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US ARMY WEAPONS COMMAND

RESEARCH & ENGINEERING DIRECTORATE
SMALL ARMS SYSTEMS LABORATORY



TECHNICAL REPORT

DA PROJECT NO. 1W523801A304

AMS CODE NO. 5523.11.45800.01

AUTHOR John C. Avery

REPORT NO. 69-2111 DATE July 1969

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U. S. Army Weapons Command

Rock Island Arsenal

Research & Engineering Division

Technical Report

No. 69-2111

Project No. 1W523801A304

Gun, Submachine, 9mm, "STAR" (Spain)

Ъy

John C. Avery

Individual Weapons Group

Small Arms Systems Laboratory

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ABSTRACT

The Model Z-62 "STAR" 9mm submachine gun is currently in use by the Spanish Air Force, Army, Navy, and other Government agencies. The Z-62 is the latest version of earlier z models made by "STAR" Bonifacio Echevernia, S.A. Eibst (Spain). The Z-62 is a blowback operated, selective fire, air cooled, magazine fed weapon. Weapon design is basically similar to the Z-45 submachine gun with the exception of the inertia safety and cam actuated firing pin. During testing, using 1945 vintage Canadian ammunition (116 grain projectile), a frequent failure to eject was observed. Ejection failures occurred while firing from a wooden test fixture, from a bench rest, and from the shoulder. It sight be noted that European 9mm ammunition for which the weapon was designed, carrying 124 grain projectiles, may eliminate ejection problems due to a higher delivered impulse. All other functioning cycles were observed as malfunction free, with the exception of an occasional failure to chamber. Accuracy, from a rest, was satisfactory both on semi and full automatic fire. The weapon is very difficult to control from the shoulder on automatic fire even with the moderate cyclic rate of 540 rds/min. This weapon is observed as being satisfactory for military use only through design improvements or until tested with a variety of recently manufactured 9mm ammunition, if sufficient interest prevails in further investigation of this weapon.

OBJECTIVES

To evaluate the Model Z-62 "STAR" for its military potential, design characteristics, functioning, reliability, and accuracy.

RECOMMENDATIONS

No further testing is recommended unless a sampling of the many available 9mm ammunition loadings are used for test to further determine the weapon's reliability. This should be done only if sufficient interest remains for further investigations.

Gun, Submachine, 9mm Model Z-62 "STAR" (Spain) S.N. 92759

Authority: Project Number 1W523801A304

Test Material: Gun, Submachine, 9mm, Model Z-62, "STAR" (Spain)

S.N. 92759 (figs 1 through 3)

Magazine, 30 round, 3 each

Cleaning Rod

Sling

Operator's Manual

Ammunition: Canadian* 116 grain bullet 1945 mfg. Lot #RR 137530, Boxer primed. (Actual Bullet Weight - Average - 114.9 grains).

FSTC-CW-07-02-66 - Small Arms Ammunition Identification Guide.

*During WW II, Canada manufactured 9mm x 19 cartridges which, although not showing a factory code in the headstamp, can be identified as Canadian. All of these cartridges bore a 3 x 120 headstamp with the caliber 9 at 10 o'clock, the letters "mm" at 2 o'clock and the last two digits of the year of manufacture at 6 o'clock. Canadian headstamps are not segmented.

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TECHNICAL DATA

Caliber9mm Parrabellum
Method of operationBlowback
Type of fire - open boltSelective: semi- and full automatic
Cyclic rate of fire540 rpm
Muzzle velocity, average1347.9 fps
Magazine capacity20, 30, 40 rounds
Sights Front - windage onlyBlade
Rear - non-adjustablePeep - "L" flip type
SafetyBlocks sear
Inertia SafetyPrevents accidental firing
Fluted Chamber; 14 flutesEases extraction
StockFolding
Finish, exteriorBaked enamel
EjectorFixed
ExtractorClaw type - snap over
Firing PinCam actuated
Magazine rechargingManual
Tools for disassemblyCleaning rod or cartridge; 1/8 inch punch

FIELD STRIPPING OF WEAPON

1. Disassembly

- a. Grip the buttstock rails and pull up (fig 4).
- b. Grip buttplate and pivot downward (fig 5).
- c. Pivot buttplate into locked position; swing buttstock to rear into locked position (fig 6).
 - d. Use cleaning rod or cartridge to depress recoil spring stop (fig 7).
 - e. Rotate receiver cap one quarter turn (left or right) for removal.
 - f. Remove recoil spring stop, recoil spring, and recoil spring guide (fig 8).
 - g. Retract charging handle and remove bolt (fig 9).
 - h. Remove pin at rear of magazine and trigger housing (fig 10).
- 1. Pivot magazine and trigger housing downward for removal (figs 10 and 11).
- j. Rotate barrel one quarter turn to right and remove from the rear of receiver (figs 12 through 14).
 - k. Weapon is now field stripped (fig 15).

2. Assembly

- a. Reverse order of disassembly.
- b. Barrel must be assembled to allow free passage of receiver studs (fig 14).
 - c. When folding the buttstock proceed as outlined below (figs 6 through 4):
 - (1) Pivot buttplate 45°.
 - (2) Disengage buttstock by pulling rearward and swing forward.
- (3) Locate buttplate into receiver slot and snap buttstock into locked position.

DETAILED STRIPPING OF WEAPON

1. Bolt Assembly

- a. Press on tripping lever rod to pivot firing pin forward (fig 16).
- b. Remove inertia safety-tripping lever axis pin from top of bolt (fig 17).
- c. Remove inertia safety, inertia safety spring plunger, inertia safety spring and tripping lever.
- d. Remove from the rear the firing pin, spring, tripping lever rod and inertia safety rod.
 - e. Remove extractor from the top of the bolt body.
 - f. Assemble bolt in reverse order.

2. Magazine and Trigger Housing Group (fig 18)

- a. Remove sear pin and sear by pushing forward and up.
- b. Remove sear spring guide and spring.
- c. Remove trigger pin and trigger.
- d. Remove trigger tooth pin and trigger tooth from trigger.
- e. Remove safety.
- f. Remove magazine catch. The cleaning rod can be used to squeeze ends of split pin together.
 - g. Assemble magazine and trigger housing group in reverse order.

3. Magazines (fig 19)

- a. Depress magazine floorplate catch and slides from floorplate.
- b. Remove follower spring and follower.
- c. Assemble in reverse order.

4. Receiver and Stock Group

No disassembly is recommended.

FUNCTIONING

1. Inertia Safety

The bolt incorporates an inertia safety which prevents accidental firing if the weapon is dropped on the butt or handled roughly. This safety protrudes on the left side of the bolt (fig 20) and when the bolt is forward, the inertia safety is, by spring tension, forced into its receiver slot (fig 21) which will prevent the bolt's rearward motion, except when the cocking lever is used (fig 22). The cocking lever, when used to cock the weapon, contacts the inertia safety rod which moves rearward pivoting the inertia safety clear of its receiver slot, allowing the bolts free passage rearward. This sequence occurs only during manual cocking. During actual firing, the bolt travels forward discharging the round. The inertia bar (fig 17) is pivoted forward from the impact so that while the bolt recoils, the inertia safety will not engage in its receiver slot.

2. Semi-Automatic Firing

When charging the weapon, the bolt contacts the sear (fig 23). The sear moves forward in its elongated hole and engages the trigger tooth. When the trigger's lower half moon is pulled (fig 24), the weapon will fire semi-automatically. After the bolt has passed the sear, the trigger spring and plunger force the sear rearward, back into position to engage the bolt during counter recoil. The bolt continues forward seating the round in the chamber, and firing occurs when the firing pin rod contacts the barrel breech, thus pinoting the firing pin forward to detonate the primer (fig 16). This feature prevents premature detonation. As the bullet leaves the cartridge mouth, the gases are forced into the flutes in the fluted chamber (fig 25), which facilitates ease of extraction. The cartridge case acts as a gas piston forcing the bolt rearward; the ejector (fig 26) which is just behind the magazine well is cleared by a groove on the bolt's underside (fig 27). The bolt continues rearward until the recoil spring is compressed when recoil terminates. The recoil spring, through counter recoil, forces the bolt forward until it is caught by the secr which holds it in the open position, awaiting the gunner to release the trigger, readying the weapon for the next shot.

3. Automatic Firing

For automatic firing, the trigger's <u>upper</u> half moon is pulled (fig 28), allowing the trigger to move rearward in its elongated hole (fig 28) pivoting the sear from the bolt's path until the trigger is released.

TEST RESULTS

- 1. With weapon in wooden test fixture, (fig 29), the following tests were performed.
- a. 190 rounds were fired in single rounds and sporatic bursts to safety certify the weapon prior to testing. Ten failures to eject occurred during this test.
- b. Eleven rounds were fired to obtain muzzle velocity with lumiline screens set at 5 feet and 20 feet from muzzle. Average velocity was 1347.9 fps. See table I for individual velocities.
- c. Three twenty round bursts were fired to obtain cyclic rate. Average cyclic rate was 540 rpm.
- 2. Ejection pattern was recorded on high speed film (1000 frames/sec) while firing 10 round bursts as follows:
 - a. Weapon vertical in wooden test fixture, films #1-4.
 - b. Weapon horizontal 90° to the right, Film #5.
 - c. Weapon horizontal 90° to the left, Film #6.
- 3. Malfunction test consisting of five (5) twenty round bursts was fired from bench rest and two malfunctions occurred (Table II). On the first burst, the fourth spent cartridge failed to clear the weapon and was lodged between the bolt face and barrel breech. The second malfunction occurred on the third burst when a round failed to chamber, lodging between the bolt face and barrel breech. At each malfunction, the weapon was cleared and firing continued.
- 4. Weapon accuracy was determined by firing from a bench rest at targets located 25 yards down range. Three ten-round, single fire targets and four five-round automatic fire targets were recorded. Target data is shown in Table III.
- 5. One ten round burst was fired from the shoulder to determine climbing pattern. The fifth spent cartridge failed to eject and lodged between the bolt and barrel breech. The spread of the five rounds was five feet.
- 6. Cyclic rate retards shortly after an automatic burst has begun. Since this weapon is blowback operated, it is predictable that cyclic rate would greatly vary when firing the weapon overhead or downward.

FEATURES, POSSIBLE IMPROVEMENTS

- 1. Barrel cannot be removed unless weapon is completely field stripped.
- 2. No dust cover for ejection port (fig 30).
- 3. Buttstock hinges too difficult to operate (figs 4, 5 and 31).
- 4. Stock may injure shooter's cheek.
- 5. Hex allen screw in pistol grip, could be replaced to eliminate the need for special allen wrench.
- 6. Ejector not removable from housing (fig 6).
- 7. Cocking lever not removable from receiver (fig 32).
- 8. Sling interferes with sight picture front clip is a poor method of attachment (fkg 33).
- 9. Rear swivel could be more strategically placed (fig 7).
- 10. Cleaning rod and oiler could be incorporated in weapon.
- 11. Serial number is on magazine and trigger housing. This would cause a change in serial numbers when replacing the housing.
- 12. Cleaning rod finger loop too small.

APPENDIX I.
TEST DATA AND WEAPON DATA

Total rounds Time for Velocity		
fired	Time for 15 ft/sec	Velocity ft/sec
1	0.011046	1358.0
2	0.011119	1349.0
3	0.011094	1352.1
4	0.011324	1324.0
5	0.011288	1328.8
6	0.011157	1344.4
7	0.010751	1395.2
8	0.011043	1358.4
9	0.011332	1323.7
10	0.011321	1325.0
11	0.010956	1369.1

^{*}Serial number 92759

9mm Ammunition, Lot number RR-137530

Table II. Malfunction Test (Fired From Bench Rest)*

Target Number	Number of rounds fired Semi- Automatic Automatic	Diameter in inches of Group
1	20	6.0000
2	20	6.1250
3	20	7.0000
4	20	5.5000
5	20	5.6250

^{*}Distance of 25 yards.

Table III. Accuracy Test (Fired from Bench Rest*).

Target Number		rds fired Automati		Furthest shot fr point of aim (inches)	com Closest shot from point of aim (inches)
1	10		3.3750	1.6875	0.3750
2	10		2.8125	2.3125	0.4375
3	10		3.0000	2.3125	0.1250
4		5	4.1875	2.6250	1.5000
5		5	4.4375	4.1250	0.7500
6		5	11.1250	11.3750	1.4375
7		5	4.5000	4.1875	0.3125

^{*}Distance of 25 yards.

WEIGHTS IN POUNDS

30 rd magazine empty	0.472
20 rd magazine empty	0.357
Cleaning rod	0.141
Weapon w/o magazine with sling	6.128
Weapon w/30 magazine empty with sling	6.600
Weapon w/20 magazine empty with sling	6.485
Bolt w/parts	1.005
Recoil spring, guide, plug	0.558
Guide, recoil spring	0.406
Barrel	0.606
Barrel Receiver w/buttstock, cocking handle, sights	0.606 2.485
Receiver w/buttstock, cocking handle, sights	2.485
Receiver w/buttstock, cocking handle, sights Magazine frame and trigger housing, assembled	2.485 1.072
Receiver w/buttstock, cocking handle, sights Magazine frame and trigger housing, assembled Sling w/receiver cap	2.485 1.072 1.053
Receiver w/buttstock, cocking handle, sights Magazine frame and trigger housing, assembled Sling w/receiver cap Weapon w/full 30 rd magazine	2.485 1.072 1.053 7.414 approx.
Receiver w/buttstock, cocking handle, sights Magazine frame and trigger housing, assembled Sling w/receiver cap Weapon w/full 30 rd magazine Weapon w/full 20 rd magazine	2.485 1.072 1.053 7.414 approx. 7.028 approx.

MEASUREMENTS IN INCHES

Weapon length, assembled, w/stock folded	19.200
Weapon length, assembled, w/stock extended	27.800
Height of weapon w/o magazine	6.000
Width of weapon	1.4375
Barrel, including chamber, length	7.874
Bolt, assembled, length	4.830
Recoil spring, free length	14.510
Recoil spring guide, length	2.101
Magazine and trigger housing, length	7.500
Receiver plug, length	1.025
Buttplate dimensions	1.5625 wide, 4.500 long
Barrel dimensions	6 grooves RH twist 1.000
	to 16.00
Sling, leather	to 16.00 1.000 wide, 36.000 long
Sling, leather Cleaning rod, diameter	
	1.000 wide, 36.000 long
Cleaning rod, diameter	1.000 wide, 36.000 long 0.2046
Cleaning rod, diameter Cleaning rod, length, one piece	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875
Cleaning rod, diameter Cleaning rod, length, one piece Magazine, length	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875 30 rd 7.750
Cleaning rod, diameter Cleaning rod, length, one piece Magazine, length Firing pin protrusion	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875 30 rd 7.750 0.055
Cleaning rod, diameter Cleaning rod, length, one piece Magazine, length Firing pin protrusion Muzzle, diameter	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875 30 rd 7.750 0.055 0.613
Cleaning rod, diameter Cleaning rod, length, one piece Magazine, length Firing pin protrusion Muzzle, diameter Receiver, diameter	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875 30 rd 7.750 0.055 0.613 1.500
Cleaning rod, diameter Cleaning rod, length, one piece Magazine, length Firing pin protrusion Muzzle, diameter Receiver, diameter Bolt, diameter	1.000 wide, 36.000 long 0.2046 13.8750 20 rd 5.875 30 rd 7.750 0.055 0.613 1.500 1.365

MEASUREMENTS IN INCHES-(Continued)

Recoil spring stop disc.	1.350
Receiver cap, diameter	0.671
Striker, diameter	0.0775
Barrel, breech, diameter	1.350
Travel of recoilling parts	5.000
Bolt overcock	2.625
Sight radius	14.000
Peep hole diameters (See fig 34)	Diameter for 100 yd 0.0625 Diameter for 200 yd 0.0937
Distance from line of sight to boreline	1.125
Ejector	1.000 from bolt face when cocked
Location of ejector from breech	1.750
Trigger pull	8.000 pounds semi approx. 20.000 pounds full approx.

Chamber Cast Dimensions of Barrel Assembly* (Inches)

Flutes, total number	14
Flutes, diameter	0.3897
Grooves, diameter	0.3842
Taper of flutes	0.0079 to 0.4250
Length of flute ahead of chamber mouth	0.0974
Length of flute to fade-out	0.4418
Flutes, width	0.0232
Grooves, width	0.0618
Grooves dia at tool mark	0.3921
Barrel groove diameter	0.3584
Barrel land diameter	0.3624

*Measurements by R. Perry, QA Illustrated in figure 35

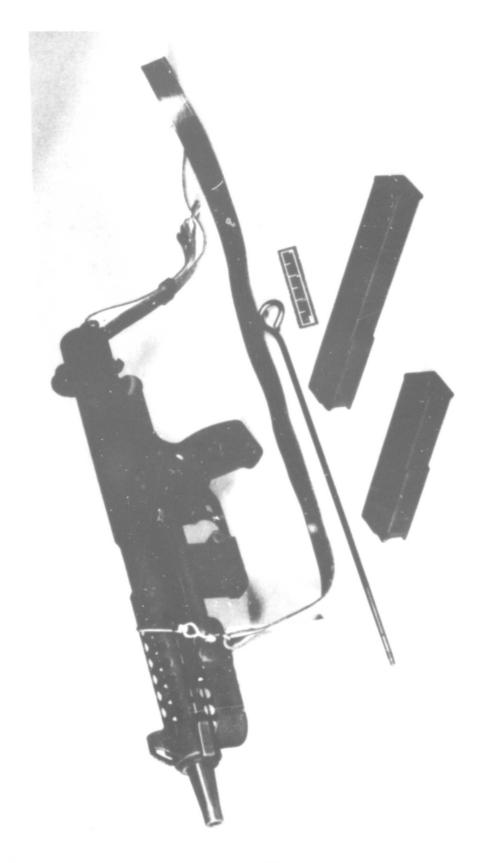


Figure 1. Left side view of 9-MM Submachine Gun Model Z-62 with stock folded.

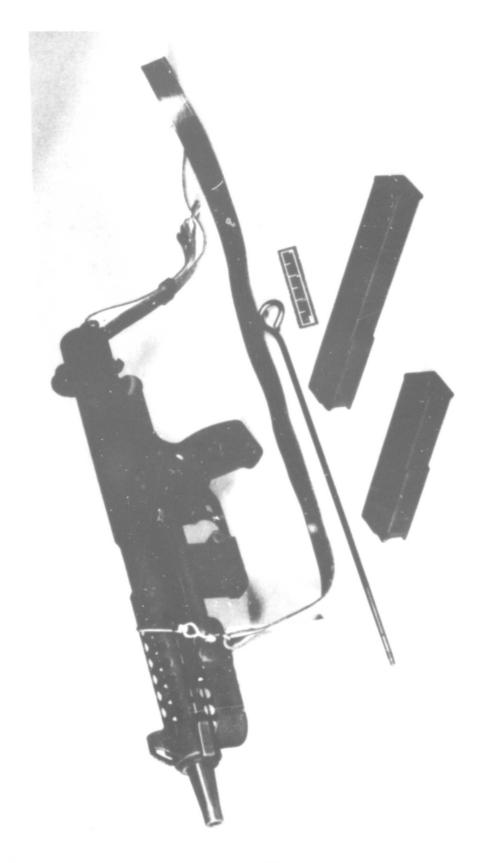


Figure 1. Left side view of 9-MM Submachine Gun Model Z-62 with stock folded.

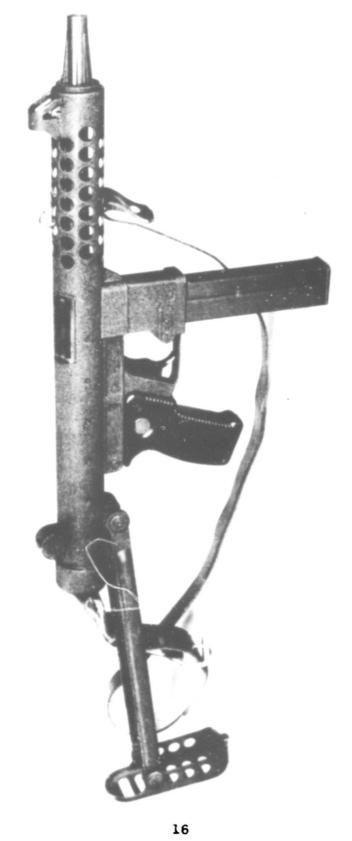
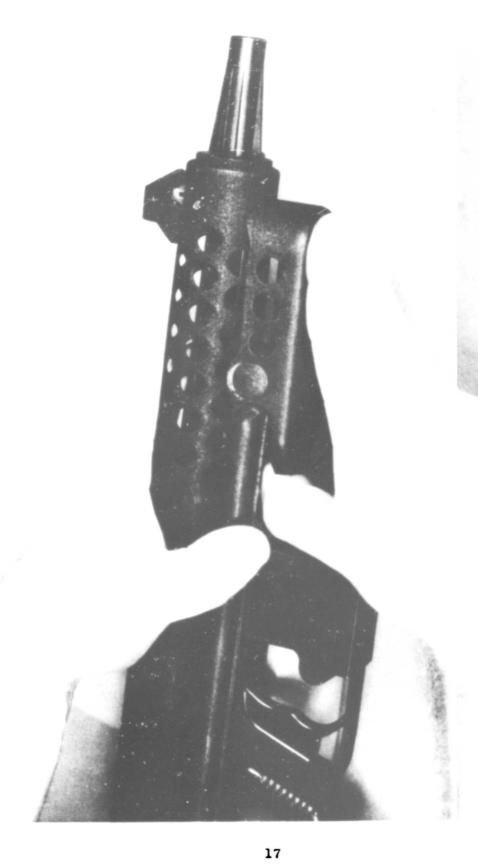
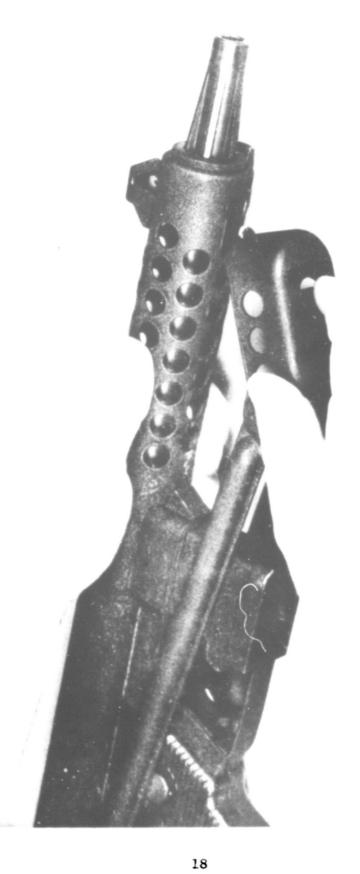
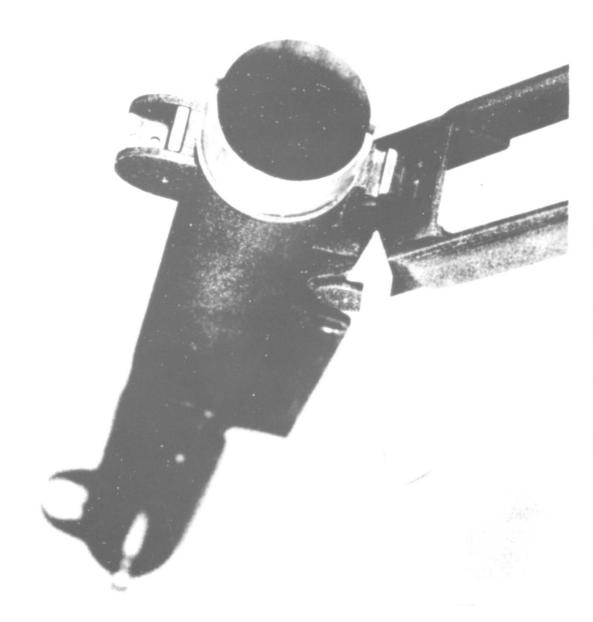


Figure 3. Right side view of 9-MM Submachine Gun Model z-62 with stock extended.







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Figure 7. Depressing recoil spring stop.

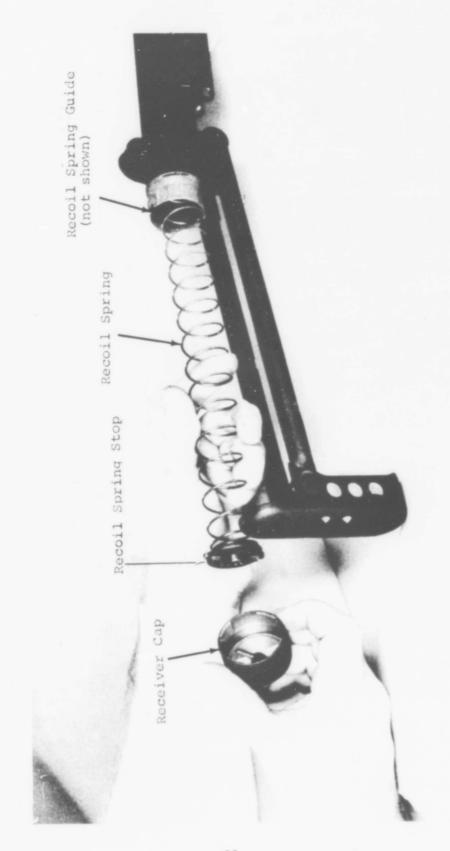


Figure 8. Removal of receiver cap, recoil spring stop, recoil spring, and recoil spring guide.

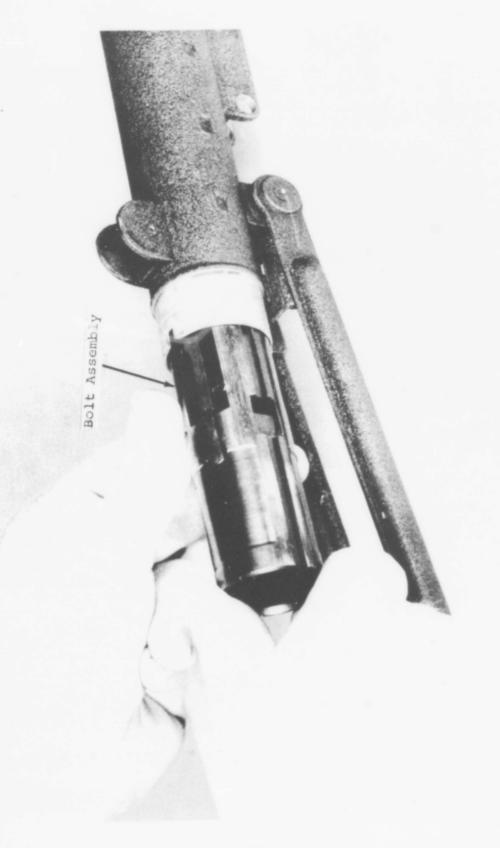


Figure 9. Removal of bolt assembly.



Figure 10. Disassembly of magazine and trigger housing.

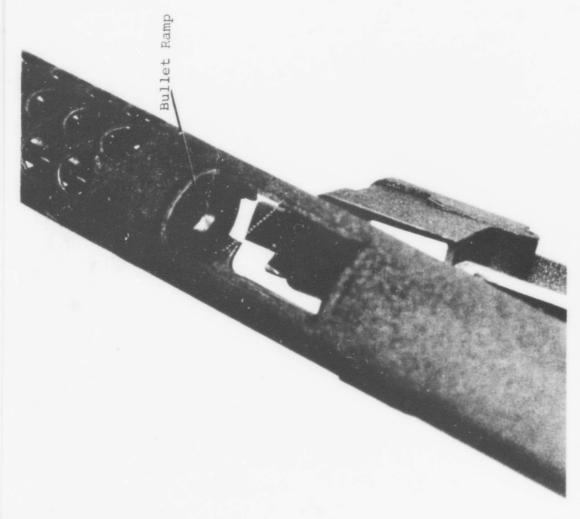


Figure 11. Removal of Magazine Housing from lock groove in barrel.

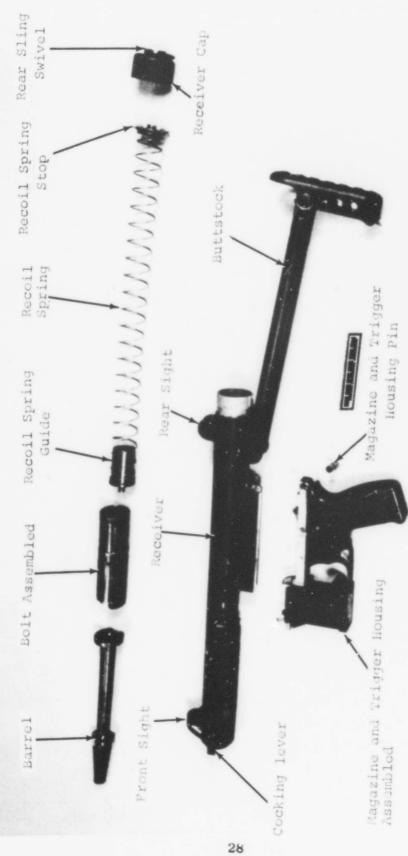
Figure 12. Barrel installed on receiver,



Figure 13. Barrel rotated one quarter to the right for removal.



Figure 14. Removal of barrel from receiver.



Weapon field stripped. Figure 15.

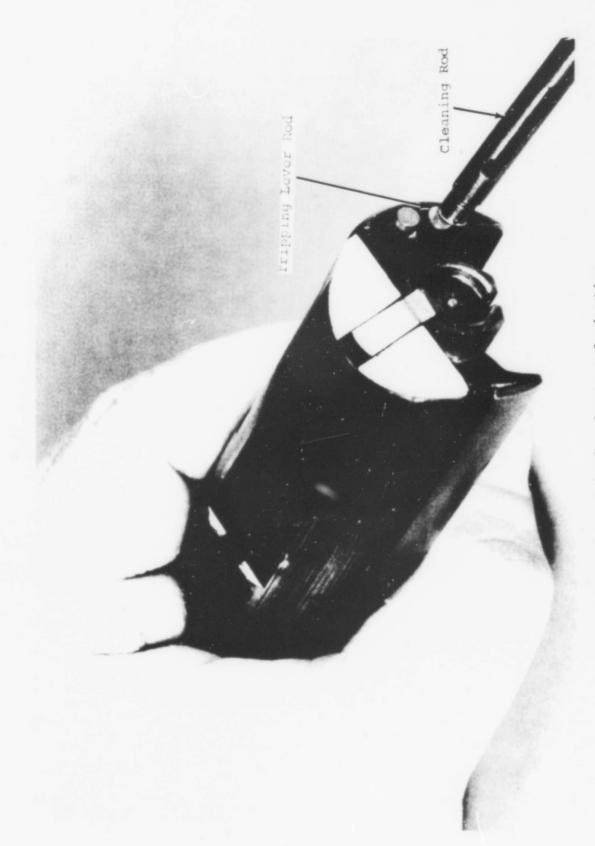


Figure 16. Tripping lever rod pivoting firing pin forward.



Figure 17. Bolt disassembled.



Magazine and trigger housing group disassembled. Figure 18.

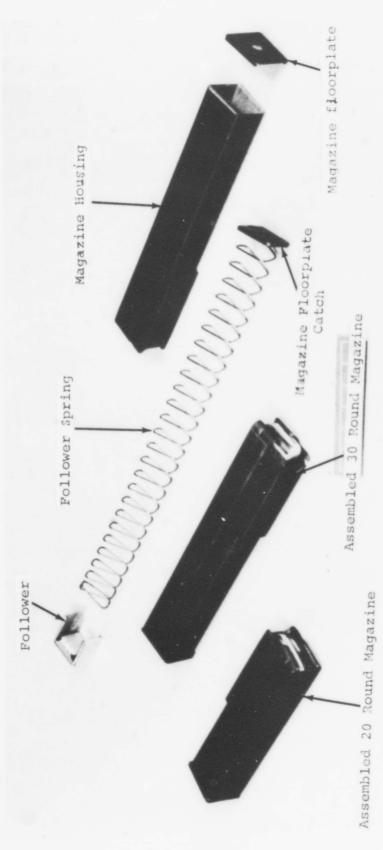


Figure 19. Magazine assemblies and components (30 round magazine disassembled),

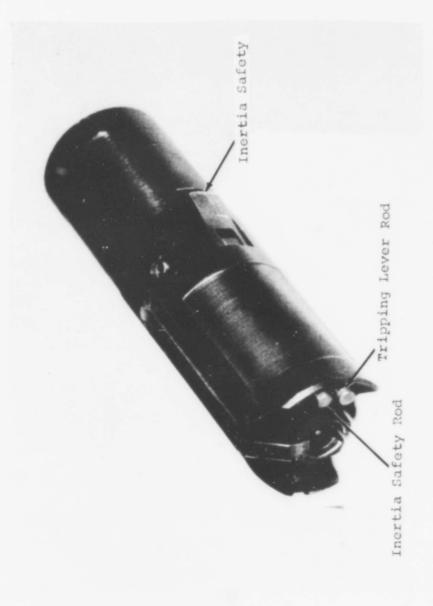
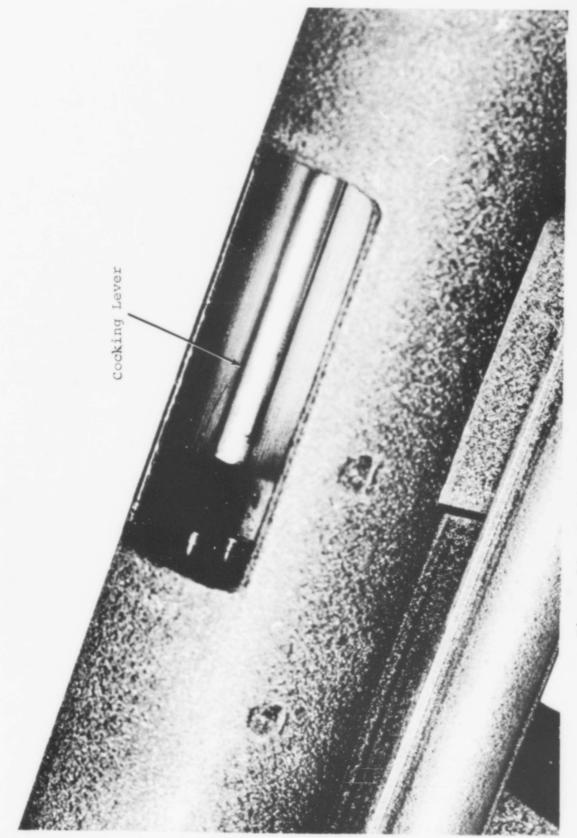


Figure 20, Bolt showing inertia safety, inertia safety rod and tripping lever,



Figure 21. Inertia safety slot in receiver.



Bigure 22. Cocking lever before engagement of inertia safety rod.

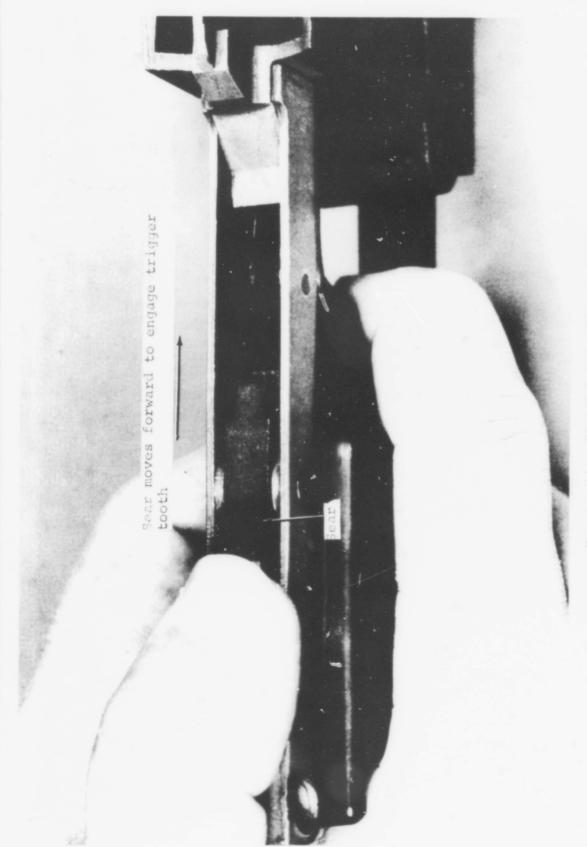
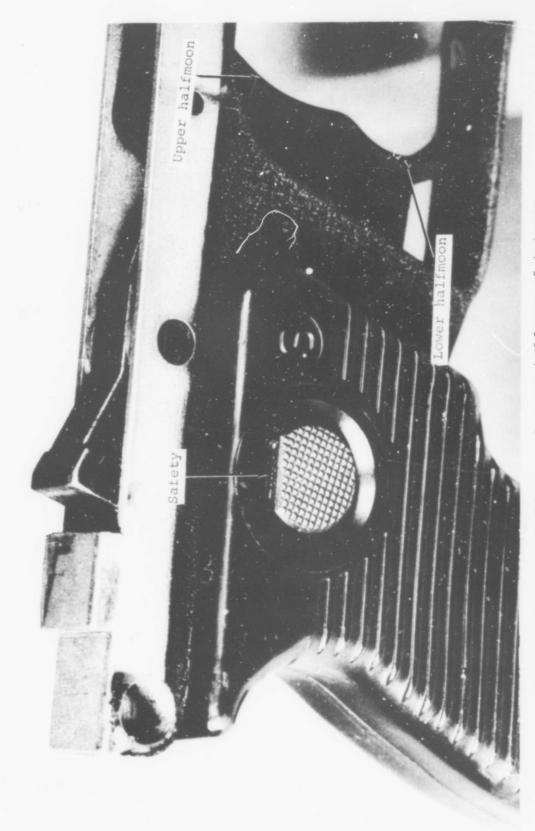


Figure 23, Trigger and sear in semiautomatic firing position,



Lower halfmoon and upper halfmoon of trigger. Figure 24.

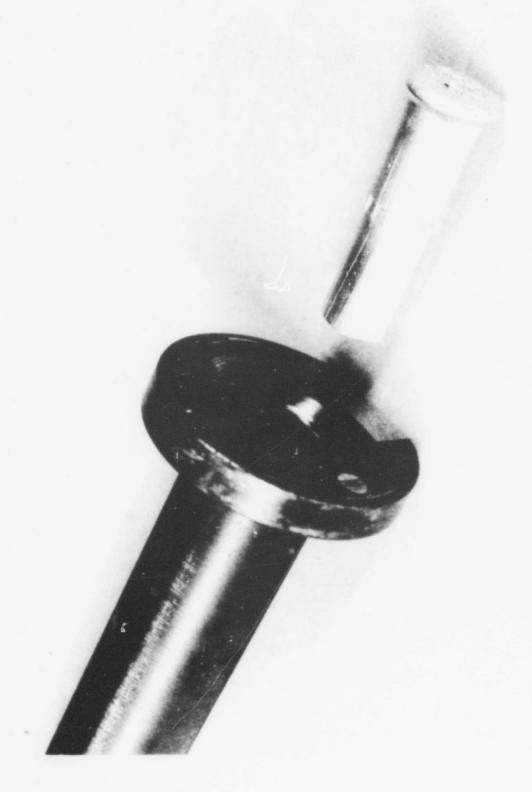


Figure 25. Barrel breech and chamber casting.

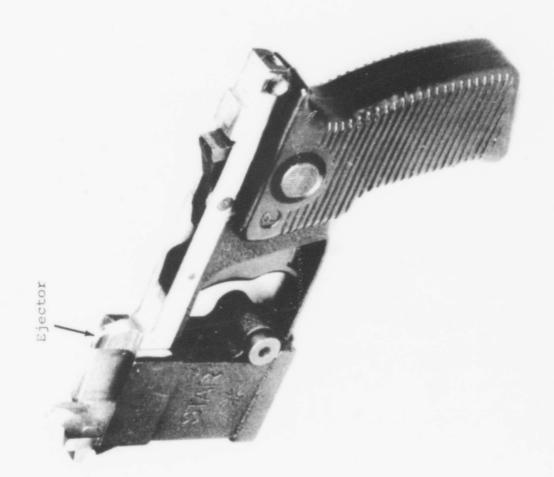


Figure 26. Magazine and trigger housing.

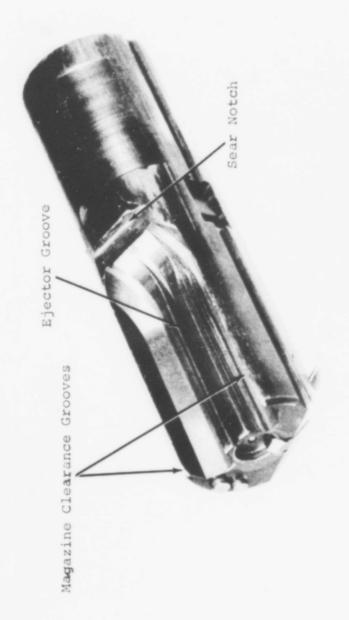


Figure 27. Underside of bolt showing sear notch, ejector and magazine clearance grooves.

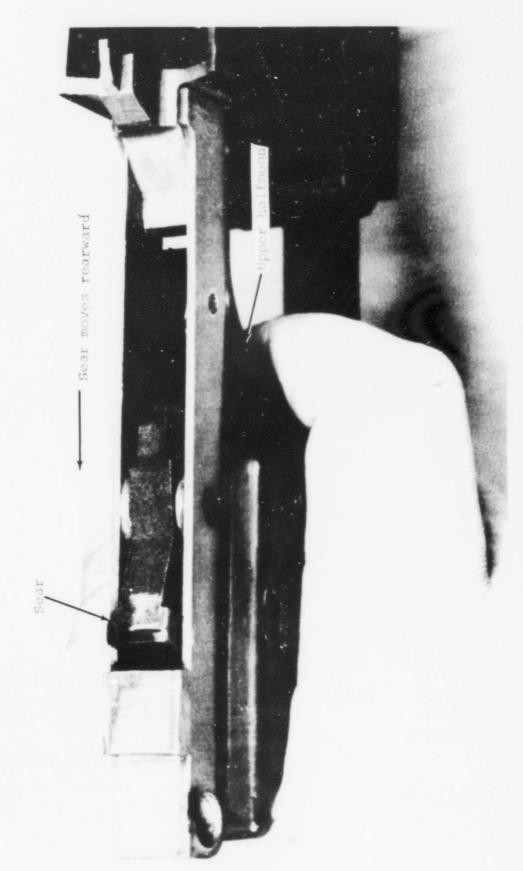


Figure 28. Trigger and sear in automatic firing position.

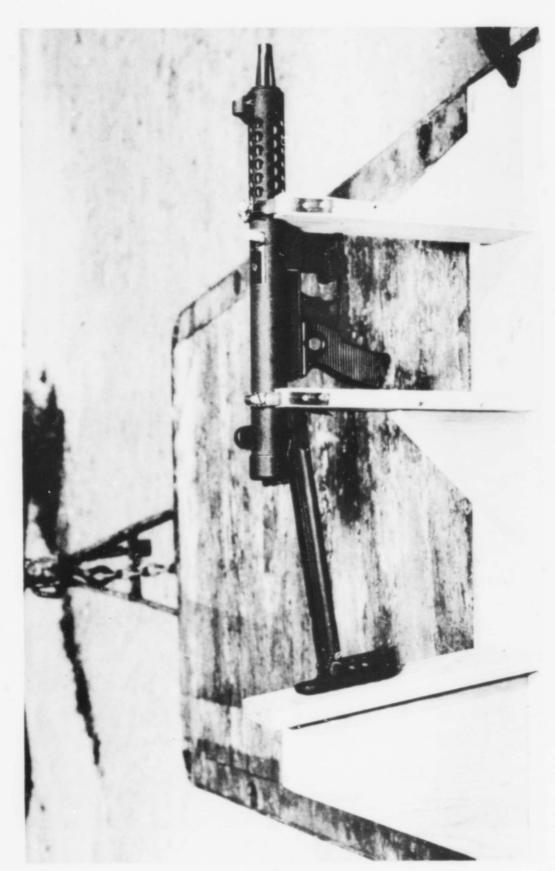


Figure 29. Wooden test fixture with weapon mounted.

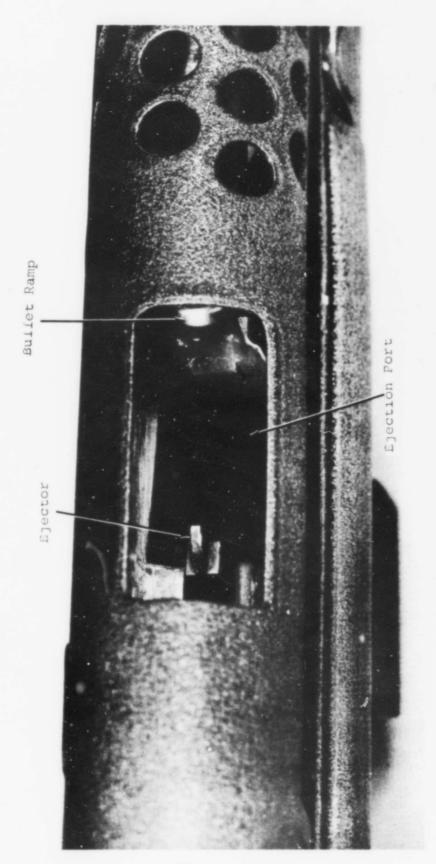


Figure 30. Ejection port, ejector and bullet ramp.

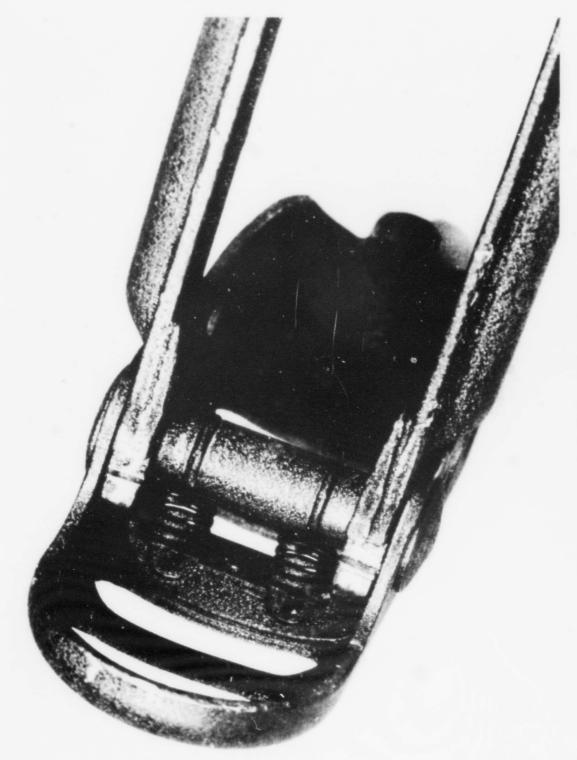
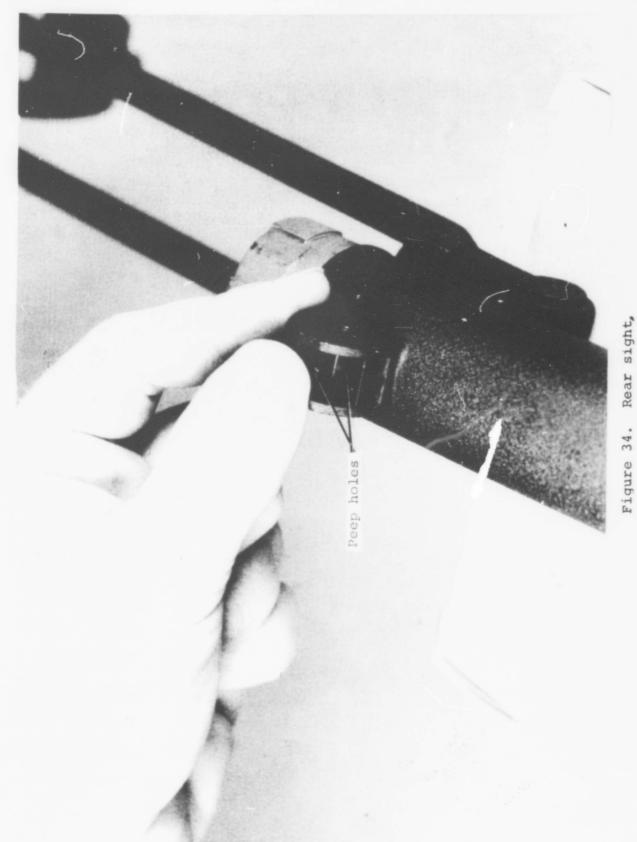


Figure 31. Buttplate and springs.



Figure 32. Cocking lever retainer.





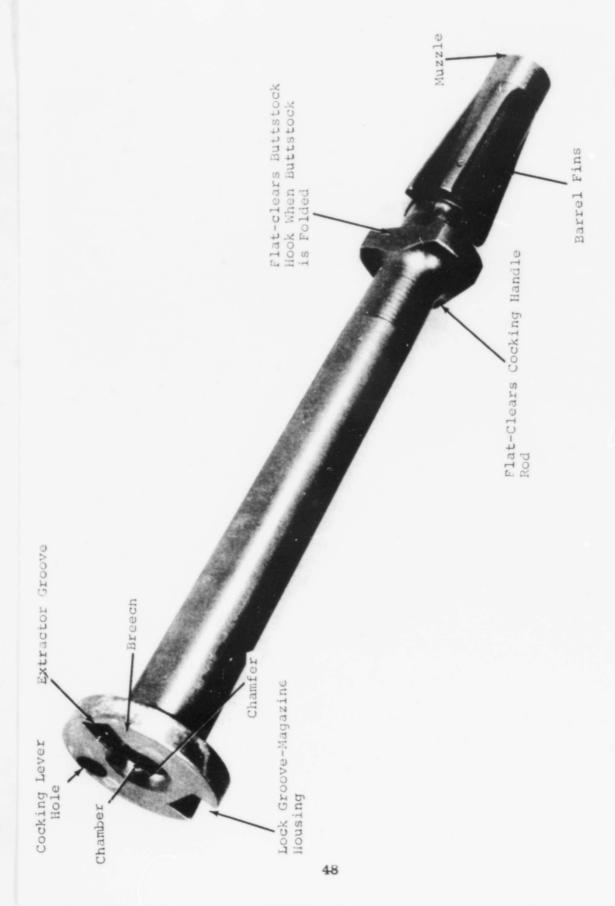


Figure 35. Barrel

DOCUMENT CONT	Security Classification			
DOCUMENT CONTROL DATA - R & D (Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)				
	ennotation must be a			
Individual Weapons Section, AMSWE-RES-I		Ze. REPORT SECURITY CLASSIFICATION		
			assified	
Rock Island Arsenal, Rock Island, I	llinois	26. GROUP		
		L		
3 REPORT TITLE				
CUN CUDMACUTAR AND HEMARI (CRASS)				
GUN, SUBMACHINE, 9MM "STAR" (SPAIN)				
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Security Classification

UNCLASSIFIED
Security Classification ROLE ROLE Spanish submachine gun STAR submachine gun 9mm submachine gun Submachine gun (Spanish)

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