in feet per second.

Gun	Suppressor	Federal HV	Hansen SV	Baikal JS subsonic	Baikal JB subsonic	Baikal Sniper subsonic	RWS subsonic HP	Temp. Degrees Fahrenheit	Speed of sound
Ruger 15/22	None	1,250	1,118	1,037	1,020	1,058	—	82	1,141
Ruger 15/22	ST Silent Stalker ¹	1,102	988	915	883	937	—	82	1,141
Ruger 10/22	ST Black Ops ²	1,083	988	914	887	928	—	82	1,141
Ruger 10/22	Ciener ³	1,038	992	—	—	—	780 ⁴	75	1,134

¹Suppressor is 16 inches long ²Suppressor is 22 inches long ³Suppressor is 18 inches long ⁴Action will not cycle with this round

the performance of four rifles with Federal high velocity ammunition: an unsuppressed Ruger 15/22, an ST Silent Stalker Ruger 15/22 with 16 inch suppressor, an ST Black Ops Ruger 10/22 with 22 inch suppressor, and a Ciener suppressed Ruger 10/22. Figure 3 compares bullet velocities, while Figure 4 compares bullet energies. The Silent Stalker and Black Ops outperform the Ciener suppressed 10/22 in terms of minimizing the sound signature and maximizing projectile velocity.

Conclusions

Mark White's Black Ops rifle with 22 inch suppressor is the quietest and most accurate suppressed Ruger 10/22 I've ever shot. The technology is by no means state of the art, yet the performance is outstanding. The Ruger 15/22 with 22 inch stainless suppressor provides the same accuracy and suppression as the Black Ops in a remarkably handsome package. It's definitely the pick of the litter in my opinion. The stainless 15/22 barrels are not as accurate as blued 10/22 barrels in my experience. Therefore, I recommend having White install a blued factory barrel inside the stainless suppressor when mounted on the 15/22.

The Black Ops Scout with folding stock

and Burris Scout Scope makes an outstanding survival rifle, which requires little storage space when I'm flying in the bush or kayaking through the wilderness. It's a valuable companion in wild places.

Mark White may be best known for making the quietest .45 caliber suppressed Marlin Camp Carbines in the marketplace. White has used what he's learned with the Camp Carbines to produce the quietest Ruger 10/22s in my experience. The technology may be simple in concept. But it works.

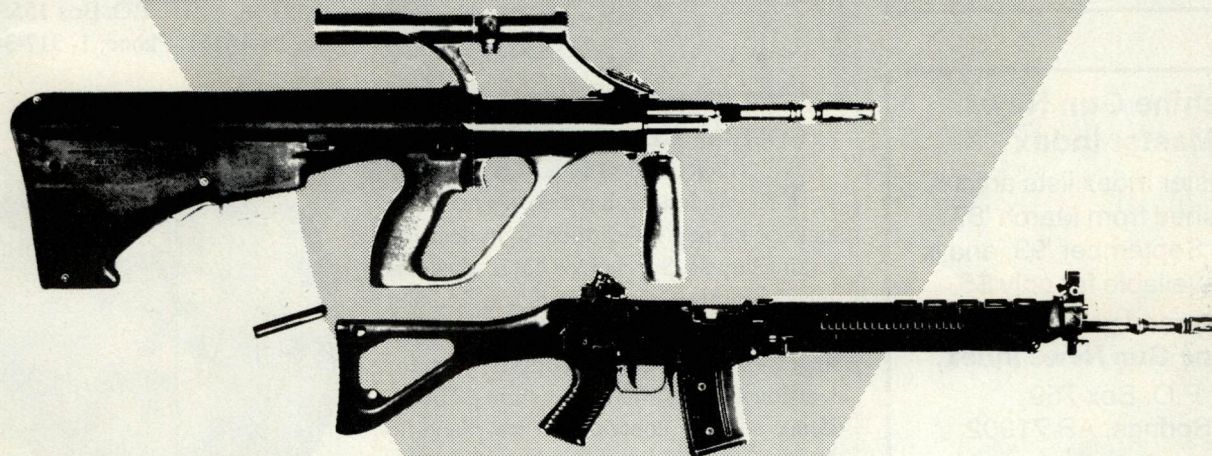
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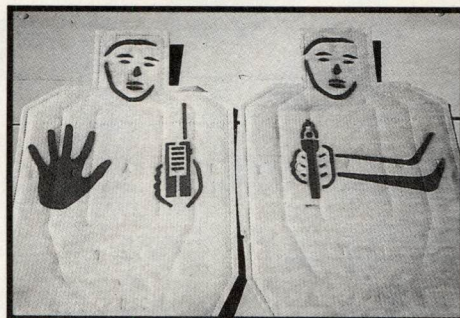
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makes a world of difference in the guns. He also has made a 52-round stick magazine for the .45 caliber guns that he tells me works beautifully. Sam has a wealth of information on improving and maintaining the Stemple guns. Contact him at SI-BAR CO., Dept. MGN, P.O. Box 1555, Martinsville, IN 46151. Phone: 1-317-342-9689.



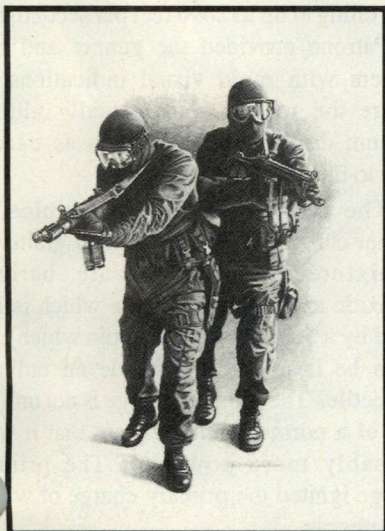
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H&R Handy-Gun Booklet Correction

The booklet, Variations of the Smooth Bore H&R Handy-Gun, that appeared in the October 1993 issue listed the wrong address. The correct address to order this booklet is Eric M. Larson PO Box 5497, Lakoma Park, MD 20913-5497. The booklet is \$10. PPD.

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The Ammo Bunker

by Dutch Hillenburg
The B. Patrone Cartridge

In movies and books such as Frederick Forsythe's *Day of the Jackal*, snipers and assassins used explosive bullets to insure the fate of their target. There's a great scene in the movie which shows a sniper using standard ammunition to sight his weapon in on a melon which represents the head of the target. The normal ammunition punches holes in the melon. One round of the explosive ammunition blasts the melon into fragments.

Explosive ammunition is quite exotic. Several small specialty loaders produce it, but most shooters don't know that it was fielded by the Germans and the Japanese during WWII. This article will explore the German variant known as B. Patrone or more formally Beobachtung Patrone which means observation cartridge.

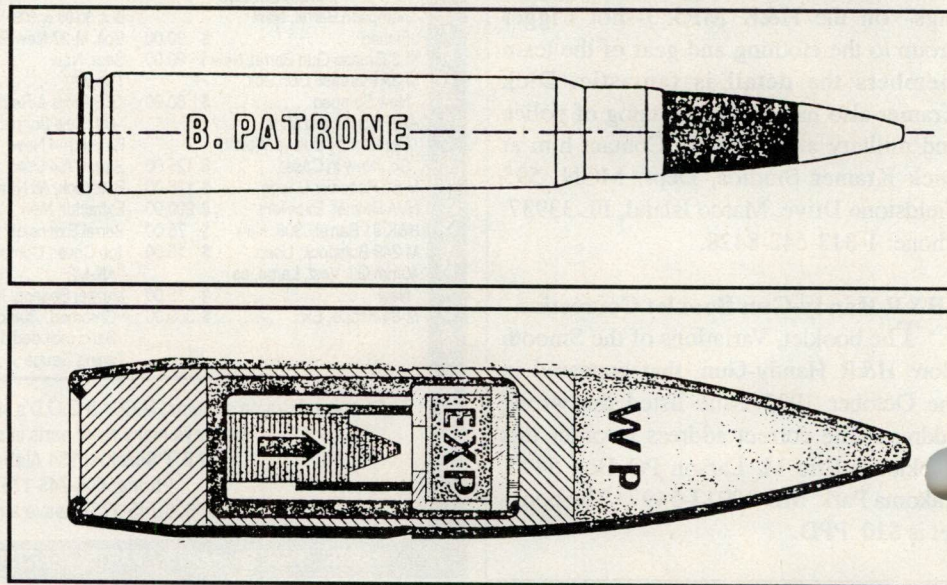
The B. Patrone is readily identifiable by its unique color coding. All but the first ten millimeters of the projectile are painted black as is the primer annulus of the cartridge case.

Even as late as 1938, the Germans were careful to stress the training and observation purposes of the round to prevent international protests that it was designed for use against troops. Used as a spotting round, the B. Patrone was excellent. Upon

impact with hard ground, the round produced a blue-white cloud which was visible at ranges of 2000 yards or more and frequently emitted a bright flash as well. Travelling at up to 2690 feet per second, the B. Patrone provided the gunner and observers with rapid visual indications of where the rounds were actually hitting without disclosing his position as tracers tend to do.

The B. Patrone used an explosive primer charge containing about 7 grains of a mixture of lead styphnate, barium peroxide and calcium silicide which is ignited by a 5 grain steel firing pin which can often be heard rattling inside an unfired projectile. The priming charge is not unlike that of a normal primer except that it was probably more powerful. The primer charge ignited the primary charge of white phosphorus.

Captured German cartridges used in post-war U.S. Army tests demonstrated that the round would consistently detonate on as little as a 2mm thick piece of aircraft aluminum or .125 thick steel plate respectively and that it would reliably ignite fuel and other flammable liquids. Other tests demonstrated that the rounds were quite stable and were unlikely to detonate acci-





dently. Clearly, the DWM design was truly excellent. The Americans were so impressed that they recommended that the design be adopted for U.S. service use in both .30 and .50 calibers.

Being practical people, the Germans soon expanded the round's use to aircraft machine guns of the Luftwaffe. Loaded at a ratio of 1 in 8 for bombers or 1 in 10 for fighters, the round's explosive blasts and incendiary effects doomed many Allied aircraft. Later in the war, the B. Patrone was personally approved by Hitler for use by snipers under strict orders which required accounting for each round fired, forbade snipers from giving rounds away and limited the rounds to the Eastern Front. Hitler considered the enemies to his East to be sub-human and refused to allow the B. Patrone to be used against the troops of "civilized" nations.

Daniel Kent's excellent book, *German 7.9 mm Military Ammunition 1888-1945* is the definitive work on the subject of the 8mm Mauser cartridge and provided the basis of this article. I recommend it highly. Exploding bullets are certainly exotic but obviously do have applications beyond those found in spy novels.

It is worth mentioning that the explosive bullets, produced by the Japanese during WWII, were of a far inferior design which utilized a highly unstable charge made of PETN. These Japanese rounds were dangerous when originally produced and present a danger to anyone who handles them, much less tries to shoot them. These original Japanese rounds usually have a three-element headstamp or no headstamp is present. The rounds are identifiable by a purple primer annulus, a white band at the case mouth and possibly a projectile which is rust colored or red with a brown band. Any or all of these clues might or might not be present. The Japanese were not terribly consistent. Keep that in mind when shooting that old Type 92 machine gun. Be safe people!

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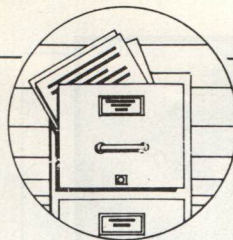
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The Forms

by DAN SHEA



Recently I have been using "The Forms" as a place to discuss legalities of government actions such as the Waco incident, instead of staying strictly with the filing procedures for NFA weapons. I am going to continue to do so. There is no better forum for what is being done to our Second Amendment Rights than in the place where the dealers, manufacturers, importers, military, law enforcement and end users are looking. Many of the BATF agents who've read *MGN* have had their eyes opened to the realities of our freedoms and the legitimate procedures that civilians must go through to own Class 3 firearms. Education can help us in our struggle to maintain our God-given and constitutionally guaranteed rights.

I have a lot of territory to cover this month, some legal, and some interesting NFA news. First, I need to ask whoever it was that gave me that cassette at Knob Creek to please send more info to me. As a reporter and a patriot, I need more background to work from.

First the NFA stuff. Transfers of machine guns that were manufactured by Ramo Manufacturing after 1986 are being held for investigation. Allegations of the restricted components of 1919's, M2HB 50's, and 1918 BAR's not having been completed by May 19, 1986, have surfaced and are being investigated by BATF. Numerous Class 3's have called in about their transfers being held up. It seems to center on firearms completed or leaving Ramo after 1990, but all transfers of ownership appear to be held up. Ramo has always had a good reputation in the industry, and I am hoping that the problems can get resolved quickly. I am trying to get the serial number ranges to report here next month.

Ramo spokesman Steve Sarles said; "The registered components, sideplates, receivers, etc, have been inspected each year in our compliance check, and these items have always been alright. This year, 26 M2HB sideplates were considered to not be in a state of completion that would qualify them as machine guns. When the information was sent to Washington, NFA froze Ramo transfers on many of our

machine guns, not just the 26 plates. We are trying to get this straightened out right now."

I'll update you all next month.

This next NFA goody (not so good, really) is going to require some lengthy background. Pre-86 law enforcement machine guns that are still in the possession of law enforcement are going to be treated as 922.0 firearms, Post-86 dealer samples. Let's go back to the beginning. Up until 1968, machine guns could be manufactured in the U.S. and owned by anyone who paid the tax called for in the National Firearms Act of 1934 (NFA). Machine guns could be imported for private ownership. In the 1968 Gun Control Act (GCA-68), taxes were "tightened up" on machine guns, thus, the so called "Amnesty." There was a period of three months (that was effectively only 30 days), wherein American citizens could register any firearms that they owned that fit into Title II of the GCA-68, the so-called NFA firearms: machine guns, silencers, short-barreled rifles and shotguns, Any Other Weapons, and the new category of Destructive Devices. Any of the above could be registered on a Form 4467, no questions asked. Thus the quantity of NFA firearms in states where it is illegal to own them. It is illegal for the U.S. Government to tell the States who owns these firearms, because it is privileged tax info, and not allowed to be given out. It was, after all, an amnesty. After 1968, you could no longer import NFA firearms for private ownership, but they could be imported as dealer sales samples, or for law enforcement use only. In addition there was the provision that law enforcement agencies could file a Form 10 to register any machine gun that was in their possession, for their own use, no questions asked. These "Form 10" guns can never be kept in private ownership, and if they were transferred out to a Class 3 dealer's inventory, they could only transfer to another law enforcement agency from his inventory. At the end of 1968, we had the following categories:

- 1 - Transferable Pre-68 Firearms.
- 2 - Transferable Amnesty Registered Firearms.
- 3 - Transferable New Manufactured.

4 - Dealer Sample Firearms.

5 - Law Enforcement Only.

6 - Form 10 Machine Guns.

In 1986, the McLure-Volkmer Firearms Owners Protection Act was passed, which helped stop the abuses of legitimate firearms owners at the hands of the Federal Government. A section was added at the last minute by the anti-firearms rights congressmen, that banned the manufacture in the United States of machine guns for private ownership. We call this section 922.0, and it became effective May 19, 1986. Much of the BATF's enforcement activity has surrounded whether certain manufacturers had indeed completed the manufacture of machine guns before that date, or whether they just filed Form 2's and completed the machine guns at a later date. If the guns were manufactured after May 19, 1986, the guns become subject to the restrictions of 922.0, and criminal charges usually follow. In 922.0, the exceptions for bringing machine guns into the country are as dealer sales samples with a letter from a law enforcement agency requesting a demonstration of that particular machine gun, or for use by a law enforcement agency. BATF says that these firearms may not be kept by a dealer after giving up his special occupational tax status, and may never be owned by individuals. This is based on the fact that these firearms are only allowed in at the approval of the government for that specific purpose, and the dealer who has purchased them understood that as a condition of receiving them that they were to be gotten rid of before ending SOT. The same goes for machine guns manufactured in the U.S. after May 19, 1986. We call both of these types "Post-86 dealer samples." They can not be retained after giving up SOT status. The machine guns that were imported into the U.S. from 1968 to 1986, both dealer samples and law enforcement only, have traditionally been able to be kept by the dealer on giving up SOT status, thus are sought after by dealers who wish to collect them. This is based in the Fourth Amendment's protection of private property from unlawful seizure. What the new ruling is going to mean is that any "Pre-86 law enforcement only" machine guns that

are in the hands of Class 3 dealers or people who were dealers but gave up their SOT status, may be kept as personal property. Any "Pre-86 LEO" machine guns that are still in the possession of law enforcement agencies will be treated as Post 86 dealers samples, subject to the same treatment as newly manufactured or imported machine guns. They can only be transferred to SOT's Class 1, 2, or 3, or to law enforcement agencies, and require a demonstration request letter from a law enforcement agency before they can be transferred to an SOT. Here are the new categories of registered machine guns in the United States today:

- 1 - Transferable Pre-86 Firearms.
- 2 - Transferable Amnesty Registered Firearms.
- 3 - Pre-86 Dealer Samples.
- 4 - Pre-86 Law Enforcement Only, in dealer possession.
- 5 - Pre-86 Law Enforcement Only, in law enforcement possession, restricted as 922.0
- 6 - Post-86 Dealer Samples (922.0).
- 7 - Post-86 Importer Samples - can go to importers only (922.0).
- 8 - Post-86 Manufacturer's R&D, must leave the US or be destroyed.
- 9 - Form 10 Machine Guns - law enforcement only.

This change came about when a rather large quantity of Pre-86 LEO machine guns transferred out of a government agency, and ended up in the hands of dealers as "keepers," acting as a beacon to those who don't want machine guns in private hands. This large group illustrated that there were quite a few machine guns in law enforcement hands that could leak into private ownership. There are several police departments that I have tried to trade into newer machine guns, and my value for the trade was said to be too low. A dealer would reasonably give \$600-800 for a Pre-86 LEO Uzi or Greasegun, \$1200-1500 for an MP5. No more, guys. Your piece that you were convinced was \$2500 at least is now worth \$200, maybe \$400 for the MP5. I think we will see an increase in the value of Pre-86 dealer sample and LEO in dealer hands machine guns.

I have heard of quite a few machine guns in police departments around the country of late, that are not registered at all. Quite a few sawed-off shotguns, also. I want to re-iterate here that law enforcement agencies are not exempted from the registration requirements. Get some Form 10's and get in compliance—those machine guns are felonies waiting to happen.

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Q I am a Type 01 FFL holder. I understand that I may purchase machine guns without going through a Class 3 dealer. Am I correct, and if so, what is the procedure?

A.M.

A As a Type 01 FFL holder, you may purchase machine guns or other NFA firearms interstate from Class 3 dealers, Class 2 manufacturers, Class 1 importers, other FFL holders including C&R Type 03 FFL's, law enforcement agencies, and individuals. These are Form 4 tax paid transfers, requiring the \$200 transfer tax (\$5 for AOW's) except from a law enforcement agency or in the transfer of a registered De-Wat, which are both done on Form 5's, tax-exempt. You still need the finger prints, photographs, and law enforcement signature like any other non-special occupational taxpayer. The only difference is that, once you have complied with the NFA transfer tax laws, as a Type 01 FFL (firearms dealer), you may receive firearms interstate. This includes destructive devices. On DD's that have explosive materials in them, watch out that any Federal, State and Local explosives laws are followed also.

Q I've bought a Federal Ordnance M1 carbine receiver from Gun Parts Corporation and in assembling this gun I would like to use all of the parts except for the ones that would get me in trouble. I heard once that there were three of them but I don't know where to look for this kind of information. Could you please advise?

D.F.

A There are seven problem children here. Use of M2 full auto hammers, trigger housings, sears, selectors, selector springs, slides, or connector bars in a semi-auto M1 carbine can bring the heat down on you. There are a set of comparison drawings between the M1 and M2 internals in the *Machine Gun Dealers Bible*. The hammer seems to be the biggest bad guy of the seven.

Q I enjoy *The Forms* column a lot. I was curious about the tabulations of BATF data in the May 1993 issue. How come there is data for the period before 1934? I thought before the National Firearms Act in 1934, machine guns, suppressors, etc. were not regulated under federal law.

A BATF has accepted various documents to authenticate and register NFA firearms, including original invoices of purchase (Pre-1934, so they show as before 1934), letters to the government from manufac-

turers before 1934 - detailing firearms that were in their possession, and some letters from individuals. Remember that the NFA Registry was only recently computerized, and during the 1968 Amnesty many firearms were registered using a simple letter to the government. Some of these records are fairly ancient and obscure. Those Pre-34 records are the product of years of paper shuffling and trying to fit square pegs into round holes.

Q All of the rumors about possible legislation restricting the future possession of 01 dealer licenses has got me concerned.

I now possess a Type 01 dealer license, a Class 3 Tax Stamp, and a Type 03 C&R license. My concern is with my Pre 86 dealer sample MG-34. If necessary could I transfer my MG-34 from my 01 book to my 03 C&R book and keep it as my personal property? If this is not legal, what is?

P.R.

A Well, the dealer sample machine gun can never go on your C&R license. As long as you are a sole proprietor, you can keep the Pre-86 dealer sample when you end your Class 3 status. If you are worried, try filing a Form 4 with the \$200 tax to yourself, front only, no fingerprints. If it flies, you will be protected, if not, wait until you let your SOT lapse, then it's yours.

Q Please answer my question about residence and the ownership of Class 3 firearms and suppressors. If a person moves from a state that allows ownership of these items to one that does not, can a person maintain legal "paper" residence in one state for the purpose of keeping his previously acquired Class 3 collection? An example: A person was a machine gun dealer in Texas for 5 years during the 1980's, he acquired dealer sample and transferable machine guns and some suppressors. He drops his Class 3 license at the end of the 80's. During the 90's he plans to move to a non Class 3 state. He maintains official residence in Texas and stores his Class 3 weaponry in that state while living and working in another state. This person is honest and tells the BATF in advance about his moving plans. Does BATF permit such an arrangement?

J.R.

A As long as the NFA firearms are in your possession, not accessible to other people (a building you own or a bank safe deposit box) you should be alright. I'd talk to NFA Branch first, and give them the details and address of your "safe storage."

Q Regarding: The Forms, July 1993 page 50, your first article peaked my interest. Quote "BATF called in and verified the license". Does this mean that if a person claims that he is a government agent, you take the time to call in and verify they not honor the licenses they issue? Once having verified the guy's license, why didn't everyone leave save for one agent to explain? Having all those people there, guarding a legal enterprise appears to me to be a waste of tax dollars. Your opinion.

Don

A The Class 3 world is an exotic and interesting place. When the "Regular Joes" out there run into a full tilt Class 3, unexpectedly, it gets their attention. Many law enforcement and BATF personnel have a hard time believing that civilians can legally own some of the firepower that is out there. I don't blame them for being as thorough as possible. Usually, those same guys will dive for a chance to try the NFA firearms, once they are sure they are dealing with a legitimate citizen. It's also a good "in" to start dealing with the guys on the department. Regarding checking in on any person who tries to gain entry to your premises or property, representing themselves as a government agent or police officer, you are nuts if you don't. Call and explain that you need to call and verify who they are, and may I see some I.D., please? Don't use the phone numbers they provide, and give a physical description of the person to verify it's not a fake or stolen badge. Learn to be just a little bit paranoid.

Disguising themselves as police is a favorite tactic for rip-off artists, rapists and thieves. This is the same reason that the argument between law enforcement professionals keeps going on—Officer "A" favors kicking in the door at 3 AM, shouting "Police," and waving guns at the bleary faces, while officer "B" prefers to catch the subject walking alone somewhere or call him at home during the day. Most gun dealers react to a midnight raid by guys with guns and ski masks as you would expect—a firefight if they are awake, if not—getting shot while in their underwear, fumbling for their .45. The same gun dealer will collapse, shivering at the phone call that there is a warrant for him from BATF, and what can he do to help, should he come downtown with his lawyer? Theatrics, people killed, eventually. Waco didn't open overnight. There was a slow build up of offensive raids, then the line finally got crossed. The professionals in BATF should

rein in the hot-dogs before there are more disasters. Save the firefights for capturing the violent criminals.

Q I have been an avid reader of *MGN* for the past several years and enjoy it cover to cover.

I have a question concerning transporting NFA weapons across state lines. I have been told that if your Form 4 lists a person's FFL number, even if he is only a Type 01, you do not need to obtain permission from ATF to carry your firearm across state lines.

I have several NFA firearms and have my 01 license number on the Form 4's. In the past I have obtained the transfer permit from ATF. Also, does a destructive device on a Form 4 need anything special to cross state lines?

Earl

A In all cases above, you need an approved Form 5320.20 to transport an NFA firearm interstate. A short quote from the "red book," *Your Guide to Federal Firearms Regulations*, should suffice to clear up a lot of similar questions:

Title 27, CFR. 178.28, 7-c

This section shall not be construed as requiring licensees to obtain authorization to transport destructive devices, machine

guns, short-barreled shotguns, and short-barreled rifles in interstate and foreign commerce. Provided, that in the case of a licensed importer, licensed manufacturer, or licensed dealer, such a licensee is qualified under the National Firearms Act (see also Part 179 of this chapter) and this part to engage in the business with respect to the device or weapon to be transported, or in the case of a licensed collector, the device or weapon to be transported must be a curio or relic.

Q I am a resident of Florida and own a tax stamped NFA firearm. Unfortunately, I have a rather serious health problem that has no known treatment or cure at this time (CFS). As this illness takes its toll I face an uncertain future. My brother, who lives in Illinois, is the sole beneficiary in my will. Illinois law prohibits private ownership of machine guns and my brother is not an SOT. Therefore, he cannot lawfully inherit my NFA firearm. I have a friend here in Florida who is a Class 3 dealer. He has agreed to liquidate this asset from my estate if necessary. What procedures does ATF require for the lawful disposition of this firearm under the aforesaid situation?

Woody

A Sorry to hear about your condition. It seems a shame that you can't even keep your personal memento in the family, but, with Illinois law the way it is, you are stuck. The transfer of NFA firearms from an estate can be done on a Form 5, tax exempt, to a lawful heir. In most states, a lawful heir can be anyone designated in a legal will. Have your attorney add your friend to your will, to specifically inherit this NFA firearm, being clear if he has to pay the estate, or if he is to pay after he sells it, or if he is to retain it as his personal property. Best of luck to you.

Q Can you tell me what the registered component on the Vickers gun is?

A In the October 1992 issue of *MGN* (Vol. 6 No. 5), I did a chart in "The Forms" that detailed the registered component of most of the machine guns you are liable to run across in the United States. I spoke with NFA Technology Branch again about the Vickers, and they re-iterated that seated behind the Vickers, in the firing position, looking from the spade grips to the barrel jacket, the right hand sideplate is the registered component.

(The Forms continues on Page 15)

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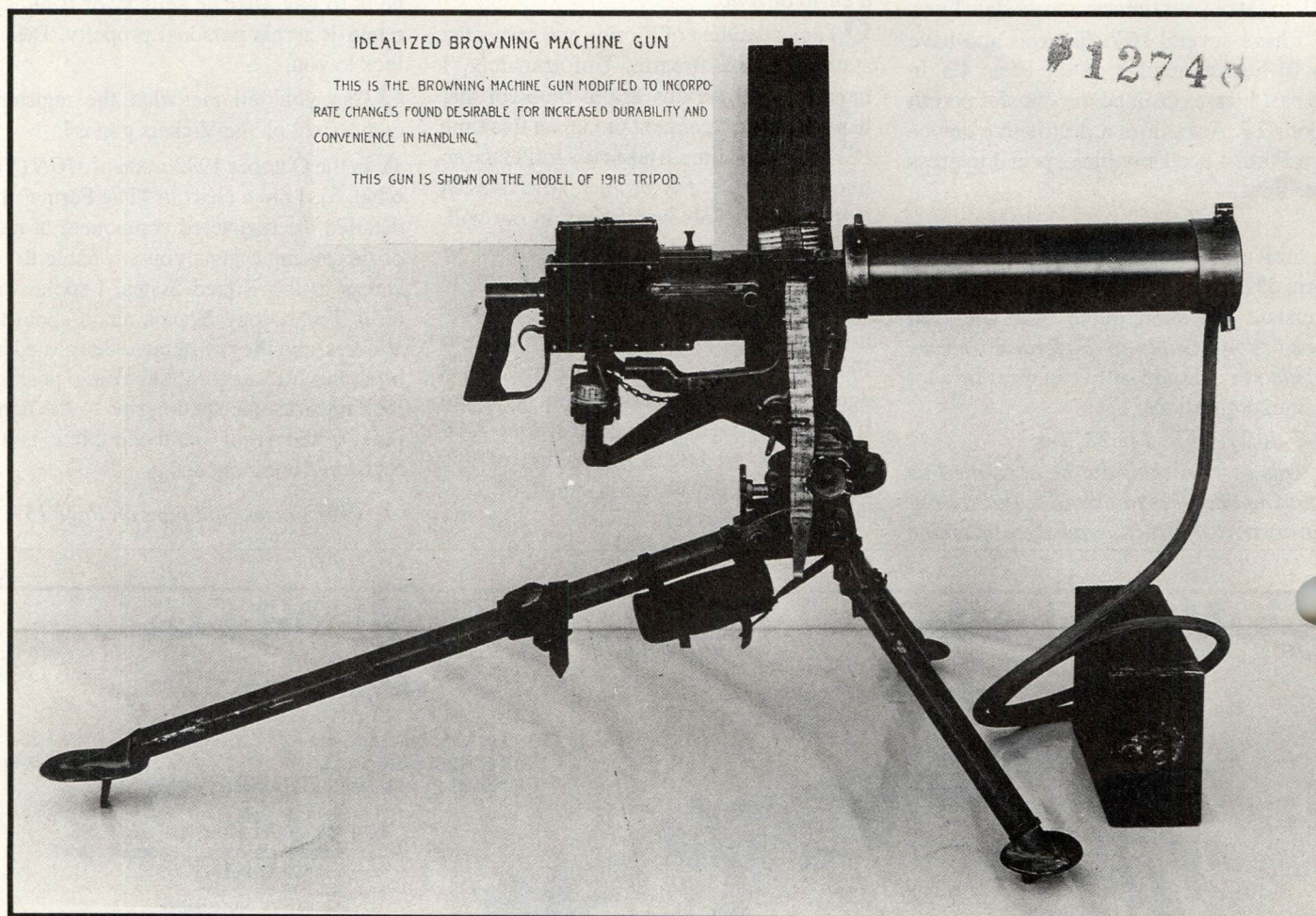
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Archive Photo of the Month

From the Robert Bruce Collection



(Location and Date unknown) Possibly Springfield Armory circa 1920's. WWI service and subsequent testing of John M. Browning's excellent Model 1917 water-cooled machine gun pointed up some weaknesses in durability. Ordnance Corps engineers went to work and came up with this "Idealized" modification. External examination shows reinforcing plates on the side (later known as the M1917A1 modification), and a beefed up casting for the muzzle end of the water jacket. Note also the trigger guard on the pistol grip. Credit: National Archives and Records Administration. 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.**

ALL WAS NOT QUIET ON THE WESTERN FRONT!

The First World War, The Great War, The War to End all Wars was the greatest carnage in human history. Technology had outstripped tactics. Cavalry charged machine guns and men used bayonets against tanks yet through its four long years was heard the ever constant chatter of the watercooled machine guns as they harvested Europe's young manhood. Ironically these "Death Machines" on either side, were the brainchild of an American inventor, born in Maine, who became a British citizen and was knighted for his achievements; SIR HIRAM MAXIM. Sadly Sir Hiram died in 1916 appalled by the devastation his inventions had created when his only dream had been to create the ultimate weapon to end all wars.

Now seventy-five years after the close of World War One the most amazing cache of Original German Issue WW1 Maxim M.G. material has been released by the Turkish Government, an ally of Germany in the 1914-1918 war. This material, including many items almost unheard of previously on the collector's market has been catalogued by the well known expert Mr. Dolf Goldsmith of San Antonio, Texas whose definitive book on Maxim Machine guns "THE DEVIL'S PAINTBRUSH" is the foremost work on the subject. Below is a partial listing of the material Mr. Goldsmith has identified for the collectors market with cross references to his book to provide additional information.

German WW1 250 round cloth ammunition belt with brass spacers. Well preserved in very good condition, quantity limited. **\$100.00** (XM1026)

Interwar 250 round ALUMINUM belt developed for easy hand loading for use with the 08 Maxim, the .303 Vickers and 08/15 Maxim using the 08 Feed pawl without finger guide. Works wonderfully. (See Devil's Paintbrush, page 350, 2nd edition). **\$ 75.00** (XM1000)
Three belts. **\$195.00** (XM1000a)

Similar Interwar belt to the Aluminum model but of steel construction, presumably for heavy duty use, scarce. **\$100.00** (XM1027)

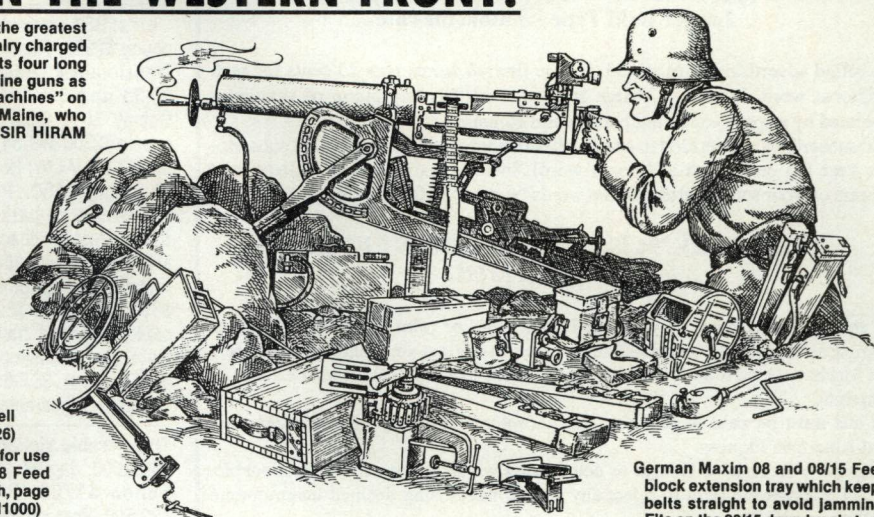
German WW1 Steel Ammunition Can (PATRONENKASTE 15), this model 1915 all steel 250 round can was the forerunner of the WW2 MG34 can commonly encountered. Very slightly different in construction to the WW2 can this was the first 250 round steel can to be adopted by the Germans. WW1 production. Good/Very Good condition, empty can. **\$ 25.00** (XM1028)

German WW1 Water Can Model 1916. These are the original rectangular water cans that were designed to be the same size as the 1915 ammunition can for ease of carrying. Extremely difficult to find, complete with swivel water spout. (See Devil's Paintbrush, Page 196, 2nd edition). **\$195.00** (XM1029)

German WW1 08/15 100 round Ammunition Drum (Trommel Patronenkasten 1916). These drums attached to the side bracket of the 08/15 to allow easy weapon maneuverability. German markings. Complete with reel, good to very good condition, very scarce. **\$350.00** (XM1030) (See Devil's Paintbrush, Page 166, 2nd edition)

German WW1 Maxim Barrel Carriers, made to carry either one or two barrels. Wartime issue was four barrels per gun so carriers were an essential accessory. Carriers came in all steel or in leather covered wood and are offered in Very Good Condition as follows:

Single barrel leather carrier. **\$125.00** (XM1031)
Single barrel steel carrier. **\$150.00** (XM1032)



German Maxim 08 and 08/15 Feed block extension tray which keeps belts straight to avoid jamming. Fits on the 08/15 drum bracket; extremely rare and highly desirable for the 08/15 Maxim. **\$125.00** (XM1025)

Double barrel leather carrier. **\$150.00** (XM1017)
Double barrel steel carrier. **\$200.00** (XM1018)
Note: The double barrel steel carrier is also fitted with a compartment to carry a cleaning rod (not present). (See Devil's Paintbrush, Page 192, 2nd edition)

German 08 Maxim barrels 7.92mm, Best Grade, almost like new. **\$175.00** (XM1019)
Very Good condition. **\$125.00** (XM1020)
Very Good condition. Three for. **\$300.00** (XM1021)

German WW1 Maxim Blank Firing Attachment with soaking can. Very scarce and in Excellent condition. **\$250.00** (XM1008)
(See Devil's Paintbrush, Pages 193/4, 2nd edition.)

We have a few Blank firing attachments NOT in cans at **\$175.00** (XM1022)

German 08 Maxim Muzzle booster assembly with soaking can (optional circular flash shield not included), excellent condition. (See Devil's Paintbrush, Pages 193/4, 2nd edition). **\$250.00** (XM1009)

German 08 Maxim locks complete, Serial numbered and proof marked in Very Good/Excellent condition. **\$ 75.00** (XM1023)

We also have a few Unnumbered Armourer's locks which were issued as replacements also in Very Good/Excellent condition, just perfect to complete your gun. **\$125.00** (XM1024)

German Maxim WW1 Optics direct fire sight made by Emil Busch of Rathenau, fully operational, complete in original leather case. (See Devil's Paintbrush, Page 182, 2nd edition). Very Good Condition. **\$350.00** (XM1037)

German Maxim WW1 Optics direct fire sight made by Ernst Leitz of Wetzlar, fully operational, complete in original leather case. All these direct fire optics sights were 2.5 power and officially designated "Zielfernrohr 12" commonly referred to as "ZF 12". (See Devil's Paintbrush, Page 182, 2nd edition). Very Good Condition, very few only, very rare model. **\$495.00** (XM1038)

German made Sight Director for use in directing combined fire of a platoon of guns, illustrated on page 185 of Devil's Paintbrush. Combination western and Turkish numerals, complete in leather case. Very scarce terrific German quality, excellent. **\$350.00** (XM1040)

German made Protractor used to layout angles of direction for indirect fire. An intricate and interesting instrument used in conjunction with the indirect Fire Sight. Illustrated on page 185 of Devil's Paintbrush. Complete with original Carrying Case, rare. **\$250.00** (XM1041)

AUTOGRAPHED copies of the expanded second edition of "The Devil's Paintbrush - Sir Hiram Maxim's Gun" (XB001), available @ **\$69.95** from I.M.A. or direct from the author: Dolf Goldsmith, 800 Isom Road, Suite 202, San Antonio, Texas 78216.



German WW1 Maxim Cartridge Case Tongs, used to remove cartridge cases that have dropped into the receiver. Issued with each Maxim tool kit and fitted to each Sled Mount. (See Devil's Paintbrush, Page 187, 2nd edition). **\$ 40.00** (XM1011)

German WW1 Maxim Chamber Cleaning Tool, angular construction to reach into chamber without disassembling barrel. Issued with each Maxim tool kit and fitted to each Sled Mount. (See Devil's Paintbrush, Page 187, 2nd edition). **\$ 40.00** (XM1006)

German WW1 Maxim Belt Loader, complete in original wood chest with all tools, excellent condition; few only. (See Devil's Paintbrush, Page 190, 2nd edition). **\$500.00** (XM1033)

German Shoulder Stock for the NAVAL MG 08 Maxim, extendable in length, wood shoulder piece; fits on studs on Naval Maxim (See Devil's Paintbrush, Page 143, 2nd edition). Also used on Argentine and other early Maxims. So rare no example was available to photograph previously. **\$250.00** (XM1034)

Detachable Maxim Shoulder Stock, hinges on lower backplate pin and clips against top handle bracket. Believed to be an interwar accessory for use with the "spider" anti-aircraft sight listed separately. Very scarce and unusual. **\$100.00** (XM1035)

Maxim anti-aircraft "spider" sight with bayonet base fitting, introduced in the interwar period and found on the Chinese type 24 and other contracts. (See Devil's Paintbrush, Page 328, 2nd edition), Excellent. **\$ 30.00** (XM1036)

Fabulous combination Indirect Fire Sight and Sight Director, designed to attach in the regular ZF 12 Optics bracket. German made in 1929 for Turkish Contract but marked in western numbers. Appear fully operational, complete in leather case. Exceptionally rare, not previously encountered, Very Good/Excellent, very few. **\$300.00** (XM1039)

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Marlin Rockwell M1917 potato digger, 30-06 museum quality, \$4000; original military H&R M14 with sharp cartouche, looks unfired, \$4500; 1917A1 C&R \$3600; original Savage US Navy Lewis Gun with 6 mags and mag holder, .30-06 \$4250 (406) 652-5927 after 6pm MST (xmar)

Colorado Class III dealer will handle your transfers and Class III needs. All NFA rules apply. I buy older collectable belt-fed. The Machine Gun Lady - Julie (303) 648-3395.

Must sell ASAP!!! Post dealer MP5A2 real German gun bought from Springfield Armory, complete with original six magazines and carry pouches, sling. \$700 Sendra M16A2 complete lower assembly \$1000... All NFA rules apply Bob (508) 747-4455.

West Kentucky Residents, Stocking Class 3 dealer have Colt, UZI 1918 A2 and S&W-76's. Will also handle in and out of state transfers. Mastercard and Visa accepted. Call or Fax (502)554-5470. (xjan94)

Convert M60 7.62 MG into a new, lighter M60 E3, all Mil spec. part's also buying E3 parts new or used. Contact Patrick McKinney at Cal. 714-956-7566 or K.C. KY 502-538-3625. (xbjan)

Pre 86 samples: Uzi, Mini Uzi, Galil SAR, Browning M37, FN G1, HK MP5A3, all NIB plus extras. Transferable: Colt M16, 614, M16A1, M16A2 call, Thompsons, MACs, some one of a kind. SAR-48 Para NIB gun #1 SF-1000, IOG #24, Post 86 M-60 (210) 698-1485 voice mail or (210) 1385 Keep trying. You pay for quality. (xjan)

Colorado, Law Enforcement and Residents, Dealer will handle your Class III needs and process transfers for qualified residents. John: days(digital pager) 303-230-7614. eves 303-674-1760. (xfeb94)

Wanted: Augs, black, 16", exc. To as new. Top price for quality, mags, etc. 702-831-7398. Fax 831-5223 (xmay)

Machine Gun list/ Send SASE for list of transferable & Pre-May sample guns T. Fort, PO Box 7447, Jacksonville, FL 32210 (xjan)

Hotchkiss 37mm revolving cannon 100% restoration. Excellent shooting condition. Reloading tools, brass & projectiles avail. \$42,500 37mm USN heavy 1-pounder on Naval landing carriage. Lots of brass etc. rare model, good shooter! \$17,000 75mm Krupp 1873 BLR on steel Garrison carriage, as new! Perfect bore \$12,500. Special massive reloading press for .50 cal BMG, 20mm Lahti, 23mm Soviet, 14.5 Russian etc, etc. Dies, shell holders "maxi-measure" powder measure for big stuff 0-700 grains etc. Catalog with all this and lots more only \$3. Old Western Scrounger 12924 Hwy A-12, Montague, CA 96064. "Specialists in scarce ammunition up to 40mm" (x)

Stoner 63A parts, accessories, literature, information, memorabilia needed. Jerry (217) 826-2919 (xjul94)

Tarrant County Texas Residents. Class 3 sales and transfers. Call Bob at "Bob's Guns". Message number 817-561-9054. Calls will be returned. (xapr)

We've moved! Machine Gun News new phone number is (501) 525-7514. New shipping address is 738 Lakeshore Dr. Hot Springs, AR 71913. Mailing address is the same.

Massachusetts Class III Dealer Class II Mfr. Stocking dealer if I don't have I'll get it for you satisfaction guaranteed! I back every thing I sell A.O.W.'s \$5.00 transfer tax MA residents can buy with a pistol permit and form 4 completion. Mossbergs 12 ga. 20 ga. and 410's barrels 8" & 12.5" from \$395.00. Mossberg 5500 semi-auto A.O.W. \$495.00. Colt 9mm SMG L NIB reg. rec. and remarked by the best John Norrell 12 mags arms mount with laser 2 uppers \$3495.00 (B.O.) Lafrance M16K 8" 223 only 20 made L NIB with acc. \$3295. or B.O. Many more call for prices trades welcome open 7 days out of state 01 FFL call! The Gun Man all day or eve till 11:00 est at 508-858-0986 voice/fax (xjan94)

Reising Model 50. .45 cal 30rd magazines \$55 blue plus \$5 for shipping, also parts and accessories, send long SASE for more information. Dealers send FFL to: KC Enterprises Inc. MGN, 7240 South Ridge, Madison, Ohio 44057 (xjan)

Massachusetts Residents Let me handle your Class II & III needs. Large inventory of quality machine guns in stock for immediate transfer. Will do conversion on your HK guns. We are buying, trading, and will do transfers. Alpha Arms Paul. (508)478-3393 (xjan94)

C&R Licensees Class II transferable machine gun. All NFA rules apply: Super rare 1 known WWII MP45 100% complete, 2 digit serial # not for the faint of heart POR. Many accessories available. Call after 5pm Hermann (718) 278-3708 NY (xdec)

Texas transfers Class III for qualified individuals. All NFA rules apply. Skotz Ordnance Services, Austin, Texas (512) 250-5050 Tuesday-Friday (xmay)

H-Bar Olympic Arms machine gun barrels for M16, ready to install, 1 10in. and 1 11.5in. test fired only and work great, \$150 each. Call Ron (219) 662-9857. All NFA rules apply.

Wanted: Original Bayonet attachment and handguard as found on World War I and II Winchester M-97 and M-12 12 gauge trench guns. Call John at (205) 270-9975 after 6:00 pm Central Time. (xbjan)

Marlin Rockwell M1917 potato digger, 30-06 museum quality; \$4000; original military H&R M-14 with sharp cartouche, 100% unfired, \$4500; 1917-A1 C&R, \$4500; original Savage US Navy Lewis Gun with 6 mags and mag holder, 30-06, \$4250; (406) 652-5927 after 6pm MST (xdec)

PA Residents S&W 76 with 5 mags \$1395. US GI infrared scope with M14 mount \$900. 50 ammo \$1 each. US GI 50 tracer \$1.75 each. 308 Chinese 900 rds \$90. 8mm Yugo 1200 rds \$100. Call Andy at (412) 532-0294.

Panzer division manuals for sale. Tactics of the German Armoured Division 63 page pamphlet \$3. Tactics of the Panzergrahadier regiment 23 pages \$2. Translated into English from WWII German manuals. Send \$1 S&H to Gajkowski PO Box 360332, Strongsville, OH 44136.

50 cal. BMG GI surplus ball \$1.60 rd. Tracer \$2.25 SS 109 \$22.00 per hundred. We also stock rifle and pistol tracer and incendiaries. Call Dan. Evenings 1(314) 275-8840 (xjan)

Your questions will be answered with the Machine Gun Dealers Bible: Getting a license, understanding paper work & legalities, etc. Available to all. Further information inside protective cover.

Heckler & Koch MP5K-PDW new, unfired, transferable with original HK threaded 3-lug barrel and folding stock \$3295. Steyr AUG Green 20" Semi, NIB \$2450. HK 93 mint condition collapsible stock \$1495. Bruce Nelson (602) 825-9047. (xfeb)

"Textbook of Automatic Pistols" by Lt. Col. R.K. Wilson, Royal Artillery, British Army, originally published by Samworth, 1934. Limited edition hardbound reprint includes history, development, ammunition, functioning of modern military pistol, evolution into sub-machine gun, supplement chapter on light machine gun. Available exclusively from Mike Stegen Sales, 19030 N. 14th St., Phoenix, AZ 85024, (602) 582-4475. Send check or money order for \$40.00 each, shipping included. (xdec)

Wanted: HK 53A3 machine gun. Must be pre-86 Dealer Sample of original German Mfg. and in 100% NIB condition (HK Chantilly import if possible). Call or write RW Gruetzmacher, Wolfgang Enterprises, PO Box 549, Alvin, TX 77512. (713) 585-8550 after 6pm. CDT or leave message. (xfeb)

For Sale: AWC Ultra .22 LR suppressor mounted on Savage-Anschutz model 141 bolt action rifle, NRA excellent, \$900; SCRC Mk-4 .308 Win. Suppressor with Steyr model SSG. 69-PIV urban rifle, suppressor and rifle are NIB, \$2600. Payment in full along with signed in ink copies of FFL, SOT and Class 3 Dealers letter of intent required. Call or write RW Gruetzmacher, Wolfgang Enterprises, PO Box 549, Alvin, TX 77512, (713) 585-8550 after 6pm. CDT or leave message. All NFA (ACT) rules apply. (xdec)

Dealers Wanted- to sell the fastest selling gun related merchandise for gun shows. We manufacture bumper stickers, borelights, gun cleaning patches and we are the largest distributor of military manuals in the Southeast. Also available the Hide-A-Belt holster, the new under-the-dress holster. If you are not making 200% to 300% profit send \$2 for our catalog. A.G. Sales, Rt.2 Box 166, Collins, GA 30421 (xjan)

Colorado Residents: Let me handle your Class 3 transfers. All NFA rules apply. Call Robin at (719) 495-0675 (after 5pm) (xfeb)

British Ferret scout cars, armored vehicle, street legal! Stops traffic, turns heads! Turret holds BMG 1919A4, periscopes, have several \$9500 up. Call ask? Free photo/SASE. Photo/literature package \$8; book \$11. MG trades? Wanted: Sterling L2A3, M60, 37mm towed gun. (410) 276-7041 evenings. WWII Weasel (track) \$3300. (xmar)

Factory Colt 9mm 32 and 20 round mags, factory Colt 223 30 rd mags, factory Ruger 30 rd mags, Mac Stingers, Colt 9mm SMG with drop in auto sear, AO Thompson 1928, HK MP5A3, Select Fire Beretta BM-59 Nigerian, Steyr aug black 16", HK 93&91, Ithaca, Stakeout, Mac-10 45 & 9mm original PS. Everything in this ad is NIB or mint. All NFA rules apply Keith (503) 663-1082 (xjan)

Collection for sale: All machine guns are NEW IN BOX or MINT condition. Pre-86 Dealer Samples, Call for pricing list. Serious inquires only. Call day (203) 350-3371, fax (203) 350-3381 (xmay)

MG belt linkers - M60 and others \$140 small, \$220 large. Cloth belt linkers \$125. .308 conversions \$35. Freight please. Hahn Machine, 3101 Sussex, St. Charles, MO 63301. 314-946-9567 (jul94)

PA Residents: Machine Guns and Suppressors are still legal for individuals to own. Stocking AWC products, HK, Thompsons, AUG's, UZI's, Sten's, MAC's and more. For all your Class 3 needs call JONES GUN SHOP (215) 433-7073 (xapr94)

AWC Suppressors: CQB for AR15/M16, new technology, \$545; TAC 9 MP5 3 lug \$495; Amphibian pistol .22 LR \$875. Colt AR15 9mm green label \$1050. All units are new, unfired. Call Chris, Public Safety (203) 438-6017. After 5pm EST. (xfeb)

Northeastern Pennsylvania area Law Enforcement Agencies and residents—Stocking Class III dealer will assist you in your weapons selection. Sales and Transfers available to qualified Pennsylvania residents. Call John at (717) 629-3403, Voice and Fax. (xdec)

All NIB: MP5A2 (S&H) \$3250 & MP5A2SD (S&H) \$4050. AS A3's Add \$200. MP5K (S&H) \$2425. Call John (713) 474-3308. (xjan94)

Sterling MK-6 exc + \$2750./PPS-43 \$2450./ZB-26 Chinese 8mm w/extras \$3650. (904) 388-1200 Tom 9-5pm EST NFA rules apply (xjan)

Lewis .303 BSA \$2950./ Hotchkiss MK-1* .303 exc. + w/ "crow foot" tripod \$2350/ AVT-40 full auto \$1750 (904) 388-1200 Tom 9-5pm EST NFA rules apply (xjan)

Maxim 08/15 receiver and jacket assembly stripped - transferable Amnesty registered. \$950 (904) 388-1200 NFA rules apply (xjan)

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DALLAS COUNTY Texas Class III stocking dealer; buying/selling/transfers to law enforcement, federally qualified individuals and dealers. All NFA rules apply. Call Chuck (214) 226-9137. (xnov94)

AR-15 magazines: All gov't specs new 30rd mags \$6.00 20rd 75% to new \$5.00 20rd no finish fully functional \$3.00 MREs - 12 meals, late dates \$30. Light sticks, various colors \$1. each. 50 for .85¢ each 100 or more .75¢ each. Beretta 92 mags new \$15. 10 or more \$12 each. Shipping extra. Joe Stairrett RR#2 Jetmore, KS 67854 (316) 357-6119 evenings best (xdec)

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Wanted: Registered drop in auto sear or lower receiver for AR15. Steve (219) 868-5178 after 7pm.

Jap 96 dewat \$1250 match clip - post 86 M60 \$2100. Walther MPL BBL's new \$100. MP40 receiver transferable partially machined \$700. Browning 12ga. 2 shot auto, nice \$300. We need an original scope mount for M14. Freight please. Hahn Machine, 3101 Sussex, St. Charles, MO 63301. (314) 946-9567 (xdec)

Furr Arms Co. 1893 police model Gatling .22 short new & unfired \$4000 (904) 388-1200 9-5pm EST (xjan)

Minimi 249 .223 MG spare parts new barrels latest update parts for new configuration. Also buying 249 parts new or used. 249 tripod T&E adapter \$150 ea. Contact Patrick McKinney at CA (714) 956-7566 or KY (502) 538-3625 (xbjan)

Pennsylvania Residents personal collection for sale 1919A4 DLO new \$1900. ANM2 30-06 DLO new \$2200. M37 DLO new \$2200. I also have tripods and acc. for above guns. High standard M2 50 cal original amnesty gun with spare aircraft barrel and bolt, 1944 dated tripod plus armor plate shield \$5800. M2 50 cal DLO with spare aircraft barrel and bolt plus tripod \$4600. Both above guns with 1,000 rounds ammo plus all accessories I have for \$9800. M60 RIA as new with tripod plus 1,000 rounds US GI ammo on links every 5th rd tracer \$5500. M11-9 \$500. 1928 Savage commercial \$3900. 1928 Auto Ordnance Thompson \$1900. 1928 Colt Navy 95% in repro hard case with original NY Ldrum plus 3 mags - blank, correct and non correct \$6200. BAR 1918 Group Ind. with complete parts kit minus rec. 30 mags 3 new barrels new in wrap & bipod, Web gear, tools and acc. \$3000. Call Andy at (412) 532-0294 leave message (xfeb)

HK 33K, brand new S&H conversion with 2 original 40 round mags, \$2395. FNC Para with 3 shot, new S&H conversion of early short barrel Howco import, \$1795. M-10 powder springs 9mm NIB, \$750. M-1 Thompson, LNIB, \$1495. Will handle transfers for Georgia residents. References available. Call Tom (404) 460-6664. (xapr)

For Sale: Back issues MGN, Vol. 4, #1 to present (41 issues) for \$100; Machine Gun Dealers Bible for \$45. (702) 454-0105.

AKMS 7.62x39 bottom folding stock "CLAYCO" imported semi-auto rifle. Un-fired and in original box with serial numbered bayonet, 3 magazines, paperwork and accessories \$700. SIG-SG/550 (Sigw 90) bayonet and sheath with integral wire cutter and web gear \$80. SIG-AMT original flash hider from SIG Arms import \$50. SIG-AMT 20 round new condition mag \$75. UPS included, Mark (716) 627-3664 (x)

IMI Uzi with bayonet, 6 mags, carrying case \$1450 M60 RIA very good condition runs good extra barrel, sears, op rods, 2000 linkers, etc. with tool kit and manual \$5500 Call Pat at (602) 556-9638 even-ings after 5 pm MST.

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Are you moving? Let us know now so we can make sure you keep getting your copies of MGN. Please notify our office as soon as possible with the changes. You may call us at (501) 525-7514 or write us at Machine Gun News, PO Box 759, Hot Springs, AR 71902.

Complete SP89 to MP5K drop-in parts kit, includes trigger assy with registered auto sear, SEF plastic lower, MP5K bolt carrier, German K-Grip, HK stamped PDW folding stock, diopter rear sight; avoid conversion hassles, \$1895 obo. Also: Complete drop-in 01A grip frame with registered sear trigger group; \$1095. 33 bolt carrier; \$210 HK91/93 mags; \$25 each. 93 40 round HK original mags; \$50. HK bipod; \$120. PSG1 trigger assy; \$225. S&H adapter for A2 buttstock to SP89/MP5K; \$75. 91 raised cheekpiece buttstock; \$125. All parts new. All NFA rules apply. (703) 590-0697; even-ings/weekends.(x)

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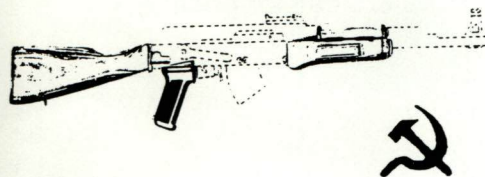
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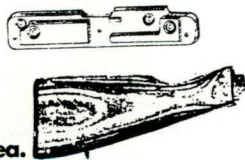


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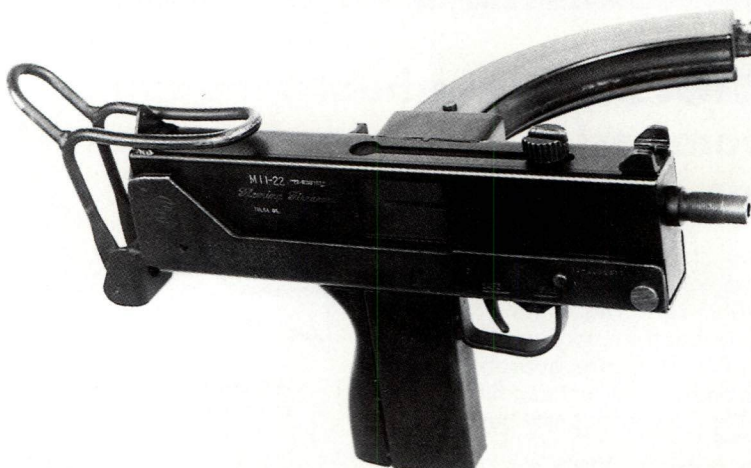
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