

Manual No. CM-104

**COLT'S
COMMANDO
SUBMACHINE GUN**

**OPERATION AND MAINTENANCE
MANUAL**

January 1972



COLT INDUSTRIES OPERATING CORP
WEAPONS DIVISION

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CHAPTER I – INTRODUCTION

Section 1 - Purpose and Scope

1-1. General

This manual is a supplement to Colt's M16 (AR-15) Automatic Rifle Manual No. CM-101, Operation and Maintenance Instructions, and CM-102, Armorer/Depot Maintenance and Repair Manual, and contains additional pertinent information for the guidance of personnel responsible for the operation, maintenance, and repair of Colt's Commando Submachine Gun. Procedures relating to the Commando that are identical to those pertaining to the M16 are referenced to Manual No. CM-101 and to CM-102.

Section 2 - Introduction

1-2. Description

Colt's Commando Submachine Gun is similar to Colt's M16 Automatic Rifle as described in Manual No. CM-101, paragraph 1-3, pages 2 through 5. However, the Commando has a shorter barrel and handguard, a telescoping buttstock, and a different type noise/flash suppressor.



Figure 1. Colt's Commando Submachine Gun with Buttstock Extended and Retracted.



1-3. Tabulated Data

The tabulated data which follows is peculiar to Colt's Commando Submachine Gun. For data which is the same as that of Colt's M16 Automatic Rifle, refer to Manual No. CM-101, paragraph 1-4, page 6.

Weights:

Empty	5.5 lb
Loaded (20 round magazine)	6.2 lb
Loaded (30 round magazine)	6.6 lb

Lengths:

Overall (stock retracted)	29.8 in.
Overall (stock extended)	32.5 in.
Barrel	11.5 in.
Barrel (with flash/noise suppressor)	15.0 in.

Characteristics:

Energy at Muzzle	925 ft-lb
Velocity at Muzzle	2,750 ft/sec
Cyclic Rate of Fire	700 - 900 rounds/min

CHAPTER II – OPERATING INSTRUCTIONS

Section 1 - Cycles of Operation

2-1. General

Refer to Manual No. CM-101, paragraph 2-1, pages 7 through 12, for a description of the cycles of operation.

Section 2 - Controls

2-2. Controls

Refer to Manual No. CM-101, paragraph 2-2, pages 12 through 14, for a description of the controls. For controls peculiar to the Commando Submachine Gun, refer to Figure 2 of this manual.

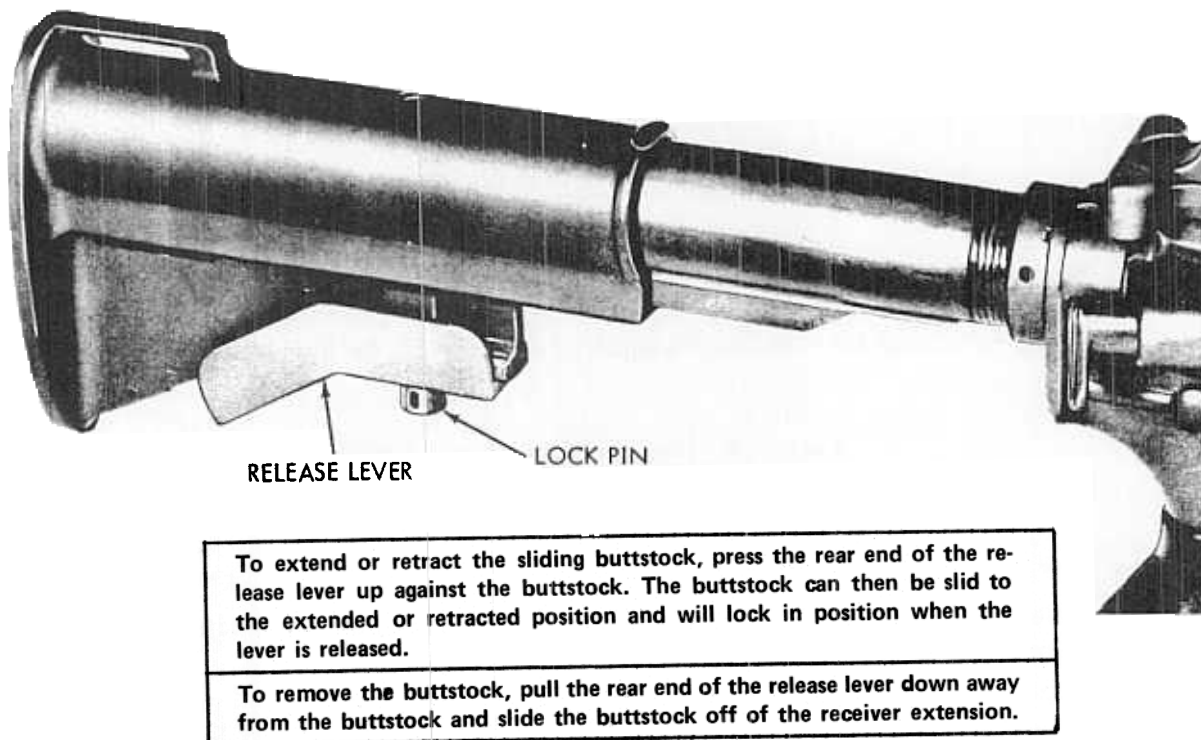


Figure 2. Controls Peculiar to the Commando Submachine Gun.



Section 3 - Operation

2-3. Operation

Refer to Manual No. CM-101, paragraphs 2-3 through 2-11, pages 15 through 20, for Operating Instructions - Usual Conditions, and to paragraphs 2-12 through 2-16, pages 21 and 22 for Operating Instructions - Unusual Conditions.

Section 4 - Functional Check

2-4. Functional Check

Refer to Manual No. CM-101, paragraph 2-17, pages 23 and 24, for the functional check procedure. An additional functional check peculiar to the Commando Submachine Gun is as follows:

<u>Step</u>	<u>Action</u>	<u>Reference</u>
	Extend and retract buttstock and check operation of release lever and lock pin.	Figure 2.

Section 5 - Pre-issue Service

2-5. Pre-issue Service

Refer to Manual No. CM-101, paragraph 2-18, page 25, for pre-issue service instructions.

Section 6 - Pre-functioning Lubrication

2-6. Pre-functioning Lubrication

Refer to Manual No. CM-101, paragraph 2-20, page 26, for pre-functioning lubrication procedure.

CHAPTER III – MAINTENANCE INSTRUCTIONS

Section 1 - Tools, Materials, and Equipment

3-1. Operator Maintenance Tools, Materials, and Equipment

Refer to Manual No. CM-101, paragraph 3-1, page 27, for the list of tools, materials, and equipment required for operator maintenance of the Commando Submachine Gun.

3-2. Unit Maintenance Tools, Equipment, and Parts

Refer to Manual No. CM-101, paragraph 3-2, page 28, for the list of tools, equipment, and parts required for maintenance functions performed by the unit armorer. For a list of tools and equipment peculiar to the Commando Submachine Gun, refer to Appendix B, page 15, of this manual. For the lists of parts required by the unit armorer, refer to Manual No. CM-101, Appendix B, pages 65 through 70 and to Appendix A, page 13, of this manual.

3-3. Armorer/Depot Maintenance Tools, Materials, and Parts

Refer to Manual No. CM-102, Table 2-1, page 3, for a list of maintenance tools required for armorer/depot maintenance. For tools peculiar to the Commando Submachine Gun, refer to Appendix B, page 15, of this manual. For the list of consumable maintenance materials, refer to Manual No. CM-102, Table 2-2, page 5. For the lists of repair parts required for armorer/depot maintenance, refer to Manual No. CM-102, Appendix B, pages 65 through 70, and to Appendix A, page 13, of this manual.

Section 2 - Maintenance Procedures

3-4. Operator Maintenance Procedures

Refer to Manual No. CM-101, paragraphs 3-3 through 3-8, pages 29 through 42, for the operator maintenance procedures.

3-5. Unit Maintenance Procedures

Refer to Manual No. CM-101, paragraphs 3-9 through 3-14, pages 43 through 49, for the procedures to be followed by the unit armorer.



3-6. Preventive Maintenance Procedures

Refer to Manual No. CM-101, paragraph 3-15, page 50, for preventive maintenance procedures to be followed by the operator and the unit armorer.

3-7. Trouble Shooting

Refer to Manual No. CM-101, paragraph 3-17, page 51, for trouble shooting procedures. The following are additional procedures peculiar to the Commando Submachine Gun:

Malfunction	Probable Cause	Corrective Action
Flash/Noise suppressor.	Excessive carbon build-up.	Clean with bore brush and bore cleaner, rinse in solvent, and wipe dry.
Sliding buttstock sticks.	Sand, dirt, or foreign matter in buttstock slides.	Clean and wipe dry.

3-8. Armorer/Depot Maintenance Procedures

Refer to Manual No. CM-102, paragraphs 2-4 through 3-3, pages 7 through 29, and paragraphs 5-1 through 6-2, pages 32 through 40, for armorer/depot maintenance procedures. Additional procedures which are peculiar to the Commando are as follows:

Disassembly/Assembly – Refer to Figures 2 and 3, pages 3 and 7 through 9, of this manual.

Maintenance Inspection – Check functioning of the sliding buttstock to be certain it extends and retracts freely and that it locks properly in each position.

Maintenance Procedure – Installation of the release lever and assembly of the lock pin is as follows:

Install the lock pin and spring through the hole in the top of the buttstock and the nut on the bottom of the lock pin.

While holding the lock pin from rotating with a screw driver in the slot on the threaded end of the lock pin, tighten the nut sufficiently for the release lever to operate properly as shown in Figure 2 of this manual.

Line up the lock pin hole in the nut with the slot in the lock pin and install the roll pin in the lock nut so the nut will be retained in its adjusted position.

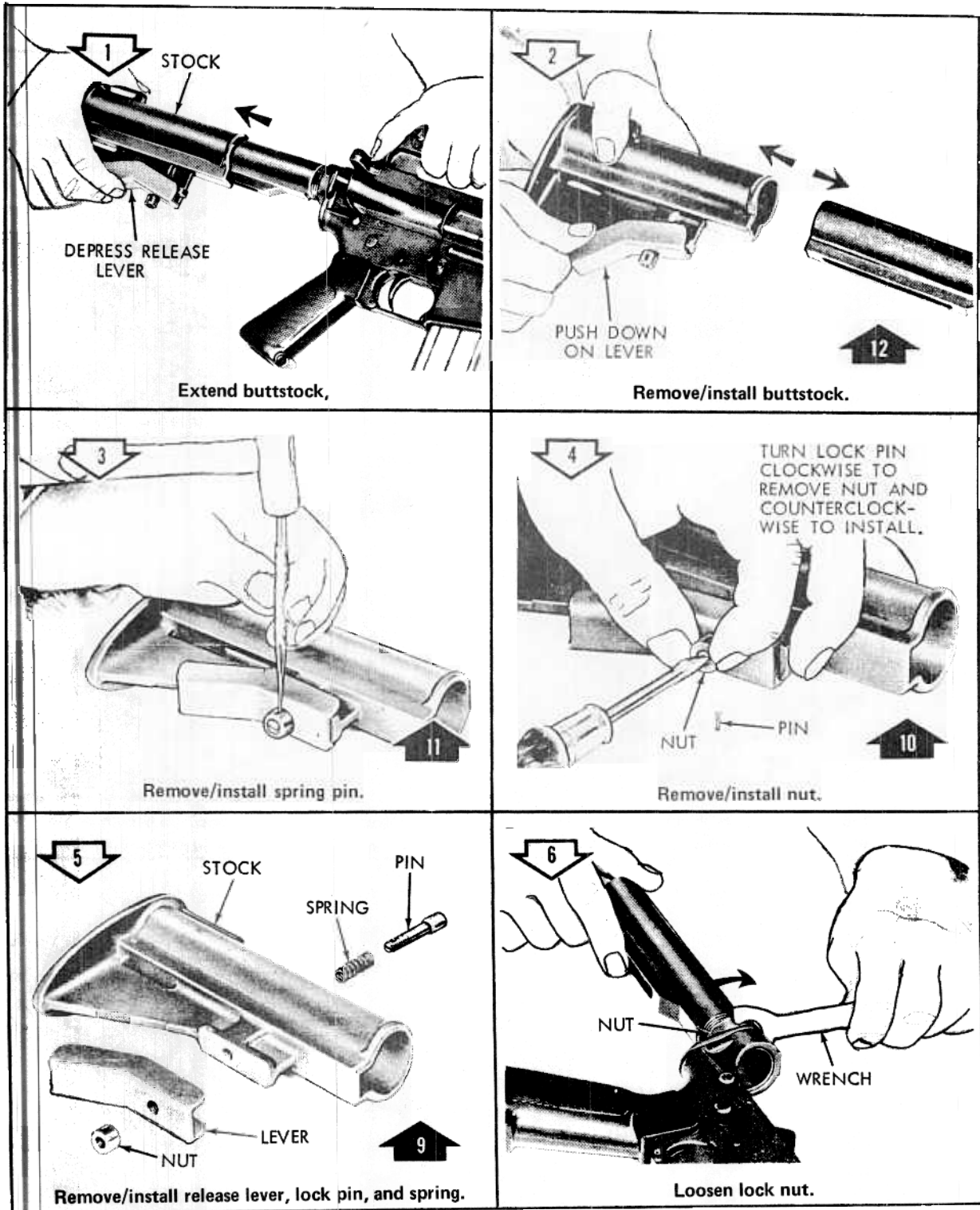




Figure 3. Disassembly/Assembly of the Commando Submachine Gun.
(Page 1 of 3)

-  Open arrows indicate disassembly sequence.
-  Solid arrows indicate assembly sequence.

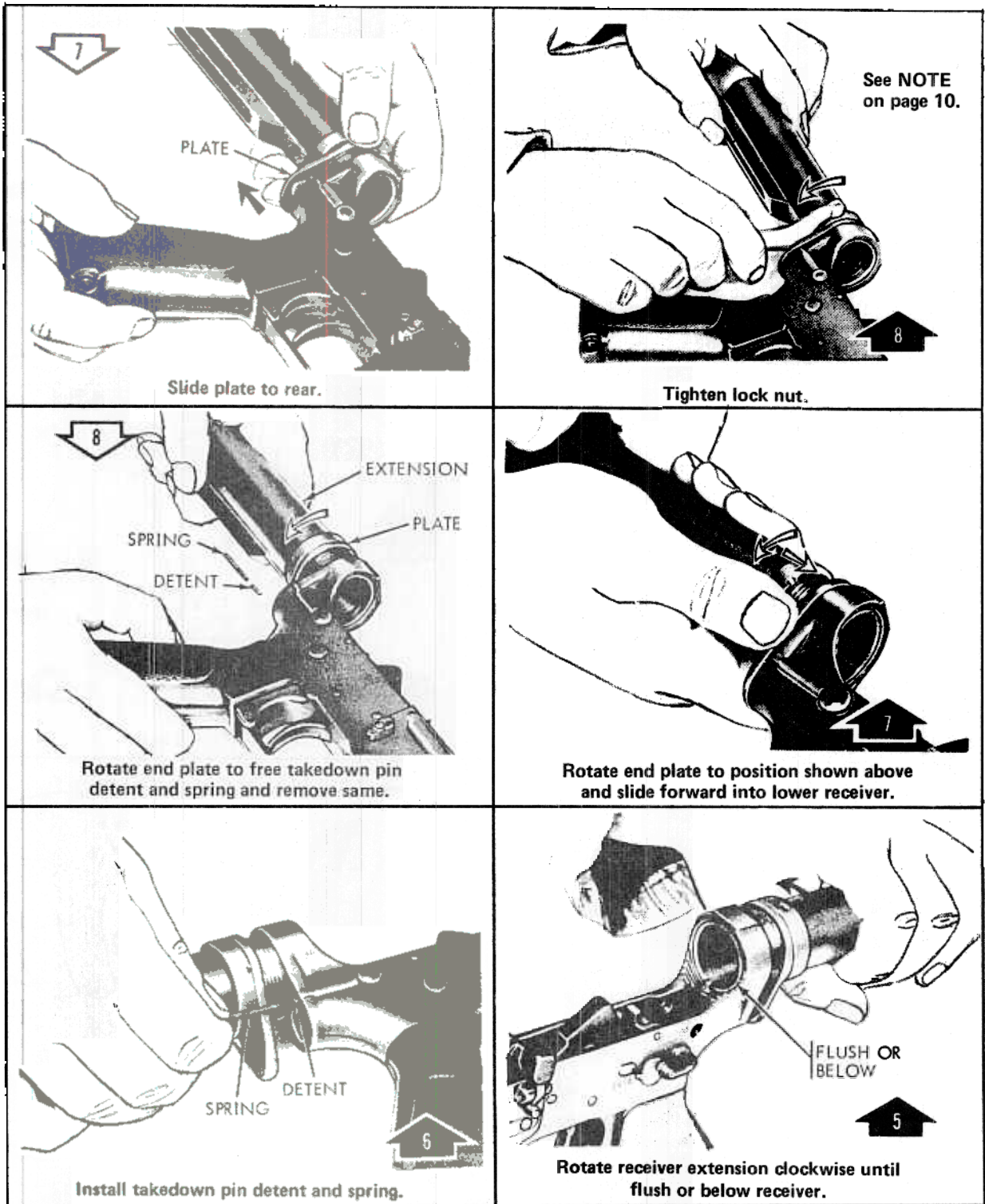


Figure 3. Disassembly/Assembly of the Commando Submachine Gun.
(Page 2 of 3)



NOTE: (Assembly step  8)

It is recommended that the receiver extension nut be torqued to 40 ± 2 ft-lb. After the receiver extension nut has been tightened, the end plate is to be staked with a prick punch to any two of the wrench slots in the receiver extension nut.

CHAPTER IV – AMMUNITION

41. Ammunition

Refer to Manual No. CM-101, Chapter V, pages 61 through 63, for information regarding ammunition.

CHAPTER V – REPAIR PARTS

5-1. Operator and Unit Maintenance Repair Parts

Refer to Manual No. CM-101, Appendix A, page 64, for a list of operator and unit maintenance installed repair parts. For a list of repair parts peculiar to the Commando Submachine Gun, refer to Appendix A, page 13, of this manual.

5-2. Armorer/Depot Maintenance Repair Parts

For a list of armorer/depot installed repair parts, refer to Manual No. CM-102, Appendix B, page 47, For a list of repair parts peculiar to the Commando Submachine Gun, refer to Appendix A, page 13, of this manual.

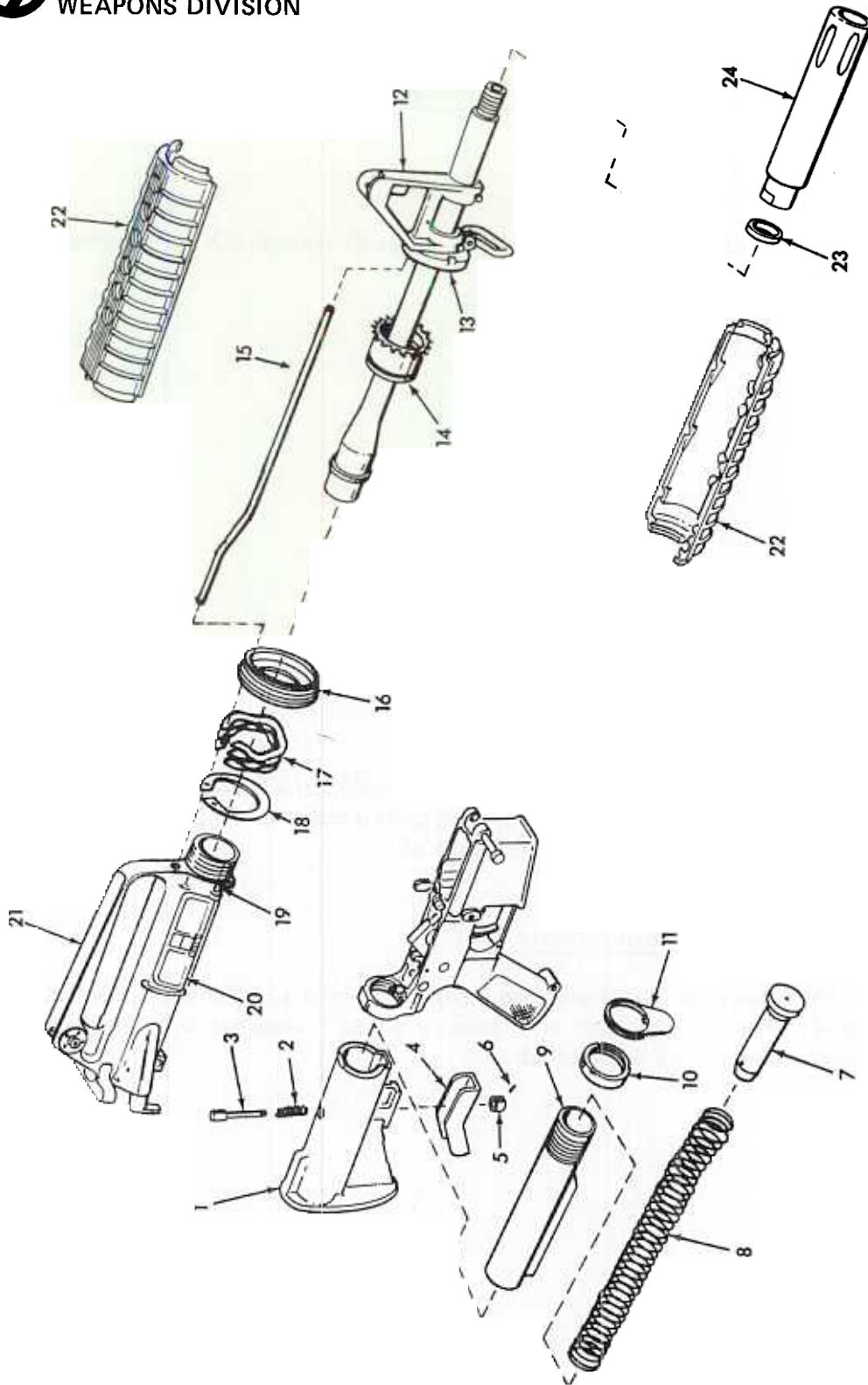


Figure 4. Repair Parts Peculiar to the Commando Submachine Gun.

APPENDIX A – MAINTENANCE REPAIR PARTS

This appendix lists those parts that are peculiar to the Commando Submachine Gun. For a list of repair parts that are common to both the M16 Automatic Rifle and the Commando, refer to Manual No. CM-101, Appendix A, page 64, and to Manual No. CM-102, Appendix B, pages 47 through 54. The parts listed below are illustrated in Figure 4, page 12, of this manual and the Figure 4 index numbers are sequenced in order of assembly.

Colt's Part No.	Description	Figure & Index Number
62488	Replacement Barrel and Front Sight Assembly	4-12 ***
62482	Barrel Nut Assembly	*
62382	Buffer Assembly	4-7
62486	Buttstock, Sliding	4-1
62346	Cap, Hand Guard	4-13
62474	Ejection Port Cover Assembly	4-20
62356	Extension, Receiver	4-9
62366	Gas Tube Assembly	4-15
62381	Hand Guard Assembly	4-22
62487	Lever, Release	4-4
61902	Nut, Barrel	4-14**
62368	Nut, Lock Pin	4-5
62357	Nut, Receiver Extension	4-10
62478	Pin, Hinge - Ejection Port Cover	4-19
62361	Pin, Lock - Release Lever	4-3
95142	Pin, Spring - Release Lever Nut	4-6
62358	Plate, Receiver End	4-11
62483	Slip Ring, Hand Guard	4-16**
90403	Snap Ring, Hand Guard	4-18**
62485	Spacer, Launcher	4-23
62373	Spring, Action	4-8
62369	Spring, Locking - Release Lever	4-2
62484	Spring Weld Assembly, Hand Guard Slip Ring	4-17**
62370	Suppressor, Noise and Flash	4-24
62473	Upper Receiver Assembly	4-21

* The P/N 62482 Barrel Nut Assembly consists of items 4-14 and 4-16 through 4-18.

** Each part so designated is a component of P/N 62482 Barrel Nut Assembly.

*** The P/N 62488 Replacement Barrel and Front Assembly is supplied with items 4-13 and 4-14 installed. However, these items may be ordered separately if desired.

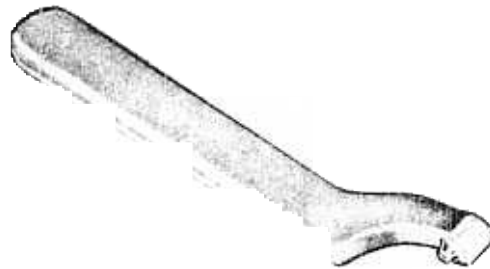


Figure 5. Spanner Wrench.

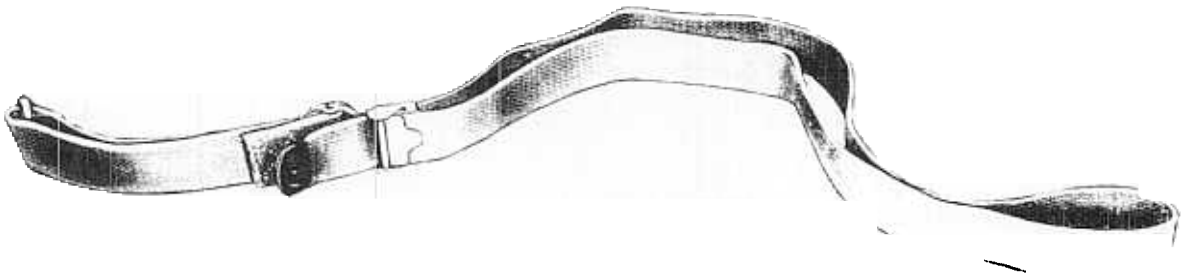


Figure 6. Sling.

APPENDIX B – TOOLS AND EQUIPMENT

This appendix lists those tools and items of equipment that are peculiar to the Commando Submachine Gun. Additional tools and items of equipment that are applicable to both the M16 Automatic Rifle and the Commando Submachine Gun are listed in Manual No. CM-101, paragraphs 3-1 and 3-2, pages 27 and 28, and in Manual No. CM-102, Appendix A, pages 41 through 48.

Colt's Part No.	Description	Figure Number
62420	WRENCH, SPANNER	5
62149	SLING, SMALL ARMS	6