

TM 9-XXXX-XXX-12

SAWS

Preliminary Operation and Maintenance Manual
Sub Machine Gun, 5.56-mm, Colt Car-15
and
Rifle, 5.56-mm, Heavy Assault M1, Colt Car-15

MANUFACTURED BY
COLT FIREARMS DIVISION
COLT INDUSTRIES, INC.
150 HUYSHOPE AVENUE
HARTFORD, CONN.

DRAFT ONLY

Prepared by:
COLT FIREARMS DIV.
COLT INDUSTRIES

This publication is not available through AG publications channels.

Digitized by:

TABLE OF CONTENTS

Preliminary Operation and Maintenance Manual

SUB-MACHINE GUN, 5.56-MM, COLT CAR-15

and

RIFLE, 5.56-MM, HEAVY ASSAULT ML, COLT CAR-15

	Page
Chapter 1 - Introduction.....	1
Section 1 - General.....	1
Section 2 - Description and Data.....	1
Chapter 2 - Operating Instructions.....	3
Section 1 - Services Upon Receipt of Material.....	3
Section 2 - Controls.....	3
Section 3 - Operation Under Usual Conditions.....	4
Section 4 - Operation Under Unusual Conditions.....	4
Chapter 3 - Organizational Maintenance Instructions.....	4
Section 1 - Repair Parts, Tools & Equipment.....	4
Section 2 - Lubrication.....	4
Section 3 - Preventive Maintenance Services.....	5
Section 4 - Troubleshooting.....	5
Section 5 - Maintenance of Weapons.....	5
Chapter 4 - Maintenance Under Unusual Conditions.....	5
Chapter 5 - Ammunition.....	5
Chapter 6 - Demolition of Material.....	5
Appendix I - Basic Issue Items List.....	6
Appendix II - Maintenance Allocation Chart.....	7
Appendix III - Organizational Maintenance Repair Parts and Special Tools.....	8



FIGURE 2

Rifle, Heavy Assault M1, CAR-15



FIGURE 1

Sub-Machine Gun CAR-15
(Butt Stock Extended)

CHAPTER I

INTRODUCTION

SECTION I GENERAL

1.1 SCOPE

This manual is supplementary to TM 9-1005-249-14 and contains additional pertinent information for the guidance of operators and organizational maintenance personnel responsible for Sub-Machine Gun, 5.56-MM Colt CAR-15 and Rifle 5.56-MM Heavy Assault M1, Colt CAR-15.

NOTE

Most procedures relating to these two weapons are identical to procedures for Rifle, 5.56-MM, XM16E1. Such identical procedures will be referenced to TM 9-1005-249-14. Additional or dissimilar procedures will be specifically detailed herein.

1.2 MAINTENANCE ALLOCATION

Maintenance Allocation Chart will be found in Appendix II.

SECTION II DESCRIPTION AND DATA

1.3 DESCRIPTION

1.4 SUB-MACHINE GUN 5.56-MM, Colt CAR-15

- (a) This weapon is similar in most characteristics to the XM16E1 rifle. The Sub-Machine Gun has a shortened barrel and a telescoping butt stock. A 30 round magazine is provided.

1.5 RIFLE, 5.56-MM, HEAVY ASSAULT M1, CAR-15

(a) This weapon is identical in most characteristics to Rifle, 5.56-MM XM16E1 except that it is provided with a heavier barrel to permit a higher sustained rate of fire and is supplied with a 30 round magazine. An adapter to receive the M-14 bipod is affixed to the barrel.

1.6 TABULATED DATA

Only data which differs from that in TM 9-1005-249-14 is listed below.

SPECIFICATION	SUB-MACHINE GUN	HEAVY ASSAULT RIFLE
Weight empty	5.6 lbs	7.6 lbs
Weight loaded	6.6 lbs	8.4 lbs
Length	27.25 inches (stock closed) 31 inches (stock extended)	39 inches
Barrel length	10 inches	20 inches
Muzzle energy	925 ft lbs	1320 ft lbs
Cyclic Rate of Fire	700-900	700-900

CHAPTER II
OPERATING INSTRUCTIONS

SECTION I SERVICE UPON RECEIPT OF MATERIAL

2.1 GENERAL

Both weapons are packed ready for use upon receipt.

2.2 SERVICES

2.3 SUB-MACHINE GUN AND HEAVY ASSAULT RIFLE.

(a) Unpacking. Remove protective paper and paper bore tube.

(b) Cleaning. Wipe exterior of weapons with clean rag.

Run patch through bore to remove oil and dirt.

(c) Lubrication. Follow procedures in paragraph 3.5 through 3.8 in TM 9-1005-249-14.

(d) Inspection.

SECTION II CONTROLS

2.4 GENERAL

Refer to Figure 3-2 in TM 9-1005-249-14.

(a) TELESCOPING BUTT STOCK

To extend telescoping butt stock on Sub-Machine Gun move lever in butt plate to "O"; pull butt stock firmly to rear; move lever back to "I". Reverse procedure to close butt stock.

SECTION III OPERATION UNDER USUAL CONDITIONS

2.5 GENERAL

- (a) Follow procedures contained in paragraphs 3-5 through 3-22 in TM 9-1005-249-14.

SECTION IV OPERATION UNDER UNUSUAL CONDITIONS

CHAPTER III

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

SECTION I REPAIR PARTS, TOOLS AND EQUIPMENT

3.1 GENERAL

3.2 REPAIR PARTS

Repair parts authorized to operators and organizational maintenance differ in only few instances from those listed in CHAPTER IX, TM 9-1005-249-14.

- (a) A list of parts will be found in APPENDIX III of this manual.

Where the manufacturer's number preceded by prefix "GX" is used, such part differs in design from those contained in above referenced list.

- (b) Parts for Sub-Machine Gun may be identified in Figure 3.

- (c) Parts for Heavy Assault Rifle may be identified in Figure 4.

3.3 COMMON TOOLS AND EQUIPMENT

These are identical to those listed in CHAPTER IX of TM 9-1005-249-14.

3.4 SPECIAL TOOLS AND EQUIPMENT

None Required

SECTION II LUBRICATION

3.4 LUBRICATION INSTRUCTIONS

- (a) Follow procedures in paragraphs 3-5 and paragraphs 3-25 through 3-28 in TM 9-1005-249-14.

3.5 LUBRICATION UNDER UNUSUAL CONDITIONS

- (a) No special procedures required.

SECTION III PREVENTIVE MAINTENANCE SERVICES

3.6 GENERAL

- (a) Follow procedures in paragraphs 4-1 through 4-5 and Table 4-1 in TM 9-1005-249-14.

SECTION IV TROUBLESHOOTING

3.7 SCOPE

3.8 TROUBLESHOOTING

- (a) Follow procedures in paragraphs 8-1 through 8-7 and Table 8-1 in TM 9-1005-249-14.

SECTION V MAINTENANCE OF WEAPONS

3.9 Follow procedures in paragraphs 3-23 through 3-30 and Figure 3-5 in TM 9-1005-249-14 for the following:

- (a) Disassembly.
- (b) Cleaning, inspection and repair.
- (c) Before firing.
- (d) After firing.
- (e) Replacement of parts.
- (f) Assembly.

CHAPTER IV

MAINTENANCE UNDER UNUSUAL CONDITIONS

CHAPTER V

AMMUNITION

5.1 GENERAL

Refer to paragraphs 5-1 through 5-21 TM 9-1005-249-14.

CHAPTER VI

DEMOLITION OF MATERIAL TO PREVENT ENEMY USE

APPENDIX I

BASIC ISSUE ITEMS LIST

SECTION I PREFACE

This appendix lists major items of equipment and the material issued with the weapons.

SECTION II BASIC ISSUE ITEMS

SUB-MACHINE GUN CAR-15

Composed of:

- 1 - Sub-Machine Gun 5.56-MM Colt CAR-15.
- 5 - Magazine. 30 cartridge capacity #62328.
- 1 - Preliminary Operation and Maintenance Manual.

RIFLE, HEAVY ASSAULT M1 CAR-15

Composed of:

- 1 - Rifle, 5.56MM Heavy Assault M1, CAR-15.
- 1 - Bipod XM-3.
- 16 - Magazine. 30 cartridge capacity #62328.
- 1 - Preliminary Operation and Maintenance Manual.

APPENDIX II

MAINTENANCE ALLOCATION CHART FOR: SUB MACHINE GUN CAR-15
HEAVY ASSAULT RIFLE M1 CAR-15

(1) GROUP NO	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION										(4) TOOLS & EQUIPMENT	(5) REMARKS			
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	OVERHAUL	REPAIR			REBUILD		
1	MAGAZINE	o/c														
2	BOLT CARRIER GROUP	o														
3	UPPER RECEIVER GROUP															
4	BARREL & FRONT SIGHT ASSY.															
5	REAR SIGHT															
6	HAND GUARD ASSEMBLY															
7	LOWER RECEIVER GROUP															
8	STOCK ASSEMBLY															

Symbol Key:
 O/C—Operator-Crew
 O —Organizational Maint.
 DS —Direct Support

APPENDIX III

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LIST

SECTION I PREFACE

This section lists those parts authorized to be stocked and issued by organizational maintenance personnel responsible for Sub-Machine Gun CAR-15 Rifle, and Heavy Assault ML, CAR-15.

SECTION II ORGANIZATIONAL REPAIR PARTS

NOTE

Parts listed here are common to both Sub-Machine Gun CAR-15 and Rifle, Heavy Assault ML, CAR-15.

<u>PART NO.</u>	<u>NAME</u>
GX5862	Extractor, Small Arms Cartridge
62294	Firing Pin
61561	Firing Pin Retaining Pin
61563	Pin, Extractor
61704	Pin, Bolt Cam
61568	Spring, Extractor

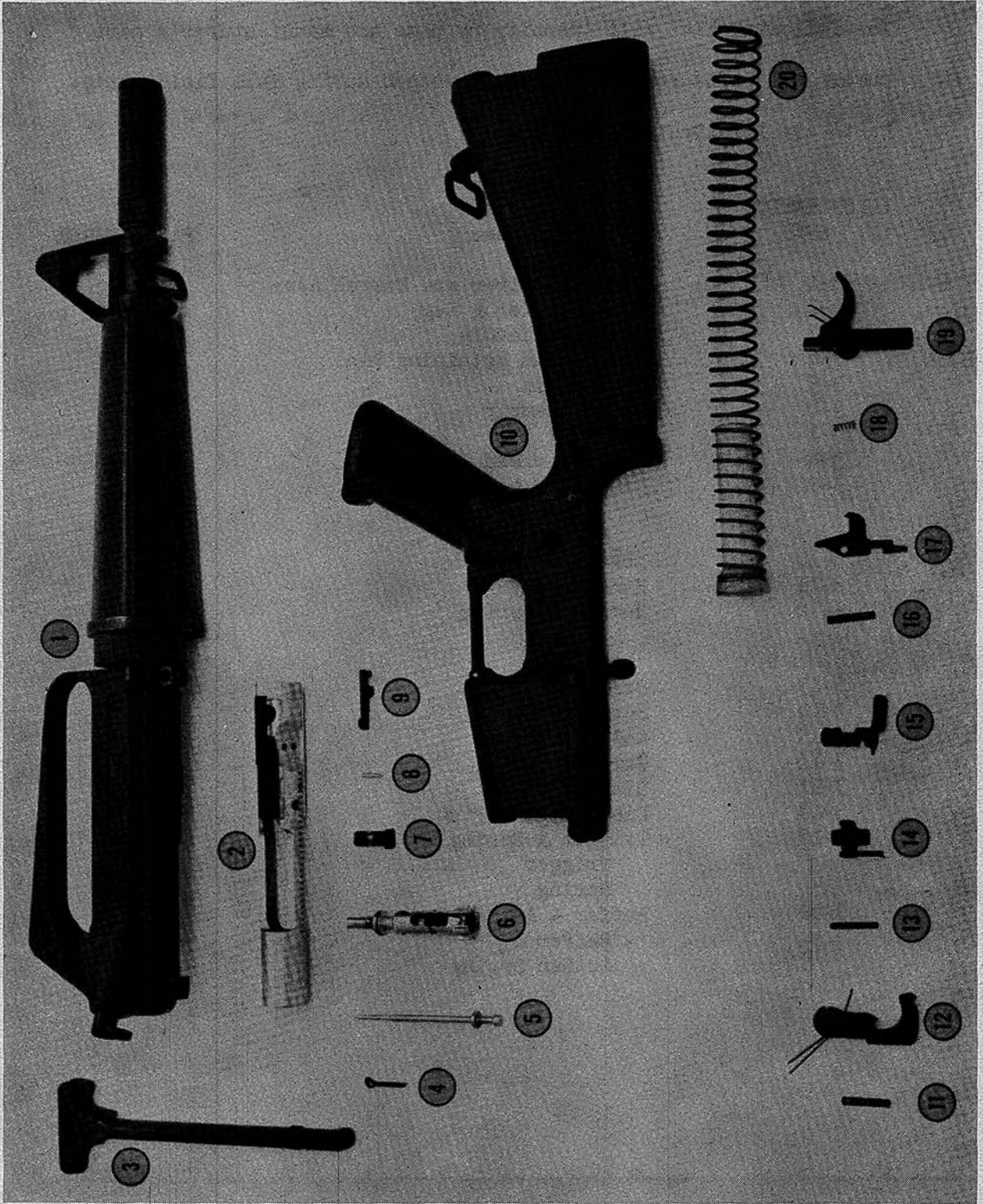


FIGURE 3

SUB-MACHINE GUN CAR-15

The following list will identify by name and manufacturer's part number all parts removed from this weapon during full field strip.

Parts are illustrated in Figure 3.

ILLUSTRATION KEY	Name	PART NUMBER
3-1	Upper Receiver and Barrel Assy.	
3-2	Bolt Carrier & Key	GX6096
3-3	Charging Handle	62290
3-4	Firing Pin Retaining Pin	GX5977
3-5	Firing Pin	62294
3-6	Bolt Assembly	GX5863
3-7	Cam Pin	61704
3-8	Extractor Pin	61563
3-9	Extractor & Spring	
	Extractor	GX5862
	Spring	61568
3-10	Lower Receiver	
3-11	Hammer Pin	61654
3-12	Hammer & Spring	
	Hammer	62317
	Spring	61697
3-13	Sear Pin	61615
3-14	Sear	61622
3-15	Selector-Lever	61959
3-16	Trigger Pin	61654
3-17	Disconnect	61918
3-18	Disconnect Spring	61925
3-19	Trigger & Spring	
	Trigger	61955
	Spring	61657
3-20	Buffer & Action Spring	
	Buffer	GX5983
	Action Spring	GX5987



1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

FIGURE 4

HEAVY ASSAULT RIFLE CAR-15 M-1

The following list will identify by name and manufacturer's part number the parts removed from the weapon during full field strip. Parts are illustrated in Figure 4.

ILLUSTRATION KEY	Name	PART NUMBER
4-1	Upper Receiver and Barrel Assy.	
4-2	Bolt Carrier & Key	GX6096
4-3	Charging Handle	62290
4-4	Firing Pin Retaining Pin	GX5977
4-5	Firing Pin	62294
4-6	Cam Pin	61704
4-7	Bolt Assembly	GX5863
4-8	Extractor Pin	61563
4-9	Extractor & Spring	
	Extractor	GX5862
	Spring	61568
4-10	Lower Receiver	
4-11	Hammer Pin	61654
4-12	Hammer & Spring	
	Hammer	62317
	Spring	61697
4-13	Sear Pin	61615
4-14	Sear	61622
4-15	Selector Lever	61959
4-16	Trigger Pin	61654
4-17	Disconnect	61918
4-18	Disconnect Spring	61925
4-19	Trigger & Spring	
	Trigger	61955
	Spring	61657
4-20	Action Spring Guide Assy	GX6160
	Action Spring	61581