

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

THE GUIDE TO MODERN SMALL ARMS

Vol. 9 No. 11

# MACHINE GUN NEWS

MAY 1996

## The Stoner Chronicles

Part IV - The Stoner 63

# VIETNAM

LaserMax and  
the Glock 18

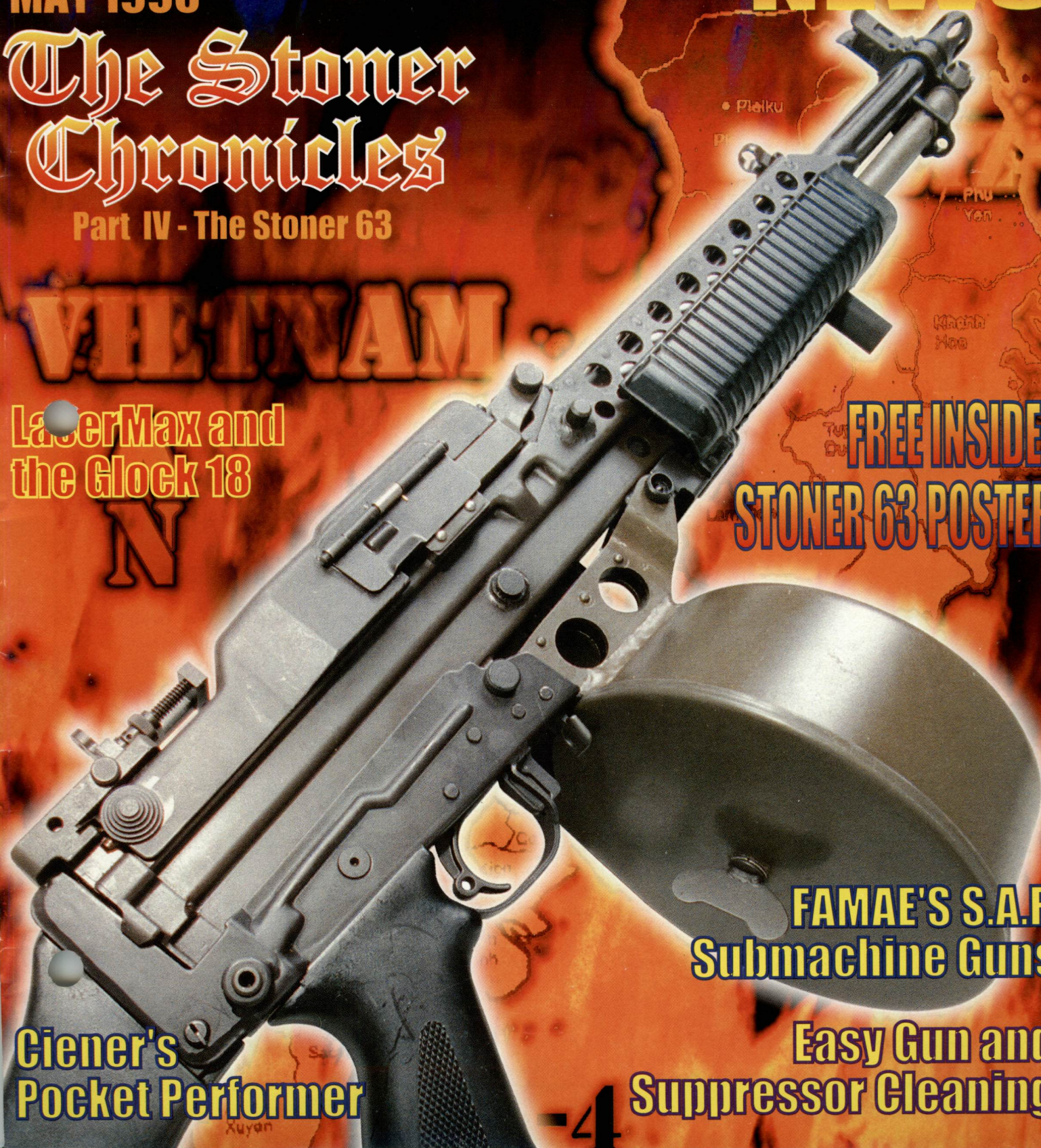
# N

**FREE INSIDE!**  
**STONER 63 POSTER**

Ciener's  
Pocket Performer

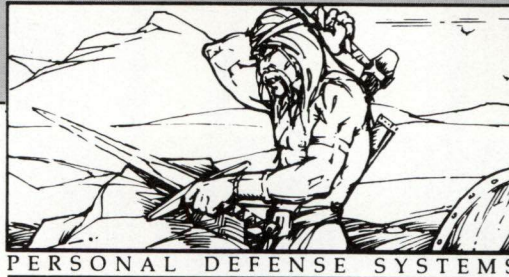
**FAMAE'S S.A.F.**  
**Submachine Guns**

Easy Gun and  
Suppressor Cleaning





# 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

LMO290 - AK47 in 7.62 w/folding stock  
MG892 - Colt M16A1, as new  
MG893 - Colt M16 carbine 14.5"  
MG348 - Transferable MP40 w/Erb tube  
MG894 - Hard Times AK-47 in 7.62 x 39  
MG561 - Steyr MPI-69, pre-86 DS  
MG510 - Uzi in .45 cal. new in box  
MG527 - Fleming AR180 in .223, new gun  
MG805 - Springfield SAR 48, as new  
LMO022 - Micro Uzi, bolt gun, like new  
LMO283 - MP5A3, SEF lower, sear gun col. stk.  
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  
MG560 - AUG, pre-86 DS, w/special rec. & hvy bbl.  
MG065 - N. Korean PPS41 w/orgn. drum

MG963 - Ithaca M37, as new, w/13 1/2" bbl.  
MG560 - Steyr Aug, DS  
MG093 - Suppressed MAC 10, very good w/box  
MG255 - Beretta AR 70 select fire, good shape  
MG548 - Fleming G3 new reg. receiver  
MG967 - MP5A3SD, pre-86 DS, excellent  
MG617 - IMI Uzi pre-86 DS  
MG659 - RPB MAC 10 in .45 cal. org. PS frame  
MG729 - SBR Daewoo K 1 w/10 1/2" bbl. as new  
MG965 - M11A1 in .308 cal., S.W.D., new in box  
MG039 - Sidarme 1915 Chauchat  
MG040 - Madsen M50 by S&H Arms  
MG041 - VZ 58 folder, have pair  
MG044 - Zastavia 56, original

MG805 - SAR 48, as new, w/mag & bipod  
MG065 - N. Korean PPS41 w/orginal drum  
MG097 - 1918 Marlin Rockwell, mint  
MG825 - R.P.B. M1 Carbine  
MG824 - AR 18 Armalite, original  
MG846 - Fleming G3, HK91 conversion  
MG848 - Fleming FNC w/col. stk.  
MG855 - Suppressed Marlin Bolt rifle 22 mag.  
MG066 - Universal U.S. carbine  
MG067 - M78 Valmet, like new  
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, DS  
MG855 - Suppressed Marlin Bolt rifle 22 mag.  
MG853 - Colt M16 carbine 14.5" bbl.  
MG911 - Ruger AC 566 full stk. w/short bbl.

**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 and call for prices.**



## STETCHKIN MACHINE PISTOLS!

The United States has stopped the importation of Russian material. Through a fluke circumstance, a small quantity of these ultra-rare machine pistols were allowed to come in. Because we had purchased and imported them initially in 1993, we only have a small quantity (less than 50). No more can come in! It seems that these are the only ones in the United States. These are in new condition (some storage wear) with all matching parts.

They are available to law enforcement agencies and Class 3 dealers with a demonstration request letter as follows:

**I. Stetchkin Machine pistol (9x18 Makarov) with matching buttstock, 4 extra magazines, and leather sling \$800.**

As a parts set these are unrestricted and can be sold to individuals:

**I. Stetchkin Machine Pistol parts set, complete with buttstock and sling, and receiver torch cut per NFA guidelines (magazines are only available to law enforcement agencies and dealers who are using them for resale to law enforcement.) \$895.**



P.O. Box 45, Harmony, ME 04942  
(207) 683-2169 ■ Fax (207) 683-2172

Class 10

LMO4MGS@AOL.com



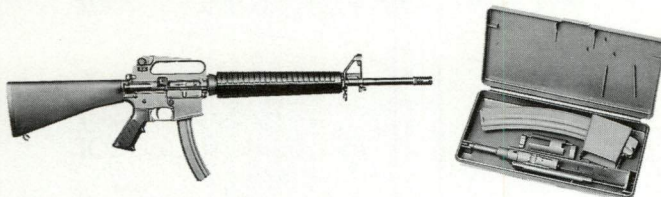


# Jonathan Arthur Ciener, Inc.

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"

### BERETTA 92/96 and TAURUS PT92/99 .22LR CONVERSION KITS Patented

The "CIENER"

### 1911A1 .22LR CONVERSION KIT Patented

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



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



Kit on Series 80 Colt

Kit in Fitted Case



Kit in Fitted Case

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



Kit on Beretta 92FS

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

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

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

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

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

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

## Jonathan Arthur Ciener, Inc.

Manufacturer of the Finest in Suppressed Firearms

"The Standard For Comparison"



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



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

Shipping - \$5.00 per Pistol/Supp., \$10.00 per rifle. NFA Dealer's fee is included.

Does not include Federal Transfer Tax.

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

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

### CURRENT RETAIL PRICES EFFECTIVE JANUARY 1996

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

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

8700 Commerce Street

Dept MGN.

Cape Canaveral, FL 32920

(407) 868-2200, Fax 2201



# MACHINE GUN NEWS

THE GUIDE TO MODERN SMALL ARMS

Volume 9 Number 11

May 1996

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Page 24 - Chris Choat firing the FAMAE S.A.F. Mini with side-folding stock attached.

On the Cover: Stoner 63. Photo: Jim Bonis

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Machine Gun News is published monthly to serve persons involved with the Class 3 industry and to provide a source for new products, news and information involving Title 1 and related firearms.

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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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# Robert Landies

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Please Include Shipping With Order!

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



**Firearm Only**

Superb Quality in Excellent Condition

**\$2500.00**

## FN MOD. 30 LMG IN .308 CAL.

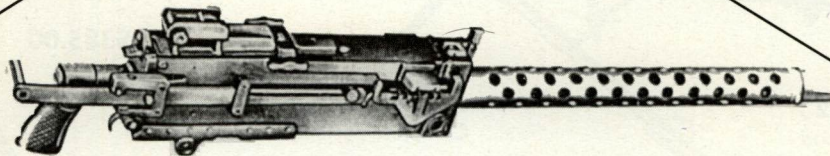


These Guns are  
Like-New Condition

(no tripod)

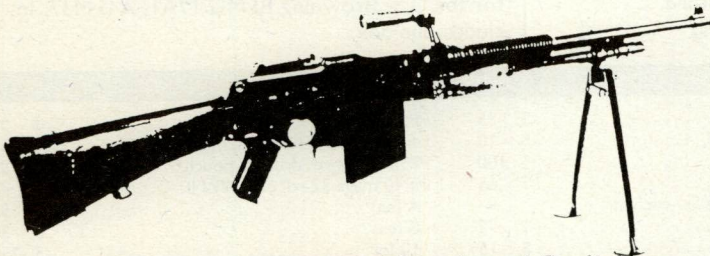
**\$350.00**

## THE BROWNING M37 LMG



**\$950.00**

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



Made on special contract from Israeli Gov't. New

**\$550.00**

## LAW ENFORCEMENT ONLY

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

**Must have letter of Purchase or  
Demonstration for Government Agency.**

**All Firearms in Excellent  
Functional Condition**

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



In Great Condition  
w/one stick mag

**\$450.00**

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

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



In VG+ Condition

**\$250.00**



**\$250.00**

**SWEDISH K EXCELLENT CONDITION**

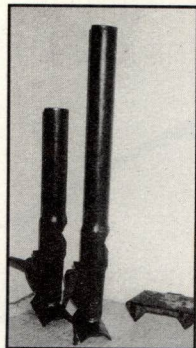


# Ohio Ordnance Works, Inc.

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Satisfaction Guaranteed  
Please Include Shipping With Order! • Returns To Be Made Within 10 Days

## British 2 inch Mortar



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

Comes with orig.  
shipping crate



## Original wwii mortars

Rendered unserviceable according to BATF specifications. However, they are still considered Title I firearms.

Must have standard FFL license.

Original WWII Russian 82 mm Model 37 complete with baseplate and bipod

**\$450.00** + shipping

## 1919A6 CONVERSION

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

## ORIGINAL FN BELGIAN M2 50 CAL.

Complete parts set with  
registered sideplate  
**\$2500.**



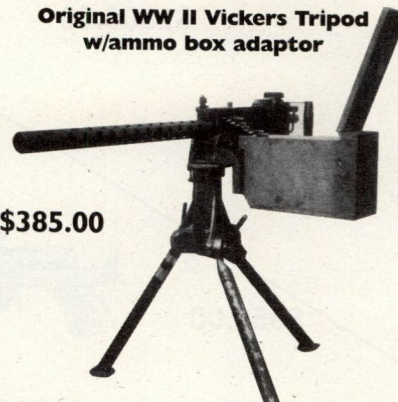
**FN BELGIAN M2**  
Complete with tripod  
T&E pintle  
**\$4500.00**

**FN BELGIAN M2 50 CAL.**  
Complete parts set  
no cut parts  
**\$1,550.00**

## WHY LAY IN THE DIRT?

**Original WW II Vickers Tripod  
w/ammo box adaptor**

**\$385.00**

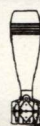


## Quality Machine Gun Complete Parts Sets

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. ....	\$ 200
MAT 49 .....	\$ 175
MAS 38 .....	\$ 200
Italian WWII Breda Model 30 6.5 .....	\$ 550
Beretta Model 38/44 .....	\$ 165
MAG 58 .....	\$4500
PPS 43 .....	\$ 150
Madsen Model 46, .30-06 .....	\$ 225
FND BAR .308 .....	\$ 625
1928A1 Thompson U.S., G.I. ....	\$ 350
1928A1 Thompson w/flnned barrel & Lyman sight U.S., G.I. ....	\$ 575
1928A1 Bolt compl. U.S., G.I., N.O.S. ....	\$ 150
1928A1 actuator U.S., G.I., N.O.S. ....	\$ 85
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

**FAX ORDERING LINE**  
**(216) 286-8571**

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



## Magazines

ERMA EMP 30-rd. ....	\$ 35	PPSh-41 Mags 30-rd. ....	\$ 35
M3 U.S. .45 cal.SMG 30-rd. ....	\$ 10	Lanchester-STEN 50-rd. mags .....	\$ 55
12 for. ....	\$ 100	PPSh-41 72-rd. drum & pouch .....	\$ 100
ZK383 30-rd. ....	\$ 65	MP40 mags 32-rd. orig WW II	
Madsen .30-06 30-rd. mag 5—each in		A (ea). ....	\$ 55
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,	
PPS 43 mags 30-rd. (ea). ....	\$ 35	excellent plus 95% .....	\$ 300

## Accessories

Vickers headspace disassembly tool .....	\$ 85	MG15 Barrels. ....	\$ 350
Vickers brass tab reloadable belts. ....	\$ 50	MG15 75-rd drum loading tool. ....	\$ 350
Vickers MK1 tripod, new condition .....	\$ 250	1919A4-A6-M37 IMI Mfg. .308 Cal. new	
FND Barrel .30-06 .....	\$ 100	unissued barrels, chrome-lined (ea). ....	\$ 100
FND Barrel 8mm .....	\$ 200	2 for .....	\$ 170
FND Barrel .308 cal. excellent .....	\$ 250	3 for .....	\$ 250
1908 Maxim sled mount top strap .....	\$ 250	1919A4 IMI .308 cal. links, new in	
1908 Maxim steam condensing hose. ....	\$ 100	wrap 2,000 for .....	\$ 75
Orig. Bren mag. chest with 12 mags		10,000 for .....	\$ 350
new unissued ea. ....	\$ 35	1919A4 .30-06 barrels, used. ....	\$ 25
M2 30 cal. tripod pintle T & E UK mfg. ....	\$ 350	5 for. ....	\$ 100
MG3 MG42 .308 Conversion set barrel,		1919A4 .30-06 barrels, new .....	\$ 50
flashhider, top cover, feed tray,		3 for. ....	\$ 100
Rheinmetall Mfg. ....	\$ 850	Orig. Vickers left-side plate .....	\$ 200
MG3 100-rd. assault box .....	\$ 100	P17 Bolts stripped .....	\$
MG3 complete bolt .....	\$ 400	Browning .308 broken shell ruptured	
MG3/42 .308 barrel 4140 Steel H.T. ....	\$ 250	case extracting tool .....	\$ 15
MG15 Gunner's Wallet-complete with 2 spare		British 303 broken shell extractor for	
firing pins, 2 spare extractors, 2 complete firing		machine gun or rifle .....	\$ 10
pin holders, ruptured case broken shell		MG34 feed trays .....	\$ 65
extractor and oiler .....	\$ 450	MG34 bolt extract tool. ....	\$ 35
MG15 Bolt complete .....	\$ 350		



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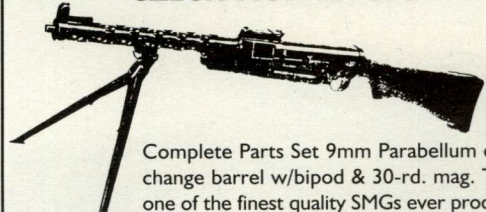
Satisfaction Guaranteed  
Please Include Shipping With Order! • Returns To Be Made Within 10 Days

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



Minus Receiver  
**\$200.00**

## CZECH MOD ZK 383



Complete 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

Less Bipod  
**\$200.00**

**\$250.00**

## ORIG M2, 60MM WW II MORTAR

Complete. w/sight, bipod, base plate  
& original. shipping crate  
**\$1250.00**

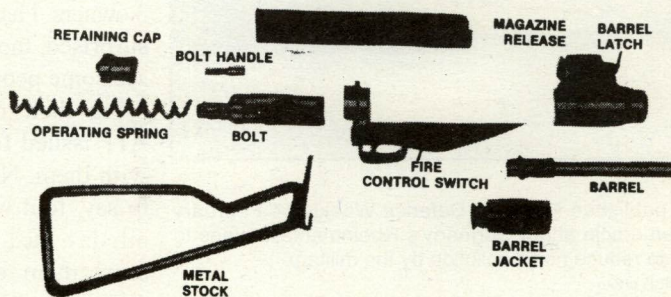


Bipod  
**\$250.00**

Shipping crate  
**\$65.00**

Fully transferable on Form 4  
to FFL individual or dealer

## ORIGINAL WWII BRITISH STEN MKII & MKV COMPLETE PARTS SET

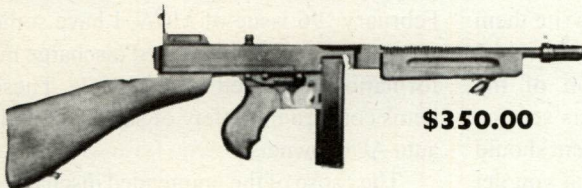


MKII.....\$150

MKV.....\$250

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

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



**\$350.00**

Original. WWII G.I. issue

50-rd. Drum  
Exc. plus cond.

**\$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**

## 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 WWII

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

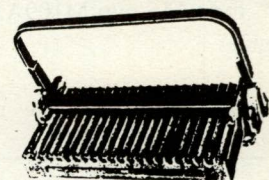
- Hot barrel pad ..... \$ 25.00
- Flashhider soaking can ..... \$ 75.00
- Firing pin (new cond.) ..... \$ 20.00
- Firing pin spring ..... \$ 10.00
- Bag of 20 orig. rubber flashhider covers ..... \$ 10.00
- Small parts cleaning brush .... \$ 10.00
- Disassembly spanner wrench . \$ 15.00
- Barrel carrier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

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

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

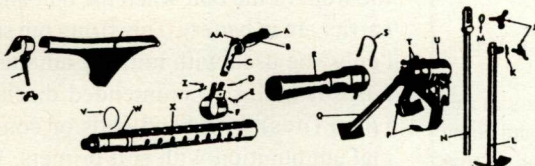
These still function in 8mm & .30-06

## BROWNING M3AI .308 CAL., LINK LOADING MACHINE



Complete with 2000  
new-in-wrap IMI .308 Links  
**\$275.00**

## COMPLETE 1919A6 CONVERSION KIT



1919A6 conversion buttstock,  
.308 barrel, barrel jacket, bi-  
pod, flashhider, carry  
handle new condition

**\$350.00**

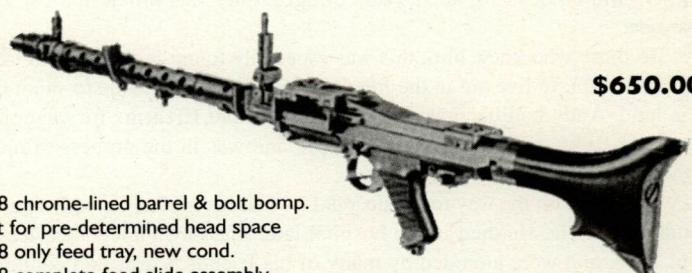
With .30-06 Barrel

**\$250.00**

## 1919A6 FLASHHIDER BOOSTER

**\$75.00**  
Very Rare!!

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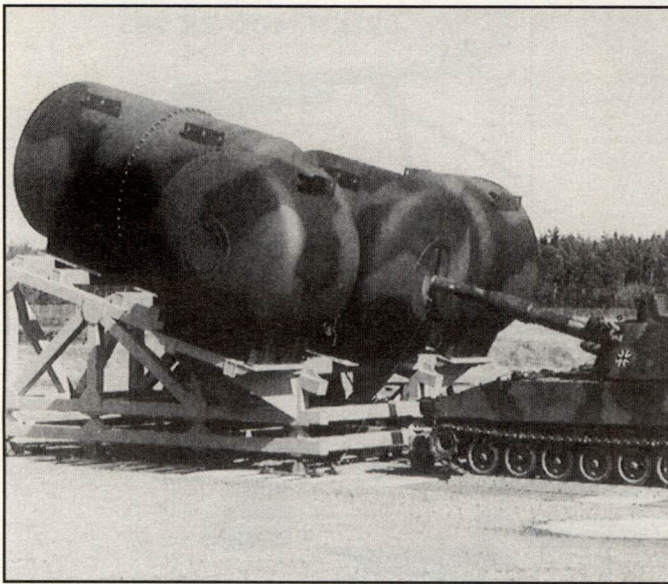
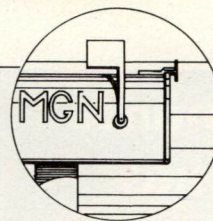


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# Incoming



This picture was published in Jane's Defence Weekly 14 February 1996 along with an article about Germany's Rheinmetalls plans to use this as a way to reduce noise pollution by the military.

Reinmetall Industrie GMBH photo

## SUPPRESSOR FOR A 155 MM M109A3

*We received this same item from several of our readers. We are publishing it along with comments from the subscribers that sent it to us.*

Here is a photograph that fellow MGN readers should find interesting. It's a "suppressor" for a 155 mm M109A3 self-propelled gun.

Joe R.

I thought that my fellow readers of

MGN would like to see the world's largest "suppressor."

Rick S.

Yeh, nice, but can they make one with a ported barrel?

Rich U.

## PRESERVING YOUR FORM 4's

I've had the pleasure of shooting with a good number of Class 3 owners. I have been surprised, though, to see some people carrying their original ATF issued form 4's with them. Needless to say, foul weather, oil, dirt, etc., can destroy them quickly. ATF states a copy of the original is suffi-

cient proof of registration and ownership. I have laminated copies of mine, making them almost immune to normal deterioration. I called ATF and inquired about lost form 4's. I was told you had to write them to request another, and include the serial number and a full description of the firearm. There is no cost for this service "at this time," and your replacement should arrive in about three weeks. What you get is a certified copy of their copy of the originally transferred Form 4. They do not re-

sue you another tax stamp. ATF admitted to getting quite a few requests of this type, due to lost or destroyed Form 4's. I personally feel more comfortable storing my originals in a safety deposit box. Hope this note may save some of you folks a headache.

Steve Matteo

## NORTH COUNTRY SHOOT CORRECTION

The Calendar of Events on page 58 of the March issue contained an omission. The dates for the North Country Shoot were misreported as June 22nd and the 23rd. The correct dates are June 21, 22, 23. We also gave you an old phone number in the point of contact information—603-537-1009 is the correct number for information on the shoot. Please see their ad on page 23 of this issue. We apologize for the error.

## "FOCUS ON" STEYR AUG CORRECTIONS

Thank you for your excellent technical articles. I look forward to getting Machine Gun News every month.

After reading the "Focus On": The Steyr AUG article by Carl Silver in the February '96 issue of MGN, I have some corrections to the unintended discharge information presented in the article. These items concern the safety of semi- and full-auto AUG owners.

The cause of the unintended discharges is the firing pins. There are two original types, plus I have seen several modifications to original firing pins. The first type is the original full-automatic firing pin. It can be recognized by its ungrooved head. When measured, the length from the front of the crossbar to the tip is 85.0 mm. This floating firing pin will extend 0.8 mm from the front of the bolt when the bolt and bolt carrier are in battery. This firing pin should "only" be used with military ammunition since it will give unintended discharges (slam fires) with handloads or commercial ammunition with soft primers. When Steyr redesigned the AUG to semi-automatic, one of the changes they made to the firing pin. The redesigned firing pin is the same length, and the crossbar is of the same thickness (3.3 mm) as the full-auto firing pin. *Continues on Page 68*

## IN MEMORIAM

Andy Yenchar was a friend to many of the people in the Class 3 business. The U.S. Navy veteran was well known on the "show circuit." A regular exhibitor at Knob Creek, Indianapolis, Pomona, Houston and Richmond, Andy and his mother Rose were steady fixtures. He could always be counted on for an interesting conversation and to help identify obscure and arcane militaria.

On March 8, 1996, at 51 years of age, Andy was killed in a car accident in Las Vegas, Nevada.

To those who knew him, this was especially tragic in that he had labored for years to fulfill his dream: to live out in the freedom of Nevada, to be able to shoot his weapons and enjoy the land. Andy had been saving ammunition and firearms for years in anticipation of that move. In 1995, he bought property there and was in the process of moving to the new land when fate intervened.

Andy was on the way to the hospital to visit his mother when the car he was driving struck another vehicle. He died in the hospital later that day. Funeral services were held on March 16, 1996, and were attended by many of his friends. Cards and condolences may be sent to Andy's mother, Rose Putt, at 13243 Dixie Highway, Holly, MI 48442.



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Cost of class includes 250 rounds of ammunition. Additional ammunition will be available for purchase.

Early registration for the "Live Fire Submachine Gun Class" is \$275.00 per person if a \$50.00 deposit is received before May 1, 1996. After May 1, 1996, the cost is \$300.00. To register, complete this form and fax it to (800) 508-8534, or mail it in to Omni Distribution, Inc., Training Division, P.O. Box 171154, Memphis TN 38187-1154. For more information call (800) 277-6664.

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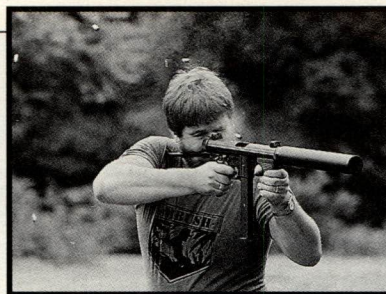
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# Raffica

(full-auto)

by DAN SHEA



*Among the other dangers of being disarmed, it causes you to be despised.*

—Niccolo Machiavelli

Rafficarians around the world should recognize the words of the great Italian Prince. The Right to Keep and Bear Arms is not about hunting or target shooting, it is about responsibility, duty and freedom, plain and simple. We military arms users are the keepers of the faith. Whether our interest is collecting, shooting, or military/law enforcement, our real obligation is in "passing on the torch." That said, I need to plug a "comic" book that I ran into at the American Firearms Industry Trade Show in Atlantic City. Aaron Zelman, Jay Simkin, and Alan Rice from the Jews for the Preservation of Firearms Ownership had a booth there (so did MGN). The JFPO has a new educational booklet called *Gun Control Kills Kids* featuring a WWII veteran grandfather explaining the historical truth about gun control to his grandchildren. "Gran'pa Jack" is a straight talking man, and he dispels the myths and lies of the anti-Second Amendment fanatics in the media. There is some strong medicine in here, and I am using Raffica space to tell you about it because I believe it is critical information.

**Number one:** The truth must be kept alive, even in the withering media storm of falsehoods.

**Number two:** MTV, Big Media, Big Education, and the Clinton Crowd are all hell-bent for leather to brainwash the next generation into sheeplike

somnambulism: disarmed and obedient to whatever the "Rulers" want to do with them. That is a recipe for disaster for our descendants.

"Gran'pa Jack" is an interesting read, illustrated well, and it is available from JP-FO (414) 769-0760 @ \$3.00 per copy, bulk rates available for you to pass around (100 copies for only \$38-!). Check it out and pass it on.

One of the interesting points that Zelman brings out in his book is about the Battle of Athens, Tennessee, that happened some fifty years ago. A group of corrupt public officials were rigging elections in the county, and it was turning into a dictatorship. Local WWII veterans banded together into a "militia," and in a courthouse battle, ejected the rascals by forcing them into free and open elections. There has been an educational and media blackout on this event, but with the 50th anniversary of the event coming up on 1 August 1996, perhaps it is time to give pause for thought. Perhaps it is something that should be taught to the children (of all ages). Another little piece of our rich American history, a fabric that seems to be missing key pieces when some people view it.

Back to machine guns—

**Q** It's very difficult in HK country to get information about American guns. I have bought the Ingram M11 you can see in the enclosed photos. The weapon is marked Ingram M11, Cal. 9 mm Auto, Military Armament Corp., Powder Springs, GA, USA, 3-3 000 5xx. The silencer marks are Military Armament Corp., Powder Springs, GA, USA, M11 Cal. 9mm, S 3-200 5xx.

Now my question: is it a normal M11? Was the silver-grey finish original made from MAC or was it done by somebody else? Is the suitcase original MAC?

Furthermore, do you have the data from the Winchester cartridge "MAC .380 SMG?"

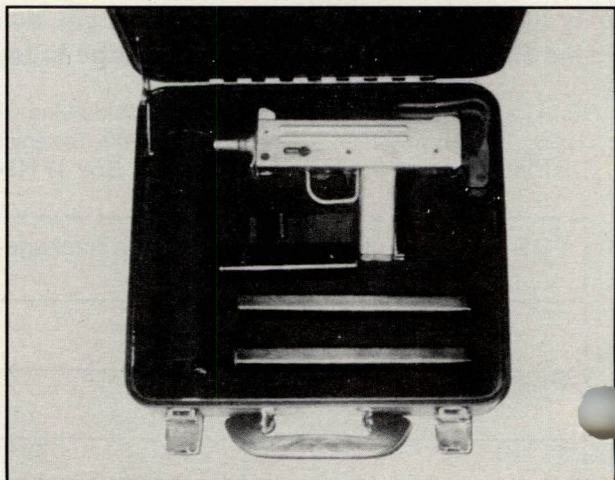
I AM LOOKING FORWARD TO THE ARTICLE OF HECKLER & KOCH MARKS, YOU PROMISED IN MGN 10/95!

Thank you and best regards from  
Germany

**A** First, this is a "normal" MAC-11 .380 caliber (9 mm Kurz) that is original to the first MAC run. The finish is not original, as far as I can tell from the photo. I have never seen a MAC that had that type of finish.



Ingram MAC-11 Cal. 9 mm Auto, Military Armament Corp., Powder Springs, GA, USA



Ingram MAC11 in case.



The briefcase is just a foam-filled transport case, cut out for this particular . . . It is nonfiring, and not original.

The MAC .380 ammo from Winchester was a small special run that I have never been able to gather much information about.

If any of the Rafficarians out there have seen that finish on a factory gun, or that particular briefcase for that matter, please write in.

**Q** I recently purchased a collection of submachine guns and have been calling all over the country trying to locate magazines for them.

If you know of anyone, or could put me in contact with someone who could provide me with magazines for the following weapons, it would be greatly appreciated.

Magazines are needed for Czech CZ-25 SMG 9 mm 25- or 40-round, Cobray M12 .380 ACP 15- or 30-round, Swedish K 9 mm 36-round, MAT-49 9 mm 30-round, Madsen M50 9 mm 30-round.

Bill P

**A** MAT-49 and Madsen M50 are easily available from Ohio Ordnance (216-285-3481). Swedish K and Czech CZ-25 mags are a little tougher—try Sarco (908-647-3800). The Cobray M12 .380 is the same as the MAC M11 .380 (original Powder Springs or RPB guns, not the SWD version which has a different shape), and the new plastic mags for the M12 are available from any Cobray distributor. The 30- or 50-round originals are rare and bring a premium—about \$125 each!

**Q** I am extremely interested in finding more information on the Rheinmetall MG17. Daniel Musgrave's *German Machineguns* is an excellent reference guide and the only source I've seen on the gun, but it still leaves a lot of questions. I'm interested in learning more about production figures: Volksturm conversions, ordnance tools, and disassembly procedures. Are there any other reference guides available? Would you consider devoting an article on the MG15/17?

Robert N

**A** The MG-17 is the aircraft version of the MG-15 LMG. It had a high rate of fire and used links (Gurt 17) that were similar to the MG-81 except they were non-disintegrating. The Germans

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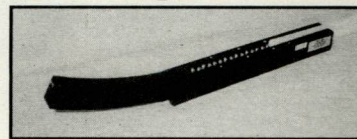
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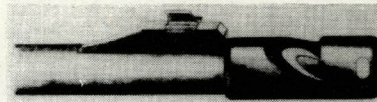
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felt the design was good for the aircraft use but made several changes in the sear-ing system. Aircraft have different needs (remote charging, remote firing, etc.). Most of the MG-17's that are in the U.S. have been converted back to MG-15 con-figuration, for convenience in shooting, or because the feed system is a nuisance to ground shooters on the MG-17.

More information can be obtained from Colonel George Chinn's volume 1 "The Machine Gun" on page 455, but the de-finitive information is still going to be in Musgrave's book "German Machineguns."

**Q** I would like for somebody to give me information about the (Spring-field Armory-Rock Island Armory M60 replica - SA1) machine gun. I saw an ad that RIA is selling an M60 replica for \$800. Does this thing really work? It seems kinda low in price. Is it worth it? I'd be happy if it was a reliable and fairly accurate semi-auto shooter. Do you think it will in-crease in value in the future?

Michael S

**A** Well, it's not a gun. Let's get that out of the way, first. RIA is selling a "non-firing replica M60." They do a nice job, and will look real good on your jeep or static display. RIA also manufactured a semi-automatic M60 which sells in the \$5,000 range and has had a limited pro-duction. RIA did manufacture full-auto M60's for a number of years in the 1980's, and many of them are available for pri-vate ownership via the paying of the stamp tax.

There are a lot of people who would be happy if they could get a "reliable and fairly accurate semi-auto shooter" M60 for \$800, but I don't see it happening.

**Q** In response to your request in re-gard to the Chartered Industries of Singapore, Ultimax 100 LMG; I have im-ported three units as "post-samples" for law enforcement use, with another one on the way. I do have a source for these firearms and accessories. Rumor has it that Chartered Industries will not export this LMG direct to the United States. In addition, this firearm which fires from an open bolt and utilizes either a 30-round AR-15 type magazine or a 100-round plas-tic drum was designed by a former assis-tant of Mr. Gene Stoner. Reed Knight has mentioned that the Ultimax drum was in

the original Stoner 63/63A machine gun drawing package and never produced. Fur-ther, the U.S. Navy Seal Teams did pro-viously field test this fine firearm but had a problem with the drum magazine being fouled by sand during reloading which dis-abled the firearm.

Your best source of information of the workings of this LMG should be directed to Reed Knight, as he has done a very thor-ough study.

John M. Appleton

(703) 385-6402

FAX (703) 385-4655

**A** I will pass this on to the Rafficari-ans. There are only two of the Ulti-max 100's that I know of that were im-ported to the U.S. before May 19, 1986. My personal experience with the gun was putting one magazine through one some years ago. I have not had the opportunity to do a full evaluation yet. When someone has one they don't mind shooting and tear-ing down, let me know.

**Q** First, great web page, it's a great resource. I have a few questions:

1. Is it still possible to buy a Uzi pi-stol? Is it a legal firearm or has it be-banned?

2. Are they any good or would a Glock or HK USP be a far superior weapon?

3. Any idea how much they would cost?

I would appreciate any feedback you may have.

Howard

**A** The Uzi pistol is in Emma Gee terms the "Micro-Uzi" submachine gun. That is an entirely different class of firearm than the Glock or the USP. Semi-automat-ic Uzi pistols are (subject to state or local ordinance) completely legal. They were banned from further importation into the United States, and manufacture here has also been banned. I have seen them for sale at \$2500 each, but never seen one sell for that. Usually they move at the \$1200 mark and many times significantly less.

Is it any good? Is it better than a Glock or USP? Tough question. That is going to relate to your use. The Glock and the USP are both fine firearms and are well suited to the professionals who carry them. I have carried both the Glock and the USP. Glock 17 was a little more comfortable as a carry gun to me (no accounting for taste), but the USP was superior at the range. I would never choose to carry an Uzi Pis-



tol because of the bulk and shape. In its initial role as a highly concealable bullet for undercover operatives or Chuck Norris, it's just fine.

**Q** I'm trying to locate some mags or convert some other mag to work in an Ingram M6. I posted messages to the board on the web site but no response. Are they that hard to find? I found two at \$225.00 a piece! Help!

MARKLE

**A** Oh, yes, they are *THAT* hard to find! The Ingram Model 6 is a .45 caliber open-bolt submachine gun, and it was one of Gordon Ingram's first SMG designs. Those who have the guns usually like them, because they shoot smoothly, and are very controllable. Two major sticking points are in the magazine—first, where can you get one, and second, the fact that the magazine can easily be inserted backwards. Problem one is just a circumstance of not making enough magazines to fill the demand forty years later. Problem two could have gotten *REAL* upsetting in certain situations that are inherent to carrying a submachine gun.

As far as converting another magazine to the M6 configuration, there are several immediate candidates that come to mind. First would be the M3 grease-gun magazine. The major problem, other than the M3 being too wide in every possible direction, is that the M3 is a dual stack magazine that feeds from the single position. Major feed lip work would be involved to bring the cartridges into the proper feed presentation, as well as a new follower. More appropriate would be the Thompson magazine, which is a dual stack feed from either position just like the M6. The Thompson problem would be in removing metal from the rail (guide) at the rear of the magazine, then ensuring that the feed lips are long enough to keep the round presentation to the feed ramp at an appropriate angle. This does not appear to be insurmountable, and if you have the time and tools, as well as some skill with metal, I would be interested in seeing the results—as would most Pafficarians.

Questions to:

Dan Shea c/o MGN

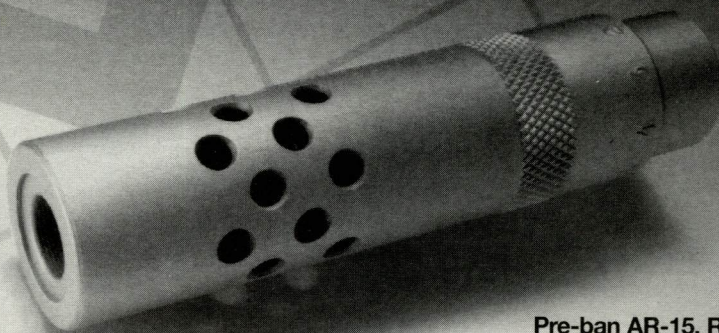
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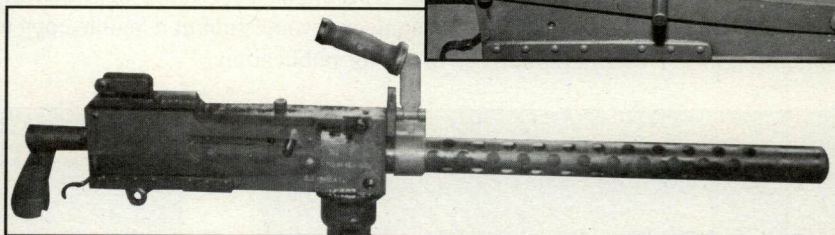
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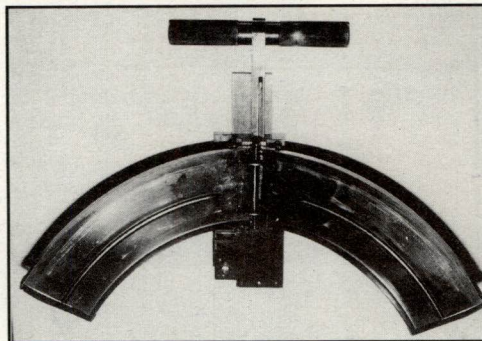
# Mystery Photo

by DAN SHEA

The Mystery Photo section was a regular "Raffica" feature—we have moved it to its own place of honor here in MGN. Each month we will present a photograph of an interesting part or accessory—we promise not to put ridiculous screws or nuts in here—and each will be something of interest to the Class 3 community. You can send in your answers to Mystery Photo, MGN, P.O. Box 459, Lake Hamilton, AR 71951, fax them to (501) 525-7519, or E-mail your response to [MGNews@aol.com](mailto:MGNews@aol.com). We will accept interesting photos from the readers, as long as they are accompanied with a full description of the parts in the photo. Those of you who answer correctly will be awarded the "Order of the RKI," a certificate that proclaims you to be a "Reasonably Knowledgeable Individual." This certificate is suitable for framing and will make a nice conversation piece on the wall next to your other accolades and honors. Besides, it gives you bragging rights!

**E. Sunde:** I believe your January Mystery Photo is the magazine loader (with magazines) for the Swiss SIG Mod 35 gas-operated twin magazine fortress machine gun.

**Dan:** Noooo, it's not. It's the belt loading mechanism for the Finnish VKT Maxim M-32 machine gun. But man, have you ever got my curiosity piqued! I can't give you a "Coveted RKI Award" on this, but if you send me some photos, manuals, diagrams, history, or other information on the "Swiss SIG Mod 35 gas-operated twin magazine fortress machine gun," I will personally



January 1996 Mystery Photo Answer.

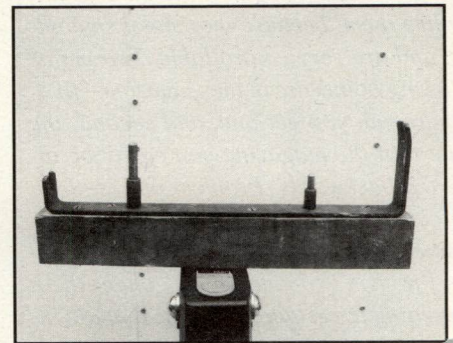
make sure you get that RKI! I have never run into that particular model, ever.

**Warren L. Wahrmund:** In quest of the Coveted RKI Award, I submit the following identification of the Feb. '96 Mystery Photo. It is a holding plate for winding and loading a 100-rd Bren gun drum. One was packed in each crate of four drums.

**Dan:** 100 percent correct! You get the Coveted RKI on this one. Recently there were quite a few of these four-drum sets that arrived in the U.S. and were sold fairly quickly. This photo was taken at Knob Creek.

**Ned Hogan:** The latest Mystery Photo is one of the drum "holding plates" used to load and tension the 100-round Bren drum. I have had some trouble with the drum magazine adapter I received with mine and would be interested in hearing if anyone else has experienced problems with that. Also, the instructions in my set were illegible. It would be a service to the fraternity if someone would submit a legible copy to MGN for publication.

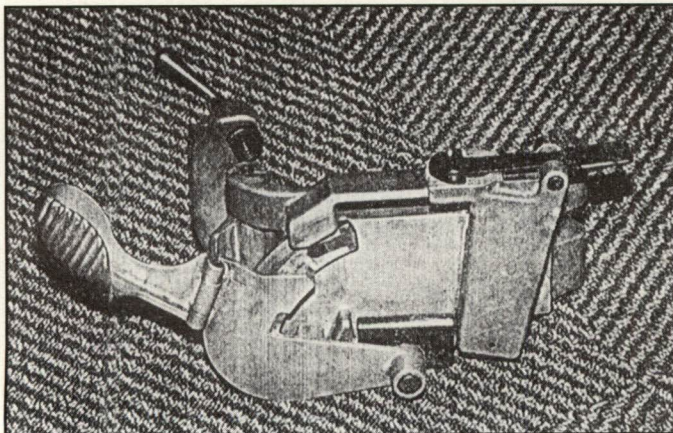
**Dan:** Ned strikes again—100 percent correct. I have also heard there were some problems with the magazine adapters. I am going to look into it further and would appreciate any feedback from the readers out there. As far as the instructions go, we would also be interested in seeing an original or legible copy of these. Send to MGN... So Ned, do you want me to just update your RKI on a monthly basis?



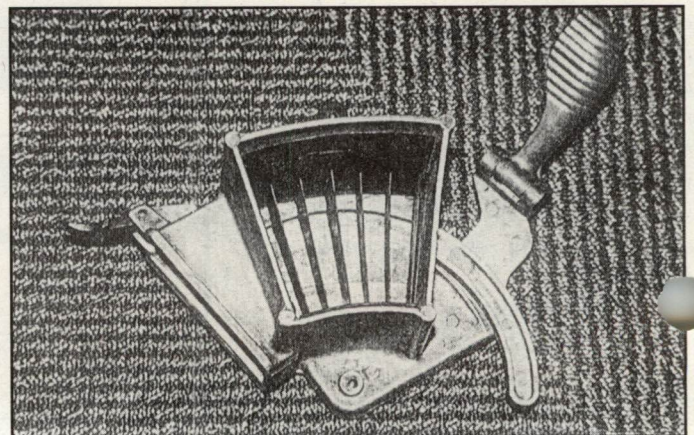
February 1996 Mystery Photo Answer.

**Ralph Daniel, Hampshire, England:** The February Mystery Photo is a holding plate—"holder, filling and winding" for the 100-round Bren magazine. I've got one in my box of four mags. All that was missing was the magazine adapter, which I was able to buy recently through an advertisement in MGN. You'd expect a Brit to know a little about the Brens—even Peter K says, "The best mag-fed LMG there is...still!"

**Dan:** Another RKI award crosses the Atlantic. Ralph also submitted some interesting photos that I thought might make a good pair of "Mystery Photos." MGN



May 1996 Mystery Photo.



May 1996 Mystery Photo.



# BRITISH WW2 ISSUE STEN MKII SMG PARTS SETS

Long unavailable, these are complete parts sets for the famous WW2 Sten MarkII Sub-Machine guns WITHOUT RECEIVER TUBE. All parts supplied including the detachable shoulder stock and magazine.  
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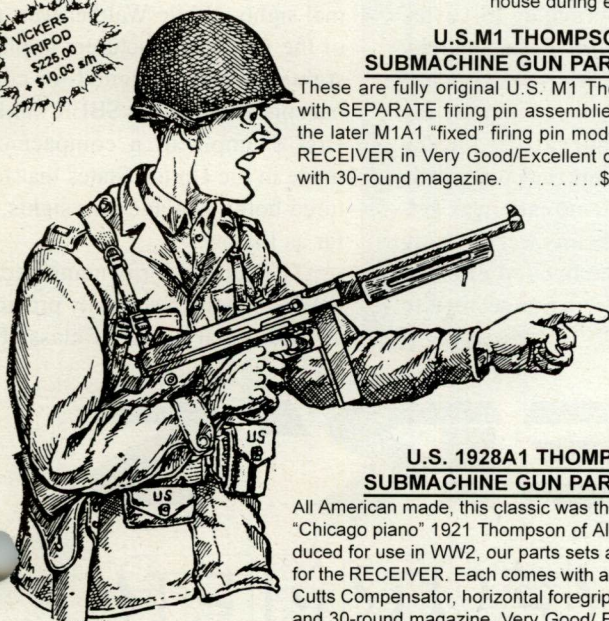
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3. Minimum order on Credit Cards \$20.00.
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As used with the  
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Or we have a few with PLAIN barrel.

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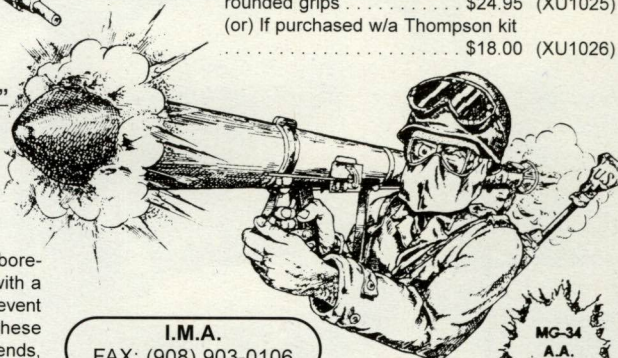
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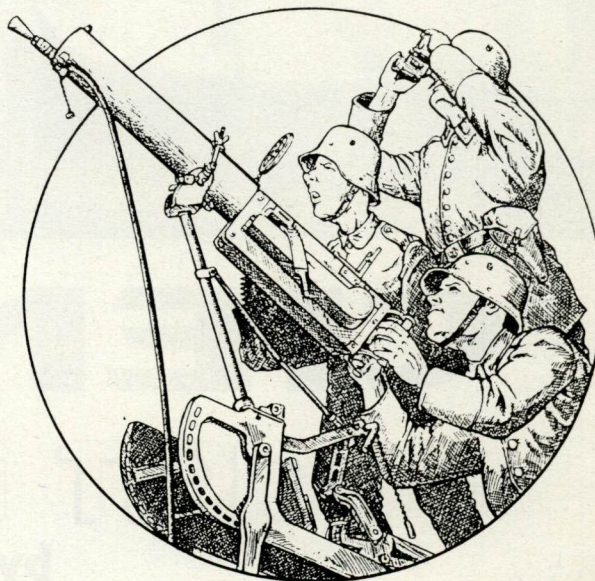
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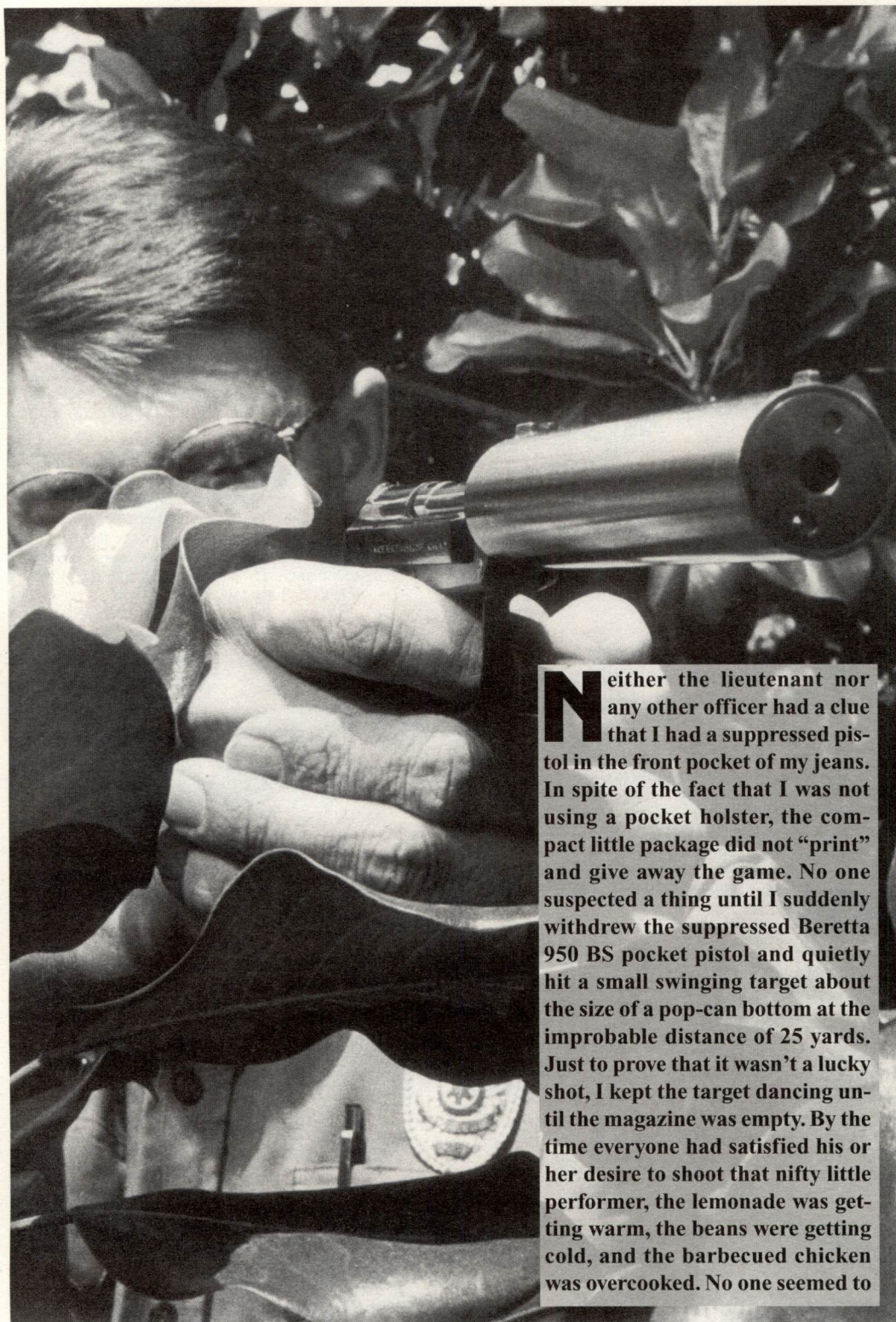
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**N**either the lieutenant nor any other officer had a clue that I had a suppressed pistol in the front pocket of my jeans. In spite of the fact that I was not using a pocket holster, the compact little package did not "print" and give away the game. No one suspected a thing until I suddenly withdrew the suppressed Beretta 950 BS pocket pistol and quietly hit a small swinging target about the size of a pop-can bottom at the improbable distance of 25 yards. Just to prove that it wasn't a lucky shot, I kept the target dancing until the magazine was empty. By the time everyone had satisfied his or her desire to shoot that nifty little performer, the lemonade was getting warm, the beans were getting cold, and the barbecued chicken was overcooked. No one seemed to

notice. Conversation kept returning to the amazing performance delivered by the silenced pocket pistol. That picnic was in the mid-1950s but I still remember it fondly. Furthermore, I've never tired of bringing out that silenced Beretta for picnics and family gatherings. Jonathan Arthur Ciener did his homework well on his Model SBER suppressed Beretta.

Ciener's Model SBER suppressor remains a class act, even though the internal design is quite dated. Constructed of steel and blued to a dark finish that nicely matches the Beretta, the suppressor measures 5.0 inches (12.8 cm) long and 1.0 inch (2.5 cm) in diameter.

The special extra-length barrel used in the suppressed system features four rows of three ports per row near the muzzle of the 3.75 inch (9.5 cm) barrel to dump combustion gases into the primary expansion chamber, which extends about 9/16 inch (1.4 cm) beyond the muzzle. Eleven tightly stacked baffles fill the remainder of the suppressor. The suppressor tube is indexed to the rear end cap with a set screw to ensure proper alignment of the simple sights on the tube. Since the object of shooting, in my opinion, is to hit the target, I've long been an advocate of placing sights on pistol cans that occlude a pistol's normal sights. While Walther was one of the first manufacturers to place sights on cans designed for compact pistols, Ciener's SBER was the first example of a compact can made in the United States that featured both front and rear sights, as far as I know.

The suppressor is numbered to the pistol, which certainly provides an additional touch of class. The

# CIENER'S

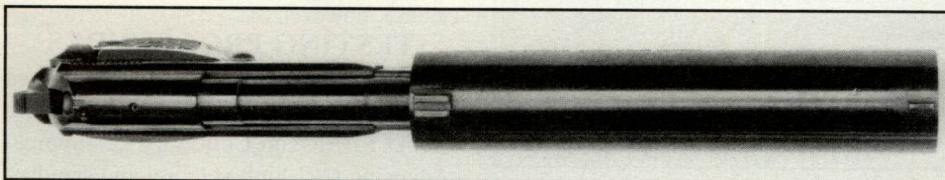
## POCKET PERFORMER

by Al Paulson



numerals are the same, except that the suppressor's serial number begins with the letters "SBER" while the pistol's serial number simply begins with "BER."

Two variants of the Beretta 950 BS pistol are produced in the United States. The version chambered for the .22 Short cartridge is called the Minx, and the version chambered in .25 ACP is called the Jetfire. The Ciener SBER system is based on the rimfire variant of the Model 950 BS. Pistols of both calibers are commonly reported to have a barrel length of 2.5 inches, but the barrels actually measure 60 mm, which works out to 2.36 inches. Overall length is



Above: Ciener's Model SBER suppressor with special extra-length barrel enables the Beretta Model 950 BS pistol to deliver remarkable accuracy.

Left: Since the object of shooting is to hit the target and the SBER suppressor occludes the pistol's sights, Ciener placed simple yet highly effective sights on the suppressor tube.

about 4.5 inches (11.4 cm). The .22 Short pistol weighs 10.2 ounces (289 grams) with an empty magazine, while the .25 ACP variant weighs 9.9 ounces (280 grams). Ciener's SBER system has an overall length of 9.5 inches (24.2 cm) and a weight of 18.1 ounces (513 grams). Thus, Ciener's SBER system is about 5.0 inches (12.8 cm) longer and 7.9 ounces (224 grams) heavier than the standard pistol.

The Beretta 950 BS is a single-action pistol featuring an open-ended slide and a barrel that is pinned to the front of the frame, so it can be tilted up to facilitate loading and unloading the chamber. The .22 magazine holds six rounds, and the .25 magazine holds eight rounds. While the barrel and slide are constructed from steel forgings, the frame is made from an aluminum forging that is hard-coat anodized a rich black which blends well with the deep blueing of the steel components. Small parts are also constructed of steel and are hardened according to each part's individual function. The pistol's inertial firing pin adds a measure of safety if the gun is dropped or struck while the chamber is loaded. It is important to note, however, that dry firing can break the firing pin unless a fired case is first inserted into the chamber to cushion the hammer. With that single caveat, operating the Minx or Jetfire is straightforward, even though the design has several novel features. While the operation and maintenance of the .22 and .25 caliber Berettas are the same, the following discussions will focus on the Minx, since the Ciener SBER suppressor was de-

signed specifically for the .22 caliber variant of the Model 950 BS.

### Operation

The Beretta Minx operates on the simple blowback principle. A manual thumb safety on the rear left of the frame can be engaged when the hammer is in the half-cocked or fully-cocked positions. When in its upper position, the safety is engaged. When in the lower position, a red dot is visible indicating that the gun is ready to fire.

To load the pistol to maximum capacity, begin by cocking the hammer and then engage the safety. Release the magazine by depressing the button in the lower rear of the left grip panel. Load the magazine with six rounds. Some people seem to experience difficulty when attempting to insert the magazine into the magazine well. This problem can be avoided by using the following three-step kata.

- (1) Insert just the top few millimeters of the front of the magazine into the well at a slight angle (ca. 15-20 degrees).

- (2) Rock the base of the magazine rearward until the back of the magazine is parallel with the magazine well.

- (3) Push the magazine into the well until it locks into place.

This process, while deliberate, works in a continuous, fluid motion that takes no more time than loading a Glock pistol.

Now tilt the barrel up by pushing the barrel lever (located on the left side of the frame just behind the trigger) forward. Insert a cartridge and rotate the rear of the barrel downward until a loud click indi-

cates that the barrel has been locked in place by the barrel lever.

Alternatively, a round can be chambered by racking the slide back by hand, and then smartly releasing the grip on the serrated slide so the main operating (recoil) spring can push the slide forward and strip a round from the magazine. This process, of course, will only make a total of six—rather than seven—rounds available to the operator.

### Disassembly & Maintenance

While disassembly and maintenance of the Beretta 950 BS in general—and the silenced Minx in particular—are intuitive, several eccentricities may be surprising.

Begin disassembly of the silenced Beretta by removing the magazine. Release the barrel by operating the barrel lever, which will cause the rear of the barrel to rotate upward. If there is a round in the chamber, special care must be taken to remove it since the pistol does not have an extractor. There are two options: point the barrel in a safe direction and gently push out the round with a cleaning rod; or lock the barrel in the closed position (with the magazine removed), and fire the pistol into a safe backstop. Rotate the barrel upward again and verify that the chamber is empty. Rotate the barrel about 90 degrees downward. Grasp the front of the slide, pull rearward about 1/4 inch (6 mm), and lift the front of the slide above the frame's barrel hinge. Push the slide forward until it



**Table 1. Sound signatures (in decibels) of suppressor tests on Beretta 950 BS pistols chambered for the .22 Short and .25 ACP cartridges.**

Gun	Suppressor	CCI HV .22 Shorts	CCI SV .22 Shorts	Federal .25 ACP FMJ	Temperature, °F (°C)
Beretta Minx	None	151	146	—	72(22)
Beretta Minx	Ciener SBER	133	124	—	72(22)
Beretta Minx	None	154	—	—	90(32)
Beretta Minx	Cobray BP22	120	—	—	90(32)
Beretta Jetfire	None	—	—	156	72(22)
Beretta Jetfire	Cobray BP25	—	—	132	72(22)

**Table 2. Net sound reductions (in decibels) of suppressor tests on Beretta 950 BS pistols chambered for the .22 Short and .25 ACP cartridges.**

Gun	Suppressor	CCI HV .22 Shorts	CCI SV .22 Shorts	Federal .25 ACP FMJ	Temperature, °F (°C)
Beretta Minx	Ciener SBER	18	22	—	72 (22)
Beretta Minx	Cobray BP22	34	—	—	90 (32)
Beretta Jetfire	Cobray BP25	—	—	24	72 (22)

**Table 3. Muzzle velocities of suppressed and unsuppressed Beretta Minx pistols, expressed as feet per second (and meters per second).**

Gun	Suppressor	CCI HV .22 Shorts	CCI SV .22 Shorts	Temperature, °F (°C)	Speed of sound, fps (mps)
Beretta Minx	None	1,010 (308)	738 (225)	72 (22)	1,131 (345)
Beretta Minx	Ciener SBER	1,015 (309)	764 (233)	72 (22)	1,131 (345)
Beretta Minx	None	1,029 (314)	—	90 (32)	1,150 (350)
Beretta Minx	Cobray BP22	850 (259)	—	90 (32)	1,150 (350)

clears the frame's guide lugs. Lift the slide free. Further disassembly of the pistol is neither necessary nor recommended. Disassembly of the suppressor will void its warranty.

Begin reassembly of the Minx by placing the rear of the slide over the frame just in front of the guide lugs while keeping the front of the slide elevated. Carefully pull the slide rail over the frame's guide lugs while engaging the two legs of the main operating spring in the slide recesses. It may be necessary to gently squeeze the legs of the spring together toward the axis of the bore until they slip into the slide recesses. Pull back slightly against the spring tension and ease the slide down until it engages the frame. Rotate the rear of the barrel downward until it locks into place. Pull the slide fully rearward and release to confirm proper reassembly. Lower the hammer and insert the magazine to complete reassembly.

Cleaning is not quite so straightforward, since ammonia eats aluminum and the frame of the Beretta 950 BS is made from aluminum. Therefore, solvents containing ammonia should be avoided. This rules out

common gun-cleaning solvents such as Hoppe's No. 9, Sweets, and GI bore cleaner. Excellent solvents that are aluminum-friendly include Varsol, Kroil, Gun Scrubber, and carburetor cleaners (similar to Gun Scrubber but vastly cheaper). The suppressed Minx should be cleaned every 500 rounds or every six months, whichever comes first. If the suppressed pistol is to be stored without immediate cleaning after being fired, then the system should be stored with the barrel tipped upward from the frame, ideally with the muzzle of the suppressor down. This will facilitate the evaporation of residual water vapor (a natural by-product of powder combustion) that has condensed in the suppressor.

To clean the suppressed Beretta, begin by field stripping the pistol as described. Using a solvent tank made from PVC pipe, stand the suppressor and frame muzzle down in just enough solvent to cover the suppressor and barrel. Let stand for several days. Drain. Clean the pistol. Blow dry the pistol and suppressor with compressed air if available. Briefly immerse the suppressor in Kroil (which is actually a light penetrating oil) or Break Free and drain. A

light coating of a nonstick material like Break Free will tend to retard future carbon build-up in the suppressor. Lubricate the pistol and wipe off any excess. assemble.

Following this maintenance regimen will enable Ciener's suppressed Minx to perform over a vastly longer service life than its main contemporary competitor, the Minx with Cobray suppressor and special-length barrel. Performance of the Cobray system provides an interesting benchmark for comparing Ciener's SBER system. The amount of sound reduction produced by these competing designs will prove to be only one of several important performance criteria, however.

## TESTING PROCEDURES

An unsuppressed Minx was compared to Beretta 950 BS pistols equipped with Ciener SBER and Cobray BP22 suppressors using CCI high velocity and standard velocity shorts. An unsuppressed Jetfire was also compared to a Beretta 950 BS pistol equipped with a Cobray BP25 suppressor using Federal 50 grain .25 ACP FMJ rounds.

Sound signatures were measured using a Brüel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on weighting and peak hold) with a B&K Type 4136 1/4-inch condenser microphone, placed 1.00 meter away from the front of the suppressor or muzzle according to U.S. Army testing procedures specified in MIL-STD-1474C.

The ambient temperature during each test is always given. Velocities were measured in feet per second using a P.A.C.T. MKIII timer/chronograph with MKV sky-screens set 24.0 inches apart and the start screen 8.0 feet from the muzzle (P.A.C.T., Dept. MGN, P.O. Box 531525, Grand Prairie, TX 75053, 214-641-0049). At least 10 rounds were fired to obtain an average sound signature or muzzle velocity.

## PERFORMANCE

The sound signatures obtained during this testing provide an objective measure of suppressor performance, and these data appear in Table 1. Net sound reductions appear in Table 2, and .22 velocity data appear in Table 3.

Both the Ciener and Cobray suppressors dropped a pistol's sound signature well below the pain threshold (141 dB) and the European risk limit for hearing protection (140 dB). The .22 caliber Cobray suppressor was dramatically quieter than the Ciener suppressor, but that's only part of



the performance equation. Constructed of donut-shaped washers of compressed copper screen separated by Neoprene wipes, Cobray's wipes dramatically lowered projectile velocity by 17 percent. The lack of wipes and longer barrel enabled the Ciener system to actually deliver up to 4 percent more velocity than a standard unsuppressed Minx (see Table 3).

The design of the Cobray BP22 suppressor displayed two additional shortcomings.

The wipes, lack of useable sights, and very poor quality of the special-length Cobray barrel severely affected accuracy, which was appalling beyond an armspan or two. The .22 and .25 caliber Cobray cans did come with a front sight, which consisted of a plastic disk with a crude front sight post. The disk attached to the suppressor's front end cap with two small round-head machine screws. Slots in the disk permitted rotating the disk to align the sight with the top of the pistol. While this arrangement provided a reference point for aiming, the arrangement had two liabilities. There was no rear sight to provide a complete sight picture. And the plastic sight was so fragile that neither the sight on the BP22 nor the sight on the BP25 survived its first trip into the field.

A more serious liability of the Cobray design appeared when the mesh donuts in the BP22 suppressor began to unravel after about 90 rounds, which further degraded accuracy. Soon the bore became too obstructed to shoot safely, precluding sound testing with standard velocity ammunition. Thus the Cobray BP22 proved to have a duty life approximately equivalent to about 15 magazines-worth of shooting. Since legislation passed in 1986 precludes the sale of suppressor parts to individuals, replacement wipes and mesh donuts are no longer available commercially. Considering the cost of the suppressor, special barrel and \$200 transfer tax required for ownership by a qualified individual, the net cost of operating the BP22 suppressor worked out to more than \$3 per shot over the Cobray's service life. Clearly, that's not very cost effective.

When using standard velocity fodder in the Ciener-suppressed Minx, the system was as quiet as a Marlin 780 bolt-action rifle with Ciener integral suppressor using HV Long Rifle ammunition. This level of performance is particularly impressive since the unsuppressed Beretta pistol is at least 10 dB louder than the unsuppressed

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### AR-15/M16

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Barrel extension, new	\$20.
Buffer, G.I.	\$17.
Buttstock, A-2 (w/spacer)	\$45.
Carrier assembly	\$130.
Carrier assembly, AR-15, Colt	\$150.
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Trigger, new	\$25.

### M79

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Firing pin, new	\$8.
Forearm bracket, new	\$40.
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Safety Actuator	\$25.
Safety spring, new	\$7.
Trigger	\$50.

### M60

Assault pack, 100-rd	\$22.
Bolt, complete, new	\$95.
Op-rod, new standard	\$60.
Sear, new	\$12.
Buttstock, M60 E-3 new	\$90.
Feed lever, M60 E-3 new	\$85.
Forearm, M60 E-3 (heat shield) new	\$75.
Top cover, M60 E-3, new, stripped	\$150.

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Gas cylinder, exc.	\$45.
Hammer, IHC	\$35.
Safety, G.I., S.A.	\$15.
Safety, WRA	\$30.
Trigger housing, complete, S.A.	\$75.
Trigger, winter	\$7.

### .30 B.M.G.

Barrel extension	\$40.
Bolt, .30-06 or .308, new, stripped	\$80.
Driving spring	\$10.
Extractor, new	\$40.
Flash Hider, M7, for 1919 A-6, internally chromed, .308	\$95.
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AR-15, 30-rd., new	\$12.
AR-15, 30-rd., used	\$8.
AR-15 Colt, 20-rd., used	\$10.
AR-15 Colt 7.62x39 20-rd, new	\$35.
B.A.R. 20-rd., new	\$20.
H&K 91, 20-rd. steel, used	\$40.
H&K 91, new, 20-rd. alum.	\$40.
H&K 93 .223, 40-rd., new	\$50.
M1 Carbine, 15-rd. G.I., new	\$8.
M1 Carbine, 30-rd., G.I.	\$45.
M3 Grease Gun 32-rd., new	\$15.
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Sten, 9mm, 30-rd.	\$9.
Stoner 63 (Cadillac Gage) new	\$85.
S&W 76, MK 760, 36-rds.	\$80.
Thompson, 30-rd., G.I., new	\$12.
Thompson, 20-rd., G.I., used	\$20.

### M14

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Front sight, N.M.	\$12.
Gas cylinder, new	\$27.
Front Band	\$10.
Hammer, H&R	\$25.
Hand guard, Walnut, new	\$35.
Rear sight aperture, N.M.	\$28.
Rear sight, complete	\$35.
Rear sight, complete H&R or WRA	\$45.
Receiver back ends	\$35.
Trigger housing complete, H&R, S.A. or Winchester	\$125.

### M1 Carbine

Bolt, round or flat, comp.	\$60.
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Push safety, unmarked	\$12.
Push safety "EW," NS, EBP	\$28.
Selector, G.I., new	\$25.
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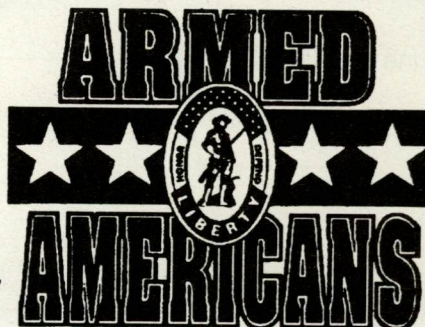
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Two variants of the Beretta 950 BS pistol with Cobray suppressors: the .22 Short Minx and the .25 ACP Jetfire.

Marlin rifle. In fact, the unsuppressed Minx is about as loud as a 20 gauge shotgun (153 dB).

When shooting high velocity ammo through the Ciener-suppressed Minx, the sound signature was just a bit louder than firing a .22 CB in a rifle. Unfortunately, high velocity ammunition produced a ballistic crack (sonic boom), making the Ciener SBER system sound subjectively like a naked (i.e., unsuppressed) firearm.

Based on the velocity data and calculated speeds of sound in Table 3, this phenomenon is unexpected.

The traditional engineering formula used to calculate the speed of sound is based entirely on the ambient temperature as the only variable. The non-metric formula says that the speed of sound (expressed in fps) is equal to the product obtained by multiplying a constant (49.06) times the square root of the sum obtained by adding the tem-

perature (in degrees Fahrenheit) plus 459. It has long been my contention that this formula, which is widely used in engineering textbooks and physics handbooks, represents an oversimplification of the real cosmic verities.

The speed of sound is directly proportional to the density of the medium in which the sound waves are traveling. Thus, sound travels faster in water than air. And the speed of sound is faster in steel than in water. I have long argued that other factors which influence the density of the air (such as humidity, barometric pressure and altitude) must also affect the speed of sound. Over the years I have amassed considerable empirical evidence that seemed to support my hypothesis, since I've routinely witnessed a ballistic crack at velocities that the formula asserts should be subsonic velocities. And I've observed no ballistic crack where the formula says there should be one. It appears that the true speed of sound, as determined by the actual presence of a ballistic crack, can vary by as much as 30 fps (9 mps) from the calculated value. The formula seems to fall short most often on extremely humid or extremely dry days.

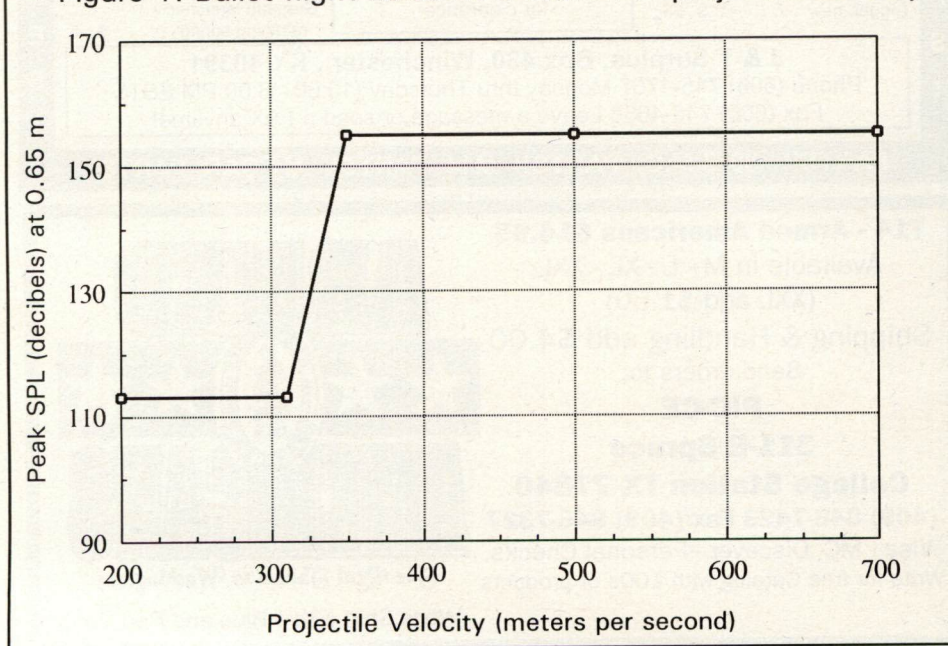
Contrary to my early thoughts on this matter, Dr. Dater has produced enough data to demonstrate to my satisfaction that only temperature significantly affects the speed of sound in the atmosphere at altitudes below 3 kilometers. Detailed research by Steve Baughman does suggest, however, that humidity can have a small effect (up to about 5 fps at 68° F or 1.5 mps at 20° C). I'm at a loss how to explain the remaining variability between the calculated and observed speeds of sound that I have experienced. Most of the time, however, the formula does provide an excellent prediction as to whether or not transonic loads will generate a ballistic crack.

This is an important issue because bullet flight noise is a major factor in the perceived stealthiness of a suppressed gunshot. Bullet flight noise is also a significant factor in the risk experienced by shooters and by-standers when sport shooting suppressed firearms with ammunition producing projectile velocities that exceed the speed of sound.

### BULLET FLIGHT NOISE

While muzzle cans and integral suppressors all reduce the muzzle signature of a firearm, there is one aspect of a weapon's overall sound signature that remains completely unaffected: bullet flight noise. Fig-

Figure 1. Bullet flight noise as a function of projectile velocity.





ure 1 shows a generalized synthesis of recent Finnish research on bullet flight noise measured from a distance of 2.1 feet (0.65 meters) from the bullet flight path. The graph, which is adapted with permission from a report published by Drs. Illka Kytälä and Rauno Pääkkönen in 1996 (entitled "Aseiden vaimentimet ja ampuumaratarakenteet"), suggests several things.

Subsonic projectiles produce flight noise well below the European risk limit for hearing loss of 140 decibels. Bullet flight noise increases dramatically with velocity in the transonic range. And supersonic projectiles generate bullet flight noise that exceeds the 140 dB risk limit by a considerable margin.

The only place where I part company with the conclusions from the broad spectrum of impressive interdisciplinary research conducted on suppressors in Finland in the 1990s involves the health implications of bullet flight noise.

Kytälä and Pääkkönen (1996) assert that "ballistic noise [i.e., bullet flight noise] does not effect the shooter's exposure [to dangerous sound pressure levels] in open range [the italics are mine]. Ballistic noise concentrates in the higher frequencies and thus attenuates, when propagating, faster than the muzzle blast."

Yet in my experience using suppressed firearms, the bullet flight noise generated by supersonic projectiles can sometimes be painful to the shooter. While environmental surfaces such as trees or walls can reflect painful shock waves from the wakes of supersonic projectiles, I've also experienced this effect when shooting in the open. Since the pain threshold of 141 dB exceeds the European risk limit of 140 dB, plugs or muffs should ideally be worn when shooting supersonic projectiles from suppressed firearms for optimum hearing protection, in my opinion.

My argument is directed toward sport shooters and armed professionals during training exercises. Being able to hear environmental noises, including the movement of potential adversaries, argues against the use of passive hearing protection devices when using suppressed weapons with supersonic ammunition in the tactical environment.

## CONCLUSIONS

While the Ciener SBER suppressor is a dated design, the Ciener-suppressed Beretta Minx is a particularly handsome firearm. But handsome is as handsome

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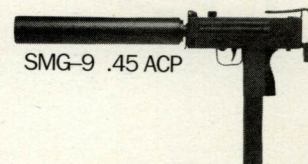


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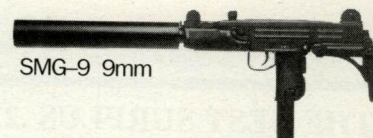
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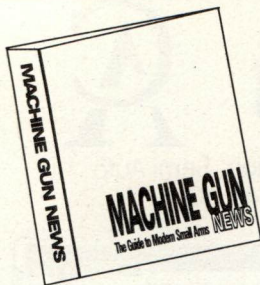
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does. The SBER system delivers enough sound suppression with high velocity and standard velocity ammunition to protect the hearing of the shooter and bystanders from muzzle blast about as well as wearing shooting earmuffs of average design. The ballistic crack generated by high velocity ammunition, however, argues against using HV ammo at social occasions where everyone is not wearing hearing protectors.

A big plus is that the SBER suppressor is a dry can. No messy liquids are used to enhance the suppressor's performance, making it a lot cleaner and a lot more fun to shoot than the recent crop of high-performance wet cans now popular in the marketplace.

While high velocity ammo in the Ciener-suppressed Minx produces a ballistic crack that subjectively seems as loud as a naked weapon, standard velocity ammo is as quiet as an integrally suppressed Marlin 780 rifle from the same manufacturer. The extra length barrel, excellent craftsmanship of the suppressor and special-length barrel, and eminently useable sights on the suppressor tube give the little Minx an astonishing ability to deliver excellent accuracy at ranges beyond the normal operating envelope of pocket pistols.

After nine years of service, the Beretta 950 BS with Ciener SBER suppressor evaluated for this article continues to delight everyone who uses it—as long as they stick to standard velocity ammunition. That's a small price to pay for such compelling performance. Nonshooters and casual shooters seem to especially enjoy their experience with the Ciener-suppressed Beretta, making the SBER system a nice addition to picnics and family gatherings. While Ciener no longer makes the SBER system, this accurate and enjoyable performer can sometimes be found for sale when a former owner has been seduced by high-performance compact suppressors like the Backdraft from AWC Systems Technology and the LDES from Gemtech. We'll evaluate the amazing new LDES-2, which measures a mere 7/8 by 3 inches, in a forthcoming issue of *Machine Gun News*.

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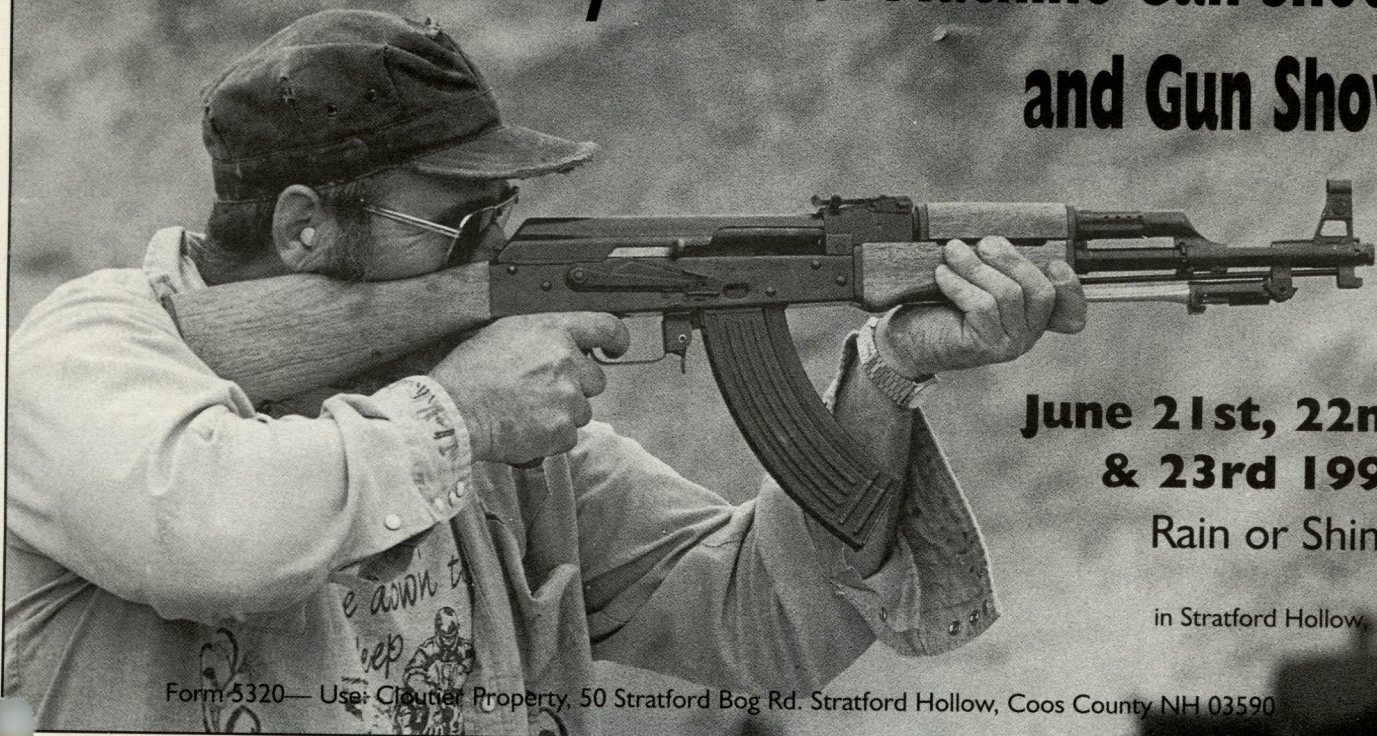
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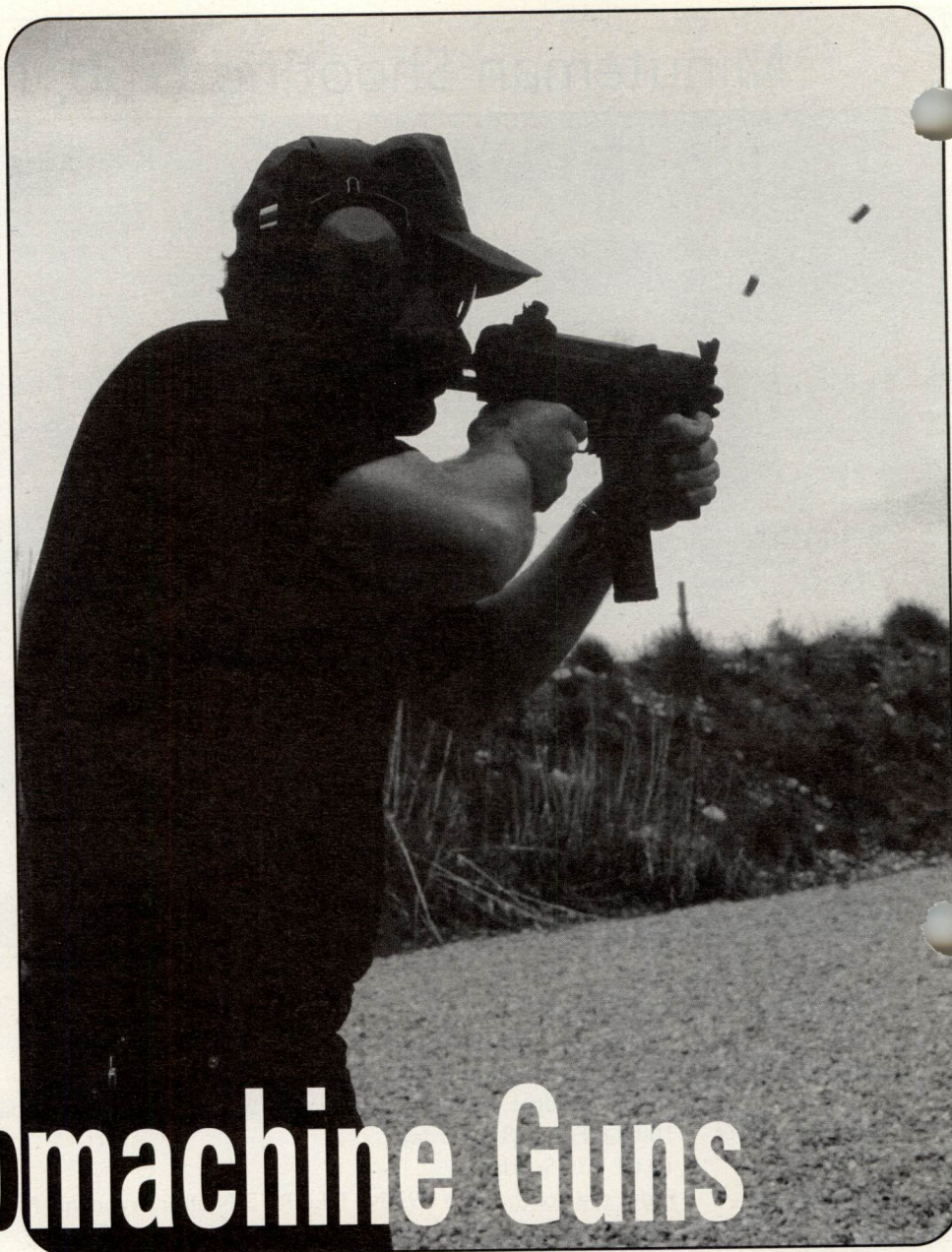
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# FAMAE'S S.A.F. Submachine Guns

**by Chris A. Choat**

**M**aybe "new" is a misnomer as these guns have been in production for several years, being introduced in the mid-80's. But when I heard of these guns they were new to me and also, as I have found out, new to the American shooting public.

The guns are the S.A.F. series of submachine guns manufactured by FAMAE of Santiago, Chile. FAMAE has been in existence since 1811 and is primarily a defense-related company. Small arms are only a

small portion of the defense-related products that they produce. Other items include G.P.S. receivers, fire control and guidance systems, explosives and munitions, rockets, missiles, armored personnel carriers, 6 x 6 and 8 x 8 tank hunters, tanks, mortars and even bulletproof vests. As you can see, this company is not new to the arms business. As well as the S.A.F. submachine guns, they also produce, under license, the SIG SG 540 series of assault rifles and a copy of the Czech CZ75 pistol which they call the FN75/FN750.

Since the company has produced the



SIG assault rifles for many years, it is not a surprise that they borrowed heavily from that technology in producing the S.A.F. guns. The S.A.F. guns use many of the same construction techniques as well as many of the same parts as the SIG guns. But in the looks department, they strongly resemble the H&K MP5 series of submachine guns. So strong is the resemblance that at a distance you would think that they are MP5's.

About a year ago I was invited to Salt Lake City, Utah to test and evaluate the "new" guns. The reason for the long delay in writing this article is that since that time, the company importing these guns has gone through several changes as well as names. Now the company has settled on a name and has strong backing in the new partners, and it is time to tell about the guns.

There are three variations of the S.A.F. submachine guns. The first is their standard full-size gun designated simply the S.A.F. The second is an integrally-suppressed version called the S1 Silencer S.A.F. and, last but not least, a very compact version called the—you guessed it—MINI-S.A.F. All three versions resemble copies of the same three versions of the MP5 series but with some very innovative features not found on the H&K guns.

All three versions use a modular construction and most parts will interchange between guns. The guns upper and lower receivers are made from stamped sheet steel. Furniture on the guns is a black synthetic with the overall finish being a black phosphate that almost appears to have a paint overcoat. The guns fire from a closed bolt which is unlocked and strictly a blow-back instead of the roller-delayed blow-back as is used in their H&K brothers.

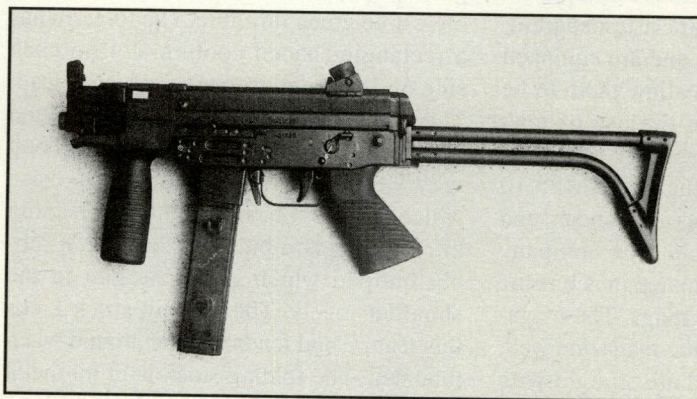
As for the innovative features, the S.A.F. guns all come with 4-position burst fire trigger packs as standard equipment. The four positions are safe, semi, burst and full-auto. All the guns that I had tested were equipped with three-shot bursts, but I was informed that burst packs can be tailored to customer requirements in 2-, 3-, or 4-shot variants. The S.A.F. guns are all equipped with a last-shot, bolt hold-open device which does speed reloading somewhat. The hold-open is magazine-follow-activated. A small button on the left side of the receiver, above and to the rear of the mag well, drops the bolt after a fresh magazine is inserted.

Another added feature is a folding trig-

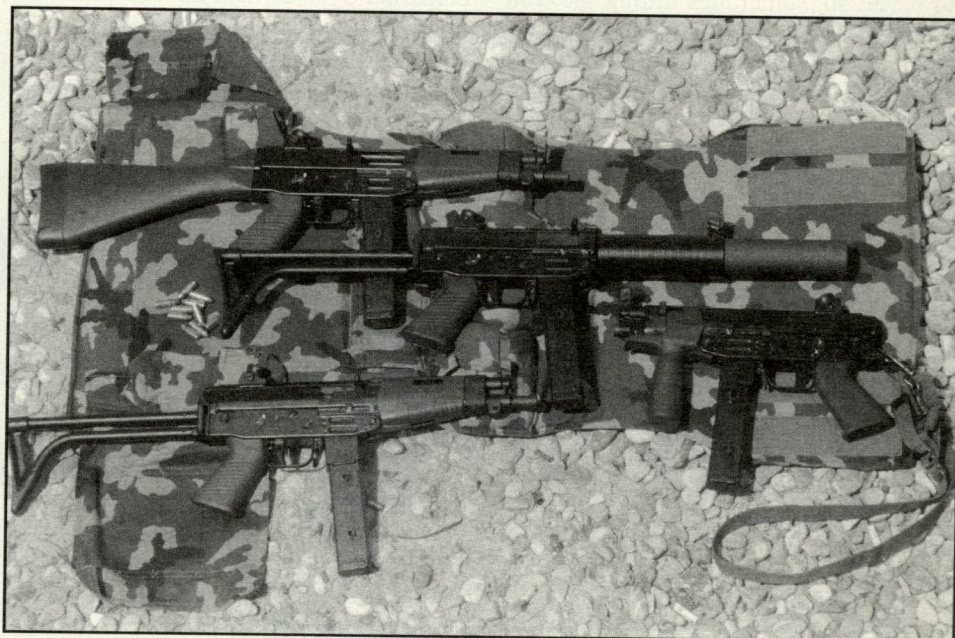
ger guard which allows easier access to the trigger when the user is wearing heavy gloves. The gun's selector is located in the same place as it is on the MP5. The guns have selector markings on both sides of the receiver but lack a lever on the right for left-handed shooters. Markings on the test guns consists of a white "S" for safe, a red "1," "3," and "30" for the semi, burst, and full-auto positions respectively. Probably, what I think is the most useful feature concerns the guns stocks. There are three types of stocks available for the S.A.F. guns. These include a nonfolding solid buttstock, a right-side folding skeleton stock and a receiver buttcap. The great thing about the stocks is that all three stocks will fit any of the gun's variants. Being able to interchange stocks adds great versatility to the guns. This author's favorite was the S.A.F. Mini equipped with the side-folding stock making a PDW type gun. Both the standard and folding stocks have sling attachment points on their left sides, and the

buttcap is equipped with a sling loop at its rear. This allows the Mini to be used with a close-quarter, combat-type, over-the-shoulder sling which FAMAE also makes. Both standard and mini guns' receivers have left-side mounted, front sling attachments close to the front sight post.

Sights on the guns very closely resemble H&K type sights with a rotary drum type rear and a hooded post up front. The rear sight drum has 100- and 150-meter apertures as well as a 50-meter notch. It is adjustable for windage only. The S.A.F. front sight hood is open at the top. The front sight on the suppressed version is mounted to a shroud which covers the suppressor tube. The gun's upper receiver is also built to accept a quick-detach, scope mount that is available as an option. The scope mount reminds me of the AR-18 type mount with a spring-loaded plunger which engages a hole in the rear sight base. The front sight is adjustable for both windage and elevation. The open sights on the guns

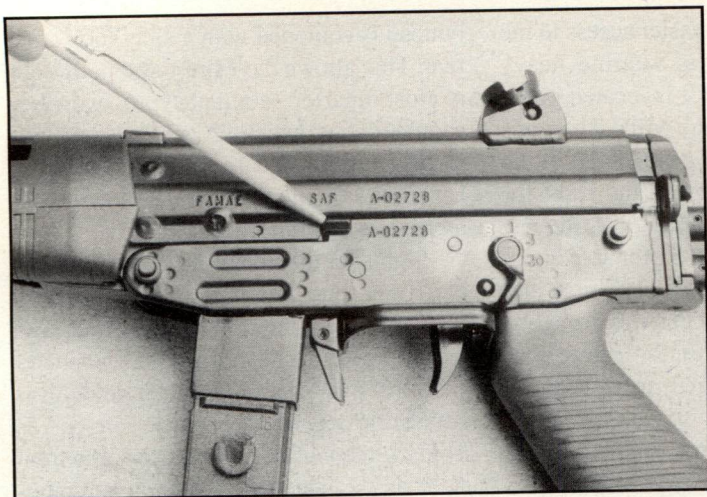


In the author's opinion, the only way to properly employ the Mini version is to use the gun equipped with the folding stock as shown in this photo. The stock transforms the gun into a very handy and accurate little subgun.

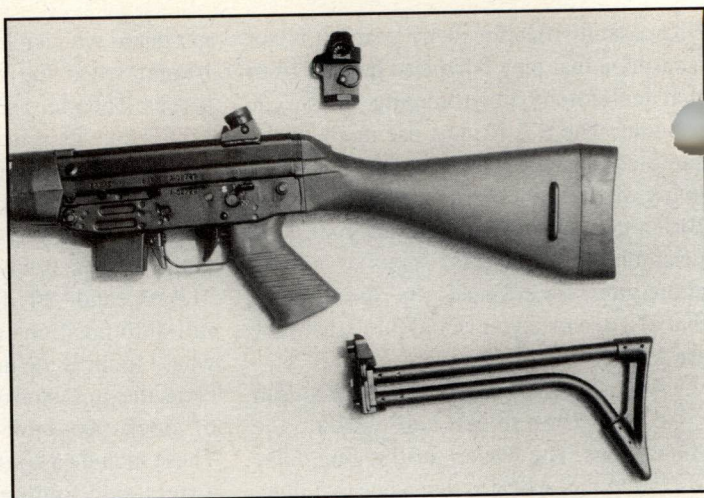


Three versions of the S.A.F. are available: the standard S.A.F. (top), the suppressed S1 S.A.F. (middle) and the Mini S.A.F. (bottom right). The bottom left gun is the standard model equipped with the side-folding stock.





One nice feature of the S.A.F. submachine gun is a last-shot, bolt hold-open device. It is magazine-follower-activated and is released by the lever shown with the pointer. Selector markings can be seen here as well as the folding trigger guard (shown in the folded position).



An innovative feature of the guns is the interchangeable stocks. A buttcap, full stock and a folding stock will interchange between any of the guns. Installation and removal is done by removing one machine head bolt.

appear course but produce good accuracy during testing.

The guns' designers seem to have borrowed from H&K in the area of magazines, also. The S.A.F. magazines are straight instead of curved. They are a transparent, smoke-colored synthetic and are equipped with locking tabs which allow them to be locked together without the use of mag clamps. The magazines actually look a lot like the magazines for the H&K MP5/10 and 40. Thirty-round mags are standard and 20-rounders are available. The company literature shows metal magazines but the test guns all had plastic mags. The magazines lock positively in the magazine well, but the sides of the well are straight with no bevel; so, sometimes hitting the well with a fresh magazine without looking is trying. The magazine release is located directly behind the mag well and is an AK

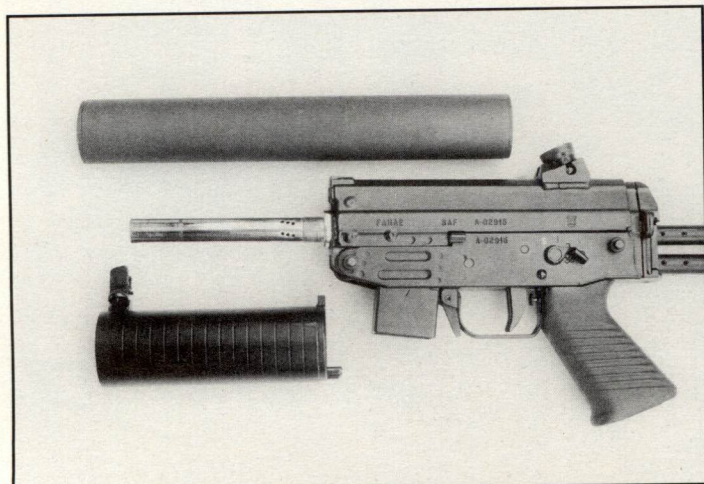
type flapper that is pushed forward to release the mag.

As I said before, the furniture on the gun is made from a synthetic plastic. The guns can be ordered with either black or olive drab green furniture. The forearm has a rectangle-shaped cooling slot on each side and vertical grooves for a sure grip. The pistol grip has horizontal grooves and is ergonomically designed to fit the hand very well. It has a trap door in its base which reveals a basic field type cleaning kit. The standard buttstock has a thin rubber buttpad which locks the gun to the shoulder nicely. The folding stock lacks this feature and tends to slide around when mounted. The folding stock is of all metal construction and when attached, folds to the right side of the gun. The guns can be fired and reloaded easily even with the stock folded. The Mini version features a

vertical foregrip which closely resembles the one on the H&K MP5K.

The S.A.F. guns that were tested all had barrels that were sans threads for muzzle attachments such as grenade launchers, flash hiders or suppressors. The guns can be threaded as a special option when ordered. FAMAE makes their own suppressors which mount to the muzzle using an adapter which eliminates the need for threads. These were not available for testing, so I don't know exactly how they attach. The barrels are six-groove rifled with a twist rate of one in 9.84 inches. Both barrel and chamber are chrome plated for long life. The test guns were all chambered in 9 mm, but company officials informed me that a .40 S&W version is in the works.

The S.A.F. guns are very well made and extremely robust. Empty weight of the standard gun is about 6.5 pounds; it feels good

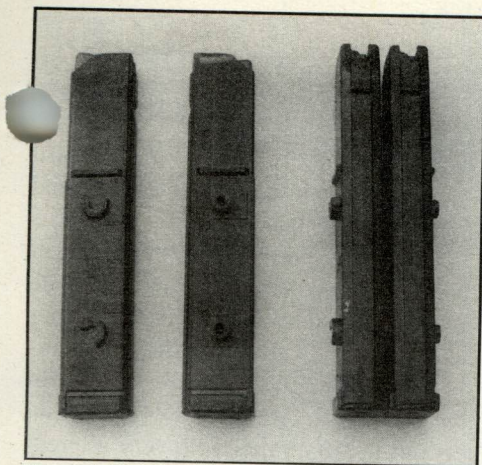


This photo shows the suppressor unit removed from the barreled receiver. The barrel ports can also be seen. The unit was very quiet but no velocity readings could be obtained.



The Mini S.A.F. is strictly a close-quarter weapon when used with the supplied buttstock sling.





The S.A.F. magazines are of the double column, single feed design and are made from a transparent, smoke-colored synthetic. Both 20- and 30-round mags are available, and they all feature locking tabs to allow them to be coupled together without the use of mag clamps.

and points very well. The suppressed version is slightly muzzle heavy but not to the point that it feels uncomfortable. The Mini is a neat gun when used with either one of the shoulder stocks. Using it with the buttcap in place is best left to someone with extensive training with the gun. The shoulder sling is hard to use and should only be employed in very close quarters or for ultimate concealment purposes.

In testing we used a wide variety of ammunition which included both ball and hollow point types in several different bullet weights. The first gun used in the test was the standard version. This gun ran flawlessly, digesting everything we fed it.

The second gun we tried was the suppressed version. This gun incorporated an integral suppressor with a ported barrel. I was very impressed with the sound reduction of this unit. The gun was very quiet. Basically, the noise was reduced to bolt noise with hardly any muzzle report. No chronograph was available to test the velocities produced by the suppressed gun, but I assume they were in the ballpark of the H&K MP5SD. My preference here would be the standard gun with a good muzzle attachment suppressor. The only problem encountered with any of the guns surfaced with this version. The suppressed gun proved to be very ammo sensitive. It simply would not reliably feed and function with hollow point ammo. Several brands were tried with the same results. It may have just been this particular gun, but this problem needs to be addressed. The main market for this type of gun will be the military and police market and the use of hol-

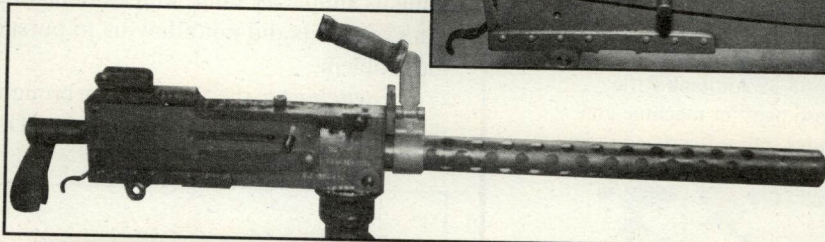
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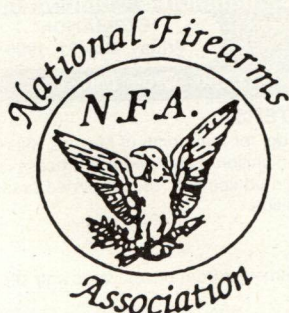
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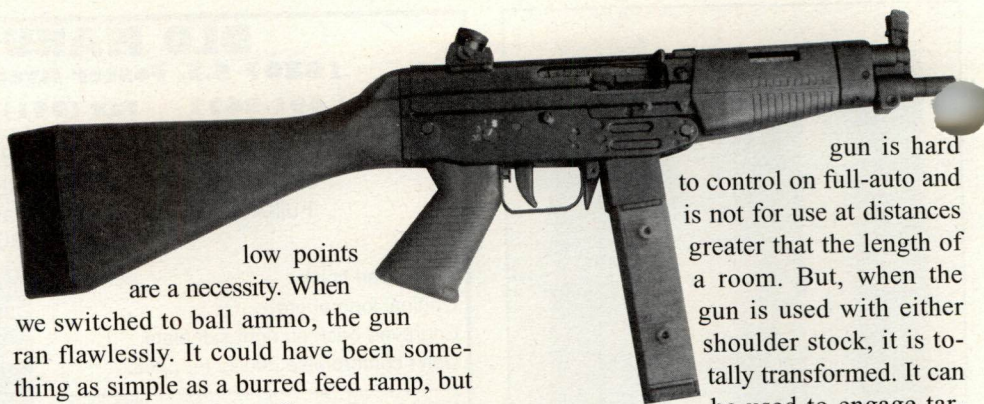


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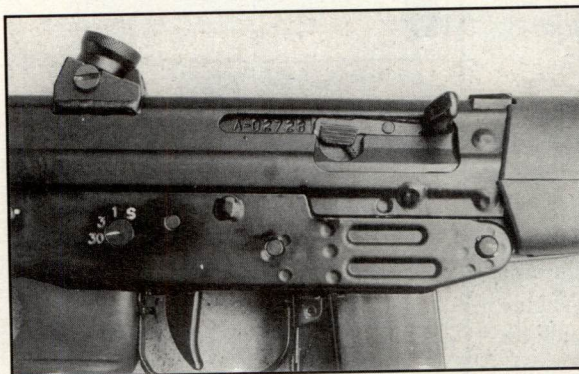
low points are a necessity. When we switched to ball ammo, the gun ran flawlessly. It could have been something as simple as a burred feed ramp, but time restraints did not allow us to pursue the problem.

Switching to the Mini version brought the usual results from this type of gun. The

gun is hard to control on full-auto and is not for use at distances greater than the length of a room. But, when the gun is used with either shoulder stock, it is totally transformed. It can be used to engage tar-

gets out to fifty yards with very impressive accuracy. The short barrel length (4.6 inches) proved no deterrent to good accuracy. In fact, this gun, equipped with the folding stock, proved to be my favorite of the bunch.

The cyclic rate of the guns proved to be another bone of contention. As the guns are blow-back-operated, the cyclic rates are way too high for this type of gun. Cyclic rates of all the guns were timed with my PACT Mark III timer with rate of fire option installed. Surprisingly, the MINI S.A.F. produced the *slowest* rate of fire. Using Norinco 115 grain ball, the Mini was clocked at 1165 rounds per minute. The



This photo shows the right side of the gun. The small lever behind the charging handle is used to remove it prior to removing the bolt. Both sides of the receiver are marked with fire control indicators, but the selector is not ambidextrous.



The S.A.F. takes down quickly without the need for tools. The gun is well designed and very robust. Parts will interchange between guns without problems showing good quality control.





The resemblance of the Mini S.A.F. to the MP5K (SP-89) is very obvious in this photo.

same ammo in the standard gun ran 1259 rpm. When the Norinco was run through the suppressed gun, the rate jumped to 1317 rpm! Subsonic ammo produced a rate of 1293 rpm. With these high rates of fire, it is almost impossible to fire less than three rounds using the burst setting. Because of this, I could never determine if the gun's burst mechanisms were the resetting type or if when you fire only two rounds, the next burst would only produce one round.

Overall I like the S.A.F. guns. They are very well made, produce good accuracy, and have a variety of added features that are not found on similar submachine guns. One would have to assume that FAMAE has tried to copy the MP5 in at least form if not function. The guns do have more employable features than the H&K guns and are supposed to be a less expensive alternative to an MP5. Will they fill this role? Only time will tell. They have a very big obstacle ahead of them trying to beat out the time-proven H&K MP5.

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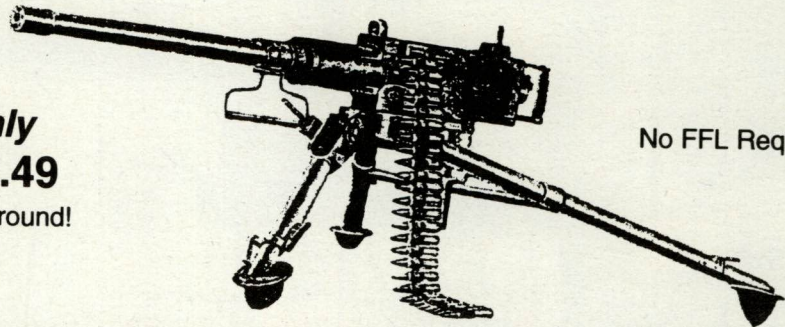
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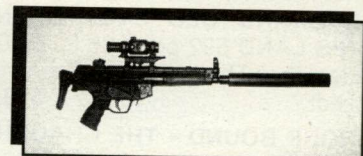
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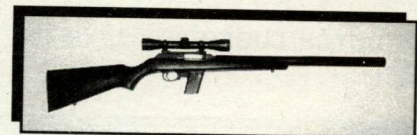
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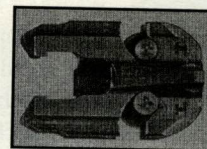
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## MG-42 BOLT HEADS

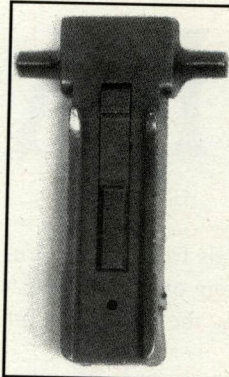


This is the part that breaks on your MG-42 bolt assembly. The other problem is that after about 10,000 rounds, the firing pin hole enlarges. These are rare as can be, and we have a small quantity left.

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**I**n the month following D-Day, the Tank Destroyer Board at Camp Hood, Texas authorized Project 236: the testing of the Lazarus Gun Mount.

The theory was that more hits on target would result from pointing a .50 cal. light machine gun through a shoulder-held rifle similar to using a shotgun against birds. To test this theory, a radical new gun mount, called the "Lazarus" was developed. A .50 cal. machine gun was mounted on a pedestal and linked to a .30 cal. M1903 sniper's rifle via a pantagraph linkage. The rifle is equipped with a Weaver 1 power telescopic sight.

The operator, in sighting the rifle, transfers corresponding changes in elevation and direction to the machine gun, firing the machine gun through a solenoid actuated by the trigger of the rifle. A 12 volt storage battery was used. An Edge-water adapter prevented shock from firing, affecting the rifle and sight, and permitted the gunner to "hold" effectively.

This new system was tested extensively against both aerial and ground targets by both tyro and experienced machine gunners. The ammunition used in all firing in tests was "combat loaded," i.e., one tracer, two armor-piercing, and two incendiary bullets.

# PROJECT 236, THE LAZARUS TEST

Five test gunners fired 1300 rounds from the Lazarus system at hydrogen-filled 36" balloons at ranges of 500 to 600 yards. An average of one balloon was shot down per 800 rounds. In comparison, using the same course, employing the ring mount on an M20 Armored Car, one balloon per 200 rounds was hit.

Gunners reported that smoke and hot gasses from the .50 cal. gun obscured their view of the target through the sight much of the time. Hits made with the Lazarus system were usually obtained with the first part of a burst. Gunners reported that after four rounds, their view of the target was too indistinct to justify further automatic fire.

Against fast moving radio controlled planes at 500 to 1800 yards, 600 rounds fired produced not one hit. Again gunners reported difficulty seeing their target through the scope sight because of blast obscuration.

An expert gunner fired 150 rounds using tracer control and failed to gain a single hit with the experimental system. It was decided that training gunners with the new Lazarus system, firing by the "shotgun" system, would take twice as long as existing Army training systems. One man had to be employed at all times to guide the ammo belts and maintain proper alignment.

At the conclusion of tests, it was decided that the Lazarus system was superior for aiming at ground or slow moving aerial targets where bursts were limited to four or less, since the first shot was by direct aim through the rifle sight pointed as a shotgun. In comparison, using tracer rounds, the gunner viewing tracer and target with his line of sighting outside the blast area became more effective as the long lead was narrowed.

Finally, the Lazarus system was found unsuitable for use as a combat weapon or for expediting the training of ground or aerial machine gunners.

MGN

by JIM PHILLIPS

Soldier demonstrates the  
However, back blast and  
decided that tracers were





zarus system which can engage targets only three yards away.  
ses prevented accurate sighting after only five rounds, so it was  
ter for targeting. (Frye Photo)

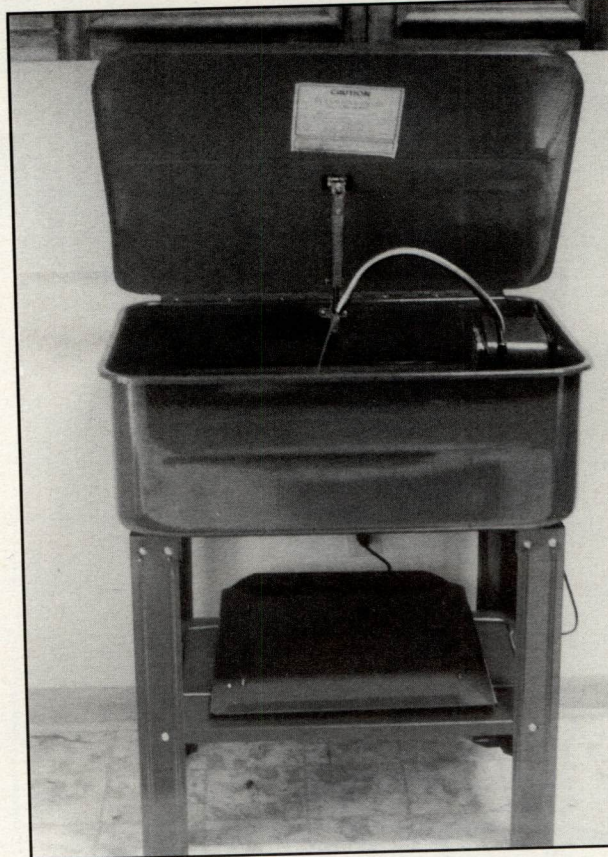


ST



# Ending the Gun Cleaning Blues

## Easy Gun *and* Suppressor Cleaning



### *A Lazy Man's Way*

**T**he only unpleasant aspect of entering the NFA matches at Knob Creek is cleaning the dirty guns after a ten-hour drive home. The time required for that chore can be greatly reduced by the proper selection of gun cleaning aids.

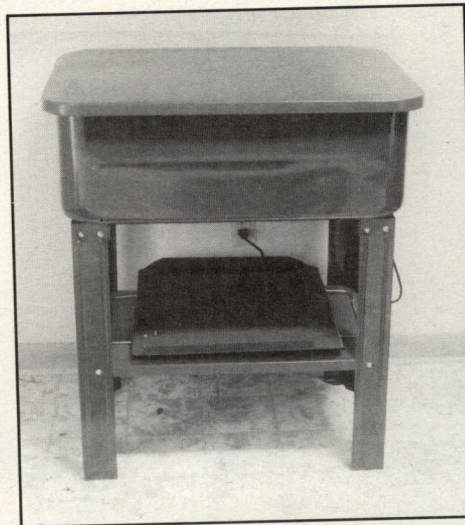
By using an automotive parts washer, the accumulated fouling can be removed without totally disassembling the guns. That is a great time saver for any gun. For M16s, it is a necessity. Their receivers are made of aluminum. Continual removal and reinstallation of the steel trigger, hammer and auto sear pins can enlarge the holes in the softer receiver.

A parts washer has two parts. The largest is a tank with a tight fitting lid. There is also an electric pump with a flexible metal hose and nozzle.

After a match, remove the optical sights and stock. Disassemble the guns into their major components: receiver, bolt and bar-

rel. Place them in the parts washer. Close the lid and let them soak over night.

Many types of cleaning fluids are available. One of the best is Kroil®. It dis-



An automotive parts washer works well for soaking and cleaning dirty guns.

solves much of the fouling and floats it away. Most residual fouling can be flushed out with the spray from the nozzle. Remove any stubborn fouling from crevasses with an old toothbrush.

If it is not convenient to remove the stock, the stock may be held above the Kroil®. Let the spray flush out the receiver.

Many excellent cleaning fluids remove not only the fouling but all of the rust protecting oil as well. Kroil® does not. Kroil® is a penetrating oil and rust inhibitor as well as a cleaner. After cleaning the gun, a thin film of Kroil® coats the parts. It will protect them from rust.

Kroil® does remove the lubricating oil from the gun. Kroil® is not intended for use as a lubricant. It is too thin. After cleaning the gun, relubricate the moving parts as specified in the gun's user manual.

Use dry patches and a cleaning rod to remove excess Kroil® from the barrel. If

**by Capt. Monty Mendenhall**



there is any copper fouling present, remove it from the barrel with Hoppes #9. Wet a patch and push it through the bore a few times. Allow the Hoppes-soaked barrel to sit for a few hours. Over night is ok.

Next, scrub the barrel with a tight-fitting bronze brush. Dry the bore with clean patches.

The scrubbing not only removes the fouling, it removes the rust-protecting oil too. The final step of cleaning is to run a lightly-oiled patch through the barrel.

If lead bullets have been used, no Hoppes #9 is needed. Unroll an all-copper kitchen scouring pad. Don't use a stainless steel pad. It is harder than the barrel and will damage it. Cut a small square of copper mesh from the scouring pad. Wrap it around a worn out bore cleaning brush. Push the brush, wrapped with the copper mesh square, through the barrel a few times. This removes any lead fouling. Finish by pushing a lightly-oiled patch through the barrel.

Parts washers come in several sizes. The four-gallon size is large enough for smaller guns such as Uzis and MACs. The twenty-gallon size is necessary to completely submerge a Thompson or MP5 upper receiver and barrel.

Don't overfill the parts washer. Three gallons of Kroil® is plenty for the four-gallon model. Six or seven gallons is enough for the twenty-gallon parts washer. The fluid need only be deep enough to cover the parts.

The Kroil® will become dirty eventually. It may be recycled many times by filtering it.

Most parts washers come with a metal wire "basket" to hold small parts. Line it with a coffee filter. Place it on a brick in the parts washer, above the fluid level. Put the hose nozzle in the basket and turn on the pump. The dirt will be trapped in the coffee filter.

Some suppressors cannot be disassembled for cleaning. An overnight soaking in Kroil® is the best way to clean them. After soaking, stand the suppressor vertically until the Kroil® has drained. This process may be speeded by blowing compressed air through the suppressor.

If the suppressor can be disassembled, there is a better way to clean it. After thoroughly cleaning a used suppressor or before shooting a new one, disassemble it. Spray all internal surfaces with E & L Dry Gunlube®. E & L Dry Gunlube® contains

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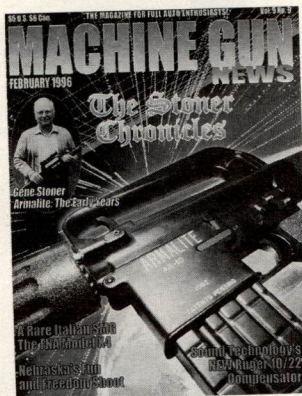
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powdered graphite suspended in a volatile liquid. It must be shaken well before each use. After application, the liquid evaporates quickly. It leaves a coating of powdered graphite tightly adhering to the parts.

Reassemble the suppressor. Apply an anti-seize compound on the suppressor's threads to ease future disassembly. Anti-seize compound is sold at auto parts stores. It is used to coat spark plug threads.

When the suppressor is next used, the new fouling adheres to the slick E & L Dry Gunlube®. When it is time to clean the

suppressor again, disassemble it and put all the internal parts into a vibrating case polisher. Let the case polisher run a few hours. All but the most stubborn foul will slip free from the internal parts. The remaining deposits are easily scraped away with a dull knife blade.

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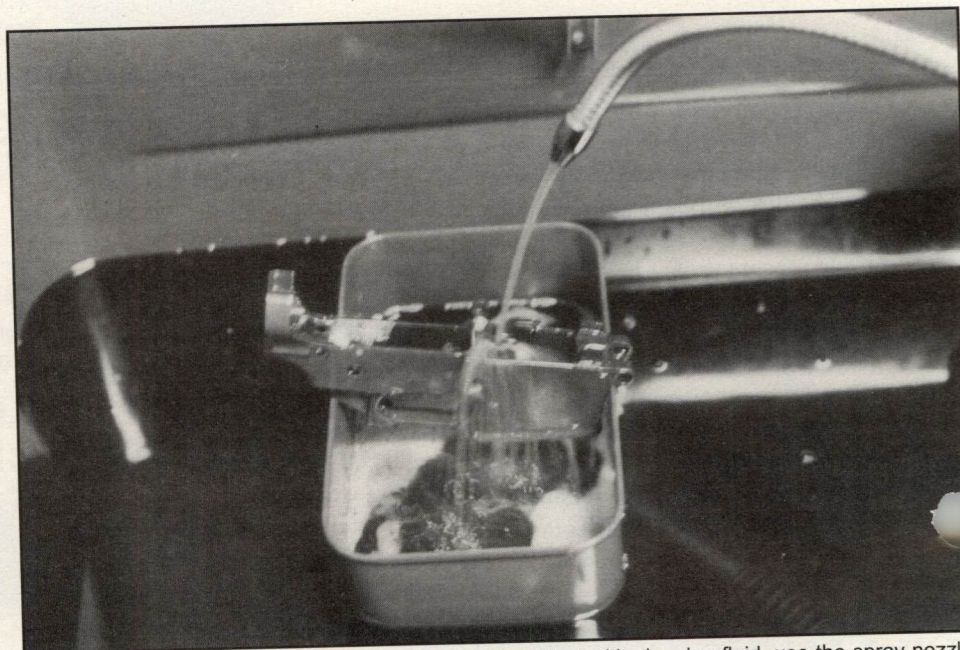
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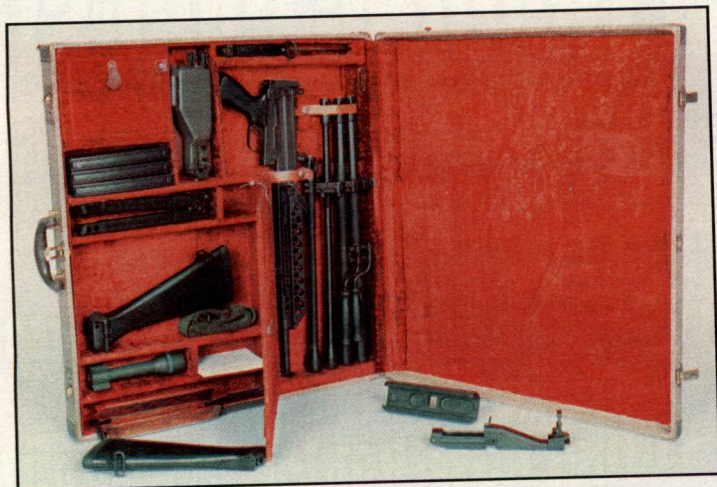
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*Dateline 1968, Republic of Vietnam—The brown water made quiet lapping noises as it gently rocked the PBR at its mooring. Taylor sat cross-legged, peering intently at the pile of parts spread on the old poncho that was laid out before him. The gentle noise of the water against the boat helped smooth the sharp edges off of his day. Diesel smells cut through the odor of the mud that encrusted his disassembled weapon, cleansing, but not completely dispelling it. Taylor mused on the fact that no matter where you were, mud was mud, and the mud from the mangrove swamps of the Rung Sat Special Zone was no different from the mud in the Louisiana Bayou, or the Indian River mud, or any other mud that those powers who guided his life seemed intent that he spend his life in.*

*He sighed in resignation, and heaved himself up to his feet, grabbing several of the muck-covered parts to his Stoner 63 machine gun. Over to the cleaning table, and once again he started the drill—dip in diesel, shake, brush; dip in diesel, shake, brush, until the parts were clean. Taylor had been married to the Stoner 63 in a warrior's ceremony that most wouldn't understand. After his first mission, when he had chosen an M2 carbine because it was light, he found out it wouldn't do the job in the vicious fire-fight that was his baptism to the Rung Sat. He needed something he could trust, that would take down the enemy. His next choice was an old M3A1 Grease Gun, which was a considerable improvement over the M2. He laughed when the mental image of a herd of 230 grain lead bumblebees, shrieking through the thick jungle leaves, played through his head. Damn! If he didn't hit anything, it sure kept Charlie's head DOWN! The Grease Gun just wasn't the trick, though, and Taylor had known from the instant that he saw the Stoner that they were meant to be together.*

*When the Team went out, they had two men on the Stoners. Every time. Taylor had seen eight missions with his, five of which had culminated in contact. Never once had the Stoner let him down. He kept it clean, every single part of it clean, each and everyday. Like physical training for the body, and the rigid mental training that he did every day in order to keep his cool in the long, mosquito-filled hours waiting for an ambush to pan out, the cleaning of the Stoner was his ritual. He started the reassembly in the familiar rhythm: the barrel, the bolt, the trigger group, the buttstock, the feed mechanism. Turn the gun, pull the charging handle to the rear—smooth as silk—release it, the positive click as the bolt head locked into the barrel extension. Everything*



Early Cadillac Gage salesman sample case.

## The Stoner 63 Models

**Stoner M69W** Prototype .308 caliber belt-fed/magazine-fed convertible, one made.

**Stoner 62** Prototype .308 caliber belt-fed/magazine-fed convertible, one made.

**Stoner 63** .223 select fire rifle with interchangeable parts for six different models. Approximately 2400 made, 1 in 12 twist barrel.

**Stoner 63A** .223 select fire rifle with interchangeable parts for seven different models. Approximately 850 made, 1 in 12 twist barrel.

**Stoner 63A-1** Dutch Stoner .223 caliber. Approximately 60 made out of existing U.S. Stoners, 1 in 8 twist barrel.

**XM207-E1** Generally considered to have a round trigger guard, larger gas system than 63 model. Unique hydraulic buffer in the buttstock. 1 in 12 twist barrel (no figures).

**XM207-E2** Generally considered to have a square folding trigger guard, large gas system, unique hydraulic buffer in the buttstock. 1 in 8 twist barrel (no figures).

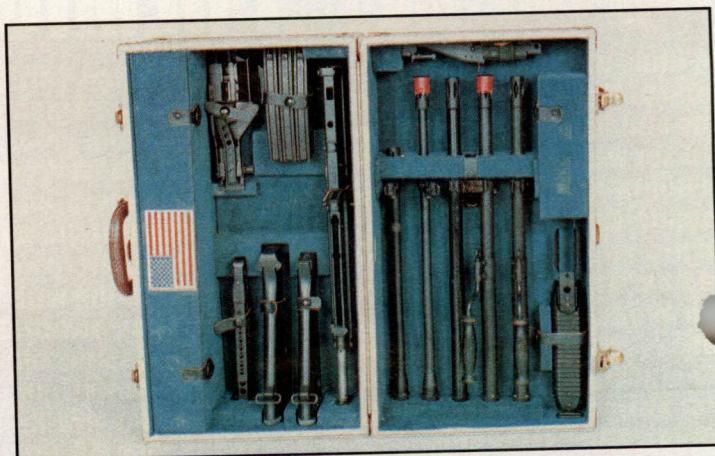
**Mk 23 Mod O** The Navy Commando—right-hand feed, short fluted barrel (no figures).

**Stoner 63A (Knight)** 100 made, standard 63A configuration

**Stoner 93** Thailand contract. Approximately 20 made out of existing U.S. Stoners.

*checked out, again. Next was the ammo. He examined each link, every case, every bullet. Several belts were cast aside to be used for target practice only. As good as the Stoner was, it wasn't smart to place your future on defective ammo.*

*There was a slight change in the air—another man might not have noticed it. It was an almost imperceptible difference in the quality of the sunlight, and it told him that in a few short seconds his poncho, the cleaning table, the PBR, Taylor himself and his beloved Stoner, along with every other thing nearby, was going to be soaked through and through by a drenching Vietnam rainfall. Taylor got to his feet, grabbed the poncho, covered the diesel drum, picked up his machine gun and ammo, then felt the first few droplets that signaled the beginning of the downpour. He made it halfway to the armory before it all came down, making any haste he had felt absolutely pointless. The Stoner glistened in the rain, water beading up on its metal parts. It was in its element and was as ready as Taylor for the coming night.*



Later Stoner sales case for the 63A system.



# The Stoner Chronicles



## Part IV: The Crown Jewel

Text: Dan Shea

Photos: Jim Bonis



Eugene Stoner had a busy year in 1959. First, in January the contract was signed with Colt for the AR-15 and AR-10A. Then he and Bobby McDonald traveled around the world showing those two models. The response they received was overwhelmingly positive towards the 5.56mm AR-15 and Bobby sent a telegram to Colt to stop the AR-10A and concentrate on the smaller rifle. Artilerie-Inrichtingen (Netherlands) was working on the AR-10 series, and Stoner's AR-16 was eventually scaled down to the AR-18 series. Armalite had been sold to a group of Texas investors.

Stoner had accomplished a lot in the previous five years, revolutionizing modern firearms and the production methods used, but there were still other ideas he had an interest in. In 1961 he left Armalite to pursue those dreams.

Russell Bauer was the president of a company called Cadillac Gage. He had a plant in Costa Mesa, California. Eugene Stoner met with him and described a new idea that he had. In his experience with the arms trade, he found that in building a light machine gun there were smaller quantities made compared to rifles, making costs prohibitively high. Each time you required a new model, you had to tool up and manufacture an entirely different

gun. Stoner proposed that one receiver be made, that would be convertible from an assault rifle to a light machine gun, to a medium machine gun, to a carbine, etc. This would dramatically cut the production costs, and increase the capabilities of any unit that was armed with the new firearm. Bauer loved the idea, and signed Stoner on as a consultant to Cadillac Gage for the project. He dedicated a small model shop to Stoner and hired a number of people to start building the Stoner M69W.

### Endangered Species Warning

I have been considering wearing a black armband in a melodramatic protest of the atrocity that is currently being committed by the United States government. Not only have these "public servants" been cutting up hundreds of thousands of perfectly serviceable M1 Garands, M1 Carbines, 1911A1 pistols, etc., that could have been in the hands of the veterans, collectors, and shooters that are American citizens, **THEY HAVE BEEN CUTTING UP STONER 63 MACHINE GUNS!** In the last five years, starting under the Bush administration, and especially under the direction of the Clintonistas, Crane has destroyed 2750 Stoner 63 and 63A machine guns, along with all of the parts and accessories. Add the numbers up—less than 500 of these guns remain! They cruelly torch-cut the receivers, then feed the parts and accessories to a vicious chopping machine with steel teeth that crushes, grinds and dismembers the remains until little is left that might give you a clue as to what this pathetic 15-ton mound of metal shavings and plastic once was. It was an arsenal of Stoner 63 machine guns, the proud legacy of one of the premier firearms designers of this century, and the preferred weapon of elite U.S. Military fighters in the Vietnam War. Call your Congressmen today. Ask them to STOP the destruction, and get what small quantities that still remain of these endangered species put into the various museums that would love to have them on display!

### Transfer Status Of Stoner 63 Type Guns

(All of the following numbers are information that is probably not totally correct, but it is the best we have been able to get to date.)

#### Stoners that are fully transferable to individuals:

- 25 Stoner Model 63
- 5 Stoner Model 63A
- 100 Stoner Model 63A (Knight)

#### Stoners that are pre-1986 dealer samples:

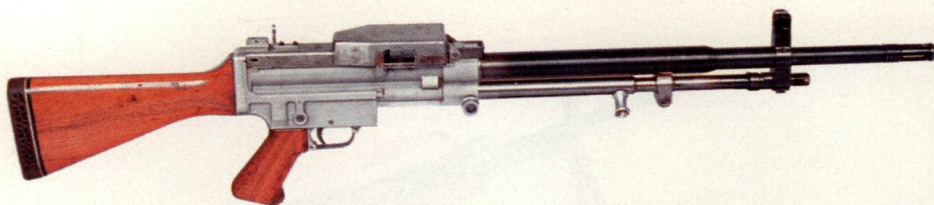
- 33 Stoner Model 63A (Ed Kline brought in from Mauser)

#### Stoners that are post-1986 dealer samples:

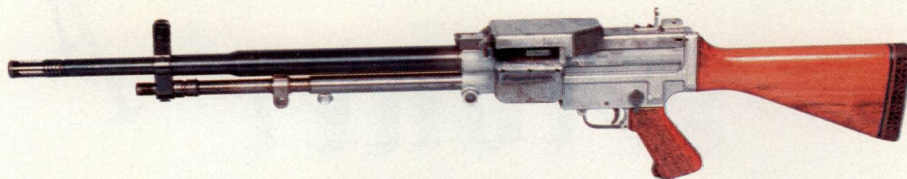
- 25 or so registered on Form 10's at PD's, or imported after 1986

In order to adjust the format of the Stoner Chronicles for the readers of MGN, we have jumped forward in the Armalite story.

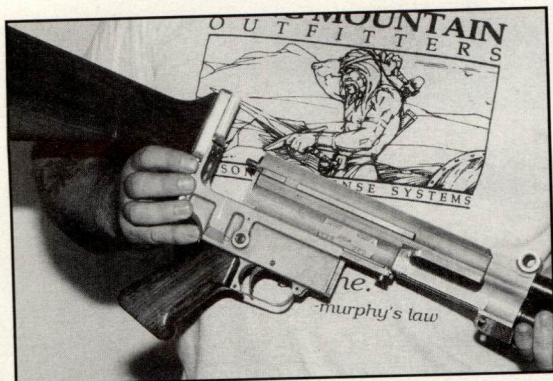




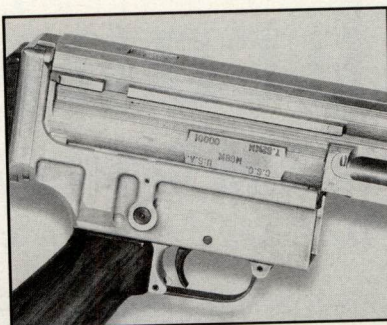
Stoner M69W serial number 00001. Right side.



Stoner M69W serial number 00001. Left side.



M69W buttstock/lower being removed to the rear.



Receiver markings on M69W. The model number remains the same even though all of the other writing is inverted.

## Stoner M69W

Stoner had an ingenious way of making this convertible gun. He would design the receiver so that it could be used as a rifle, then turned upside down to become the machine gun. His first try (in 1961-62) was his M69W, which model designation was chosen because when you turn it upside-down, it still reads "M69W"!

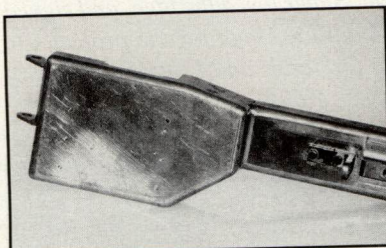
The controversy was still raging over what was the appropriate caliber for military small arms use: .223, or .308. There were proponents on each side of this controversy, and

Stoner was, and up to this point always had been, a .308 man. M69W was manufactured as a .308 caliber belt-fed light machine gun, and the magazine feed for the rifle configuration was never finished.

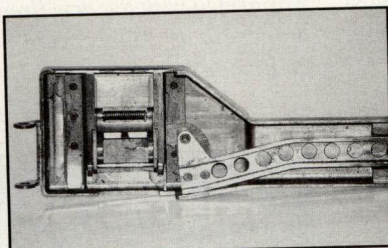
## Detail Analysis

M69W is a 7.62 mm x 51 mm (.308) caliber belt-fed machine gun. It is set up to be inverted and utilize a 20-round magazine. Markings are "CGC" "USA" for Cadillac Gage Company, Model "M69W," serial number "00001." It features a wooden buttstock, wooden pistol grip, no forend, and a heavy quick-change barrel. The front sight on the M69W can be moved to the top or the bottom using a screw, and it has standard dovetailing. The cocking handle is on the lower right when in the belt-feed configuration. When brought up to rifle configuration, it's on the upper left at about a 45 degree angle. The pistol grip/trigger group is removed by rotating the selector lever backwards, then sliding the lower to the rear. Selector is safe and fire, full automatic only.

Stoner used his eight-lug pattern bolt head on the M69W, and it is about the size of the AR-10's. He changed the extractor shape from what was used on his previous designs, and the ejector is placed on the belt-feed mechanism on the feed tray. The M69W bolt carrier system has a rough steel finish. The evolution of the



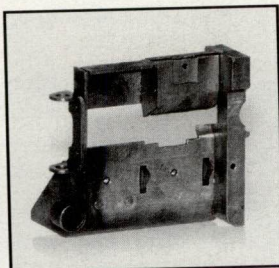
M69W top cover.



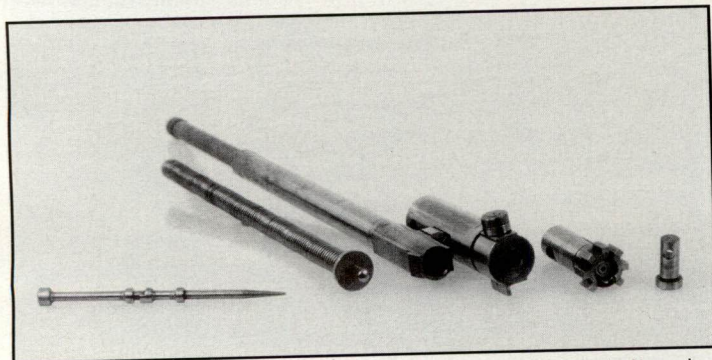
M69W top cover/feed mechanism.



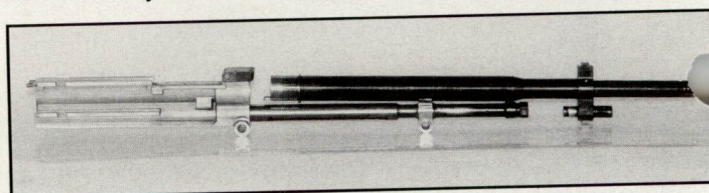
M69W pistol grip/trigger housing.



M69W feed tray.



M69W bolt group from left: firing pin, recoil spring assembly, bolt carrier, bolt, cam pin.

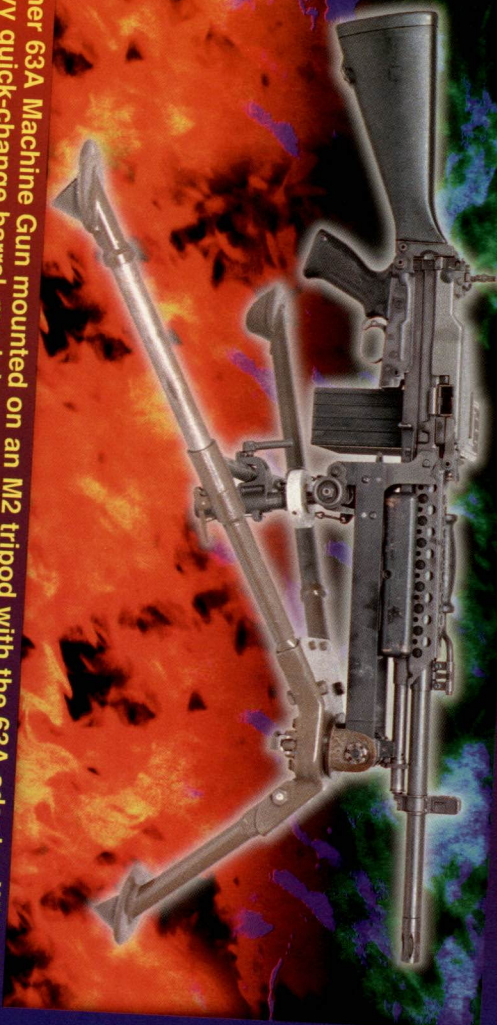


M69W barrel being removed to the front of the stripped receiver.



## Stoner 63A Carbine

The Stoner 63A Carbine had two variants: one with a solid folding stock, the other with a wire type side folder. The barrel is shorter than the rifle version.



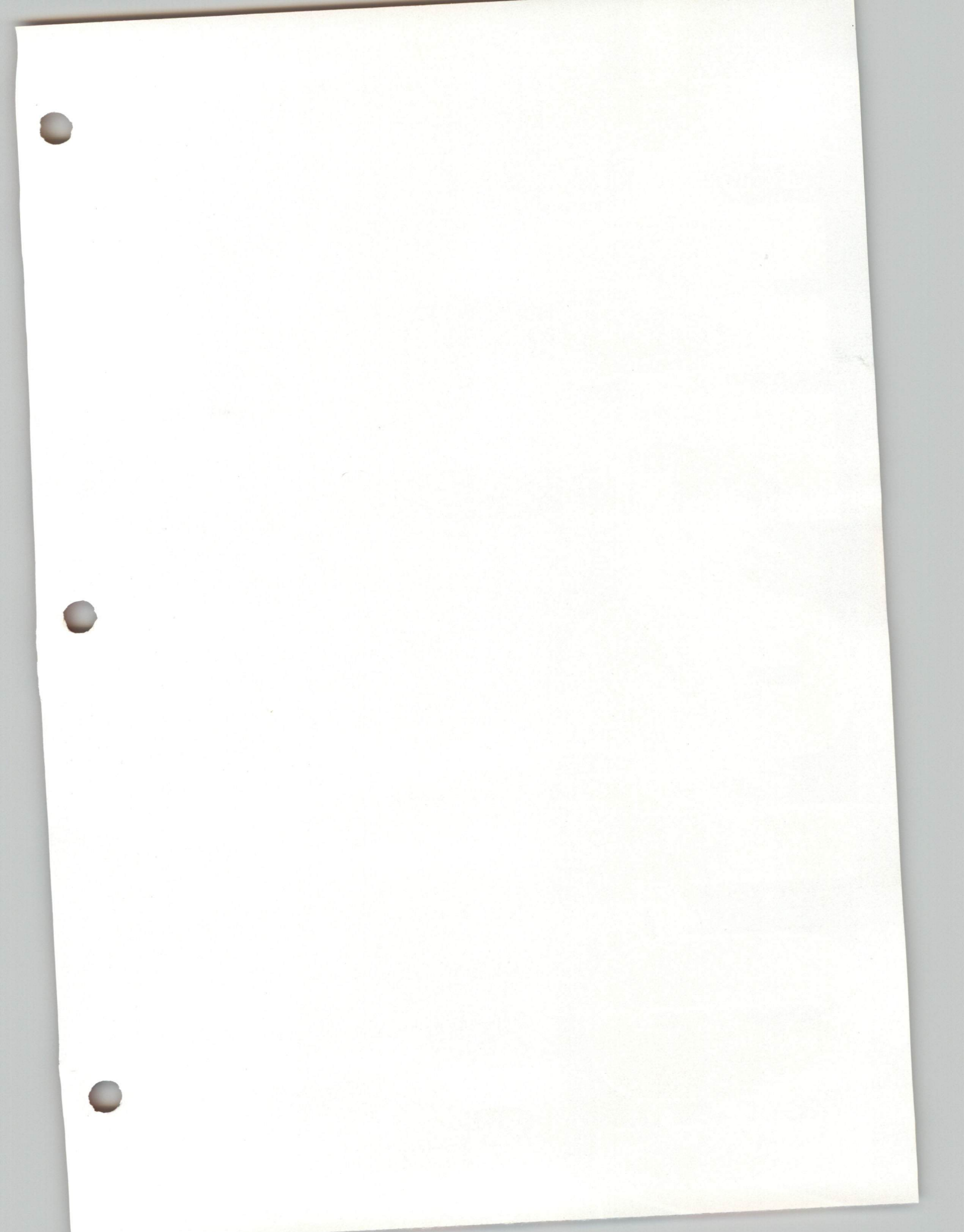
Stoner 63A Machine Gun mounted on an M2 tripod with the 63A adapter. With its heavy quick-change barrel, modular parts system, and the lighter 5.56 ammunition, this system proved to be a good defensive machine gun system. It was easier to keep "fed" because of the weight ratio to 7.62 NATO.

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# THE STONER



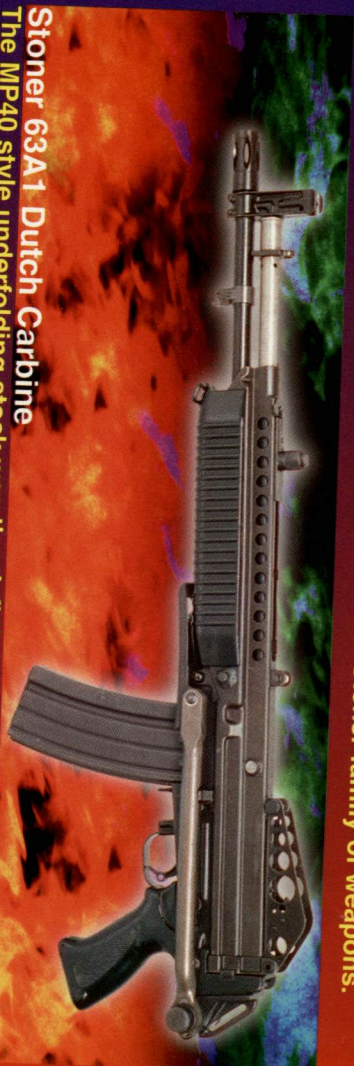






### Stoner 63A Commando

When people speak of the SEAL Team Stoner, the Stoner 63A is generally what they are referring to. Short-fluted heavy barrel, left-hand belt feed with a 150-round drum was the style chosen as the real workhorse of the Stoner family of weapons.



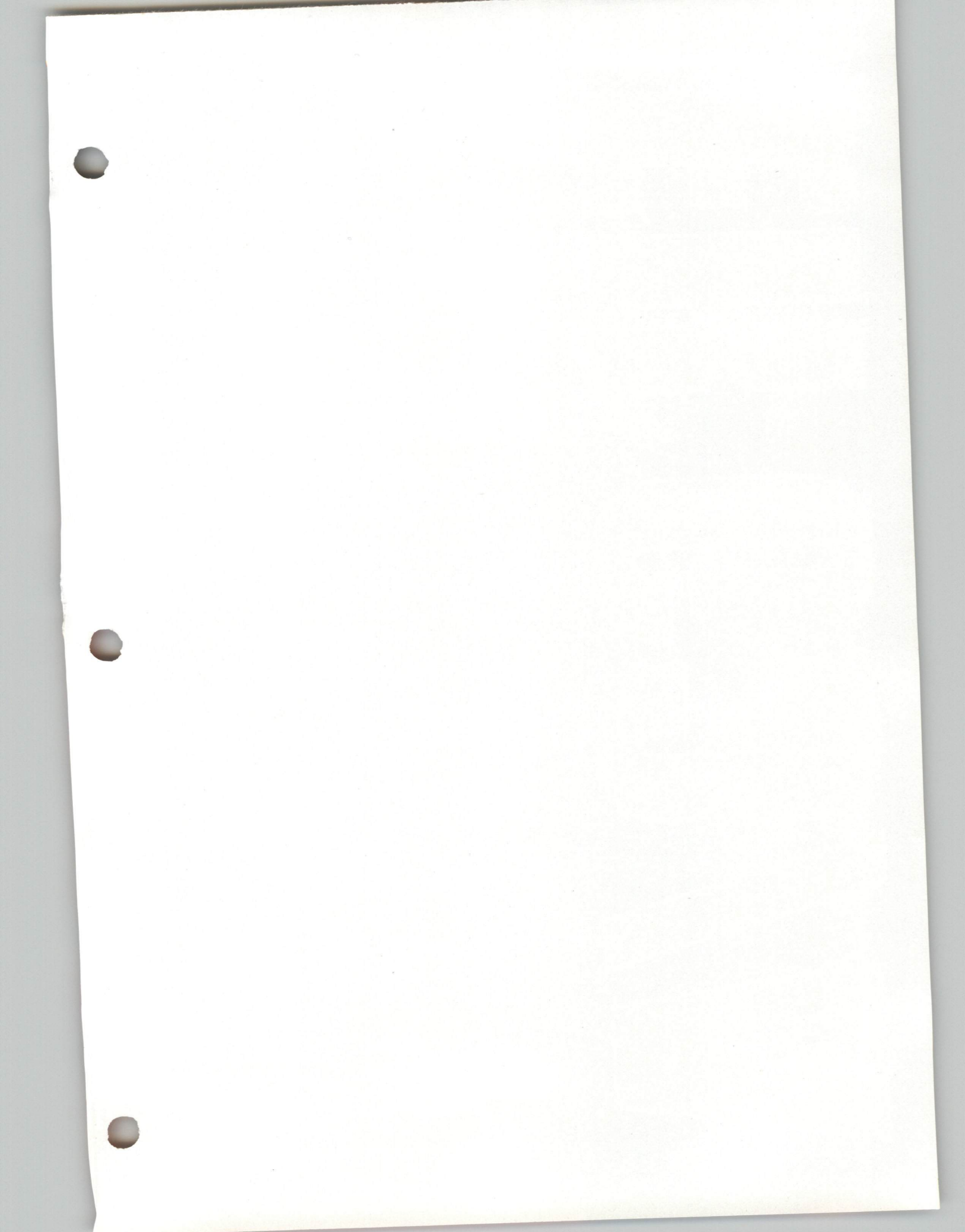
### Stoner 63A1 Dutch Carbine

The MP40 style underfolding stock was the defining characteristic of this Stoner 63A1 Dutch Carbine. A rare design, marked "Mausier," it was altered by that great European firearms manufacturer during experiments in the Netherlands.

Eugene Morrison Stoner, firearms designer. Stoner has over 50 years of experience in the firearms field and holds over 100 patents in ordnance. In addition to the Stoner 63 systems, his designs include the M16 series rifles, ARES automatic cannons, the AR-10 series, the FARC-2 Future Assault Rifle, the AR-7 survival rifle, and the TRW Bushmaster 25 mm Automatic Cannon. He is the first recipient of the prestigious "Harvey C. Knowles" Award for achievements in the ordnance industry and is a member of the Ordnance Hall of Fame.

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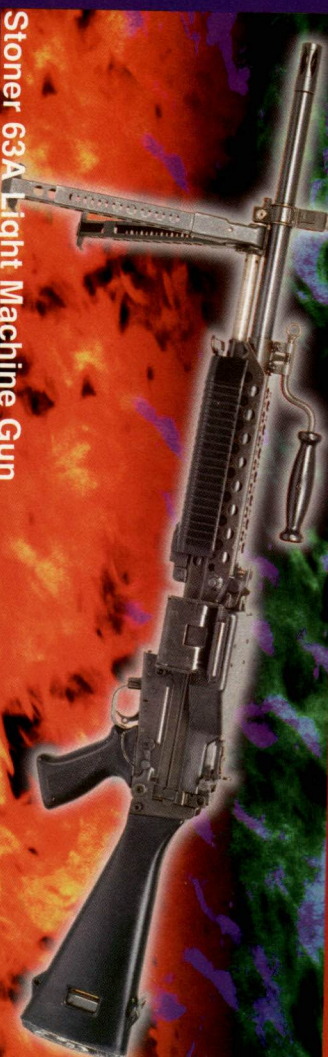
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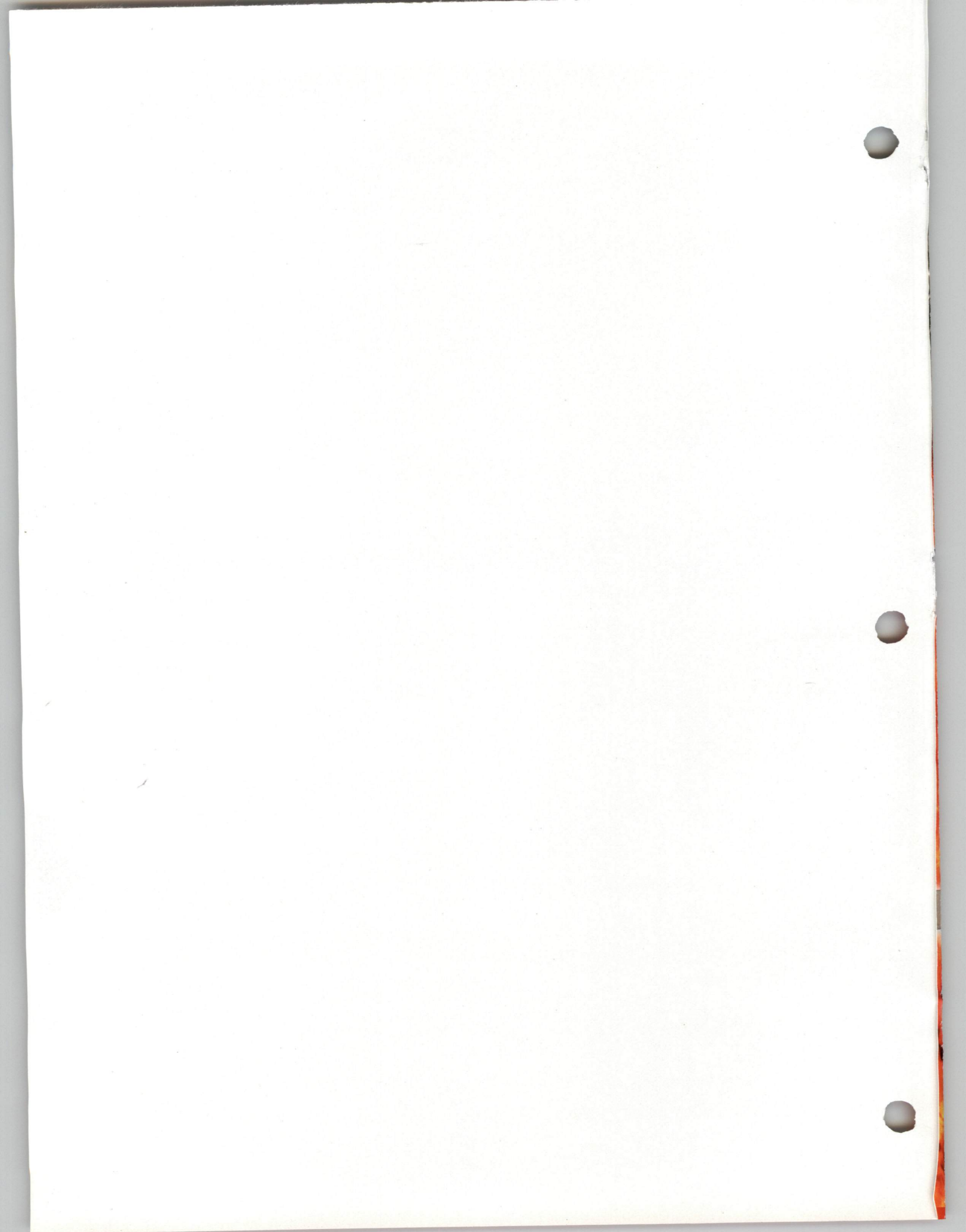
The Stoner 63A "Bren" (Squad Automatic Weapon) was a rifle variant that is magazine fed from the top with a special adapter. Sights are offset to the left, on a heavier barrel.



The Stoner 63A Light Machine Gun standard mechanism was a left-hand belt feed, with a heavier barrel and links. Ammunition was fed from 100-round boxes, 150-round drums, or hanging belts.

The Stoner 63A Aircraft is set up for remote firing in this configuration. A 24-volt solenoid activates the mechanism that depresses the trigger.









#### Stoner M69W

The Stoner M69W in 7.62 x 51 NATO was Eugene Stoner's first attempt at a convertible belt-fed/magazine-fed weapon (1961). A prototype only, it was tested extensively and found to be a sound design.



#### Stoner 62

The Stoner 62 in 7.62 x 51 NATO was the follow-up gun to M69W (1962). Convertible to belt feed or magazine. Stoner had intended this firearm to be the production gun for Cadillac Gage.



#### Stoner 63 Rifle

The Stoner 63 Rifle in 5.56 x 45 NATO was the first production model of the Stoner 63 system (1963). Caliber had been changed to .223 because of military demand-- for use in Southeast Asia.

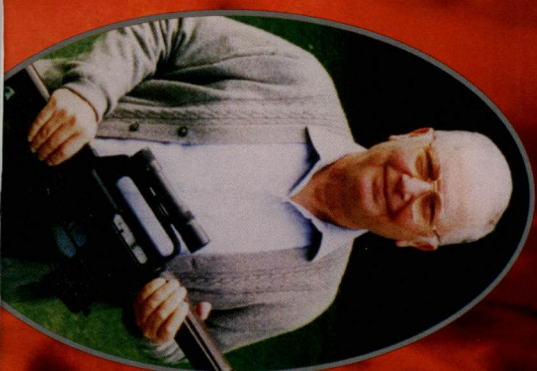


#### Stoner 63A Rifle

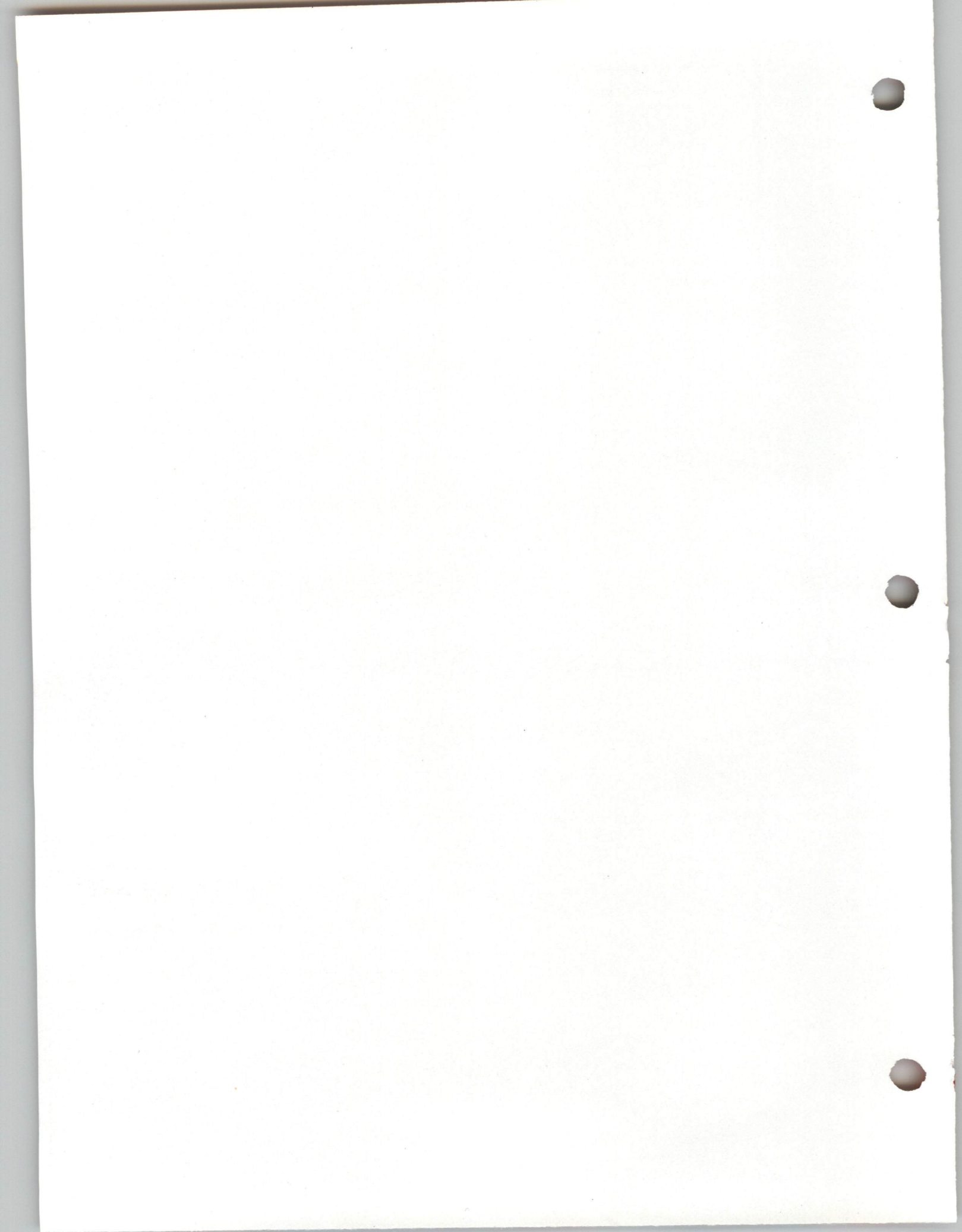
The Stoner 63A Rifle in 5.56 x 45 NATO was Stoner's final production design that was convertible into seven basic variants (1969). This model has a MAC Sionics suppressor on it.



# THE STONER





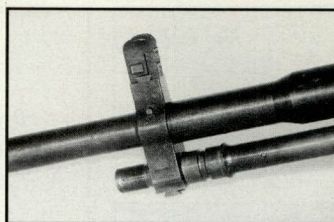




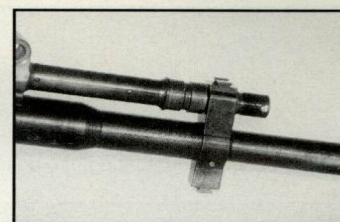
Stoner 63 system is especially evident in the new bolt carrier system. The firing pins are similar, the bolt carrier systems are extremely similar, and the roller is invertible on the bolt for belt-fed or for magazine feed as is on M62, M63, and M63A series.

The receiver is milled aluminum, as is the trigger group. M69W was overbuilt, and that is evident from its weight. It was extensively tested in endurance firing, and the design worked quite well....

*Eugene Stoner was raising a family while he was living in Costa Mesa. As a consultant for Cadillac Gage and father of four children, he had little spare time. His team from Armalite went with him to Cadillac Gage: Jim Sullivan and Bob Fremont. Later, Bob Fremont left and went to work for Colt. As the M69W project testing progressed, Stoner assessed where they could make improvements. In 1962 he started the Stoner 62, which was intended to be the production model of the design.*



M69W barrel and front sight in machine gun configuration.



M69W barrel and front sight inverted for rifle configuration.



Stoner 62 serial number 000001. Left side.



Stoner 62 serial number 000001. Right side.

## Stoner Model 62

The Stoner 62 was built as a second model of the Stoner M69W to further show the ability to have a convertible gun that would give you a commonality in parts between a belt-fed machine gun and an assault rifle. The convertible gun is what Stoner patented, meaning that the gun was capable, by turning the receiver upside down, of becoming several different models. Inverting the receiver changed the gas system from the top to the bottom and allowed for feeding ammunition from the top on a belt feed and it fed from the bottom as an assault rifle. Stoner's concept in the Stoner 62 was quite unique in that it had the magazine well for the rifle (M69W's was never completed). In the magazine well were a hammer and a trip sear. In the trigger group was a trigger that was used for the machine gun and also used for the rifle. The two barrels were significantly different from each other in weight. The rifle had a very lightweight, small, lightly contoured barrel and the machine gun had a much heavier, robust, "heat sink" type shape. The 62 used an aluminum receiver with a steel handguard that protected the hand from getting burned on the hot barrel, that had a wooden liner over it. There is also a steel sleeve that goes back into the aluminum receiver so that the barrel actually wore or rubbed in the steel sleeve, inside the receiver.

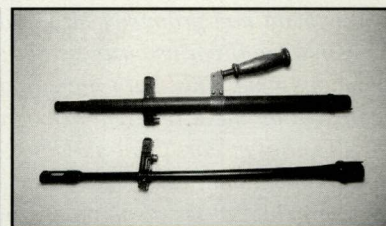
The weight of the bolt in M69W did take away from the power of the feed mechanism. So one of the things Stoner had to do with this new gun was to make it feed as smoothly as possible—hence the roller system is modified. The gas piston in 62 was smaller, so the gas port was enlarged to increase the back pressure. Finish of the bolt carrier on Stoner M62 is blued. There was a wooden forend that looked like it was in two pieces but very similar to an FAL heavy



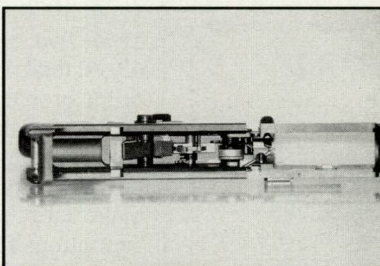
Removing Stoner 62 buttstock/trigger group. Slides to the rear.



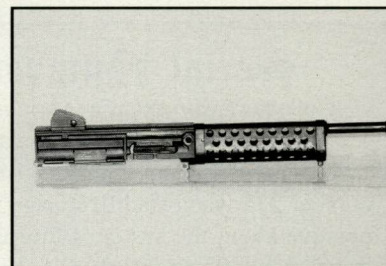
Stoner 62 trigger group and mag well.



Stoner 62. Top: Machine gun barrel. Bottom: rifle barrel.

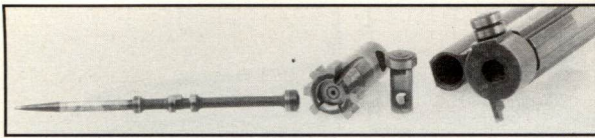


Inside Stoner 62 trigger group.

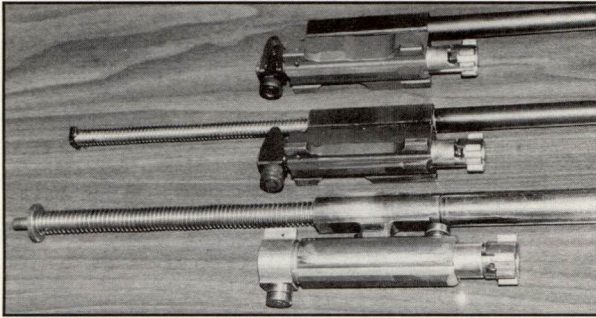


Stripped Stoner 62 receiver.





Stoner 62 left to right: firing pin, bolt, cam pin, bolt carrier.



Bolt carriers—Top: Stoner 63A. Center: Stoner 63. Bottom: Stoner 62.

barrel forend. It covered a perforated heat shield that wrapped halfway up the barrel. The sight could be moved. Where the sight is located on the receiver is the hammer location for the machine gun when it's inverted. The heavy barrel inverts and has the sight on the other side of it. There is a bayonet lug on the front and a flash suppressor. There's a captured pin on the magazine housing, that is actually the selector for semi or full.

The bolt diameter and size of the bolt for the 62 was the same as the 69 and also was the same size as the AR-10A, which was the very last bolt face diameter that they put on the very last AR-10 that Armalite built. The Stoner 62 was demonstrated quite a bit, gaining a lot of publicity. Stoner started brochures, and the advertising was set to start. Instead, they decided on the Stoner 63.

*While Stoner was working as a consultant to Cadillac Gage, he went to work for a company called TRW to help establish them in the firearms business. TRW had just been financially hurt in a U.S. government deal. They had built the M14 and had just gotten up to production, when the government canceled all their contracts. All the investment they had made was gone, along with the potential profits they had been counting on. The government had promised TRW that if they would get back into the firearms business, they would take care of them this time. TRW built the 25 mm anti-aircraft gun that went on the LAV (light armored vehicle). TRW set up a facility in Port Clinton, Ohio to build this new 25 mm cannon. Stoner worked with them and got that gun up and going at the same time he was still working on the Stoner 63 at Cadillac Gage in Warren, Michigan.*

## Serial Number 234

Collectors who examine various Stoner 63's will see Cadillac Gage, "Costa Mesa, California" or "Warren, Michigan." The transition was at serial number 234 when Cadillac Gage was feeling very positive about the system's future, so they moved production to the main plant in Warren, Michigan.

## Marines and the Stoner 63

Procurement of the Stoner 63 by the Marines was called for by General Lou Walt, who was the Commandant of the Marine Corps. The U.S. Army asked the Marines if they had ever bought a weapons system, and the answer was "No." The Army offered to do the procurement for the Marines. The Army came back to the Marines and asked, "How many rounds do you want between failures?"

The Marines responded "Well, we've been shooting these guns all day and don't have a problem, I don't know, I guess, hell they just go forever. Rounds between failures? Three thousand sound good?"

The Army asked, "How long do you want the receiver to last?"

The Marines said, "We have some of these guns with a hundred-thousand rounds on them. Ok, so we want a hundred-thousand service life on these receivers."

"What about accuracy?"

"Well," said the Marines, "these things shoot real well, we can just drill holes with them."

"Well, then we want this thing to shoot subminute of angle" said the Army.

"What kind of ammunition do you want it to shoot?" the Marines were asked.

"This Stoner will shoot anything. So it's got to shoot any kind of 5.56 we put in it whether it's 5.56 tracer or whether it's 5.56 ball, any type of 5.56 ammo, this guns got to work with."

This is basically how the parameters for the test for a new Marine Corps weapon were developed. The Stoner 63 was so impressive, that impossible goals were set for the tests. These were stricter by far than had ever been set for any weapons test.

Of course, during the testing, some of the Stoners didn't make the grade. Notwithstanding that no other firearm entered could even come close to the performance of the Stoner 63, it failed the test that was built around its own previous performance!

Oddly enough, when the Stoner had failed the impossible test, the Army came back to the Marines and informed them that the Army had a new light machine gun in 6 mm (the Rodman), and would you like to try ours out? Stoner felt that the Army was jerking him around after a long period of being sent home to try something new "Then we will buy the 63" by the Army procurement personnel... and then hearing it again. When he found out about the Rodman, Bauer made the decision to pull out of what had now become the Squad Automatic Weapon trials. The 6 mm was immediately abandoned on the first attempt by the army to do a procurement, and after millions of dollars spent, the Marines moved on to other projects. In spite of all the favorable testing and Marine use in Vietnam, politics and time had killed the chances for the Marines to adopt the Stoner 63 system.

## Little Creek

In 1978, in Little Creek, Virginia, Reed Knight encountered SEAL Team Two. His recollection is that they had about twenty Stoner 63's and 63A's, total. Overall condition of the guns was pretty bad, but a large part of the problem was that many of the 63s had 63A parts in them and a lot of the 63A had 63 parts in them. The Stoners had been "rode hard and put away wet"; they just had not been properly maintained. There were only three guns that were functional. Knight had to sort all the parts and make sure they all had the correct 63 or 63A rifle or machine gun configuration. Those guns have been turned back into the depot where the government destroyed them.





Stoner 63 serial number 000001, right side.



Stoner 63 serial number 000001, left side.



Stoner 63 serial number 000002, left side.



Stoner 63 serial number 000002, right side.

## The Stoner 63

The 63 was quite different from the 62 in that it had a stamped sheet metal receiver—it had very few aluminum parts in it. Stampings were used to reduce costs. The 5.56 gun was simplified quite a bit over the more complicated .308. Originally, Bob Fremont and Eugene Stoner had started the Stoner 62 with .308 as the preferred caliber. They had just finished the 62 and started showing it around when a lot of momentum was imparted to the 5.56 cartridge that Stoner had developed for Colt. Stoner remembered the trip of March 1959, that he and Bobby McDonald and Bill Mullins had taken around the world, where the people seemed interested in the 5.56 gun. It was more desirable than the .308 gun for smaller stature people. The Vietnam War was starting up, and military people were saying how much they really needed a belt-fed 5.56.

Stoner took the link from the original .308 and scaled it down. In 1963, Stoner built a prototype Stoner 63 rifle (serial number one), and it was so successful that they went into tooling to build some of the very first Stoner 63 belt-feds. The Marine Corps immediately started trying to obtain some 63's. In fact, the Marine Corps has some of the very early guns: gun number four, and gun number five. The M16 was having problems in Vietnam because of the gas system and the powder. The same problems that were plaguing the M16 were also plaguing the Stoner 63. The ammunition was not totally mature yet, and the gas systems on 5.56s were susceptible to powder problems.

Another problem that arose was that the Marines tried to issue two machine guns and four rifles per squad. Within a short period of issuing the Stoners, all those riflemen went down to the supply clerk and traded a box of C-rations or something for a belt-fed mechanism so they could change the rifle into belt-fed. The

## Specifications Stoner 63

### WEIGHT (in pounds)

Light machine gun, belt-fed	11.68 lbs.
Full plastic ammunition box (100 rounds)	3.31 lbs.
Sling	0.31 lbs.
Firing weight (100 rounds, sling and bipod)	16.18 lbs.
Bayonet knife, M7	0.60 lbs.
Scabbard, M8A1	0.30 lbs.
Bipod	0.88 lbs.
Bipod case	0.31 lbs.

### LENGTHS (in inches)

Light machine gun, belt-fed	40.25 in.
Light machine gun, belt-fed, with bayonet	45.65 in.
Barrel (bolt face to muzzle)	20.00 in.
Barrel with extension and flash suppressor	21.67 in.

### MECHANICAL FEATURES

Rifling	Right-hand twist
(6 grooves)	one turn in 12 in.
Bore diameter (maximum)	.220 in.
Groove diameter (maximum)	.2245 in.
Sight radius	22.25 in.
(from rear of rear sight aperture to mid-point of front sight)	
Trigger Pull Maximum	9 lbs.
Minimum	6 lbs.
Method of operation	Gas
Type of lock mechanism	Rotating bolt
Method of feeding	Belt feed, disintegrating metallic link
Cooling	Air

### AMMUNITION

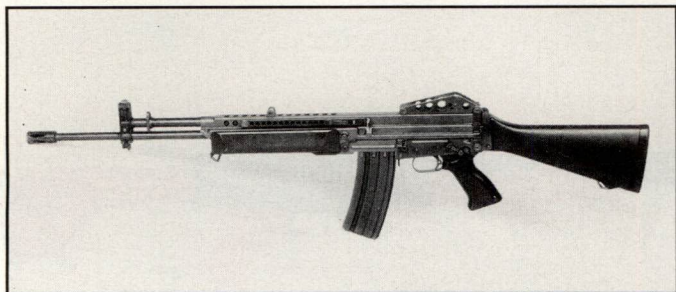
Caliber	5.56 (.223 caliber)
Type	Ball, tracer and blank

### FIRING CHARACTERISTICS

Muzzle velocity	3250 fps + 40 fps
Muzzle energy	1300 ft. lbs. (approx.)
Chamber pressure	50,000 + 2000 psi
Cyclic rate of fire	Variable from 700 to 1000 rds. per min.
Maximum sustained rate of fire	75 - 125 rds. per min.
Maximum effective rate of fire	150 - 200 rds. per min.
Maximum range	2895 yds. (2653 meters)
Maximum effective range	1203 yds. (1100 meters)



## Stoner 63 Rifle Configuration

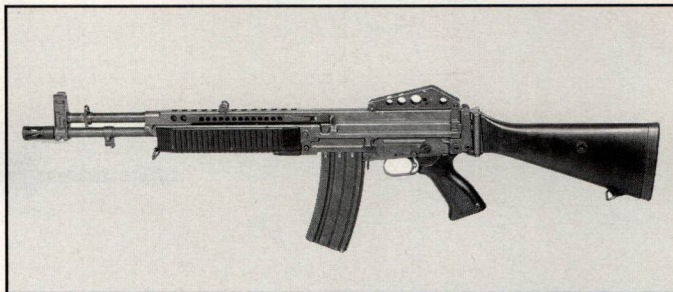


Stoner Model 63 serial number 238, rifle configuration, has wooden forearm that's painted, pistol grip and buttstock are plastic. Left side.



Stoner 63A rifle serial number 3054 has the plastic forend, plastic furniture, standard rifle with the sionics suppressor. Left side.

## Stoner 63 Carbine

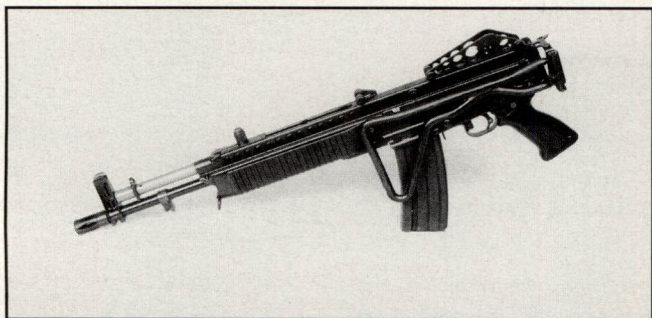


Stoner 63 carbine serial number 313, buttstock open. Left side.



Stoner 63 carbine serial number 313, folded stock, note the new plastic forend. Left side.

## Stoner 63A Wire Stock Carbine



Stoner 63A Carbine serial number 3037, short barrel, new wire type folding stock (side folder). Left side, buttstock folded.

soldiers were not controlled and kept in their assigned status as "Riflemen." They were making themselves "Machine Gunners," which is an entirely different function. This became a very negative aspect. Many Stoners were modified to prevent them being anything other than rifles or carbines.

The Stoner 63 matured through trial and error—feedback from the field. Cadillac Gage was trying to be so accommodating that every time users pointed anything out, they just changed the items in question, not particularly paying attention to the total interchangeability of the previous parts. This led to problems in that users now had a system where they had 63 belt-fed guns that the parts off of the 63As would not fit, and rifle parts that could not be interchanged, etc. The most critical problem is that not only parts were becoming obsolete, but the understanding of the aver-

## Major Differences Between the Stoner 63 and 63A

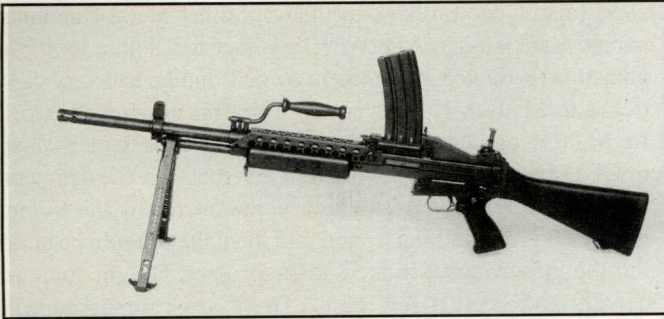
The main difference between the 63 and 63A is internal and related to the fact that the 63 had a weak feeding system. One of the reasons for that is the rollers that were used. The 63A has a better feeding system; one roller is used instead of two, and the roller is spring-mounted so that the cover can be closed in any position. Physically, the charging handles were in a different place. The 63A gas tubes were made out of stainless steel rather than carbon steel. The 63A has a dust cover. The 63A has the ability to take a drum or a horizontal box carrier. The selector on the 63A is a two-position with a separate sliding safety, as opposed to a 3-position selector that is on the 63. Wood was used for the furniture on very early 63's. Rifles and carbines after approximately gun 234 had plastic furniture. Wood forearms were used on all 63's in MG configurations, while plastics were utilized on the 63A guns.

age user about what parts would fit on what guns was deteriorating. The number of parts and pieces and the interchangeability of those parts and pieces was not very well documented.

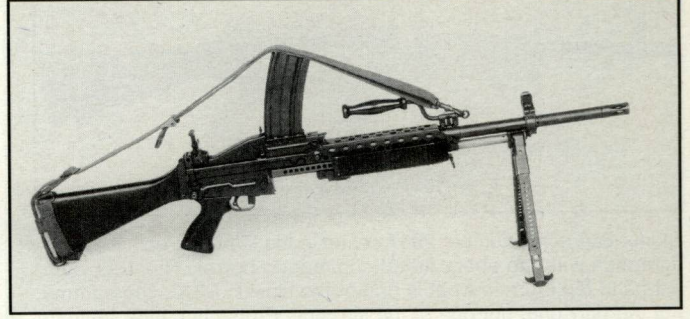
*The Stoner 63 program ended in the early '70s. Stoner and Cadillac Gage saw that the project was not going to take the Squad Automatic Weapon contract, and production ceased. Eugene Stoner, as always, immediately moved on into other designs and projects.*



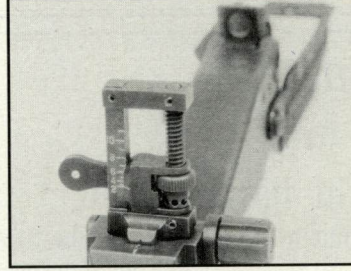
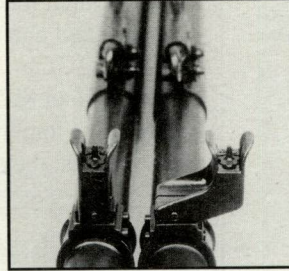
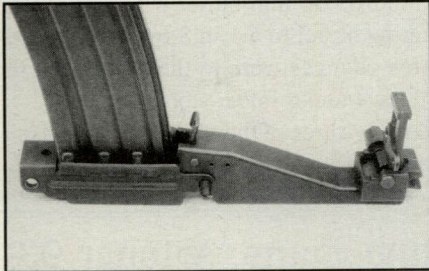
## Stoner 63 "Bren"



Stoner 63 serial number 1475 set up as "Bren"—wooden forend, plastic buttstock, plastic pistol grip. Left side.



Stoner 63A serial number 2772, "Bren" gun configuration with the carrying sling set up for the "Bren." Left side.

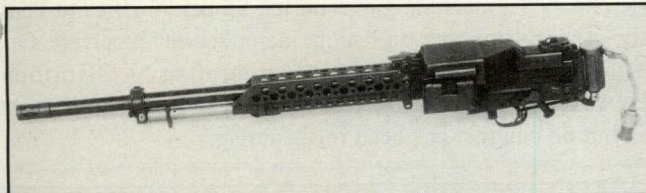


Far Left: Stoner 63 "Bren" magazine adapter.

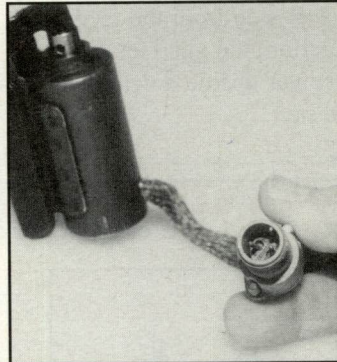
Middle: On left is machine gun barrel. On right is "Bren" type barrel. Note the offset sight.

Left: "Bren" style magazine adapter. Note offset in rear sight.

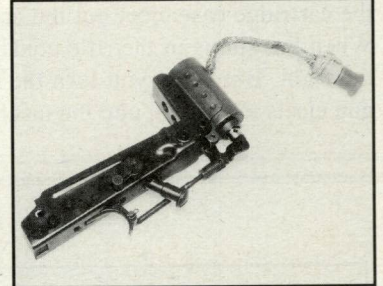
## Stoner 63A Aircraft Configuration



Stoner 63A serial number 2970 in the aircraft configuration. Left side.



Right: Connector to solenoid (24 vdc).



Stoner 63A solenoid-operated trigger system.

## SEAL Teams and the Stoner 63

SEAL Team One and SEAL Team Two were the only existing SEAL teams during the Vietnam War. SEAL Team Two had a main Area of Operation in the Rung Sat Special Zone, which was thirty square miles of Mangrove swamp and brown waterway in the Delta region. It was a hotbed of Viet Cong activity. The SEALs were not the largest purchaser's of the Stoner 63, but they were the main users. The Marine Corps had more guns in testing but they were not fielded.

The SEAL teams received a lot of press for their activities. The stories were very colorful, and the men captured the imagination of the public.

The need fulfilled by the Stoner 63 was seldom a rifle—99 percent of the time it was used in a belt-fed configuration as a squad automatic weapon. In fact, they had few rifle parts and carbine parts. The Stoner in its light machine gun roll provided a lot of "horsepower." Standard practice for the gunner was to put on a T-shirt, take a bandoleer of 150 rounds and run it around the shoulder going one way and run another one going around the shoulder the other way, then maybe two more. Another T-shirt went over the top of that. When he got into a fire fight, the gunner would have 150 rounds in his gun and at least another 300 rounds across his body. He could reach underneath the first T-shirt and break a link loose. He would then pull that belt out, swinging it around his hand until it was wrapped up, then stuff it into the bottom of his drum. Close the cover, pull the belt into the feed tray and he was ready to go. Until the entrance of the Stoner, most of them had been carrying a combat load for their rifles of 210 rounds. The SEALs with the belt-fed Stoners could carry 450-600 rounds with them. They became the point men, the critical link in a firefight, able to lay down a sustained and withering field of fire.



## SEAL Team "Commando" Gun



Stoner 63A serial number 2967 set up in the left-hand belt-feed configuration with the short, fluted commando barrel. The 150-round left-hand fed drum in what is one of the classic SEAL Team forms, not the only one, but one of the classics. Probably a later Vietnam 1969 or so variation. Note the cocking handle on the lower section of the gun.

## Spin Back and The Right-hand Feed

"Spin back" was a problem encountered by the SEAL Teams in Vietnam. As the cartridge case came out of the chamber, it hit on the feeder and bounced back inside the receiver, jamming the gun. This happened infrequently, one or two percent of the time, but that was enough to require fixing. That's the real reason Stoner designed the right-hand feed—to have the cartridge case eject out the opposite side from the feed. When the gun is in the rifle configuration, the gun ejects to the right. But when you turn the receiver upside down, the gun ejects to the left, into the mechanism.

## The Dutch Stoners

On the day President Kennedy was shot, November 22, 1963 (also Gene Stoner's birthday), Stoner met a Dutchman named Hank Visser. After WWII, Visser had sold a lot of the guns that the Dutch government owned, and he had very close ties with Mauser. He was selling firearms all over the world for Mauser, and he personally took the roller lock mechanism to CETME in Spain, which later came back to Germany and became the H&K series. Visser came over, saw the Stoner, liked it and went to Mauser and told them they should be building the gun. Mauser looked at the project, bought some receivers and built a few guns. These are rollmarked with Mauser's mark or NWM from Visser's company in the Netherlands.

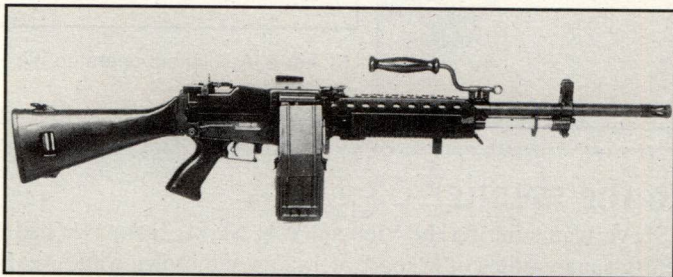
The Dutch made a new 5.56 mm bullet with a weight of 77 grains and changed the barrel to a 1 in 8 twist to help stabilize this. Other Dutch changes were to the bipod, and the carbine had an MP-40 style under folder stock.

Ed Kline imported thirty-three of these Stoners to the United States, and they have pre-86 dealer sample status.

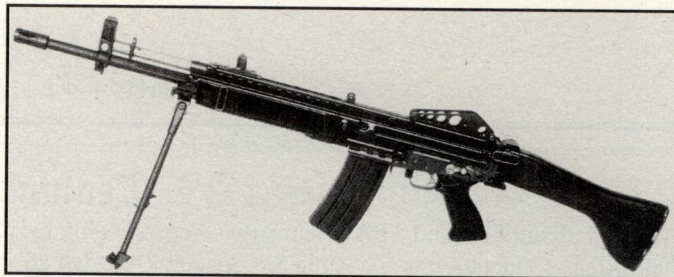
## The Thailand Guns: Stoner 93

In 1991, Thailand started looking for a rifle, light weight machine gun or squad automatic weapon, and they sent out an "RP" that all companies wishing to compete in the trials should send samples. Knight Armament Company sent samples of five Stoner 93 machine guns and ten Stoner 93 rifles to Thailand. These were built on Knight manufactured receivers. One of the main features was the addition of an ACOG tritium scope. Final results of the tests were very promising for the 93, but no contract has been forthcoming.

## Stoner Variants



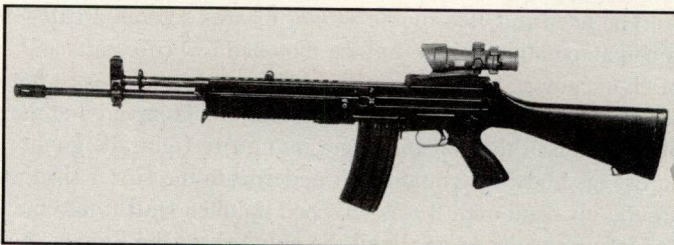
XM-207E2 Stoner 63A1 done with a right-hand belt-feed, 100-rd box magazine sideways for the right feed, serial number 3347, has a heavy barrel and the top cover opens from the left-hand side, has a square-hinged trigger guard.



Stoner 63A1 rifle serial number 2971—a Dutch configuration gun with the Dutch bipod and the Dutch buttstock. On the Dutch rifle, the barrel is fluted underneath the handguard. This rifle also has the prototype Dutch charging handle.



Stoner 63A1 carbine—Dutch underfolder. Serial number 2765. MP-40 style stock is extended.



Stoner 93—the Thai contract gun made in 1995, serial number 2272. It's a 63 with an ACOG sight, as well as several other innovations.



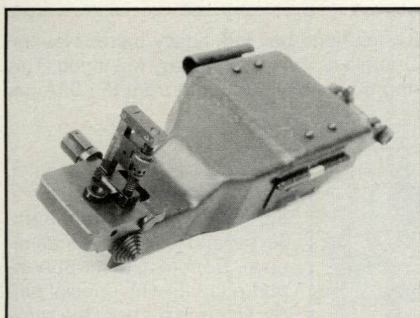
## Stoner 63 Light Machine Gun Configuration



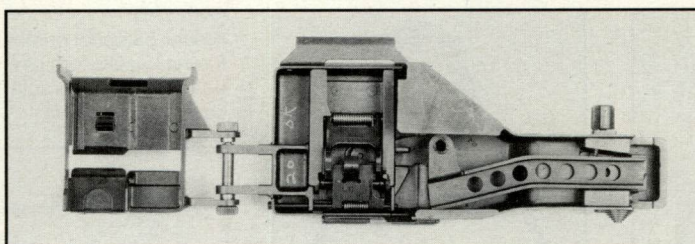
Stoner 63 in light machine gun configuration, left-hand belt-feed, left side.



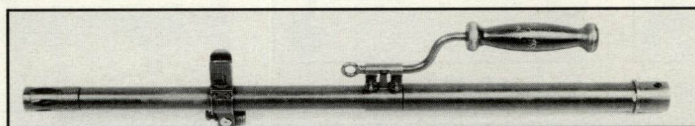
Stoner 63A light machine gun serial number 2721, left-hand belt-feed, plastic furniture, left side.



Stoner 63A top cover/left-hand belt-feed.



Top Left: Stoner 63A belt-feed mechanism inside top cover.



Bottom Left: Light machine gun barrel.

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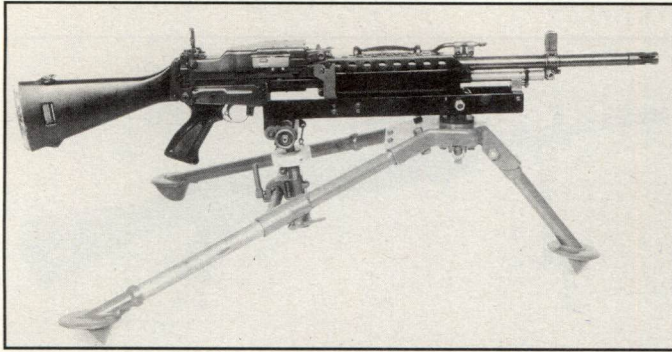
2918 E. Ginter, Tucson, AZ 85706

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Fax (520) 741-9466



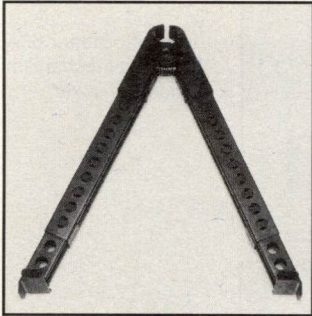
## Tripod Mounted Medium Machine Gun



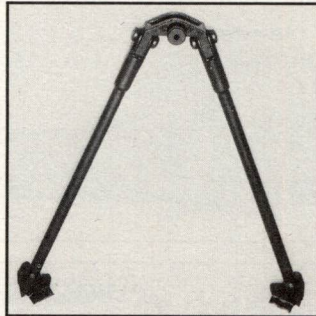
Stoner 63A heavy machine gun on an M2 tripod with correct cradle, heavy barrel, serial number 2721. Left side of Stoner 63A heavy machine gun.



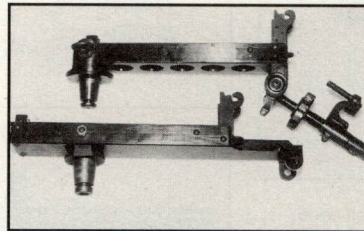
Stoner 63 serial number 234, left-hand belt-fed, heavy barrel, wooden forend, plastic furniture, 150-rd plastic box on a military M2 tripod. This has the correct cradle for the 63 which is different from the 63A top cover up.



Stoner Light machine gun bipod.

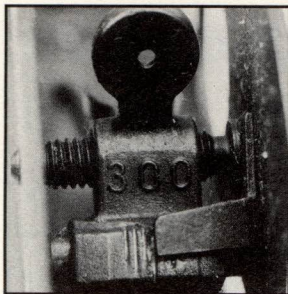


Dutch Stoner bipod.

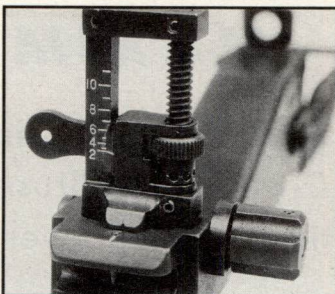


Top: Stoner 63 tripod adapter. Note the standard M2 pintle at the front position and the traverse and elevation mechanism. Bottom: Stoner 63A tripod adapter with special pintle. This one still uses the same T&E mechanism (Not shown).

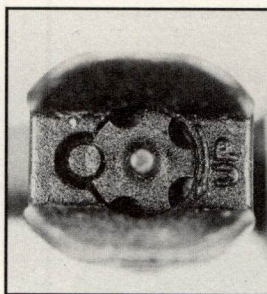
## Scopes and Sights



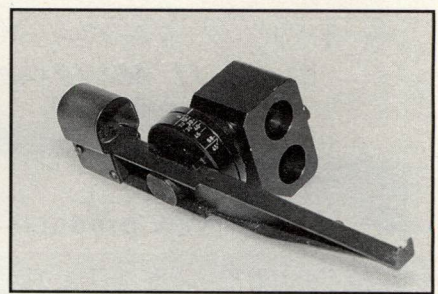
Standard Stoner Rifle rear sight.



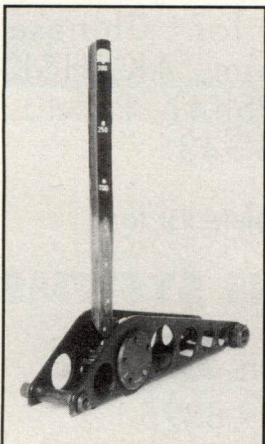
"Bren" type offset rear sight.



Front sight post—very similar to the AR-15/M16.



Dutch grenade launcher sight for the Stoner—mounted off to the side.



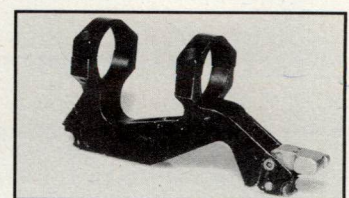
Experimental rear sight for grenade launcher (40 mm).



Quick-detachable Artillerie-Inrichtingen scope mount. Scope built in Holland.



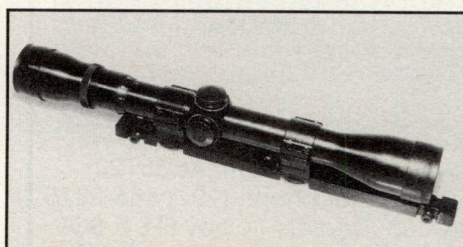
One of the Trijicon sights that was made for the test in Thailand.



Quick detach scope mount



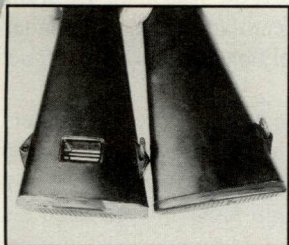
63A scope mount with Stanag rings, German scope.



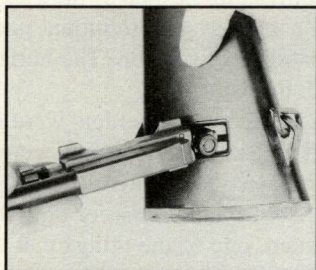
Early American-made scope, Weaver type mounts, variable power that used a rail that attached on the original 63s. This came from a police department, early vintage.



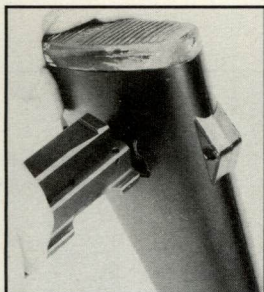
## Bolt Carrier Changing



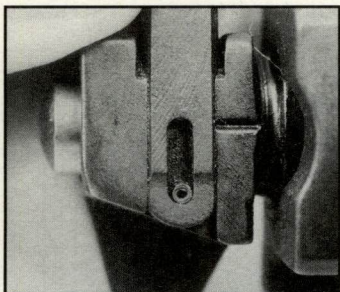
Left: Buttstock with bolt carrier tool built in. Right: Standard buttstock.



Bolt carrier cap is inserted into the buttstock well.

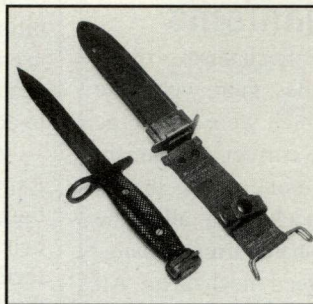


Pushing in depresses the firing pin as well as the other takedown button. Twist 180 degrees.

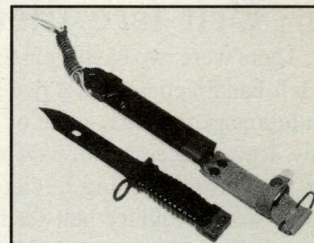


Bolt carrier cap showing firing pin at left.

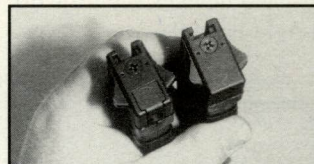
## Bayonets



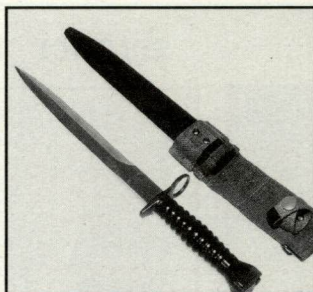
Standard M16 bayonet that was original issue for the Stoner 63.



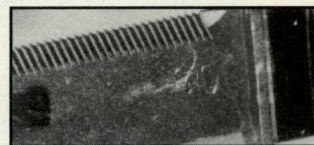
Dutch-built bayonet—there were two different versions.



Dutch Bayonets—Left version (early) has a little plunger that is removed and it was a sight adjustment tool. Later models did not. Both models also have a wire cutter on the sheath.



Sig built several hundred bayonets for the Stoner. They're very expensive and very rare. Bayonet collectors seek them very aggressively.



"Squirrel" mark on late Dutch bayonet.

### THOMPSON SMG M1/M1A1

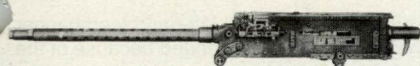


New, orig. Kerr style olive drab slings. With parkerized hardware, SHORTER than a standard Kerr sling. Orig. WWII issue not often seen in new cond. . . . \$25.00  
Standard Kerr slings, early WWII Kakai color, excellent to new. Issued for use with all Thompsons, M1 rifles, M1903's, etc. . . . \$10.00  
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BAR, new in wrap . . . \$9.95  
FAL, para alloy, 20 shot, exc. . . \$19.95  
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ZB-26 8mm, 40 shot . . . \$149.95

### BRITISH ANM2 Machine Gun Spares Set



These kits came from British guns used in RAF Scout and Bomber planes and are in .303 British caliber. These are the model with the hold-open style lock frame group and side-fire selector. Ideal for building dummy guns or spare parts for both British and U.S. guns. Can be used

Send \$5.00 minimum shipping. Office closed on Mondays, warehouse open Fridays 1-5.  
Hundreds more interesting and useful tools, gages, accessories, parts, and magazines in new Spring '96 Machine Gun catalog. Send \$5.00 for 1st class mail. Overseas customers send equivalent in own currency.

Everything in ad is original GI.

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### OWEN SMG



WWII Owen Dummy parts sets. These kits have original butt stock, barrel assembly, cocking handle and trigger housing assembly and come with a dummy receiver. The dummy receiver has rear sight, magazine well and mounting lug for the trigger housing. Rear of barrel must be removed to fit into dummy receiver. Receivers come ready to paint or finish to match parts. There are no bolts in the kits nor will the dummy receiver accept a bolt.

Parts set alone without dummy receiver. . . . \$189.95  
Have all three kinds of butt stocks and both styles of trigger housings. Add \$10.00 if you want a particular style.

as .303 conversion sets for U.S. guns in .30-06. Over the years many shooters have converted .303 guns to shoot 7.62 x 54R. Barrels are excellent with bright and shiny bores. Kits come with bolt, barrel and barrel extension, barrel muzzle bearing, lock frame, back plate, top cover, and small parts.

. . . . \$149.95  
Kit with special aircraft ring sight and post. . . \$189.95  
Kit with sights and aircraft cradle as used during WWII . . . \$249.95

### BRITISH MG ITEMS

"Box, Spare Parts and Tools Vickers, .303 INCH MG MkI" is what it says on the top of these well-made WWII wood boxes. Each box is about 9x15x7 inches with brass hardware and two leather handles. Set up to hold everything in fitted compartments. Ideal for display or to hold all your special tools and parts. Boxes are excellent to new. . . . \$59.95

Vickers long range front sight, clamps onto present front sight and new front sight slides from side to side—has new graduations left and right. New in canvas carrying case. . . . \$24.95  
BREN spare barrel cases, also fits a STEN MkII. Has outside compartments for lots of extra items, new. . . \$14.95

BREN full gun covers also covers mounted magazine. Covers complete gun and snaps on bottom, new. . . \$19.95

STEN sling, also fits Sterling SMG, new. . . . \$9.95  
BESA 7.92 mm broken shell removal tool . . . \$18.95  
BESA combo wrench. . . . \$15.95

### M3/M3A1 Grease Gun



#### Survival pac of needed spares

M3/M3A1 New G.I. sear, extractor, 4 recoil and 4 magazine catch springs. These will cure most problems of used guns. . . . \$24.95  
G.I. magazine springs. Get these to insure your pre-ban magazines stay usable, replace springs that have taken a "set" 5 for. . . . \$10.00  
For 5 springs and 5 followers . . . \$12.95

### MADSEN MG ITEMS

9 mm pouch holds 6. . . . \$24.95  
9 mm M1950 SMG barrel, unissued original. . \$65.00  
LMG tool and spare parts sets, 3 leather cases with broken shell extractor, various other tools, firing pins, hammer, more than 30 parts. . . . \$49.95



## Stoner 63 System Belt-feed Mechanisms

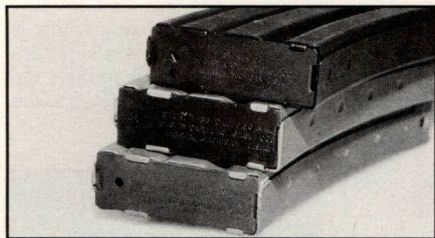
There were two basic belt-feed mechanisms: right- or left-hand feed. Of these two styles, there were nine evolutionary variants, some of which were prototype only. It was necessary to have the correct mechanism for the correct feeding device—none of the drums would work without a belt-feed mechanism; all of the drums utilized links, and the right-hand drum or hanger had to go with the appropriate feed mechanism. All left-hand devices should work together, the same for all right-hand devices.

## Boxes and Drums

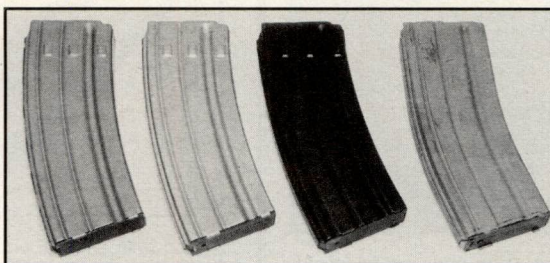
Belt-feed magazines would tilt the feed mechanism due to the ammunition weight offset to the side of the gun. That's the reason all the drums use a central hanger system to mount underneath and turn to get underneath the centerline of the gun. The horizontal box carriers are designed to accomplish the same thing.

At China Lake, many attempts were made to alleviate this problem. Experimental magazines and drums were all hand-made, trying to make bigger, better magazines. They made 200-round boxes for the right-hand belt feed and 200-round drums for both the right-hand and left-hand belt feed. In Vietnam, one of the things that was quite popular was utilizing the RPD drum, which was readily available. The Stoner quick-detachable, horizontal box-feed lever was attached to the RPD drum. They were rugged, made of steel, and there were tons of them.

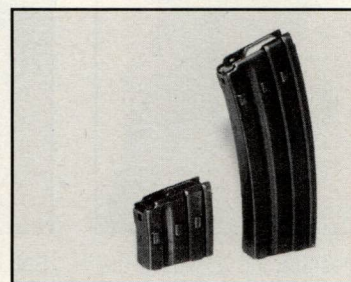
## Stoner Feed Devices



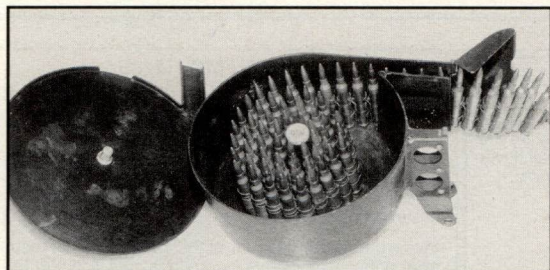
Top to bottom: Stoner 63 steel Warren, Michigan 30-rnd. magazine, Warren, Michigan aluminum 30 rnd. magazine, Costa Mesa steel 30-rnd. magazine.



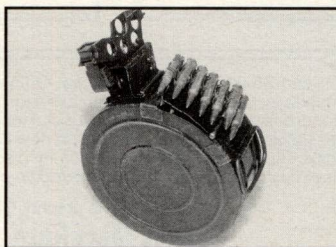
Left to right: Costa Mesa steel magazine, Warren, Michigan aluminum, Warren, Michigan steel magazine, standard 30 round M16 magazine.



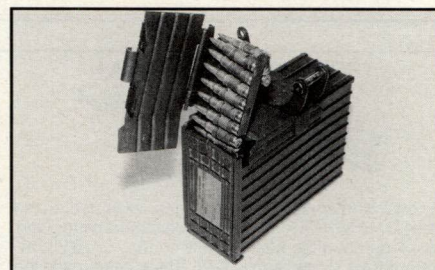
Stoner 63 5-round magazine. Compared to Stoner 30 rounder.



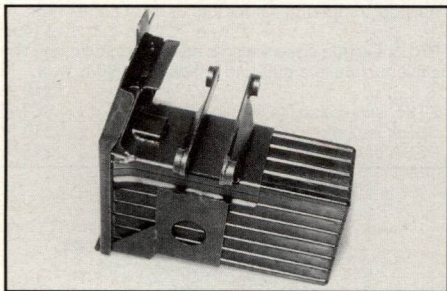
150 round left-hand feed Stoner 63 drum. (Ammo inverted in photo)



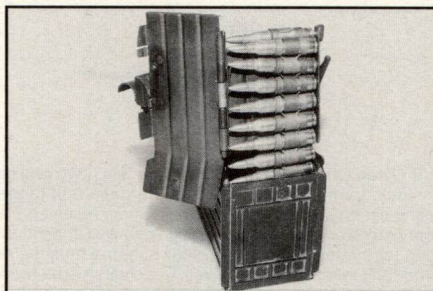
RPD drum modified to the Stoner quick-detach mount.



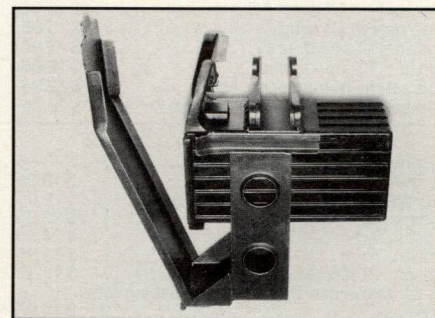
150 round box hanger.



100 round left-hand box feed.



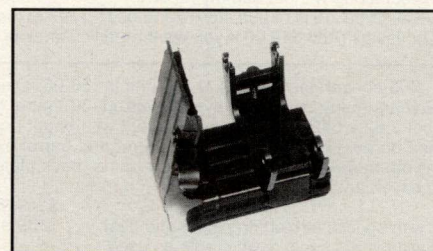
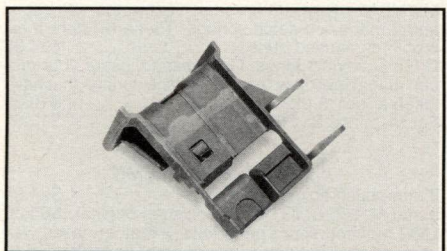
100 round box hanger.



Above: Experimental pinned type left-hand feed for either the 100-rd or the 150-rd. They both attach to the top of the box so that the box could either be 100- or 150-rd.

Left: An experimental left-hand feed hanger that is extended is extended because of the "spin back" problem.

Far Left: Quick-detach, Dutch-made experimental left-hand feeder.







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Non-corrosive, super accurate 55 grain FMJ ball ammo. South African Army issue, packed in 300-rd. sealed battle packs. Mod. No. AMA223.

**\$44.95** per battle pack of 300 rds., Fgt. collect.

## .308 Ball

Non-corrosive, high quality 7.62 NATO (.308 Win.) mil-spec ball ammo. 1980's manufacture. Packed in 200-rd. sealed battle packs, 5 battle packs per case. Mod. No. AMI308.

**\$135.00** per case of 1,000 rds., Fgt. collect.

## .30-06

Non-corrosive, boxer-primed, reloadable. New, 1995 European manufacture. Ideal for M1 Garands, '03 Springfields and B.A.R.s (Note: Overall length same as 8mm Mauser, so 8mm front spacer must be used with 1917 and 1919 Browning belt fed machine guns.)

Quantities limited; get it while you can. Mod. No. AMH306.

**\$200.00** lot of 1,000 rds., Fgt. collect. 20 or more cases **\$190.00** per lot of 1,000 rds., Fgt. collect.

## .50M2 BALL

Non-corrosive, boxer-primed U.S. manufacture .50 cal. for M2 Browning machine gun and .50 cal. sniper rifles. Remanufactured from unfired brass, not reloads. 100 linked rds. per ammo can, 2 cans per wired crate. Mod. No. AM50M2.

**\$1.98 rd.**, 1-99 rds., Fgt. collect. **\$1.80 rd.**, 100-999 rds., Fgt. collect. **\$1.70 rd.**, 1,000+ rds., Fgt. collect.

## .30 Mauser

Super clean, original .30 Mauser for Broomhandle pistols. Manufactured in Czechoslovakia by Sellier & Bellot. Packed 25 rds. per box. Last of the .30 Mauser - get it while you can. Mod. No. AMC30M.

**\$150.00** per lot of 1000 rds., Fgt. collect.

## 8MM KURZ FOR MP-44

7.92x33 Ammo for the MP44 "Sturmgewehr."

Manufactured at East German arsenals in the early 1960's. Mod. No. AMG79K.

Lot of 100 rds. **\$31.00** Fgt. collect. Lot of 500 rds. **\$150.00** Fgt. collect. Lot of 1000 rds. **\$300.00**, Fgt. collect.

## 7.62 Tokarev

High quality, Bulgarian manufacture military ball ammunition for Tokarev pistol, CZ-52 pistol and PPSH41 submachine gun. Mod. No. AMB30T.

**\$10.00** per lot of 100 rds., Fgt. collect.

**\$75.00** per lot of 1,000 rds., Fgt. collect.

## 7.62x54R

Super clean Bulgarian manufacture brass case military ball.

Packed 300 rds. per tin, four tins per case of 1200 rds. Mod. No. AMB54R.

**\$15.00** per lot 100 rds., Fgt. collect.

**\$155.00** per case of 1200 rds., Fgt. collect.

## ☆☆☆ BLANKS

**7.62x39 BLANKS** new, manufactured in Germany, Lot of 100 rds. Mod. No. AMBK39.

(Free AK-47 Blank Adapter with every case 7.62x39 Blanks!!!) . . . **\$10.00** Case of 1340 rds. . . . **\$90.00** Fgt. Collect.

**8MM MAUSER BLANKS** Wood Tip, Lot of 1000 rds. Mod. No. AMBK79. . . . . **\$100.00** Fgt. Collect.

**.303 BRITISH BLANKS** Crimped, Lot of 1000 rds. Mod. No. AMBK03. . . . . **\$100.00** Fgt. Collect.

**.50 M2 BLANKS** Crimped, blanks for the .50 Browning machine gun. Late 60's to early 80's F.N. Mfg.

Packed 150 rds. per ammo can. Mod. No. AMBK50. . . . .per can of 150 rds. **\$113.00** Fgt. Collect.



### TWIN M2 PEDESTAL MOUNT

These rare .50 cal. Browning M2 machine gun mounts are designed to support either two air-cooled or two water-cooled .50's. The mounts are complete with shield but are missing the sights. Just in from the Middle East, these units are painted desert tan. A must for the serious MG buff. Available without the shoulder harness.

**Blow Out Special: \$495.00 F.O.B. Martinsburg, WV**

**Terms:** All merchandise subject to prior sale. **Dealers:** Send copy of FFL signed in ink to purchase cartridge firearms (faxed FFL's not accepted). NJ dealers send SDL for purchase of all firearms. NY dealers send SDL for purchase of handguns. FFL holders on file with us may request a free catalog and will be put on our dealer flyer mailing list. **Non-dealers:** Send copy of drivers license and signed disclaimer stating that you are not a convicted felon and you are not breaking any local or state laws to purchase ammunition black powder firearms. **Payment:** COD Charge and Open Account orders \$35.00 minimum. Prepaid orders no minimum. Visa, MasterCard, and Discover Card accepted. Checks may be held to clear. MO and certified checks processed immediately. Please send or mention daytime phone number when ordering. COD orders cash only unless approved for company check. **Shipping and Handling:** Rifles: \$6.00 on first rifle, \$4.50 each additional. Handguns: \$4.50 on first handgun, \$3.50 each additional. All ammunition will be shipped freight COD (except for open account and charge orders). Ammunition cannot be shipped by Parcel Post or by Air, (UPS Blue Label, etc). Firearm shipments made to address on FFL only, ammunition shipments made to address on FFL or drivers license only. Please allow up to 2 weeks for delivery (varies with ship to location). **Returns:** Prior authorization must be made before returning merchandise. Return must include copy of invoice and statement listing problem with product and daytime phone number. Nondefective merchandise may be subject to 15% restocking fee. For return authorization by phone, call (201) 945-2500 and ask for Returns Dept. or by mail mark envelope "Attn: Returns Dept." Please allow 4-6 weeks for repairs and returns.

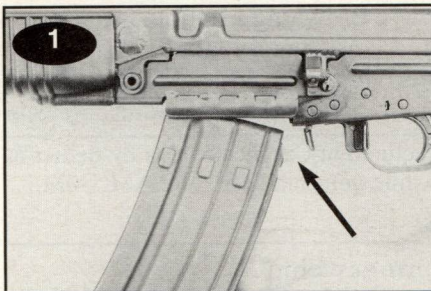




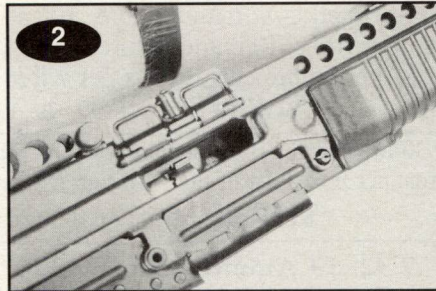
## Stoner 63A Disassembly



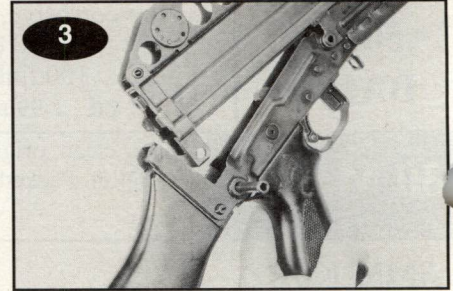
What would be considered a "Stoner 63A Complete system" clockwise from top left: 150-rd. ammunition box, 100-rd. ammo box, heavy machine gun barrel, aircraft machine gun barrel, short fluted machine gun barrel, "Bren" barrel, Stoner 63A serial number 3054, carbine barrel, forend, charging handle, bipod, bayonet, operator's manual for the belt-fed Stoner 63 and 5.56 mm Stoner 63A, cleaning rod with brass tip, stainless steel brush, cleaning brush, chamber brush, carbine buttstock, barrel bag and cleaning kit bag, receiver brush, sling, magazine pouch with two aluminum Warren, Michigan, 63 magazines, "Bren" light machine gun conversion unit, solenoid unit, the belt-feed mechanism, the Stoner 63A tripod adapter, rifle grenade, ammunition, 150-rd. drum, and two 100-rd. box magazines in the carrying pouch.



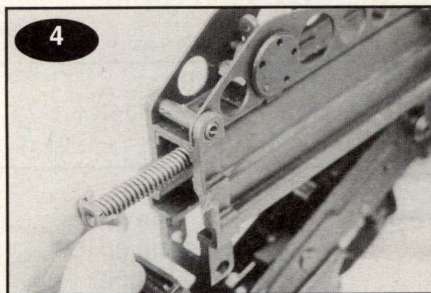
1 Point in a safe direction, remove the magazine. Note the lugs ground off of side to prevent use as an MG.



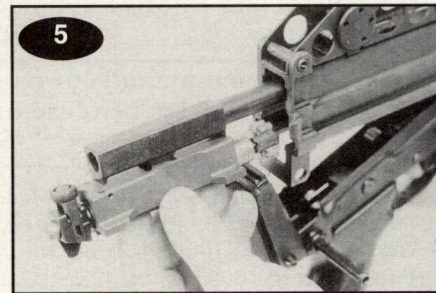
2 Pull the charging handle to the rear and inspect the chamber. Allow op rod to return to forward position.



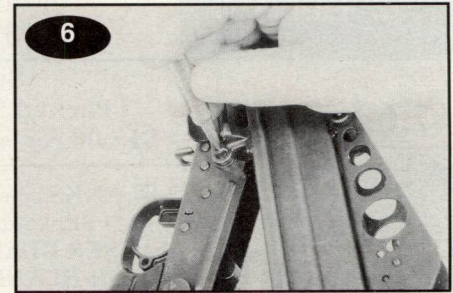
3 Push the takedown pin to the right and pivot upper forward.



4 Remove the driving spring assembly.



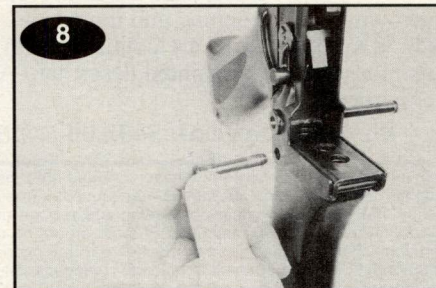
5 Remove the bolt carrier assembly.



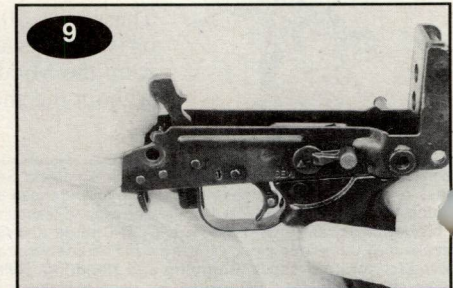
6 Remove front takedown pin.



7 Separate two groups.

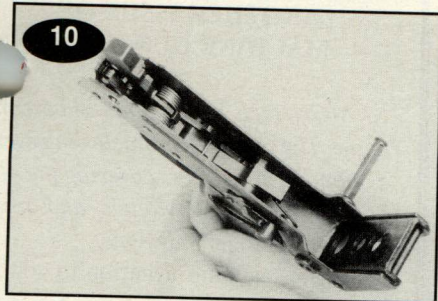


8 Remove buttstock pin, stock slides off.

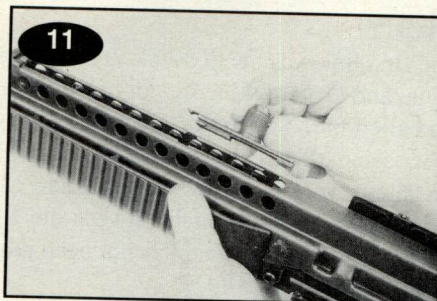


9 Stoner 63A trigger group, hammer forward.

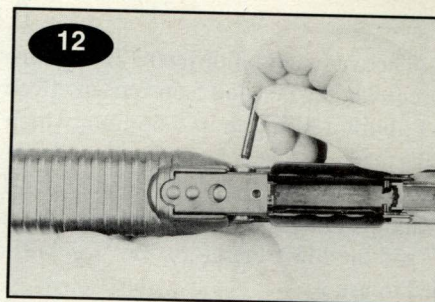




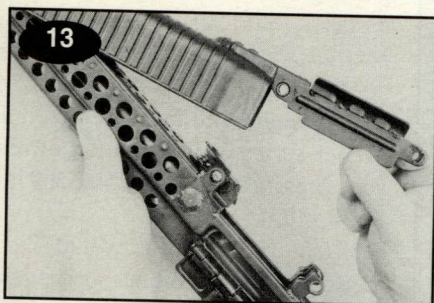
Internals of Stoner 63A trigger group.



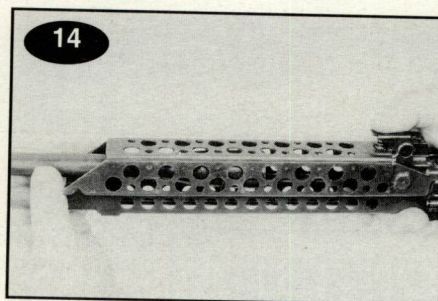
Cocking handle lifts out at rear position.



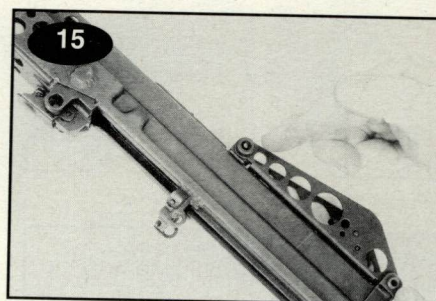
Remove forend takedown pin.



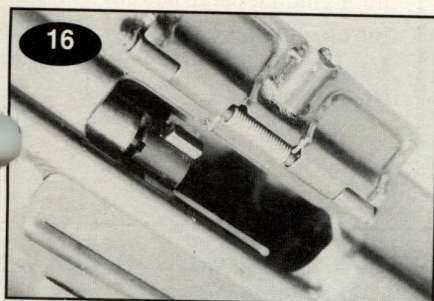
Forend with magazine guide is removed.



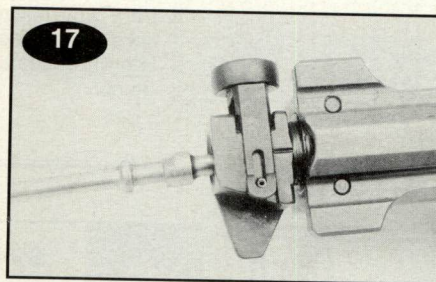
Depress barrel lever and remove barrel to the front.



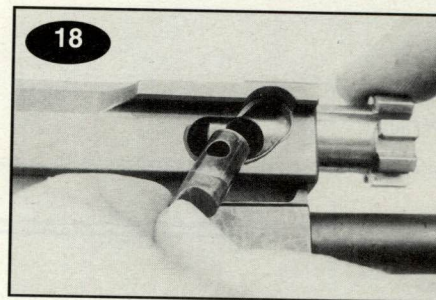
Remove front sight base pin to remove sight.



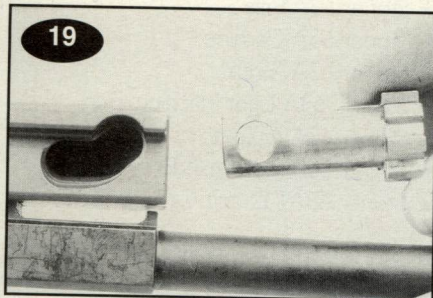
Detail of bolt and dust cover.



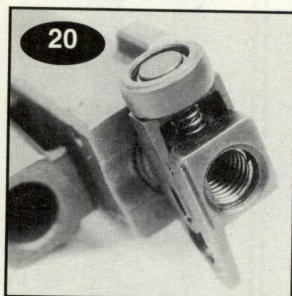
Firing pin is depressed, then the bolt carrier cap is rotated 90 degrees, and the firing pin is removed to the rear of bolt carrier.



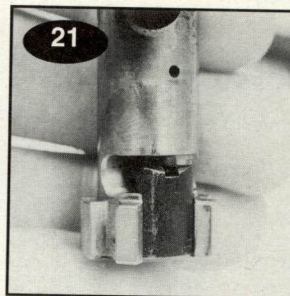
Cam pin is removed.



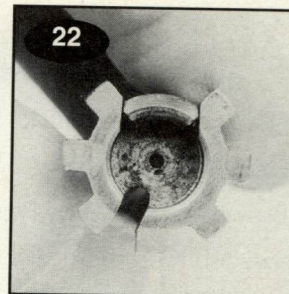
Bolt is removed forward.



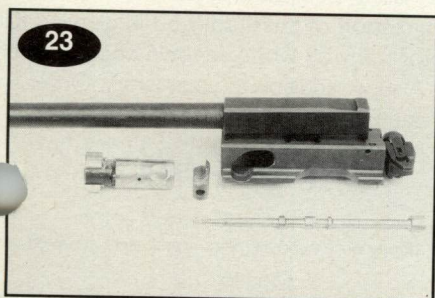
Bolt carrier cap in 90 degree position.



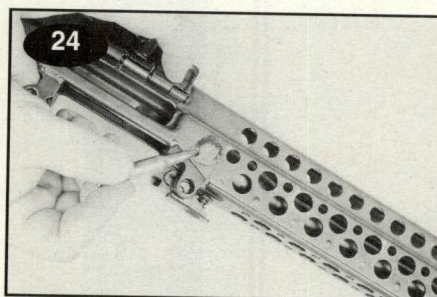
Extractor.



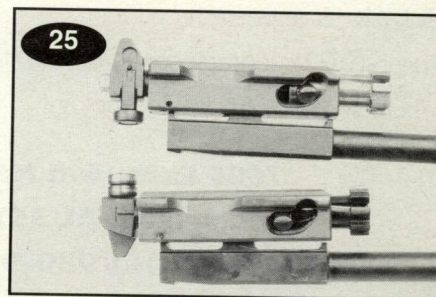
Bolt face.



Clockwise: Bolt carrier, firing pin, cam pin, bolt.



Note lugs are cut off.

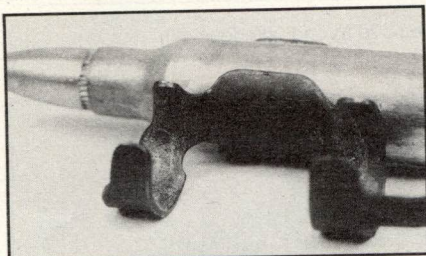


Stoner 63 bolt carrier on top, 63A on bottom. Bolt carrier caps are inverted for different uses.

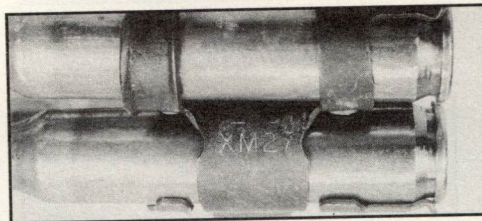


## Links

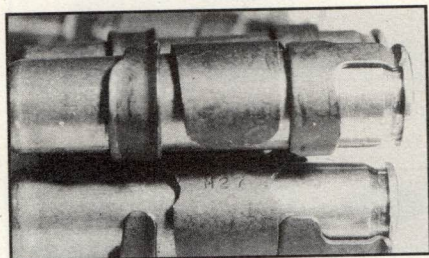
There are a lot of different Stoner links. The first link was the S63 link. It became apparent that the belt-fed 5.56 was an effective gun, and General Electric got involved in it. G.E. built a Minigun in 5.56 mm, which was called the "Six Pack." GE had their own links made, and kept changing the design. Stoner standardized on the XM-27 link, which is lighter than the S63, but the other belt-fed 5.56 mm guns moved towards the new M27 (Minimi) link. There is a change of about twelve-thousandths in pitch between the XM-27 and the M27; therefore, the M27 will not feed in a Stoner 63 that has not been modified to use it.



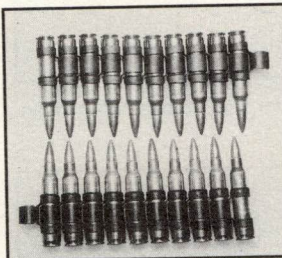
Original Stoner link, marked "S-63."



Later link marked "XM-27."



Minimi link marked "M-27."



Comparison of the pitch achieved by two types of links-top is XM-27, bottom M27.

This should illustrate why Minimi links will not feed into an unaltered Stoner.

## TO BE CONTINUED IN ANOTHER ISSUE OF MACHINE GUN NEWS

*MGN Tech Editor Dan Shea continues The Stoner Chronicles in several months, in chapters covering the AR-10 series, the Colt Models, and other of Eugene Stoner's designs.*

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 working with us to develop this series, Mr. Doug Olson for a guiding hand, and Mr. Jim Bonis for his outstanding photography, and Mr. Jerry Tarble for helping with some background.

MGN

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### Current Inventory

Heckler & Koch, MP5A2 by Vollmer	\$4,300
Heckler & Koch, MP5A3 by Vollmer	\$4,450
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Swedish K pre-86 dealer sample	\$2,000
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## STONER 63 MACHINE GUN POSTER

### STONER 63 Machine Gun Poster

- ★ Stoner M69W
- ★ Stoner 62
- ★ Stoner 63 Rifle
- ★ Stoner 63A Rifle
- ★ Stoner 63A Carbine
- ★ Stoner 63A "Bren"
- ★ Stoner 63A Light Machine Gun
- ★ Stoner 63A Aircraft
- ★ Stoner 63A Commando
- ★ Stoner 63AI Dutch Carbine

The Stoner 63 Machine Gun Poster that was included in this issue is available from the publisher. This 16" x 21" poster is suitable for framing and displaying in the home or office and comes to you rolled in a protective mailing tube. Each poster shows the fascinating progression of the Stoner 63 in detailed full color photography by world-renown photographer Jim Bonis. A super addition to your library. Order an additional one for yourself or a friend today!

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# Model "1" Sales, Inc.

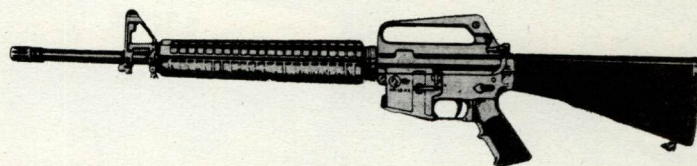


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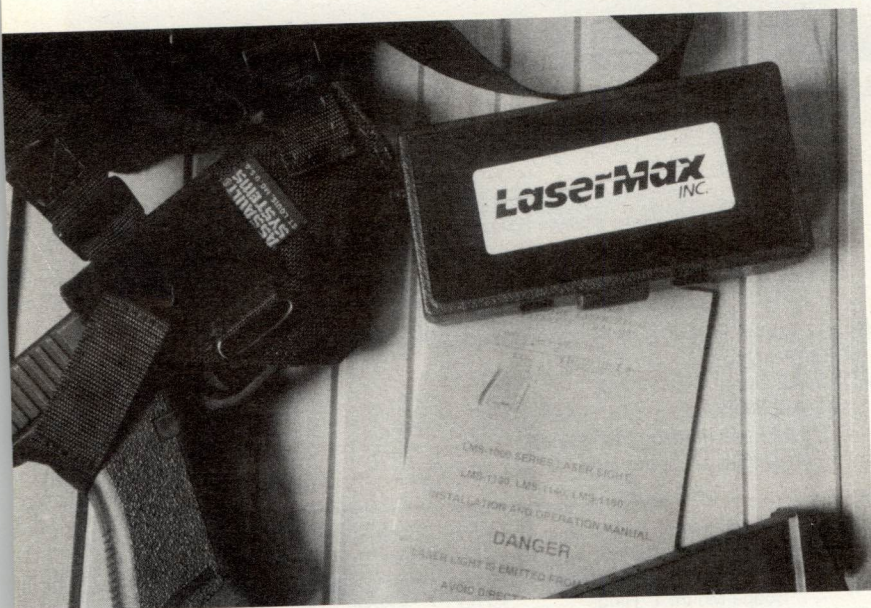


# LaserMax and the

# GLOCK 18

A laser target marker integrated  
in a submachine gun

by *ROBIE KULOKIVI*



## Background

Optronic target markers have been a constant field of challenge and development for the companies that produce sighting equipment for small arms.

The principle idea of the target marker is to illuminate the target at the point of aim. The target marker device is bore-sighted and adjusted to the firearm it is attached to. Thus, the center of the dot of light, projected on the target, is where the projectile impacts. This enables the operator of the firearm to very quickly engage his target, and to observe surroundings with a wide field of view unrestricted by the conventional sights of the weapon.

During 1980 some effort was put into parallel development of halogen lamp target markers and laser target markers. At that time, the device was bulky, being comparable in size to an optical telescope sight. With integrated power sources, weight was also a problem. Others used external belt-mounted battery packs that were not so convenient either.



No difference in external dimensions of the Glock 18 when the LaserMax LMS-1141 High Brightness target marker is installed.



**Left:** The laser output window is the only thing that externally differs from the standard spring guide.



**Right:** The trigger and trigger guard. Note that the lower frame is identified as 18 on the trigger guard.



The halogen version offers one advantage over the laser version: target identification in the dark. The halogen version produces white light and the light cone is wider than the intense laser dot and can be used as a torch to illuminate and identify targets.

However, toward the end of that decade, the electronics in laser construction and power supply saw tremendous development: size reduction and effect versus dimension of batteries being the two most important aspects.

There are two types of laser target markers: one emits visible light (wavelength 400 to 760 nanometers [nm]) and the other emits infrared (over 800nm), invisible to the human eye without the aid of a night vision device.

Today almost all current laser devices are very small and light. They also have other things in common.

1. They must be externally mounted on the weapon.

In a rifle- or shotgun-sized weapon, there is plenty of room to place such a device. The problem of ungainly bulk arises when the device is attached to a service pistol.

2. A remote external activating switch.

The cable and the pressure switch must be fastened to the weapon and offer yet more bulk and potential snagging of the weapon.

3. Impractical bore sighting.

The optical center of the device is relatively far from the middle axis of the bore. Impact versus dot placement varies annoyingly when firing at different distances. Technically, the rule of thumb might be that one should see the dot at point of aim when looking through the standard pistol sights.

Some pistol manufacturers have made trials with laser target markers that are integrated in the construction of the lower frame of the weapon. The only advantage they offer is that the wiring of the pressure switch is internal; the bigger dimensions of the normally small weapon still remain. There is, however, one product that complements the compact, service pistol-sized Austrian 9 x 19 mm Glock 18 submachine gun: the laser target maker accessory that can be integrated by the operator without factory or armorer services.

## The LaserMax Concept

To replace the service pistol spring guide with one that incorporates a laser device is a simple and good idea. But to actually produce a working unit must have taken in-

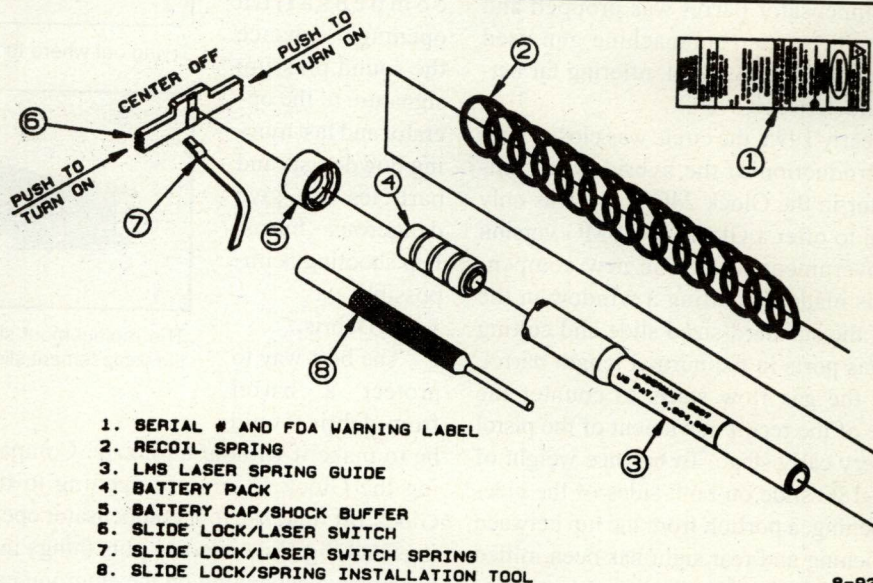
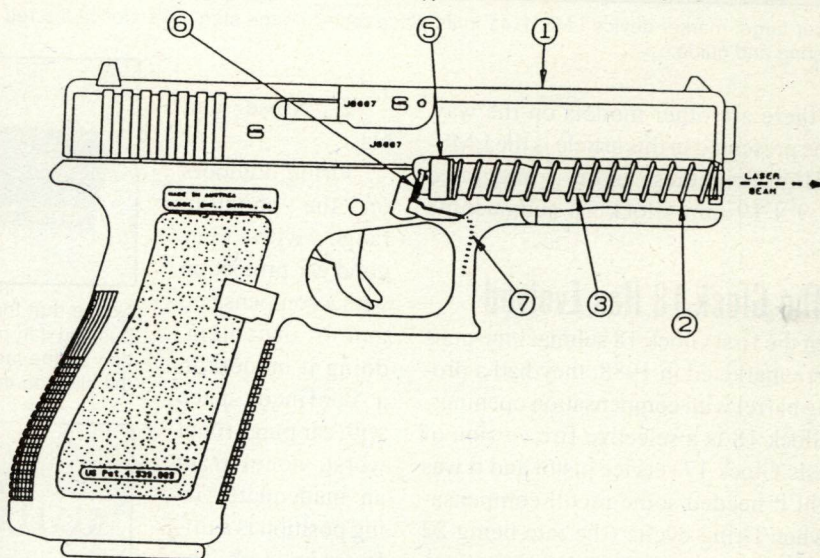
tensive engineering and economical effort. The patent drawing of the concept, used in marketing advertisements in late 1992, had the Glock pistol as a design platform. The battery was placed within the grip in the hollow behind the magazine. There were four variants of laser switches: a pressure switch on the front of the grip, one at the rear of the grip, one button at the place of the magazine catch, and one connected to the trigger safety. This early basic idea incorporated the important development: the spring guide laser target maker.

With the wiring, switches and battery

placement, the device would need factory fitting. I'm not aware if any were marketed with these features, but in late 1993, the device was refined to what is known today as the LaserMax LMS-1000 series laser sight. This production model incorporates the battery pack within the spring guide! And, no cables are needed as the slide lock works as the laser switch. The whole compact device can be fitted by the operator of the Glock pistol.

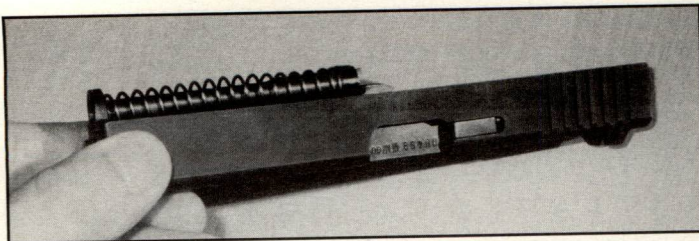
At the time of writing, there is a variant of the laser target marker for almost all Glock models. Apart from this basic plat-

# LaserMax INC. LMS-1000 SERIES SPRING GUIDE LASER SIGHT US PATENT # 4,934,086



8-93





The laser target marker device LMS-1141 in its place replacing the standard spring and guide.

form, there are other models on the way. The one presented in this article is the LMS-1141 High Brightness and it is integrated in the 9 x 19 mm Glock 18 submachine gun.

## The Glock 18 Has Evolved

When the first Glock 18 submachine guns were marketed in 1988, they had a protruding barrel with compensation openings. The Glock 18 is a selective fire version of the basic Glock 17 service pistol and it was thought it needed some recoil compensation when firing cyclic (the rate being 22 cartridges per second). From 1989 forward, the compensator barrel was dropped and the small Austrian submachine gun used the standard length barrel, offering far better characteristics overall.

In early 1995, the circle was closed with the introduction of the hybrid-type compensator in the Glock 24C and it was only natural to offer a Glock 18C SMG version for government sales. The new compensator is made by cutting a window in the top of the standard-sized slide and cutting four gas ports in the normal length barrel. Thus, the gas flow starts to counter the torque of the recoil movement of the pistol at a very early stage. To balance weight of the G-18C slide on both sides of the ejector opening, a portion from the top between the opening and rear sight has been milled off. Surprisingly, there is only the standard number 18 model marking on the left side of the slide, not 18C as one would expect. Some gunsmiths have offered this type of recoil compensation as custom jobs on Glock pistols.

Undoubtedly the feature offers stabilization of the weapon during firing to the sportsman and the professional user alike. Viewed from the special duty applications some things might be compromised.

1. Structural strength of the Glock 18C slide.

One of the many good user safety details in Glock weapons is the solid slide construction. A dangerous barrel rupture is well contained within the solid slide model.

2. Noise and blast.

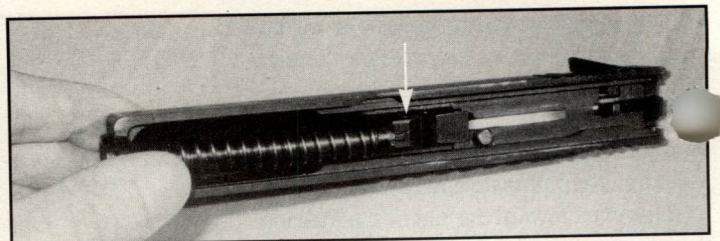
Firing outdoors on the shooting range with very good ear protection with a compensated gun is one thing, doing it indoors in a confined space with ear plugs (or at worst; none) from an inadequate firing position is a different ballpark. The compensation openings enhance the sound pressure signature to the operator and fast moving powder gas and particles can give dangerous burns. Hip shooting is impossible.

3. Debris.

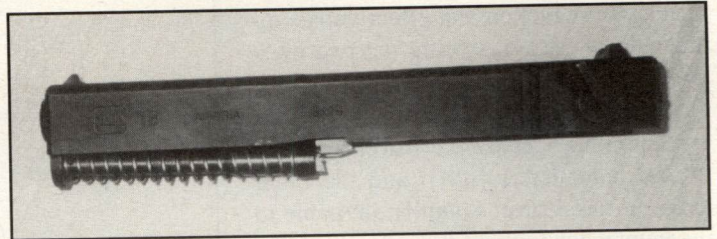
The best way to protect a barrel from debris would be to make it without a muzzle. Comparing the Glock 18 muzzle opening to the Glock 18C muzzle, four compensator openings and big slide window puts things into perspective depending on the environment, of course.

All things balanced, the procurer makes the decision to purchase based on the application. And what would be easier to market parallel to this interesting new Glock than the LaserMax target marker. Both are certainly high tech.

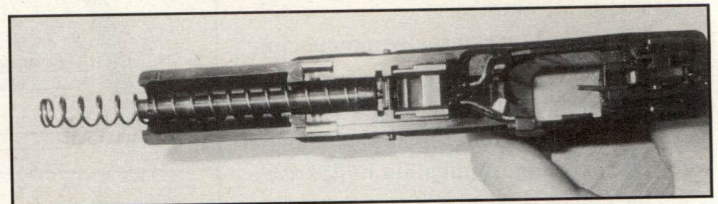
Perhaps there will come a day when Glock offers, as an accessory to the Glock 18 line of weapons, a selector that restricts the length of the full automatic cycle. The burst length could be either two or four cartridges per pull of the trigger in the cyclic mode. And who would not like to see an SMG version of the ultra compact Glock 26 pistol.



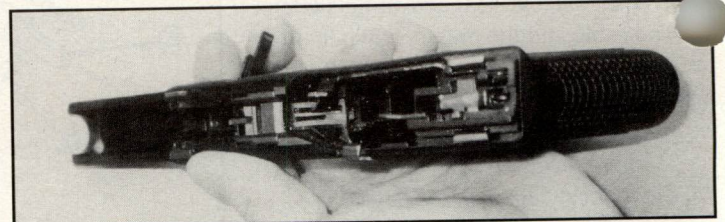
Notice the red lining marks at the rear of the LaserMax.



Notice that the LMS-1141 is not fully pushed in place at the rear. When pushing it in place, keep the front of the weapon pointing in a safe direction as the laser beam is activated. The best way to close it is to place the slide on the lower frame.



Trying out where the LaserMax houses in the lower frame.



The replacement slide lock is inserted from the side, and while pushing the replacement slide lock pin down, it is placed in the middle position.

## Successful Integration

The success starts with ease of installation. The LaserMax unit comes with an accessory tool: a 2 mm driving pin. (I recall Glock advertising this tool as "the complete Glock armorer's kit" some years ago.) Following the steps shown in the LMS-1000 users manual, the installation is done safely and in the right order. One essentially removes the original slide lock and slide lock spring, replacing them with the same parts from the laser unit package. The upper side of the new spring has a notch and the lower part of the slightly prolonged slide lock has two dents that facilitate the correct side way movement when using it to activate the laser. The part is slightly longer because it has red insertions at both ends that become visible to the operator when the switch is pushed in the on position, to either side. The original Glock spring and

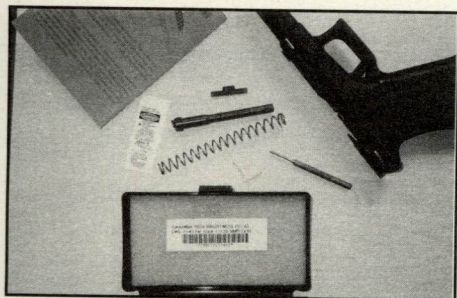


spring guide is, of course, replaced with the laser target marker and the accessory spring. The original Glock spring does not have the laser guide rod. The original Glock spring is very practically captured on the guide and the LaserMax spring is of the freely extending type. I believe here is one thing that could be developed for future units.

If desired, it is possible to use a LaserMax slide lock with the standard Glock recoil spring. Thus, one does not have to replace the parts in the frame if one wants to place the laser target marker in storage for some reason.

One should note that when assembling the laser spring guide, the battery cap and the recoil spring, all the red markings on these parts will be aligned. This is because of the factory bore sighting of the laser diode and to give consistency from shot to shot. The tapered rear of the recoil spring fits very snugly on the rear shaft of the laser spring guide so that it won't rotate during firing. Technically, if one would rotate the spring 180 degrees, the point of impact slightly changes.

When installing the complete laser spring guide in the slide, one should note that the guide should point in a safe direction. When the rear of the spring guide is placed in its



The LaserMax package contains these items. The version is the High Brightness unit which offers better use in sunshine and bright lights.

correct place in front of the barrel lug, the circuit is closed and the sight will be activated projecting its pulsating laser dot. This stops as soon as the slide is replaced on the frame. The power of the laser beam is some 3 mW (milliwatt) and direct eye exposure should be avoided.

The neat box this laser unit is packed in is of course a good place to store the removed Glock parts and the accessory tool. After easily installing the LMS-1141 High Brightness unit in the 9 x 19 mm Glock 18 submachine gun, it was time for trial of the system at the local shooting range.

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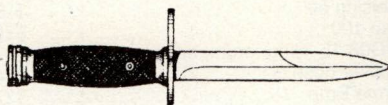
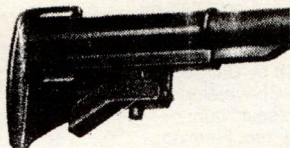
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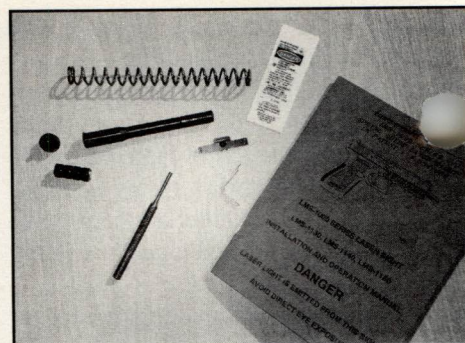


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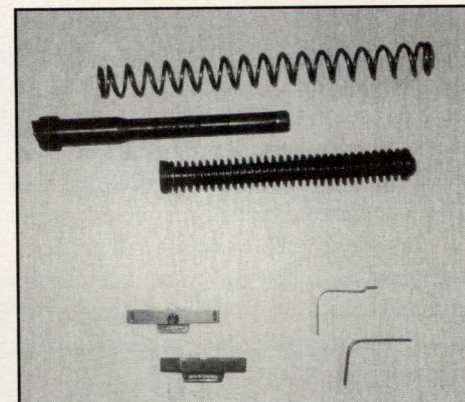
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The LaserMax LMS 1141 disassembled. Notice that apart from containing the necessary electronics needed for the laser, there is room to fit a package with four batteries within the guide rod!



Comparing the original Glock parts to the LaserMax replacement parts. From the top: Laser spring and laser spring guide, Glock self-contained spring guide, LaserMax slide lock and spring, and the Glock slide lock and spring.



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## The Advantage in Use

Much criticism has been given on the performance of laser target markers by the actual users. Apart from the fact that they make the sidearm cumbersome, there is the matter of seeing the projected dot. Bright sunlight outdoors makes the dot almost invisible. I have tested the LMS-1141 in winter and summer environments against different backgrounds. The shortest distance of practical use was during bright sunlight with the dot projected on snow, the dot became invisible to my eyes at a distance of ten meters.

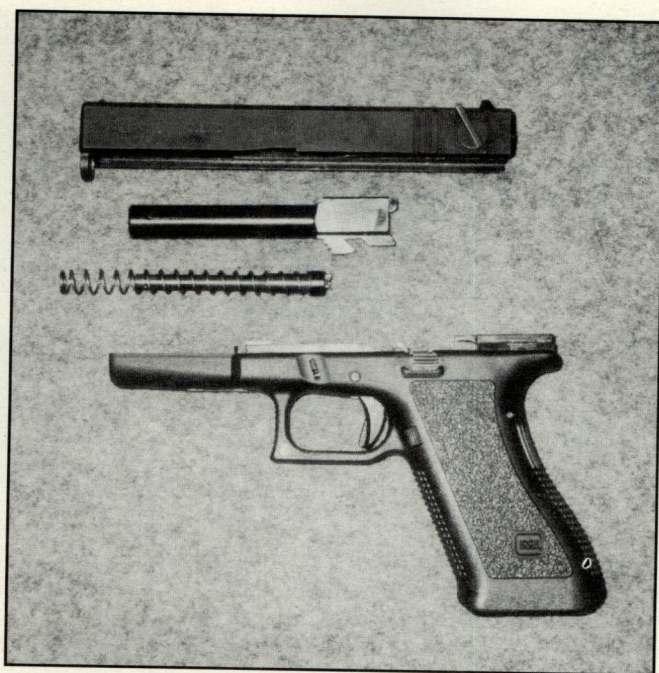
The oddest sensation of use was in light snow fall or early morning mist. The beam was in full view all the way from the weapon to the target and also visible from the side. In all other conditions, the dot was clearly visible. The pulsation, with a cycle of circa 10 pulses per second, helps to find the dot when firing the SMG from hip level as eyes are sensitive to movement. But when using a more normal stance, when quickly pointing the weapon, lifting the gun to the line of sight, the dot is immediately found.

The light conditions indoors, if there



are overhead lights, are never too bright for the use of the laser target marker; it is usually the other way around. It can be too dark indoors if no artificial light is available. The dot cannot be used to identify targets as it illuminates a very small part of the target. And it has never been intended for that use. The width of the dot at ten meters is 10 mm wide and 30 mm tall. The other hazards of indoor use are the reflective surfaces which momentarily can give a multitude of dots.

Comparing the LMS-1141 "high brightness" unit dot visibility with other brands of previous generation target markers, it certainly surpasses them in effect when light conditions are very bright. The form of the dot is round, and the opening angle of the laser beam is wide enough to facilitate visibility of the dot at a distance. When contemplating which to purchase—the high brightness or the standard



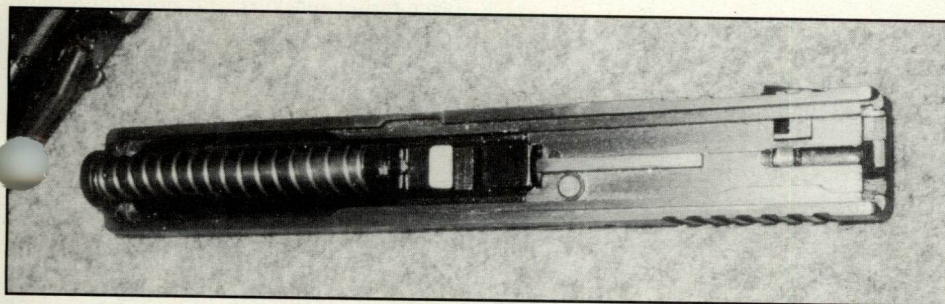
The Glock 18 SMG with the LMS-1141 laser target marker disassembled for maintenance.

brightness—I would suggest the high brightness if the unit is meant for service use because the use of this LMS-1141 version is not restricted to low light conditions.

When firing the Glock 18 in the semi-automatic mode, with the integrated laser target marker, at paper targets from dis-



The LMS-1141 assembled in the slide seen from the front.



The underside of the Glock 18 slide with the LaserMax in place.

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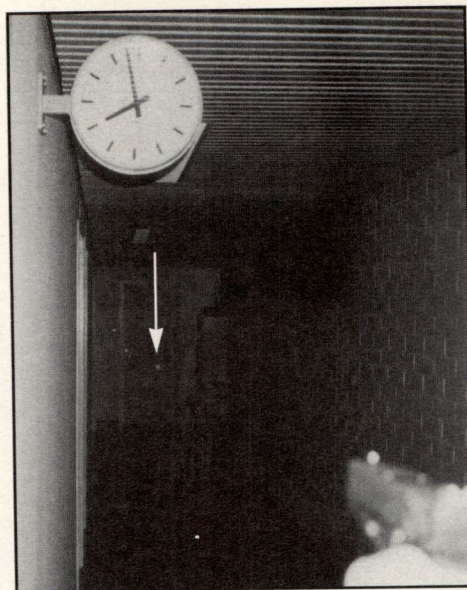
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tances up to thirty meters, all hits were within the laser dot. Using the sight of the gun and the laser simultaneously, the dot is projected exactly on point of aim. Firing the Glock 18 with four-five cartridge bursts from waist level with eyes and dot on target certainly helps instinctive pointing and correcting of aim. Especially when firing from awkward positions. The cyclic cadence of the Glock 18 is some 22 cartridges per second and I am sure it puts the LaserMax construction under test. The heat generated during extended exercise firing rises to high temperatures in short intervals. This must certainly be hard on the inner electronics and especially the batteries. The batteries have a maximum functioning temperature of +60 degrees C. Sadly, I have not yet had the opportunity to get instruments for reliably measuring the temperature directly after, or during continuous fire. However, the amount of fired cartridges within a short time is small, during actual combat use of the laser target marker.

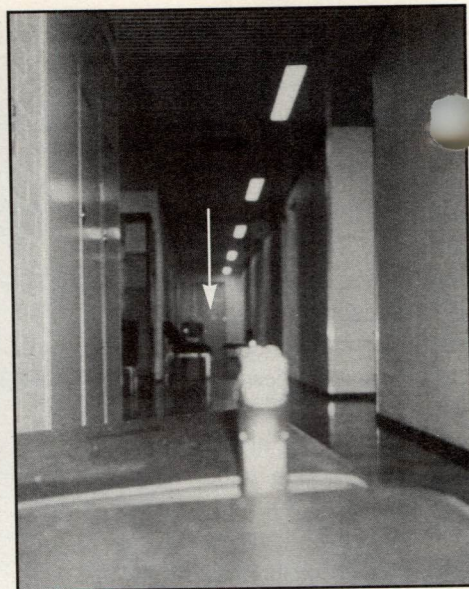
The battery set included consists of four 1.5 V silver oxide cell batteries in series. The minimum voltage should be 6 V from four connected type 392 or 393 batteries. These are available from stores that have a slightly larger variety of batteries for sale. The battery pack the operator has reserved for service will probably lose voltage from lack of use over time, because when used effectively the target marker is not on for long periods. The battery pack used for



Sighting indoors at a distance of fifteen meters. A little light is needed for positive target identification.

instantly seen by the opponent if he faces the operator, but by then it is too late for him to aggressively respond.

When used by police officers in real documented combat situations, one can notice an important detail. During arrest of suspects in a potentially dangerous situation, the use of the laser target marker has let to immediate compliance of the suspect, without further resistance. This has happened instantly when the laser dot has been seen by the suspect, projected on his own body, without the officer having to fire a single shot.

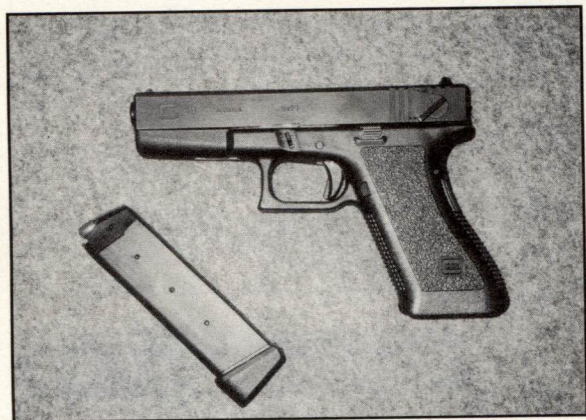


The laser dot projected on a door at a range of twenty-five meters as viewed from behind the gun.

newest Beretta model will be tested in the 9 x 19 mm Beretta M93R submachine gun.

Looking to the future of this interesting LaserMax integrated laser sight, one could hope for a model with a selector for visible and infrared light. Something like pushing the activator to the left for IR and to the right for visible. And of course going yet further, a model that is integrated with the axis of the bore with a laser beam bent exactly according to the bullet trajectory.

I believe that departments and offices that have tested various earlier models of



## The LaserMax LMS-1000 laser sight can be installed in the Austrian 9x19 mm Glock SMG easily without factory or armorer services.

training, if the laser is kept constantly activated, will function for several hours depending on surrounding temperature.

The correct way to use this type of visible light laser target marker is to switch it on only when the target is visually observed. In a two-hand hold, it is easy to press the activator with the thumb of the supporting hand. If the target moves out of sight, then the laser is switched off with the trigger finger. The light emitted from the gun is

### What next?

The company producing this small unit has expanded the line of models available so that LMS 1000 can be installed in the S&W Sigma series, SIG line of service pistols and for the Beretta 92/96 series. The owners of H&K USP, Colt Governmental types and Ruger service pistols will have a chance to purchase a model for their own handgun in the near future. It is obvious that the

laser target markers and not found them fulfilling set criteria, would do wisely to invest in this new product for new conclusions.

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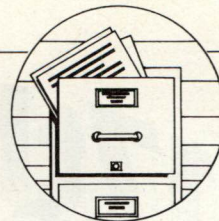


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# The Forms

by Dan Shea



*There are some real "shake-em-ups" going on right now. This month we have information on the partial collapse of the import "magazine ban," the AMAZING transcript of an ATF training session that led to the re-assignment of the Chief of NFA Branch, round-the-corner firearms import bans by the Clintonistas, new importer procedures that have just been identified, as well as a "watch your activities" warning to target shooters. Put on your thinking caps, and start analyzing the implications of the following. I'll be back with more depth next month. — Dan*

Perhaps the first and most important item that we need to address is the recent rumor about a high ranking official in the ATF "impeaching" the National Firearms Registry. All kinds of rumors are flying around, from the ATF having to have an "amnesty" to all court cases against unregistered machine gun owners being dropped—retroactively.

None of the above is true. However, there have been some real INTERESTING happenings lately. Several weeks ago, MGN received a copy of the document that is causing all the furor. It is a transcript of a "roll call" address to the ATF at headquarters in Washington D.C. Attorney James Jeffries obtained the transcript through the Freedom of Information Act. The "roll call" in question occurred on 18 October of 1995 and was done by the former Chief of NFA Branch Mr. Thomas Busey. Jeffries filed his FOI request on 7 November 1995 and received his transcript around the first of March 1996. (Jim Jeffries specializes in Firearms law, and can be reached at 910-282-6024.)

The "roll call" is a training session that the ATF utilizes to further the education of its agents. A person will be chosen to address the headquarters group, and it is sent by video over closed circuit television. Our sources had told us of this video, and we had been eagerly awaiting a look at the contents. Attorney Jeffries was kind enough to send us a copy as soon as he got it.

*Several quick notes before we start—Gary Schaible, a long-time specialist and former Chief of the National Firearms Act*

*Branch, is custodian of the NFA Registry. He submitted a list of corrections to the "roll call" in question, and his responses to Mr. Busey's comments are included after the pertinent sections. About the effects of this transcript, the reason it is important is that the Registry is used in federal prosecutions of persons suspected of not paying the "making" or "transfer" tax required on the NFA weapons. In many respects, it is similar to fingerprinting: On the day that the courts discover two people with identical fingerprints, the validity of fingerprinting as evidence in a court of law is "impeached." The National Firearms Act Registry, hereafter referred to as the NFRTR—National Firearms Registration and Transfer Record, is used much in the same way. If you have possession of a firearm, i.e., machine gun, silencer, destructive device, short shotgun, etc., and the NFA Branch cannot find any record of it in the NFRTR, and you can not show proof of paying the tax or being "exempt but complying" (Form 1, 2, 3, 4, 5, 6), then the courts will convict you of not paying the tax, which is a felony. This is contingent on the NFRTR being considered, for all intents and purposes, 100 percent accurate. There are a lot of people in jail, with ruined lives and businesses, based on the assumption that because there was no record of their firearm in the NFRTR, they had broken the law. There are also a lot of people in jail who had broken the law and the testimony of the ATF was key to this. The burden of proof in these cases and the key to gaining a conviction is on the U.S. Attorney, and the NFRTR, along with the testimony of the ATF agents.*

There are many interesting sections of this address. I only have space to touch on the ones that are starting the rumor mill going. Here are the actual words.

Tom Busey, page 9, line 2: "Let me say that when we testify in court, we testify that the data base is 100 percent accurate. That's what we testify to, and we will always testify to that. As you probably well know, that may not be 100 percent true. If our data base was absolutely error free, we could simply run the name of the individual and his first name and if it didn't come

up, we could guarantee that that individual doesn't have a Title 2 weapon registered to him.

"But since in the entry part of this game, people invert letters and vowels, you could put the name in, it won't come up that way"

Gary Schaible in ATF correction: "Mr. Busey's statement that NFA specialists testify that the data base is 100 percent accurate was a misstatement of the facts. I have never testified that the data base is 100 percent accurate nor, to the best of my knowledge, has any of the other NFA Branch personnel, including Mr. Busey."

*MGN's question: Has anyone ever asked the NFA Specialists while they were on the stand, under oath, what percent of accuracy the NFRTR database does have?*

Tom Busey, pages 17-18, line 16-22, 1-9: "Equal to it, of course [re: A task of importance previously mentioned—Editor] is maintaining the accuracy of the data base to begin with.

"If the information that's in the data base is not accurate, it doesn't make any difference how good of a search we do, it'll come out wrong.

"So the information on the 728,000 weapons that are in the data base has to be 100 percent accurate. Like I told you before, we testify in court and, of course, our certifications testify to that too, when we're not physically there to testify, that we are 100 percent accurate.

"But we have found instances in our records where names have been misspelled, they've been inverted; vowels i-e have been changed; and of course, computer programs only pull up what you put in.

"We've made monumental strides in correcting this. A major correction event took place in 1986."

Gary Schaible in ATF correction: "Mr. Busey's inference that the integrity of the NFRTR is dependent on the data base being 100 percent accurate is erroneous. By using a variety of search techniques, evidence of nonregistration introduced at a criminal trial is reliable beyond a reasonable doubt."

*MGN's questions: Are we discussing*



inaccuracies that are simply related to misspellings or transposing numbers? Or is it a bigger problem: are there a lot of missing records? What, exactly, was this "major correction event" that took place in 1986? What about people who were prosecuted before then. Was there testimony that the NFRTR was 100 percent accurate at that point? Do the agents who testify certify that they simply have no record of a firearm or transaction in the NFRTR, or do they testify that the NFRTR is 100 percent accurate, and if they do not have a record then the defendant is undeniably guilty of not paying the appropriate tax? Once again, what are the details of the "major correction event" in 1986? I want to know more about THAT one.

Tom Busey, page 19, lines 4-10: "This quality review team, when I first came in a year ago, our error rate was between 49 and 50 percent, so you can imagine what the accuracy of the NFRTR could be, if your error rate's 49-50 percent. The error rate now is down to below 8 per cent, and that's total. That's common errors and critical errors."

Gary Schaible in ATF correction: "The inference to an error rate of 49-50 percent is based on an informal, undocumented estimate by personnel from the Firearms and Explosives Regulatory Division. It is unknown how the error rate was calculated. As Mr. Busey stated, the estimate resulted in a number of changes in the NFA Branch to improve data entry and the procedures for performing a search of the NFRTR. The Quality Review Team, a group of Firearms and Explosives Regulatory Division employees who review data entry into the NFRTR, was formed, in part, as a response to estimated error rate."

MGN's questions: **"HOLY MAXIM-GUN, BATMAN! 50 PERCENT???"** Wait just a minute here. I had known the NFRTR was off, and proved it to myself many times. I know Class 2 manufacturers who have had compliance inspections where the printout from NFA Branch was off by 40 percent, documented with names, dates and places. What's going on here? What is an "informal, undocumented estimate" that could inspire a complete change in the methodology used in this department? Were the ATF personnel who did this estimate competent and accurate? Contrary to some current public assumptions, there are a lot of professional and very intelligent people at ATF. I come

into contact with them all the time. What do these folks think of this situation??? I really want to know.

My personal opinion, dear readers, is that it's time for the NFA Branch to 'fess up; it's time to do some housekeeping. Let's get this Registry straightened out. How many field agents get erroneous information? Have there been any Waco's or Ruby Ridge's caused by something like this? Is there anyone in jail who was convicted on inaccurate recordkeeping? I think we need to investigate further. A copy of this article is being sent to the current Chief of NFA Branch. I am hereby publicly requesting that the ATF form a joint industry/ agency group to investigate the solutions to this situation. Since this is protected taxpayer information, it is not possible for anyone other than the tax collectors to see that actual information in the NFRTR (IRS Code 6103). The only possible path here is to have a meeting to see what procedures are going to be used to straighten this situation out. Start thinking about who you want on this committee, guys, I want the names of volunteers who you RKI's think can represent the interests of the industry and the NFA owners.

Copies of the complete Busey transcript are available from MGN for a \$5 copying and mailing fee, or on our website at <http://www.machinegunnews.com>.

**FOR OUR NEXT EXCITING DEATH-DEFYING FEAT, your intrepid reporter will stick his entire head right into the middle of the Clintonista's backdoor gun ban....**

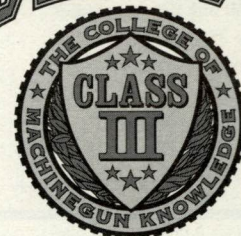
The FAIR Trade Group (Fire Arms Importers Roundtable, PO Box 1474, Vienna VA 22183, phone 703-242-9484, fax-9485) sent a letter out to the industry on 14 February 1995. In essence, what the Clinton's have instructed the State Department to do, is go to other countries around the world, and make a deal so that they will not ship firearms or ammunition to the citizens of the United States. The first country in question has been Russia, of all places. It works kind of like this "You (Russia) sell guns and ammo to importers in the U.S., and we shut off all aid to you. You only let them have antique firearms, and we'll give you money." The Executive powers enable the President to direct the office of the U.S. Trade Representative (USTR) to engage in "Voluntary Restraint Agreements" (VRA) prohibiting

## T-SHIRTS WITH AN ATTITUDE!



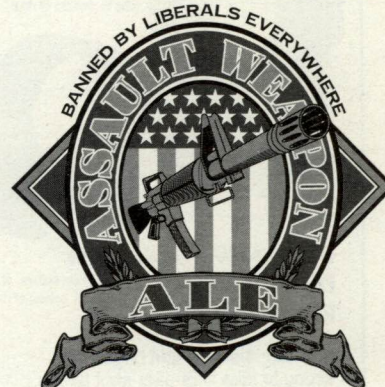
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what ever they want to. That is the theory. The fact is that VRAs are supposed to be used for protecting domestic producers (subsidized foreign companies cutting U.S. prices, etc.). They have a list of firearms that are "OK," which includes Mauser 1896 pistols, Nagant revolvers, British Enfields, 98k Mausers, Winchester 1896 (Russian), etc.

In a press release, Craig Dowd, the Executive Director of FAIR, said this: "Unacceptable firearms, according to the Administration material, are any firearms that "would be attractive to criminals." Administration officials told us that the FBI, the Department of Justice and the ATF determine, more or less, which guns are not importable by deciding which guns would be attractive to criminals. These judgments really defy logic. They are based on pure speculation. There is certainly no data that we are aware of that the Russian guns that were imported in 1993 and 1994 present a major source of crime guns."

Well, they defy logic if you try to apply logic. The fact is that there are a group of people in charge of this country right now, who don't care one whit for the Constitution, nor for any laws that are existing. If they have an agenda, and they do, they merely find a way around everything and start instructing the various government agencies in what to do. It is unfortunate that some of the nonelected public servants are going along with it.

This is the only way that the Clintonista's can stop the flow of guns, ammunition, and parts. They are presently going around to other countries to exert the same pressures. Keep your eye on the ball with this one. I know importers who are already facing official "Stonewalling" on their export permits in other countries. Could the word be out that the Clinton crowd will cut you a check if you don't sell to U.S. companies?

### OTHER NEWS ON THE IMPORT FRONT: MAGAZINES

Many of us have been hammering away at the "ban" on importing high capacity magazines. The only ban that was voted into law was a ban on further MANUFACTURE of these "Large Capacity Magazines" after 13 September, 1994. ATF wrote the CFR to say "and imported" after that date. Import groups, Second Amendment Rights groups, and lawyers on this side started to attack that immediately.

If a statute is clear on the face of it, it can not be "interpreted." That is law. Now five Congressmen immediately sent a letter to ATF that the "ban" was only on manufacture, not importation, but the ATF has treated it as import since the law was signed.

That all just went out the window. If a magazine was manufactured before 13 September, 1994, it may now be imported into the United States for unrestricted resale to individuals. The devil is in the details, as usual. Importers will be required to provide certification that this is, in fact, the case, using a "certificate of origin" the ATF finds acceptable. This can be original invoices from the original manufacturer, sales invoices to the country you are purchasing from, or a letter from your supplier that they were made before 13 September 1994. You then need to certify that is true, also. Each case will be handled individually. WWII magazines should be fairly easy to document. Some of the modern ones are going to present a tracking problem, however.

My take is that this is going to be time consuming as well as tedious for everyone involved. But, it will correct the situation that exists. Values are bound to fluctuate wildly. As magazine caches are found in different places around the world, prices will go down. The truly rare magazines and modern magazines will still have high values.

### MORE IMPORTER CHANGES

There is a real high level of frustration in the Importer community with the Form 6's. Import Branch processes 400-500 per week. In order to track a form, the six examiners have to each look through their paperwork, find everything that is in process for the importer who is calling in, then figure out which one is the form in question.

There is a new Form 6 policy starting 1 April 1996. Each Form 6 has an original and two copies. The original has always been returned to the licensee, the first copy is kept in Washington, and the second copy used to go to the local ATF office in case they wanted to review the import. The copy to the locals stopped a few years ago. Starting 1 April, ATF will be returning the third copy to the importers who supply an SASE (Self Addressed Stamped Envelope) with the Form 6. This will be done as soon as the document num-



ber is assigned. If you don't send an SASE, they will not be returning the copy to you until action has been taken (approval or disapproval). The copy will be a "void." The importer who has taken the time to send the SASE will now have a document number so that he can call in and track any problem Form 6's.

"The Forms" would like to applaud this innovation. It is voluntary, immediate, will benefit everyone involved, and circumvents a years long process of changing procedures that would have to normally be gone through if we tried to make the ATF pay to send these forms back. Bravo!

#### A WARNING ON BLOOP TUBES

*I received this warning from a Machine Gun News subscriber.*

Bloop tubes are sections of steel or plastic pipe that have been slipped over and attached to the muzzle of a target rifle. The reason bloop tubes are used is ostensibly to increase the distance between the front and rear sight. On a rifle, this typically results in a sight radius between 40 and 50 inches in length. On a pistol, from 20 to 24 inches.

Bloop tubes are so named because they change the "crack" of a .22's muzzle report to something more resembling a "bloop." Bloop tubes significantly reduce the intensity of the report, some by as much as 11 decibels. BATF has held that any muzzle device which reduces the intensity of a muzzle report by more than two or three decibels will fit the legal definition of a silencer and have successfully prosecuted cases where unregistered devices were either used or possessed.

Many who use these devices feel that, because their tubes are of plastic, or because steel tubes are held on by temporary means, such as set screw or duct tape, they are not really silencers in the legal sense. Nothing could be further from the truth. Bloop tubers should be warned that the materials and methods of attachment will have absolutely no bearing on whether a muzzle device is legally construed to be a silencer. In fact, one would be on much firmer legal ground if a steel tube was actually welded to a barrel, especially if that tube went all the way to the receiver. In the past, BATF has not made a serious effort at prosecuting those who own or use bloop tubes. As we all know, this policy could change in the twinkling of an eye.



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## MACHINE GUN MANUALS

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The complete manual for one of the most effective battle rifles ever made. If you own a FN-FAL you need this book. Fully illustrated with photos and drawings on almost every one of its 130 pages. 5 1/2"x8 1/2".

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### F.N. F.A.L. Auto Rifles

7.62mm NATO



### The H&R Reising Submachine Gun

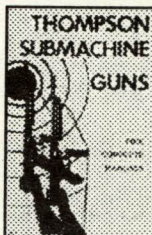
Designed for the Marines in World War II, the Reising was innovative and it fired the powerful .45 cartridge. Unfortunately, the design was not suited to the jungle environment that it was to be used in and it eventually found its way into the hands of war plant guards and the police. This book combines the rare original H&R factory manual with the military tech. manual. This is a must have book. Approx. 75 pp., 6"x9", photos, illus., soft cover.

Item No. C-9127...\$12.95

### Thompson Submachine Guns

Few arms in history have enjoyed the notoriety and publicity of the famous Thompson submachine guns. This book puts under one cover the most complete listing of practical and technical Tommy Gun information ever published. Reprints of U.S. and British military manuals plus an old Auto-Ordnance catalog add up to over 230 pages. Illus. 5 1/2"x8 1/2", soft cover.

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### UZI BMG OPERATION MANUAL



### UZI Submachine Gun

This comprehensive book gives fully illustrated details on both the wooden and folding metal stock models: functioning, detail disassembly and parts description, technical specifications and data, loading, firing, handling, zeroing, stoppages and more. 46 pages with nearly 60 large, clear photos & illustrations. 5 1/2"x8 1/2", softcover.

Item No. C-126...\$7.95

### HK Assault Rifle Systems

The tough G3 rifle and its huge number of spinoffs has long been a favorite of soldiers, policemen, and civilians. Now firearms expert Duncan Long reveals the little known history behind this fascinating family of weapons, tracing its beginnings from the ashes of WWII to the present. The book goes on to show the probable direction HK designs will take in the future.

and tells why the G3 and its variants will remain popular during much of the next century. The author also examines customized versions of the .308, .223, and 9mm rifles and submachine guns and semiauto versions as well as other chamberings of the G3 spinoffs (like the HK-91/93/94, SR-9, SAR-3/8, SP-89, etc.). 8 1/2"x11", 128 pages, illus., soft cover.

Item No. C-9013...\$27.95

### HK 91 & 93 Factory Manuals

A 52 page detailed manual for your HK rifle. You have just purchased a new or used rifle and did not receive a manual here is your chance to get one.

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## More MG Manuals

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Manual (MAC-10 & MAC-11) ..... \$6.95

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C-279 M-60 Machine Gun TM9-1215 \$14.95

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C-647 Maintenance Manual ..... \$10.00

C-648 Depot Manual..... \$10.00

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C-9002 German MG-34 ..... \$9.95

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*This is real good information. I would suggest that the shooting community spread this around—quickly.*

Several points of interest: the definition of a silencer is not based on "intent" although it certainly is used in the definition. A silencer is any device that "diminishes" the sound; you could actually RAISE the decibel level but lower the sound a human hears (use a turbine device to speed the gases and achieve pitches that humans can not hear) and still be convicted of having a "silencer." It's happened before. Even though your "bloop tube" is intended to work for sighting enhancement, if it changes the decibels by two or more, watch out!!

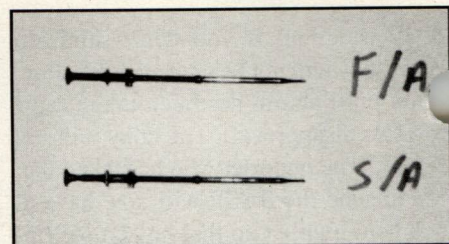
I will return next month and answer questions. There was just too much coming from the industry this month. Next month "The Forms" will also have the New NFA Charts for 1995 activity....

Questions to:  
Machine Gun News  
Dan Shea "The Forms"  
PO Box 459  
Lake Hamilton, AR 71951

### Continued from Page 8

However, the position of the crossbar is different and the distance from the front of the crossbar to the tip of the firing pin is 84.2 mm. This change makes the firing pin "nonfloating" by preloading the firing pin on the locking piece and spring. The semi-automatic pin can be recognized by a groove cut near the head of the pin. The semi-automatic firing pin should not cause unintended discharges with handloaded or commercial ammunition. However, you can expect occasional misfires with military ammunition with hard primers. I am attaching a photograph of a semi-auto and a full-auto firing pin.

The third type of firing pin that I have seen is the semi-automatic firing pin with the front of the crossbar ground off to create a floating firing pin. I believe that this is an attempt by AUG owners to minimize the military ammunition misfire problem with their semi-automatic firing pin. It appears that this is the type of modified firing pin in Mr. Silver's AUG. Full-automatic firing pins are hard to get since it is Steyr's policy not to sell full-automatic parts to anyone who is not a qualified dealer or cannot prove that they own an original full-auto AUG.



Full-auto and semi-auto Steyr AUG firing pins.

Floating firing pins are fairly common in military firearms (e.g. M16). It is always very important for safety to always have the muzzle of the weapon pointed in a safe direction when chambering a round, regardless of the type of ammunition used.

As far as a shorty AUG is concerned, Steyr manufactured a 14" barrel, which is no longer available, in addition to the 16" and 24" barrels. This barrel has a birdcage flash hider and a nonfolding front hand grip. I am also including a photograph of an AUG with a 14" barrel.

I hope that this letter prevents potential unintended discharges by clarifying the types and uses of firing pins in this excellent weapon.

Sincerely  
Alex G. L.

## The Machine Gun Dealer's Bible

The newly revised *Machine Gun Dealer's Bible* is a hands-on reference guide that is available anytime you need it. If you're already a dealer 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

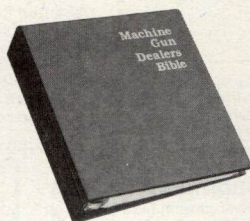
First Time Buyers  
Individual Practices  
Qualifications for Ownership  
The Process  
Law Enforcement Signature

### Getting A License

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

### Dealing with NFA/BATF

Working Relationship  
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Procedure or Legality Question Answered  
Finding Out the Registration Status of a Firearm and more.....



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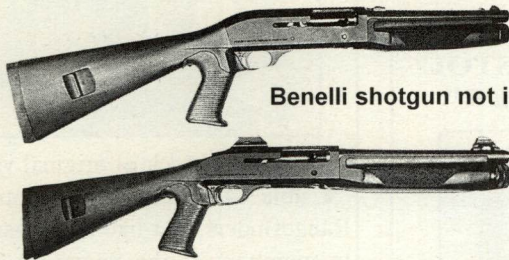
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# CLASS THREE SUPPLY, INC.

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.

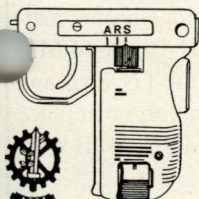
Note: The M1K "HAMMER" conversion is only available on otherwise stock shotguns. CTS Inc., may refuse any firearm that is deemed unfit. Price and specifications are subject to change without notice.

## 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.

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C0045	Left grip panel	\$ 5.00
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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
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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.

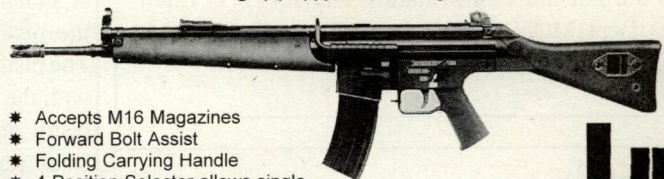


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- 0504000 - Grip assembly for Mini Uzi closed bolt SMG **\$495.00**
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## BRAND NEW PARTS FOR YOUR UZI!

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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> <p>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.</p> </div>		
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## G41 MACHINE GUN



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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.

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

## RUGER AC556 PARTS KITS



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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
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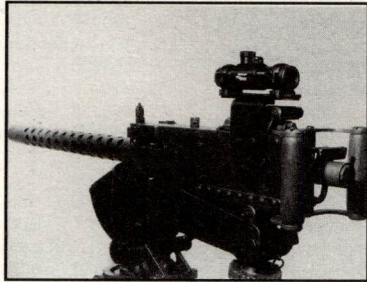


# What's New

by Chris A. Choat

## 1919 SCOPE MOUNT

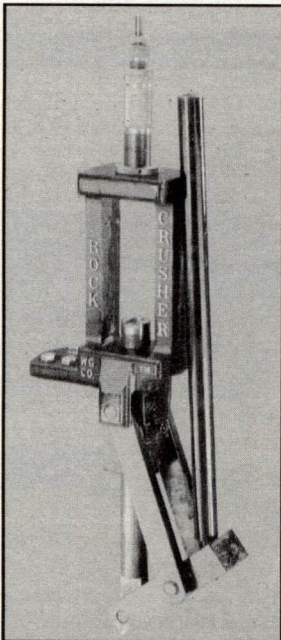
A new scope mount is now available for the 1919 Browning Machine Gun. The mount is made of 1/4" solid steel, with a black Teflon finish,



and mounts to the three holes on the left side of the 1919 receiver. The scope can be mounted "inboard" over the top of the receiver or "outboard" off the left side of the receiver. The mount comes complete with all mounting hardware and a weaver type base for \$125.00. For more information contact DCC Enterprises, Dept. MGN, 259 Wynburn Ave., Suite C, Athens, GA 30601. Phone: (800) 858-6979.

## .50 CALIBER RELOADING PRESS

Dave Cumberland at The Old Western Scrounger has informed me that he is selling the Rock Crusher press and .50 caliber die sets for all the Big Boomers out there. The Rock Crusher press is designed to reload and form ammunition from .50 caliber Browning up to 23 x 115 Soviet. It will handle all ammo within this range with no modifications. The press is a compound leverage "O" type reloading press and provides more than adequate leverage. The press is 26 inches long, has a 30 inch handle and weighs in at 80 pounds! They also offer shells holders, dies, large capacity powder measures, bullet molds and bullet pullers for all the "extreme" calibers. For more information contact Dave at The Old Western Scrounger, Dept. MGN, 12924 Hwy. A-12, Montague, CA 96064. Phone: (916) 459-5445. Fax: (916) 459-3944.

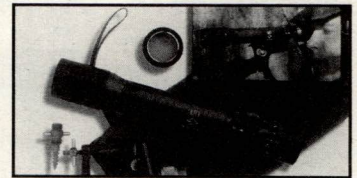


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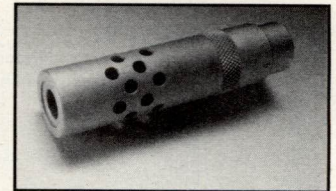
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## ACCU-BRAKE MUZZLE BRAKE

The Accu-Brake SA is an accuracy tuning muzzle brake designed for No-Gunsmith mounting on many popular, military type semi-automatic rifles but is suitable for automatic arms as well. The no-gunsmithing adapters use the rifles current factory muzzle threads that are used to secure the flash suppressor, front sight or gas system. The Accu-Brake SA increases accuracy with any load, cutting group size by 50 percent and also decreases recoil by as much as 50 percent. The tunable brake speeds target acquisition and neutralizes muzzle flip and lateral tracking. All Units feature a Dura-Chrome matte hard chrome finish. They are available for AR-15/M-16, M-14/M1A, H&K 91 and 93 and Ruger Mini 14. Models for the FN-FAL and M1 Garand are under development. For more information or to place an order contact Firearms Technology Inc., Dept. MGN, POB 640, Plains, MT 59859. Phone & Fax: (406) 826-5789.

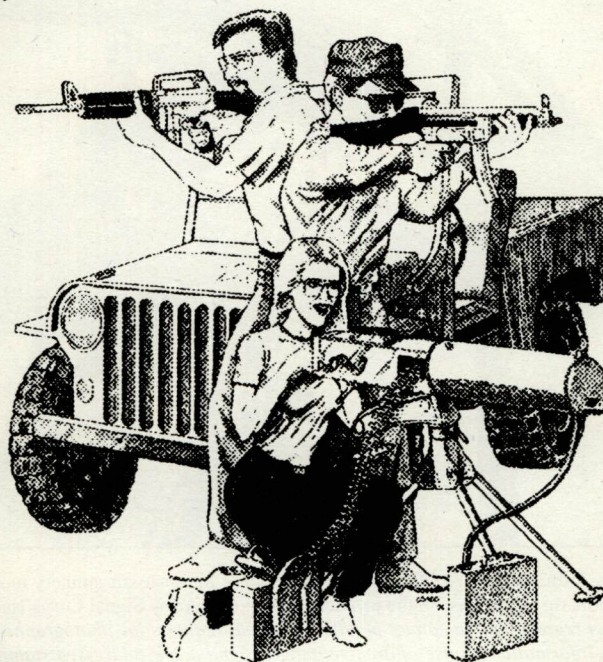




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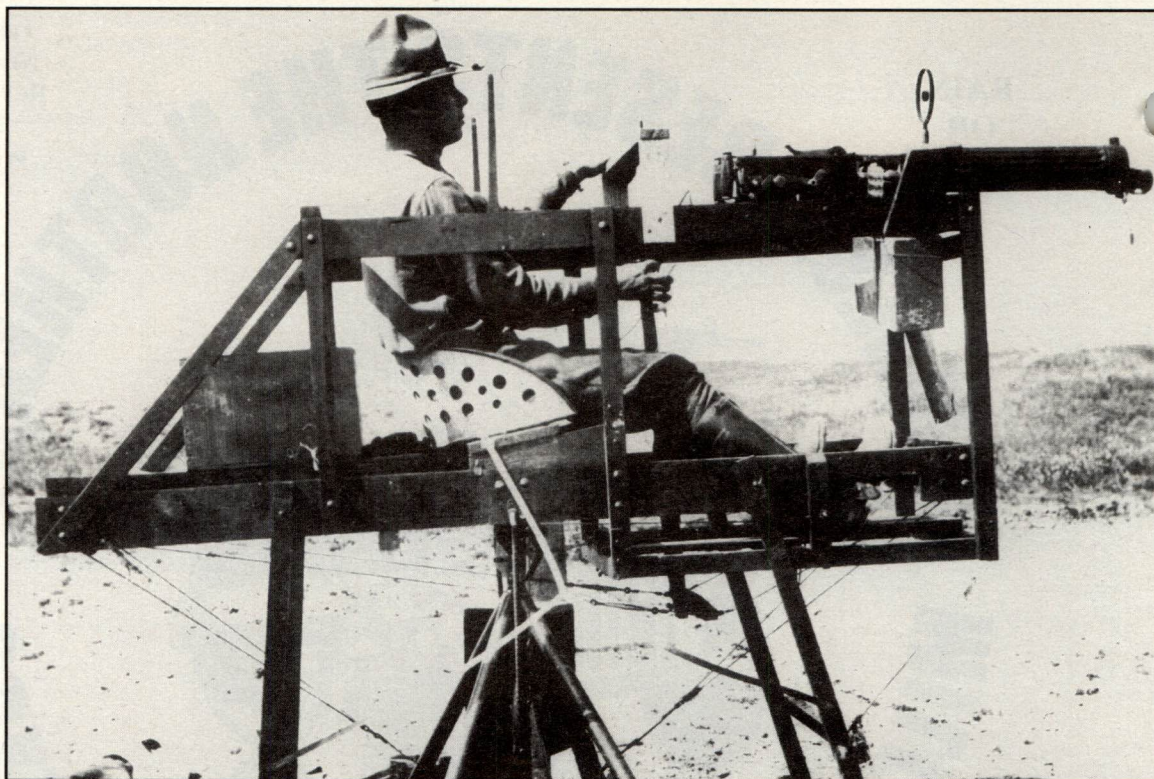
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For more information contact the Hiram Maxim Historical Society at 207-465-2336



## Archive Photo of the Month

From the  
Robert Bruce  
Collection



(Location and date unknown) World War One. A trainee U.S. Army fighter pilot practices for air-to-air gunnery in an elaborate cockpit mockup. A Vickers Gun is secured to the frame-work which moves the whole rig in response to the joystick. 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

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**Transferable M1A1** Thompson, last of the Auto-Ordnance guns. Excellent shooter. Gunmachines reliability kit, extra bolt, 10 30-rd. mags in USMC pouches, \$2000. Gemtech MK9-K 9 mm suppressor with Tri-Lock quick mount for MP5 three-lug, new, \$550. Remington 700 PSS .308 w/AWC ThunderTrap, Leupold 4.5 x 14 custom Mil-Dot, round bolt. cryo treated bbl., 40 rounds logged 1/2 MOA @ 600 yds, \$2350. Post-May sample Galil .223 SAR, test fired, complete as Nib with 5 35 round mags in Israeli pouches, \$1100. Looking for M4A1, or M16A2 carbine, post-May OK. Call Cory @ (714) 553-2101.

## FULLY TRANSFERABLE 125

**Transferable HKs:** 51A3 reg. rec., \$3295; G3KA2 Sear gun, \$3395; 33KA2 Sear gun \$3495; have extras available. Wanted: reg. rec. or auto sear for M16, American 180 and complete E2 stock for M14. Private sale all NFA rules apply. (503) 293-2898. (xjun)

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## DEALER SAMPLES 130

**Post Sample** HK G3SG1 Sniper ensemble w/scope, sling, mags, & wood case, excellent \$1495.00 + shp. J.G. Firearms & Collectables, PO Box 68, Brant, MI 48614-0068, PH/FAX (517) 661-2615. (x)

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## MG SHOOTS/SHOWS 140

**ALASKA Class 3** owners. Would you like to participate in an exhibition and mad-minute firing demonstration at a respected public event this summer? Contact Mike Hawker, (907) 346-2844 for more information.

## GUN PARTS 145

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## SERVICES DIRECTORY 160

**Colorado, Law Enforcement and Resident, Stocking Dealer** will handle your Class III needs and process transfers for qualified residents. John: days (303) 594-6279, eves (303) 674-1760. (xjul)

**FIREARMS ATTORNEY, Richard Gardiner, former NRA Counsel, specializes in firearms cases in Federal, State Courts; Criminal defense (BATF, NFA prosecutions), forfeiture, licensing; (703) 352-7276. (xb)**

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# CLASSIFIEDS

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## MAGAZINES 185

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<b>7.62 NATO</b> AM-0506-C1600	French Gov't Arsenals	1960s	Brass	Lead Core FMJ	50rds on M60 Links	1600 rds	100 lbs	No	No	<b>\$319.90</b> (\$ .20/rd)	34.00	36.00	39.50	(7) 67
<b>7.62x54r</b> <b>LIGHT BALL</b> AM-0510-C320	German Military Arsenals	1980s	Steel	Steel Core FMJ	20rds	320rds Plastic Sleeve	20 lbs	No	No	<b>\$44.50</b> (\$ .14rd)	5.75	9.00	12.00	(85) 72
<b>30.06 Steel Core</b> <b>G.I. BLACK TIP</b> AM-0485-C250	F.N. Belgium	1960s	Brass	Steel Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	<b>\$87.50</b> (\$ .35rd)	5.75	9.00	12.00	(FN) 67
<b>30.06 Ball</b> AM-0447-C250	F.N. Belgium	1960s	Brass	Lead Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	<b>\$72.50</b> (\$ .29rd)	5.75	9.00	12.00	(FN) 67
<b>30.06 Blank</b> <b>ON LINKS BELTS</b> AM-0480-C250	F.N. Belgium	1970s & 60s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	No	<b>\$27.50</b> (\$ .11/rd)	5.00	8.00	10.00	(FN) 65
<b>30.06 Blank</b> <b>ON LINKS BELTS</b> AM-0482-C250	I.M.I. Israel	1990s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	YES	<b>\$34.50</b> (\$ .138/rd)	5.00	8.00	10.00	(IMI) 30 91
<b>30.06 Blank,</b> <b>Star Crimp Bulleted</b> AM-0482-C400	I.M.I. Israel	1990s	Brass	N.A.	20rds	400 rds .50 Cal Can	35 lbs	YES	YES	<b>\$49.00</b> (\$ .125/rd)	7.50	13.00	18.75	(IMI) 30 91
<b>7.65 Argentine</b> <b>7.65x54</b> AM-0326-C1500	Argentine Military Arsenals	1980s	Brass	N.A.	15rds	1500 rds	90 lbs	YES	No	<b>\$172.50</b> (\$ .115/rd)	33.00	35.00	38.00	(7.65) (SF) 81

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