

# Machine Gun News



**CZ247  
Submachine Gun**

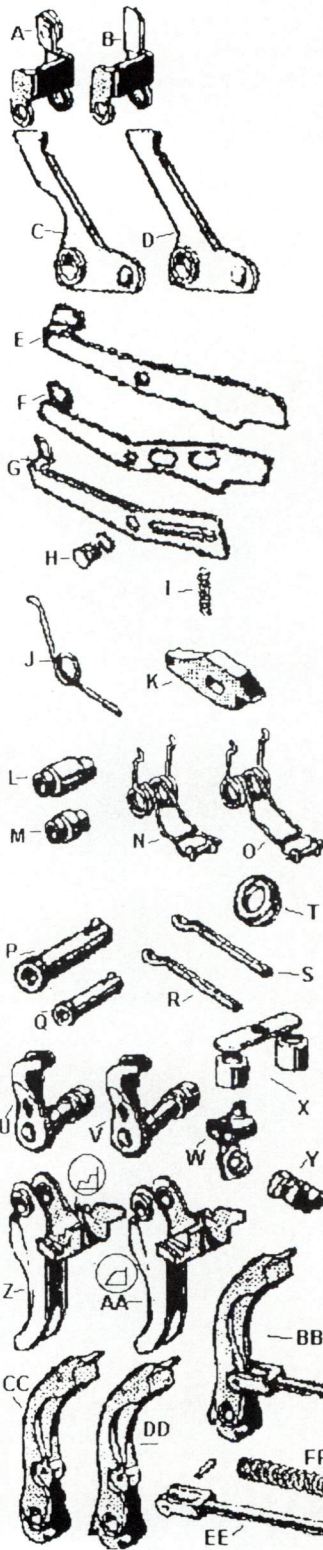
**Johnson Model 1941**

**MacMatch Ready  
Ultimate M11**

**How to:  
Fabricate Tokarev 7.62x25 Cartridges**



# LMO PARTS



## ASSORTED NEAT PARTS

1918 BAR leather vehicle case. Pre-WWII. I've only seen this one!..... \$ 375.  
 STEN MKII parts set..... \$ 125.  
 Madsen M-50 parts set..... \$ 195.  
 1918/A2 BAR stock—this is a rare one-English Para troopers skeletonized buttstock.  
 Only one..... \$ 350.  
 German WWII 82mm mortar bipod assbly, have 1..... \$ 225.  
 U.S. 81mm bipod assbly—for the M-29, finned bbl..... \$ 275.  
 Mortar sights 60mm, new..... \$ 95.  
 Soviet RPG-18 (their LAW tube) inert, real neat..... \$ 295.  
 German Armbrust, (their LAW style launcher, one..... \$ 375.  
 Yugo M57 Like RPG, inert..... \$ 375.

## HK NEEDS

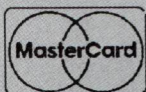
A. Roller Catch..... \$ 28.  
 B. Friction Catch..... 25.  
 C. Roller Trip..... 18.  
 D. Friction Trip..... 22.  
 E. G-3/91 Ejector..... 25.  
 F. 33/93 Ejector..... 35.  
 G. MP5/94 Ejector..... 45.  
 H. Ejector Axle..... 8.  
 I. Ejector Spring..... 5.  
 J. Trigger Spring..... 7.  
 K. Primary Sear..... 15.  
 L. Distance Sleeve—MG..... 8.  
 M. Distance Sleeve—SA..... 12.  
 N. Elbow Spring—SA..... 8.  
 O. Elbow Spring—MG..... 6.  
 P. Butt/forestock pin..... 8.  
 Q. Trigger group pin..... 6.  
 R. MP5/94 Ejector Spring..... 8.  
 S. G3/91/33/93 Ejector Spring..... 5.  
 T. Nylon Guide Ring..... 4.  
 U. Selector, Mtl Housing..... 28.  
 V. Selector, Plstc Hsng..... 45.  
 W. Flapper mag Release..... 38.  
 X. Locking Roller SET..... 22.  
 Y. Extractor..... 28.  
 Z. Trigger—MG..... 45.  
 AA. Trigger—SA..... 22.  
 BB. MG Hammer w/Shank..... 55.  
 CC. Hammer, Semi-auto..... 15.  
 DD. Hammer, MG..... 45.  
 EE. Pressure Shank..... 18.  
 FF. Pressure Shank Spring..... 9.

## BARRELS:

BREN BARRELS: .303, exc. to new  
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 new..... \$ 175.  
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 Steyr AUG 24" Hbbl w/bipod..... \$ 895.  
 M60 E-3, Military, exc..... \$ 475.  
 M60 E-3 RIA set-up, new..... \$ 450.  
 Beretta PM12S/12 9mm bbl..... \$ 195.  
 Hotchkiss Universal 9mm..... \$ 50.  
 9mm blanks, 5-9", per inch..... \$ 1.  
 MG/08-15, 8mm..... \$ 75.  
 1919A4 .30-06, new in wrap..... \$ 85.  
 M60, standard, used, bipod..... \$ 195.

## MAGAZINES—ALL IN STOCK AT LMO:

Magazine	Quantity	Price Ea.
MP-28-II 20-rd, nice	2	\$ 45.
MP-5 30-rd straight	3	45.
AR-7 15-rd .22 cal.	2	45.
Lewis 47-rd pan. used	1	75.
Colt 9mm 32-rd, exc.	2	65.
MK760 9mm, new	2	65.
Port Said, 9mm	2	65.
Madsen M-50, 9mm, new	5	55.
Madsen LMG 7mm	1	80.
Beretta 12S, 32-rd	3	85.
Beretta AR-70 30-rd	5	195.
Walter MPL, 30-rd	2	65.
Steyr AUG, 30-rd	8	65.
Steyr AUG, 42-rd	8	85.
Thompson 30-rd	10	22.
Thompson 50-rd drum, AO	2	175.
Galil, .223, 50-rd	5	125.
AK .223, 30-rd	2	35.
Johnson 1941, .30-06	3	45.
Chauchat 8mm Lebel	6	18.
Reising 50, 20-rd	3	65.
Czech VZ-52LMG 30-rd	1	75.
Neuhausen 50-rd 9mm	8	22.
MAC10, .45 cal., new	22	45.
M11 9mm Zytel 32-rd	18	35.
Bren .303, 12/case	3cs	145.
Uzi 32-rd, original	11	45.
Uzi .45 cal.	1	65.
Steyr MPI-81, 32-rd	2	45.
M16 .22 kit, Ciener, 30	2	65.
Hotchkiss Universal	25	25.
AR-15/M16, U.S. used 30	15	15.
AR-15/M16, U.S. used 20	10	15.
M3 Greasegun mags, new in the wrap 30-rd .45 cal.,		25.
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	10 @	20.
	30 @	18.
	50 @	15.
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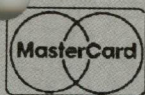
## Brokered Weapons for Sale:

- |  |  |   |
|--|--|---|
| MG520. FNC reg. rec. NIB                                     | MG265. Thompson M1 Mint piece          | MG191. Remington Model 17 short bbl.    |
| MG522. FNC Paratrooper folder                                | MG277. AR-180 Armalite, exc. reg. rec. | MG578. Transferable Vickers by Erb      |
| MG622. S&S M14 side folder                                   | MG278. Valmet M78 exc+ w/bipod         | MG618. German MP40, match orig. finish  |
| MG674. M249 Minimi w/extras                                  | MG594. Ruger AC556 vg. to exc. cond.   | MG173. H&R M16A1 reweld U.S. markings   |
| MG057. PAWS ZX-5 like new reg. rec.                          | MG303. S&W 76 W/MK bbl & grips         | MG203. Micro UZI bolt gun like new      |
| MG058. Owen MK 1/42 Pre-86 DS                                | MG315. H&R M50 Reising 85% cond.       | MG209. Belgium FN-30 is a C&R gun       |
| MG677. Pre-86 orig. HK G3 complete setup w/box, scope & mags | MG322. Colt 1919A4, 95% Prototype      | MG588. Ramo 1919A4 w/accessories        |
| MG071. FN Model D real nice Pre-86 DS                        | MG430. Steyr MPI-81 exc. Post-86       | MG589. Reising Model 50, real good      |
| MG072. Johnson 1941 exc. .30-06                              | MG457. Colt AR-15 reg. rec. as new     | MG659. MAC 10 RPB orig. PS. frame       |
| MG073. Savage .30-06 Model 1918 Pre-86                       | MG460. HK33E in .223 Pre-86 DS         | MG660. HK21 reg. rec. done by Vollmer   |
| MG084. S&H Arms Ingram 6 in 9mm                              | MG462. Finland Suomi exc. refinished   | MG661. Swedish K Pre-86 DS mint         |
| MG089. Mauser 1932 Schnellfeuer Pre-86                       | MG476. S&H Mfg. FN-C w/Blaylock spr.   | MG600. HK51 by Vollmer NIB              |
| MG091. Celco 7.62 AK 47 orig. Chinese                        | MG475. Nessa Browning 1918A2, Pre-86   | MG535. HK MP5A3 reg. rec. NIB           |
| MG582. WWII Jap 99 DEWAT 99% finish                          | MG474. Catco 1919A6, only 1000-rds     | MG541. HK 53k NIB reg. sear             |
| MG583. 1921 Colt 45 DEWAT                                    | MG490. SWD M11A1 in 380 reg. rec. NIB  | MG549. HK G3 good cond. reg. rec.       |
| MG107. S&W Model 76 like new                                 | MG637. Beretta AR70 reg. rec. mint     | MG602. HK 33 w/folding or full stk.     |
| MG111. Post-86 Rock IS. M60                                  | MG650. HK 33A3 Pre-86 DS exc cond.     | MG605. MP5K SD by Fleming vg. cond.     |
| MG584. WWII German MG42 DEWAT                                | MG654. UZI Pre-86 DS vg. cond.         | MG606. HK G3 reg. rec. exc.+            |
| MG682. Ber. AR 180 side folder                               | MG656. S&H Arms MP5A3 like new         | MG610. Qualified Steyr Aug 20" green    |
| MG686. Valmet M78 as new                                     | MG657. Post-86 M3 grease gun           | MG693. A/O 1928 Thompson                |
| MG062. AR 180 M2 American Arms                               | MG658. Colt M16A1 exc. w/extras        | MG616. UZI IMI 9mm Pre-86 DS            |
| MG064. Soviet PPSh41 w/orig. drum                            | MG606. HK G3 reg. rec. exc.+           | MG622. Walther MPL vg+ Pre May 86       |
| MG581. WWII German DEWAT MP-42                               | MG610. Qualified Steyr Aug 20" green   | MG619. MP5A3 new sear gun w/extras      |
| MG066. M2 Pistol U.S. carbine mint                           | MG694. MG 34 w/extras                  | MG551. FN Fal .308 reg. rec. NIB        |
| MG067. M78 Valmet like new qualified                         | MG697. York Arms MKII in 9mm           | MG555. Galil ARM 372 good reg. rec.     |
| MG069. Beretta 38/42 reparked                                | MG701. Werke MP40 Pre sample           | MG561. MPI-69 Pre-86 DS good            |
| MG243. FN FAL .308 vg. Pre-86 DS                             | MG627. DLO 1919A4, only 2000-rds fired | MG601. HK G3 reg. rec. full stk.        |
| MG244. FN .308 G1 NIB Pre-86 DS                              | MG629. Cobray M11 NIB                  | MG579. Colt Thompson 1921/28 95%        |
| MG251. MP-2 9mm I.O.G. mint cond.                            | MG630. M16/AR15 reg. Colt Upper (HTA)  | MG580. H&R Pistol 12 ga. new RR 9" bbl. |
| MG252. UZI 9mm Interarms Pre-86 DS                           | MG631. Thompson 1921, neat shape       | SBS09. Cruso W 12 ga. by Charlie Erb    |
| MG258. Sendra XM15E2 heavy barrel                            | MG632. UZI 9mm Group Inds. NIB         | MG602. HK 33 w/folding or full stk.     |

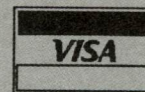
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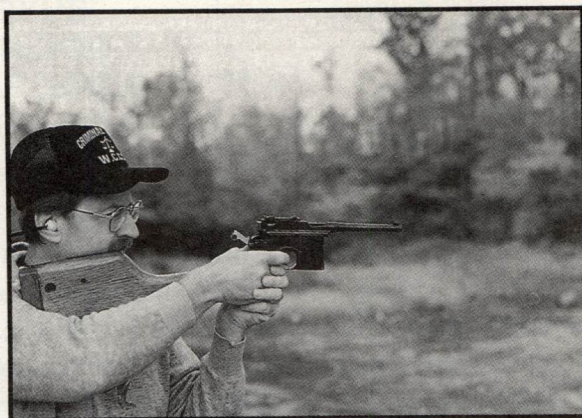


# THE MAGAZINE FOR FULL-AUTO ENTHUSIASTS

# MACHINE GUN

Volume 8 Number 9

February 1995



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On the Cover: This is how a fully loaded glider would have looked from inside just before it landed in enemy territory. Men carry Tommy guns, water, first aid equipment and rations. The men wear parachutes but they are unstrapped when the plane is within 200 feet of ground. Photo by Billy Davis, May 25, 1943.

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

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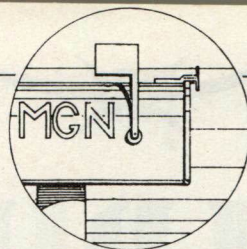
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# Incoming



## THE KOKALIS PROJECT:

This letter is in regard to the Kokalis Project. That was a great interview. I have to commend your staff on this interview. I have to praise Dan Shea for not editing out the "Poster Boy for big, hairy gun owners." He got a steak dinner for that one. Even the criticism of his point of view on analyzing a gun—Dan could have left that out and the readers would not have known. I am so glad that Peter told all of the ill-fated M60 stories. (A few words he used, I had to look up.) I have got to find out what enfilade fire means. Peter didn't pull any punches, but Dan took them like a pro.

Jeff Hopper

Jeff, interviewing Peter was a blast. He is very knowledgeable and has had a lot of exotic life experiences that lend credence to what he says. I have known him for a long time, and usually only hear from him when he is pissed at something I wrote in "The Forms" (this usually leads to some rather interesting letters from him). I do get tired of the "irresponsible bonehead" comments, especially when I am right (usually). Sigh. Regarding the comments in The Interview, Peter and I have "discussed" the virtues of the M-60 GPMG (or lack of them) for many years. He made a lot of good points. I think that Saco Defense countered most of them with the E-4 model, but I have not had a chance to talk with Peter about that. We'll see what his opinion is soon, I am sure. This may surprise you, Jeff, but I didn't get my pretty face and nose by backing off from "discussions." And—MGN is not my special place to get my ego stroked. If we don't tell the truth, and make you feel that you are getting the straightest info that we can give—you will sense that. MGN is not a "fluff" magazine for the sandlot commando. Most of our 25,000+ readers around the world are either law enforcement, military, museum, historical re-enactors, inventors, manufacturers, dealers, or collectors. Every one has different interests and certain parts of the magazine that they like or dislike. If they felt we were "stroking" them, we'd be gone. The factual reporting and record of that interview are far more important than whether my

ego got a little ruffled. Besides, I thought most of it was pretty funny, and if I am going to get "ranked on" I'd rather that it was a professional job. The assault on the M60 was well thought out. You have to

give Peter his due on that one!

You are correct—an enfilade is not a Mexican appetizer. It is a style of firing a machine gun (or other coordinated fire), in which the rounds are directed in the same

*We received this from a subscriber who thought we could use a laugh.  
The following does not constitute an admission of guilt:*

## ARE YOU A GUN-NUT?

**Measure/score yourself...do not send to BATF!!**

1. Did the election of 1992 cancel your plans to name your son(s) after Mr. Eastwood? (*Earlier if you are from Arkansas.*) (3 points)
2. Is "gun control" the reason you bought a suppressor for your MAC SMG? (5 points)
3. Do you spend idle time thinking up obscene acronyms for "BATF"? (2 points)
4. Do you spend July 5th mornings collecting brass in your backyard for reloading? (2 points for each hour spent)
5. You own full auto conversion videos for weapons you don't even have parts for. (2 points for each video)
6. Do you drive to your vacations rather than fly so you can take some of your guns? (5 points, 10 points if you used a U-Haul)
7. Do you have no new cars or appliances since you started amassing your gun collection? (5 points)
8. Which of the following flags do you own? (1 point for each, 2 if flying)
  - A. Confederate "Stars and Bars"
  - B. POW/MIA
  - C. "Don't Tread on Me"
 Bonus: Mozambique (1 point if you know why, 5 if you own one)
9. Do you have unburied, unregistered machine guns, one for each member of the family? (3 points for each weapon)
10. Did your wife leave you because of your "obsession" with guns? (5 points for each ex-wife)
11. How many of the following *alone* suffices as a reason to buy yourself another new firearm? (1 point each)
  - A. It was banned and they might run out. (*Hurry!*)
  - B. Its function is unduplicated in your collection.
  - C. It's easy to convert to full auto. (*Rainy day hypothesis*)
  - D. It's the left handed version of one you have. (*Might lose a hand*)
  - E. Because it's there. (*Mountain climber view*)
  - F. You accidentally wandered into a pawn shop. (*Circumstance*)
  - G. It had a great price. (*No other reason*)
  - H. Pistols fit so well in Christmas stockings.
  - I. There's an empty spot in your latest "Fort Knox" gun safe.
  - J. It might be banned someday. (*Slingshot theory*)
  - K. You only have one other like it. (*In case of jams*)
  - L. Two of the same aren't enough. (*Double jam theory*)

## SCORE:

- 0-10 Liberal
- 11-20 Armadillo (middle-of-the-road)
- 21-30 Neoraffarian
- 31-40 Free spirit
- 41-50 Gun-nut
- 51+ Cult leader



pattern as your enemies' battle line. The official Marine Corps definition is: "Enfilade Fire; fire in which the long axis of the beaten zone coincides with the long axis of the target." You know, I have considered writing a general discussion in *MGN* about the methods of firing a machine gun as opposed to our normal dissertations on the guns themselves. If there are enough interested readers—I will do so. Drop a note or fax to *MGN* and let me know what aspect would be the most interesting.....

#### BALLOTS NOT BULLETS

November 8, 1994, the day America exercised its most precious of rights: the right to revolution. The common man took back a portion of his government. The work, though, is not finished. We must, in the next battle, retake the rest of Congress and the White House. The battle we must not lose will come in November 1996. To this end, I would encourage all of you to support a candidate who will represent what America wants of its government. As for me, I will support the candidates supportive of my views with not only my vote but with my money! I will not purchase that next 1,000 rounds of 7.62x39. Instead, I will donate the money to my congress woman, Tillie Fowler. I will not purchase that assault rifle, I will donate the money to the Legislative Action Committee, an arm of the National Rifle Association.

If you really want to change the political landscape, you must get involved in the political process. The people who want change must quit looking at the romantic notions of armed resistance. I submit, there aren't enough guns in the entire United States to defeat the 101st airborne. So let's practice the methods of our enemies with donations of money to the interests that represent our views and for God's sake, do the one thing that will make a difference, **vote!!**

*Remember, Ballots Not Bullets will preserve our country and Way of Life.*

God Bless America

Mark H.

#### AK-47 INVENTOR

That person looking for the name or address of the inventor of the AK-47: *Mikhail Kalashnikov, Izhevsk, Russia* or he can call any USSR embassy for the information. That guy who wanted less politics in the publication is full of it. We all have to know just what in the hell is going on or else these mothers will blind side us.

Regards,

Roy D.

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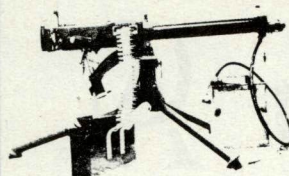
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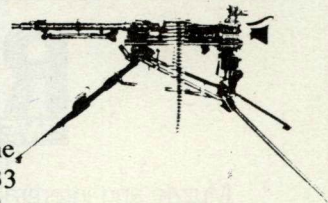
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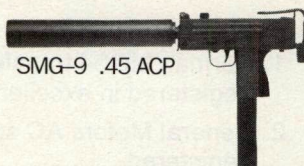
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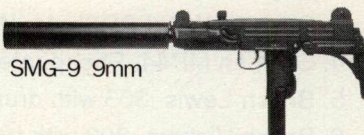
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## RE: "OSS 9MM GREASE GUN"

ARTICLE IN MGN 12/93

BY FRANK IANNAMICO

In reading the above captioned article, I noticed several references to the "Medea" (should read Medea) Corp. M3A1 grease gun reproduction. As I occasionally see references to this and some other weapons which we produced, I felt it may be helpful to furnish a little additional information so as to fill in some information gaps.

Medea Corporation produced the M3A1 "Grease Gun" for a short period of time with less than 100 sold in the civilian market; we manufactured receivers only "in-the-white" with later finishing parts installation left up to the end user or Class III dealers, etc.

Mr. Iannamico was correct in stating that it was an excellent copy as it was produced after EDM cutting of an original Guide Lamp gun and then building progressive die tooling for production to stamp out the receiver halves and all other small parts; in a few guns which were sold in the civilian market an added steel plate will be found at the rear of the receiver due to the M3's propensity for beating out the rear of the receiver after extended shooting. The guns which reached to civilian market were hand-welded (MIG-TIG) numbered/stamped; Medea also produced the M3 although only a few of these and the MP-40 receiver tubes ever reached the civilian market; we also produced various Sten versions (no civilian production) and the BAR 1918-A2 (no civilian sales.)

The M3A1's were manufactured in various calibers including .22 RF, .380, 9mm, and 45 ACP; too bad Mr. Iannamico was not able to track us down a few years ago as we also tooled for production of the 9mm conversion unit (all pieces) for the M3A1 and had acquired a number of original sets for development use. A semi-auto version for the civilian market was planned and proto-types made, but this item was never placed in production.

I trust that this information may be of some help to you and your readers and to clear up a few gray areas as to the origin, etc. of Medea Corp. marked receivers.

Yours truly,

Charles Spano, Jr.,  
President, Medea Corp.

Send your comments to:

MGN c/o Incoming

PO Box 459

Lake Hamilton, AR 71951

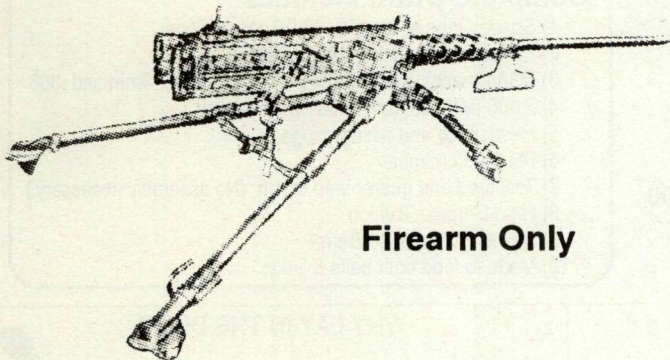


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**(no tripod)**

These Guns are  
Like New Cond.

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Made on special contract from Israeli Gov't. New

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In Great Cond.  
w/one stick mag

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**Orig. G.I. 50-rd. drum  
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In VG+ Cond.

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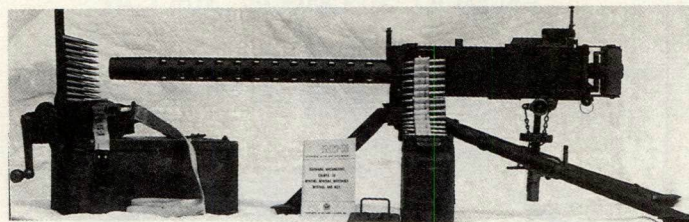
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Complete outfit ..... \$3000.00

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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.

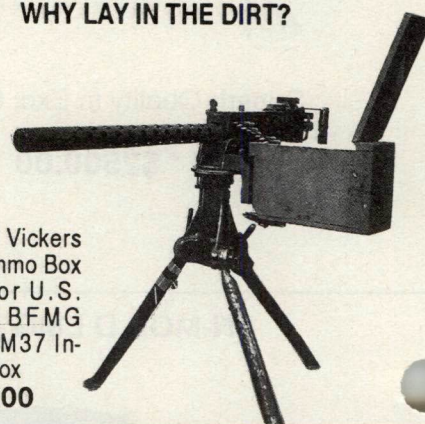
NEW ..... \$2650.00 w/Tripod P T&E ..... \$ 3000.00

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,  
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## WHY LAY IN THE DIRT?



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Tripod w/Ammo Box  
Adaptor for U.S.  
Browning BFMG  
17A1, A4, M37 In-  
cludes one box  
\$385.00

### 1919A6 conversion

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

### Quality Machine Gun Complete Parts Sets

M2 50 Cal. HB Less Right Side Plate	\$1750
ANM2 30 cal. in .308Browning Orig. Comp	\$ 950
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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
MG3 .308 Rheinmetall complete	\$1500
ZK383 excellent cond. with Bipod	\$ 250
Less Bipod	\$ 200
Swedish K Excellent Condition	\$ 250
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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

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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
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MG3 100 rd. Assault Box	\$ 100
MG3 Complete Bolt	\$ 400
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	2/\$170
	3/\$250
1919A4 IMI .308 Cal. Links new in Wrap	1,000/\$ 40
	10,000/\$350
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## \*\*COMPLETE MG34 .308 CONVERSION KIT\*\*

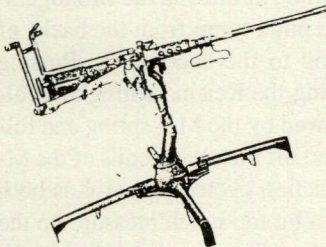
\$650.00



.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.

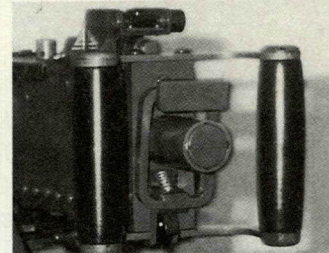
\$350.00

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

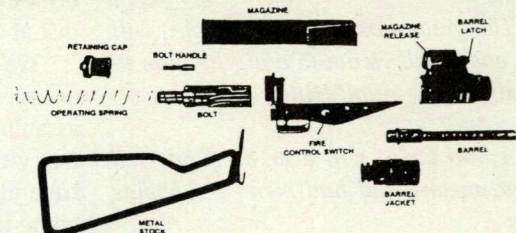
## 1919A4/1917A1 Comp. Space Grip Assembly



\$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

Very Good Cond. ... \$ 150.00

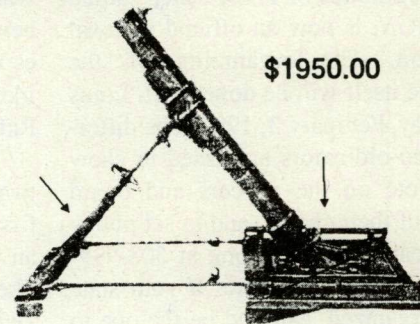
Spare Mags ..... \$ 8.00

Loop Stock ..... \$ 20.00

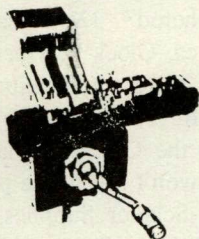
Orig. Sten Slings ... \$ 10.00

## 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

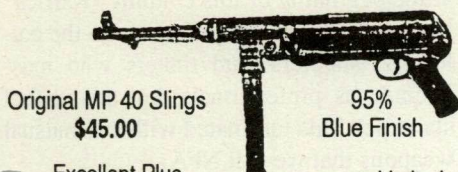
### \*\*MG 34 ACCESSORIES\*\*

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- Flashhider Soaking Can ..... \$ 75.00
- Firing Pin (New Cond.) ..... \$ 20.00
- Firing Pin Spring ..... \$ 10.00
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Flashhider Covers ..... \$ 10.00
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## FINEST CONDITION YOU WILL EVER BUY Original WWII MP40 Part Sets

GRADE A  
\$550.00

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Original MP 40 Slings  
\$45.00

95%  
Blue Finish

Excellent Plus  
Condition

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MP40 Fully-Transferable Finished Receiver. **\$850**  
All NFA Rules Apply.

## 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

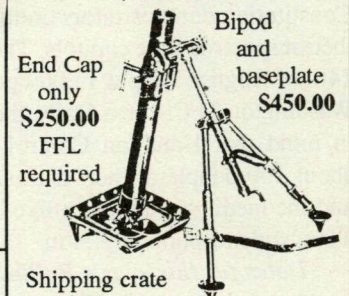
**\$275.00**

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  
\$250.00  
FFL  
required

Bipod  
and  
baseplate  
\$450.00

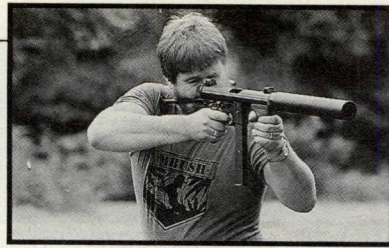
Shipping crate  
\$65.00

Fully transferable on Form 4  
to FFL Individual or Dealer



# Raffica

by DAN SHEA



*Quote: (Something garbled about) "We will not let the Republicans dismantle all of our successful crime fighting measures like the Brady Law and the Assault Rifle Ban."—President Bill Clinton*

*(That is as close as I was able to get the quote.)*

*"The great masses of the people...will more easily fall victim to a big lie than to a small one" —Adolf Hitler*

*"A bad cause will ever be supported by bad means and bad men" —Thomas Paine*

*"Facts will not sway me in this matter"—Diane Feinstein, in reference to the Assault Weapon Ban of 1994.*

Now is not the time to sit back and rest on our laurels.

The Committee of 1776, which started here in MGN, is now an official national corporation. The organizing of the Committee itself will be done in St. Louis on Saturday, February 3, 1995. The different state co-ordinators are asked to show up and vote on the officers and board members of their choice, and to set policy for this year. Call Ron Long at 508-939-4867 to arrange to be there. If your state was not organized, call and be the one to do it! As you know, if you were part of the Rallies for Firearms Rights this last year, our little group that started with the Class 3's snowballed, and on July Fourth weekend, we put between 80-100,000 pro-Constitution demonstrators on the steps of their respective state capitols. Then, on the 14th of August, we put 15,000 people into Washington D.C. for a Rally there. Keep in mind that Handgun Control Inc. gets about 200 people at their national events, and the media covers them like they were a landslide of public opinion.

**Dates for this year's Rallies are:**

National Rally for Firearms Rights-Sunday, June 4th 1995, at the Lincoln

Memorial, in front of the Reflecting Pool, next to the Vietnam Veteran's Memorial. G. Gordon Liddy has already signed on to speak as have some other national figures. I'll keep you posted.

The Rally for Firearms Rights in each state capitol: July Fourth weekend, probably Sunday July 2, 1995. We will decide that at the February 3 meeting.

We can not afford to back off—our enemies have declared that they will keep assaulting our Rights, and the "friends" that we just elected in a REAL landslide have just finished saying that they are not going to tackle the firearms issue, because they don't have a mandate from the people on this issue. Your butts you don't, Congressmen. Those same butts are on the line, and we will throw YOU out next election if you don't straighten out on this issue!

Raffica received a call from an RKI who has the interesting profession of being a magazine manufacturer. He wishes to remain anonymous, but still would like to pass some info on to the Rafficarians....

"The Colt 9mm guns were made in two series, as close as I can ascertain. The first series were the originals. To convert an Uzi magazine to use in the Colt, it is like you showed in Raffica, December 1994 issue. It is important to remember the modification at the upper rear backstrap, as the bolt may scrape, or certainly the ejector will interfere. On the newer models, that appear to have been made after Colt shut down the 9mm project to concentrate on an M-203 run, the problem is different. On these guns, the magazine catch won't lock in, and people have been fixing that by lowering the mag catch slot position on the magazine until it catches. THIS IS THE WRONG SOLUTION. The magazine is hitting the barrel extension in the front. If you lower the catch position, you lower the feed ramp position, and this will mean jamming and unreliability. The "fix" on converted magazines for these

guns is to remove some metal at the top of the frontstrap, as illustrated. It needs to come down around .050-.060 of an inch."

Here's some info from another manufacturer:

"Dan, here's a neat trick we used to do back in the '60's. We made 45- to 50-round Reising magazines by cutting off the collar of the M-3 grease gun mag, cutting the Reising mag off at the base plate and Tig welding or brazing the two together. Then we put a ramp from the backs of the M-3 mag to the back of the Reising mag, inserting the Reising spring and follower, followed by the M-3 spring and follower. We cut off the spring coils of the M-3 until the action cycled properly as both springs put a bit too much pressure on the bolt for the first few rounds to work well. It worked great and gave us a lot of fun shooting! And, by the way, I have so

good deals left on high capacity magazines: "grandfathered" 32-rd. carbine mags for \$30.00 ea, Glock polymer/steel extended mags in 33-rd. 9mm caliber and 29-rd. 40 caliber for \$100.00 each. These are the mags for the Glock 18 machine pistol that Glock won't sell to the public. You can contact Scherer Supplies, Box 250, Ewing, VA 24248, phone: 615-733-2615, fax: 615-733-2073."

OK Tony. That info on the Reising magazine was worth a blatant plug. Hope the Rafficarians out there enjoy this.

In the Reader Survey, there were several inquiries as to the meaning of the word "Raffica". Raffica is Italian for "full auto" or "burst." It is on the selector of my Italian Beretta Modello 12 SMG, pictured at the beginning of this column. "Raffica" has become a generic reference to the collectors, shooters, and tinkers who masquerade as professionals, but are in fact starstruck kids fascinated with the unusual weapons that we call NFA.

Raffica will now answer your fore policy questions.

**Q** Have you ever noticed that when we have a weak, ineffectual president, the creeps and terrorists come out all around



the world?

**A** Yes.

**Q** Should I feel guilty because I watch the news for terrorists and battling tribesmen that I can see what odd and unusual machine guns they are using?

**A** No. This normal impulse should not be stifled, or what intellectual pleasure could one receive from watching the news?

**Q** Why doesn't the world's best trained military force get any respect from these Bozos?

**A** Because the Commander in Chief is a World Class Wienie, and the creeps know he has no direction, and suffers from a total lack of resolve. Perhaps if the First Draft Dodger would get himself and the rest of the bureaucrats out of the way and let the firebreathers and other generally motivated people whack a few of these maladjusted cut throats, we wouldn't be in this predicament. Doesn't anyone know how to speak plainly anymore? They "downed" a helicopter in Korea? The North Koreans shot it down. First you apologize for accidentally violating their air space, then tell them they have 24 hours to release the American fighting men—dead or alive. At the end of 24 hours, you shoot down THEIR aircraft. Bomb THEIR leaders. Make an example of them. Sure, there are consequences. Remember Quadafi after the Libyan bombing run? Our American military personnel are at risk because we get no respect from the various creeps around the world. What the hell happened to that "shining city on the hill?" Taken over by second class wimps and befuddled policy wonks, is what. God, I fervently pray that this next batch of representatives we sent there has some intestinal fortitude.

I had to get that out. Sometimes, it's personal.

(Daa-da da DAHH!)

#### THE MYSTERY PHOTO:

**MP-1** The Mystery Photo appears to be an M16 with an integral suppressor and a steel handguard/charging handle that slides to the rear to remove jams. Or it could be "one of those things" that I saw in some movie at 3am on a fuzzy cable channel. Since I am a RCI (Reasonably Confused Individual) that is a guess.

Robert K. Stundon

**A** Good try.... but, was the channel fuzzy, or did it just "look fuzzy," at the time....

**MP-2** I knew what the mystery bolt was when I first saw it back in November, but I figured somebody else would know too.—I guess I figured wrong. The bolt appears to be from the M3/AN-M3 version of the "fifty cal." The bolt has been machined in several places to lighten it, thereby increasing the cyclic rate for anti-aircraft use. This work started in 1943 by Frigidaire division of General Motors Corp. as the T25 series of guns. Problems with the bolts cracking led to several different configurations, one is illustrated in George M. Chinn's book on machine guns (Volume 3). The AN-M3 was standardized for air force use in 1945. It was the air force that developed the insert type bolt, as opposed to the rotary type most of us are familiar with.

The December mystery photo appears to be a special handguard for the M16/AR-15 series rifles. The setup is designed with an integral barrel nut that holds the barrel to the upper receiver. The purpose behind this arrangement is to provide a "free floating barrel" to increase accuracy. The barrel is free of outside forces and does not bend as much (unless one uses a cheap bipod as shown in the photograph.) This is an item for the long range precision shooter.

Thomas R. Schiffer

**A** An "attaboy" on the M-3 bolt. Regards your second answer...very interesting....

**MP-3** In response to your mystery photo in Raffica of the December issue of *MGN*, we just have one thing to ask, "Do you think we are not Reasonably Knowledgeable Individuals?" We were there too. The photograph was taken at the DPMS table at the Soldier of Fortune Convention in Las Vegas, September 1994. That's a picture of a pump action AR-15/XM-15 "high speed ban buster" assault pump .223. Don't let Sarah B. or Slick Willie see it. Although they might think it has a sporting purpose because it requires more work to shoot. Keep up the good work and sorry that Mr. Kokalis ripped your gun so bad. Tell Stan he should be ashamed for agreeing.

Your friends and fellow  
RKI's at Carolina Ordnance.

**A** You got it. One more reason to go to the SOF Convention, the Shot Show, etc. You get the RKI.

**MP-4** I think I finally recognize something. It's DPMS's answer to a semi-auto

ban. A slide action rifle built on their AR-15/M16 action, no gas required. It was shown at the NRA Convention in Minneapolis this spring. I don't recall what (if anything) they named it. Keep up the good and very necessary work. See you again at KCR in October.

John Chappule

**A** I forgot the NRA Convention—veerrryy important place for the RKI. Yes, you qualify.

**MP-5** As for your mystery photo December 1994: This is an AR-15 series rifle pump action—I suppose its a good way to get around any ban on semi-autos. Next letter I'll tell you where to send my prize. I'm still waiting for your reply on the M3 Browning bolt mystery photo.

Ed Rydberg

**A** Ed, there is a time lag with magazine deadlines, you know. We try to keep as close to publishing date as possible so that the info is fresh and current. This keeps us ahead of the other magazines that are three months out, and you are reading about stuff that happened months ago. I have found that the closer to deadline I cut it, the more current the info you get, and as a side benefit, I can hear the publisher screaming in frustration with trying to get my articles. (Dan, that really isn't funny—Vida). That's why your M-3 answer wasn't in the issue before you wrote to Raffica. You have two RKI's this month.

**MP-6** I finally know what one of your mystery photos is. The photo in the December issue of *MGN* is a photo of the DPMS pump action AR15 style rifle. The new rifle is supposed to be pump operated instead of gas operated. I look forward to *MGN* every month and I like both the legislative information and the machine gun information.

Jeff Stamp

**A** Another RKI weighs in.

**MP-7** Dan, the bolt in your photo is for the .50 caliber plastic training bullet used in the late 1970's.

Woody English

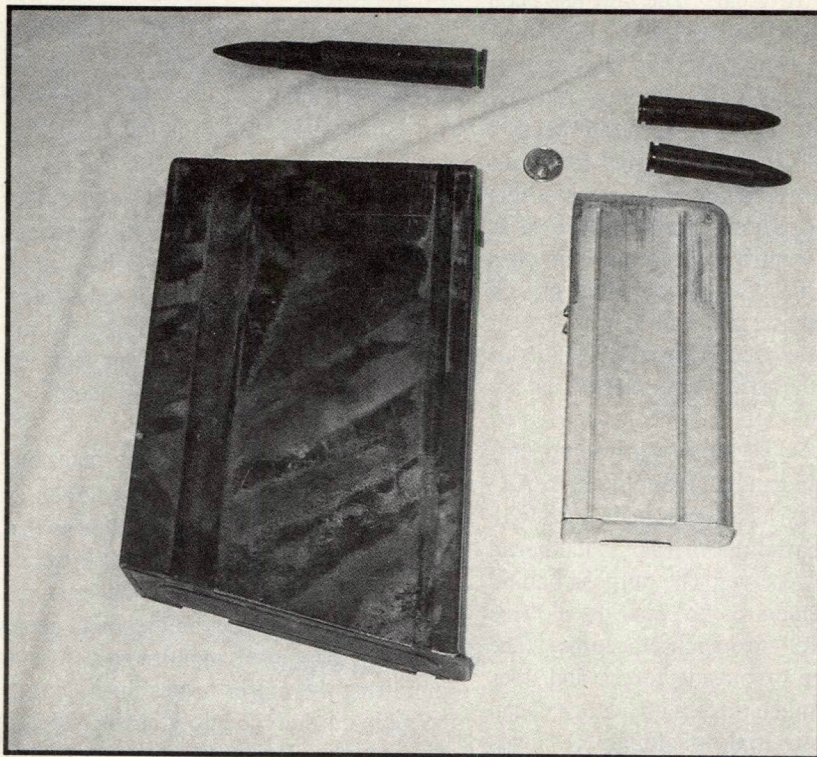
**A** WHAT?!? (frantically rustling papers and flipping through books...) No. Uh, Woody, you got any pictures of that bolt? In a military manual? Wait, wasn't that an inert round? No, I do remember seeing a loaded brass case with a plastic bullet in it...but, I swear that was an M-3 bolt. Hold on, yes, I'm positive that was an M-3 bolt. Uh.... has anyone got any info on that bolt



Woody's talking about? I KNOW that "Mystery Photo" was an M-3 bolt. But, if you have any pictures.....

Here's a new "Mystery Photo" for all of you RKI's out there.

chrome-lined blanks?  
-Catalogs, price lists.  
-9mm/.45 conversion kits for CAR-15:  
What is this and how good is it?  
-Does Dan want an OZ M60 maga-



February mystery photo.

**Q** If you get any information on AR-10 parts, I would appreciate hearing about it. Compliments on a great column and magazine! Thanks.

Brian C.

**A** See the following letters.

**Q** As is usual when one sets out for the U.S.A., a lot of friends ask for favors. It was expected that I would meet you and ask a few questions on behalf of a friend back in Australia. For various reasons and a basic misunderstanding on my part, we didn't meet this time around. I have forwarded to you his list of questions (obviously an AR-10 fan). He also makes the offer of an "OZ M60 magazine" if you want one.

Points of Interest for my friend Peter:

- Are there any fellow AR-10 enthusiasts over there?
- Machinist drawing/blueprints of firearm receivers & parts?
- Sources of AR-10 parts & accessories
- Any one know where to contact Louis T. Carrabello (AR-10 fan, Ed. of 'The AR-10'er')?
- Does anyone make chambered and

zine?

Bob M.  
Australia

**A** Bob, you thought I was in Arkansas, right? I'm not—people just write to me there at *MGN* headquarters.

As for your questions, there most certainly are AR-10 enthusiasts here. I invite them to write in and expose their subculture to the light so that the rest of us will know where to join. The next letter answers your parts questions, but the Rafficians will have to write in with Mr. Carabello's contact point. The 9mm and 45 kits for the CAR-15 are working units and are available from *MGN* advertisers. I suggest that you contact them for more information and export arrangements if Slick Willie (a term of endearment we Americans use for our "President") hasn't canceled exports yet.

Sometime in the next couple of years I will get to the land Down Under. I served with some Australians and was always amazed when I found that I had survived whatever horrible liquid concoctions they came up with, as well as some of the places they dragged me. Recently I met an

Australian machine gunner (at Knob Creek), who pulled a bottle out from his haversack and said; "Hey, Dan (pronounced Don), have a sip of this—it'll make you ten foot tall and bullet proof!" was not even slightly interested in gaining either height OR superpowers, especially at Knob Creek. "Hey guys—swing that Quad 50 over here—look at me—I'm bullet proof!" Fortunately, I no longer partake of the "libations," having stopped at around the same time as I was with that first crazy crew. (I am not going to say how long ago that was—every time I say it, people say I look too young—so I have to act like that is a compliment). I fully expect to survive this next meeting, as I will not ingest any of their indigenous wacky juice.

The letter I got by modem from *MGN* offered an OZ M60 magazine. I can't figure that out, so I guess an OZ M60 magazine sounds good, whatever that is, as long as it's not coming from Australia in a bottle. It might make a neat Mystery Photo.

**Q** Hey Dan—Jack L. Martinez, Inc. of California has advertised AR-10 and 180 parts. I have a copy of his list and it looks like he has a good selection. The AR-10 parts are Portuguese/NATO and Sudanese (Jack Martinez, 14700 Sunnybank Ave, Bakersfield, CA 93312.)

Thomas S.

**A** Thanks Tom. I just sent Jack a note on some parts that I have been looking for... This is Raffica at it's best, guys. I'll bet Mr. Martinez notes a marked increase in his sales in the next few weeks—tell him you got his name in Raffica....

We also received a response from Sam Pikula. He specializes in AR-10 parts. You can contact Sam at (602) 945-8101.

**Q** I thoroughly enjoy your writings for *Machine Gun News*, and hope that you can educate me further. I am considering the purchase of an MG-34 and am concerned about the fact that most of the available 8mm ammunition is corrosive. What parts of the gun will be exposed to corrosive salts from the ammo other than the chamber and bore?

I presently use a table-top parts washer filled with mineral spirits and motor oil. Is this an adequate solvent for corrosive fouling? What is your clean-up routine for corrosive ammo, and what solvent do you use? Can you safely delay complete cleaning after corrosive ammo (for a day or two) by spraying the gun with an aerosol



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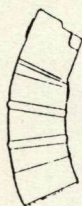
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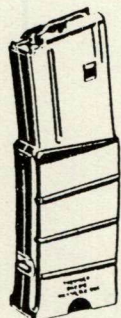
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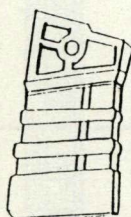
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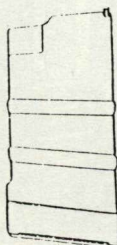
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"gun scrubber" immediately after firing at the range?

Your answers to these questions either in *Machine Gun News* or directly via a letter or telephone call would be greatly appreciated.

Lelan W.

**A** It is important to combat corrosion from the ammunition immediately. You must neutralize the acids from the primers—it is the mercuric chloride (mercury and nitric acid) that causes the problems—when the residue becomes moist, it forms nitric or sulfuric acid (depends on actual primer composition) and "eats" the metal. You need to neutralize the acid. How do you neutralize an acid? Use a base: baking soda, soap and water, old military bore cleaner. There are new anticorrosive cleaning agents available, but that is what they do—neutralize. There is nothing in your parts cleaner solution to do that, so, even after cleaning you are still at risk! Get some hot, soapy water and go at it. Then thoroughly dry and oil it.

Almost all of the parts on your MG-34 will get propellant gasses on them. Other than the bore and chamber, get the whole barrel, the booster and cone, the bolt, and the inside of the receiver, as well as the trigger components. I only shoot corrosive ammo out of post-86 dealer samples and 1919-A4's that I know I can clean right away.

**Q** With the change in Washington State laws, members of the National Guard can no longer transfer machine guns into the state I have moved into the area of DD's.

I am currently firing an M2 60mm mortar with your loading data. At this time I am transferring an Italian Cannone Anticarro e d'accompagnamento 47/32 into my possession. I understand that cases can be made from U.S. 37mm brass. I need to know the length to cut them too. Also projectile dimension and loading data.

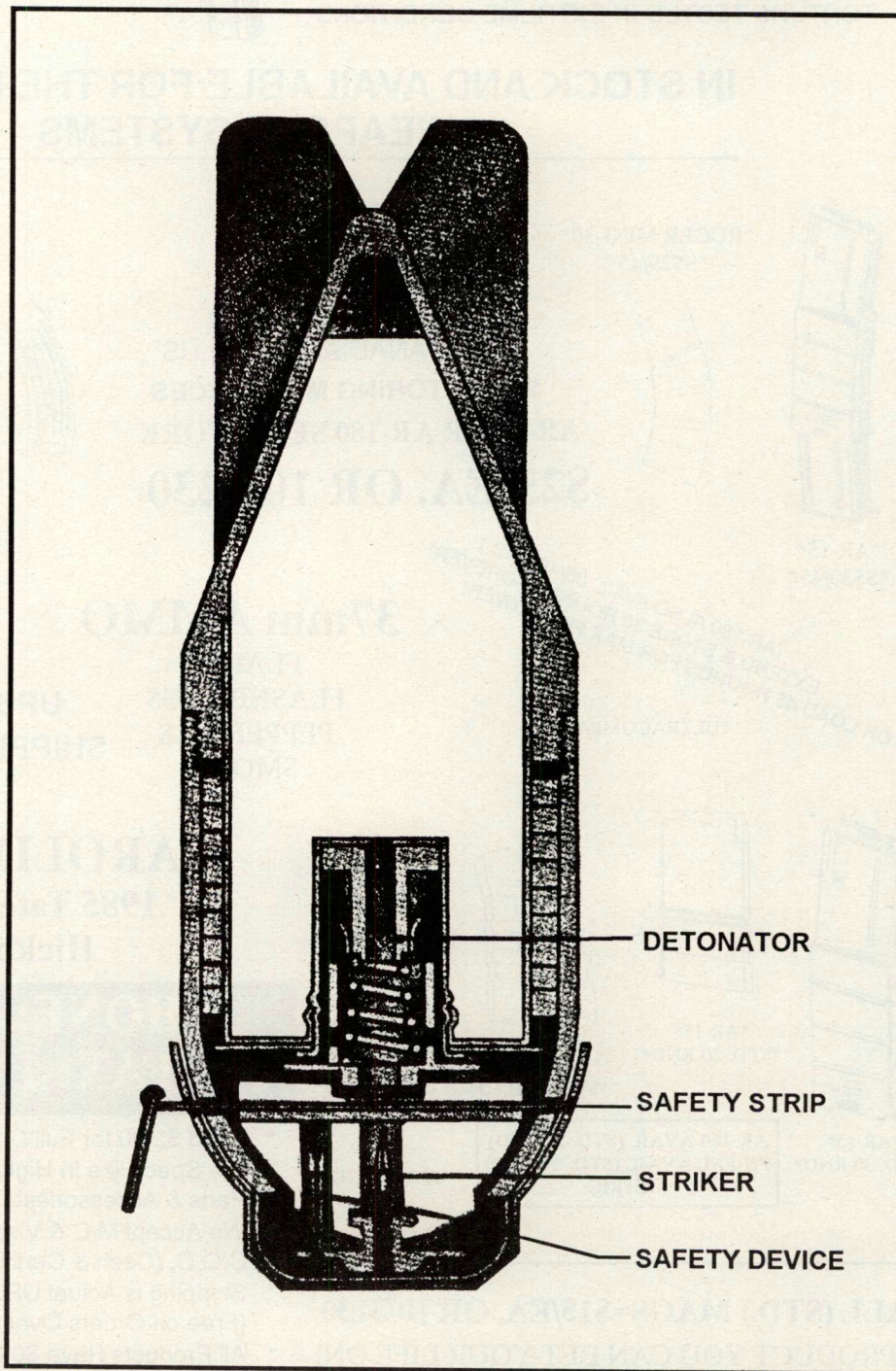
Thank you for your time and the excellent magazine.

Detlef J.

**A** I am not very familiar with the Italian mortars. So, I refer this to the Rafficarians out there for information on this mortar. I can tell you that the 47/32 is in 47mm, and is sometimes referred to as the M1935, with a caliber notation of 45mm. All versions of this mortar are on the Curio and Relics list as NFA items. I have taken a drawing of a round from the U.S. military

guide on Italian munitions and included it here for your information on outer shape. I don't think its imprudent here to include the warning that you should only manufacture inert projectiles for a mortar, unless you have the appropriate Type 10 FFL, Manufacturer of Destructive Devices and Ammunition for Ammunition for DD's, as well as the Type 20 FFL, Manufacturer of High Explosives, and any State or local licenses. Plus—the knowledge to make a sealed unit so you don't blow yourself up in the process—with a mortar you have a charge of explosive sit-

ting in a metal container in the middle of pressurized burning propellant. A most unpleasant concoction for the individual who doesn't understand the word "sealed." I suggest that enthusiasts stick with "lawn darts" with their mortars. I once heard that telltale "Whoosh-whoosh-whoosh" at a shoot one time, as an 81mm homemade HE round short-rounded and landed in front of the line. The guys with me all knew that sound and we hit the dirt. Fortunately, no one was hurt. The guy who was firing it knows far more than I do about the subject, and he still had an acci-



M1935 Mortar round.



# 37mm AMMO

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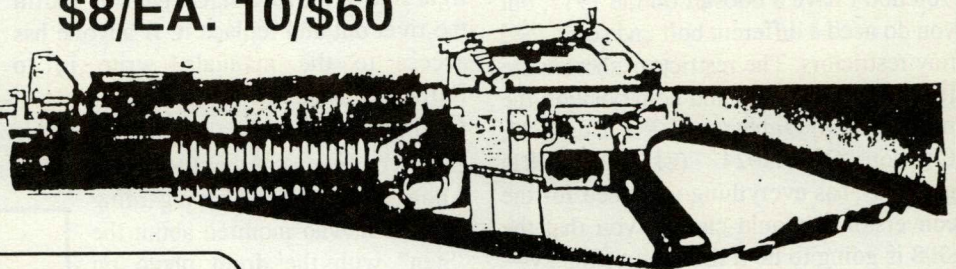


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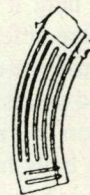
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dent. Make inert rounds.

**Q** I would like to hear some comments on the .308 conversion for the BMG 1917 and 1919 A4 series, particularly the differences between the .30-06 links, and why the .30-06 links do not work well when matched with .308 ammo. Any sources for a 1917 BMG .308 barrel? Does the muzzle booster need to be addressed on the 1917 .308 conversion? Or does the lighter barrel (compared with 1919A4) nullify this requirement?

Dan, don't be too hasty in stepping down from the soapbox when oratorical urges strike. Good publication that *MGN*.  
Tom F.

**A** Raffica has gone through the 1919A4 conversion to .308 a couple of times, so I'll touch on the 1917. The barrel external configurations are the same on the .308 and the .30-06, so that is not a problem. You don't have a booster on the 1917, but you do need a different bolt and some feed tray restrictors. The restrictors shorten the feed area to the .308 and help position the round. Ohio Ordnance (PO Box 687, Chardon, OH 44024 (216) 285-3481) generally has everything you need for the conversion. I would caution you that the .308 is going to be a little more finicky—you should polish all surfaces that are motion oriented and try the action for any "sticking", then hunt it down and polish again. The links are different between .308 and .30-06 because the cases have different diameters and tapers. Keeping it simple, they don't fit right. You should use cloth belts in your 17 anyway, unless you have a chrome trunion to take the wear. And—thanks for the vote of confidence.

**Q** I need some advice about the Sterling SMG. My first question concerns removing the selector from the trigger group. I have no trouble removing the trigger or sear cradle by simply pushing the pins out with a cartridge but the selector is a different story. It won't budge. Am I doing something wrong or is the selector permanently attached to the trigger group?

Second, can the "barrel bearing" be unscrewed from the barrel jacket or is it silver brazed in place? If it can be unscrewed, did Sterling make a special armorer's wrench for this job?

Thirdly, how can I remove the L-shaped aperture sight and then reinstall it?

Lastly, where can I get original or Xerox copies of the owner and technical manual for this gun?

JR

**A** First let's be precise about which firearm we are referring to. I will assume the MK 4 is under discussion. Your selector switch is part of the trigger group. After you remove the bolt, turn the trigger group retaining pin until it is pointed at "free" on the right hand side of the pistol grip. Now pull the trigger group out to the rear and swing it down to the front. The assembly should come out complete.

The barrel bearing is soldered in place. The rear sight on the MK 4 has been installed by internally compressing a rivet to hold it in place, as opposed to the lever that is on the MK 3 (use a pin punch on the right side of the MK 3). On the MK 4, drill the rivet out and replace it. If anyone has access to the manuals, write in to Raffica—I need one myself!

**Q** Great article on the Stechkin—always enjoy your contribution. Please continue!! Allow me to correct you regarding the fellow who inquired about the "Sten" with the drum photo on page 33 of the Sept. *MGN*. As you correctly stated, it was in fact a Gustav/Port Said SMG—BUT—was not altered to accept the PPSH41 drum. Rather, the drum

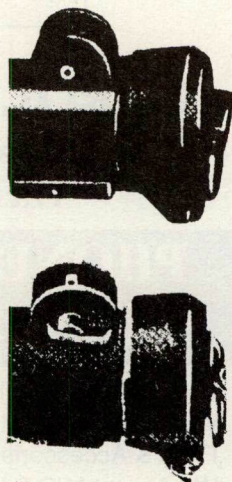
was modified for fit and use in a stock Gustav/Port Said. Slick! Works great. I have one of these drums myself. The fellow who does the mods is located in my state—Indiana. I've seen his ads in previous issues of *MGN*—biz name is SIBAR CO.

N.B.

**A** Good point. I missed on that one; it's the drum that was modified.

**Q** I greatly appreciate your time and effort and input in the *Machine Gun News* and the information that you are willing to share with other shooters. One of the Class III weapons, in my collection, is one of the dreaded shorty M16s with a registered auto sear. And although I greatly appreciate your comments, information and the article from John Norrell on fixing the shorty problem, I myself have never had a problem with the seared shorty especially after raising and shaping a small amount of material on the back of the auto sear to fill in the "rounded gap" in the back of the receiver. The unit has functioned reliably with all types and sizes of barrels in length in addition to adding an Olympic Arms

Sterling MK 4 rear sight



Sterling MK 3 rear sight



Sterling MK 4 trigger group



Trigger Group Retaining Pin

Diagrams courtesy of World's Submachine Guns, Thomas Nelson.



9mm upper to the unit. The only difficulty is that it does not function reliably with the Atchinson 22 conversion on full auto.

I have been told some time ago, both personally from a call to Colt and from several machine gun dealers, that the Colt 9mm semiauto could not be utilized with a registered auto sear. Therefore I did purchase the Olympic Arms 9mm upper. However having read the article in the March 1993 issue of *Machine Gun News*, I sold my Olympic upper, went and purchased a green label Colt AR, had John Norrell redo the cosmetics on it and add one of the DEA suppressors to it.

Now to my dilemma. The auto sear as stated previously is not registered to any receiver, however it is registered by the BATF in .223 caliber. Additionally, I realized that even though the suppressor on the 9mm Colt is registered, when the upper receiver is on the gun without the auto sear in it, there is a short barreled rifle. Therefore the upper receiver can only be on the firearm with the auto sear in the gun. If that auto sear is registered in only .223 is the gun legal anyway or does it have to be re-registered additionally in 9mm to be utilized in the submachine gun? I enjoy shooting both the M16 and the Colt 9mm and do not necessarily want to have to "marry" the registered sear to one gun.

Additional comment on the conversion from the semiauto 9mm to the full-auto 9mm, we ran into a terrible vibration problem through the trigger both on the semiauto and full-auto functioning. To such extent that even half a dozen shots through the gun would become extremely painful to the trigger finger. Even John Norrell was unable to properly solve the problem. He felt that the condition was due to the trigger and the lack of mill spec parts. I pulled parts out of my M16, and bought many other parts from different manufacturers—still the same problem. Finally I accidentally diagnosed the problem by comparing the original semiauto Colt 9mm hammer to the standard M16 hammer and noticed that the semiauto hammer had a notch in the hammer. I carefully cut an identical notch into a M16 hammer in order to not lose the temper and the gun has functioned with vibration. Maybe this will help others who have had conversions.

My last question is help, help! Where can I get additional parts for this Colt

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100 rds	\$3.00 ea.	\$	300.00	5,000	.07¢ each	\$	350.00
250 rds	\$2.75 ea.	\$	687.50	10,000	.06¢ each	\$	600.00
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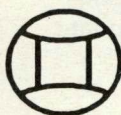
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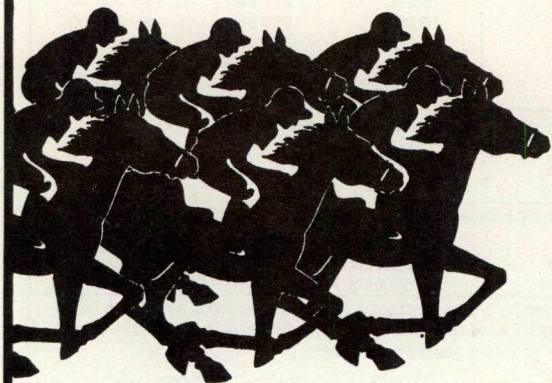
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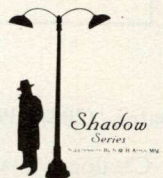


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9mm submachine gun, ie., firing pins, etc. I have called dealers, manufacturers, and asked at Knob Creek; no one has any information. Can you help?

Dave H.

**A** Your upper is legal as long as the barrel is part of the suppressor assembly. It is not necessary to include the 9mm caliber on your form, but you may add it for piece of mind. Send a letter to NFA Branch explaining the added caliber and barrel length, and send a copy of your form with it, noting in section H of the information section the added caliber and barrel length.

This should cover you. The Atchisson kit is a fine innovation, but Ciener only guarantees it in factory Colt guns for full auto. Get the stone and the rouge out and start smoothing edges—you'll know where by the wear spots. Neat solution to the trigger vibration. I have felt that in some M16's myself, and I will be sure to try that in the next one I run into. 9mm parts? Not me. I haven't got a clue. We'll send this one out to the Rafficarians and I'm sure they'll come up with something.

**Q** Your magazine's the best! Living in California, all I can do is read about full-auto guns and thanks to politicians from here the rest of the nation suffers from even more oppressive laws, most notably the recent high-capacity magazine ban written by our recently reelected (was she?) liberal Diane Fienstein, which brings me to my question: Will you list or perhaps do an article on magazines that will interchange with little or no modifications between various makes of full-auto /semiauto guns and maybe even high capacity pistols? I got to thinking about this looking at my AR15 and Mini 14 and my AKS and Mini 30. Also the question in your Dec. 94 column about Uzi and Colt subgun mags interchanging got me wondering.

Stuck in California

**A** A few examples: MPL to a MAC10 9mm, Sten to Sterling, Lanchester to Sten or Sterling, Hotchkiss Universal to MP-40, MG-13 to Jap 99, M3 A1 greasegun to MAC10, M16 to AR-180, S&W 422 to Voere. Come on guys, write in with your lists and hints!

Questions to:

Dan Shea, c/o MGN

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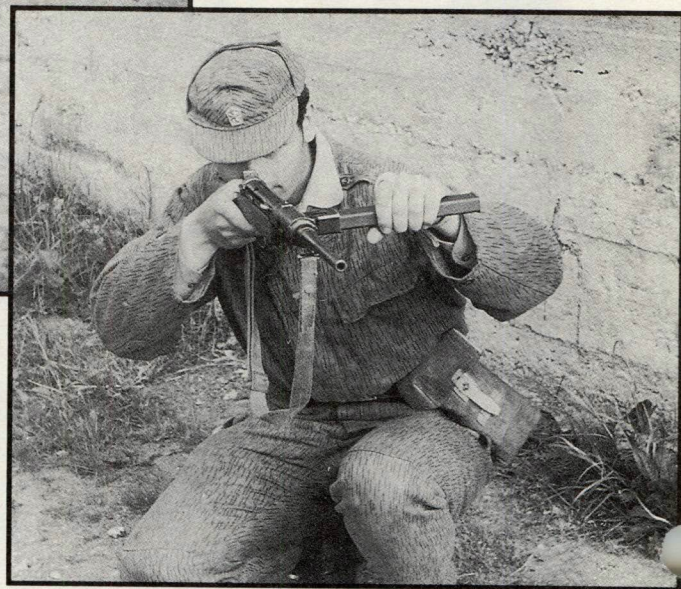


# CZ247 Submachine Gun

by ING. JIRI FENCL



The CZ247's magazine is able to turn to both vertical and horizontal positions as well as firing from both of them. It was also possible to fire from any set interposition.



On April 1, 1946, the Czechoslovak Army headquarters issued guidelines for the post-war development of new firearms for the Czechoslovak Army, which included—among others—requirements for a submachine gun. The authors of the guidelines were the Infantry Outfit Committee members under the leadership of General Slechta and Colonel Zelinka. The new submachine gun was to be developed both in 9mm Parabellum and in 7.62mm Tokarev. The required rate of fire was 900 rounds per minute. The chief requirement was a large capacity magazine of 72 to 80 rounds located so as not to hamper firing and carrying of the weapon.

In March 1946, the representatives of

the Brno Weapon Factory presented the first new submachine gun design to the Military Technical Institute. The design by Vaclav Holec, the ZB47, drew attention because of its unconventional shape and because many of the parts were made from stamped steel. The weapon was based on the unlocked blowback, or dynamic breech, recoil principle. What made it unusual was its triangular shape and the location of its high capacity (72 round) magazine. The magazine is located at an angle just below the trigger guard with the

bullet end of the cartridges facing upward. This placement required the use of a rotary catch feeding system. (For more information on the ZB47 see MGN June 92.)

The design team of the Koutsky brothers was also developing a submachine gun, the ZK466, in Prague. It had a wire stock and most of the parts

were made from stamped steel. It had a direct box magazine, which could be folded forward under the barrel when not in use.

At this same time Frantisek Myska redesigned his pre-war submachine gun, the Model 38, in 9mm Parabellum at the Strakonice Czech Weapon Factory. This new design was designated the CZ47 and later CZ147.

Lance Corporal Jaroslav Holecck was sent by the Ministry of Defense and a member of the Armament Committee, Captain Frantisek Hrubes, to CZ Strakonice. He brought with him design drawings of two submachine guns and a machine gun to work on in detail. He was also to prepare tests for his submachine gun. This weapon had the segmented breech, return spring in the rear grip and a magazine for 72 cartridges, located in the groove of the butt top edge. This prototype was marked in the factory as H1.

The manufacture of two slightly different prototypes and their testing together with other models was followed by a period of indecisiveness. It was obvious that

## Specifications of the CZ247

Caliber	9mm
Weapon length	31 1/4 inch
Barrel length	7 7/8 inch
Number of grooves in the barrel	6
Direction of groove lead	right
Line of sight length	8 1/2 inch
Weapon weight without magazine	6 3/8 lbs
Magazine weight	9 7/8 oz

*Sources: Sada-Czechoslovak Hand Fire Arms and Machine Guns, firm literature, information from J. Holecck.*



the Ministry of National Defense had no clear technical requirements for the new weapon design. The Armament Committee required more and more new changes and development work was extended. An example was the changing opinion concerning the rate of fire: the original rate of fire of 900 rounds per minute was gradually reduced to 300-500 rounds per minute, which required many design changes. This lower rate of fire was better suited for the ZB47 and ZK466 submachine guns but was not suitable for the segmented breech of the H1 submachine gun.

Finally, Major Frantisek Hrubes from the Infantry Armament Committee, started preparing the basic guidelines for the new submachine gun and settled on the following requirements:

- rate of fire 450
- possibility of firing from the prone position so that a marksman would not be an easy target
- weapon weight of up to 11 pounds
- quick magazine loading
- automatic safety of the locked bolt to prevent accidental discharge

It is evident that there was no requirement for a large capacity magazine located in the buttstock. Neither the ZB46 or the one with the segmented breech were suitable for the new requirements. Therefore, Jaroslav Holecek designed an interstage model with parallel blowback action on which he tested some original design elements. He did this in addition to the program work of his contract. A feature of the weapon was that the whole receiver including the bolt mechanism and magazine well was fixed in the buttstock by means of a sleeve, which enabled the turning of this assembly so that the magazine could take a number of positions ranging from the vertical to the horizontal one (a turn of 90 degrees).

Submachine guns known so far had the magazines positioned permanently in either the horizontal or vertical position. If the magazine was in the horizontal position (e.g. ZK282 or STEN), the marksman could lie close to the ground and be less of a target. But when the weapon was carried, the horizontal magazine was an obstruction and had to be taken out. This left the magazine well open to accumulate dirt and debris. The vertical magazine was the most common magazine position with submachine guns of WWII because it was comfortable for carrying and holding the weapon during firing. However, the marks-

man could not use the weapon in a prone position.

This new design by Jaroslav Holecek enabled the magazine to turn to both vertical and horizontal positions as well as firing from both of them. It was also possible to fire from any set interposition. Both of the extreme positions were locked by a catch and it was possible to change them even during firing. On September 5, 1947, J. Holecek applied for the patent of his original design. It has been patented with Czechoslovak patent letter No. 80 669 since August 15, 1950.

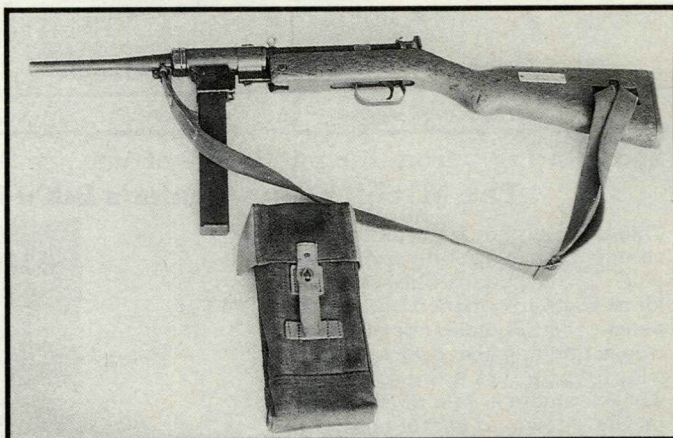
J. Holecek used a "double trigger" (his own term) in the design of this submachine gun marked as CZ247 or Model 47/II. The same trigger was later used for his Model 23 and 25 submachine guns. The idea of the "double trigger" came to the inventor when Major Hrubes, who participated in the prototype firing test, asked for the possibility of both single and full auto fire without switching the fire mode. The "double trigger" mechanism has only one trigger, but two kinds of pressure can be applied. If the applied pressure is light—the weapon fires in single shots, with a complete pull of the trigger—the weapon fires full auto. This design was to prevent errors by those soldiers who fired in single shots when they were supposed to fire in full auto and vice versa.

Frantisek Myska designed the safety mechanism for the CZ247, which automatically prevented the bolt from traveling when it stopped in the front position. If the weapon was dropped with the buttstock hitting the ground first, the bolt could not travel backwards which prevented accidental discharge. The only shortcoming of this safety was that it could not prevent accidental cocking if the bolt-retracting handle caught on a tree branch, clothing or equipment.

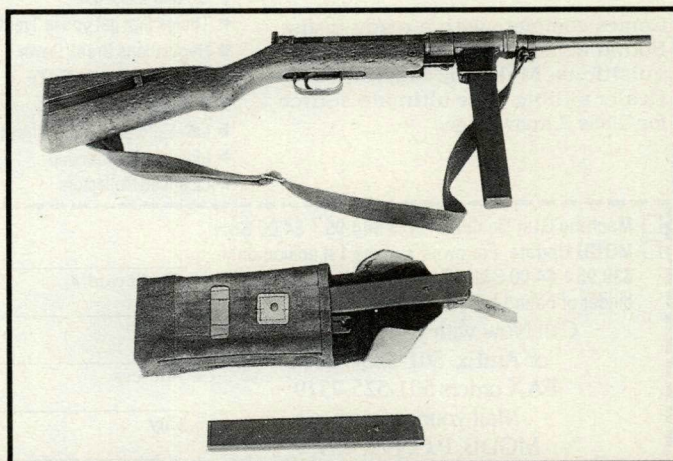
Despite this, the safety increased the security of the marksman.

The built-in magazine loading device located on the right-hand side of the buttstock was designed by the foreman of the prototype workshop Vaclav Zibar, enabling quick loading. This device was brand new in arms technology and not only aroused the interest of the Ministry of National Defense but made them abandon the concept of large capacity magazines for submachine guns.

The CZ247 submachine gun is a classic submachine gun with a wooden buttstock and blowback action. Its action works on the recoil principle. The receiver is made from a steel tube. The magazine well is located in the front part of the weapon, the barrel (7 7/8 inch) is fixed onto the receiver with a cap nut and the barrel has a gradual taper towards the front. The clip that holds the sling to the front can be rotated around the barrel. In the area behind the magazine well there is a cylindrical sleeve, which slides onto the receiver. It has a bar in its bottom part fixed in the forearm with



A sling clip is on the left-hand side. The box magazine holds 32 cartridges of 9mm Parabellum in two rows; the magazine lips are for one row.



There is a loading device located on the right-hand side of the buttstock.



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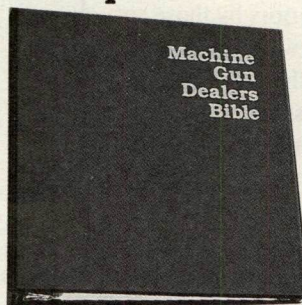
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a joint. The whole receiver with the barrel and the magazine can be turned in the sleeve from the vertical position of the receiver to the horizontal one. The front sight, adjustable sideways, is located in the dovetail on the outer sleeve part, which does not change its position in relation to the buttstock.

The receiver has an ejection port above the magazine well. In the top back part, there is a recess for the receiver rod and in the bottom part there is a recess for the nose of the sear, which must function even while the receiver is being turned. The back part of the receiver is covered by a cap.

The heavy cylindrical bolt moves in the receiver with two guide collars, spring extractor and bolt retracting handle, which is gradually shaped into the automatic safety handle. The front part of the bolt is lighter and forms a loading ramp which travels along the magazine flaps during loading; its diameter is reduced to a pin of nearly the same diameter as the barrel cartridge chamber. The return spring with the guide rod is shifted in the receiver cavity from the back. The guide rod has a lever used for pressing the return spring when the weapon is dismantled. The back part of the lever forms the arresting pin holding the back receiver part in the rear sight bottom, which is firmly fixed in the butt.

The rear sight has two blades with V-shaped cuts. The first cut is in the blade forming the rear sight bottom and is unmovable. The other blade can be moved horizontally in the guideway of the first blade and can be locked in position by a spring catch. The rear sight is adjustable for firing at 100 and 200m.

Disassembly is as follows:

1. The magazine is taken out and the weapon is cleared.
2. The handle of the guide rod return spring is pressed forward in the receiver groove until the guide rod arresting pin comes out of the hole in the rear sight holder.
3. The receiver section with the bolt is tipped out of the butt upwards.
4. The receiver cap is turned and the cap is removed.
5. The guide rod with return spring and bolt are taken off the receiver.

This disassembles the weapon into five subgroups including the magazine. No further disassembly is necessary for field stripping. The weapon is assembled in the same way but with the reverse sequence of

Machine Gun News - February 1995



the single steps.

The CZ247 successfully passed function and wear tests, and the Ministry of Defense considered the weapon for production for the Czechoslovak Army. The general staff ordered manufacture of a prototype in 7.62mm Soviet in addition to the 9mm so that they could compare the two before testing them at military units. The Czech Weapon Factory manufactured two CZ347s by this order.

Jaroslav Holecek finished his military service in the meantime and became a civil employee of the Czech Weapon Factory. He was not satisfied with the CZ247 submachine gun although it was quite successful. At that time a similar weapon, but shorter, for paratroopers, drivers and commanding officers was being designed. It was supposed to have a folding stock. The concept of the CZ247 was not suited for this purpose and therefore the inventor planned a new universal weapon with the magazine in the pistol grip and the bolt wrapping the barrel. He based this new submachine gun on his second original design the CZ47. This new weapon had the double trigger, Zibar's loading device and the automatic safety, which was redesigned so that it could lock the bolt in the front position and prevent accidental cocking when the bolt-retracting handle caught on a tree branch or other object. He applied for a patent for this safety but withdrew his application after a deal with the factory. The new weapons were designated as the Model 23 and Model 25. They were without competition because they were well balanced, when the bolt was in the open or closed position the ejection ports remained closed, and they were extremely short. After a brief testing period, they were ready for mass manufacture and then they were issued to the army.

The Ministry of Defense allowed the export of the CZ247 submachine gun. It was manufactured in a series of about 7000 pieces for Pakistan. Later, the contract with Pakistan was broken. Egypt and Israel were interested in the weapon but shortly before the weapons were sent to Egypt, shipment was stopped because of the war between Egypt and Israel. In the end, the weapons were used to outfit the Peoples Militia. It proved impossible to find out where these weapons were sold after the Peoples Militia were rearmed with Model 23 and 25 submachine guns.

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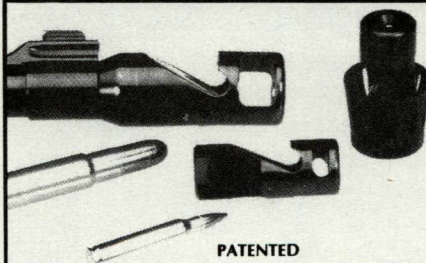


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# How to:

# Fabricate Tokarev 7.62x25 Cartridges

by **FRANK IANNAMICO**

A few years back the surplus supply of the 7.62x25 Tokarev cartridges was abundant, then suddenly it dried up. The Chinese supply then opened, and again the rounds were cheap and plentiful. Unfortunately for the owners of firearms that thrive on these bullets, history has repeated itself.

The 7.62x25 Tokarev round is very similar to the old .30 Mauser cartridge and the two are generally interchangeable. However, some Czechoslovakian 7.62x25 rounds are very hot. I've chronographed some of these Czech loads, and they clocked at 1550 fps vs. the standard velocity Tokarevs 1390 fps with an 86 grain slug. These rounds were designed for use in the robust, CZ-52 pistol that utilizes a roller-locking system similar to H&K weapons. I would not recommend these hot rounds in any other weapon. Another precaution is that a lot of surplus 7.62 ammo is corrosive. Know what you are shooting! When in doubt, give it the "nail test." (Refer to previous issues of *MGN* for details.)

There are many submachine guns that use the Tokarev cartridge. Most are communist block weapons, for example, the Russian PPSH 41 and Chinese Type 50. There are many more handguns that use the Tokarev, or the interchangeable .30 Mauser rounds: the Model 712 full-auto Mauser Broomhandle pistol, better known as the "Schnellfeuer," the Russian and Chinese variant Tokarev pistols and of course the CZ-52 to name a few.

With all the various firearms out there that use this cartridge, and the fact the supply of surplus ammo is drying up, I'm sure there would be some interest on how to make your own 7.62x25 rounds.

Unfortunately, I do not own a subgun in this caliber. I do own several handguns chambered for 7.62x25. I do not like to buy anything I can reload. So I decided to make my own cartridges. They work in all my handguns and I see no reason they would not work in any subgun so chambered.

The basis for making the 7.62x25 cases are the plentiful and cheap .223 AKA: the 5.56 NATO rounds. I try to use my old cases that have split necks and that are no longer useful for their intended purpose. This is called recycling.

I start by cutting the overall length of the case to approximately one inch. A pipe or tubing cutter works well for this job. The next step requires a set of standard .30 Mauser dies. These dies are available from RCBS and Lee, but are not available with a carbide sizer so, the cases must be lubed before sizing. I then size the case in a single stage press. After forming the bottle-necked case, the next step is to size inside the neck using a .30 caliber ID neck sizer. Any .30 caliber ID neck sizer will work. On a Dillon press, I use a .30 carbine powder funnel set up on my press to accomplish this step. Now you will need to trim the overall case length to .980", then deburr the case neck. Next you will need to ream inside the neck with a .308 reamer available from Forster. I do this job on my drill press. The reason for the reaming is that the case is too thick in this area. After reaming, the case will need to be resized again to bring the neck outside diameter back to spec. Clean the cases in a brass tumbler to remove the excess lube. The cases are ready to be loaded. Regular small pistol primers are used. I personally use Winchester brand small pistol primers.





Typical pistols that utilize the 7.62x25 round. From top: Mauser Broomhandle, Chinese Tokarev, Czechoslovakian CZ-52.

For a powder, I use WC 231 in my loads; **BE CAREFUL WHEN WORKING UP YOUR LOADS.** These following loads (see chart below) worked fine in my particular guns but may not in yours. There are too many variables to be certain. Start with a minimum powder charge and work up slowly. Know how to identify and watch for signs of excessive pressure. Keep in mind the age of the firearm you are working with. Be extra careful if you are making these rounds for guns originally intended for the .30 Mauser round. Use only minimum loads in any gun originally intended for the .30 Mauser round. All loads were using the 110 grain M1 carbine bullet.

Unfortunately, there are no cheap bulk projectiles such as needed for loading the Tokarev round. An excellent alternative is the .30 carbine 110 grain slug. Although heavier than the original 86-grain bullet, they work fine. The .30 carbine bullet is available in several configurations: full metal jacket, soft nose jacketed, and lead.

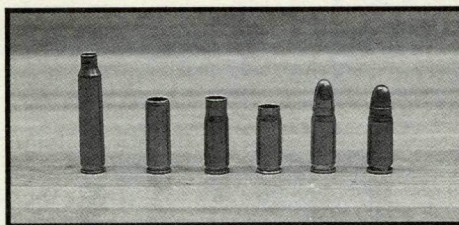
If you do not want to use the heavier 110 grain bullet, there is a alternative.

Several reloading companies manufacture molds for casting the lighter bullets in .32 caliber, or you can purchase the .32 bullets already cast, and by using a cast bullet sizer it is possible to resize the .32 bullets to .309" or whatever diameter you prefer. A lot of the firearms that use this cartridge have varying bore diameters, mine however all accept the .309" cast slugs. The lighter bullet is the way to go if you're looking for velocity and performance similar to original loads.

I now reload the cases on my Dillon 550

reloading press. Since the cases are already sized, no sizing die is needed. In its place, on the first die station, I use a decapping die. This die will push out any tumbling media that may still be inside the case flash hole from the cleaning step. Without the resistance of the sizing die, the reloading process is a breeze. Seat the bullet so the overall length is a maximum of 1.315". I use a slight crimp on the case as a last step.

I have been using these homemade 7.62x25 cases for several years without any problems. Other than due to the heavier projectile (110 gr vs 86 gr), the sights



Metamorphose of the 7.62x25. From left: .223 case, case trimmed to one inch, case sized in Mauser die, case trimmed to correct size, finished cartridge with 115 grain bullet, original 7.62x25 cartridge with 86 grain bullet.



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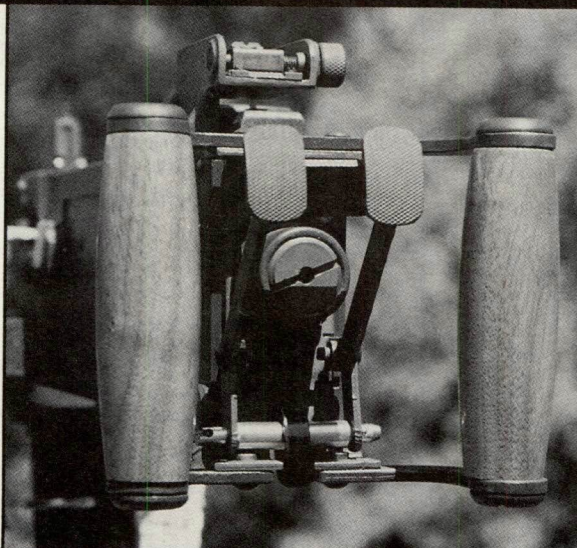
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Reaming out the neck of the newly formed case in a drill press.

are off a bit. As long as you have the case centered when performing the reaming step, and the neck thickness is uniform. You can reload them repeatedly without any necks splitting. I have never had to trim any of these cases back to the correct length either.

I hope by reading this article you will have found new uses for your split .22 cases and a source of 7.62x25 ammo for your guns that shoot it. Just remember to BE CAREFUL. As a closing I can suggest a couple of ways to prevent future shortages of ammo. Join the NRA, and get out and vote. (Make sure you are registered at least 30 days prior to the election or you will be ineligible to vote.) Instead of complaining to your buddies about the current bans and pending legislation, complain to your elected representatives. If he or she won't listen, vote them out of office. NO ONE can afford to be idle and let the other guy do it any more; those days are gone forever. MGN

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Why? Because I'm an independent thinking curmudgeon who has never totally endorsed the recommendations of the nominating committee, even when I served on said committee three years ago. I'm endorsing a number of individuals who are running for the Board by petition simply because I disagree with the nominating committee's recommendations.

I've been on the Board for some 10 years and have worked with and personally know most of the individuals I'm supporting. They are all eminent in their particular fields of expertise, have demonstrated the ability to best guide the NRA in these perilous times and most effectively promote what I consider to be the main objective of the NRA — to protect our Second Amendment rights. These still are perilous times. Though we won a magnificent victory on 8 November, we cannot rest on our laurels; we cannot expect the swine and charlatans who represent the anti-gun lobby to fold up their tents and crawl quietly back into the sewers.

If you are eligible to vote in the Board elections, you will receive a ballot in your copy of the *American Rifleman* or the *American Hunter*, which you should receive in the latter part of February. For further information on the individuals I'm supporting, consult the biographies in the ballot issue. In any case, if you are seriously interested in protecting your gun rights and the future effectiveness of the NRA, do yourself a favor and vote!

**I am endorsing the following individuals for the Board of Directors of the National Rifle Association:**

1. Lt. Col. Rex Applegate
2. Michael Baker
3. Daniel Bechtel
4. Michael Beko
5. David Boehm
6. Leland Bull
7. Sue Caplan
8. James Carlson
9. Warren Cheek
10. Ronin Colman
11. Robert Corbin
12. Sen. Larry Craig
13. Sandra Froman
14. Marion Hammer
15. Samuel Hillenburg
16. Cameron Hopkins
17. Russell Howard
18. Susan Howard
19. T.J. Johnston
20. Phillip Journey
21. Herbert Lanford
22. John Milius
23. Joe Nava
24. Richard Riley
25. Harold Schroeder
26. Glen Voorhees
27. Dave Workman

Lt. Col. Robert K. Brown, USAR (Ret.)  
Editor/Publisher, Soldier Of Fortune Magazine  
Member of the NRA Board of Directors

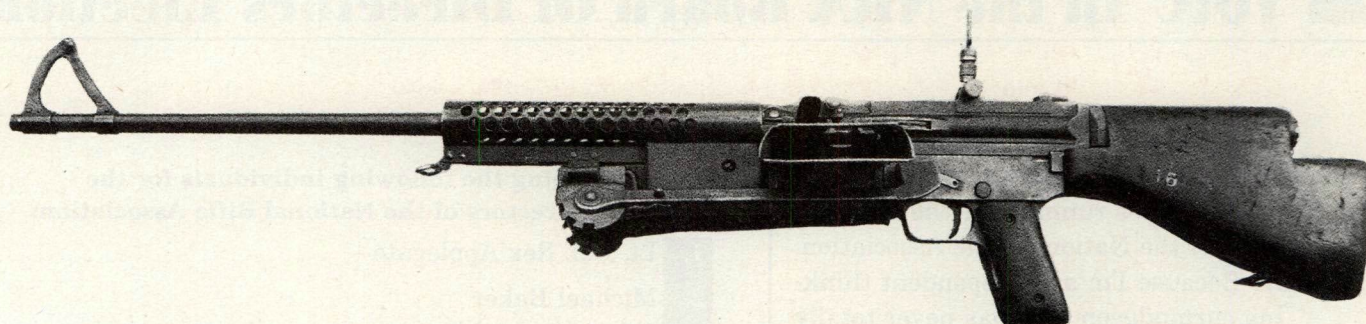
# VOTE!

# VOTE!

# VOTE!



# The Johnson Model 1941 Light Machine Gun



The Model 1941 Johnson light machine gun fires from a closed bolt in semiautomatic to maximize accuracy and from the open bolt on full auto to minimize heat build-up.

by **AL PAULSON AND NOEL NAPOLILLI**  
Photos by **POLLY WALTER**

The Johnson light machine gun was developed from Captain Melvin M. Johnson's semiautomatic rifle, which was originally designed for commercial sales in 1936. The light machine gun was developed in 1937 and refined in 1940. Produced as the Model 1941, the Johnson LMG introduced some interesting features.

It fired from a closed bolt in semiautomatic to maximize accuracy. And it fired from the open bolt on full auto to minimize heat build-up. The cyclic rate of fire could be adjusted from 300 to 900 rounds per minute. The barrel could be changed quickly. And the Johnson LMG used a straight-line stock to minimize recoil.

But the feature that resulted in sales to Uncle Sam—aside from the potential for speedy delivery when there was an acute shortage of weapons—was that the machine gun could be disassembled into a fairly compact package. This made it attractive for paratroopers, special forces, and the OSS.

The Johnson LMG contains five basic subassemblies: barrel group, bolt group, receiver group, magazine group, and butt-stock and hammer group. The LMG uses the same basic mechanism as Johnson's semiautomatic rifle, and many of the parts are interchangeable. The general characteristics of the Johnson Model 1941 light machine gun can be found in the accompanying table.

The unusual profile of the weapon when viewed from the side results from Johnson's desire to minimize climb during

full-auto fire, and to minimize vibration which can degrade accuracy. The straight-line stock, and the fact that all moving parts cycle along the axis of the bore, do actually reduce muzzle climb and apparent recoil. Nevertheless, recoil is significant in this 12.3 pound (5.6 kg) weapon since it was designed for the full-powered M1 round (commonly known as the .30-06). This recoil does adversely affect hit probability on full auto. Bipod placement can also affect the practical accuracy of a light machine gun.

The bipod is located as far back as it can go on the Johnson Model 1941. The advantage of this position is that the operator can rapidly traverse the weapon to engage quickly moving flanking targets. The liability of this bipod placement is that the weapon produces large group dispersion. When the rear bipod position is combined with the Johnson's light weight, the net result is that the Johnson Model 1941 LMG produces unacceptable hit probability.

The Browning Automatic Rifle exhibits the polar opposite bipod placement. The extreme forward position of the BAR bipod provides the smallest possible shot dispersion. But this bipod placement makes it very difficult to engage rapidly flanking targets. The bipod on the Bren Gun is located at the gas regulator. This intermediate position seems to provide the optimum compromise, since the Bren delivers tight enough group dispersion for excellent hit probability, while providing

an acceptable ability to engage flanking targets.

The unusual profile of the Model 1941 light machine gun when viewed from above comes from the bulky, single-column box magazine inserted into the magazine group on the left side of the receiver. The genesis of this arrangement followed a curious evolution. Johnson's early commercial semiautomatic rifles used a detachable magazine inspired by the one used in the Browning Automatic Rifle. A new, internal rotary magazine was incorporated into the semiautomatic rifle in 1940 for the military market.

The fixed rotary magazine used feed lips actually machined into the receiver. This eliminated the potential problem of bent feed lips commonly encountered on detachable box magazines of the day. The internal magazine was charged by five-round stripper clips from the right side of the receiver.

Johnson's Model 1941 light machine gun combined a detachable box magazine (which lacked feed lips) with the semiautomatic rifle's fixed rotary mechanism and feed lips machined into the receiver.

Johnson's detachable box magazine uses a flat leaf spring with a rounded hook to both capture the top cartridge in the magazine and to serve as the magazine-retaining catch. When the magazine is inserted into the magazine support guide on the left side of the receiver, the hook cams upward on a ramp and releases all the cartridges in the magazine. The spring then



engages shoulders on the ramp to lock the magazine in place until a long magazine lever (located atop the support guide) is actuated. Meanwhile, the magazine spring pushes the cartridges against a ramp which feeds the first cartridge as it rolls into the feed lips machined into the receiver.

While the detachable box magazine holds 20 rounds, the gun can be loaded with 25 rounds by charging with stripper clips through a loading gate on the right side of the receiver. Single rounds can be loaded too. This arrangement facilitates "tactical reloads" after a magazine has been partially emptied.

Since the detachable Johnson magazines did not depend upon precisely formed and aligned feed lips, they were simple to make and did not require tight tolerances and quality control. Johnson felt this was a major selling point of the system, especially in light of all the manufacturing and teething problems that had plagued the M1 Garand since it had been officially adopted by the U.S. Army in 1936. (Few had been delivered by the outbreak of war five years later.) While they were simple and relatively inexpensive, Johnson's detachable magazines could still be crunched and rendered unserviceable.

Ironically, these magazines proved to be a major liability of the Johnson LMG, rather than a major marketing tool. The side-mounted magazines were too long and threw off the balance of the gun. The Johnson light machine gun would have been much better received if it had employed the BAR-type magazine used in the commercial variant of the Johnson semiautomatic rifle. The real killer in terms of military acceptance was that both the Johnson rifle and light machine gun commonly experienced extractor failure similar to the problems experienced by the .30-06 variant of the Lewis Gun manufactured by Savage.

The trigger group contains a selector (which Johnson called a "change lever") and a grip safety. The selector on the right side of the gun provides semiautomatic, closed-bolt fire in the forward position. The selector provides full-auto, open-bolt fire in the rearward position. The trigger engages the sear during semiautomatic firing. But during full-auto fire, the trigger engages the bolt catch, sear and sear trip. When in the vertical position, the selector functions as a safety since it locks both the sear and bolt catch. Thus the weapon cannot fire, whether the bolt is in the open or

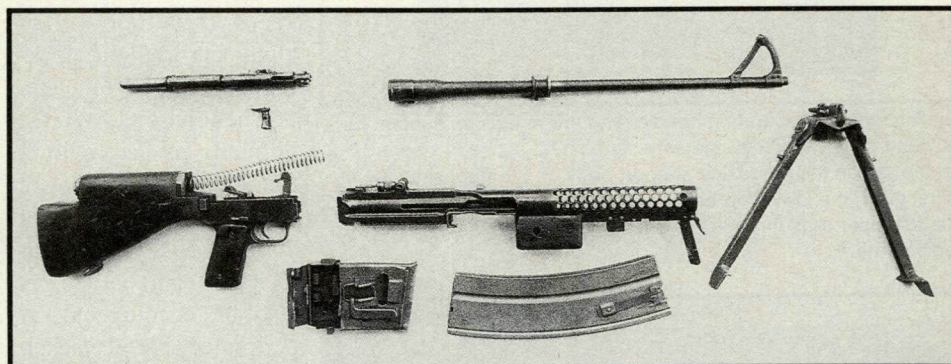
closed position. A grip safety on the front of the grip provides an additional margin of safety.

The Johnson light machine gun employs a short-recoil action. Upon firing, the barrel and bolt recoil together for about 0.13 inch (0.33 cm). The angular face of the operating cam (located at the rear of the bolt group) strikes a corresponding face in the receiver, causing the bolt to

rotate 20 degrees counterclockwise. This frees the bolt's eight locking lugs from the barrel-locking bushing. Net rearward barrel travel is about 0.44 inch (1.12 cm). Enough gas pressure remains when the unlocking sequence is complete to assist the rearward movement of the bolt assembly. Thus the Johnson's short-recoil design uses both recoil momentum and the remaining gas pressure in the chamber to



A top view of the Johnson Model 1941 shows the side-mounted, single-column magazine, which was too long and threw off the balance of the weapon.



The Johnson Model 1941 LMG field stripped.

## General Characteristics of the Johnson Model 1941 Light Machine Gun.

**CALIBER** .30 M1 or M2

**SYSTEM OF OPERATION** short recoil, selective fire

**CYCLIC RATE** adjustable from 300-900 rpm, normally set to 400-450 rpm

**WEIGHT WITHOUT MAGAZINE** 12.3 lb (5.6 kg)

**WEIGHT WITH EMPTY MAGAZINE** 13.2 lb (6.0 kg)

**WEIGHT WITH LOADED MAGAZINE** 14.7 lb (6.7 kg)

**FEED DEVICE** 20 round single-column box magazine

**CAPACITY OF FULLY LOADED GUN** 25 rounds

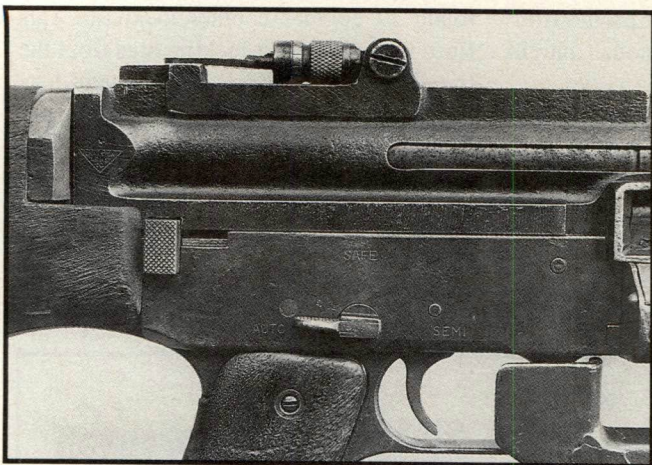
**LENGTH OVERALL** 42.0 in (106.7 cm)

**BARREL LENGTH** 22.0 in (55.9 cm)

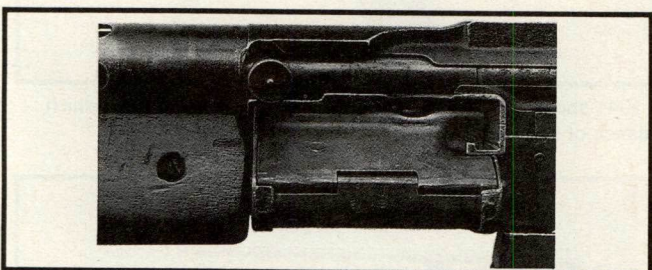
**FRONT SIGHT** elevated blade

**REAR SIGHT** elevated dual aperture: bottom aperture 0-1,000 yards, upper aperture 1,000-1,500 yards (914-1,373 meters)

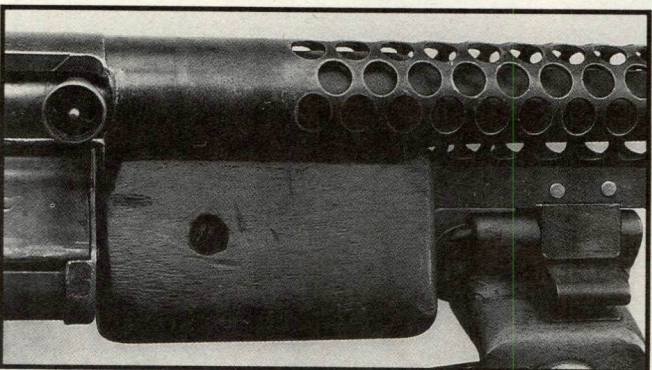




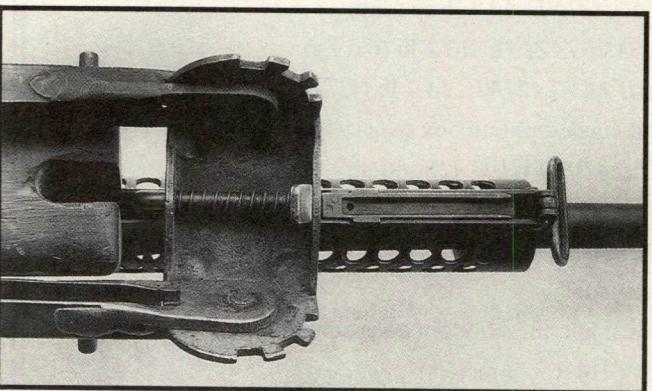
The selector on the right side of the weapon provides semiautomatic fire in the forward position, and fully automatic fire in the rearward position. When in the vertical position, the selector functions as a safety by locking both the sear and bolt catch.



Details of the bolt operating handle, and the magazine support body and cover. While the detachable box magazine is inserted into the well in the magazine support body on the opposite side of the receiver, the LMG can be loaded with loose rounds or five-round stripper clips through the support cover, which functions as a loading gate.



Side view of the radiator sleeve and bipod construction forward of the bolt operating handle.



Underside view of the radiator sleeve and bipod construction.

cycle the action.

The bolt continues rearward, extracting and ejecting the spent cartridge case, cocking the hammer, and compressing the main operating (recoil) spring. If the selector is forward, the bolt will chamber a new round. If the selector is rearward and the trigger is no longer depressed, the bolt will remain in the open position. If the trigger is still depressed with the selector on full auto, then the bolt will chamber another cartridge and fire as soon as the rotary bolt is locked. The LMG cannot fire out of battery because the cam unit carries the firing pin and keeps it out of proper alignment until the locking sequence is complete.

The Johnson LMG was normally issued with a four groove, right twist 22 inch (55.9 cm) barrel, but 20 inch (50.8 cm) and 24 inch (61.0 cm) barrels can also be encountered. A perforated barrel jacket, which is actually an extension of the receiver, guides the barrel during recoil and serves as a handguard. Since the barrel is exposed for its entire length, it cools fairly quickly. The barrel can be changed in 10 seconds by a skilled operator.

The barrel features an elevated front sight. The rear sight has two apertures. The bottom one is used for ranges under 1,000 yards, and the top one is used for ranges from 1,000 to 1,500 yards (914 to 1,372 meters). The rear sight folds down for protection when it's not being used.

A bipod is mounted under the forearm. While the placement of the

bipod on the barrel jacket provides rapid target acquisition, this placement does not provide as stable a platform as the BAR's bipod at the end of the barrel. Operators commonly removed the bipods in the field to save weight.

The U.S. Army and the Dutch government tested Johnson's rifle and light machine gun in 1940. Orders were promptly placed for both rifles and LMGs for the Netherlands Indies Army, and a few months later for the Royal Netherlands Navy. The U.S. Army wasn't interested, however. The U.S. Marines tested the Johnsons in November 1941, and adopted the Garand a few weeks before the outbreak of war.

Suddenly the Marines faced a critical shortage of weapons, so they ordered a small quantity of Johnson rifles and LMGs. Marine paratroopers used both weapons in the Solomons. The first combat use of the Johnson rifles and LMGs was when the Marine's 1st Parachute Battalion attacked Gavutu. They were also used at Tanambogo and Guadalcanal. The Marines went on to use Johnsons at New Georgia, Choiseul, and Bougainville.

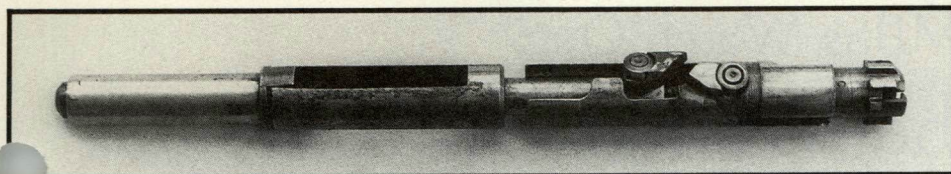
Additional Johnson rifles and LMGs were purchased for use as special-purpose weapons by the Office of Strategic Services (OSS) and the U.S. Army 1st Special Service Force. The latter group used the Johnson LMG as late as 1944 at Anzio.

Orders for the Johnson LMG had dried up by the end of 1943. The Germans occupied the Netherlands and the Japanese occupied Dutch colonies in the Pacific. And American buyers turned to standard-issue weapons, which were finally being produced in quantity. Production of the Johnson weapons ended in early 1944, after about 70,000 rifles and 10,000 light machine guns were delivered.

An improved variant of the Johnson LMG incorporated changes suggested by combat experience with the Model 1941. Tests at the Aberdeen Proving Ground in December 1943 suggested reliability problems when the weapon was subjected to dust, mud and cold. Additional improvements were incorporated, and the new variant was called the Model 1944. The most conspicuous change was that the new LMG features a tubular plastic stock and folding monopod instead of a bipod. Further testing by the Army in March 1944 demonstrated improved reliability.

The Marine Corps Equipment Board  
Machine Gun News - February 1995





The Johnson bolt features eight locking lugs.

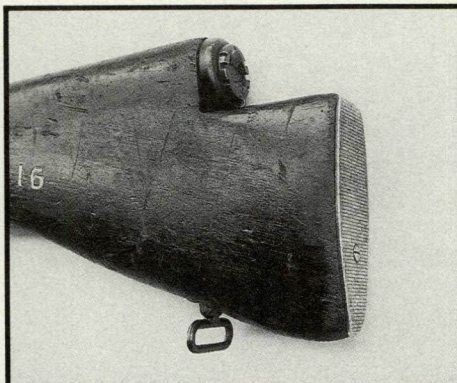
tested the Model 1944 at Quantico, and were so impressed that they recommended adoption of the latest Johnson LMG instead of the Browning Automatic Rifle. The Commandant overruled the recommendation, however, citing two objections. The rapid progress of the war would not provide enough time to retrain troops. And the Commandant believed the Corps should only adopt weapons that were approved as standard issue by the Army.

A few subsequent variants of the Johnson LMG were produced that used a gas-assisted action or fed from a belt rather than box magazine. The Model 1945 used its gas assist to boost the recoil of the barrel and increase the cyclic rate, and it fed from a box magazine like its predecessors.

With its monopod, the M1945 weighed 15.5 pounds (7.0 kg). Barrels could be changed in 6 seconds. When engaged in sustained automatic fire, the barrels should be changed every 1,000 to 1,200 rounds at a delivered rate of 50 rpm. This delivered rate can be speeded up dramatically.

A skilled lone operator can load and fire 180 rounds in 1 minute on full auto, or 60 aimed shots on semiautomatic. A two-man team (gunner and loader) can load and fire 100 rounds in 18 seconds or 200 rounds in 37 seconds. That's a delivered rate of 300 rounds per minute. A skilled three-man team with spare barrel and lots of magazines can deliver 1,000 rounds in 3 minutes — and that includes the time it takes for nine barrel changes!

Yet, in spite of such performance and a lot of interesting design features, no further sales were secured. Development of the Johnson light machine gun ceased completely in 1947. The design resurfaced in the early 1950s, when the Israelis developed a direct spinoff of the Johnson Model 1944 LMG, which they called the Dror. Israel Military Industries manufactured a number of guns in two calibers: 7.92x57mm and .303 British. The choice of calibers was logical at the time, since the young country had purchased a large number of weapons in the former caliber from Czechoslovakia, and they'd acquired a number of weapons in the latter caliber during the British occupation of Palestine



The Johnson's straight-line stock helps mitigate the effects of recoil. Note the mainspring tube screw that secures the rear of the mainspring tube, which is located along the upper edge of the stock.

prior to Israel becoming an independent state. Testing of the IMI Dror demonstrated that the weapon did not function reliably in the dusty desert environments of the Middle East, so this clone of the Johnson Model 1944 never went into full production.

The Johnsons and the IMI Dror slipped into obscurity. Castro used Johnson rifles and LMGs in his campaign against Cuba's Batista government from 1958-1959. In an ironic turn of events, anti-Castro Cuban guerrillas based on the mainland later used Johnson rifles and LMGs against Castro.

Fortunately for collectors in the United States, the Johnson family donated a number of LMGs to the Winchester Museum in Cody, Wyoming. Since the Johnsons didn't fit well into the collection, these weapons were eventually sold to a dealer in the Midwest. Two things make these Johnson LMGs noteworthy. (1) They represent most of the fully transferable Johnson LMGs on the registry. And (2) the guns from the Winchester Museum did not have factory original bipods. The dealer had very good—but not perfect—reproduction bipods manufactured for these guns.

The Johnson Model 1941 light machine gun remains an interesting engineering achievement that filled a useful tactical niche. But the Johnson appeared too late to achieve more than a footnote in history. As the prolific weapons designer Eugene Stoner observed, "Timing is everything."

MGN

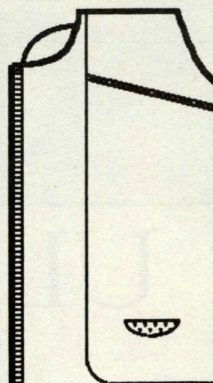
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## ULTIMATE M11

by MONTY MENDENHALL

The March 1994 issue of *Machine Gun News* contained a description of how the author modified a Cobray M11 to make it a much better gun. The M11, described in that story, won first and second places in the NFA Rapid Fire Match at the 1993 Knob Creek October event. Since then, that modified M11 has been refined further. It is much improved over its first reconfiguration and is now very competitive against match-prepared MP5 and M16/9mm guns. The Ultimate M11's cost is still very reasonable.

The Ultimate M11 was entered in the 1994 NFA Rapid Fire Championship by a team of competitors from the Triad Action Shooting Klub (TASK). Jim Weaver, last years winner, captured first again. Capt. Monty Mendenhall came in second again behind Weaver, as he did in 1993. Fourth and fifth places were taken by TASK team members Dale Summers and Kenny Loggains. Third place was won by a non-TASK shooter, Fred Woerner. Fred entered with a similarly prepared M11.

An out-of-the-box stock M11 is not useful for much more than cleaning out a phone booth or a

small elevator. Match results have proven though, that a properly prepared M11 is competitive against MP5s and M16/9mms. The total cost to buy an M11 and give it the "Ultimate conversion" is about \$1100. MP5s and M16/9mms cost more than \$2500. The "Ultimate M11" is very cost effective.

The original modifications to the M11 were extremely simple. The only tools required were a screwdriver and a set of Allen wrenches. Every accessory used in the original conversion was and still is available through the mail from retail trade outlets. The total cost of the original conversion, including a red dot style sight, was

\$210. It was a vast improvement over a stock M11.

The 1994 Ultimate M11 conversion is more expensive and requires the work of a skilled machinist or gunsmith. The result though is a short, lightweight, accurate, reliable, and extremely controllable match gun. The original M11 conversion had an excellent stock, which was retained on the Ultimate M11. It had no foregrip though. The muzzlebrake installed easily but was not very effective. Readers who have that muzzlebrake on their M11s will do well to remove it and replace it with an MP5K style foregrip. It is available from MAC and installs with only an Allen wrench.

The muzzlebrake and the foregrip cannot be installed simultaneously on the original short barrel. The MP5K style foregrip enhances control to a far greater degree though, than the inefficient muzzlebrake originally used.

The Ultimate M11 has a ten inch barrel. It has an MP5K style foregrip and a very efficient three-chambered muzzlebrake compensator. Using full power ammo, an expert can keep two-round bursts inside a six inch circle at fifty feet. If lower powered



Finished M11 gun as described in March 1993 MGN.



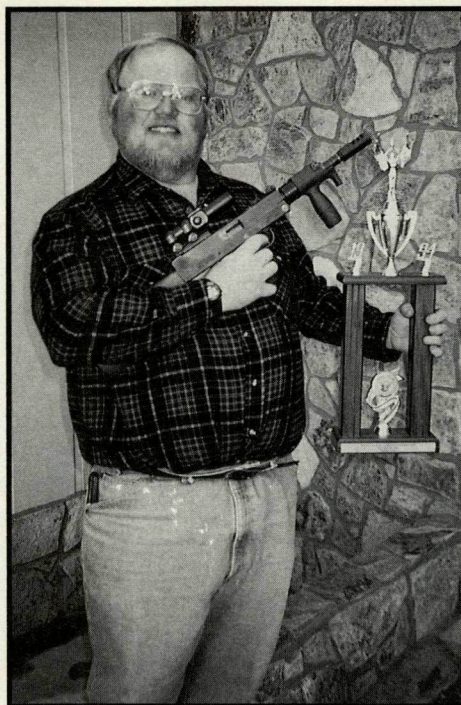
match ammo is used, the groups are even smaller. An expert can fire a thirty-round continuous burst at fifty feet and place most of the bullets in the 6x11 "A" zone of a standard IPSC target. A very good shooter might shoot for the upper 6x6 "head zone."

Comparison testing and match experience proves that the Ultimate M11 will outperform unmodified MP5s and Colt M16/9mms. Both guns cost two or three times the price of an Ultimate M11. For the more expensive guns to equal Ultimate M11's controllability, a well designed muzzlebrake must be installed. Without one, neither gun will consistently keep a three-round burst, much less a thirty-round burst, in the "A" zone at fifty feet. The Ultimate M11 will.

Owners of M11s, who want to improve their guns, should get a copy of the March 1994 issue of *Machine Gun News*. Back issues are available from the publisher. That issue explains how to make an M11 into a competitive match gun with a minimum expense and no gunsmithing skills. M11 owners with machinist skills, who want the Ultimate M11 conversion, can obtain the necessary parts from the listed suppliers and make their own Ultimate

The barrel of a ten inch upper receiver is threaded for the muzzlebrake compensator. The threading must be done on a lathe to assure that the threads are concentric to the bore. Otherwise, a bullet may strike the chamber wall inside the muzzlebrake compensator with disastrous results.

The MP5K style foregrip has a metal tube that surrounds the barrel. It slips easily over the standard five-inch M11 barrel. Unfortunately, it will not fit over the new ten-inch barrel. Reducing the diameter of the barrel on a lathe will allow the foregrip to fit. It is better to bore out the inside of



Jim Weaver with his Ultimate M11 and 1993 NFA Rapid Fire Champions Trophy.

the foregrip so that an unmodified barrel may be used.

Mounts for red dot style sights are available that will fit the M11 with no gunsmithing work. Jim Weaver used one in 1993 while winning the NFA Rapid Fire



Unmodified M11 with stock retracted.



M11 with screw on muzzle brake removed and MP5K style foregrip installed.

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Championship at Knob Creek.

The "no gunsmithing" mounts have two faults. First they tend to work loose at inopportune moments. Proper attention to maintenance can prevent that though. Second, they place the red dot sight too high. That causes significant parallax errors. Weaver's 1993 championship gun was sighted to hit dead on at ten yards, where most match targets are placed. At fifty yards, parallax caused the M11 to hit eight inches above the point of aim.

The crafty 1993 NFA match directors made a true championship course and placed several targets at forty yards and beyond. Weaver's time was increased due to the need to consciously hold under the targets.

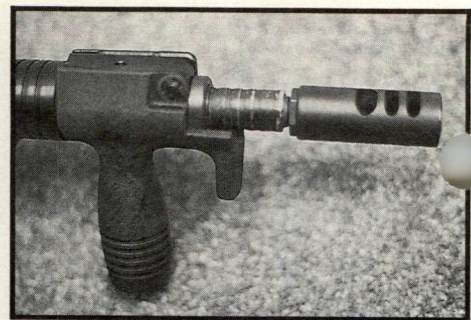
The Ultimate M11 solves the parallax by placing the Weaver mount only .6 inch above the top of the upper receiver. Lowering the red dot sight, halved the parallax error at fifty yards. For "serious

social intercourse," a ten-yard "zero" is ideal. From the muzzle to 120 yards, the bullet is never more than 4.5 inches above or below the point of aim.

Further testing revealed that sighting the Ultimate M11 to hit dead on at twenty yards is a better choice for subgun matches. Then, the Ultimate M11 hits .8 inch low at ten yards and dead on at both twenty and sixty yards. Between twenty and sixty yards, the bullet is never more than .6 inch high.

The M11's upper receiver is thin. It is only .060 inch thick. If a low Weaver mount is attached with only screws, they will soon shear or work loose. The mount must be silver soldered to the upper receiver to be trouble free.

Care must be taken when soldering to assure that the mount is aligned correctly with the upper receiver. If much misalignment occurs, the red dot sight will not have enough internal adjustment to zero it on



MP5K style foregrip and very efficient three chamber muzzlebrake compensator.

the target.

To facilitate rapid magazine changes, the standard mag release was replaced. The new "paddle" mag release is similar to the one found on a MP5. Use of the new release saves about 1/4 second per magazine change. If three mag changes are needed, then the 3/4 of a second will be saved. That can mean the difference between first and third place.

If the M11 owner is not a machinist but

*Each of the charts is for the match Handloaded bullet. It is a 3.0g of Bullseye and a 95g Jrn bullet. The first two charts compare the trajectory when the height of the sight is lowered one inch. The second and last charts compare the trajectory with the lower sight when the gun is "zeroed" for ten and twenty yards.*

#### Red Dot Sight Mounted 2" Above Bore

*Sight-in Range (yards): 10*

*Muzzle Velocity (FPS): 1050*

Range Yards	Velocity FPS	Energy FT-LBS	Impact Inches
10	1024	221	0.0
20	1000	211	1.7
30	978	202	3.0
40	958	194	3.9
50	939	186	4.5
60	922	179	4.7
70	905	173	4.5
80	896	167	3.9
90	875	161	2.8
100	861	156	1.2

#### Red Dot Sight 3" Above Bore

*Sight-in Range (yards): 10*

*Muzzle Velocity (FPS): 1050*

Range Yards	Velocity FPS	Energy FT-LBS	Impact Inches
10	1024	221	0.0
20	1000	211	2.7
30	978	202	5.0
40	958	194	6.9
50	939	186	8.5
60	922	179	9.7
70	905	173	10.5
80	890	167	10.9
90	875	161	10.8
100	861	156	10.2

#### Red Dot Sight Mounted 2" Above Bore

*Sight-in Range (yards): 20*

*Muzzle Velocity (FPS): 1050*

Range Yards	Velocity FPS	Energy FT-LBS	Impact Inches
10	1024	221	-0.8
20	1000	211	0.0
30	978	202	0.5
40	958	194	0.6
50	939	186	0.4
60	922	179	-0.8
70	905	173	-1.3
80	890	167	-2.8
90	875	161	-4.7
100	861	156	-7.1



wants an Ultimate M11 conversion, there is a simple way to do it. Jim Weaver, who is an experienced machinist, can supply a match ready upper receiver and match stock for the owner's M11. The M11 can install it on his gun in less than five minutes. *The complete kit includes:*

- New upper receiver with a ten inch barrel
- Three chamber muzzlebrake compensator
- Weaver mount (what else from Jim Weaver)
- 30mm red dot sight, mounted and zeroed at twenty yards
- match style shoulder stock
- MP5K style foregrip
- MP5 style paddle mag release
- Labor to thread barrel and install compensator
- Install Weaver mount with screws and silver solder
- Machine MP5K foregrip to fit the ten inch barrel
- Rebluing, reassembly, test firing and shipping

**Total cost \$589.00**

Owners of M11s can use the information in this article and in the March 1994 Machine Gun News, to prepare a very effective match gun. Match competition has shown that when using an Ultimate M11, the shooter is limited only by his skills, not any by basic weakness in the gun.

MGN

## SOURCES:

### MAC

Box 759

Copperhill, TN 37313

(800) 344-4MAC

Scopemounts, ten inch barreled upper receivers, no-gunsmithing muzzlebrakes, MP5K style foregrips, no-gunsmithing sight mounts

### B-Square

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Call for name of nearest dealer for no-gunsmithing sight mounts

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### Jim Weaver

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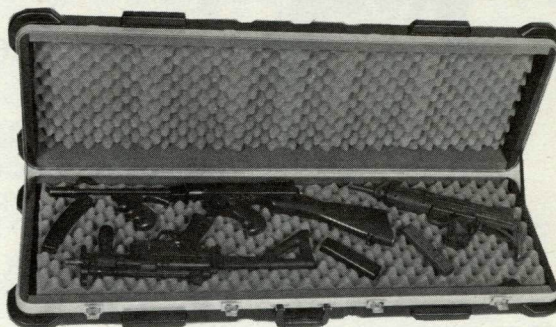
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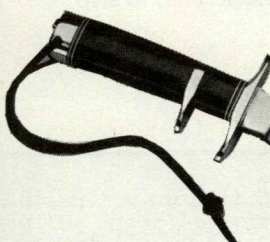
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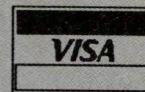
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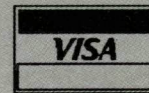
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# The Ammo Bunker

by **DUTCH HILLENBURG**

*More Weapons Caching*

Several months back I did an article about weapons caching. The article was reprinted in *Soldier of Fortune* magazine and I was contacted by several companies which are marketing products to help protect your weapons for long term storage. **Allegheny Arsenal Inc.** markets "Guardian Gun Care Products" including a "Corrosive Ammunition Neutralizer" and a "Long Term Protectant."

The "Corrosive Ammunition Neutralizer" is not unlike the tried-and-true "G.I. Bore Cleaner" which has grown difficult to find and which is sometimes deteriorated beyond use when it is located. I once bought two cans at a gunshow to discover that they contained kerosene!!! The U.S. military switched to noncorrosive propellant and primers over forty years ago. They continued to use the old bore cleaner until the stocks of corrosive ammunition were depleted and then they adopted a new generation of cleaners and lubricants. The current issue lubricants are fine for noncorrosive ammunition but they just can't handle the corrosive salts found in old ammo. The *Guardian* products are an option for corrosive ammo users unable to find a reliable supply.

The "Long Term Protectant" is a rust preventative compound which is designed only for use when long term storage under possibly adverse conditions is planned. The manufacturers claim that it meets the military specification MIL-C-16173D-GRADE1 and during a laboratory test showed no corrosion when exposed to a



Imported smoke grenades from Germany.

20% salt spray for over 2000 hours!!! This is an ideal product for all you guys burying your "hard times armory," but it takes commitment. You must thoroughly clean your weapon of all dirt and protective lubricants before beginning the appli-

cation of the "Long Term Protectant." It takes 24 hours before the treatment is completely dry and ready for storage. The protective coating requires that you use mineral spirits or kerosene to remove it. **You must not attempt to fire the weapon until the protectant has been completely removed from the chamber and barrel.** As I said, it takes commitment.

The Long Term Store offers mil-spec metalized, heat sealable gun sleeves and Vapor Phase Inhibitor (VPI) paper as used by the U.S. military. This provides a quick and easy option for long term storage. You simply wrap the metallic portions of the weapon in the VPI paper and seal the weapon in the sleeve using a normal household iron. I believe that this provides the most practical option particularly when the packet is then enclosed in a sturdy storage tube filled with a few bags of desiccant. This arrangement provides reasonable protection while leaving the weapon available for speedy retrieval.

For less arduous long-term storage, such as storing rarely used firearms in your gun cabinet, **Dillon Precision** offers protective gun covers for both handguns and long guns. Commonly referred to as "Gun Sox," they are 532 gram desiccants which are reputed to exceed the requirements of MIL-D-3464E.

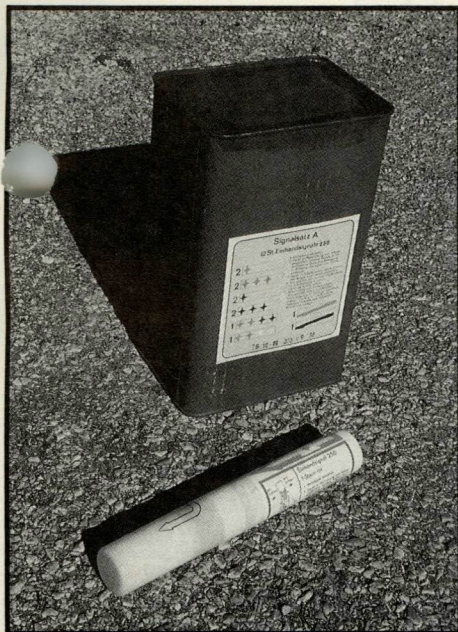
Dillon also makes the best reloading presses made and have the most phenomenal guarantee I've ever encountered. I don't personally reload because I'm just too damned lazy but I do appreciate quality when I see it. I have never encountered a person who was dissatisfied with anything they had obtained from Dillon. I don't buy any reloading stuff but I do buy other items from Dillon. Their catalog carries quality shooting accessories, videotapes and other items popular with firearm aficionados. Their excellent catalog-cum-magazine known as the "Blue Press" is free for the asking and makes very enjoyable reading.



Corrosive Ammunition Neutralizer and Long Term Protectant available from Allegheny Arsenal, Inc.







Red emergency meteor type flares imported from Germany and available from Paragon.

On another subject, Paragon Sales has some neat items which they recently imported from Germany. They are offering some *really cool* red emergency meteor type flares. The flares are in a self-contained one shot launcher and proved very reliable in my test. Because they have only a limited supply of these emergency flares, Paragon didn't go through the lengthy process required to get the Coast Guard to approve them for emergency use. Be that as it may, boaters may want to carry some of these neat flares as spares in addition to the minimum number of approved flares required by the Coast Guard. They also have some smoke grenades which produce clouds of dense and thus very visible smoke. Give them a call. MGN

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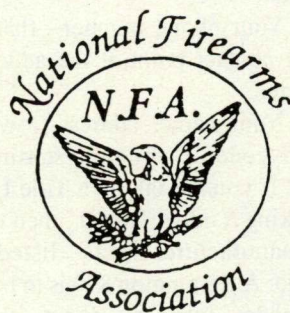
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Buffer, G.I. . . . . \$ 20.	Safety, WRA . . . . . \$ 30.	Front & rear spacer, .308, G.I. new (for pair) . . . . \$ 60.
Buffer tube . . . . . \$ 20.	Scope mount, M-1 D . . . . \$ 75.	Lock frame . . . . . \$ 45.
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Charging handle . . . . . \$ 20.	Trigger guard, unmarked, milled . . . . . \$ 20.	Spacer, 8mm . . . . . \$ 45.
Flash hider, A-2 . . . . . \$ 8.	Trigger housing, comp., S.A. . \$ 55.	Trigger . . . . . \$ 25.
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Lower kit (every replacement part to complete your lower receiver) . . . \$ 60.	Barrel, non-import, Inland or B.A., stripped, original finish . . . . . \$ 90.	Barrel, non-import, Inland or B.A., stripped, original finish . . . . . \$ 90.
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Trigger guard . . . . . \$ 16.	Firing pin, new . . . . . \$ 8.	Forearm bracket, new . . . \$ 40.
M-6 bayonet, new (w/o scabbard) . . . . . \$ 60.	Forearm bracket, new . . . \$ 40.	Rear sight, complete, new . \$250.
M-203	Rear sight, complete, new . \$250.	Rear sight, demilled, cut one time in frame. All other parts ok . . . . . \$125.
Barrel, new, stripped . . . . \$110.	Rear sight, demilled, cut one time in frame. All other parts ok . . . . . \$125.	Safety actuator . . . . . \$ 35.
Extractor, new . . . . . \$ 15.	Safety actuator . . . . . \$ 35.	Safety spring, new . . . . \$ 7.
Forearm, new . . . . . \$ 25.	Safety spring, new . . . . \$ 7.	Trigger, new . . . . . \$ 30.
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The National Firearms Association, a non profit corporation chartered in 1986, was formed to promote the collection, preservation and ownership of Class 3 firearms and their semi auto counterparts. We train Range Officers, conduct full-auto shoots and support legislation designed to benefit all shooting sports. We represent all Title 2 owners and we need your support to continue the fight.

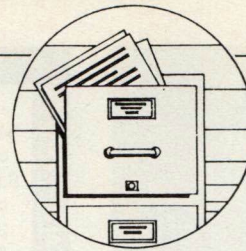
Send \$25.00 for membership to:

**National Firearms Association**  
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# The Forms

by DAN SHEA



The response that I have been getting about which federal form we should concentrate on next appears to be the Form 1—to manufacture a Firearm Tax-Paid. Most of the calls that I have had were related to the current stupidity regarding the recategorizing of the dreaded Striker, StreetSweeper, and USAS-12 shotguns to Destructive Device status. We have been over this scenario extensively in The Forms, so briefly: Striker and USAS-12 shotguns had been banned from importation into the U.S. under the “Sporting Purpose” clause of the GCA 1968. This gave the Secretary of the Treasury authority (ATF) to rule on what shotguns were suitable for an undefined “sporting purpose” or not. Because the definition of a Destructive Device requiring taxing and registration in Title II of the GCA 68 includes firearms of a bore diameter over 1/2", only those “sporting purpose” shotguns defined by the director were exempted. When the Strikers and USAS-12's were submitted for importation in the early 1980's, both firearms were denied, and the appeals process was gone through. The courts ruled that these were not “sporting purpose” shotguns, and the rulings were left standing. It was a simple matter for Handgun Control Inc. to figure out that these guns could be forced to be registered under that clause once they learned about the standing court rulings. They had their lackeys and fellow travelers in the Clinton administration check it out and Lloyd Bentsen made the announcement. There was no policy in place to handle this situation, and typical of the Clintonistas, compliance and regulation was dropped into the lap of the ATF. The ramifications are still spinning around down in D.C., and people are being arrested for not registering or selling without registering them. If you do not believe me, I will be happy to refer some of my phone calls from these guys who didn't pay attention.

## FORM 1: APPLICATION TO MAKE AND

### TRANSFER A FIREARM

1) This form is filed either tax paid by an individual or corporation, tax exempt to manufacture for a government agency or tax exempt by a government agency. The Making Tax is the same for all NFA firearms (Silencers, Short Barreled Shotguns and Rifles, Any Other Weapons, and Destructive Devices. Machine Guns may no longer be manufactured for private ownership), it is \$200 per firearm. The Strikers, StreetSweepers and USAS-12 shotguns that the government is requiring to be registered have had the \$200 tax waved—none need be paid with this firearm. I suggest to people to use a check to pay the tax, so that you have a record of Washington cashing it. If you send a money order, and it gets lost, you won't know about it for months. If you are making a firearm for a police department, the tax is not paid. A police department that is manufacturing an NFA firearm other than a machine gun, for their own use, should use a Form 1 instead of a Form 10, because then the firearm is transferable and may have future value. If they use the Form 10, it can only be transferred to government agencies.

#### 2) Obvious.

3a-c) Your address—if it is not your physical address, as is the case when you have a PO Box address, put your physical address in 3b. Your county must be listed in 3c. Note that I say “must.” Any missing information will cause the form to be kicked out.

3d) Your phone number—this should be your contact point at the address you have listed.

4a) Your name, address, town, state and zip code if you are starting from scratch. If you are taking a Title I firearm and making it into a Title II, then the original manufacturer gets listed here. Example: A Remington 870 is to be cut off and made into a Short Shotgun. Remington gets listed as the manufacturer. If you are welding up scrap parts to manufacture the firearm receiver, you are the

manufacturer and your name goes here.

4b) Type of firearm—it should be one of the following: Silencer, Short Barreled Shotgun, Short Barreled Rifle, Any Other Weapon, or Destructive Device. If this is a government agency piece, it may also be a Machine Gun or a Machine Gun Sear.

4c) Caliber—what caliber is the firearm? Is it multiple calibers? Then list them. In the case of a sear or conversion unit, this really should not apply (N/A). However, most people have listed the intended caliber here.

4d) Model—this is up to you. It must be marked on your firearm at the end. In the case of a remanufacture, it makes sense to add to the original. Example: 870 to an 870-S.

4e) Length of barrel—measure from the feeding end of the chamber to the crown end of the exit port. Barrel extensions do not count. If there is no barrel then insert “N/A.”

4f) Overall length—total length of the firearm or unit. In the case of mortars, it's the barrel and receiver. Cannon—barrel and breech ring. Firearms—stock folded or unfolded. Devices—sears, bolts, pen guns, camera guns, etc., actual length.

4g) Serial number—make one up. Try to use your initials or something to make it other than “001.” If it is a remanufacture, use the original, then add a suffix of your initials if you want.

4h) In the case of a remanufacture, this space should say it is marked with “your name, town, and state.” Any other markings should be noted here. Example: For a PD that installs a sear they made into an HK94, the notation here might be “Sear installed in HK 94 serial #———, barrel length (whatever they cut it to); overall length (whatever the new length is).” In this manner, the HK 94 can have a full length barrel installed in it later, the sear removed, and it is a Title I firearm again.

4i) State why you intend to make the firearm. Keep it simple. Military arms collector, investment, use by police department, re-enactor, museum use, self-



defense—be prepared to write a statement on THAT one. The Striker, Street Sweeper and USAS-12 owners may put “registration required by government” here.

5) FFL numbers if you hold a current FFL. Yes, it does speed up the process a little—ATF already has background checks to refer to.

6) ATF identification number—if you are a Special Occupational Taxpayer, Class 3 dealer, Class 2 manufacturer, Class 1 importer, you insert your EIN here. A Class 2 manufacturer may still need this if they are making a Destructive Device or registering a Striker, etc. This info does help.

7) Same as #6

8a-e) Standard questions—answer them honestly. Lying is perjury like it is on a 4473.

9a-d) Same as 8.

10) Same as 8.

11) Your full, legal signature in ink. I suggest blue ink, so that there is no question that the signature is an original. You will be filing two copies of your Form 1; make sure that both have original signatures.

12) If you are the individual owner of the intended Title II firearm, type “owner” in this space. In the case of a company or government agency, put your title here.

13) Date—the day you are filing this form—the date of your signature.

Space at the bottom is for ATF examiners only.

## SIDE 2:

All Form 1's, except for the government agency applications, need the photograph and law enforcement certification. And—surprisingly enough—corporate filings do not need these. If a corporation is investing in, say, an M-203, they can file the Form 1 front only. All others must submit a passport-size photo of the person signing the front on each of the two copies that are submitted. Any photo shop can supply the passport-size duplicates.

Law Enforcement Certification. There is a list of eligible “Chief Law Enforcement Officers” at the bottom of the page. If you can not find someone to sign, call ATF NFA

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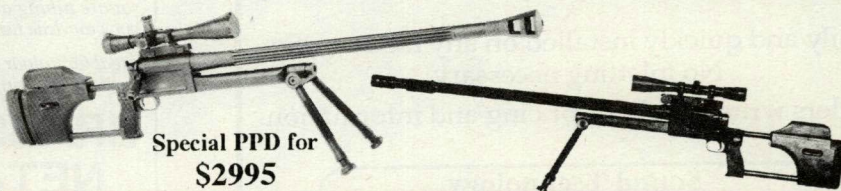
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Branch in Washington D.C. (202-927-8330) and they will try and help you find a qualified signer. No signature—no approved form.

**DO NOT MANUFACTURE THE CONTROLLED FIREARM UNTIL YOU HAVE RECEIVED AN APPROVED COPY OF YOUR FORM BACK FROM NFA BRANCH.** It will take three to six months. If they have any problems, you will be notified. Plan on this taking a long time and you won't be freaking out at the three month point. In the case of Destructive Devices such as cannons, grenade launchers and mortars, it is a good rule of thumb to not be in possession of the barrel until you get the approved transfer. Example: in the case of an M-79 40mm grenade launcher, possession of the receiver and a 40mm barrel is considered to be possession of a complete Title II firearm. If you don't have an approved Form 1, that is a felony waiting to happen. When you have completed your approved firearm, your information must be engraved on the firearm (at 80% of receiver finish).

If you have any questions or want to see another form dissected, write in ASAP and I'll get it next month. I'll do the one I get the most notes on.

**Q** I would like to start by saying that I am a new subscriber and enjoy your fine publication immensely. The purpose of my letter is to ask some technical advice. I am the proud owner of an 08-15 Maxim parts set in unissued condition. It is complete except there is no left-hand side plate, and the original right-hand plate has been removed from the water jacket and trunion. I would ultimately like to assemble this set into a dummy gun for display purposes but want to be very careful regarding the law before proceeding.

I had planned to remove the cam from the RH plate, make up a dummy LH plate (with no cam) from thicker stock, i.e., 3/4" to 1" and put it all together. The thicker LH dummy plate would fill the area where the lock would go and prevent one from ever being inserted. No cams means the "gun" could not cycle.

Is this a good and legal solution? Is there a better way you can recommend?

Would I be better to put it all together with no LH side plate? Presumably this has been done before, and I would be anxious to benefit from your experience before proceeding.

Also, one more note: since I am a new subscriber, I was wondering if you had ever done any stories in the past on German Maxims (I already own Mr. Goldsmith's wonderful book).

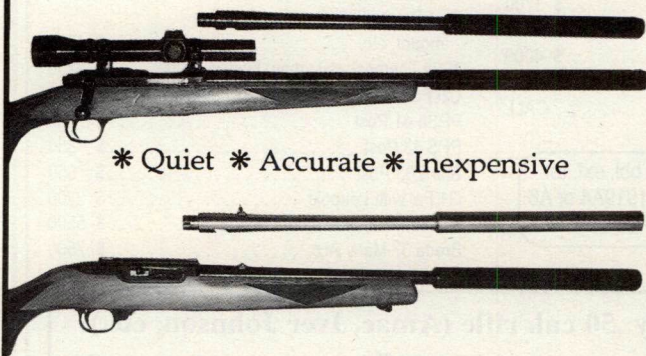
Sincerely,

Name and Address Withheld

**A** I suggest to anyone who is going to make a "non-firing replica" check with Technology Branch, ATF. Their phone number is 202-927-7910. It is easy to make a mistake, and prosecution instead of education has been the policy in many areas of the country. It sounds to me that you have the general idea—make a left hand plate that is solid, extends into the interior so much that there is no possible way to install the internals OR readily alter it to accept the internals. I would also weld up the chamber of a barrel, then weld the barrel into position. I would exclude the lock mechanism, and insure that it

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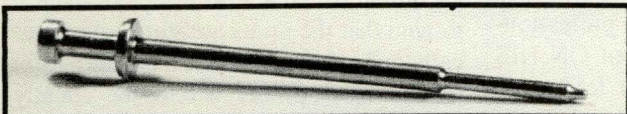
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14. SACO Lowell (qualified) M-60 Post-86 . \$3000.00
15. FN Fal G1 Post-86 ..... \$ 875.00



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could not be installed. Maybe even make that sideplate two inches thick and weld it in place!

**Q** Kenyon Balleu of Silver Springs, MD was shot by the BATF in March(?) 1971 on the word of an informant. The informant said that Mr. Balleu had hand grenades. In fact he did, one of those paperweight novelties! Mr. Balleu is now a cripple at the hands of the BATF.

Don S.

**A** This is a letter in response to the Oefinger article—Doug had requested information on that case, and quite a few people responded. I forwarded all of that info to Doug. I have very clear views about the excessive use of force by law enforcement. The Tactical Team guys that I know understand my view—a professional tries to settle the situation without allowing it to get out of hand. One young firebreather that I know keeps track of every time he DOESN'T kill someone. You can't get a much better attitude than that. On the other hand, when you are going through the door, the point of the

exercise has a lot to do with you coming out and going home safe at the end of the day. As I remember the Balleu case, when the door was broken down and people with guns rushed in, Mr. Balleu grabbed a black powder pistol and tried to defend his house. The team coming in fired and wounded him, leaving him crippled. The officer who defended himself by firing is correct in my view, but the man who sent him in should be stripped of his badge, and probably jailed. The same goes for the Waco situation. Poor intelligence gathering, over-reacting to tax violations, grandstanding, media hogging, and showmanship all add up to a really deadly situation every time. I have yet to see a professional get into a situation like that ON HIS OWN. It is the fault of the leadership when a situation gets out of hand. I still firmly believe that there are high-ranking officials in the Clinton administration that should be tried for Capital Murder on the Waco massacre. They should make a public apology to the victims and the American people (including the agents

that they sent in on this mission). At the very least there should be resignations and compensation for the victims, as well as a thorough inquiry into how this could happen in the first place. I think some fans need to be pulled and some priorities re-directed. Mail this to Newt Gingrich.

**Q** I am writing NOT only for myself but for a number of fellow NFA owners online from the NFA Online List.

When getting fingerprinted for my last transfer, I was scanned using the new laser fingerprint scanner at my local township police station. It printed out very nicely on the FBI Applicant cards we have to submit each time we do a transfer. It's of interest to note that the prints are stored electronically and are available for modem transfer to any laser printer across the country equipped with this technology.

My next question is why can't we send our prints electronically to the FBI instead of having to have them scanned from the cards as the ATF is doing now? We are told this is the major hold-up in getting a

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AR-180	BREN	Lewis	FNC	Stoner	FN MAG
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M2 .50 Cal	Vickers	Calico	Skorpion	MAS 38	Gatling







## ADDITIONAL REQUIREMENTS

### 1. PHOTOGRAPH

The Chief of Police, Sheriff, or other official acceptable to the Director must complete the "Law Enforcement Certification" below. If the applicant is an individual (including a licensed collector) a recent photograph must be attached in the space provided and FBI Form FD-258, Fingerprint Card, completed in duplicate, must be submitted.

AFFIX  
RECENT PHOTOGRAPH HERE  
(Approximately 2" x 2")

### 2. LAW ENFORCEMENT CERTIFICATION (See IMPORTANT note below)

I certify that I am the chief law enforcement officer of the organization named below having jurisdiction in the area of residence of

\_\_\_\_\_  
(Name of Maker)

I have no information indicating that the maker will use the firearm or device described on this application for other than lawful purposes. I have no information that POSSESSION OF THE FIREARM DESCRIBED IN ITEM 4 ON THE FRONT OF THIS FORM WOULD PLACE THE MAKER IN VIOLATION OF STATE OR LOCAL LAW.

\_\_\_\_\_  
(Signature and Title of Chief Law Enforcement Officer—see IMPORTANT note below)

BY (See IMPORTANT NOTE BELOW) \_\_\_\_\_

\_\_\_\_\_  
(Signature and Title of Delegated Person)

\_\_\_\_\_  
(Organization)

\_\_\_\_\_  
(Street Address)

\_\_\_\_\_  
(City, State, and ZIP Code)

\_\_\_\_\_  
(Date)

**IMPORTANT:** The chief law enforcement officer is considered to be the Chief of Police for the maker's city or town of residence, the Sheriff for the maker's county of residence; the Head of the State Police for the maker's State of residence; a State or local district attorney or prosecutor having jurisdiction in the maker's area of residence; or another person whose certification is acceptable to the Director, Bureau of Alcohol, Tobacco and Firearms. If someone has specific delegated authority to sign on behalf of the Chief of Police, Sheriff, etc., this fact must be noted by printing the Chief's, Sheriff's, or other authorized official's name and title, followed by the word "by" and the full signature and title of the delegated person.

ATF FORM 1 (5320.1) (10-83)





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8mm CZECH	Clean, brass case Czechoslovakian 8mm ball. 1950's mfg. Packed in sealed tin. \$16.00 per lot 100 rds., Fgt. collect. \$215.00 per case 1440 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.	
.223 Ball	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. \$149.95 per can of 820 rds., Fgt. collect.
9 x 18 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	
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<b>BRITISH TRI-LUX L2A2 SCOPE</b> 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.) <b>SPECIAL: \$249.95, 2 for \$400.00</b>		
<b>RUSSIAN PU SNIPING SCOPE</b> 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 <b>DEALER: \$69.95</b>		

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### Inglis-Browning Hi Power, Cal. 9mm

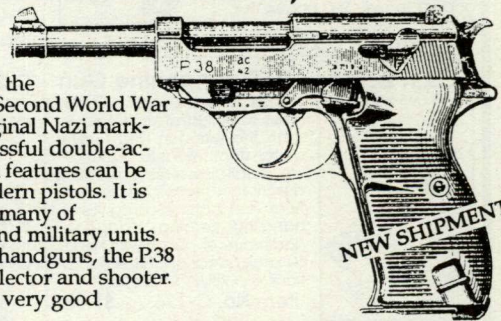
These original British Army issue MK I\* Hi Power pistols were manufactured during WWII and Korea by John Inglis of Canada. Still in use by many of the World's elite paramilitary forces, this classic Browning P-35 high capacity 9mm is ideal for today's shooter as well as the collector. Condition: Good to very good.



Sugg. Retail: \$400.00 Dealer: \$279.95 Select: \$20.00

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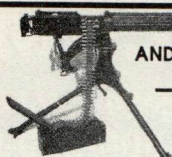
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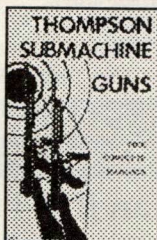
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Sincerely,

A.J. Skiptunas III, D.O.

HKMP5A3@aol.com

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A I share your views on the inevitability of the Information Revolution (but I am not so sure it is a good thing on some levels). I hate to admit it, but we are a low priority on the government's list. It took a long time to get the faxing of transfers approved, and I think that there is going to be a long wait for the electronic filing of fingerprint cards for NFA transfers. I suggest that everyone who is interested in this contact NFA Branch about it:

BATF

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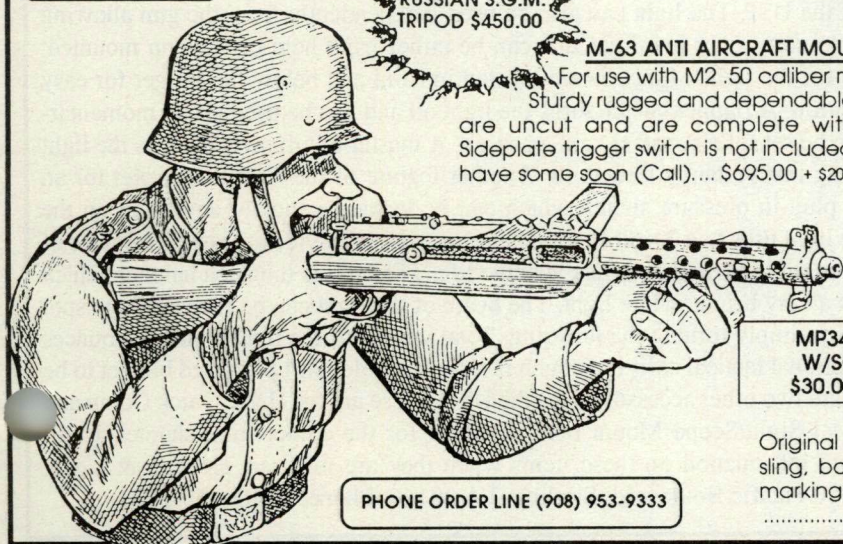
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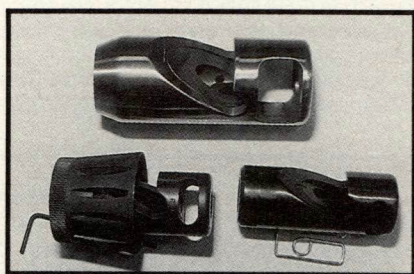




# What's New

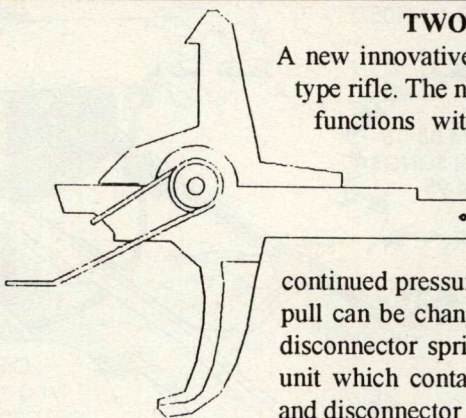
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The unit has ATF approval and will not allow semiauto rifles to fire full auto by its installation. When the unit is installed, the SAFE and SEMI functions remain unchanged. The AUTO setting enables the operator to fire any combination of single shots or auto bursts without moving the selector lever. This could be a very hot item with competitive auto rifle shooters as well as SWAT teams and special operations groups. For more information on the TACTICAL SELECT-FIRE TRIGGER, contact: TAC, Inc., 1160 El Paseo Road D4, Las Cruces, NM 88001. Phone: 1-505-523-7350.

## H&K USP UNIVERSAL TACTICAL LIGHT



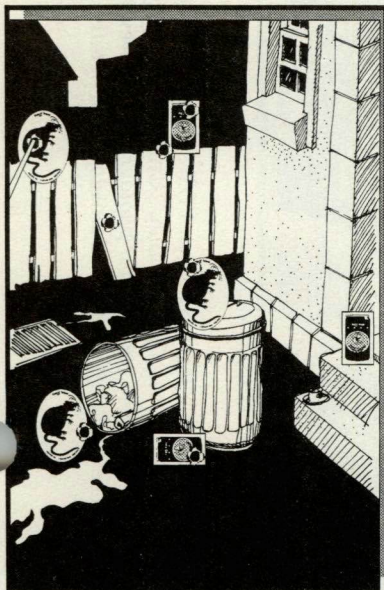
H&K's long awaited Universal Tactical Light is now available. The new light was designed specifically for the USP and will fit all of the existing models of the handgun. Designed and built by Insight Technology, Inc., the new light has features that no other firearm's lighting system has. One of the most innovative features is that the light can be attached and detached in seconds. It uses built-in rails that fit into corresponding grooves that are molded into the bottom of the

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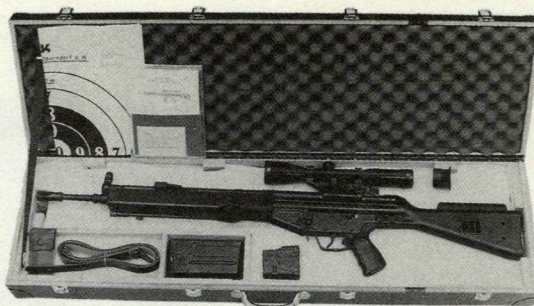
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Any of these weapons can be purchased as a repair part set, minus receiver. Call for details. Weapons available only to dealers and agencies. Part sets available to all qualified purchasers. All orders shipped f.o.b. Hermitage, PA.



# Archive Photo of the Month

*From the Robert Bruce Collection*



Longchamps, Belgium. 13 Jan 1945. Soldiers of the 63rd Armored Infantry Battalion bring in German POWs. That's a pedestal-mounted Browning M1919A4 .30 caliber machine gun on the passenger side of the jeep, and the guy in the back has an M3 .45 cal. "Grease Gun." Credit: U.S. Army Military History Institute. Copyright © 1995 ROBERT BRUCE PHOTO. 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, VA 23150.





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(Beginning with May '90 Vol 4 #2)

1. Introduction
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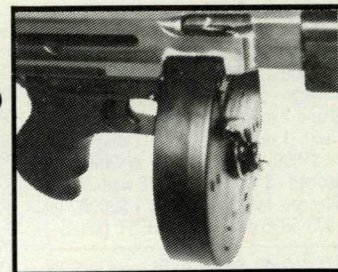
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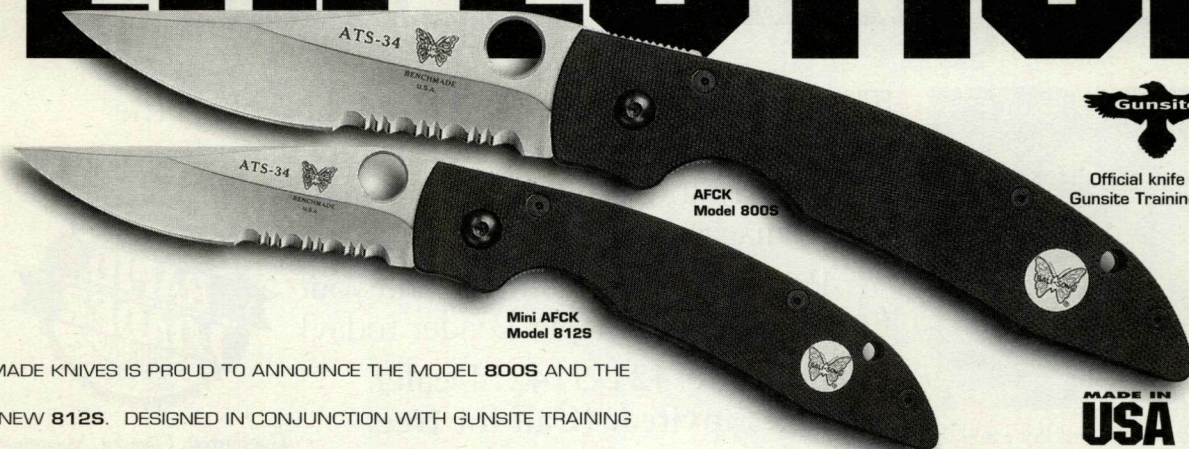
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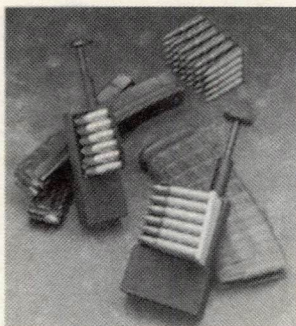
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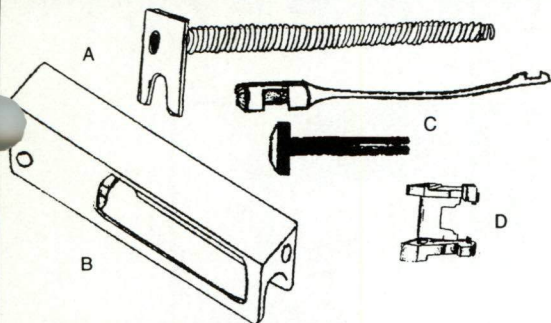
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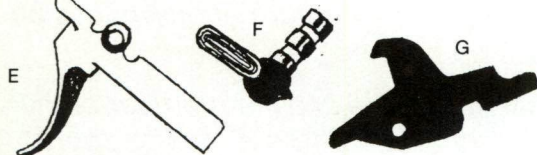


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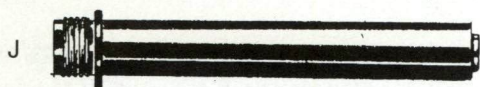


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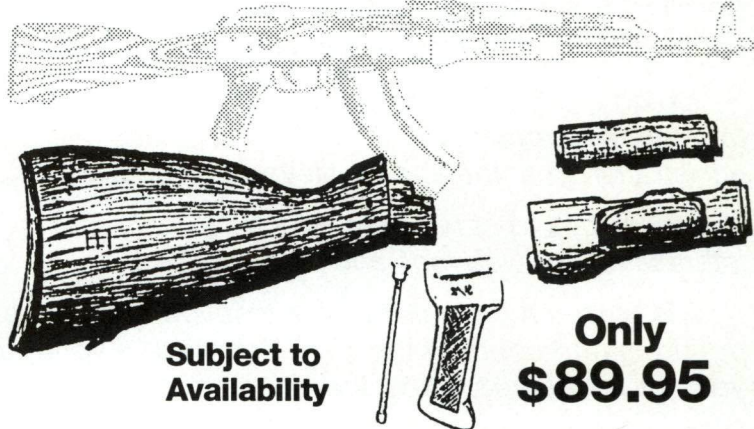


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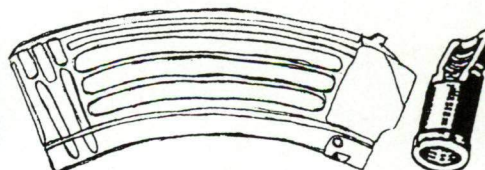
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NOTICE: RPB sells only replacement or spare parts for registered machineguns. We do not sell conversion parts. Federal law prohibits an individual from converting a semi-automatic weapon to a full-auto fire weapon.



# Attention NRA Members!

**Yes,** Samuel "Dutch" Hillenburg is a candidate for the Board of Directors of the National Rifle Association.



If you are eligible to vote in the 1995 election for the Board of Directors, you will receive a ballot in your copy of the **American Rifleman** or the **American Hunter**, which you should receive in the latter part of February 1995.

If you are seriously interested in protecting your gun rights and the future effectiveness of the NRA, do not miss this opportunity to vote. Let your voice be heard.

**Machine Gun News** is endorsing Samuel "Dutch" Hillenburg. He is a life member of the National Rifle Association with a life long interest in several areas of the shooting sports. Formerly an intercollegiate match competitor, Dutch's interests have expanded to a very active role in the Class 3 world following his service in the military. As a monthly columnist for **Machine Gun News** for the past three years, he has authored dozens of articles including several features.

Dutch has served as a reserve deputy sheriff and as a town marshal. He was also employed as a contract specialist by the Department of the Navy where he specialized in buying ammunition, weapons and night vision equipment for use by the Navy Investigative Service, Navy SEALs and the Special Operations Command. He currently operates an importing firm specializing in items from Eastern Europe and the former Soviet Union.

Dutch graduated from Indiana University with a double major in Political Science and History and a Certificate in East Asian Studies. He later studied for a Masters in Business Administration from Indiana Wesleyan University.

He wishes to serve as a director to help represent the thousands of people who have an interest in NFA weapons and he plans to take a strong stand against gun control.

His place on the ballot is due to fellow machine gun enthusiasts like yourselves signing the petitions and sending them in. If you are a voting member, we invite you once again to let your voices be heard and send in your ballot.

We would like to thank you for your support.

Best Regards,

A handwritten signature in cursive script that reads "Vida Ford". The signature is written in dark ink and is positioned above the printed name.

Vida Ford

Editor/Publisher, Machine Gun News