

DETAILED CLEANING TECHNIQUES

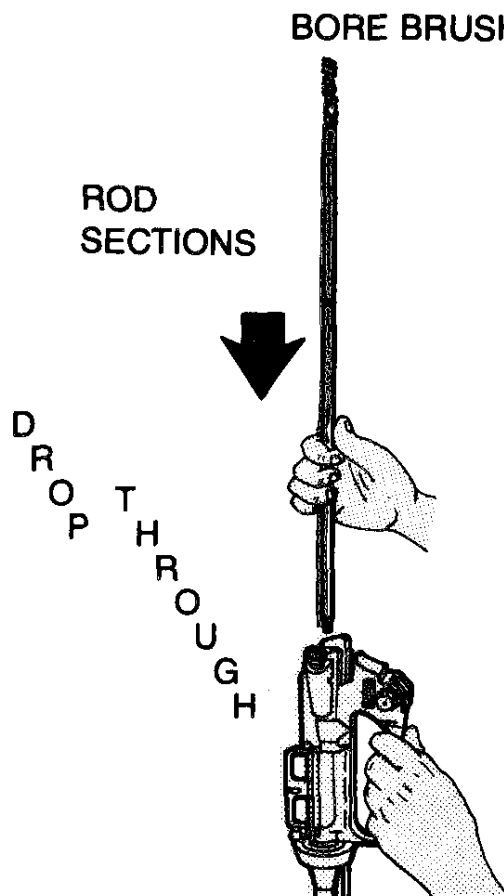
Don't mix up the parts of your rifle with those of your buddy.

BORE. The bore of your M16A2 has lands and grooves called rifling. Rifling makes the bullet spin very fast as it moves down the bore and down range. Because it twists so quickly, it is difficult to push a new, stiff bore brush through the bore. You will find it much easier to pull your bore brush through the bore. Also, because the brush will clean better if the bristles follow the grooves (called tracking), you want the bore brush to be allowed to turn as you pull it through. This is how you do it:

- 1 Swab out the bore with a patch moistened with CLP.
- 2 Attach three rod sections together but leave each one about two turns short of being tight.
- 3 Attach the bore brush but leave it two turns short also.

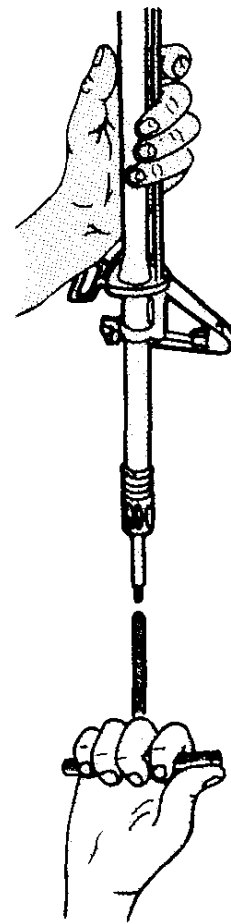
NOTE

This whole process will go quicker if you use the "buddy system" on the cleaning rods. Set one rod up with a patch holder and the other with a bore brush.



DETAILED CLEANING TECHNIQUES (CONT)

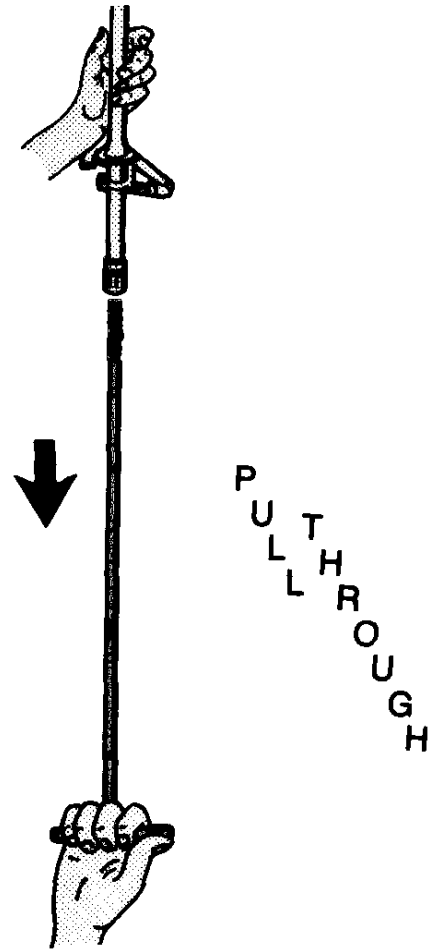
- 4 Point muzzle down. Hold the upper receiver in one hand while inserting the end of the rod **without the brush** into the chamber. Let the rod fall straight through the bore. About 2-3 inches will be sticking out of the muzzle at this point.
- 5 Attach the handle section of the cleaning rod to the end of the rod sticking out of the muzzle.
- 6 Pull the brush through the bore and out the muzzle. If you watch closely, you can see the rod twisting as you pull it.
- 7 After one pull, take off the handle section and repeat the process. After three or four pulls, you will see that the three rod sections and the bore brush are screwing together. Loosen them up and repeat the process.



ATTACH
HANDLE

DETAILED CLEANING TECHNIQUES (CONT)

- 8 Send a patch through the bore once in a while to help clean out the crud that the brush is getting loose. You can use the same technique as described above to save time. Just replace the bore brush with the rod tip (patch holder) and a wet patch. Drop it through. You won't need to attach the handler to pull only a patch through. If you leave the rods loose again, the patch will "track" in the rifling as before. But remember, always have the bore **wet with cleaner** before trying to pull a brush through.



THOROUGH CLEANING

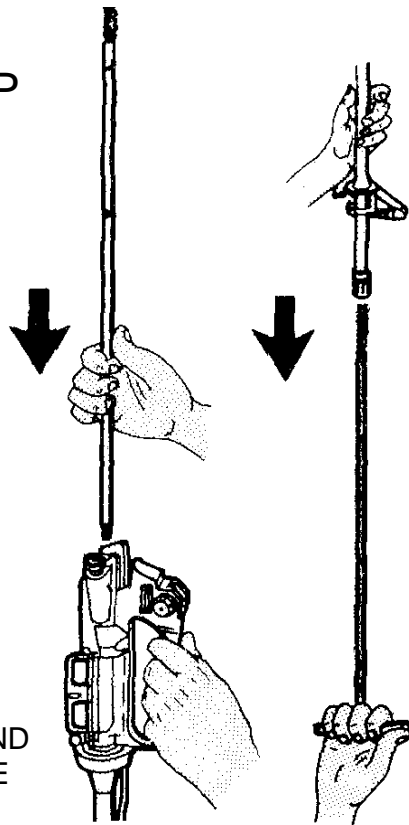
upper receiver

CLEAN WITH CLP

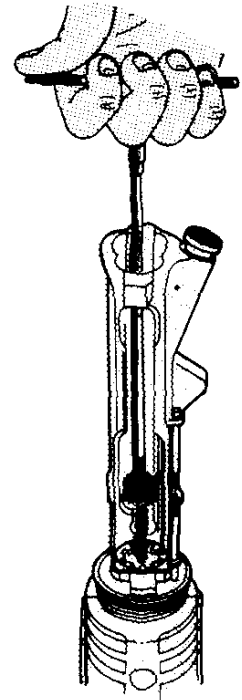
- All Areas of Powder Fouling, Corrosion, Dirt, and RUST
- Bore and Chamber
- Locking Lugs
- Gas Tube

START AT RECEIVER AND DROP ROD AND BRUSH THROUGH.

ATTACH HANDLE AND PULL THROUGH THE COMPENSATOR.



WHEN USING BORE BRUSH, DON'T REVERSE DIRECTION WHILE IN BORE.

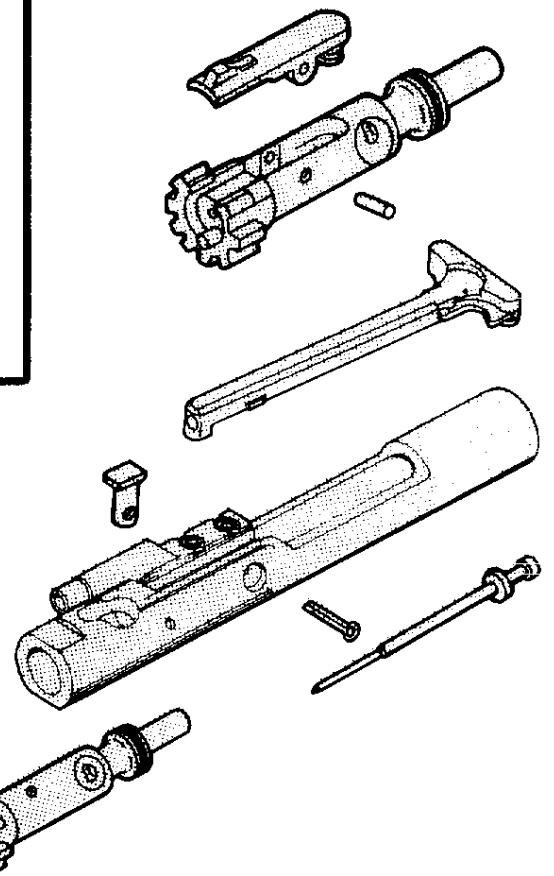
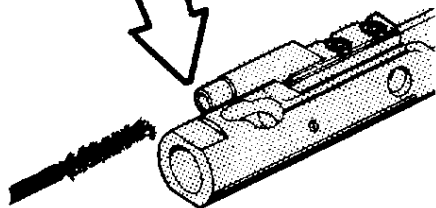
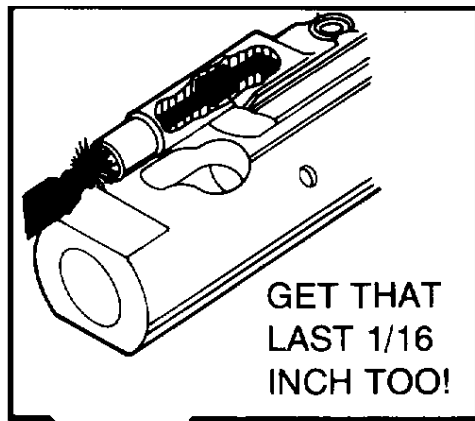


CLEAN BOLT LUGS

THOROUGH CLEANING (CONT)

bolt carrier group

- Outer and Inner Surfaces of Bolt Carrier
- Carrier Key
- Firing Pin Recess and Firing Pin
- Firing Pin Hole (Use Pipe Cleaner.)
- Carbon Deposits and Dirt from Locking Lugs
- Areas Behind Bolt Ring and Under Lip of Extractor



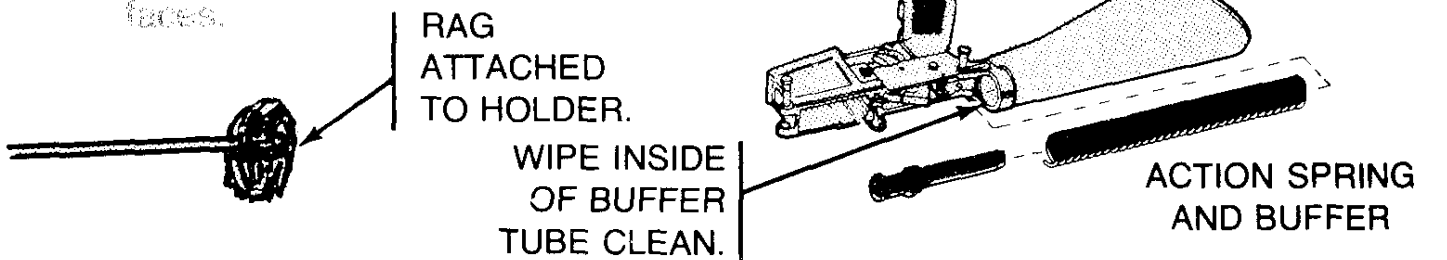
THOROUGH CLEANING (CONT)

lower receiver group

- All Areas of Powder Fouling, Corrosion, and Dirt.
- Wipe Dirt from Trigger Mechanism.
- Clean Buffer, Action Spring, and Inside Lower Receiver Extension.

CAUTION

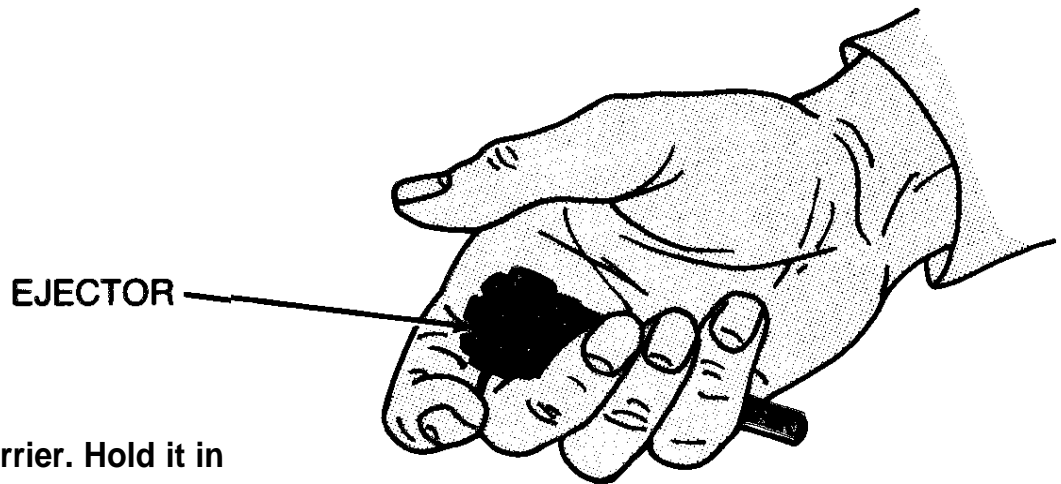
Do not use wire brush or any type of abrasive material to clean aluminum surfaces.



THOROUGH CLEANING (CONT)

ejector

The design of the ejector makes its disassembly for cleaning by you, the operator, impractical. Make sure your M16A2 ejects those empty cases clear of you and your rifle by following these steps on a monthly or as required (weekly if firing blanks) basis.

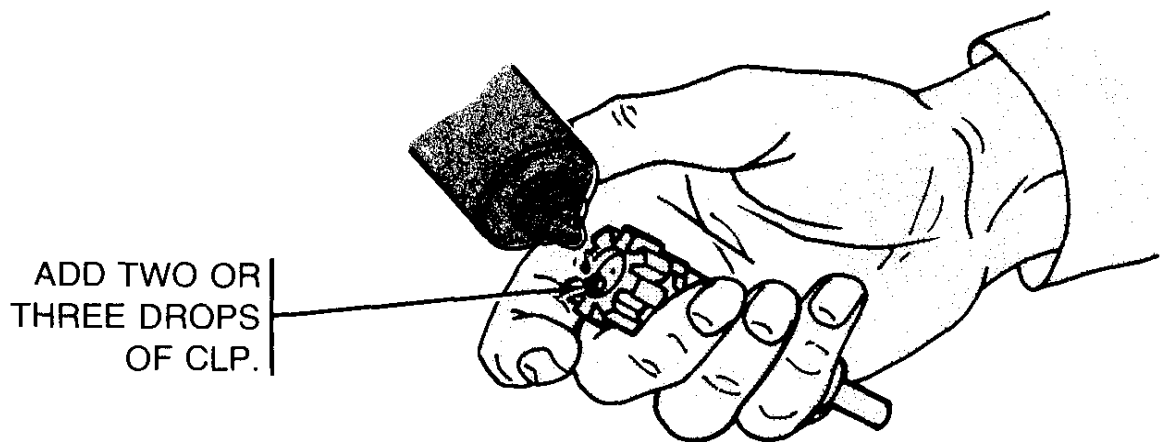


- 1 Remove bolt from carrier. Hold it in your hands as shown with ejector down and extractor up.

THOROUGH CLEANING (CONT)

ejector (cont)

2 Place a few drops of CLP around the ejector to form a puddle.

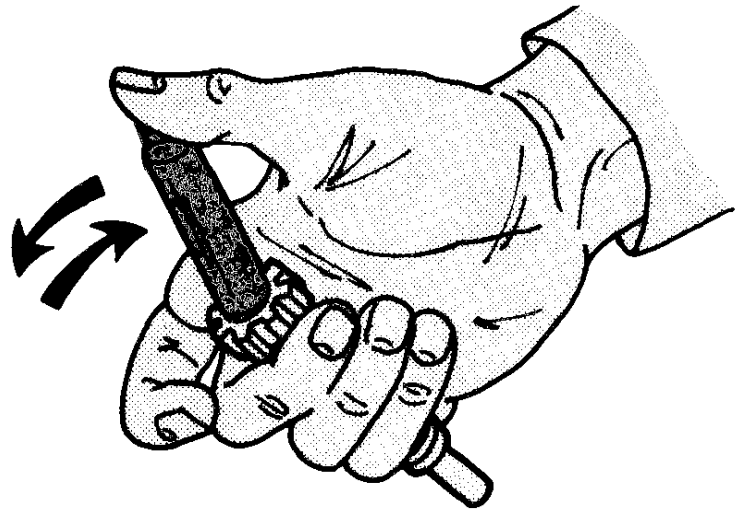


THOROUGH CLEANING (CONT)

ejector (cont)

- 3 Take a fired or dummy case and place it under the lip of the extractor. With a rocking motion, press the case down against the ejector. Since the ejector is spring loaded, some resistance will be felt. Press on the case until it stops against the bolt face. Ease off with your thumb slightly and press down again. Repeat several times. Replace the CLP frequently. Once the spring action of the ejector is smooth and strong, dry off any excess.

**HOOK CASE UNDER
EXTRACTOR AND ROCK
BACK AND FORTH
AGAINST EJECTOR.**



ADVICE ON THE USE OF CLP

CLP - Cleaner, Lubricant and Preservative - does three things at once:

ONE - It contains solvents to dissolve firing residue and carbon.

TWO - It lays down a layer of Teflon as it dries to provide lubrication.

THREE - It prevents rust from forming.

Use CLP as follows:

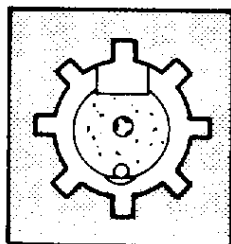
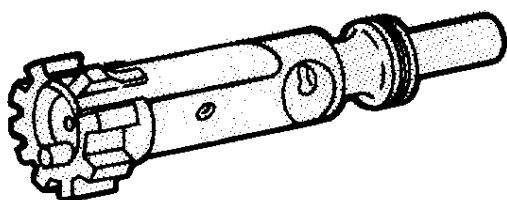
- a. Always shake bottle well before use.
- b. Place a few drops on a patch or rag.
- c. Clean your rifle with these patches and rags until they come out clean.
- d. Take a clean patch or rag and apply a fresh, light coat.

NOTE

Don't "dry clean" your rifle. DO NOT use hot water or other solvents or you will wash away the Teflon lubricant that has been building up as a result of your using CLP.

INSPECT = before lubricating

DO NOT interchange bolts between rifles.



BOLT - Cracks or fractures, especially in the cam pin hole area; bolts that contain pits extending into the firing pin hole need replacing.

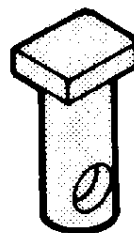


FIRING PIN - Bent, cracked, blunted, or sharp end

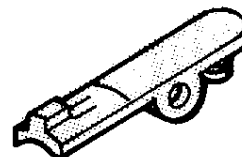
IF PARTS ARE MISSING OR DEFECTIVE, SEE YOUR ARMORER.



FIRING PIN RETAINING PIN - Bent or badly worn



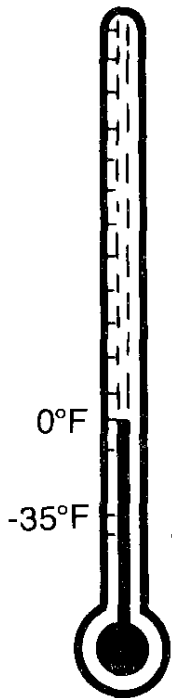
CAM PIN - Cracked, chipped, or missing



EXTRACTOR AND EXTRACTOR SPRING

Check extractor for chipped or broken edges in the area of the lip that engages the cartridge rim. Check that the rubber insert is inside the extractor spring.

LUBE GUIDE



Under all but the coldest Arctic conditions, CLP is the lubricant to use on your rifle. Remember to remove excessive CLP from the bore and chamber before tiring.

CLP - Cleaner, lubricant and preservative
Refillable 1/2 oz bottle
NSN 9150-01-102-1473

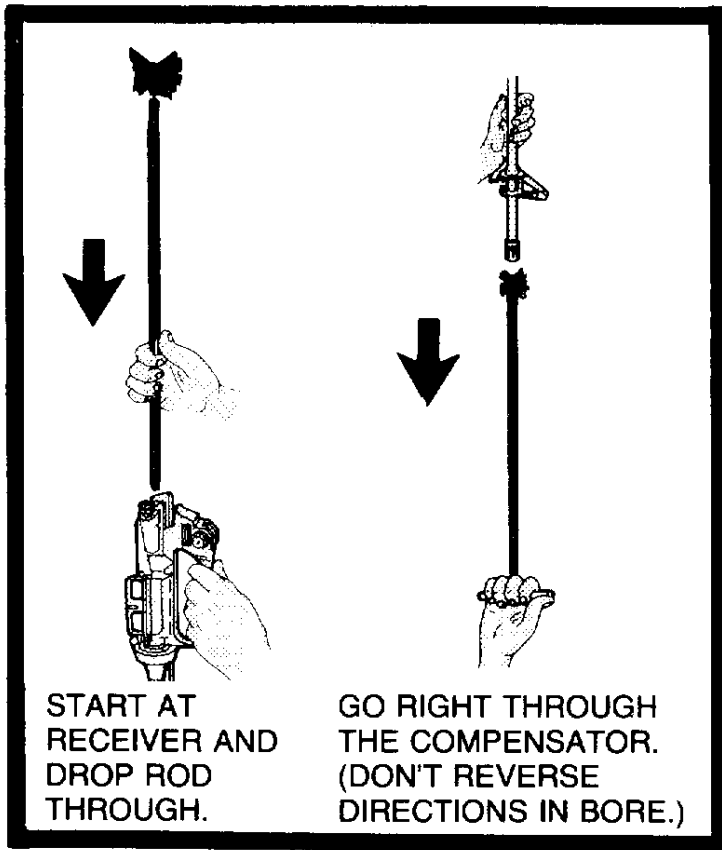
BETWEEN 0°F AND -35°F EITHER CLP OR LAW

LAW - Lubricating oil, Arctic weapons
1 qt can
NSN 9150-00-292-9689

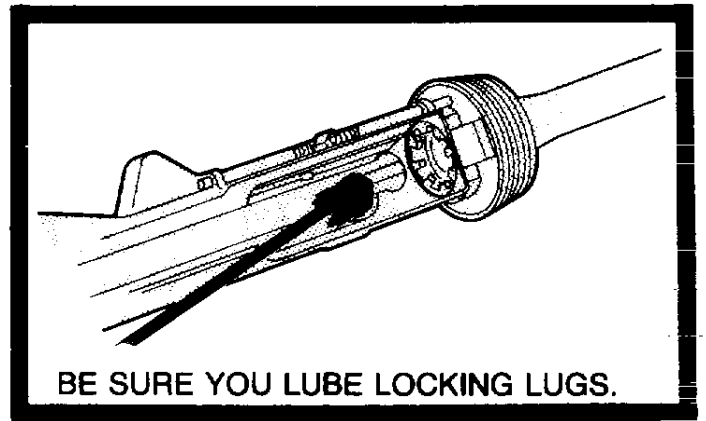
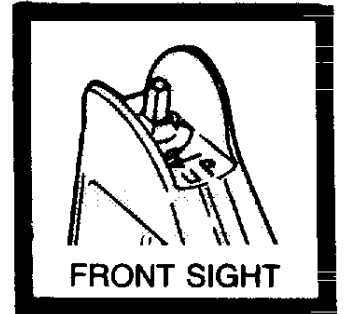
Lightly Lubed - A film of CLP barely visible to the eye

Generously Lubed - Heavy enough so that it can be spread with the finger

LUBRICATING upper receiver



Lightly lube inside of upper receiver, bore and chamber, outer surfaces of barrel and front sight, and surfaces under hand-guard. Depress front sight detent and apply two or three drops CLP to front sight detent. Depress several times to work lube into the spring.

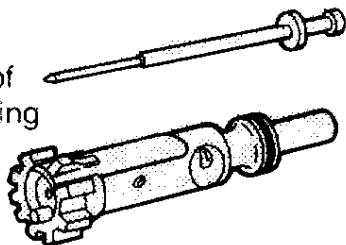


LUBRICATING (Cont)

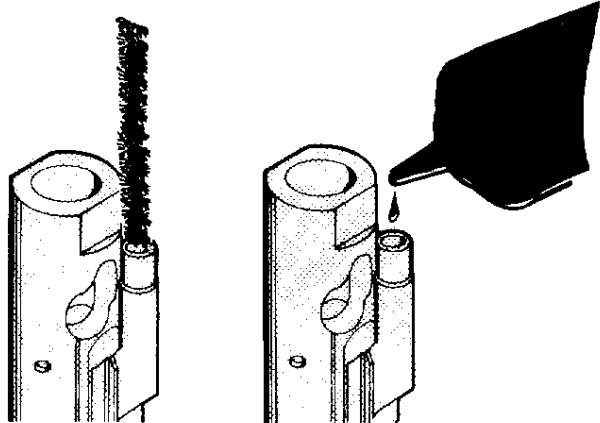
bolt carrier group

CAUTION

Use only a light coat of CLP on firing pin and firing pin recess in bolt.



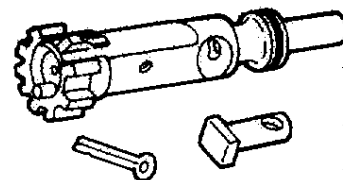
DRY WITH PIPE CLEANER; THEN PLACE ONE DROP CLP.



CARRIER KEY

GENEROUSLY LUBE OUTSIDE OF THESE PARTS.

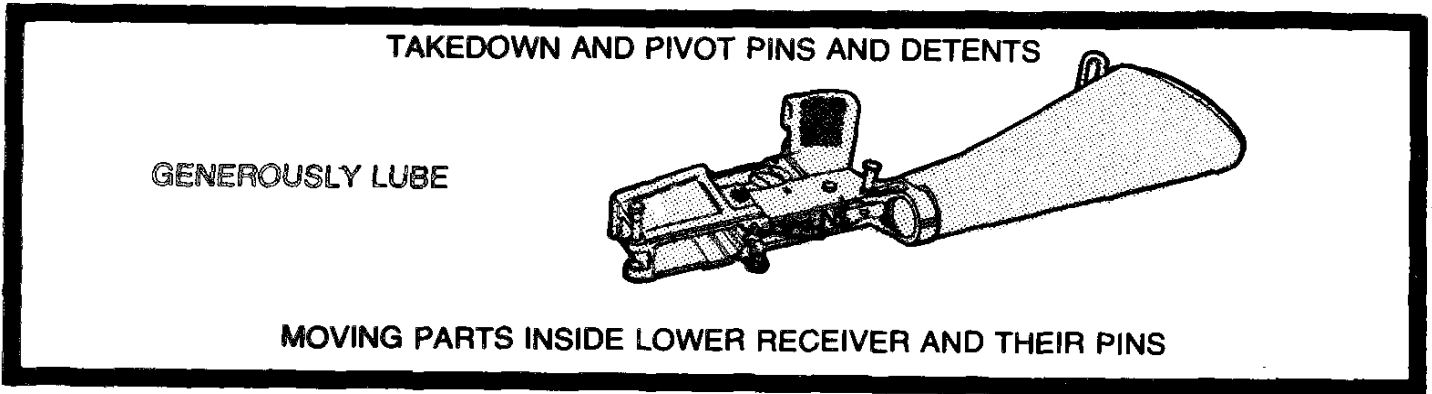
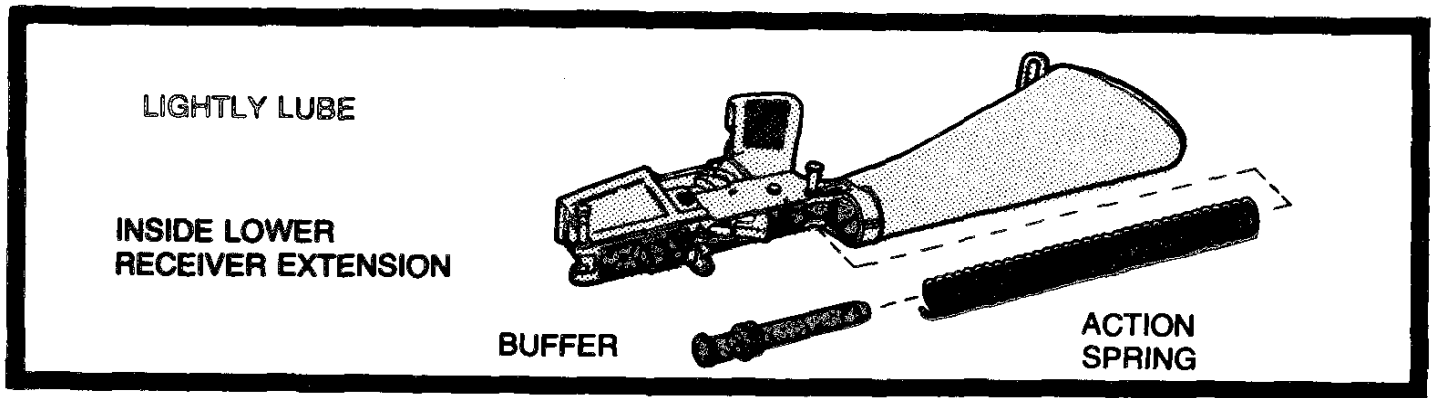
MAKE CERTAIN TO GET CAM PIN AREA, BOLT RINGS, AND OUTSIDE OF THE BOLT BODY. PUT A LIGHT COAT ON EXTRACTOR AND PIN.



LIGHTLY LUBE CHARGING HANDLE AND INNER AND OUTER SURFACES OF BOLT CARRIER. GENEROUSLY LUBE SLIDE AND CAM PIN AREA OF BOLT CARRIER.

LUBRICATING (Cont)

lower receiver group



LUBRICATING (Cont)

adjustable rear sight

NOTE

Make a note of how far you move the sights so they can be returned to their original position at completion of this task.

MOVING PARTS. Use one or two drops of CLP. Rotate these parts (see page 33) to ensure lubricant is spread evenly above and below:

- a. Elevation knob
- b. Elevation screw shaft
- c. Windage knob (maximum five clicks left or right)
- d. Windage screw
- e. Detent holes

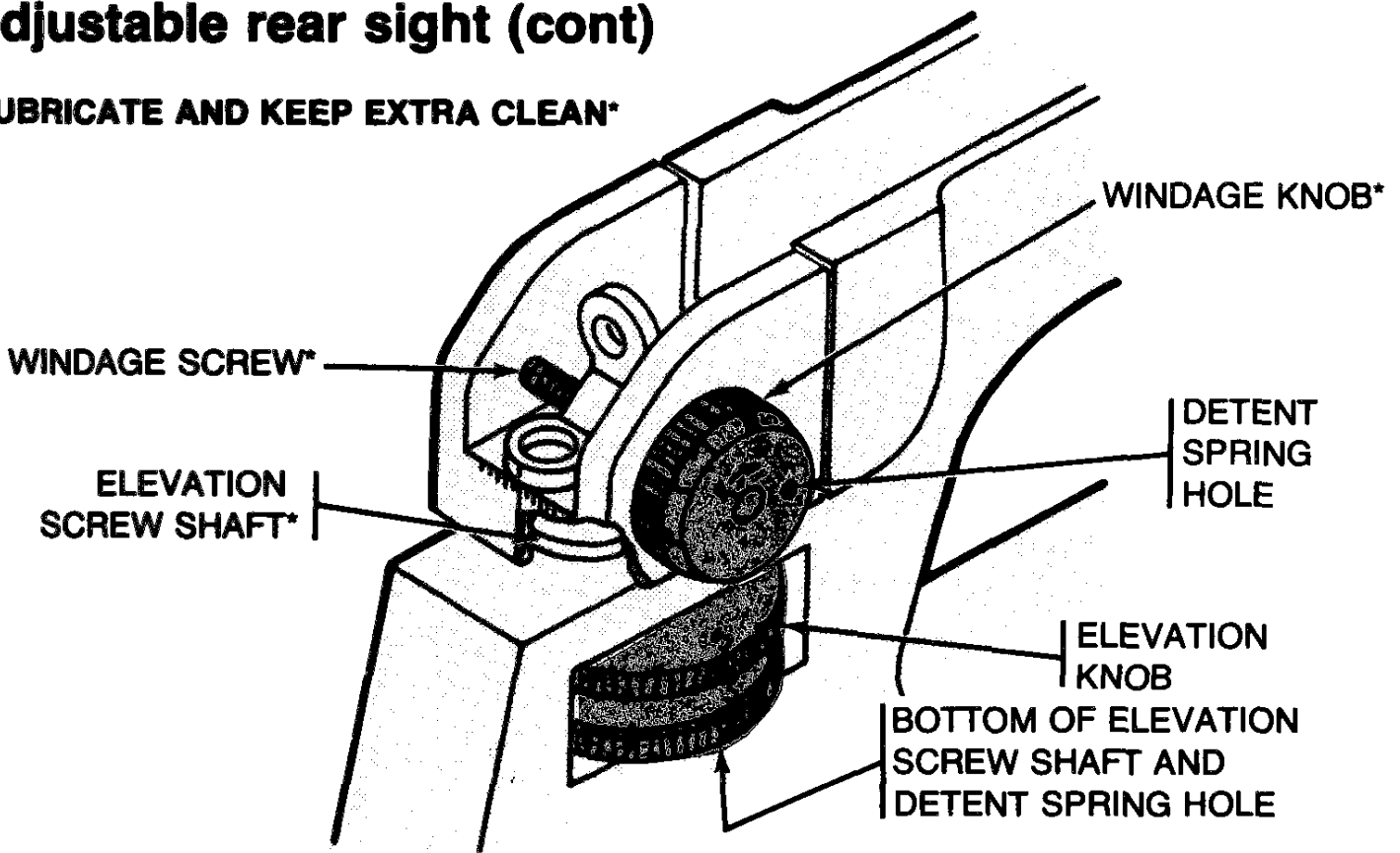
ELEVATION SCREW SHAFT. Also lube from inside the upper receiver as follows:

- a. Turn upper receiver upside down.
- b. Remove charging handle.
- c. Put two or three drops on bottom of elevation screw shaft and in elevation detent spring hole.
- d. Rotate the elevation dial back and forth a few times while keeping upper receiver upside down.

LUBRICATING (Cont)

adjustable rear sight (cont)

LUBRICATE AND KEEP EXTRA CLEAN*



LUBRICATING (Cont)

adjustable rear sight (cont)

AFTER LUBING REAR SIGHT:

- a. Reset your correct zero windage and your battlesight zero. Refer to pages 48-51.
- b. Notice the rear sight comes down when the "3" is aligned with the mark on the left side of the receiver.
- c. You will feel a "click" when the "3" first lines up with the mark.
- d. Carry your rifle with the "3" aligned with the mark.
- e. Keep the sight on 300 meters to keep dirt and water out of sight mechanism and protect the sight from damage.

AFTER AMPHIBIOUS OPERATIONS:

- a. Clean your rear sight as soon as possible if it has salt water on it.
- b. Wash your rear sight with fresh water from your canteen or some other source if you don't have time to clean it with CLP right away.