

TECHNICAL MANUAL

**SUPPLEMENTARY OPERATION, MAINTENANCE AND REPAIR,
WITH ILLUSTRATED PARTS BREAKDOWN**

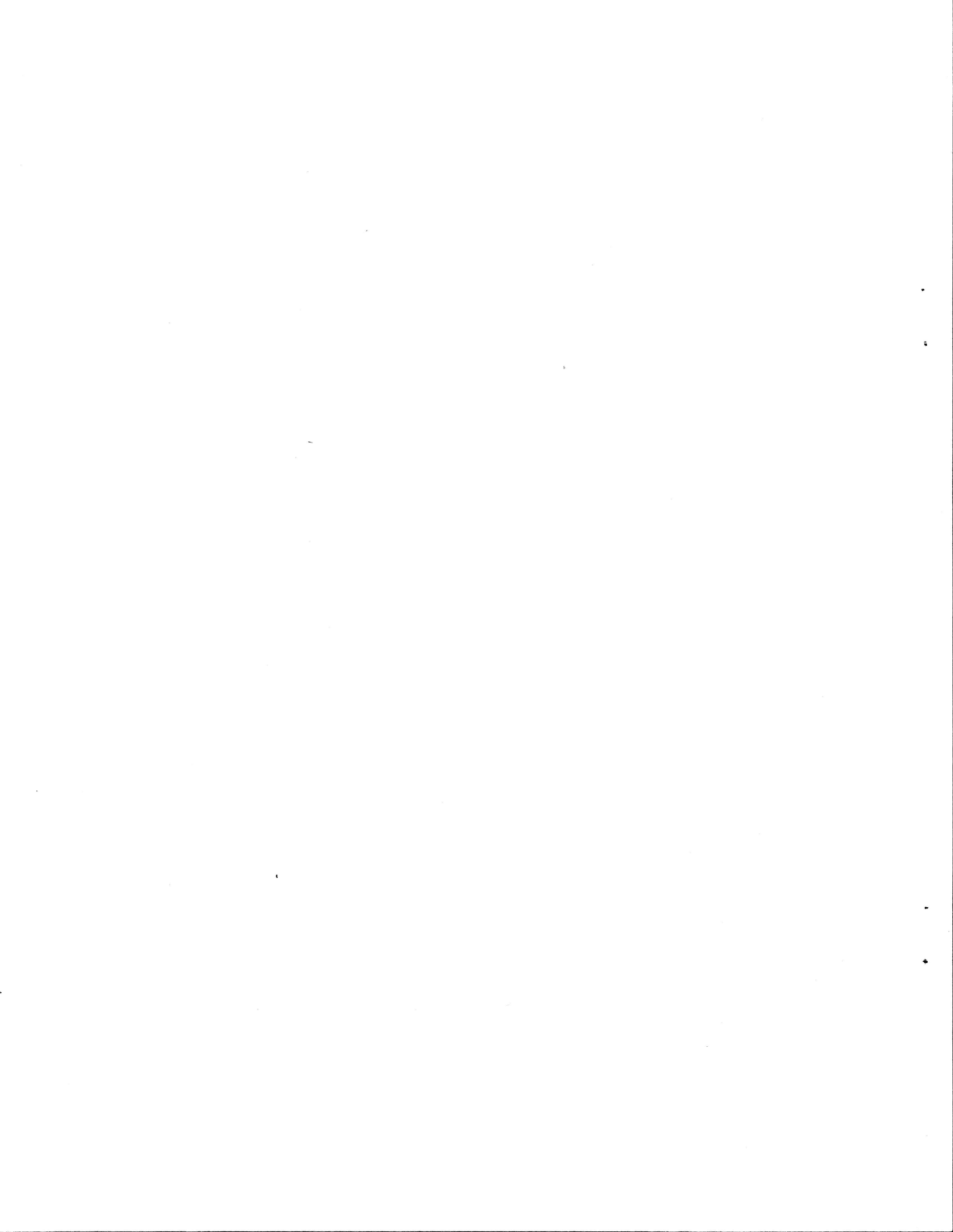
**SUBMACHINE GUN, 5.56-MM
GAU-5A, GAU-5A/A AND
GUU-5P**

COLT IND.

THIS MANUAL IS INCOMPLETE WITHOUT T.O. 11W3-5-5-1

PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

15 JULY 1977



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INTRODUCTION

PURPOSE

This technical manual provides pertinent information for guidance of personnel responsible for the operation of and maintenance on the Model GAU-5A, GAU-5A/A and GUU-5P, 5.56-MM submachine gun. Operation and maintenance procedures relating to the submachine gun that are identical to those for the M-16 rifle are contained in T.O. 11W3-5-5-1 and will be so referenced in this manual.

SCOPE

This technical manual contains information divided into six sections as follows:

Section I - Description.

This section contains general information on description and characteristics of the submachine gun. It also contains some data on the basic items of issue.

Section II - Operating Instructions.

This section contains information on preparing the weapon for use, control mechanisms peculiar to this weapon, and general operational procedures.

Section III - Maintenance Instructions.

This section contains information on cleaning and lubrication, preventive maintenance, troubleshooting, inspection, disassembly and assembly, repair and replacement. Included is a list of tools and equipment utilized in performing maintenance on and necessary for operation of the submachine gun.

Section IV - Ammunition.

This section contains information on types of ammunition used with the submachine gun.

Section V - Destruction of Material to Prevent Enemy Use.

This section provides procedures for destruction of material to prevent use by the enemy.

Section VI - Illustrated Parts Breakdown.

This section contains a parts list and an illustrated breakdown of those parts peculiar to the submachine gun, which are necessary for support of the equipment.

SAFETY PRECAUTIONS

Personnel involved in operation and maintenance on the submachine gun shall observe standard safety precautions when handling the weapon.

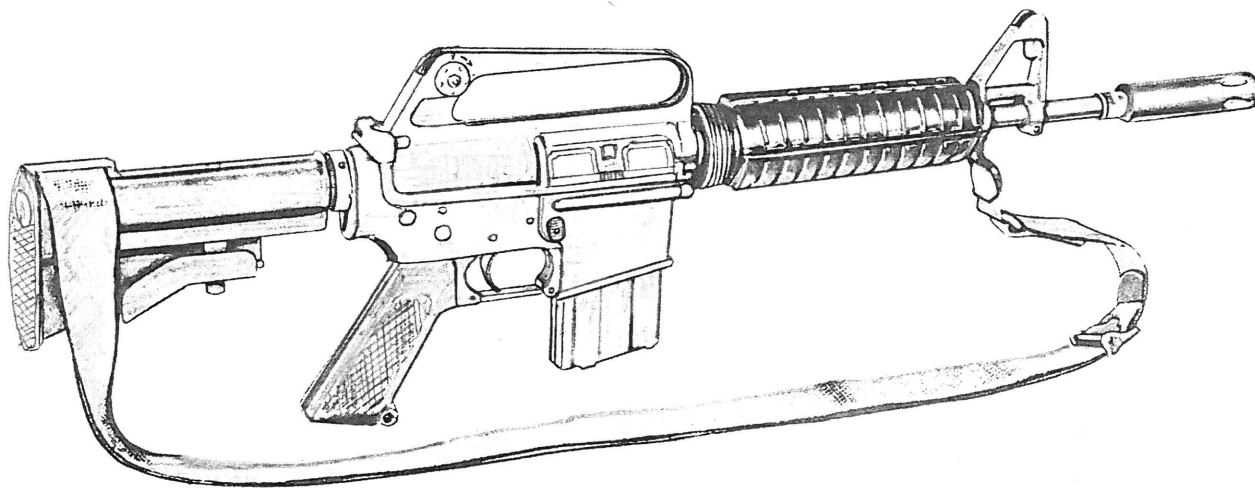


Figure 1-1. Submachine Gun, 5.56-MM, GAU-5A, GAU-5A/A and GUU-5P.

SECTION I DESCRIPTION

1-1. GENERAL.

1-2. The information contained in this section provides descriptive material concerning the submachine gun, including basic items of issue. Data in this and other sections should be utilized in conjunction with T.O. 11W3-5-5-1.

1-3. DESCRIPTION.

1-4. The submachine gun (see figure 1-1) is similar to the M-16 rifle; however, the submachine gun has a shorter barrel and handguard, a telescoping butt stock, and a different type flash suppressor.

1-5. LEADING PARTICULARS.

1-6. Descriptive data applicable to the submachine gun is contained in table 1-1. For additional data on the submachine gun, refer to T. O. 11W3-5-5-1.

Table 1-1. Leading Particulars

<u>Weight</u>	GAU-5A/A	GAU-5A	GUU-5P
Empty	6.1 pounds	5.6	5.9
Loaded (20 round magazine)	6.8 pounds	6.3	6.6
<u>Length</u>			
Stock closed	29.7 inches	28	30.1
Stock extended	33.0 inches	31.25	33.4
Barrel	11.5 inches	10	14.5
Barrel w/flash suppressor	15.0 inches	13.5	14.9
<u>Firing Characteristics</u>			
Muzzle velocity	2770 feet per second		
Cyclic rate of fire	650-900 rounds per minute		

1-7. BASIC ISSUE ITEMS.

1-8. The major items of equipment and material which are requisitioned for initial issue are listed below.

Table 1-2. Items of Issue

FIGURE NO.	MODEL NUMBER	DESCRIPTION
1-1	GAU-5A GAU-5A/A GUU-5P	SUBMACHINE GUN, 5.56-MM Composed of: 1 - SUBMACHINE GUN, 5.56-MM: w/magazine assembly (20 cartridge capacity) and Sling, Small Arms (7149749)

NOTE

The 40-MM grenade launcher, XM148, can be used in conjunction with the GAU-5A/A submachine gun. Information pertaining to the XM148 grenade launcher is contained in T.O. 11W3-5-5-1, Chapter XII.

SECTION II OPERATING INSTRUCTIONS

2-1. GENERAL.

2-2. This section contains instructions for servicing weapon upon receipt, an explanation of control mechanisms peculiar to the submachine gun and operation of the submachine gun.

2-3. SERVICES UPON RECEIPT OF MATERIAL.

2-4. The submachine gun is packed ready for use upon receipt.

2-5. SERVICING WEAPON.

1. Remove submachine gun from container and remove protective paper and paper bore tube.

2. Wipe exterior of weapon with a clean cloth, then run a clean dry patch through bore to remove oil and dirt.

2-6. CONTROL MECHANISMS.

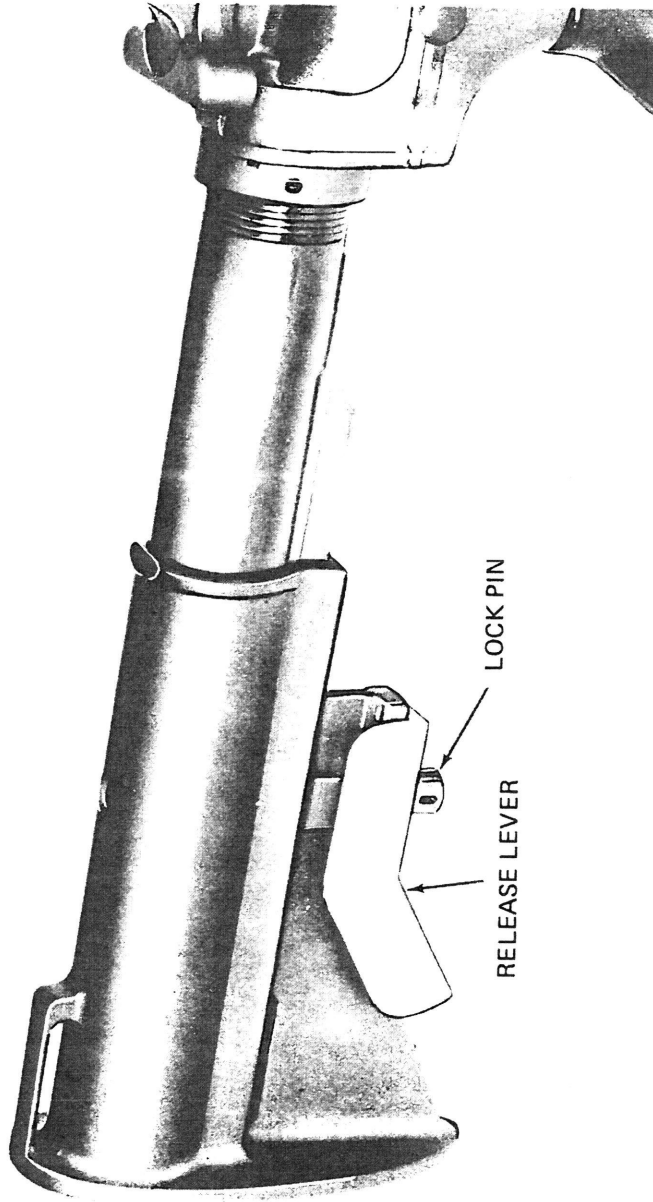
2-7. Two control mechanisms, a release lever and lockpin, are peculiar to the submachine gun. The release lever is a mechanism utilized to extend and close the stock or remove the stock from the receiver extension. The lockpin works in conjunction with the release lever and holds the stock in the extended or closed position. (See figure 2-1.)

2-8. Refer to T. O. 11W3-5-5-1, figure 3-2 for other control mechanisms common to the M-16 rifle.

2-9. OPERATION.

2-10. Refer to TO 11W3-5-5-1, Chapter III for operating instructions for the submachine gun.

2-11. Refer to TO 11W3-5-5-1, section V for operating instructions for firing blank cartridges.



SECTION III MAINTENANCE INSTRUCTIONS

3-1. GENERAL.

3-2. This section contains a list of tools and equipment necessary for maintenance of the submachine gun, instructions for cleaning and lubrication, preventive maintenance, troubleshooting, inspection, disassembly and assembly, including repair and replacement.

3-3. TOOLS AND EQUIPMENT.

3-4. For tools and equipment used with and peculiar to the submachine gun, see table 3-1 and figure 3-1.

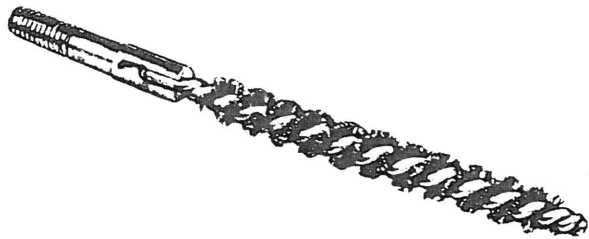
3-5. Additional tools and equipment, that are applicable to both the M-16 rifle and the submachine gun, are listed in T.O. 11W3-5-5-1, chapter IX.

Table 3-1. Tools and Equipment

FIGURE NO.	DESCRIPTION	PART NUMBER	STOCK NUMBER
3-1	BRUSH, CLEANING, SMALL ARMS (bore)	11686340	1005-903-1296
	BRUSH, CLEANING, SMALL ARMS (chamber)	8432358	1005-999-1435
	CASE, LUBRICANT	7790995	1005-791-3377
	MAGAZINE ASSEMBLY, aluminum (20 cartridge capacity)	62103	1005-056-2237
	ROD, CLEANING, SMALL ARMS (M11E3)	8436777	1005-089-3994
	SLING, SMALL ARMS	7149749	1005-714-9749
	WRENCH, SPANNER	8139468	5120-596-4005

3-6. CLEANING AND LUBRICATION.

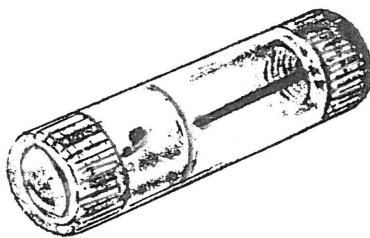
3-7. Follow the procedures listed in T. O. 11W3-5-5-1, paragraphs 3-5 through 3-6, 3-24 through 3-25, and 8-10 through 8-12; however, in place of PL special lubricating oil and rifle grease (lubriplate) for lubricating the submachine gun, use semifluid lubricating oil, Specification MIL-L-46000, (FSN 9150-889-3522).



Small Arms Cleaning Brush (Bore)



Small Arms Cleaning Brush (Chamber)

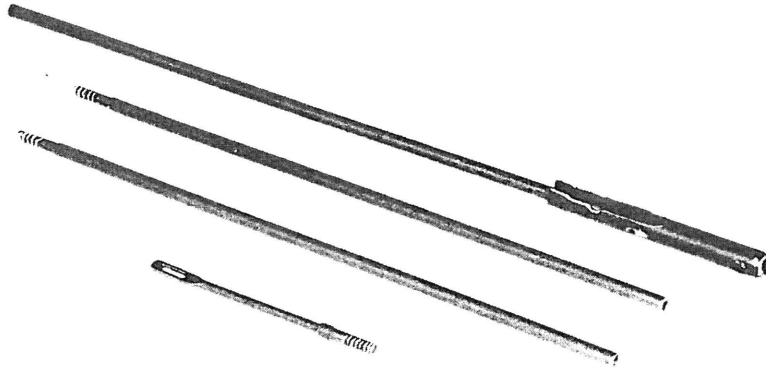


Lubricant Case

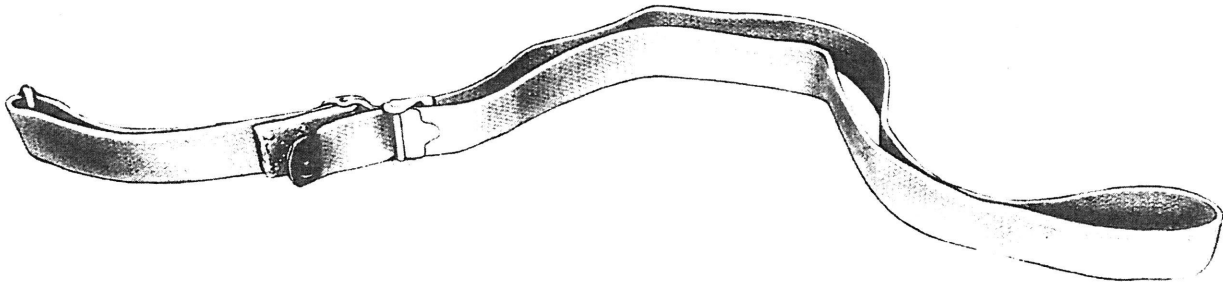


Magazine Assembly

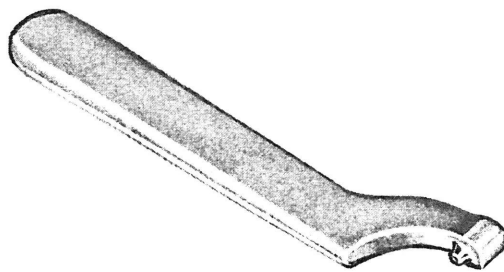
Figure 3-1. - Tools and Equipment (Sheet 1 of 2)



Small Arms Cleaning Rod (M11E3)



Sling, Small Arms



Spanner Wrench

Figure 3-1. Tools and Equipment (Sheet 2 of 2)

T.O. 11W3-5-5-1-1

3-8. Clean slides of extended stock and receiver extension and apply a small amount of semifluid lubricating oil, Specification MIL-L-46000.

3-9. PREVENTIVE MAINTENANCE.

3-10. Follow the procedures listed in T.O. 11W3-5-5-1, paragraphs 4-1 through 4-6 and table 4-1, for preventive maintenance on the submachine gun.

3-11. TROUBLESHOOTING.

3-12. Follow the procedures listed in T.O. 11W3-5-5-1, paragraphs 8-1 through 8-7 and table 8-1. See table 3-2 for troubleshooting procedures peculiar to the submachine gun.

Table 3-2. Troubleshooting

MALFUNCTION	PROBABLE CAUSE	CORRECTIVE ACTION
Flash suppressor	Excessive carbon buildup.	Clean with bore brush and bore cleaner and wipe dry.
Stock butt sliding	Sand, dirt and foreign matter which prevent sliding of stock.	Clean and dry.

3-13. INSPECTION.



3-14. Refer to T.O. 11W3-5-5-1, paragraph 3-26, for function check and to chapter VII, paragraphs 7-1 through 7-16 and chapter VIII, paragraphs 8-13 and 8-18 for inspection of the submachine gun.

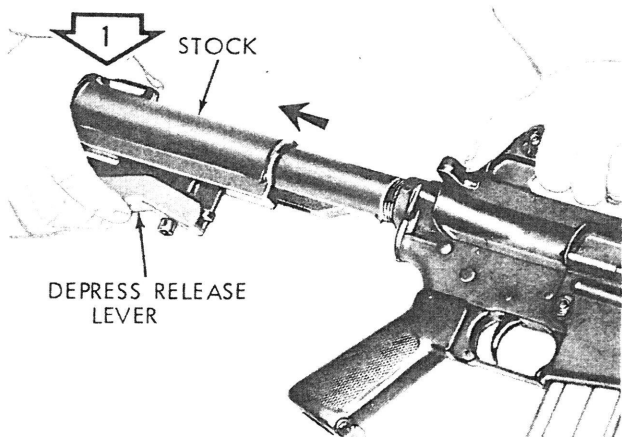
3-15. Additional inspections are as follows:

1. Check functioning of stock to make certain it extends and closes freely.
2. Check release lever for proper functioning.

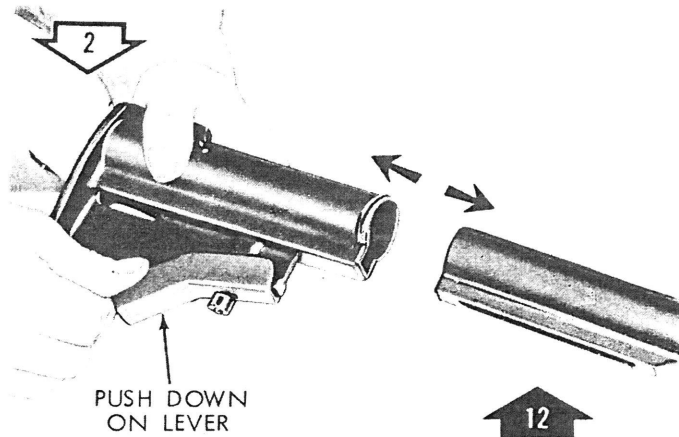
3-16. DISASSEMBLY AND ASSEMBLY.

3-17. Follow the procedures listed in T.O. 11W3-5-5-1, paragraphs 3-24, 3-25, 8-8 and 8-9 for disassembly and assembly of the submachine gun.

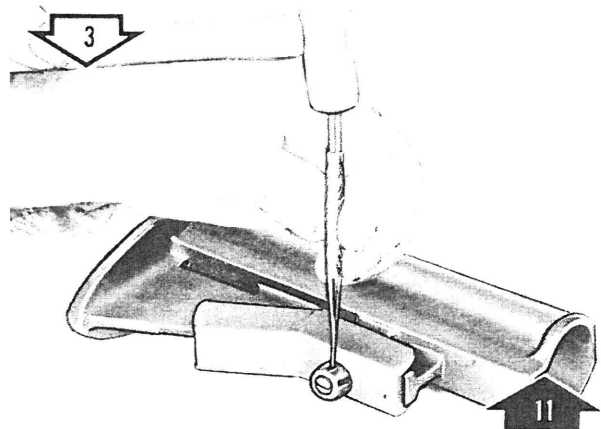
3-18. For further disassembly  and assembly  procedures, see figure 3-2.



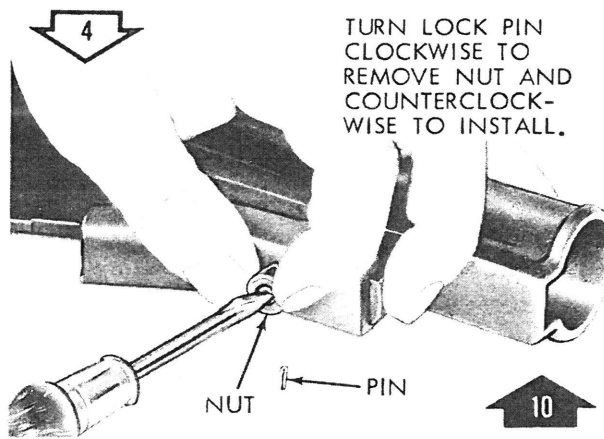
Extend stock.



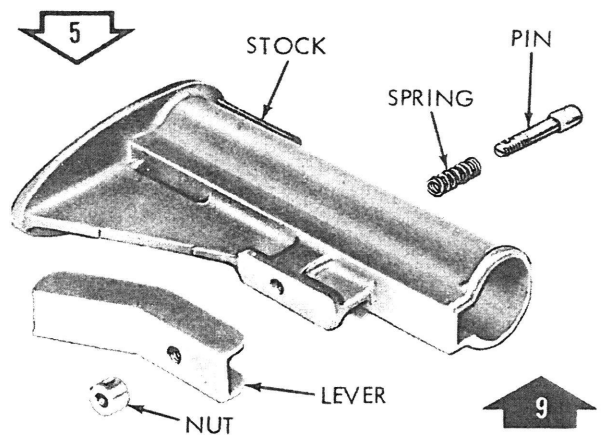
Remove/Install stock.



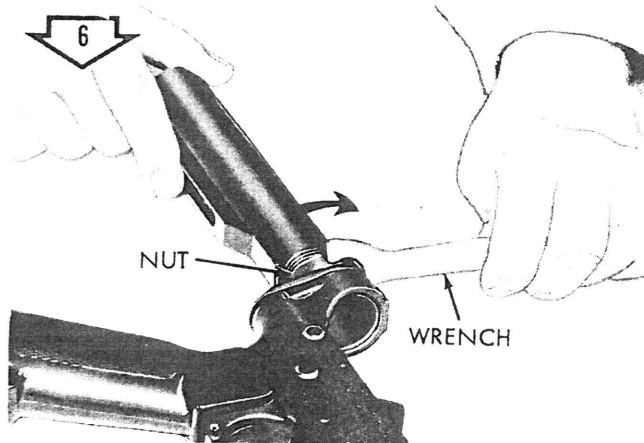
Remove/Install spring pin.



Remove/Install nut.

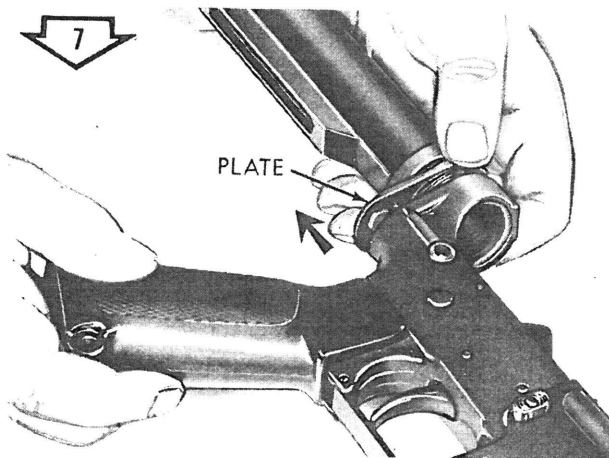


Remove/Install release lever, lock pin and spring.



Loosen lock nut.

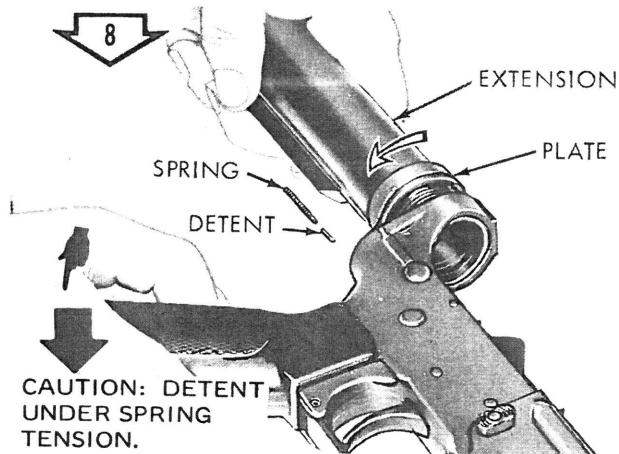
Figure 3-2. Disassembly/Assembly of Submachine Gun (Sheet 1 of 3)



Slide plate to rear.

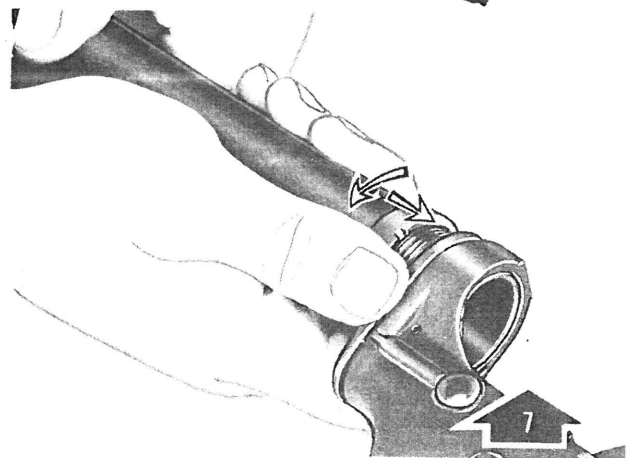


Tighten lock nut and stake.

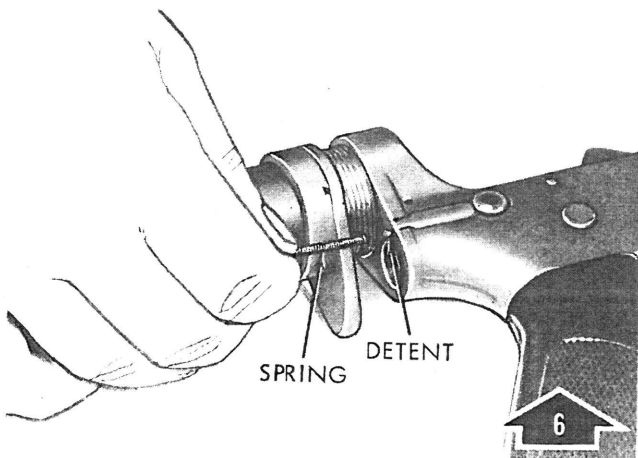


CAUTION: DETENT UNDER SPRING TENSION.

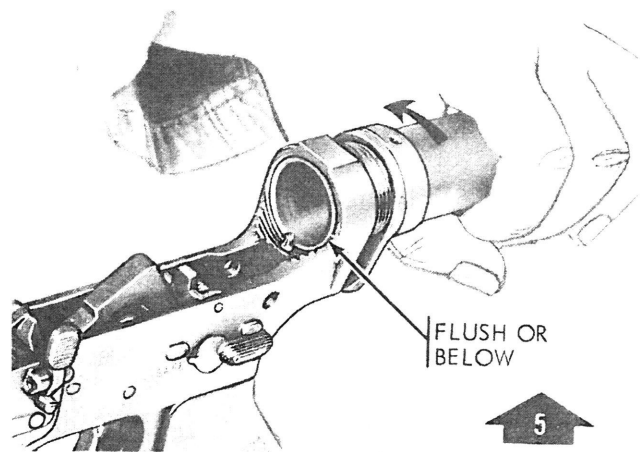
Rotate receiver extension clockwise and remove take down pin detent and spring.



Rotate receiver extension counterclockwise and slide plate forward into lower receiver.

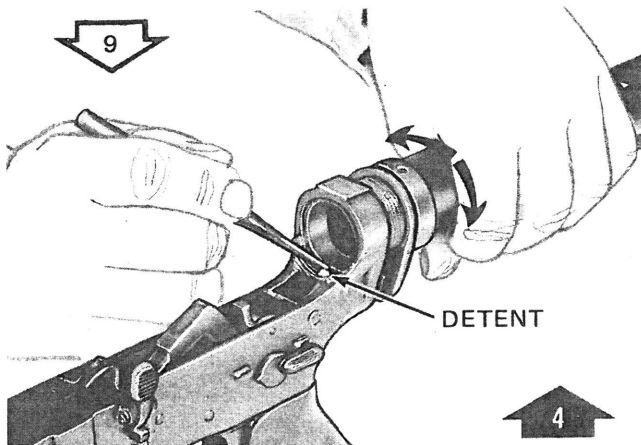


Install take down pin detent and spring.

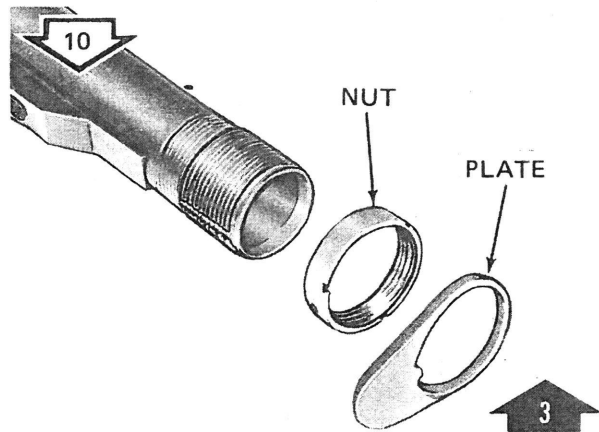


Rotate receiver extension clockwise until flush or below receiver.

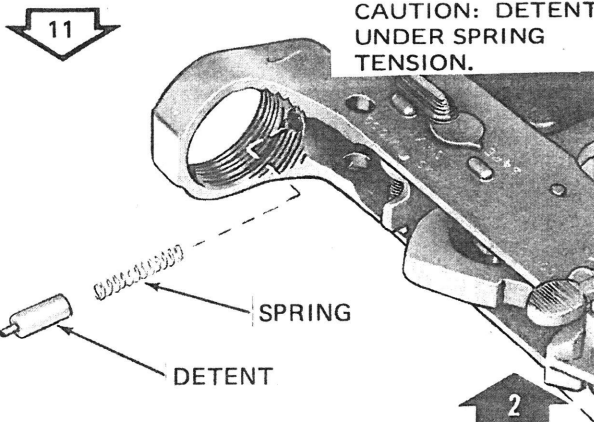
Figure 3-2. Disassembly/Assembly of Submachine Gun (Sheet 2 of 3)



9
Depress detent and remove/install receiver extension.

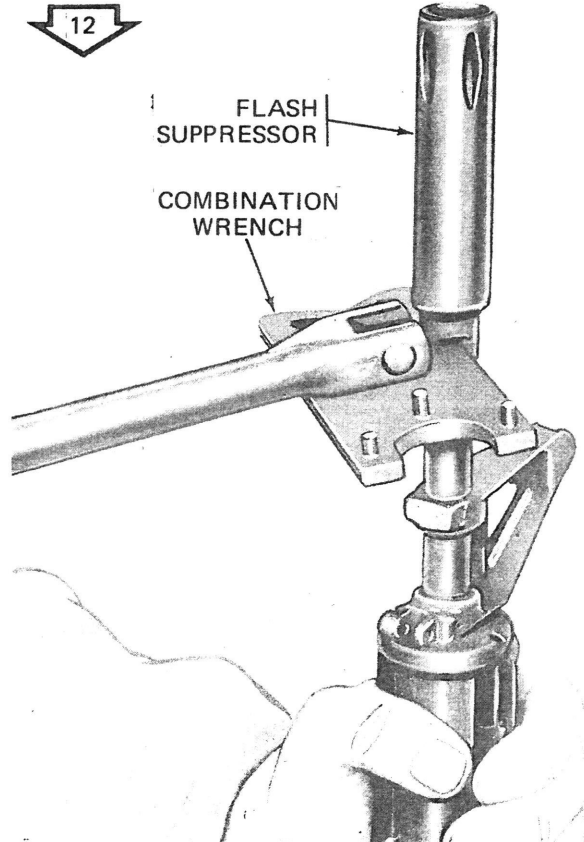


10
Remove/install plate and nut.

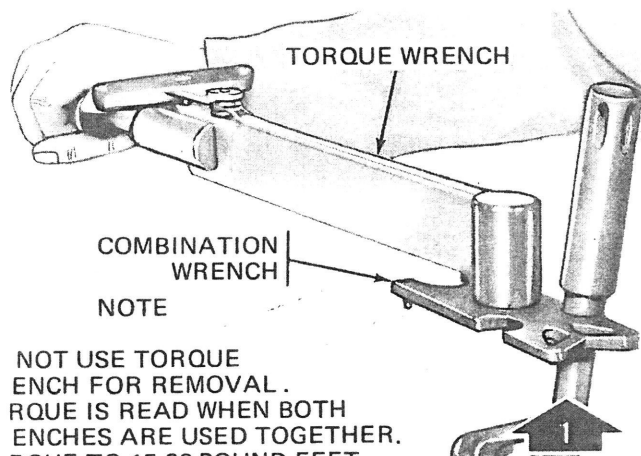


11
CAUTION: DETENT UNDER SPRING TENSION.

Remove/install detent and spring.



12
Remove flash suppressor.



1
TORQUE WRENCH
COMBINATION WRENCH

NOTE

NOT USE TORQUE WRENCH FOR REMOVAL. TORQUE IS READ WHEN BOTH WRENCHES ARE USED TOGETHER. TORQUE TO 15-20 POUND-FEET.

Install flash suppressor.

Figure 3-2. Disassembly/Assembly of Submachine Gun (Sheet 3 of 3)

3-19. REPAIR AND REPLACEMENT.

3-20. REPAIR AND REPLACEMENT PARTS.

1. See section VI of this manual for a list of repair parts peculiar to the submachine gun.
2. Refer to T.O. 11W3-5-5-1, chapter IX for additional repair and replacement parts.
3. During overhaul of submachine gun, all steel parts requiring refinishing will be stripped of old coating by glass bead blasting and refinished in accordance with paragraph 5.3.1.2 or 5.3.2.2 of MIL-STD-171.
4. When barrels, part Numbers 62378 and 62488, are replaced with barrel, part Number 62771, reidentify submachine gun by stamping X's over the old type designator and stamp new type designator "GUU-5P" immediately below the weapon serial number, using a 1/8" metal stamp.

SECTION IV AMMUNITION

- 4-1. GENERAL.
- 4-2. Refer to T.O. 11W3-5-5-1, chapter V for information on ammunition used in the submachine gun.

SECTION V

DESTRUCTION OF MATERIAL TO PREVENT ENEMY USE

1. GENERAL.
2. Refer to T.O. 11W3-5-5-1, chapter VI, for information on destruction procedures to prevent use the submachine gun by the enemy.



SECTION VI ILLUSTRATED PARTS BREAKDOWN

6-1. GENERAL.

6-2. This section contains an illustrated parts breakdown of repair parts and components used with or peculiar to the submachine gun. The illustrated parts breakdown consists of a group assembly parts list with accompanying illustration.

6-3. GROUP ASSEMBLY PARTS LIST.

6-4. The group assembly parts list contains information for ordering replacement parts. This list contains figure and index column, part number, description, units per assembly and useable on code. Where the useable on code is left blank, parts listed apply to all equipment covered in this manual.

6-5. FIGURE AND INDEX COLUMN. This column identifies the figure in which the part is illustrated and called out by index number.

6-6. PART NUMBER COLUMN. This column lists the manufacturer's part number.

6-7. DESCRIPTION COLUMN. This column lists the name of each part or assembly and in certain cases indicates their attaching parts.

6-8. UNITS PER ASSEMBLY COLUMN. Quantities shown in this column are the total number of each part of assembly required at the location indicated, but may not be the total number used on the equipment.

6-9. USEABLE ON CODE COLUMN. Where the column is left blank, parts listed apply to all equipment.

6-10. Refer to T.O. 11W3-5-5-1, chapter IX for additional repair parts applicable to both the M-16 rifle and the submachine gun.

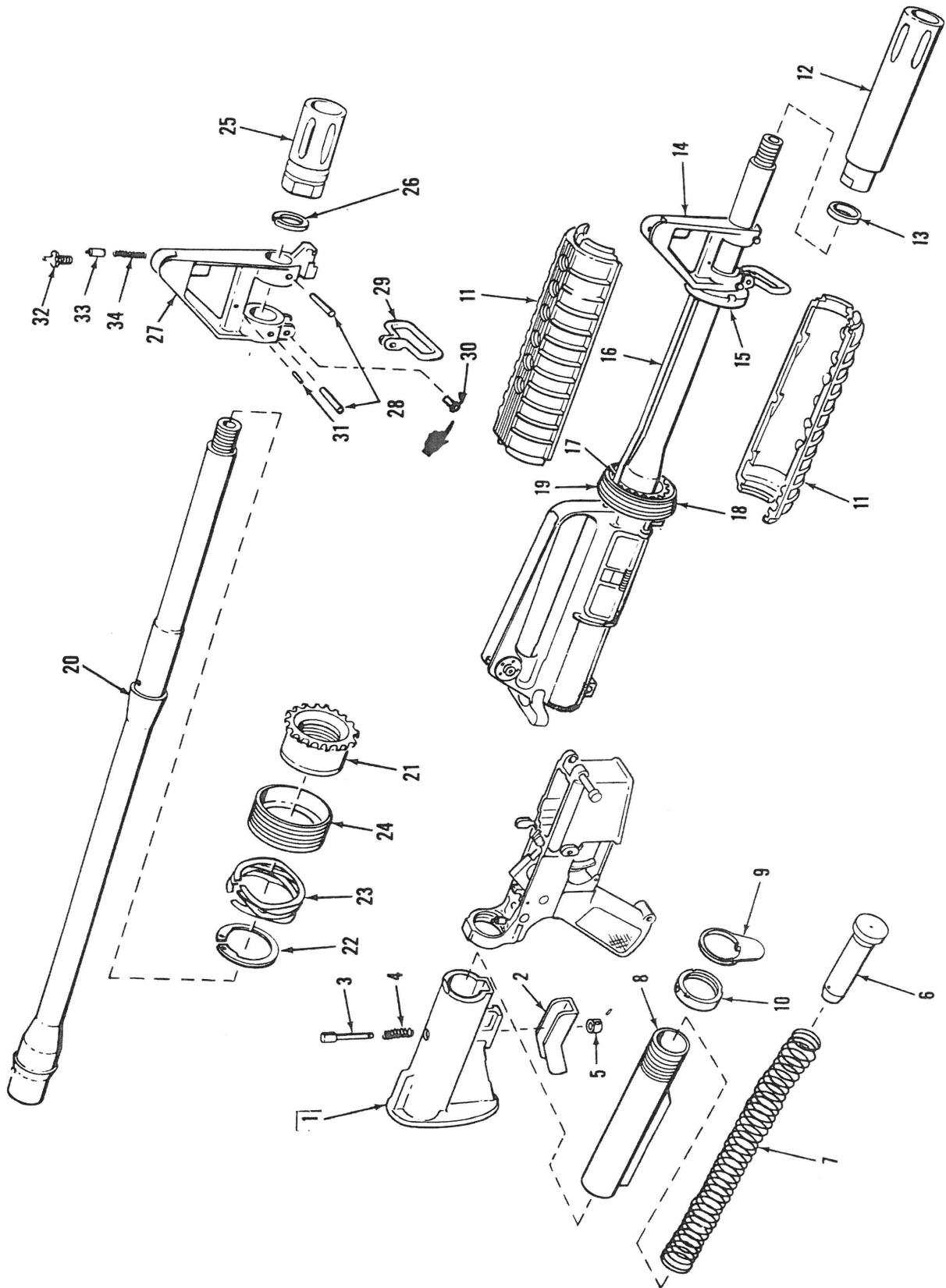


Figure 6-1. Gun, Submachine, 5.56-MM, GAU-5A, GAU-5A/A and GUU-5P (Exploded View).

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SMR
		1	2	3	4	5	6	7			
6-1-		GUN, Submachine, 5.56-MM, GAU-5A								A	PAOOD
		GUN, Submachine, 5.56-MM, GAU-5A/A								B	PAOOD
		GUN, Submachine, 5.56-MM, GUU-5P								C	PAOOD
-1	62486	STOCK, Butt, Sliding							1	ABC	PAOZZ
-2	62487	LEVER, Release							1	ABC	PAOZZ
		(ATTACHING PARTS)									
-3	62361	PIN, Lock, Release Lever							1	ABC	PAOZZ
-4	62369	SPRING, Helical Compression, Locking							1	ABC	PAOZZ
-5	62368	NUT, Lock Pin							1	ABC	PAOZZ

-6	62382	BUFFER ASSY							1	ABC	PAOZZ
-7	62373	SPRING, Action							1	ABC	PAOZZ
-8	62356	EXTENSION, Lower Receiver							1	ABC	PAOZZ
-9	62358	PLATE, End Receiver							1	ABC	PAOZZ
-10	62357	NUT, Receiver Extension							1	ABC	PAOZZ
-11	62381	HANDGUARD ASSY							2	ABC	PAOZZ
-12	62370	SUPPRESSOR, Flash							1	AB	PAOZZ
-13	62485	WASHER, Suppressor							1	AB	PAOZZ
-14	62488	BARREL AND SIGHT ASSY							1	B	PAOZZ
	62378	BARREL AND SIGHT ASSY							1	A	PAOZZ
		(62488 and 62378 replaced by 62771)									
-15	62316	CAP, Handguard							1	ABC	PAOZZ
-16	62366	TUBE, Gas Assembly							1	AB	PAOZZ
-17	62482	BARREL NUT ASSY							1	AB	PAOZZ
-18	62484	SPRING, Slip, Ring, Handguard							1	AB	PAOZZ
-19	62483	RING, Slip, Handguard							1	AB	PAOZZ
	62771	BARREL AND SIGHT ASSY							1	C	PAOOO
-20	62614	BARREL AND BARREL EXTENSION ASSY							1	C	XAOZZ
-21	61902	BARREL NUT							1	C	PAOZZ
-22	MS16626-1137	RING, Retaining, Barrel Nut							1	C	PAOZZ
-23	61962	SPRING, Slip, Ring, Handguard							1	C	PAOZZ
-24	61901	RING, Slip, Handguard							1	C	PAOZZ
-25	62348	SUPPRESSOR, Flash							1	C	PAOZZ
-26	62126	WASHER, Suppressor							1	C	PAOZZ
-27	62068	SIGHT, Front							1	C	XAOZZ
-28	62086	PIN, Front Sight, Tapered							2	C	PAOZZ
-29	62280	SWIVEL, Gun Sling							1	C	PAOZZ
-30	MS16535-125	RIVET							1	C	PAOZZ
-31	MS16562-106	PIN, Spring							1	C	PAOZZ
-32	61706	POST, Front Sight							1	C	PAOZZ
-33	61705	DETENT, Front Sight							1	C	PAOZZ
-34	61709	SPRING, Front Sight, Detent							1	C	PAOZZ

