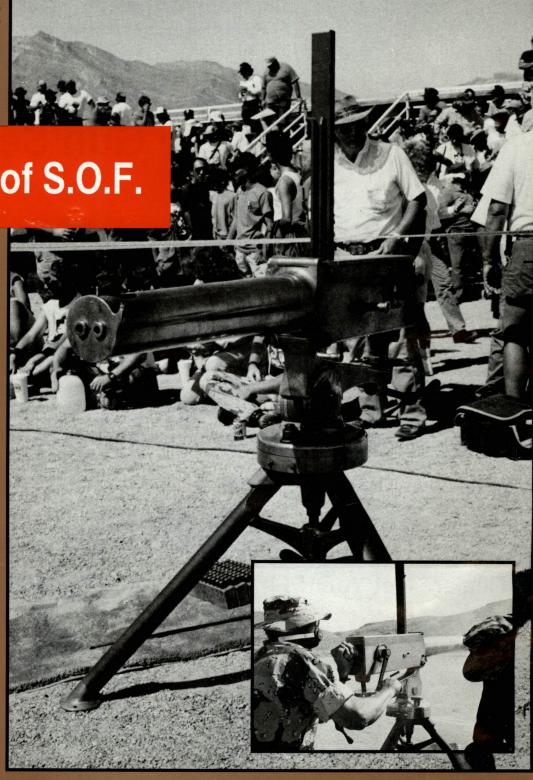
Machine Gun News

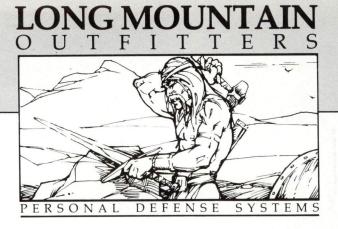
G2 Compact Rifle System

The Guns of S.O.F.

A Reliable Handload for the H&K MP-5

Ciener Suppressed Ruger Mark II





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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

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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.

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MAGAZINE FOR FULL-AUTO ENTHUSIASTS

Volume 5 Number 8

January 1992



Page 22

Features

d	realtifes			
	G2 Compact Rifle System	THE PARTY OF THE P	14	9 (9 -
	By Al Paulson			
	Freedom Fighters, Machine Guns, Oriental Rugs		18	
	By Rick Cartledge			
	The Guns of S.O.F.		22	
	By Ken Carter			
	Jackie's First Suppressor		28	
	By Jack Lorenz			
	A Reliable Handload for the H&K MP-5		32	
	By Steve Parker			

Departments

Raffica	6	
What's New	10	
Tinkering With Thompsons	12	
The Forms	36	
Archive Photo Of the Month	38	
Classifieds	40	

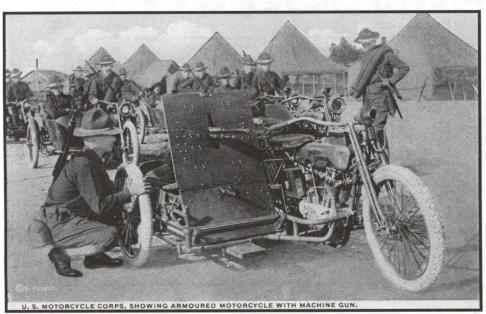
On the Cover: A twin barreled 45-70 Gardner Gun, circa 1879.

Inset: Dolf Goldsmith cranks a burst from the Gardner gun, the oldest, and perhaps rarist, gun at the Soldier of Fortune Magazine's Historical Demo. Photos by Ken Carter.

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Antique "penny post card" from the post W.W.I era features U.S. Army Motorcycle Corpsmen armed with '03 Springfields and Model 1917 Marlin machine gun. Note that Marlin's "potato digger" gas lever has been replaced by a straight-line gas piston, a modification originally developed for use in aircraft and tanks. Several thousand of these guns remained unused at war's end. Each motorcycle and sidecar was capable of transporting three men, and the short lived Corps was intended as a replacement for the by-then obsolete horse cavalry.



Wedgewood eaponry



Ken Keilholz 6069 Christopher Lane Cincinnati, OH 45233 1-513-941-6444 Federally licensed Class III Dealer

VICKERS .303 with tripod. The last of the transferable Vickers will soon be gone	\$3,500.
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I have spare parts available for the following:

German 08 Maxim, MG 15, 303 & 30:06 Lewis, Stoner 63, FN FAL T48.

Mail

Hill Country Editorial Rebuff Ken,

I was surprised to read your "opinion" piece in Machine Gun News.

Your drafting and publishing this self-indulgent and sanctimonious blurt leaves your wisdom and motives in serious doubt.

Perhaps you are simply schizophrenic or perhaps, you have ulterior motives—such as vilifying this shoot so you can produce your own.

I do not know and as to your motives, I don't care.

You, Mr. Carter, delivered by far the worst media on the subject. I would think that someone as experienced as you seem to be would know that such breast beating and mea culpa in the public eye are out of line.

You feel that we took precipitous action by having the night shoot—well, you had plenty of time to reflect on the consequences of your article before you published it.

Bill Jonke

Ken's Reply

Bill.

As producer of the Texas Hill Count Machine Gun Shoot, I can see that you make have felt that the criticism in my article was directed at you personally. That was not the case.

However, after conduct at the shoot resulted in State legislation affecting shooting ranges all across Texas, adverse publicity for machine gun owners, and closure of the only full-auto facility in the area, I felt a responsibility to point out to MGN readers some examples of how NOT to conduct an event of this type.

The calendar is getting crowded with these gatherings, and organizers need to keep in mind that there's more to it than a machine gun and a piece of land. A shoot must consist of three elements: responsibility, fun, and (perhaps) profit. Arrange the latter two in whicherever order you choose, but responsibility HAS to come first! It was the "opinion" of myself and others, that this was not always the case at the Hill Country Shoot.

Personally, I hope you are able to find a new suitable location, and conduct a safe event, and continue to make money.

And no, I don't wish to produce my own shoot. I just want to be allowed to continuowning and shooting the guns I have.

Ken Carter



These kits are a bit different in that some repairs must be done to the receiver components. The top cover, top & bottom plate, & trunnion have a small 1/8" wide cut in them on the left side that needs repair. The cuts are not deep. We will be happy to send you a Polaroid of this prior to shipment if you wish. Polaroids are free with an order or \$2.00 for a "Look See". Again parts for the gun including the rivets for the receiver plates are included. You get the parts except the receiver sideplates. The standard cocking handle is included, all sights are included & all parts are in serviceable condition & bore condition is very good or better. Accessories & tools included free are as follows:

as lolows:

1 - Cleaning Rods, 2 - Head Space & Timing Gage
Assembly, 3 - Firing Pin Spring Assembly Tool,
5 - Ratchet Chamber Brush, 6 - Spare Parts Pouch,
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Whole Kit as above. \$1595.00
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If you wish the ANM2 Aircraft Configuration, we can supply this with a G.I. original barrel @

AN/M2 Kit with non-demil (un-cut) receiver parts (one sideplate missing). \$1892.50
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\$1297.00
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Following accessories are NOT included in the pairs kits.

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Bolt Latch Release w/Spring. \$ 20.00
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Barrel Carrier. \$ 30.00
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Flash Hider Assembly. \$ 37.50
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.50 Cal. M-2 Receiver parts sets from non-torched U.S. made guns \$645. ea.

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Receiver parts
sets made from
non-torched
U.S. mnfg. guns
\$295. ea.

Kits are generated from disassembled guns. No right side plates. Rivet sets are included!



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BREN GUN TRIPOD W/AA EXT.....\$245. USED
ALPHA M.G. TRIPOD.......\$200. USED
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M-48 DASH MOUNT W/ CRADLE \$450



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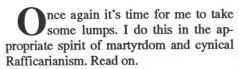


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Raffica

by Dan Shea



Q Dan, I am very impressed with your magazine and never miss "Raffica". I'm a permanent subscriber.... however, after months of stewing I just had to write and ask about the story on the "Larand" suppressor. A little short on material that month? and a cover to boot. Did your editor loose a bet to Al? As a gunsmith for a class II I've had the opportunity to examine several Larands and found them to be heavy and somewhat crude of manufacture. That "bolt action" FN with that huge tube looked like it needed wheels. With all the really fine suppressors available maybe Al could be fascinated with something with technology post-Maxim. I probably wouldn't have written even now except for one thing. Did Al really pee in his supressor?

As long as I'm bitching anyway, I never was happy with your answer to the guy who called you a jerk because you said all AR-15, M-16 receivers were cast. Your answer was flip. Of course all metal starts out molten and is the cast into pigs that are rolled, cast machined or forged. By your definition Randall and Bagwell knives are case. I still like your magazine, but see, you may actually be a jerk.

Just Kidding,

Gary S.

P.S. Tell Al a "can" is what you get your soup in.

A No, The editor did not have some past indiscretion unearthed by Al, making her vulnerable to blackmail. Just because you don't like Larand suppressors, doesn't mean they don't exist. Since they are relatively common, it would seem appropriate for MGN to carry an article on them. And we are all proud of Al for coming out of the closet with his affectation for unusual environments in his suppressors - it took great courage to do that particular experiment. He runs the risk of being characterized or stigmatized for his search for true knowledge. Imagine poor Al, tuxedo'd up, champagne in hand, little finger out, at his success party on the eve of his first novel being published. In bursts Donna Rice (or a clone) and she blurts out in front of his



adoring fans "Did you REALLY take a whiz in a silencer in a national magazine?" We really must lighten up about this, as the pressure is beginning to tell on Al. Besides, who will have the courage to experiment if we keep teasing anyone who deviates from the norm?

Gary, I never said I wasn't a jerk. I just object to Jonathan Ciener calling me one.

Q Just so you and your readers can get a feel for what the "good old days" were all about I've enclosed copies of ads from Guns Magazine. Of course these prices are from 1958 when dewats didn't need to be registered and there was no Gun Control Act to deal with. These machineguns were available in working order for the same money if you paid the tax. How 'bout those Stens for \$12.95 or the Thompsons at \$97.50? A year or two later prices were lower yet!

The restrictions of 1968 and the ban of 1986 are things we full-auto collectors are painfully aware of. Just thought it might be interesting to demonstrate how silly laws can also effect our wallets.

Wouldn't it be nice if machineguns could be sold the way they were then. Note that one ad says: "No license is required to own or purchase..." Apparently the government trusted citizens back then. Did we change or did they?

I shouldn't complain too much, I've still got my \$49.95 MP-44 (since made operable on a Form 1). Can't help but wonder though—where are they now?

Steve W.

A Most of these guns are still out there being traded for \$2-4000. One of the few investments that has paid off. I really wish we could get back to the freedom (and pricing) that is illustrated in these ads. The Gun Control Act of 1968 and McLure-Volkmer in 1986 really stuck it to us. And Steve, I'll give you \$149.85 for that MP-44, you'd be making 200 percent on your investment!

Q In regards to the question on M-16 finishes in your last "Raffica" column, I have been using a Molybdenum Disulfide dry-film lubricant in an epoxy based carrier made by Sandstrom Products of Port Byron, Illinois. It is supplied in grey and black colors and in an air-dry as well as

baked-on version and an in aerosol spray and dip. The air-dry version is sold as 26A and the bake on version is LC-300. The baked-on is more durable but the air dry is very convenient for touch-ups. I also don't want to heat the aluminum components up to the required 300 degree F cure temperature. In addition to the coloring effect, the finish provides excellent lubrication and corrosion protection. I found that the air-dry 26A product is also an excellent re-finish for the fiberglass shoulder stock.

I believe the Brownells may be planning to stock this product but I have received excellent service directly from Sandstrom.

For those interested contact:

Brownells
Rt 2, Box 1
Montezuma, IA 50171
(515) 623-5401
and:
Sandstrom Products
218 South High St.
Port Byron, Illinois 61275
(309) 523-2121

Keep up the good work, Gulliver

P.S. On my recommendation, my local ATF inspector ordered one of your "Bibles" for their office and she showed up with it at the last inspection. I think they were all duly impressed with your book and the personalized gold name plate! (Don't publish this or you may be accused of another "Blatant Plug"). She also asked me if I would be willing to conduct a little informational seminar for their internal departmental meetings. Seems that they don't get much exposure to the hardware end of NFA and would like to be able to examine representative guns. Seems to be a good opportunity for some positive PR.

A I am not worried about being accused of throwing a blatant plug for the Machine Gun Dealer's Bible in this column. I hear it so much that I appreciate you doing it for me! Thanks for the info on the Sandstrom finishes. Those who try these should be aware that these are excellent products, I for use by professionals. What I mean is, be prepared to experiment a little when you are trying to approximate a Colt type finish.

I think the more that we do to promote good relations with BATF, the better off we all are going to be. If they're familiar with us as legitimate gun dealers, it may lessen some of the adversarial attitudes some gents have.

Q I continue to enjoy your humor... exwife's face on milk carton, "I love it when you talk they way, German - bottle opener (sorry)". Great stuff! A bit of lightness in a serious world.

With regard to slowing cyclic rate (I happen to like slow subs), your last column opened up channels for a lot creative thinking. The people who designed the Sten had it right. Light spring, and a very long, long throw. With hotter ammo on a hot day (increased pressure) the bolt just goes 2" or 4" further back. There is so much room that the bolt never slams into it's stops. This and other factors continue to make the Sten one of the very best of the suppressed. At an initial cost of less than \$6, and over 50 years old, the Sten is an ugly, but effective piece.

With regard to drilling holes in the bolt and adding lead, you may have something there. But there are heavier metals. Steel weighs roughly 500 lbs. /cu'. Lead weighs 710 lbs., a modest gain. Gold, on the other hand, weighs about 1,300 lbs - too bad it's expensive. But it's for a good cause.

Depleted uranium is quite dense, cheap, and for some people it is still available. Baron Von Bic used it in his sailboat's keel a few years back. Of course we Americans used it in our AP tank rounds because of its density. Yes, it is radioactive, but not as bad as the stuff they chemically leach out to use in warheads and powerplants.

Cobalt is another dense metal. Perhaps the one with the most promise. A solid cobalt bolt in a MAC will slow the cyclic rate.

Another thought, some sort of shock absorbing material (powdered lead, powdered cobalt, mercury?) in a sealed chamber of the bolt (like the dead blow plastic mallets), heavy shot in a viscous oil, may rob enough energy to slow the cyclic rate to a more reasonable level. Enough!

Cordially, Mark W.

A I'd love to see a gold Sten bolt. That's kind of like putting a four on the floor in a Hyundai. MGN may start the Chrome and Gold Sten Gun awards for things that ople actually make that are artistic in their absurdity. Perhaps your ideas will inspire the Rafficarians out there to new heights of creativity, Imagine a Mac-10 that





Ads from 1958 Guns Magazine.



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cycles at 400! Let us know what you come up with out there guys!

Q I'm a new subscriber and presently own a Ruger AC 556 rifle.

I also own a HK 91 semi rifle. My question is if I want to make the HK full auto legally what is my best way to go, or is there a way. In MGN magazine Nov. 91, a subscriber questioned the unregistered machine gun lower trigger assy. Is it possible to buy a registered lower assy., bolt carrier and make the rifle full auto or is it not quite that simple.

I also purchased the "Full Auto" paperwork on conversions. How does the NFA look at a legal conversion, or is there such a animal.

I don't want to jeopardize my position with the NFA by purchasing the "wrong stuff" and if need be I will trade the semi in on the real thing. Please let me know what I should do.

Incidentally, I was please and excited by my first issue of MGN. I was very informative and fun to read. I look forward to many more issues.

Mark N.

A Mark, unfortunately the Congress of the

United States decided in 1986 that it would make it illegal to manufacture (convert) a machine gun for private ownership. The only way you can legally convert your HK semi auto to full auto is to install a registered, transferable HK auto sear that was manufactured before May 19, 19 These are available on the market. You will need a weld-up on the bolt-carrier to trip the sear release lever on full auto, and the sear release lever itself. The trigger pack needs the hammer stop milled out, and some of the newer H&K guns do not use the machine gun trigger, so the trigger will have to be welded and milled or replaced with an original. Your pistol grip trigger housing will need to be restamped to select fire, or a select fire lower can be milled out to fit in the semi auto receiver. You cannot legally alter the semi receiver to accept the push pin of an original machine gun 'swing-down" lower. Last but not least, the bushing for the sear must be shortened on each end, or replaced with an original. Enjoy!

> Questions to: Dan Shea c/o MGN PO Box 759 Hot Springs, AR 71902

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WHAT'S NEW

by Chris A. Choat

RAPID FIRE WEAPON SYSTEM

The firm of S.K. Enterprises has just reintroduced the Calico Two-Twenty-Two and M 1-II conversion kits for the Ruger 10/22 and .30 cal M1 carbine. The kits, first introduced about 10 years ago, allow a pair of either kind of rifle to be fitted into a tripod mounted device and then fired by hand crank much like a Gatling gun. The conversion fires the guns alternately and very high rates of fire can be achieved as the guns fire four times for every revolution of the hand crank. The guns can be swiveled 360° and also elevated to approximately 45°. The conversion kits are complete with sights, ventilated barrel shrouds, flash hiders, tripod and firing mechanisms. All you need to add is a pair of rifles. For more information on these unique systems contact S.K. Enterprises, Dept. MGN, P.O. Box 1047, Polson, MT 59860-1047. Their phone number is 303-692-3927.



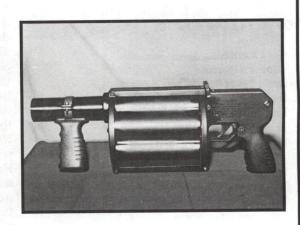
MP-5 K PERSONAL DEFENSE WEAPON

eckler & Koch has a new version of the MP-5 K now available. The new variation is called the PDW or Personal Defense Weapon. The PDW was designed as a compact weapon for vehicle or aircraft crewmen. The size and weight of the PDW, as well as its tactical flexibility, makes this weapon the ideal choice where a rifle or full-sized submachine gun is unmanageable and a handgun is a poor compromise. The new PDW can easily be carried under a coat, in a brief case or soft carry bag and will still provide the accuracy that the MP-5 is famous for. The PDW is basically an MP-5 K with the addition of a specially designed side-folding stock and a threaded barrel for using a suppressor. The new gun will b shipped with a "Navy" type trigger housing with the 3-round burs housing available as an option. Rate of fire of the gun is in the 900 r.p.m. range. For more information contact Heckler & Koch, Dept. MGN, 21480 Pacific Blvd., Sterling, VA 22170. Their number is 1-703-450-1900.

6-SHOT 37MM FLARE LAUNCHER FROM A.O.C. DISTRIBUTORS

MP5K-PDW is surpris

new high capacity flare launcher is now available from A.O.C. Distributors of Muncie, IN. The new launcher is manufactured by Penn Arms exclusively for A.O.C.. It is designed to fire all military style metal flares as well as the plastic flares marketed by A.O.C. in 37mm. The launcher has a new firing pin system that will fire both the .125 and .080 rim thickness cases. The launcher is manufactured for flares only and firing any 37mm gas cartridges will void the 5 year warranty. Another model launcher is available from A.O.C. that will handle the 37mm gas rounds. A.O.C. stocks all repair parts and accessories such as a folding and fixed stocks. The launcher is available in several special finishes which include satin, chrome and a special salt water, rust proof finish. The launcher is ideal for use at sea and is capable of launching 6 flares in less than 3 seconds. Also available from A.O.C. is their new 37mmair-burst powered chalk round in red, white, blue and orange. In the next month they will also have 37mm parachute flares and 37mm HV (high volume) colored smoke rounds. For more information and prices contact Wallace Chrich, A.O.C. Distributing, Dept. MGN, 2010 South Brotherton Street, Muncie, IN 47302. They can be reached by phone or fax at 1-317-289-0765.





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Tinkering with **Thompsons**

by Jim Klodzinski of Gunmachines 50 Round Drum Magazine For M1 and M1A1 TSMG!

ince I have been in business as Gunmachines, over the last 4 1/2 years, I have had, periodically, calls from many M1 and M1A1 TSMG owners about the viability of machining the trigger well of their military TSMG's to accept a 50 round drum magazine. When the military 1928A1 was replaced by first the M1 and then the M1A1, in order to facilitate machining to accommodate the war time production, the M1 and M1A1 were designed to only be used with a 30 round stick magazine. The M1 and the M1A1 can be remachined in the areas of the trigger well and the forward part of the trigger housing to accept a drum magazine.

If you examine the magazine well of an M1 or M1A1 you will notice that you will have to have metal removed form the area below the ejection port as well as to have horizontal grooves put in to take the horizontal lips on the front and rear of a drum magazine. Also, the front of the trigger housing needs to have a horizontal space machined to allow the magazine catch to work. These alterations can, of course, be made to an M1 and M1A1. However, most M1 and M1A1 owners don't wish to deviate from the standard military design. And, if alteration doesn't matter to a shooter, you need to have the alterations done by a competent machinist, otherwise you may put in the drum and experience feeding problems because the job wasn't done precisely. Also, unless you are present when the machining is done, you have BATF problems unless additional paper work is done.

Well, I am pleased to announce that, thanks to Dave Cammack of North Dakota, an M1 or M1A1 owner need not go to a lot of trouble to have his TSMG function with a drum magazine. Dave has developed a 50 round drum magazine that fits and functions, but more importantly, reliably feeds in an M1 or M1A1 without any alterations whatsoever to the M1 or M1A1. I received three of these drums at the Knob Creek shoot this last October and two of them were sold in a very short time. The third one I kept.

Dave uses brand new Valentine 50 round drum magazines and custom alters each drum by hand so that it reliably fits, functions and feeds in the M1 and M1A1. I have had occasion to test Valentine 50 round drum magazines in the past when they first came on the market. They are well made and worth the money. I personally use them in my 1928 TSMG and I have recommended them without hesitation to my customers. Dave has altered the feeding aperture of the drum with two lips properly positioned to provide proper feeding of ammunition. The first three I received only had one lip which could contribute to feeding problems. This was the case with the prototype that I tested at Knob Creek. Dave then started to use two lips on the drum in subsequent production. I have received the two lip model and tested it and it fits and functions in an M1 or M1A1 perfectly and feeding occurs without a hitch. I will b doing more in depth report concerning this test in a future article.

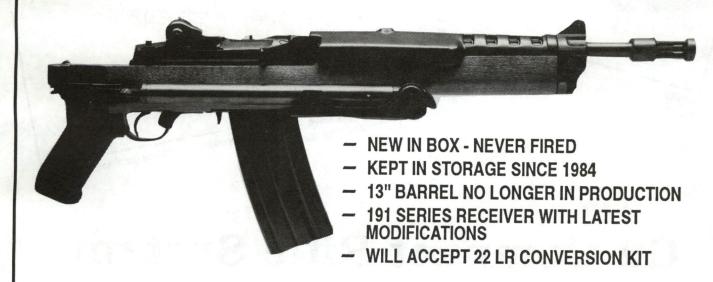
Also, one of the prototype one lip versions did not properly fit in a recently made Auto-Ordnance M1 (really an M1A1) TSMG. The two lipped version has cured this situation so that you can be assured that if you purchase one of these drums, it will fit function and feed in wartime military as well as recently manufactured M1 and M1A1 TSMGs.

I was very impressed with Dave's concept, workmanship and quality of his product that I have agreed to be the sole distributor for his modified 50 round drum magazines. As of this issue, Dave's drums for M1 and M1A1 TSMG's are available from Gunmachines at the price of \$289.95. Gunmachines stands behind this drum, as well as it does for all of its products and parts. So, if you want more magazine capacity for your M1 or M1A1 this is the way to go and you don't have to do a thing to your TSMG.

Next Month: The Gunmachines Custom Combat/Competition TSMG

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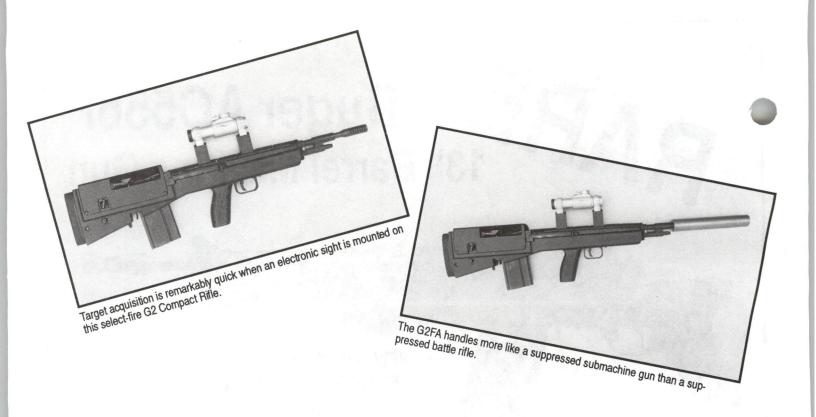
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G2 Compact Rifle System

by Al Paulson

The new G2 Compact Rifle is really a redesigned bullpup system based on the outstanding M14/M1A service rifle. Originally conceived in select-fire mode as a compact squad automatic weapon (it's much more controllable on full auto than conventional M14 variants), the Navy has already adopted the bullpup as a "sniper support weapon" to be carried by each sniper's observer. Overall length of the rifle with 22-inch barrel is only 33.5 inches, making it as handy as a submachine gun.

The G2A match variant is remarkably well suited to the role of sniper/countersniper rifle, particularly in the urban environment. The G2FA suppressed variant uses new technology that packs surprising performance in a very small package.

This weapon system was developed as a joint project between Lynn McWilliams and legendary rifle designer Gale McMillan. The G2, G2A and G2FA rifles are available as complete semiautomatic rifles, and as affordable retrofit kits for full-auto or semiautomatic rifles.

This article will examine these systems, evaluate their performance, and discuss a few eccentricities of certain options. But only the principle options. For AWC Systems Technology can provide more combinations of barrels, sight mounts, and other options than can be discussed in a single article. AWC should be able to tailor a system to meet any realistic tactical or sporting requirement for a self-loading rifle

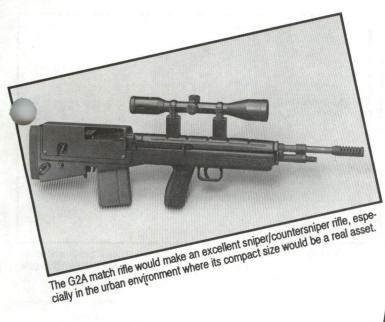
The key to the G2 system is the fiberglass stock designed and produced by Gale Mc-Millan. His earlier stocks are used on many of the best military and police sniper rifles produced by a variety of manufacturers both in the States and the UK. His experience designing and producing thousands of advanced sniper rifles for the Navy and Marine Corps developed a state of the art against which all other sniper rifles are compared. (We'll evaluate his ultimate surgical creation, the M89 silenced sniper rifle, in a forthcoming issue of Machine Gun News.) The G2 stock is the culmination of McMillan's artistic and engineering prowess.

The bullpup stock is a solid, high-density fiberglass laminate which incorporates a textured forearm and pistol grip, Pachmayr Decelerator rubber recoil pad, and an aluminum cheekpiece. It requires the use of an original M14 handguard to cover the top of the barrel. Since fiberglass is more dense (i.e., heavier) than wood, McMillan lightened the stock somewhat by incorporating glass spheres in an epoxy matrix into the forearm. After the stock is formed under pressure (at least 100 pounds per square inch), the stock is machined using computerized equipment. The result is a robust, warp-free, chemically inert stock that is impervious to cleaning solvents and handles superbly. McMillan's G2 stock carries an unconditional lifetime warrantee.

Installation of the barrelled action requires removing the original sights and glass bedding the barrelled action. But the clip charger guide MUST BE RETAINED (more about that later). A shielded, flexible cable connects the bullpup's trigger with the original trigger mechanism.

The cable system provides precisely the same trigger pull as the unmodified M14/M1A. This gives a classic two-stage military trigger pull. The first stage take-up is fully adjustable. Some people have actually adjusted this take-up to zero to mimithe one-stage pull of a bolt-action rifle. This is not advisable, since there is a marked tendency for most shooters to inad-

Machine Gun News - January 1992





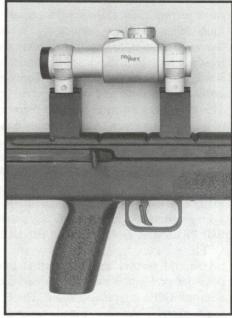
vertently discharge the gun a second time during recoil recovery. Retaining the twostage pull is safer, more positive, and in no way diminishes the rifle's practical accuracy or the speed of a follow-up shot.

The bullpup's stock only adds a half ound to the system weight compared to a wood-stocked M14. The standard G2 rifle weighs 10 pounds without optical sight or suppressor. The bullpup configuration places the center of balance much closer to the shoulder, so the rifle seems to weigh less than it actually does. The stock's standard color is black, but camouflage and other finishes are available on special order. The G2 stock also features a quick-disconnect black nylon sling. The sling can be attached in two different ways for either shouldering the rifle in traditional fashion, or carrying the rifle at hip level in an assault or ready position.

My only criticism of the G2 stock is that the aluminum cheekpiece is not well suited to operations in cold environments. The stock will not fail when cold. But the shooter will. Aluminum makes an effective heat sink which quickly induces pain at below-freezing temperatures. Imagine the poor police sharpshooter who might have to keep the crosshairs on his target for an hour or more while awaiting the "GO!" order by radio. Such discomfort increases pidly as temperatures plummet past freezing, even with a beard. And—as Alas-

pidly as temperatures plummet past freezing, even with a beard. And—as Alaskans and residents of the northern tier states know—winter temperatures there can Machine Gun News - January 1992 reach levels where bare skin instantly freezes to exposed metal.

Wearing a wool balaclava will help when using the G2 rifle at subfreezing temperatures. At even colder temperatures, I'd also try glueing a sheet of closed-cell Neoprene foam (covered with nylon mesh on both sides, which is used for making wetsuits) to the aluminum plate. I'm not sure what adhesive would be appropriate. But I'd probably try Dow clear silicone bathtub

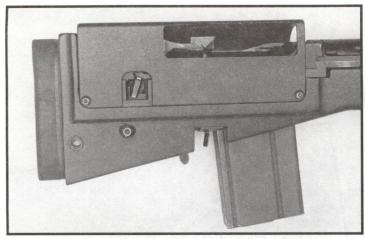


The G2's trigger is connected to the original trigger mechanism via a shielded, flexible cable. The cable system provides precisely the same trigger pull as the unmodified M14/M1A.

caulk first. The added thickness of the balaclava and foam will alter the shooter's eye alignment behind the scope, so a modified cheek weld or higher scope rings may be required for winter operations.

Accuracy of the G2 rifle will be the same as the M14 or M1A from which it is built. A pristine, top-of-the-line semiautomatic match rifle from Springfield Armory or Fulton Armory will maintain its impressive accuracy, but a tired select-fire M14 will not magically become a sniper rifle. The one exception is that mounting the G2 suppressor with its unusual barrel-tensioning system can sometimes improve the accuracy of a pristine but inaccurate barrel. Installing the G2 suppressor on a new barrel producing 3-inch groups at 100 yards, for example, might tighten groups to 1.5 inches. But this procedure will not improve a match barrel producing 3/4 MOA groups so it delivers 3/8 MOA groups. It's a major achievement that such a small, efficient suppressor-which must place a lot of stresses on internal gas flow-does not adversely affect match-grade accuracy.

Accuracy is affected by the choice of barrels, trigger quality, scope bases, rings and the optical sights themselves. A suppressed G2FA rifle based on a plain old Springfield Armory M1A action with McMillan 19-inch stainless barrel (sorry, they're no longer available) consistently produced groups under 1 MOA at 200 yards, with most groups running 3/4 MOA using a 6x42 Swarovski Habicht (continues)



The McMillan G2 fiberglass stock features a Pachmayr Decelerator rubber recoil pad and an aluminum cheek piece. Note the selector just below and to the rear of the ejection port.



The G2FA's silver-colored gas regulator screw is used to adjust gas flow depending on whether or not a suppressor is mounted on the weapon. The AWC muzzle brake is remarkably effective during full-auto fire.

scope. The rifle received no other special tuning except polishing the trigger components. No attempt was made to lighten the trigger pull or adjust out any of the takeup. That scope itself introduced a 1/4 MOA error because its reticle was so bold. The results are even more surprising since Lake City Match ammunition was used, which is only required to produce 1.5 MOA to meet Lake City standards. In fact, both the Army and Marine Corps standards for National Match ammunition and rifles only require 1.5 MOA performance. The 1.5 power Swarovski Cobra scope with circular reticle, on the other hand, is incapable of remotely similar performance. But it provides much faster target acquisition out to 200 yards in my hands.

Reliability of the parent firearm will also remain unaffected by the G2 conversion, unless the clip charger guide is removed during installation, as some people have done when installing G2 retrofit kits themselves. This guide plays an important part in the ejection process, and must be retained. AWC will perform the complete installation, including glass bedding and mounting the scope bases, for the bargain price of \$200.

The only other thing that can adversely affect reliability concerns user error with the G2FA suppressed version, which incorporates a modified gas system. An normal M14 incorporates a gas regulator, which is opened for normal functioning and closed for launching grenades. Since the G2 suppressor increases back pressure significantly, AWC modified the gas regulator's closed position on the G2FA rifle so it meters precisely the right reduced amount of gas for reliable functioning with the suppressor mounted. This modification involves annealing the regulator spindle, machining a precisely engineered passage

for reduced gas flow, and hardening the part. This reduced volume of higher pressure gas still produces an additional 30-40 feet per second velocity compared to the same rifle with the gas regulator in the open position and the suppressor removed.

It should not be surprising, then, that failure to "turn off" (really, "turn down") the gas system can cause problems when the suppressor is mounted on the rifle. This can produce a spent case wedged firmly between the action and stock where it will remain, tenaciously locking up the action until removed by a pliers. Such violent bolt movement can also break the extractor and trash the firing pin, as well.

LET ME EMPHASIZE THAT THIS IS NOT A DESIGN FLAW. IT IS USER ERROR. Using a screwdriver or empty cartridge case, the gas regulator screw of the G2FA rifle must be open (the slot vertical or perpendicular to the bore) for reliable functioning without a suppressor. When the suppressor is mounted, however, the regulator must be in the closed position (the slot horizontal or parallel to the bore) to avoid malfunctions and possible damage. This only takes a quarter turn (90 degrees) of the regulator screw. I am perfectly content with this design. I tend to think of the G2FA modified gas system on a similar plane as the Stoner 63A machine gun. A superb design that simply requires the user to pay a bit more attention to detail than the average grunt. So remember G2FA users: SUPPRESSOR ON — GAS SPINDLE OFF!!

I should further emphasize that this potential problem is only a consideration with the G2FA suppressed rifle. The G2 standard and G2A match rifles do not incorporate this modification to the gas system, so there is no possibility of this user error with these variants.

The G2 suppressor itself is a wonder. Constructed entirely of 304 stainless steel, the can measures 1.5 by 10 inches and weighs about 28.5 ounces. It attaches to the modified, stepped barrel in a fashion reminiscent of the mounting system Doug Olsen and AWC developed for the Mc-Millan M89 suppressed sniper rifle. (It's also similar to a tensioning system developed independently a decade ago by Mark White of Kodiak, Alaska, for increasing the accuracy of light-weight bush rifles.) Since a fourth of the G2 suppressor extends back and tensions against a shoulder on the barrel, the suppressor of adds 7.5 inches to the overall length of the system. Thus the suppressed G2FA system is 41 inches long with a 22-inch barrel, and it's 37.5 inches long with an 18.5-inch barrel.

Thanks to the bullpup's unusual center of balance, the G2FA exhibited none of the awkward muzzle-heaviness common to suppressed military rifles. The G2FA handled briskly and positively. Target acquisition was a snap with the latest Aimpoint electronic sight, which was graciously provided by Ed Smalley (Smalley's Guns Unlimited, 170 George Junior Road, Grove City, PA 16127-1054). The Aimpoint or a Swarovski Habicht 1.5 power Cobra scope with circular reticle would be my choice for a general-purpose G2 setup. The Cobra provides a similar sight picture to a Steyr AUG and is available as either a conventional 1-inch scope or with a STANAG 2324 mount.

The select-fire G2FA suppressed rifle used to study sound signatures, which was made from a transferable Smith Enterpr M14, was provided by Larry Larson CTS, Inc. (P.O. Box 110499, Nashville, TN 37222). The light-weight scope mounts

were designed to mate to the standard weight barrel for the M14 battle rifle.

Other scope-mounting options include another variant for heavy barrels, a STANAG system, and a unique one-piece ount that is completely integral with the perating rod guide. Both the scope base and guide of this latter mount are machined from one solid piece of chrome-moly steel. It provides a 1-inch diameter contact at the barrel over a 1-inch overall length. So the one-piece mount actually has more surface contact with the barrel than the receiver does.

The G2 suppressor produced an unusually sweet sound for a centerfire rifle suppressor. I could hardly wait to set up my sound test equipment.

I measured sound signatures of the G2FA rifle with its proprietary AWC muzzle brake versus the same rifle with the AWC G2 suppressor 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 an 80 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 mperature was 50 degrees Fahrenheit, and NATO M80 ball ammunition was used for the sound tests.

The unsuppressed G2FA rifle produced a sound signature of 169 decibels, which was surprisingly high. Other 7.62x51 rifles I've tested have generally measured 167-168 dB. While the higher sound signature may have been caused by different ambient conditions, I believe the higher dB readings can be attributed to the AWC muzzle brake. The prototype brake was so successful at taming the muzzle climb of the G2 fired on full auto that it actually pushed the muzzle down. So production versions include porting on the bottom of the muzzle break to balance the vertical forces.

But the AWC muzzle brake still directs a lot more gas back toward the shooter's face than a standard M14 flash hider. There is never a free lunch. The cost of minimum shot dispersion and maximum hit probability on full auto is paid for in the currency of increased shooter discomfort from the redirected gas. Nevertheless, this was the first time I actually enjoyed shooting an M14-type rifle on full auto.

Creeived recoil was much less than an

M14 thanks to the muzzle brake, straight-

line stock, and Decelerator recoil pad. I

believe the muzzle brake increased the muzzle signature by a decibel or two, but I did not have the opportunity to test my hypothesis because of limited range time.

The suppressed G2FA produced a signature of 138 dB, for a net sound reduction of 31 dB. Another way of looking at these data is that the suppressed sound pressure level was only 1/1,250 as intense as the unsuppressed sound pressure level! That is outstanding performance any way you slice it. But that sound reduction is only part of the total performance equation.

The quality of the sound makes this suppressor a remarkable achievement. It actually sounds significantly quieter than the meter reading suggests. This suppressor is also a remarkable achievement because of its benign effect on accuracy. Not to mention its small size and weight, as well as its solid sound reduction as measured in decibels. I don't believe I can be accused of hyperbole if I describe AWC's G2 suppressor as a stunning achievement on every level.

There are, however, some things the G2 suppressor cannot do. It can't eliminate bullet flight noise, which is probably about 25 decibels less than the unsuppressed muzzle blast. It can't eliminate the ballistic crack (sonic boom) of a supersonic projectile, which sounds something like an unsuppressed .22 rifle. The suppressor is not designed to endure automatic fire. And it cannot make a good margarita. So how many 7.62mm rifle suppressors can do any of these things? AWC's G2 suppressor does everything I want.

Since I've spent a lot of time flying in the Alaskan Bush and a lot of time at sea, I particularly like the way AWC's G2 Compact Rifle handles in confined spaces like a cockpit or companionway. It would make an ideal semiautomatic general-purpose or scout rifle with an electronic sight or lowpower optics for civilian shooters. In fact, the G2 is used now by Navy scout/snipers as a sniper support weapon. The G2A and G2FA variants would make excellent sniper/countersniper rifles, matching the performance of the venerable M21 sniper rifles in a much handier package. I'm sufficiently impressed that I'm liquidating some prized automatic weapons to finance a match-grade semiautomatic G2FA. This system fills a need I've had for 21 years.

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ince mustering out of the 101st Airborne at the end of World War II, my father has been in the fine furniture business, he now owns and operates one of the largest furniture galleries in the Southeast and he runs it with the same skill that he ran his intelligence and recon team and his skill with design is as legendary as was his skill with the Thompson. A renowned Midwestern wholesaler of oriental rugs who had never shown his merchandise South of Washington D.C. had chosen his gallery to make their first foray into the South and dad worked very hard to prepare for the "1,000,000 Oriental Rug Sale". I knew that this was going to be unique opportunity to see museum quality in a relaxed atmosphere so I grabbed one of the infrequently vacant parking spaces and reconnoitered the store. Sure enough, there to the left of the Kittinger and Hickory Chair, taking up most of the right side of the Baker gallery was, quite literally, \$1,000,000 worth of Oriental rugs.

There exists in the Hermitage Museum in Leningrad a rug unearthed in a frozen

Freedom Fighters

Machine Guns

Oriental Rugs

By Rick Cartledge Photos by Steve Hyde



The gun rug, a piece of tribal history and art, shown with an AK-47 for scale. It was woven in Pakistan by Afghani refugees of the Mujahedin.

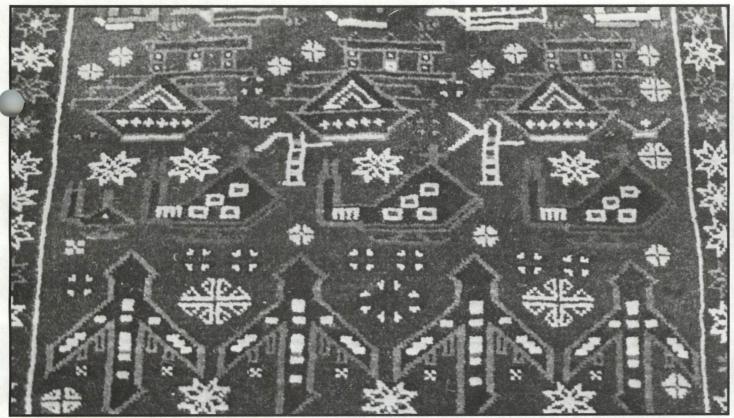
mound near Gorny-Altai close to the Outer Mongolian frontier that is of Persian design and Turkish knotting that dates from the fifth century B.C. I wanted to see more of and to know more about this ancient craft and asked the wholesaler's representative to guide me. The knowledgeable and able salesman cleared a place in front of us and began pulling the carefully rolled carpets and rolling them out one on top of the other explaining the construction and regional origin of each one. He showed a Tabriz rug

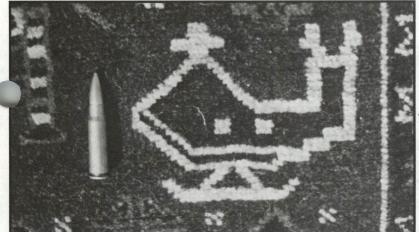




The MiG 24 "Foxbat" is surrounded by explosions from the American Stingers.

Below the spoike of the AK-47 is an AK-47 woven into the rug. A 7.62x39 round to the right gives a sense of the delicacy of the weaving.





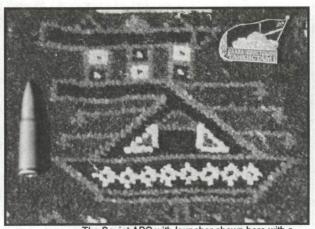
The dreaed MiL mi-24 "Hind" with its 32 57mm rockets and 12.7 Soviet 50 main gun. A 7.62 x 39 round shows the scale.

from the Azerbaijan province of Northwest Iran with its flowing tendrills and abrash. The he whipped out a heavy Bijar rug with its geometric patterns flanking its central medallion. There was a Freaghan "Pearl of Persia" and an Indian silk with six hundred knots per inch whose colors were like simmering water. He then reached across the pile and pulled tow small rugs out, one light blue and the other slightly smaller and navy. He explained that these were tribal rugs, made to celebrate a particular historical or religious event that held a place of honor or esteem with the tribe that made it. hen he said, "I'm going to show you what bought for myself." When he snapped his wrist what rolled out of his hand was

astonishing.

It was a gun rug. My artist's training and gunners eye caught the shapes even before he could explain them. The shapes conjured up images of the cave paintings at Altamira in Northern Spain Or Fonte-de-Guame in central France, but these shapes though primitive, were not ancient. When the salesman pointed to the rug and said that it was made in the refugee camps of Pakistan by Afghani refugees, I knew that I was looking at a woven document that celebrated the war and impending victory of the freedom fighters in Afghanistan. The salesman first showed me a line of MiG 24 Foxbats, then the Soviet APC's. He then turned the rug 90 degrees and ran his finger

Flying in formation above the AK-47 reciever are a row of MiG-24 "Foxbats". Above the explosions, four Hinds with two Stingers between them fly below a line of Soviet APC's.



The Soviet APC with launcher shown here with a 7l62x39 round and a Soviet tankers badge from Steve Hyde's personal collection.

along a line of AK-47's that framed part of the border. He contrasted the style of the tank on the larger rug with the APC on the smaller navy rug. After pointing to the rounded shapes that symbolized explosions, he spun the rug again and showed me a line of MiL Mi-24 "Hind" attack helicopters. The Hinds with their 32 57mm rockets and 12.7mm Soviet 50 main guns were flying across the pattern of the little blue rug. Those who gathered ad Knob Creek will have no trouble remembering the brutally efficient Soviet 50 of Mr. Robert Landies. (For those who regrettably missed the spectacular night shoot this Oc-

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tober, I was shooting (continues)
Tracie Hill's Thompson 10 feet away from
this gun and could feel muzzle blast going
by my face.)

Then he showed me the most interesting part of all. Running through the middle part tern of the rug were American Sting missiles. It was these 30 pound pieces of hardware that leveled the playing field and freed the Mujahedin from the aerial tyranny of the dreaded Hinds. Armed with their passive homing and ultraviolet infrared, the freedom fighters blew the Hinds out of the sky. The rug honors the contribution of fellow owner and Texas Congressman Charlie Wilson who cleared the path so that the freedom fighters could be supplied with the reusable tracking and launching units, (MGN December 1990). Woven into this little blue rung is a token of thanks for American aid to some fiercely independent tribesman who were battling a heavily armed invader half a world away.

The valuation letter that accompanied the rug sheds even more light on the story. The design or pattern is gun rug. The country of origin is Pakistan. The rug is 6 feet in length with a width of 2 1/2. The background color is navy with a border color of brown. The construction is 160 Persian knots per square inch, woven by Afghan weavers. The fiber is woolen pile. It is my own observation that this rug must have been mad by a master weaver under the most advers conditions and yet the colors are consistent throughout the rug and the workmanship seems to have been of the finest sort. These brave people must have pooled their limited resources to make this rug and the sale of it probably kept them going for quite a while. I consider it a privilege to own it.

Finally, it should be stated I have no pecuniary interest in my father's business. I had thought that the existence of a gun rug would be of interest to the knowledgeable and faithful readers of MGN, but in talking with the editor it seems that I have not only generated interest in the article but in the rugs as well. I checked with my father who said that, though no two rugs of this type are alike, there were others available and he could pull them in if requested. Before you call you should be warned that these high quality rugs can be as addictive as the trigger pull on a Colt Thompson. I had stopped in for some conversation and education and left with a roll of art and history under my arm.

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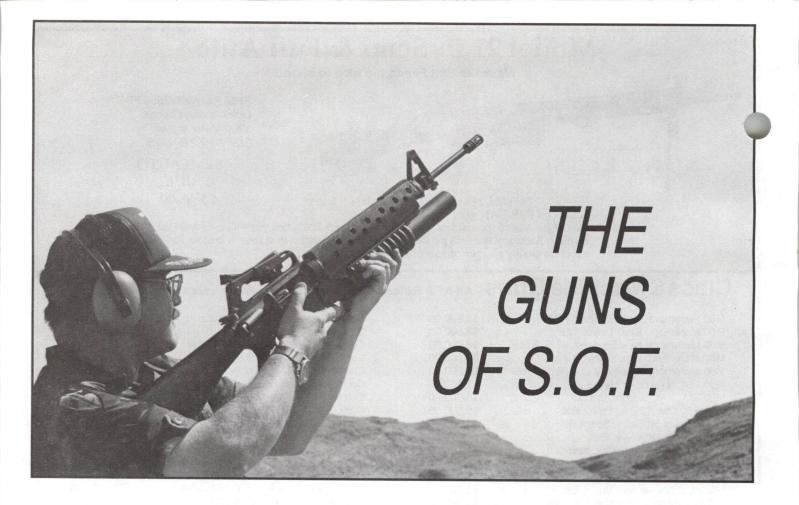
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As proof of the old saying that "the more things change, the more they stay the same," the collection of ordnance in the Nevada desert outside Las Vegas ran the gamut from Gatling gun...to Gatling gun.

Once again, I'd had the good fortune to be asked to participate in the Soldier of Fortune Magazine Firepower Demo, and naturally, I'd jumped at it. If nothing else, it meant I'd have "the best seat in the desert" for what is always one of the most popular events of their Annual Convention. And besides, this year, I was to be inducted into the notorious Arizona Emma Gees!

This, by the way, was apparently the last year that the convention would be held at the Sahara, which has been its home for the past 7 years. For 1992, Col. Brown and his cohorts are moving up the strip to the Sands Hotel, which has more spacious facilities to accommodate the ever-expanding list of displayers attending the Exposition. (This year, for the first time, MGN was among those staffing a booth at the Expo, and it was great to get a chance to visit face-on

Above: Armorer John Miller bloops a smoke round downrange with a Ciener-manufactured M203. Right: Paul Reed of Navy Arms smokes an explosives-rigged "napalm" bottle with his Parker-Hale M-85!

MGN's Ken Carter joins the firing line at the 12th Annual Soldier of Fortune Convention in Las Vegas.





Right: Cliff David of Calico wrings out the company's new 9mmSMG, complete with suppressor, laser sight, and 50 rd. magazine.

Below right: Val Cooper of E&L Mfg. pulverizes cement blocks while demonstrating new 275 round drum for American 180.



with machine gun fans from all over the country - the world, really - and to sign up new subscribers. Thanks to those of you who stopped by with encouraging comments and suggestions, and also to the reader from Japan who asked one of our crew to "name-ograph" his magazine. Ah, so!)

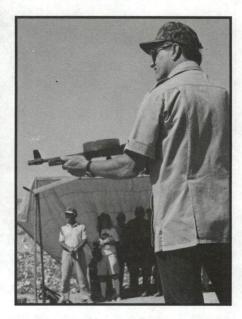
I've mentioned this before, so I won't bore you by listing all the neat stuff that's stacked on the tables, but I find about as much to like here as at any other show of this type I've ever attended. For one thing, the participants include some of the best known names in the full-auto world, and there are always lots of rock-and-roll toys on display.

And, speaking of names, the convention also affords a chance to rub elbows with a bevy of famous and/or extremely interesting folks. On the military side, you might find yourself standing next to Gen. John inglaub, or Air Force Captains Eric "Fish" Salomonson and John "Karl" Marks, a couple of Warthog pilots who, between them, knocked out 33 of Saddam's tanks during Operation Desert Storm. Or how about Soviet fighter pilot Captain Alexander Zuyev who, fed up with Moscow's murderous ways, drugged his fellow pilots, overpowered a runway guard, and although seriously wounded, flew to freedom in a stolen MiG-29?

There is the opportunity to meet and attend briefings by movers, shakers, media heros and journalists (in the case of SOF, the line between them sometimes (continues)



Member of Army Pistol Team unearths a Glock to demonstrate how well it will perform after a "bath" in Nevada sand.





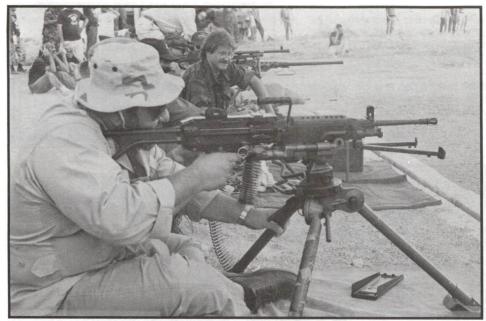
The author homes on a dynamite-enhanced gasoline jug, and awaits the order to commence firing.



John Miller fires Ceiner "SAW" - a belt-fed CAR- 15.



Innovative Farmersburg "soft mount" for the Browning .50HB takes the bounce out of Ma Deuce.



"Hollywood's resident anarchist", John Milius, takes aim with M249.

gets a little fuzzy) whose exploits have informed and entertained you. To engage in a little shameless name-dropping, I got to share drinks/conversation/gunsmoke with the likes of well-known gun scribe Wiley Clapp, screenwriter-director John Milius (Apocalypse Now, Dirty Harry, Red Dawn, Flight of the Intruder, etc.), the legendary Col. Rex Applegate, silencer-scientist Phil "Doc" Dater, and of course, the inimitable Pete Kokalis. It was also a chance to renew acquaintances with former Smith & Wesson PR wizard, and now Editor of Handgunning Magazine, Sherry Collins; SOF Circulation Director Lefty Wilson, who used to hold the same position at Playboy (would you give up a job at The Mansion to work with a bunch of hairylegged ex-grunts?!); and paintball guru Jessica "They Come In Full-Auto, You Know" Sparks.

MANUFACTURERS DEMO

The chief reason for my sojourn, though, was to serve as Master of Ceremonies for the portion of the Firepower Demo in which manufacturers get to show off their new "guns and gadgets" to the crowd that always packs the reviewing stands at the Desert Sportsman's Range north of town.

First up was Val Cooper of E&L Manufacturing (39042 N. School House Rd., Cave Creek, AZ 85331). This company, best known for its Rigid Brass Catchers, recently bought up all the parts and accessories for the American 180 submachine gun, and Val demonstrated some new products for these .22 caliber buzzguns that should really rev the motors of all who own them. Foremost is a trio of new magazines made of tough Lexan plastic



The line is hot! Kent Lamont warms the barrels on his twin MAG 58's.

that hold 165, 220 and 275(!) rounds, respectively, and are transparent so that you can check their contents at a glance. Mounting the 275 round drum, Cooper proceeded to unleash a cloud of lead pellets that, in seconds, reduced a pair of cinder blocks to pea gravel! As interesting as the drums, if not more so, was a deceptively simple loading tool that will fill one of the five-tiered magazines in five minutes flat; and yes, it will work on the old slow-toload 177 round steel mags, too. When I think of all the nights I spent in front of the TV, loading up for the next day's shoot... Ed. MGN will feature the new drums in an article on the American 180 in an upcoming issue.

Mike Brown and James Palazzo of Group Industries (P.O. Box 9194, Louisville, KY 40209) put their American-made clone of the Israeli Uzi through its paces, and it performed with the exceptional reliability one would expect from a weapon of this design. Fit and finish appeared to be excellent, as well. These fully transferable weapons are available only in 9mm, but .45

ACP and .22 LR conversion kits are available, and each gun is registered in all three calibers.

After Orpheus Inc. had finished blasting away with their bolt-on "Hell-Fire" trigger gadget, Jerry Tarble of Farmersburg Mount Company (16975 S. Truman, Farmersburg, IN 47850) rolled out a halftrack wearing a Browning .50 that was cradled in what the company calls its "soft mount". This device, they say, completely isolates both the gunner and the existing rigid or flexible mounts from recoil and vibration as the gun is being fired, resulting in smoother cycling, increased cyclic rate, and improved accuracy. One assumes that it also reduces long-term stress on equipment and personnel. Although I didn't get to personally try it, the device did seem to eliminate most of the "jar, jar" effect on the shooter, and downrange accuracy appeared quite good. (Jerry later switched the gun and mount to an M3 tripod and joined in the Arizona Emma Gees portion of the demo; again, the big .50 seemed very controllable. See photo previous page.)

Mike Miller and Cliff David of Calico Light Weapon Systems (405 E. 19th St., Bakersfield, CA 93305) showed off their stable of 9mm pistols and carbines built around their revolutionary helical feed magazine. Of particular interest to MGN readers, however, will be their recently introduced variations of the 900-series weapons with select-fire capabilities. These accept either the in-line 50 or 100 round magazines, feature cyclic rates of about 700 rpm, and range in size from a 35 inch carbine to a mini-subgun measuring just 17.5 inches, with several models in between. I was invited to fire a suppressed SMG, and given the limited time I had to familiarize myself with it, it handled pretty well, with no malfunctions. (We discussed with Mike the possibility of obtaining one in the future for a full evaluation.) Unfortunately, these guns are off-limits to the average collector; all are post '86, and as such, are limited to dealer samples and police and military sales.

Prior to his demonstration, and out of sight of spectators, Glock's Jim McNally had buried several of his company's pistols, representing various calibers, under several inches of fine Nevada sand, leaving nothing exposed but lengths of string attached to their trigger guards. He was assisted in his demo by members of the Army Pistol Team who had been participating in the SOF Three-Gun Match, and as each shooter was called upon, he would jerk a pistol out of the sand and blaze away. With the excep-

tion of a 10mm that experienced feeding problems, overall performance of the buried Glocks was admirable (a fact perhaps of interest to those in California, New Jersey, and elsewhere who are considering runs to stash in their backyards).

Worthy of "quiet consideration" were the full line of suppressed firearms shown by John Leasure and the crew from Silent Options (formerly Precision Arms International) (804-758-5233). Particularly recalled is a suppressed 9mm Sig that can only be described as impressively noiseless

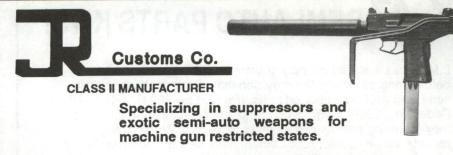
Navy Arms Company (689 Bergen Blvd., Ridgefield, NJ 07657), who were again showing their sniper rifles - the Parker-Hale M-85 and a scoped, bipod'ed version of the Chinese SKS - were represented by Paul Reed and Bruce Piatt, this year's winners of the Sponsor Team shooting event. In addition, Bruce was winner of the Three Gun Tactical Match for the second year in a row. To underline the M-85's accuracy, Paul delighted in touching off sticks of dynamite attached to gasoline bottles at ridiculous ranges.

As usual, Jonathan Arthur Ciener (6850 Riveredge Dr., Titusville, FL 32780) pulled the curtain on this first part of the show by displaying a wide assortment of items he manufactures, ranging from quality supressors for practically everything that oes "bang", to his .22 caliber conversion kits for M16's, AK's and Mini-14's, his M-203 grenade launchers, and his compact belt-fed M16 SAW. Then, it was time to take a break while the Emma Gees hauled out the hardware that would make up the second half of the Demo.

HISTORY LESSON

Actually, this year, there was a sort of "halftime show" provided by Dolf Goldsmith, who had brought along a quintet of ancient machine guns that all debuted prior to, or shortly after, the turn of the century. Included were a reproduction 1877 Gatling made by Thunder Valley (the only one of the guns that wasn't an original), a beautiful old 1879 Gardner gun (a competitor of the Gatling's), an MG08 Maxim, an Austrian Schwarzlose, and a French Hotchkiss. The crowd was given a brief background on each gun, which was then fired for effect. For most, it was probably the first time they had even seen one of these guns, much less seen one fired, and the moment was thick with history.

While we're waiting for the Emma Gees finish setting up, I might mention that the second Gatling gun I referred to at the beginning of this article was not officially



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part of the Firepower Demo. However, the motorized Gatling (read: G.E. Mini-Gun) was positioned a scant 100 yards to the left of the firing line at the rental (continues) concession operated by Military Weapons & Technology, and throughout the day could be heard belching it bellyful of 7.62 slugs. This gun, by the way, belongs to Jonathan Ciener, and is the same one that was featured on the cover of the October '91 issue of MGN.

FIREPOWER!

The grand finale of the Demo, always overseen by "Mr. Machine Gun", Peter Kokalis, is comprised of a comprehensive collection of light, medium, and heavy fullauto weapons, all of them either bipod or tripod mounted; no puny little SMG's or "mouse guns" here! The lineup includes antiques (Lewis gun, Potato Digger, Vickers, Maxim), state-of-the-art (M249, FN MAG), foreign (FAL, RPD, MG42), and domestic (watercooled Brownings, M2's, BAR, etc.). Invited to join in the fun this year, the author brought along a select-fire Springfield M1A in "E2" configuration, which filled a gap.

After the requisite introductions and individual weapons firing - spiced by shoot-from-the-lip banter between Kokalis and Kent "Constant" Lamont - the entire line went hot, and the desert was instantly filled with the din of chattering choppers and exploding pyrotechnics. As hot brass began to pile up, the gunners stretched for fresh cans of ammo; belts were inserted, new magazines slammed into place. Some of the home-grown napalm positioned downrange was close enough to the firing line that the heat seared the faces of shooters and crowd alike, lending an air of realism to it all, and the distant hills were obscured by a choking cloud of dust and smoke. The firing continued until ammunition supplies were exhausted.

With that, the 1991 Firepower Demo drew to an official close. Of course, still ahead were the Saturday night Awards Banquet and the many other diversions Las Vegas has to offer, but to most of those lined up to catch a ride back to the hotel, it was clear that everything else would be anti-climactic. We had all just experienced our own little Desert Storm.

As I packed my gun and magazines and hoisted my empty ammo can, I was already thinking ahead to next year.

MGN

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Jackie's First Suppressor

By Jack Lorenz

Liver since the gun laws here in Massachusetts were amended in 1989 to allow federal firearms manufacturers to possess suppressors, I have had a strong itch to obtain either a suppressed gun or a can for one of my subguns. After a lot of deliberation, I figured that I might as well start with a "silenced" .22 caliber pistol or rifle. Since I really like to shoot handguns (after I've had my fill of Rock N' Roll) I decided on a Ruger pistol with suppressor by Jonathan Arthur Ciener. Jonathan sold me on his Stainless Mark II with the 12 inch tube. During our conversation he told me

that he starts with the Stainless Ruger KMK-10 (10 inch barrel) and ends up with a quiet tack driver. This sounded good to me, so we got a Form 3 off to NFA Branch. Since Jonathan does not publish a photo of this particular pistol I could only guess what it really looked like. As a result, I was pleasantly surprised to see Jonathan show up at the June North Country Shoot. He displayed a goodly portion of his product line including - guess what? I really liked what I saw. Jonathan put a round through it for me and I also liked what I heard, which was not very much.

In due time, UPS came with my gun and when I opened the box, my first thought was that this is a nice thing! The fit and finish left nothing to be desired and the polish of the suppressor tube matched the finish of the Ruger pistol very closely. The front sight was perfectly fitted to the one inch diameter tube and with an overall length of 18 inches, this is an impressive looking piece. Well, sez I it looks good, so let's see how it shoots. Off I went to the club's 50 ft. indoor range with the Ciener-Ruger and a supply of Remington ammo. Jonathan recommends the use of Remington or Winchester Hi-velocity with copper coated bullets. The action will cycle and the bullets leave the muzzle subsonic, so there is no bullet "crack".

At the club, and after explaining to the guys that yes, this is a silencer, yes, it is legal, yes, you can have one too if you jump through all the proper hoops, and yes, you can shoot it, we finally got down to business. The technical evaluation was somewhat limited due to lack of sound measuring gear and chronograph, but what soon became apparent was:

- 1. Zeroing in is a breeze due to the decent rear sight and the 15 1/2 inch sight radius.
- 2. The only things we could hear were the action cycling and the rounds hitting the backstop.
- 3. The accuracy was there. From a solid rest, ten shots made a ragged hole in the target for a group of less than 1/2 inch.

This baby has potential! I roared home, dug through the catalogs, and ordered up a Tasco 2 X 22mm pistol scope in matte finish aluminum and a B-Square Dovetail Mount with one inch rings. The mount and rings are bright clear anodized and come very close to matching the finish on the stainless pistol. Assembling all this is a piece of cake, as the mount slides onto the Ruger's receiver. The mount has a hole which provides access to the rear sight window screw. This is handy because you can still peek through the mount and use the gun's sights after you mount the scope, although your field of view is somewhat limited. You will, however, have to remove the mount to adjust rear sight elevation. Best bet is to zero the gun's sights for the range you want before you mount the scope. I had a slight problem with the windage screw protruding too far from the



Lance Lorenz - "Look Ma - No Earplugs!"

Note: "Terminator" decal shown in photo is just for fun and is not supplied with gun.



Ruger pistol with suppressor by Jonathan Arthur Ciener.

sight base and had to file a shallow grove on the inside of the mount which allowed the mount to clear the screw. No big deal. If you have this problem, you can also run the screw in and out when you remove and replace the mount. Just keep track of the number of clicks.

O.K., off to the 50 yard line with sandbags and B3 targets (3 inch bulls). The question and answer period with the guys was a carbon copy of the one at the 50 foot range. Shooting was even quieter outdoors. The action cycled and then the bullet struck. I'm sure that there must be some noise at the muzzle, but we could not pick it out. One day I'll devise a way to lock the bolt into battery and find out. Group size? Well, one inch groups were the norm. The Ruger has a crisp but heavier-than-youwould-like trigger. With a lighter pull and a scope of maybe 4X, I know that even smaller groups would be easy to come by. Jonathan was right.

What about maintenance? Ciener says don't take the unit apart, it is self cleaning. Time will tell, but I tend to believe him. After I run a dry brush through the bore (as recommended) I tap the barrel against my palm several times and notice carbon particles falling out. If this stops, I'll worry. Be sure to wear glasses when you shoot one of these toys. I have noticed hot particles exiting the ejection port. Also, remember that you will have to clean the gun often. Most of the by-products of combustion don't come out the little hole in the front of the gun and therefore go everywhere else. Also, the chamber gets dirty very quickly. I don't like to clean bores from the muzzle if I can avoid it and don't want to have to pull the Ruger's bolt just to clean the chamber, so I made up a bent bristle brush with a short handle. I can sneak it into the ejection port and scrub the chamber quite nicely this way. (Ain't I smart?)

Almost forgot: The B-Square Dovetail Mount bears against the intersection of the Ruger's receiver and grip frame. On the plus side, you won't lose scope zero if you remove and replace the mount. On the minus side, you have to loosen the three clamping screws to get the gun's grip frame off and on again. Sooner or later you will

crank the stainless steel screws too tight and destroy the threads in the aluminum mount. I tend to tighten everything as if it had to stay rock solid forever on a .458 mag and stripped the threads early in the game. No problem. Longer screws and nuts on the other side make the problem go away forever. Looks better too. (One can justify anything.)

The bottom line? I'm very happy with the Ciener-Ruger. I can hit a beer can at 100 yards if the cross hairs are on it. The bullet drop is another 5 inches 50 yards to 100 yards and I just have to crank in ten clicks of elevation on the Tasco scope. I can plink away anywhere (safety considered) and not make a racket.

If you are a Massachusetts resident and want to acquire suppressors, consider the following: only "Federally licensed firearms manufacturers" may posses them in this state. This is state law. If you try to bring one in on a Form 3 or Form 4 and do not have an 07 FFL, and NFA Branch a approves transfer in error, the advertised penalty is more than you want to deal with. Do you need a tax stamp? Does it have to be Class 2 or is Class 3 O.K.? I don't know. Do you need a "Massachusetts license to posses a machine gun" to bring in a suppressor? The state says no, but I had to supply it to bring in a pen gun. I suspect that some NFA examiners may want to see the machine gun license (green card) for all Class 3 type items. If in doubt, get clarification from the state and NFA Branch before you start a transfer. If anyone has done this, please write in and let us know. If an 07 FFL and a Form 4 were to pass muster, more Massachusetts residents would be able to enjoy "quiet shooting".

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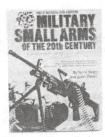
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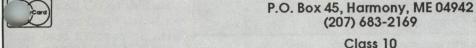
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A Reliable Handload For The H&K MP-5

By Steve Parker

The 9mm Parabellum, a Latin word meaning "for war" is a small efficient cartridge developed originally for a military side arm, the Luger Pistol. Designed with a tapered case that was never intended to be reloaded, this cartridge is one of the most difficult to reload.

If you are a handloader with a Dillon progressive press and happen to own an MP-5, no doubt you have experienced problems in producing a reliable reload that will feed, chamber, fire and eject properly in your gun. The usual problem is a failure to extract the case. The usual reply to this reloading problem is, never shoot reloads in your MP-5. While this is good advice for all subgun owners, some of us would like to

stretch our shooting dollar by using only our own reloads. If you produce a high volume of rounds in a short time on your reloading press then very possibly you should not be loading for your subgun. You must slow down, take your time and make sure everything is absolutely right. If you are willing to be extremely careful and believe in your ability to produce a safe reload then you can shoot more for less by reloading for your MP-5 submachine gun.

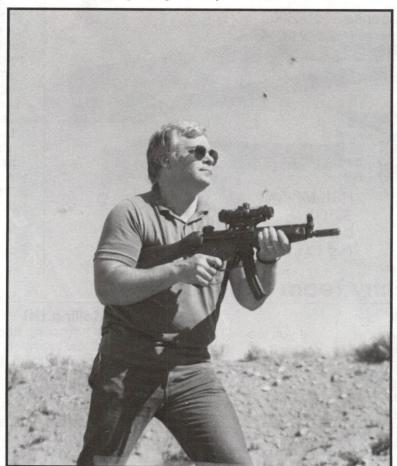
The 9mm is a high pressure cartridge. When resizing your 9mm cases you have probably noticed a ring around the base of the case. This is a slightly raised belt one sixteenth of an inch or so that is resized less than the forward or neck portion of the case. The reason for this is the beveled mouth of the RCBS carbide die. All of the various manufacturers of carbide dies will leave this same ring, some more than others.

The first step to a reliable reload is to take the resizing die to a machine shop that has a surface grinder. Ask them to remove approximately 1/32 of an inch from the base of the die. This procedure will remove most of the beveled base on the die and of course voids any warranty. This will allow you to set the die low enough to lightly resize the small ring at the base of the case. You will also notice the forward part of the case neck is now slightly undersized. However, I have not found this to be a problem and in fact it aids in a positive nonslip grip on the bullet. Set your resizing die low enough so that all your resized cases will easily slip inside a Midway Arms Max Cartridge Gauge. If all your cases will not fit inside the cartridge gauge and the die is adjusted as low as possible then you need to remove a little more metal from the base of the resizing die. Occasionally a case may catch on the edge of the die while resizing, but this inconvenience is well worth the trouble. Because this cartridge headspaces on the case mouth, you will get the best results with a taper crimp die in the last station of your press. Also try not to use 9mm brass in your MP-5 that has been fired in an oversize chamber such as in the M-11 Mac or MK 760.

Next you need to use a powder with the correct burning rate to properly cycle the action. I have tried many different powders and thus far the best one has been Accurate

Arms #5 using 6.3 or 6.4 grains of powder. This averages 1180 fps using a 12/ grain FMJ bullet. Overall length of the loaded round is 1.140 inches. Any clean burning powder with the same approximate burning rate as AA #5 should work fine. This load is not quite as hot as factory ammunition, but for reloading purposes this is an excellent load and will prolong the life of your cases. The above reload is about 100 fps slower than factory American Eagle ammunition with the 124 grain FMJ bullet which averages 1278 fps in my MP-5.

I have never found it necessary to trim 9mm cases and always clean them in a tumbler. As for other components I use Winchester WSP small pistol primers. I like the heavier bullet for the 9mm as does the military. I use the 124 grain FMJ or TCJ (total copper jacket) round nose bullet with no exposed lead as manufactured by United



Chuck Hinson shoots more for less using his own reloads.

States Ammunition Company now called Rainier Ballistics Corp. and sold by Black Hills Shooters Supply. The lead cores are swaged under high pressure and then slowly electroplated with copper in a process king up to five hours. If you haven't tried myet you should. They cost less than other manufacturer's FMJ and are a good value for your reloading dollar. Because this bullet has a thin jacket and sometimes separates from the lead core, you should never shoot them in a suppressed weapon.

If you are reloading cases fired only in your gun and sort your brass to a specific manufacturer you might not have to modify your resizing die. I have always used mixed brass fired in various guns for subgun practice. The only way to tell is to use the chamber gauge and make sure none of your rounds fit tight in the gauge. Even then you may have some problems if you do not modify the die. The same reload that will work perfect in a Browning High Power will usually chamber in the MP-5, but occasionally it will be difficult to extract, causing a malfunction, unless you have modified your resizing die. This solution also works for the Glock 9mm pistol which does not like reloaded ammunition.

I have been reloading for many years with no problems and just went crazy trying to reload for the MP-5. After two years of ring all kinds of ideas and various components I feel the problem has finally been solved. If you have the same problem loading for your MP-5, I hope this information will be helpful to you. Happy Subgunning!

References:
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.22 Caliber Pen Gun

By Rob Gudz



first met Johnny Vitte at a gun show in Fort Lauderdale, Florida. Among his display of MAC's, Stens, H&K SMG's and short barreled shotguns was a small glass display case about the size of a cigar box. Inside the case, nestled in soft velvet, was a pen - you know the type - the kind with the large screw-off cap that you can buy in the drugstore for fifty-nine cents. On closer inspection I discovered that what I had mistaken for a pen was really a meticulously constructed Pen Gun. I was amazed by the close resemblance this .22 caliber firearm had to a real pen so I made arrangements to talk to Johnny in more detail about his "power pen".

Johnny's pen gun began he says, as a "hokey-pokey design" that he worked on for months, testing and refining. The first batch of pen guns were made in .22 short and were tested with hundreds of rounds fired through them, probably more than will ever be fired by the purchaser. Accuracy testing was performed in a rudimentary, but effective manner. Johnny fired the weapon from between 3 and 5 feet into the open end of a 5 gallon bucket and

all of the rounds impacted right in the center. In fact, Johnny says that his pen guns were a "little more accurate than we had expected".

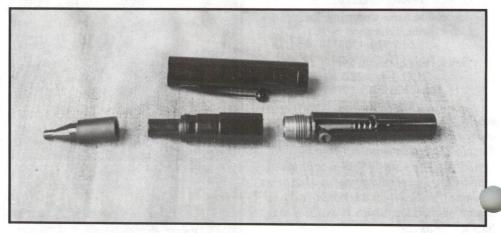
After finishing his first production run, Johnny placed an ad in Shotgun News and Machine Gun News, and sold the entire batch within a matter of days. He is now well into his second production run but under the suggestions of many customers he is making some changes to his original

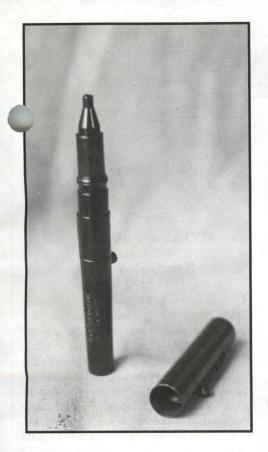
design. The major change is that the second batch will be chambered for the .22 long rifle, with an optional head available at an extra cost in .22 magnum.

Johnny's "Power Pen" is composed of seven pieces. The body is made of 12L14 steel which he machines to his exact specifications, to include a taper at the end (like a real pen is tapered and is five inches long overall). Both the bolt and the breech block are machined from 01 drill hard steel. The breech block is attached to the rear of the weapon in this new design, whereas in the first run it was an individual piece which had to be placed, by hand, behind the cartridge. A definite improvement, in my opinion. The firing pin is inserted in the breech block through a process which is as Johnny describes it, and "ancient Chinese secret". We'll let it go at that. The cocking knob is a simple 4-40 Allen crew which engages notches cut into the lower half of the pen body in a safe-uncocked and safecocked position. The spring that drives the bolt is the exact length and tension that he has calculated as optimum for his design. The spring is two inches long and is made of Stainless Steel with flat ground ends.

Finally the pen tip and cap are adapted from real pen parts. The tip is reamed to fit into muzzle of the weapon and is able to accept a standard ball point pen ink cartridge that has been snipped to about an inch long. Johnny does not supply these ink cartridges. The pen cap is adapted from a real pen, complete with clip.

Johnny kept pens in mind when he chose the finish for his weapons. He told me that





since "Parker doesn't parkerize their pens" he didn't think that he should either. Instead, he finishes them with a black polyurethane paint, sprayed thin, which auses the pen gun to look and feel like a eal pen.

Firing the "Power Pen" is accomplished by removing the pen cap and the tip, holding the pen in you hand and sliding the cocking knob to the rear with the thumb of the same hand, thereby moving the bolt to the rear and compressing the spring. Releasing the cocking knob causes the spring to expand and propel the bolt forward, forcing the firing pin to strike the cartridge, and fire the round. The recoil is nearly nonexistent and the sound level is about that of a starter pistol.

In closing, I would have to say that I was very impressed with the quality of workmanship that Johnny puts into each and every "Power Pen" that he builds. The time and effort that goes into each of these pen guns and the resulting beauty of the finished product is certainly top-notch. Price - \$300.00 retail. Johnny's company "Johnny's Armory" is located at 1970 NW 55th Ave., Margate Florida (305-973-4481). Since the BATF classifies pen guns as "any other weapon" there is only a \$5.00 transfer tax - all you James Bonds out there all your Class III dealer and get a hold of the "Power Pen" - they are certainly worthwhile. MGN

R.D.T.S.

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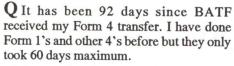
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The Forms

by Dan Shea



My question is what steps does NFA Branch have to complete to approve these transfers? It seems like they must have desks piled high and file cabinets stuffed full of pending applications.

Anxious, Mark H.

A I have seen transfers on Form 4's go through in 20 days or less. I have also seen them take 18 months. I've seen Form 3's with one day turn around, and also 8 months. It's very hard to explain what it is that causes a delay. Your vision of desks piled high is pretty accurate, and it is directly related to the past few years of being understaffed and massive increases in the amount of transfers being done.

The Form 4, Tax-paid transfer to an individual, must first go for processing to the lock-box in Chicago. Your check is processed here, and the application is forwarded to Washington DC. On arrival in DC, it is assigned a document number, and an examiner. The examiner initiates the background checks and the FBI fingerprint comparison. The FBI takes a minimum of two weeks to do the check. NFA Branch expects a Form 4 transfer to take around 90 days from the date that they assign a document number, so your 92 days is probably their 70 days. You've got to be patient with them. If the waiting is too much for any prospective class 3 buyer, perhaps class 3 is not for them, there are plenty of neat semi auto guns out there. For the rest of us, as my friend Michael Angelo says, If it don't go B-B-B-BANG, it ain't worth a damn.

Q In one of your recent columns, you wrote that reproduction stocks were legal on certain pistols, like the Luger and Broomhandle Mauser, but that the only stock allowed for the Inglis Hi-Power is the original Canadian issue model. In other words, these guns cannot be legally possessed with one of the Chinese-made reproduction stocks. I am sure that there is some kind of foggy reasoning behind this absurd ruling, but it escapes me. The Canadian Brownings are certainly collec-

tables, present no more of a threat to society than the previously mentioned guns, and the original stocks are so rare that they are practically nonexistent. Could the reason be that this particular offering of the P35 has not reached its 50th birthday? And is there anything that can be done to get BATF to change it's classification?

Hasta la vista,
"Name Withheld"

A I agree. This classification is foolishness. I keep waiting to hear about the mugger who considered himself more effective when he had the stock on his Inglis. I'm certain that in a very short period of time, if enough people write in requesting a change of classification, that the change of classification can be had.

Q This in response to the answer you gave to "John" on pg. 33 of the Oct. 1991 issue, in your answer to his queries regarding the transfer of an M-79 receiver you state "Unless your customer is a corporation, that Form 1 is going to require a law enforcement signature." Does this mean that all transfers of DD's and full-auto firearms to corporations as opposed to individuals do not require a law enforcement signature under federal law? If so, can this be any type of corporation? I am contemplating moving to another state which permits fullauto ownership, and have talked to several Class 3 dealers who have told me getting the local law enforcement signature can be the major stumbling block in the transfer process.

> Thank you, Robert

A Yes, it's true, a corporation does not need to get a law enforcement signature or submit fingerprint cards or photographs for a Form 1, 4 or 5 transfer of an NFA weapon. NFA Branch is going to want to know the reason for the corporation to own the firearm. Corporate investment, R&D, course of business (for a security firm), all are legitimate reasons that I have seen used in the past. Be prepared to document anything you tell NFA Branch. Remember that the firearm will have to be disposed of in the event of the closing of the corporation, and this will entail transfer taxes, and probably law enforcement certifications.



Q Where does a Curios and Relics licensee go to get Form 4's and fingerprint cards?

Charles W.

A ATF Distribution Center 7943 Angus Court Springfield, VA 22153 703-455-7801

Q I have an M37 Browning registered sideplate. Since I cannot locate an M37 parts kit to assemble the plate into a working firearm, I would like to know if it is "LEGAL" for me to assemble the sideplate with an M1917 Browning parts kit which I have located. As you may know the dimensions of the M37 Sideplate do not exactly match that of the M1927 sideplate; therefore, some modifications to the M37 plate would be needed to assemble it to the '17 parts kit. I would like to know what the law in general is regarding assembling . modification of registered receiverssideplates is before I consider investing in the '17 parts kit. Also must the assemblar of registered receivers into working firearms be undertaken by a class 2 manufacturer or can an individual do it.

I look forward to your reply as I feel I am not the only one contemplating this matter.

A law abiding Emma Gee

A Anyone can assemble a firearm for personal use, that is eligible to own it. Manufacture for resale is only allowed for a licensed manufacturer. Changing models is allowed, but I strongly suggest getting approval from Firearms Technology Branch, BATF, 202-566-7131. Get it in writing. The change from M37 to 1917 is pretty basic, and has been approved frequently. I suggest that you contact the person that you purchased this M37 plate from, he probably has the information available. For the more creative of you out there, a word of caution. There is little similarity between a Sten tube and a Minigun other than they are both round. It won't fly, guys.

> Questions to: Dan Shea, C/O MGN, PO Box 759, Hot Springs, AR 71902

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	are on the curio and relic list		MP40 Dewat plugged barrel original matching #'s \$1295
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	AK-47 7.62 x 39 full stock NIB		MP40 mismatch #'s good condition \$1595
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	gun is a closed bolt machine gun	. \$ 995	MAC 10 9mm used very good
	Beretta BM 59-308 Cal. NIB		SWD M11 9mm NIB
	BAR Royal Typewriter excellent		SWD M11A1 380 NIB\$ 695
	1917 Browning Water cooled with two calibers		RPB 380 used very good
	30:06 and 308 complete with tripod new gun		Mix or match 3 or more MAC's or SWD's for \$50 each discount
	with reg. sideplate	\$3500	Russian DP28 Original with 6 mags good condition \$2750
	Colt MG 40 ANM2 No bipod		Ruger AC556
			Ruger AC556F folder
	Colt 9mm CAR excellent		
	Colt M16 very good		Ruger KAC556 Stainless
	Colt M16A1 U.S. Property marked good condition .		Ruger KAC556F Stainless Folder \$1495
	Colt XM16E1 U.S. Property marked excellent		Star 63 9mm Pre 86 DS as NIB \$1395
	Colt M16A1 NIB	. \$2500	Savage ANM2 with bipod original \$2200
	Colt M16A1 Heavy Barrel with factory bipod new	. \$3200	TEC 9 Full Auto
	Colt M16 Carbine 14 inch barrel	. \$2600	Star 63 9mm Pre 86 DS as NIB \$1395
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Archive Photo of the Month

From the Robert Bruce Collection



attack. The PULEMET DEGTYAREVA uses a locking flap system pioneered (some say stolen), in the FRIBERG-KJELLMAN. This proved to be Sevastapol, USSR, 1940. Soviet naval infantrymen with a DP 28 light machine gun secure the approaches to this key base against imminent German simple, hardy, and effective under the harshest conditions of service in the "Great Patriotic War". Credit: US Army Mil. Hist. Inst. Negative ID: DP28/NAV. Copyright @ 1991 Robert Bruce Photography.

Editor's Note: Prints of this and may other historical auto weapon action photos are available by special arrangement with ROBERT BRUCE PHOTOGRAPHY. PO Box 482M, Sandston, VA 23150. Send \$1 for details.

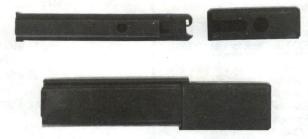
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Class 3 looking for original Inland M2 carbine. Please call or write with condition and price. Matthew Biederman; 2913 Darrtown Rd; Hamilton, Ohio 45013 513-863-7900.

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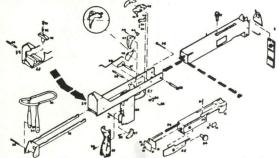
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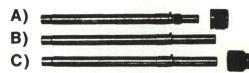
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