

Machine Gun News

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45th Infantry Division Museum



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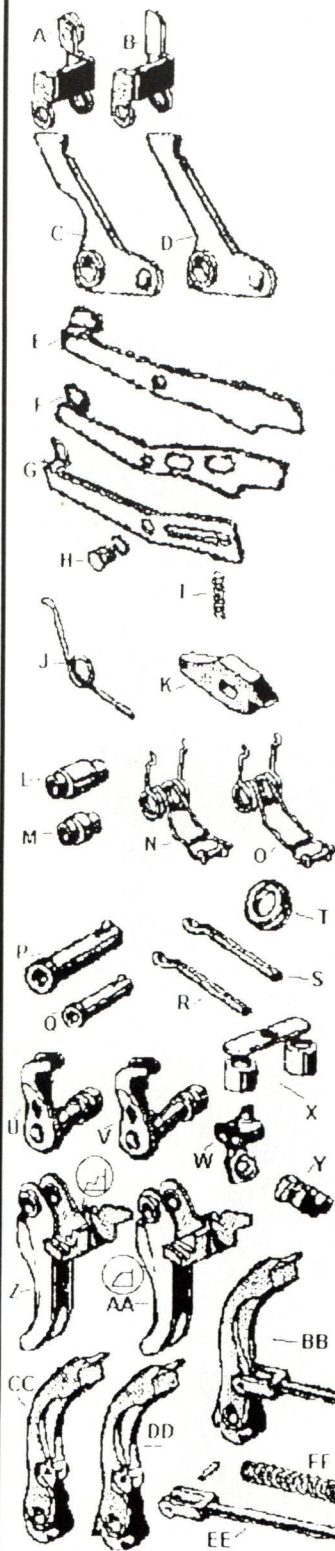
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THE MAGAZINE FOR FULL-AUTO ENTHUSIASTS

MACHINE GUN

N E W S

Volume 8 Number 11

April 1995



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On the Cover: Furr Arms 1874 Gatling Gun. Photo by Capt. Monty Mendenhall

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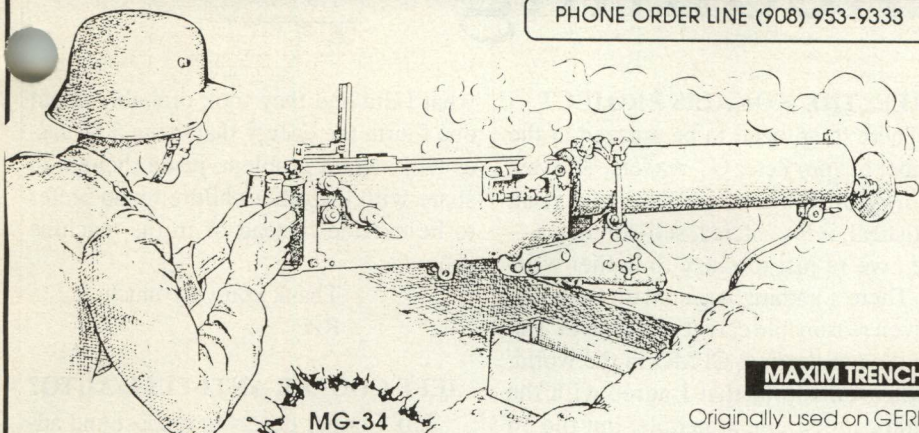
Lucy Bright

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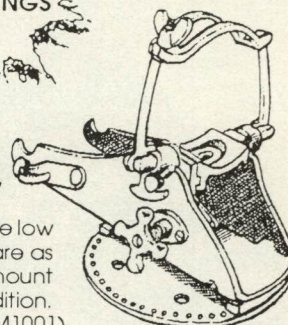
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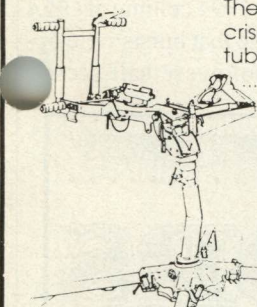
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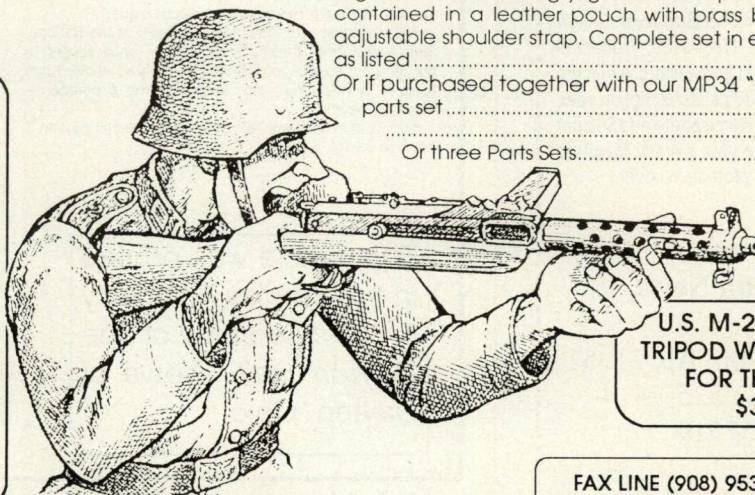
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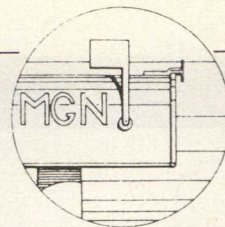
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Incoming



REF: THE KOKALIS PROJECT

There is no need to be amazed at the number of "pro Peter G." readers. The vast majority of us are aware that Peter is an egotistical, self-centered, self-serving, a—hole...we're just too lazy to bother writing. There's nothing wrong with the M60. If given reasonable care it will deliver. I'm sure it's not the best GPMG in the world, and heaven forbid that I agree with the military procurement people, but the 30 odd years of service rendered by the M60 is hard to refute. And yes, I do own one, as well as several other belt guns.

PEN

Be honest now, you're just trying to butter Peter up for something, aren't you?—Dan

RE: TOKAREV ARTICLE

I don't want to be rude but wouldn't it have been easier when making 7.62x25 casings to "Be Big" and spring for some 9mm Win Mag casings and avoid all the 19 trips through the machine shop? That's

what I did and they took probably about one fourth the energy that using 5.56 cases took. Not a problem, just a thought to share with the other children who prefer to be outside instead of in the machine shop.

Thank you very much.
 RA

JEFF COOPER ANTI-FULL AUTO?

Jeff Cooper deserves respect and admiration for his development of modern pistolcraft—especially as embodied in the social usage of the Government Model. His antipathy toward high capacity 9mm is well known (doesn't he call them crunchentickers?). Recently this antipathy seems to be extended to full auto. In the March 1995 issue of *Guns and Ammo* he declares, in no context whatsoever, "May all of your adversaries be on full auto. The Guru."

In his September 1994 column of *G&A* he asserted a principle that bursts were optimal at a single shot every half second.

CAPITOL CORRIDORS

A COLUMBUS NOTEBOOK

■ **He's tanned, rested, armed and ready:** It's too darn bad that Ohio Attorney General Betty Montgomery has already named her crime czar.

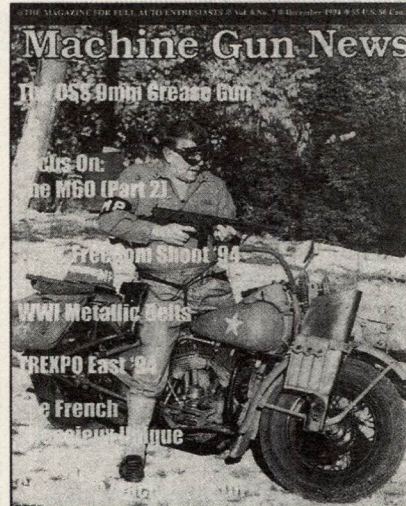
Former state lawmaker Richard Rensch fancies himself tough on crime, and he apparently has ample time on his hands. And he's got his own private arsenal.

Rensch can be seen on the cover of the December issue of *Machine Gun News*, sitting on his 1942 Harley Davidson and holding a Thompson submachine gun.

The magazine lists Rensch as a member of the National Rifle Association. Rensch, from Norwalk, once sought to put on a bill an amendment that would have allowed him to drive a tank down city streets during a parade — without a permit.

"I'm a little different from the run-of-the-mill person," he once said.

This article was printed in the Sunday, February 5, 1995 edition of the *Dayton Daily News* of Dayton, Ohio.



Considerably armed: Richard Rensch drives Harleys, not bills, since leaving office.

and complained about the wastage of ammo and how legislators and commentators did no understand how this principle applies to hand held automatic fire.

Should we be redesigned for a 120 rounds per second or moving our selector switches permanently to Eizenfleur.

Ken Dunham

P.S. I do display the Don't Tread on Me at home and the Mozambique flag on my desk at work. But alas, I did not have a sufficient number of ex-wives to qualify as a true Gun Nut.

ACCURIZING THE 10/22

I found Mark White's article on the Ruger 10-22 very interesting and informative. As a result I'll see what I can do with my folder, which I had been keeping for a reserve weapon, but for which I had not had a very high opinion. I'll try to get a heavy barrel for it.

I disagree with Mr. White about stainless barrels. I have a Rem. 40-X with a .308 29 inch heavy Douglas SS barrel which is phenomenally accurate. It shoots one hole at 100 yards (five shots) a thumb-nail sized five shot group at 200 yards, and a 9 inch group at 600 yards. And the way I can clean the barrel without taking it apart to remove the bolt, is from the muzzle end. I use an aluminum cleaning rod, and it doesn't seem to have hurt it yet.

Yours,
WB

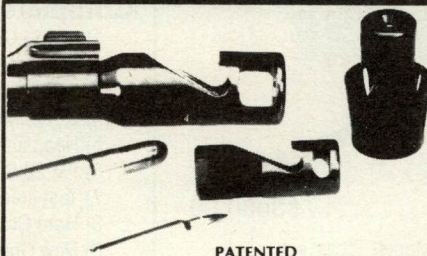
TEN THOUSAND DOLLARS TO PRESIDENT CLINTON

I recently talked with some firearm executives who attended the '95 SHOT Show. They said this was the best year for orders they ever had. Small shops that have regularly done \$800 a day for years have moved to a steady \$4000 a day since the passage of the Crime Bill. One suggested sending a check for ten thousand dollars to President Clinton in appreciation for what he has done for the firearms industry. I wonder if he would endorse it?

Mark

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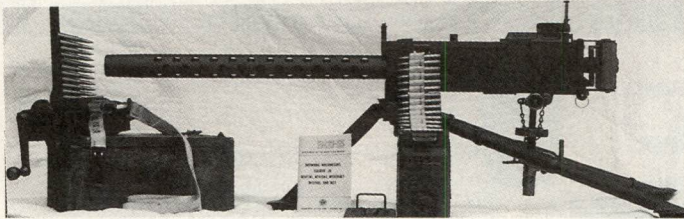
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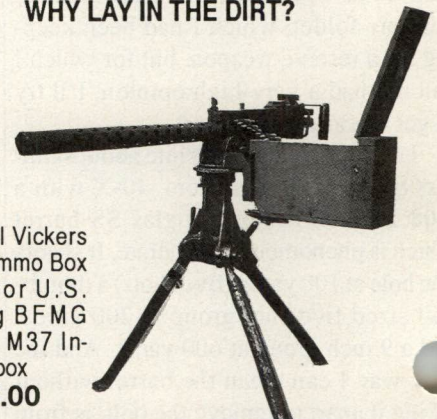


Last modification of the orig. design by John Browning. This model is Mfg. for optional rt. & lft. hand feed. This firearm is especially suited for both armored vehicles & infantry use in .308, 8mm & .30-06 cal. Complete w/machine link loader & 2,000 IMI links new in wrap.

NEW \$2650.00 w/Tripod P T&E \$ 3000.00
Special Twin Guns on Twin Cradle Mount .. \$ 6000.00

Chrome Trunion Call for details or special requests.
Chrome Lined Barrel .308 Complete .308 Conversion installed in your gun,
Links Or Belts Test Fired \$ 550.00

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Orig. WW II Vickers
Tripod w/Ammo Box
Adaptor for U.S.
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17A1, A4, M37 In-
cludes one box
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Grade B	\$ 350
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1928A1 Bolt Compl. U.S., G.I., N.O.S.	\$ 150
1928A1 Actuator U.S., G.I., N.O.S.	\$ 85
PPSh41 w/stick mags	\$ 285
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ZK383 excellent cond. with Bipod	\$ 250
Less Bipod	\$ 200
Swedish K Excellent Condition	\$ 250
MG15 Orig. German WWII	\$1350
M37 U.S. in .30-06	\$ 950
In .308	\$1150
FN-30 in .308 Comp less Right Side Plate	
Excellent Plus Condition	\$ 285

U.S. 60mm inert
HE mortar round
Comp. w/fins
Exc. Cond.
\$12.50 + shipping



Magazines

MPK-L 40 rd. Mag	\$ 50
ERMA EMP 30 rd.	\$ 35
MAC-10 9mm 40 rd. Steel Mag	\$ 50
M-3 U.S. .45 cal.	\$ 12
10 for	\$100
ZK383 30-rnd	\$ 65
Madsen .30-06 30-rd. Mag 5—each in original carrying can	\$ 75
FND BAR .30-06	\$ 15
L2A1 30 rd. Unissued Cond	\$ 75
MP41 32 rd. Mint Cond	\$ 55
MP38/40 Flat Side Mag	\$ 55
Bren 8mm 20-rd. Mag	\$ 65
PPS43 Mags 30-rd.	(ea) \$ 35
PPSh41 Mags 30-rd.	\$ 35
Lanchester-STEN 50-rd. Mags	\$ 55
PPSh41 72-rd. drum & pouch	\$100
MP40 Mags 32-rd. Orig WW II A	(ea) \$ 55
B	\$ 30
	10/\$250
Reising 30-rd. New mode guaranteed	\$ 55
Sterling 45-rd. exc plus	\$ 55
	10/\$500
Orig. WWII Thompson 50-rnd Drum	
Excellent Plus 95%	\$ 350
Very Good Plus 90%	\$ 250

1919A6 conversion

Buttstock, .308 chrome lined barrel, barrel jacket, bipod, flashhider, carry handle new condition .. \$350.00
W/30.06 barrel \$300.00

Accessories

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Vickers Brass Tab Reloadable Belts	\$ 75
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Browning Orig. 100-rnd. cloth belt	\$ 8
FND Barrel .30-06	\$ 100
FND Barrel 8mm	\$ 200
FND Barrel .308 cal. excellent	\$ 250
1908 Maxim Sled Mount Top Strap	\$ 250
1908 Maxim Steam Condensing Hose	\$ 100
M2 30 cal. Tripod Pintle T & E UK Mfg.	\$ 350
MG3 MG42 .308 Conversion set barrel, Flashhider, top cover, feed tray, Rheinmetall Mfg.	\$ 850
MG3 100 rd. Assault Box	\$ 100
MG3 Complete Bolt	\$ 400
MG3/42 .308 barrel 4140 Steel H.T.	\$ 250
1919A4-A6-M37 IMI Mfg. .308 Cal.	
New Unissued Barrels, Chrome lined (ea.)	\$ 100
	2/\$170
	3/\$250
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	10,000/\$350
Orig. Vickers left side plate	\$ 200

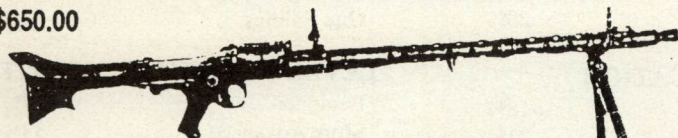
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COMPLETE MG34 .308 CONVERSION KIT

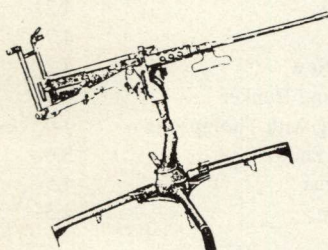
\$650.00



.308 Chrome-Lined Barrel & Bolt Comp.
Set for Pre-Determined Head Space
.308 Only Feed Tray, New Cond.
.308 Complete Feed Slide Assembly
.308 Hard Chromed Reduced Orifice Booster Cone

U.S.G.I. M63 AA MOUNT

Not cut, in very good cond.
Comp. w/Ammo tray



\$825.00

COMPLETE 1919A4 .308 CONVERSION SET

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

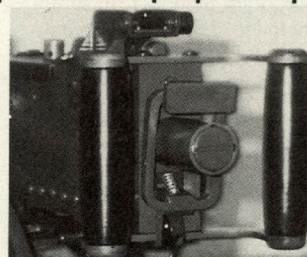
\$350.00

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

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

These still function in 8mm & .30-06

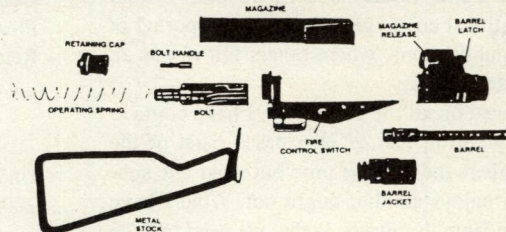
1919A4/1917A1 Comp. Space Grip Assembly



\$275.00

With single ANM2 Type Butterfly.
Orig. Designed by us. Finest quality available.

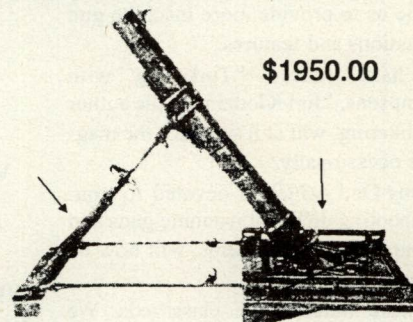
ORIGINAL WWII BRITISH STEN MKII & III PARTS SETS



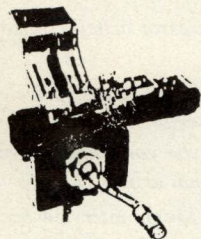
With "T" Stock Spare Mags \$ 8.00
Very Good Cond. . . . \$ 150.00 Orig. Sten Slings . . . \$ 10.00

Orig. U.S. WWII 4.2 Mortar Comp.

In exc. cond. Rendered unserviceable according to ATF specifications (Not Demilled Torch Cut) With orig. M59 Optical sight & case in Exc. Cond. Also Redical Night Light, Gunner Tool Pouch & Maintenance Tool Roll N.O.S.



\$1950.00



**MG34
MG3-MAG .308**
Belt Loading Machine
New Cond.
\$350.00

ORIGINAL WWII

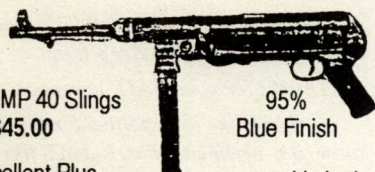
MG 34 ACCESSORIES

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

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\$550.00

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Original MP 40 Slings
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Blue Finish

Excellent Plus
Condition

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MP40 Fully-Transferable Finished Receiver. **\$850**
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CZECH MOD ZK 383



Less Bipod
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Compl. Part Set 9mm Parabellum
quick change Barrel w/Bipod &
30 rd. mag. This is one of the
finest quality SMGs ever produced.
GREAT FOR NON-GUN

\$250.00

Original M3A1 .308, 8mm, 30-06 Cal.

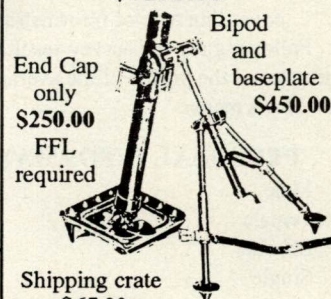
Belt Linking Machine

\$275.00

With 2,000 links **\$300.00**

ORIG M2- 60MM WW II MORTAR

Comp. w/sight, bipod, base plate
& Orig. Shipping crate
\$1250.00



End Cap
only
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FFL
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Bipod
and
baseplate
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Shipping crate
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MGN Reader Survey Results

First of all, we would like to thank all the subscribers who responded to our survey. Many of you did more than just fill in the survey, you also included detailed comments on what you liked and didn't like in the magazine (we had pages and pages to read and consider). The consensus was that we all like machine guns, however, some like new guns, some like old guns and many of us just like anything that goes boom.

The most distinct difference of opinion focused on politics and suppressors. Some people absolutely loved the suppressor coverage and wanted more, where others hated it and wanted none. Some subscribers didn't want any political coverage because it is reported in other publications, where others felt it was an absolute necessity.

Based on all the comments, I have come to the conclusion that MGN pleases most of the subscribers most of the time but what one subscriber enjoys another might not. What I have learned from the survey is that we need to keep a variety of items in the magazine so we will "hit the spot" for most subscribers with every issue. We also need to add more pages.

The changes that we have made so far from the survey results include:

- ☐ Focusing less on machine gun competitions. We will still include coverage but provide less space to them. This will enable us to provide more machine gun evaluations and features.
- ☐ We have retired "Tinkering with Thompsons." Jim Klodzinski, the author of Tinkering, will still write for the magazine occasionally.
- ☐ "Focus On," which is devoted to trouble-shooting different machine guns and machine gun related items, will now be a monthly feature.
- ☐ We have indexed the classifieds. We hope this will make our classified section easier to use.
- ☐ Politics will only be discussed when it is relevant. At times we need to get the word out to our subscribers because the other gun-type magazines don't always cover this type of information.

Following are the survey results. It's interesting to see the profile of the average Machine Gun News reader.

PERSONAL INFORMATION

Male	99%
Female	1%
Married	64%
Single	36%

ANNUAL INCOME

Less than 16,000	5%
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16,000 — 29,999	13%
30,000 — 60,999	38%
61,000 — 99,999	24%
100,000 and over	20%

EDUCATION

High School	18%
Some College	31%
College Graduate	26%
Post-graduate College	25%

GUN RELATED HOBBIES

Hunting	45%
Competition	31%
Collecting	78%
Pleasure Shooting	91%
Reloading	59%

AMMUNITION

Rounds bought per year

Under 2000	38%
2000 — 5000	33%
over 5000	29%

RELOADING

Load your own	46%
Buy mostly reloads	3%
Buy mostly new loads	51%

PLANNED SPENDING ON GUNS AND RELATED ITEMS

\$0 — \$499	10%
\$500 — \$1,999	43%
\$2,000 — \$6,000	29%
Over \$6,000	18%

WHO READS YOUR PERSONAL ISSUE OF MGN

Persons per issue	1.9
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WHAT YOU DO WITH MGN AFTER YOU HAVE FINISHED READING IT

Keep Issue	90.0%
Clip Items	4.5%
Pass it Along	5.0%
Discard it	0.5%

PROPORTION OF MGN YOU READ

Portion read	92%
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CONTENT DESIRED

(Scaled 5 to 1, 5 is highest rating)

MG Historical Articles	4.2
MG Evaluations	4.5
MG Customizing	3.4
Suppressor Articles	3.3
Accessory Articles	3.6
MG Shoot Reports	3.1
MG Competitions	2.8
Photo Disassembly	4.0

Reloading Information	3.0
Interviews	3.6
Industry News	3.5
Gun Politics	4.0

LEVEL OF ARTICLES WANTED

Beginner	47%
More Advanced	53%

LICENSED READERS

Respondents who were Dealers	57%
Of those who were dealers:	
Class 3	30%
FFL	70%

DEPARTMENT RATINGS

(Scaled 5 to 1, 5 is highest rating)

Incoming	4.4
Editorials	4.2
Raffica	4.7
What's New	4.2
The Ammo Bunker	4.0
Tinkering with Thompsons	2.9
Archive Photo	3.6
The Forms	4.5
Focus On:	4.3

SELECTED COMMENTS

I look to MGN for in-depth articles related to ALL PHASES of what has become popularly known as "the Class 3 World."

I don't like suppressor articles. I like bangs not clicks.

The writings of Dan Shea are priceless and I can compare him only to Peter K. in knowledge and style. Maybe you should have Peter K. write an occasional article.

I liked the Reed Knight interview because it covered a wide range of topics covered from the experts point of view.

It's true that all M.G. shoots are the same. But, isn't that what this magazine is about? Aren't machine gun shoots what M.G. enthusiasts want to read about?

Keep us informed on the laws for people that have machine guns.

More detailed technical articles with pictures and drawings on operation of various MG's.

Although your name is MGN, you service the entire Title 2 field. Keep it up!

Thanks for your BATF coverage.

I didn't like the political rally article. I know it's pertinent, but I don't like reading about our rights being eroded.

I don't have many contacts in Class 3 so MGN is my link with the industry.

Excellent magazine! Esoteric enough to be eccentric and wonderfully so! MGN



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Non-corrosive, brass case with lead core bullet. 1980's mfg., pack 50 rds per box, 2000 rds. per case.
\$ 25.00 per lot of 100 rds., Fgt. collect. **\$200.00** per lot of 1000 rds., Fgt. collect.
\$375.00 per case of 2000 rds., Fgt. collect. Buy 10 or more cases, **\$350.00** per case of 2,000 rds. Fgt. collect.

WWII
8MM M.G.

Original WWII, Nazi machine gun ammunition, marked "Fur M.G." manufactured to highest standard for MG-34 and MG-42 machine guns.
\$250.00 per lot of 1500 rds., Fgt. collect.

8MM KURZ
FOR MP-44

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

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Non-corrosive, boxer primed, 1980's mfg. 5.56 NATO. 55 gr. F.M.J. bullet and brass case. High quality, not the alleged non-corrosive Chinese .223 available. Packed 820 rds. per G.I. ammo can, 1640 rds. per crate.
\$ 19.95 per lot 100 rds., Fgt. collect.
\$144.95 per can of 820 rds., Fgt. collect.

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Makarov

Non-corrosive, boxer primed, new mfg. commercial ammunition.
Packed 50 rds. per box, 1000 rds. per case.
\$17.50 per lot of 100 rds., Fgt. Collect **\$155.00** per case of 1,000 rds, Fgt collect

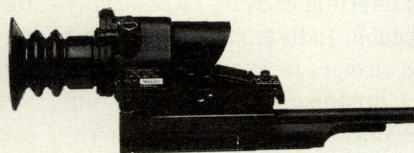
7.62x54R

Super clean Bulgarian mfg. brass case military ball.
Packed 300 rds. per tin, four tins per case of 1200 rds.
\$ 20.00 per lot 100 rds., Fgt collect.
\$199.95 per case of 1200 rds., Fgt collect.
Buy 5 or more cases, **\$179.95** per case of 1200 rds., Fgt collect.

● ● ● **BLANKS** ● ● ● Lot of 1000 rds. **\$80.00** Fgt. Collect/Lot of 10,000 rds. **\$750.00** Fgt. Collect.
8mm Mauser Blanks, Wood Tip ● .303 British Blanks ● 8mm Kropatchek Blanks, Wood Tip

BRITISH TRI-LUX L2A2 SCOPE SALE

This rare British Army issue Tri-Lux optical sight is now available in the U.S. The 4 power mil-spec unit comes complete with mount. Originally going for \$600.00, this scope is now available at an economical price. (Note: Due to import regulations, the tritium lamp has been removed.)



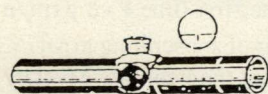
SPECIAL: \$99.95 or 6 for \$550.00

M-16 T-MOUNT

We have a few T-Mounts available that with a little gunsmithing can be screwed into a standard AR15/M-16 scope mount. This T-Mount can also be adapted to a variety of rifles and machine guns for mounting of the high quality Tri-Lux L2A2 scope. Install a Mil-Spec. optic on your rifle for a bargain price. Quantities limited.

Special: \$9.95

RUSSIAN PU SNIPING SCOPE



Rare 2.5 power Soviet sniper scopes. 6-5/8" long, w/military markings. Robust, high quality, compact scope ideal for mounting on military rifles. Will fit on Navy Arms Type 89 detachable mount. Complete with lens cap and scope covers.

Sugg. Retail: \$150.00 **DEALER: \$69.95**



TWIN M-2 PEDESTAL MOUNT

These rare .50 cal. Browning M-2 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.

Price: \$795.00 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 or 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. Non-defective 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.



Raffica

by DAN SHEA

"Look, if we just stop getting talked about, and let them ban a few weird guns that no one cares about, we won't have to worry about the anti-gun people getting anywhere" - Overheard at Manchester, NH gun show, January 1995.

"Fix your eyes on the greatness of Athens as you have it before you day by day, fall in love with her, and when you feel her great, remember that this greatness was won by men with courage, with knowledge of their duty, and with a sense of honor in action.....For you now it remains to rival what they have done and, knowing the secret of happiness to be freedom and the secret of freedom to be a brave heart, not to idly stand aside from the enemy's onset." - Thucydides 400 BC

Dan steps up to the soapbox -

The "man" who made the first comment quoted above, was swiftly offered a refund of his fee for entry into the gun show by yours truly. He informed me that "assault weapons" were the problem we had today, and if we let them ban them, the problem would end. I was then informed that he had been "...in the gun business since before I was born." I informed him that he must be the world's slowest learner.

Ignorance is not an excuse—too often in history have we heard the laments of those who belittled the threat until it was too late, then whined about how they "can't believe what happened." "Assault weapons" are just the latest bug-a-boo in the arsenal of the anti-Second Amendment fanatics—if they ban the dreaded assault rifles, the next day the threat will be small handguns, then shotguns, and on and on, until the American people are disarmed and vulnerable. Then it will be too late to fight back, and the sniveling of the apologist quoted above will make it all the more difficult to bear.

Dan now yields the soapbox to you....

One of our esteemed Rafficarians has called with a special request: He had sent a Japanese Type 98 machine gun (copy of a German MG-15) to a dealer he knew.

When he got it back, the capture papers were missing. Where they are, no one knows. There is a certain group of collectors of these items. These documents are of great historical interest to the display of this firearm. The 98 was brought back by John A. Contestabele. It is serial #2316, in 8mm, with manufacturer listed as "Unknown." The capture papers state "made unserviceable by means of welding on Feb. 1, 1946." If you have seen these papers, or know who has them, drop me a line at MGN and I will get the information to the proper owner.

My month for getting slapped around—some newer readers took offense to me referring to knowledgeable Class 3 gunsmiths, combat veterans, and military professionals as "star-struck kids, enthused about their sport" or some such. Sorry. Oops, an old combat veteran, gunsmith, and retired U.S. Army Colonel once told me, "Never apologize, son, it's a sign of weakness." Let me regroup. If you guys are offended by that characterization, perhaps it was because I wasn't talking about you. I was referring to every "Reasonably Knowledgeable Individual" (RKI) that I know, who changes from a professional to a "kid at Christmas" when you let him shoot a VP-70M or 93-R, or examine a Mini-gun, fondle a Walker, look at Patton's pistols, or hold a Winchester 94 serial #1 in their hands. There is all of that excitement in our business. Every tactical team member, Green Beret, SEAL, Marine, or other man at arms that I have known, enjoys the "sport" of shooting. I enjoy fine workmanship. (I even revel in shoddy workmanship if it's so horrible it's enter-

taining.) I think that if you guys read Raffica for a little longer, you may find kindred spirits here.

I have received some interesting correspondence from an RKI in Maine who is familiar to MGN's longtime readers—Bill Vallerand. His first note was on the PPSH-41 barrel removal procedure that I went over in MGN January 1995, Volume 8 No. 8.

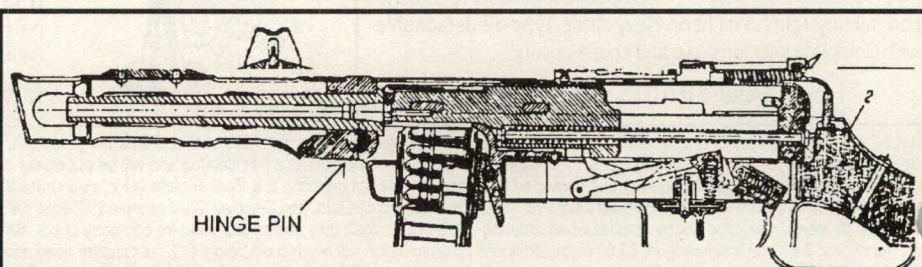
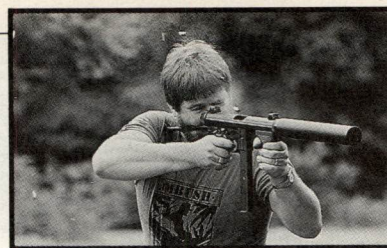
"Dan, you're wrong on the PPSH-41 barrel removal. It is simply a matter of driving out the hinge pin and removing the barrel to the rear. The PPSH-41 is meant to have a quick remove barrel. Please note the diagram from page 600 of Tom Nelson's World's Submachine Guns"- Bill.

OF COURSE it is, Bill. I know that the barrel simply pulls out to the rear after the hinge pin is out. I left out the word "bearing" in that sentence. The Rafficarian wanted to remove the barrel and BEARING. I stand by the answer as regards the bearing. (Did I get out of this yet, Bill?)

Other interesting info from Bill included some photocopies of old manuals for the Mle 1915 Chauchat for the U.S. military (1917).... *The U.S. handbook of the Benet-Mercie Machine Rifle Model 1909 with Pack Outfits and Accesories* (1917), and a quote from "America's Munitions"; *Aviation Equipment and Armament*, Page 299, where the author discusses Marlin 1895 machine guns in De Haviland—4 planes using disintegrating metallic links! I'd like to hear more on that one....

MYSTERY PHOTO

MP-1 This is the first time I've written in after over a year of subscribing to MGN. I think I know what the February Mystery



PPSH-41 Barrel Removal

Photo is! Undoubtably this is a rare Calibre Conversion Kit for the Boyes .55 AT rifle. I didn't think any pictures existed of this rare accessory. It's either that or the magazines for a 1918 BAR and an M2 carbine with the plastic cartridges for them. These were the large scale cutaway models used by the military to train soldiers on functioning of the weapons. Thanks for the great magazine and an easy mystery photo.

Chuck Boelter

A Now, Chuck, you're fooling with me....

MP-2 I received the February *MGN* today, and on opening the "plain white wrapper" I was immediately struck by the cover photo. On vacation last summer, I had the pleasure to spend a couple of weeks in Normandy, and quite a few enjoyable days visiting the many, many WWII museums in that area. The cover photo is an exact duplicate of the interior of a glider on display at a museum in Sainte-Mere-Eglise, scene of a major 101st Airborne action on June 6, 1944. And look at all those new M1A1s! And with the correct slings, even!

The Mystery Photo appearing on page 14 of the February 1995 issue of *MGN* appears to be a comparison photo of a 20 rd BAR magazine and a 20rd M1 Carbine magazine, and a real (one that's all silver, that is) dime, no doubt included for scale. Possibly a PR photo, touting the "higher firepower, lighter weight" of the carbine when compared to the BAR. Shades of the more recent photos of the Garand clip and M16 magazine! I still prefer the BAR, though!

Has anyone solved the January photo yet? I'm still working on that one—never say die.

Jon Carter

A Oh Jo-o-on, that's a quarter!

MP-3 I'm writing in about the Mystery Photo in the February issue and quite

frankly I smell an ambush. The magazine on the left is a 20 round BAR clip. The one on the right is a 15 round M1 carbine clip. But wait! It can't be that easy can it? If I'm right, please cough up an RK1. If I'm wrong then you got me! By the way, if you ambush a Kentucky boy, you've accomplished quite a feat.

Keep up the good work on an excellent magazine.

Jeff Stokes

PS. I'm still waiting on work from you about if it's OK to use a piece of 3" rigid conduit to make a working reenactment mortar. Feel free to send this info with my award, Dan!

A Jeff, an ambush is a state of mind. Before you make a functional "mortar," make sure that it is not in a caliber that anyone has ever manufactured an HE round for. I would get the 3" question answered "in writing" from Technology Branch, ATF.

MP-4 Your February Raffica Mystery Photo is a magazine and cartridge for a double-sized BAR and M1 carbine used in training the military.

I had the BAR and carbine magazines and ammo figured out real quick, but the quarter threw me for a loop. Then I figured out that the magazines couldn't be an original size or they would have been bigger in proportion to the quarter. That's when I knew they had to be for the double-sized training rifles.

Thanks for the brain teaser. I read *Machine Gun News*

from cover to cover as soon as I get it. Keep up the good work!

Sincerely yours,

Stephen Otto

A See, Jon, once you figure out that is a quarter instead of a dime.....RK1 to you, Stephen.

MP-5 Regarding the February Mystery Photo.

These are the magazines and ammo made in the early 1960's for the U.S. Army Training Aids M21 and M23.

These "guns" are huge double-size aluminum mock-ups of the M2 Carbine and BAR. (The M21 Training Aid is the M1 Carbine and the M23 is the BAR.) These training-aid guns were issued with double-size plastic "cartridges," as shown in the photo, to demonstrate the feeding and extraction/ejection mechanisms of the guns being studied.

In addition to the Carbine and BAR, the Army also used similar double-size training aids of the M1 Garand and M1919A4 Browning.

The enclosed photocopies taken from TM9-6910-203-14 show these training aids, which were originally issued in a large

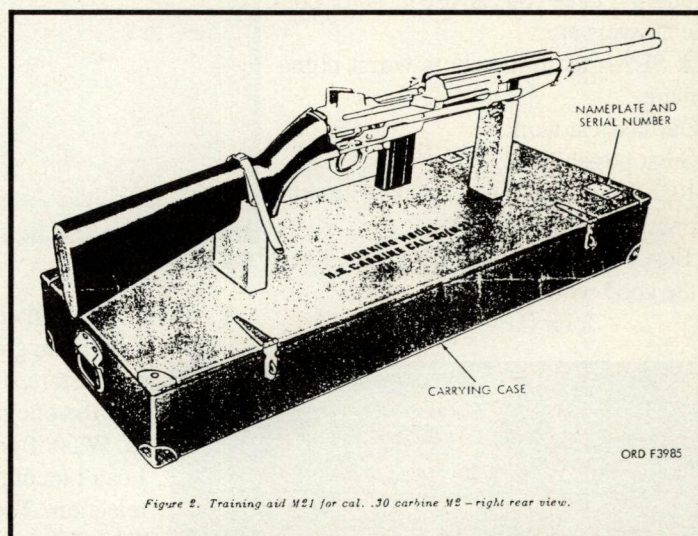


Figure 2. Training aid M21 for cal. .30 carbine M2 - right rear view.

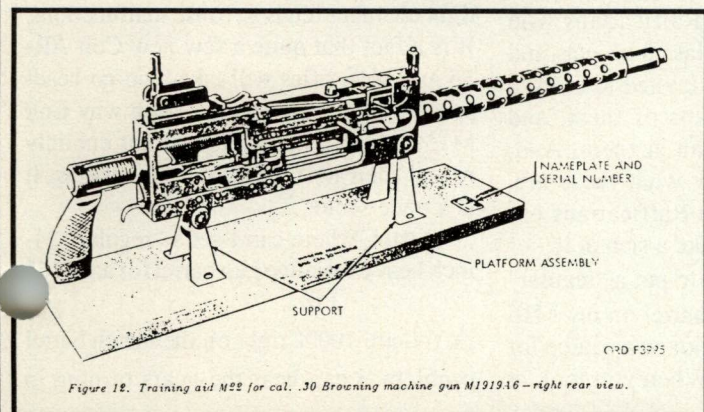


Figure 18. Training aid M22 for cal. .30 Browning machine gun M1919A6 - right rear view.

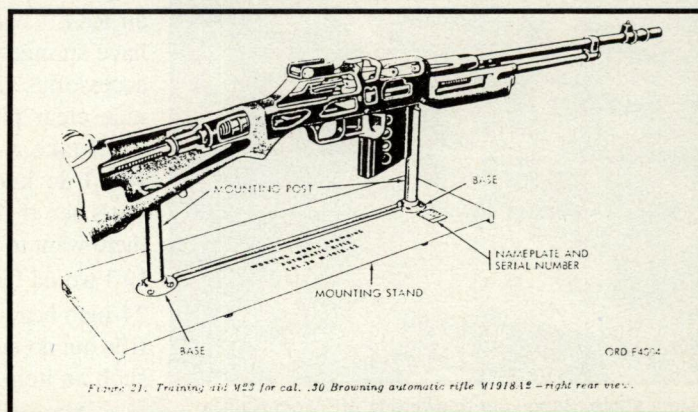


Figure 21. Training aid M23 for cal. .30 Browning automatic rifle M1918A2 - right rear view.

wooden storage chest. Years ago SARCO sold many of these sets to collectors, and many gunshops bought them for window displays. We still have a few incomplete units and some left-over parts kicking around in the warehouse—interested parties should inquire.

Sincerely,
Glenn de Ruiter
Sarco, Inc
Dept. MGN
291 North St.
Saco, ME 04072-0890

A An RKI and a free blatant plug for Sarco.....

MP-6 I think I finally know what the Mystery Photo appears to be in the February 1995 issue of *Machine Gun News*. The magazine on the left is for a 1918A2 BAR rifle, and the other magazine on the right is for a M1 or M2 .30 cal. carbine. I would like to say to the whole staff at *Machine Gun News* keep up the fine work.

Koob in Indiana

A Not Quite there, Koob.

MP-7 Begging an RKI, I am enclosing a Polaroids of "parts" for your Mystery Photo to contest. I hope you can use it. Three possible answers are:

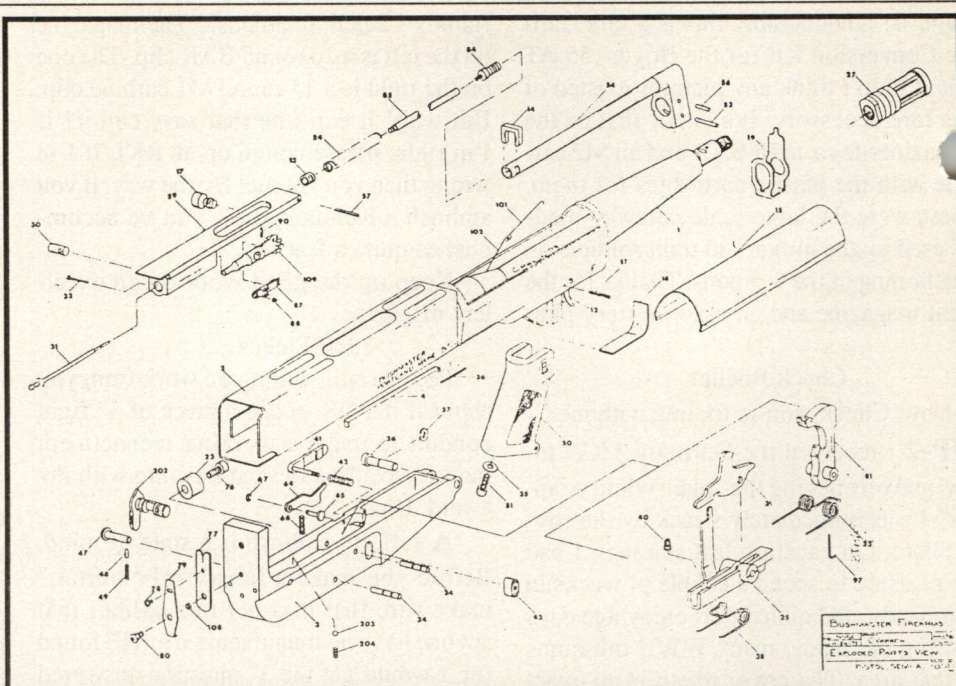
- A. A SEAL team members worst nightmare.
- B. Our taxes at work.
- C. Great possibilities.
- D. 10/20 years making big rocks into little ones.

Best wishes on a great magazine. Keep up the good work.

John C



Mystery photo. Send your answers to MGN c/o Raffica.



The Bushmaster.

A John, I wasn't really having a contest where you guys send in photos to play "Stump the Chump" with me. I'm the one putting these photos in. What if you send me one that I can't identify? Can I handle the rejection? The loss of face? Probably.... "I ain't no x-pert, I is just an RKI." You Rafficarians who have strange Class 3 objects and accessories are invited to send in nice clear photos of them, and we'll take a stab at them. And, yes, I do know what these are. Let's see if the Rafficarians out there want to take a stab at it.

Q I would like to put a "regular" 24-inch heavy barrel on my M16 rifle but do not know a source for such an item. When you look at

catalogs or ads from suppliers of AR-15/M16 parts, you will see heavy match 24-inch barrels for sale. From what I know, these match barrels are not suited for machine gun use. Match barrels have tight chambers and the gas port size might not be appropriate. Chamber size is very important for reliable full-automatic fire. A tight chamber tends to cause malfunctions. It is a fact that quite a few new Colt AR-15 and M16 rifles will take a no-go headspace gauge. This is one reason why Colt M16s are so good. Colt will not publicly reveal their M16 chamber dimensions. It is a trade secret.

Again, where can I get a "regular" 24-inch heavy machine gun barrel for an M16?

J R

A You are 100% right on the match barrel problem. I can hear the gears turning in

brains all over America right now, as they realize that part of the problem with their tricked-out, long-range, super M16 that shoots flea butts at 200M, but dies on full auto..... As for as where to get a 24-inch barrel that isn't match grade... I have never seen one. Most of the manufacturers that I know would only make a 24-inch barrel match grade. They are going for the "match" shooters—MG folks are not their target sales group. If any of the Rafficarians out there have knowledge of a non-match 24-inch barrel that isn't a reject, send it in. (Aside: if you have the Colt chamber dimensions—send those in—I won't tell who you are, but I'd love to see them.)

Q Could you please tell me all you can find out about the Colt or Bushmaster ARM Rifle/Pistol. Usually, when I look it up in various books, it only gives a paragraph or two and covers exactly what I learned in the other books.

Jeff

A All that I can find out about them? I've owned quite a few of these rare beasts over the years. The original manufacturer was Gwinn Firearms out of Rochester, NH. Then, Bushmaster Firearms of Portland, Maine took over. Most people are interested in the pistol variation, although a rifle was manufactured. Colt did make one as a prototype. In a lot of ways, the Bushmaster is a cross between an M16 and an AK47, using the gas system style of the AK. They use a lot of M16 parts, an M16 magazine, and are in .223 caliber. The Bushmaster was manufactured in semi and select fire models. We are going to have an article on this machine pistol in future issues of *MGN*.

Q Could you do a feature article on changing AK barrels? I think many of your readers would like to remove the carbine length barrels from their AKs and replace them with RPK barrels that are coming into the country. Doing this is legal and they make neat looking RPK LMG live fire replicas!

Jack

A There are a lot of AK variations that entail different procedures for barrel removal and installation. I'm going to throw this one out to the Rafficarians to see if anyone wants to do a comprehensive article. The most common ones are pressed in and pinned into proper position. Not all barrels will interchange—for instance early Vietnam Era are screwed in, as are Russian

and most other clones. There is no way I could cover them all here. RPK barrels have a different (greater) diameter than AK barrels. It would be a lot of work to make one fit and function safely. The current MAK style semi-autos that were being imported from China will take the RPK style barrels that the Chinese were making to fit the AK receiver. You end up with an extended AK barrel that looks like an RPK, not an RPK barrel ON an AK.

Q I have a legally registered receiver Uzi.


I recently bought a surplus parts kit for spare parts "just in case." Well, I found that many of the parts will not interchange on a semireceiver, one in particular that I need is the sear. It looks different than the one in the gun, and when I install it, I cannot pull the trigger. It's stuck. It seems like the stops on the sear are too large for the sear slots that are cut in the receiver. What is the best way to fix this? Cut the sear or enlarge the holes in the receiver? HELP!

Also, do you know where I can purchase individual Uzi parts such as a spring kit or other small parts? A .22 conversion kit? What happened to all of Group Industries' left over parts? Great magazine *MGN*. Keep up the excellent work.

Lost and Confused

A I need to know more about your "registered receiver" before I can answer your question. Interestingly enough, Stan Andrews and I had a conversation that relates to this just the other day. He had a question about some work to be done on a RR Uzi, related to the barrel, and spoke with ATF Technology about it. The answer brings a focus to an old issue that you never hear mentioned anymore, but all Class 3's should be aware of.

In 1986, when 922.0 (the ban on further manufacture for private ownership) was passed, there was a lot of running around trying to figure out what did and what did not qualify as a legal conversion. In the Uzi carbine, there were two basic ways to register the receiver. There is a block in the semi-auto receivers that must be removed before an original machine gun bolt will function in the Uzi. Some conversions were done by cutting a slot in the bolt. Normally, the slotted bolts were registered as a conversion piece, but a lot of them were just slotted; then, the receiver was registered as a machine gun. (Make sure that you are not in possession of a slotted bolt and no registered receiver—


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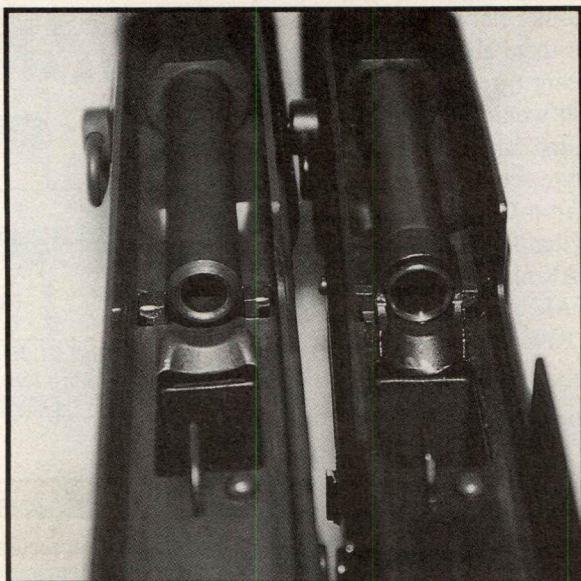
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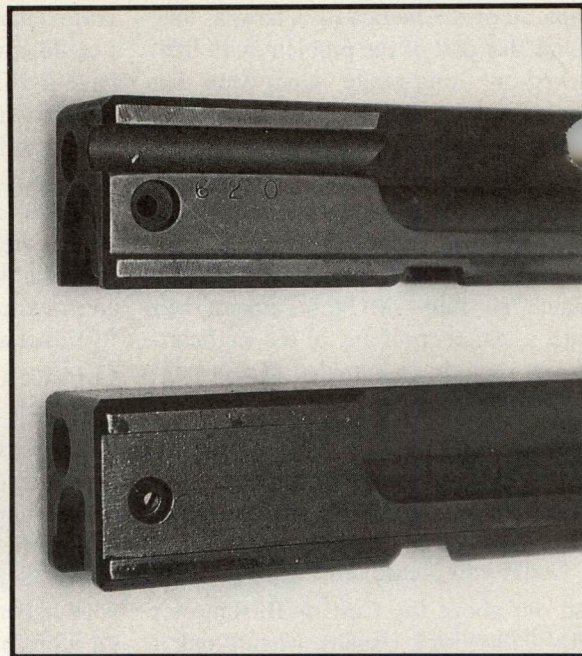
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the slotted bolt is a machine gun by itself!)

In many cases, the barrel ring was not cut. This ring keeps an original Uzi SMG barrel from going in the semi-auto gun. If the conversion was done with a slotted bolt, and the receiver block was not removed, then that barrel ring cannot be cut out. Likewise, if the receiver was not altered to allow the original SMG sear to fit, and an altered semi sear was installed, you cannot install the original SMG sear.



Uzi barrel comparison.



Uzi bolt comparison.

Q Can you help me find the address to James Leatherwood, the maker of the A.R.T. scopes? I got a hold of a government model A.R.T. II scope but the guy couldn't find the manual. If you know the address of the company or know someone I could get a hold of, it would help me out.

Thanks
D. Brown

A If any of you Rafficians out there know how to contact Mr. Leatherwood, please write in and let us know.

Q Howdy, Dan! Thanks fer publishing my "Thank You" note (I think). Here's a heads-up for those shooters who have Internet access; there's a mailing list of Class III shooters, dealers, and manufacturers on which relevant questions, product reports, and shooting yarns and lies are circulated. It's most informative and entertaining. Interested 'netters can drop me a line at <whit@cs.utexas.edu> for an application.

Regards,
Whit

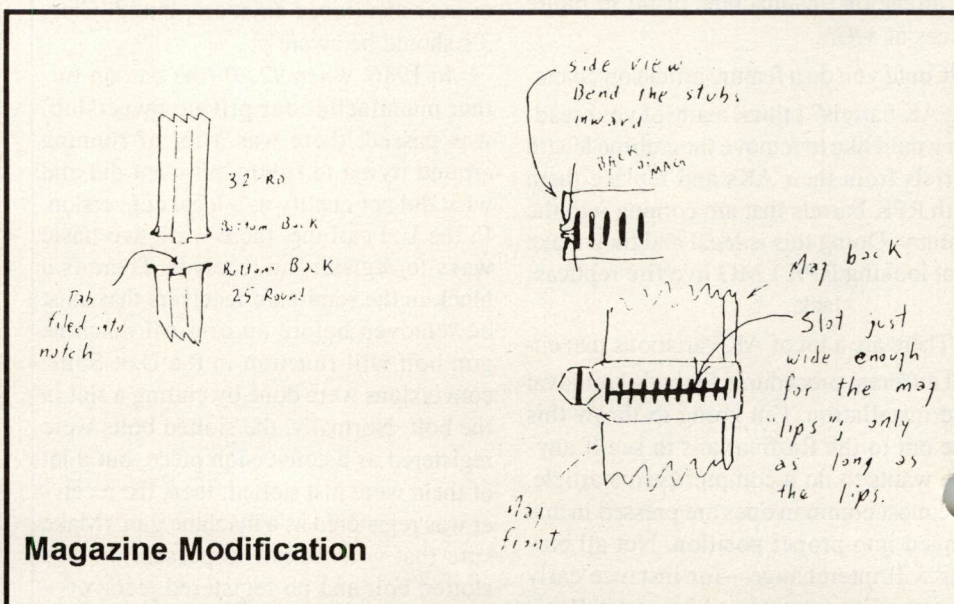
A So, Whit, are you just planning on getting me to mention this in Raffica, or were you going to send me a copy to look at, or...? Oh, I have to go to the Internet. I get it. Now I have to figure out the Internet. I've finally mastered getting my modem to work, so now it's time for a new challenge. Vida (*MGN's* publisher) says that people using the Internet can E-mail at *MGNNews@aol.com*. *MGN* web pages for the Internet are under construction.

Q First, I love *MGN* and read it cover to cover the day I get it. I especially enjoy Raffica. I'm new to the full-auto world. After some of my shooting buddies let me use their guns in a couple of subgun matches, I was hooked. I got to try out a Colt 9mm, an MP40, a Thompson, and a couple of MP5s. The owner of the Colt 9mm (with auto-sear) decided to let it go and I jumped with both feet. After the long 100 day wait, my transfer went through and I was able to take possession of my prize.

The auto-sear works great in the 9mm, but it also works great in my AR parts gun in .223 and just as well in the same gun with the Ciener .22 LR kit installed (little bit of polishing required where the bolt contacts the bullet nose, and also sensitive

to ammo type). All in all though, the .22 kit buzzes like a saw with the right ammo! That's one reason I opted for the Colt 9mm with auto-sear; I got three calibers of full-auto with one transfer. The other reason was I couldn't quite swing the cost of an MP5. They all run great with the auto-sear. I tinker with all my weapons to one extent or another and have been working the Colt into "my" idea of a match gun. At the matches most MP5 shooters seem to have 72 round drums. I can't swing the current price of the same for the Colt, but for one dollar and a couple of my existing mags, I got close.

So, here's my "hint" that you may want to pass on to any Colt 9mm shooters.



Magazine Modification

"I took the end plates off two factory Colt mags, one 25 round and one 32 round. There's a small tab that extends below the bottom of the mag on the back. This tab is apparently to keep the mag end plate from pushing off the back. On the 25 round mag, I filed the tab down into a notch that the tab on the 32 round mag would fit into. Now, with the springs and spring-bottom end plates in the mags, you can clamp them bottom to bottom with a specially prepared automotive hose clamp. The key here is to use the right clamp and to "prepare" it properly. Start with a clamp that has the slots in it all the way around (these are the slots the clamp screw rides in). With the clamp snug with the clamp screw at the mag front, mark where the clamp overlaps the lips on the bottom of the mag which hold the mag end plate. These are prominent on the Colt factory mags. Using a Dremel tool cut-off wheel (the heavy-duty ones work best) slit the clamp across the screw slots. Make the slit just barely smaller than the thickness of the bottom lips when the two mags are butted together, and make it only long enough to be over the bottom lips (don't cut it all the way around). Cutting the slit along the screw slots will leave small tabs which you want to bend slightly inward using pliers (just enough bend to make them spring down and inward against the mag lips when you clamp the two mags together.) Now, just put the internals in the two mags, coerce the springs in until the bottoms are butted together, and then clamp them in place.

This makes for a very rigid clamping of the mags, and the spring and followers are free to travel the entire length of the assembly. It makes for an interesting looking mag that you can load 55 rounds into (from either end no less). It has so far worked as reliably as an individual Colt mag (totally in my gun) and also locks the bolt open after the last round! I stick with loading from the 32 round end, but it does work either way. You can probably stick a couple more rounds in there since there's still quite a bit of spring travel in the 25 round mag visible through the round counter slots, but I haven't tried more than 55 rounds. I don't know if the spring is strong enough to push many rounds upwards.

You can do the same with two 32 round sticks, but it gets a little lengthy out the bottom of the gun, and there's the

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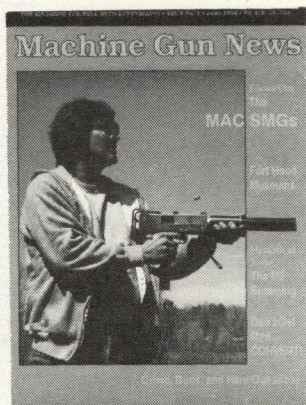
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question of spring strength. Put a piece of black foam pipe insulation over the 25 round stick up to just above the hose clamp and down below the end of the assembly (to protect the 25 round mag's feed lips when you load the monster), and it doesn't look bad either."

So there's my hint to other Colt shooting Rafficarians. Now, if my flat-top receiver would get here and my suppressor transfer would go through this decade...

Dr D from Alabama

A My views on monopod mounts for SMG's are pretty well known. Neat, but not too practical. I guess for the competition shooting it would save some time. Send in some photos. Has anyone gotten a belt-feed or hopper mechanism for 9mm perfected yet?

Q Concerning your inquiry from "Detlef J." (February 1995) concerning his Italian 47/32 cannon.

This is not a mortar as you suggested. It is a light anti-tank gun used to accompany infantry. The actual measurement of the case is 47x195mms. It is a nearly straight, rimmed case.

The designation 47/32 represents the caliber of the gun with the length of the bore expressed in calibers. In this case the length of the bore is 32 times 47mms. Most Italian weapons above rifle caliber are designated in this way. Some U.S. guns such as the famous Navy 3" 50 also are identified in this way. In the case of the 3" 50 the bore is 50 times 3"s in length.

European armies have been far more notable for the expression of gun identifications in this way than the U.S. or British have. The illustration which you ran with your reply was for the famous Italian Brixia Mortar. This mortar uses a small rosette crimped blank made from a rifle cartridge case to propel the mortar bomb projectile. We would be happy to answer any further questions which you might have relating to artillery or explosive ordnance matters.

Best regards,
Dr. J.R. Crittenden Schmitt
Courthouse Station
PO Box 4253
Rockville, MD 20849

(Contributing Editor for Artillery and Explosive Ordnance)

A I said I didn't know much on the subject of Italian cannons or mortars. Guess I proved it, too. Anyway, I am very glad to

have this information, and MUCH happier to have you as a contact on these questions. Thank you for the offer of information.

Q A question for the RKI: I have a Ruger MK II pistol and an old Glenfield 22 bolt action rifle which have threaded barrels for my JR Customs Navy suppressor. I've noticed that occasionally while swapping back and forth between the pistol and the rifle, the bullets appear to be barely touching the baffles and sending a round tumbling. Usually, I can correct the problem by removal of the suppressor, cleaning around the threads, and reinstalling the can. It seems to alleviate the problem. I usually use a lock washer between the barrel and can for a secure installation. Is this bullet tumbling a normal occurrence for those who swap cans around from several firearms? The reason I'd like to know is that I'd like to have the barrel threaded on a match grade 77/22 rifle, but don't want to continue to have problems with tumbling bullets. I also don't want to wear out the threads on my suppressor. Do you know of anyone who has had this problem while swapping cans around? Seems to me as long as the threads are straight and concentric with the barrel, you should be able to swap cans around from a large number of rifles or pistols with no problem.

SRB

A Just because someone calls it 1/2-28 doesn't mean will perfectly match up with another machinist's 1/2-28. It depends on who does the threading, and several other factors. I would make sure that the same person did the threading, on the same machine, for each barrel that I was going to use a suppressor on. The wear on the cutting tool, wear on the machine, and differences in pitch that can vary from lathe to lathe can affect your bullet path. And—you should probably "lose" that lock washer. The variations that that introduces could also be a big part of your problem.

Questions to:

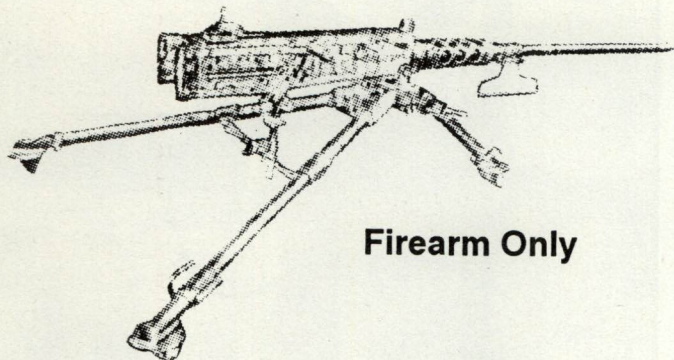
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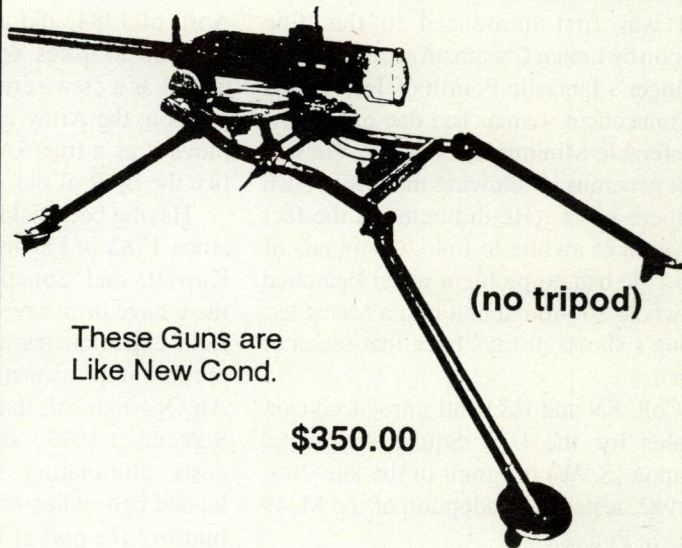


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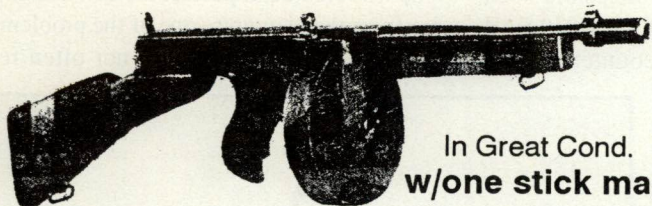
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I have been seeking the "perfect" belt-fed. In this pursuit I have set my own parameters for perfection, but as one grows older perfection sometimes is an illusive quest. My journey has brought me to the Fabrique Nationale's Minimi. The last weapon to hold this designation in my life was the venerable BAR (Browning Automatic Rifle).

I was first introduced to this fine weapon by Lamar Cheatham at one of Doug Oefinger's fantastic Fourth of July shoots in Connecticut. Lamar had one of the few transferable Minimis in existence. He was most generous in allowing me to fire such a superb piece. (He did bemoan the fact that it takes awhile to link 200-rounds of 5.56.) He had no problem when I emptied the whole 200-round belt into a Mercedes. (Doug's shoots always have that touch of class.)

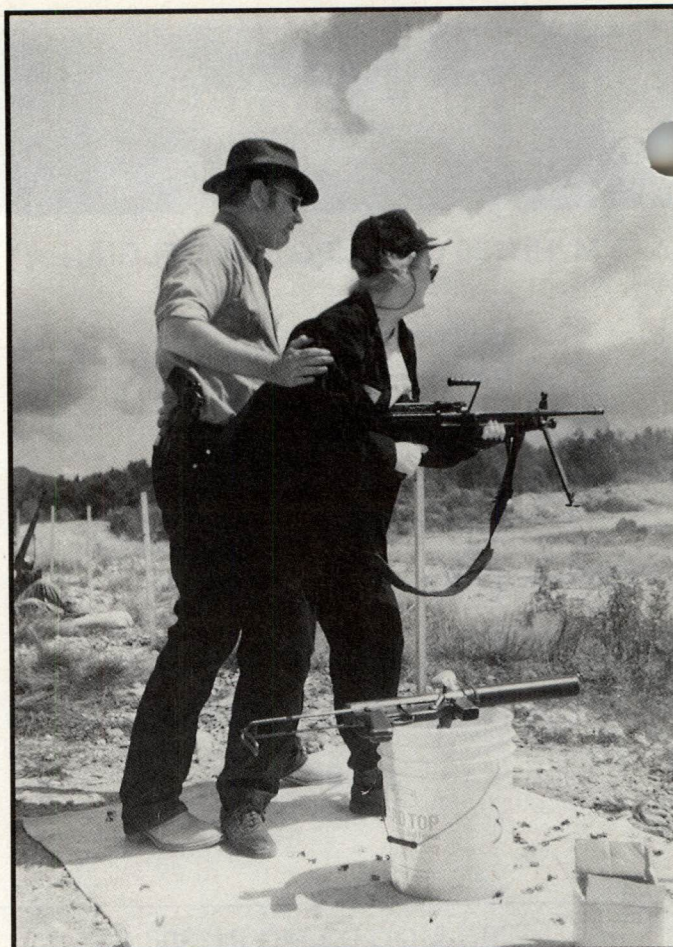
Colt, FN and H&K all introduced candidates for the U.S. Squad Automatic Weapon (SAW) program in the late 70's. In 1982, tests led to adoption of the M249 by U.S. Forces.

The Marine Corps was first to see the merit of the Minimi. Since its adoption in February of 1982, it has undergone several modifications; the most obvious has been

receiver would crack under repeated use. An ingenious buffer system similar to that used in the venerable BAR readily solved this problem.

The 82nd Airborne first got the M249 in April of 1984, and unlike the Marines who used it as a crew-served weapon, the Army employs it as a true SAW like the BAR of old.

Having been fielded since 1982 in Panama, Kuwait, and Somalia, there have been several field expediencies and product improvements. An Ops manual, dated September 1983, suggests eliminating the loaded belt indicator to improve the pull of the belt in adverse conditions. Sand and dust trials indicate the need for an articulated dust cov-



Jim and Pat Ballou celebrated their first anniversary firing the Minimi.

FN - Minimi SAW Perfected

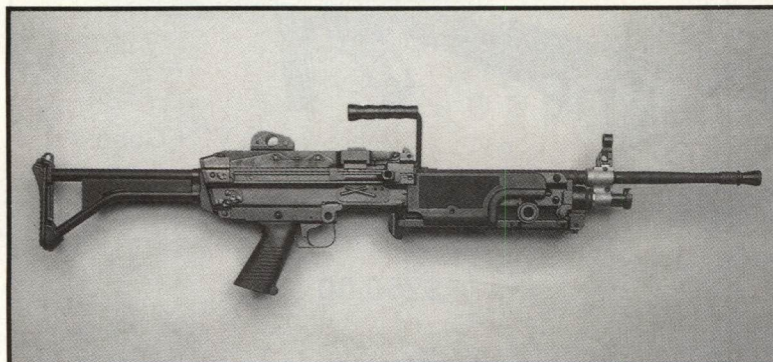
by JAMES BALLOU

the introduction of a heat shield. They have also introduced a PIP (Product Improvement Program) shoulder stock that is buffered to enhance the durability of the weapon. It seems that the back end of the

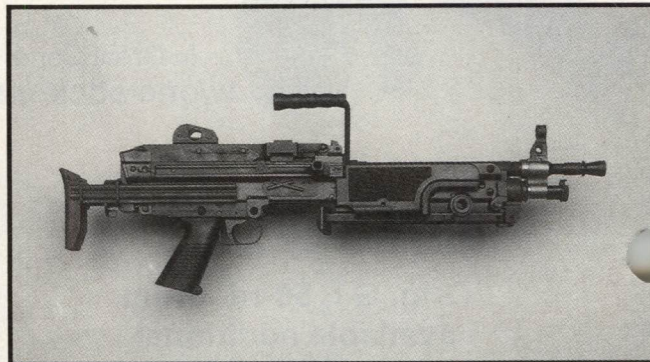
er to remain closed after firing. There also was a requirement for a paratrooper model with shortened barrel and collapsible stock.

The best deployment of the M249 SAW is either tactical raid or counter ambush

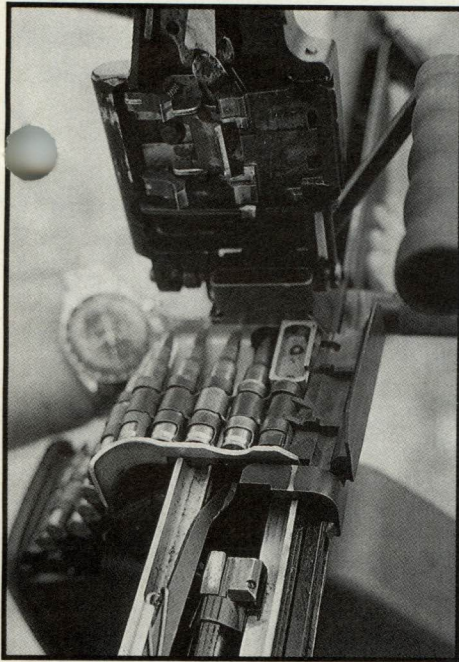
where superior firepower is paramount. To this end, a 200-round polymer box magazine was created to protect the belt and ammo from the elements (one of the problems with the M60). A problem not often re-



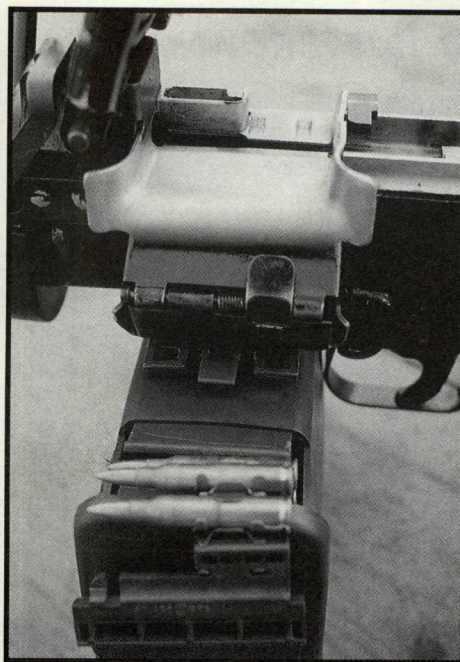
The 5.56x45mm standard model Minimi. (See technical data at right.)



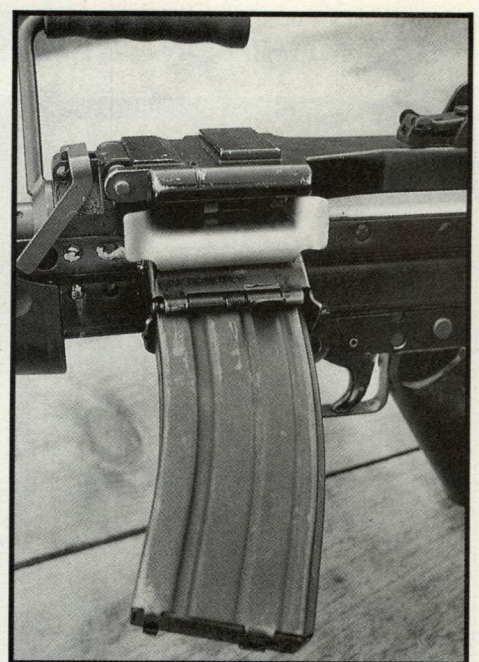
The 5.56x45mm para model Minimi. (See technical data at right.)



Ammo on feed tray with starter tab.



Feed tray with 200rd box in place. Note opening for 30rd mags.



30rd mag in place.

ported was the noise the belts made in the plastic boxes. Because of this a cloth belt holder for a 100-round "teaser" belt was developed for Desert Storm.

The Minimi was obviously adopted for the 64 grain SS109 cartridge, but mine will also function with 55 grain ball M193. G.I. The ammo comes in 4-1 combat mix of green tip M-855 and orange tip M-856 tracer. There is also a neat starter tab that makes loading in the dark fast and easy. For me, the Knob Creek Night Shoot is safer and faster. In the field, linking the ammo on M-27 links is a cinch. Just ask my wife, Pat, what we did on our wedding night at the June 93 North Country Shoot.

The weapon may be shoulder fired, hip fired (John Wayne style), prone bipod fired, or with M-11 adapter it may be fired from the tripod mount M122. (What we know as an M-2.) They also make a bracket to mount a night vision sight AN/PVS-4. Inside the handguard are stowed special tools for maintaining the weapon in the field. The most important tool is a scraper specifically for the gas cylinder and the gas piston.

The genesis of my particular Minimi is rather an enigma. It functions so well, I am positive that it must be a prototype. There is a dearth of markings: no fancy logos—just the bare minimum.

After discussion with David Rosen at Knob Creek, it would appear the best scenario was a demo gun for the Mexican government. Having worked for Viking in the early 80's, I saw the tender care lavished on the prototype demo weapons. The gun's remarkable ability to digest thousands of rounds without a bobble can only be attributed to its special care in production or could it be that FN got it right again. After all, the MAG uses a BAR lock work—a tried and true formula.

As for performance, I have put more than 12,000 rounds through my Minimi; most of these have been 200-round bursts that are such crowd pleasers at M G shoots.

This is not the recommended mode of fire, but it indicates the superb design and durability that is so characteristic of all FN Weapons Systems. Mine also functions as flawlessly with 30-round magazines. Unfortunately, this is not the case with issue M-249s.

On the prototype weapon you will notice the shoulder stock is

Technical Data

	<i>Standard Model (7")</i>	<i>Para Model (7")</i>
Overall weapon length:		
<i>with fixed tubular butt</i>	40.94 inches	
<i>with extended sliding butt</i>		35.16 inches
<i>with retracted sliding butt</i>		28.98 inches
Overall barrel length		
(without extension or flash hider)	18.35 inches	13.66 inches
Line of sight length	19.49 inches	19.49 inches
Maximum height on bipod (high position)	18.30 inches	18.30 inches
Weapon total weight	15.06 lbs	14.88 lbs
Barrel weight	3.53 lbs	3.24 lbs
Cyclic rate of fire	700 to 1000 rpm	700 to 1000 rpm
Effective rate of fire (with barrel change)	500 rpm	500 rpm
Muzzle velocity	925 m/s	866 m/s
Effective range	>1000 m	>1000 m

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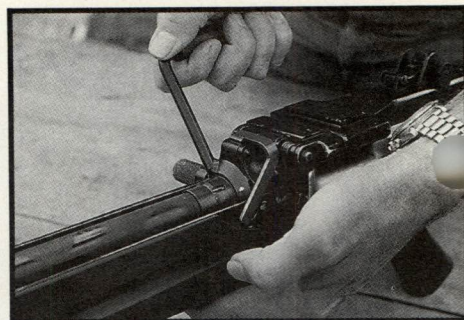
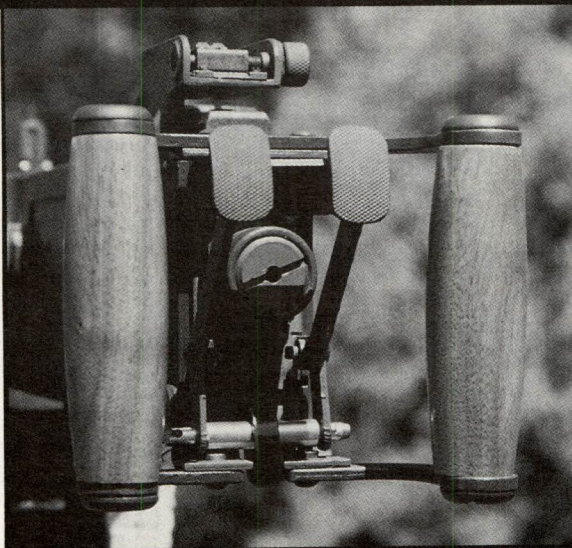
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Two hand barrel change. With left hand ready to hit lever, right hand grasps barrel handle.

different than the newer style stocks and they do not interchange. The Minimi weighs 15.5 pounds empty, and 22 pounds with a loaded 200-round belt. Overall length is 40.75" with a barrel length of 18.5", six grooves 1 in 7" twist. Also, notice the top cover, feed tray and receiver rails are hard chromed. In addition, the dual rails upon which the bolt carrier rides are hard chromed. It is these dual rails which contribute to its smoothness. The Minimi is fed from a 200-round belted and boxed system that attaches beneath the receiver. A neat system that precludes dragging belts in the dirt and hostile environments. A unique bolt system also allows it to feed from a 30-round M16 magazine without having to change any parts. This is a real plus in a firefight.

The quick-change barrel is nothing if not phenomenal. Remember, the bolt must be in the rear position. Pressing the release lever allows the barrel to be removed from the front with the aid of the carrying handle.

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- ♥ Ruger AC-556K, shorty, folding stock, blue, clean, w/Ciener .22 LR conversion, w/2 30-round .223 mags, 3 .22 LR mags \$1125.
- ♥ Post-Auction MAC/RPB M10-A1, 9mm with RPB M10 Suppressor \$800.
- ♥ UZI, "A" Model, Converted by AMRON Enterprises \$1700.
- ♥ Fleming H&K Sear, new w/SEF metal housing (modified), G3 bolt carrier (original) \$675.
- ♥ Colt Thompson M1928 US Navy (overstamp) s/n 134xx with 2 50-round drums, 10 20-round magazines (Photos avail) \$4000.

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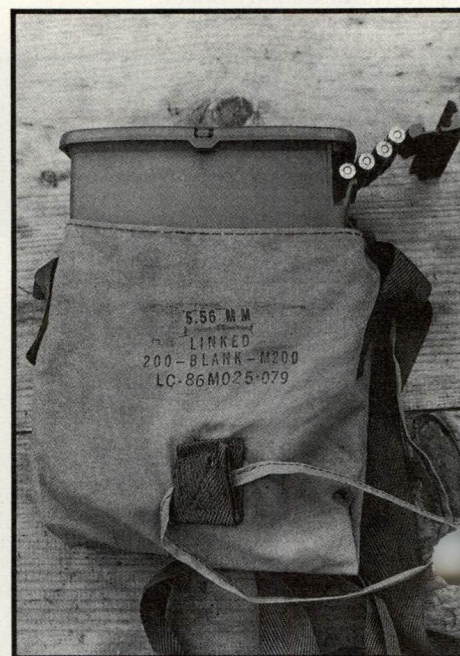
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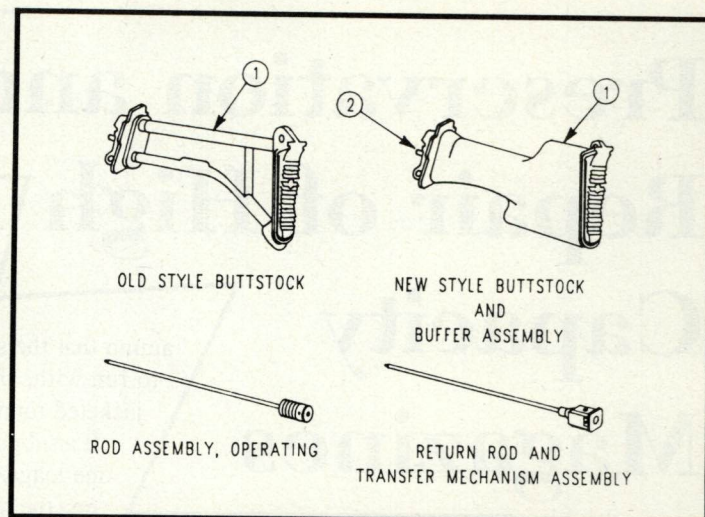
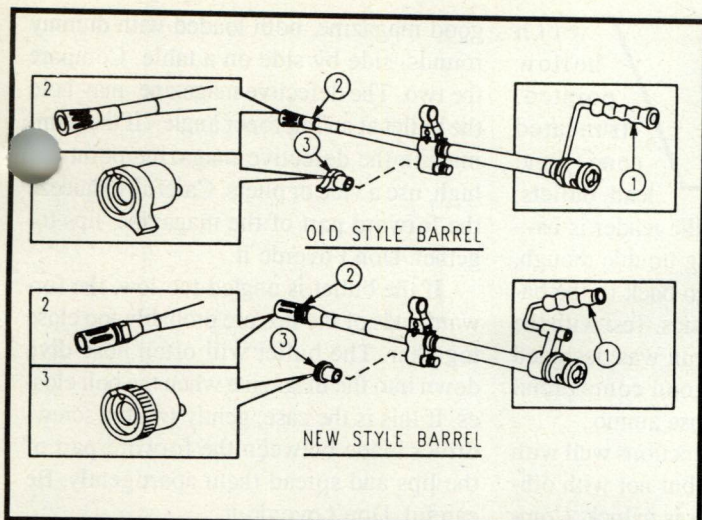
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200rd battle pack marked blanks.



Sometimes, after a 200-round burst, you may have to wait for the barrel to cool as expansion may make it difficult to remove. It is even faster than the Ameli and needs no headspace adjustment. Like most FN MAGS, it has a dual cyclic rate adjustment in the gas piston.

Minimi owners may have a problem obtaining barrels as they are not all alike. There are three. The first is thinner as it is not set up for the heat shield. The second has studs for the heat shield and is thicker. It is also set up with a hard chrome bore.

The last and latest has a new style three-position carrying handle. Also, the new gas collar does not provide for a dual cyclic rate.

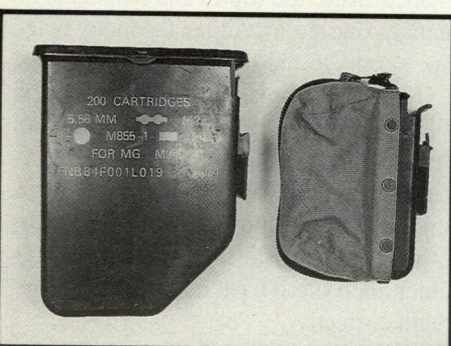
I can vividly remember the last time I

fired my Minimi. Torrents of rain were making the weapon very slippery and the peep sight clog with water. Rick Currier had cleaned the weapon with careful attention to the gas piston and oiled it to perfection.

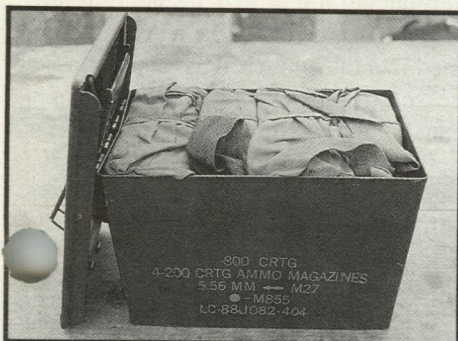
I pressed the trigger and felt the familiar push against my shoulder. At the end of 15 seconds, there was that post traumatic shut down. It had gone through the 200 rounds without

skipping a beat. This gun definitely comes close to perfection. This has to be the neatest and best belt-fed I have ever owned.

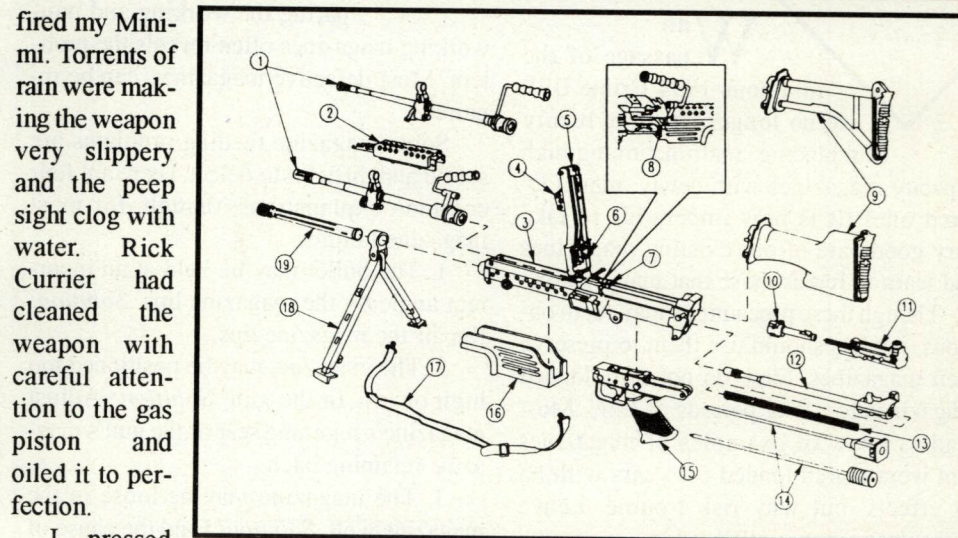
MGN



Special 100rd battle belt carrier on left developed for Desert Storm. Photo by Bharat Parmar.



Special 800rd ammo can new to the system. It is larger than standard 50 cal box.



M-249 field stripped.

Preservation and Repair of High Capacity Magazines

With the passage of the infamous 1994 Crime Bill, we no longer have the luxury of replacing malfunctioning high capacity magazines with newly manufactured ones. It is now imperative to take very good care of our existing magazines and learn to repair those that malfunction.

Though these precautions may seem obvious, readers should use them to preserve their magazines. First, do not store loaded magazines for long periods of time. Most readers know of examples of magazines that were stored loaded for years with no ill effects, but why risk trouble. Leave magazines empty until needed.

Readers should regularly disassemble, clean and lubricate their magazines. Follow the manufacturer's instructions. For long term storage, a generous coat of CLP may be left in the magazines. Before using the magazine again, remove the excess oil. Excess oil inside magazines could ruin the primers. Excess oil also attracts dirt and unburned powder, eventually causing malfunctions.

If the reader has had feeding problems with his subgun, he should initially do two things. First, label and number each magazine. This allows him to identify the good magazines and separate them from the malfunctioning ones. Second, secure a supply of good commercial ammo with jacketed round nose bullets. Test the magazines with that ammo. There may not be a problem with the subgun or the magazines at all, only with the ammo. The author has wasted several hours because of ammo that looked great but caused intermittent failures. Many subguns function flawlessly

with hollow pointed, truncated cone and lead bullets.

If the reader is having trouble though, go back to the basics. Test with the

ammo that the subgun was designed to run with. Use good commercial jacketed round nose ammo.

If a subgun functions well with one magazine but not with others, the reader is in luck. Comparing the working and non-

working magazines often reveals the problem. Most defective magazines can be repaired.

Some magazine feeding problems are subtle and difficult to detect. There are four common explanations, though, for most magazine failures.

1. The bullet may be held at an incorrect angle by the magazine lips. *Solution:* Repair the magazine lips.

2. The magazine may be positioned too high or low in the gun. *Solution:* Adjust magazine's retaining sear or the gun's magazine retaining latch.

3. The magazine may be loose in the magazine well. *Solution:* Find the cause of the looseness and tighten.

4. The magazine is unable to lift a new round to the magazine lips in time for the closing bolt to pick it up. *Solution:* Repair dents, polish inside the magazine. Polish the follower. Replace or stretch the magazine spring.

Determining the problem is the first step toward the solution. Begin by loading a functioning magazine with dummy rounds. Dummy rounds are easy to make. Simply use the bullet seating die to make some cartridges with only a bullet, no powder or primer.

Insert a magazine loaded with dummy ammo into the gun and hold the bolt open. Note the position of the dummy round in relation to the barrel and feed ramp. Note also the actual location of the top of the magazine in relation to the barrel or feed ramp. The defective magazines may hold the cartridges at an incorrect angle or the magazine itself could be positioned too high or low in the gun.

Next, put a defective magazine and a

good magazine, both loaded with dummy rounds, side by side on a table. Compare the two. The defective magazine may hold the bullet at an improper angle. If the dummies in the defective magazine point high, use a vice or pliers. Carefully squeeze the forward part of the magazine lips together. Don't overdo it.

If the bullet is angled too low, the forward ends of the lips are probably too close together. The bullet will often nose dive down into the magazine when the bolt closes. If this is the case, gently twist a screwdriver blade between the forward part of the lips and spread them apart gently. Be careful. Don't overdo it.

It will help to measure a good magazine. Check the gap between the forward part of the lips with a dial caliper. Try to set the defective magazine's lips at the same distance.

If the dummy bullet is held correctly in the defective magazine, insert the magazine into the gun. After it locks into place, pull it down firmly. Be sure that the magazine rests against the gun's magazine latch. Compare its position in relation to the barrel and feed ramp with a good magazine.

If only one or two magazines are held too low, the portion of the magazine, which engages the gun's magazine latch, must be adjusted. A gunsmith can build it up with a TIG welder. Use a dial caliper. Measure all working magazines. Find the average distance from the top of the magazine to the magazine's sear. Adjust the faulty magazine's sears to the same length.

If most of the magazines are too low, it will be simpler to install a new magazine retaining latch in the gun. If a new magazine latch is not available, a gunsmith can increase the length of the worn-out latch. He will add metal to the latch with a TIG welder, then file it back until the magazine is held correctly.

While the bolt is held open, push the magazine upward. If it moves up very far, intermittent failures may result. Typically, the gun will work ok if the magazine is inserted into the gun when the bolt is closed. The closed bolt prevents the magazine from going too far into the gun. If a magazine is inserted while the bolt is locked back, the magazine will go too far into the gun and malfunctions will occur.

If the magazine does move upward, examine it carefully. Determine what portion of it is raised to prevent the magazine from

by CAPT. MONTY MENDENHALL

being inserted too far. If the raised part is bent, straighten it. If it is too short, a gunsmith will have to build it up with a TIG welder and file it to the correct length.

If most of the magazines are held firmly but too high in the gun, the gun's magazine engagement latch may be too long. Replace it or file it slightly until the magazines are held correctly.

Sometimes the magazine both holds the cartridge at the correct angle and firmly at the proper height. If so, grasp the base of the magazine. Apply pressure fore and aft. If the magazine moves forward or back very far, the bullet will be presented at the wrong angle if the magazine moves during firing.

Correcting the fore/aft looseness usually involves adding metal with a TIG welder and filing it smooth. Metal will likely need to be added to both the front and rear of the magazine to hold it centered.

Occasionally, the magazine fits the gun tightly. It holds the bullet correctly and it is positioned properly. The gun will always fire the first round. Often, it will fire several rounds before stopping. An examination of the gun, after the stoppage, reveals that there is no round in the chamber. This problem is often caused by something in the magazine that prevents the bullet from rising in time to meet the bolt as it travels forward. The most obvious cause would be a dent in the magazine.

If a dent is found, the repair is simple. Disassemble the magazine. Put a flat bar inside that reaches past the dent. Tap around the dent with a small hammer until it is raised.

If no dent is visible, check inside the magazine for rough spots. Avoid polishing inside the magazine unless a rough spot is detected. If the finish is removed, it promotes rust.

Check the follower for free movement. Polish it if it is not smooth. Also check the follower for excessive fore/aft or left/right looseness.

Some followers are made of bent sheet metal. If this type is loose, it can usually be spread slightly to remove the looseness. Other followers are cast in one solid piece. If they are loose, they must be replaced or built up with a TIG welder and filed smooth.

If nothing is wrong with the magazine or follower, try stretching the length of the magazine spring about ten or fifteen percent. If a new spring is available, replacing the old one is best.

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10s, M11s or TEC 9s, the magazine must elevate a fresh round very quickly. If the above solutions do not work and the magazine is still unable to lift a fresh bullet to the magazine lips before the bolt closes, try slowing the cyclic rate. This is most easily done by handloading a cartridge with a little less powder.

M11s are very tolerant of reduced loads. Be careful though not to reduce the powder charge more than necessary. A very light load could leave a bullet stuck in the barrel. The next round fired would damage the gun and possibly the shooter.

One should never fire any type of gun without eye protection. Always test new loads with only one bullet in the magazine. Check the barrel after each shot.

If single rounds are functioning ok, load three rounds and test again. Don't load a full magazine. If the powder charge is too light, the gun might not stop firing when the shooter releases the trigger. Under certain circumstances, the cartridge has enough power to blow the bolt back and eject the spent cartridge. It does not travel far enough rearward, though, to be caught by the trigger sear. The bolt will run forward and pick up a fresh round. The gun will continue firing until the magazine is empty.

Occasionally a magazine will feed the round ok, but the gun frequently does not fire. After a stoppage, the bolt is forward on a live round. The primer may have a shallow firing pin dent. If the gun fires from a closed bolt, the gun is probably out of time. No amount of tinkering with the magazine will fix that.

If the gun fires from an open bolt and the headspace is correct, the magazine is probably slightly too high. As the bolt travels forward, it drags over the top of the magazine. Friction slows the bolt. A light primer strike and a misfire is the result. This problem is easily cured. File a few thousandths off the part of the magazine that engages the gun's magazine latch. Be careful to remove no more metal than is necessary.

The preceding instructions applied to single position feed magazines. A dual-position feed magazine is adjusted in much the same way. It is more complicated though, because there are two feeding positions to adjust. Often one column will feed correctly and the other won't. Identify the malfunctioning column. Adjust only the magazine lip on the malfunctioning side. If both columns fail to feed, check

the magazine positioning problems that apply to single feed magazines.

Older Zytel magazines for M11 subguns occasionally split along the seam. John Norrell, the well known Class 2 manufacturer, can repair them with a steel "staple."

The plastic lips of the Zytel magazines, used by the M11, wear away with use. Eventually, they will not hold the cartridge in correct alignment with the barrel. When this happens, the point of the bullet strikes above the barrel as the bolt closes. Russell Dye, an accomplished 1928 Thompson competitor, told the author about a technique that he uses to extend the life of worn out Zytel mags.

The only tools that Dye uses to repair the Zytel M11 mags are kitchen matches (the kind that strike anywhere) and a butter knife with a short, thick blade. Russell heats the blade until the match flame is too close to the fingers to hold. Using the heat of only one match prevents overheating the blade and damaging the magazine.

Russell presses the hot blade inward on one magazine lip for a few seconds until the blade cools. Russell then reheats the blade with another match and applies it to the other magazine lip.

Russell Dye says that the repaired Zytel magazines work fine for a while. Eventually, however, they will need another heat treatment.

The ultimate solution to our magazine problems can only be solved politically. We must politely keep up the pressure on our senators and representatives to repeal the magazine ban. Let them know that if they do not represent your views, they will be opposed by you in the next election.

If you are not a member of NRA and NFA, shame on you. Join both. Gun Owner's of America and Jews for the Preservation of Firearms Ownership are worthy of your dollars too.

Encourage friends, relatives and co-workers to join. If you must, give them a gift membership in the NRA. Get these people registered to vote. Make certain that they do vote. Carry them to the polls if necessary.

The antigunners are marshaling their forces. The next election is less than two years away. If we relax and think that someone else will do the job for us, the antigunners will sweep the next election.

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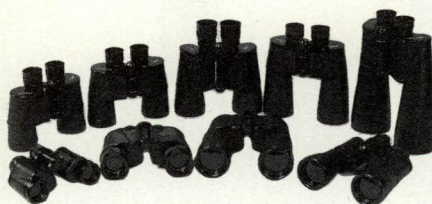


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THE OWEN GUN

by JAMES O. BARDWELL

HISTORY

The Owen gun was designed by Australian inventor, Evelyn Owen, between 1938-41. It was the first submachine gun either designed or made in Australia and came just in time for use in World War II. The production Owen gun was improved by design input from Gerard Wardell, an executive at Lysaght's Newcastle Works Pty. Ltd., the firm that oversaw the making of the gun, as well as making many of the components at their Port Kembla, New South Wales, facility. The story of how Lysaght's found Owen and his gun is rather colorful.

Owen's family lived adjacent to Vincent Wardell, brother of Gerard and another executive at Lysaght's. In 1940, Vincent

Wardell discovered a prototype gun in a sack behind the stairs at Owen's home, after Owen left it there for a moment. Owen got to talking to Wardell about the prototype, and his unsuccessful attempts to interest the military (Owen was then a private in the Army), and the project took off from there. Lysaght's got Owen assigned by the Army to assist them with his gun. Owen was discharged from the Army in 1942, and then left Lysaght's in 1943. He then ran a lumber mill and died in 1949, at age 33.

Lysaght's was a sheet steel fabricating company and outside the Australian military procurement process. As the gun was designed and manufactured outside the regular channels, there was resistance to it on

the part of the Australian military. The effect of this resistance, and how pronounced it was, is a matter of controversy even now, with two recent books on this subject. Gerard Wardell, together with his brother Vincent, worked hard to get the gun accepted by the military. They enlisted help from the press, to gain public support, as well as from friendly government employees, both military and civilian. Military officials favored the Austen, a locally modified version of the British Sten gun (see *Machine Gun News*, October 1993, page 20) despite the Austen's poorer performance in military trials of both guns.

In the end both were made, although the Owen was made in greater numbers (approximately 45,000 versus approximately 20,000 Austen's) and reportedly favored by troops over the Austen. Approximately 12,000 Owen guns were made with a solid trigger frame and around 33,000 with a skeletonized trigger frame. The parts for both otherwise interchange, and both are marked Mk 1 on the gun, although the skeletonized ones are sometimes referred to as Mk 1* models. Most of the solid frame guns were made in 1942 and most of the skeletonized ones in 1943 and 1944, but production overlapped. The guns were marked with the last two digits of the year of production on the trigger frame, after the Mk 1 designation. Two hundred ten Mk 2 guns were also made and differ from the Mk 1 guns in the attachment of the buttstock and the trigger group design, among other changes, all done to make the gun lighter.

Owen guns were used by Australia during World War II in battles with Japan in New Guinea and throughout the Pacific theater. They served with the Australian military into the 1960's and saw some use in Vietnam. They were replaced in the 1960's by the F1, which retained the Owen's top mounted magazine position, but took other features from the Patchett Sterling gun.

DESIGN & FUNCTION

The Owen is a select fire, open bolt design chambered for 9mm Parabellum. The firing pin is integral to the bolt face. It uses a 33-round double column, double feed magazine mounted on the top of the tube receiver and ejects cases downward. Sighting is offset to the shooter's right, and sights are not adjustable. One rather unique feature is the ejector; it is a tooth on the rear of the magazine. Owen thought that the ejector was a weak part of earlier sub-



Owen Mk 1 right side view.

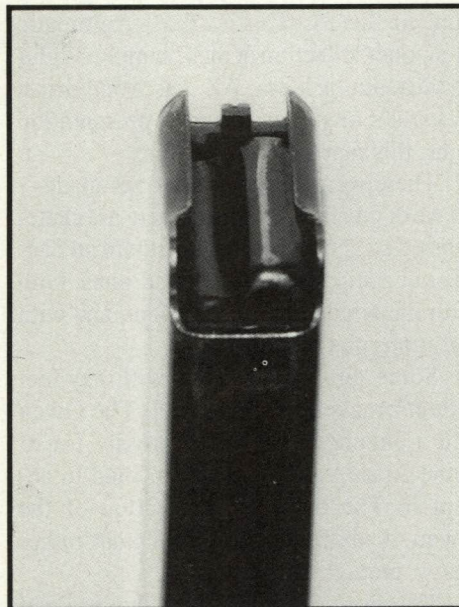


Owen Mk 1 disassembled into its major components.

machine gun designs, and incorporating the ejector into the magazine meant that a faulty ejector was easily fixed by swapping out the offending magazine and trying another.

Such an arrangement also meant the bolt could be removed from the gun, through the front of the receiver, without interference from a fixed ejector. Having a bolt strip through the front of the receiver, instead of the rear, permitted a 1/2 inch thick metal ring at the rear of the receiver, separating the open slot for the cocking handle from the front portion of the receiver, where the bolt and spring are. The recoil spring guide shaft passes through a hole in this ring, and the cocking handle retains it on the other side of the ring. This arrangement effectively seals the part of the receiver where the bolt reciprocates, preventing the gun from being jammed by foreign material entering through the slot for the cocking handle. Dirt is kept from entering the area where the bolt moves at the front by tight fitting of the bolt to the receiver, in bands, in sort of the manner that piston rings function in an engine. This sealed receiver was a major reason why the Owen did so well in military trials as compared to its rivals. On an Austen or Sten, dirt or mud can enter the gun through the hole for the cocking handle and jam the gun.

All major parts of the gun were stamped with at least the last three digits of the serial number; the full number is usually on the barrel, receiver, bolt components, and sometimes the trigger frame. Bolts and barrels were fitted to the gun, and inter-



Detail of the Owen magazine. The metal projection on the rear wall, between the feed lips, is the ejector.

changability without fitting may not be possible.

The trigger group is designed such that each movement of the selector allows more movement of the trigger. Thus, the trigger is blocked in safe, has partial movement in semi-auto (repetition in the Australian parlance) and full movement in full auto. The full auto position is all that is really needed to fire the gun. A partial depression of the trigger will trip the sear and allow semi-auto fire. A full depression will hold the sear out of engagement with the bolt and allow full auto fire. The gun was designed so that it would still fire full auto if one of the three springs used in the trigger assembly were broken or lost. The one that

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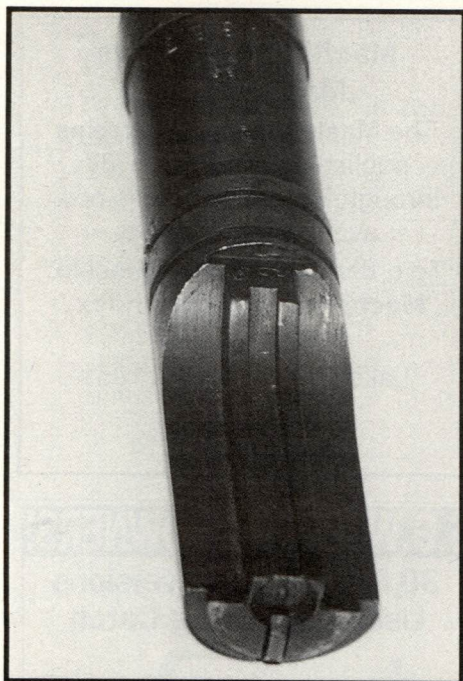
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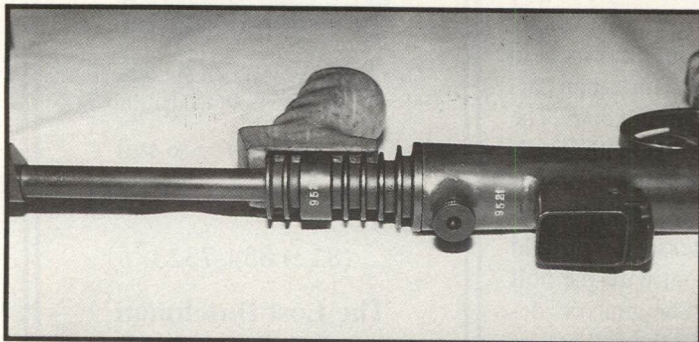


Detail of the Owen bolt. The ejector rides in the milled slot above the integral firing pin.

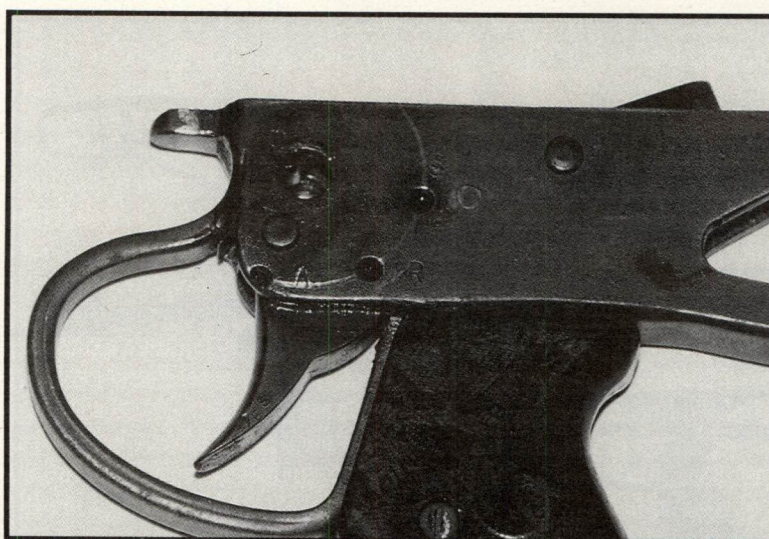
comes out the easiest is the trigger return spring, which is a flat steel spring, the others are coil springs. If this spring is missing or improperly installed, the gun will fire full auto only.

All Owen guns originally had a blued finish, and all I have seen showed traces of green camouflage paint on the metal parts, applied over the bluing. A black and white picture from the factory shows a World War II era gun as having contrasting light and dark camouflage paint on it. After the war the guns still held by Australia were Factory Thorough Repaired (F.T.R.) at S.A.F. Lithgow. They had their paint removed and were phosphated. They also had a sliding safety piece fitted that blocked the cocking handle from moving, by sliding either in front of, or behind the cocking handle, blocking the handle's movement in its slot.

Nearly all Owen guns were fitted with



An Owen gun with a finned barrel. This gun, made in 1942, is in the J. Curtis Earl Automatic Weapons Collection at the Champlin Fighter Museum in Mesa, AZ. Also note the wood grip.



Detail of an Owen trigger frame, with the selector removed to show "S", "R", and "A" markings. Not all trigger frames are so marked.

Bakelite type plastic grips; although, the gun in the J. Curtis Earl Automatic Weapons Collection at the Champlin Fighter Museum in Mesa, AZ, has wood grips. Lysaght's made a number of presentation guns, this may be one of them.

There were several buttstocks made—all work on any Mk 1 gun. There are skeletonized steel ones with and without an SM-LE oiler clip, as well as wood ones, both with lightening cuts and without, and with butt-traps and without.

Some guns were fitted with bayonet mount brackets on the barrel. The Owen had a bayonet designed expressly for it; some Austen guns were also fitted to accept it. The overall construction of the Owen is extremely durable and rather heavy, around 9 lbs unloaded.

The receiver is tapered on the inside at the front to accept the interchangeable barrels, as well as having a shoulder at the rear to hold the 1/2 inch ring separating the open cocking handle slot from the rest of the receiver. Both this shoulder and the tapered barrel fitting meant the gun required more machine work than a straight tube design. The barrel removal feature was meant for cleaning, not exchanging barrels during use.

STRIPPING

The Owen was designed with ease of stripping and as few small, easily lost parts as possible. No tools are needed for basic

stripping. The barrel comes off the receiver by lifting up on the barrel catch, located in front of the mag well, and pulling the barrel off the front of the receiver. The bolt and recoil spring then come out of the front of the receiver by pulling straight out on the brass catch

on the operating handle until it can be turned 90 degrees, and rested on the shelf in front of it. The barrel catch will have to be lifted for the bolt to clear. Further disassembly was not recommended for ordinary cleaning, but is easily done.

The end cap may be removed by prying it off, and the operating handle be removed from the butt end of the receiver. The trigger frame is removed from the receiver by unscrewing the large flat head screw on the underside of the trigger frame. The trigger assembly may be disassembled by sliding the retaining plate on the shooter's right side of the assembly up and off the pins. The selector can then be pushed out of the frame toward the shooter's left. The pins retaining the sear and trigger can then also be pushed out to the left, and the sear and spring can be lifted out of the top opening of the trigger frame. The trigger is still held in the frame by the trigger spring; the other end is retained by a screw in the side of the grip. This may be removed by removing the screw and lifting out. This is not necessary except to repair a broken spring and can be difficult to reassemble. The extractor and spring are retained by a pin through the bolt. The recoil spring guide shaft is held into the bolt by a pin retained by a spring steel ring around the center of the bolt.

SHOOTING

My Owen gun is a joy to shoot. In over 800 rounds so far, there have been no malfunctions of any kind, even when using grungy Egyptian surplus. The gun performs as it should when set on semi auto, only firing one shot, instead of two or three, as some open bolt guns do. With the selector

set for full auto, the operator can easily squeeze the trigger part way and fire single shots or depress the trigger for bursts. The hole in the rear sight is too large for accurate aiming; the gun was apparently meant to be fired from the hip. However, despite a rather pitted barrel, and crude sights, it is accurate, allowing the shooter to hold all 33 shots on a man-sized silhouette at 25 yards. Muzzle rise is minimal, and emptying a whole magazine in one burst is controllable, due in part to the weight of the gun, as well as its dual grip design. The downward ejection makes for easy collection of spent brass. The one irritating aspect of shooting the Owen is that the bolt does not lock back on an empty magazine; there is no bolt lock.

The gun also functions without problem when held sideways or upside down. The ejection was not very vigorous upside down, but the tooth on the mag, in combination with the next round in the mag (or the magazine follower on the last round), kicked each empty out and to the right and left, alternately. This test was more for fun than demonstrating any tactical feature, but it was interesting to see that the cases did not fall back into the action.

The magazine is very easy to load, no tool is needed, in contrast to the single feed design of the Sten magazine also used on the Austen.

The Owen is an excellent submachine gun. Its weight and length may make it obsolete now, but considering controllability, durability, and function it is the equal of any submachine gun. The Owen does everything you could ask of one and keeps on doing it. Certainly no better submachine gun was fielded during World War II. Although the gun seems to be rather rare in the U.S., an Owen is also an ideal civilian sport submachine gun; as it fires many

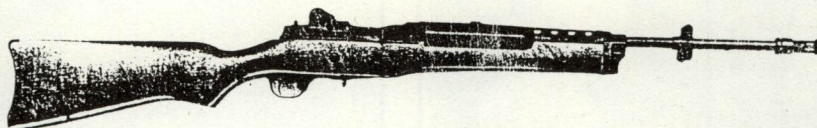


Markings on the trigger frame of the Owen gun at the Champlin Fighter Museum. It reads, "OWEN 9MM MK1.42 LYSAGHT PK. AUSTRALIA PAT. PENDING." The bottom line is the serial number. PK stands for Port Kembla. The Owen gun's tube body, considered the receiver by the B.A.T.F., is unmarked except for the serial number.

rounds in a session without jams or excessive heating, is easy to maintain, and is very durable.

Thanks to Chris Lares at the Champlin Fighter Museum, Mesa, AZ, for permitting me to examine and photograph the Owen gun in their collection. MGN

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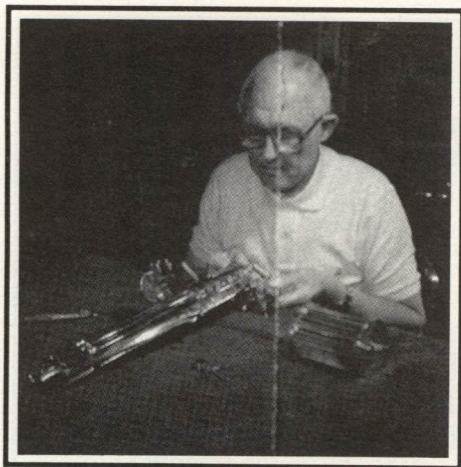
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Furr Arms Gatling Gun

by CAPT. MONTY MENDENHALL

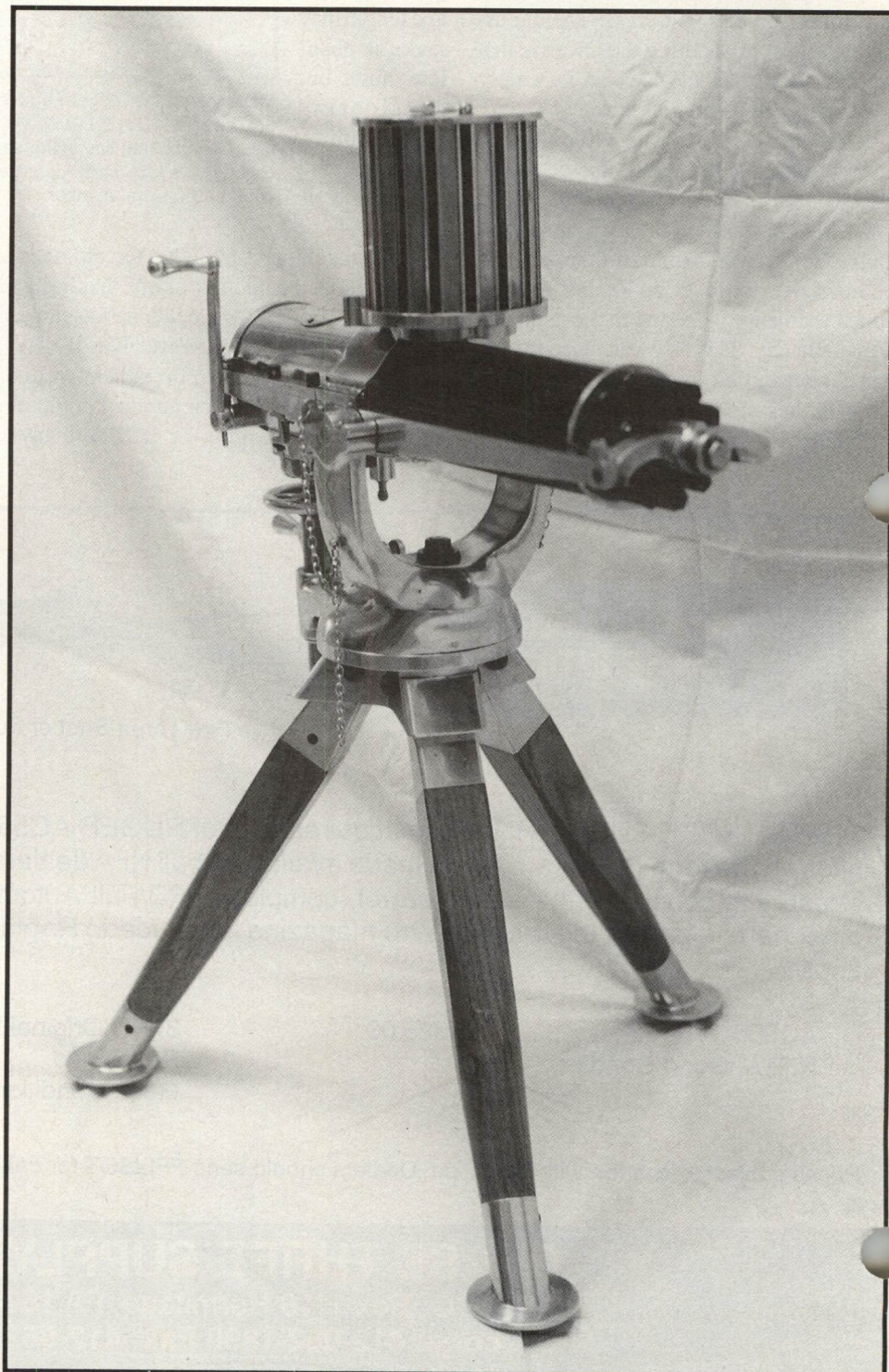
In 1968, the author admired a 1/3 scale brass and blue steel replica of a Gatling Gun. The gun was manufactured by the Furr Arms Company of Orem, Utah. It was chambered in the affordable to shoot .22LR caliber. Unable to own a machine gun at that time, the 1/3 Gatling was an interesting possibility. Though rapid fire, since its operation was entirely hand powered, it was not classified as a machine gun.

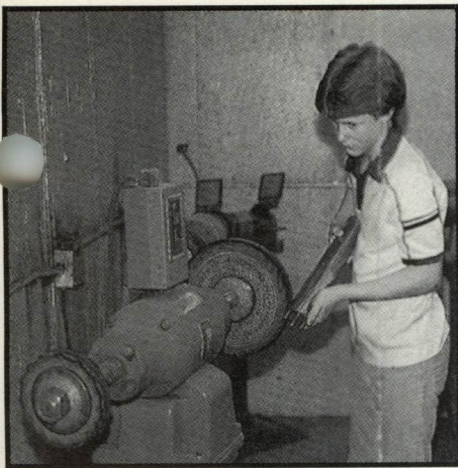
After discovering that the price was an impossible \$1400, the author abandoned hope of owning one. Situations change however, and twenty-five years later, the author found himself with a Furr Arms 1874 Gatling Gun.



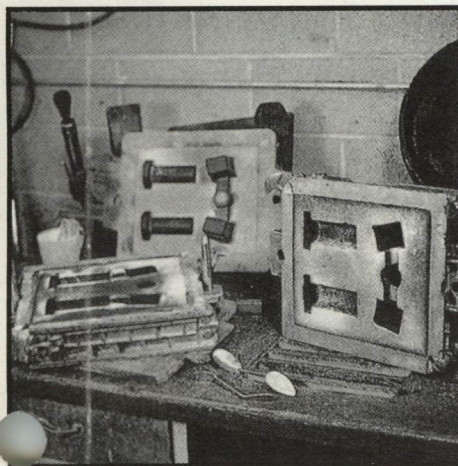
Paul Kuhni, specifically responsible for the development of the 1/3-scale 1883, and 1/3-scale 1874, has been with Furr Arms from the beginning.

Every Furr Arms Gatling Gun reproduction is handmade. No shortcuts are taken. Even the original Gatling name plate is copied. The Gatling's rotary breech block requires much precise machine work to manufacture. The 1874 Model has ten barrels and ten reciprocating bolts. (The Vickers rotary hydraulic pump was inspired by the Gatling's rotary breech.) Most individual parts of the Furr Arms Gatlings are





To prepare for diamond burnishing, parts are polished on a buffer wheel.



1900° molten brass is poured into sand molds which are formed from wood patterns.

stamped with the guns' serial number. The barrels and bolts are hand fitted. They are numbered in pairs to assure correct re-assembly.

The Broadwell drum magazine holds 240 rounds in sixteen columns of fifteen rounds each. The individual columns function as separate magazines. As the crank is rotated, the rounds are gravity fed into the

breeches as they pass under the feeding slot in the receiver.

When the first column of ammunition is aligned with the feeding slot, five rounds drop into the breech. The gunner cranks the Gatling to begin firing. When the first column empties, the gunner's assistant manually rotates the Broadwell drum 1/16 turn. If the assistant is quick, the firing will not be interrupted. Five rounds still remain in the breech after the

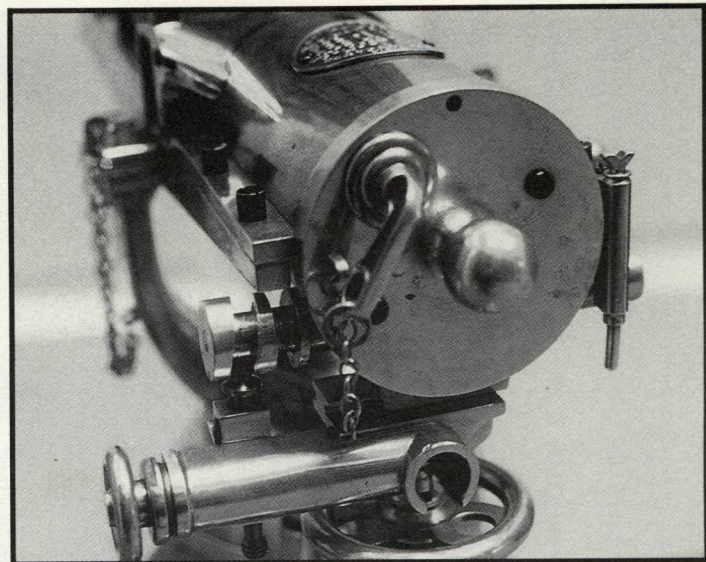
last round drops from the column. With a good assistant, a 240 round burst is possible.

Like modern tripod mounted machine guns, the Gatling has a traverse and elevation (T&E) mechanism. It can lay down indirect fire.

The T&E mechanism incorporates an oscillator. When the oscillator is engaged, the Gatling sweeps left and right to cover a ten degree field of fire.

Currently, there is about a one year wait between the time that Furr Arms accepts a Gatling order and the delivery of a finished gun. Future production of Gatlings may be hindered. The 1994 Crime Law prohibits manufacturing feeding devices of more than ten rounds. A Gatling with only ten rounds loses a lot of its historical significance.

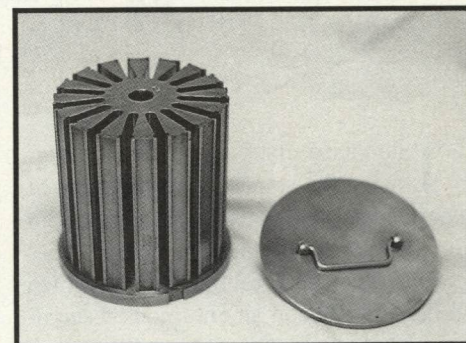
Though interesting and reliable, the Furr Arms Gatling has little practical val-



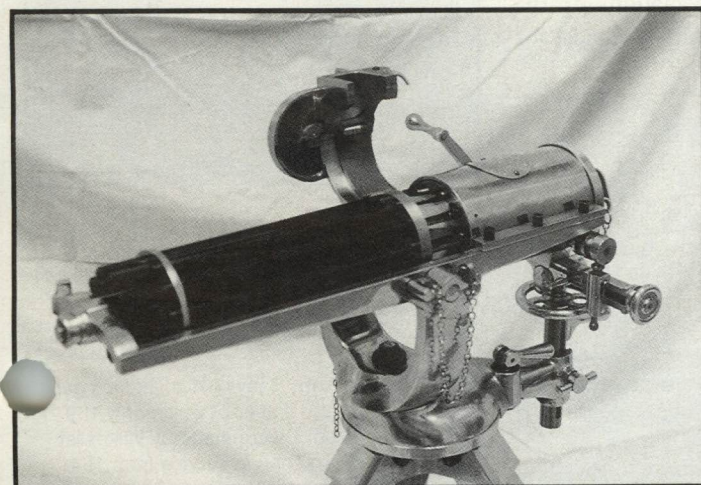
T&E mechanism. The pin is in the "oscillator" slot. If the pin is put in the vertical slot on the right, the gun will not move as it fires.

ue. It is just a curio that looks great sitting on the coffee table.

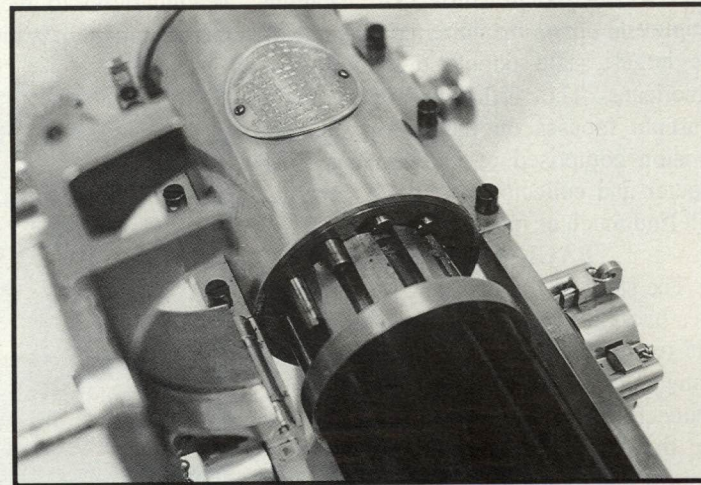
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Revolving Broadwell drum with cover removed.



Broadwell drum is removed and the breech is open.



Breech cover is open. The individual bolts are visible.

The 45th Infantry Division Museum



Tracing Oklahoma's Military Past

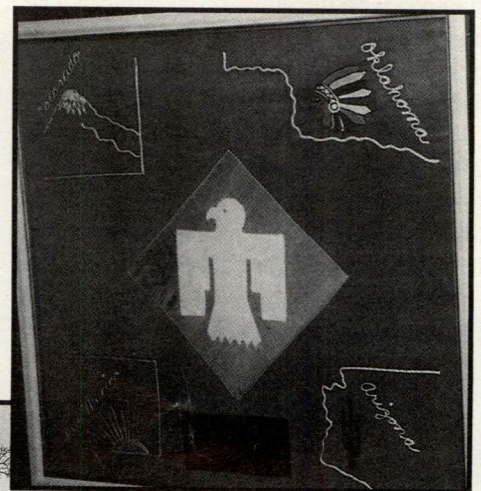
Story and photos by ROBERT M. HAUSMAN

The sharp crack of a handgun signaled the start of the first wave of homesteaders in the year 1889 when about 2,000,000 acres were designated for settlement in this south-central region which had heretofore been an enormous reservation known as "Indian Territory." Oklahoma, which received its name from two Choctaw Indian words: *okla*, meaning people and *homa*, meaning red, has one of the largest state populations of Native Americans. The 45th Infantry Division Museum focuses on the history of this division comprised of Oklahomans. The shooter and collector of Title II firearms will find much of interest here.

BACKGROUND

The story of the museum's beginnings goes back to 1963 when the state legislature (which at the time was composed of many former members of the famous Thunderbirds who served in World War II and the Korean War) enacted a law prescribing that there be a museum devoted to

the state's military past. Necessary funds for the implementation of this law were not found until 1974 when due to prodding by the 45th Infantry Division Association (a veterans group), the state's Adjunct General turned over the buildings and surrounding grounds (which had formerly been used by the 45th Division as its headquarters) to the association for the establishment of a museum. A request for



Above: The division's Thunderbird insignia.

Left: A view of the 15-acre Thunderbird Military Park.



Top: Heavy M1 eight-inch gun and limber of which only 139 units were made by Watervliet Arsenal. In service from 1941 through 1945.

assistance was made by the association to the U.S. Army Chief of Military History (CMH) in acquiring artifacts. The CMH aided the effort by arranging for the acquisition of tanks, artillery and heavy machine guns from the Red River Army Depot and also lent the museum the services of two professional curators.

Opened to the public in September 1976, the facility has expanded several times to its current 22,000 square feet of indoor exhibit space plus a 15-acre outdoor area known as the Thunderbird Military Park on which about 64 vehicles, aircraft, trucks, artillery pieces and the like are on static display. WWII veterans will be particularly interested in seeing the over 200 original Bill Mauldin "Willie and Joe" cartoons (which portrayed the day to day life experiences of two typical GI's in that conflict) that are displayed in their own gallery. Arms shooters and collectors will enjoy their very extensive Jordan B. Reaves military firearms collection which contains representative samples from the War of Independence through the Vietnam War. The collection also contains many personal items of Adolph Hitler which were brought back by division veterans.

DIVISIONAL HISTORY

The 45th Infantry Division was formed in 1923, and originally comprised the National Guard units of four states—Colorado, Oklahoma, New Mexico and Arizona. The sleeve insignia during these early years consisted of a four-sided red diamond with a yellow swastika in the center. The concept was that each of the dia-

mond's four sides stood for one of the states which comprised the division. The red and yellow colors were indicative of the Spanish influence over the area (the first white men to enter the region were members of the expedition led by the Spanish Conquistador Francisco Coronado who came in search of cities of gold) and the "crooked cross" represented the large Native American population in the area, to whom it was thought to be a sign of good luck. In 1923, people made no connection between this emblem and fascism.

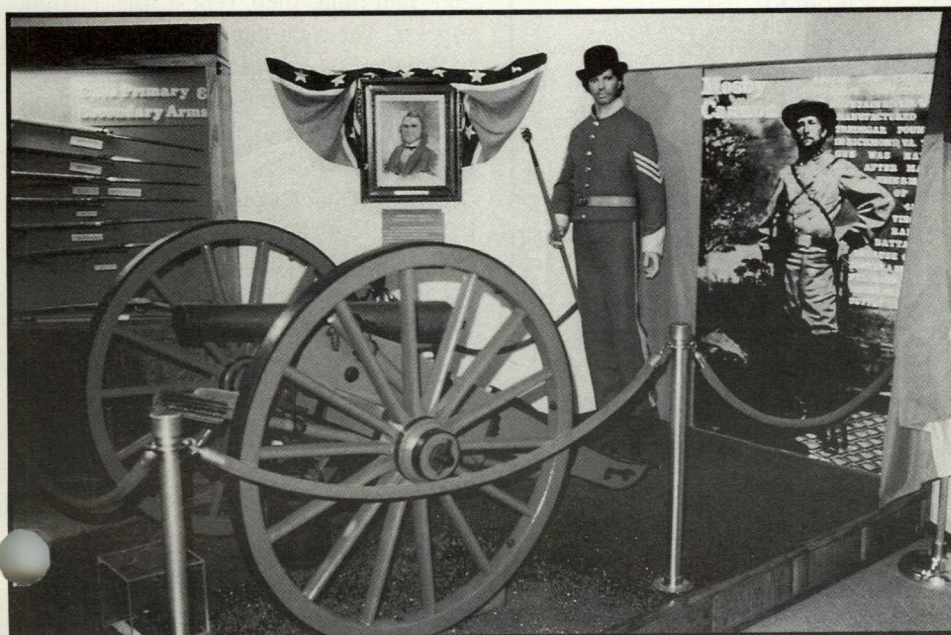
However, after Hitler came to power in Nazi Germany in 1933, National Guardsmen began to be acosted, as they were going to and from drill, by their own citizens who had come to recognize the symbol as a representation of fascism and national socialism. This led the National Guard to wisely change the swastika to a yellow thunderbird inside the red diamond to continue the representation of the Native American population. An insignia, to which, the Germans in WWII (having no knowledge of Indian folklore) referred to as the "falcon."

SELECTED EXHIBITS

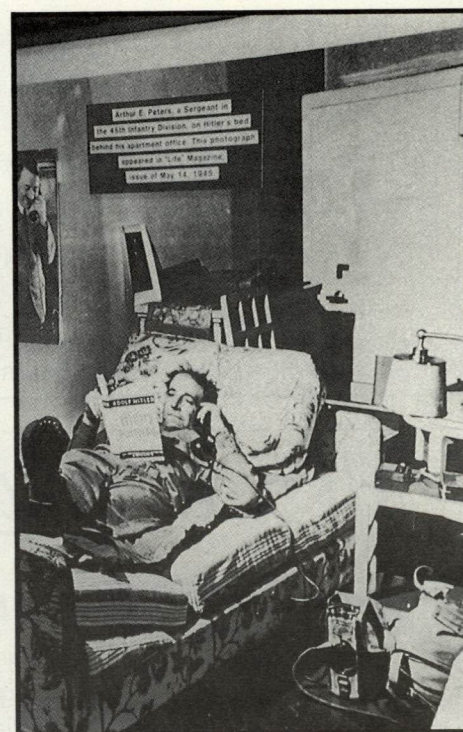
The "crowning jewel" of the collection (as museum Curator Michael Gonzales refers to it) is a Whitworth sniper's rifle from the Civil War. The Confederacy purchased 150 of them from the British at a cost of \$500 a piece in gold, paid in advance. This is the modern equivalent of paying about \$50,000 for a single rifle. The weapon was state of the art in the 19th Century, as there was just not a more accu-

rate rifle being built. For example, the Springfield rifled musket had a maximum effective range of about 300 yards, the British Enfield rifled musket had a maximum effective range of about 500 yards, while the Whitworth had a maximum effective range of 1,500 yards. The Federal government recorded the destruction of all but three of these rifles at the end of the war. Two were kept by federal officers as souvenirs; and their rifles were later given to the West Point and Battle Abbey museums. The third rifle was unaccounted for until 1988 when the descendants of a Confederate veteran donated it to the 45th Infantry Division Museum. He had used it once in a while for hunting and it stayed in his family up until the time it was donated.

Another specimen with an interesting story attached is the Mosby cannon. Major John S. Mosby of the 43rd Virginia Ranger Battalion was assigned to operate as a disruptive force behind the Union lines in Northern Virginia. Although he rarely used over fifty men in a single raid, he operated so successfully that an entire division of Union Cavalry under Major General Julius Stahel was detached from combat duty to pursue him. In May, 1863, a small field cannon and limber were smuggled through the Union lines to Major Mosby with



The Mosby cannon. See text for further details.



On display is this photo which appeared in the May 14, 1945, issue of *Life Magazine* picturing Arthur A Peters, a Sergeant in the 45th Infantry Division, on Hitler's bed which was behind the Fuhrer's apartment office.

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orders to wreck a Union supply train on the Orange & Alexandria Railroad. Early on the morning of May 30, 1863, Mosby led a band of about forty men and the gun to a point on the railroad near Catlett's Station, Virginia, where he ambushed and wrecked a supply train of eleven cars. Three regiments of Union Cavalry pursued Mosby's band in a running fight for eight miles until he turned off the road and emplaced his cannon in a farm yard. The only entry to his position was by a narrow lane with a rail fence on each side. Though the Union forces made several attempts at assaulting Mosby's position, each charge was repulsed until the Southerners ran out of ammunition for the cannon. The Federal troops were then able to capture the gun, which they brought back to New York City. It later was sold to collectors in Boston and Washington, D.C., before being acquired in 1960 by Jordan B. Reaves, who subsequently donated it to the 45th Infantry Division Museum.

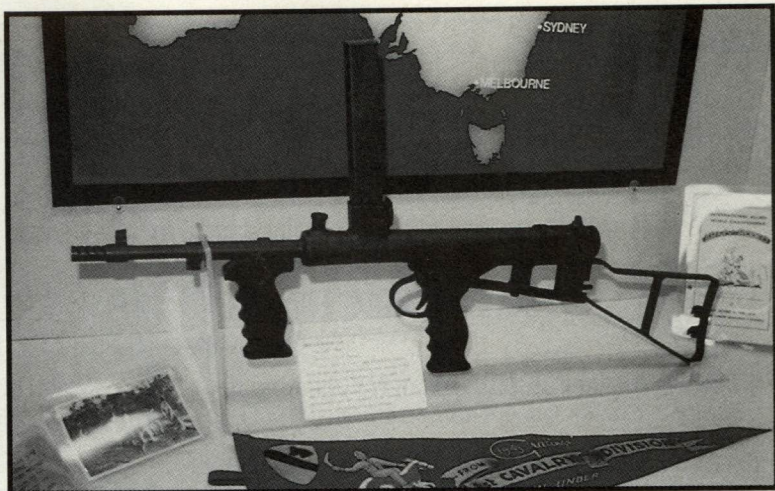
The evolution of multi-cartridge capacity firearms is well covered. Originally undertaken to give the Civil War era soldier an increased rate of fire over the predominant single shot arms of the day, Gonzales states that the average Civil War soldier could fire his single shot musket the rate of three rounds per minute. Development continued after the Civil War to aid troops fighting in the frontier against the Indians. An interesting arm is a 1863 Lindsay "double rifled" musket which has two hammers and one barrel. The idea was that the soldier would pour down powder and ball and then repeat the loading process. The right hammer was supposed to fire the first charge and the left hammer was intended to fire the second charge, but invariably, both balls went down range at the same time.

Another attempt in the same vein was the Colt 1855 revolving cylinder percussion musket which had a problem of losing gas pressure at the interface between barrel and cylinder. Loss of that pressure was manifested in flame. So, by the third or fourth round, a right handed shooter would find his left sleeve on fire.

Speed conscious arms designers also tried nitrate wrapped cartridges. The museum visitor may view a 1859 Sharps breech loading percussion rifle. After capping a loading the cartridge, the act of closing the breechblock would cut the back of the cartridge off to expose the powder to the vent from the cone. Invariably, unburned pow-



A display of American automatic weapons from WWII.




Owen submachine gun as used by Australian forces in WWII.

der would build up around the breechblock and this unburned powder would eventually go off in a secondary explosion—which had a tendency to burn the then very popular facial hair off the soldier.

Probably the best rapid fire weapon to come out of the American Civil War was the Spencer repeating rifle. Magazine fed through the buttstock, it held seven rounds. It was referred to as a 7-day gun, load it on Monday and fire it until Sunday. The

mechanism worked somewhat similar to the Winchester rifle, in that when the trigger guard was pulled down, it would extract the used cartridge and bring a new one up in to the firing chamber. Gonzales points out that on the first day of the Battle of Gettysburg, Colonel Buford's brigade of cavalry was issued the Spencer, and the rifle is credited with giving them the edge against two divisions of Confederate Infantry.

Machine gun fans will find plenty here to maintain their interest. Beginning with a case entitled "The Dawn of Mass Death, Modern Artillery Machine Guns in the First World War," exhibits trace the tremendous advances made in the development of rapid firing arms which caught most of the European armies off guard in 1914, and accounted for the huge losses during the first few months of combat. The many automatic weapons on display



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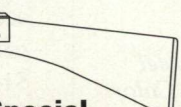
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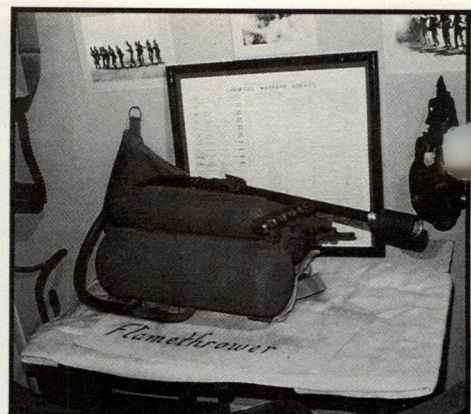


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Several flamethrowers may be seen on exhibit.

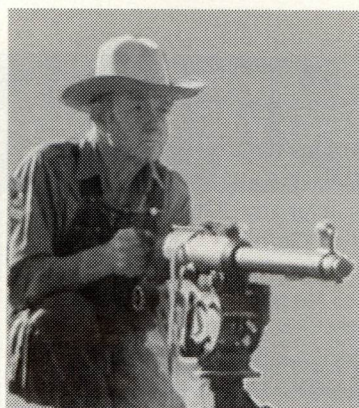
include an unfired 1917 water cooled .30 caliber serial number 23. The first 23 of which to be manufactured in American arsenals were set aside for historic preservation. Other examples include an MG-08/15, a 7.92mm German Spandau, a Model 1914 8mm Hotchkiss and a Mark I .303 caliber Lewis gun complete with canvas case and drum magazine. A Soviet RPG-7 anti-tank grenade launcher which was captured during the Vietnam War can be seen. As can a .22 caliber pistol handmade by the Vietcong to look like a revolver. Basically just a zip gun with a piece of pipe serving as the barrel, its former owner apparently wanted to be seen as a person with some class, so he handcarved and painted the sides to resemble a revolver's cylinder.

GETTING THERE

If traveling from the Dallas/Fort Worth area, take I-35 North to the Northeast 36th Street exit. Proceed about mile and the museum will be on the right.

The address is 2145 N.E. 36th Street, Oklahoma City, OK 73111. Telephone (405) 424-5313. The hours of operation are from 9 a.m. to 4:15 p.m. with the military park closing at 5 p.m. from Tuesday through Friday. Saturday hours are 10 a.m. to 5 p.m. and Sunday hours 1 to 5 p.m. The museum is closed on Mondays, Christmas and New Year's Day. It is open on all patriotic holidays. There is no admission charge, although donations are gladly accepted. The military park is equipped with picnic tables and barbecue grills.

The 45th Infantry Division Association accepts membership applications from the general public. Rates are \$5 for one year, \$15 for four years, \$35 for ten years and \$75 for life membership. Write the association at the museum's address. MGN



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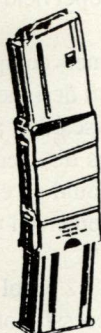
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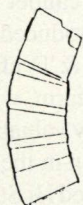


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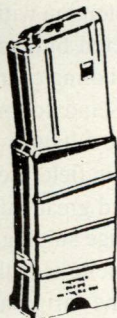
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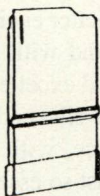
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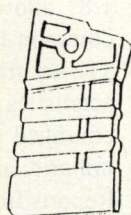
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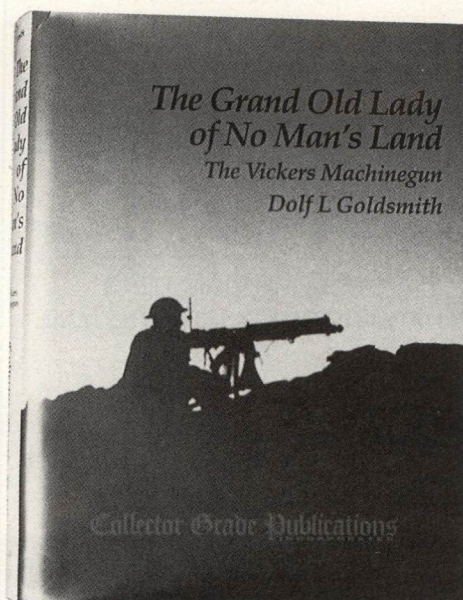
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MGN Book and Video Reviews



THE GRAND OLD LADY OF NO MAN'S LAND *The Vickers Machine gun*, by Dolf L. Goldsmith, 592 pages, 686 photos and illustrations. \$79.95. Available directly from the author at 10223 McAllister Freeway, Suite 104, Dept MGN, San Antonio, TX 78216. Phone (210) 342-4723 Reviewed by Chris A. Choat.

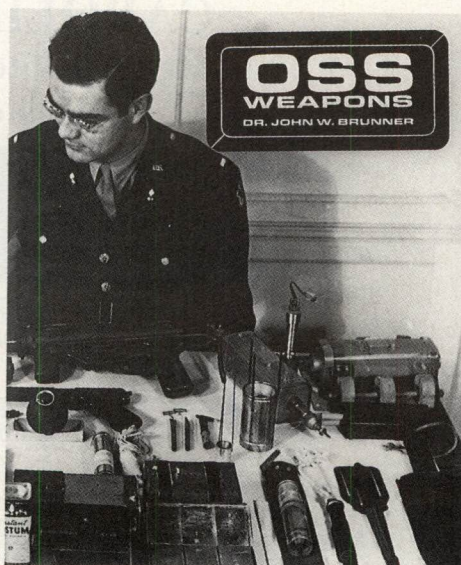
Dolf Goldsmith has done it again. He now has an in-depth sequel to his best selling *THE DEVIL'S PAINTBRUSH-Sir Hiram Maxim's Gun*. The latest book is titled *THE GRAND OLD LADY OF NO MAN'S LAND-The Vickers Machinegun*. Over 20 years of research has gone into this book making it THE most comprehensive book on the Vickers machine gun ever done. This collector grade book is done in a large format (8.5 X 11) hard cover style with high grade glossy paper used throughout. The book has 686 archival photos and illustrations contained in its 592 pages. It covers the 170,000 Vickers guns made in all variations. These include the guns made by Vickers of England, Lithgow in Australia, Colt in the United States as well as the arsenals in Czechoslovakia, France, Japan and Portugal. The book tracks the history and development of the Vickers, its military use, as well as, all accessories. One whole chapter entitled, "The Troubleshooters Handbook," can help the reader

make his favorite Vickers run like a sewing machine. Of special interest, to this author, was the chapter on the use of the Vickers in aircraft. This chapter contains a host of very interesting photos of World War I aircraft that used the Vickers aircraft guns. If you own a Vickers or even have a mild interest in this fascinating old "war horse," this book is a "must have" addition to your book collection. This book is extremely well written, but then what would you expect! It's done by the machine gun master—Dolf Goldsmith.

OSS WEAPONS, by Dr. John Brunner, 206 pages, 130 illustrations, 1994. \$47.00, including postage. From Phillips Publications, Box 168, Dept MGN, Williamstown, NJ 08094, Phone (609)567-0695. Reviewed by Mark White.

For those who came in late, OSS is the Office of Strategic Services. Predecessor to today's CIA, the OSS was an intelligence unit put together during the trying times around WWII. As a young man, John Brunner was there serving his country as an OSS field agent in China. Now, fifty years later, and after thorough and exhaustive research, Dr. Brunner has written an authoritative and fascinating book describing the weapons and tools used by the OSS.

Upon publication, this book was immediately banned in Britain, and I can easily see why. Even though the tools, materials,



and equipment of sabotage and war described are over a half century old, they remain very effective today.

Items of Interest To Me

The famed Liberator, a .45 caliber, smooth-bore, single shot pistol. Cheaply produced in quantity of a million, the Liberator was designed to be dropped behind enemy lines to resistance fighters. The lightweight pistol was inaccurate and painful to fire. Used at extreme close range, its tumbling bullet would have been extremely destructive, but the loud noise and unpleasant handling characteristics made it a turkey that nobody wanted. It was a prime example of a viable concept, executed in excessive number, without proper field testing and evaluation.

The Stinger was an extremely compact, one shot, .22 caliber pen gun designed to be cheaply produced and discarded after use. Much R & D effort was directed towards this firearm, which should give one an idea of how valuable its perceived need may have been in the field.

The silenced Hi Standard .22 pistol was probably one of the most successful of the OSS weapons; at the time it was the most silent firearm available. Early models apparently had 68 - 3/16" holes drilled in their barrels, which dropped energy to an unacceptable level. Experiments were conducted with projectiles of gold and of tungsten, which have roughly twice the mass of lead. Later experiments reduced the number of holes to 48 and their diameter to 1/8", allowing better energy retention with common lead and with jacketed bullets. The accuracy and excellent handling characteristics of the silenced Hi Standard encouraged practice, with the resultant familiarity and trust so essential in field use. Reports from the field indicated great value for this weapon in close range sniping.

The recount of the OSS Stiletto is both interesting and amusing. The original Sykes-Fairbairn British fighting knife was thought to be both too thick and too soft. Accordingly, the knife was redesigned with a thinner tip and harder steel. In use, the tips often broke off. The scabbard was poorly designed, preventing retention during parachute landings. The keen tips and edges often injured those whom the knife was issued to protect.

A very short sword, called the Smatchet, was highly polished. This shiny surface was advocated by Lt. Col. Fairbairn to "intimidate and strike fear" into one's adversaries, an interesting concept in today's world of stealth.

Firearms and quiet crossbows fill the first 65 pages of text. The remainder are taken up with various mines, booby traps, incendiaries, time delay devices, cameras, and communication equipment, all which are both clever and interesting.

One of the things which struck me throughout the book is the grim humor of those who designed and named these weapons. A hand impact grenade was christened Beano doubtless from the term used by baseball players of the Thirties. A dart is code named Bigot. An oil slick igniter is called City Slicker. Underwater demolition devices are called Limpets and Clams. An explosive device for a gas tank is called Firefly. A destructive engine lube oil additive is called Caccolube. Packed in rubber prophylactics, Caccolube units were also called Turtle Eggs. A chemical odor designed to emulate human feces is called Who, Me? The ancient, 4-pointed Caltrop, once used against mounted horsemen, is resurrected and used against rubber tires. Called the Tire Spike, or Road Nail, it was soon renamed the Road Snail.

For the WWII buff, and for the serious scholar of weaponry, *OSS Weapons* is the most carefully documented and authoritative book on the subject. It contains previously classified information only recently released, and puts it into a logical, sequential, and very readable form. To my knowledge, it is the only book of its type on the market. It is well worth reading.

THE STONER MACHINE GUN: A NAVY SEAL REMEMBERS, produced by Dennis J. Cummings, written by Dennis J. Cummings and Ron Erb, special guest appearance and co-narration by LCDR Michael J. Walsh, USN (Ret.); 35 minutes, \$33.95 Paladin Press, PO Box 1307-5 MGN, Boulder, CO 80303. (800) 392-2400. Video Review by Rob Krott.

Dennis Cummings, producer of Navy SEALs: America's Secret Warriors and other SEAL oriented videos, has once again come through with a winner. This one on the Stoner 63 machine gun. Eugene Stoner

(designer of the M16, in case anyone forgot) and a Cadillac Gage engineering team developed the Stoner 63 weapons system. The weapon had six different configurations based on the Stoner receiver. The Stoner 63A light machine gun was the model most frequently used by the U.S. Navy SEALs. Although the U.S. Army and the USMC tested and evaluated the Stoner as a possible replacement for the M60, only the SEALs used the Stoner in significant numbers in Vietnam. It was the primary machine gun of the SEAL teams in Vietnam, and the Cadillac Gage engineers received technical reports and requests directly from the field. The opening clips of this video show the various Stoner variants being fired on a range while the weapon's technical aspects are described. The video also shows the Stoner being tripod mounted in its medium machine gun role.

The focus of the video is provided by LCDR Michael Walsh as he reminisces about the Stoner and its role with the SEAL teams in Vietnam. Walsh served five tours in Vietnam, three of them in assignment where he was intimate with the Stoner. In fact, the front cover of Walsh's memoir, SEAL!, depicts a young Mike Walsh geared up for a mission and holding a Stoner. According to LCDR Walsh, "This added to our firepower like no other weapon could have...The Stoner was like nothing else around. It was different."

LCDR Walsh's participation in this video lends real credence to its historical and technical accuracy and really "makes" the video. He provides an informal technical brief on the weapon detailing its high-points and its foibles including the problems with its feed pawl mechanism and the infamous "dead man's pin." The "dead man's pin" was a receiver pin which, if vibrated loose, caused the weapon to fire. It caused the death of one SEAL by his own weapon before being corrected. Walsh discusses various field expedient modifications made to the weapon in Vietnam. He explains how the SEALs carried additional ammo; the adaptation of the box and drum magazines; and the expedient use of captured RPD drum magazines. Walsh gets off the subject a little, but only to make some interesting comments about the SEALs participation in the Phoenix Program and to provide some interesting operational observations such as, "Most SEAL operations in Vietcong didn't go past one evolution of darkness...you didn't eat 'til you got home."

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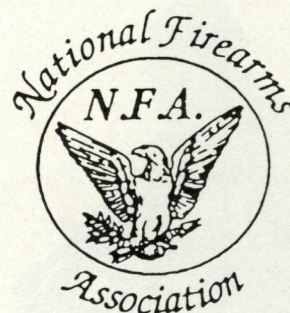
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Producer Cummings wisely decided to leave these interesting tidbits in the video.

War stories from LCDR Walsh's personal experience make the video especially interesting. His on and off camera narration is accompanied by combat film footage on patrol. Vietnam film footage includes a mission brief. One thing you'll notice is the long hair, mustaches, and beards especially the more "beatnik" styles. Some of these guys look like a cross between the Hell's Angels, the Grateful Dead, and the "Green Berets." Nobody I'd want to mess with. Other interesting spots on the video is the frequent wearing of Levi's; what looks to be a SEAL on patrol barefoot; VC rice paddy farmer hats; and most impressive: an M60 gunner carrying a gun equipped with an aircraft feed mechanism and humping the door-gunner ammo pack on his back.

A professional narrator picks up the narration from time to time during the film clips, many of which apply directly to Walsh's narration. Two of the clips are of Walsh's platoon on actual combat operations. It's a good summation and discussion of the Stoner's use by the SEALs in Vietnam; however, I would have liked to have seen a disassembly-assembly of the gun and more technical data, including nomenclature on the weapon. But then again, this wasn't meant to be a how-to video and a field stripping sequence might bore other people. Weapons aficionados, fans of the Stoner, SEAL buffs, and SEAL veterans will want a copy of this video tape.

GUNOWNERS AND THE LAW, 90 minutes, and **TEXAS GUNOWNERS AND THE LAW**, 97 minutes, both produced by Rodger M. Zimmerman. Either tape may be ordered for \$29.95 plus \$3.50 shipping from Cinetex, Inc., Dept. MGN, P.O. Box 549, Austin, TX 78767. Videos reviewed by Robert M. Hausman.

A solid, basic, explanation of applicable Federal laws relating to definitions, ownership and possession of firearms of all types is imparted herein. Presented by Rodger M. Zimmerman, a veteran criminal defense lawyer and a Class 3 dealer in the state of Texas. The 90-minute tape yields the viewer a thorough grounding in the legal definitions of various firearms including what, under federal law, constitutes a

handgun, a rifle, a shotgun and definitions of Title II weapons.

Functions of the different firearm action types are explained and demonstrated. The special regulations pertaining to fully automatic and short barreled arms are discussed and the penalties for unlawful possession are spelled out. During one eye-opening segment, Zimmerman demonstrates how Federal agents measure shotgun barrel length—it is done by dropping an 18-inch dowel rod down the barrel on a closed chamber, not by measuring the barrel length from the outside.

In addition to the technical information on guns, information is provided on the legalities in the use of deadly force in defense of person and property. Guidelines on what to do if one is ever the focus of a warrantless police search (never voluntarily give permission to the search) is presented as well as what to do in the aftermath if one ever uses legal deadly force against another (he advises making the first telephone call to a criminal defense lawyer, not to the police). He points out that police serve as the "third arm" of the prosecution and are often more interested in furthering the interests of the prosecutor, not the crime victim. He advises viewers to get to know a good criminal defense lawyer in advance of any future need.

A second video, *Texas Gunowners and the Law*, has also been produced by Zimmerman. This 97-minute tape focuses on the firearms and self-defense laws of the state of Texas. A considerable portion is devoted to explaining the state's laws in regard to the carrying of handguns, an area of great confusion even among longtime residents. A reading of the law which prohibits the carrying of a handgun on or about the person "knowingly, intentionally or recklessly," is provided along with case examples of what would or would not constitute a violation of the law are explained. (Editor's note: *Texas recently passed a concealed carry permit.*) The situations under which Texas law allows its citizens to defend themselves and or their property with deadly force are amply explained with case examples. The videos are of invaluable benefit to novice shooters to avoid getting into legal trouble with their newly acquired guns. Out of state shooters considering a trip to Texas with their firearms would be well-advised to view the tape focusing on that state's laws before doing so. While the subject matter of the tapes is serious, Zimmerman interjects bits of humor every now and then which helps to hold the viewer's interest.

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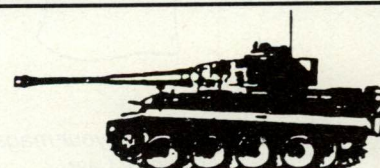
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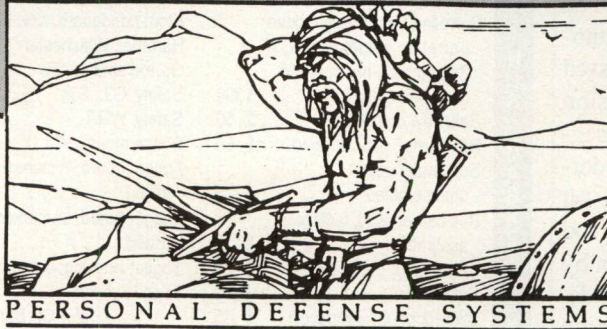
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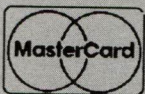
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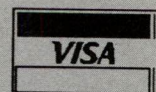
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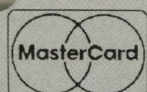
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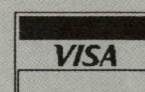
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FOCUS ON:

Basic Training: Gunsmithing Tools & Techniques Part 2: More Hand Tools

by CARL SILVER

Welcome back to *Focus On:*, as I mentioned last month, one of the results of the reader's survey was the requests for both beginners and advanced technical articles on machine gun design and repair. The objective of the **Basic Training** articles is to explain the basics of firearm maintenance and repair, highlighting some of the machine gun specific activities, such as headspace testing, safety-wiring, and checking timing. There are many tasks that require the skill, training and experience of a professional gunsmith and should not be attempted by a beginner. This article will cover more of the basic hand tools, some power tools and resources.

CHEAP TOOLS

Oh, the lure of cheap tools. It does not matter where you are shopping—the drug store, the super market, even in the hardware store—there they are. Hanging from a hook, calling to you from inside their sparkling plastic wrappers. Usually marked in the .99 cents to \$1.99 range, the price says it all: CHEAP.

Avoid them. Be afraid, *very* afraid. If you are lucky, they will break BEFORE you try to use them. If not, they will always break at the most inopportune time, either gouging a chasm in your finest firearm and/or creating a major *leak* from some part of your anatomy. Both outcomes are not pleasant. Be smart, shop around. Good tools are always a wise investment.

PLIERS

Pliers are used for holding small parts, bending and forming steel, and a small amount of cutting. There are several different types of pliers:

Diagonal cutting pliers are used to cut wire stock. Owing to the angle of the point, they can be used to grip and pry out cotter pins.

Needle nosed (or long nosed) pliers

are also used to remove and install cotter pins. Their thin nose allows them to be used in places where your fingers cannot reach. They are used primarily for working with wire, making fine adjustments or for delicate work. They have a cutting edge near the joint for cutting and stripping wires.

Locking pliers (Vise Grips®) are often used as a portable vise when gunsmithing. Two or three layers of duct tape (or a piece of leather) applied to the sharp jaws will prevent them from scratching the workpiece. Pay attention when releasing vise-grips, the tension can cause them to jump off the workpiece when they are unlocked. (Thanks, Chuckie!)

Hemostat clamps (popularly known as roach clips), are made in different sizes with straight or curved jaws. They have great gripping power for their size and are handy for filing, gluing and welding operations.

When you use pliers, make sure that the serrations are clean and sharp. The pliers cannot grip properly if they are worn smooth. Keep pliers free of grease and oil, or they may slip damaging the work and causing injury.

FILES

Files are used for cutting, smoothing, shaping or removing small amounts of metal. Files are classified by their cuts, lengths and cross sectional shapes. Filing is an art. It takes longer to learn how to use a file properly than any other hand tool.

File Teeth Characteristics: **Single-cut files** have a single set of diagonal rows of teeth. The teeth are parallel to each other throughout the file. **Double-cut files** have two sets of diagonal rows of teeth. The first set of teeth is called the **overcut**. On top of the overcut set, a second set is made crossing the first. The second set is called the **upcut** and is not as deep or as coarse

as the overcut. **Rasp-cut files** are made by a single pointed tool or punch which forms each short tooth separately. Teeth are formed consecutively, side by side, to form a row of teeth.

File Teeth Spacing: the number of teeth per inch or spacing varies with the length and manufacturer of the file. A file may have a **rough, coarse, bastard (medium coarse), second cut, smooth cut** and **dead smooth** grade teeth. For fast removal of metal for rough work, the rough, coarse and bastard files are used. For finishing, the second cut (small teeth), smooth cut (very small teeth), and dead smooth (very fine teeth) are used.

File Shapes (see Figure 1) (Note: I will only describe the ones most used for gunsmithing): **Hand files** are rectangular in cross section, of uniform width, and taper in thickness only. They are double-cut with one **safe** or **uncut** edge. **Pillar files** are similar to hand files, only narrower. They are double-cut with one safe edge. **Needle files** are small and delicate. They usually come in sets of 8 or 12. The handles are knurled or plastic coated for a better grip. **Screw head files** are used for repairing damaged screw slots. The wide, flat sides are smooth and they cut only on the edge. **Checkering files** are used to cut true, accurate checkering in metal. They are made in different spacings to cut from 20 to 75 lines per inch (lpi). Checkering is used to improve the grip on a firearm (small # of lpi) and to make a surface non-reflective (large # of lpi).

What is the purpose of a **safe** edge? A safe edge allows you to guide the file by placing the **safe** edge against the workpiece or a guide clamp. The safe edge will not remove metal from the guide.

A **file card** is a wooden paddle covered on one side with sharp steel bristles. It is used to remove filings from the grooves in a file by stroking the file parallel to the rows of teeth. This action unclogs the file, restoring their cutting capacity.

File handles make the file easier to manipulate and keep the pointed end from wearing a hole in your hand. Most are made of wood or plastic, but many old timers still use a piece of dried corn cob.

When filing, apply pressure on the **forward** stroke only. The file will become duller much sooner than it should unless the file is lifted from the work on the return stroke. The exception is when filing soft metals or plastic, when pressure on the return stroke helps keep the cuts in the file

clean of waste material.

MATERIAL TIPS:

When filing **cast iron**, start with a **bastard cut** file and finish with a **second cut**

When filing **soft metal**, start with a **second cut** file and finish with a **smooth cut** file. When filing **hard steel**, start with a **smooth cut** file and finish with a **dead smooth** file. When filing with **brass or bronze**, start with a **bastard cut** file and finish with a **second cut** file. When filing **aluminum or lead or babbitt** use a **bastard cut, curved tooth** file.

OILSTONES

Gunsmiths use hand stones for both polishing hardened surfaces (like sears) and removing small surface burs and defects. They are also used for sharpening knives and other edged tools. They come in many shapes and materials:

India (or Aluminum oxide) stones are preferred for their durability and close tolerances.

Crystolon (or Silicon carbide) stones remove metal more quickly, but do not leave as fine a surface finish.

Soft Arkansas sharpens edges to an even polished finish and is often used after polishing with India stones.

Hard Arkansas produces precise finishes with polished, razor-like edges.

All stones are porous and require an oiled surface for best results. Most stones

should be lubricated with a few drops of honing oil before each use.

Ceramic stones produce a smooth finish and the cut gets finer the more they are used. Their main advantage is that they are lubricated with water.

There are also **Diamond Hones** and "**Stones**" which are small pieces of diamond bonded to a steel plate or rod. They are made in fine, medium and coarse grades. They work well, but they can remove **too much metal** if you are not careful.

RUBBERIZED ABRASIVES

Another group of polishing tools are **Cratex ®** rubberized abrasives. These are made in the shapes of blocks, sticks, wheels, and points and in coarse, medium, fine and extra fine grits. The blocks and sticks are used like oilstones (but dry), while the wheels and points are chucked in a hand-held electric rotary tool.

The Cratex ® points provide a neat alternative to the old felt bobs and sloppy grinding/polishing compounds that were necessary to polish a feed ramp or remove a bur from the inside of a chamber. They are sold in small kits that provide a selection of shapes and grits. Remember your **dustmask & eye protection**. The tricks to using rubberized abrasives are to go **slowly** and do not apply too much pressure. *Stop often to examine your progress*. One can remove *much more* metal than intended if you are not careful.

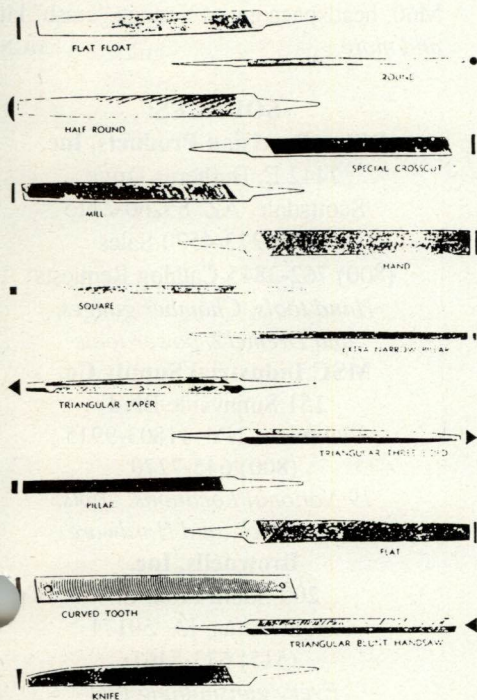
VACUUM CLEANERS

You are probably asking yourself, "Why is there a section on vacuum cleaners in this article?" Every time you use a file, drill or a grinder on metal, you make thousands of chips, shavings and filings. This creates two major problems:

First, all of these particles of metal are potential slivers (splinters), just *waiting* to be tracked and spread throughout your shop, and worse, all over your house. I do not think I need to expand on the *joy* that will be expressed by your spouse when he or she discovers one of these metallic babies with their bare feet!

The other reason for keeping your working area free of this scrap metal is that it will ruin the finish of your original Thompson, or any other item you put down on your work bench (this includes your hands and forearms)!

Figure 1: Different File Shapes



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NEXT MONTH...

Some of the subjects that will be discussed in the final May installment: measuring and layout tools, safety wiring the M60, headspace gauges, range "crash" kits and more.

MGN

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Machine Gun News - April 1995

MACHINE GUN MANUALS

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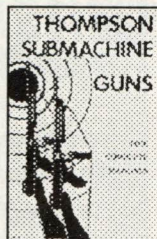
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26. TSMG Foregrips & a Beavertail Design
27. TSMG Trigger Parts-Pt. 1
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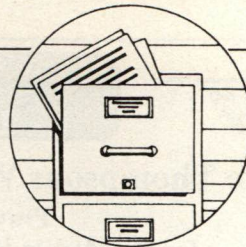
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The Forms

by DAN SHEA



Long time *MGN* readers know that each year around February/March, I get the yearly update on NFA firearms transactions from ATF and publish it in "The Forms." If you take a moment to study them, using the guide provided, you will be amazed at the information that is in them. If you take it one step further, compare the 1994 charts to the previous years in your back issues of *MGN* (Feb/Apr 91, April 92, May 93, and April 94) or your *Machine Gun Dealer's Bible*.

You will be glad to read that I have finally finished the updated 1995 version of the *Machine Gun Dealer's Bible*. There is a lot of new info in it, and I highly recommend it to anyone who wants to know about Class 3 items, but then, I would recommend it; I wrote it.

Q Can I legally cut off the barrel of an MAK 90 and then weld a flash hider to the

barrel so that it would be of legal length? (Like an AR-15 with a short barrel and long flash hider O.A.L. 16")

Ed

A Well, that short period when the barrel is cut to below 16" in length, you are in possession of a short barreled rifle, requiring registration with the NFA Branch, ATF. As ridiculous as this sounds, it is a fact. If the barrel is not on the receiver, you could do it; then, reinstall it. I would make sure it was done in one operation.

Q I am considering buying a DEWAT MP40. The only damage visible on the gun is a 1-inch weld on one side of the bolt inside the magazine well. Can this legendary weapon be legally reactivated and transferred to me? What problems might emerge?

John M.

A Have it transferred to you as a DEWAT. If it is not registered now, then it is contraband. Welding the bolt in an MP40 does not constitute destroying the gun. The receiver must be torch cut into three pieces with a torch that removes 3/8" of metal with each cut. As long as it is registered, get it in on a Form 5; then, file a Form 1 (\$200 tax-paid, fingerprints, photographs, and law enforcement signature) to reactivate it. You can also Form 5 (for repair) it to a Class 2 manufacturer to have him reactivate it on a Form 2, then transfer it back to you on a Form 5.

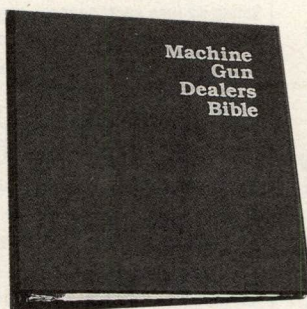
Q My wife and I recently established a trust of which we are both named as trustees. I would like to transfer my NFA firearms into the trust so that, should I die, my wife would have immediate possession of my guns without going through a Form 5 transfer. Would a transfer into the trust

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accomplish this? Is this a wise thing to do? Can I even do it? Any advice you have in this matter would be greatly appreciated.

Karl M.

You need a lawyer. Setting up a trust is going to be contingent on state laws; then, it will probably have to be incorporated. As a corporate entity, the ATF will transfer the firearms into it. One added attraction is that the corporation will not have to have fingerprints, photographs, or law enforcement signatures on the Form 4. Some people use this system as an investment tool for NFA firearms.

Q On most shotguns, the barrel is easily and quickly taken off the receiver. But there are some smaller gauges (.410 bolt guns, etc.) that require a gunsmith to take them off. On the legal length of short-barreled shotguns, is the measurement taken from the forward edge of the receiver to the end of the barrel, or is it taken from the total length of the barrel when it is off of the receiver? What about the short length of metal that hooks the barrel to the receiver, such as the Remington 870 and 110 type shotguns? Does that count in the total length?

Stephen A.

A The chamber end, measured even with primer end rim, to the tip of the muzzle end. That is my rule of thumb. If the chamber can be readily unscrewed, then the barrel without the chamber is measured. If there are any muzzle brakes or other devices that can be readily removed, they are not part of the length. The barrel extension that you mentioned is not included in the measurements either.

Q Thank you for the comments on my letter to you re: Art IV Sect. 1 & 2 of the Constitution. The Constitution is not a smorgasbord document. If federal identification, ie: military, etc. must be recognized by states, as well as, marriage and drivers licenses issued by states, then all FFL and state issued pistol/firearm permits must be given "full faith and credit," or our governmental custodians have failed to live up to the ideals of the Declaration of Independence.

I also have a "poser" for you! The Second Continental Congress, made up of elected delegates to represent the several states, first met in May 1775. Were all their legislative enactments lawful? If not, at what point did they become lawful, for this is the same elected body that made Washington Commander-in-Chief (June 1775)

BUREAU OF ALCOHOL, TOBACCO AND FIREARMS												
NFA REGISTRATION ACTIVITY - ANNUAL COMPARISON												
YEAR	F1	F2	F3	F4	F5	F6	F9	F10	LTR	4467	OTHER	TOTAL
1994	1270	100130	22498	7838	62258	0	35392	2857	2	0	1	232246
1993	300	108830	27638	7819	67739	0	28118	407	11	0	19	240881
1992	358	76161	26878	6568	46587	2	20366	290	40	0	21	177271
1991	225	78280	21018	5411	42243	1	36814	261	0	0	29	184282
1990	691	89287	22888	6830	56066	4	27504	289	44	0	130	203733
1989	271	69582	23755	8176	31138	12	18132	281	51	0	96	151494
1988	341	25164	39769	7707	8386	2	1473	403	66	1	448	83760
1987	412	17100	34536	8321	9441	2	745	320	144	1	708	71730
1986	938	70278	22970	5172	4905	0	527	381	181	3	737	106092
1985	645	14742	15534	3529	6281	1	1306	334	45	1	722	43140
1984	535	14848	14730	3915	5437	1	1506	294	3	3	336	41608
1983	454	11137	11145	3207	3078	27	248	367	4	1	26	29694
1982	325	7724	11414	2770	2674	9	1	481	2	3	37	25440
1981	270	7127	8152	3737	2720	23	1	342	10	1	18	22401
1980	162	3073	6829	3044	1637	6	1	329	7	4	22	15114
1979	108	3285	6988	2151	1515	13	6	354	5	1	18	14444
1978	80	1430	5497	1879	1257	7	1	730	4	6	16	10907
1977	77	1987	6010	1537	1737	2	1	590	14	1	22	11978
1976	30	879	10947	983	1756	19	5	458	3	39	26	15145
1975	79	1401	3280	567	1831	18	3	614	10	0	48	7851
1974	29	1018	2961	579	1690	9	3	507	15	5	8	6824
1973	16	1353	2032	353	1783	5	7	513	8	18	14	6102
1972	30	4020	1963	261	1511	14	11	638	33	84	19	8584
1971	24	2241	209	36	250	10	0	311	1960	26	19	5086
1970	38	192	18	10	23	16	0	1	1567	271	32	2168
1969	36	760	43	13	42	8	1	0	1140	2016	18	4077
1968	1510	1277	368	193	935	7	0	4	29	54485	36	58844
1967	909	1141	306	181	844	2	0	0	5	64	9	3461
1966	902	1293	436	136	1059	2	0	0	0	8	20	3856
1965	841	1246	429	142	1047	7	0	1	2	2	20	3737
1964	744	934	276	139	698	6	0	1	0	3	4	2805
1963	709	720	291	126	808	3	4	0	1	2	8	2672
1962	734	1115	277	205	787	3	0	0	1	14	7	3143
1961	810	1463	548	153	1329	5	0	1	4	2	4	4319
1960	792	657	314	148	655	20	0	0	2	6	1	2595
1950 To 1959	6631	5952	2164	1152	2915	859	16	2	6	23	46	19766
1940 To 1949	6571	7230	4695	363	4914	8452	5	2	4	9	56	32301
1930 To 1939	11422	196	548	17	708	22	1	14	26	26	1268	14248
1920 To 1929	12	4	12	2	8	1	0	0	0	6	9	54
Prior To 1920	1	36	22	2	37	1	2	1	1	4	15	122
Unk.	30	329	33	26	273	6	24	1	6	57	3159	3944
TOTAL	40362	735622	360421	95398	381002	9607	172224	12379	5456	57196	8252	1877919

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STATE	MG	SI	SR	SS	DD	AW	Unc	TOTAL
Alabama	9514	987	356	964	5084	931	16	17852
Alaska	1060	384	43	134	714	265	18	2618
Arizona	8032	3060	586	594	17412	664	28	30376
Arkansas	2355	793	127	378	1449	424	30	5556
California	11686	1240	975	3165	36647	3569	87	57369
Colorado	2845	904	235	502	5466	749	34	10735
Connecticut	14357	1739	333	372	2138	522	30	19491
Delaware	107	12	29	41	70	30	0	289
D.C.	1764	55	27	88	1913	62	0	3909
Florida	12528	5883	370	1272	27437	2087	56	49633
Georgia	16135	7155	336	4309	4393	1291	59	33678
Hawaii	201	6	39	27	291	35	4	603
Idaho	1437	331	131	187	1877	427	22	4412
Illinois	8571	318	365	1077	10550	940	220	22041
Indiana	9009	2002	212	2420	8709	798	69	23219
Iowa	1016	74	159	461	2575	863	26	5174
Kansas	1114	59	175	403	3352	638	21	5762
Kentucky	7804	680	222	549	2099	549	38	11941
Louisiana	3140	613	173	499	4695	474	20	9614
Maine	1538	336	140	194	699	532	20	3459
Maryland	5877	1465	235	518	14871	649	31	23646
Massachusetts	3941	149	264	340	1741	736	54	7225
Michigan	5507	660	342	621	3702	1105	58	11995
Minnesota	2039	435	213	676	4758	1227	66	9414
Mississippi	2124	68	104	357	851	285	10	3799
Missouri	3269	315	296	1014	4190	1041	63	10188
Montana	1188	46	118	150	449	331	12	2294
Nebraska	1231	161	153	316	700	641	22	3224
Nevada	3626	769	92	225	2519	290	14	7535
New Hampshire	3096	348	88	85	659	266	12	4554
New Jersey	3130	515	132	588	12301	408	25	17099
New Mexico	2214	425	156	252	4763	183	17	8010
New York	4260	161	415	642	6516	757	49	12800
North Carolina	4757	1307	237	650	5976	598	37	13562
North Dakota	610	960	60	109	227	146	7	2119
Ohio	11167	2013	570	1016	18546	1429	137	34878
Oklahoma	6976	1240	331	825	2378	894	37	12681
Oregon	3888	1702	567	578	3733	1260	54	11782
Pennsylvania	11061	1812	640	851	7681	1304	100	23449
Rhode Island	336	6	33	41	638	39	6	1099
South Carolina	2178	243	192	548	3012	540	18	6731
South Dakota	553	66	60	119	321	320	12	1451
Tennessee	5394	1806	219	904	6476	893	35	15727
Texas	17046	14183	1200	2974	16919	3033	176	55531
Utah	2603	294	74	189	2641	184	11	5996
Vermont	794	65	41	36	274	64	4	1278
Virginia	8531	1694	372	794	13478	1524	51	26444
Washington	1507	311	449	469	6524	1278	27	10565
West Virginia	1205	175	159	177	211	318	3	2248
Wisconsin	3209	843	188	462	5985	638	20	11345
Wyoming	1074	96	79	157	19350	280	13	21049
Puerto Rico	537	4	6	2	34	1	0	584
Virgin Islands	29	0	0	0	0	0	0	29
TOTAL	239170	60968	13118	34321	309994	38512	1979	698062

and enacted the Constitution in 1787-88. If they are lawful and all their legislation carries the authority of law, then maybe, just maybe, the Declaration of Independence is a law!

Please look up the Federal Code of Regulation 5 (1) APPS451 of the Selective Service Act. Under this law, it is a federal felony, not to report your "change in status" of draft eligibility within 10 days to your draft board. To the best of my knowledge, when Bill Clinton reneged on his contract to the UN/ARK ROTC, he waited 60 days to notify the draft board Sept 1 69, Oct 31 69. ROTC is a 1-D status and if you do not attend classes/ROTC, you are 1-A! Bill Clinton committed a felony. Bill Clinton was pardoned on Jan 21, 1977, by President Carter.

Don S.

A Point One: "full faith and credit" would mean that one carry permit in one state should be honored in any other state.

Point Two: If the Declaration of Independence IS law, then Point One is a "moot point."

Point Three: If Carter pardoned Clinton in 1977, does that mean that I have to let go of my contempt for Clinton? No, the truth will out, eventually, and hopefully this enemy of the Constitution will be exposed, (probably the wrong word to use around him) and maybe, just maybe, we can go on to repair some of the damage that he and his cronies have done to our Freedom.

Q Although I live in a non-Class 3 state, I enjoy reading *MGN*. It's very interesting and must be very helpful for machine gunners. Hopefully, you can help me with my non-Class 3 problem.

I am thinking of buying an M60 semi-auto parts kit. One question is: How would I go about registering a semi receiver? Also, if I ever sold it, could I sell it person to person without a license?

Mark J

A Semi-automatic firearms that do not meet the description of an "assault" firearm that is codified in the 1994 Crime Bill, ie: they do not have the characteristics identified on an "assault" firearm in the qualifying amounts and styles, do not have to be registered. The M60 semi-auto does not make the list if the barrel isn't threaded or have a flash suppressor. If you want to make it with the dreaded "assault" characteristics, then you would have to have a Type 07 Manufacturer of Firearms FFL. Then,

the firearm is recorded on your yearly report (by quantity of type, not model) and the firearm is marked with the date of manufacture. It is restricted to law enforcement ownership. If you make it yourself, for yourself, without the dreaded characteristics, then you need only mark your name, town and state on it, with a serial number. There is no reporting requirement. The catch? If you are making a semi-auto copy of a machine gun, you had better be real sure that the Technology Branch isn't going to declare your design "readily convertible" to a machine gun. It happens more frequently than you might think. Your semi-auto M60 that you are purchasing, if it is a Rock Island Armory piece, has been approved as a semi-auto by ATF. One interesting note—when the kit leaves a manufacturer, they usually have not paid Federal Excise Tax on it. If all of the parts are in the kit, they owe it; 11% of the sale price. If it is missing the barrel, or otherwise incomplete to government specs, no tax is owed. If you buy the kit, complete it, then sell it, 11% is going to be owed. If it was obviously your personal firearm and you had it for a while, then sold it, no problem. If you start doing a few of them, plan on getting a Type 07 and paying your FET. People go to jail for tax evasion.

Q Attached is copy of a Form 3 for a Post-May MP5. The sear is the only item described on the form, nothing other than "MP5" is given. Also, my understanding from the dealer I purchased it from is that during the last inspection prior to my purchasing it, the inspector was confused since the number on the paper work did not match the gun. My question, after researching the Dealers Bible without luck, is: Would it be a proper move to remove the sear, destroy it according to ATF rules, and replace it with my transferable registered HK sear and marry the sear to the gun (in block 3h)?

I need to know my legal standing on such a move. I don't know if I am fortunate to have such an easily converted gun or if it's a true Post-May with all the inherent restrictions. I have been told both ways and am looking to your expertise for help.

Anonymous

A Your firearm is a Post-86 Dealer Sample MP5 submachine gun. The receiver is registered part. These guns were manufactured in Germany, then purchased as used firearms by Springfield Armory back around 1989. They were refinished, then

BUREAU OF ALCOHOL, TOBACCO AND FIREARMS								
NFA WEAPONS INVENTORY - BY YEAR OF CURRENT OWNERSHIP								
YEAR	MG	SI	SR	SS	DD	AW	UNC	TOTAL
1994	20600	6295	269	3222	65362	894	168	96810
1993	14849	10623	261	1308	67224	661	7	94933
1992	21659	4716	327	2494	34557	965	2	64720
1991	15073	4206	255	1000	32833	446	0	53813
1990	19075	7229	185	3089	46722	1146	2	77448
1989	12898	4464	125	1036	31710	1405	6	51644
1988	16701	5894	117	706	3983	544	2	27947
1987	16344	4029	150	453	5275	541	5	26797
1986	16293	2850	75	394	1674	353	7	21646
1985	7616	1458	57	343	2882	285	2	12643
1984	7301	1327	90	247	3602	433	5	13005
1983	5210	1109	57	319	780	601	7	8083
1982	4080	995	58	454	76	317	11	5991
1981	4353	857	70	258	75	250	16	5879
1980	3201	698	69	222	38	171	7	4406
1979	2934	539	68	214	74	193	2	4024
1978	2261	489	83	423	67	223	6	3552
1977	1994	475	69	697	25	196	5	3461
1976	2035	508	61	243	82	389	9	3327
1975	1588	209	74	386	137	140	12	2546
1974	1378	184	57	259	47	321	6	2252
1973	1050	125	79	215	45	412	6	1932
1972	951	102	90	259	67	658	8	2135
1971	879	78	37	123	30	569	4	1720
1970	576	8	59	90	47	203	1	984
1969	712	22	179	253	883	356	9	2414
1968	12713	612	5591	8223	11349	11836	324	50648
1967	783	13	113	183	19	451	6	1568
1966	959	8	102	183	8	490	6	1756
1965	782	13	95	254	33	584	6	1767
1964	594	5	94	205	10	352	1	1261
1963	718	9	105	184	0	325	6	1347
1962	754	2	136	163	3	394	2	1454
1961	1255	3	137	184	8	409	1	1997
1960	718	4	108	193	5	422	13	1463
1950 To 1959	3934	73	812	1255	28	3479	59	9640
1940 To 1949	12246	146	1601	1258	58	3250	141	18700
1930 To 1939	1973	579	1177	3293	27	3810	334	11193
1920 To 1929	11	0	3	5	3	1	1	24
PRIOR To 1920	12	4	1	2	33	2	0	54
Unknown	107	8	22	29	113	35	764	1078
TOTAL	239170	60968	13118	34321	309994	38512	1979	698062

imported for law enforcement or dealer sample use. Because the firearm is a machine gun, it cannot legally be converted to a semi-auto, which is what you would have to do in order to install the registered sear.

People have done this before, but they are in for a rude awakening when they try to keep the firearm, and God forbid that

they transfer it as a "sear gun" to someone. ATF will prosecute for an illegal transfer!

Questions to:

Dan Shea, c/o MGN
PO Box 459
Lake Hamilton, AR 71951

BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
NFA REGISTRATION ACTIVITY - BY STATE OF APPLICANT

STATE	F1	F2	F3	F4	F5	F6	F10	LTR	4467	OTHER	TOTAL
ALABAMA	727	3855	8567	3711	15067	69	213	69	1911	54	34
ALASKA	166	77	2021	793	1023	4	34	20	175	21	4
ARIZONA	1052	46028	15862	5702	9454	55	145	242	4233	198	82971
ARKANSAS	548	3482	3585	1623	3048	60	78	10	627	34	13095
CALIFORNIA	4010	13028	11156	540	44166	858	1368	524	5305	2696	83651
COLORADO	1003	1267	5099	1574	6772	109	129	62	716	92	16823
CONNECTICUT	444	121514	8834	3392	3499	211	263	64	878	82	139181
DELAWARE	25	1	16	5	97	26	31	18	105	2	326
D.C.	86	667	1161	20	3313	153	3	16	95	262	5776
FLORIDA	1023	79173	23872	6354	22445	133	490	316	1918	176	135900
GEORGIA	933	39236	34844	5360	17766	112	150	213	2053	175	100842
HAWAII	79	7	9	5	506	17	39	7	89	3	761
IDAHO	282	220	2096	928	2746	44	93	13	481	80	6983
ILLINOIS	1711	6752	13486	615	13989	640	523	582	2008	233	40539
INDIANA	1166	831	10038	5476	16170	200	243	57	911	103	35195
IOWA	1025	254	389	282	3145	181	141	30	731	50	6228
KANSAS	685	109	1068	172	4609	134	190	63	794	56	7880
KENTUCKY	596	8063	9569	2497	4092	189	309	120	1045	63	26543
LOUISIANA	471	508	3549	683	6580	127	174	131	923	37	13183
MAINE	469	8503	3807	623	1181	43	87	63	545	26	15347
MARYLAND	456	2378	9857	4012	15897	173	100	148	873	120	34014
MASSACHUSETTS	1160	5019	3633	1210	3042	266	145	93	853	155	15576
MICHIGAN	1177	3912	2738	605	6118	632	298	134	1740	67	17421
MINNESOTA	1537	727	1818	1170	5626	191	176	64	544	128	11981
MISSISSIPPI	200	29	1815	1017	1770	47	87	35	778	30	5808
MISSOURI	1630	2288	3711	901	5508	208	285	28	1065	377	160
MONTANA	292	54	1233	444	762	45	299	6	431	12	3
NEBRASKA	428	59	1754	870	1192	110	107	21	853	40	5434
NEVADA	368	1432	5034	2096	3526	20	53	48	245	24	12846
NEW HAMPSHIRE	181	8606	2785	815	1525	39	146	7	335	5	14444
NEW JERSEY	706	1251	2063	91	19992	235	275	95	674	151	25533
NEW MEXICO	324	1283	2394	1149	6341	42	84	10	303	29	11959
NEW YORK	888	11925	4029	180	9966	563	451	184	724	1009	29919
NORTH CAROLINA	453	702	5466	1812	8404	125	551	189	1535	118	19355
NORTH DAKOTA	179	877	444	223	326	47	257	2	181	9	2545
OHIO	1663	125270	24553	5440	15213	635	464	310	2133	197	175878
OKLAHOMA	876	14830	9511	2743	4951	124	415	40	1369	90	34949
OREGON	1309	2776	5581	2475	5217	80	216	31	1439	81	19205
PENNSYLVANIA	1292	8232	27139	6170	8867	789	443	131	2297	425	55785
RHODE ISLAND	73	204	256	84	1018	18	92	14	98	9	1866
SOUTH CAROLINA	237	10513	354	59	3949	98	176	20	1438	11	16855
SOUTH DAKOTA	354	2	275	188	609	49	109	1	226	31	1844
TENNESSEE	780	12267	18273	3703	8438	176	229	87	1687	635	46275
TEXAS	3942	30142	37624	9671	23222	429	759	438	3339	421	109987
UTAH	237	7028	2689	687	2254	72	116	59	610	24	13776
VERMONT	69	2895	641	156	573	14	27	9	130	7	4521
VIRGINIA	718	29976	10653	3555	16834	354	374	349	1892	122	64827
WASHINGTON	1019	396	550	708	7487	135	209	51	2141	67	12763
WEST VIRGINIA	227	77	816	516	652	272	56	16	662	11	3305
WISCONSIN	682	544	4553	1900	7806	194	189	106	812	29	16815
WYOMING	369	110353	3092	364	2472	41	485	4	215	15	11
PUERTO RICO	0	1	2	2	582	2	0	0	2	1	592
VIRGIN ISLANDS	0	0	1	1	29	0	0	1	0	0	32
OTHER	35	5999	6056	26	1166	17	3	105	29	171583	185019
TOTAL	40362	735622	360421	95398	381002	9607	12379	5456	57196	180476	1877919

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Hawkeye Arms will be liquidating the remaining inventory of Bill's Guns of Greenville, NC

1. Ward Machine 9mm Suppressor \$ 325.
2. Precision 9mm SMG Suppressor w/3 Lug \$ 450.
3. FN Fal G1 Post-86 \$ 875.
4. Remington 782 .22 mag. w/Ciener Suppressor \$ 650.
5. CAR-15 XM177 carbine \$ 4500.
6. Wilson STEN tube + parts kit \$ 500.
7. SACO Lowell (qualified) M-60 Post-86 ... \$ 3000.
8. SWD M-11 9mm Suppressor \$ 275.
9. Ithaca 37, 20ga. SBS by Norrel \$ 350.
10. Mossberg 500, 20ga. AOW by Ben's Gun Shop \$ 350.
11. 1928 Thompson British Lend Lease Finned Cutt's \$ 3500.
12. H&R M-14 w/amnesty papers \$ 5000.
13. MP5 Post-86 Sample \$ 700.
14. Uzi Post-86 Sample \$ 300.



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| AM-180M2 .22 cal. | \$1800. | 1928 Colt water cooled w/belt | |
| MAC 10 9mm or .45 new | | loader like new..... | \$4000. |
| powder springs..... | \$1000. | HK reg. sears 9mm .223 .308 | \$ 600. |
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| pac..... | \$ 650. | rec..... | \$ 600. |
| HK-51 .308 cal. Fleming test | | AM-180 .22 cal. original laser | |
| fired only..... | \$3200. | w/barrel..... | \$ 600. |
| HK-53 .223 cal. sear gun like | | HK semi auto trigger PAC..... | \$ 150. |
| new..... | \$3400. | AM-180 .22 cal. rec. only..... | \$ 800. |
| Valmet 78 .308 cal. Fleming HB | | | |
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| MPi-81 like new..... | \$ 500. | Steyr Aug like new..... | \$1800. |
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Archive Photo of the Month

From the Robert Bruce Collection



Camp Wheeler, GA., 4 February 1918. Doughboys of the Army's 31st Division conduct a firepower demonstration with an array of vintage machineguns: (left to right): Vickers, Colt, Benet-Mercie, Chauchat, Lewis. Credit: U.S. Army Signal Corps/National Archives. Copyright © 1995 **ROBERT BRUCE PHOTOGRAPHY** Editor's Note: Robert regrets that he cannot handle individual requests for photographs. However, publishers and documentary filmmakers, etc., are encouraged to contact him for information on use of archive images. Send a self-addressed stamped envelope and details on intended use to **ROBERT BRUCE PHOTO, P.O. Box 482 MGN, SANDSTON, GA 30150.**

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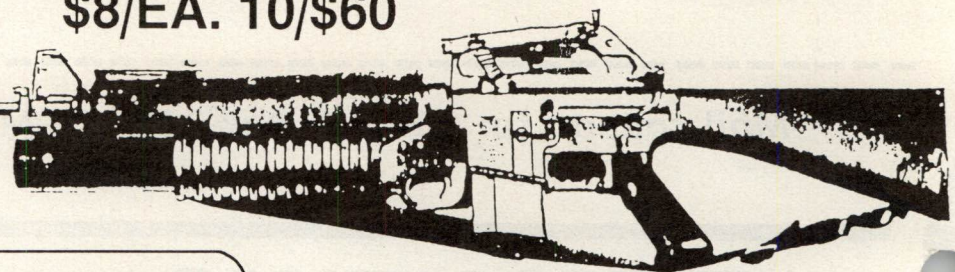


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WANTED 110

M-76 Valmet parts desperately needed! The BIG parts guys couldn't help me. Now I'm turning to my fellow MG'ers! Folding stock assembly & plastic forearm needed. Chris (205) 381-2975 after 5 CST or 1207 Greer St. Sheffield, AL 35660.

Wanted: Colt M16-A2-M4, original factor 14.5" 5.56mm, Model 727. Must be transferable, no Post-86 DS or parts guns, 100% NIB preferred, but not required. (703) 793-4925 (voice & fax 24 hour) Fairfax, VA (xbapr)

Wanted: History information on Thompson 21A, number 338, from 1921 to 1991. Any history to fill in the gaps would be greatly appreciated. Gordon Herigstad, 208 So. Frederic St., Burbank, CA 91505. Message anytime (818) 566-1776 (xjun)

Wanted: Thompson .22 caliber drum; Also .22 cal. 10 and 30 shot clips; violin case; owners manual; any literature for Thompson .22 caliber semi-automatic. Richard Longseth Box 339, Sioux Falls, South Dakota 57101. Phone collect (605) 449-4759.

Wanted: FN "D" demil receiver (cut per ATF) and/or receiver prints as basis for "dummy" gun. Also CZ25 parts set w/cut receiver. Any reasonable price paid. Bill (610) 869-4971.

Wanted RPD light machine gun, parts and accessories. Cash sale or classic MGs trade available. Price, condition, and photo to: Richard Satterfield, 1308 NE Quail Creek Rd, Lawton, Oklahoma 73507. (xapr)

Wanted: Colt M16 9mm SMG, Model 635, original factor 10.5" 9mm "D.E.A. gun." Must be transferable, no Post-86 DS or parts guns, 100% NIB preferred, but not required. (703) 793-4925 (voice & fax 24 hour) Fairfax, VA (xbapr)

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

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For Sale: U.S. 57mm anti-tank gun, registered, partial restoration \$13,000. Radio Controlled Drone M56 Scorpion tank w/cannon, only one known to exist, unrestored \$15,000. Complete unrestored M75 A.P.C. \$20,000. 1944 GMC CCW 2 1/2 ton compressor truck 80% restored, rust free, \$20,000 invested, sacrifice \$10,000. M9 International Half-Track, no rear armor, unrestored, large quantity of parts included, \$3000. All FOB Mattituck, NY. Wm. Gasser (516) 588-0033 evenings only. (xjan)

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Thompson 110 to choose from. Curtis Earl (602) 264-3166. (xjun)

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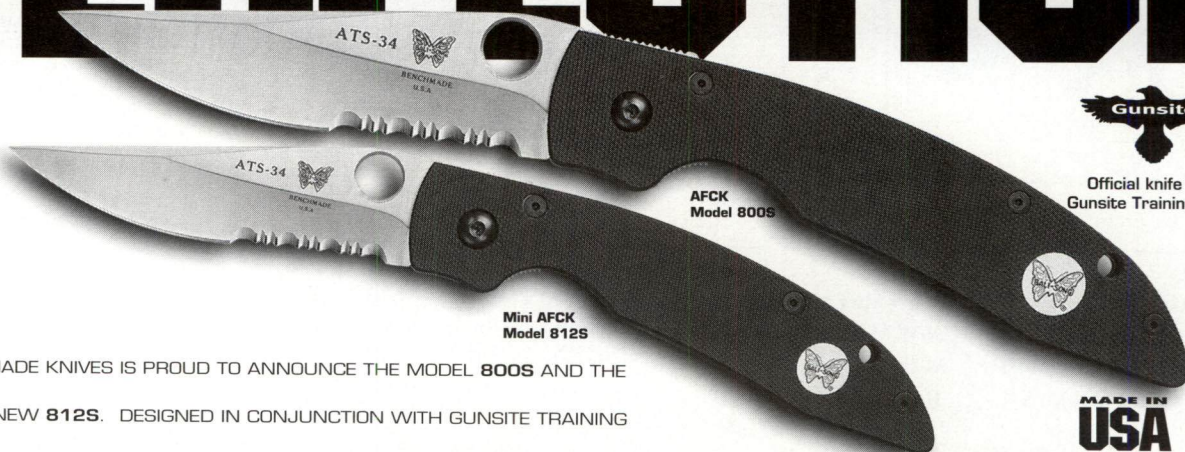
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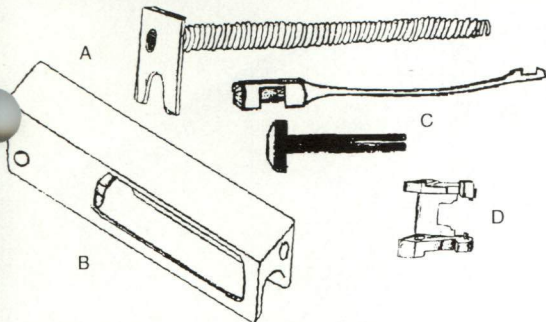
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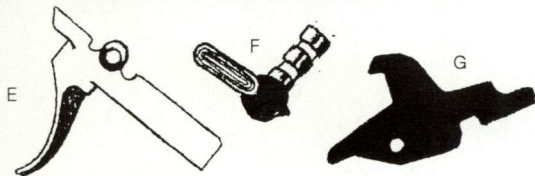
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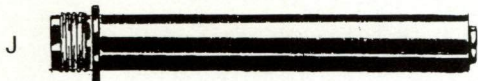


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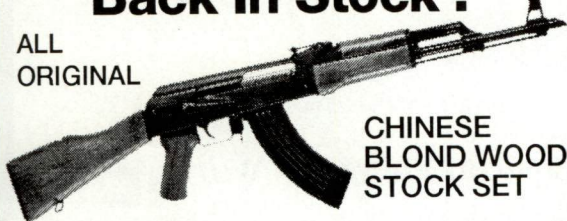
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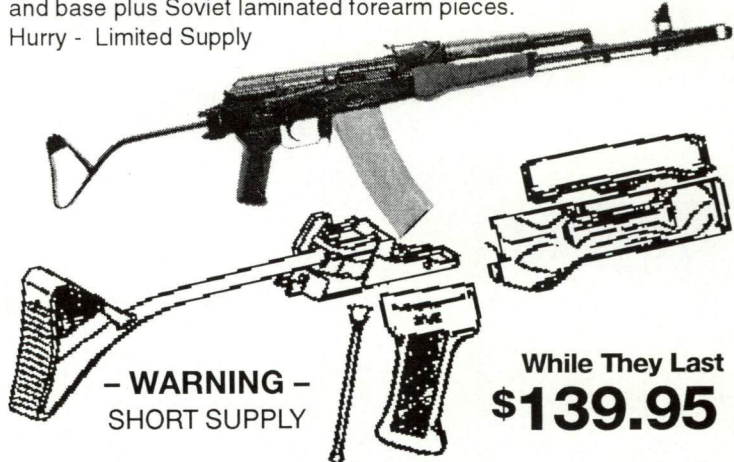
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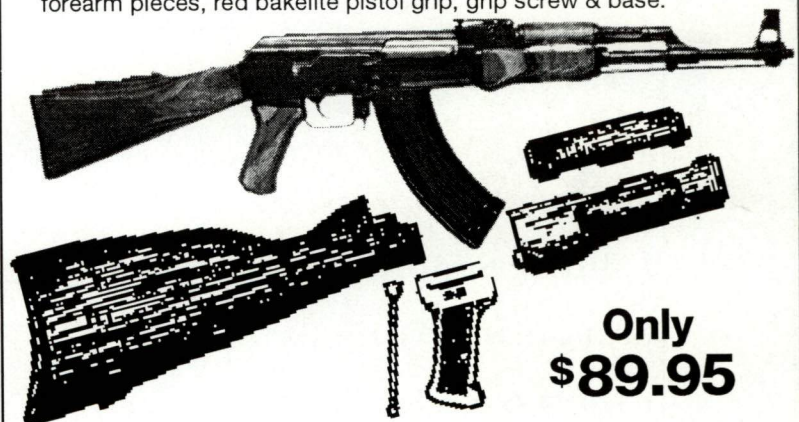


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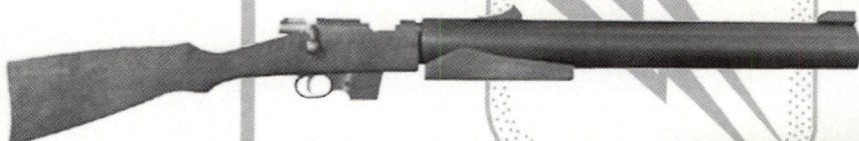
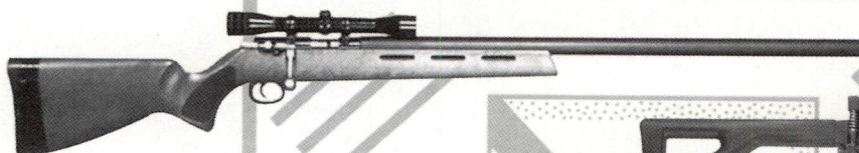
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