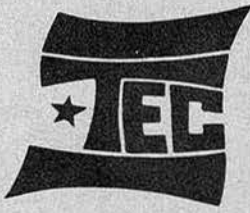
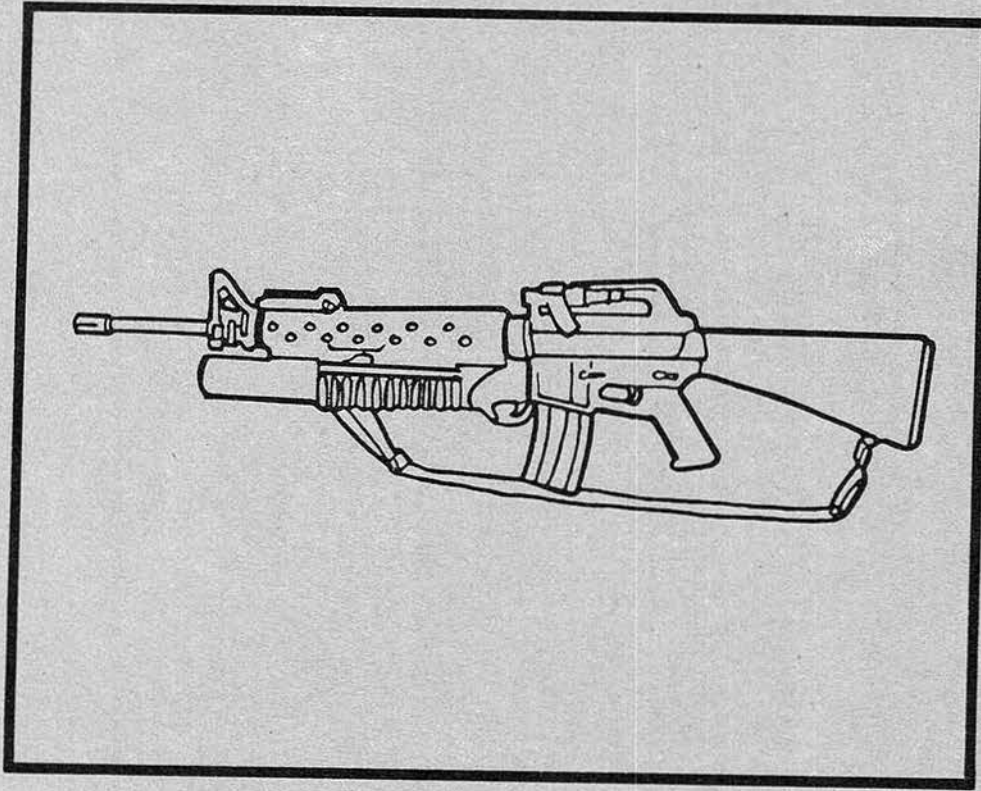


# DISASSEMBLY AND ASSEMBLY OF THE M203 GRENADE LAUNCHER

TEC LESSON NO. 551-101-8359-A



PRODUCED BY  
US ARMY QUARTERMASTER  
SCHOOL  
FORT LEE, VIRGINIA



January 1982

Student/Supervisor Instructions and Pretest/Posttest are  
contained within this  
Lesson

Digitized by:

READ THE STUDENT/SUPERVISOR INSTRUCTIONS CAREFULLY.  
BE SURE YOU UNDERSTAND THEM BEFORE CONTINUING THE LESSON.

When used in this publication, "he," "him," "his,"  
and "men" represent both the masculine and feminine  
genders unless otherwise stated.

January 1982

## STUDENT/SUPERVISOR INSTRUCTIONS

### AUDIENCE

- MOS 76Y
- Skill levels 1 and 2

### TRAINING OBJECTIVE

Given the equipment and materials required, the soldier will be able to:

- Disassemble the M203 grenade launcher
- Assemble the M203 grenade launcher

### MATERIAL/EQUIPMENT/PERSONNEL REQUIRED TO COMPLETE THIS LESSON

- Pen or pencil
- Lesson booklet
- M16A1 rifle with M203 grenade launcher attached
- Armorer tool kit
- One shell casing
- GTA No. 10-8-3, M203 Layout Chart
- TM 9-1010-221-24

### TIME REQUIRED

- Soldier must complete the task within 1 hour.

### REFERENCES

- TM 9-1010-221-24

## STUDENT INSTRUCTIONS

- Before taking this lesson, complete TEC Lesson No. 551-101-8358-A, "Preparation of the M203 Grenade Launcher."
- Take the pretest. If you pass the pretest, you need not take this lesson.
- Insure that you have all material, equipment, or personnel required to complete this lesson.
- Read this lesson. Practice each step in the lesson until you can do it without looking at the book.
- Take the posttest. If you do not pass, read the lesson again and repeat the test.
- It is very important that you read every step in this lesson. Do not skip around and do the steps out of order. You could hurt yourself or harm the equipment. Do not do anything that is not explained in the lesson booklet, and observe all safety warnings. Safety warnings are printed in red. These are cautions or warnings you must observe so that you do not injure yourself or harm the equipment.
- Keep track of all dummy rounds. Keep them locked in your tool kit or some other location separate from live ammunition.
- Always clear any weapon before you work on it.
- Read all CAUTIONS printed in red BEFORE doing the next step.
- Be extra careful when working with springs that can fly out. Wear safety goggles.
- Do not write on this lesson booklet.

## SUPERVISOR INSTRUCTIONS

- Insure that the student has completed the prerequisites listed above.
- Insure that the student has all material, equipment, or personnel required to complete this lesson.

- This lesson is self-teaching and self-paced. The soldier will learn the task by reading and doing the steps in the lesson. He can use as much time as needed, within reasonable limits, to learn the task.
- As a supervisor, you should be familiar with the lesson material so you can answer questions, score tests, and insure that all safety precautions and warnings are followed.
- Although this is a self-teaching program, it may be necessary for you to assist the soldier if he has difficulties. Everything the soldier needs to know to pass the test is in this booklet. When a soldier does not understand a step, it is usually because he is going too fast and skips a step. Reading the section again will often solve the problem. Occasionally, a soldier will not understand the whole lesson. If you are familiar with the weapon, you may explain the steps; or, if you will read the lesson yourself, you should be able to explain it to the soldier. If the weapon becomes jammed or is disassembled beyond organizational level, and neither you nor the soldier can remedy the problem, take it to direct support maintenance for repair.
- Allow the student to read the lesson and practice the task before testing.
- Follow set-up and scoring instructions for the test.
- Do not aid the soldier in taking the test.
- Observe the soldier's performance in the pretest/posttest.
- Score each performance measure as GO/NO GO.
- Be sure the soldier completes the task within the required time limit.

## PRETEST/POSTTEST

Type of Lesson: Quartermaster

TEC Lesson No.  
551-101-8359-A

### Disassembly and assembly of the M203 Grenade Launcher

#### General Information

This pretest/posttest covers the disassembly and assembly of the M203 grenade launcher. In order to pass the test, the soldier must receive a GO on all performance measures and must complete the task within 1 hour. The following items must be arranged on a table for the soldier's use during the test:

M16A1 rifle with M203 grenade launcher attached  
TM 9-1010-221-24

GTA No. 10-8-3, M203 Layout Chart

Tools:

Punch, 3/32 pt. dia in., NSN 5120-00-242-3435

Punch, 1/8 pt. dia in., NSN 5120-00-242-5966

Screwdriver, 1/4 in., NSN 5120-00-764-8058

Screwdriver, Phillips No. 1, NSN 5120-00-764-8080

The scorer must have a watch, a pen or pencil, paper, and the list of performance measures.

#### Test Instructions:

Your task is to clear both the M16A1 rifle and the M203 grenade launcher, then disassemble and assemble the M203 grenade launcher and perform a function check. All the tools, parts, materials, supplies, and forms that you need are also on the table. You will have one hour to complete the test.

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#### NOTE TO SUPERVISOR/SCORER:

Please review the supervisor instructions at the beginning of this lesson and the information printed above. Be sure that all of the items listed above are available for use during the test. Read aloud the test instructions to the soldier and begin timing his performance. Do not let the soldier continue past the time limit. On a separate sheet of paper, write GO or NO GO for each of the performance measures listed on the next page.

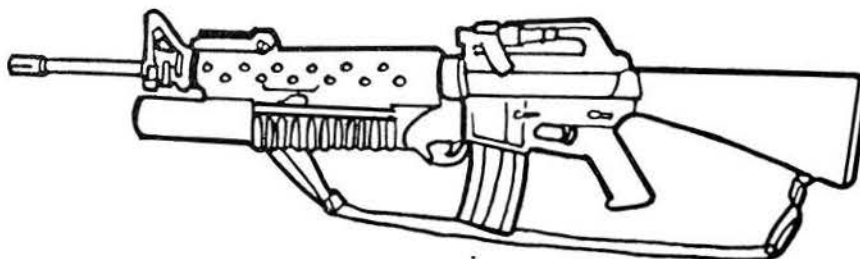
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DO NOT WRITE ON THIS TEST.

Performance Measures:

	<u>GO</u>	<u>NO GO</u>
1. The soldier clears the M16A1 rifle.	_____	_____
2. The soldier clears the M203 grenade launcher.	_____	_____
3. The soldier disassembles the weapon. The following parts are on the table:		
a. Handguard	_____	_____
b. Barrel assembly	_____	_____
c. Quadrant sight group	_____	_____
d. Special screw	_____	_____
e. Quadrant sight clamp	_____	_____
f. Sight post	_____	_____
g. Machine screw	_____	_____
h. Lock washer	_____	_____
i. Sight leaf	_____	_____
j. Sight leaf base	_____	_____
k. Sight leaf base screws (2)	_____	_____
l. Lower receiver (M16)	_____	_____
m. Upper receiver (M16)	_____	_____
n. Backplate	_____	_____
o. Follower	_____	_____
4. The soldier assembles the weapon. No parts are left on the table.	_____	_____
5. The soldier performs a function check:		
a. The soldier presses the barrel latch and slides the barrel forward.	_____	_____
b. The soldier pulls the barrel back.	_____	_____
c. The soldier squeezes the trigger.	_____	_____
6. After assembly, the scorer will visually inspect for the following parts:		
a. Handguard	_____	_____
b. Quadrant sight assembly	_____	_____
c. Sight lead assembly	_____	_____
d. Backplate	_____	_____
7. The soldier completes the test within 1 hour.	_____	_____

## DISASSEMBLY AND ASSEMBLY OF THE M203 GRENADE LAUNCHER



The M16A1 Rifle with M203 Grenade Launcher Attached

### INTRODUCTION:

This is TEC Lesson No. 551-101-8359-A, "Disassembly and Assembly of the M203 Grenade Launcher." This lesson will show you how to disassemble and assemble the weapon to the level required by your job. By disassembly and assembly, we mean taking the weapon apart and putting it back together. Always remember to CLEAR THE WEAPON first. Whenever you pick up a rifle with the grenade launcher attached, CLEAR THE RIFLE and CLEAR THE GRENADE LAUNCHER. When you are finished working with the rifle and grenade launcher, CLEAR THEM.

### EQUIPMENT/MATERIALS REQUIRED:

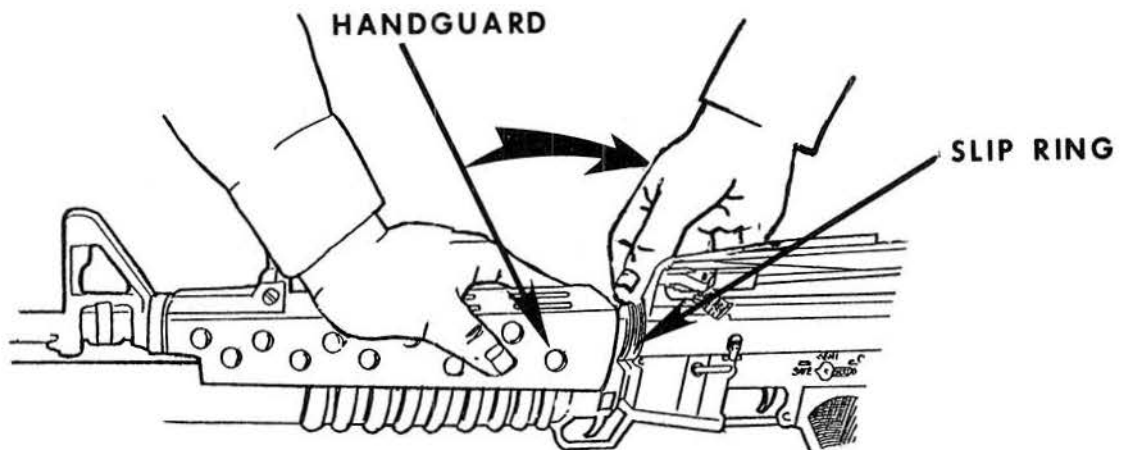
Items listed in Student/Supervisor Instructions on page i.

## DISASSEMBLY AND ASSEMBLY

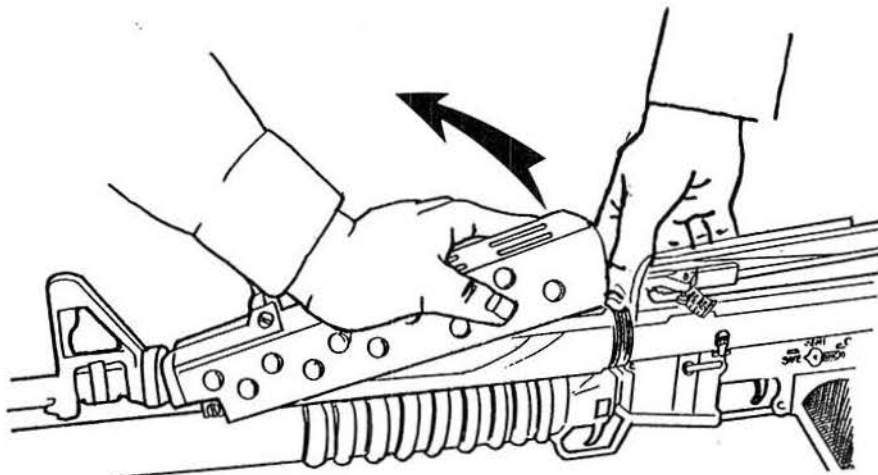
As you remove each part, put it on the layout chart. This will help you learn the name of each part.

### REMOVE HANDGUARD

STEP 1: Pull back on the slip ring.

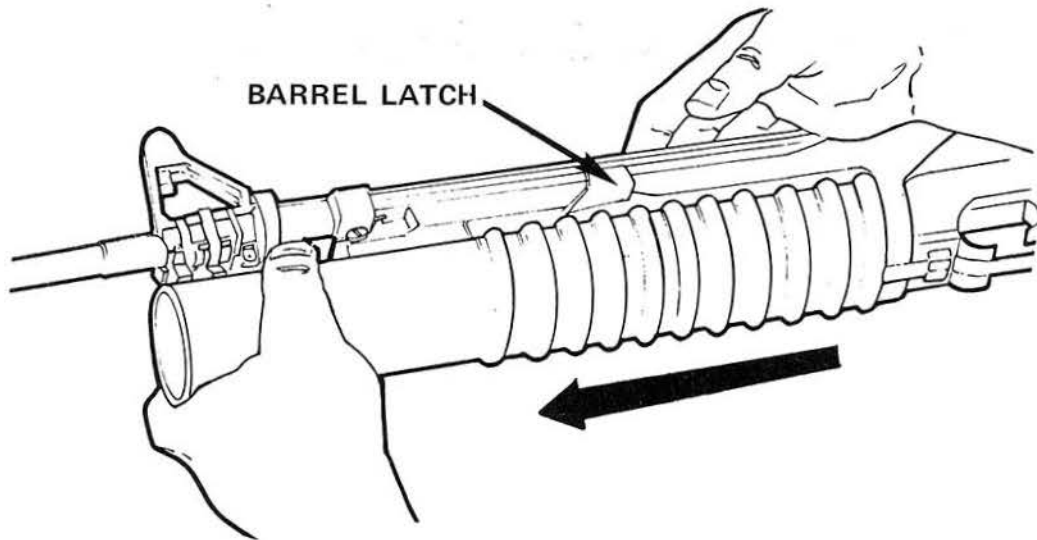


STEP 2: Lift the handguard up and pull it off the launcher.

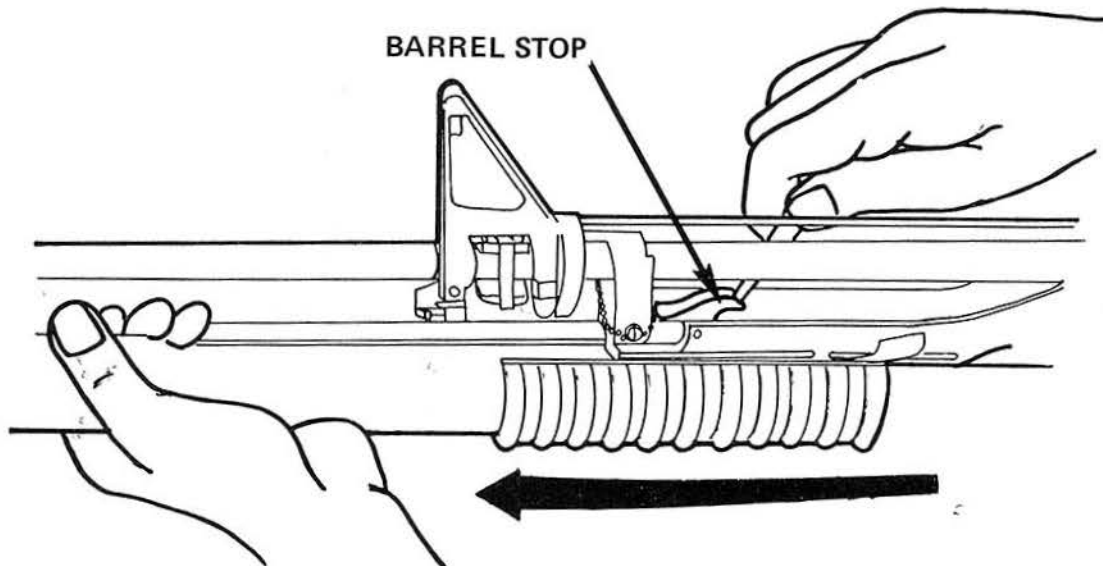


REMOVE BARREL ASSEMBLY

STEP 1: Press down on the barrel latch and pull the barrel assembly all the way forward.

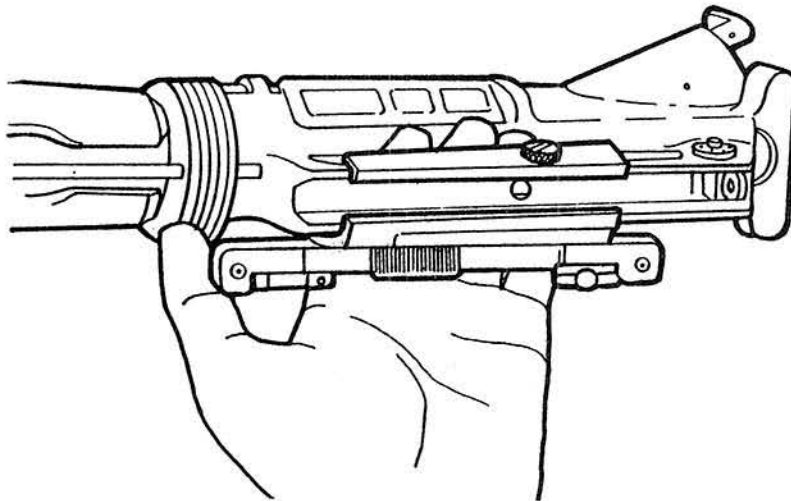


STEP 2: Push the barrel stop down with a  $\frac{1}{4}$ -inch punch and pull the barrel assembly off of the launcher.

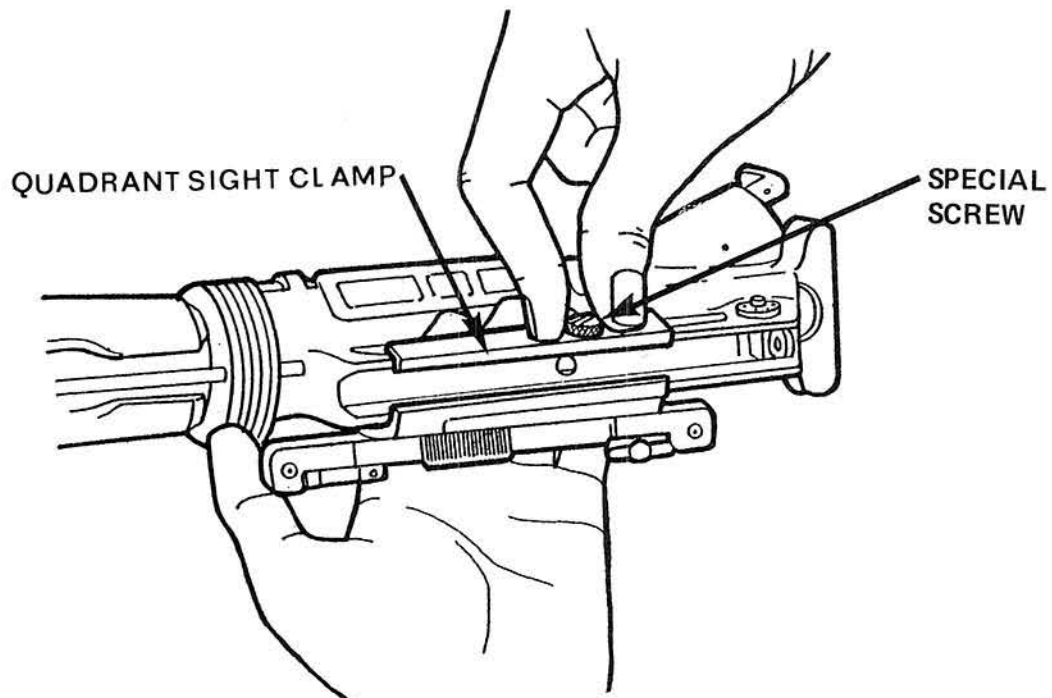


## REMOVE QUADRANT SIGHT ASSEMBLY

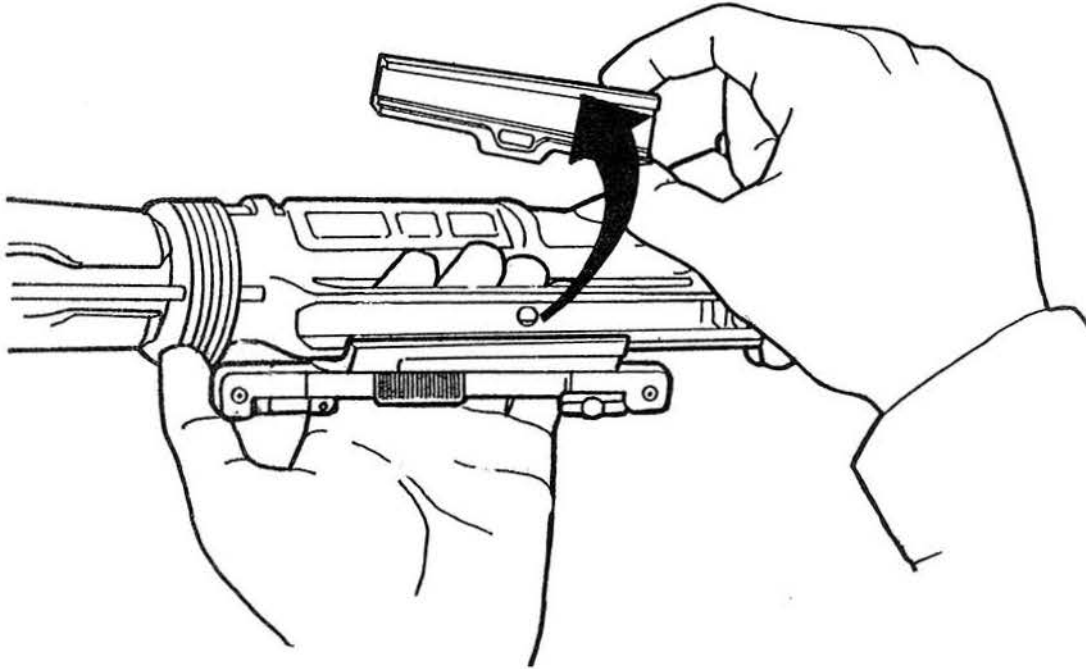
NOTE: Before you remove the quadrant sight assembly, study how it is assembled on the M16A1 rifle carrying handle.



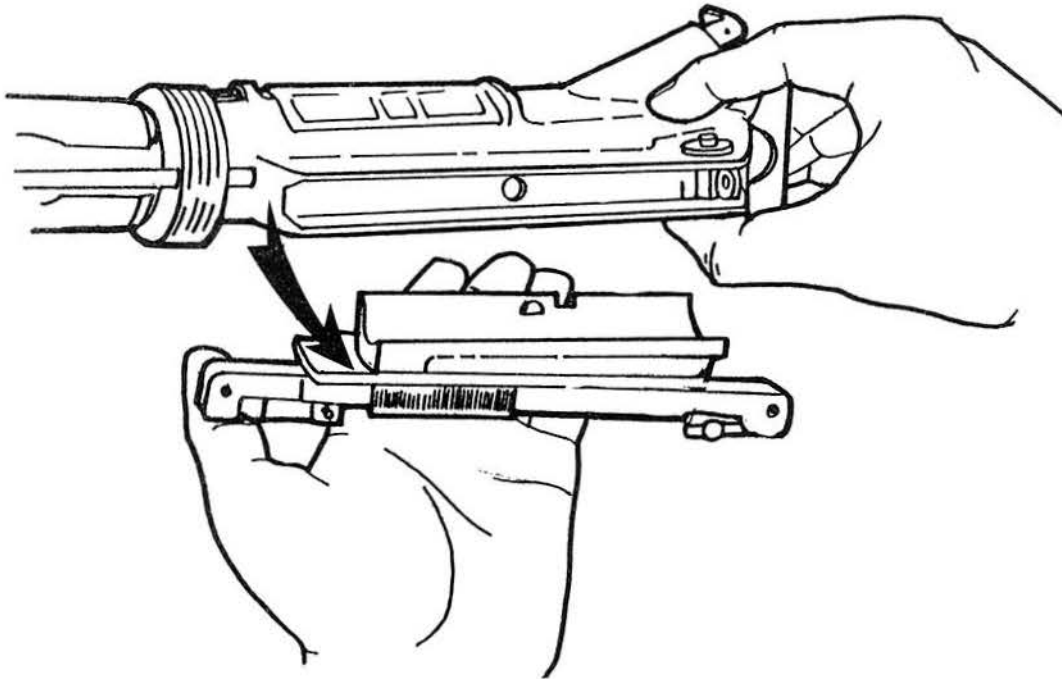
STEP 1: Tilt the receiver of the M16A1 rifle up. Unscrew the special screw from the quadrant sight clamp.



STEP 2: Lift off the quadrant sight clamp.

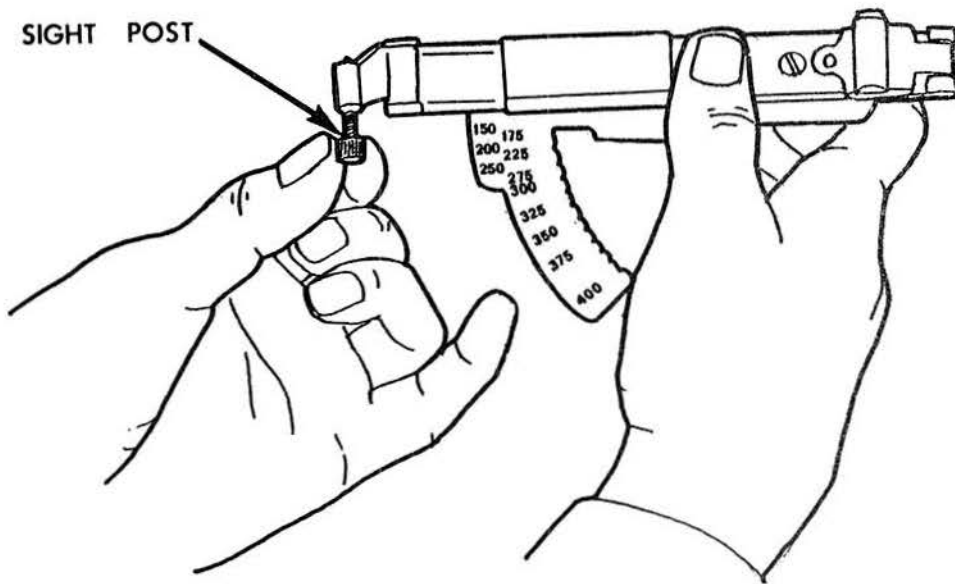


STEP 3: Lift off the quadrant sight group.



DISASSEMBLE QUADRANT SIGHT GROUP

STEP 1: Unscrew the sight post from the sight post arm.

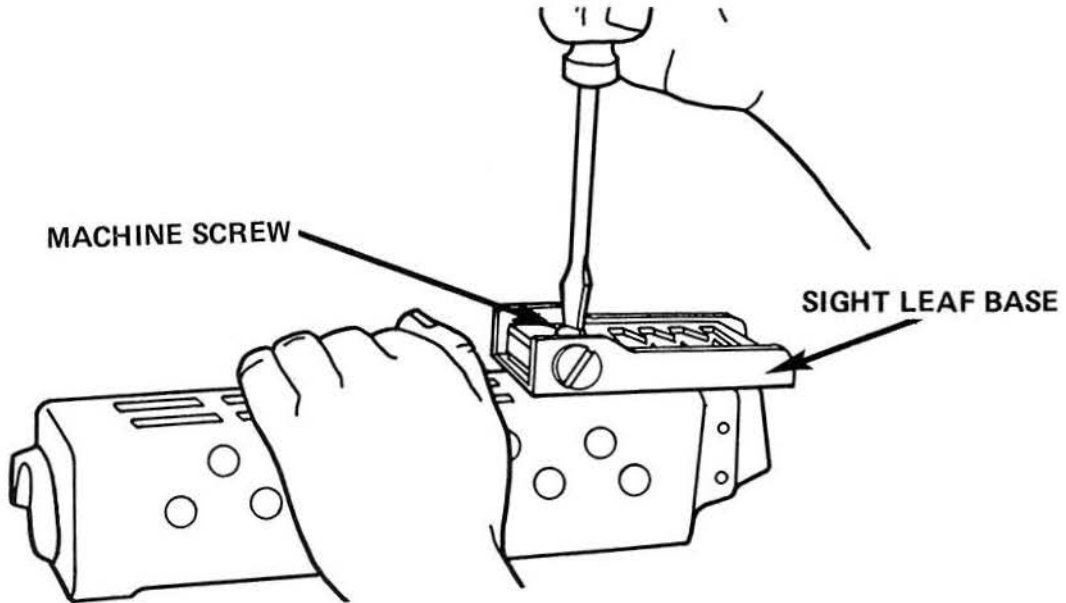


You have now disassembled the quadrant sight group.

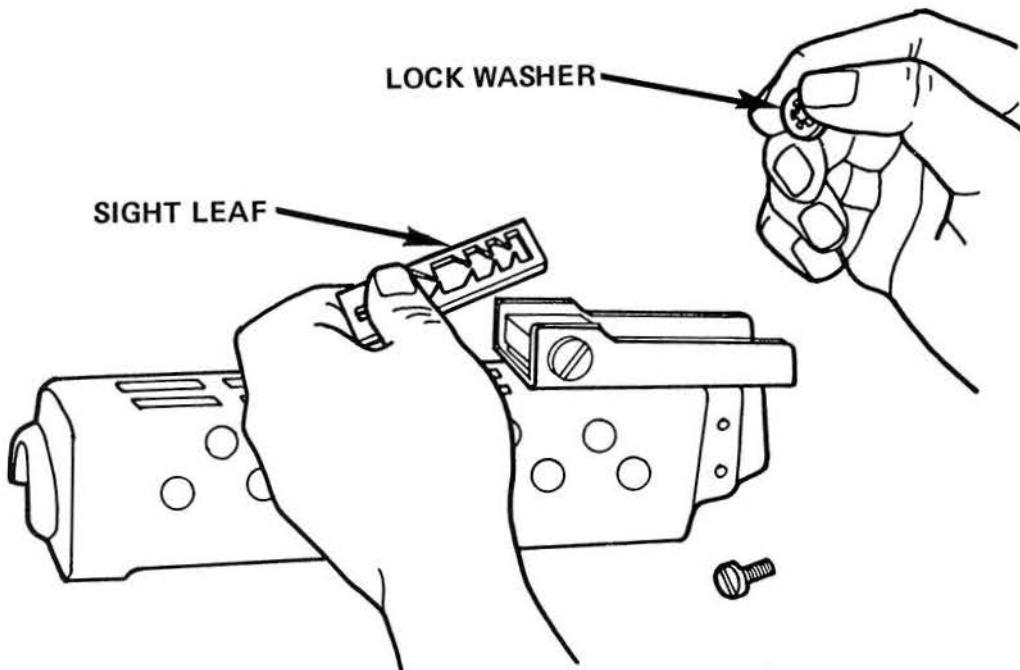
**DISASSEMBLE SIGHT LEAF ASSEMBLY**

**REMOVE MACHINE SCREW, LOCK WASHER, AND SIGHT LEAF**

STEP 1: Unscrew the machine screw from the sight leaf base.

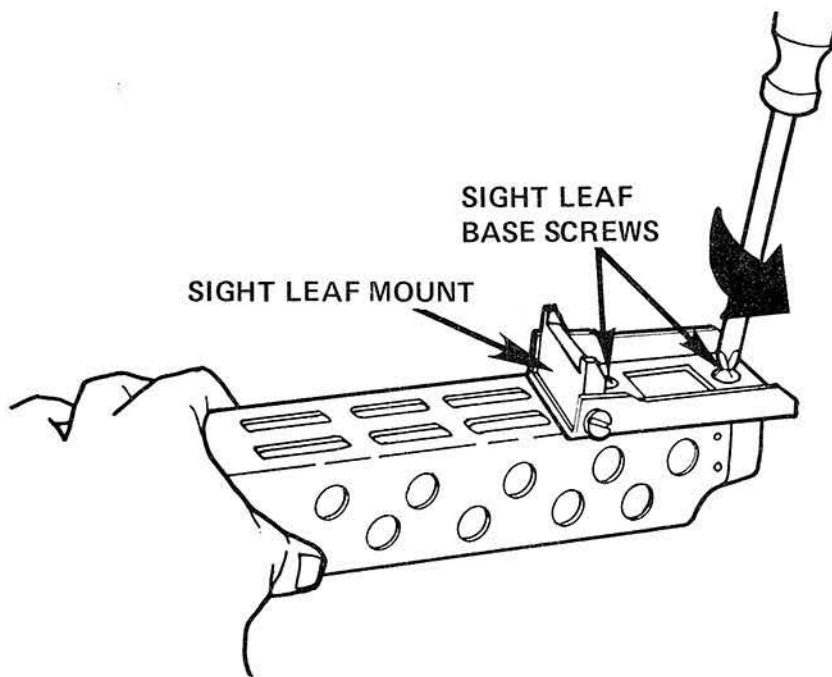


STEP 2: Lift off the lock washer and the sight leaf.



REMOVE SIGHT LEAF BASE

STEP 1: Raise the sight leaf mount. Unscrew the two sight leaf base screws from the sight leaf base with a phillips screwdriver.

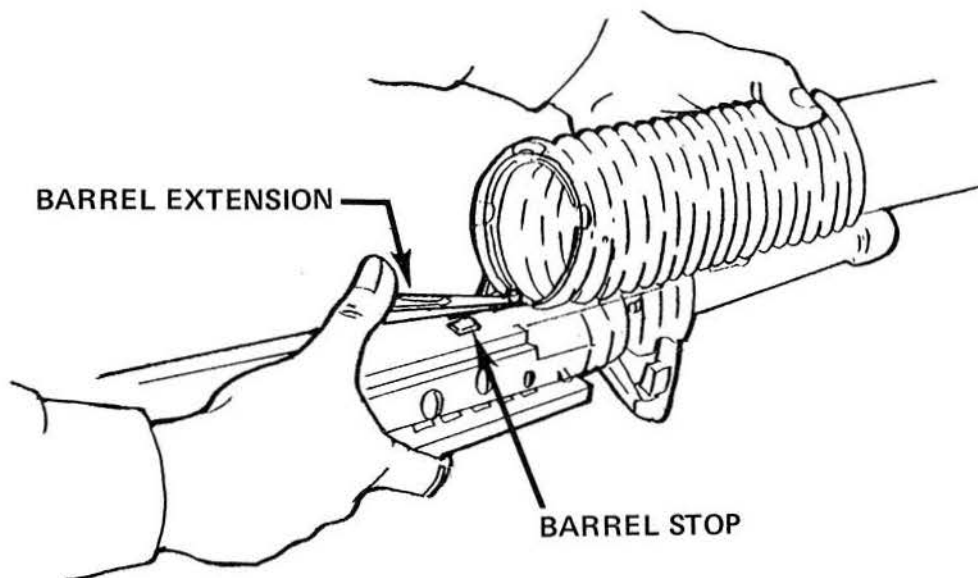


You have now disassembled the sight leaf assembly.

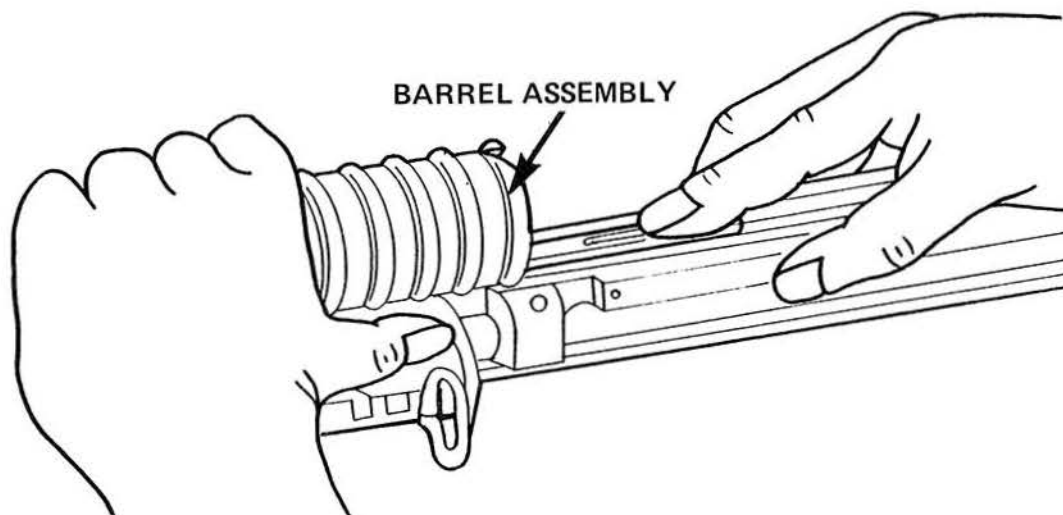
NOTE: You must NOW put the barrel assembly back on the upper receiver of the M16A1 rifle before you can disassemble the rest of the M203 grenade launcher.

INSTALL THE BARREL ASSEMBLY

STEP 1: Press barrel extension down on the barrel stop as shown.

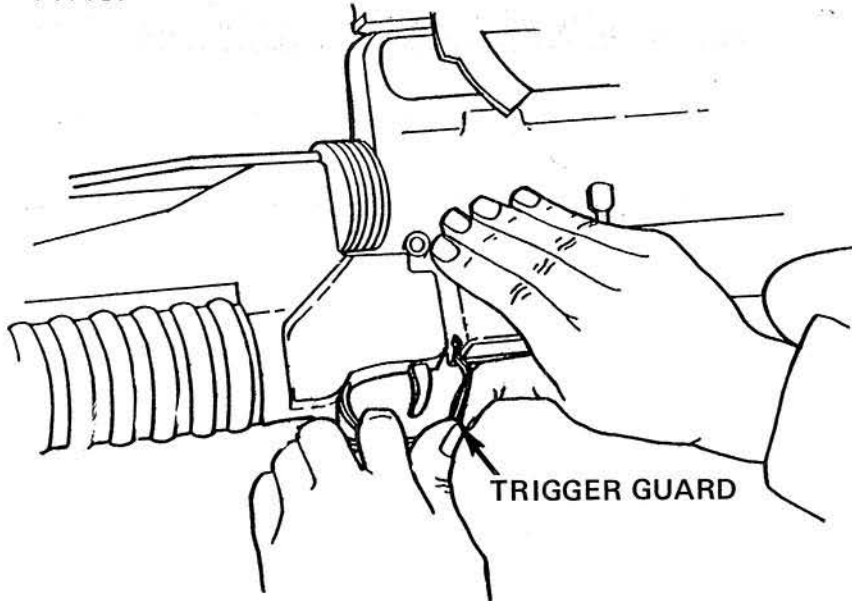


STEP 2: Slide the barrel assembly onto the receiver as far as it will go.



**DISASSEMBLE THE RECEIVER ASSEMBLY**

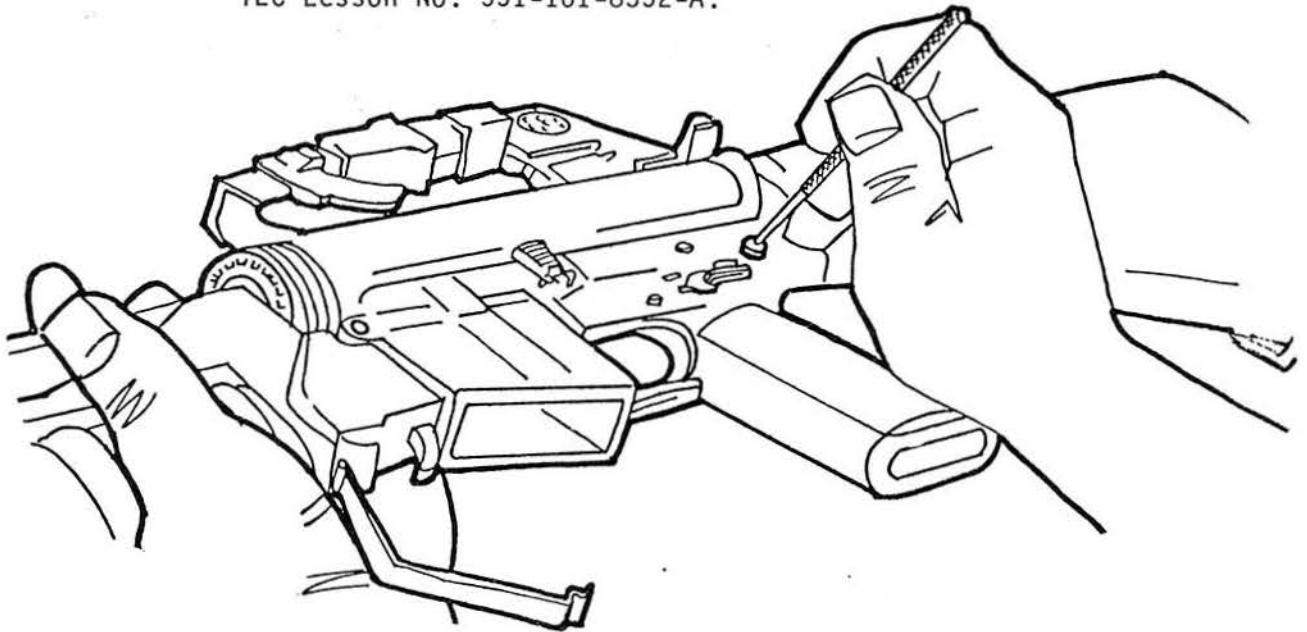
STEP 1: Push in on trigger guard and pull it out of slot in the M16A1 rifle.



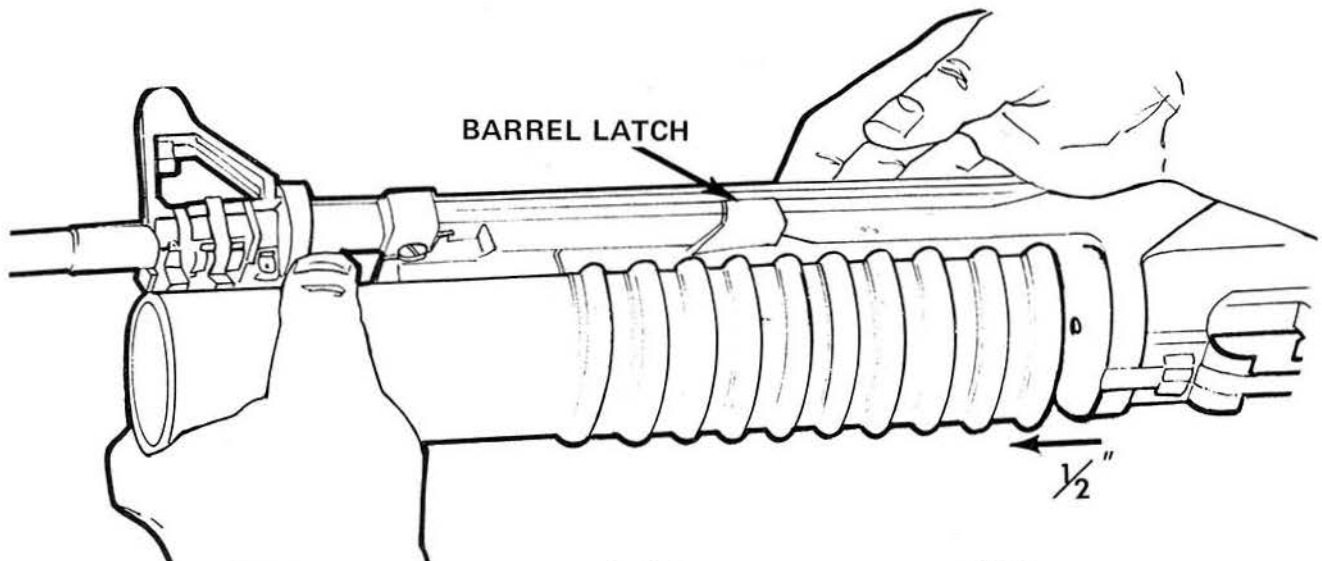
NOTE: Do not remove the trigger guard.

STEP 2: Separate the upper/lower receiver groups of the M16A1 rifle.

NOTE: If you don't remember how to do this go back to TEC Lesson No. 551-101-8352-A.

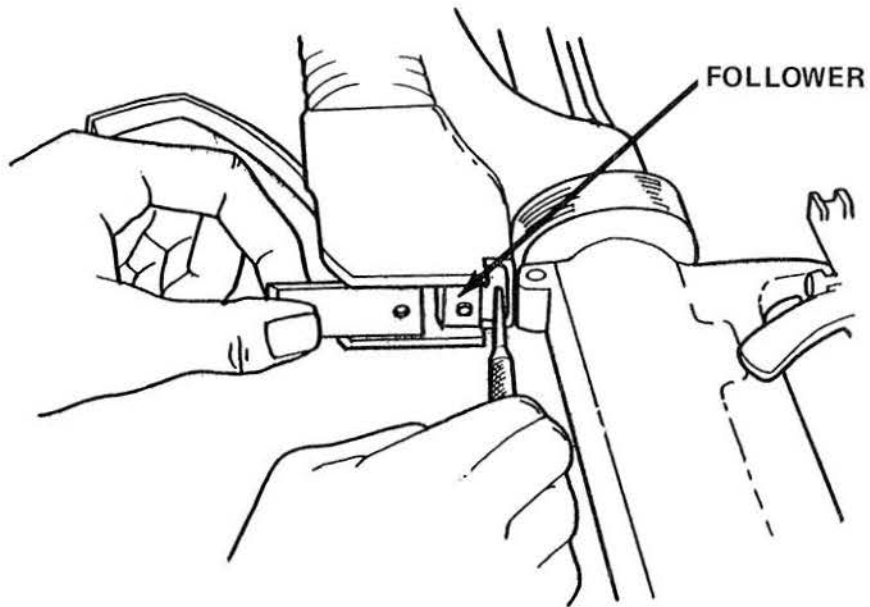


STEP 3: Press down on the barrel latch. Pull the barrel only 1/2 inch forward.

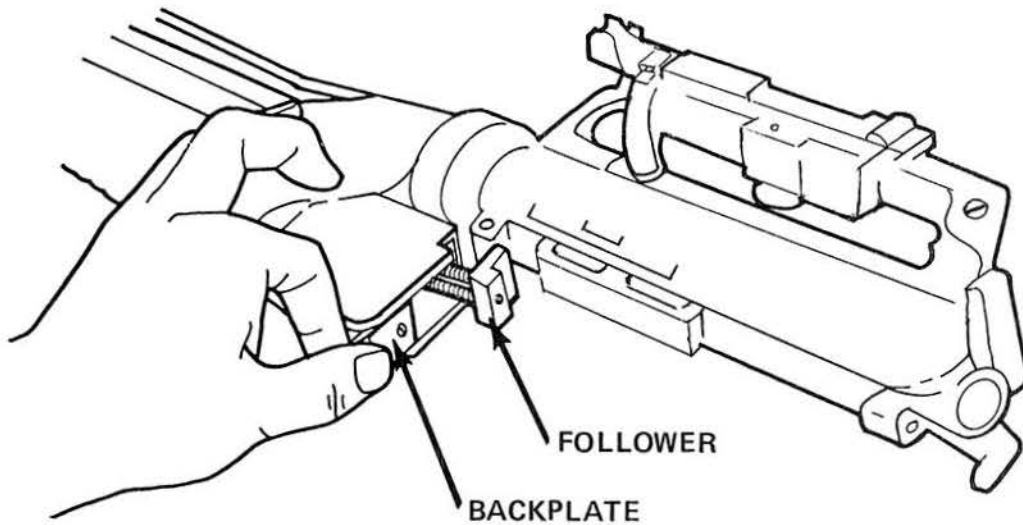


STOP  
BEFORE YOU GO ANY FURTHER CHECK TO SEE IF THERE IS A SCREW HOLDING  
THE BACKPLATE IN POSITION. IF THERE IS A SCREW, REMOVE THE SCREW  
AND THEN PROCEED TO STEP 4.

STEP 4: Push in on follower with a punch.

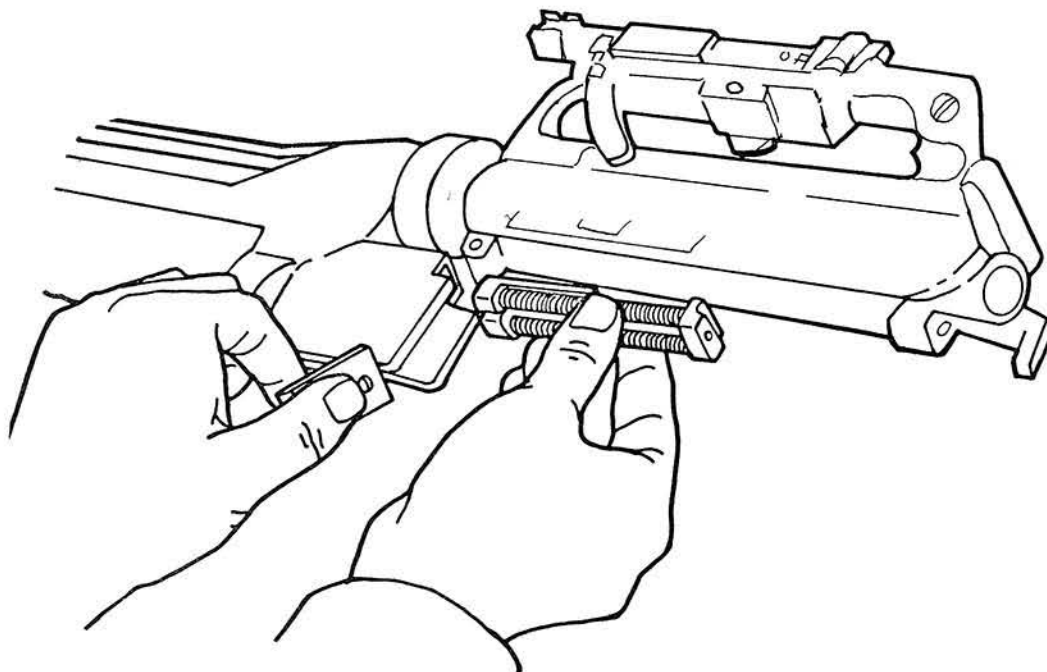


STEP 5: Slide back plate out.

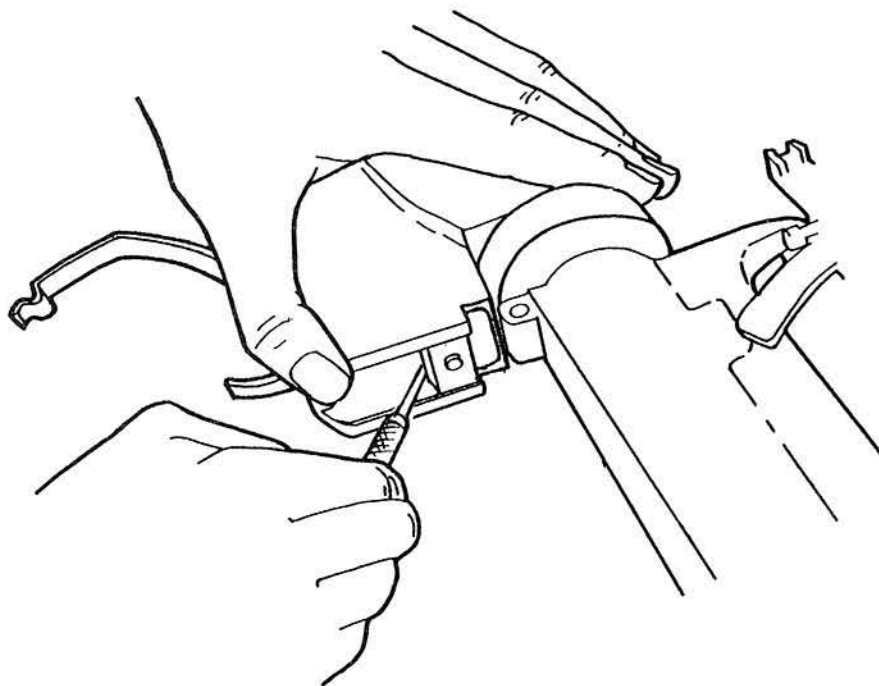


NOTE: Backplate NSN 1010-00-438-7307 has a stud hole for followers NSN 1010-00-497-6989 and 1010-00-438-7373. The backplate that has the screw NSN 1010-00-888-1078 is to be used with follower NSN 1010-888-1077.

STEP 6: Pull the follower out of the receiver cavity.



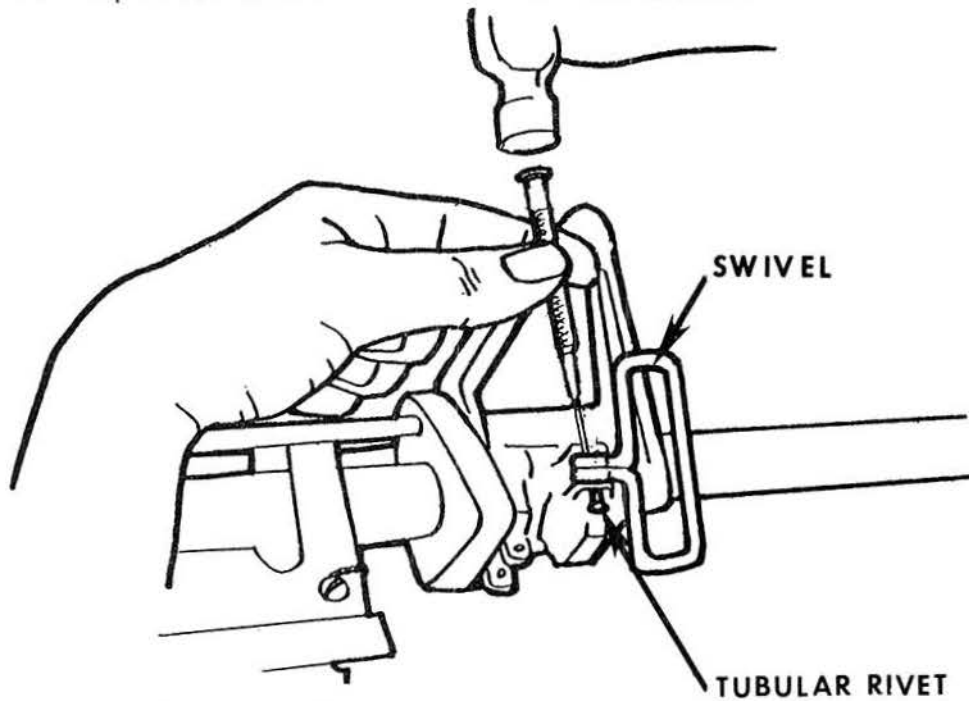
NOTE: If the follower will not come out, use a punch to pry it out.



DO NOT DO THIS PAGE NOW

NOTE: Do not remove the tubular rivet and swivel during this lesson. If you need to replace the swivel, this is how it is done.

STEP 7: Tap rivet until it falls free from swivel.



You have now disassembled the M203 grenade launcher.

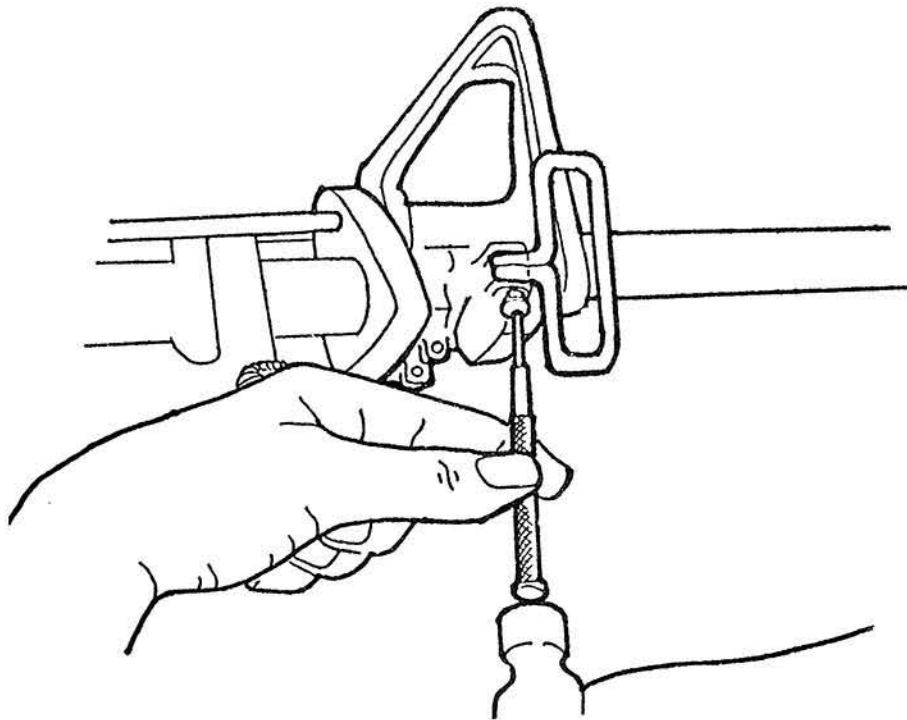
DO NOT DO THIS PAGE NOW.

**ASSEMBLE THE RECEIVER GROUP**

NOTE: Do not install the tubular rivet during this lesson.

INSTALL TUBULAR RIVET

Step 1.: Hold swivel in place and tap a new rivet into place.

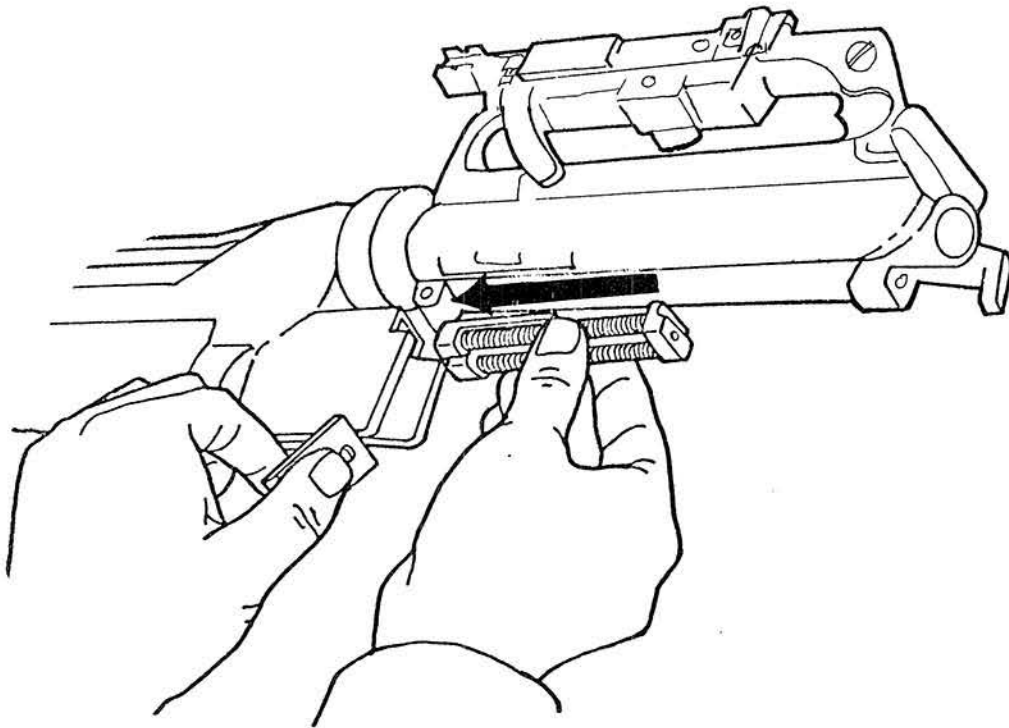


DO THIS NOW

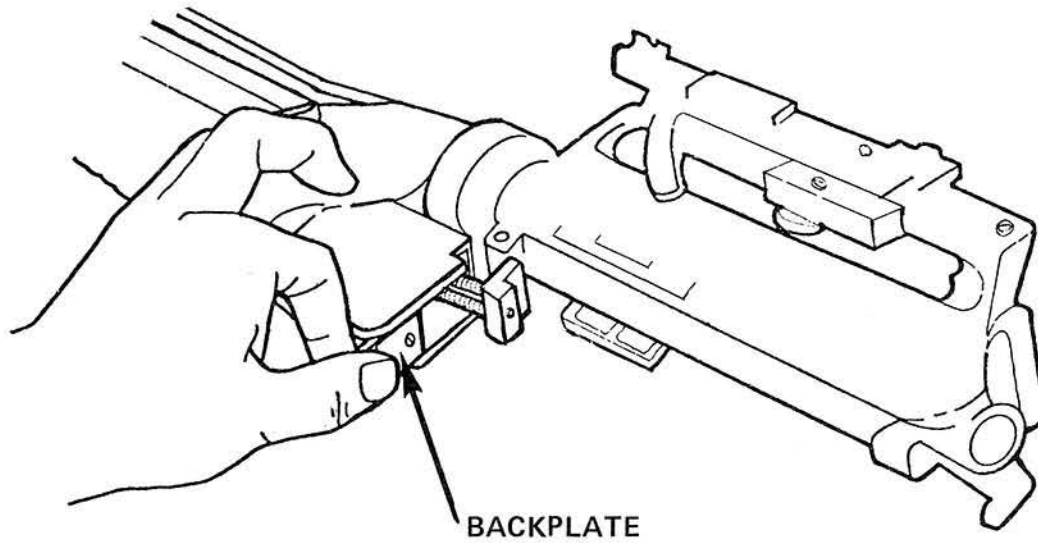
NOTE: Be sure the barrel has not been opened more than 1/2 inch.

INSTALL FOLLOWER

STEP 1: Slide the follower into the receiver cavity as shown.

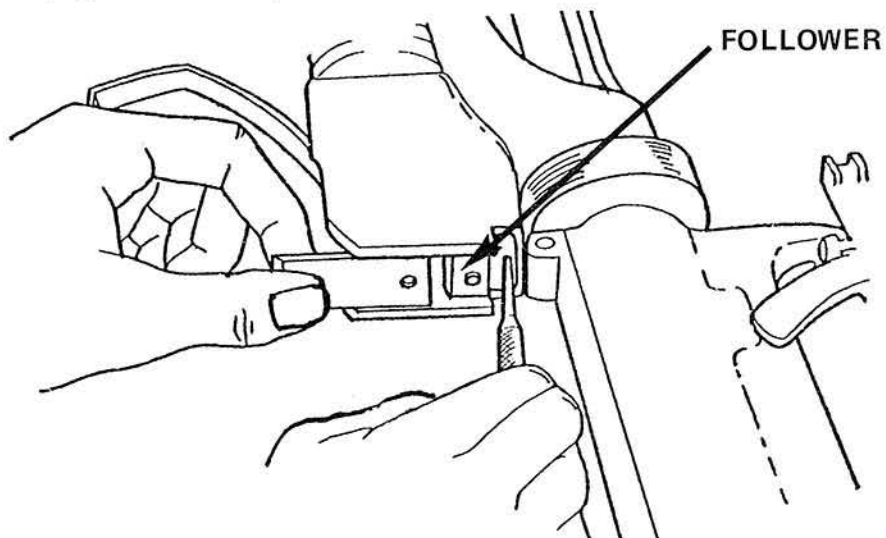


STEP 2: Slide the back plate into the track on the receiver.



STEP 3: Use a punch to push in on the follower and slide the back plate towards the follower until it snaps into position.

NOTE: If your backplate was held in with a screw, go back to page 11 and repeat the steps.

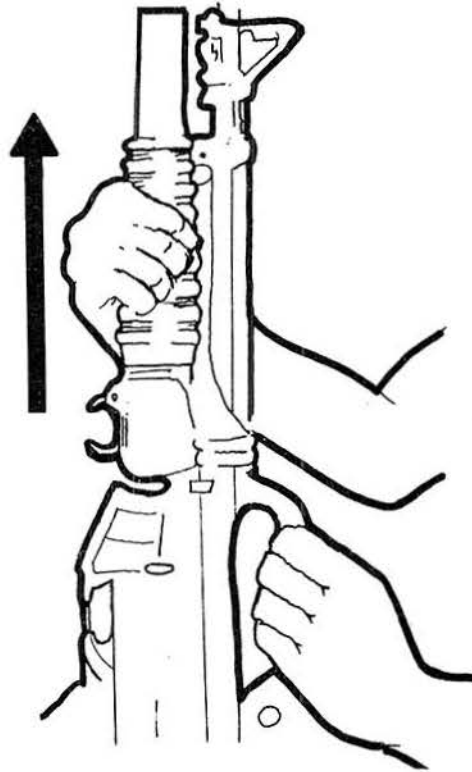


STEP 4: Pull the barrel back into a locked position.

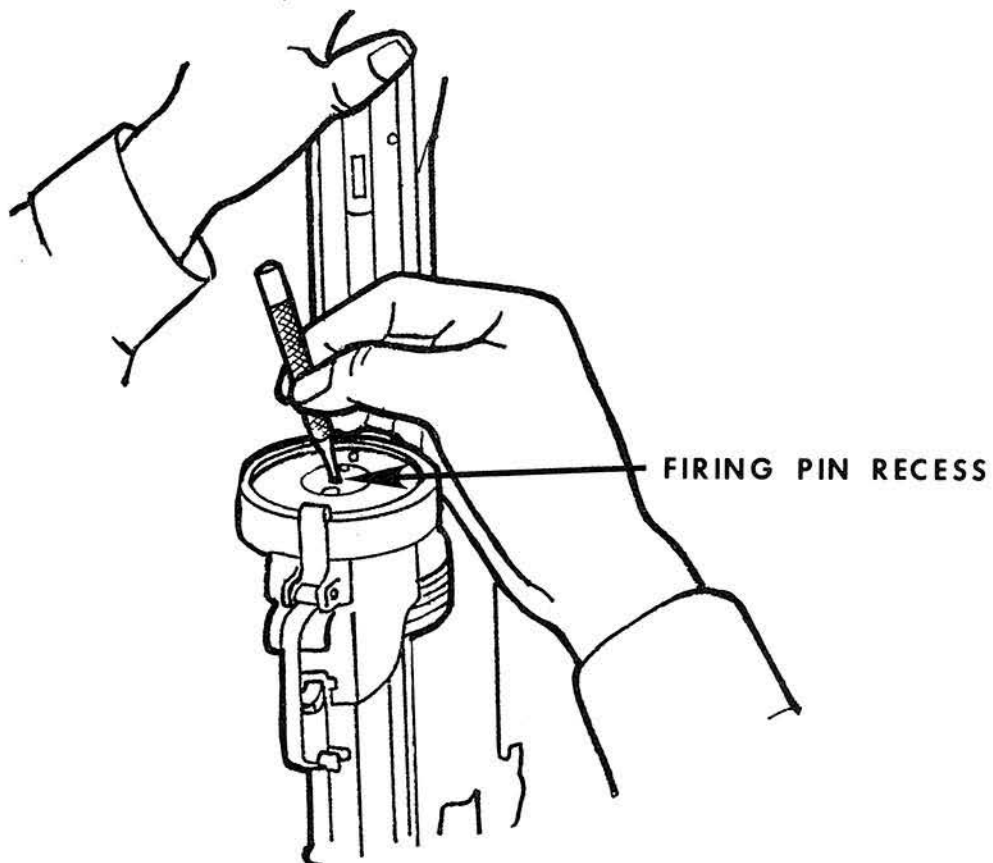
NOTE: If the barrel was moved out more than 1/2 inch when assembling the backplate and follower, you will not be able to lock it.

IF THE BARREL WILL NOT LOCK, DO THIS:

1. Be sure the follower and back plate are correctly assembled.
2. Pull the barrel open to a fully extended position.

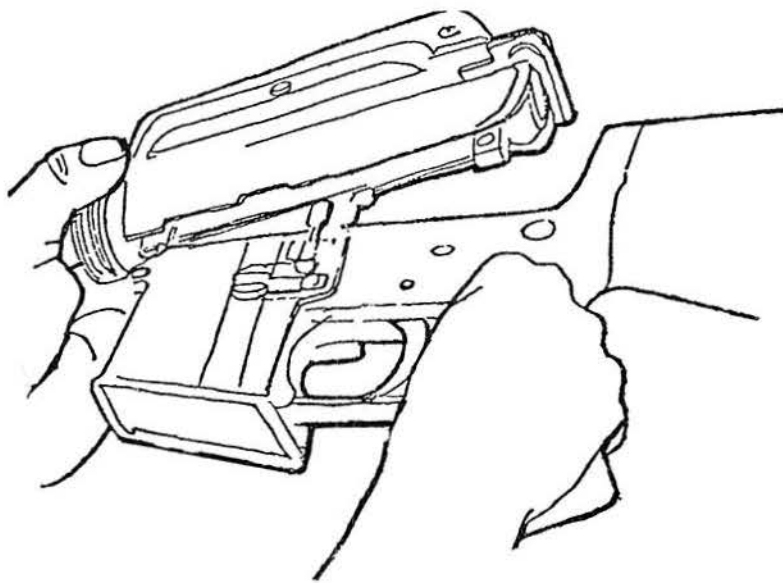


3. Place a punch into the firing pin recess (with 1/8-inch punch) and push in until you hear a click.



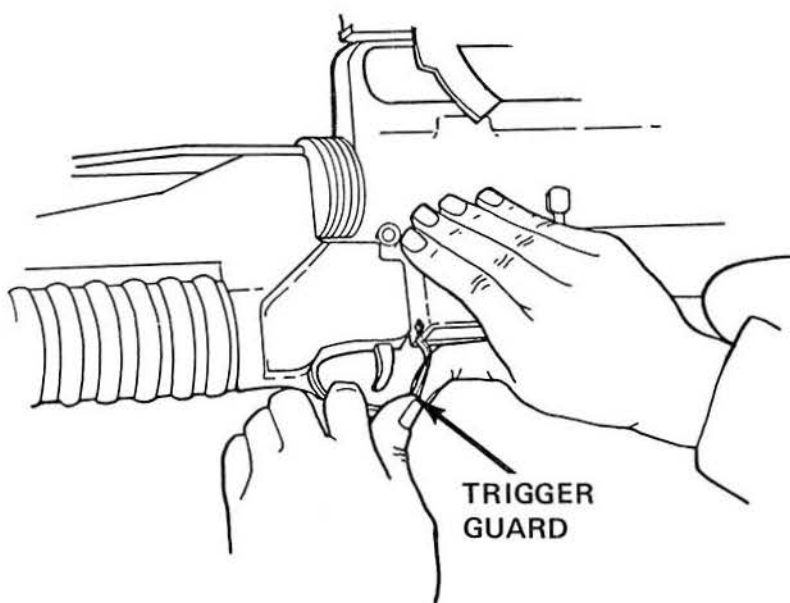
4. If you do NOT hear a click, go back and check that the backplate and follower are assembled correctly.
5. Push barrel back to locked position.

STEP 5: Join the M16A1 rifle upper and lower receiver groups. If you do not remember how to do this, go back to TEC Lesson No. 551-101-8352-A.



STEP 6: Install the trigger guard.

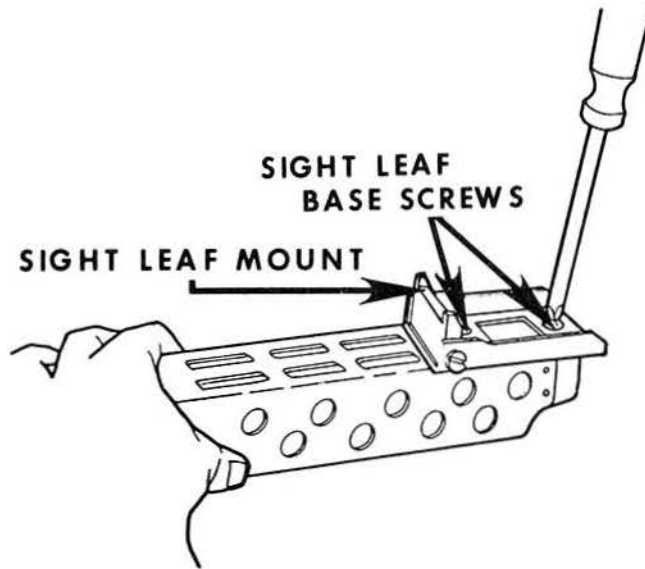
Push trigger guard in and push it up until it snaps into its slot.



**ASSEMBLE SIGHT LEAF ASSEMBLY**

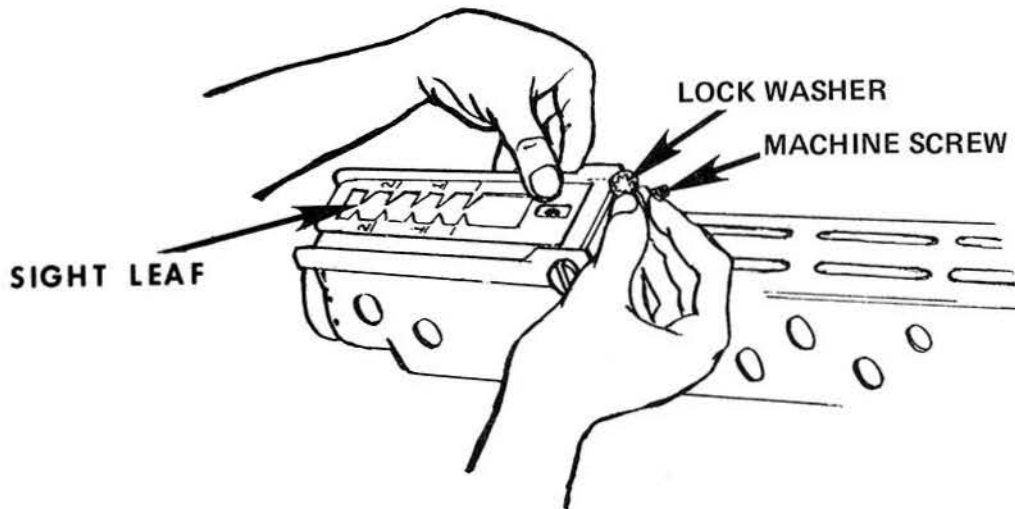
STEP 1: Raise up the sight leaf mount.

Set the sight leaf base on the handguard and screw in the sight leaf base screws.



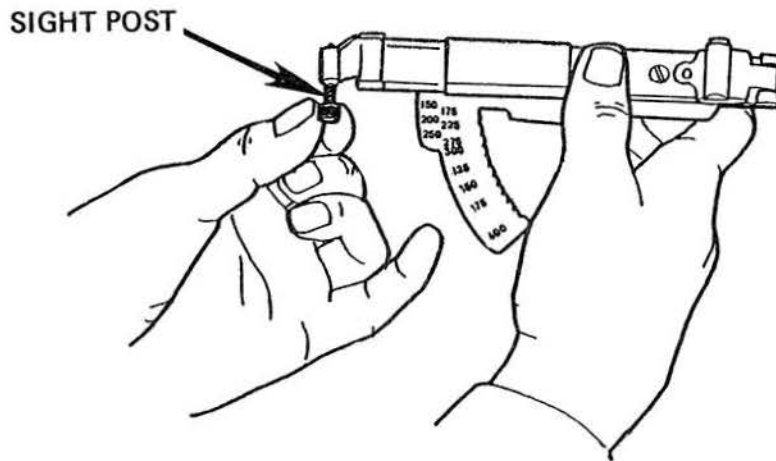
STEP 2: Lay sight leaf on base, as shown.

Put the washer in place and screw on the machine screw.



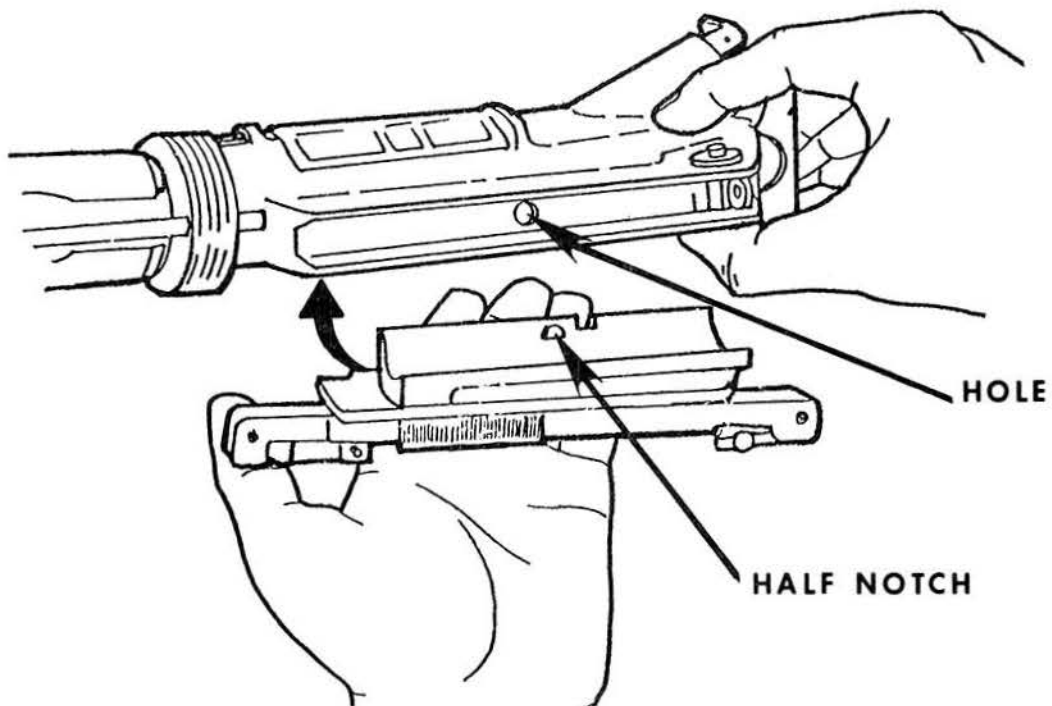
**ASSEMBLE THE QUADRANT SIGHT ASSEMBLY**

STEP 1: Screw the sight post into the sight post arm.

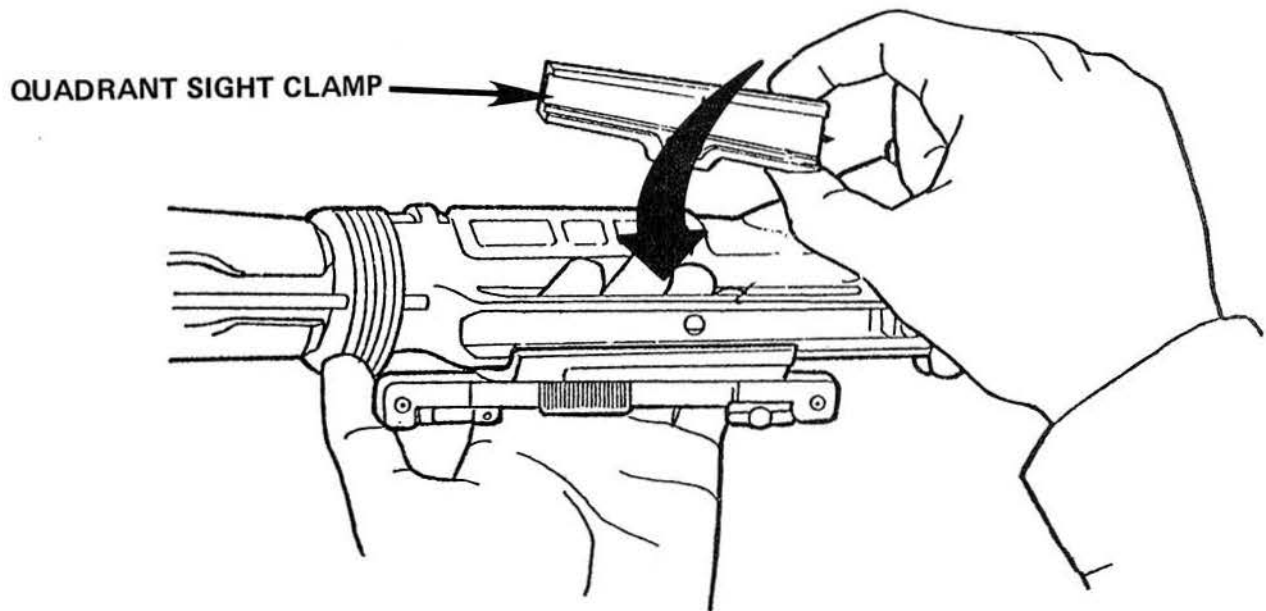


STEP 2: Tilt the M16A1 upper receiver group.

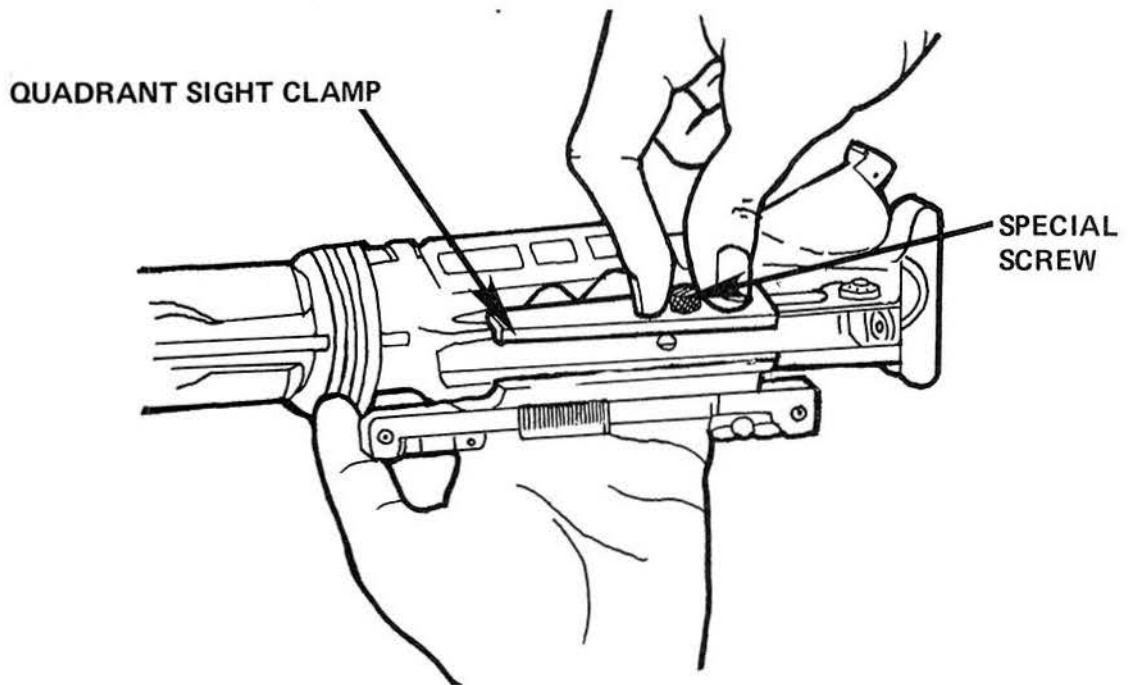
Place the half notch of the quadrant sight group in the hole of the carrying handle.



STEP 3: Place quadrant sight clamp on carrying handle, as shown.



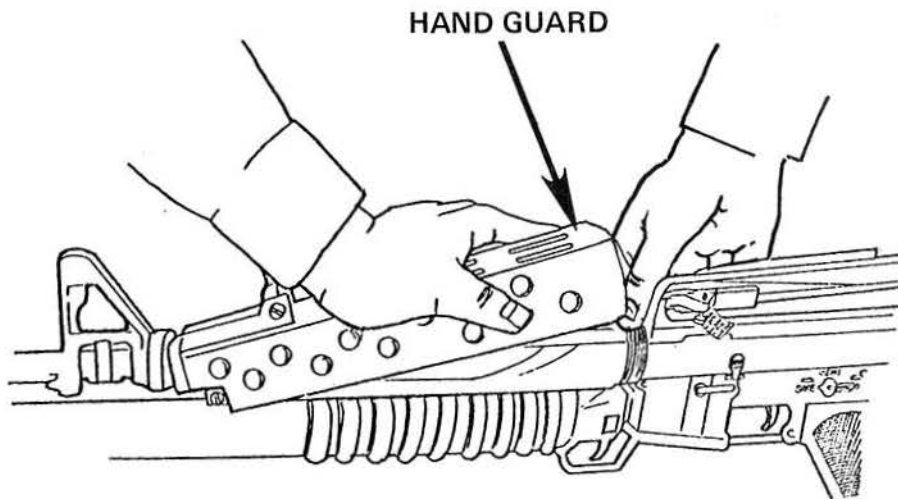
STEP 4: Screw on the special screw.



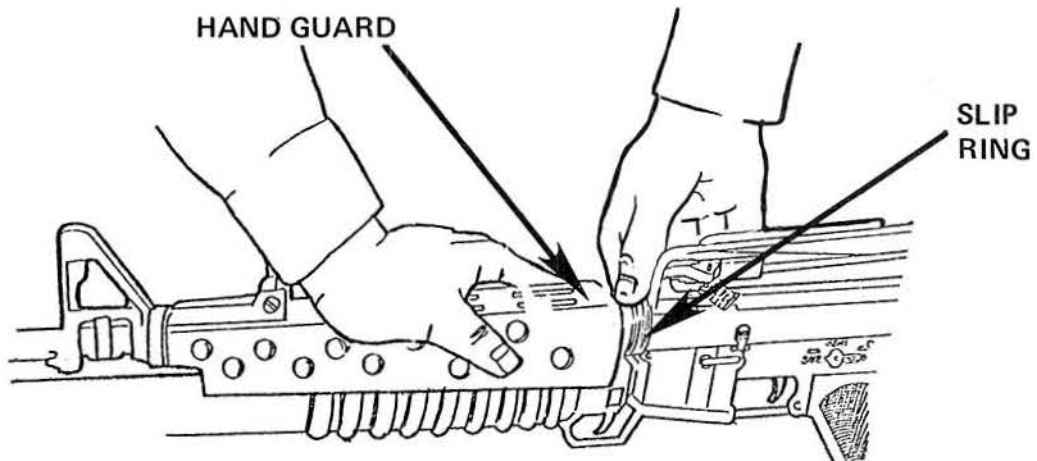
NOTE: Be sure the sight assembly does NOT move on the carrying handle.

INSTALL HANDGUARD

STEP 1: Place the handguard on the receiver, as shown.



STEP 2: Pull back the slip ring and push the handguard down so that the handguard is held in place by the slip ring.



YOU HAVE NOW ASSEMBLED THE M203 GRENADE LAUNCHER.

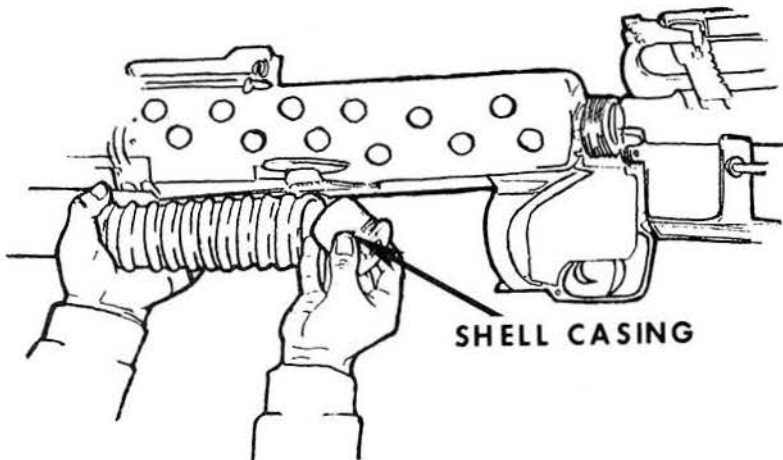
Practice the steps for disassembly and assembly until you can disassemble and assemble the M203 grenade launcher without looking at this lesson and within 30 minutes.

**HOW TO FUNCTION CHECK THE M203 GRENADE LAUNCHER**

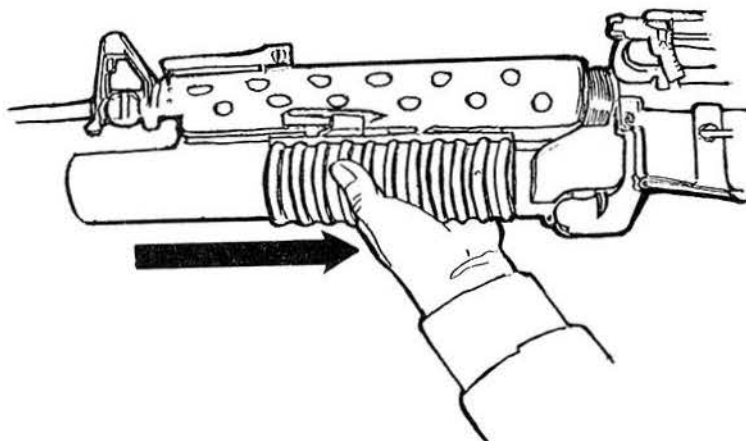
Get out the shell casing and follow these steps.

STEP 1: Press down on the barrel latch and slide barrel forward.

STEP 2: Put the shell casing into the launcher, as shown.



STEP 3: Pull the barrel all the way back (toward you).



STEP 4: Squeeze the trigger. You will hear a click.

STEP 5: Pull the barrel forward. The shell will fall out.

STEP 6: Clear the weapon.

WHEN YOU HAVE FINISHED YOUR PRACTICE ON THIS  
LESSON, ASK YOUR SUPERVISOR TO GIVE YOU THE  
POSTTEST.