ARMALITE AR-18 (AR-180) OPERATION & MAINTENANCE MANUAL

- * General Data
- * Accessories
- * Special Tools
- * Operation--Usual & Unusual Conditions
- * Telescopic Sight
- * Repair
- * Cleaning
- * Preventative Maintenance
- * Trouble Shooting
- * Disassembly/Assembly
- * Replacement of Parts

Armalite, Inc. 118 East 16th Street Costa Mesa, California

OPERATING AND MAINTENANCE MANUAL

.

RIFLE, 5.56 - MM, AR - 18

Armalite, Inc. 118 East 16th Street Costa Mesa, California

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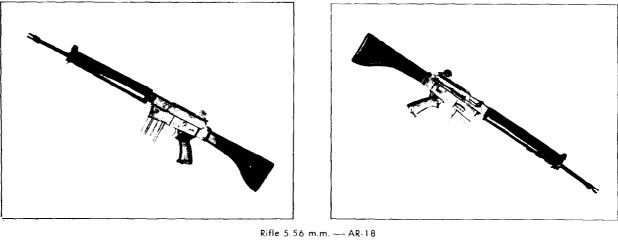
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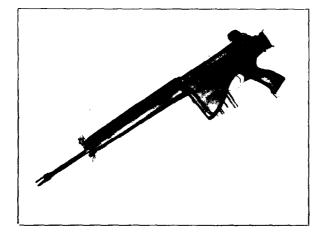
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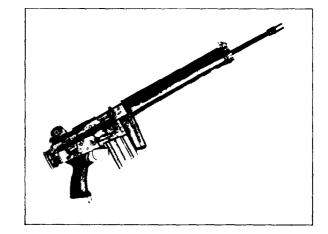
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Rifle 5.56 m.m. --- AR-18 Figure 1-1





Rifle 5.56 m.m. AR-18 Stock Folded Figure 1-2

CHAPTER I

INTRODUCTION

Section |

1-1. GENERAL.

1-2. SCOPE. This manual is published for the information and guidance of personnel responsible for operation and organizational maintenance of the Rifle, 5.56 MM, AR-18. Information provided includes: tabulated data, accessories and special tools, preparation for use, operating instructions, preventive maintenance and lubrication procedures, inspection, trouble-shooting, repair parts, procedures on disassembly, cleaning, repair, assembly and ammunition.

Section 2

1-3. DESCRIPTION AND DATA.

1-4. DESCRIPTION. The AR-18 rifle, (Figure 1-1), is light-weight, air-cooled, gas-operated, magazine-fed, shoulder or hip fired, and designed for either full automatic or semi-automatic fire. The rifle utilizes a 20-round magazine.

1-5. The manufacturer's name, serial number and caliber is stamped on the left side of the upper receiver.

1-6. The barrel is air-cooled and is provided with a flash suppressor and recoil compensator, which serves as a grenade launcher and front support for the bayonet. The barrel is surrounded by a heat resisting fiberglass material, which serves as a hand guard and forearm. The hand guard has a heat resisting metal inner shield. The front sight is adjustable for elevation and the rear sight for windage.

1-7. The rifle has a folding buttstock. (Figure 1-2). The buttstock is made of a durable, synthetic material of high impact strength unaffected by exposure.

1-8. The rifle is readily opened by pressing the guide spring plate forward, providing ready access for removal of the bolt carrier assembly and upper hand guard. Also accessibility to all other working parts for convenient cleaning and inspection. If ever required, the manual charging handle provides a means of forcing the bolt forward to full lock position.

1-9. The bolt incorporates seven locking lugs. Upon closing, the bolt rotates to engage seven silmilar locking lugs in the barrel extension. Thus, the full force of the explosion of the cartridge is absorbed by the barrel extension and bolt. No pressure is exerted upon the receiver. The receiver is made of light-weight steel stampings. The design contributes to a high degree of safety, durability and performance of the rifle. Portability and logistical value is greatly increased due to resultant weight saving.

Section 3

1-10. TABULATED DATA.

1-11. Tabulated data pertaining to the general characteristics and performance are listed as follows:

Weight

lb.
lb.

Length	
Rifle with flash suppressor-compensator	
	43.5 in.
Barrel	
Barrel with flash suppressor	
Mechanical Features	
Rifling, R.H. 6 grooves — 1 turn in 12" Boro Maximum	.2190
	.2235
Groove Maximum	
-	
Trigger pull Maximum	8.5 lbs.
	5.0 lbs.
Mathad of Operation	
Two of Mochanism	Rotating Bolt
Mathad of Fooding Magazine	
Cooling	Air
Ammunition	
Callber	Ball, Tracer & Grenade Launching (Blank)
Firing Characteristics	
Muzzle Velocity (Average)	
Muzzle Energy	
Chamber Pressure	700/800 rds per minute
Maximum Rate of Fire	
Automatic	
Sustained kate of Fire	2653 meters
Maximum Kange	
Maximum Effective Kange	

.

Table 1-1. ACCESSORIES

Item	Identifying Number	Figure Number
Bayonet-Knife AR-18	2862	1-3
Bipod, Rifle AR-18	2773.5	1-3
Case, Bipod	2864	1-3
Scabbard, Bayonet-Knife AR-18	2863	1-3

1 --- 2

Item	Identifying Number	Figure Number
Rod, cleaning, small arms, AR-18	2866	1-3
Brush, cleaning, small arms	2867	1-3

Section 4

1-12. ACCESSORIES AND SPECIAL TOOLS.

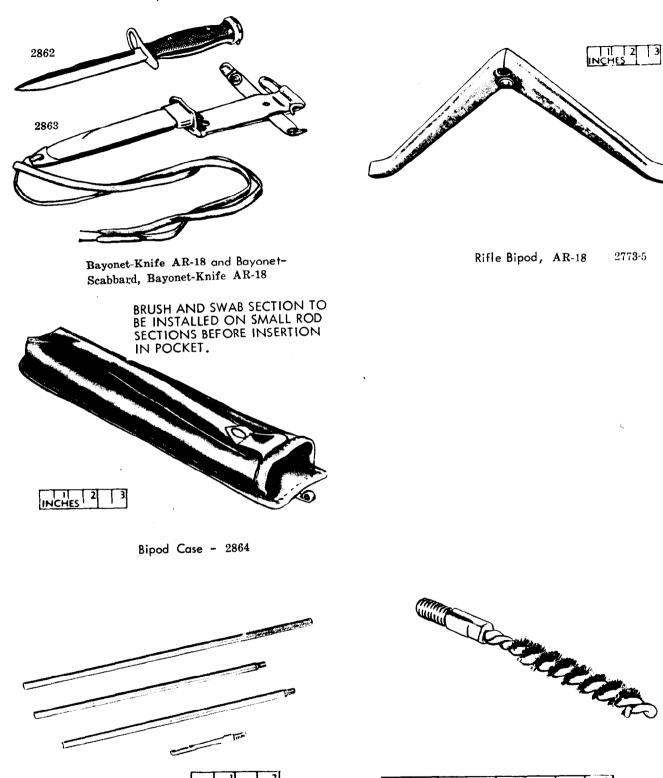
1-13. ACCESSORIES.

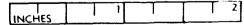
1-14. Accessories are tabulated in Table 1-1 and listed in Apendix I, which is the authority for requisitioning replacements.

1-15. Special Tools.

1-16. Special Tools are tabulated in Table 1-2 and listed in Appendix I, which is the authority for requisitioning replacements.

1 — 3





Small Arms Cleaning Brush - 2867

3

2773-5

Small Arms Cleaning Rod - 2866

INCHES

CHAPTER II **OPERATING INSTRUCTIONS**

Section 1

SERVICE UPON RECEIPT OF MATERIAL. 2-1.

GENERAL. 2-2.

Upon receipt of the rifle, it will be inspected by the responsible individual to determine 2-3that it has not been damaged in-transit and is in proper condition for service.

All basic issue items, replacement parts, tools, and equipment checked as invoiced. 2-4.

A record will be made of all missing parts, tools, and equipment and any other deficiencies 2-5.in the shipment. Corrective action will be initiated by the responsible individual.

SERVICES. 2-6.

2-7. The rifle will be unpacked, all foreign matter removed from the surfaces of the weapon, assuring all components are clean. If necessary, the bore will be wiped clean by pushing clean, dry patches through the barrel, from the chamber to the muzzle.

The rifle will be visually inspected for function to include proper seating of the magazine. 2-8.2-9.BIPOD.

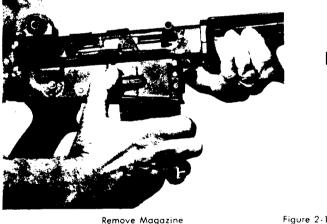
2-10. Foreign matter will be removed from the bipod and case, as necessary.

2-11. The bipod will be attached to the rifle to assure that the bipod is undamaged, suitable for use.

Section 2

2-12.CONTROLS.

2-13.Refer to (Figure 2-1) for Controls and Operation of Controls.





Remove Magazine

Clearing Rifle, Inspect Chamber



Place Selector Lever in Safe Position

Section 3

2-14. OPERATION UNDER USUAL CONDITIONS.

2-15. GENERAL.

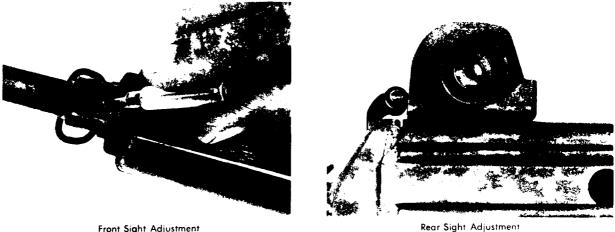
2-16. PREPARATION FOR FIRING. Clear the rifle by performing the following operations: Remove magazine, inspect chamber and place selector lever on "safe" position. (Fig. 2-1.)

2-17. SERVICE BEFORE FIRING. Refer to T. 'les 3-2 and 3-3.

2-18. CLEAN AND LUBRICATE THE BOLT CARRIER GROUP. The bolt carrier group may be removed, as shown in (Figure 3-10.) Remove any oil or dirt from the external surfaces of the bolt and bolt carrier with a clean, dry rag or cleaning patches. Place a drop of oil in each of the two holes of the bolt carrier to lubricate the guide rods and a drop on the body of the bolt. Use oil sparingly, as excess oil may collect foreign matter. Wipe any excess oil from the surface of the bolt carrier. A light film of grease or oil may be applied to the guide rail for the bolt carrier on the left inside of the upper receiver.

2-19. LOADING. Note: Repeat Operation in (Figure 2-1). (Safety Procedure).

2-20. LOADING THE MAGAZINE. The magazine has a capacity of 20 rounds and may be loaded with any amount up to that capacity. The magazine follower has a raised portion generally resembling the outline of a cartridge. Cartridges are loaded into the magazine so that the tips of the bullets point in the same direction as the raised portion of the follower.



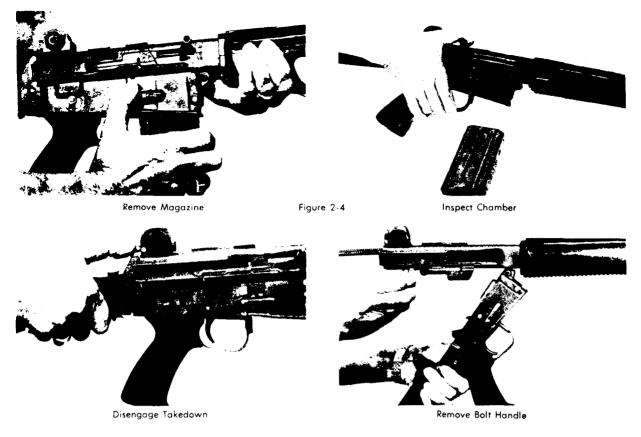
Front Sight Adjustment Figure 2-2

Rear Sight Adjustment Figure 2-3

2-21. LOADING THE RIFLE. The magazine may be inserted with the bolt and the bolt carrier open or closed. Hold the forearm of the rifle with the left hand, pointing the muzzle in a safe direction. With the right hand, insert a loaded magazine into the magazine housing. Push upwards until the magazine gauge engages and holds the magazine. Rap base of magazine sharply with heel of hand to assure positive retention. Check by attempting to withdraw the magazine without use of the magazine release. If the action is open, grasp the charging handle with the right hand, pull to the rear, thus disengaging the bolt stop and release the charging handle. A round will be stripped from the magazine and loaded into the chamber. If the action is closed when the magazine is inserted, pull the charging handle fully to the rear with the right hand and release it. NOTE: Do not "ride" the charging handle forward. If the charging handle is eased forward from the open position, the bolt may fail to rotate and fully lock. If the bolt fails to go all the way forward, push forward on the manual charging handle.

WARNING

Make sure the selector lever is on the "safe" position, if not ready to fire.



2-22. FIRING.

2-23. SELECTOR LEVER. The rifle may be fired semi-automatically or fully automatically by moving the selector lever to the appropriate position, described in Figures 2-1 and 2-5.

2-24. SEMI POSITION. With the selector lever in this position, the rifle will fire one round each time the trigger is pulled.

2-25. AUTO POSITION. With the selector lever in this position, the rifle will continue to fire until the magazine is empty or the trigger is released. When the rifle is fired on either SEMI or AUTO, the bolt will lock in open position when the last round from a magazine has been fired. 2-26. WITH STOCK FOLDED. With the stock folded, the rifle may be fired and readily controlled from the hip position. The selector lever must be positioned from the right side of the rifle, as the folded stock prevents access to the lever on the left side. See Figure 2-5.

2-27. IMMEDIATE ACTION PROCEDURES FOR REMOVING A LIVE ROUND IN CASE OF FAILURE TO FIRE.

2-28. To apply immediate action, follow the sequence below:

a. Wait 10 seconds, then pull charging handle fully to the rear; observe for ejection of cartridge or cartridge case.

- 1. If a cartridge is ejected, release charging handle to feed a new round.
- 2. If a cartridge or case is not ejected, a failure to extract or feed has occurred. Check for round in chamber. If chamber is empty, change magazines, reload and attempt to fire the rifle.

b. If a. 1 above occurs, it may indicate a defective round, a broken firing pin, hammer spring or a bolt closure failure.

c. If a. 2 above occurs, it may indicate a broken extractor.

2-29. MISFIRE, HANG FIRE AND COOK-OFF. In the event of failure of the rifle to fire when the trigger has been pulled and the hammer has fallen, allow ten seconds to elapse in the event of a hang fire and then eject the round and attempt to fire. Cook-off can only result from an excessively heated chamber, caused by full automatic fire requiring approximately 180-200



Figure 2-4 Remove Bolt Assembly, Guide Rods and Springs





Selector Lever Operation with Stock folded

rounds fired in a very minimum period of time. A cook-off can result when the primer is exposed to extremely high temperature, but still will require approximately 30 seconds for the heat to ignite the primer. In the event a cook-off occurs, immediately remove the magazine and eject the chambered cartridge. Under all above conditions, be particularly careful as to the direction the rifle is pointed.

2-30. DOUBLE FEED. Double feed may occur when initially loading the rifle, caused by failure to allow the first round to fully chamber and pulling the charging handle to the rear with the first cartridge still held by the extractor. The bolt carrier, going forward, will attempt to strip the second round from the magazine, resulting in a jammed condition. Remove the magazine and pull the charging handle to the rear, releasing the first cartridge.

2-31. UNLOADING. Repeat operation in figure 2-1 and 2-16.

2-32. INSTALLING ACCESSORIES, figures 2-8 and 2-9.



κιτιε 5.56 m.m., AR-18, Stock Folded in Jump Position Figure 2-6A



Rifle 5.56 m.m., AR-18, Stock Extended in Jump Position Figure 2-6B

Section 4

2-33. OPERATION UNDER UNUSUAL CONDITIONS. If it is desired to fire the rifle with the stock folded, the user should become fully familiar with the operation of the selector lever from the right side of the rifle. The forefinger of the right hand should be used to allow the continued proper hold on the pistol grip (a left handed shooter would use the thumb of the left hand).

2-34. The rifle may be attached to the user for jump purposes, with stock folded or fully extended. See figure 2-6.

2-35. The rifle should be held when launching grenades from a hip position, muzzle elevated, utilizing the sling. See figure 2-7.

NOTE

The rifle should never be fired from the shoulder when launching a grenade.



Launching Grenade Figure 2-7



Remove/Install Bayonet-Knife Figure 2-8



Remove/Install Bipod Figure 2-9

Section 5

2-36. TELESCOPIC SIGHT. Fig. No. 2-10. The telescopic sight is one of extremely durable design with outstanding optical capabilities. It has a true 2.75X magnification.

2-37. The quick detachable mount allows immediate removal or installation. Regardless of the number of times removed, it will return to a positive zero due to the dove tail design of the base and mount. A tunnel over the sight allows use of the iron sight in case of such an immediate requirement.

2-38 A range knob on top of the sight has 4 settings — 1 for 1-200 yards; 1 each for 300, 400 and 500 yards. This rapid and positive elevation system contributes greatly to practical use in the field. The protective cap on the top of the range adjustment knob is removed by the use of the head of a cartridge. Sight elevation adjustments are made under this cap by rotating the elevation knob with the head of a cartridge in the direction of the arrow to move the point of impact up.

2-39. Dust covers are provided and they should be used at all times when the sight is not installed on the rifle or intended for immediate use to protect the lens.

2-40. INSTALLATION. The sight is installed by compressing the safety lever on the front of the mount allowing it to clear the dove tail base on the rifle. The plunger at the rear of the mount is pressed firmly against the front base of the rear sight, compressing the spring allowing the scope mount to slide foreward on the base.

2-41. The sight incorporates an inverted post as well as fine crosshairs. When "holding over" at extreme ranges, this precludes the post from blotting out the target. This comparatively heavy post allows positive point of aim in times of near darkness when the fine cross hairs tend to disappear against the background.

2-42. MAINTENANCE.

- 1. Use lens cover at all times when the sight is not in use on the rifle.
- 2. Check periodically to assure all caps and screws are snug and in place.
- 3. Oil the spring plungers lightly.
- 4. Oil the base occasionally to facilitate mounting and to prevent rusting.

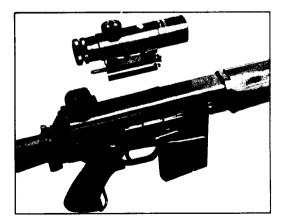


Figure 2-10

CHAPTER III ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I

3-1. REPAIR PARTS, TOOLS AND EQUIPMENT.

3-2. GENERAL.

3-3. This chapter lists repair parts, common tools and equipment and special tools and equipment.

3-4. REPAIR PARTS (2nd Echelon)

PART NO.	DESCRIPTION	QUANTITY
2666-A	Extractor	29
2671-C	Firing Pin	3
2673-B	Take Down Pin, Bolt	3
2668-A	Spring, Extractor	29
2715-C	Spring, Firing Pin	3
2678-A	Spring, Operating Rod	2

3-5. ACCESSORIES AND SPECIAL TOOLS. Accessories and Special Tools are tabulated in Table 3-4.

Section 2

3-6. LUBRICATION.

3-7. GENERAL. The rifle should be cleaned and lubricated at the end of each day's use, or when exposed to an excessive amount of dirt, grit, or other foreign matter and/or water. The rifle should not generally be fired beyond 200 rounds without being cleaned, although, under normal conditions, the rifle can be expected to perform reliably up to approximately 1,000 rounds without cleaning. For best continued operation, all surfaces should be protected by a very light film of oil, except under sub-zero temperatures all oil should be removed from moving components. The rifle can function completely dry, although lack of lubricant is undesirable, due to resultant excessive wear. NOTE: Keep the gas piston clear of excess oil to prevent early formation of carbon.

3-8. CLEANING AND LUBRICATION AFTER FIRING.

3-9. CLEANING AND LUBRICATING THE BARREL.

a. Attach the wire brush to the cleaning rod, dip in solvent cleaning compound and brush the bore thoroughly. Do not submerge barrel in cleaning solution. The gas piston should not be allowed to fill with oil. Brush the bore from chamber to muzzle, using straight-through strokes.

NOTE

Do not reverse direction of brush while in bore.

Push the brush through the bore until it extends beyond the muzzle. Continue until the bore is well covered with solvent. Remove the brush from the rod, and dry the bore by pushing through clean, dry patches. Continue until patches come out clean and dry.

b. Clean the locking lugs in the barrel extension, just to the rear of the chamber. Brush the lugs with a small brush.

c. After cleaning, lubricate the bore with a lightly oiled patch to prevent corrosion and pitting. Lightly oil the lugs in the barrel extension.

d. Remove the individual component parts of the operating rod. Wipe clean with oilsoaked patches. Use the cleaning rod with the brush to clean the gas piston. Remove any excess oil. See Figure 2-6.

3-10. CLEANING AND LUBRICATING THE BOLT CARRIER GROUP.

a. Remove the bolt carrier group from the upper receiver. Field strip the bolt carrier group. Wash all external surfaces with a patch saturated in solvent cleaning compound.

b. Using a small brush dipped in solvent cleaning compound, scrub all carbon deposits and dirt from the locking lugs of the bolt.

CAUTION

Brush the face of the bolt, paying particular attention to area under the face of extractor. Do not attempt to remove discoloration caused by heat.

When dry, lightly oil the surface of the bolt carrier and place one drop on the bolt body. See figure 3-20.

3-11. CLEANING AND LUBRICATING THE LOWER RECEIVER GROUP.

a. Wipe any particles of dirt from the trigger mechanism with a clean patch or brush. b. Place a drop of oil on each of the pins and the stock hinge and release plungers.

Section 3

3-12. PREVENTIVE MAINTENANCE SERVICES.

3-13. GENERAL.

3-14. RESPONSIBILITY. It is the responsibility of the operator to assure his rifle is properly lubricated at all times and is in proper functioning order. If the rifle appears to not be functioning normally, it will be reported to the responsible organizational personnel. (Table 3-1). It will be the responsibility of organizational maintenance personnel to make minor repairs, as indicated in Table 3-3.

3-15. GENERAL.

3-16. GENERAL PROCEDURES. Organizational maintenance personnel will be responsible for the care and preventive maintenance of the rifle when in temporary storage and/or undergoing routine inspection. These personnel are responsible for assurance that the rifle is being properly maintained by the operator and only re-issued when in proper mechanical condition. Evidence of component failure or wear will be reported to higher authority, consistent with standard operating instructions.

Section 4

3-14. TROUBLESHOOTING.

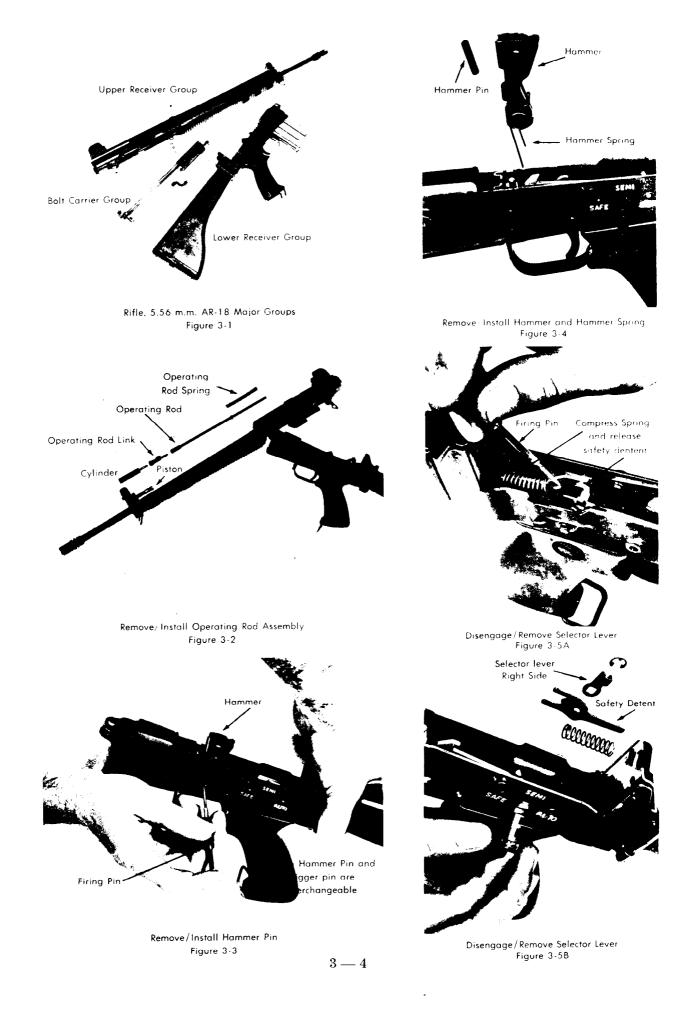
3-15. SCOPE. The following information is to assist the operator and organizational maintenance personnel to restore inoperative or worn, or damaged equipment to a satisfactory operating condition. This includes both determination of the cause (trouble shooting) and corrective action. All repair maintenance indicated shall be performed only by qualified personnel utilizing standard service equipment. Table 3-1. .

Malfunction	Probable Cause	Remedy
Bolt fails to lock to the rear after last round.	1. Faulty magazine.	Replace magazine.
Failure to feed.	 Faulty magazine. Binding bolt and bolt carrier in locked position. 	Replace magazine. Disassemble and clean (on a new weapon, one or two drops of oil on the guide rods may remedy this trouble). Check firing pin and spring and oil. Clean and lubricate bolt and carrier, higher echelon.
Failure to fire.	 Improper assembly of firing pin. Improperly installed hammer or trigger spring. Obstructed chamber. 	Reinstall firing pin and check bolt takedown pin for damage. Also check spring and replace if broken. Disassemble and install properly. Clean.
Fires with selector lever on SAFE.	1. Faulty selector lever.	Higher echelon.
With selector lever on SEMI, fires when trigger is released.	 Faulty or misalined trigger pin. Faulty or misalined trigger pin. Faulty hammer or trigger. 	Replace trigger pin. Notify higher echelon. Notify higher echelon.
Bolt seizes, will not rotate.	1. Carbon dirty or burred bolt group.	Hold rifle in vertical position and strike butt <i>sharply</i> on ground while pushing down on charging handle. Clean as necessary.

Section 5

3-16. MAINTENANCE OF RIFLE.

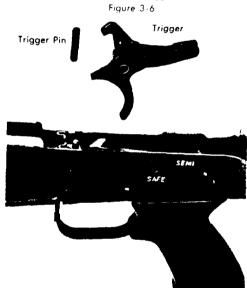
3-17. DISASSEMBLY/ASSEMBLY. This section contains instruction on disassembly, assembly and maintenance, before and after firing. For disassembly and assembly instructions, see figures 3-1 thru 3-19.





1

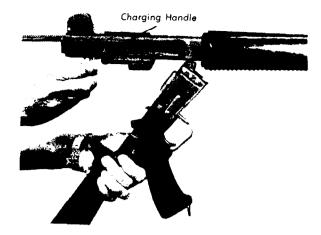
Remove/Install Trigger Pin



Remove/Install Trigger Figure 3-7



Disengage/Engage Takedow Figure 3-8



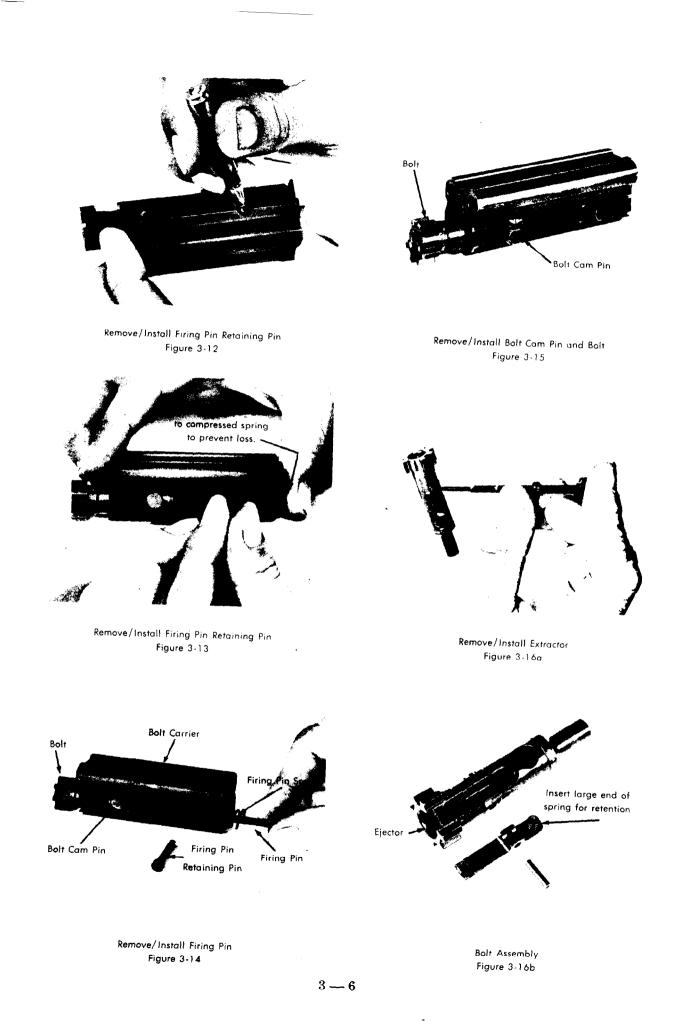
Withdraw/Insert Charging Handle Figure 3-9



Remove/Install Bolt Carrier, Guide Rods and Guide Rod Springs Figure 3-10 .



Remove/Install Upper Hand Guard Figure 3-11



3-18. CLEANING, INSPECTION AND REPAIR.

3-19. BEFORE FIRING. The rifle should be inspected as indicated in Section 3, Chapter II, 2-14.

3-20. AFTER FIRING.

a. Cleaning after Firing: Table 3-2 and 3-3.

b. Inspection after Firing: Table 3-4.

3-21. REPLACEMENT OF PARTS.

3-22. All replacement parts are interchangeable and require no adjustments when being installed in this rifle. However, to insure proper function and full reliability, the following precautions should be taken:

a. Do not interchange bolts, bolt carrier₃ and barrels. Keep the bolt carrier assembly with its original barrel to assure retention of correct headspace.

b. If replacement of either part becomes necessary, carefully check the new part to see that it fits properly and operates smoothly.

3-23. FUNCTION CHECK.

NOTE

Remove Magazine

3-24. A complete function check of the rifle consists of checking the operation of the rifle while the selector lever is in the SAFE, SEMI, and AUTO positions. The following sequence is used for a rapid, complete check. Any portion of the check may be used alone to determine the operational condition of any specific fire selection. Start with the upper and lower receiver groups in the open position.

NOTE

Receiver is in open position

a. SAFE position. Cock hammer and pull trigger. Hammer should not fall.

b. SEMI position. Pull trigger. The hammer should fall. Hold trigger to rear, recock hammer and release trigger. Hammer should transfer from disconnect to the hammer and sear engagement.

NOTE

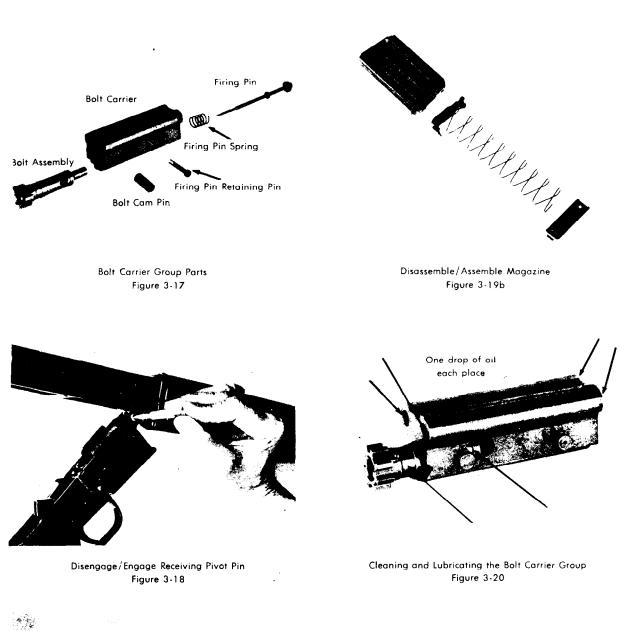
Receiver is in closed position

c. AUTO position. Pull trigger, hammer should fall. Hold trigger to the rear and operate charging handle, recocking the hammer. Release charging handle. The hammer should fall. Release trigger and operate charging handle, cocking hammer. Release charging handle. Hammer should not fall. For further safety check, while cocked with safety on, rap butt on floor. If hammer falls, turn in for repair.

d. SEMI position. Pull the charging handle to the rear. Inspect the chamber for safety and release charging handle. Pull the trigger. Hammer should fall.

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Disassemble/Assemble Magazine Figure 3-19a

Interval & Sequence No.					
Before During After		Operator Daily		Daily Schedule	
Firing	Firing	Firing	Item to be Inspected	Procedures	Paragraph References
1			Barrel Assembly	Wipe oil from bore and chamber.	
2			Bolt As- sembly & Barrel	Retract bolt to assure free move- ment between bolt carrier and re- ceiver.	
3			Rifle	Hand function to assu re proper operation.	
4			Lower Re- ceiver & Magazine	Check magazine for positive reten- tion and functioning of bolt catch.	
		5	Barrel, Barrel Ex- tension, Bolt Carrier Assembly	Clean and lubricate. Particular at- tention to clean bolt carrier and bolt assembly.	~

Table 3-2.PREVENTIVE MAINTENANCE SERVICES

Table 3-3.

PREVENTIVE MAINTENANCE SERVICES

Sequence No.	Organizational Maintenance Personnel	l Weekly Schedule		
	Item to be Inspect ed	Procedures	Paragraph References	
1	Barrel & Bolt Assembly	Inspect for adequate and not excessive lubrication.		
2	Rifle	Hand function to assure proper operation.*		
3	Lower Receiver & Magazine	Check magaizne for positive reten- tion & functioning of bolt catch.*		
4	Bolt Assembly	Inspect extractor for cracks. Check extractor spring for proper ten- sion.*		
5	Barrel, Bolt Assembly, Guide Rods, Lower Re- ceiver, Operat- ing Rod	Inspect for cleanliness & Lubrica- tion.* *Prior to issue.		

Table 3-4.

INSPECTION

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Part, Components or Area	Instructions
Barrel and Barrel Extension	Inspect surfaces for cracks or defects.
	Check barrel extension for burrs, broken or worn locking lugs. Inspect bore for damage.
Front Sight & Operating Rod.	Check front sight and operating rod for cracks and general condition.
Upper & Lower Receiver Groups.	Inspect the receivers and all parts for cracks.
	Inspect all parts for wear or damage.
	Check springs for condition, straightness and tension.
Bolt and Bolt Carrier.	Check for cracks in bolt.
	Inspect bolt for condition of locking lugs, pitted or chipped bolt face, and elongated firing pin hole.
	Inspect firing pin for wear and burrs.
	Inspect bolt carrier for cracks, burrs and chips.
	Check socket head cap screws for being staked.

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APPENDIX I BASIC ISSUE ITEMS LIST

Section I

1-1. PREFACE. This appendix list the basic issue items, tools, equipment and replacement parts for rifle, 5.56 mm, AR-18.

Section 2

1-2. BASIC ISSUE ITEMS. The group listings are a breakdown of equipment by a physical description supported by illustrations.

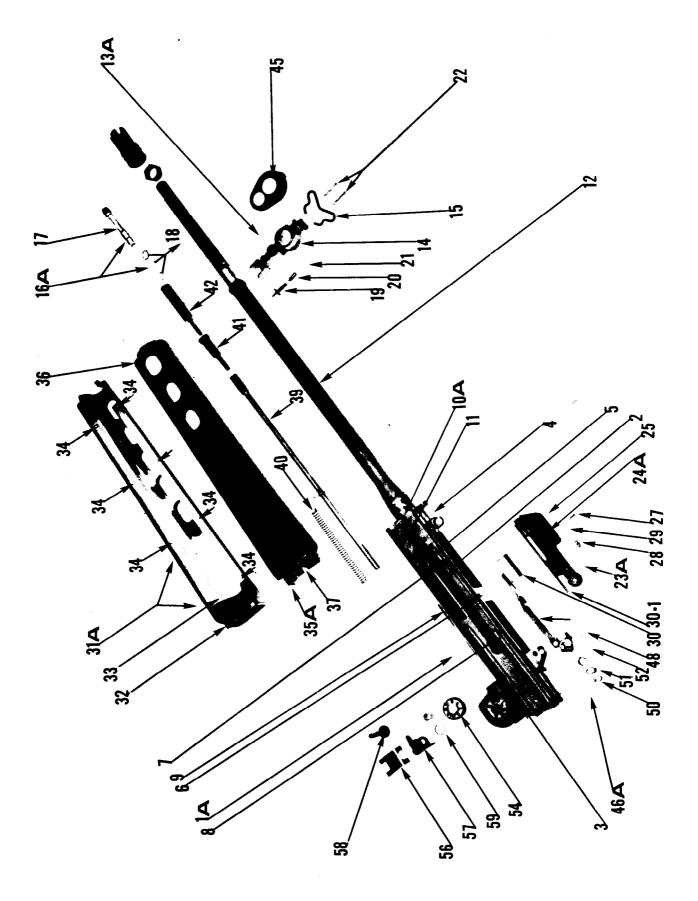
(Figures 1-2-3 exploded views).

1-3. MAJOR ITEMS.

Figure & Index No.	Manufa cturer Stock No.	Description	Unit of Issue	Quantity Incorporated in Unit	Organizational	15-Day Maint. Allow Per 100 Equipment	
		UPPER RECEIVER GROUP					
1A*	2632	Assy, Weld & Rivet, Upper Receiver		[
$\frac{1}{2}$ *	2631	Receiver, Upper		1			
$\frac{2}{3}$ *	2680	Housing, Rear Sight					
4 *	2580	Extension, Barrel					
5 *	2674	Guide Track, Upper Receiver		1			
6	2589	Rivet, Auto Sear	1	1			
7 *	2840	Lug, Front, Dust Cover		1			
8 *	2841	Lug, Rear, Dust Cover		1			
9 *	2785	Plate, Scope Mount		1			
10A	2679	Assy, Barrel To Upper Receiver	1				
11 *	2632	Upper Receiver Weld & Rivet Assy.	-	1			
12 *	2626	Barrel	1	ī			
13A*	2856	Assy, Front Sight	1				
14 *	2634	Front Sight (Factory or Ordnance		1	(1.0)		
		Installation Only)		1	(1.0)		
15	2776	Swivel Sling, Front Sight	1	1			
16A	2857	Assy, Piston Front Sight					
17	2643	Piston, Front Sight		1			
18	2763	Ring, Piston	3	3			
19	2635	Blade, Front Sight	1	1			
20	2636	Plunger, Front Sight	1	1			
21	2677	Spring, Plunger, Front Sight	1	1			
22	2637	Taper Pin, Front Sight	2	2			
23A	2855	Assy, Dust Cover	1				
24A	2845	Weld Assy, Dust Cover	1	1			
25 *	2837	Cover, Dust		1		1	
26 *	2842	Cam Follower, Dust Cover		1			
27	2844	Spring, Plunger, Dust Cover	1	1			
28	2843	Plunger, Cam Follower, Dust Cover	1	1			
29 23	2780-1	Roll Pin	1	1		ĺ	
30	2838	Spring, Hinge Pin, Dust Cover	1	1			

GROUP ASSEMBLY PARTS LIST

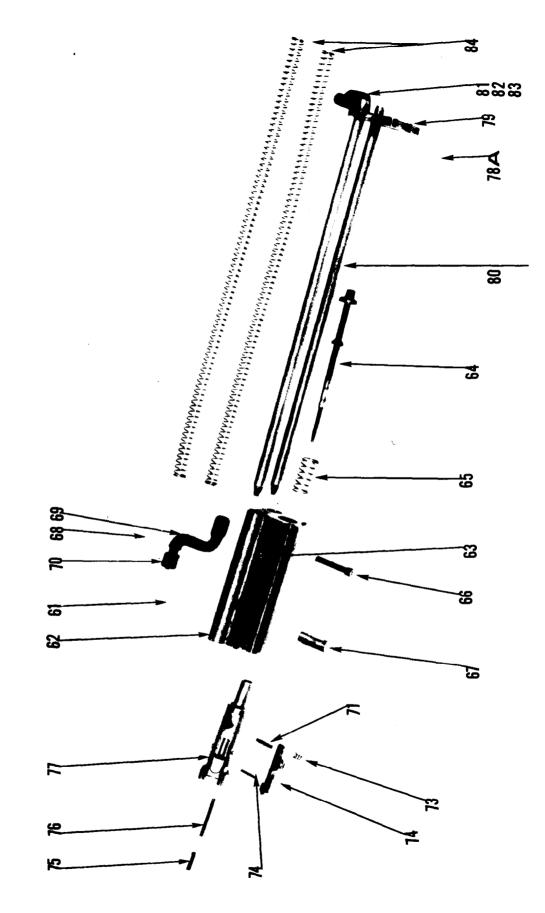
* Indicates part of an assy. not to be ordered separately.



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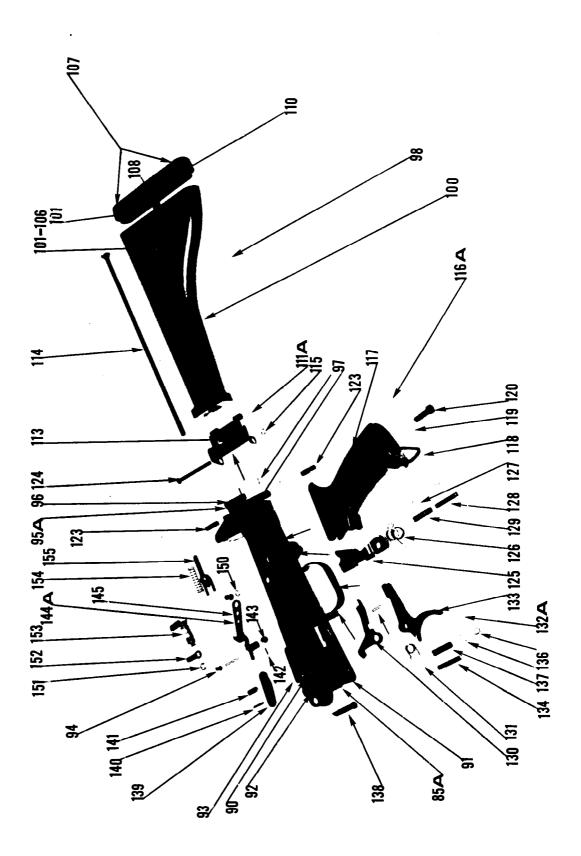
GROUP ASSEMBLY PARTS LIST

Figure & Index No.	Manufacturer Stock	, Description	Unit of Issue	Quantity Incorporated in Unit	ational	15-Day Maint. Allow Per 100 Equipment
Figure	No.		Unit	Quantity	Organizational	
30-1 31A 32 * 33 *	2839 2717 2629 2663	Hinge Pin, Dust Cover Assy, Upper Hand Guard Hand Guard Upper Liner, Upper Hand Guard	1 1	1 1 1		
34 35A 36 * 37 * 38	2779 2716 2630 2664 2779	Drive Screw Assy, Lower Hand Guard Hand Guard, Lower Liner, Hand Guard, Upper Drive Screw	8 1 8	8 1 1 8		
39 40 41 42 43	2641 2678 2639 2642 2846	Operating Rod Spring, Operating Rod Link, Operating Rod Cylinder, Operating Rod Nut, Recoil Compensator	1 1 1 1 1	1 1 1 1 1	(1.0)	
44 45 46A 47A 48 *	2775 2644 2703 2734 2587	Recoil, Compensator Cap, Hand Guard Assy, Auto Sear Rivet Assy, Auto Sear Sear, Automatic	1 1 1	1 1 1		L.
49 * 50 * 51 52	2654 2655 2656 2675	Extension, Auto Sear Pivot Pin, Sear Extension Bushing, Auto Sear Spring, Auto Sear	1 1 1 1	1 1 1 1		
53 54 55 56 57	2659 2685 2676 2682 2681	Pivot Pin, Auto Sear Drum, Windage, Rear Sight Spring, Rear Sight Spring, Flat, Rear Sight Aperature, Rear Sight	1 1 1 1 1	1 1 1 1 1		
5 8 59 60	2683 2791 2853-1	Screw, Windage Rear Sight Protector, Rear Sight Screw Snap Ring, Rear Sight BOLT GROUP	1 1 1	1 1 1		
61A 62 * 63 *	2705 2646 2684	Assy, Bolt Carrier Carrier, Bolt Pin, Press Fit, Bolt Carrier	1	1		
64 65 66 67	2671 2715 2673 2590	Firing, Pin Spring, Firing Pin Take Down Pin, Bolt Pin, Cam	1 1 1 1	1 1 1 1	(1.0) (1.0) (1.0)	
68A 69 * 70 * 71	2836 2594 2835 2667	Assy, Charging Handle Handle, Charging Key, Charging Handle Pin, Extractor	1	1 1 1	(1.0)	
72 73 74 75 76	2668 2666 2780-3 2669 2670	Spring, Extractor Extractor Roll Pin, Ejector Ejector Spring, Ejector	1 1 1 1	1 1 1 1 1	(1.0)	
77	2665	Bolt	1	1		



GROUP ASSEMBLY PARTS LIST

Figure & Index No.	Manufacturer Stock No.	Description	Unit of Issue	Quantity Incorporated in Unit	Organizational	15-Day Maint. Allow Per 100 Equipment
78A 79 * 80 * 81 82 83 84	2662 2660 2661 2764 2765 2780-1 2606	Assy, Stake, Guide Rod Forging, Plate, Guide Rods Guide Rod Plunger, Guide Rod Plate Spring, Plunger, Guide Rod Plate Roll Pin, Plunger, Guide Rod Plate Spring, Action	1 1 1 1 1 2	1 2 1 1 1 2		
85A 86 87A* 83 * 90 * 91 * 92 * 93 * 95 * 95 * 96 * 97 *	2628 2687 2858 2645 2623 2772-1 2627 2782 2658 2604 2753 2744 RC 5133-15 2746	LOWER RECEIVER GROUP Assy, Weld & Rivet, Lower Receiver Rivet, Trigger Guard Weld Assy, Trigger Guard Trigger Guard Nut, Pistol Grip Post, Snap, Fastener Receiver, Lower Bracket, Lower Receiver Bracket, Magazine Latch Bushing, Bolt Catch Weld Assy, Bulkhead Bulkhead, Receiver Plate, Bulkhead	1	2 1 1 1 1 1 1 1 1 1		
98A 99A* 100 * 101 * 102 * 103 * 104 * 105 * 106 * 107A 108 * 109 * 110 111A 112 *	2708 2859 2614 2772-2 RC 5133-18 2772-5 2772-4 2772-3 2772-6 2852-1 2860 2618 2621 2774 2752 2760	Assy, Buttstock Assy, Fastener, Buttstock Buttstock Cover, Snap Fastener Spacer, Snap Fastener Plate, Snap Fastener Rivet, Snap Fastener Washer, Plain, Snap Fastener Assy, Buttcap Buttcap Recoil Pad Screw, Recoil Pad Weld Assy, Hinge, Buttstock Hinge, Buttstock	1 2 1	1 8 2 1 4 4 1 1 2 1		ر
113 * 114 115 116A 117 * 118 * 119 120 121 122 123 124 125 126	2754 2620 2854-1 2861 RC 5133-15 2617 2696 2723 2622 2780-2 094-0562 2672 2672 2761 2586 2609 2653	Nut, Buttstock Hinge Screw, Buttstock Snap Ring, Hinge Pin, Stock Assy, Pistol Grip Pistol Grip Sling, Swivel, Pistol Grip Washer, Plain, Pistol Grip Bolt, Pistol Grip Roll Pin, Plunger, Bulkhead Spring, Plunger, Bulkhead Plunger, Bulkhead Hinge Pin Hammer Spring, Hammer	1 1 1 2 1 2 1 1 1	1 1 1 1 1 1 2 1 2 1 1 1		



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GROUP ASSEMBLY PARTS LIST

		dicout modember raine mor				
Figure & Index No.	Manufacturer Stock No.	Description	Unit of Issue	Quantity Incorporated in Unit	Organizational	15-Day Maint. Allow Per 100 Equipment
127 128 129 130 131 132A 133 * 134 * 135 136 137 138 139 140 141 142 143 144A 145 * 146 * 147 148 149 150 151 152 153 154 155 156 158 159 160 161 162 163 164 165	$\begin{array}{c} 2651\\ 2650\\ 2610\\ 2607\\ 2695\\ 2712\\ 2647\\ 2608\\ 2652\\ 2694\\ 2648\\ 2781\\ 2657\\ 2780-4\\ 27702\\ 2780-2\\ 2603\\ 2601\\ 2597\\ 2599\\ 2602\\ 2600\\ 2605\\ 2854-4\\ 2854-1\\ 2768\\ 2595\\ 2701\\ 2598\\ \end{array}$	Snap Ring, Hammer, Trigger Pin, Hammer, Trigger Bushing, Hammer Disconnect, Trigger Spring, Disconnect Assy, Riveted, Trigger Trigger Assy Pin, Trigger Spacer, Trigger Bushing, Trigger Takedown Pin, U & L Receivers Latch, Magazine Roll Pin, Magazine Latch Spring, Magazine Latch Roll Pin, Bolt Catch Retainer, Spring, Bolt Catch Weld Assy, Bolt Catch Bolt Catch Housing, Plunger, Bolt Catch Spring, Plunger, Bolt Catch Spring, Plunger, Bolt Catch Pin, Bolt Catch Snap Ring, Bolt Catch Snap Ring, Safety Lever Lever, Safety Casting, Safety Detent Detent, Safety Spring, Safety Detent Detent, Safety Spring, Safety Detent Detent, Safety Spring, Asfety Boltent Detent, Safety Spring, Safety Detent Detent, Safety Spring, Asfety Spring, AR-18 Case, Bipod, AR-18 Scope, 2.75 x 20mm with mount, AR-18 Cleaning Rod, AR-18 Bore Brush, Caliber. 22 Sling, AR-18	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(4.0)	