

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

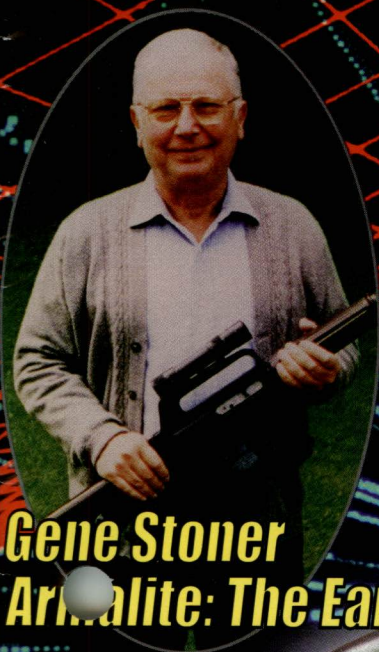
THE MAGAZINE FOR FULL AUTO ENTHUSIASTS!

Vol. 9 No. 9

# MACHINE GUN NEWS

FEBRUARY 1996

## The Stoner Chronicles



**Gene Stoner**  
**Armalite: The Early Years**



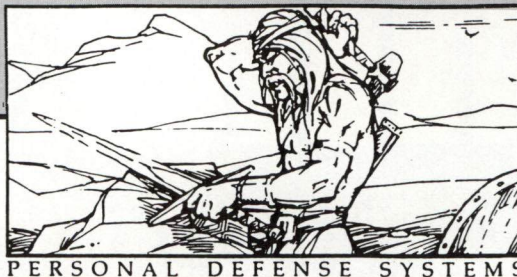
**A Rare Italian SMG**  
**The FNA Model X4**

**Nebraska's Fun**  
**and Freedom Shoot**

**Sound Technology's**  
**NEW Ruger 10/22**  
**Compensator**



# LONG MOUNTAIN OUTFITTERS



**SELLERS:**  
**GUNS, PARTS &**  
**ACCESSORIES FOR SALE**  
**CALL L.M.O.**

**BUYERS: LOOKING FOR**  
**GUNS, PARTS &**  
**ACCESSORIES**  
**CALL L.M.O.**

## Brokered Weapons

MG891 - Hard Times 9mm Uzi  
MG892 - Colt M16A1 as new  
MG893 - Colt M16 carbine 14.5"  
MG894 - Hard Times AK 47 in 7.62x39  
MG610 - Steyr Aug 20 in Green  
MG561 - Steyr MPI-69 pre-86 Dealer Sample  
MG739 - Colt M16 w/ 14.5 in bbl  
LMO13 - Madsen M50 pre-86 Dealer Sample  
MG805 - Springfield SAR 48 as new  
MG966 - MP5K Mint Pre 86 d/s  
MG960 - Galil SAR .233 post 86  
MG071 - FN Model D pre-sample  
MG072 - 1941 Johnson pre-sample  
MG074 - Madsen 1950 reg. rec.  
MG081 - Celco PPS - 43 reweld  
MG077 - British MK 1 Lanchester  
MG084 - S&H Arms Ingram model 6  
MG203 - 45 cal Micro Uzi like new  
MG511 - Uzi 45 new in box  
MG522 - FNC Paratrooper folder  
MG560 - Steyr Aug Dealer Sample  
MG895 - HK MP5A3 by S&H as new  
MG896 - HK MP5 SD w/ reg receiver  
MG962 - Sendra XM15E2 mint shape  
MG897 - Ingram suppressed in 380 cal  
MG898 - Ingram w/spr in 9mm  
MG890 - Aug w/ sear as new  
MG910 - A/O W. Hurley 1928A1 neat shape  
MG949 - Colt M16 in 97% condition  
MG963 - Ithaca SBS w/ 13 1/2" bbl.  
MG964 - 45 caliber Uzi bolt (only)

SBS08 - Cruso W 12ga Short bbl shotgun  
MG173 - H&R M16A1 reweld  
MG497 - S.W.D. M11A1 New in Box  
MG039 - Sidarme 1915 Chauchat  
MG040 - Madsen M50 by S&H Arms  
MG041 - VZ 58 folder, have pair  
MG044 - Zastavia 56 Original  
MG580 - H&R 008 Pistol new, reg. rec.  
MG693 - Auto Ord 1928 w/ Lyman Sights  
MG065 - N. Korean PPSH41 w/ org drum  
MG097 - 1918 Marlin Rockwell mint  
MG825 - R.P.B. M1 Carbine  
MG822 - Smith & Wesson Model 76  
MG824 - AR 18 Armalite Original  
MG846 - Fleming G3, HK91 conversion  
MG843 - Fleming FN FAL test fired only  
MG848 - Fleming FNC w/ col stk  
MG851 - Suppressed Browning rifle  
DD001 - Solothurn S18 - 1000 Museum Quality  
MG066 - Universal U.S. Carbine  
MG067 - M78 Valmet Like new  
MG069 - Beretta 38/42 reparked  
MG823 - 1928 Colt drum & mag neat  
MG860 - H&R Arms M6-14 w/ 1 mag  
MG858 - Fabrique FN G1 good shape  
MG850 - Fleming MP5A3 in 90% cond  
MG845 - Fleming G3 new call for info  
MG833 - Walther MPL dealer sample  
MG832 - Group HR4332 post-86 sample  
MG853 - Colt M16 carbine 14.5" bbl

## Coming in Soon

Beretta PM12S, pre-86 DS	Hard Times UZI, 9mm	Celco AK 47 in 7.62x39	Sendra M16
Rock Island M60, real neat piece	Colt M16A1, as new	H&K M21, belt-fed	Ingram in 9mm or .380 cal.
H&K MP5 Springfield, post-86	Beretta PM12S, post-86 sample	HK MP5A3 by S&H, as new	Browning .22 cal., supp. rifle
sample	Colt M16 carbines	HK MP5 SD w/reg. rec.	Galil SAR in .223, post-86 sample

**All seller info remains confidential. BUYERS call with your needs; we'll cross with our list from dealers. All weapons preinspected before final transfer from L.M.O.**

**Dealers get FFL on file & call for prices.**



P.O. Box 45, Harmony, ME 04942  
(207) 683-2169 ■ Fax (207) 683-2172  
Class 10  
LMO4MGS@AOL.com



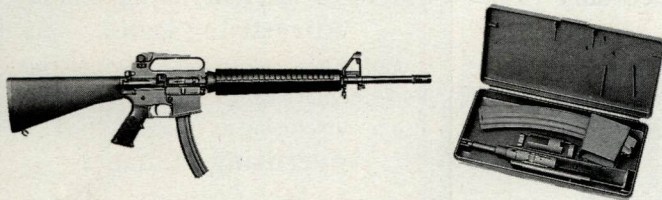


# Jonathan Arthur Ciener, Inc.

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 "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 "HOHREIN" .22 LR Conversion Kit for

### Mini-14/AC556

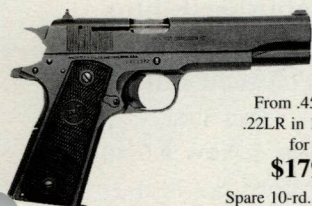
\$119.00 w/10-rd. mag. \$159.00 w/30-rd. mag.  
Spare 10-rd. mag. \$23.00 Spare 30-rd. mag. \$59.00  
Standard kit fits serial number prefix 181 thru 187.  
Prefix number 188 kit, add \$10.00. AC556 uses standard 30-rd. mag. kit.



The "CIENER"

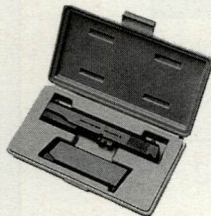
### 1911A1 .22LR CONVERSION KIT Patented

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

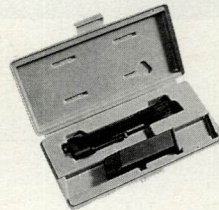


From .45 ACP to  
.22LR in 10 seconds  
for just  
**\$179.00**

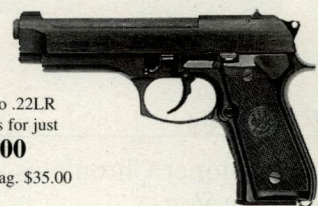
Spare 10-rd. mag. \$35.00



Kit 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

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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 pistols kits can even use Hyper and Standard Velocity.

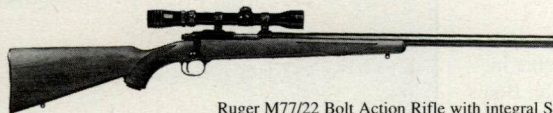
Order direct: No FFL required. Send Cash, Certified Check, Money Order or C.O.D. Personal check orders held two weeks to clear.  
Include \$5.00 shipping per kit. Due to limited quantities, handgun kit orders are prepaid only.

## Jonathan Arthur Ciener, Inc.

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"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  
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Shipping

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

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### CURRENT RETAIL PRICES EFFECTIVE JANUARY 1996

RUGER MARK II Pistol with Suppressor . . . . .	\$499.00
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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 . . . . .	\$399.00
BROWNING BA22 .22LR Auto Rifle with Suppressor. . . . .	\$575.00
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 . . . . .	\$715.00
REMINGTON 700 BDL Varmint Rifle w/Suppressor and Barrel cover. . . . .	\$995.00
Suppressor and Barrel Cover fitted to your Heavy Barrel . . . . .	\$495.00
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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

WANTED: PARTS FOR MINIGUN and MK19 Mod. 3 GRENADE LAUNCHER

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# Machine Gun News

THE MAGAZINE FOR FULL-AUTO ENTHUSIASTS

Volume 9 Number 9

February 1996



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On the Cover: Eugene Stoner holding Dutch Transitional AR-10 with AI scope. Serial Number in 4xxx range. Gene Stoner photo from the Reed Knight Collection other photo on cover by Jim Bonis.

*Machine Gun News* is published monthly to serve as a forum for Class 3 dealers and machine gun enthusiasts. We feel it is important that dealers and collectors have a source for new products, news and information involving Title II firearms.

### Advertising Rates

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

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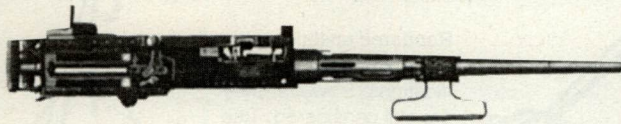


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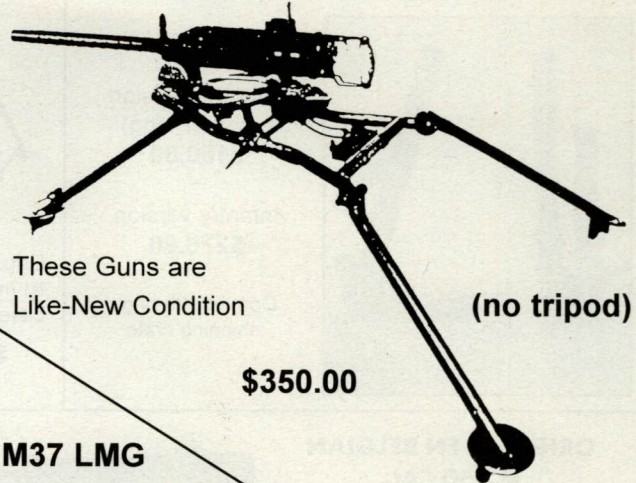


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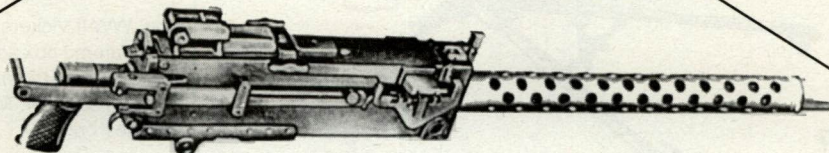


These Guns are  
Like-New Condition

(no tripod)

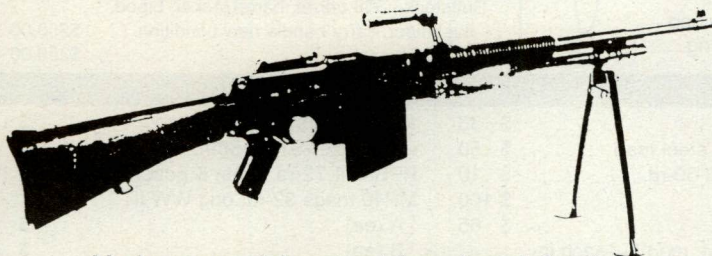
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## THE BROWNING M37 LMG



**\$950.00**

## FN-MOD D LMG IN .308 CAL.



Made on special contract from Israeli Gov't. New

**\$550.00**

## LAW ENFORCEMENT ONLY

**CLASS III DEALERS &  
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**All Firearms in Excellent  
Functional Condition**

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In Great Condition  
w/one stick mag

**\$450.00**

**Original G.I. 50-rd. drum  
available additional  
\$300.00**

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In VG+ Condition

**\$250.00**



**\$250.00**

**SWEDISH K EXCELLENT CONDITION**

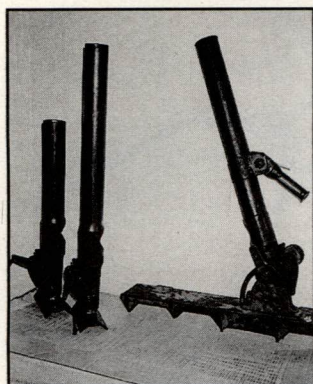


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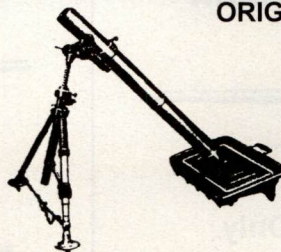


Airborne version  
(short or long)  
**\$150.00**

Infantry version  
**\$275.00**

Comes with orig.  
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## ORIGINAL WWII MORTARS



Orig. WWII Stokes-Brandt  
81 mm Mortar complete with  
baseplate and bipod

**\$750.00 + shipping**



Orig. WWII Russian 82 mm Model 37  
complete with baseplate and bipod

**\$450.00 + shipping**

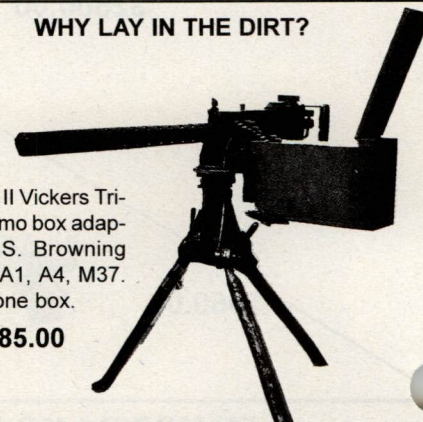
## ORIGINAL FN BELGIAN M2 50 CAL.



**FN Belgian M2  
50 Cal Gun Only  
\$3750.00**

FN Belgian  
Complete M2 50 cal.  
parts set no cut parts  
**\$1,550.00**

## WHY LAY IN THE DIRT?



Orig. WW II Vickers Tri-  
pod w/ammo box adap-  
tor for U.S. Browning  
BFMG 17A1, A4, M37.  
Includes one box.

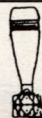
**\$385.00**

## 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. part set only	\$ 450
ANM2 Spade Grips front & rear ground sights	\$ 550
ANM2 .308 conversion parts set	\$ 550
M1A1 Thompson U.S., G.I. Grade A	\$ 250
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MAT 49	\$ 200
MAS 38	\$ 200
Italian WWII Breda Model 30 6.5	\$ 550
Beretta Model 38/44	\$ 135
MAG 58	\$4500
PPS 43	\$ 150
Madsen Model 46, .30-06	\$ 225
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Grade B	\$ 350
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1928A1 Bolt compl. U.S., G.I., N.O.S.	\$ 150
1928A1 actuator U.S., G.I., N.O.S.	\$ 85
PPSh41 w/stick mags	\$ 285
ZK383 excellent cond. with bipod	\$ 250
Less bipod	\$ 200
Swedish K, excellent condition	\$ 250
MG15 orig. German WWII	\$1350
FN-30 in .308 comp. less right side plate, very good condition	\$ 285

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**U.S. 60mm inert HE  
mortar round**  
Comp. w/fins exc. cond.  
**\$12.50 + shipping**



## 1919A6 Conversion

Buttstock, .308 barrel, barrel jacket, bipod,  
flashhider, carry handle new condition . . . \$350.00  
W/30.06 barrel . . . \$250.00

## Magazines

ERMA EMP 30-rd.	\$ 35	PPSh 41 Mags 30-rd.	\$ 35
MAC10 9mm 40-rd. steel mag.	\$ 50	Lanchester-STEN 50-rd. mags	\$ 55
M3 U.S. .45 cal. SMG 30-rd.	\$ 10	PPSh 41 72-rd. drum & pouch	\$ 100
12 for	\$100	MP40 mags 32-rd. orig WW II	
ZK383 30-rd	\$ 65	A (ea)	\$ 55
Madsen .30-06 30-rd. mag 5—each in original carrying can	\$ 75	B (ea)	\$ 30
FND BAR .30-06	\$ 15	10 for	\$ 250
L2A1 30-rd., unissued cond.	\$ 75	Reising 30-rd. new-made, guaranteed	\$ 55
MP41 32-rd., very good	\$ 55	Sterling 45-rd. exc. plus	\$ 55
MP38/40 flat side mag	\$ 55	10 for	\$ 500
Bren 8mm 20-rd. mag	\$ 65	Orig. WWII Thompson 50-rd drum, excellent plus 95%	\$ 300
PPS 43 mags 30-rd. (ea)	\$ 35		

## Accessories

Vickers headspace disassembly tool	\$ 85	MG3 complete bolt	\$ 400
Vickers brass tab reloadable belts	\$ 50	MG3/42 .308 barrel 4140 Steel H.T.	\$ 250
Vickers MKI tripod, new condition	\$ 250	1919A4-A6-M37 IMI Mfg. .308 Cal. new unissued barrels, chrome-lined (ea.)	\$ 100
FND Barrel .30-06	\$ 100	2 for	\$ 170
FND Barrel 8mm	\$ 200	3 for	\$ 250
FND Barrel .308 cal. excellent	\$ 250	1919A4 IMI .308 cal. links, new in wrap 2,000 for	\$ 75
1908 Maxim sled mount top strap	\$ 250	10,000 for	\$ 75
1908 Maxim steam condensing hose	\$ 100	1919A4 .30-06 barrels, used	\$ 100
Orig. Bren mag. chest with 12 mags new unissued ea.	\$ 35	5 for	\$ 100
M2 30 cal. tripod pintle T & E UK mfg.	\$ 350	1919A4 .30-06 barrels, new	\$ 50
MG3 MG42 .308 Conversion set barrel, flashhider, top cover, feed tray, Rheinmetall Mfg.	\$ 850	3 for	\$ 100
MG3 100-rd. assault box	\$ 100	Orig. Vickers left-side plate	\$ 200



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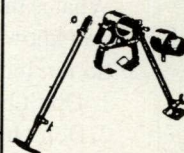
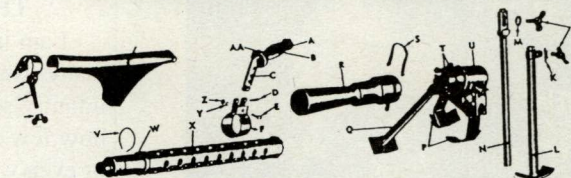
## \*\*COMPLETE MG34 .308 CONVERSION KIT\*\*

\$650.00



.308 chrome-lined barrel & bolt bomb.  
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

## COMPLETE 1919A6 CONVERSION KIT



**1919A6  
FLASHHIDER  
BOOSTER**  
\$75.00  
Very Rare!!

1919A6 conversion  
buttstock, .308 barrel, bar-  
rel jacket, bipod, flashhider,  
carry handle new condition  
**\$350.00**  
With .30-06 Barrel  
**\$250.00**

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

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

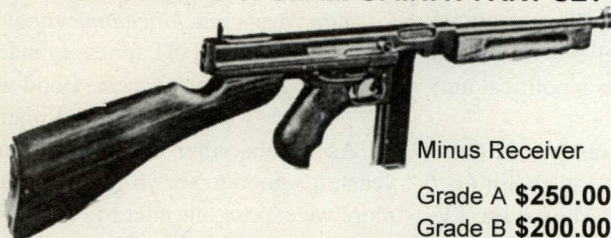
These still function in 8mm & .30-06

## 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**

## ORIGINAL U.S. G.I. MFG. M1A1 PART SET



Minus Receiver

Grade A **\$250.00**

Grade B **\$200.00**

## COMPLETE PPSH 41 PARTS SET



Minus RECEIVER with Drum Magazine **\$325.00**

With 2 stick mags **\$285.00**

Extra Drums \$100.00 Orig Sling **\$20.00**

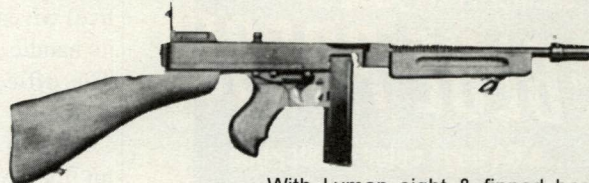
Individual parts sold separately, call or send S.A.S.E.

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

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

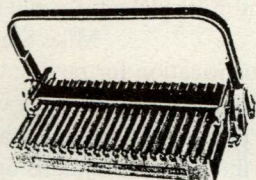
Grade A **\$450.00**

Grade B **\$350.00**



Orig. WWII G.I. issue  
50-rd. Drum  
Exc. plus cond.  
**\$300.00**

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



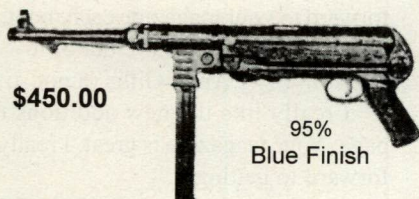
Browning M3A1 .308 cal.,  
link loading machine, com-  
plete with 2000 new-in-wrap  
IMI .308 Links  
**\$275.00**

## ORIGINAL WWII

### \*\*MG 34 ACCESSORIES\*\*

- |  |          |
|--|----------|
| Hot barrel pad. . . . .                              | \$ 25.00 |
| Flashhider soaking can . . . . .                     | \$ 75.00 |
| Firing pin (new cond.) . . . . .                     | \$ 20.00 |
| Firing pin spring . . . . .                          | \$ 10.00 |
| Bag of 20 orig. rubber<br>flashhider covers. . . . . | \$ 10.00 |
| Small parts cleaning brush . . . . .                 | \$ 10.00 |
| Disassembly spanner wrench . . . . .                 | \$ 15.00 |
| Barrel carrier w/sling . . . . .                     | \$ 45.00 |
| MG34 orig. transit chest . . . . .                   | \$150.00 |

## FINEST CONDITION YOU WILL EVER BUY Original WWII MP40 Parts Set



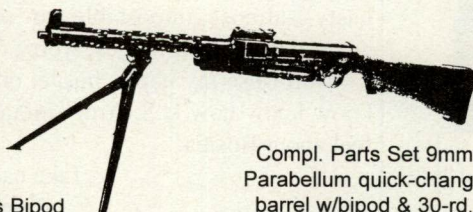
**\$450.00**

95%  
Blue Finish

Very Good  
Condition

Limited  
Quantity

## CZECH MOD ZK 383

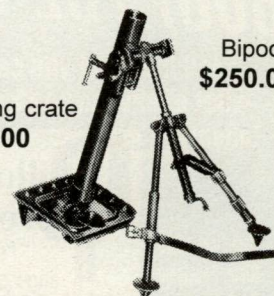


Less Bipod  
**\$200.00**

Compl. Parts Set 9mm  
Parabellum quick-change  
barrel w/bipod & 30-rd.  
mag. This is one of the  
finest quality SMGs ever  
produced.  
**GREAT FOR NON-GUN  
\$250.00**

## ORIG M2, 60MM WW II MORTAR

Comp. w/sight, bipod, base plate &  
orig. shipping crate  
**\$1250.00**



Shipping crate  
**\$65.00**

Bipod  
**\$250.00**

Fully transferable on Form 4  
to FFL individual or dealer



March 1995  
\$2.95 U.S. / \$3.95 Canada

**the Blue Press**

**REVIEW:**  
RT 1200B  
Case Trimmer  
Page 14

**NEW!**  
XL 650  
Video  
Page 18

**Now Available!**  
New Brass:  
7.62 x 39 - Pg. 45  
9 x 21 - Pg. 43  
**Special Buy!**  
Once-fired 9mm / 40 S&W  
Pg. 45

**Brass & Powder  
Overstock  
SALE!**  
Pages 42-44

**DILLON**

...not only manufactures the world's finest loading equipment, we also publish **THE** most provocative and entertaining catalog/magazine for serious shooters everywhere:

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...a 64 page color publication full of shooting accessories, reloading equipment, informative and controversial articles, and unabashed opinion. Best of all, your subscription is free! Call:

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Products, Inc.

# Incoming

## THE ARMY IN BOSNIA

I am in the \_\_\_\_\_ INF, \_\_\_\_\_, Germany. This place is hell on shooters. In an infantry-size battalion, you'd be surprised how few soldiers own personal weapons or even want to go to the shooting range.

What is the general opinion of the people you know about us going to Bosnia?

So far, those I know I can safely ask:

1. Don't believe we should go.
2. Don't believe the problem will cause WWII.
3. Don't believe Bosnia has any national security interest that's vital to our country.

We get military TV here: one channel called AFN. It's not known to broadcast controversial subject matter.

The majority of noncommissioned officers, E-5 (sergeant) to E-7 (sergeant 1st class) definitely don't believe we have a legitimate reason! Clinton's political ambitions aren't legitimate.

When he came here last week, there were a lot of protesters, anti-Clinton / Bosnia, but nothing was shown on TV. Our local paper, "Stars and Stripes" ran an article about several MPs' (Military Police) wives who wanted to carry posters—no handle. They were ordered off the base. The officers (MPs) denied that it happened.

Watch the news. If an infantry unit is hit, they will respond regardless of sex or age, provided there isn't a PC officer around. PC—Politically Correct.

There are a lot of PC officers and NCOs in today's Army. Probably because of the drawdown of U.S. forces.

We don't expect an attack in force by any side. But if we were the other side, we'd use guerrilla warfare—devious and nasty—almost impossible to retaliate against. That's our biggest worry.

Don't use my name, but let ones you know know how U.S. Army infantrymen feel about Bosnia.

Take care now,  
Anonymous

## SUPPORT AMERICAN GUN COMPANIES

This is in response to the recent notice appearing in gun magazines concerning Remington shotguns. I think it is time that

we as gun owners take a stand in support of American gun companies.

What I propose is this: If you have one of the shotguns in question, claim the share of the fund that is coming to you, then send these funds right back to Remington.

Even if Remington doesn't need the money, the message is clear to antigunners and those opposed to tort reform in the products liability area. This action on your part would encourage Remington as well as other gun companies. We gunnies must stand for what is right and be willing to put the money where the mouth is.

Mark M.

## INTERNET WEB SITE

*The following are entries from our guestbook. The next time you're on the Internet, be sure to visit our site:*

<http://www.machinegunnews.com>.

Neat site. A MUST for every machine gun fan with Internet access. Good work!

Gil "H.K." Villanueva

As a subscriber of MGN for many years, it's good to see ya'll on the net. The more we expose our interests to the masses the more they will understand our position on the 2nd Amendment. Keep it up!

Mike Storey

At last—justification for buying this computer! I'm most pleased with your web page (and the publication, by the way)! Just hope that the network remains open and does not become censored...

Rock&Roll,  
HBP

Great page, great comments, and the best magazine. Keep it up.

Bill Davis

Wow! Didn't realize how many RKI's were in here.

Frank Iannamico

Great to see you on the Web. I look forward to your magazine each month, and now I can get even more out of it.

Andy Gillis (a not so RKI)

I really like the new additions to the page. Your magazine is great, I really look forward to getting it.

Howard Bl...

## Send your comments to:

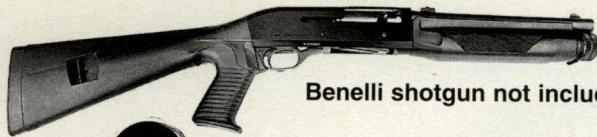
MGN C/O Incoming, PO Box 459  
Lake Hamilton, AR 71951



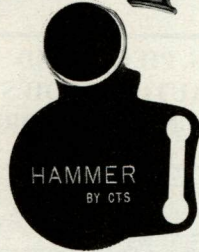
# CLASS THREE SUPPLY, INC.

P.O. Box 1119 Hermitage, PA 16148-1119 ■ Phone: (412) 962-1890 Fax: (412) 962-1891

## M1K "HAMMER"



Benelli shotgun not included



### Specifications

Barrel length: 10.4"  
Overall length: 31.7"  
Magazine capacity: 3

Suggested Retail  
**\$295.00**

CTS Incorporated now offers the original **M1K "HAMMER"** conversion to all qualified owners of Benelli M1 Super 90 shotguns. Previously restricted to law enforcement agencies, this conversion allows the user to add tactical flexibility to this fine weapon.

This conversion is available on all Benelli M1 Super 90 shotguns that do not have a fixed 7-round magazine. All later production models will accept our conversion, including ghost-ring sight versions.

The **M1K "HAMMER"** conversion includes shortening your barrel and relocating the front sight. A new magazine cap will be provided and your original magazine extension will be returned to you. "Hammer" logo can be engraved at additional cost. Your shotgun will retain the ability to accept optional barrels and magazine extensions.

The **M1K "HAMMER"** is registered as a short-barreled shotgun and may only be transferred to individuals on ATF FORM 4. The transfer is taxed \$200.00 and must be approved by BATF prior to delivery of the firearm.

**M1K "HAMMER"** conversion on customer's shotgun;  
shipping, insurance, sales tax and transfer tax additional.

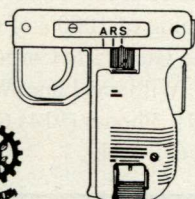
Note: The M1K "HAMMER" conversion is only available on otherwise stock shotguns. CTS Inc., may refuse any firearm that is deemed unfit. Price and specifications are subject to change without notice.

## SWEDISH K PARTS

Closeout of parts for the Carl Gustaf M45B or Port Said 9mm submachine gun. All parts removed from functioning weapons in good repair.

Item	Description	Price
C0045	Left grip panel	\$ 5.00
C0046	Right grip panel	5.00
C0047	Barrel shroud with retainer (stripped)	20.00
C0048	Receiver cap	10.00
C0049	Barrel (pitted bore)	50.00
C0050	Bolt assembly	50.00
C0051	Return spring	10.00
C0052	Barrel Support	20.00
C0053	Magazine housing (removable type)	10.00
C0054	Retainer for magazine housing	5.00
C0055	Buttstock assembly	20.00
C0058	Trigger	10.00
C0059	Sear	10.00
C0060	Ejector	10.00
C0061	Cocking handle	20.00
C0062	Front sight	10.00
K0008	Port Said complete part set with magazine	225.00

## COMPLETE FULL-AUTOMATIC TRIGGER MECHANISM (LOWER) FOR "UZI" MACHINE GUNS.



- \* Contains All Internal Parts \*
- \* Brand New Black Finish Genuine I.M.I. \*
- 0504000 - Grip assembly for Mini Uzi closed bolt SMG **\$495.00**
- 0464000 - Grip assembly for Mini Uzi open bolt SMG **\$450.00**
- 1074000 - Grip assembly for Uzi SMG **\$395.00**

## BRAND NEW PARTS FOR YOUR UZI!

*IMI parts for Uzi SMG			*FN parts for Uzi SMG		
1000101	10.2" barrel	\$150.	1010101	10.2" barrel	130.
3560101	9.2" barrel	165.	1013000	Top cover assy., black	75.
1073000	Top cover assy., black	100.	1010111	Bolt	125.
1023000	Top cover assy., parkerized	90.	1010400	Grip body black	75.
1030111	Bolt	125.	1040400	Grip body parkerized	65.
1031000	Bolt/extractor/pin assy.	170.	*IMI parts for Mini Uzi SMG		
K35	Extractor/pin	45.	463000	Top cover assy., OB	150.
1060120	Return spring assy.	30.	K29	Bolt assy CB	495.
1120400	Grip body black	100.	460120	Return spring assy., OB	40.
1074000	Grip assy.	395.	910120	Return spring assy., CB	40.
1060471	Split bushing	15.	1120400	Grip body	100.
1000411	Sear	65.	464000	Grip assy., OB	450.
1060420	Trigger/interrupter assy.	75.	504000	Grip assy., CB	495.
1060431	Change lever	25.	K77	Buttstock assy.	300.
1000212	Ejector	15.	*IMI parts for Micro Uzi SMG		
K37	Grip panels/screws	40.	960101	5.2" compensated barrel	165.
K58	Grip/handguard panels/screws/nuts	85.	K23	Buttstock assy.	300.
1360000	QD buttstock wood	165.	<div>Many other IMI parts available; call for information. Deduct 10% if your Uzi parts order exceeds \$1,000. Additional discounts to FFL dealers with FFL on file.</div>		
U1360000U	Used QD buttstock wood	100.			
1401500	Folding buttstock black	165.			

## G41 MACHINE GUN



- \* Accepts M16 Magazines
- \* Forward Bolt Assist
- \* Folding Carrying Handle
- \* 4-Position Selector allows single, 3-rd burst and full-auto

**Only \$1,495.00** plus \$15.00 FRT/INS

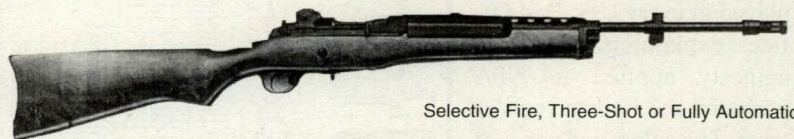
**These weapons are not transferable to individuals.**

CTS Inc. has received a small number of the famed HK G41 5.56mm machine guns. These automatic rifles incorporate the best of the M16 features with the reliability of the HK delayed blowback roller-locked bolt operating system. These weapons are in very good used condition with sling and one M16 30-round magazine included.

**Terms: Law enforcement agency orders must include original purchase order. Net 30 day terms apply.**

**Dealer orders must include current FFL/SOT, agency demonstration request letter & 50% nonrefundable deposit.**

## RUGER AC556 PARTS KITS



Selective Fire, Three-Shot or Fully Automatic

CLASS THREE SUPPLY, INC. has acquired a number of RUGER AC556 Fully Automatic Rifles. These rifles, in the form of kits, are being made available to all NFA dealers and other qualified individuals. These kits consist of the following: stock, barrel, complete 3-rd./full-automatic trigger mechanism and all other parts—except the receiver. (No magazine is included.) Replacement parts only. All NFA rules apply.

AC556 Parts Kit . . . \$325.00	30-RD. Original Ruger AC556 Magazine
N.R.A. Good Condition	Refinished . . . \$49.00
	Good Condition . . . \$39.00

Prices subject to change without notice.  
Dealers should send FFL/SOT for dealer discount.

**Only 25 left!**



# What's New

by **CHRIS A. CHOAT**

## SIERRA .30 CAL. 175GR. HPBT MATCHKING BULLETS



Sierra now is manufacturing a new 175 grain HPBT MATCHKING BULLET. The new bullets were developed in response to a request from the U.S. Military Ordnance Corps. The streamlined match bullet was designed to give outstanding performance at ranges out to 1000 yards. Ballistically, this bullet is remarkably similar to the old 173 grain FMJBT used in M72 and M118 military "match" ammunition, but is capable of much better accuracy. For more information contact: Sierra, Dept. MGN, P.O. Box 818, 1400 West Henry Street, Sedalia, MO 65301. Phone: (816) 827-6300. Fax: (816) 827-4999.

## NEW AND IMPROVED .50 CALIBER BOLT ACTION

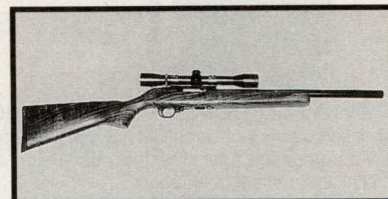


American Arms & Ordnance, Inc., has released their new upgraded Model 2000 M/P .50 caliber rifle. Significant improvements include;

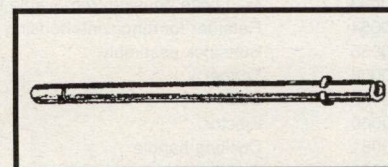
- Bolt mounted 3-position Winchester type safety.
- Machined aircraft alloy stock that is hard anodized.
- Hardened steel, adjustable bipod.
- Optional folding stock.
- Optional adjustable cheek piece.
- Guaranteed M.O.A. accuracy with suitable ammo.

For more information on this big boomer contact: American Arms & Ordnance, Inc., Dept. MGN, 1303 S. College Ave., P.O. Box 2691, Bryan, TX 77805. Phone: (409) 822-4983.

## PARTS, PIECES AND FULL-AUTO GOODIES FROM GUN PARTS CORP.



Gun Parts Corporation is pleased to announce that they have the following new items in stock and ready to ship. The first is match-grade bull barrels and target stocks for the Ruger 10/22 rifle. The barrels are available in 18- and 24-inch blue models and a 20-inch stainless steel version. These barrels feature a .920" o.d. and have broach rifling with match chambers. The stocks are available in either American walnut or synthetic black and fit guns equipped with the heavy style barrels. Gun Parts Corporation has also recently acquired a lot of original M2 tripods complete with T&E mechanisms. These are 1940's manufactured, unwrapped and appear to be unused. Also, for full-auto shooters they now have a small lot of new, unissued Finnish Model 1931 Suomi parts which include bolts and barrels. And last but not least



a limited supply of bolts, barrels and folding stocks for the Finnish Model 44 submachine gun. For more information and their catalog of 1000's of gun parts contact: The Gun Parts Corporation, Dept. MGN, Williams Lane, West Hurley, NY 12491. Phone: (914) 679-2417. Fax: (914) 679-5849.

## REPLICA AMNESTY POSTERS

Recon Ordnance is now offering EXACT reproductions of the posters that were displayed in every U.S. Post Office explaining how the amnesty applied to NFA weapons and how to register them. The colors and paper of the posters were duplicated to perfection. These posters make the perfect "wall hanger" addition to a gun or reloading room. For more information or to order a poster(s) contact: Recon Ordnance, Dept. MGN, P.O. Box 829, Fond du Lac, WI 54936-0829. Phone: (414) 922-1515. (Editors Note: Jerry Prasser of Recon Ordnance has informed me that they finally have a quantity of the Thompson Style BB machine guns available. See MGN August '94 and October '94 issues.)

### Public Notice

A new Federal law requires you to register your possession of certain firearms with the Director, Alcohol and Tobacco Tax Division, Internal Revenue Service, on or before January 1, 1994. This registration must be done during the period of January 1 through December 31, 1994. Failure to register could result in a fine of \$500 and/or imprisonment for up to one year.

**Firearms which must be registered:**

- (1) All firearms which are not exempted from the registration requirements by the Director.
- (2) All firearms which are not exempted from the registration requirements by the Director.
- (3) All firearms which are not exempted from the registration requirements by the Director.
- (4) All firearms which are not exempted from the registration requirements by the Director.
- (5) All firearms which are not exempted from the registration requirements by the Director.
- (6) All firearms which are not exempted from the registration requirements by the Director.
- (7) All firearms which are not exempted from the registration requirements by the Director.
- (8) All firearms which are not exempted from the registration requirements by the Director.
- (9) All firearms which are not exempted from the registration requirements by the Director.
- (10) All firearms which are not exempted from the registration requirements by the Director.

**Where firearms are to be registered:**

Firearms must be registered at the National Firearms Registry, which is located at the Department of the Treasury, Internal Revenue Service, Washington, D.C. 20540.

**How to register:**

Firearms must be registered by filing Form 1-A, "Statement of Ownership of Certain Firearms," with the National Firearms Registry. The form must be completed and signed by the owner of the firearm. The form must be filed with the National Firearms Registry by the deadline date.

**Penalties for failure to register:**

Failure to register a firearm may result in a fine of \$500 and/or imprisonment for up to one year.



### U.S. 1928A1 THOMPSON SUBMACHINE GUN PARTS SETS

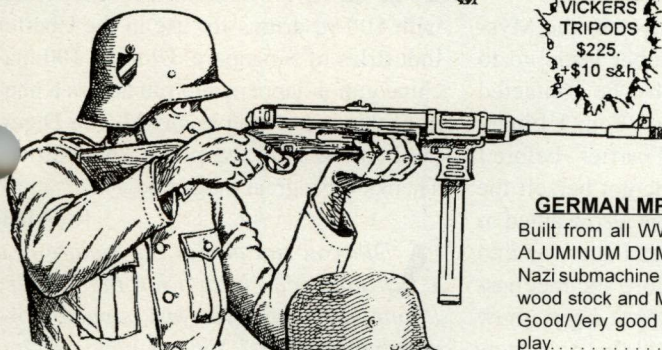
All American made, this classic was the descendent of the "Chicago piano" 1921 Thompson of Al Capone fame. Produced for use in WW2, our parts sets are complete except for the RECEIVER. Each comes with a FINNED barrel with Cutts Compensator, horizontal foregrip, fixed "L" back-sight and 30-round magazine. Very Good /Excellent.  
\$350.00 (XU1610)  
Or we have a few with PLAIN barrel.  
\$325.00 (XU1611)

### M63 MG MOUNT

STURDY .30/50 cal. mount complete with SIDE PLATE TRIGGER ASSY.  
..... \$695.00 plus \$20 s/h (MU6300)

### MAXIM ACCESSORIES

Maxim Sled Mount A.A. Extension ..... \$295.00  
Maxim 09 Tripod w/Brass Crosshead ..... \$500.00  
Maxim Trench Armor ..... \$400.00  
Maxim Trench Mount ..... \$300.00  
Maxim Tongs ..... \$ 40.00  
Maxim Angle Cleaning Tool ..... \$ 40.00  
Maxim Cloth Belt, Original ..... \$100.00

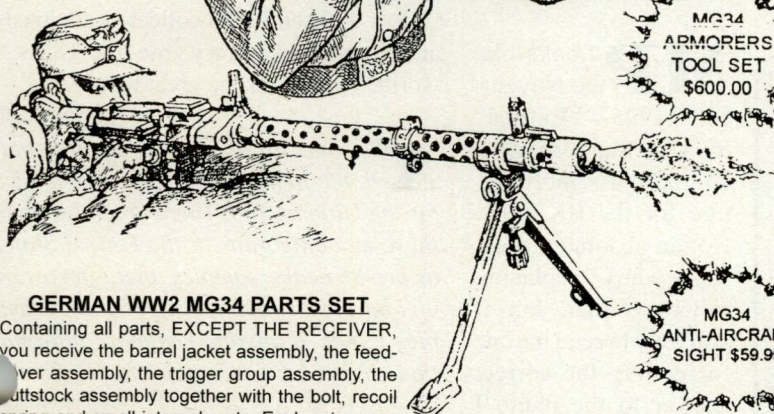


**I.M.A.**  
PHONE:  
(908) 903-1200  
FAX:  
(908) 903-0106



### GERMAN MP 41 DUMMY GUNS

Built from all WW2 Original Parts on an ALUMINUM DUMMY receiver. This rare Nazi submachine gun comes complete with wood stock and MP 41 marked magazine. Good/Very good condition. Ready to display..... \$395.00 (GG4100)



### GERMAN WW2 MG34 PARTS SET

Containing all parts, EXCEPT THE RECEIVER, you receive the barrel jacket assembly, the feed-receiver assembly, the trigger group assembly, the buttstock assembly together with the bolt, recoil spring and small internal parts. Each set comes with the late war improved BRNO pattern bipod with adjustable legs (NOT ILLUSTRATED). Excellent condition WW2 dated parts set.  
..... \$345.00 plus \$15 s/h (XG0341)

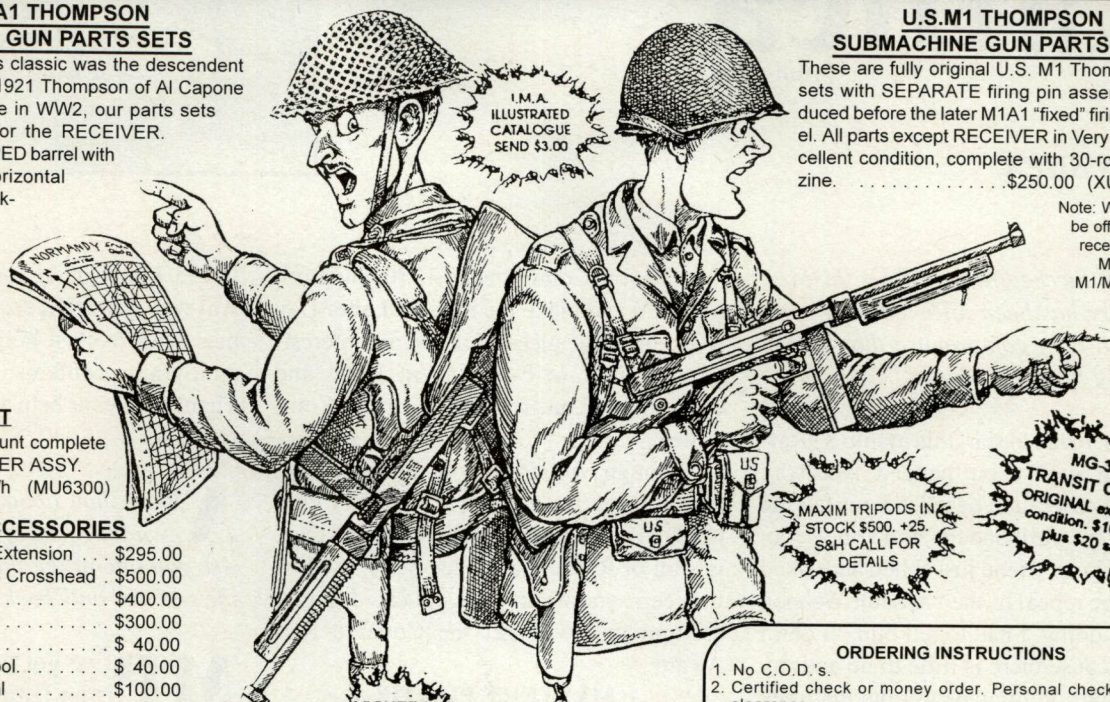
### MG34 "TANKER" PARTS SET

We have a few ORIGINAL tanker sets w/correct tanker jacket and bipod setup. VERY SCARCE. .... \$650.00 plus \$15 s/h

### U.S. M1 THOMPSON SUBMACHINE GUN PARTS SETS

These are fully original U.S. M1 Thompson parts sets with SEPARATE firing pin assemblies produced before the later M1A1 "fixed" firing pin model. All parts except RECEIVER in Very Good/Excellent condition, complete with 30-round magazine. .... \$250.00 (XU1605)

Note: We will shortly be offering dummy receivers for both M-1928A1 and M1/M1A1 Thompson Smgs.



I.M.A.  
ILLUSTRATED  
CATALOGUE  
SEND \$3.00

MAXIM TRIPODS IN  
STOCK \$500. +25.  
S&H CALL FOR  
DETAILS

MG-34  
TRANSIT CHEST  
ORIGINAL excellent  
condition. \$100.00  
plus \$20 s/h

### ORDERING INSTRUCTIONS

1. No C.O.D.'s.
2. Certified check or money order. Personal checks held for clearance.
3. Minimum order on Credit Cards \$20.00.
4. NEW SHIPPING RATES: For the 48 contiguous states please include \$5.00 for the first item, \$1.00 for additional item. For Alaska, Hawaii and Canada please include \$6.00 for the first item, \$1.50 each additional item.
5. Any item may be returned within five days for a full refund if in the same condition as shipped. Buyer pays shipping both ways.
6. N.J. residents must include 6% sales tax or copy of resale certificate.
7. Allow 3-4 weeks for delivery.

NEW TELEPHONE SERVICE "HOT LINE"  
FOR VISA & MASTERCARD ORDERS, 908-903-1200

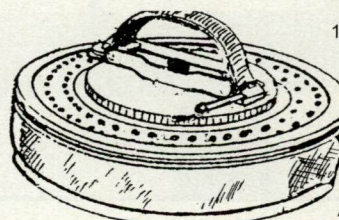
INTERNATIONAL MILITARY ANTIQUES INC.  
P.O. Box 256, Dept. MGN, Millington, NJ 07946  
OR ORDER BY FAX: 908-903-0106

### MAXIM MACHINE GUN "SURVIVAL" PACK

New importation from Europe of some of the small essential internal replacement parts. All you need to give your MG a proper tune-up. All parts are ORIGINAL and in excellent condition. You get one of each: extractor, fussee spring; firing pin; lower extractor stop; safety sear & spring; feed slide pawl spring; left & right extractor lever; gib; extractor left level retaining cover; cartridge detent spring; firing pin spring; tumbler; 1916 ammo can. .... \$125.00

### NAZI MADE MP 34 "O" STEYR SOLOTHURN S.M.G. PARTS SET

Original Austrian made MP 34 SMG Parts Set designated with the "O" for "Oesterreich" after the annexation of Austria by Germany in 1938. The guns were made 9 mm parabellum and incorporated all the finest points of this wonderful submachine gun. Manufactured in 1941, each gun was equipped with a built-in magazine loader in the magazine housing and bayonet lug on the perforated barrel jacket. Each set bears Nazi Waffenamt markings. No Receiver included. Recently released from Portugal to whom the Germans supplied these in 1941, these have to be one of the best made SMG's of the WW2 period. Each set comes with one magazine.  
MP 34 "O" Parts Sets, excellent. .... \$225.00 (GP3401)



100-ROUND BREN  
DRUM W/WINDER.  
\$250.00 (XB3000)

TRANSIT CHEST  
SET. .... \$995.00  
(XB3002)

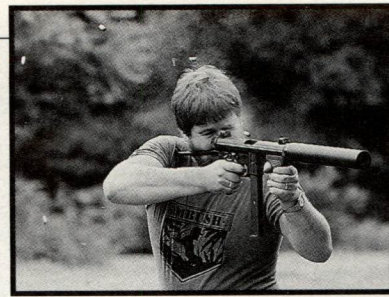
ADAPTER BRACKET.  
..... \$49.95 (XB3001)



# Raffica

(full-auto)

by DAN SHEA



*"From the beginning of our history, the country has been afflicted with compromise. It is by compromise that human rights have been abandoned."*

—Charles Sumner

I do not mean to start this month's "Raffica" with such a bullheaded, one-way statement, other than because I am feeling particularly bullheaded and one way tonight. A good friend just called and asked me how the repeal of the "Assault Weapon Ban" was doing. I had to tell him, "I don't know" because there is little to no activity in our behalf. Politicians tell me that they are too afraid of the press' reaction if they do it, and it is an "election year."

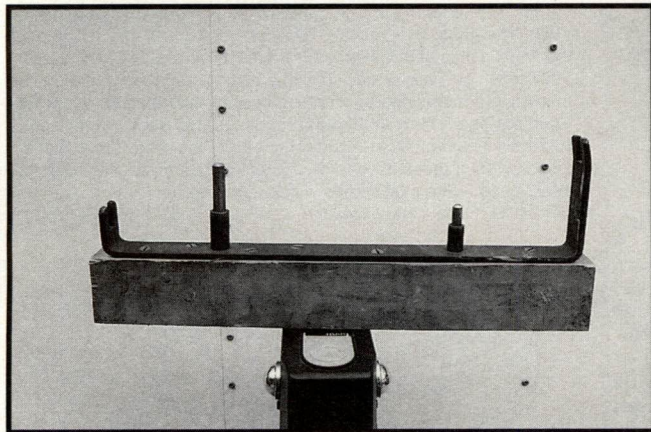
Hey, guys! It sure IS an election year! Remember the last one? Some of us are keeping score, too. Anti-Second Amendment Fanatics 3: Brady, Assault Weapons Ban, High Capacity Feeding Device Ban.... Pro-Second Amendment Citizens—ZIP! We turn the Congress right on its ear in the 1994 election and are completely ignored in the ensuing session. Even Clinton publicly admitted that the Pro-Second Amendment forces in this country were largely responsible for the rout of the Democrats in November of 1994. Our representatives may be listening to our calls and faxes.... but I don't believe they are HEARING us yet. I think it should be a point for all of us to start making noise this spring.

Let's get the Committee of 1776 going full tilt again and make the rally on Labor Day weekend a big success. If you are interested, fax, mail, or E-mail us at MGN, and we will put you in touch with the Committee.

Enough politics; back to machine guns. I am considering moving the Mystery Photo out to its own space next month, as there is a lot of Raffician space being used by it. Keep sending in your educated guesses, and you will get the Coveted RKI Award.

## MYSTERY PHOTO

First dibs on the answer to the Mystery Photo of the December issue go to Kaye Tumlinson-English who contacted me immediately and said "Four Ultimax 100 drums in the original carrier" before I could say "Hi Kaye." She got herself the Coveted RKI Award. Kaye also wanted to clarify with the readers that she was into machine guns LONG before she met husband Woody, who saw her at a gun show in Texas. Once he realized that she knew machine guns, shot machine guns, owned machine guns, and was available, he was hooked. When he discovered that she also BROKE machine guns occasionally, he knew he was "in," using his ability to fix broken machine guns as a wooing point. Or, so "Raffica" has heard....



February 1996 Mystery Photo.

**MP** Looks like the November 1995 "Raffica" Mystery Photo shows a bolt head assembly fixture for the HK MP5. Not an absolute necessity when replacing rollers/retainer, but if you were to send me one for getting the correct answer to the photo I wouldn't gripe about it. If you don't have a spare fixture, maybe you could send me a nice

HK33 bolt carrier instead [..big grin..]. Anyway, your HK issue of a few Christmas seasons past helped me solve some annoying problems with a sear gun. Thanks for your help and keep up the good work.

Brian Applegate

**A** Brian, how about a nice Coveted RKI Award instead of the bolt carrier, ok? Are you one of the unfortunates who got the receiver only back from Billistics, Inc?

**MP** I've got this one nailed. This is an Ultimax 100 ammo bag with 100-rd drums for use in the Charter Industries of Singapore, Ultimax 100 machine gun. I happened to run across a photo of this ammo bag in an old *Gun Digest* book of assault weapons, 2nd edition. Thanks for a great magazine.

Rick Hill

**A** Did you run across the picture in a frantic search for what the Mystery Photo was, or did you just happen to remember seeing it? You are now a recipient of the Coveted Order of the RKI.

**MP** The items in the December Mystery Photo are four 100-round drum mags for the Ultimax 100 cal .556 NATO, manufactured by Chartered Industries of Singapore. I am a new subscriber and semi-auto collector, anxiously anticipating my entry into the Class 3 world. Thanks for the great mag!

John S. Kish

**A** Welcome to MGN. As previously noted, the items in the photo are indeed for the Ultimax 100. There are only two of these machine guns in the United States as pre-86 dealer samples, that I am aware of. I have not seen any post-86 dealer samples either. If anyone has more information on them, please send it to "Raffica."

**MP** Just received my sample issue of MGN and it certainly looks like I will have to subscribe to it. You guys do a great job! Very interesting material,



even though I don't have any FA, just a large collection of politically incorrect "black" semis. Your December Mystery Photo is of the canvas carrying bag for Ul-timax 100 SAW ammunition drums. Four clear plastic 100-rd drums are shown as well.

Seth Thompson

**A** Welcome to MGN, Seth, You are now a member of the Order of the RKI.

**MP** The November '95 Mystery Photo is an H&K bolt head assembly fixture for assembling the locking rollers into the bolt head. I cheated, though; I looked in the G3 repair manual.

Debbie Morris

**A** Half of knowledge is knowing where to look, Debbie. If we could teach that to all of the gunsmiths and technicians out there, we'd be worlds ahead. You got your RKI.

**MP** First of all, many thanks for an excellent magazine. The November Mystery Photo is a Heckler and Koch Assembly Fixture Part No. 1013-0206 VI used to replace the locking rollers of the G3 rifle and other HK weapons with the same bolt head system. I attached the relevant pages from the "G3 Maintenance and Repair" manual. Do you know where I can get the "Maintenance and Repair" manual for the HK MP5 series for my document collection? HK has been of little help in this.

Stephen Beresford  
England

**A** I saw Class Three Supply selling the new HK MP5 manual called the "Heckler & Koch MP5 Submachine Gun Family Operator's Manual" when I was at Knob Creek. You might want to drop them a line at (412) 962-1890, fax at (412) 962-1891. I am also pleased to present the first Coveted RKI Award across the At-

lantic...

**Q** Do you have any idea what kind of grenades are intended to be launched by a Ruger AC-556's launcher? Are any inert practice grenades available? If they are available, are they a restricted item? What type of cartridge is used to launch the grenade? Will a standard blank round work? Are other accessories needed to launch the grenades? What about grenade sights? If the practice grenades are available, not restricted and preferably reusable, we could set up a whole new type of competition!

Captain Monty

**A** Monty, it kinda figures that you would chase this one out.... The Ruger AC-556 rifle is set up to launch the standard NATO-style rifle grenades. This means you can use the flares, smokes, and practice grenades that are out there. A couple of cautionary notes: The AC-556 is a rather lightweight rifle to be launching these grenades with. Grenade launching puts a tremendous amount of stress to the receiver and the shoulder of the shooter. Use the rifle-butt-to-soft-ground method of firing. Wear safety glasses and hearing protectors.

**DO NOT USE ANY BULLET TRAP TYPE GRENADES WITH THE AC-556. USE ONLY GRENADE LAUNCHER CARTRIDGES THAT ARE IDENTIFIED FOR THE PURPOSE.**

Some of the Ruger stainless models had a heat treatment problem in the receivers, and Ruger repaired most of them that they were able to locate. I have seen stress cracks inside the stainless receivers before. At the last Knob Creek shoot, I saw one that had split clean in half at the stress lines (right at the front top of where the magazine enters).

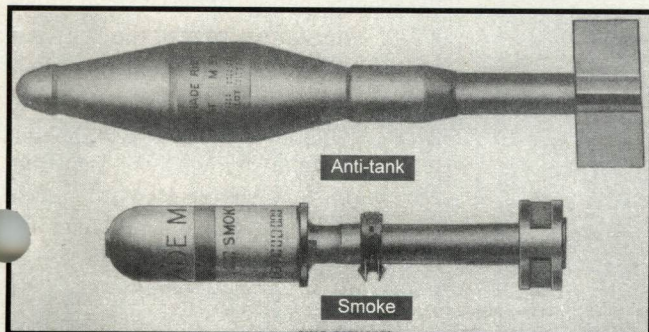
The standard U.S. military grenade launcher blank is used for this purpose.

Designation is the "Cartridge, 5.56mm, Grenade, M195." There is a rosette-style crimp on the cartridge tip: the same as on the "Cartridge, 5.56mm, Blank, M200" which is the standard blank cartridge. The blank can easily be distinguished by the engraved knurl that is about 1/2" from the base of the cartridge (see diagram). Since the M200 blank cartridge is intended for a different purpose, not a contained expansion, the powders are different. In the blank cartridge, there is a load of 7 grains of HC-13 powder. In the grenade cartridge, the load is 25 grains of IMR-4475. I was unable to gather the data on these two powders in time for the MGN deadline, but as you can see, there is quite a difference. Without more information, I would "assume" that the light blank load has a faster burning propellant to work the blank system in the M16, while the grenade launcher might be a slower burn similar to a mortar powder. We all know what kind of trouble you can get in "assuming things." The high pressure test cartridge for the 5.56 uses only 16.7 grains of SR-7641! You can never go strictly by quantity of powder when thinking of what it will do when ignited and contained. In this case probably nothing, but....

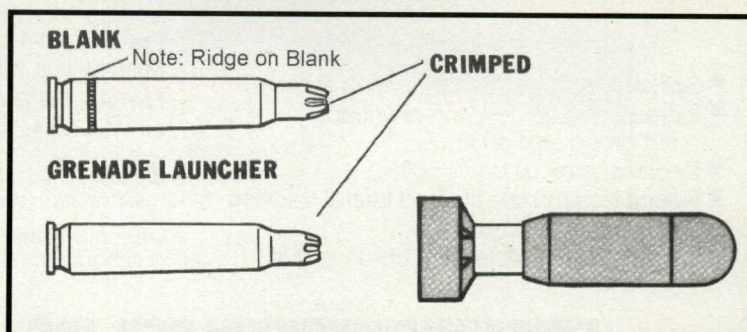
If some of our Ammunition RKI's out there want to send in the exact powder descriptions for HC-13 and IMR 4475, I will pass it on. I would also appreciate a source for a book that discusses the characteristics of military propellants.

**Q** The SGW/Olympic .45 upper for the M16 is the only one that I know of, also. I bought one for use on my M16. What follows is what I had to do to get one working right.

The conversion is a straight blowback upper; no gas tube or port is needed. The bolt carrier has a weight added to the center to increase the mass. The sear trip con-



Rifle grenades.



Cartridge 5.56mm, grenade, M195 at bottom. Cartridge 5.56mm, blank, M200 at the top.



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tact point on the bolt carrier is cut back approximately 3/8 - 1/2 of an inch past the correct spot. Since this is a special bolt and carrier, the carrier must be welded up, turned back to the proper diameter in the lathe, and then milled back to the correct spot. Just make it match the M16 bolt carrier in the trip area.

The .45 acp cases, being a larger diameter than the .233, have a hard time getting out the ejection port in good order on auto fire. I took the ejection port door off and cut away about 1/8 - 3/16 of an inch all around the ejection port.

The feed ramp must be smoothed out. SGW calls it the forcing cone. Dremel tool it to take any ridges out of the bottom.

I have heard of several instances of SGW's extractor breaking and mine broke the first time out after the second or third full-auto run. A standard AR-15/M16 extractor can be cut down to fit and with careful fitting can be left thicker at the working edge. This will work without breaking.

The barrel on my unit is stainless steel and came with a 5" flash hider for legal length. Because I have a registered M1 I cut the flash hider off and crowned the barrel to 10 1/2". Cycle rate is just slightly faster than standard .223.

Magazines are the final problem.

The unit comes with one 16-round Uzi mag with a shell welded to the back of it and which uses the standard mag catch.

SGW's arrangement places the .45 mag all the way forward in the mag well which makes the angle for the round to come out of the mag pretty steep and subject to jamming.

Uzi .45 acp mags are only 16 rounds and average about \$75 each. To make the Uzi mags work right, I started with one of the old SGW 9mm mag-well blocks; this was the block for Sten mags. I took the adapter shell off of the Uzi mag, added a 3/8" filler to the front of the Uzi mag, milled off the front of the adapter block and added a slot for the mag catch to engage. To my knowledge, the only commonly available .45 acp stick mags that are single stack, single feed are Grease Gun mags. These are too wide even if the extra metal is removed from the top of the mag.

R.A.S.E. of Cocoa, FL, makes a mag conversion that appears to be the best bet. They cut and reform the Grease Gun mag



and use a front and rear filler block. This sets the mag slightly back into the proper position and utilizes the stock M16 mag catch.

I had wanted to get another M16 lower and devote the .45 upper to it, but with the cost of registered lowers as much as it is, I have decided to sell my .45 upper and just shoot the M6 Ingram I bought from you. My upper is for sale at \$750 and comes ready to rock-n-roll with three modified Uzi mags.

Lee F.

**A** Thanks for the input on the M16/45 Lee. Anyone interested in that conversion unit, send in the information to MGN and we will pass it along. I would note that this is now a short barrel and would require a registered machine gun for installation.

**Q** Can you discuss the pluses and minuses of owning a registered receiver gun verses a sear gun and visa versa? Particularly in terms of durability and longevity. Do receivers or sears usually wear out first, on H&Ks in particular? What is the average life expectancy of a good quality auto sear, such as a Fleming sear? Once a registered auto sear is "worn out," is it gone forever? And lastly, if a sear wears out in a registered receiver gun, can you make or buy a post-86 sear and install it in the gun? If so, do you know a source for replacement H&K sears?

Mark

**A** We have gone over the HK sears fairly thoroughly before. There are two things that come immediately to mind with your questions. First is that there really are two different kinds of "registered receivers" in the HK machine gun group. The first one is a true registered receiver in that the front swing-down, take-down pin is used on the trigger group. You will be able to tell this gun, because when you disassemble it, there is a take-down pin that the trigger group pivots on. This firearm is able to use any of the different HK trigger groups by simply switching them. You can use the 3-shot packs, the ambidextrous packs, the 2-shots, SG1 upper, etc. If a sear wears out in this gun, you can easily purchase a replacement for it. This is not a restricted part, as it will not fit into a semi-automatic HK for conversion to select fire. Cost is generally under \$35 U.S.



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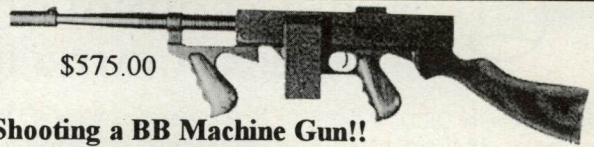
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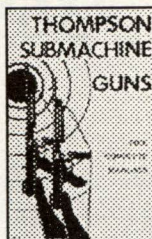
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As far as durability, the Fleming registered sears wear quite well, and as far as I have personally seen, are as likely to outlast the receiver as vice versa. Some of the other sears that I have examined have not been hardened and were showing lots of wear. For the lucky individual with a swing-down lower registered receiver, keeping spare parts is inexpensive and not really a problem. Keeping several of the so-called sears (they are really called the "catch") should not be a problem. There is more wear on the trip lever and hammer shelf than on the catch... b a prudent shooter would keep spares.

Questions to:

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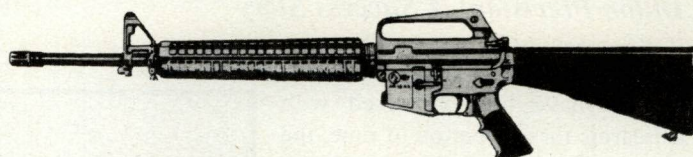
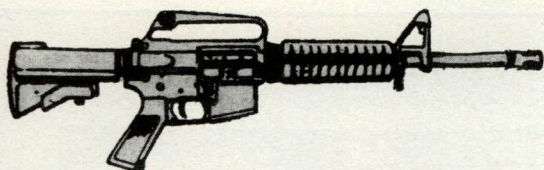


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Forward Assist Teardrop	\$15.00
Gas Tube C.A.R.	\$9.00
Gas Tube Standard	\$9.00
Gas Tube Roll Pin	\$5.00
Grenade Launcher (Star)	\$5.00
Hammer AR-15	\$10.00
Hammer M16	\$10.00
Hammer Pin	\$5.00
Hammer Spring	\$1.00
Handguard Cap Round	\$1.00
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Handguard C.A.R. Set	\$10.00
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Shields	\$15.00
Handguard NM Free Floating	\$35.00
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Handguard Slip Ring	\$2.00
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Handguard Snap Ring	\$1.00
Magazine Catch	\$3.00
Magazine Catch Button	\$5.00
Magazine Catch Spring	\$5.00
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Pistol Grip Screw Washer	\$5.00
Rapidex Windage Knob	\$5.00
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Swivel Pin	\$5.00
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Takedown Pin Detent Spring	\$5.00
Takedown Pin Rear	\$2.00
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Hammer Spring	\$1.00
Hammer Spring Housing	\$7.00
Hammer Spring Plunger	\$1.00
Handguard Solid	\$2.00
Handguard Clip	\$2.00
Magazine Catch	\$10.00
Magazine Catch Spring	\$5.00
Magazine Catch Pin	\$5.00
Op-Rod Spring	\$4.00
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Rear Sight Cover	\$2.00
Rear Sight Elevation Knob	\$12.00
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Cond.	\$12.00
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Stock, Walnut, Very Good	
Cond.	\$17.00
Stock, Walnut, Good Cond.	\$15.00
Stock, Fiberglass, Exc. Cond.	\$10.00
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Buttplate Screw, Lower	\$1.00
Butt Swivel	\$2.00
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Connector Lock	\$2.00
Connector Lock Pin	\$5.00
Clip Guide	\$6.00
Clip Guide Pin	\$5.00
Extractor Spring & Plunger	\$3.00



# The Ammo Bunker



by **DUTCH HILLENBURG**  
*Dillon Precision: A Success Story*

If you have been involved with firearms for any period of time, the high cost of ammunition will eventually cause you to explore the arcane art of reloading. This is particularly true for those of us who collect machine guns and enjoy shooting them on a regular basis. It isn't long, therefore, before we learn the name Dillon and the reputation associated with it. Like most people, I was skeptical when I heard all the talk about Dillon Precision products and particularly about their so-called "No B.S." guarantee. Their guarantee is, "If it doesn't work or breaks, we'll fix it, FREE!" Yeah, right.... I couldn't believe it. *They actually do it!* Your fault, their fault, it doesn't matter. Unless you willfully destroy something they make, they make it right without a hiccup. I don't like to reload out of pure laziness, but I am a *dyed in the wool* Dillon fan. To me and many others, they are "it" when it comes to reloading.

Several months ago, a business trip brought me to Arizona and I seized the opportunity to visit Dillon Precision in their



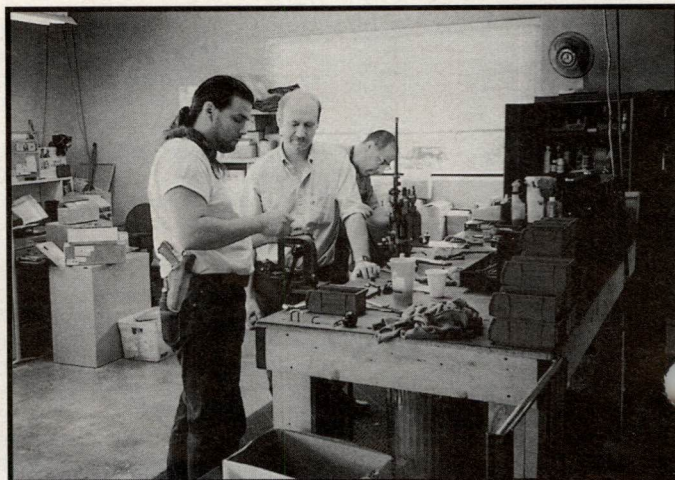
Presses are on display to demonstrate how the machines work.

brand new building in the Phoenix suburb of Scottsdale. Dillon Precision offers a wide variety of products ranging from videotapes to reloading tools and supplies.

They print what has been called a stealth catalog named *The Blue Press* which looks more like a small magazine, features lots of photos of pretty girls, and is free to any-



The whole line of Dillon products is available at the new facilities storefront.



Many employees carry...

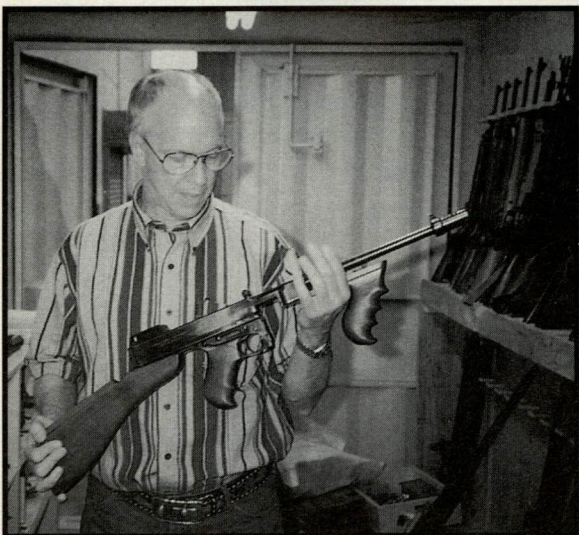


one who requests a subscription.

While visiting Dillon Precision, I got to wander through their production facility unescorted and talk with employees about all aspects of their operation. Everyone actually seemed to enjoy working there. Who wouldn't enjoy working at a place making a first-rate product which places great value on customer satisfaction and which lets employees openly wear sidearms? Yes, most employees are avid shooters and many follow the common Arizona practice of going about with an unconcealed firearm on their belts. Mind boggling!

I'm used to Indiana where getting a concealed carry permit is easier than getting a driver's license renewed. In Indiana, a lot of people are armed and nobody seems to mind as long as the gun remains discreetly out of sight. It is, however, really something to see so many loaded guns in evidence and nobody paying any particular attention. Except tourists from California! They seem to stare in bewildered concern and look around as if waiting for a policeman to arrest everyone.

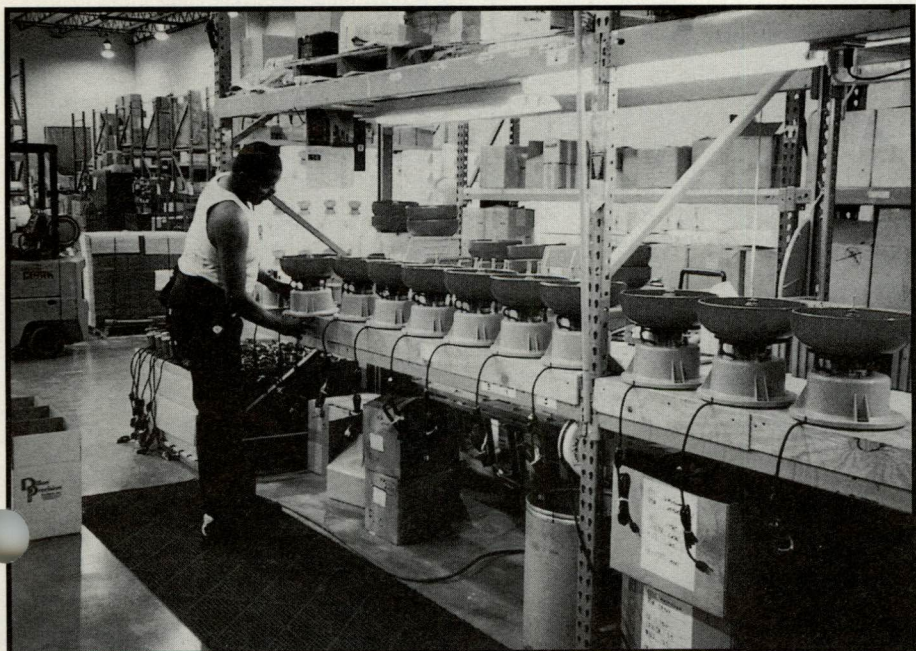
I asked Mike Dillon how he came to initiate the business of making reloading presses. An avid admirer of the many simple yet brilliant features of his products, I



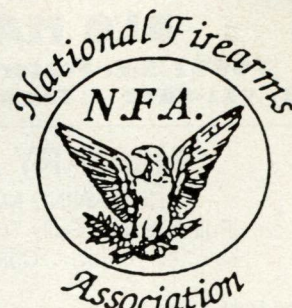
Mike Dillon holds his first machine gun which helped start it all.



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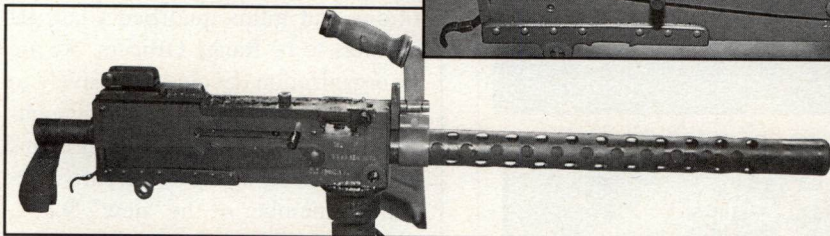
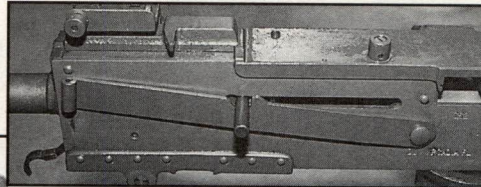
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1-8 lb. can \$10.00 lb. fgt. paid \$80.00 (8 lbs.)	2-8 lb. cans \$9.37 lb. fgt. paid \$150.00 (16 lbs.)	4-8 lb. cans (case) \$8.90 lb. fgt. paid \$285.00 (32 lbs.)	12-8 lb. cans (3 cases) \$8.85 lb. fgt. paid \$850.00 (96 lbs.)
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1-6 lb. can \$10.00 lb. fgt. paid \$60.00 (6 lbs.)	2-6 lb. cans \$9.16 lb. fgt. paid \$110.00 (12 lbs.)	4-6 lb. cans (case) \$7.50 lb. fgt. paid \$180.00 (24 lbs.)	16-6 lb. cans (4 cases) \$7.29 lb. fgt. paid \$700.00 (96 lbs.)
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#### Attention .223 Reloaders

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\$7.81 lb. fgt. paid  
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#### We Also Stock

WC-680 WC-846  
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#### \*Attention .30-06 Browning Shooters—New Winchester—New Links—New Cans.\*

1 can (250) \$125.00 per can \$125.00 fgt. paid	2 cans (500) \$110.00 per can \$220.00 fgt. paid	4 cans (1,000) \$105.00 per can \$420.00 fgt. paid	10 cans (2500) \$100.00 per can \$1,000.00 fgt. paid
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#### \*Attention .223 Shooters—Your Choice of 62 gr. (SS109) or 68 gr. Match.\*

1/2 case (500 rds.) 25¢ rnd. fgt. paid \$125.00 fgt. paid	1 case (1,000 rds.) 24¢ rnd. fgt. paid \$240.00 fgt. paid	2 cases (2,000 rds.) 22 1/2¢ rnd. fgt. paid \$450.00 fgt. paid
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#### \*Attention .45 Auto Shooters—New 230 gr. Full Metal Jacket Ammunition.\*

5 boxes (250 rds.) \$12.00 box of 50 \$60.00 fgt. paid	10 boxes (500 rds.) \$11.00 box of 50 \$110.00 fgt. paid	20 boxes (case of 1,000 rds.) \$10.50 box of 50 \$210.00 fgt. paid
--	--	--

We have for sale two link orientation machines for S.A.W. .223 (5.56 mm) links. They were originally designed for use in The Lake City U.S. Army Ammunition Plant. They are in excellent condition and run perfectly. They are completely mobile with 25-foot electric cord and air hook-up. The shipping weight is approximately 1,250 lbs. each. These machines are set up to run in conjunction with a military linking application. For further information call (207) 732-4979.

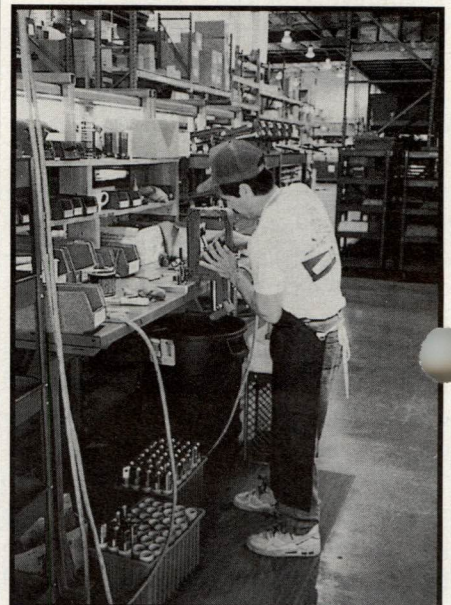
To Order: Send certified funds, including your telephone number, with a clearly-printed order that states a street shippable address for UPS. (Not a P.O. box.) Send order to:

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was surprised to learn that this gifted designer was not even an engineer. Years ago, Mike Dillon acquired a Star progressive reloader and a Thompson submachine gun from the widow of a friend who was killed in the crash of Mike's AT-6 WWII trainer aircraft.

The Star reloader worked well for .45 ACP but would not load rifle cartridges. So, when Mike bought an M16, he modified the loader to load that caliber. The kit he developed to convert the Star to accept .223 became the first "Dillon" product, though it was marketed under the name of Super Star Manufacturing.

A lot of customers didn't want to convert their Star tools. They wanted a whole



A busy employee assembles press to order.



Mike's gun vault is a dream come true. Mini-guns litter the floor.



unit, so Mike started buying new Star machines and modifying them for sale. Then customers started asking for conversions to .308 and .30-06. By now Mike had a 1917 water-cooled Browning, so the idea of a .30-06 machine was appealing, but the Star machine couldn't be stretched that far. Further, the limited sales of the Super Star kits clearly indicated that modifying another person's product was not very good business.

Mike set out to design a completely new reloader: a "Dillon" machine that would do all the things the Star wouldn't. In addition to adding auto indexing for the shellplate, the Dillon RL (Rapid Load) - 1000 would also swage the crimp out of military primer pockets. Now a military surplus cartridge case could be deprimed, decrimped, and reloaded in a single pull of the handle.

The Dillon RL-1000 sold for \$2500 and Dillon had a hard time keeping up with the orders. Next came the four-station \$365 progressive that Dillon called the RL-300. The "300" rapidly transformed into the RL-450. It was an immediate success: the first good progressive to sell for less than \$1000 and the only progressive that would load virtually any caliber.

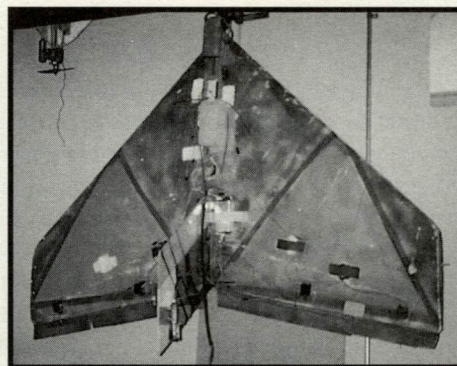
Mike knew that it was only a matter of time before the big companies jumped on his designs. To protect himself, Dillon went to direct marketing. "It was a scary move," said Mike. "If it didn't work, we would be out of business. We spent every dollar we could raise on advertising—\$30,000." Dillon calculated that they had to sell 500 machines, a 100 percent increase, to break even. But at the new price of only \$185, they sold 5000! And so it began....



Aerial view of the new Dillon Precision facility.

Dillon Precision has grown a lot since that first limited production run. They recently relocated to a new facility designed specially for them and decorated in their trademark Dillon Blue color. Happy little elves build, pack, and ship more presses everyday and their boss takes breaks from the very hectic office routine to walk out back and burn off a little stress by flying his Hughes 500D helicopter around the building a few times. He also likes playing around in the huge arms room containing a wide variety of machine guns including thirty or so G.E. Electric Mini-guns. Dillon has a private shoot in the desert from time to time in which they shoot down radio-controlled target airplanes made from styrofoam. I must be dreaming.....

MGN



Remote controlled styrofoam drones are used for target practice at Dillon shoots.

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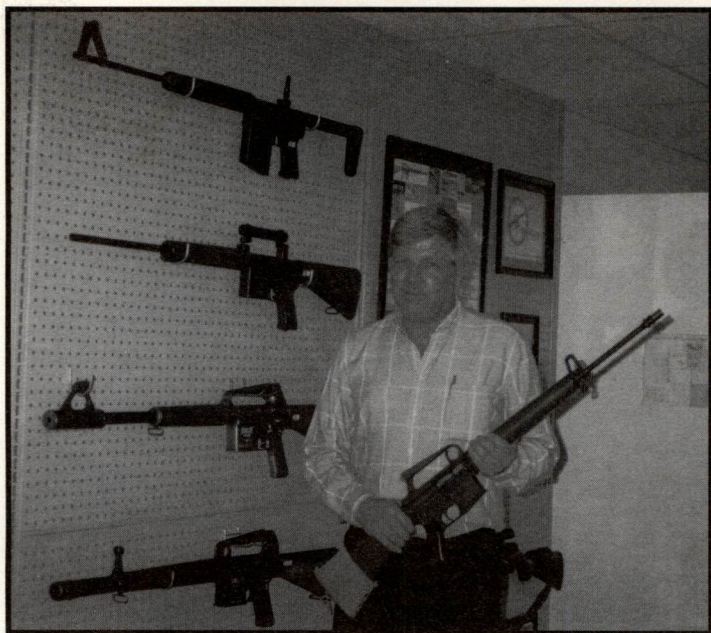


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C. Reed Knight, Jr. holding AR-15 #1. In background, top to bottom: Stoner Model M8 (AR-10 #1), AR-10 #2, AR-10 #3 (AR-10A), and AR-10 #4. Photo: Dan Shea

## Reed Knight

C. Reed Knight, Jr. has been involved with the Stoner series of firearms for most of his adult life. Since his youth, hunting and targeting in the citrus groves around his home in Florida, the shooting sports have been a part of him. An avid target shooter, sportsman, and collector, Reed traveled to the shooting events and gun shows in the late 1960's and early 1970's. He found an interesting barrel at a show, which turned out to be a Stoner 63A machine gun barrel. His curiosity piqued, he investigated. The trail of parts and stories led him to the Stoner family of firearms, and Reed devoted his attention to them. His interest was mainly in the Stoner 63 series. In the Mid 1970's, SEAL Team 2, who had been the original user of the Stoner 63 in Vietnam, was looking for someone to repair their inventory of Stoners. Knight was introduced to them, and he used his expertise and inventory of parts to get their guns up and running again. This initial contact with the SEALs established him as an expert on the Stoner and a potential vendor for exotic weapons.

Soon he was repairing their suppressors and designing and building new systems for the covert-operations community. His company, Knight Armament Company, has become synonymous with quality and innovation in these designs, and his accomplishments include the SOF suppressor on the newly-adopted HK Offensive Handgun, the Rail Interface System for the M4 Carbine, and the SR-25 rifle, which is the natural heir to the Stoner designs.

Knight has continued his passion for the Stoner firearms by gathering a working reference collection. This entailed a lot of detective work: tracking individual pieces, assembling them into the collection, and studying all of the various Stoner designs. In the course of his search, Reed has become close friends with Gene Stoner. Over the last ten years, this friendship has been characterized by Gene imparting to Reed much of the knowledge he has gained in his fifty years as a weapons designer. It is through Reed's help that these Chronicles are possible.

## Armalite Models

**AR-1** .308 caliber, bolt action, utilizing either the Remington 722 Mauser action, fiberglass stock. Called the "Para-sniper." Prototype. Less than 25 made. AR-1 utilized a hammer-forged Aluminum barrel and steel liner.

**AR-2** Possibly "parasniper" lightweight. Sometimes noted as a T-35 design by George Sullivan.

**AR-3** (Stoner Model M7) .308 caliber, aluminum receiver, semi-automatic, fiberglass furniture. Prototype only—one made.

**AR-4** Design only—reserved number.

**AR-5** (Air force model MA-1) .22 hornet survival rifle. Bolt action, aluminum receiver. Fiberglass buttstock that the takedown receiver and parts are stored in.

**AR-6** Design only—reserved number.

**AR-7** .22 cal semi-auto, take-down rifle. Aluminum receiver, oversize plastic buttstock that stores the parts. This became the "Explorer" survival rifle.

**AR-8** .270 caliber bolt action lightweight sporting rifle.

**AR-9** 12 ga. Aluminum and fiberglass, lightweight semi-automatic shotgun with muzzle brake—prototype only.

**AR-10** .308 caliber series, select fire rifles. Aluminum receivers, fiberglass furniture—full production.

**AR-11** .222 caliber select-fire rifle—prior to AR-15 series. High rate of fire, design was similar to AR-3—prototype only.

**AR-12** AR-10 variant in .308 caliber, made from steel stampings. Previously thought to have been only a design, a prototype was, in fact, manufactured. This gun was designed to be a less expensive AR-10.

**AR-13** Multi-barreled hypervelocity gun, designed for aircraft use. Prototype design. Necked down .50 cal cartridge. Some parts manufactured.

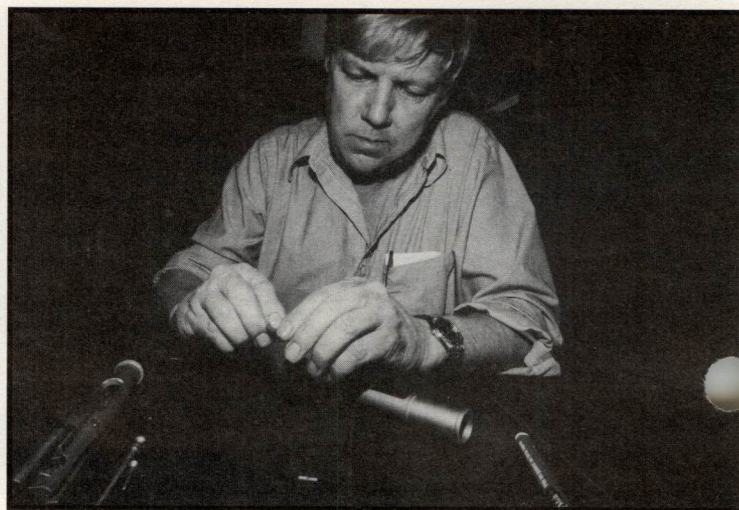
**AR-14** Similar in appearance to the AR-17, this was an AR-10 made as a sporting rifle. .308 caliber semi-automatic. Aluminum receiver, fiberglass furniture—design only.

**AR-15** .223 caliber select fire. Aluminum receiver, fiberglass furniture. Full production. Forerunner of M16.

**AR-16** .308 caliber select fire. Sheet metal stampings, wood furniture. Prototype—three were made.

**AR-17** 12 ga. Aluminum and fiberglass lightweight semi-automatic shotgun, production model. Sporting arm. Hundreds made.

**AR-18** .223 Scaled down AR-16, done after Stoner left Armalite—by Art Miller. Sheet metal receiver, stamped parts, plastic furniture. Both select fire and semi-automatic (AR-180) versions were made. Production was in three countries: U.S., U.K., and Japan.



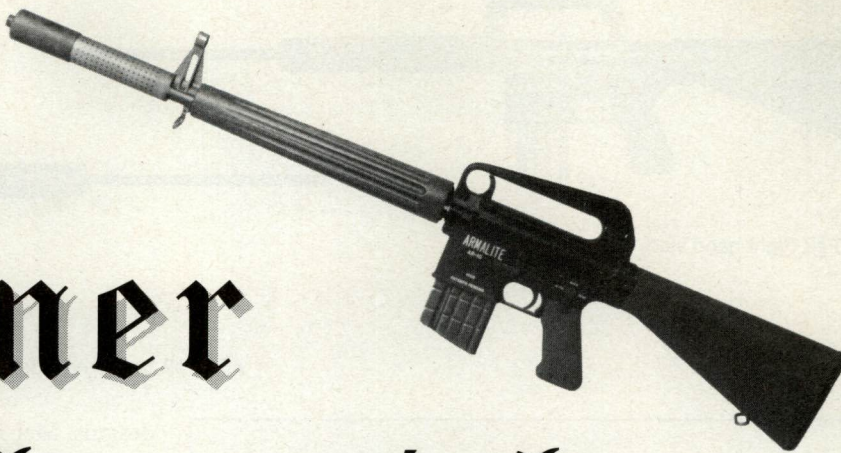
Stoner historian Reed Knight disassembling Stoner prototype.



# The

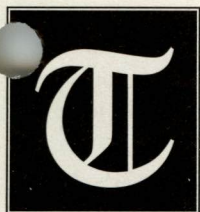
# Stoner

# Chronicles



## Part II: Metamorphosis

*Text: Dan Shea Photos: Jim Bonis*



here is a bond between all men-at-arms: a common life-thread that runs between the hunter, the soldier, the warrior. The designers and makers of weaponry are an integral part of this and are usually hunters or soldiers themselves. The knight had his trusted swordsmith—a man usually knowledgeable in swordsmanship as well as smithing. The warrior king had his chief armorer. Many times his duties would include the supervising of the training grounds. Grave was the responsibility of the weaponsmaker—his skill would keep the men of his kingdom alive, or his lack of it would lead them to a certain death in battle.

Nineteen hundred and fifty-five was a very good year for America. The men who had fought the Second World War were home, and by now had time to settle into their new lives. The Korean War ended, and the Cold War was in its early growth. Each day there was a new discovery: miracle metals, new propellants, fiberglass, communications, even outer space was opening in front of us, and America was a place filled with promise. It was into this environment that the men who formed the Armalite Division of Fairchild found themselves. The possibilities were endless, and the future was bright.

Here our Chronicle rejoins Eugene Stoner in the decade following the Second World War.

The Armalite Division of Fairchild Corporation had four main players at its conception. George Sullivan, the engineer/patent researcher/visionary who had a concept of aluminum-barreled lightweight sporting rifles, became the president of Armalite after meeting with Richard S. Boutelle, Fairchild President. Boutelle was a firearms enthusiast of the highest caliber, and he was in the process of looking for products for Fairchild to expand to, outside of the aircraft industry. Sullivan's concepts of the lightweight

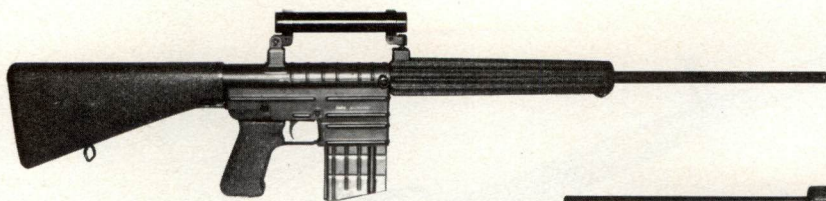
rifles fit into Boutelles' interests, and seemed a sound investment direction for the company. Sullivan chose his brother-in-law Charles Dorchester as the Armalite Plant Manager. Dorchester had been Sullivan's research assistant previous to the forming of Armalite, and his first project with Armalite was the completion of several variants of the AR-1 parasniper. The fourth man necessary to the formation of Armalite was Eugene Stoner, with his designs. These were men of distinctly different personalities; each had his own positive and negative features. It is not pertinent to our Chronicles to delve into them at this point, only to make the reader aware of it.

Armalite was only funded as a research and development investment for Fairchild, whose board of directors backed the idea of the research, but wanted any production investment to go through their own investigations first. As noted in Part I of "The Stoner Chronicles," Gene Stoner met George Sullivan quite by accident while out shooting his new Stoner M6. We have followed Stoner's early prototypes, each developing one of the major features of his work. AR-10 #1 (Stoner Model M8) had introduced the new gas unlocking system, yet was still in a steel receiver. It was necessary for Gene Stoner to make one more prototype before he could bring the gas system and the aluminum receivers together in one new rifle. That prototype is called "AR-10 #2."

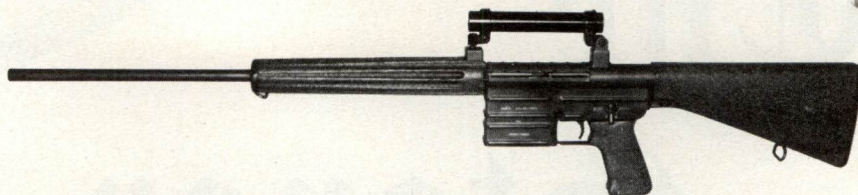
### Stoner's AR-10 #2

In February 1955, Gene Stoner built his first all Armalite AR-10 prototype. He utilized the gas system from the Stoner M8 (AR-10 #1), and his eight-lug bolt-locking design. The bolt head/barrel extension design itself owes much to Mel Johnson's work on the Johnson Automatic Rifle and 1941 machine gun. Interestingly, when Armalite moved further into their marketing with later

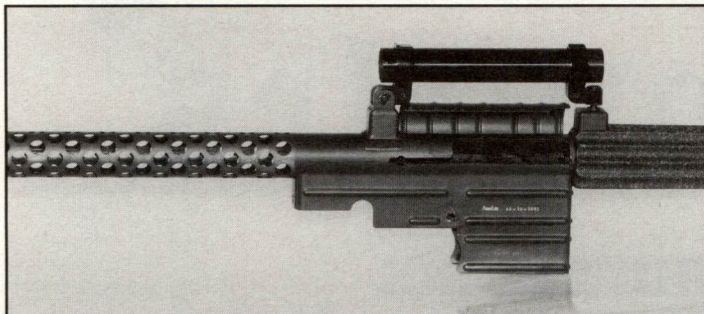




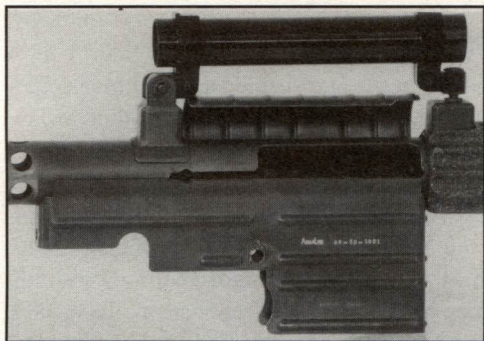
AR10 #2 Right-hand side.



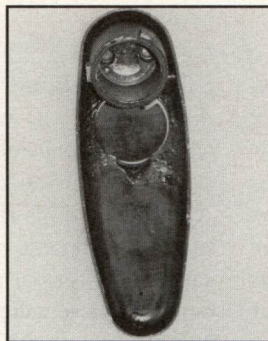
AR10 #2 Left-hand side.



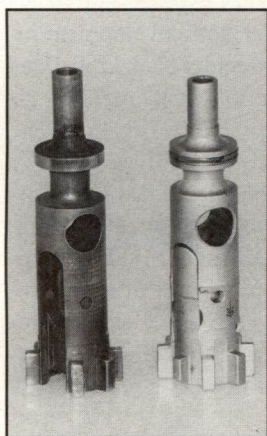
AR-10 #2 Pistol grip and buttstock removed. Note perforated buffer tube section.



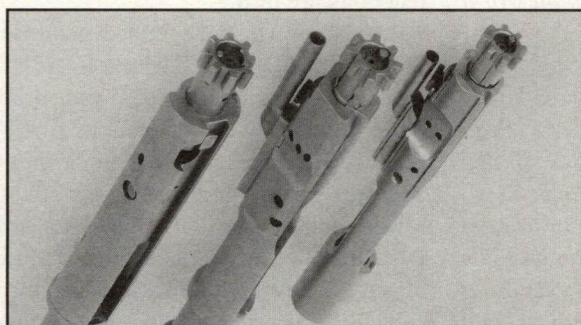
AR-10 #2 Right-hand side. Note wrap-around dust cover.



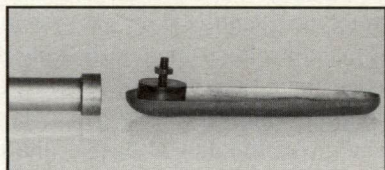
Buttstock plate showing cleaning kit port.



Left: bolt from AR-10 #2—now has a "tail" section at the top, providing gas expansion space, no gasrings as yet, and the cam hole is sharp—not chamfered. Right—AR-10 bolt in later development—gas rings, chamfered cam hole.



Left to right: AR-10 #2 bolt carrier. Note the gas port in the side, and the keyway slot on the bottom in this photo. Center: AR10 bolt carrier, inverted to the first bolt. Note keyway block, gas tube connection, and gas escape ports. Right: M16 bolt carrier inverted to the first bolt. Note how the gas tube connection is much shorter and does not extend over the bolt.



AR10 #2 buttstock shoulder plate, showing buffer end of bolt carrier assembly.

designs, Mel Johnson actually worked as a consultant and publicist for Armalite.

The receiver of AR-10 #2 was manufactured using sheet steel. It is marked Armalite AR-10-1001. The selector has semi to the front, auto to the rear, and safe in the center position. This selector position with the safe in the middle doesn't change until later in the AR-15 series when the U.S. Military testing showed that the soldiers could accidentally change this position to semi by dragging it against objects in the field. This would lead to a hazardous situation.

Stoner made this firearm with a dedicated sighting system in mind. The gun uses a German ZF4 telescopic scope: the same that was used on the G43 rifle in World War II. This may not have been a popular choice in the post-war years (anti-German sentiment still ran high), but it was a fine scope, suited to the caliber, and was readily available at the time. The original scope is missing, and was replaced at some point with a new one that is marked "Japan," "X1," with the number "5016" above it. In the famous photo of Gene Stoner that appears on page 30 of R. Blake Stevens and Edward C. Ezell's excellent book *The Black Rifle*, AR-10 #2 has the same Japanese scope on it. That photo came from *Guns* magazine, March 1957 issue. It would be a pretty sure bet that the scope on this prototype was replaced sometime in 1956.

There are iron sights built into the rings on the top side of the scope. The scope was set up so that the rear mount did windage by traversing at the rear base with a set of screws. Elevation was accomplished using a small flat wrench that slid in under the front mount, around a nut that was turned to raise and lower it. The mounts are well thought out for placement and spot welded to the receiver. They seem "specific" to this scope, so it gives the appearance that this scope was planned to be used with the AR-10 #2 system. If you consider modern rifles with similar sighting systems, (rifles having a fully dedicated scope) the Steyr AUG comes immediately to mind. Only the fixed iron sights on the scope rings are intended for other than telescopic sighting.

The decision had been made to drop the .30-06 cartridge because of the prevalence of the 7.62x39mm cartridge (here-after referred to as .308 for purposes of shorthand) in the military trials. NATO had adopted this cartridge in January of 1954, and the scaled-down .30 caliber cartridge had great promise. Hard hitting and accurate, .308 caliber was all the



rage in the world armament circles. This is the first AR-10 that used a nonferrous metal magazine; Stoner had to fabricate his magazine for this rifle. The magazine that is placed in AR-10 #2 in these photos is not the correct magazine for it although it is the correct format. We did not have the "waffle" magazine that was original with this firearm.

AR-10#2 has a steel tube receiver with a spot-welded-on magazine housing very similar to model M8. The tubular receiver extends all the way to the rear of the buttstock and is perforated in the section that is encased in the buttstock, possibly for weight reduction. At the front of the receiver, the steel barrel and extension are installed in the same manner as for Stoner M8: spot-welded directly to the receiver.

The trigger housing is held at the forward end by a pin with a C-clip on one side so that it will rotate down at the back. It still has the sheet metal wrap-around trigger guard that is a one-piece unit, and it is necessary to remove the bolt that holds the pistol grip on in order to remove it. The rear of the trigger housing is held in position by the buttstock detente. There are three axle pins on the AR-10 #2 trigger housing: the hammer, the trigger, and the auto sear. The axles are each retained on each end by fitting up inside the sheet metal receiver. Both sides of the trigger housing metal are recessed in order to give the pins better position. At this point in Gene Stoner's design, the pins are not retained by spring tension, with the exception of the trigger pin. This pin picks up the spring load on the hammer; it has the little indentations in it where the tails of spring sits.

The buttstock itself is an interesting piece. Here Stoner brings in one more thread of the fabric of the AR-10 series: George Sullivan's innovation from the AR-1—the foam filled fiberglass shell system. A fiberglass shell is formed, then a sheet metal form is placed inside for the buffer tube/receiver extension to slide into. The balance is filled with a strong foam.

AR-10 #2's buttstock is removed by withdrawing the screw that holds the lower part of the shoulder plate, then twisting the plate to the side (a large interrupted lug is welded inside the plate). Remove the recoil spring and bolt carrier. Pull back the pin that's on both sides of the forward part of the stock, the point where the buttstock joins the receiver, and twist one way or the other and the whole assembly disconnects from the rear of the receiver system.

We then removed the pistol grip, which is a sheet metal assembly. The hammer is similar to that of the Stoner M8, as are the trigger system and disconnecter system. The selector is built into the lower housing, and the auto sear looks very much like a modern-day M16 auto sear. The main difference would be that it's very heavy on one side, and the leg that comes down is on the opposite side from a modern M16. The pistol grip itself is solid brown fiberglass, with a hole up through the center for an attaching screw.

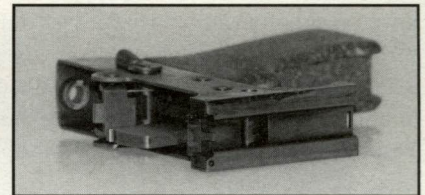
Up inside the AR-10 #2 receiver, you can clearly see the M8 rail is riveted up inside. The channel on the bolt carrier mates up to the rail. Gas is still taken directly into an open port in the side of the carrier, but now, in addition to the tail section on the bolt opening an expansion chamber, there is a slot on the left-hand side of the carrier that vents the released gas out into the receiver. The tail on the bolt does not have gas rings on it yet, but it



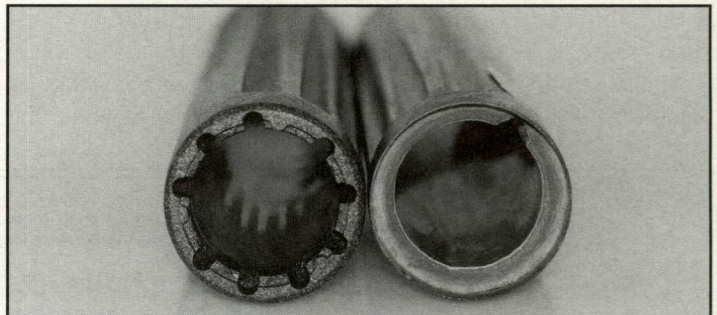
AR-10 #2 Pistol grip/trigger assembly hammer is forward. Note safe in the middle position.



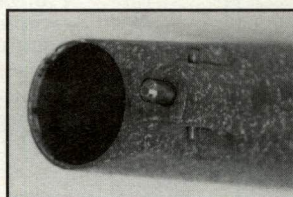
AR-10 #2 Pistol grip/trigger housing hammer is cocked. Note auto sear.



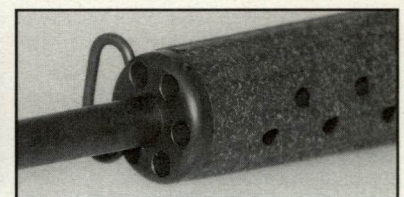
AR-10 #2 Trigger assembly. Note sear and hammer in grooves for it to slide into receiver.



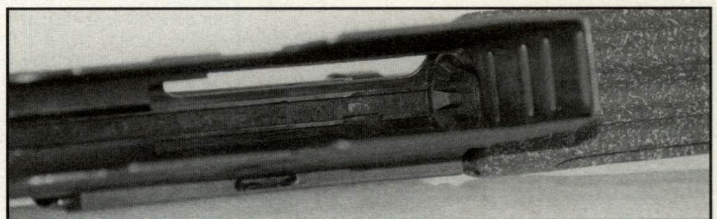
Before and after finish of the one-piece AR-10 forend. Note fiberglass shell, internal metal heat shield, and foam filling.



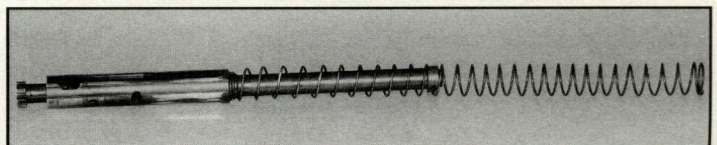
AR-10 #2 Buttstock detent pin.



AR-10 #2 Front of forend and gas block.



AR-10 #2 Inside of sheet metal receiver. Note keyway for cam.

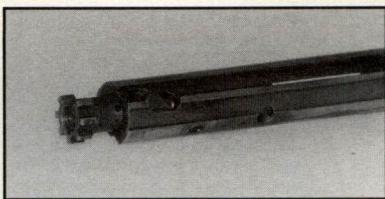


AR-10 #2 Bolt carrier assembly with recoil spring. Note buffer is still attached to bolt carrier.





AR-10 #2 Bolt carrier. Note gas takeoff port.



AR-10 #2 Bolt in retracting position.

is apparently designed to block the gas from coming back into the cam slot.

#### Some other features of the AR-10 #2 that are of interest:

1. AR-10 #2 still has sharp corners on the cam hole.
2. The firing pin still utilizes a return spring.
3. Stoner utilized a reciprocating bolt handle, attached directly to the bolt carrier. This handle travels during recoil.
4. There is a new magazine operated bolt stop that hits the follower as it comes up under the last round. Magazine spring pressure raises the stop when the bolt carrier recoils past it, stopping the bolt carriers forward motion. When a new magazine is thrust in, it does not automatically release the bolt carrier to go forward. You have to manually pull the bolt operating handle back to release the bolt stop.
5. The gas system tube is still on the left-hand side, taken off in the same manner as on M8.
6. The front sling swivel mount is through the gas block, and it has a full motion. The rear sling swivel is molded into the buttstock.
7. Magazines are released by pushing forward on a rectangular "button" at the front of the trigger. The release is ribbed on the

back and is about an inch wide and under spring tension.

8. There is an interesting wrap-around dust cover, made out of ribbed sheet steel. The cover is under spring tension and lifts and to the left for firing. Pulling the charging handle to the rear lifts it up. Since the charging handle reciprocates with the bolt carrier, no manual "thought" is required to open the ejection port.

*George Sullivan wasn't an attorney, he was a patent "investigator" for a number of airplane companies in California. He was a mastermind in looking at all the patents that had been issued to inventors during the war. He gained a lot of knowledge of the new lightweight aluminum technology, as well as fiberglass composites that utilized foam filling.*

*In a business enterprise, everyone must bring something to the table. George Sullivan brought the new aircraft aluminum which was called 7075, as well as the fiberglass technology. Charles Dorchester had his experience prototyping on the AR-1. Richard Boutelle, along with his obvious connection to financing through Fairchild, had many connections for military contracts, as well as a passion for firearms.*

*Eugene Stoner brought the key ideas for the firearms themselves. On his own, he had built the aluminum receiver M5 and M6, as well as the innovative gas system in the Stoner M8 (AR-10 #1). At Armalite, he continued blending the work he had done in the other prototypes with the ideas available in his new environment. In 1955, Stoner proceeded with the AR-10 idea, finally bringing all of the new technologies together in one rifle, called the AR-10 "A." For historical purposes, this firearm is referred to as "AR-10 #3."*

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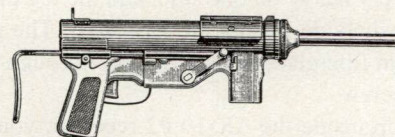
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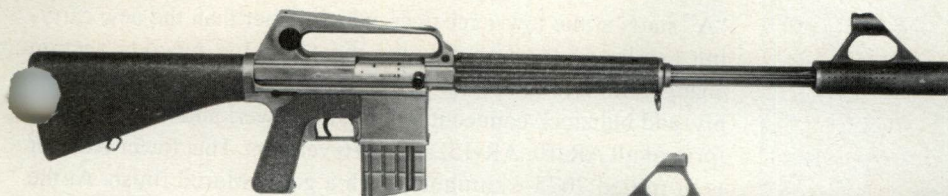
Everything in ad is original GI.

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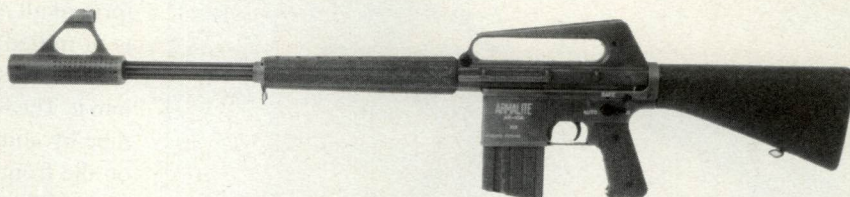


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AR-10 #3 Right-hand side.



AR-10 #3 Left-hand side.

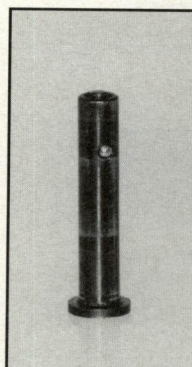
## AR-10 #3: The AR-10A

After almost a full year's work, AR-10 #3 was delivered to the Infantry Board and School at Fort Benning in December 1955. This was the "crunch" gun, where Eugene Stoner brought it all together: machined aluminum upper and lower, new gas system, foam filled fiberglass stock and forend, eight-lug bolt, George Sullivan's aluminum barrel with steel liner and barrel extension, and a new muzzle brake system. Stoner and Sullivan personally delivered it to the Board, and impressed the Ordnance professionals there. Military supporters of Armalite had insured that the AR-10 would be shown, and once it was there, it drew a tremendous amount of attention. Over the next few months, tests were run constantly, in many places, exposing the new system to all kinds of scrutiny. It became a given that Armalite would be a contender in the coming trials for a new military rifle. Unfortunately, there was not a lot of time or experience with this lightweight system, and despite Armalite's glowing publicity campaign, the going was rough. Other models were already well situated in place, and their ardent supporters had drawn up sides.

*In AR-10 #3, the true form of the general AR-10 is now evident. Like the caterpillar that turns into the butterfly, what started as a rather ordinary looking sporting rifle in Stoner M5, had now undergone a transformation into something stunningly beautiful and exotic. To the modern eye, in 1996, AR-10 #3 may just be another "black rifle." For the dynamo that was America in the Nineteen-fifties, it was seductive; this was a "Space Age" weapon. The image of the AR-10 caught the eye of the arms progressives, and the performance levels seemed to match the promise of the exotic form.*

Stoner made AR-10 #3 with an upper and lower receiver that slid together on full-length rails. There was one takedown lever at the right rear of the pistol grip, where the receivers met, and it was captured by a detent. When the lever was rotated down, the upper slid off to the front. These upper and lower receivers were planned to be forged 7075 aluminum but were actually a machined part; forging dyes are very expensive. Armalite was not ready to commit to this as a final design—it was a prototype.

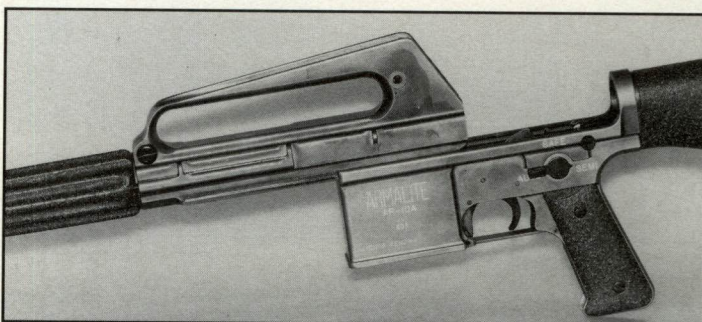
This examination of the AR-10



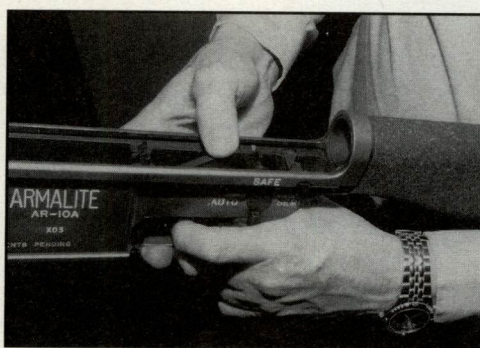
Take down pin with detent.



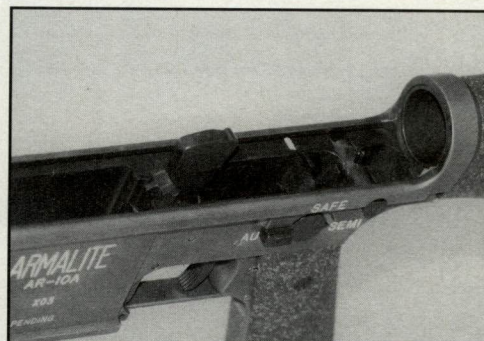
Left-hand side armalite markings "AR10A" "X03." Note safe is in the center position.



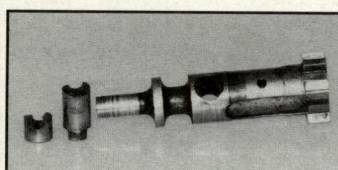
AR-10 #3 Upper receiver sliding to the front for removal.



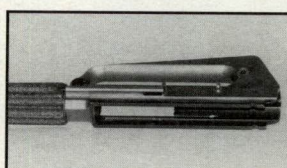
AR-10 #3 Hammer being demonstrated by Reed Knight.



AR-10 #3 Internal of lower receiver. Note bolt hold open, hammer to the front.



Bolt for AR-10 #3. Cam pin is broken at firing pin hole, which was not chamfered—no gas rings.

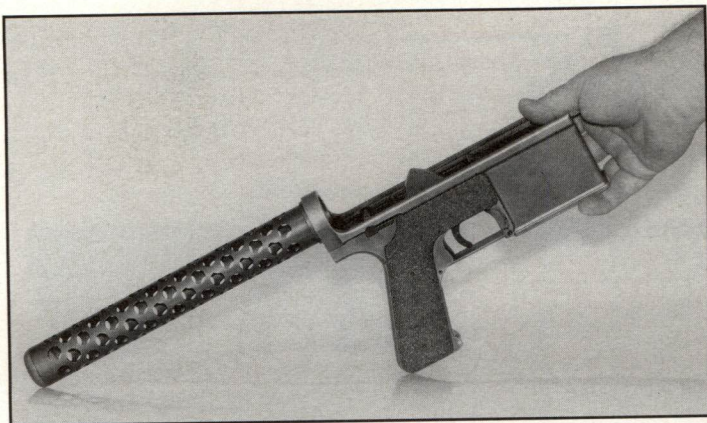


AR-10 #3 Upper receiver. Note the pin positions on the left-hand side, as if for a dust cover similar to AR-10 #2.

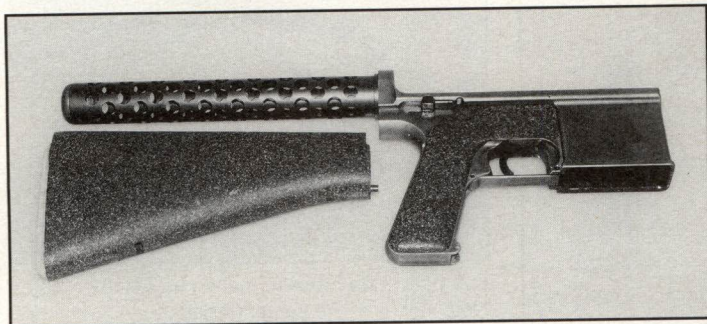


AR-10 #3 Front gas port block, showing aluminum barrel ridges.





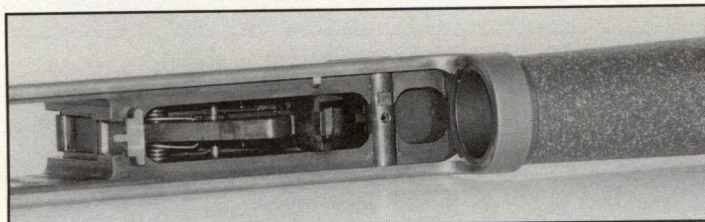
AR-10 #3 Perforated buffer tube, right-hand grip is one piece.



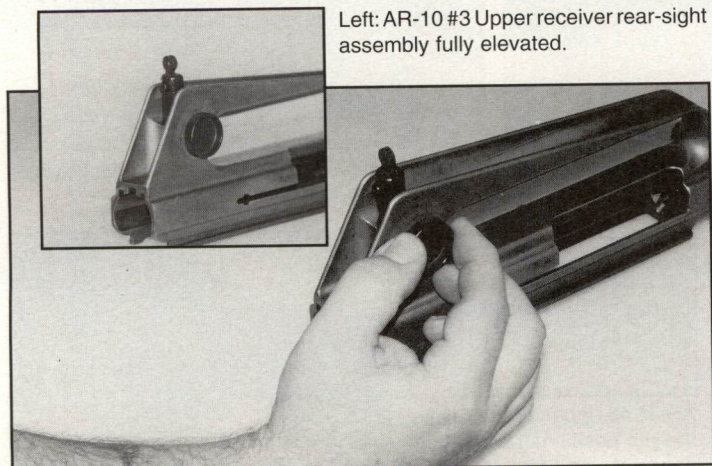
AR-10 #3 Buttstock showing detent connection.



Grips removed from AR-10 #3 lower.



AR-10 #3 Internals of lower receiver.



Left: AR-10 #3 Upper receiver rear-sight assembly fully elevated.

AR-10 #3 Elevating rear sight.

"A" starts at the lower receiver, which, other than the new carrying handle on the upper, is the most striking receiver section change. Stoner put the magazine well, pistol grip, trigger assembly, and buttstock connection all on the lower: almost exactly the form of all AR-10, AR-15, and M16 variants. That lower receiver is of milled 7075 Aluminum, with a gold colored finish. At the upper rear is a threaded section, which has a buffer tube threaded into it. The foam-filled fiberglass buttstock is attached to the buffer tube by sliding it up over the buffer tube, keying the protrusion on the front of the buttstock into the corresponding well on the rear of the receiver, and inserting the buttstock screw into the rear. There is no cleaning kit storage section in the solid sheet metal buttcap. This is the first Stoner design where screws appear on the buttcap: one screw at the bottom to go into an internal form to put the cover on, the upper screw holding the 3 phenolic and one steel washer in position as a buffer. The bolt carrier is still the same length as the AR-10 #2, with a buffer as part of it, but there is no longer any buffer spring on it. The phenolic washer system is used to replace it.

AR-10 #3 is marked "ARMALITE" on the left side of the magazine well, model numbered "AR-10A" with a serial number of "X03." "Patents Pending" is at the lower edge, and this is the first Stoner design that has that marking. The right-hand side has no markings and has a "slabside" magazine well. Selector markings are "Auto" to the front, "Safe" at the center, and "Semi" to the rear. It has a sheet-metal magazine release that is formed differently than the one on AR-10 #2, although it is still inside the trigger guard, and is activated by forward pressure. Magazines for the AR-10 #2 and #3 were "waffle" type but had a slot in the upper rear for the mag catch to lock into. AR-10 #3 is also where Stoner started with the winter trigger guard. Since he had done away with the separate trigger housing, a single metal strip was roll-pinned in at the rear and detent captured at the front. Push the detent, and the metal strip rotated down and flushed into a groove in the pistol grip, allowing the operator to use winter gloves.

Stoner's new upper receiver is shaped to be a handguard with a sight trough built into it and is split at the upper front where the barrel extension slides in. The barrel extension is secured with a bolt that is tightened for compressing the split receiver. This is the only firearm of the Stoner series that I examined that utilized this method. The other aluminum receivers were heat-shrunk on, and the steel tube receivers were spot-welded in place. The original barrel for this model was a steel one, and it was later replaced with the steel-lined aluminum barrel that George Sullivan favored.

The upper appears to have been formed up with some ribs and pin positions on the left-hand side for installing a dust cover base. There is no record of a dust cover that was made for the gun.

The gas system is still located on the left-hand side of the rifle, but the gas block around the finned aluminum barrel is back approximately three inches from where we initially thought it was. It was underneath the handguard. It's a special two-piece assembly that's clamped on with two Allen screws that grab the gas tube assembly and hold it in position.

We had been watching for the signs of stress on the firing pin hole in the cam pin and on the cam pin hole in the bolt. Each hole we looked at up to this point had sharp edges. In AR-10 #3, the cam pin fell in half as we disassembled it. The stress developed in firing had cracked it clean in half. Later models have a cham-



ferred edge around these holes.

### Other features of AR-10 #3

It has a reciprocating bolt handle on the right-hand side of the firearm, attached to the bolt carrier.

2. The rear sight is loosened with an Allen wrench, and it can be set in position for traverse. Elevation is accomplished by a drum on the right-hand side.

3. The bolt carrier has a key on the top of it that runs in the track in the upper receiver.

4. The front sling swivel is now mounted with roll pin to a base through the gas block portion.

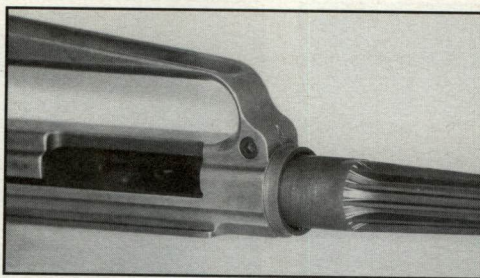
5. This is the first application of the new muzzle brake system.

6. The front sight has a roll pin driven inside the aluminum hood formed on the new muzzlebrake.

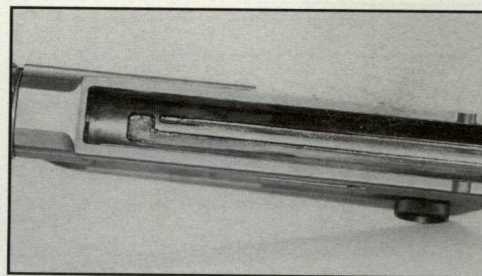
7. The first appearance of a chamfer on the bolt carrier channel that allows the magazine to move closer to the bolt.

*Fairchild Corporation pulled out all the stops in a behind-the-scenes publicity campaign for the new AR-10. Heavy lobbying was being done by Boutelle and his directors. Their connections with the Air Force were very excited about the new rifle, and there was a lot of communications back and forth about desired features, and possible changes. Charles Dorchester was in charge of developing new markets, and he was pushing hard. The end result here was that the Armalite team was trying to show firearms that they hadn't even produced yet, and Stoner was scrambling to get the AR-10 into a final form, ready for market.*

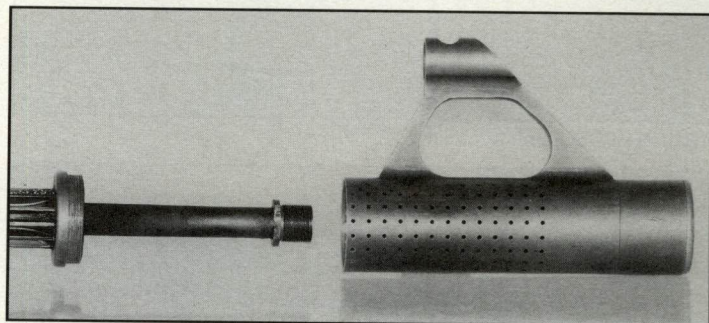
*Stoner and his technical staff of L. James Sullivan and Robert Fremont managed a "coup" with the fourth model of the AR-10. They produced a limited run for the military testing, and delivered them by December of 1956.*



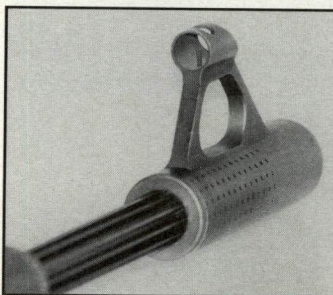
AR-10 #3 Note how barrel extension goes into upper receiver and is held in with a compression bolt.



AR-10 #3 Inside upper receiver. Note cam slot.



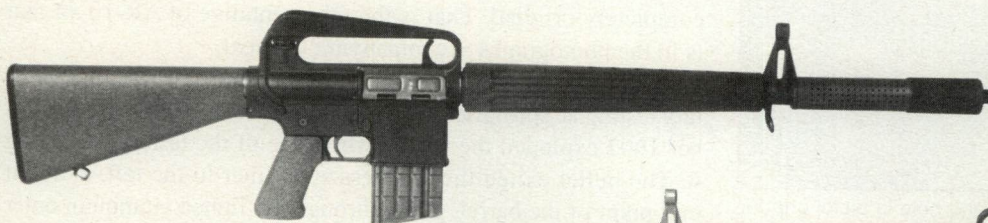
AR-10 #3 Muzzle brake removed showing steel barrel liner.



AR-10 #3 Muzzle brake and front sight assembly. Front sight is a roll pin.



AR-10 #3 Muzzle brake.



AR-10 #4 Right-hand side.

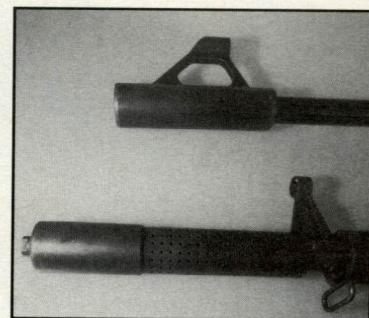


AR-10 #4 Left-hand side.

## AR-10 #4

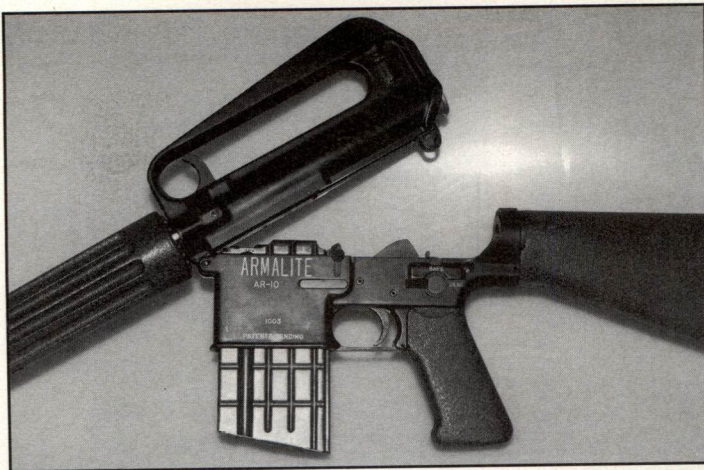
The AR-10 #4 was initially referred to as the "AR-10B." Armalite built five of them: serial number 1001, 1002, 1003, 1004, and 1005. These were all built at the same time. There were about five AR-10's manufactured by Armalite, that would be typical of the American AR-10. One of the defining characteristics that will immediately tell you that you are looking at one of these first five AR-10's is that "Armalite" is written in large letters. AR-10's built after these have a much smaller type size in the name. Serial numbers 1001 and 1005 experienced a number of different

changes and are no longer original. Serial number 1002 experienced a serious barrel failure during the December 1956 durability test (a bullet through the side of the barrel liner and right out the barrel assembly) and was changed to a steel barrel. Number 1004 was the other AR-10 of this series that was given to the

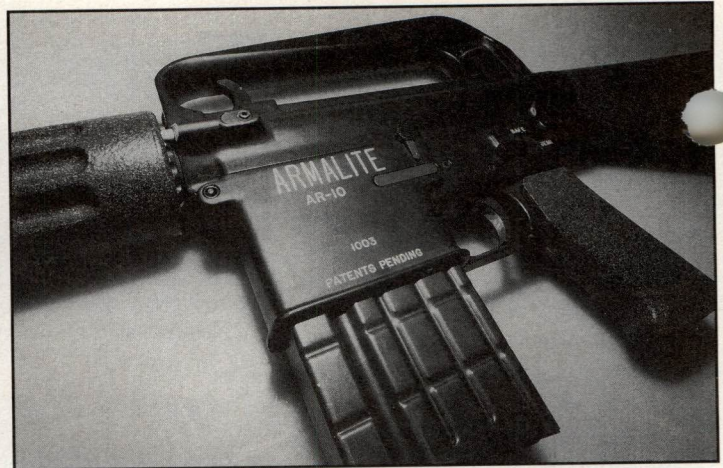


Compare the muzzle brake from AR-10 #3 to that of AR-10 #4.

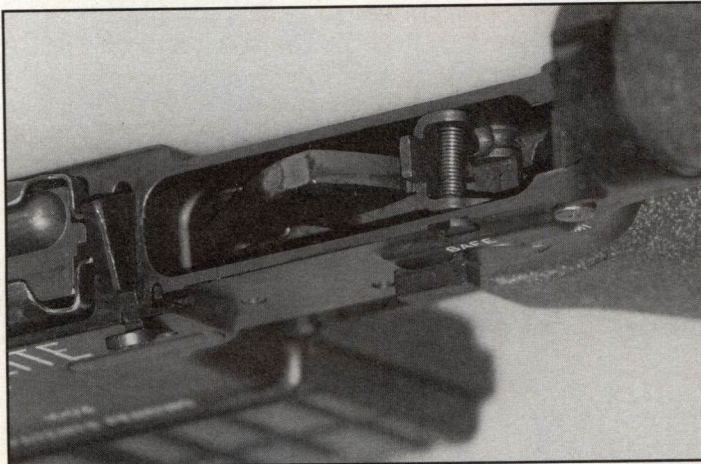




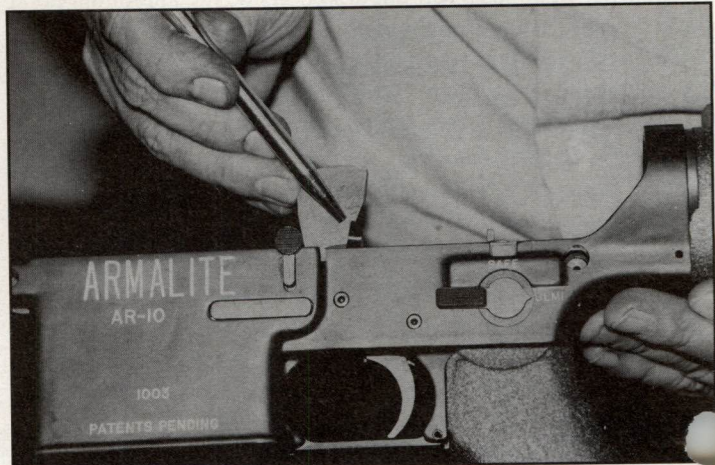
AR-10 #4 Pivoting on front pin.



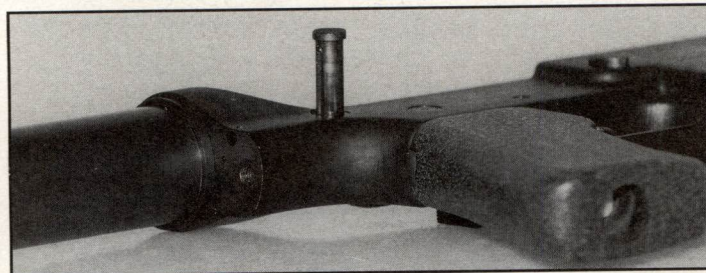
AR-10 #4 Note armalite marking serial #1003 waffle magazine.



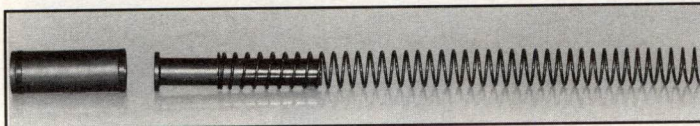
Inside lower receiver of AR-10 #4. Note sear bolt hold-open pressed against magazine follower.



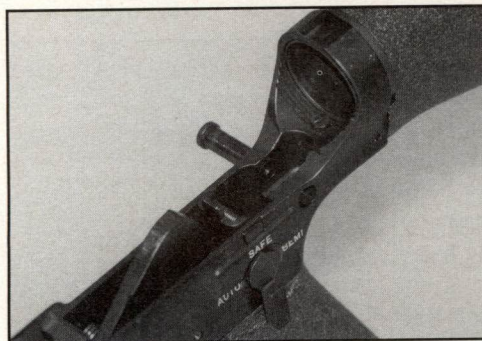
Hammer in fired position. Note the buffer on the rear of the hammer.



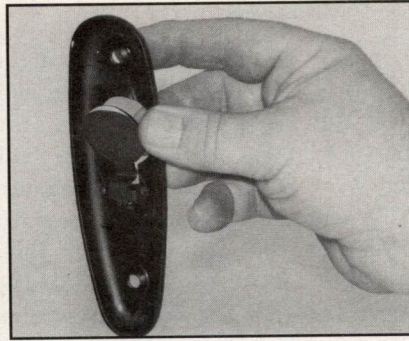
AR-10 #4 Note detent channel in receiver pin and hole in pistol grip for bolt to be held on.



AR-10 #4 Two-piece buffer assembly with recoil spring.



Lower receiver. Note buffer detent, safe in center position and rear receiver pin.



Buttstock plate, showing cleaning kit port.

military for testing at this time, and it was eventually changed to be a "heavy" barrel model, with a bipod. We had access to serial number 1003, which is the only one out of the run of five that is completely original. That is the representative of AR-10 #4 that is in the photographs accompanying this text.

The fourth model AR-10 had two basic problems in the military testing at Springfield Armory. As previously mentioned, number 1002 exploded the barrel, while one of the testers was firing it. The bullet exited the stainless steel liner to the left, at about mid point of the barrel, going through the finned aluminum outer section, through the gas tube and out the forend. Stoner replaced both of the test gun barrels with steel.

There are three immediate differences in the exterior appearance of the fourth model AR-10's. Probably the most prominent is that the upper receiver no longer slides off of rails to the front.

Stoner went to a hinged design, providing ready access to the interior working mechanism. Bolt carrier removal was quick and simple. Two take-down pins are used to accomplish this. The one at the rear is a captured pin, much in the manner of today's M16 pin except the spring and detent are held in position with a roll pin, not by the buttstock. The detent rides in a channel in the rear of the pin. The front pin is removable. It is held in position by a spring-tensioned detent ball that is part of the pin assembly.

The second feature that catches ones attention is that there is no longer a cocking handle



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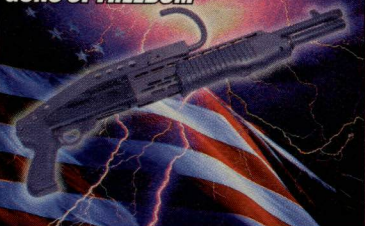
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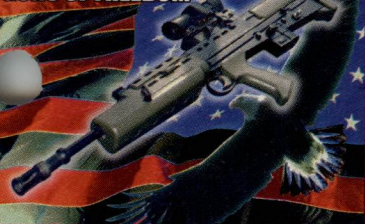
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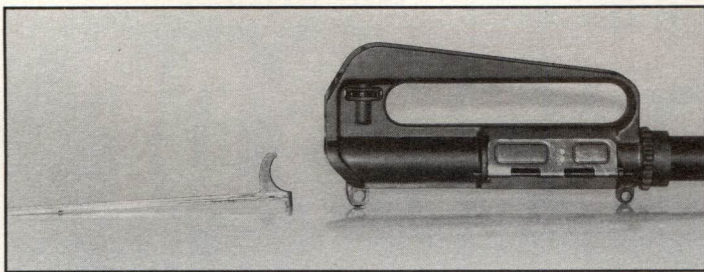
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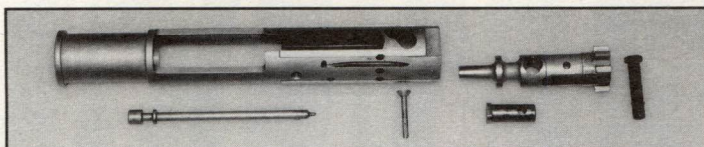
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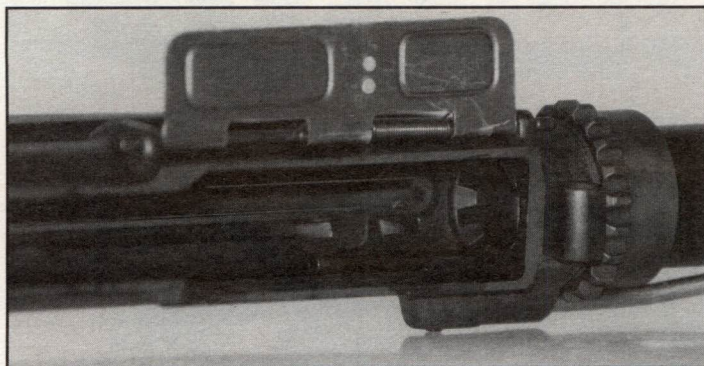




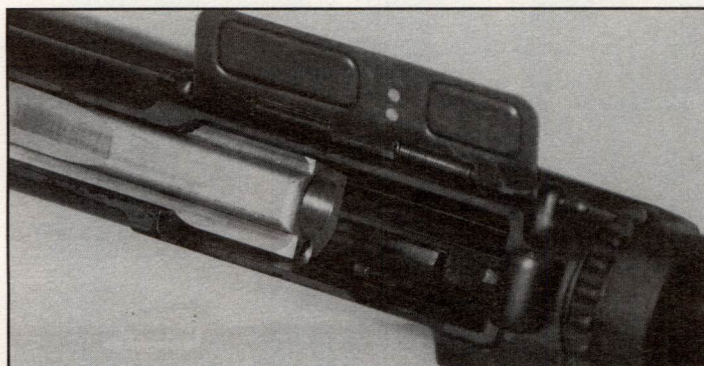
AR-10 #4 Appearance of flat dust cover, rear elevation barrel nut. Cocking handle is inside the carrying handle.



Bolt carrier assembly.



AR-10 #4 Upper receiver showing gas tube into gas block, cam channel and barrel nut.



AR-10 #4 Bolt carrier sliding in channel showing gas takeoff hole at front end of carrier.



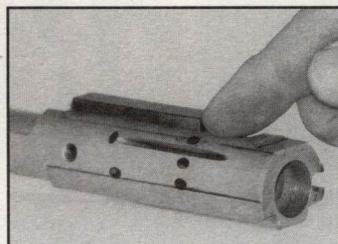
AR-10 #4 Note forward detent in cocking handle channel and gas tube on interior.



AR-10 #4 Gas tube.



AR-10 #4 Dust cover being opened. Note gas release holes in bolt carrier and cocking handle inside carrying handle.



AR-10 #4 Bolt carrier. Note key at top, and gas take off tube hole.

attached to the bolt carrier. Stoner made a nonreciprocating charging handle that is inside the carrying handle. It has a curved handle that resembles an upside-down trigger traveling inside the carrying handle space. The front of this charging handle protrudes down in

front of the bolt carrier, and when retracted, presses against the key on the bolt carrier, drawing it to the rear. Since the AR-10 is a closed-bolt firing weapon, Stoner was able to utilize the forward recoil of the bolt carrier to return the handle to the front position.

The revolutionary new muzzle brake that Stoner made for the AR-10 #3 is significantly changed, for the third exterior feature. Initially, as in the example here of serial number 1003, these were made of Duraluminum. The failure under Springfield Armory's test made Stoner switch to titanium for the body of these units. The front sight block/gas port take-off unit is now a separate piece, and it is constructed of titanium. The stainless steel gas tube takes off at the front sight; this is the first appearance of the front sight gas takeoff in Stoner's designs. The front sight is splined on the inside to match the ridging on the front of the barrel. Similar to the M16 system front sight base, the sling mount swings underneath. The front sight is a roll pin inside of a hood. The muzzle brake itself has two sections to it: it has a chamber towards the front which reverses the gas into the chamber and is then redirected out the porting. There is a square space on the bottom of the muzzle brake that was left blank and undrilled for mounting a bayonet lug.

*Some other features that are apparent from the exterior:*

1. The new dust cover over the ejection port is a flat sheet steel stamping, spring loaded, that locks into the closed position with a detent. As the bolt carrier travels to the rear, it presses the cover open and the spring snaps it down. Like the later M16 models, it is necessary to close the cover by hand if so desired.
2. Rear sight elevation is accomplished with a drum that is mounted in the rear of the upper receiver.
3. Magazine release and catch is the new "Push-through" style that contacts the magazine on the left hand side, as opposed to from the rear in Stoner's previous designs.
4. The barrel is not held into the upper by a clamp style as on AR-10 #3. Stoner has threaded the front of the upper receiver and installed the barrel assembly utilizing a threaded barrel nut.

*Internally on the AR-10 #4, there were many new features, as well as some evolutionary steps in Eugene Stoner's existing ideas:*

1. The buffer is no longer part of the bolt carrier, and is composed of two pieces. The recoil spring is somewhat smaller in diameter, to facilitate the larger outer buffer section.
2. The buffer is held into the buffer tube by a detent that is in a well in the receiver, much as in the modern M16. Unlike the M16, the detent is held against its spring by a roll pin—totally indepen-



dent of the buffer tube.

3. The buffer tube no longer has the perforations as in AR-10 #3 and these five models also have a spacer at the back. The buttstock attaches to the receiver similar to a standard shotgun stock, bolted through the rear. The pistol grip is solid fiberglass with the same type of aluminum bolt in it.

4. The rear sling mount is a fixed one attached by a screw.

5. There is a cleaning kit storage space in the buttstock.

6. The sear pin is a half-headed flat rivet that has a relieved area up above the notation for safe. Rotated one way the half circle goes under a notch and captures the pin, rotated the other way (once the receiver is open), and the pin can be removed from the sear.

7. In AR-10 #3, the bolt hold open has no bolt release; you have to manually pull the cocking handle back to release the bolt carrier. On AR-10 #4, it now has the lever on the left side that releases the bolt carrier to come forward.

8. The gas transfer block on the side of the receiver has a cleaning port, that actually opens into another gas tube on the inside of the upper receiver. This gas tube extension fits into a corresponding slot in the bolt carrier face. Gas is now directly released into the carrier to do the unlock. This increases the dwell time. Three angled gas relief ports (Approximately 45 degrees to the front) in the bolt carrier are now opposite where the gas comes in, and exhaust out the ejection port. There is no relieving around the ports at this point. The bolt carrier also trips the sear in the modern manner: in full auto at the rear position.

9. The firing pin does not have a return spring.

10. A plastic bumper is placed on the lower rear of the hammer. This is used as a "bumper." In several of the other #4 Model AR-10's that we looked at, this bumper had fractured from use.

11. The trigger is milled steel.

TO BE CONTINUED IN THE NEXT ISSUE OF MACHINE GUN NEWS.

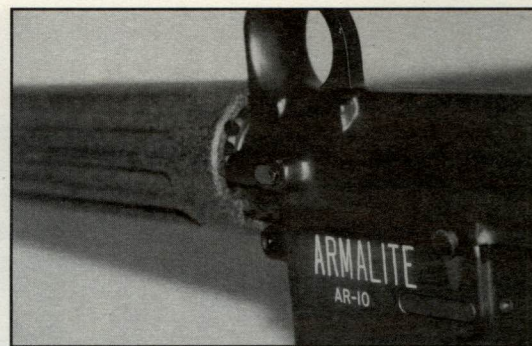
MGN Technical Editor Dan Shea continues "The Stoner Chronicles" next month by taking the reader further into the Armalite story, wherein Gene Stoner designs the first AR-15's, as well as the Stoner 62 (.308 cal. belt fed) and the Stoner M69W (invertible .308). If you have information to add to these chronicles, the whereabouts of prototypes by Stoner, or anecdotes regarding the Armalite days, contact Dan by fax at (501) 525-7519, by E-mail at [MGNews@aol.com](mailto:MGNews@aol.com), or leave messages at MGN (501) 525-7514. To reach Mr. Reed Knight with information on the Stoner series or the location of relevant firearms, call (407) 562-5697, or fax at (407) 569-2955.

Machine Gun News would like to thank Mr. Eugene Stoner for his help, Mr. Reed Knight for his working with us to develop this series, Mr. Doug Olson for his technical assistance, and Mr. Jim Bonis for his outstanding photography.

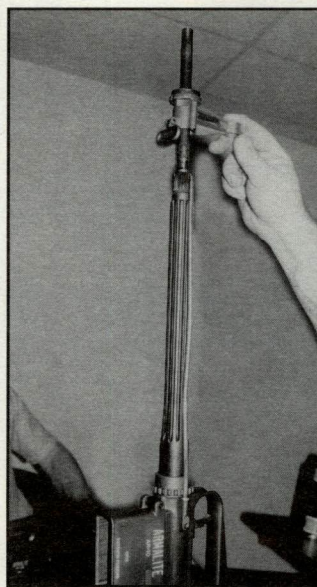
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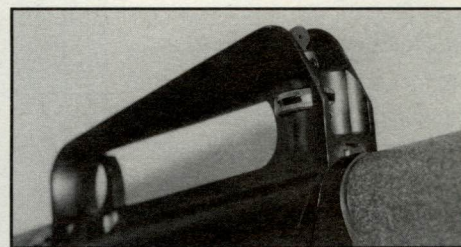
AR-10 #4 Left-hand side of receiver.



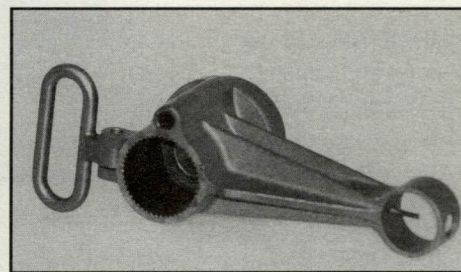
AR-10 #4 Gas takeoff block. Note magazine release and bolt catch.



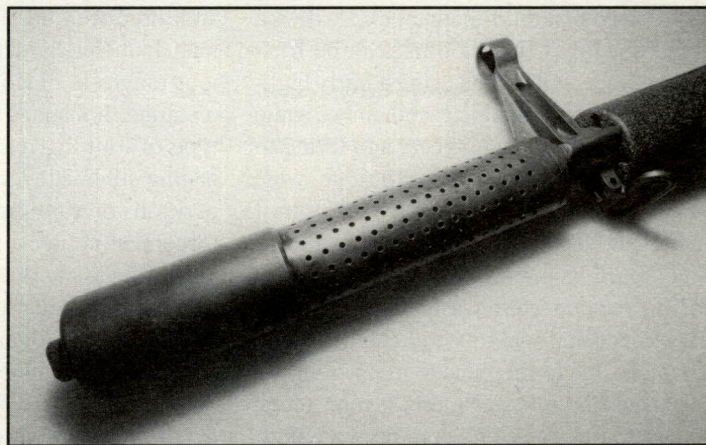
AR-10 #4 Removing front sight/gas block. Note the gas tube running along the left-hand side.



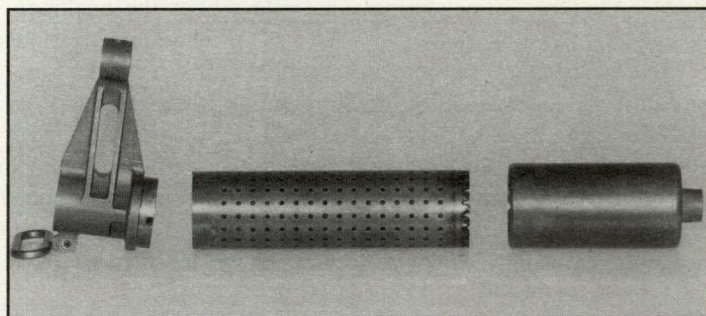
AR-10 #4 Rear sight well.



AR-10 #4 Front sight block. Note front sight is a roll pin, sling swivel attached at bottom, serrations that match barrel and gas tube hole.



AR-10 #4 Muzzle brake.



AR-10 #4 Muzzle brake assembly.



# Sound Technology's

## RUGER 10/22

### Compensator

**T**he Ruger 10/22—it's been the subject of endless modifications and kits since its inception. Some of the continuously advertised "add-on's" and various "dress-up" kits have worked quite well, and others have not. This article will evaluate Mark White's newly offered compensated 10/22 barrel system and its performance characteristics for the utilitarian shooter and hunter.

Webster's defines "*compensate*" as "*a counterbalance (a mechanical force), as by adjusting a mechanism to offset variations or produce equilibrium.*"

The part about producing equilibrium in the definition is what should appeal to the full-auto shooter trying to keep on target during full-auto bursts. For some, even trying to keep that mild-mannered .22 rifle on target for rapid fire shooting can be frustrating, especially when using a fairly high-powered scope. I distinctly remember while hunting squirrels many years ago trying to take one as it was running up a ridge, wide open, and almost horizontally in front of me about 30 yards away. My bullet did finally reach its mark, but the first five or so rapid fire shots were wasted due to my inexperience and inability to keep the scope on target due to the muzzle jump from firing. Due to the barrel jump, it took much longer to find the squirrel in my viewfinder. The problem is that for a right-handed shooter, the forces of nature move the rifle up and slightly to the right.

I've heard some say muzzle climb is not an issue for most full-auto shooters, but I disagree. Shooting at standard silhouette targets, at even close ranges, with full-auto firearms will enable one to visually see how much muzzle climb does affect accuracy. Law enforcement personnel en-



Negotiating through the woods with compensated 10/22.

gaged in advanced tactical firearms training should always incorporate this type of exercise to reinforce the effects of muzzle climb on accuracy. I routinely practice two- and three-shot bursts with the M16 on 12 inch diameter, hardened steel targets at various ranges to practice holding the muzzle on target. It's not as easy as it sounds. This type of training really pays off when engaging silhouette targets in a subgun competition, or running the tactical law enforcement courses. For a .22 rimfire, it is less of an issue, but add a high-powered scope to the equation and things change. In today's litigation-happy world, law enforcement personnel are usually held accountable for every projectile fired in a deadly force situation. Over my lifetime, I've had one or two rounds get away and over the backstop due to muzzle climb while firing various full-auto weapons. To me, it's a sinking feeling knowing that you've sent one out there somewhere with your name on it.

Mark White (Sound Technology) has recently introduced a specially-designed compensator system which helps alleviate a lot of these above mentioned problems.

The design of the compensator does not eliminate all recoil, but it does tend to hold the barrel in one place so the shooter may remain locked on target. While on the topic of the 10/22 and compensators, it is worth mentioning that the compensator can be incorporated into what one could call a durable and utilitarian "woods gun." I recently saw an advertisement for a short-barreled 10/22 called the "Squirrel Special" by one of the custom houses. It had a 16 1/4 inch custom heavy bull barrel. Rapid target acquisition and ease of movement in the brush I believe

were also mentioned in the advertisement. Although I'm sure this gun would be an excellent woods gun, the price was a little higher than I wanted to invest, especially since I already owned a standard "K-Mart" variety 10/22.

Mark offers the 10/22 with a 16 1/4 inch barreled system which includes a permanently attached compensator. He treats the barrels similarly to the barreled-muzzle can units that he manufactures: fire-lapping and polishing the bore and recrowning the muzzle prior to installing the compensator. The angle of diffusion is different for right- and left-handed shooters, so one must specify either right hand or left hand before ordering. The compensator is permanently fused to the barrel and cannot be removed. Clearances are tight, hence the need for permanent mounting. The entire barreled unit is easily removed, though, and may be freely interchanged with another barrel or a barreled muzzle can. Prices are reasonable and there is no dreaded \$200 tax or restrictions on the sale of barrels. New blued barrels are available directly from Ruger for about \$40, if one is inclined not to modify the stock barrel. Mark charges \$95 for this

by STEVE HOFFMAN



complete service and prefers that people interested send him only the barrel assembly, not the entire firearm.

As a baseline for performance evaluation, we took the standard 10/22 out for a general shooting and accuracy evaluation. Three participants all took turns shooting the gun at a gauntlet of metal targets, tin cans, eggs, golf balls, clay pigeons, and paper sight-in targets. Perceived recoil during rapid firing was also evaluated from a shooter's perspective during the gauntlet target gallery. Accuracy results with the standard gun were somewhat disappointing. The lack of accuracy was later determined to be caused by a crooked barrel, and the fact that the bore did not lie within the center of true axis. It has been stated many times before: accuracy of .22 rifles sometimes boils down to luck of the draw.

The gun was sent off, and Mark finished the modifications to the gun and had it back to me in a couple of weeks. To complete the system, Mark did a trigger job and installed a cleaning-rod hole in the rear of the receiver as covered in previous articles on improving 10/22 reliability (*MGN*, Nov. '93 and Jan. '95 issues). Additionally, a Butler Creek stock was added which greatly enhanced the looks and also the performance of this gun. The gun looked great and shouldered much better with the Butler Creek stock. So once again, we took the finished gun out for field evaluations. Various brands of .22's were tested from the slow-moving Russian JR Brass (which is subsonic) all the way up to the CCI Stinger Hyper Velocity rounds. Accuracy results were somewhat nonconclusive and probably would have been improved had the donor barrel's bore lay within the center of true axis. The Jr-Brass bullets appeared to have an advantage over the other brands in accuracy. We ran the gun through all the paces with our target gallery and did notice that the perceived muzzle jump and recoil was diminished significantly. To ensure that our evaluation was unbiased, we brought an identical 10/22 standard model along with us to compare the modified version. Again, all agreed the perceived muzzle jump was significantly reduced, and the gun was much easier to keep on target while shooting off-hand. The trigger was also greatly im-



Close-up view of the Sound Technology muzzle brake.

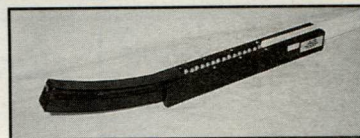
proved, which obviously improved our accuracy potential.

To summarize, this is now one great little gun. Mark's modification to the trigger mechanism, the installation of his compensator system, and the improved stock all attributed to enhance this little gun's potential. After our shooting sessions, all three participants no longer wanted anything to do with the stock 10/22. All agreed that Ruger & Co. makes a good .22 rifle for around \$150, but for just a little extra investment, one can have an excellent performer that can meet or exceed most utilitarian shooters' expectations. I think the gun looks great also, and its "woods carry" savvy has been improved due to the shorter barrel. This enhanced carbine is now more easily carried while negotiating the thick Georgia woods and will make a great small game hunting rifle. For the full-auto shooter, the compensator will significantly increase hit probability while shooting bursts. Law enforcement personnel will find this compensator addition of benefit in full-auto tactical training scenarios, particularly if the participants have limited or no full-auto shooting experience. If you're looking for that extra performance out of your 10/22 at a user friendly price, Mark's compensator system might be just the ticket.

MGN

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# FNA MODEL X4



by DAN SHEA  
photos by JIM BONIS

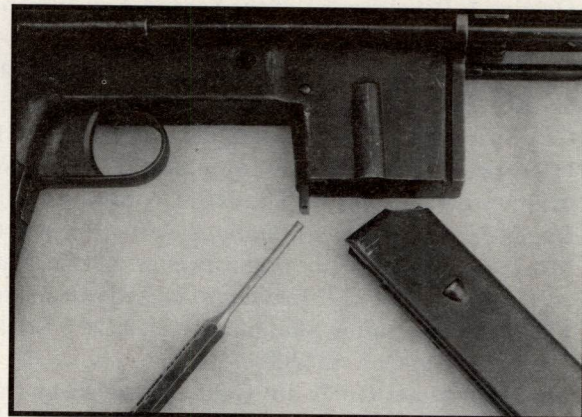
## Specifications

<b>Caliber:</b>	9 x 19mm (Parabellum)
<b>Operation:</b>	Open bolt blowback
<b>Magazine:</b>	Beretta 20- to 40-round dual stack
<b>Rifling:</b>	Right-hand twist
<b>Sights:</b>	Replaceable rear peep sight, front blade
<b>Weight:</b>	Loaded w/30-rd mag 8.25 lbs
<b>Length:</b>	Stock extended; 26 inches Stock collapsed; 16 inches
<b>Cyclic Rate:</b>	626-650 rpm

When someone casually mentions Italian submachine guns in a conversation, most of us in the Class 3 world assume that one of the Beretta models is under discussion. This may usually be true, but there have been some other manufacturers who did interesting work. The Villar Perosa, often acclaimed as the first actual submachine gun, was not a Beretta piece. Beretta did some work in the later parts of the project (converting Villar Perosa parts into the Modello 1918). Another variant of the Villar Perosa is the OVP (Officine Villar Perosa). The OVP was a non-Beretta product of the 1920's Italian arms manufacturing period. There was an interesting cocking handle on the OVP that is relevant to the subject at hand (the cocking handle is a cylindrical slide that wraps around the receiver and is pulled to the rear to retract the bolt).

ty submachine gun called the "FNAB Modello 1943" during World War II. Overshadowed by the Beretta series, the FNAB was nonetheless a fine firearm with a lot of attention having been paid to manufacturing details. The receiver was made from solid steel stock—an expensive procedure, but one that paid off in quality. In appearance, the FNAB resembled an MP40 because of the under-folding stock, but the resemblance ended there. The FNAB is a closed-bolt firearm, and it is not split into the two basic "upper/lower" groups of an MP40.

Fabbrica Nazionale d'Arme (FNA), a weapons manufacturing facility located in Brescia, Italy, manufactured a high-quality



Flapper mag release pushes to the front. Photo: Dan Shea



Bolt retracted showing ejector positioned over magazine.



FNA-B's were manufactured in a small quantity, less than 7,000 having been made according to all sources that I have checked. The Italian Army was the sole official user, with the German Army having used some in a "field expediency" manner.

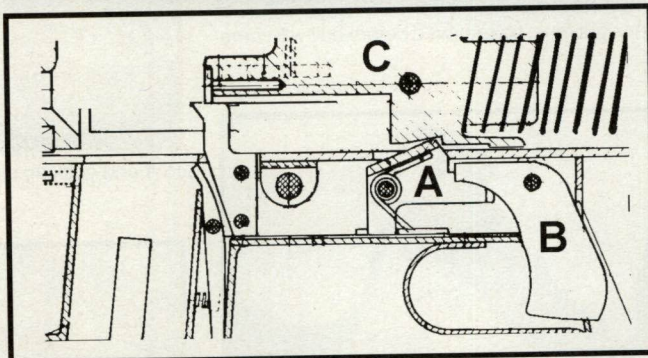
The short-lived Modello 1943 was not the only offering of FNA. In the post WWII years, there were many manufacturers around the world who attempted to correct the perceived problems of the submachine gun, using the wealth of field experience so recently provided on the battlefields. Many interesting and innovative designs were prototyped, tested, and fielded out to the world arms community. Unfortunately, many of those designs ran smack into the stone wall of procurement. Smaller countries, who may have wanted to purchase new submachine guns, swallowed up the massive surplus pile of WWII Stens, MP40's, Thompson's, etc., at pennies on the dollar, instead of purchasing new designs at full price. The perceived savings to the country was justified by observing that the weapons had performed in an exemplary manner in the recent war, and the new models really did not offer much in the way of advancement. While there was a very real arms race going on in the design, manufacture, and procurement of newer rifles and machine guns, the submachine gun manufacturers were in a slump for almost twenty years.

In the halfway point of that purchasing slump, FNA came out with the "FNA Model X4." This design was a fully-automatic, open-bolt, blowback-operated submachine gun in 9mm Parabellum. FNA drifted away from their all-maintained design of the Modello 1943, but the workmanship and attention to detail shows on this fine submachine gun.

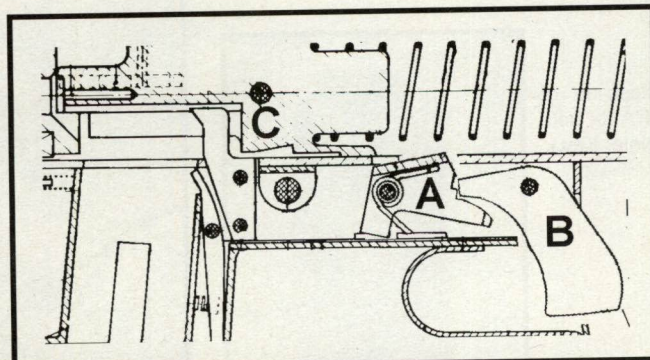
The FNA X4 in these photos came from North Africa as part of one small country's test purchase. It is a prime example of the type, only missing the takedown pin. Since that X4 and the shorter version called the "X5" used Beretta 38 series magazines, magazines were readily available for it.

I had been able to test fire this submachine gun on several occasions, so I was somewhat familiar with it before the disassembly. Using the PACT Timer (P.A.C.T. Dept. MGN, PO Box 531525, Grand Prairie, TX 75053) and several types of ammunition (Winchester's USA white box 115 gr, D&S mfg 147 gr), the rate of fire of the FNA X4 was recorded consistently between 626 and 652 rounds per minute. The design is very smooth in operation, having very little muzzle rise and a nice even recoil. The wire stock retracts to the rear, and in the closed position, the stock fits neatly into the grooves on the rear of the pistol grip. Most designs like this are very uncomfortable to the operator's hand, but the FNA X4 stock is not obtrusive, and you really don't notice it.

## FNA X4 Action



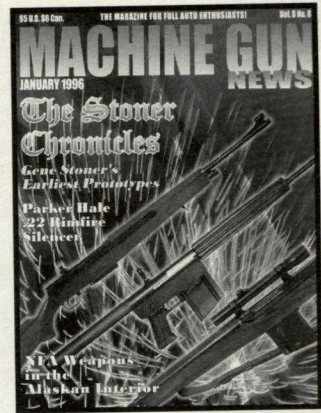
A - Sear engaged. B - Trigger in ready position. C - Bolt cocked to rear.



A - Sear depressed. B - Trigger to rear. C - Bolt forward.

These are sections of a diagram taken from *The World's Submachine Guns* by Thomas Nelson, page 374. They have been altered to show the action sequence.

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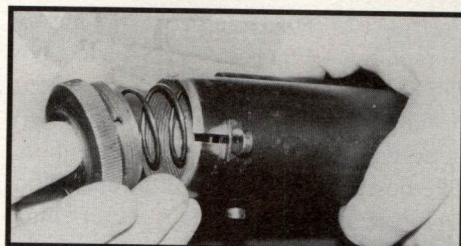
## OPERATION OF THE FIREARM

The Beretta manufactured magazine is loaded with 20, 30 or 40 rounds of 9mm Parabellum. Magazine is inserted into the magazine well until it reaches the stop, and the magazine release snaps into the channel in the upper rear of the magazine. Operator's free hand is used to retract the cylindrical bolt slide, pulling the bolt to the rear until the sear spring pushes the sear into the sear notch on the lower side of the bolt. The safety is pushed to the forward position (fire). Firearm is aimed at the target, and the trigger is pulled to the rear. The action of pulling the trigger to the rear rotates the trigger on its axle, pressing down on the rear section of the sear. This lowers the sear, allowing the bolt and its retracting slide to go forward. On the forward path, the lower bolt face strips one round of ammunition from the magazine up the feed ramp that is part of the barrel extension. As the bullet seats into the chamber, the rear of the cartridge comes into full contact with the bolt face. The fixed (replaceable) firing pin indents the primer, causing the primer to ignite the propellant. The bullet begins to travel down the barrel, and the bolt begins its recoil cycle. The extractor grips the rim of the cartridge and holds the cartridge case in position as the bolt recoils. The bullet leaves the barrel, spin imparted by the right-hand twist rifling. The lower edge of the cartridge case strikes against the ejector face and is thrown clear of the bolt face, in an upward, to the right, direction. The bolt continues in recoil until once again captured by the sear (trigger released) or continues in cycle once again (trigger depressed).

The FNA X4 is a fairly complex design for a blowback-operated, open-bolt sub-machine gun. Even though the designers made many of the parts from sheet metal, there was still a substantial amount of machine work in the manufacturing process. The barrel requires two threading operations, having not only a barrel nut to attach it to the receiver but a threaded end for the barrel shroud attaching nut. Each of the nuts is serrated and uses a detent. The chamber of the barrel is fluted—a fairly innovative operation for 1954-55. Whether the fluting was for a microsecond delay in the blowback, or as an aid to case extraction by allowing some of the gases to move out around the case would be a matter of speculation on my part; I was unable to unearth any information regarding the manufactur-



Form-fitted wire buttstock is removed toward the rear.



Butt cap unthreaded, then recoil spring removed.

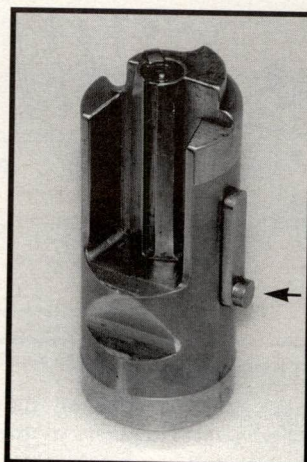


Rear sight must be removed before bolt will come out.



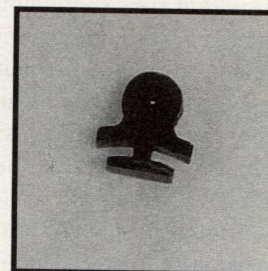
Removing barrel shroud end nut.

Close-up of FNA X4 bolt. (Note: Key.)



Spring steel retaining clip being removed.

FNA X4 rear sight. Photo: Dan Shea



Bolt and cocking slide removed to the rear.



Bolt is removed from cocking slide. Note the protruding key that sits into the cocking slide.



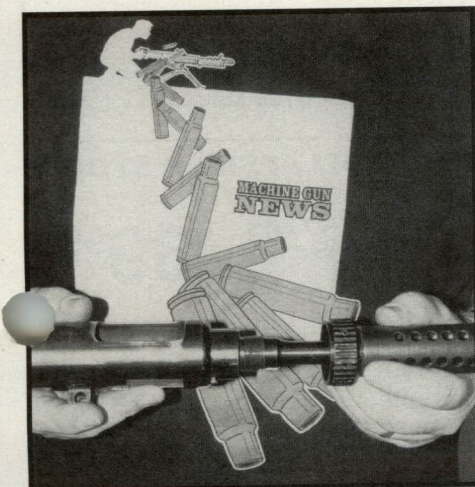
er's plans. In either event, I doubt that it really had much of an effect on this 9mm submachine gun's performance.

The cylindrical slide, seemingly borrowed from the earlier Italian design of the OVP, makes the action of "cocking" the FNA X4 available from almost any direction—an almost ambidextrous design. The cocking slide also performs the duty of a dust cover, since in the closed position it covers the ejection port. One disadvantage to this design is that, since the slide travels with the bolt, the entire upper section of the receiver is a "hazardous location." The operator must be careful to keep his distance from that section of the firearm.

In test firing a submachine gun, I like to view it from several different angles. The most obvious is the point of view of the soldier in the field. From that vantage, the FNA X4 would be a successful design. It was simple to operate, simple to disassemble, accurate to fire, and easy to control. The availability of the relatively short Beretta 40-round magazine would have been a distinct "plus" for this firearm. The weight was a little heavy at eight pounds loaded, but that is well within the range of comfort for a soldier to carry, especially considering how accurate and controllable



Above and below: Barrel shroud being removed.



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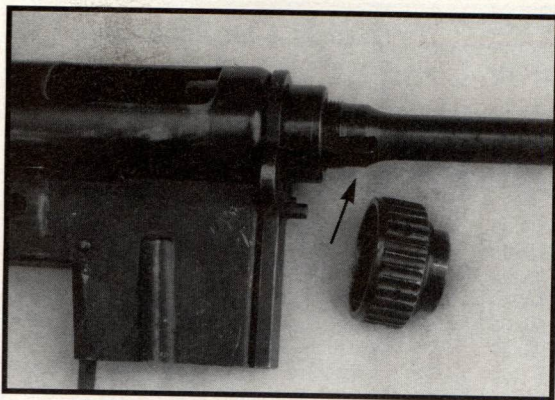
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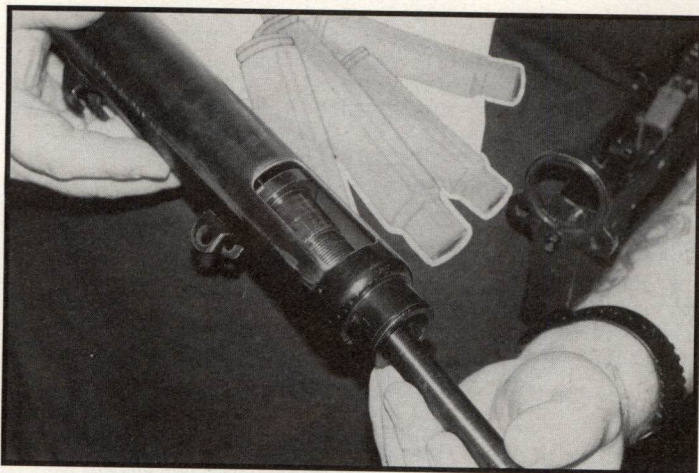


Barrel nut and detent. Photo: Dan Shea.

the firearm was. Soldiers tend to put up with a little more weight from a firearm that they can count on. The flapper magazine release is located in such a manner that it is readily accessible, and it releases the magazine to the forward position, which keeps the operator from having to go "against" his natural movement to pull a release

"back" as in some contemporary designs to the X4.

Previously mentioned in this article is the comfortable ergonomics of the buttstock when it is in the collapsed position. Unfortunately, like most wire buttstocks, it is uncomfortable to fire from the shoulder. Comfort is traded away for convenience. The stock is long enough to bring it comfortably to "shoulder"; however, so



Lower receiver has been removed. The barrel is removed to rear.



FNA X4 disassembled. Left to right: recoil spring, barrel shroud retaining nut, barrel shroud, barrel, bolt, receiver tube, magazine, cocking slide, sight retaining spring, receiver end cap, mag release, mag release assembly, lower receiver, buttstock.

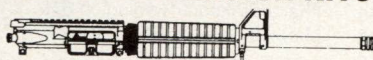
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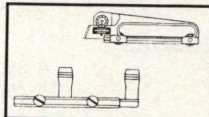
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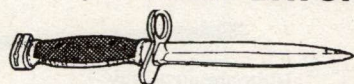


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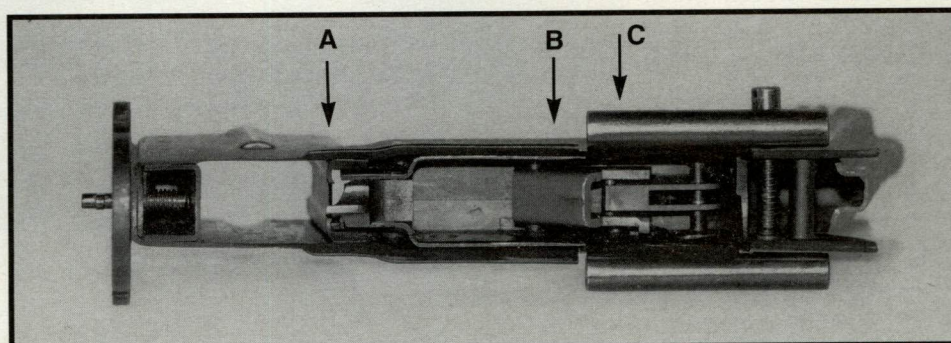


the X4 does not suffer from that "scrunching up" that many of the wire stock submachine guns force on the operator. The extra length of the stock is made more rigid by the length of the tubes that it rides in on the side of the lower receiver, and in the collapsed position, there are two more rigid supports on each side, making the whole length much more rigid.

The armorer's point of view might be somewhat different on the X4. Not factoring in the fact that parts are extremely scarce for this submachine gun, the unit maintenance would probably be fairly high. Because of the proliferation of parts, it is probable that the lightly-trained operators would lose parts, ruin many barrel threads, bend wire stocks, break off stock support tabs, and lose rear sights. I believe that the armorer would have to maintain a pretty rigorous training program for maintenance and cleaning and keep lots of the smaller parts in stock. The springs seemed to be well made, so breakage and losing strength probably would not be a major problem with this submachine gun.



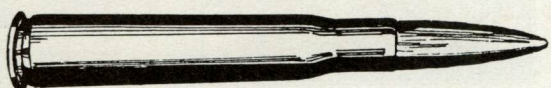
FNA X4 lower trigger housing, left side.



MGN

FNA X4 internals. A - Ejector. B - Sear. C - Trigger.

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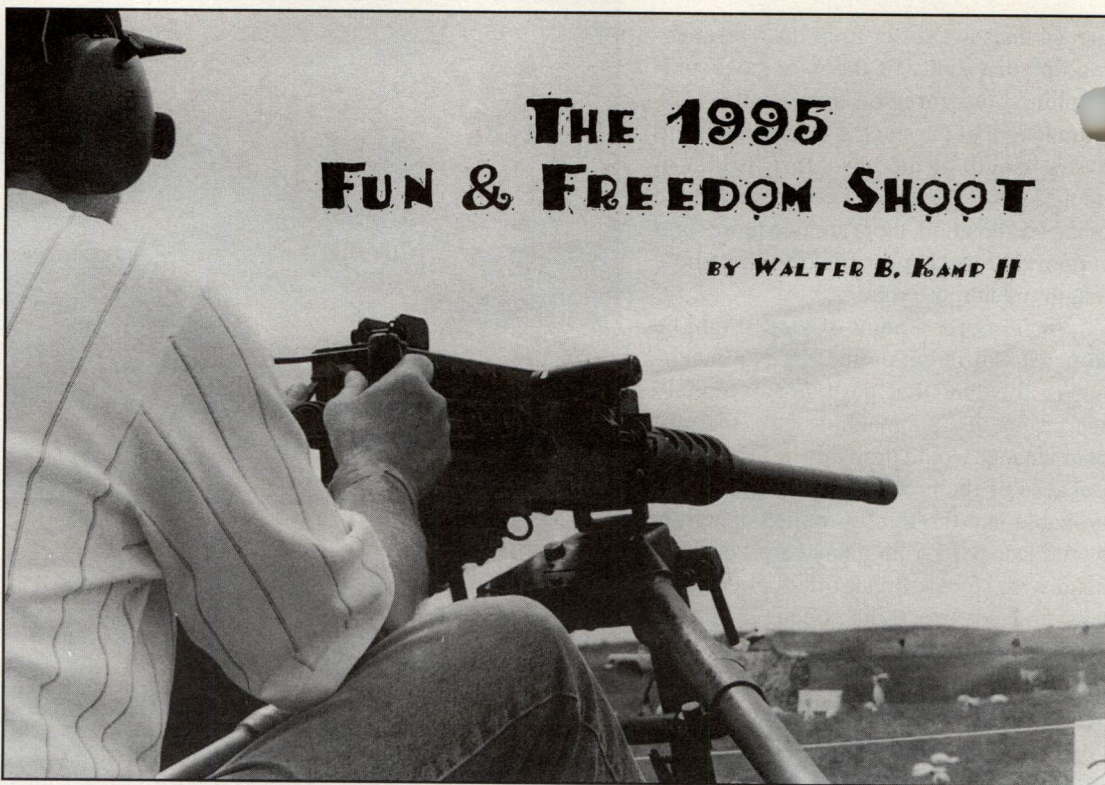


Lady luck smiles when you're getting ready for a machine gun shoot. She knows all the intriguing little problems that are going to crop up at the most inopportune times. Patience, therefore, is a virtue most necessary for machine gun aficionados. You wait to save your money, and you wait to get your paperwork approved through the bureaucratic maze. Now you've got your new "toy" and you've brought it to Nebraska for the 1995 Fun & Freedom Shoot at Roger Well's range south of Kearney, Nebraska in time for the Friday, August 11, 1995, BBQ and informal shoot when... What? The range is closed because a bull is cavorting downrange?! Welcome to Nebraska, land of the Cornhuskers, and home of the "good life."

After the daylong effort cowboys Willy Najera and Dean Marsh put in Wednesday, August 9th setting up extra fence, Todd Wendell's big, (really BIG) Salers bull decided he liked the rifle range land better than the pasture he'd been roaming in. He showed up at sunrise, Friday morning, and proceeded to visit the tents and camper trailers of the early arrivals. Fun shooter Roger Nelson later claimed that he'd even petted him, that he seemed like a big friendly calf. After this "big friendly calf" charged Willy and Dean when they tried to lead him away. We figured it best to leave him alone until we could launch a big bull snatch n' grab.

With the range closed, the dozens of early arrivals for the Fun & Freedom Shoot wanted to go shopping at the world famous Cabela's store in Kearney, leaving Kelly Winz and me to finish setting up targets and getting the range ready for the shoot. The cowboys would return later with a live-stock trailer and a couple of horses.

Setting up went according to plan; it just took longer than we'd figured. At one point Kelly and I lost sight of the bull while we were downrange, which was a little nerve-racking recon in the tall prairie grasses. By 4:30 p.m. the cowboys arrived. With the horses behind him, the bull walked meekly into the trailer and was triumphantly returned home.



Will Curry warms up Ma Duece.

## THE 1995 FUN & FREEDOM SHOOT

BY WALTER B. KAMP II

The BBQ started at 6:00 p.m. after a short delay, which turned out to be an organized conspiracy lead by my wife, Christine, who turned the BBQ into a surprise early 40th birthday party for the shoot organizer. So what if it was six days early—close only counts in handgrenades and horseshoes.

Jerry Reichert, a local farmer/rancher, who played college football with me 22 years ago, slow-cooked the pork and beef to crowd-pleasing perfection. The ladies had outdone themselves making homemade salads. Rosa Maruska, Tina Pelland and Chris Kamp deserve honorable mention.

After the festivities and the good eats, it was time for our Friday night informal shooting session. The friendly folks soon had their guns warmed up and working fine. We had over 50 shooters present Friday night, with 39 camping out on the range. Brian Linde, a Class 3 dealer from Minnesota, put up an outstanding display, as did Joe Brunch, a Nebraska Class 3 dealer. The award for "Who Came the Farthest" has to go to Carl and Lisa Duhon from Lafayette, Louisiana. Carl is an attorney who just naturally has an interest in shooting exotic firearms. He came to learn and ask questions from the shooters and deal-



R.S.O. Jim Haller "Oomph!" on Rich Gertz's Barrett M82A1.

ers. That's what it's all about, isn't it? Lisa mentioned it was also a weekend away from their five kids, but that allegation has yet to be proven, eh?

At 8:15 p.m. Larry Ball came up and introduced Peter Koeppen, from York Associates, Washington, D.C., affiliated with York Productions in London, England. Peter was there with a film crew for the Discovery Channel, cable TV. They would be filming all the events at Saturday's shoot. The Discovery Channel is working on a 3-hour, three-part show about firearms in America. It is tentatively set to air sometime between April-August 1996. We hope they give us as fair a representation as we attempted to give them.

Saturday morning, about 10 minutes before opening ceremonies, chief range safety officer Dennis Dop (1st Sgt. USA,



Retired) started hollering at me (something he's good at, probably because he gets a lot of practice). It seems that a local crop duster had showed up and was working the pasture to the northwest of the range. His turns caused him to over-fly the range about 1000 yards out in the downrange impact area! Time to grab the cellular and start frantically calling all the local aerial spraying services. It's always the last one you call, don't you know?

Dennis went ahead and started the opening ceremonies while I had a most interesting conversation with a spray plane service. Although I missed it, local farmer and operatic baritone Marshall Christensen really wowed 'em with the National Anthem. Even the Discovery crew was impressed.

Finally, we got to shoot! For this year, we widened the firing line from 270 feet to 288 feet, and that gave us 36 firing positions, each 8-foot wide. All 36 were taken by 1 p.m. People would shoot, then leave the line and someone else would occupy the position. Many shooters would split the cost and share a shooting position. A total of 86 one-day shooters attended Saturday, with 39 shooters also present who came for both Saturday and Sunday.

A new activity for this year's shoot was "Operational Weekend Warrior." As spectators signed in, they were given a numbered ticket. Drawings were held at 3 p.m. and 5 p.m. each day to select a "recruit." Since many spectators are reluctant to spend any money—they prefer to just watch, I suppose—my wife, Chris, and I figured this would help them get a little more into it. The recruit would win a certificate good for \$25 worth of shooting. The shooter renting out his guns just had to present us the certificate for prompt payment. This year's recruits were Rev. Wilbur Schoneweis, Ken Burwell, Henry Angle, and Jim Cosler. One of the dealers told me he'd let his recruit shoot just a tad more than the \$25, because he was obviously having such a good time. Yeah, I think we're all guilty of doing that one a time or two, aren't we?

Another event was "Operation Safe-cracker." Police Chief George Svoboda from Shelton, Nebraska and Shelton banker Brad Gangwish brought some dynamite to put on a grand demonstration. An old steel safe from a grain elevator was blown sky high, scattering old file cards and account ledger pages all around. Another blast minutes later was the result of a spread of eight

sticks of dynamite with 10-pound bags of pellite (ANFO) on top. It was set off all at once, which was very impressive and a crowd pleaser. The difficulties behind the scenes this year, just in getting an explosives person and the explosives, are themselves quite a story—a story fraught with peril and excitement unparalleled in the annals of Fun & Freedom Shoot history. Suffice it to say that next year, George and Brad claim they will definitely return, and they plan to have dynamite for targets and demonstration.

Rich Gertz was back this year with his awesome Barrett 82A1 .50 caliber BMG rifle. Lots of people congregated over by his shade awning to stand in line to shoot it.

Will Curry of Columbus, NE was giving his M2 .50 BMG Ma Duece a workout. He'd cleaned it and timed it, but it didn't want to cycle reliably until it had been shot a few times. Apparently, his M2 50 likes to run while dirty. Ah, the beauty of John Browning's design genius!

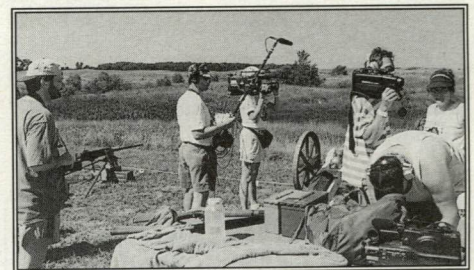
Bill Dutton from Lincoln, NE was a newcomer this year, also shooting a Ma Duece. I never heard Bill utter one complaint; his gun was working fine. But the civil war blackpowder cannon crew who had a position immediately south of Bill's 50 did manage to mention to me that, please, next year, they'd prefer not to be so close to another heavy weapon. Seems the 50's stout muzzle blast makes the cannon crewmen jumpy, especially so when they are working the ramrod at the same moment.

Warren Wahrmond came up from Frederickburg, Texas with a good friend who was driving a GMC Suburban with the famous "Failure Analysis Associates" logo lettering all over it. They had some very nice and well-kept firearms, including a gorgeous 1918A2 BAR.

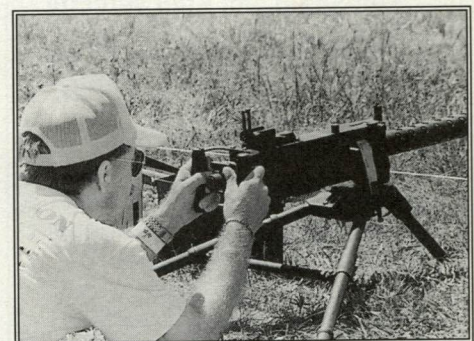
The weather cooperated this year, in that at least it didn't rain. This was August however, and it can be hot in Nebraska in August. The heat and humidity help the corn, but it sure saps the vitality out of fun shooters. Iced tea, ice cream, and good shade help restore life to the folks who enjoy the chattering guns. Plenty was available this year, thanks to the food bus lady and a couple of large 20x20 tents we rented from Cabela's.

The Discovery Channel crew was filming all over the range, being as unobtrusive and polite as they could be. Their pro-

gram about firearms is going to look at many aspects of the use today of America's firearms, including the history, the heritage, and the culture. They will be going hunting, target shooting, and attending events all around America related to shooting for several months. According to their camera lady Melanie, we sure renewed her mind. Her mental image stereo-type of what she'd thought we'd be was all wrong. "Why, everyone here is having such a good time; it's a family fun event. You are conducting it with safety in mind and people are behaving themselves. Not at all what I'd thought I'd find." Hmmm. A good point that I hope they don't miss when they edit the tape. Law-abiding and responsible-minded Americans with firearms are not a problem—they are a good motivating factor for creating a solution. Of course, that 100-round belt Melanie fired through Brian Linde's M60 didn't hurt her disposition either.



The Discovery Channel TV crew. Peter Koepen on left.



Brad Gangwish working his 1919A4.

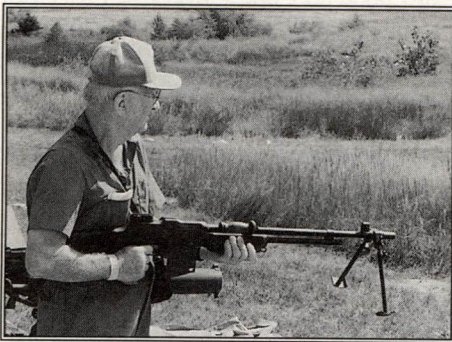


The firing line, Saturday noon. Joe Bruch, Class 3 dealer twin '60s in foreground.





"Operation Safecracker."



Bob Spencer demonstrates how to fire a BAR 1918A2.

Saturday evening we ceased fire for a couple of hours so everyone could cool off, eat dinner, and relax before the two scheduled speakers and the night fire. Steve Wagner, an electrician and police officer from Carter Lake, Iowa, spoke forty minutes on amateur radio communications. Very informative, with lots of detailed knowledge about the subject. The last ten

minutes turned into a Q&A about cellular phones. Amazing what you find out you didn't know.

Next up was Charles Emig, of Bellevue, Nebraska. Discovery wired him for sound. Chuck is the owner of Old Fontenelle Gun Shop in Bellevue. He has for years given lectures on America's firearms heritage and history to Omaha area junior high and high schools. The startling development Chuck spoke about was the emergence in American education of the

zero tolerance policy in regards to firearms: no firearms allowed in schools, which means no rifle teams; no "hands-on" firearms safety classes; no more seminars, say, the Revolutionary War with actual firearms from that era present. We as shooters and hunters need to be active in our school boards and local zoning commissions and city planning commissions, if we want to try to ensure the survivability of firearms as a part of life for our posterity. America's rich heritage of firearms lore, of firearms as a way of life, is inexorably under attack by those who would do away with firearms altogether.

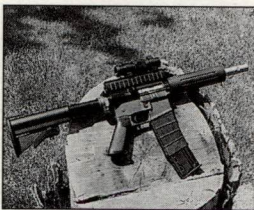
Chuck said that he has already seen fathers come into his store with children; the father is looking for a shotgun when the young child comes up, points to the firearms and says, "That's a bad gun, daddy." They are already indoctrinating our children with the idea that all firearms are bad: no sense of responsibility, no right way to safely enjoy shooting—they are just all "bad." When these kids grow up, and they don't buy guns, and they don't go hunting, and they don't want you to own guns or enjoy them, then our heritage will be lost, and so will

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our way of life, and so will our "freedom."

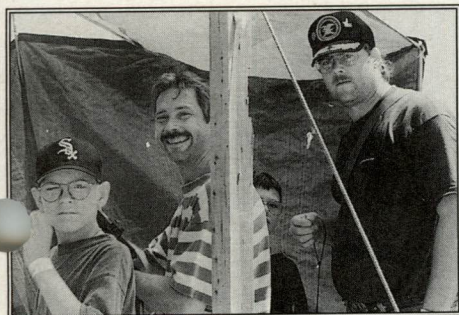
After these sobering thoughts by Chuck, we began our night fire at 8:50 p.m. Discovery was rolling at 9 p.m. when we opened fire and proceeded to set off nine grass fires in the next hour. 10 p.m. brought a cease fire, a full moon rising, and blissful peace and quiet.

Sunday morning we planned a three phase competitive event, to occur between 8 a.m. and 12 p.m., with the main shoot to start at 1 p.m. Set up and run by Steve Wagner, Tom Engel, and Greg Kucera was a combat pistol, combat shotgun, and assault rifle/submachine gun series of events.

The combat pistol course was set up like the Iowa law enforcement academy. Twelve rounds, six round per magazine with pepper popper silhouettes, falling steel plates, and terrorist/hostage targets in a fire and maneuver course. The event was a winner take all—no second place in a gunfight. The winner was John Erickson, and runner-up was Dave Hineline. The most fun was in watching the contestants run, crawl, and shoot. Wouldn't you know that Rich Gertz would try it with a Desert Eagle in .50 AE? Rich just loves shooting in half-inch size bullets.

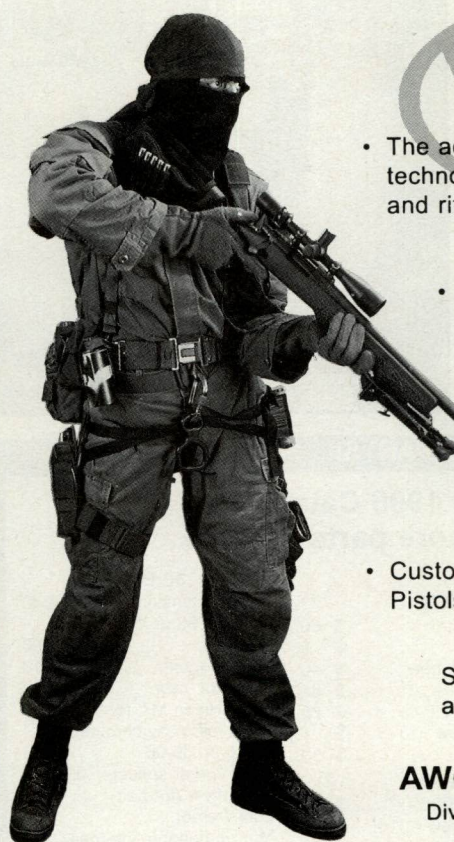
The assault rifle/submachine gun event was a "shoot-off" competition. Using bullets fired by two-man teams, how fast can you cut a 2x4 post in half at a distance of 30 feet? Rocky Stone of McCook, Nebraska used an AM-180 and 160 rounds of .22 LR, teamed up with George Dack from Montana shooting a Thompson to win the event in six seconds. No fair, you say? Well, no belt-fed or tripod-mounted stuff was allowed; only hand-held weaponry could be used.

The combat shotgun was a very enjoyable 10-shot fire and maneuver course, using combinations of pepper poppers and trap-thrown clay pigeons. Starting from the far right, the contestant had to load at the



Smiling Rocky Stone (and sons) is the 1st place winner in the Assault Rifle/Submachine gun shoot off. Standing by is friend Doug Colby.

Machine Gun News - February 1996



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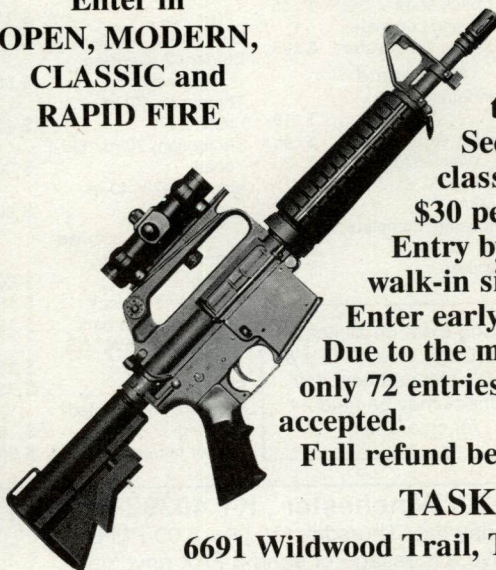
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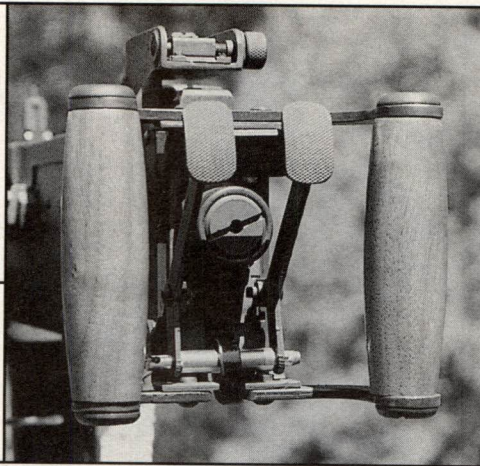
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in 7 ..... \$175.  
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chromed, new G.I. .... \$150.  
Barrel, upper assy. A2  
barrel on complete  
G.I. A-2 upper with  
handguards, flash  
hider, gas tube ..... \$360.  
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match 1 in 9 ..... \$150.  
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Hammer ..... \$85.  
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Trigger ..... \$50.

#### M60

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S.A. .... \$75.  
Trigger, winter ..... \$7.

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alum. .... \$40.  
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G.I., new ..... \$8.  
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signal and immediately engage his first target. The poppers had to fall over, and you had to be within the painted shooters' circle before you could engage your target. Maybe its because this is Nebraska and most all Nebraska shooters are familiar with a shotgun, but this was the most fun event, I thought, of the morning. John Erickson again took away 1st place honors with a subtwenty second time. Skip Wray moved into second place after some of the contestants decided to try their run through again. Second place would have been Rocky Stone, but I confess, I secretly put a couple of J-G Dapkus's Exploding Bulls-I Targets behind his two swinging clay pigeons. When the first one blew up, it must have flustered Rocky some because he missed his next one... then had to reload, causing his time to stretch longer. I'm sorry Rocky... (heh heh heh!).

It was a little cooler Sunday afternoon compared to Saturday. Some of the shooters left early, leaving room for more—and more shooters filled in. The pace slowed down late Sunday afternoon as almost everyone was running low on ammunition. People came up to me already making plans for next year, such as competition even in the mornings of both days, before the main shoot starts. Next year's shoot will be the second weekend of August, the 9, 10, and 11 in 1996. I've been told we have to increase the fees—aw, do we have too? Not much, I hope: \$5 spectators; shooters \$10 one day, \$15 two days; tables \$15. I recommend prepaid registration for shooters, or you may not get a position.

My thanks go out to all those who helped with this year's shoot: Dennis Dop, as chief RSO; Jim Haller, RSO; security chief Terry Bennett, and his crew of Drew Runnell, Troy Finstead, Mitch Deisley, and Randy Ward. Terry even got two active duty U.S. Marines he knows to help him out, Sgt's Andre Powers and Joe Solis. They were hard core, sleeping in the bed of their pickup truck, sans mattress. I know Marines are tough, but that's a hard way to rough it during a fun weekend. Our fire crew was Chris Stacy and Scott Wright. The four vehicle targets and the safe were provided by Triangle Metals of Kearney and were brought out by Steve Erpelding

Thanks to all!

MC

**Walter B. Kamp II**

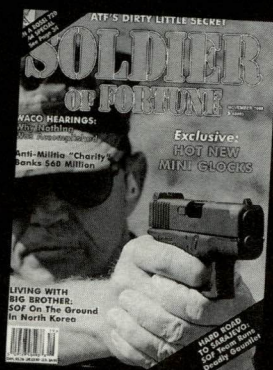
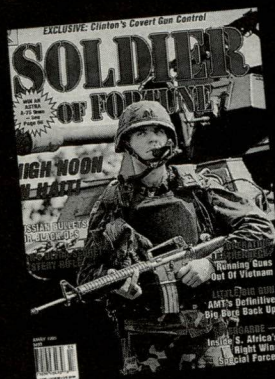
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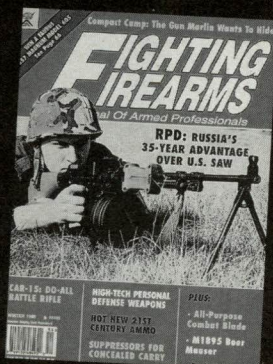
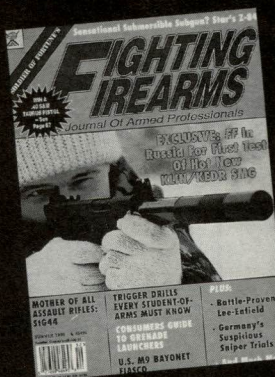
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# FOCUS ON:

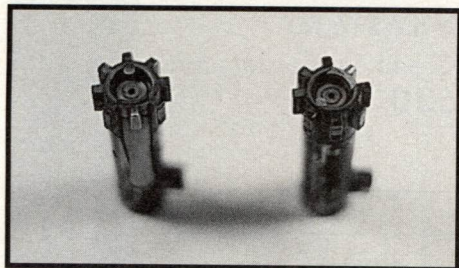
## The Steyr AUG



by **CARL SILVER**  
dba **SELECT FIRE**

I hope you enjoyed the series of articles on the antitank rifles and guns. This month, I am returning to the original mission of "Focus On," and concentrating on NFA firearm repairs, maintenance and modifications. My observations and experience are based on the recreational use (at machine gun shoots) of the Steyr AUG (Army Universal Gun).

I am left-handed and left eye dominant. Any readers who have shot an M16 on fully automatic from the left shoulder (especially with a suppressor) are familiar with the unburned powder and powder residue that is blown into your face by the *internal* gas system. The AUG (with the lefty bolt installed, picture 1) is a joy to shoot. The *external* gas system keeps the powder debris out of your face.



Picture 1: Left- (left) and right-handed (right) bolt assemblies.

### CONVERTED SEMI-AUTOMATIC AUGS

Most of the selective fire AUGs in civilian hands were made by installing sears (manufactured and registered before 19 May 1986) into the semi-automatic mod-

els. The bulk of the original conversions was done by Fleming Firearms and Qualified Manufacturing in Oklahoma. Hard Times Armory also made AUG conversions.

The serialized sears were installed into the hammer pack assemblies (picture 2), which were also engraved with the manufacturers name, city, state and serial number. On the AUG pictured in this article, the sear serial number has been "married" to the receiver serial number. This was done by listing the receiver serial number on the NFA registration and by engraving the sear information into the receiver. F.J. Vollmer & Company purchased these hammer packs and completed many installations.

Steyr also makes a three-shot-burst hammer pack (picture 3). This hammer pack has a movable selector to switch from three-shot burst to fully automatic (picture 4). Competent manufacturers can install a registered sear into a three-shot-burst hammer pack.

Unless it is absolutely necessary, do not disassemble the hammer pack. The hammer spring is a real thumbbreaker and it is diffi-

cult to reassemble.

### AUG GAS SYSTEM

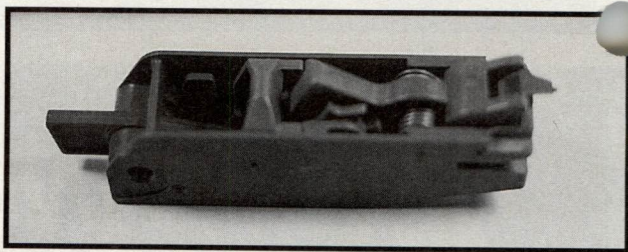
The gas system is an integral part of the barrel group and consists of the gas cylinder, the gas plug head, the gas piston with three rings, and the gas piston spring (picture 5).

The gas plug head has three positions, marked with a small dot on the gas cylinder (position 1), a large dot (position 2), and GR (grenade). Position 1 is used under normal field conditions. Position 2 causes higher pressure against the gas piston and is used in extreme cold or when the firearm is very fouled.

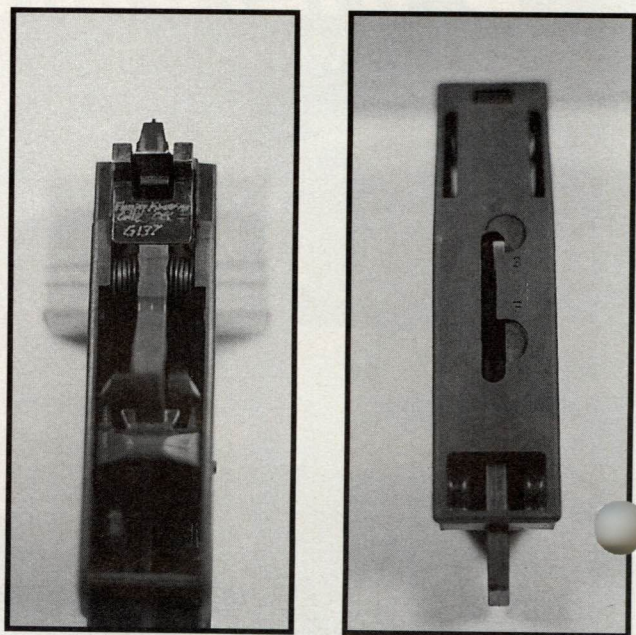
In position GR, the gas plug vents the gas from the gas cylinder, disabling the gas system. It is used for firing rifle grenades or for single-shot use with a suppressor.

### GAS SYSTEM OPERATION

When the rifle is fired, some of the propellant gas goes through the **gas port** into the **gas plug head** (see figure 1). The gas passes through an orifice in the gas plug. Some (or all, in position GR) of the gas is vented externally through **port A**, and the rest is directed against the **gas piston**. (In

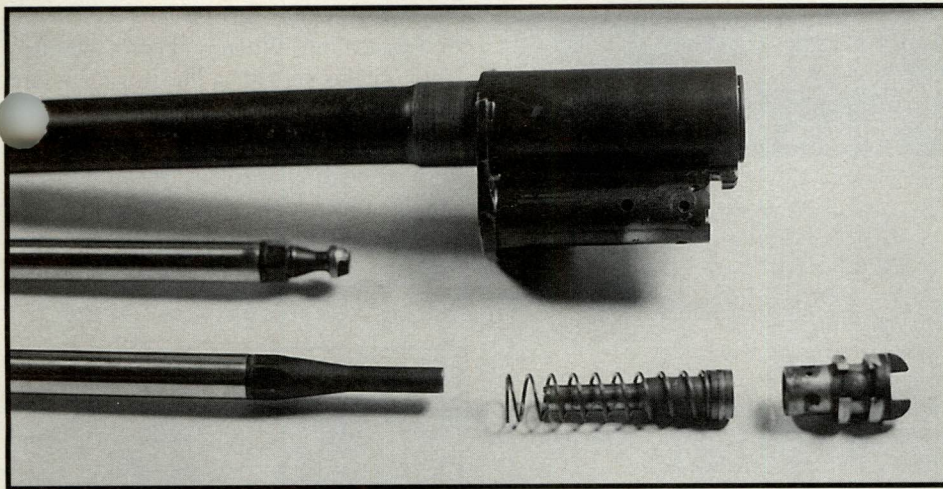


Picture 3: Three-shot burst hammer pack.



Picture 2 (left): Registered sear installed in hammer pack. Picture 4 (right): Selector switch on hammer pack: 3-shot/auto.





Picture 5: (Top) Barrel w/gas cylinder, (bottom) guide tube, gas piston spring, gas piston, and gas plug head.

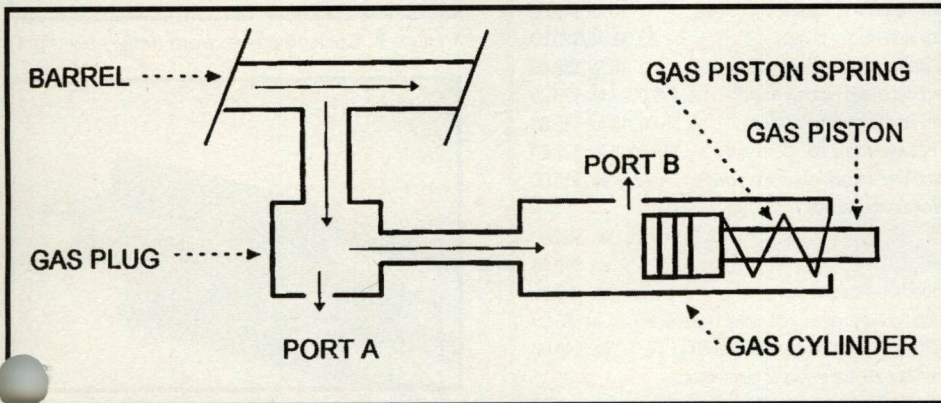


Figure 1: Gas system operation.

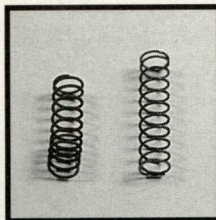
position 1, port A is 0.082 inches in diameter; position 2, 0.063 inches; and position GR, 0.128 inches.)

The **gas piston** pushes against the right-hand **guide tube**, operating the action. At the end of the gas piston's stroke, the gas is vented externally through **port B** in the **gas cylinder**. The **gas piston spring** returns the gas piston to its original position.

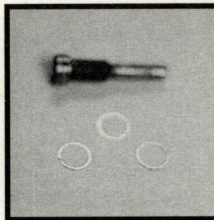
#### SPRINGS & RINGS

There are two components that fail in the gas system when it is subjected to abuse (This is not a weakness in the design, I am just recognizing that my "use" probably *exceeds* the original design parameters.) The **gas piston spring** (picture 6) loses its temper and collapses when overheated. The original overall length (uncompressed) is 1.75 inches. Replace your spring if it is shorter or deformed.

The **gas piston rings** (picture 7) will also fail due



Picture 6: Gas piston springs: defective (left), new (right).



Picture 7: Gas piston w/ three rings.

### Factory Specifications

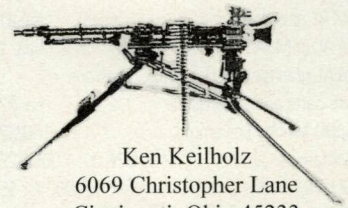
Caliber	5.56mm NATO
Overall length	31" (790mm)
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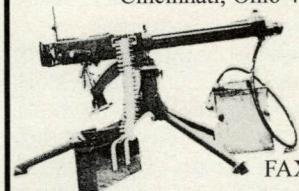
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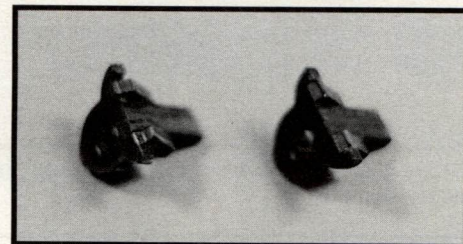
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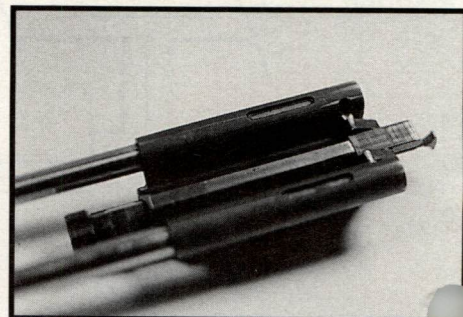
to overheating. When replacing the three rings, make sure that the ring gaps are spaced 120 degrees apart.

#### OTHER WEAR POINTS

The bearing surfaces of the **cocking piece** (at the rear of the lock assembly) can get beat-up (picture 8). Either repair by welding and reworking or replace it (picture 9).



Picture 8: Cocking piece: worn (left), new (right).



Picture 9: Cocking piece installed.

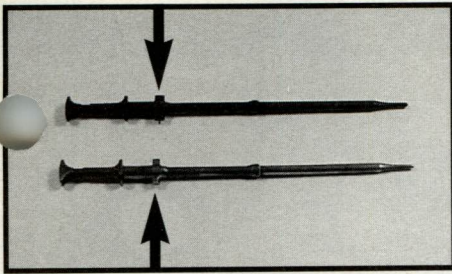
#### UNINTENDED DISCHARGES

When I first received my AUG, I was firing only military (crimped primers) ammunition in it. I was shooting at the range one day when a "cease fire" was called. I had just inserted a fresh magazine and chambered a round. While clearing the gun, I noticed a small indentation in the primer of the round I had just removed from the chamber. Further experimentation revealed that this happened only when chambering the first round from a magazine. The hammer was not releasing, so I knew it was from the inertia of the floating firing pin.

With the knowledge that most commercial primers are softer (more sensitive) than military primers, I then tried some handloads. Four out of five times, when chambering the first round from the magazine (with the reloaded ammunition), the first round would fire as soon as the bolt went into battery! This occurred even with the hammer pack removed from the gun.

After talking to several manufacturers, I discovered that there are different firing pins designed for the semi-automatic and the selective fire AUGs. Both of these firing pins have the same overall length. The

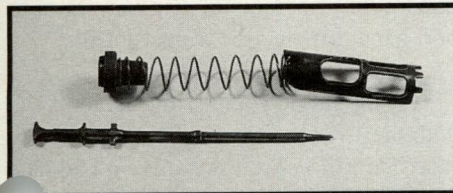




Picture 10: Firing pins: semi-automatic (top) and machine gun (bottom). Note: arrows indicate retaining tabs.

difference is in the width of the retaining "tabs" machined into the firing pin (picture 10). The tabs on the semi-automatic firing pin are 0.1325 inches wide, and the machine gun firing pin tabs are 0.0965 inches wide.

When the machine gun firing pin is assembled (picture 11), the locking piece spring preloads the "tabs" on the machine gun firing pin, making it non-floating, thus eliminating the unsafe condition.



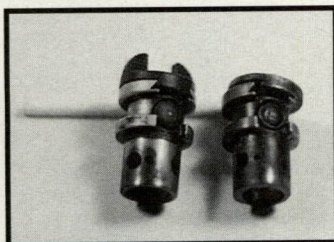
Picture 11: (Top to bottom) firing pin retainer, locking piece spring, locking piece, machine gun firing pin.

### MAKING THE "SHORTY"

The race to make shorter (and louder) machine guns was in full swing several years ago. The person that I bought my AUG from was caught up in this craze, and I received my AUG with an extra, chopped barrel. The barrel had been cut down from 20.0 inches to 13.0 inches.

The gas system had been modified by inserting a drilled setscrew into the exhaust port for the gas plug in the gas cylinder. This allowed the gun to function, but the setscrew kept blowing out.

I repaired the modified gas cylinder and then modified the gas plug. The exhaust port for position 2 was welded closed, then redrilled with a smaller hole (picture 12).



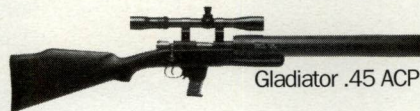
Picture 12: Gas plugs: standard (left), modified (right).

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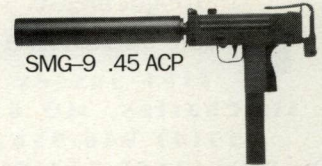
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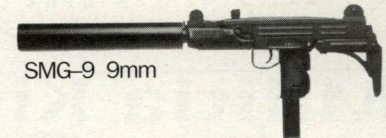
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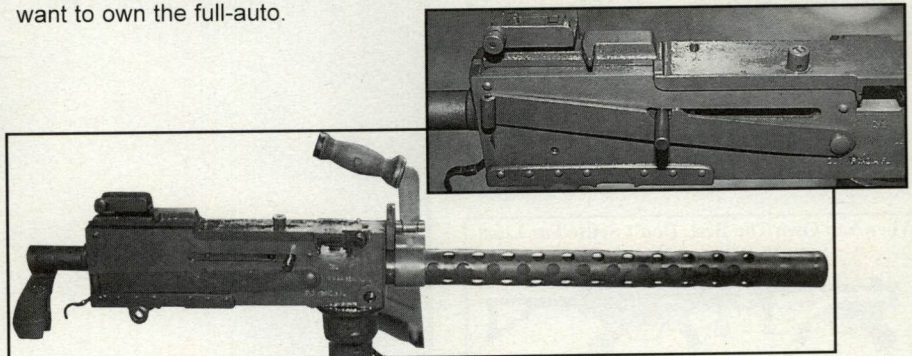
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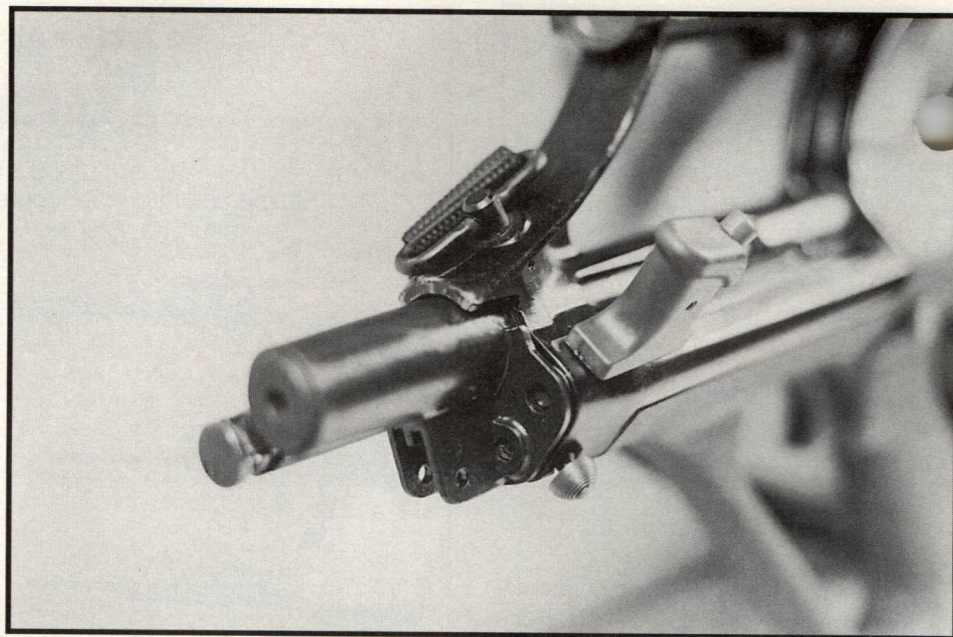
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Picture 13: Thirteen-inch barrel, installed.

This hole (port A) needed to vent some of  
the gas, while still allowing enough gas for  
reliable operation. Blocking the hole com-  
pletely would cause the gun to beat itself  
into little, broken pieces.

The technique used to size this hole was  
by firing down-loaded handloads and in-  
creasing the diameter of the hole until the  
firearm started to malfunction. At this  
point, the AUG functioned perfectly with  
normal ammunition. The final hole size  
was 0.040 inches (#60 drill).

The front hand grip was removed from  
the modified barrel (picture 13) to mini-  
mize the need for retrieving fingers from  
down-range. The proper firing grip with

the *super short* barrel is with the strong  
hand holding the pistol grip and the sup-  
port hand gripping the trigger guard.

### FIRING THE SHORTY

Firing single rounds out of the AUG  
with the 13-inch barrel is like a slap in the  
face. On full auto, it feels like a bad date  
with Mike Tyson. Picture 14 shows sin-  
gle shots from the 13-inch barrel. All of the  
light for the photograph was provided by  
the muzzle flash.

**Gun South, Inc.**

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*Spare parts for the Steyr AUG*



Picture 14: Gary firing the shorty (single-shot).



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## AR6721DC

Flat Top Upper Conversion in .223 Rem. with a 16 inch Full Heavy Barrel, 1 in 9 inch Twist. Bayonet Lug, Flash Hider, 2 Magazines, Universal Take Down Pin and Accuwedge Receiver Fitting Pin.

**Retail Price: \$599.00**



## R6851DC

Flat Top Upper Conversion in 7.62 x 39mm with a 20 inch Full Heavy Barrel, 1 in 12 inch Twist. Flash Hider, 2 Magazines, Universal Take Down Pin and Accuwedge Receiver Fitting Pin.

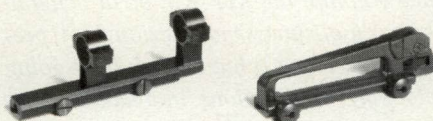
**Retail Price: \$569.00**



## R6700DC

Flat Top Upper Conversion in .223 Rem. with a 20 inch Full Heavy Barrel, 1 in 9 inch Twist. Flash Hider, 2 Magazines, Universal Take Down Pin and Accuwedge Receiver Fitting Pin.

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**Retail Price: FREE with kit**

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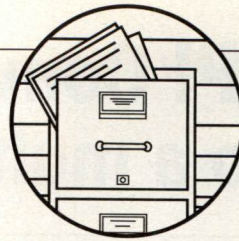
**WE ACCEPT**





# The Forms

by DAN SHEA



As noted last month in "The Forms," Mr. Thomas Busey is no longer Chief of NFA Branch. The new Acting Chief of NFA is Ms. Nereida Levine. She has been with ATF for quite a while and has previously been in Firearms & Explosives Operations. I have not yet had time to speak with Ms Levine. I am sure we are all interested in if the post of Chief will be a permanent one, and what changes, if any, she envisions in the procedures at NFA Branch. *MGN* will keep you advised in this column.

The two recent "government shutdowns" provided a lot of interesting comments from *MGN* readers and Class 3 dealers. During the first shutdown, the ATF headquarters in Washington had many of its employees out of work. Skeleton crews manned the offices: mostly higher ranking ATF employees. In some cases that I heard about, department heads were answering the phones—rather unusual. Transfers slowed down for that period of time, of course. When the shadow of a longer, more confrontational budget battle threatened another shutdown, many of us were anticipating a more serious interruption in transfers. We were pleasantly surprised to discover that NFA Branch and Import Branch were still chugging away with full personnel. It appears that agencies that had their funds approved were not furloughed, and ATF was one of them.

**Q** In May of 1995, you responded to my question regarding a Sten magazine conversion grip for my M11/9. Since that time, I have purchased a conversion grip from Craig Wheatley of Tactical Investments from Glen Burnie, MD. He advertises in the *Shotgun News* and has a very good product. But here's my problem. I have a preban Cobray M11/9 and a postban extra lower frame. I took the extra frame and installed the Sten mag well on it. Having not understood the fine print which said that "all frames must be assembled in a PM11/9 format." Would it be a violation for me to use my preban upper receiver on this modified lower? My next choice would be to assemble the extra parts kits that I purchased prior to the Crime Bill being signed. Which would be the legal

and proper path for me to follow? If I use the preban upper receiver on both frames, do I have to register the postban frame as a second gun? I have a copy of the *Machine Gun Dealer's Bible* and don't find this situation addressed there.

**A** *You can't find an answer to this in the AMGDB because I had never envisioned this question... First, we are referring to a semi-automatic M11 9mm pistol, not a machine gun. In its original form with the dreaded barrel threading, a dreaded weight of more than 50 ounces, and being a semi-automatic version of a dreaded automatic firearm, it is a "dreaded assault pistol." The definition of a "dreaded assault pistol" means it has two of the above characteristics. If the barrel thread is dropped, and the model is changed so as not to be an M11, then I suppose it is no longer a "dreaded assault pistol." That would mean that adding the preassault rifle ban upper with its threaded barrel would make it an illegal firearm...except, the criteria for having possession of an assault weapon was considered to be "having possession of all the parts" by ATF. If you have a receipt proving that you owned that lower frame and all the parts that would make that firearm an assault weapon, before the 1994 ban, then you can legally assemble it. Make sure you have all your ducks in a row on this, because if the assault weapon ban is not overturned soon and Clinton gets back in office, I guarantee you that the ATF will be directed to take this foolishness more seriously. At present, there is not a huge witch hunt going on looking for violations. Individual agents who want to "up their arrests" are doing it, and people who are skirting the law are being looked into, but at present I do not believe that many agents are concentrating on chasing American citizens for violations of a law that is actively being challenged for rescission. Why waste your time on arrests that will just get thrown out in six months? I wouldn't plan my life around that, though; the law is still, in any event, the law.*

**Q** I really enjoy *MGN* and I plan on entering the Class 3 world of private

ownership in the near future. I am a Special Agent for the U.S. Government (not ATF) and a firearms/SMG/automatic weapons instructor. As such, I enjoy shooting these weapons as part of my official duties. Even though I have ATF associates, they surprisingly lack knowledge on the legalities of ownership of even common garden-variety firearms. As the saying goes, "only enthusiasts do things well" and most of the ATF Agents I have known are not firearm "enthusiasts" and therefore are not well-versed on the legalities of firearm ownership.

My question centers around the privileges (admittedly unfair) that law enforcement agencies and officers retain concerning ownership of certain firearms and accessories. For example, I can still buy a newly-manufactured, preban configured AR-15 with bayonet lug and flash hider with my personal funds. I can still buy high-capacity ammunition feeding device manufactured after the magazine ban. I can buy both of these types of items at a substantially lower price than the average tax-paying citizen (once again unfair) because the average citizen has to buy these items from a shrinking-pool of pre-existing guns and accessories. This causes prices to continue to rise for those items. The AR-15 that I buy or the high-capacity magazine I buy costs less to me because there is no limit on its current production for sale to law enforcement.

I have noticed ads (in *MGN*) for substantially cheaper Class 3 weapons that are for law enforcement only. The dealer that buys these must provide a letter of demonstration for a law enforcement agency. Don't laugh Dan, but I was wondering (let's assume that I get the appropriate approvals from my law enforcement agency) if it's possible for me to purchase these weapons with my personal funds to be used officially along with my training functions, etc. to maintain proficiency with various firearms (as required by my job) and develop knowledge and familiarity of various weapons so that I may more effectively train my fellow agents, not to mention other official uses in personal protection and arrest situations.



I have noticed that most dealers offering these weapons indicate a requirement that an "agency purchase order" be submitted with the order. Does this mean that individual law enforcement officers are precluded from buying these special Class 3 weapons that are not transferable to private individuals, but transferable to law enforcement only? If an individual law enforcement officer can't buy that \$250 Thompson, then what police department is going to buy a WWII M1 Thompson in 1995 to "update" its arsenal? Finally, if the answer is "no," could I spring for the \$250 and donate the weapon to my agency for training (this rubs me the wrong way, but at least I would get to shoot it!)? Yes, I admit I'm a long way from earning the coveted RKI.

Name withheld on request  
**A** Ok. First off, you are 100 percent right on this provision of the assault weapon ban being unfair. One needs to remember that this law has little or nothing to do with stopping any "crime"; it has to do with disarming citizens. Inserting a provision that allowed law enforcement personnel to purchase, possess and eventually keep on retirement, those firearms that are no longer permitted to the general population was a public relations stunt by the anti-Second Amendment fanatics in order to gain the support of the general law enforcement community. It quieted a lot of officers who would generally have been quite vocal about infringements like this law.

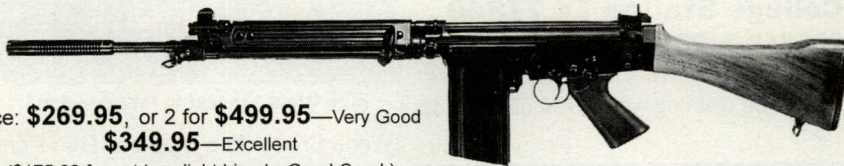
Unfortunately for you, there is no such provision in the 1986 ban on further manufacture of machine guns for private ownership. The law does not allow for law enforcement officers to personally possess machine guns manufactured or imported after May 19, 1986.

Many departments allow individual tactical officers to purchase a machine gun with their own funds and let the firearm follow the officer from duty position to duty position—as in buying a Post-86 LEO MP5 SMG, transferring it to the police department, and then signing the MP5 out to the officer as a duty weapon. If the officer moves to another PD, transferring the MP5 to his new station. It saves smaller departments a lot of money. This system is, of course, open to abuse, and departments should make sure that it is in the interest of the department policy to allow this procedure.

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These have been in storage since the mid 70's. The last price on Belgium parts sets was \$600.00 plus. Check with BATF for all current rules and regulations! These sets are sold as spare parts only, as is. These are not for sale to buyers of our upper receivers unless law-enforcement-only documentation is provided as in current regulations. Thumbhole sporter stocks also available.

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**T**he newly revised *Machine Gun Dealer's Bible* is a hands-on reference guide that is available anytime you need it. If you're a dealer already or an FFL who is contemplating becoming a machine gun dealer, you will have an easy step-by-step guide to refer to. From getting a license to actually doing business, the *Machine Gun Dealer's Bible* will provide you with the information you need. This book will save you a lot of aggravation, time and money.

Written by Dan Shea, Technical Editor of *Machine Gun News*, the *Machine Gun Dealer's Bible* explains:

### Individual Ownership

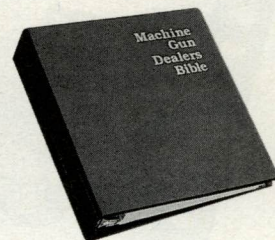
First Time Buyers  
 Individual Practices  
 Qualifications for Ownership  
 The Process  
 Law Enforcement Signature

### Getting A License

Purpose  
 Type of Business  
 Locating  
 Types of Licenses  
 SOT Classes  
 FFL Process

### Dealing with NFA/BATF

Working Relationship  
 Filing Transfers  
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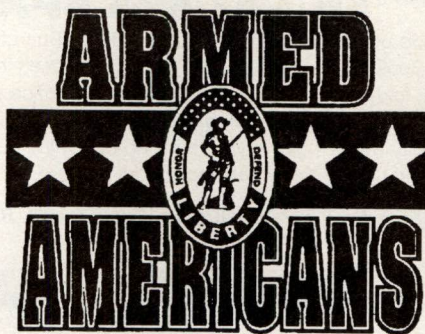
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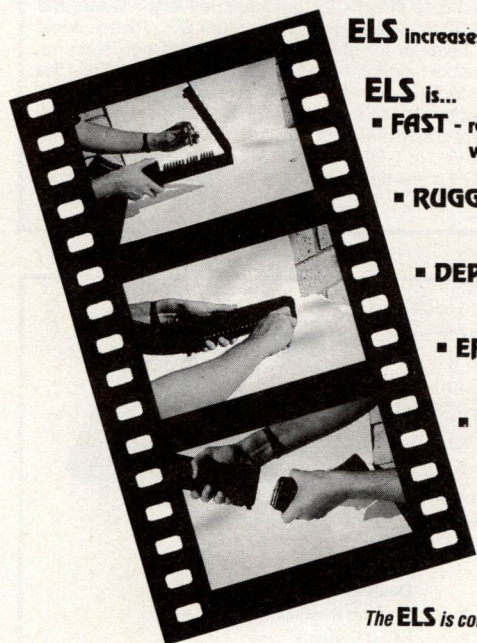
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Regarding the older firearms as dealer samples, it is a mistake to assume that modern is always better. To a department that needs some SMG firepower, but can't afford \$4,800 for four MP5's, spending \$1000 on four Swedish K's might make sense. Certainly they are old guns, but that doesn't mean they are not accurate, reliable, and functional. I personally train many officers with older submachine guns as a method of working on technique and understanding the function of a submachine gun in contact. You just can't beat a Swedish K for opening someone's eyes to accuracy in an SMG! Do I recommend the MP5? Of course I do...but the MP5 is not the only SMG on the market, and it is not the only accurate one either. Thompsons at \$250? Now, *THERE* is a bargain for any small department that wants to up its firepower. There are legal considerations to be made in a decision to purchase an older firearm. Of course, comments might be made in court about a department using WWII dated firearms, but leave that to the lawyers.

**Q** Reading the dealer's information sheet from ATF, the following hypothetical situation comes to mind:

Dealer is a former Special Occupational Taxpayer possessing several transferable and pre-86 dealer sample machine guns.

If the dealer changes to a licensed collector, but retains business licenses (municipal, county, and state), plus remains in business for nonfirearms transactions (e.g. appraisal, ammo, etc.), I read the information sheet as allowing retention without requiring a transfer. What is your and your sources' opinions of this situation regarding retaining the firearms with or without transfer requirements as long as the original business remains in operation?

I have recently renewed my FFL under the new requirements and have no known problems with future renewal but am curious and am interested in finding an opinion from a knowledgeable source without stirring up unwanted interest.

Miles Fortis, Rome, Italy

**A** I cannot speak for laws in your native land of Italy, Miles....

Here in the U.S., as long as you are a sole proprietor Special Occupational Taxpayer, you can just sign those machine guns over to yourself, no 4473, and list them in your personal firearms book. If



you let the SOT lapse, and you were in a corporation, there must be tax paid transferred on a Form 4 to yourself, and the pre-dealer samples are not going to make this transfer. They can only stay in the possession of a dealer. Even if the dealer drops his FFL, as long as he was a sole proprietor while an FFL and SOT, he can keep those pre-86 samples.

Remember that it is illegal to obtain an FFL in order to further a private collection. Keeping firearms inventory from a business is a side effect of having been in business. An individual who pays the tax, obtains a large quantity of machine guns, and drops the tax will ring some bells downtown: he will end up getting investigated for evading transfer taxes. Either be in business and try to buy and sell, or have the firearms transferred to yourself as an individual on a Form 4.

**Q** I am a Class 3 dealer and have been for two years. My place of business is in my detached garage located adjacent to my house. My FFL comes up for renewal in April of 1996.

Although I have not checked, I am certain that my property is not zoned for commercial purposes. I have not received my renewal packet yet, although from what I have heard, this will be a problem. I have

the necessary state business and sales tax licenses and always file a Schedule C on my tax return.

I have my law office which is zoned for commercial. It has burglar alarms on it and has a safe; however, the safe is not a gun safe.

If possible, I would like to move my business premises for the FFL to my office and maintain the bound record here. I would like to then "pencil in" in my bound book that the guns are kept in secure storage at the address used for my garage apartment and actually keep my guns at that location.

I would like to know if this will "pass muster" both in terms of renewing my FFL and should I face a compliance check from BATF. I would appreciate your advice as to any alternatives you can think of. I can truthfully state that my office address is commercially zoned, with a safe, and with alarms; however, I cannot, as a practical matter, store the guns here. In reading the *Machine Gun Dealer's Bible*, it looks to me like this would work, but I would appreciate your advice.

Name and address withheld

**A** You can indeed have your license one place and safe storage at another. As long as you have been "doing business,"

as in buying and selling some firearms, you should be alright. A note here: one of the signs of being involved in a "business" is advertising that business. Do you have ads for the firearms that you are selling? How can you prove that you are legitimately in business if you don't?

Your Achilles heel is going to be the zoning. Is it possible for you to go to the zoning board and get a variance for a no foot traffic home business? Many areas will do this. Approach the board as a small dealer in high-end collectible firearms who does not have customers coming in to his premises—no signs, no storefront. Do this well ahead of the inspection period that is coming up on your license renewal.

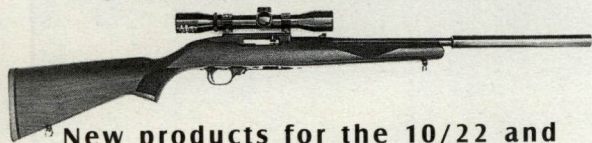
Should you run into a problem in your home location and decide to get your FFL changed to the office location, it is not necessary for you to discuss the safe storage of your firearms with the ATF. That is something that is your prerogative as a licensee. Make sure they are correctly penciled out of your bound book to the safe storage location at your home.

Questions to:

Dan Shea c/o MGN  
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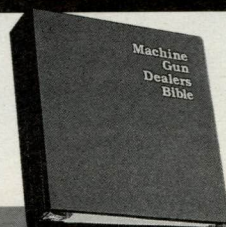
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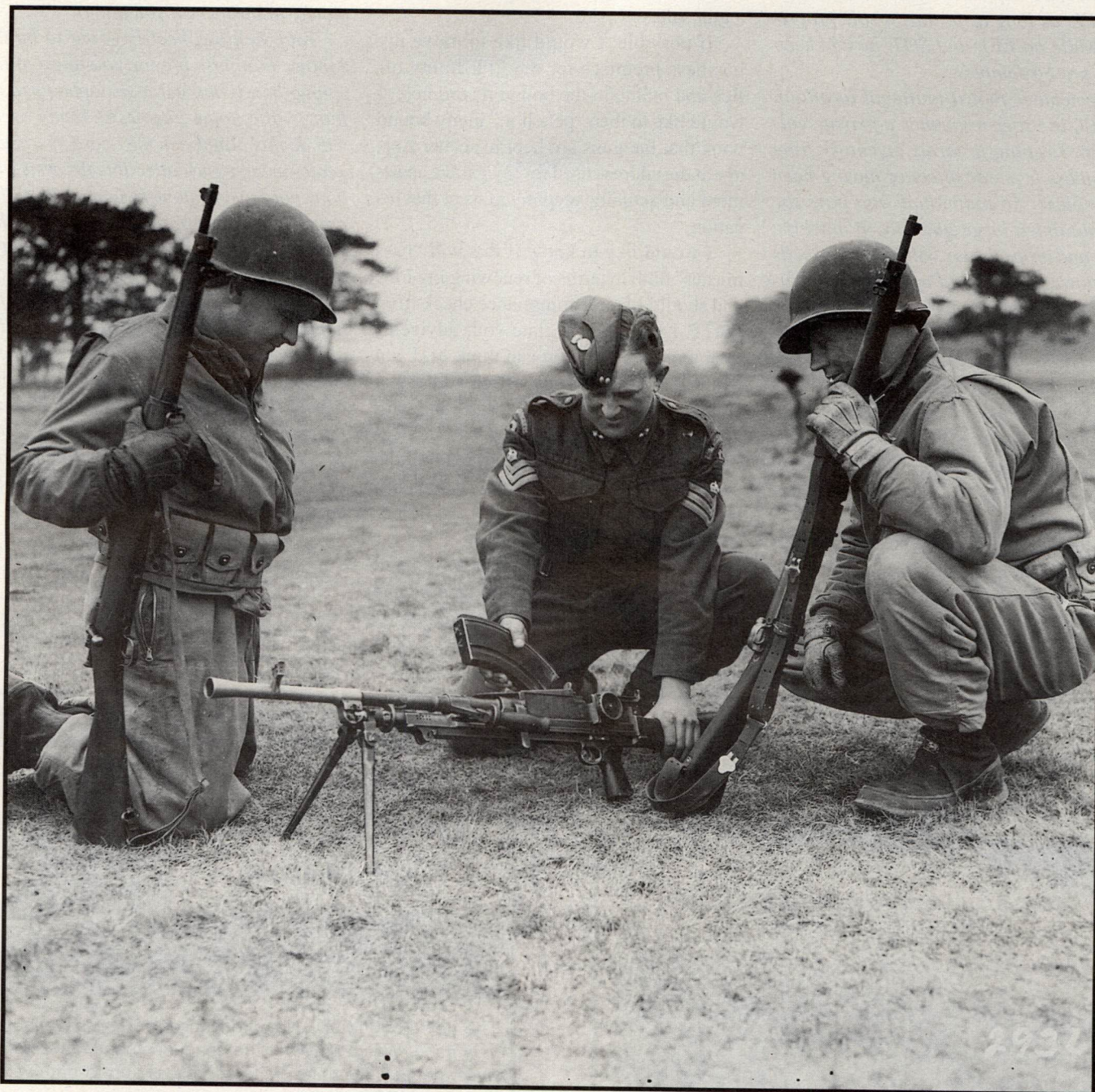
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# Archive Photo of the Month

*From the Robert Bruce Collection*



**SOMEWHERE IN ENGLAND, 10 MARCH 1944.** "PFC Alton Oxendine, former farmer of Fairmont, NC, and PFC Edwin Rogers, former painter of Jonesboro, NC, listen as Fred Martindale, a Quartermaster Sergeant in the British Army, explains a British BREN Gun to them on a firing range somewhere in England. Oxendine and Rogers are from 3rd Bn, 66th Armored Regt., 2nd Armored Div." Credit: U.S. Army Signal Corps/National Archives. Copyright © 1996 **ROBERT BRUCE PHOTOGRAPHY.** *Editor's 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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# CLASSIFIEDS

## WANTED

110

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**Wanted, Lahti** and Boys antitank rifle, dewatts, parts, mono pods, bipods, skies, mags, coffins, armorers kits. Steve (616) 455-7650, (616) 891-8893. (xfbe)

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**Wanted - An original M2 carbine** - must be marked M2. 03 C and R Collector, N.J. Miller, 1061 Old Ridge Rd., Greenbush, MN 56726 (218) 782-2140.

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115

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120

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**Post Samples:** Yugoslavian RPK w/75-rd drum \$1,000.; Chinese RPD like new \$1,000.; U.S. property marked M1A1 Thompson, \$500. Call Jim Ballou work (508) 465-5561 or home (617) 592-3994. (nov)

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#### APRIL '96 ISSUE CLASSIFIEDS CLOSE FEBRUARY 29 TH.

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Choose one of our classifications or give an approximate category choice. If you do not classify your ad, we will put it in the most appropriate category. Use the form below. (You may make a copy if you do not want to cut up your issue.)

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| <input type="checkbox"/> For sale 120   | <input type="checkbox"/> C&R 135                | <input type="checkbox"/> Handguns 150        | <input type="checkbox"/> Suppressors 165        | <input type="checkbox"/> Miscellaneous 180       |   |



# CLASSIFIEDS

**1. Calico select-fire** submachine  
Post-sample 1-50 round mag.,  
50 round mag., full stock, col-  
apsible stock, sling, scope mount,  
muzzle brake wrench, extra  
hydraulic cyclic rate buffer and mag-  
azine loader. With box and papers.  
Price: \$1500.00 Condition: excellent +.  
**2. USAS-12 select-fire** 12 gauge  
shotgun. Post sample. 2-10 round  
stick mags, 1-20 round drum, sling  
and cleaning kit. With box and  
papers. Price: \$2000.00 Condition:  
excellent +. **3. MP-5** Post-sample.  
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lower and 1-30 round mag. Price:  
\$1200.00. Condition: excellent +.  
Chris Choat, P.O. Box 36, Granada,  
CO 81041. Phone: (719) 734-5667.  
Fax: Same.

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inventory: Dealer samples  
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and more. No destructive  
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Box 42097, Portland OR 97242  
Attn WWI (xbfeb)**

## C&R

135

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two M1A1 Thompson, \$2300. ea.  
Three M50 Reising, \$600. ea. two  
AR18's, \$1800 ea. MP44, matching  
numbers, \$2800. STG44 matching  
numbers, \$2900. MP40, matching  
numbers, \$2100. Madsen 9 mm  
amnesty registered, \$1500. (520)  
742-4506, Jeff. (x)

**Group Uzi-Semi** carbines, NIB, the  
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63302. (314) 928-1511. (x)

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36 inch Krieger heavy barrel, 8-40x  
scope, bipod with tripod adapter,  
clam shell muzzle brake, and fresh  
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145

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160

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transfers for qualified residents.  
John: days (303) 594-6279, eves  
(303) 674-1760. (xjun)

**Virginia, law enforcement** and quali-  
fied residents, stocking dealer will  
handle your Class III needs and  
transfers. Mike (703) 481-5286. (x)

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## FULL-AUTO TRANSFERABLES

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H&K 51 .308 cal. reg. rec.	\$3200
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H&K MP5K SEF flap stud, new	\$3800
H&K 33-A2 SEF	\$2800
H&K MP5K push pin reg. rec. 3-shot, 4-pos. flap, new	\$6000
H&K G3K 14" push pin reg. rec. flap. new	\$4800
H&K Benelli 14" entry	\$ 850
MAC 10 Powder Springs 9 mm or .45 cal., new	\$1000
MAC 10 Powder Springs .45 cal., used	\$ 650
M11 9 mm, used	\$ 500
M1A1 Thompson by Pearl w/mags.	\$2400
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BM-59 w/5 mags., new	\$2200
Colt M16A1 10" barrel	\$2950
Colt M16	\$2400
Colt AR-15 sear gun 14" barrel	\$2200
AUG reg. rec. 3-shot, like new	\$6000
AUG 20" green, NIB w/5 mags.	\$5000
AUG 16" black, test fired	\$4600
Ballistic UZI carbine, new	\$2500
870 REM police model 14" A.O.W., NIB	\$ 500
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# CLASSIFIEDS

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165

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## DESTRUCTIVE DEVICES

175

**For sale:** 20 mm Lahti manual in English. A 56-page translation of the original 20 mm Lahti L39 antitank rifle manual. It contains detailed technical information on this weapon. This is the companion your collection has missed. \$60.00 USD (IMO, cheque or cash) includes airmail delivery of the translation. Please, mail orders to Mr. Robie Kulokivi, Lapinkatu 7 A, FIN-80260, Joensuu, FINLAND (x)

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180

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185

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190

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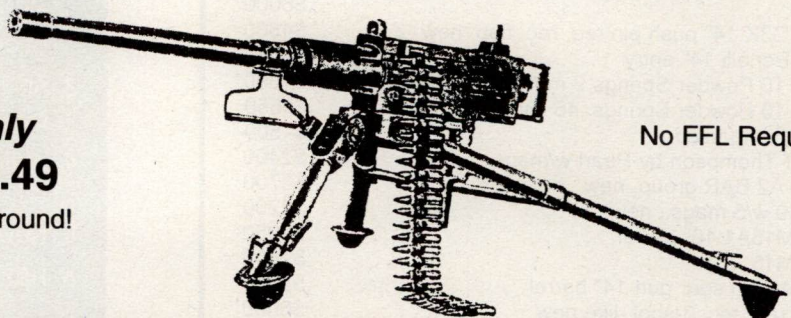
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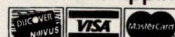


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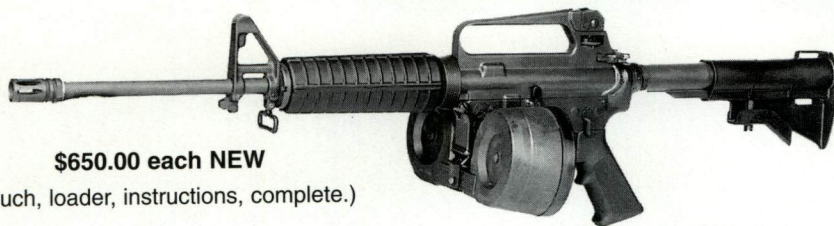
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