

\$5 U.S. \$6 Can.

THE GUIDE TO MODERN SMALL ARMS

Vol. 10 No. 4

MACHINE GUN

NEWS

**Gemini Technologies:
"The Dream Team"**

**West
Hurley
1928
Thompson**

**Harris
.50 BMG
Rifles**

The MG42

**North Country Shoot!
Dynamite, Firecrackers &
200,000 Rounds of Ammo!**

**Functioning &
Safety:
A Headspace
Tutorial**



LAKE CITY ARSENAL! .50 CAL. AMMO!

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

Lake City 1980s, M33 Ball Ammo

Linked for M2HB, in 100-rd. cans, two cans per wooden case.
\$2.25 per rd. 200 @ 2.15 per rd. 1000 @ 2.00 per rd.

Winchester!!!

WCC late 1980s and 1990 linked 100 rds. per can, all M33 ball. We have never seen this ammo anywhere, ever—it was military contract run, bought by the contractor. We have about 20,000 rds. of this left, so get it now, while you can!
\$2.35 per rd. 200 @ 2.25 per rd. 1000 @ 2.10 per rd.

Armor-Piercing Incendiary 50 Cal. M8!!!

This is Remington Arms U.S. government 1944 mfg., linked in 100-rd. belts—none better for blasting out there!
\$2.75 per rd. 200 @ 2.60 per rd. 1000 @ 2.45 per rd.

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

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

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

20 mm Target Practice Ammo

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

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

Stoner 63 links. \$1 each. 50 for .75¢ each. 100 for .55¢ each. 100 rounds linked ammo in Stoner 63 box \$155.

Ammo Collectors!!!

6 mm ammo from the SAW trials.

We have just a couple of rounds of this ammo, on the original 6 mm BRW links. Try and find this one! Ball \$7 per round with one link. Tracer \$12 per round with one link.

Short Range .308! Canadian Military SRTP Ammo—blue plastic tip. \$1.50 per rd., \$39 per box of 40—real rare and strange.

Ordering ammo: .50 cal. ammo is shipped FOB Harmony, Maine. The charge is \$11 per hundred East of the Mississippi. West of the Mississippi you need to call for a quote. Larger quantities will be figured "as ordered." If you want it delivered at Knob Creek in Kentucky in October 1996, prepay your order and there will be no delivery charge! Incendiary and tracer must be legal in your area, or we will not ship to you.

MORE AMMO!

.308 French (SF) 1973 Belted for the M60 Machine Gun
50 round belts. We shot up a couple of cases at the Hiram Maxim shoot—not a single problem. Boxer primed, crimped primer pockets 50-round belts \$10. 1600-round case. \$295.

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

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

9 MM-147 gr. Subsonic FMJ with the appropriate round nose we all look for. LMO uses this in all suppressor demos, Law enforcement sales as well as in all of our submachine gun and pistol shooting. Our experience is that you can count on this ammo. It is new manufacture, and we have fired over 50,000 rounds of it without any problems. Highly recommended for suppressed SMGs especially. 50-round boxes for \$9.50. 1000-round case \$189.

Remington .308 Accelerators

Here is a rare opportunity—some of the discontinued sabotaged reduced projo ammo., .55 gr. projectile from a .308 cartridge. We only have a small quantity. \$12 box of 20 rounds.

.303 POF 1965 Ball

32 rounds per box—we use this on the Brens and Vickers guns. Corrosive, but burns real clean. Pakistani Ordnance Factory. Box 32 rounds \$8 case. 768 rounds \$168.

40 mm PRACTICE Grenades M781

Mil spec grenades. Blue tip, plastic case, orange marking powder. These are legitimate contract from the manufacturer, same as the Army buys. 1996 manufacture. \$7.50 each. Case of 25 \$6 each. 100 rounds @ \$5.50 each.

7.92 Kurz. We have a small quantity of this left .30¢ per round.

MP-5 Barrels

Original West German HK barrels, with the three-lug feature. These are brand new, taken out of W. German guns. We only have a couple left. Only \$375 each.

MP-5 3-Shot Trigger Group. Only one left, this is an 0-1-3 housing and internals. Brand New. Ambidextrous. \$575.

M14 Magazines: 20 Rounders

Unrestricted. These are brand new, Norinco mfg., and work great. \$16 each. 3 for \$14 each. 10 for \$100.

.50 Cal. M2HBs!

We have a small quantity of U.S. Government manufactured, combat grade Saco M2HB machine guns available. These are the real thing—built for U.S. forces. These have never before been offered on the civilian market and never will be again. Guns are like new and should provide years of reliable service. "Sideplate guns" make you nervous? These are the answer for the fifty shooter. You still have to be proficient with the gun. And be careful, there is no substitute for safety and training. These are fully transferable to individuals! **Saco M2HB \$7500.**

M3 Tripods. These do not have the T&E and pintle, are brand new government tripods, not rewelds or refinished!!
We have 10 left. Only \$750.



CATSET LLC

P.O. Box 45, Harmony, ME 04942

(207) 683-2169 ■ Fax (207) 683-2172 ■ Class 10 ■ LMO4MGS@AOL.com

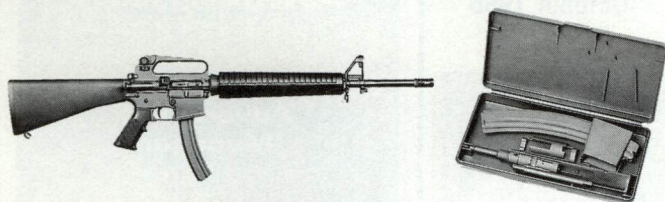


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Ammunition prices continue to rise. The government continues to try to restrict supply.

.22LR CONVERSION KITS

Save your valuable ammunition AND still enjoy your shooting sport AND do more for less money.



The "HOHREIN" .22 LR Conversion Kit for

Mini-14/AC556

\$119.00 w/10-rd. mag. \$159.00 w/30-rd. mag.
Spare 10-rd. mag. \$23.00 Spare 30-rd. mag. \$59.00
Standard kit fits serial number prefix 181 thru 187.
Prefix number 188 kit, add \$10.00. AC556 uses standard 30-rd. mag. kit.

The "ATCHISSON" MKIII .22 LR Conversion Kit for

AR-15

\$139.00 w/10-rd. mag.
\$179.00 w/30-rd. mag.
Spare 10-rd. mag. \$23.00

M16

\$159.00 w/10-rd. mag.
\$199.00 w/30-rd. mag.
Spare 30-rd. mag. \$59.00



The "CIENER"

1911A1 .22LR CONVERSION KIT Patented

Models for full size, Combat Commander, and Officer's .45 ACP pistols (specify)



From .45 ACP to
.22LR in 10 seconds
for just
\$179.00
Spare 10-rd. mag. \$35.00



Kit on Series 80 Colt

Kit in Fitted Case



Kit in Fitted Case



From 9mm to .22LR
in 10 seconds for just
\$199.00
Spare 10-rd. mag. \$35.00

Kit on Beretta 92FS

Rifle kits consist of all the parts necessary to change your firearm to function with inexpensive .22LR in moments.

The pistol kits consist of a new slide, .22LR barrel, return spring and guide rod, recoil buffer and magazine in a fitted plastic case.

The pistol kits and magazines are offered in Gloss Black, Matte Black, and Silver finish at no additional charge.

They function **FLAWLESSLY** (guaranteed) using quality High Velocity ammunition. The pistol kits can even use Hyper and Standard Velocity.

Order direct: No FFL required. Send Cash, Certified Check, Money Order or C.O.D. Personal check orders held two weeks to clear.

Include \$5.00 shipping per kit. Due to limited quantities, handgun kit orders are prepaid only.

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Manufacturer of the Finest in Suppressed Firearms

"The Standard For Comparison"



Ruger MKII Government Model Pistol
with "HIGH VOLUME" Suppressor
Parkerized or Stainless ONLY \$599.00



Ruger M77/22 Bolt Action Rifle with integral Suppressor
Blue ONLY \$725.00, Stainless Steel ONLY \$715.00

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Does not include Federal Transfer Tax.

NFA Licensees send a copy of FFL with EIN number and Class for our illustrated informative catalog and confidential dealer price list.

All others send \$5.00 for catalog or \$14.00 for catalog and distinctive logo T-shirt or Baseball cap (specify).

CURRENT RETAIL PRICES EFFECTIVE JANUARY 1996

RUGER MARK II Pistol with Suppressor.....	\$499.00
RUGER MARK II Stainless Steel Pistol with Suppressor.....	\$575.00
RUGER MARK II Pistol with 8" "High Volume" Supp. (Park. or S/S).....	\$599.00
RUGER MARK II 10" Barrel Stainless Steel Pistol with Suppressor.....	\$599.00
WALTHER TPH Stainless Steel Pistol with Suppressor.....	\$799.00
Suppressor fitted to your firearm.....	\$399.00
WALTHER PPK, PPK/S Pistol with Suppressor (Blue or S/S).....	\$889.00
RUGER 10/22 Deluxe Sporter Rifle with Suppressor.....	\$575.00
BROWNING BA22 .22LR Auto Rifle with Suppressor.....	\$679.00
RUGER M77/22 .22LR Bolt Action Rifle with Suppressor.....	\$725.00
RUGER K77/22 .22LR Stainless Steel Rifle with Suppressor.....	\$715.00
MARLIN 880 .22LR Bolt Action Rifle with Suppressor.....	\$549.00
REMINGTON 700 BDL Varmint Rifle w/Suppressor and Barrel cover.....	\$995.00
Suppressor and Barrel Cover fitted to your Heavy Barrel.....	\$495.00
RUGER M77V Heavy Barrel Rifle w/Suppressor and Barrel Cover.....	\$995.00
Suppressor and Barrel Cover fitted to your Heavy Barrel.....	\$495.00
AR-15/M16 Suppressor (Fits A1 & A2).....	\$375.00
M1A/M14 Suppressor.....	\$375.00
RUGER MINI-14 Suppressor (GB model only).....	\$375.00
MAC 10 (.45 or 9mm) MAC 11 (.380), or SWD M11/9 (9mm).....	\$375.00
UZI SMG or S&W M76 & MK760 Suppressor.....	\$399.00
BARREL/SUPPRESSOR ASSEMBLY for UZI semi, M3/M3A1 Grease Gun, or Sten MKII.....	\$449.00
BARREL/SUPPRESSOR ASSEMBLY for HI-STANDARD .22 Auto.....	\$399.00
BARREL/SUPPRESSOR ASSEMBLY for THOMPSON "CONTENDER" (.22 only).....	\$559.00

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MACHINE GUN NEWS

THE GUIDE TO MODERN SMALL ARMS

Volume 10 Number 4

October 1996

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Rain Protection at the North Country Shoot (page 44).

On the Cover: Dr. Philip Dater lets loose a full-auto blast through an M4 with Gemtech's new M4 suppressor. Sunset photography and digital composition by Jim Bonis. Dater photo by Dan Shea. See the complete story on Gemini Technologies full line of suppressors beginning on page 34.

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M2HB .50 CAL. MFG. F.N. BELGIAN

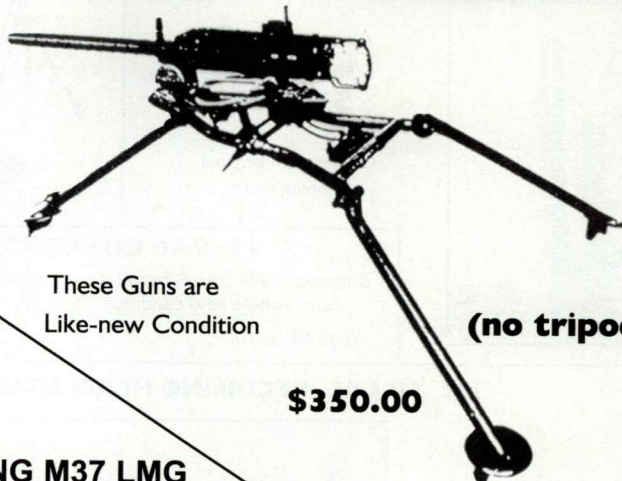


Firearm Only

Superb Quality in Excellent Condition

\$2500.00

FN MOD. 30 LMG IN .308 CAL.

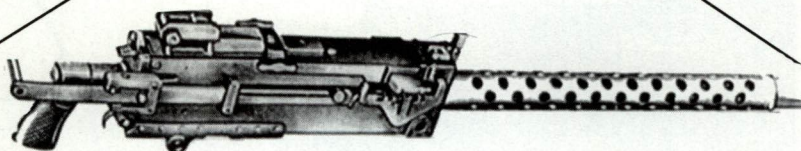


These Guns are
Like-new Condition

(no tripod)

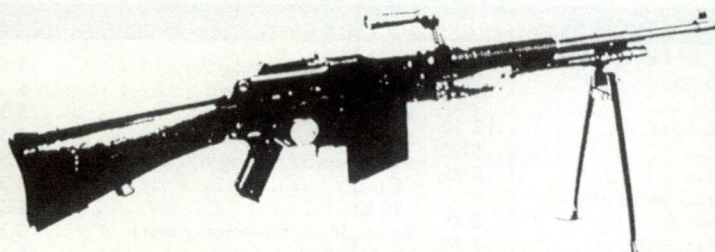
\$350.00

THE BROWNING M37 LMG



\$950.00

FN-MOD D LMG IN .308 CAL.



Made on Special Contract from Israeli Gov't. New

\$550.00

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**CLASS III DEALERS &
LAW ENFORCEMENT INQUIRES ONLY.**

**Must Have Letter of Purchase or
Demonstration for Government Agency.**

**All Firearms in Excellent
Functional Condition**

ORIGINAL U.S. G.I. WWII 1928A1 THOMPSON SMG



In Great Condition
w/one stick mag

\$450.00

**Original G.I. 50-rd. Drum
Available, Additional
\$300.00**

ORIGINAL U.S. G.I. WWII M1 THOMPSON SMG



In VG+ Condition

\$250.00



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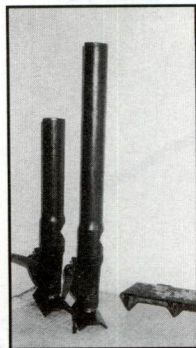
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BRITISH 2 INCH MORTAR



Airborne version
(short or long)
\$150.00

Comes with original
shipping crate.



ORIGINAL WWII MORTARS

Rendered unserviceable according to BATF specifications.
However, they are still considered Title I firearms.
Must have standard FFL license.

Original WWII Russian 82 mm Model 37
complete with baseplate and bipod
\$450.00 + shipping

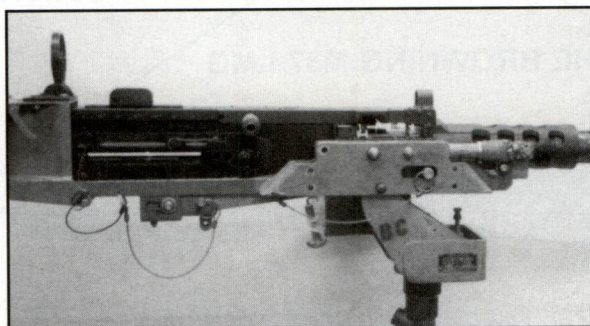
1919A6 CONVERSION

Buttstock, .308 barrel, barrel jacket, bipod, flashhider,
carry handle new condition \$350.00
W/.30-06 barrel \$250.00

M2 .50 CAL. RECOILING HEAD CRADLE

Original U.S. Navy re-
coil absorbing cradle
complete with
M2 backplate with
remote trigger bar.

\$1250.00



Limited quantity.
(Firearm not included.)

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\$2500.00

Complete with carrying straps.
(Firearm not included.)
In mint condition. Limited quantity.

Quality Machine Gun Complete Parts Sets

FN M2 .50 cal. HB less right side plate	\$1550
ANM2 .30 cal. in .308 Browning, orig. complete.	\$950
ANM2 .30 cal. parts set only	\$450
ANM2 .308 conversion parts set	\$550
M1A1 Thompson U.S., G.I.	\$200
MAT 49 (for dummy only)	\$125
MAS 38	\$200
Italian WWII Breda Model 30 6.5	\$550
Beretta Model 38/44	\$165
MAG 58	\$4500
PPS 43	\$150
Madsen Model 46, .30-06	\$225
FND BAR .308	\$625
1928A1 Thompson U.S., G.I.	\$350
1928A1 Thompson w/flnned barrel & Lyman sight U.S., G.I.	\$575
1928A1 Bolt compl. U.S., G.I., N.O.S.	\$150
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ZK383 excellent cond. with bipod	\$250
Less bipod	\$200
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2 or more each	\$200

ORIGINAL WWII GERMAN MG42 BOLT HEAD

Complete with extractor assembly
and rollers, new condition.

\$150

Magazines

MP44 mags, 30-rd., excellent plus (ea.)	\$75
2 for	\$125
5 for	\$250
M3 U.S. .45 cal. SMG 30-rd.	\$10
12 for	\$100
ZK383 30-rd	\$65
Madsen .30-06 30-rd. mag 5—each in original carrying can.	\$75
L2A1 30-rd., unissued cond	\$75
MP41 32-rd., very good	\$55
MP38/40 flat side mag	\$55
Thompson 30-rd. mags	\$10
Bren 8 mm 20-rd. mag	\$65
PPS 43 mags 30-rd. (ea.)	\$35
PPSh-41 mags 30-rd.	\$35
Lanchester-STEN 50-rd. mags	\$55
MP40 mags 32-rd. orig WW II A (ea.)	\$55
B (ea)	\$30
10 for	\$250
Reising 30-rd. new-made, guaranteed	\$55
Sterling 45-rd. exc. plus	\$55
10 for	\$500
Orig. WWII Thompson 50-rd drum, vg	\$200

Accessories

FND Barrel .30-06	\$100
FND Barrel 8mm	\$200
FND Barrel .308 cal. excellent	\$250
1908 Maxim sled mount top strap	\$250
1908 Maxim steam condensing hose	\$100
MG3 MG42 .308 Conversion set barrel, flashhider, top cover, feed tray, Rheinmetall Mfg.	\$850
MG3 100-rd. assault box	\$100
MG3 complete bolt	\$400
MG3/42 .308 barrel 4140 Steel H.T.	\$250
MG15 Gunner's Wallet-complete with 2 spare firing pins, 2 spare extractors, 2 complete firing pin holders, ruptured case broken shell extractor and oiler	\$450
MG15 Bolt complete	\$350
MG15 Barrels	\$350
MG15 75-rd drum loading tool	\$350
1919A4-A6-M37 IMI Mfg. .308 cal. new unissued barrels (ea.)	\$100
2 for	\$170
3 for	\$250
Orig. FN MAG barrels complete. new cond.	\$675
Orig. FN MAG bolt complete with firing pin	\$300
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1919A4 IMI .308 cal. links, new in wrap 2,000 for	\$75
10,000 for	\$350
1919A4 .30-06 barrels, used	\$25
5 for	\$100
1919A4 .30-06 barrels, new	\$50
3 for	\$100
Vickers brass tab reloadable belts	\$50
Vickers Mk1 tripod, new condition	\$250
Orig. Vickers leftside plate	\$200
P17 Bolts stripped	\$15
Browning .308 broken shell ruptured case extracting tool	\$15
British .303 broken shell extractor for machine gun or rifle	\$10
MG34 feed trays	\$60
MG34 bolt extract tool	\$35
MG3 slings, current issue. Same as MG34/42	\$55
U.S. G.I. M2 60 mm mortar canvas carrying slings new in wrap	\$20
U.S. G.I. M2 .50 cal. barrel new-in-wrap (ea.)	\$250
2 or more (plus shipping)	\$200
Beretta M9Z pistol, barrel assembly complete with locking block	\$65

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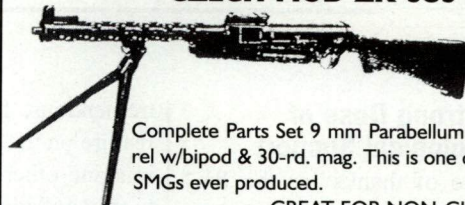
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Minus Receiver
\$200.00

CZECH MOD ZK 383



Complete Parts Set 9 mm Parabellum quick-change barrel w/bipod & 30-rd. mag. This is one of the finest quality SMGs ever produced.

Less Bipod
\$200.00

GREAT FOR NON-GUN

\$250.00

ORIG M2, 60MM WW II MORTAR

Complete. w/sight, bipod, base plate
& original shipping crate.

\$1250.00

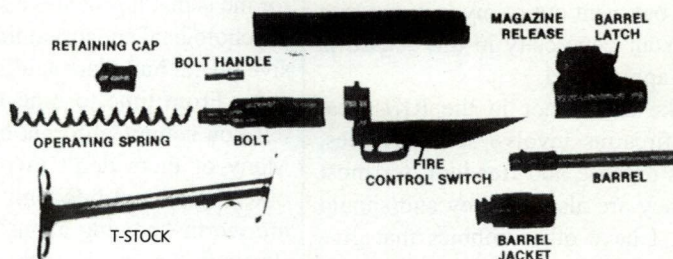


Bipod
\$250.00

Shipping crate
\$65.00

Fully transferable on Form 4
to FFL individual or dealer.

ORIGINAL WWII BRITISH STEN MK II & MK V COMPLETE PARTS SET



Mk II \$150 Mk V..... \$195
It comes with T-stock. If you want a Loop stock, it is \$15 extra.

ORIGINAL U.S. G.I. 1928A1 PARTS SET

Complete with lower trigger housing group, buttstock, smooth barrel & cutts compensator, stick mag., no drum.



\$350.00

Original WWII G.I. issue
50-rd. Drum
Exc. plus cond.
\$200.00

With Lyman sight & finned barrel
\$125.00 additional.
Original actuators, new-in-wrap.
exc. cond. **\$85.00**
Bolt complete with actuator
..... **\$125.00**

COMPLETE 1919A4 .308 CONVERSION SET

1. New unissued .308 IMI barrel.
2. Enlarged belt holding paw.
3. Front & rear cartridge guides.
4. Right rear cartridge stop.
5. .308 booster cap, muzzle bearing.
6. .308 bolt stripped.

\$350.00

Will modify your 1919A4 Top Cover
to use .308 links. **\$ 65.00**

Complete Top Cover modified to use
.308 links. **\$150.00**

These still function in 8 mm & .30-06.

ORIGINAL WWII **MG 34 ACCESSORIES**

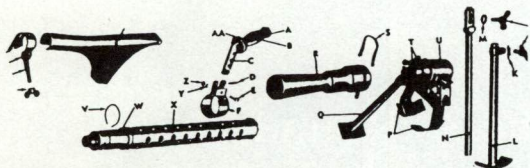
- .308 barrel \$250
- .308 feed tray \$150
- .308 feed slide assembly. \$150
- .308 booster cone (hard chrome) \$ 50
- Flash hider soaking can. \$ 50
- Orig. transit chest \$100
- .308 conversion set \$575

COMPLETE MG34 **.308 CONVERSION KIT**

- .308 barrel & bolt comp.
- Set for pre-determined head space
- .308 only feed tray, new cond.
- .308 complete feed slide assembly
- .308 hard chromed reduced orifice
booster cone
- Installed, Test Fired, and Guaranteed.

\$650.00

COMPLETE 1919A6 CONVERSION KIT



1919A6 conversion buttstock,
.308 barrel, barrel jacket,
bipod, flashhider, carry
handle new condition.

\$350.00

With .30-06 Barrel

\$250.00

ORIGINAL WWII 1919A6

FLASHHIDER BOOSTER



\$75.00

Very Rare!!

ORIGINAL WWII MP44 MAGAZINES

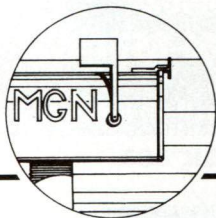


\$75.00 each
2 for \$125.00
5 for 250.00

LIMITED QUANTITIES

- MKB 42/MP43 \$150
- MP43 100
- MP44 (Phosphate) 100
- STG44 150
- MP45 200

All of these mags are ORIGINAL in excellent plus condition.



Incoming

A Strong Dose of Psychological Support

Just a note of thanks for the RKI ("Mystery Photo," June 1996). As the BAR is my favorite weapon, this was probably the only chance I had of getting one. I note that in my trademark fashion I did not merely miss the correct answer but went out of my way to write it off. Your generosity in this regard is greatly appreciated.

I like the humor in the RKI idea. While firearms involve serious issues, such as defense and freedom, for most of us they are also a hobby and should be fun. I have other hobbies that give similar certifications but take them seriously. "Master Model Railroader" comes to mind. (Give me a break.) Don't lose your sense of humor.

Your latest issue (July 1996) is

tremendous. I especially enjoyed your feature on the Stembridge movie guns. I imagine other full-auto enthusiasts like to spot and identify movie machine guns as I do (my favorite is "Dillinger" with Warren Oates and two BARs), so it was fun to see where they come from.

One of the nicest things about *MGN* for me is that it provides a strong dose of psychological support amid the progressive liberal bull that engulfs this city and state. From time to time I'll write and tell you some California horror stories. Many of them don't involve guns but other rights and freedoms. I think they are worth knowing about because they illustrate the extent of the bigger problem at one of its sources.

Again, I can't say enough for *MGN*. In the short time that I have subscribed, you've taken an excellent magazine and

made it better. I will continue to enjoy *MGN* as much for its content as for its inherent annoyance to my elected representatives.

Sincerely,
Eugene W.

Industry News: FNMI Wins M16A2 Contract

In a much watched procurement proceeding, Fabrique National Manufacturing Incorporated of Columbia, SC, was awarded the new M16A2 contract for the U.S. military. *MGN* gained access to the actual award document for Solicitation No. DAAE2096R0026 from Rock Island, dated 29 August 1996. Rifles are standard configuration 20" barrel full stock M16 A2 select fire in 5.56 mm Nato. The M4 carbine contract is still being filled by Colt Firearms.

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# 70	BM-59 w/5 mags., NIB	\$2250
#143	MAC-10 Powder Springs 9 mm, NIB.	\$1000
#178	MP5/94, reg. rec.	\$4000
#153A	Remington 870 AOW 14" NIB.	\$ 500
#159A	Fleming H&K 51, reg. rec.	\$3400
#182A	Fleming H&K 53, reg. rec.	\$3600
#199A	MP5-A3 3-lug, flap, plastic lower, like new . .	\$4700
#200A	MP5-A3 3-lug, flap, plastic lower, like new . .	\$4500
#202A	H&K 53-A2 flap, plastic lower, like new. . . .	\$3600
#203A	H&K 53-A3 flap, plastic lower, like new. . . .	\$3800
#206A	IMI Uzi pre-86	\$1400
#2-6	H&K 93/33 sear gun.	\$3000
#2-15	10-22 Ruger suppressed by Ciener	\$ 550
#2-30	Fleming H&K 33K like new.	\$3800
#2-32	Uzi bolt for carbine	\$ 750
#2-37	Colt M16A1 14" carbine	\$3400
#2-58	Uzi (IMI) pre-86	\$1200
#2-59	Automatic Weaponry WP-870 12 ga. AOW. . .	\$ 500
#2-60	Ciener suppressed ATD semi-auto .22 cal. . .	\$ 600
#2-61	Mossberg .20 ga. pump, AOW	\$ 400
#2-66	SWD M11, 9 mm, NIB	\$ 600
#2-29	SWD M11, 9 mm, used	\$ 500
#2-4	FAL G-1 .308 cal. pre-86	\$2950
#2-78	Ruger M77 7.62 x 39 cal. suppressed	\$ 700

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This new contract is a multiyear contract for the procurement of 88,500 M16A2 rifles at \$398.16 each, totalling \$35.2 million. The first year's delivery of 29,739 rifles is currently the only undated part of the contract.

New Hampshire Hummer

Just thought you might like to see how we spend our time in New Hampshire: a 1996 Hummer with an authentic .50 cal. or .30 cal. tripod and pintle. On it is a Browning 1919.

The tripod was provided by Stan Andrews, and I made a special chain

type quick mount to install/remove in less than 10 minutes. (There's a fine line between having people think you're crazy and having them know it!) The Hummer gets enough attention without an MG mount! Note my license plate: MCHGNS. Live free or die.

Rock M.

MGN Makes Me Feel Right At Home

I always feel like an outcast to the regular firearm buff crowd...but your publication makes me feel right at home.

You guys do great work, and all have great jobs. I have to say the best small piece for me is in your August issue where the gentlemen with the M16A1 is profoundly awoken. I also own the same firearm!

Keep up the good work and empty a mag for me!

Hugh C.
Harrisburg, PA

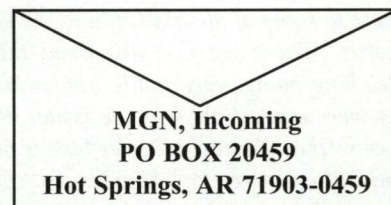
MGN Web Page

You have an excellent, very informative magazine for those interested in suppressed/full-auto weapons. I know it's helped me greatly in the selection of my suppressed/full-auto weapons and helped me avoid costly mistakes.

The second reason I am making my subscription is your web page. I can't say enough about it! It is what prompted me to subscribe *now* instead of in December. Your Web page helps get the questions, I have, answered in a hurry by people who know their stuff. Thank you.

Anthony N.

You may visit the Machine Gun News Web Site at <http://www.machine-gunnews.com>.



TRANSFERABLE MACHINE GUNS

HK MP5SD A3 (Fleming)	
.....	\$5200
AK47, 762, full stock, new	
.....	\$3000
Mini Uzi.....	\$3500
Uzi (full size, reg. bolt)....	\$1500
Valmet 78, .308 (Fleming, exc.).....	\$3350
9 mm Colt (reg. sear).....	\$3950
MAC 10/45 P.S.....	\$ 950
Colt M16 9 mm (reg. rec)	
.....	\$4400
HK53A3 sear, new, Vollmers.....	\$4100

AOW

.25 Penguns	\$ 250
410/.45 Penguns	\$ 325

SBS-SBR

Westernfield 20 ga. 15" w/pg.....	\$ 300
Remington 870 12 ga. full stock.....	\$ 400

DEALER SAMPLES

PPSh-41 w/1 drum	\$ 650
MG3 coming soon	POR
* AM180	\$2000
USAS-12 Interord	\$1650
M14 Pauly Tech.....	\$ 275
Sten MKII	\$ 275
M11/9 mm.....	\$ 250
Maadi full stock, rate reducer	\$ 600
RPD reweld, needs refinish.....	\$ 600
AK47 Soviet 2nd model ..	\$ 750
M16 Sears reg. in 3 cal.	\$ 150
* MP28 II.....	\$1200
MP40.....	\$ 800
Sterling Mk IV	\$ 800

SUPPRESSED GUNS

PAWS Carbine 9 mm semi-auto	\$ 900
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DESTRUCTIVE DEVICES

Streetsweeper 7"	\$ 400
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* All samples are post except where noted.

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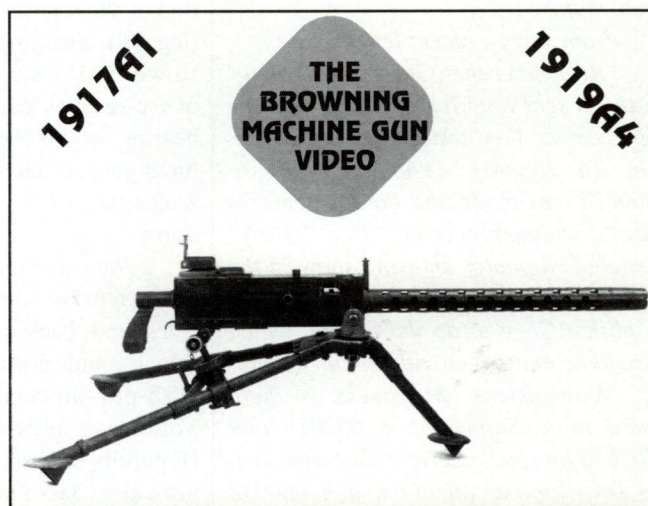
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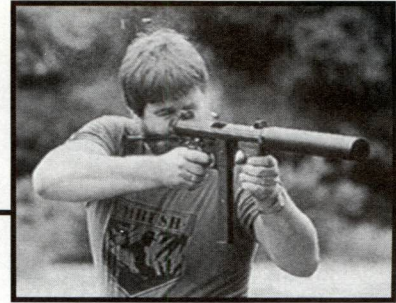
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TERMS: Please allow six weeks for delivery. All checks must clear before video is shipped. All sales final. Tapes with manufacturing defects will be replaced if returned within 30 days of shipping.

Photograph 1919A4 courtesy of Hayes Otoupalik and Bruce Canfield.

Raffica

by Dan Shea



"Power concedes nothing without a demand. It never did and it never will. Find out just what people will submit to, and you have found the exact amount of injustice and wrong which will be imposed upon them; and these will continue till they have resisted with either words or blows, or with both. The limits of tyrants are prescribed by the endurance of those whom they suppress."

—Frederick Douglas

Jerry Tarble, a well known Stoner historian and owner of Jay Tee's, did some research about the Stoner 66 semi-auto rifle after our last conversation in Raffica about it. Jerry has access to some of the old Cadillac Gage records. Where we last discussed this rifle, how many were made, and what they were made from was the issue. We do know that the steel receiver Stoner 66 semi-autos were too similar to the Stoner 63 machine gun receiver, and ATF disallowed the design for semi-auto status.

From Jerry's recent letter to me:

"Remember the 'Guns and Hunting' article I sent you? It said that the Stoner 66 receiver they tested was aluminum. On 26 January 1966 receiver s/n 000038 was made and the log remarks say "aluminum receiver." That "G&H" article had photos showing snow in the background, and the author had gone to Cadillac Gage to do the testing, which would be consistent with January there.

"Conclusions. My guess is there were three Stoner 66's: 002011 and 002012 on steel receivers that were sent to D.C. for classification, and 000038 with an aluminum receiver as a preproduction sample for advertising and publicity. According to the log, 002012 is still in D.C., and 002011 was returned to Cadillac Gage in 1970 and was destroyed on 8 August 1977. The aluminum receiver semi-auto, 000038, never left Cadillac Gage and was also destroyed on 8 August 1977. The destruction was witnessed by Joe Golec of Cadillac Gage, and E. Walter Longenberg, Special Agent ATF, Detroit office.

"The Stoner 66 was a Cadillac Gage project, and Great American Arms was supposed to be a distributor."

That should just about clear up any questions on the Stoner 66 project. If any more information on this series of historical guns should appear, please forward it to Raffica.

Questions:

I WANT TO BUY AN HK REGISTERED receiver MP5 as opposed to a sear gun because of, among other things, the ease and cost effectiveness of (legally) changing HK trigger groups. However, I'm worried about the quality of the receiver conversions. I'm always hearing of botched Class 2 manufactured guns, often times from other Class 2 manufacturers. A few important questions:

1. Were the registered receiver HKs converted by simply milling off the sides and back of the semi-auto lug (block) and drilling the hole for the push-pin lowers (as described by Vollmer—"milled and drilled")? Hopefully this is the case as I'd hope most any Class 2 would have been capable.

2. If HK made this "impossible," how complex was it? The more complex it was, the more selective I want to be as far as who converted it. And this leads me to...

3. "Who" did "how many" registered receivers? And lastly...

4. Do the registered receiver guns identify who converted them?

Anonymous

Of course the other Class 2 manufacturers will tell you about the botch

jobs by their competition. It's only human. We need to remember what things were like back in the month or so preceding the 1986 ban on further manufacture of machine guns for private ownership. Those who knew it was coming were frantically registering every tube, sear, and receiver they could find or manufacture. No exhaust pipe was safe from the stamping dies.

Many of the HK rifles that were converted to machine guns were done so without even milling out the front pin hole, and that is now forbidden. If it wasn't done back then, you can't do it now. This means that you have to watch what "registered receiver" means. If you want a swing down lower trigger group, be specific about that when you are shopping. In the years before 1986, many different people converted HK guns, and they were just learning about it. You have to be very specific about how the conversion was done.

Regarding the real "milled and drilled" HK registered receiver machine guns, what was done was the removal of the horseshoe-shaped block of metal that is welded into place over the trigger swing down pin hole. If too much metal is removed, there will be "play" there which might interfere with the reliability of the firearm. Remember that HK machine guns rely on the bolt carrier tripping the lever down on the sear catch for full-auto fire. If this is not done inside certain tolerances, the timing will be off or unreliable, so malfunctions may occur.

I have no records whatsoever that will tell me how many registered receivers were made by each manufacturer. I will ask all of the pertinent Class 2s if they feel like divulging that information, but to date they have not done so. I can tell you that three tractor-trailer loads of HK semi-autos went to Fleming Firearms to be converted to registered receiver machine guns about

30 days before the 19 May 1986 law was passed. There were at least 500 HK-91 rifles involved.

According to ATF regulations, a manufacturer is required to permanently affix his name to his receivers—even if he is “RE-manufacturing” the firearm, as would be the case here. Was it done? Not very often.

I AM RESTORING A 1961 UZI SMG and would welcome any tips on what materials and methods I should use. The gun is quite dirty and heavily greased with the odd patch of rust internally. What should I do for the rust patches? Is wire wool okay or will it affect the bluing? What should I treat the wooden stock with. Perhaps there is a book I should read?

Stuart

I am not sure that you can get the information that you need from a book; although most gunsmithing books will help a little. I suspect that your Uzi is one of the post-86 dealer samples that was imported by Springfield Armory in 1988-89. The original Uzi finish was parkerizing with a baked-on enamel

over it, and on these guns it was quite worn. When you start scrubbing the rust off, the finish is also going to be removed. Probably the best thing to do is to sandblast the finish off of the entire receiver and other exposed frame parts such as the pistol grip and top cover. This is done lightly, without removing the metal, of course. All parts should have been removed first. If you have no experience at this, I suggest that you try it on other metal first, or ask an experienced friend to help. Once the metal is stripped, it should be professionally parkerized, or you can try a “park” kit that you see advertised here in MGN sometimes. They have a pretty good reputation. Final finish would be to apply a bake-on lacquer or enamel that is specific to gunsmithing, available from Brownells (515-623-5401). Yes, this is normally done in a household oven. Make sure your wife is on vacation so she doesn’t smell it...

On the wooden stock, traditional methods usually include boiling the wood...but that can lead to other problems. One of the methods that is currently being used by many gunsmiths is

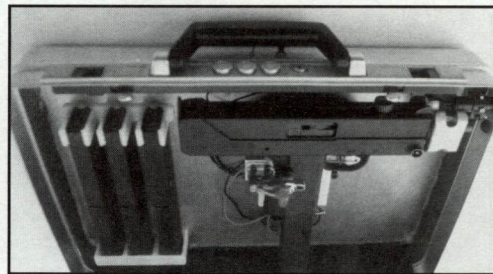
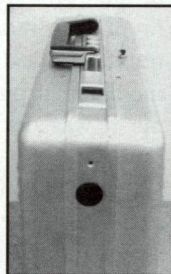
“Easy-Off oven cleaner.” Yes, really. In a ventilated area, spray a good coat on the wood, let it soak. You should use rubber gloves because this is very caustic. Three times, an hour or so apart, wiped off between each time. This will raise and dry the oil in the stock, and raise any dents in the wood. You will then have to sand the stock to a nice surface, stain to your preference and oil it down to soak. Stock oil can be obtained from Brownells or any other gunsmith supply.

You will have other concerns on refinishing this Uzi. The ones that were imported had seen a LOT of use. Examine all the interior parts for stress, springs for tension, etc., and replace as needed. Good luck with your project!

I AM SEEKING YOUR ASSISTANCE in identifying an SMG mag loader that has been in my possession for sometime now. I recently acquired a Swedish K SMG for my collection and went looking through my goody box for some accessories and came upon the loader. Unfortunately, it does not fit the Swedish K mags. I tried the following

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The Dignitary Protection Briefcase offers the security professional the opportunity to provide his client the highest level of protection, without an obvious display of force. Using the Laser-sighted, solenoid-operated, electronically firing briefcase and your S.W.D. brand M11/nine SMG, the security professional has immediate access to the firepower of the weapon. The system is shock-mounted and “SAFE” until the mini-toggle switch, located near the handle, is “flipped” to the rear, which activates the laser and arms the electronic circuits inside the briefcase. The M11/nine may then be fired by pressing down on the firing button. Depending upon the selector mode chosen, one-shot or full-auto firing is achieved. By toggling the mini-switch forward, the weapon is once again in the safe mode. The fired brass remains inside the unit. Integral mounts for three extra 32-round magazines are standard.

The Dignitary Protection Briefcase: \$2500.00 Suggested Retail (Dealers call for pricing.)

(An NFA registered silenced version is available at extra cost.)

(A total of only 21 dignitary protection cases will be manufactured, 15 of which will be available for general sales! A timely order will ensure delivery.)

NFA note: The Dignitary Protection Briefcase, when used with an NFA registered machine gun, is little more than a holster and requires no further registration. If used with semi-automatic M11/nine pistol, the briefcase must be registered as an NFA weapon. A copy of BATF Form 1, “Application to Register a Firearm,” is enclosed with all cases sold. It is the responsibility of the “end-user” to properly use and/or register the briefcase, as their application dictates. All NFA rules apply! D.A.W. expressly denies any liability for misuse of this product by the owner/operator!

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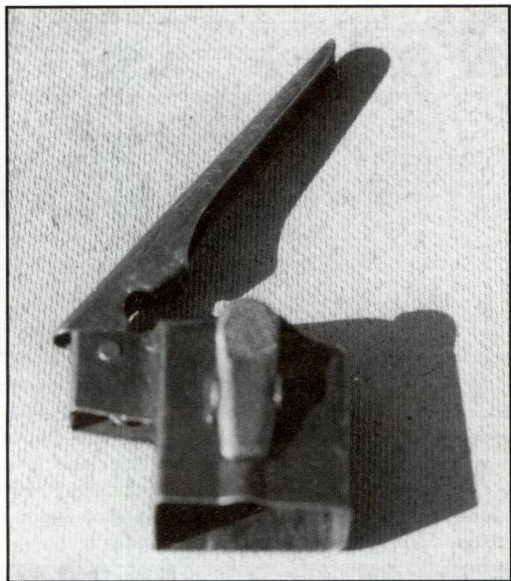
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mags without success: M3 Grease Gun, Madsen M50, Thompson, Sten, MAT-49, MAC-10 & 11, S&W 76, etc. Perhaps, you as an RKI, or someone, can come up with the real ID for this loader. It is made of thin metal and is somewhat crude, without any markings. Really would appreciate some assistance. MGN is a real super magazine and really informative. Having had the pleasure of meeting Reed Knight and having the opportunity to see his collection, I really appreciated the interview you did with him several issues back. Just prior to my visit, I also had the chance to meet Eugene Stoner at the UDT/SEAL Museum. He was kind enough to allow me to have a picture taken with him. Meeting these two giants of the *Gun World* was quite a thrill. By the way, I have known Carlos Hathcock for over ten years, and he has been kind enough to come to Rhode Island to conduct sniper training on three occasions. Great man and a real living legend. We all hope that he gets the Medal of Honor, as he well deserves it.

Chris M.



You seem to be keeping pretty good company, Chris. I decided to put your photo in here as a kind of "Mini-mystery photo" because I was unable to specifically identify it. Rafficarians, please send in your info on this mag loader! While I was in Florida last May, MGN photog Jim Bonis and I visited that museum. We have a photographic essay done on it, so watch for the upcoming

UDT/SEAL museum visit in MGN. Just a note on Carlos and the Medal of Honor. There are a lot of people who think he should have been awarded the MOH, but the military had not deemed it to be. The word is that DOD has just started the approval process for the Gunny to receive the award. Let's keep our fingers crossed, and call our Congressmen at the appropriate moment!

AFTER READING THE LETTER from the M16 owner with the rotating hammer pin, and your response, I immediately checked my M16 and AR-15 hammer pins (as I'm sure many other readers did too) and noticed that they too rotated with the hammer. This prompted me to ask my friends with M16s if their pins rotated, and it turns out they do. I next went to three gun stores in town where the salesmen were kind enough to allow me to check all their AR-15s, same story. I then called Colt customer service and spoke with a gentleman who had dealt with this question in the past from a concerned AR-15

owner. The customer service representative said that he had taken the question to engineering and was told that it was a "design feature" of the M16/AR-15, and that tests involving many thousands of rounds showed no enlargement of the hammer pin hole. He assured me it was not a problem. Upon reviewing my M16 maintenance and repair manual, I came across a diagram clearly showing the removal of the pin under hand pressure using the firing pin as a tool. One can only assume that the loose fit is a design feature, enabling the pin to be easily removed under field conditions. Whether it is a good design feature is questionable. After all, what does the government care if

they have to dispose of a few receivers with enlarged holes occurring after a few thousand rounds?

After checking the tension of the hammer J-spring, which serves as a detent against potential walking of the pin out of the receiver, I concluded that the tension was excessive, and I slightly deepened the annular channel machined in the pin, using a small file. This allow-

ed the hammer to rotate freely on the pin. I next placed the pin in a brass jawed vice and flared one end by tapping it with a hammer, then sanding it with emery paper until it fit in the receiver hole with enough tension to keep the pin from rotating in the receiver but not being so grossly enlarged as to enlarge the receiver hole and defeat the purpose of the whole procedure. The obvious concern here is will the pin fail as a result of the deepening of the detent spring channel? Potential pin failure seems like a minor problem compared to receiver hole enlargement, unless pin failure resulted in the hammer flying loose in the receiver and causing damage. Have you had any experience with hammer pin breakage while shooting an M16?

I probably should have listened to Colt and forgotten about it, but I am an inveterate tinkerer and could not help myself....

Further tinkering resulted in the discovery of a simpler solution: remove the J-pin in the hammer that serves as the detent. Take a new J-pin and bend the straight end slightly towards the hook. Install this modified J-pin in its channel by tapping it in place with a hammer. What we've accomplished is altering the configuration of the J-pin just enough to relieve the pressure on the hammer pin and allow it to rotate freely but still allow the J-pin to function as a detent. If desired, the hammer pin ends can be slightly enlarged as previously described to make the pin fit more snugly in the receiver. Test firing of my gun shows no movement of the hammer pin relative to the receiver.

Karl M.

Karl, you have a classic case of "tinkeritis." I do not think that this was a problem that needed solving, but there are enough RKIs out there who consider it a problem that I thought I should pass on your well thought-out and executed solution to this problem. Thank you for sending it in.

I HAVE HAD AN INTEREST IN machine guns and military style semiautos for quite some time. Unfortunately, I live in Massachusetts (home of Teddy Kennedy and his antigun gang) and have been told by many law enforcement agencies that a Class 3

license is "not necessary" and almost impossible to get in this state. Thus I have enjoyed shooting some "full-auto firearms alternatives." One of these alternatives is a Para Ordinance Model 85 in full auto. I have run into a small problem, however. I have run out of the special caliber paint balls and the company, based out of Canada, has informed me that the machine that makes the paint balls is broken and that a private contractor is looking into fixing the machine. A year and a half after calling last, I called again and was told the machine is still broken.

I would like to know if there is anyone who distributes the paint balls and if I would be breaking any laws if I used plastic balls in the Model 85? If plastic balls are legal, where could I have them made? I would also like to know if Recon Ordnance is making any new full-auto BB guns.

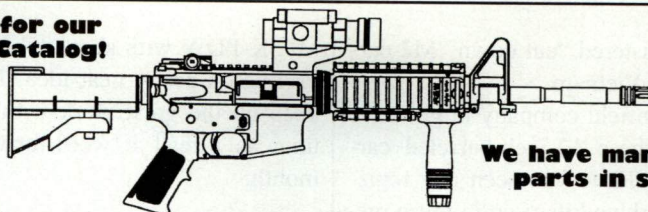
Brian Z.

I think you will find that this paintball gun, converted to solid plastic projectiles, may meet the definition of a "firearm" because it is firing a projectile using the energy of an explosive. The Model 85 used fixed ammunition, not CO2 like most paintball guns. Since it is fully automatic, it would probably be skirting the machine gun laws, also. I think before you go modifying this ammunition, you should check with Technology Branch ATF.

Recon Ordnance (414-922-1515) is still manufacturing their gallery gun BB machine guns. I understand these have been quite a hit, and production is backed up a little bit in relation to orders, but they are shipping.

HAVE YOU EVER SEEN Universal .30 caliber carbine "Enforcer" pistols converted to selective fire with registered M2 carbine parts sets? The Universal .30 caliber carbines are not identical copies of the U.S.G.I. M1 carbines. I don't know if M2 carbine parts can be used in the Universal with or without modifications. I assume M2 carbine pistols work just as reliably as regular M2 carbines. It seems these pistols always have 12-inch barrels which allows sufficient "port pressure" for reliable semi-auto and full-auto operation. One of the first full-auto weapons I saw at gun shows in the 1970s was an

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Barrel, Colt A-2, 1 in 7	\$175.00
Barrel, 20" H-bar 1 in 9, chromed, new G.I.	\$150.00
Barrel 16" C.A.R. 1 in 9, chromed	\$150.00
Barrel, 10 1/2" 1 in 9, new	\$185.00
Barrel extension, new	\$20.00
Buttstock A-2 (with spacer)	\$45.00
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Carrier assembly, AR-15 Colt	\$100.00
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Charging handle	\$20.00
Handguards, A-2 (round)	\$25.00
Lower Kit (every part to complete YOUR lower receiver)	\$60.00
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Barrel, chrome-lined with bayonet lug, gas piston, new G.I. (Vietnam Era)	\$140.00
Bolt, round or flat, complete	\$50.00
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as new	\$110.00
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Push safety, "EW," NS, EPB	\$28.00
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Slide M2, G.I.	\$65.00
Slide M2, unmachined casting	\$6.00
Trigger housing M2, G.I.	\$75.00

M60

Assault pack, 100 rd.	\$22.00
Bipod, new	\$90.00
Bolt, stripped, new	\$45.00
Links, new (per box of 20)	\$1.50
Op Rod, new A-1	\$55.00
Sear, new	\$12.00
Forearm M60 E-3 (heat shield) new	\$75.00

M14

Bolt, new, complete	\$55.00
Front sight, N.M.	\$12.00
Gas cylinder, new	\$25.00
Front band	\$10.00
Hammer, H&R	\$25.00
Hand guard, walnut, new	\$35.00
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.30 B.M.G.

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amnesty registered "cut down" M2 carbine used in Vietnam.

The Plainfield company might have also made these 12-inch-barreled carbine pistols. Have you seen any registered M2 carbine kits used in these pistols?

J. R.

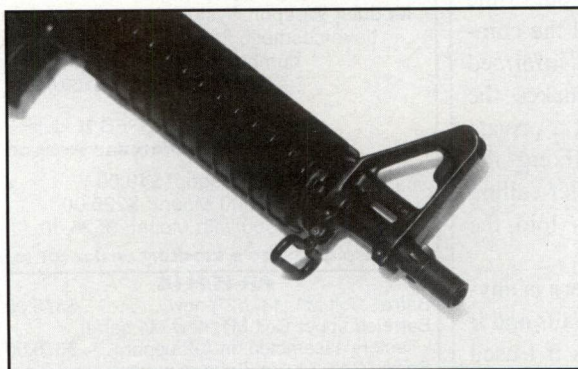
I have seen several of these guns as registered machine guns. You are correct that the Universal is totally different inside than the standard M2 carbine. The parts are not interchangeable. I am sure that someone has altered the registered M2 kit to fit in a Universal at some point, but I have never examined one to see what was done. Universal did make a few M2 pistols back in the mid-1960s; I have seen one of the two prototypes that were made. That one had been given to the 1966 version of ATF for examination, then disappeared from the agency—never returned to the factory. It was registered during the Amnesty in 1968, and the owner who had it had obtained a letter from Universal attesting to that odd history. Just a little historical sidebar for you amnesty story buffs.

There were plenty of "whipits" made during the Vietnam war. U.S. soldiers didn't think very highly of the M2 carbine, and it was issued to the Army of Republic Vietnam soldiers mainly because of their small stature. It was not uncommon for a U.S. GI to cut the barrel down to 12 inches, lop the stock off behind the pistol grip section, and make a long leg holster for it. This made a pretty handy .30 caliber last ditch bullet hose for patrols.

RECENTLY I FAXED A LETTER to your attention regarding barrel shortening on my Colt CAR15 9 mm firearm. I just had some photos made of it for insurance purposes and thought you might appreciate a picture of what it looks like. As you can see, the three-lug adapter installed by Dr. Phil Dater of Gemini Technologies is mounted correctly with one lug at the 12 o'clock position. Also, the seam where it meets the underlying barrel is practically invisible. Finally, the parkerizing of the adapter is a near match to the Colt barrel. By having the barrel lugged instead of threaded I am now able to swap suppressors from the Colt to my HK

MP5K-PDW with absolutely no hassle. Phil had a pretty neat idea! In closing, keep up the great work with your column as I read it word-for-word each month.

Bob B.



One of the problems with the Colt 9 mm submachine gun is that the barrel threading is very fine. Installing suppressors can damage the threading. Phil's 3-lug adapter is the best answer for those of us who want to suppress this firearm. The one additional problem on this is location of the bayonet lug. There has to be adequate clearance for the suppressor base to turn behind the lugs without coming up against the lug. (Gemini Technologies — 208-939-7222)

WHAT DO YOU KNOW ABOUT Israel's new light machine gun, the "Negev?"

Yuval

Not near enough as I want to. I have been chasing this gun for years. The exterior appearance is somewhat like a Galil ARM—the model with the bipod. Caliber is 5.56 NATO, using SS109 ammunition (there is a barrel available for standard M193 ammo). Like the M249 in U.S. service, it can use either belts or magazines and has a quick-change barrel system. Firing is locked rotating bolt from the open-bolt position. We hope to take one out for a trial in an upcoming MGN but have not been able to arrange it, yet. Anyone who has a connection to IMI or any end users that want an MGN test, let me know, care of MGN....

IN YOUR EXCELLENT ARTICLE on the Stembridge Gun Rental Co., regarding the photo of the 7.62 x 39 Valmet with the special stock and bipod, it is my recollection that the actor who

played the enemy paratrooper who landed in the school yard at the opening of the movie is Fred Rexler, a former special forces soldier and a long-time machine gun dealer in the Houston, Texas area. Fred also played the tank commander who drove his tank into the gas station where one of his crew tried to grab a girl with a picnic basket to which Fred said, "Forget the broad, get the food!"

Ed R.

"Forget the broad, get the food"? I'm not sure of the priorities he has as a tank commander or Class 3 dealer. He should have

been scrounging ammo and guns out of the store inside.... Thanks for cluing us in on this. I am sure the readers would like to hear more about making this movie. It was definitely a "gun culture" flick, as John Ross would say.

REGARDING THE LETTER IN the recent issue of MGN from Ray J. about slowing the cyclic rate on his M16, we have in stock, original "hydraulic" buffers from the Colt LMG. They install just like a regular buffer and slow the cyclic rate to around 650 rpm depending on the ammo. Two round bursts are easy with the new buffer. This is a much easier solution to the problem than lengthening the buffer tube, making the bolt heavier, or going to an open-bolt configuration.

Dudley Calfee

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We are always happy to inform the readers of new or newly available products, especially if they address a problem that our readers are encountering. Consider it passed on....

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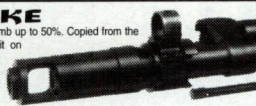
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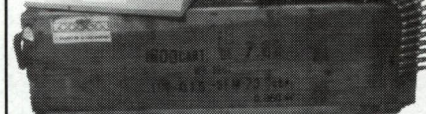
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7.62 NATO AM-0506-C1600	French Gov't Arsenals	1960s	Brass	Lead Core FMJ	50rds on M60 Links	1600 rds	100 lbs	No	No	\$319.90 (\$20/rd)	34.00	36.00	39.50	(7)
7.62x54r LIGHT BALL AM-0510-C320	German Military Arsenals	1980s	Steel	Steel Core FMJ	20rds	320rds Plastic Sleeve	20 lbs	No	No	\$44.50 (\$14/rd)	5.75	9.00	12.00	(85 72)
30.06 Steel Core G.I. BLACK TIP AM-0485-C250	F.N. Belgium	1960s	Brass	Steel Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	\$87.50 (\$35/rd)	5.75	9.00	12.00	(FN 67)
30.06 Ball AM-0447-C250	F.N. Belgium	1960s	Brass	Lead Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	\$72.50 (\$29/rd)	5.75	9.00	12.00	(FN 67)
30.06 Blank ON LINKS BELTS AM-0480-C250	F.N. Belgium	1970s & 60s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	No	\$12.50 (\$08/rd)	5.00	8.00	10.00	(FN 65)
30.06 Blank ON LINKS BELTS AM-0482-C250	I.M.I. Israel	1990s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	YES	\$34.50 (\$138/rd)	5.00	8.00	10.00	(IMI 30 91)
30.06 Blank, Star Crimp Bulleted AM-0482-C400	I.M.I. Israel	1990s	Brass	N.A.	20rds	400 rds .50 Cal Can	35 lbs	YES	YES	\$49.00 (\$125/rd)	7.50	13.00	18.75	(IMI 30 91)
7.65 Argentine 7.65x54 AM-0326-C1500	Argentine Military Arsenals	1980s	Brass	N.A.	15rds	1500 rds	90 lbs	YES	No	\$172.50 (\$115/rd)	33.00	35.00	38.00	(7.65 SF 81)

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Headspace and Timing

Part 1 — Headspace

A Tutorial

by **GARY E. REISENWITZ**

Suppose you built an M16, rebarreled your M14, or changed the caliber of your Browning Machine Gun (BMG). One question seems to leap to many people's minds. Is the headspace OK? Should you care? I can't think of a term that seems to see more use, or misuse than this one. I think it is better to be at least reasonably informed, than to suffer the possible side effects of any ignorance. So in this article, I'll try to shed some light on the term "headspace" and show how it applies to all weapons in general, and certain automatic weapons in particular.

For the purpose of this article, I'm going to generalize cartridges into two categories: open bolt submachine gun cartridges (9 mm, .45 ACP, etc.), and closed bolt, locked breech, rifle cartridges (5.56 mm, 7.62 NATO, 7.62 x 39 mm, etc.). Most machine guns and other self-loading weapons use ammunition that falls into one of these two categories. I'm also going to restrict my discussion to cartridges of the rimless variety (in both straight-walled and bottlenecked designs.)

I'm not aware of many rimmed or belted, cased cartridges that are frequently found in automatic weapons. (Yes, I am aware of .303 BREN guns and 7.62 x 54R Maxims, DP and other Soviet-designed, general purpose, medium machine guns. I am also aware of how relatively infrequently these are

encountered on the numerous firing lines about the country.)

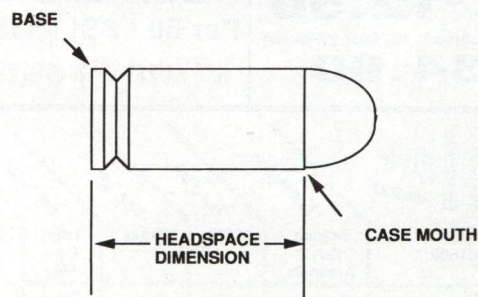
These rimless varieties will cover the vast majority of the actual automatic weapons in use within this country.

Let's take a look at headspace first. Headspace is normally thought of as the longitudinal free play that a cartridge has when it is fully chambered in the gun and the bolt is fully closed (locked).

There really is no such thing as a single dimension that would be the "correct" headspace for a weapon. The "correct" headspace is a measurement expressed in terms of a range of acceptable values. For example, the acceptable headspace dimension for .308 Winchester rifle barrel chambers is

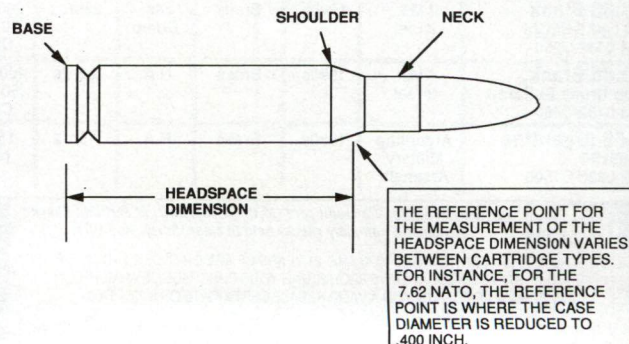
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generally taken to be from 1.630 inches to 1.640 inches. This does not mean that the chambers are actually cut that deep, it just means that the weapon, when assembled, should have such a distance from the bolt face to the reference point of the chamber shoulder. This standard is set by the Sporting Arms and Ammunition Manufacturers' Institute. The SAAMI corresponding headspace dimension for the .308 Winchester cartridge casing is 1.627—1.634 inches.

Therefore, a cartridge manufactured in the middle of the acceptable range will be approximately at the low end of the acceptable chamber depth. If you happen to encounter ammunition that is manufactured at the upper end of the acceptable range (1.634 inches) and have a chamber cut to a depth of 1.630 inches, the ammunition may not chamber.

Fortunately, most .308 ammunition is manufactured to have a headspace dimension of very close to 1.630 inches, and most chambers are cut to permit a depth of about 1.635 inches, allowing .005 inch clearance. In such a combination, you may then say that the headspace for that combination is .005 inches. With a cartridge chambered, and the bolt locked, the cartridge should have about .005 inches, or less, of free play

There are three components that determine the actual headspace of a weapon. These are the chamber of the barrel, the bolt, and the receiver. You may add a fourth, the cartridge, but most cartridges are considered to be the standards about which the other components are to be fitted. Most books list headspace dimensions in terms of a function of cartridge casing length, with different casing types having different reference points for these measurements. The drawings on the opposite page show the different types of cartridges and which dimensions are measured to determine the optimal headspace dimensions.

You'll notice that the actual headspace dimensions for many cartridges are quite large compared to the actual free play you might expect to encounter. This is because it is mechanically difficult to measure cartridge longitudinal end play, but it is relatively easy (with proper gages) to measure the actual ranges of the chamber dimensions.

For this reason, the headspace dimensions are usually based on the chamber length, while the term "headspace" refers to the longitudinal play that would result from the chamber/cartridge/bolt fit. The actual reference point upon which these measurements

are based varies from cartridge to cartridge. If you are measuring rimless bottlenecked rifle cartridges, the distance is usually measured from the rear-most part of the case head to a point near the longitudinal midpoint of

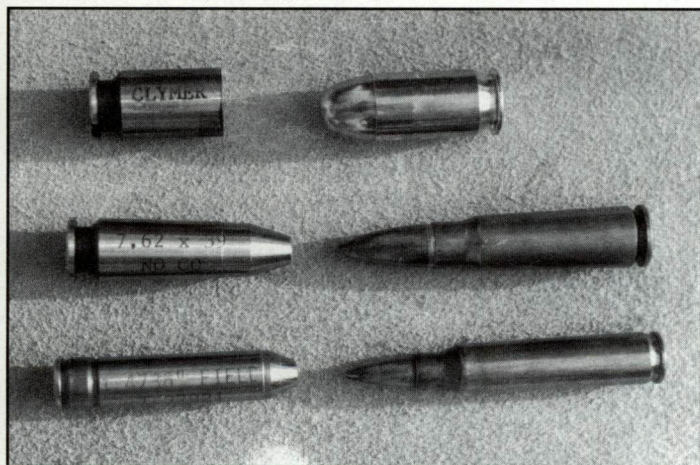
gages are so important. For rimless straight-wall pistol type casings, the dimension is from the rearmost part of the casing head to the mouth of the cartridge casing. These are said to headspace on the case mouth. Gages are also useful for measuring this dimension. Once again, the true dimension you are looking for only applies to the distance from the bolt face to the chamber reference point, when the bolt is fully closed. For rimmed cartridges, the headspace is often taken as a measurement of the thickness of the rim. For belted cartridges, the dimension is usually taken to be the distance from the case head to the forward edge of the belt.

Some people confuse the headspace dimension with the cartridge casing overall length and assembled cartridge overall length. With rimless straight-walled pistol type cartridges (9 mm, .45 ACP, etc.), the overall cartridge casing length and the headspace dimensions are supposed to be close to a match. For bottlenecked cartridges, they should never match.

The assembled overall cartridge length is the total length of the cartridge from the case head base to the bullet tip, regardless of the cartridge type. For bottlenecked rimless cartridges, the headspace length will always be less than the cartridge casing length, which will also be less than the assembled overall cartridge length.

If you reload cartridges, you need to pay attention to all three of these dimensions. The headspace dimension is set by the resizing die of a reloading set. The overall cartridge casing length is set by trimming the cartridge to a proper length AFTER resizing. The assembled overall cartridge length is set by adjusting bullet seating depth. If your cartridge casings are too long, the cartridges may not chamber due to interference between the case mouth and the throat of the chamber. In some cases, the interference may be sufficient to create an overpressure condition, that may result in weapon destruction. The overall length is important to reliable feeding. Being either too long or too short can cause feeding problems.

Just try feeding reloads through a BMG if your bullets are seated about



Note the similarity in the shape of the headspace gages and the cartridges they relate to. From top to bottom are the gage and cartridge for the .45 ACP, 7.62 x 39 mm Russian, and .223 Remington.

from the bolt face toward the muzzle. In practice, spring-loaded ejectors, extractors, fouling and dust may often insure that there is no perceptible movement of the cartridge in the chamber.

the shoulder of the cartridge casing or chamber wall. These are said to headspace on the case shoulder. You can't really measure this with calipers or micrometers, which is why headspace

1/16 inch too deep! Hope you're patient. Likewise, having the assembled overall length in excess of specifications can result in the cartridges not fitting into the magazines, not feeding properly, or in the case of your BMG, the cartridges may be "crunched" during feeding, resulting in radially bulged casings that will not chamber.

You can change the headspace dimension by changing barrels, bolts, receivers or cartridges. Although the cartridge is supposed to be the one constant in the equation, I have found that different lots of surplus ammo can have considerable variations in their case dimensions. I have some Syrian .308 military ball ammo that will not chamber in any weapon with a minimum tolerable headspace measurement.

Now that you know what headspace is, I suppose it would be nice to know how to measure it. Headspace is usually measured by gages that resemble cartridge casings (somewhat). There are usually three different sizes for any given caliber. These are GO, NO-GO, and FIELD. The GO gage represents the minimum acceptable chamber dimension that should still permit the safe chambering of ammunition made to SAAMI specifications. The NO-GO gage is longer, and usually means that if it freely chambers, the gun has a chamber depth that is beyond the optimal range but is still safe to shoot. The FIELD gage is the reject gage.

Any weapon that will freely chamber a FIELD gage is out of spec and should not be shot until repaired. Repair may be as simple as swapping out a bolt or barrel.

Actual measuring is done by inserting the gage into the chamber of the weapon and SLOWLY closing the bolt to see if the bolt will fully close or lock. If resistance is felt, DO NOT FORCE THE BOLT CLOSED. There are a few things you can do to make it easier and prevent you from getting a false reading. One is to remove any spring-loaded ejectors that protrude from the bolt face. These will interfere with the gage, making you think that you are having difficulty closing the bolt due to gage interference with the chamber, when you are actually just compressing the ejector spring. You may wish to re-

move the extractor for the same reason. If you force a tight fitting gage into the gun, and the bolt locks, you may NEVER get the gage out without destroying the gun. An excellent example of this is with the M16. If you drop a tight fitting gage into the chamber of an M16, pull the charging handle back and let it snap home to lock the breech, you may never get the bolt open again. It can happen folks. Do not allow the recoil spring of any self-loading or fully-automatic weapon to drive a bolt home with a headspace gage in the chamber. Always work the bolt, slowly, and by hand, to check for the ease with which the bolt may be closed.

With open bolt submachine guns, you need to be careful about one more thing. Many of these guns have barrels that can be easily removed. This ease of removal also means that they can be loose in the gun. If the barrel is loose, it may have an excessive fore-aft play that will make it seem that it has excessive headspace. Make sure that the barrel is fully screwed in, or that the locking collar is snugged up before attempting to measure the headspace or attempting to fire the weapon. I have occasionally seen people experience misfires with their "ultra reliable" open bolt gun, when they simply neglected to snug their barrel up.

There are exceptions to these dimensions, and they apply primarily to military weapons. The military maximum allowable headspace dimension for both the M16 and M14 are considerably greater than the commercial FIELD gages. So if you have an M14 or an M16 and it chambers a commercial FIELD gage, you may still have a safe weapon. It should definitely be checked with a MIL-SPEC gage to insure it is safe. If it will chamber a commercial GO gage, though, it should be OK on the low end dimension.

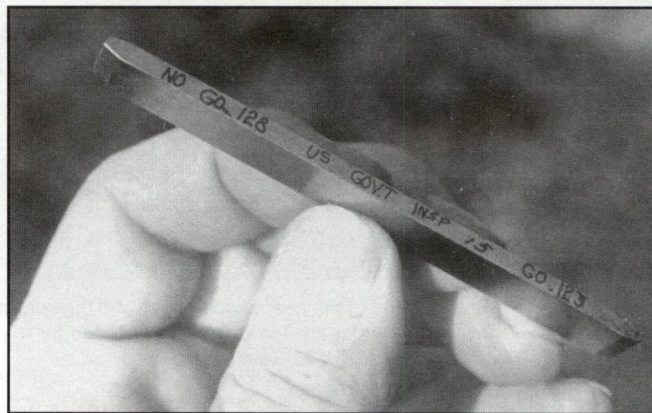
Match rifle builders have special dimensions they like to use to optimize performance with particular types of rifles and ammunition combinations. Headspace gage sets in .001 inch increments, as well as adjustable micrometer type gages are available to meet their special needs. Match-grade sniper rifles are usually built with tighter chambers than battle rifles.

If you plan on buying or building lots of weapons of a particular caliber(s), you may wish to invest in some headspace gages. I'd advise getting a set of three for each caliber, insuring that you have the MIL-SPEC reject gage for the longest gage, and using commercial GO and NO-GO gages for the middle two.

Ideal headspace would be indicated by the free chambering of a GO gage and the inability to chamber the NO-GO gage.

The Browning machine guns, both in .30 and .50 caliber use headspace gages that in no way resemble the cartridges they use. The gages for the Brownings resemble thick feeler gages, and are used to measure the distance between the rearmost part of the barrel, and the face of the bolt.

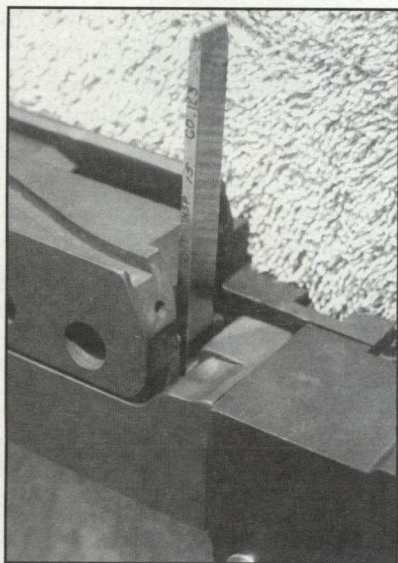
Measurement is done by attempting to pass the gage between the bolt face and the barrel breech, when the weapon is fully assembled and the bolt is in the forward and locked position. There are two ends to the Browning headspace gage, and each is marked with its dimension and either "GO" or "NO GO." These gages measure a distance that is



This is the headspace gage for the .30 cal. BMG. The gage for the .50 cal. is just scaled up in size. Note it is completely different from commercial firearm headspace gages that are designed to measure headspace based on chamber depth. The BMG headspace is a measurement based on barrel seating depth.

related to chamber depth only due to the tight manufacturing tolerances imposed upon the manufacturers of the barrels. The tolerances for chamber depth for Browning machine guns are kept very tight, so measuring the actual chamber depth is deemed unnecessary. Unfortunately, not every barrel maker adheres to this standard.

A standard commercial headspace gage can still be used to set the headspace on the Browning machine guns. To do so, merely chamber the headspace gage like a cartridge. Then, with the bolt in the forward and locked position, insure that the barrel will screw into the gun, bottoming out on a commercial GO gage. That will give you a starting point. With the



The headspace gage shown here is the type used in the .30 caliber series of Browning Machine Guns. It is shown here inserted between the bolt face and the breech end of the barrel in a cutaway gun. The BMG is unusual in that it uses this dimension for its headspace measurement. The beauty of this design is that the dimension is independent of the caliber of the gun. Whether the gun has been converted to 8 mm Mauser, 7.62 mm NATO, or any other caliber, the headspace dimension remains the same at .123 inch (GO) to .128 inch (NO-GO). Unfortunately, this design also requires that the barrel chamber be cut to the proper depth and held to extremely close tolerances. If the barrel chamber depth is out of spec., the standard BMG headspace gage is useless. It is possible to use a standard commercial headspace gage in a BMG, but it is much more difficult to install. There are rimless gages made for military use that can be almost as easily used.

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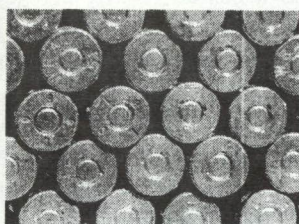
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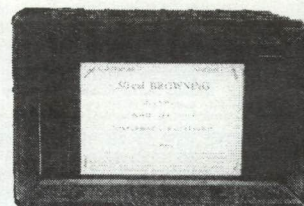
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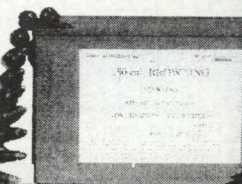
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Browning, it is best to then try to fire the weapon and observe signs of either sluggish operation (headspace may be too tight) or impending case head separation (headspace is too loose). You can usually spot signs of impending case head separation by a bright radial band, approximately 1/10 inch in width, around the cartridge casing. You can then take a metal probe with a bent tip and insert it into the cartridge casing to feel the inside of the casing. You may feel a groove on the inside of the casing that corresponds to the bright band on the outside. This is the telltale sign of impending case head separation.

So you now know what headspace is and how to measure it, but you may still have some doubt as to why it is important. The headspace dimension is important for two reasons.

1. Functional reliability
2. Safety

If you have a chamber that is too short (could be due to an out-of-spec bolt, barrel or receiver), you may not be able to fully chamber ammunition. The least aggravating thing that will happen to a weapon with inadequate headspace is that it simply will not shoot. Many weapons have safety features built into them that prevent the striker, hammer or firing pin from contacting the primer of a partially chambered cartridge, to prevent its discharge if it is not fully chambered and the bolt fully locked.

Should a centerfire rifle cartridge, capable of generating some 50,000 psi of chamber pressure, go off without the bolt properly locked, the gun will probably explode at the breech and the unlocked bolt will probably be thrown back with considerable force. It could easily kill you. At the very least you would likely be severely wounded.

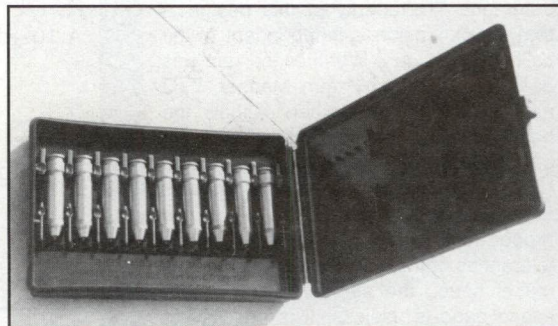
So you definitely want to insure that the chamber is long enough to easily chamber the ammunition. This is especially important with automatic weapons because everything is happening so fast. With a bolt-action rifle, you have to manually chamber each shot. You will know if you can't get a

round chambered, and you have a bolt handle to give yourself significant leverage to chamber a tight round. At 600 rounds a minute, you'll have no idea you're having problems until you find your view of the target partially obliterated by the parts of the receiver protruding from between your eyes. Military rifles typically have looser chambers for this very reason.

Some precision and accuracy is sacrificed for reliability and safety.

If you have an open bolt weapon and you have insufficient headspace, the gun will usually fire, but the casings will usually bulge excessively and may occasionally rupture. With low-powered pistol cartridges, the casing ruptures may be more of a nuisance than a hazard, but bystanders in the direction of the ejection port could be injured by brass fragments and powder burns. I've had Uzis blow casings apart in the ejection port with little more fanfare than a lot of smoke.

Excessive headspace has its own set of problems. With an open bolt gun, you'll usually get misfires. The cartridge seats so deep that the fixed firing pin of the bolt face cannot reach it for proper ignition. If ignition does occur, there is little likelihood of any danger. On locked breech weapons, the usual result of excessive headspace is case-head separation. In this event, the case itself gets torn in half with a radial fracture near the midpoint of the case. In some cases there may be excessive gas leakage and hot gasses blown back into the shooter's face. This seldom occurs. The usual occurrence is that the gun fails to chamber the following cartridge because the front of the previous car-



When greater accuracy in measuring headspace is desired, Brownells, Inc. offers gage sets in .001 inch increments for both .308 Winchester and .223. Additionally, some of the gage companies will make up gages to specific dimensions upon request.

tridge is still stuck in the chamber. This is the malfunction that the "Stuck Case Remover" is designed to fix.

Sometimes when you extract the next cartridge that did not chamber, the other casing remnant will adhere to the good round and follow it out the chamber. Unfortunately, once the case head separations begin, they usually become more frequent. How does this happen? Sometimes the barrel chamber, bolt or receiver wear or stretch to the point that the headspace is altered significantly. On Browning machine guns, you have to set the headspace every time you replace a barrel. If your BMG blows casings; screw the barrel in tighter. If it doesn't chamber cartridges, or operates sluggishly, unscrew it a little. Only move the barrel one notch at a time before checking.

It is possible to experience radial case-head separations with straight-walled pistol casing submachine guns (9 mm, .45 ACP) but it is seldom a function of headspace. If you have brass that has been reloaded too many times, or is embrittled through improper cleaning or storage, the case-head separation may also occur. It will also occur with overpressure loadings.

The remedy for the gun is to remove the brass remnant with a stuck case extractor and switch to better quality ammunition. When the casings blow open near the case head due to insufficient headspace, the rupture is normally a longitudinal tearing of the casing, which remains generally intact and usually at least partially extracts.

The headspace also affects the cyclic rate of some weapons. Generally, the looser the headspace, the higher the cyclic rate. Of course this only occurs up to the point where you blow casings and the weapon becomes a single shot.

On a blowback-operated weapon, the opposite may be true, because a slightly tighter headspace will cause the ignition to occur slightly sooner, resulting in a slight increase in the rate of fire.

If you have determined that your headspace is incorrect, you'd probably like to do something about it. In many cases, correcting a poor headspace is not overly difficult. Remembering that the headspace is typically a function of

the fitting of the bolt, barrel and receiver (assuming the ammo is good), you can decide which of the three components you wish to modify to affect the change.

Normally the easiest fix is to swap out the bolt for one with a length, or locking-lug location, that when inserted into the weapon, permits the proper headspace to occur. Bolts can usually be most easily removed and are usually the least expensive of the three components. If bolts are unavailable, then a barrel change may be required. If the headspace is too short, you may be able to just lengthen the chamber of the barrel to achieve the required depth. There are two pitfalls here. The first is if the barrel or chamber are hard chrome-plated, as many automatic weapons are. You will not be able to use a chambering reamer in a hard-chromed chamber. If you try, you'll just ruin the chambering reamer, and they ain't cheap!

The other is that if you are not careful, you can very easily overcut a chamber with a reamer, and you'll have a chamber that is too long. When you lengthen a chamber, you may have to lengthen the throat of the chamber as well, to prevent interference between the bullet ogive and the rifling lands. Some chambering reamers do not have throating reamers built into them, requiring a separate reaming operation. Throating is also a very critical operation, if you want to maintain any semblance of accuracy. If accuracy is completely unimportant, overthroating will not do much harm. The tolerances for these things are generally in the thousandths of an inch. You can screw this up very easily, so be prepared for the possibility of expensive mistakes, or take it to a gunsmith.

Replacing the barrel may not be too difficult. Many military weapons are designed with barrels that can be removed fairly easily, and hence replaced with one that may be a better match for your receiver and bolt.

It sure would be nice if you could just know the size of the component that you needed and just get that size and assemble the weapon with full confidence that it would work. Very few weapons work this way. The only one

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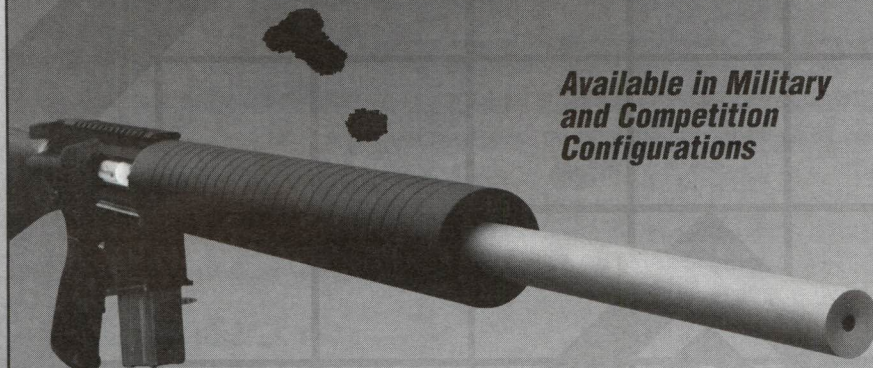
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The wrong phone number appeared in the July 96 issue. The correct number is listed above.

that I am aware of that is set up for such ease is the FAL rifle. The FAL rifle headspace is "adjusted" by the replacement of the "locking shoulder," which forms the locking lugs of the receiver.

Tooling has been made to permit the rifle to have the headspace measured on an assembled rifle (minus locking shoulder only). The tooling gives a numerical designation for the correct locking shoulder to use, and the locking shoulders are all marked according to this critical dimension. Just measure the gun, read the gage, pick out the locking shoulder with the right number, press it in with a hydraulic press, and you're done. At least it is supposed to work that way. In practice, I have found the reference numbers on the locking shoulders to be only loosely related to what their critical headspace dimensions are supposed to be. Quality control is still a problem.

If you can't find bolts or barrels and the receiver is the only thing left to modify, you may be out of luck. The heat treatment, surface hardness, criticality of dimensions and operational tolerances are all problems with a receiver.

It is not impossible to change the locking lug geometry in a receiver that has the locking lug(s) machined into it, but it is very difficult to do it safely.

Another option is to modify your casings. If you have a chamber that is too out of spec for commercially available ammunition, you can always make your own. RCBS will custom make dies for any chamber, regardless of how far out of spec it might be. Their charge for this service is very reasonable. It should certainly be considered a last resort, but it is an option.

I hope that this information proves useful to your understanding of how your weapons work, and how you may keep them working. In the next issue, I'll discuss timing, how it relates to headspace and why it is important.

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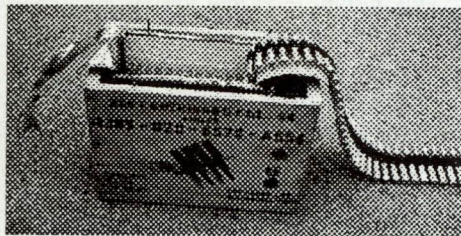
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The 1928 Thompson submachine gun with 50-round L drum.

THE

WEST

HURLEY

1928

THOMPSONS

BY FRANK IANNAMICO

T

he first time I ever saw a Thompson in "action" was on the television series *The Untouchables*.

The show was about Elliott Ness (actor Robert Stack) battling the mobsters of Chicago in the 1920s. I will never forget the sound of those Thompsons—being fired from the hip—and the sound of those "bullets" ricocheting off of the buildings. The Thompsons were used by good and bad guys alike. Another show that featured Thompsons was another old TV series, *Combat*. The hero Vic Morrow, as Sergeant Sanders, carried a U.S. 1928 A1.

The concept of the Thompson submachine gun began during WWI when U.S. Army officer, John F. Thompson, had envisioned a light handheld machine gun that could sweep the trenches of the enemy. His trench broom was to endure a long and rocky road to reality.

The Auto-Ordnance Company was formed in 1916 by John Thompson, with the financial help of Thomas Ryan. The early years were spent developing the prototypes that led to the production version. Soon a major setback faced Thompson and his company. When they were close to a final design and nearing production, WWI ended. The ensuing years found the Auto-Ordnance Corporation searching for customers.

The first 15,000 Thompsons were contracted out to Colt for manufacture.

They were the model of 1921. These first Thompsons were of very high quality and are highly sought after by collectors today. Options included a Cutts compensator, 50-round L drum, or a 100-round C drum. A 20-round box magazine was standard. Sales were very slow. Some of the guns were purchased by foreign governments, industrial police forces, police departments, and a few by the U.S. military. None of these sales were in great volume.

The U.S. military showed some interest in adopting the Thompson gun but decided the cyclic rate needed to be lower. After redesigning the actuator, recoil spring, pilot and buffer, the model of 1928 was created.

The first 1928s were existing Model 1921s that were refitted with the new 1928 parts. They were stamped U.S. NAVY, and the numeral 1 in 1921 was over stamped with an 8. These models all had compensators and a horizontal foregrip. Another model produced from existing 1921s was the rare semi-auto model of 1927. These semi-auto models are still subject to the \$200 tax due to the short machine gun barrel.

In 1939 lagging sales and growing debt plagued the Auto-Ordnance Corporation. It was close to going out of business. The owners were looking to sell the company. A few farsighted individuals saw the possibility of another world war and purchased the company. When

WWII erupted, the Thompson was the one of few submachine guns in production by any of the allied countries. The design was twenty-years old and considered obsolete by many when adopted officially by the army. The size, weight, and cost made it less than ideal for military purposes. All this notwithstanding, the Thompsons were ordered by the U.S. military and almost all of the allies. To meet production demands, two companies produced the U.S. 1928 A1: Savage and Auto-Ordnance. The manufacturer can easily be identified by the serial number. The Savage guns' serial numbers begin with the letter "S," the Auto-Ordnance guns' serial numbers begin with the letters "AO." In an effort to cut costs and raise production, the later military 1928s were made with a simple "L" type rear sight and smooth, unfinned barrels. In a further effort to reduce costs the Thompson was redesigned and simplified into the M1 version produced later in the war. The Thompson was eventually replaced by the U.S. submachine gun M3 (Grease Gun) near the wars end.

When WWII was over, production had already ended. The gun all but forgotten, the Thompsons time had passed. The idle Auto-Ordnance Corporation changed hands a few times in the ensuing years before finally being purchased by George Numrich of the Numrich Arms Corporation, today known as The Gun Parts Corporation of West Hurley, New York. Included in the purchase were a few complete guns and a treasure of parts and machinery. This took place in the early 1950s. Collector interest in machine guns was far from what it is today, and the \$200 transfer tax was probably the equivalent of half a months pay for many people.

In 1975 Auto-Ordnance began production of the "new" full-auto 1928 model Thompson. There were 199 produced the first year beginning with serial number 100A. All major components were new manufacture: receiver, barrel, frame and bolt. Many parts in the early guns were original surplus including the front and rear grips and most of the internal parts. After being in production for a time, some parts had to be manufactured to replace those no longer available. Fully transferable unit production continued until the infamous

machine gun ban in 1986. In 1992 there was additional production for law enforcement or export only. Total production of the "West Hurley" Thompson was 3,360 units. In addition to regular production models, there were special commemorative models made. These special commemorative models are included on the ATF's Curio & Relics list and, therefore, can be transferred using a C&R FFL and into C&R only states. Serial numbers on the commemorative guns varied greatly.

Most of the 1928s made in West Hurley by Auto-Ordnance were equipped with the compensator and finned barrels, adjustable rear sight and vertical foregrip. Apparently special orders were honored in many cases. I have seen these guns without compensators, different rear sights, and there were special serial numbers issued that didn't fall into the normal ranges.

The markings on the guns included

all the patent dates and AUTO-ORDNANCE, WEST HURLEY, NEW YORK, U.S.A. on the receiver's right side. The left side is marked U.S. MODEL 1928, the serial number with an "A" suffix and THOMPSON SUBMACHINE GUN, CALIBER .45 M1. The finish on these guns was blue. I think, overall, the guns are of very good quality. Many collectors say they don't compare to the early Colt manufacture guns. How many guns do?

There are several advantages to owning a West Hurley manufactured Thompson. The purchase price being much less than a Colt or WWII Thompson, it is possible to shoot them and not worry about bulging a barrel or other problems that would give a Colt owner cardiac arrest. Replacement parts are readily available from Auto-Ordnance. In addition to parts, they sell many accessories, manuals and other interesting Thompson-related products. For those

MODEL 1928s MANUFACTURED

YEAR	QUANTITY	SERIAL NUMBER RANGE
1975	199	100A-298A
1976	41	300A-329A, 344A-350A, 415A, 499A, 500A, 1112A
1977	368	330A-343A, 351A-703A, 1339A, 1070A-1071A
1978	41	704A-739A
1979	328	740-1066A
1980	537	1067A-1599A, 1929A-1930A
1981	370	1600A-1965A, 2000A
1982	130	1966A-2090A
1983	176	2091A-2258A
1984	208	2259A-2420A, 2494A-2535A
1985	110	2536A-2566A, 2484A-2493A, 2567A-2631A
1986	464	2632A-2908A, 126TFA-392TFA
1992	141	3000A-3099A, 4000A-4040A (law enforcement or export only)

Number ranges vary due to special order serial numbers

FULL-AUTO COMMEMORATIVE

1983	85	WWII Commemorative
1984	145	Korean War Commemorative
1985	17	Vietnam Commemorative

Serial number ranges too varied for ranges.

Precision Shooting

by Mark White

HARRIS .50 BMG RIFLES



Gunsmith Phil Chiaravalle hand-feeding a round into the Combo's chamber.

Harris Gunworks, formerly Harris-McMillan, offers a variety of accurate rifles. This article will deal with their M87 series, which comes in three .50 BMG variations. The M87 is a single shot. The M87-R is a magazine fed, five-shot repeater. The Combo is the M87-R with either a steel dovetail or a hinge just behind the trigger guard, allowing the buttstock to either be removed or folded. Finally, there is the M92, which is a single-shot weapon with a bullpup configuration, where the recoil pad is almost even with the rear of the action. This last, which we did not evaluate, would seem to have the most potential of those firearms mentioned.

All rifles feature a sharply tapered, 29 inch, 1 in 15-inch-twist barrel with a

colander style muzzle brake. A heavy fiberglass stock is standard, as is a Weaver type scope mounting base. The lightest weapon weighs about 22 pounds, with optional accessories adding considerably. Prices range from \$3,800 to over \$8,000.

At the outset it should be mentioned that many of the new .50 caliber rifles available today have design problems that need to be worked out. If I picked up a surplus .303 Enfield or a 98 Mauser, I would expect 100 percent functionality. These weapons had their bugs worked out and were fully functional almost a century ago. For the most part, the .50 BMG bolt-action rifle is still in its infancy. Rifles built in this caliber need more time to be fully developed. Components and accessories

made for other rifles are rarely capable of withstanding the weight and recoil of the big fifty.

The Naval Warfare, Group 1, SEAL training base is very near my summer quarters on Kodiak Island, about 100 miles off the coast of Alaska, in the North Pacific Ocean. The SEALs have a number of these rifles in their inventory. When everything is perfect the rifles deliver very accurate fire. A touch of sand, however, will tie the actions up, rendering them inoperable. Typical problems include failure to fire, failure to feed rounds from magazine, failure to extract, bolt handles breaking off when attempting to open bolt, triggers getting fouled up with sand and bipods breaking. Typically, the barrels and stocks have been OK. Service has been slow

and grudgingly applied. Accuracy, a problem with some manufacturers, has never been an issue with Harris. When they work, they deliver very accurate fire.

The two rifles in these tests were Combos, delivered into civilian hands. After a wait of well over a year we were eager to try the rifles out. The rifles came in Pelican cases with some of the components broken down to reduce overall length. First, the bad news. The magazines which came with the first rifle would not function. Attempting to work the bolt would move the first round out, but that round would not chamber. The act of moving the bolt over the column would jumble the rest of the cartridges, ensuring that none of them would feed. A lot of money was spent on a repeating rifle that in reality would only function as a single shot. No matter. The shock and noise of firing was so severe that rapid fire with this bolt gun would not have been effective.

Firing (ignition) was only about 20 percent effective with a mix of new PMC and military ammunition. That is to say that four out of five attempts to fire a new cartridge would result in a click instead of a bang. This was quite unnerving. Spring changes and firing pin adjustments failed to help in any way. A month later Harris reworked the bolt, improving reliability to some degree.

A bystander at the range was appalled at the lack of reliability in the expensive (\$7,500) Combo. He said he had kept a cheap \$99 Snake Charmer .410 shotgun in his open skiff for four years. If that would go bang whenever he needed to shoot a big fish, why couldn't they do that with a rifle costing 75 times more. I had no answer for him.

The expensive bipod was fragile, and poorly designed. When one looks at human or animal legs, they are found to be larger and thicker near the body, tapering and getting smaller and thinner as they get closer to the ground. This time-honored method of construction has much to recommend it. The legs on this bipod

were thicker near the ground, and painfully thin near the point where they joined the stock. No wonder the SEALs keep breaking them.

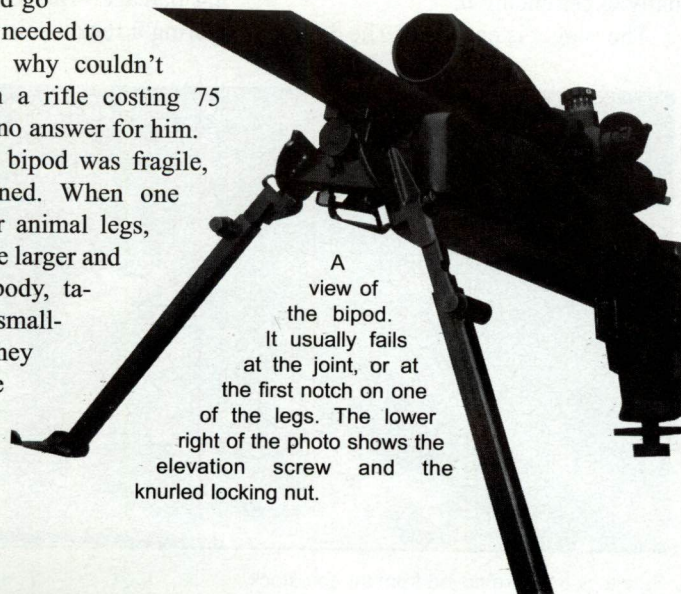
When used by a careful benchrester, they might hold up. When used on a tactical weapon they will fail the second one plops the weapon down hard on a beach assault.

When complaints were registered about the first weapon's failure to fire, we were told that these rifles are not fired at a range before they are shipped. The act of test firing a weapon picks up all sorts of faults that could be corrected at the factory. I strongly urge the manufacturer to change its policy.

The second rifle had a broken extractor when it arrived. The front of the bolt face is patterned after Remington's bolt, except for the fact that it has a Sako style extractor, which I feel should be a little thicker where it is notched out for the cartridge rim. Unfortunately, repairs were not made in a timely manner, and we were not able to evaluate the second rifle in time for *MGN's* deadline.

All metalwork was finished with Black Poly T by Robar Inc. This coating scratched, and corrosion was a problem on those rifles that the SEALs used.

Local bear guides have been using a coating called Black T, which is applied by Walter Birdsong & Associates, 1435 Monterey Rd. Florence, MS 39073, phone (601) 939-7448. The same coating is also available in NATO Green. During spring and fall bear hunts, the guide rifles are exposed to rain and salt spray, in and out of skiffs, dragged



A view of the bipod. It usually fails at the joint, or at the first notch on one of the legs. The lower right of the photo shows the elevation screw and the knurled locking nut.

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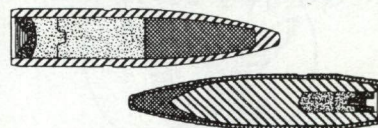
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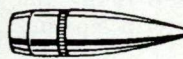
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through brush, and carried for days in a very wet environment without an opportunity for cleaning and oiling. Nothing the guides have used has worked as well. Black T can be deliberately cut and scratched with a knife or on very sharp rocks, but it takes normal wear and abuse in stride. All the new FBI MP5s in 10 mm have been slated for treatment with Black T in Birdsong's shop. If and when we find something better we'll let you know about it in *MGN*.

The removable stock piece had a bent aluminum cheekpiece that provided for a theoretically optimal cheek weld at the proper scope height. Unfortunately the adjustment failed to provide enough room to get one's eye behind the lens of the scope. If the slots were milled out far enough, then there wouldn't be enough room for the bolt to be removed.

The elevation screw in the buttstock has threads, which are too fine and too tight. It is very difficult to turn the large knurled bolt.

Now for the good news. Eventually Harris reworked the rifle, and it is now more reliable. The firearm is very accurate. Very small objects can be hit at great distances.

The buttplates were made out of heavy rubber of good quality. Still, the shock of firing was severe. I suggest that the buttplate be made wider and thicker and softer to mitigate the recoil to a greater degree. The .50 has a lot of energy, and it is difficult to fully appreciate the severity of the recoil without actually experiencing it.

The trigger is excellent. The dovetail

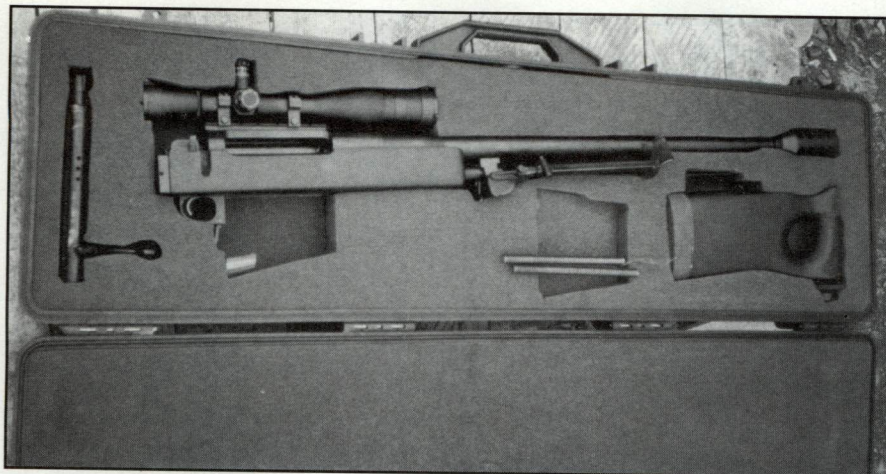
in the buttstock is surprisingly secure. It does not appear to impact accuracy. The dovetail is secured with a small screw. One must carry a wrench in the field for this screw. The muzzle brake, while loud, is quite effective. It should be remembered, however, that the brake can only begin to act after the bullet has passed from the bore.

One would not want to fire this rifle from prone in mud, sand or gravel; however, as that would blast great quantities (as in cubic feet) of material in every direction. Firing without the brake might lead to shoulder separation, brain damage, or a detached retina. Seriously. These injuries have occurred with .50s shooters all too often, and one should seriously weigh the consequences before stepping behind such a rifle. Ralph Seifert, of RASE made the observation that it is unfortunate that we do not have a test to tell beforehand if one will suffer a detached retina before pulling a .50's trigger. One will only find out after the fact.

The .50 BMG is a scaled-up .30-06. Normal operating pressure is only about 43,000 psi, absolute. Handloaders have cranked this up to 65,000 psi on occasion. Heavier bullets and short barrels will increase the sound pressure wave. The noise of firing this weapon with the muzzle brake is substantial. Ear muffs and ear plugs will not mitigate the damage entirely, as the sound travels through one's throat and forehead to impact the inner ear. As mentioned a few months back, the Finns have developed a special helmet to reduce internal hearing damage. This is not a problem requiring a rocket scientist to engineer. A



Buttstock being removed from the forestock.



The Combo in its Pelican case.

Combo Stats

Caliber—.50 BMG
Barrel length—29 inches
Length of muzzle brake—4 3/4 inches
Length of barreled action with brake—43 inches
LOA, with buttstock—55 inches
Weight of complete firearm, with scope, unloaded—22 pounds
Weight of firearm with accessories, in case—58 pounds

motorcycle helmet with a face shield and a heavy scarf will help considerably. Taping over the ear holes in the helmet would be a good idea. If your ears ring (or sing!) after a bout of firing, your protection was inadequate. It's that simple. A suppressor will assist in reducing both the noise and the shock of firing, as the 250 grains of propellant gas is responsible for at least half of the .50's recoil. The day may come when most military .50s are suppressed.

In summary, Harris .50s tend to be very accurate weapons. Their weak points (in either design or quality control) seem to be bolt, bolt clearance, extractor, chamber depth, firing pin (ignition), magazine, bipod, finish and service. Their strengths lie in the stock, receiver, barrel, muzzle brake and trigger. While a repeater with a magazine may sound like a good idea, one would do about as well with a single-shot action. One would have to be very pumped up

on adrenalin in order to be effective with a repeating fifty. A single-shot rifle would cost less, feel better, and would be more reliable. Again, the bullpup design is inherently shorter, lighter and simpler than a stock with a removable butt. I am a little nervous about laying my face and right eye directly on a bullpup rifle's bolt. If the bullpup is purchased, a padded face protector made of at least .090" chrome moly steel would be a worthwhile investment in safety.

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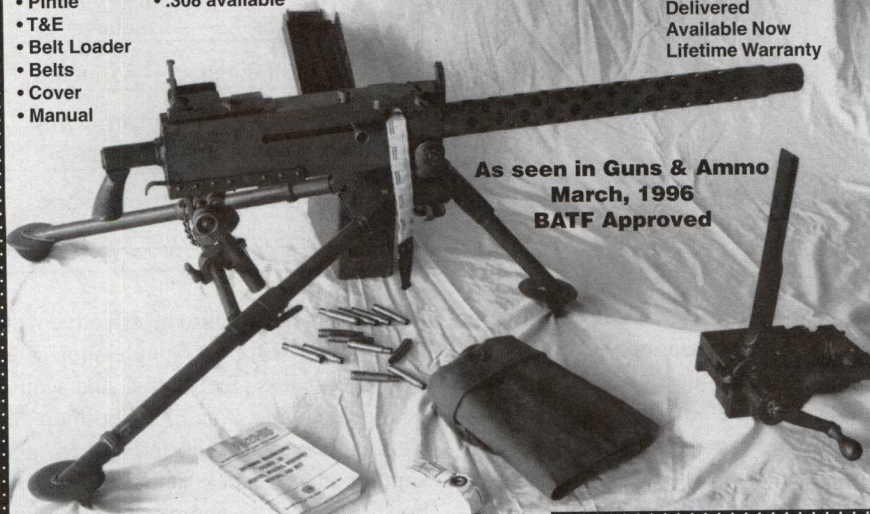
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The cartridge on the left is unfired and unstruck. The two in the center are unfired, but struck. The shell on the right successfully fired.

The case is made by Pelican, 23215 Early Ave., Torrance, CA, 90505, phone (310) 326-4700. The cutouts in the foam were neatly done, but no attempt was made to glue the layers together. After handling the case, some of the smaller pieces were found to have migrated between the layers of foam. If the middle layer was glued to the bottom layer this would not occur.

At a weight of nearly 60 pounds (plus ammo), the cased weapon is not something I would want to pack 3 miles into a deployment. The case is of molded thermoplastic. It appears to be very tough. A crack can be plastic welded by someone skilled in the art.

The cost of ammunition can be substantial. Surplus military ammo is often available for about \$1 a round. Surplus ammo can be expected to group from 2 to 4 inches at 100 yards. Handloads will do much better. They should be tailored to the vibration of a particular barrel—start light, and work upwards in 2 grain increments. Try different bullets. The toughest, most accurate bullets I'm aware of are available from Carl Matts, 3602 E. Indianapolis, Fresno, CA 93726, phone (209) 227-2752. Matts' bullets are swaged from solid copper, and then molycoated. The most accurate (and most expensive) powder seems to be Vihta Vuori oy. It is very consistent, lights easily, and is very reliable. Primers are unusually large and cost about 12¢ each, plus. Join the 50 Caliber Shooters Association for a directory of suppliers, 11469 Olive St. Ste 50, St. Louis, MO 63141, (505) 445-1330. Memberships are \$25 for one year and \$45 for two years.

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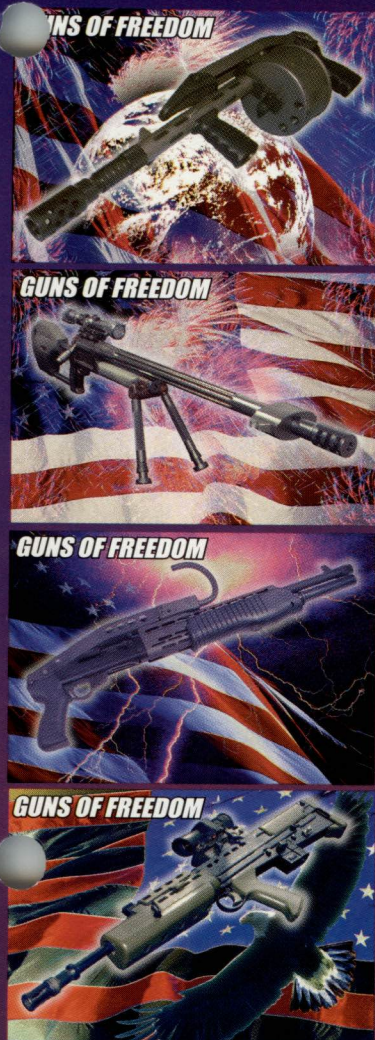
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Gemini Technologies

by Dan Shea



No product is really sold until it is delivering satisfactory service to the user.

—Gemtech product prospectus

Dr. Philip Dater shooting the M4 carbine with Gemtech's M4 suppressor. Note how steady the muzzle is in a full-burst mode.

Sports metaphors have always been common in American culture. A successful bidder “hits a home run” when a contract is won; someone who achieves material success “won the pennant”; and the cry of “he shoots, he SCORES” is heard in many circles as lady luck smiles on someone not afraid to take a chance.... The term “Dream Team” is now used to describe an outstanding coalition.

In the suppressor manufacturing world, Gemini Technologies could well be considered “The Dream Team.” Dr. Philip Dater, of Automatic Weapons Company (AWC) fame, and Jim Ryan of JR Customs, have drawn together a team of designers and innovators that has already produced some groundbreaking designs, with promises of much more in the future.

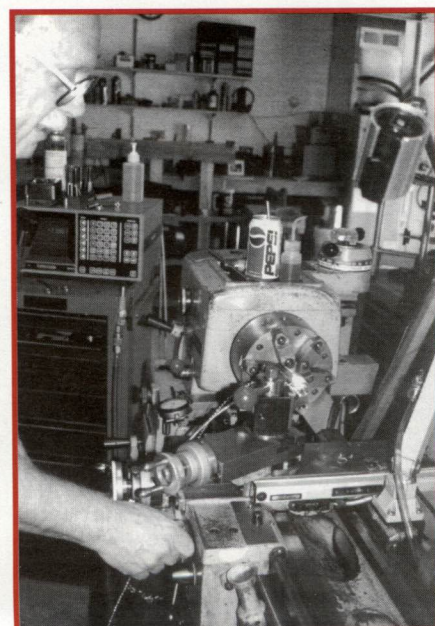
Dr. Dater is a licensed physician and retired diagnostic radiologist who is better known to those in the Class 3 world for his suppressor designs. He started in Class 3 in 1976 but has been actively interested in and collecting machine guns since the 1950s. His original Automatic Weapons Company (AWC) yielded numerous suppressor designs, many of

which are still being manufactured and copied today. (AWC Systems Technology is a different company entirely, although many of their older products are based on licensed Dater designs.) This author has possession of several early Dater suppressed Ruger MK2 pistols, apparently inspired by the MAC Vietnam era designs. Even considering the time period, the workmanship and efficiency of these designs is outstanding, far exceeding the MAC products.

Jim Ryan and Mark Weiss joined the Gemini team from JR Customs, a company they had founded in 1989. Jim is a U.S. Army veteran, who had been a specialist in small arms repair and a gunsmith on combat handguns and sniper rifles. Mark has a 17-year background in computers, laboratory automation, and statistical analysis. JR Customs was already on the way to proving its place in innovative suppressor technology when they decided to move their talents over to Gemini.

Greg Latka, the founder of GSL Technologies, makes up the fourth part of the team. His family has a long history of being involved in military research and development, including the Man-

hattan Project. His personal background includes 29 years in the aerospace manufacturing business. Greg brings experience with automatic and CNC milling machinery in intensely controlled products and exotic materials to round out the Gemini Technologies team.

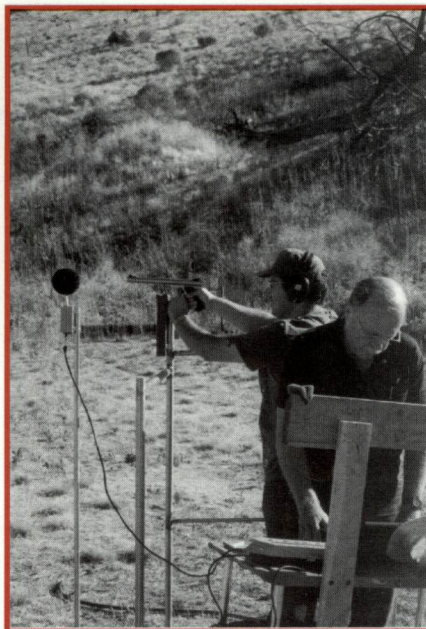


Dr. Dater starting with raw material on his precision lathe—another prototype on the way?

Gemtech Division of Gemini Technologies, Inc is the suppressor manufacturing group. Most of the products are hand-fitted, assembled and tested at the main office in Boise, Idaho, which is where *MGN* went to view the production and do the actual tests on suppressors. It was a hot August day when I arrived there to do the testing. Phil Dater, Jim Ryan, and Mark Weiss were all there, only Greg Latka was missing due to other commitments. This gave me the opportunity to talk with each of them as we set up tests and tried different models of suppressors. I was very impressed with the fact that they were each involved in different areas of production, yet were all focused on the same objectives of quality and innovative technology.

Production work is done at a separate location on automated and CNC machinery under Greg Latka's supervision. Prototyping, assembly and testing are done at the Boise facility. The basic shop layout is a secured area, with "Phil's lathe" and "Jim's lathe." It was readily apparent to me that each man was proud of his prototyping station. Milling machinery and other machine shop equipment were in use, but they did not seem quite so territorial about these pieces.

Every spy movie has its "eccentric



Jim Ryan fires the Gemtech "Operator" while Dr. Dater runs the testing apparatus.



Mark Weiss demonstrates the correct position for testing sound levels on Gemtech's test frame. Note how the muzzle of the rifle is even with the microphone, on the same level, exactly 1 meter to the right of the microphone, per military specs.



Phil Dater's custom testing setup. The Larson Davis 800-B meter on the right inputs to the HP Omnibook 425 computer with a special sound-based program written by Dater. Two of the reasons that the Omnibook 425 is used instead of a more modern laptop have to do with the LCD screen which is easily visible in sunlight—unlike most laptops, and the fact that it will operate for 7 or 8 hours using 4 AA batteries.

inventors," who they usually keep in a secretive back room. "Bond, James Bond" walks through the security into the back room and is given all kinds of interesting and strange devices to use in the course of his "activities." Anticipation is always at its best just before Class 2 inventors open their gun vaults. Lord only knows what kind of things will be inside, and I eagerly awaited Phil opening up the Gemtech gun room. I was not disappointed. From the prototypes for the M4 suppressor to the tiny Aurora suppressor on the Glock 26, to the newest LD-9 survival tool (Yes, it's a 9 mm penguin among other things, that the military is interested in!), my

instant response was "Hey! Can we try THIS one?"

We spent the next two days outside shooting different weapon designs.

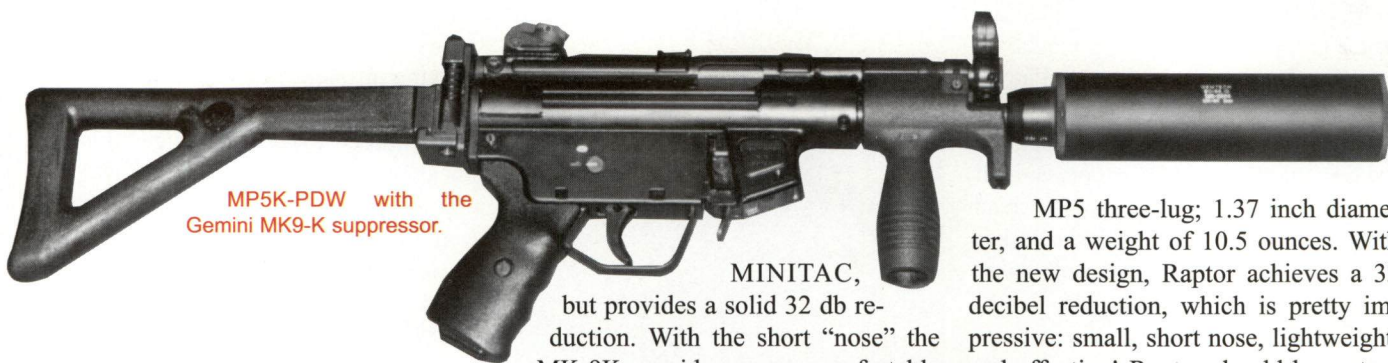
The M4 suppressor design is the one I have chosen to go into more depth in this article (see sidebar and charts), but a brief overview of the product line should help the reader and end user see the quality of the Gemtech offerings.

Submachine Gun Suppressors

Gemtech has three very compact suppressors for the submachine gun user. All are durable enough to withstand heavy duty use but are designed for different applications. The 9 mm MINITAC, which has been basically discontinued, was a lightweight, very slim design. These are 8 inches long, only 1.37 inches in diameter, and weigh a virtually unnoticeable 10.5 ounces. This small package provides a 27 decibel reduction. While not the quietest suppressor, it is certainly an impressive weight reduction. In current production is the MK-9K, which has a larger diameter (2") and weight (20 oz) than the

Idaho Hospitality

Phil Dater is good-natured, genteel and a gracious host. His New Mexico background gives him away when he starts cooking. While I was there, he arranged a southwestern style Blue Corn Enchilada Feed with a group of the Gemtech staff and friends. (Note to Peter Kokalis: that was "enchilada" not "enfilade." One is Emma Gee terminology, the other a Mexican supper dish.) Looking out over the Idaho hills, and talking with the company is something this author will long remember. The other opportunity I was pleased to have had was to meet with members of the board of the Idaho Automatic Weapons Collector's Association. This was at a dinner featuring Class 3 dealer Jon Carter's famous spaghetti sauce. IAWCA is planning on having a machine gun shoot in the style of the larger national shoots, and we had the time to talk a little about the logistics of such things. Let's all hope they get one put together. Idaho has a plentiful and enthusiastic group of Class 3 folks, and they have always been an asset to the shooting community. *MGN* will keep you posted.



MP5K-PDW with the Gemini MK9-K suppressor.

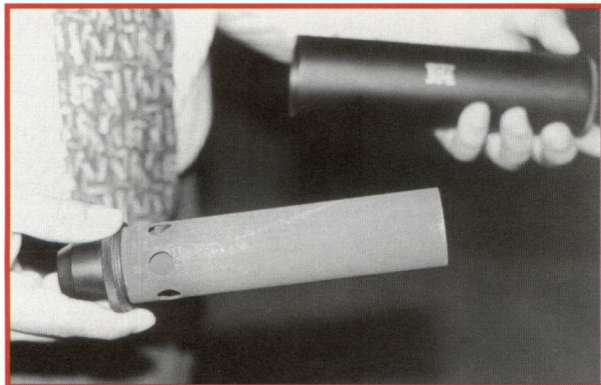
MINITAC, but provides a solid 32 db reduction. With the short "nose" the MK-9K provides a very comfortable

and effective suppressor. (Nose is a slang term used in reference to how the length of a suppressor can affect the turning radius of a submachine gun that the operator experiences, as in going through halls and doorways. It is also a reference to the weight added to the front of the submachine gun. "Too much nose" is a negative thing. Put a 2-pound, 14-inch can on your MP5 and see the difference.) The newest addition to the Gemtech line is the "Raptor," which is a 9

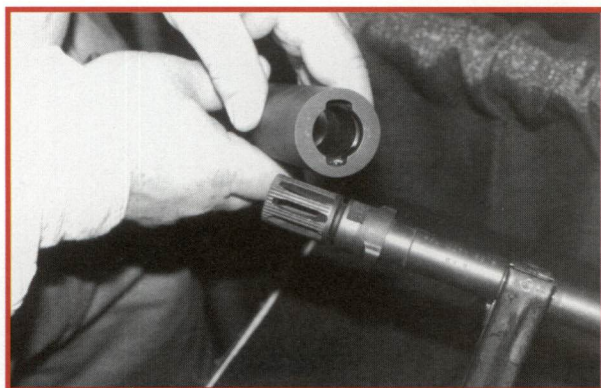
MP5 three-lug; 1.37 inch diameter, and a weight of 10.5 ounces. With the new design, Raptor achieves a 33 decibel reduction, which is pretty impressive: small, short nose, lightweight, and effective! Raptor should be a standard on the suppressor market quite quickly. Retail pricing—MINITAC \$500; MK-9K \$550; Raptor \$595.

The 9 mm Pistol Suppressors

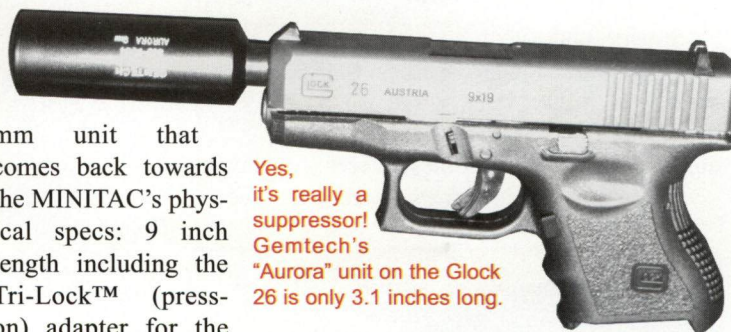
The outrageously small Aurora suppressor (3.1 inches long!) on the Glock 26 has captivated the attention of all viewers. Yes, it really works. This is special environment technology, with a grease and wipe atmosphere that has a planned degradation over the ten-shot expected life of the replaceable internal pack. The plan is to use this for pilots as a "back-up" unit. Spare internal cartridges are packed in separate tubes. A Glock 26, several mags, the Aurora and a couple of repacks will fit handily in a flight jacket pocket. The Gemtech offering to the general public for pistol sup-



Internal parts to the MK9-K.



Gemtech's two-lug mounting system. Note the difference in connector hole sizes on the suppressor; it is impossible to mount the suppressor with an incorrect orientation.

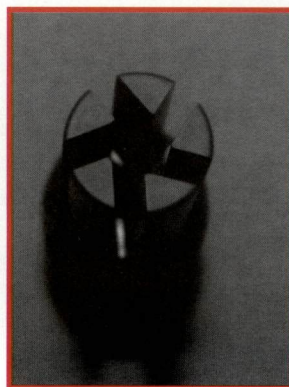


mm unit that comes back towards the MINITAC's physical specs: 9 inch length including the Tri-Lock™ (press-on) adapter for the

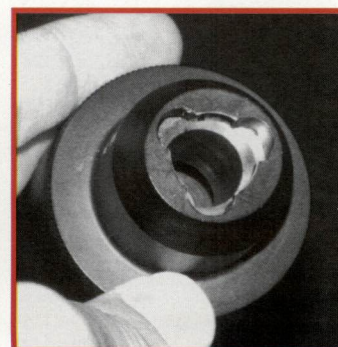
Yes, it's really a suppressor! Gemtech's "Aurora" unit on the Glock 26 is only 3.1 inches long.



Left: Raptor suppressor on an HK MP5 submachine gun.

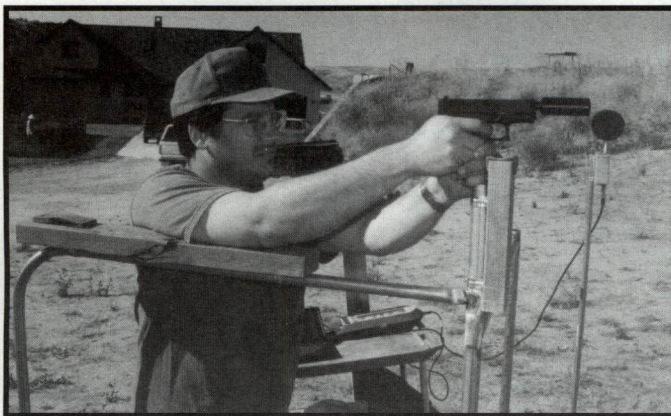


Business end of the "Tri-Lock"™ flash hider.



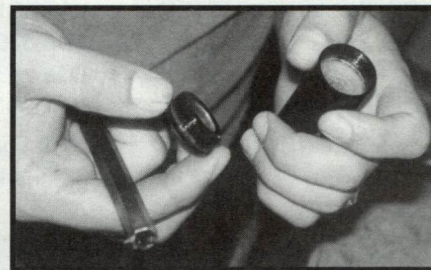
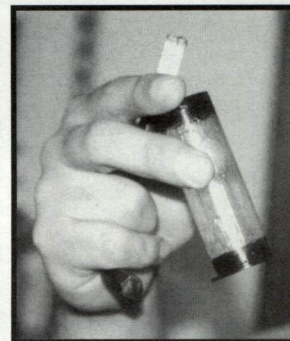
Gemtech's patented Tri-Lock™ quick attach adapter for 3-lug mounting on MP5s or other SMGs that have been modified.

pressors is comprised of the SOS can in 9 mm, which is 4.75 inches long and uses "wet" technology and the Vortex-9 unit which is a 7-inch long "dry" can. Aurora sales are limited to government agencies.

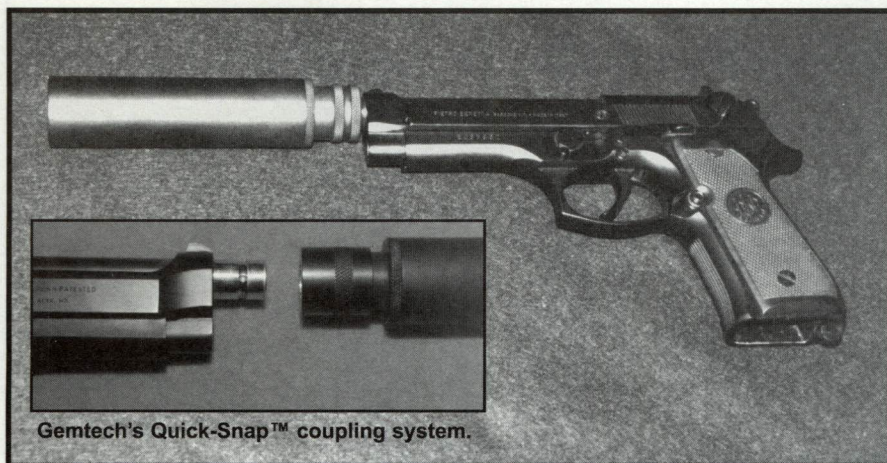


Jim Ryan firing the Aurora on Glock 26 for the test.

Empty cartridge for the Aurora suppressor repack.

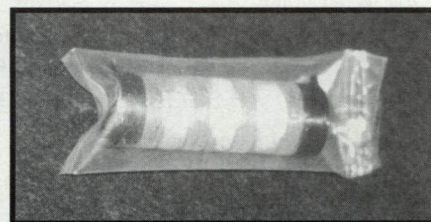


Aurora suppressor opened for repacking. Note that the disassembly tool doubles as a prod to push the old pack out.



Gemtech's Quick-Snap™ coupling system.

Gemtech's Vortex-9 with Quick-Snap™ quick detach coupler on Beretta 92.



Fresh Aurora insert cartridge.

DEFY THE DARKNESS

NIGHTVISION

Get the power to see at night as nocturnal animals do! Perfect for spotting nesting sites, studying animal habitats or just plain fun!

Spotting Scopes from \$395

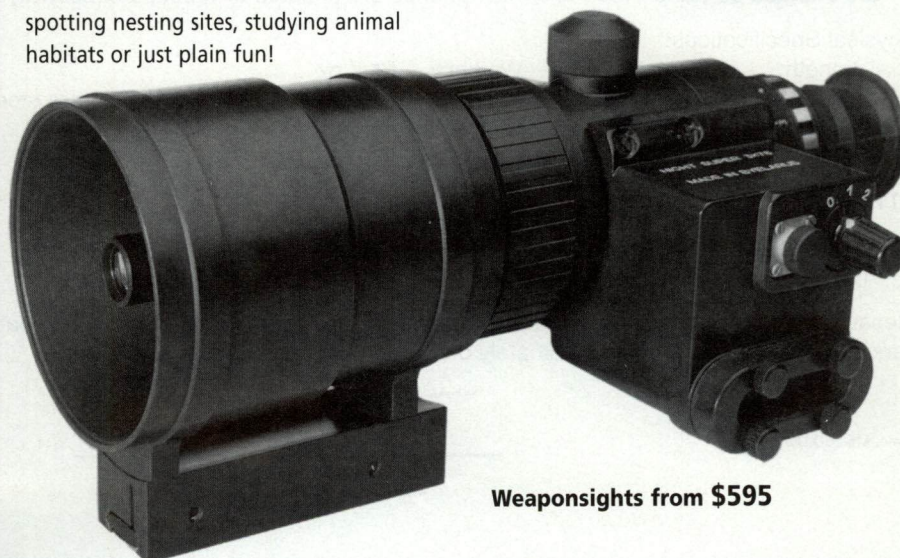


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SOUND SUPPRESSOR TEST

COPY

DATE: May 2, 1996
TEMPERATURE: 58/14° F/C
VELOCITY OF SOUND (λ): 1,115 fps

PRESSURE: 685 mmHg
RELATIVE HUMIDITY: 60%

SOUND LEVEL METER: LARSON-DAVIS 800B s/n 0486B0758
PREAMP: LDL 826B, s/n 0624
MIC: LDL 2530-1133, 1/4" Random Incidence
CALIBRATOR: LARSON DAVIS CA-250-0809 (114 DB)

TEST CONDITIONS: Microphone located 1 meter 90° to the **left** of the muzzle, 1.6 meter above ground level over grass as per MIL-ST-1474C

WEIGHTING: **A**
TEST LOCATION: Boise, ID, 116°W 15'14", 43°N 44' 29"
ELEVATION: 2920' MSL

TEST WEAPON & CAL.: M4A1 Carbine, 5.56x45mm
AMMUNITION: SS109
SILENCER MFG: Gemtech
MODEL: M4-96D
SERIAL #: S96-3100

DATA (10 round average):

	INITIAL TEST	1200RND	
AVERAGE NON-SUPPRESSED S.P.L.:	164.7	164.7 dB	(See Note 5)
AVERAGE SUPPRESSED S.P.L.:	132.9	132.3 dB	(See Note 4)
OVERALL SOUND LEVEL REDUCTION:	31.8	32.4 dB	
FIRST ROUND FLASH	+2.9	-0.5 dB	(See Note 1)
AVERAGE REMAINING 9 ROUNDS	132.6	132.3 dB	(See Note 1)

NOTES:

1. First Round Flash Level is the dB increase (or decrease if negative number) of the suppressed first round compared to the average of the remaining rounds and is included in the overall average suppressed S.P.L. First round flash is considered to be insignificant if less than 3 dB.

2. Microphone was oriented 80° to sound origin, correct for Random Incidence Microphone. Pressure microphones are oriented 90°, and Free Field microphones are oriented 0° (pointed directly at) the sound source.

3. Physical Specifications:

Length: 7.75 inch Weight: 24.7 oz
Diameter: 1.5 inch Materials: Inconel and Series 300 stainless steel

4. Suppressed Levels (In measurement order):

Initial:	135.5	133.5	131.5	131.8	132.0	132.3	132.5	135.0	131.3	133.5
1200 Rds:	131.8	131.3	133.0	131.3	131.3	131.8	132.0	131.3	134.8	134.3

5. Non-Suppressed Levels (In measurement order): Weapon: M4A1

164.3	164.5	164.8	164.8	164.8	164.8	164.5	164.5	164.8	165.0
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6. Measurements made with suppressor **completely dry** degreased. A minimal oil coating in the suppressor will enhance the performance by approximately 6 dB and decrease the first round flash.

Filename: M4-96D.DOC

Certified May 5, 1996

MODEL: **M4-96D**

The M4 Suppressor Contract

The latest incarnation of Eugene Stoner's M16 design is the M4A1 Carbine. As the U.S. military keeps trying for the "Weapon for the 21st Century," innovative American designers keep coming up with improvements that can be readily added to Stoner's adaptable design. Essentially the M4A1 is a 14 1/2" barreled carbine with a 4-position collapsing stock, chambered for reliable 5.56mm NATO and rifled for SS109 ammunition. The barrel has a groove for seating an M203 grenade launcher, and the brass deflector and A2 sights are used. Some variants



Gemtech's offering in the U.S. Military procurement tests is the Model M4 suppressor mounted here on an M4 carbine.

include the "Flat-top." Many of the Spec-Ops teams are now using the Knight's Armament Company Rail Interface System (*MGN* Vol 9 NO 4 September 1995).

The latest bidding for the U.S. Military is on a suppressor system for the M4A1. Requirements include a quick-attach system that doesn't interfere with the future mounting of the bayonet, as well as some pretty severe torture testing and stringent sound reduction.

According to information that *MGN* has been able to gather, entrants in the bidding for the M4 suppressor include Knight's Armament Company, Gemtech, and Ops Inc. We obtained the result sheet from Gemtech, as submitted with their offer on the M4. (Watch *MGN* for upcoming articles on the other entrants.)

While I was in Idaho, I watched a two-hour video of torture testing Gemtech's M4 unit. This included a series of rapidly emptying magazines, dunking it into water, holding it at varying angles to ensure certain percentages of water retention, then firing assorted preordained bursts through it. The video covered hundreds of rounds fired (well over a thousand fired as fast as the tester could go). No suppressor is expected to survive such torture testing, and the anticipated failure occurred at an astonishing 2000 rounds into the test. (Front end cap went downrange.)

The Inconel and Series 300 stainless steel used in manufacture of this 7.75" long, 1.5" in diameter suppressor helped keep the weight to 24.7 ounces. Throughout the torture test, and during the *MGN* testing, the Gemtech M4 contender maintained a 30 plus reduction in decibels. This is outstanding performance and should help their chances of obtaining award of a military contract. At press time, the contract has not been awarded. Gemtech is currently delivering these suppressors to fill dealer orders, with a manufacturer's suggested retail of \$695 with one Bi-lock flash hider.

POSTWAR MG-42 TRIPODS



CATSET LLC
has just obtained
a small quantity of
postwar MG-42 tripods.

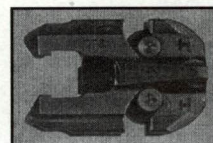
These are complete, including carrying straps. (No, the optics are not included.) We have these in varying conditions, relating to paint condition. These won't last long, and there are no more available.

Excellent ++	\$2500
Excellent.	\$2300
Nice, a few paint chips	\$2100
Missing a little more of the paint	\$1950
Anti-aircraft extension each	\$350
Anti-aircraft extension with tripod each.	\$250

MG-42 STRIPPED BOLT HEADS

This is the part that breaks on your MG-42 bolt assembly. The other problem is that after about 10,000 rounds, the firing pin hole enlarges. These are rare as can be, and we have a small quantity left.

Postwar mfg. very good condition ea...	\$50.00	3 for	125.00
10 for	350.00		



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The .22 Caliber Rifle Suppressors

Gemtech's basic offering for .22 caliber rifles is either their standard wipeless Vortex-2 for a removable unit or the built-on Quantum-2000. Both are designed to utilize either high velocity or standard velocity ammunition. Our testing used the standard velocity ammunition. The decibel reduction numbers are much more impressive on the high velocity ammo, but the fact that these units are reliable with standard velocity was considered much more impressive. Retail pricing—Vortex-2 \$500; Quantum-2000 on a Gemtech-supplied rifle \$1225.

The .22 Caliber Pistol Suppressors

Four basic styles are available on .22 pistols. For the removable type units, two radically different technologies are available. The 3.1 inch long LDES unit

is wipeless but uses wet technology. It produces reductions in excess of 38 decibels, depending on the host firearm, the ammunition used, and the artificial environment medium. These can also be fitted to rifles and the LDE single shot survival weapon. The Vortex-2 dry system is the same as used on the rifle system. Next is the GSL 7/8 "Slimline" model: a screw-on unit that is 6 inches long and 7/8" in diameter, yielding an approximate 31 decibel reduction. Integral units are based on the Quantum MKII style which is a wipeless design that is 7.1 inches in length. The base firearm is the Ruger MKII pistol or the newer 22/45. The Operator is a dressed-up 22/45 Quantum with an optically flat finish, an innovative bolt-lock device, and a trigger job. Retail pricing—Quantum MKII \$550 on your weapon; Operator \$1125 including 22/45; Vortex-2 \$500; LDES \$450; 7/8 Slimline \$550.

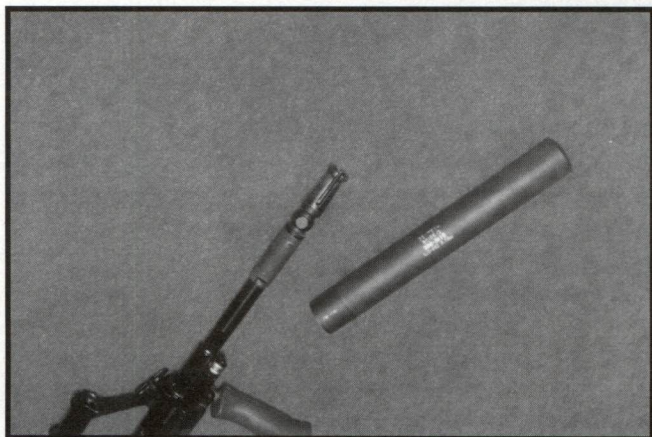
Barrel threading, special finishes and trigger work are extra excepting the Operator system.

Rifle Suppressors

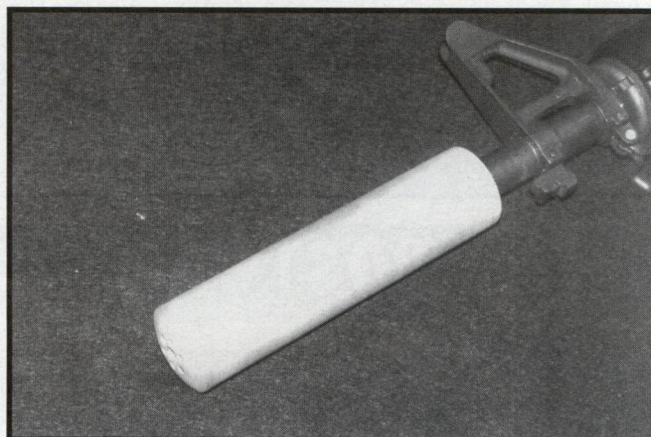
Spec-Op suppressors are available in 5.56 or 7.62. These are heavy duty 11.2 inch suppressors that yield 35 decibel reductions (there are variables to this). Diameter is 1.62 inches, and the weight is 2.5 lbs. These units provide a lifetime of service and will handle full-auto fire. Retail pricing—Spec-Op 5.56 \$595, and Spec-Op 7.62 \$595. Barrel threading is extra, and special purpose accurizing is an available service.

The M4 is covered in detail in the sidebar.

The LDES single-shot survival weapon and the new LD-9 will be featured in upcoming issues of *MGN*, as will the basic suppressors that Gemini manufactures. *MGN* will continue to



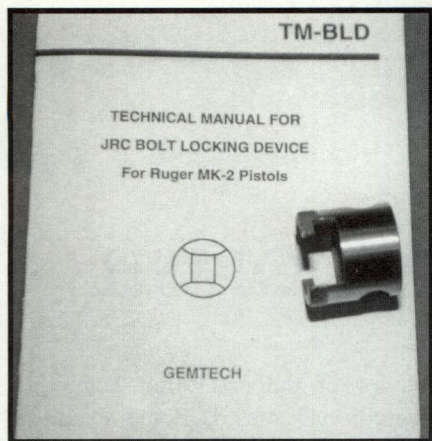
M4-AUG with Steyr AUG.



Predator - (M4-96C) .223 suppressor.

Gemtech: Sound Measurements

Weapon	Ammunition	Suppressor	No. of samples	Avg of samples	dB Reduction	1st Rnd Pop	Avg remaining rounds
Ruger MK2	Rem Target Std Vel	none	5	152.9		-0.2 dB	153.0 dB
	Rem Target Std Vel	Quantum (MK2)	10	118.3	34.7	+6.7 dB	117.6 dB
MP5	147 VV320, 3.7 gr	none	5	154.7		+0.2 dB	154.6 dB
	147 VV320, 3.7 gr	Raptor	10	122.5	32.1	+11.4 dB	121.4 dB
G26	147 VV320, 3.7 gr	none	5	160.0		-0.6 dB	160.1 dB
	147 VV320, 3.7 gr	Aurora	7	142.5	17.6	-4.6 dB	143.1 dB
	147 VV320, 3.7 gr	Aurora	9	141.1	19.0	-0.3 dB	141.1 dB
10/22, 16 bbl	Rem Subsonic	none	5	140.1		+1.2 dB	139.8 dB
	Rem Subsonic	Vortex	10	117.8	22.3	-2.2 dB	118.0 dB
	Rem Subsonic	Quantum 10/22	10	116.4	23.7	-1.6 dB	116.6 dB
	Remington SV Target	Quantum 10/22	5	117.2	22.9	+0.1 dB	117.2 dB
Destroyer	Winchester .45 Ball	Destroyer	5	128.8		+7.8 dB	127.5 dB
M4	BH 69 HPBT	none	4	163.0		-.03 dB	163.1 dB
	BH 69 HPBT	M4-97D	10	133.0	30.0	+2.0 dB	132.8 dB



Detail of JRC bolt-locking device.

follow these innovators in the special weapons field, as we are positive that the above are not the last offerings that will come out of the "Dream Team."

Gemtech Sales Policy

Gemini Technologies does not do retail sales. They sell direct to dealers (01 and C3), government agencies, and police departments. Orders from individuals must be prepaid (either by them or their dealer). Dealer orders should be prepaid, but Gemtech will accept 50 percent down and ship the balance COD. COD orders have all applicable UPS charges added as well as a COD handling fee of \$20. Selected dealers (who have distributor status because of their volume) are shipped on open account payable, net 15 days, after a satisfactory credit check. Effective October 1, a flat S&H fee of \$10 will be added to each package. To test the current models

out, contact your local Class 3 dealer for a demo.

Contact Information

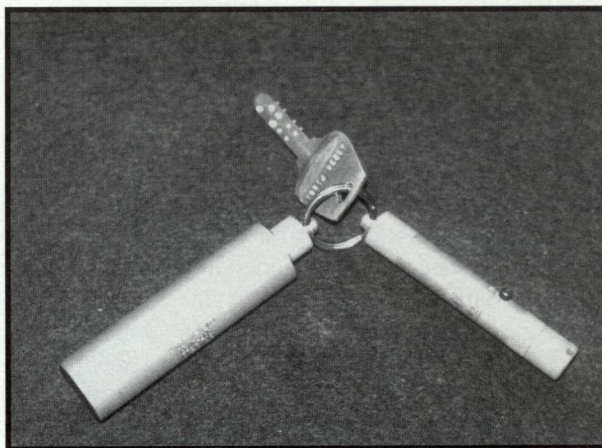
Catalog is available for \$5 postpaid or free with your Class 3 license getting on file.

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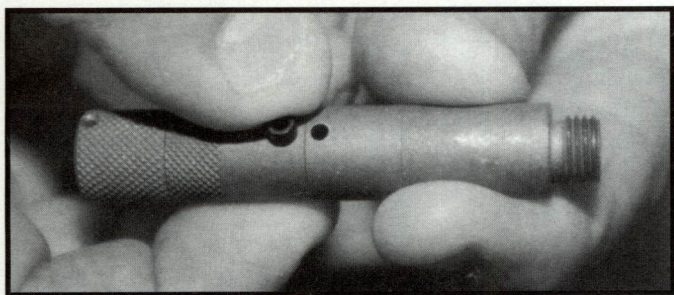
Testing Suppressors

Phil Dater has written a pamphlet on sound measurement that details what should be considered the industry standard. It is called "Sound Measurement: Firearms Sound Level Measurements; Techniques and Equipment" and is available from ATI Star Press, PO Box 3538, Boise, Idaho 83703 phone (208) 939-7222 (price is \$4). In this pamphlet, he explains in clear terms the characteristics of sound and decibels, and the different equipment used to measure them. What is especially pertinent here is that the language of sound measurement is very precise, and in order to compare products or to see exactly "what" the reduction is of a certain design, we must have a scientific basis to start from and to repeat that process each time. Every variable must be taken into account.

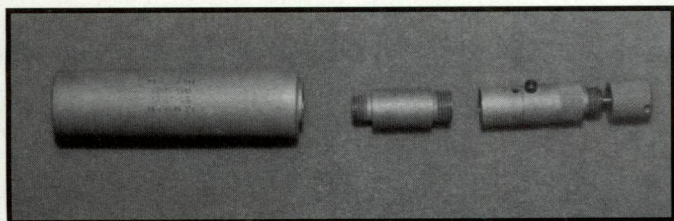
MGN's Suppressor Technology Editor, Al Paulson, has written on this subject numerous times, and it is not necessary to repeat all of that information in this article. Suffice it to say that all testing we did was on Phil Dater's testing mount, which keeps all components of the test (muzzle position, microphone position, height from the ground, angles of aim, etc.) in a constant relationship. All atmospheric variables were also recorded and are in the test results. If you are interested in a more in depth analysis or understanding of what these units mean, I suggest you get a copy of Dr. Dater's pamphlet.



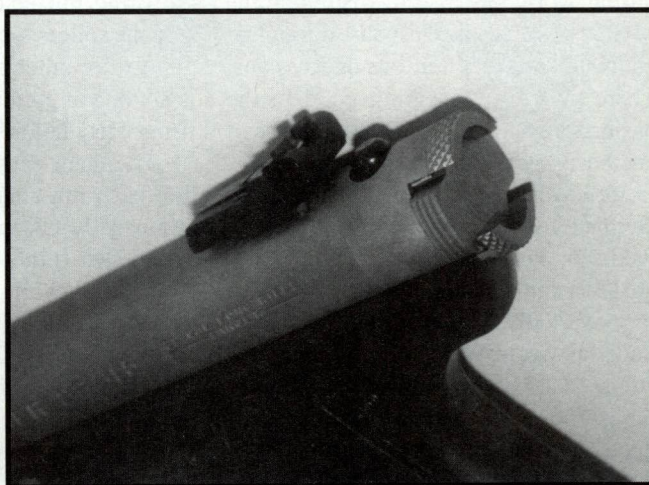
A .22 caliber LDE survival weapon and LDES suppressor. An innocuous looking keychain that packs a silent wallop...



LDE single-shot survival weapon. Rotate the band to fire it (point in safe direction, of course).



LDE disassembled for loading and cocking, next to the LDES suppressor.



JRC bolt-locking device installed on Gemtech's "Operator" suppressed Ruger .22 caliber pistol.



PENNY WISE, MACHINE GUN FOOLISH

by John D. Long

I was watching the video "Firestorm," which was produced by Delta Group Ltd and featuring Peter G. Kokalis and a lot of neat machine guns. When discussing the German MG42, Mr. Kokalis remarked, "The problem with this weapon was one of premature unlocking, and more of these guns have blown up in civilian hands than any other type of machine gun."

I was more than a little concerned when I heard this. Having taken out a bank loan, borrowed money from friends, and hoping the wife didn't notice the drop in the savings account for a few more months, it was no comfort to hear that the MG42 I was about to receive might blow up in my civilian face!

The video gave no further elaboration or explanation on the subject. Perhaps this gun was a turkey of a design and I had invested a lot of money in a Class 3 trot-line sinker. Had I bought the German equivalent of the French Chauchat? After going through a list of books too lengthy to mention in this article, my respect and admiration for the MG 42 increased rather than decreased. I learned that about the only complaint German soldiers on the Eastern Front during World War II had concerning the MG42 was that they usually ran out of ammo before they ran out of Russians. There must be something good in the basic design of the MG42, because it has been adopted for use and/or manufacture by Argentina, Austria, Denmark, Germany, Greece, Iran, Italy, Norway, Pakistan, Portugal, Spain, Turkey, Yugoslavia and a host of other countries. A fact overlooked by many is that in the midst of World War II the United States attempted to build a copy in .30-06 with the intent of possible adoption and production. Nowhere did I find any information on a propensity for these guns to blow up in service. In nations all over the globe a design does not stay in ser-

vice for more than 50 years if it has a history of catastrophic failure. Yet there is an undeniable history of MG42s in civilian hands coming apart.

My break in researching this problem came when I discussed it with two friends who have career military experience in ordinance. They pointed me in the directions of maintenance and ammunition. The key to solving the problem is understanding how the MG42 bolt is designed and the properties of some of the ammunition out there on the surplus market.

The MG42 is a masterpiece of gun design. Unlike many guns, the firing pin in the bolt of the MG42 is free floating. The inertia imparted by the forward thrust of the bolt throws the firing pin forward striking the primer of the cartridge in the chamber. There is enough delay in the action that the rollers on the bolt lock into the recesses of the barrel before the primer is struck. If an obstruction enters the firing pin hole in the bolt face, it can lodge in the firing pin channel in the bolt and lock the firing pin in the forward position. With the firing pin frozen protruding from the bolt face, as the bolt picks up the next round, the firing pin detonates the primer before the rollers lock in place causing the gun to fire unlocked. Thus the problem is not one of premature unlocking but of firing early before the bolt is locked.

The main cause of this blockage of the firing pin channel is the use of old and usually cheap ammunition. During World War II the Germans had a severe materials shortage problem. They switched from brass to steel for making cartridge cases. These cases were lacquered on the outside to prevent rusting, but they were not treated on the inside. This ammo was not intended for long-term storage but to go straight to the front. A good quantity of it is still around over 50 years after the war. The

interior of the cases, not being lacquered, has rusted. Some examples show evidence of rust on the outside. These have rusted through from the inside, and the case is often being largely held together by the lacquer. Case head separations are but one of the failures likely to happen with this stuff. When this rusty cased ammo is fired, rust and crud are scattered throughout the mechanism. Some of it can go down the firing pin channel. If the pin is locked in the rearward position, the gun will go Ka Chunk. If it is jammed in the forward position, the result will be Ka BLAMM!

When I was in the Army, I never had the luxury of firing a weapon and cleaning it later when I felt like it. In armies all over the world, weapons cleanliness is a universal tenet. Soldiers' lives depend on the functioning of their weapons and cleanliness goes a long way to assure reliability. The soldier may be grungy as hell, but his weapon better not be. As a civilian owner of a machine gun, there is no first sergeant looking over your shoulder telling you in colorful language to clean it. In the particular case of the MG42, failure to keep the bolt channel clean and the firing pin free could be disastrous.

BATF does not have a rule requiring you to fire the cheapest, oldest and dirtiest ammo through your gun. There is clean reliable ammo out there. Another viable option, thanks to firms such as Midway and Wideners, is to buy the components in bulk and load your own. Keeping the gun clean and firing good ammo will protect the life of your MG42 — and you.

MGN

Editor's Note: For further information see MGN's December 1995 interview with Peter G. Kokalis, pages 42 and 43. He discusses another potentially hazardous problem with the MG42 — firing the MG42 without the spring-loaded bolt insert installed.

Retail Prices

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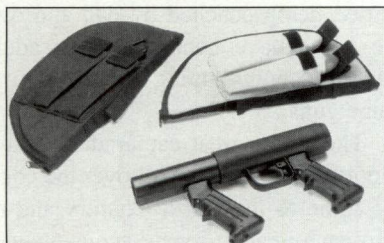
- * Pistol
- * 10-rd. Mag.
- * 30-rd. Mag.
- * 40-rd. Mag.
- * Carry Case
- * Barrel Ext.
- * Fake Supp.
- * Recoil Comp.
- * Thread Prot.

CM5 Launcher



37/38 mm twist breech single shot operation. Comes equipped with black carry case that will hold up to six flares. **\$159.95**

CM3 Slam Fire



37/38 mm operates by placing pressure on the front grip and pulling the trigger. **\$59.95**

Aluminum Adapter

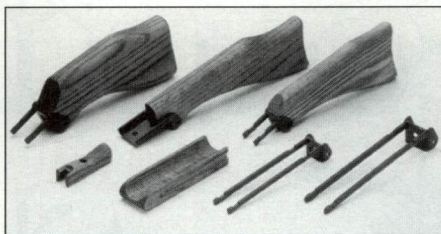
37 mm to 26 mm \$16.00

Ammunition

We carry a full line of 37 mm, 26 mm and 12 ga. ammo. Please call for pricing and availability.

Replacement Barrels

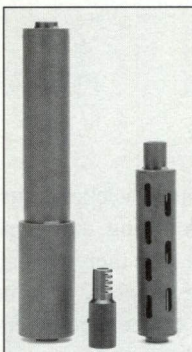
M10/45	\$40.00
MP45	\$40.00
Encom MP9	\$40.00
M10/9	\$40.00
M11/9	\$40.00
M11/380	\$40.00
M12/380	\$40.00



Left to Right, Top Row to Bottom

Wood Products

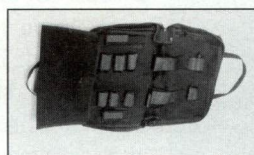
M10 Full-Auto Pistol Stock	\$29.95
M11/9 Carbine Stock	\$29.95
M11, M12 Full-Auto Stock	\$29.95
M10, M11 and M12 Grips	\$25.00
Carbine Unit Forearm.	\$20.00
M11 and M12 Stock Rail	\$17.95
M10 Stock Rail.	\$17.95
M11/9 Carbine Hardware	\$21.95



Accessories to fit MACs, Co- brays, TECs, AR-15s, AKs & many more!!!

Barrel Extensions	\$24.95
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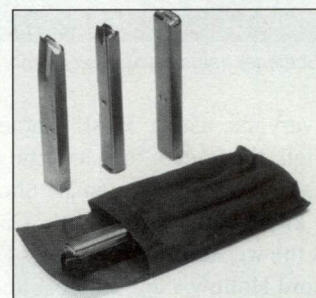
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M11 M12/380 16rd. each	\$30.00
M11 M12/380 32rd. each	\$75.00
Encom MP45 30rd. each	\$75.00
Encom MP45 40rd. each	\$75.00
Encom MP9 30rd. each	\$75.00

Mag Pouches

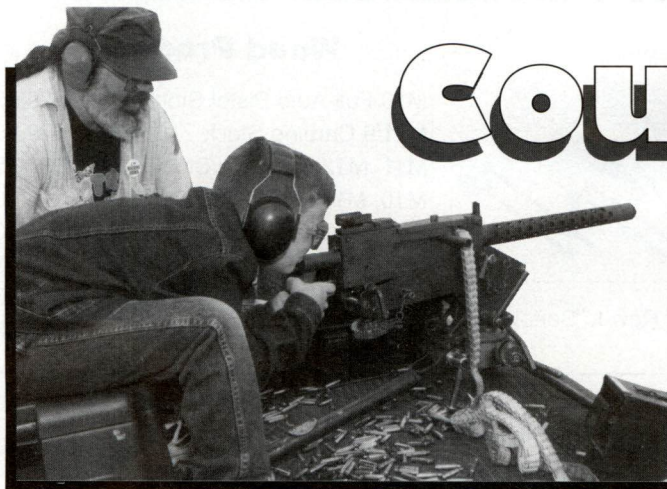
M11, M12/380-32rd. 4-cell	\$17.00
M10, M11/9-32rd. 4-cell	\$17.00
M10/45-30rd. 4-cell	\$18.00
M10/45-40rd. 4-cell w/sling	\$23.00
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The North Country Shoot



Rich Schiedel helps a youngster shoot a 1919 Browning for the first time.

by Dick Morin

Everyone had a blast! Some rain fell, the tracers flew and the dynamite blew as the Minuteman Shooting Club kicked off their North Country Shoot the weekend after Father's Day in Stratford Hollow, New Hampshire.

It didn't rain the entire weekend, just sporadically Friday morning and Sunday. However, as I've said there was an upside. The local fire officials gave us the go-ahead to allow tracers and incendiary ammo. This allowed shooters to set fire to several of the cars we were using for targets.

To begin firing sessions, the club used exploding gas bombs, a blast from the 37 mm gun on John Vetter's Stuart Tank, our trademark string of 300,000 firecrackers and a spectacular command-detonated dynamite blast along the top of our target berm.

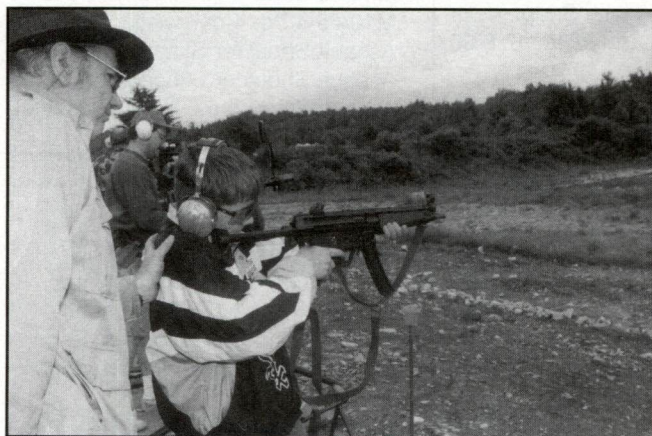
The grass was trampled in the dealers tents as shooters, spectators and customers drooled over exotic weapons and gadgets offered for sale as they walked along the aisles of tables.

We promote a family atmosphere, and it is common to see dad, mom and the kids taking their turn behind the Browning 1919. We've seen several youngsters grow up at our shoots. They started being coached by dad and over the years have become young adults thinking about buying their own machine guns.

There is a great camaraderie at our shoots. Shooters from all over the country come to the North Country and return each year to renew acquaintances. It is common to see shooters show up year after year just to see what new modifications other shooters have made



A suppressed MP40.



Jim Ballou teaches a youngster to shoot an MP5.





Browning 1919 Shorty.

to their guns, or what new exotic models some shooter has brought along.

There was the usual assortment of firearms, both belt-fed and handheld on the line this year as well as some seldom seen rarities. There were also some interesting modifications. One shooter brought along a suppressed MP40, while others had short-barreled versions of the Browning 1919 and the .30 caliber ANM-2.

Bill Vallerand was back this year shooting and sharing his knowledge of firearms with those in need of a little help.

This year Jim Ballou brought along some interesting Browning automatic rifle variants and asked other shooters to bring foreign versions or prototype models of BAR type firearms. Of course, this was research for his upcoming book, but the shooters enjoyed get-

ting a first-hand look at some of the early guns.

Our special effects crew put on several spectacular displays, including a blast Saturday that rocked the whole site. They strung six dynamite charges with detonation cord along the top of our backstop. A fifty-pound bag of lime was placed on top of each charge and the whole shebang was command deto-

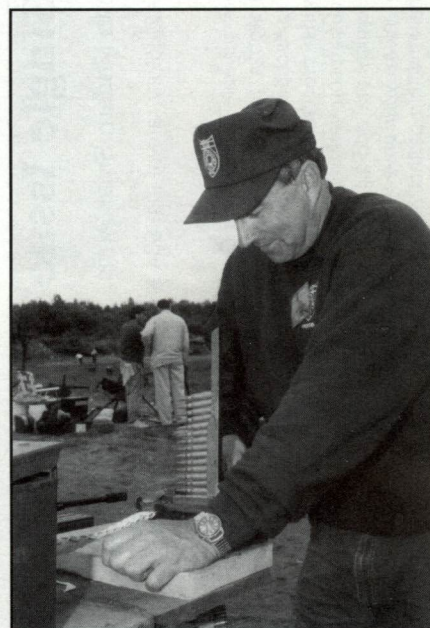
nated to start a shooting session. The effect of the blast was awe inspiring. Most shooters and spectators just stood there open mouthed in astonishment watching the dust settle. The blast was such a crowd pleaser we did it again, on a smaller scale before another shooting session.



Rodney Buais fires a 500-round belt through his M60.



John Vetter gives thumbs up after hitting a dynamite target with tank's 37 mm gun.



Bob Ward reloads belts for his Browning between relays.

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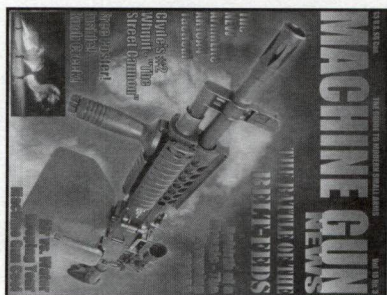
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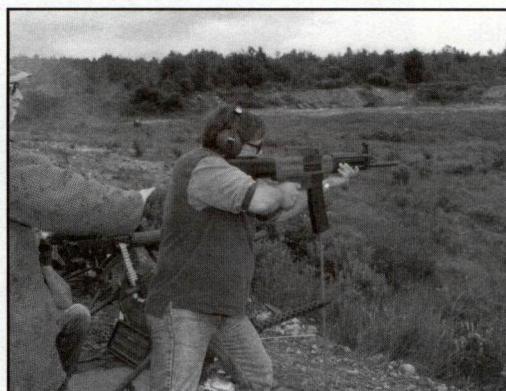


Saturday afternoon we rolled out our string of 300,000 firecrackers to the delight of the crowd, especially the kids.

John Vetter and his tank crew put on several impressive demonstrations of shooting accuracy using the 37 mm canon. His crew set up some very realistic looking fiberglass tank targets around one of our "used cars" and used it for target practice. We placed dynamite charges on the cars and he often hit them with the first shot from the big gun. Then for the rest of the firing session the subgunners got to shoot up the remains of John's tank targets. They loved it.



Grease gunner.



Full-auto 12 gauge.

Several of our regular shooters showed up this year with more than 30,000 rounds of ammo, and their guns were firing constantly through every relay. They told us they save up all year just to shoot at North Country.

We have also had many people tell us that the scenery at our site is marvelous and they look forward to the trip up north even if it is a long way from home. Others say they wish we would go back to two shoots a year because they love the area so much.

Safety is the greatest concern at the North Country Shoot and our line staff keeps a sharp eye on all shooters. We also try to provide the best possible assistance to any shooter with a gun problem. Malfunctioning machine guns are a safety concern.

Over the years at the North Country Shoot, we have found all our participating shooters to be very safety conscious and for that we thank them. They tell us that the North Country Shoot is one of the safest shoots they have attend-

ed, and for this praise we also thank them.

Remember: Safety helps insure future shoots.

See you all next year.

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Above: Bob Naess and his 1917 Browning watercooled.



Left: M79 grenade launcher.

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5.56mm (.223)	.35 rd	.30 rd	.25 rd	.20 rd
7.62Nato (.308)	.35 rd	.30 rd	.25 rd	.20 rd
.50 cal BMG	100 rds	500 rds	1000 rds	5,000 rds
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A collection of various firearms-related books and manuals, including titles like 'The Fal Rifle', 'Machineguns', 'The Dutch Luger', 'The Guns of Dagenham', and 'The Black Rifle', displayed on a dark surface. The books are arranged in several rows, showing a variety of topics from general machinegun history to specific rifle models and military equipment. Some books feature illustrations of soldiers or the weapons themselves. The titles are in different fonts and colors, with some in all caps and others in title case. The background is dark and textured, possibly a cloth or paper. The books are of various sizes and thicknesses, suggesting a diverse range of content. Some books have small images of the weapons or soldiers on their covers. The overall appearance is that of a well-curated collection of military or firearms literature.

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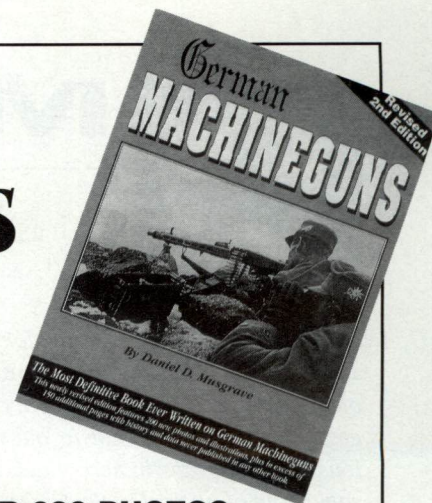
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This book relates the complete story of German machineguns and in telling that story, it points out some popular misconceptions. A few examples of such misconceptions are:

- * That Germany had 50,000 machineguns in 1914;
- * That the Treaty of Versailles influenced design;
- * That all German machinegun designs were successful;
- * That Germany developed new machineguns in crash programs, sometimes in less than a year;
- * That the output of German machineguns was falling in 1944.

Much more important than the misconceptions is the correct story, as related here. There is detailed discussion of the scientific organization of development that replaced the earlier hit-and-miss methods. There is also explanation of how interservice rivalry and ever-changing priorities affected the program. Particularly interesting is the story of how the old-line producers reacted to innovations intended to permit large-scale manufacture outside the firearms industry. It is a story of many perplexing problems, and of how they were met.

In addition to information of a historical or purely technical nature, an effort has been made to present certain facts that are of interest to collectors of German Militaria. Of particular interest to collectors is the data on accessories, some of which are relatively unknown outside Germany. While the chances of encountering these accessories will decrease year by year; it is a distinct advantage to know what to look for, and how it relates to the machinegun itself.

For a brief period the machinegun dominated the battlefield and it still has a very important role alongside the newer sophisticated weapons that capture the headline today.

This book tells the story of Germany machineguns in a manner that can be understood by the novice as well as by the expert."

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Widespread interest in all types of automatic weapons has emphasized the need for a new edition of this classic reference book, which has been out of print for many years. In this revised edition the expert and the novice, the historian and the collector, and the collector and the technician will all find authentic information which relates to their particular field of interest.

Special emphasis has been directed toward broad pictorial coverage including scenes of the guns in use with troops.

This book covers the introduction and development of machineguns in Germany from 1899 to the rearmament period after World War II. A distinct effort has been made to explain the historical continuity of the various weapons produced by government and commercial facilities. Some data is provided on accessories. In addition to a certain amount of technical description of each model, interesting background information is given on companies and individuals who were involved in the machinegun program. The text can be understood by anyone with a basic knowledge of automatic firearms.

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Mystery Photo

by Dan Shea

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

CWO John M. Miller: The Mystery Photo in MGN August 1996 is the mag-

azine for the 9 mm spotting rifle attached to the USMC-issued SMAW (shoulderlaunched multipurpose assault weapon by McDonnell Douglas Astro-nautics Co.). The 9 mm spotter tracer round used in the side-mounted spotter rifle is a much modified 7.62 NATO case (almost exactly the dimensions of the .358 Winchester) with a .22 Hornet case/operating plunger set in the rear of the .358 case. A take off on John Garand's primer actuated rifle, the hornet case moves rearward from the main case when fired and operates the bolt. The launcher itself uses prepackaged rockets that lock into the rear of the reusable front end (front having sights optics trigger, spotting rifle, etc.). Two types of rockets offered—dual mode and anti-armor. Hope this helps.

Steve Suddreth Major USMC: I have given it my best shot every month but I never quite got it right. However, for the August 1996 Mystery Photo I submit the following.

The picture is a six-shot magazine for the 9 mm spotting rifle of the MK-153 SMAW (Shoulder-launched, Multipurpose, Assault Weapon). The spotting rifle fires a tracer round that is ballistically matched to the trajectory of the 83 mm rocket. This improves the first rocket hit probability of the weapon by defining exact target range. The magazine comes preloaded with six rounds of the 9 mm tracer. These 9 mm tracer projectiles are loaded into a rifle casing, thus they are able to accommodate adequate propellant to match the range of the 83 mm rocket. The magazine and six rounds come in the shipping cap of the live rockets (six rounds loaded into one magazine per each live rocket), such that you end up with far more spotting rounds than you should ever need. But then again, can you

ever have too much ammo?

I am sure that you probably already have it but I submit the following as extra information on the SMAW.

The Assault Rocket Launcher is a smooth-bore, filament-wound, fiberglass tube that is 3.27 inches in diameter, 29.9 inches long, and weighs 16.9 pounds.

A sight mount is attached to the tube and it accommodates either the MK42 MOD telescopic sight or the night vision sight (AN/PVS-4).

You can aim the launcher using open sights, which are permanently mounted on the launcher forward and aft ends.

Attached to the lower portion of the launch tube are a front pistol grip and the firing mechanism. That firing mechanism fires either the spotting rifle or the rocket.

The spotting rifle is a simple blow-back type action (nothing fancy). The bore of the rifle rarely becomes misaligned from the bore of the rocket (despite plenty of rough handling). Most slight deviations between these two bores are adjusted for with the iron sights or the telescopic sights.

The rocket launcher is the reusable portion of the weapon system. After firing the rocket you remove and discard the encasement.

You can fire the weapon inside a building (as in city lighting), but you need to ensure that you have adequate backblast escape areas (e.g., open doors and windows or a very large room).

Other stats are as follows:

Weapon ready to fire 29.01 lbs.

Max range 400 meters

Optimum range 250 meters

Minimum range 50 meters

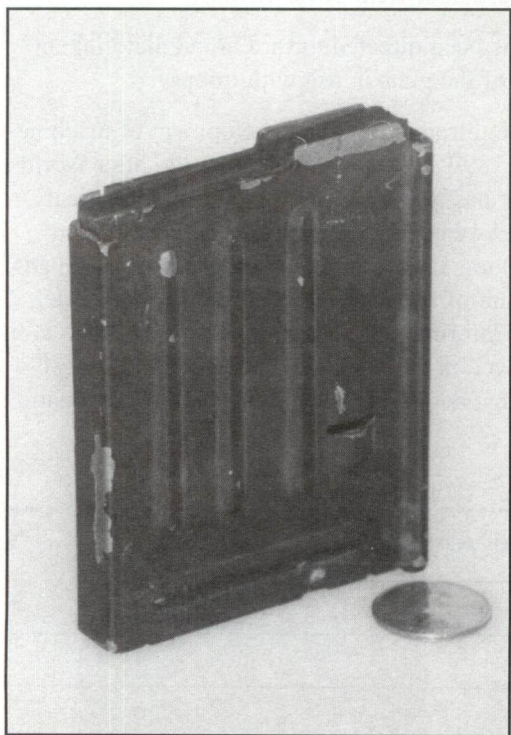
Penetration capabilities:

Brick/Concrete 12/8 inches

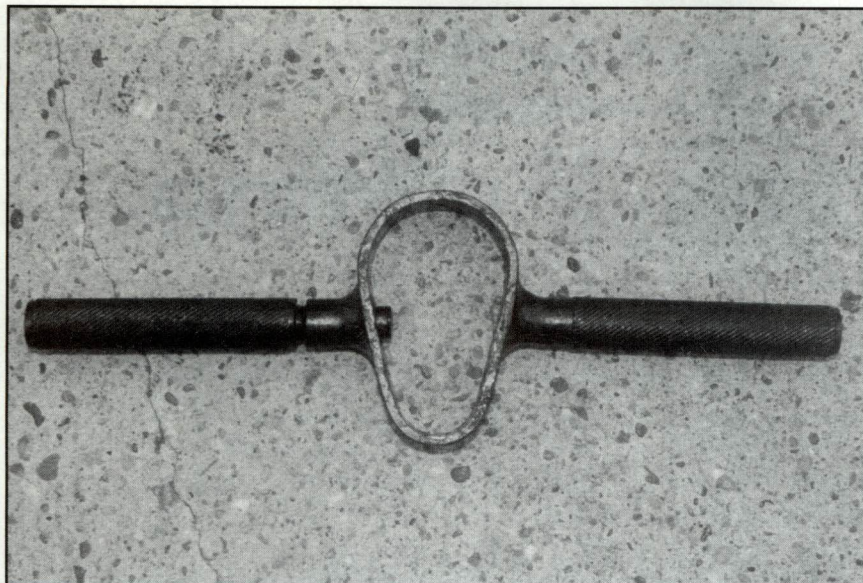
Sand bags 7 feet

Steel/Metal 1 inch

I am not sure which countries or which other services use the SMAW, but the United States Marine Corps has used it since at least the mid-80s and it has



August 1996 Mystery Photo by Jim Bonis.



October 1996 Mystery Photo.

provided pretty good service. I hope that I am correct with my photo guess, otherwise this has been a very long letter for nothing.

Thank you for a quality publication! Keep up the good work!

J. Helms: The August 1996 Mystery

Photo is a magazine for the 9 mm "spotting rifle" that is attached to the MK-153 SMAW (Shoulder-launched Multipurpose Assault Weapon). Each rocket came with one loaded magazine of spotting rounds. The rounds look like a 7.62 mm NATO necked up to a 9 mm, with a .22 rimfire used as a primer. This

is not what they are in reality; they only appear this way. The 9 mm projectile had a trace element and the same trajectory as the rocket. Due to the high trajectory of the rocket, range estimation is very critical. So the spotting rifle was used to "dial in" the range/elevation drum on the telescopic sight before shooting the rocket.

If I am awarded the "Order of the RKI," my years as a Marine will have paid off!

Order of the RKI
Honorable Mention
 Glen R. Parshall
 Baron T. Lundberg

These oddly shaped magazines show up from time to time, mystifying most of those observing the unusual angles. It certainly is the magazine for the subcaliber unit on the SMAW. The Order of the RKI is hereby awarded to the above individuals, and we want to thank them for their thoroughness in the answers. It seems to be current military experience paying off to earn the RKI this time...



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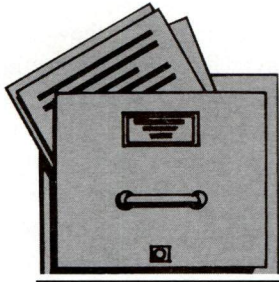
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7.62 Tokarev	High quality, Bulgarian manufacture military ball ammunition for Tokarev pistol, CZ-52 pistol and PPSH41 submachine gun. Mod. No. AMB30T. \$10.00 per lot of 100 rds., Fgt. collect. \$75.00 per lot of 1,000 rds., Fgt. collect.
7.62 x 54R	Super clean Bulgarian manufacture brass case military ball. Packed 300 rds. per tin, four tins per case of 1200 rds. Mod. No. AMB54R. \$13.00 per lot 100 rds., Fgt. collect. \$144.00 per case of 1200 rds., Fgt. collect.
8 x 56R	Rare ammo for the Steyr-Mannlicher Model 95 straight pull rifle and carbine. Mod. No. AMB56R. \$16.95 per lot of 100 rds. Fgt. collect, \$168.00 per case of 1,000 rds., Fgt. collect.
★ ★ ★ BLANKS	.303 BRITISH BLANKS Crimped, Lot of 1000 rds. Mod. No. AMBK03. \$100.00 Fgt. Collect. .50 M2 BLANKS Crimped, blanks for the .50 Browning machine gun. Late 60's to early 80's F.N. Mfg. Packed 150 rds. per ammo can. Mod. No. AMBK50. per can of 150 rds. \$113.00 Fgt. Collect.

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The Forms

by Dan Shea

New readers — “The Forms” column is a forum for discussing laws regarding machine guns and other NFA weapons. We have also inherited the discussions about the new dreaded assault rifle legislation, as well as general constitutional issues... feel free to join in, ask questions, write in to MGN, fax at (501) 525-7519, or e-mail at MGNews@aol.com.

There is always a lot going on in the Class 3 world—right at the moment, we don’t seem to have any “closure” on current issues. Those of you who have been faithfully following the “NFA Follies” will note that at present we have the Chief of NFA Branch publicly, on tape, claiming that the NFA Registry is around 50 percent off, and that ATF personnel routinely perjure themselves in reference to that. Mr. Busey quickly became the “ex” Chief of NFA Branch. In Florida, an ATF agent doing a “routine compliance inspection” showed up with a complete printout of the pertinent registered firearms and inadvertently advised the Class 2 manufacturer that her job is to “cross-check and correct the NFA Registry”.... AFTER she had obtained an “administrative” search warrant. All getout just broke loose over that one, because no SOT is required to straighten out the Registry; compliance inspections are strictly to see if the records are being properly kept by the licensee. Where this little merry-go-round is headed no one knows, but MGN will keep you updated.

The position that this author takes is that the Registry is a mess, and that in all probability people have been prosecuted with perjured testimony. Most certainly exculpatory evidence has been withheld from defense attorneys, and there is no sure way to correct the Registry without some type of amnesty.

Author Eric Larson has told us that

one of his Freedom of Information Act requests has established an important precedent. The lawful owner of a registered NFA firearm may now do an FOIA to obtain the date that ATF originally registered his or her firearm under the NFA. This means you can partially determine your firearms’ pedigree, something that has been refused to owners in the past. Eric is now working on an article that explains how he established this precedent, and how the date of original registration can enhance a firearm’s value as a collector’s item. Lawful owners of NFA firearms can send an FOIA to Mr. Robert Pritchett, Chief, Disclosure Branch, ATF, Washington, D.C. 20226. The request should (1) be identified as an FOIA, (2) include the serial number and a description of the firearm, (3) request the date that the firearm was originally registered by ATF under the NFA, and (4) be notarized to prove your identity.

Attorney James Bardwell (visit his webpage at <http://www.cs.cmu.edu/afs/cs.cmu.edu/user/wbardwel/public/>) sends in the following interesting tidbit: the Fifth Circuit has agreed to review the constitutionality of 18 USC 922(o)—the machine gun “ban on making for private ownership,” en banc. “En banc” means all the judges on the court of appeals will hear the case; there are around fifteen of them. The case in question is *U.S. vs. Kirk*. The Fifth Circuit is where the Lopez case (gun free school zones) and the Staples decision came from. The Fifth Circuit was also the only circuit court of appeals to void the Brady Law requiring any action by local law enforcement. The Kirk case at the lower court is counter to the Bownds case, which said that the federal government exceeded its authority if they tried to regulate a machine gun that had not been registered but was never in in-

terstate commerce. If the Kirk case is overturned, then the federal government will certainly appeal to the U.S. Supreme Court. The Supreme Court would then be in a position to decide if the 1986 end to accepting the making tax on machine guns left the federal government without authority regarding newly manufactured machine guns. Keep your fingers crossed.

Questions:

IN THE AUGUST ISSUE OF MGN, on page 12 you state “...is on the Curio or Relics list for those of you who live in restricted states...” Are you implying a gun (i.e. M3 Grease Gun) on this list can be owned legally in a non-Class 3 state if it’s a “curio or relic” listed gun?

Please explain. I’m sure there’s a lot of readers in non-Class 3 states who’d like to know.

Joe T.

The “Curio and Relics” states are the ones I was referring to: Minnesota, Louisiana and Missouri. Those machine guns on the Curio or Relics list are available to citizens of those states, after they go through the Form 4 process.

I HAVE A POST-CRIME BILL AR-15 type weapon. I want to make a 10” SBR out of it. Since this will now be a registered NFA weapon, does it still fall under the rules of the crime bill? That is, can I put a flash suppressor and collapsible stock on it?

Mark

If you manufacture a registered short-barreled rifle, the “assault rifle” definition and restrictions still apply. This means that the newest determination from Washington is that you can only make it for law enforcement use, or as a dealer sample—even with the SBR registration. Crazy, isn’t it? Nonetheless,

less, that is the way the law is written. If you make the 10" barrel AR-15 short-barreled rifle, and keep the bayonet lug off of it, with a barrel that is not threaded and does not have a flash suppressor, you would be alright. You would also have to keep a full stock on it or make a fixed short stock. The collapsing stock, combined with the pistol grip and the detachable magazine ability, would make this a dreaded assault rifle.

ENJOY YOUR COLUMNS AND MGN in general. Lot's of good information. That aside, I've got a not uncommon situation here in Tarrant County (Ft. Worth), Texas. It concerns the Law Enforcement Signature portion of the Form 4. The Arlington, Texas chief does not sign because it's "policy." County Sheriff Williams does not sign because it's "policy."

If it's "policy," shouldn't I be able to get this in writing stating the policy number, etc.? I'm sure none of our elected officials would quote arbitrary policy for his/her own agenda. I'm looking for recourse. I think "policy" is arbitrary. Ah, but to prove it! The item on the Form 4 is a suppressor for a 9 mm Beretta. The sheriff is an elected position whereas the Arlington chief is appointed. I am going to make sure the Texas State Rifle Association hears about our sheriff and "regrades" him accordingly. With the passage (too bad this context was not DEAD) of the "TERRORist BILL," I'm not sure the wisest thing is to press the issue, but "youse gots ta stawt sumwhars!" I'm contemplating sending the enclosed section (in box at right) of the MGDB addressing this issue except blacking over the reference to dictators (top secret, you know) and deleting the last portions immediately after "Gun control is unconstitutional as hell but is being practiced."

I have never talked to either of these people personally, it was always through a deputy or other "assistant." Maybe it's the assistant! Yeah, that's it!

Talked to Capt. Burns on 4/22/96 by phone. He indicated, "Yes, it is policy but we won't supply that to you in writing." Now what? I guess I could move.

Matt G.

Your problem is not uncommon. Floridians and Houstonites are well fa-

Law Enforcement Signature section of the Machine Gun Dealers Bible on pages 0-3 and 10-4

Getting a law enforcement signature can be the hardest part of the whole process. There has not yet been an effective challenge to a "refusal to sign" that I am aware of, although there have been quite a few cases where the signature was obtained on the brink of court. The key to the problem is in the perception of the local chief of police, sheriff, etc., that he has to take some responsibility for your actions if he signs the certification on the back of the form.

I received the following letter from Stephen Halbrook:

Dear Mr. Shea,

Your readers will be interested in knowing that the U.S. Court of appeals for the Sixth Circuit has held that a police chief cannot be sued for signing the law enforcement certification on an NFA transfer form, where the transferee committed a crime with the firearm. *Searcy v. City of Dayton*, 38 F.2d 282, 289 (6th Cir. 1994).

Ironically, this is the first documented instance where a registered machine gun was used in a crime since enactment of the National Firearms Act in 1934, and the registered owner was a police officer. The police officer pled guilty to murdering a drug trafficker, whose survivors then sued the police chief for alleged negligence in signing the law enforcement certification.

The Court of Appeals held that the lawsuit should have been dismissed without a trial:

"Although defendant (Police Chief) Newby signed Officer Waller's application to possess the Mac-11 machine gun used to kill Hileman, the record is devoid of any causation with regard to Newby's signing the application and the killing of Hileman. Therefore, summary judgment should have been granted to defendant Newby on plaintiff's negligence claim." Id. at 289.

This decision clarifies that a police official who signs the certification in good faith is not liable to be sued for damages in the unlikely event that the firearm is later misused in a crime. The decision should be brought to the attention of law enforcement officials who are reluctant to sign transfer applications for fear of being sued.

Sincerely,

Stephen P. Halbrook

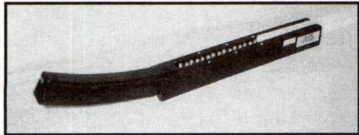
Stephen P. Halbrook, an attorney in Fairfax, Virginia, devotes his practice to litigation involving the National Firearms Act and other firearms statutes, and is author of the forthcoming book *Firearms Law Deskbook: Federal and State Criminal Practice* (New York: Clark Boardman Callaghan 1995). He has also written another book on the Second Amendment, titled, "That Every Man Be Armed" that I personally use as a reference. Mr. Halbrook is well known to the people who are involved in Second Amendment related cases. Stephen P. Halbrook, (703) 352-7276, 10560 Main St. Ste 404, Fairfax, VA 22030-7182.

All the Chief is being asked is if he has any knowledge that would make it unlawful for you to own the firearm, or if he has any knowledge that would indicate you are going to use the device for other than a lawful purpose. He is not being asked if he thinks American citizens have the right to own these firearms. They do, except when these minor dictators withhold signatures so that no one in their jurisdiction may get a Form 4 approved. There are other people who are authorized to sign: the Chief of Police in your city or town, the Sheriff for your county, the head of state police for your state, state or local District Attorney who has jurisdiction in your area, some judges if they have the power to arrest, and any other person that the Director, BATF, accepts. In some places, all of the above people are in agreement that they will not sign, or will tell you that they want the chief of police to sign so that they can cop out on signing. In this type of situation, you have an illegal conspiracy for gun control. Whether or not you have the ability to mount a legal challenge is up to you. This is a place where many people get a Class 3 license for the express purpose of enhancing a personal collection. This is illegal, according to the regulations. Gun control is unconstitutional as hell but is being practiced by these minor-league Nazi's. If you decide to get the Class 3, throw yourself into doing business to make sure you are a legitimate dealer. It's a shame that the law-abiding citizens lose their rights when these misguided people think up a "feel-good" solution to the crime problem. Keeping law abiding citizens from owning NFA firearms isn't going to avoid one single crime, and it will erode our free country.

Fight these bastards at the polls.

Individuals can take part in almost all of the activities of the Class 3 world, in some form or other. Earlier in this chapter I went through many of them. Please check out the appropriate forms and sections of this book for more information, and especially the chapter on Class 3's.

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miliar with the "I won't sign a Form 4 for a machine gun because it's our policy not to sign." Essentially what this is, is conspiracy to deprive you of your constitutional right to own a firearm. Machine guns are not politically correct, and they LOVE to get you in public and ask, "Why would a reasonable person want a machine gun?" That is why most people don't pursue it when stalled by the public officials. The only recourse is to have enough money to sue them to get them to do their duty. If your state has a constitutional right to keep and bear arms, as in "Each citizen has the right to keep and bear arms and that right shall not be infringed," you would be golden for a lawsuit. Due to the ambiguity in Supreme Court cases regarding firearms, anti-Second Amendment proponents can play these games.

It takes money and some righteous indignation to beat these folks. You are going to either have to come up with the money to pursue a lawsuit, or move to a more friendly area...or, work to vote these people out of office.

DO YOU KNOW OF ANYONE having brought Wilson Arms Witness Protection guns or Ithaca Stakeout guns (NFA-registered AOWs) into California? California law provides that citizens may own AOWs, but another section of the Penal Code dealing with short-barreled shotguns prohibits the ownership of smooth-bore shot pistols firing a fixed shotgun shell. Query: Does this prohibition conflict with the AOW exception for NFA-registered firearms or does it only apply to unregistered firearms? I have not been able to find any caselaw or attorney general opinions on the subject and no one at DOJ has been able to provide meaningful input. Your thoughts?

Hope things are going well for you. The weather in San Diego is, of course, perfect. Just thought that you would like to know.

Charles K.

Sitting here in the Maine fog and rain, I just love hearing that your weather is "perfect." I suppose that's relative....

California has different licensing requirements for machine guns, tear gas weapons, and short-barreled shotguns. It is necessary to have a license to pos-

sess one of these. I am going to appeal to our more knowledgeable California residents to fill us in on the procedures involved. Once I get the responses, I will post them here.

IN YOUR RECENT ISSUE Volume 9, No. 1, page 67, a table shows 4,373 SMGs are registered in New York state. I presently am a resident of NYC, a police officer near retirement and love machine guns. I was told by many dealers at Pennsylvania gun shows that I would have to move to a Class 3 state to own an SMG. New York doesn't allow machine guns. What is the truth?

Robert F.

Actually, in the state of New York, you are sitting in a pretty good position to own a machine gun. "Peace officers," which definition includes police officers and firemen among others, may own machine guns. You have to go through the transfer process of course. Other machine guns that are legal in New York are what is referred to as "Dewats," Deactivated War Trophies, that cannot fire and are legally registered with the federal government. Many other machine guns are legal in New York according to federal law due to having been registered during the 1968 Amnesty, but these are usually in violation of state law. Through a quirk in the amnesty and tax laws, the federal government cannot legally supply the names of the amnesty machine gun owners to state officials.

In order for you, as a police officer, to own a machine gun while you live in New York, you would need to find a Class 3 dealer in your state (there are some) and file a Form 4 tax paid, including the signature of the local law enforcement chief. It should be approved. If not, you may have to get a copy of the state law in order to do so.

FELLOW SUFFERERS, GOOD news—has a precedent been set by the BATF? Get a copy of ATF P 5300.4 (10-95), *Federal Firearms Regulations Reference Guide* and turn to page 85 and read "ATF Rul. 85-10." In this ruling, the BATF used "congressional intent" to base their decision! How novel. If we extrapolate from this ruling, then BATF must use the original congressional intent from 1787 and 1791 when the con-

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stitutional and the Bill of Rights were discussed in Congress, when "deciding" on all firearms rulings. What say ye?

Don S.

I like the way you think, Don. Not that it is likely to do any good right now, but I do like the way you think. Ruling 85-10 has to do with importing receivers or frames of firearms that are on the Curios or Relics list. ATF took the position that since Congress only mentioned complete firearms that had collector value, they did not intend for the importation of incomplete firearms or receivers only, even if they were of firearms on the Curios or Relics list. As has been noted before, "congressional intent" is only alluded to if it supports the position of the person who is trying to stop some type of firearm activity. I agree with you. If we went with "congressional intent," taxes would still be collected on machine gun manufacture for private ownership, or better yet, there wouldn't be any restrictions other than punishment fitting the crime for abuse of the right to keep and bear arms.

I LIVE IN CALIFORNIA AND I'M in the National Guard. Does this allow me to own a machine gun? Does this count as "the military?" What would be a way of making a 1919 parts kit semi-auto and legal to own in California? Would it have to be hammer fired? Thanks for putting out such a great magazine?

Forest M.

Well, you are "in" the military, you are not "the military." This distinction means that you may possess a machine gun as part of your official duties as military personnel, but in the state of California, you cannot personally own it. Nice try, and there are some places where that logic works. Washington State's laws have been interpreted in that way in the past, which allowed members of the National Guard there to personally own machine guns, but that is not the current interpretation.

Regarding the 1919 Browning as a semi-auto, this is not a simple thing, and we have gone over this before so I won't belabor it. It must not be made from an existing machine gun (in this particular instance, you cannot have an original right sideplate), original machine gun parts cannot be readily installed to

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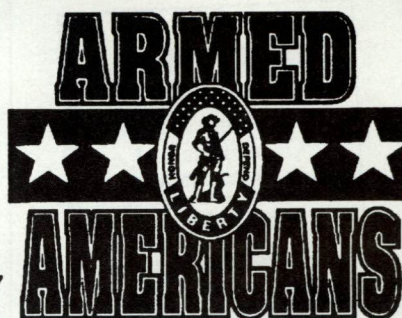
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make it a machine gun, and the design must not be readily convertible to full auto. Some suggestions are to make a floating firing pin/hammer set-up. Unless you are a combination gunsmith/machinist, it would probably be much more cost-effective to purchase one of the guns that are already out there. If you are going to do it yourself, I suggest that you start a conversation with Technology Branch, ATF, as soon as possible—you want your design to be approved.

I LIVE IN NEW YORK.... A QUESTION for you.... Can I build a short-barreled rifle? I'm thinking about putting a short barrel on an Uzi carbine. Don't ask me why, I just want something different. Can't own most fun stuff in NY. If I can legally do it, would it be possible to someday change it back to a regular rifle or is it "once an SBR always an SBR?"

Vic

You can remove a registered short-barreled rifle from the registry by filing a letter with NFA Branch, telling them that you are removing the barrel from the firearm and your possession. Regarding the State of New York, technically you could. Practically, that is another matter. Why don't you get a Form 1 to manufacture a firearm, and see if you can get the law enforcement certification signed...then we'll take it from there. I think you are going to get stonewalled in Washington D.C.

AS A SUBSCRIBER I READ WITH interest the letter in the July issue of MGN from the FFL and Class 3 owner (S.T.G.) who has run afoul of BATF regarding the Beretta 950 in wallet holster. This subject also came up in a machine gun class I conducted this past weekend. As a firearms instructor I found this quite disconcerting since many holsters/devices designed to conceal a pistol could fall into this category. I agree with your assessment that these items are, in fact, simply concealment rigs for pistols. If the 950 holster is in question, what of ones designed for derringers and J-frame revolvers? Or women's purses from within which a revolver can be fired? Or police/security holsters still in use by some, where the trigger and trigger guard are exposed? A

round could be fired from such duty rigs while the gun is still holstered. Our local Class 3 dealer, who assisted in our recent class, suspected that BATF is applying the same rationale as used in briefcase set-ups for MP5, MAC 10, etc. Do you think so? It does grow tiresome of playing a "game" with someone who constantly and arbitrarily changes the rules. Thanks for a very informative publication.

Robert S.

I suspect that this case is a "test case" that is being used by the ATF to see what the ruling will be. Too bad it has to screw someone's life up in the process. On the same lines, read the next letter.

I READ THE LETTER FROM S.T.G. in "The Forms" in your July issue with great fear and trepidation. The risks associated with being an FFL holder are quite significant!

I was also wondering what the status would be of a pistol in a paper bag; you most assuredly could shoot it while it was in the bag and the bag would also conceal it. Then, how do you register a paper bag as an AOW?

Gulliver S.

Using a metal plate like Glock does? I don't know where we draw the line between being silly and being serious here. There are so many potential "AOWs" out there that, if the wallet holster is successfully prosecuted as needing registration, it boggles the mind. This reminds me of a Class 2 friend who makes suppressors and has an indoor 100-yard range made out of 15-foot pipe. He was considering filing a Form 2 registering it as a suppressor, perhaps the world's largest, because of the sound reduction every time he fires a weapon in it. I want to see his Form 2: Model? "Range," Caliber? "All," Overall Length? "100 yards."

I AM WRITING THIS LETTER OUT of anger. It seems BATF/NFA is broke. I cannot ever get my examiner on the phone about transfers.

It was told to me that the FBI messed up a couple of batches of fingerprint cards and NFA has not gotten them back. I just called and everybody is working on a "special project" and no one can talk to me.

In the last 3-4 weeks, I called NFA Branch 15 + times. At 2 p.m. their time she is still "out to lunch," 4 p.m. she is gone, she's off every other Friday, she's off a couple of days. The other 8-10 times I called, she is not at her desk. The last 2-3 times the person answering the phone just leaves me on hold until I get tired and hang up. I have never seen anything like this in my life. Are they doing this on purpose for some reason? Would like to know if you know what is going on.

Charles S.

I wish I knew. Charles, this is the atmosphere that Class 3 owners and especially dealers work under all the time. There are professional people at NFA Branch. However, I do not believe that they have an adequate amount of properly qualified and trained personnel there. I am somewhat alarmed at your comments regarding the "FBI messing up some fingerprint cards." In the light of the recent "shredding of NFA forms" incidents, the loss or destruction of fingerprint cards would be very upsetting. One wonders if the "special project" that was referred to was an attempt to straighten out the NFA Registry....

I RECENTLY WROTE TO YOU about my AR-10 problem, and I just purchased 40 demilled DUTCH AR-MALITE receivers that were saw cut. I talked to FFL dealers in my area, and they all told me that since these receivers DON'T have serial numbers that it would be legal to reassemble them. Is this true? These are full-auto receivers that have a semi-auto selector welded in place with a washer. Now if this is legal for me to do, am I required to weld up the sear holes? If I sell these, do I have to transfer them through an FFL? I've talked to people back east that do this kind of work, and I've been quoted \$350 to reassemble one receiver. I haven't been able to locate any other manufacturers that are good enough to reassemble these. Do you or your readers have any suggestions? I would be willing to trade work for receivers if there was a competent person out there. You can pass on my address to any interested persons.

Randy W.

Well, here is a problem situation. From the top: "saw cut" receivers prob-



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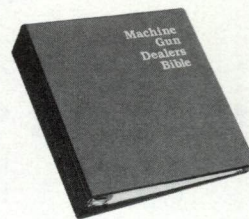
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Second, if you are making firearms for yourself, you are alright. Since you want to make them for resale, you need a Type 07 FFL, Manufacturer of Firearms Other Than Destructive Devices. This is obtained by filing a Form 7 with \$150 for three years. You also need to register under the Arms Export Control Act of 1976, which costs \$250 per year. Each firearm that leaves your possession has to either go to an FFL dealer or be signed out on a Form 4473 to an individual. You cannot ship firearms interstate to individuals. They must go to another state through a qualified FFL holder.

Third, you need to weld up the sear holes BEFORE you assemble the receivers. If you do it AFTER, they were machine guns for a short period of time.

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Questions to:

Dan Shea, C/O MGN
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Model "1" Sales, Inc.

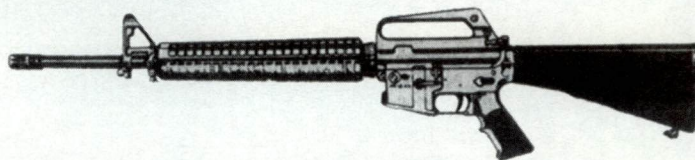
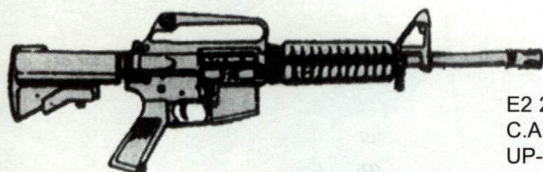


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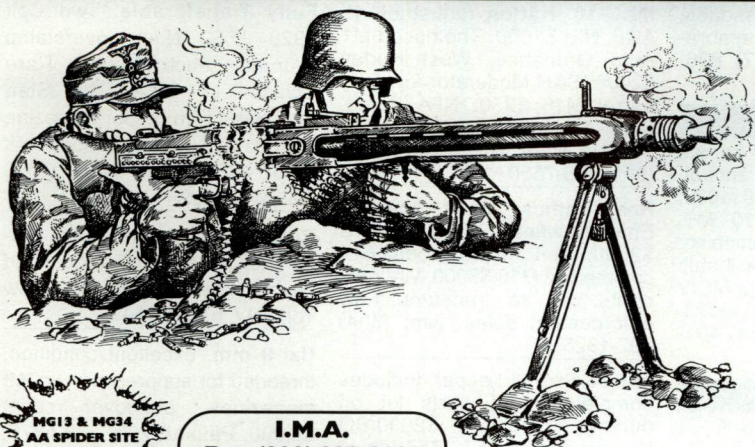
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Belgium 1 January 1945

"Army Corporal William Tusintini of Sparks, Nevada, 5th American Division, checks his snowbound .30 cal. machine gun." As with any machine, the M1919A4 Browning air-cooled gun was prone to malfunction when exposed to abuse by the elements. The cloth feed belt was particularly troublesome, leading to later standardization of metal links. Credit: U.S. Army Signal Corps/National Archives. Copyright © 1996 ROBERT BRUCE PHOTOGRAPHY *Note: Robert regrets that he cannot handle individual requests for photographs. However, publishers and documentary film makers, etc., are encouraged to contact him for information on use of archive images. Send a self-addressed stamped envelope and details on intended use to **ROBERT BRUCE PHOTO, P.O. Box 482 MGN, SANDSTON, VA 23150.***



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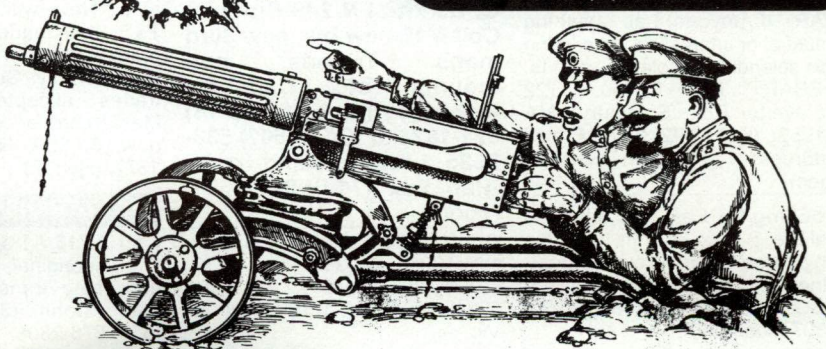
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BAR Info: I am researching to write the definitive book on the BAR. If anyone has anything unusual or interesting concerning this splendid rifle, please send to: REBAR Jim Ballou, 122 Lafayette Rd., Salisbury, MA 01952. (617) 592-3994. E-mail address: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

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MAC-10, Hatton Industries 45 ACP, NIB \$1000. Thompson M1 Auto Ordnance, West Hurley \$2000. S&H Moderator for short barrel M16 \$250. NFA Rules. Semi-Auto Norinco 86S AK-47 Bullpup, Rare, NIB \$1200. Mike (941) 465-7500 M-F.

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FULLY TRANSFERABLE 125

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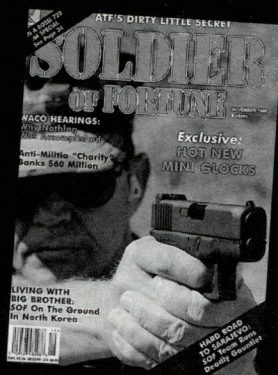
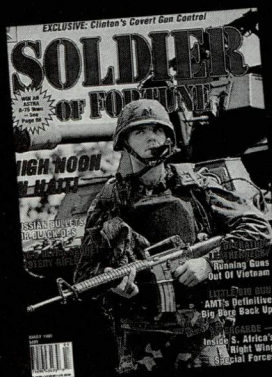
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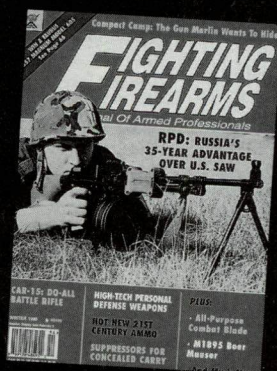
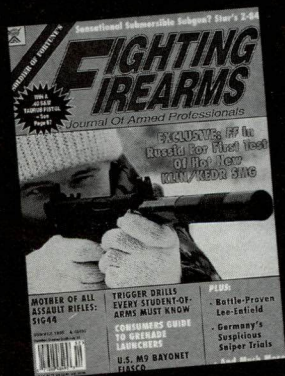
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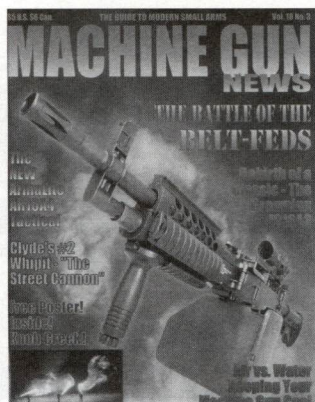
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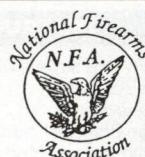
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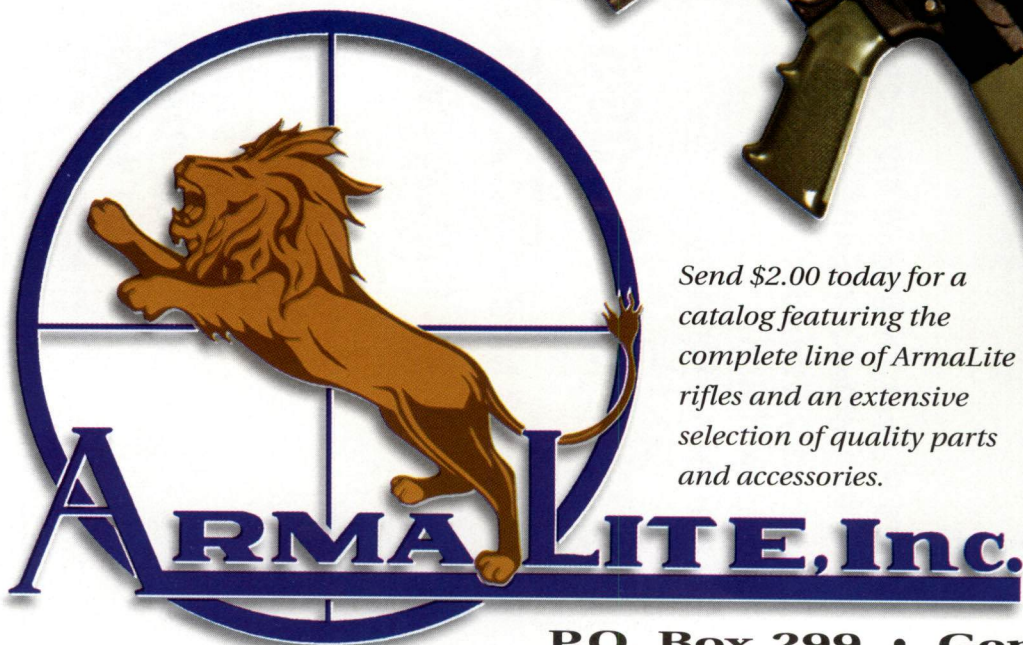
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