.45 MINUTEMAN SMG

EDITOR'S NOTE

When the subject of American-type homemade works are discussed it is only natural to think in terms of "back alley" zip guns, clubs, knives, etc. More sophisticated devices are usually associated with foreign countries and, more specifically, partisin or undergraphic artistics.

In the last few years, a lot of "how to" boo and plans have emerged to an eagerly awaiti market whose motivation seems more education than political. However, none of these weapons he ever equalled the Minuteman submachine gun.

The term "Minutemen" — relevant to the American Revolution — lay dormant between the covers of history books until the early 1950's when cauthor Taylor Caldwell fictionalized a patrotic American underground group called the "Minutemen". It can only be speculated whether or not Caldwell's book spawned the "for real". Minutemen organization in the late 1967, real." Minutemen organization in the late 1967.

This militant anti-communist underground or ganization operated, largely, as a "mail order" type distribution network for printed material consisting of training lessons and membership bulleting which contained a lot of how-to information. Probably the apex of their how-to efforts came in the form of a set of large for a house constructed advances him

Inspired by the thought that Americans might one day have to field a "last divide hattle" and the fact that if the gan grabbers have their way. This fight might have to be conducted with improvised weapons, the Minutenan submachine gan was been in a basement in suburban Kansas City, Missourife the mid-1960's. Touted by some as a weipon that could be constated by anyone with simple hand tools for an expenditure of under \$7.00, it mixed the systems of accomplishing diamentitis—man

It was a simple design resembling the 3ten in outward appearance. With open bolt slam firing, blowback action, full auto only and no safety, it used M3 Grease Gun magazines since it fired the 4.5 ACP cartridge. Yes, boys and giths, in those pre-MAC 10 days. 45 ACP ammo and Grease Gun

Such a submachine gun design, surprising many, is usually easier to "homebuild" than a semi-automatic weapon. The sear mechanistypically, is no more complicated then the caton your kitchen eunboard! The curiosity and motibalia attached to this particular weapen could no longer be incored, now assigned the task of actually building one to PIRE-POWER staffer Gary Hill, who besides being a Master Machinist is, also, a Class II manufacturer. The evenil was most interesting With only a few medifications, Gary produced a clause SRG with offer the country of the cou

Ry Gary Hill

When I began building the Minuteman and subshipe gate based on plant from the famous mans assumed to the plant from the famous mans assumed, we consider the plant from the famous mans proceed, we consider the plant from the famous from the plant from the plant from the plant for the plant from the plant f

Lings tan project one step turner and nation at the "extroom" features which anyone building the gan anglit choose to include or delete according to personal taste. My reason for sading these features was to improve consfort, controllability and accuracy. Neither the original published plans nor my distributes presented here are all inclusive in regard to features, which could be included on a weapon of this layer, afforming the home builder the opporruntify raised ship own "custom" features.

SMG. I was aloused with the main remitted by the third in the state of the third in a contribution could out for those reads who have the desire and resources to build it. If yo have every built a complete finearm before, this is good "first gain," the design is about as straight forward as you can possibly get. The weapon fire from an open boil, is non-selective, and has no mar from an open boil, is non-selective, and has no mar



The high cyclic rate of the Minuteman SMG is evident by the number of rounds of brass in the air at one time.

and wherever possible the dimensions allow a reasonable clearance between the parts to ensure free movement un-

If you don't have access to or a ching knowledge of the use of a seal lathe, milling machine, drill press, you can have a machine drill press, you can have a machine though status the components that you it make yourself, One custion to make the ching the seal of their your approved BATF and comes back to you. At that you can begin constructing the re-

I have seen some ridiculous advergration by a particular comminsis SMG plans similar to the claiming that the homecommittee that the same and the same can build one of their guars. For whichest using any mo, hore tool as a bate, mill or drill green. The office of the same and the same as a bate, mill or drill green. The office of the same and hard drill green would get they have actually committee suspens store their building of the same and the same and the building of the same and the same and the building of the same and th hand, but to maintain your strilly highly recommend that you not tortuyourself by trying to do so! Leave thand manufacture of guas to the boin mud huts in Afghanistan, where it

1 BUILDING THE C

I used improving a weapons of the mixing Underground as the guide in pretracting this SMG, and any parts high were manufactured strictly according to speed won't be detailed here.



improved by adding a barre

FIREPOWER 2





The original plans, as reproduced in the book "Improvised Weapons Of The American Underground", with minor modifications, were used to construct the Minuteman submachine gun.

An owner applied, organic finish such as "Arm Kote"; c/o SIDNAC, provides an ideal way to finish this SMG. Time not purposes

Margain Of The American Under

constructed of 1-3/8" OD x .065" wall 4130 scamless steel tubing. The magazine housing and trigger frame are causing misalignment of the bolt face in assembling the Minuteman because of

trigger and star and is welded directly to the bottom of the receiver. This part will work exactly at Virawn in the manual, but I shortened the overall length in order to reduce bulk. The modified trigger guard is still very large

The frame as drawn in the munual 10-32 x 1/2" long bufton head can modified to take standard 45 auto

LOADING DAMP & BARRES ALIGNMENT PLUG (Rered Bushing) type was made as ner the drawing in

of aluminum and attached to the This was tested and after about 100 rounds, the screws loosened in the ome mouth and the inertia of the forward slamming holt forced the loosened screw threads to dis into the receiver through which they passed. clongating the screw boles on each

To correct this ailment a new harrel bushing was constructed of steel



One criteria for anod SMG design is the capability of being affectively bandled by a woman. Here Linds, one of the FIREPOWER Mamas, cuts loose with the Minuteman SMG.



barrel shroud. This necessitated holding

the weenon by the manazine The result: muzzle rise FIREPOWER

which was then welded in place in II receiver. The bulling was also modified by having at 13/8° dismeter flange at a 1-148° Ob extension in form of the flange onto which a weathered has no control lightening to the foot map as extractor charance also, the bushing or so willow the control lightening at the foot map as tractor charance also, the bushing or so will be used to the foot map as extractor charance also, the bushing or so will be used to the foot map as control lightening to the foot map as more being and one to the bushing or some being and one to the bushing or or the exercise were filled in with a feet of the exercise were filled in with a feet of the reserving was the filled in with a feet of the filled in the same of the control of the fange to the necessary. The top accuration of the same to bushing and necessity are rectioned in order to attach a form

FEVELETED HANDIGIARD. At the test for some province and the control pro



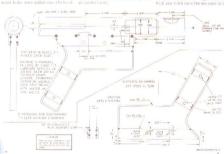
Finished receiver assembly. The original aluminum barrel bushing was replaced by one machined from 4130 steel. For improved structural strength, it was welded in place. Also, two grip mounting blocks were added to the frame for attaching wooden grips.

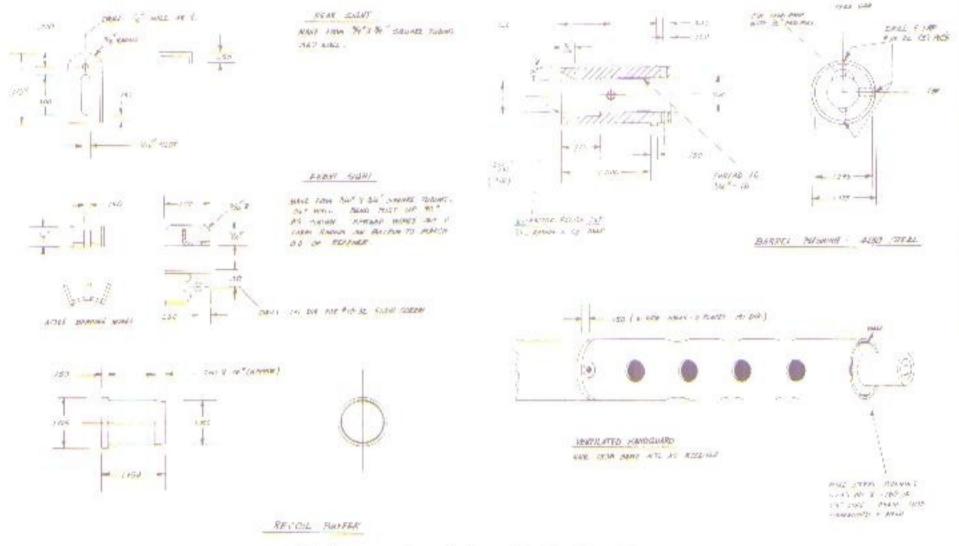


Wooden grips (stocks if you prefer) The original design bu were neatly fitted to the frame, above.

aard to help discipate heat build-up, he size of the holes and total number. It sed aren't really important, dus, so gi ture is plenty of ventilation for the







Minuteman parts revised or added by the author.



Adding a barrel shroud made the Minuteman far more controllable.

The finished Minuteman SMG and removable stock. In the final design, an elastic stop nut secures the retaining block in the end of the receiver.

tension is off of it. To correct this, a hole ,250" diameter x 3/8" deep was machined into the rear of the (rigger to accept a 1/4" OD x 3/4" long return spring. This keeps tension on the trigger at all times, climinating the "flopping" movement. Since the flat trigger has a design in Improvised Weapons specifies tendency to pinch the trigger finger a recoil spring which is wound to two against the trigger goard, a shorter, different diameters. This is virtually curved trigger would also be an asset

BOLT & RECOIL SPRING. For whatever unknown teasons, the gun-

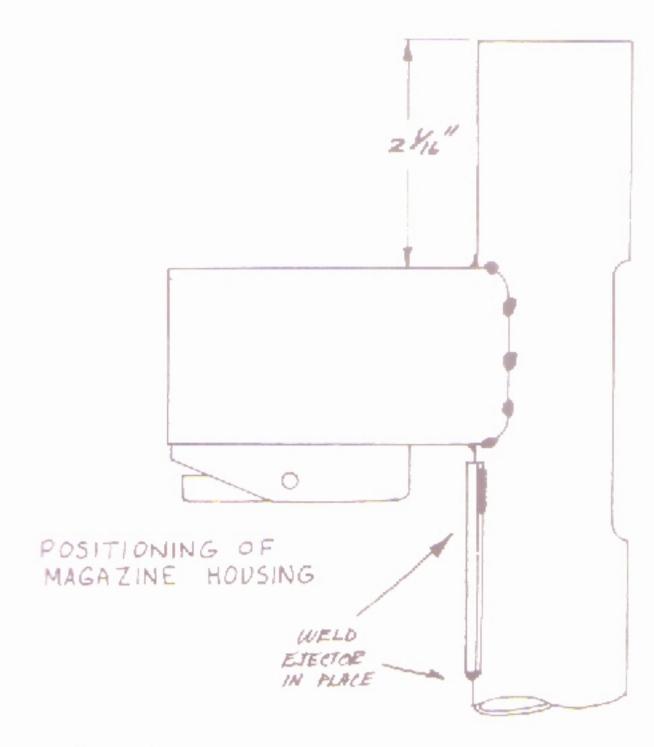
annecessary and makes finding a ready made commercial spring almost impossible. Also, no spees are given as to wire



The barrel shroud was made from the same steel tubing used for the receiver.



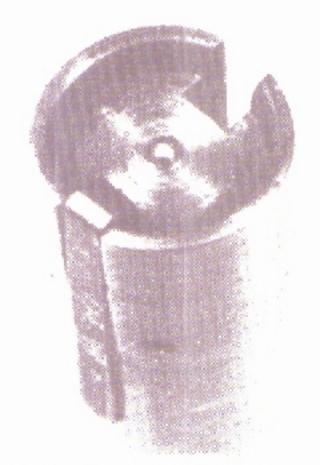
The breech block reflects both Sten and Thompson influence.



New location of magazine housing.

diameter, pitch or length. The spring used in our prototype is made of .063" diameter wire, 2 coils per inch, 1-1/8" OD x 8-3/4" free length.

The counter bore in the rear of the bolt (referred to in the drawing as the breech block) as drawn in the manual is deleted, as well as the angle on the bottom rear of the bolt which isn't needed since in the forward bolt position the sear is still below the bolt, not behind it. If the bolt had completely passed the sear on the forward stroke, the lead angle would be necessary to guide the spring-loaded sear downward as the bolt rebounds.



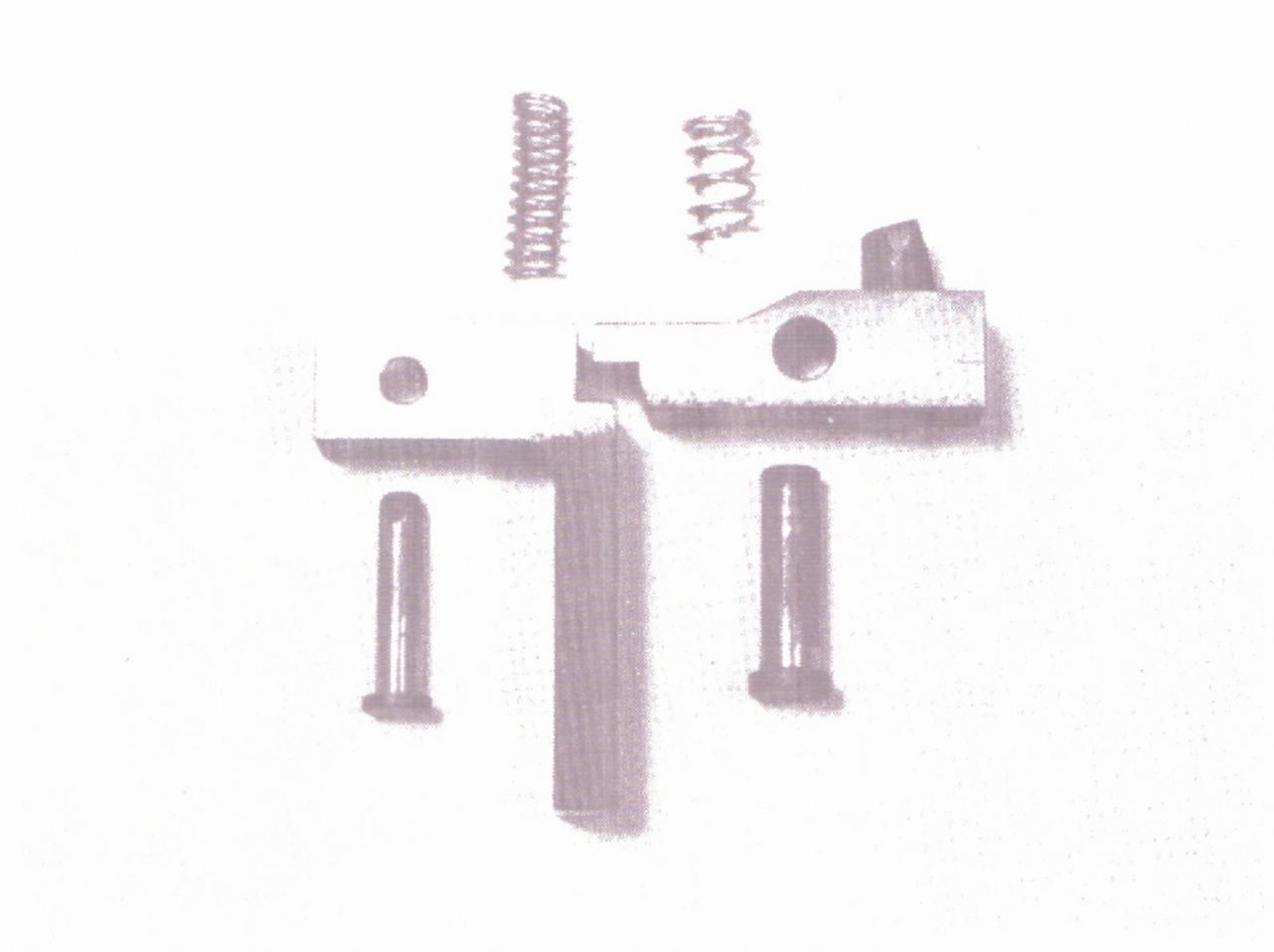
The bolt face/feed ramp combination allowed feeding and firing primed empties!

RECOIL BUFFER. A Urethane recoil buffer was made to cushion the rebounding bolt after it was found that the cocking handle would beat the receiver slot when the gun was fired. Firing the first 30 round magazine caused damage to the rear of the cocking handle slot, which would eventually present a severe problem. The buffer fits snuggly into the rear of the recoil spring and eliminated any further damage to the receiver. Adding this buffer noticeably increased the cyclic rate since the bolt

rebounds harder after hitting the semielastic material. Urethane is an extremely tough and durable rubber and should last the lifetime of the weapon.

EJECTOR. I used the two piece ejector as drawn in the manual, but chose to weld the ejector in the receiver rather than use the two screws as drawn. The reason for this is that there

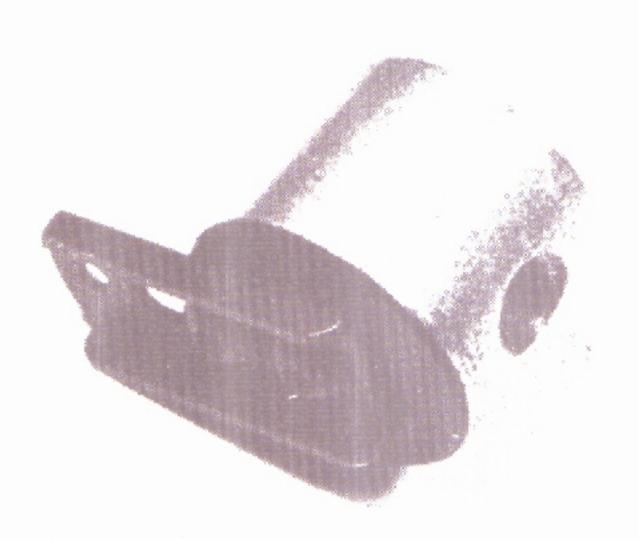
of the receiver directly over the barrel bushing. The screw hole is one of the four original barrel bushing/receiver locking screw positions. The rear sight is also made from the same material as the front, and is attached to the rear of the aluminum retaining plug with two No. 10-32 x 3/8" button head capscrews. This rear sight is adjustable for elevation



The complete trigger/sear mechanism. Being devoid of a safety and select fire option, the mechanism is the ultimate in simplicity.

is no reason to remove it once installed, and since the receiver wall is only .065" thick, the screws could work loose after enough vibration from recoil.

SIGHTS AND RETAINING PLUG. To improve accuracy over the original design, I included sights which work for their intended purpose of providing quick target reference. The front sight is made from 3/4" x 3/4" square tubing, and attaches to the receiver with a No. 10-32 screw. This sight is located on top

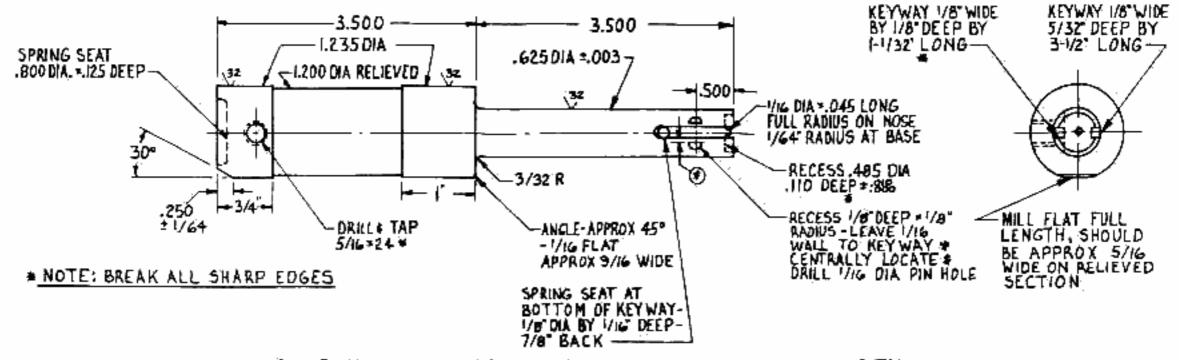


Close-up view of rear sight which was added to the retaining lug.

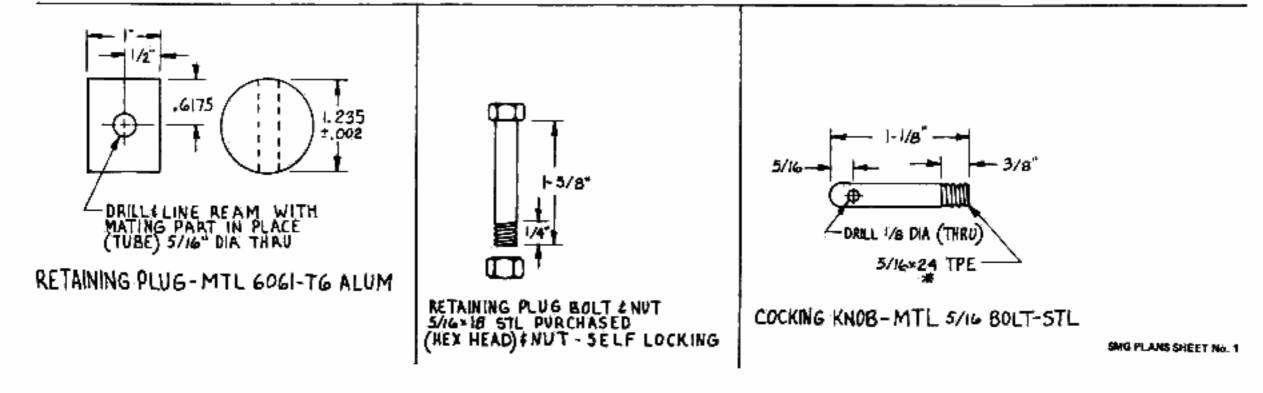
by loosening the screws and moving the sight up or down. For windage, the screw on the front sight can be loosened and the sight moved left or right as needed. This requires that the hole through the sight be slotted to move from side to side.

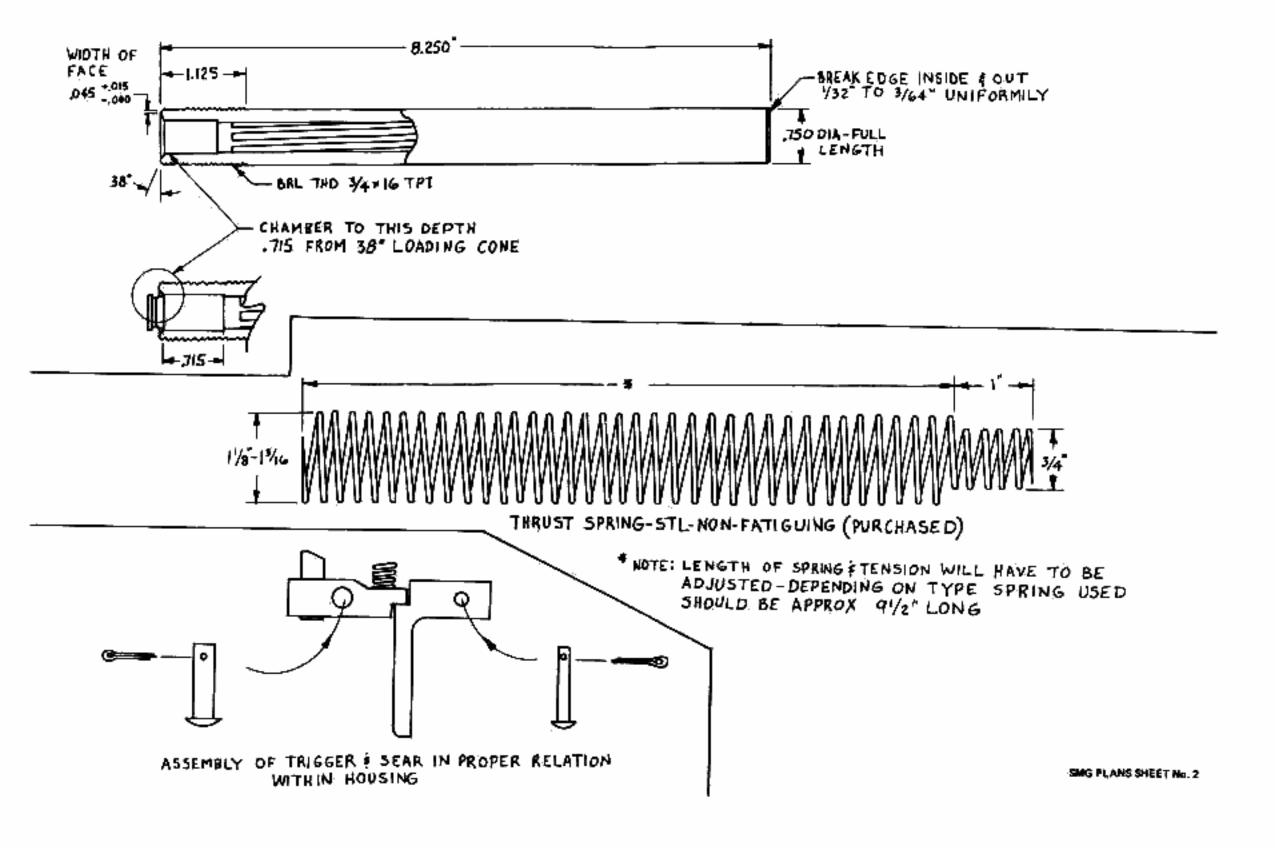
MAGAZINE HOUSING SUPPORT-ING TABS. Although this is not a common practice in manufacturing submachine guns, the magazine housing on the Minuteman is reinforced in its assembly to the receiver by adding a bracing tab to both sides of the magazine housing and adjoining receiver. The two tabs are welded to the magazine housing and onto the receiver wall. This last feature may be used or deleted according to individual preference.

For a "homemade" submachine gun, the Minuteman shot surprisingly well, and it's certainly a lot more unusual than the black powder kits that many shooters have assembled. But in either case, it's still individual preference that dictates which is actually more fun — building the gun itself or shooting it after it's finished.

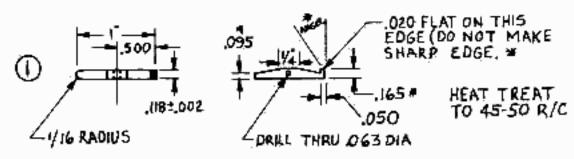








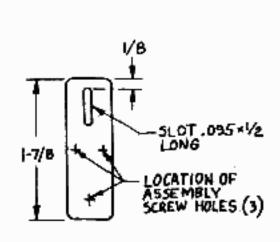
* EXTRACTOR, PIVOT PIN & SPRING (INT'L STEEL)

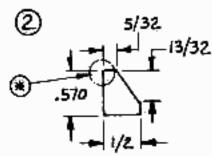


NOTE: THIS PART MIGHT REQUIRE SOME HAND FITTING -(1/32'-3/64" LIP TO SNAP INTO EXTRACTOR GROOVE IN CASE)

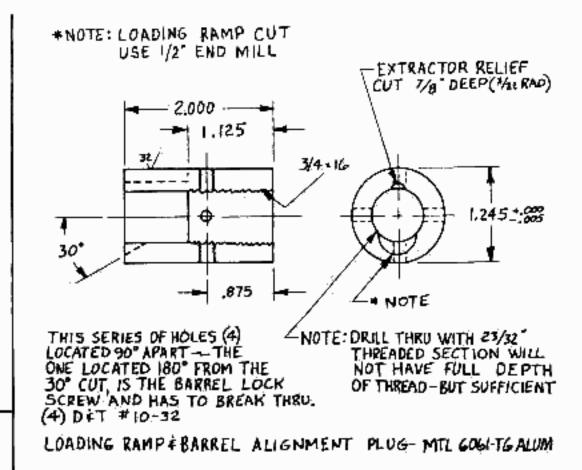
- (2) EXTRACTOR PIN .062 DIA. x.275 LONG (STL)
- (3) EXTRACTOR SPRING .110 -.120 DIA . x 1/8' LONG

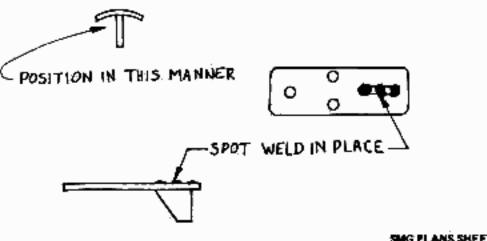






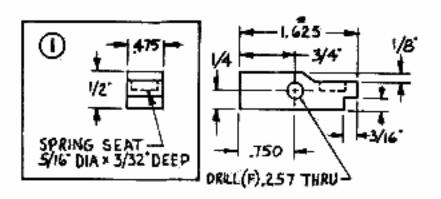
- THIS PART CAN BE MADE FROM THE SAME TUBING AS THE HOUSING (THE RADIUS WILL FIT)
- THIS PART OF (.095) FLAT STOCK HARDENED OR CASE / HARDENED AS NOTED (*)

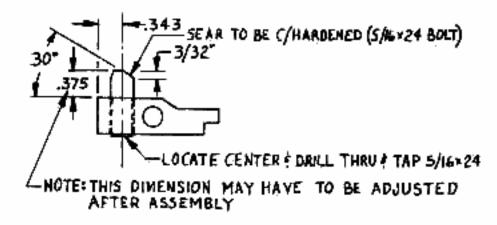


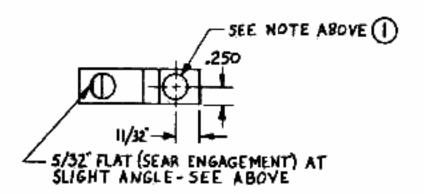


SMG PLANS SHEET No. 3

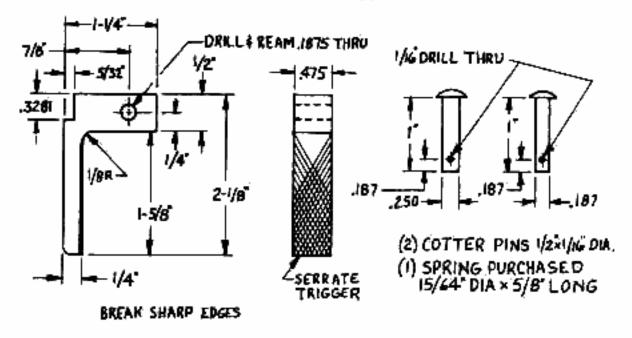
SEAR, SEAR PIVOT PINS SPRING STL MILD 1/2" = 1/2"



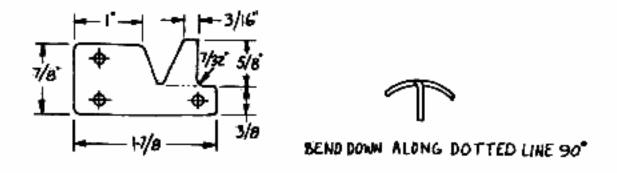




TRIGGER-MTL-ALUM 6061 FLAT SLK



E JECTOR - 1/16" THICK SHEET METAL. CAN BE OUT FROM SAME MATERIAL.
AS HOUSING, AS RADIUS MATCHES



(3) CLEARANCE HOLES FOR 6-32 SCREWS, APPROX IN THE ABOVE LOCATIONS. SCREW LENGTH FROM HEAD 1/8" LONG.

SMG PLANS SHEET No. 4

