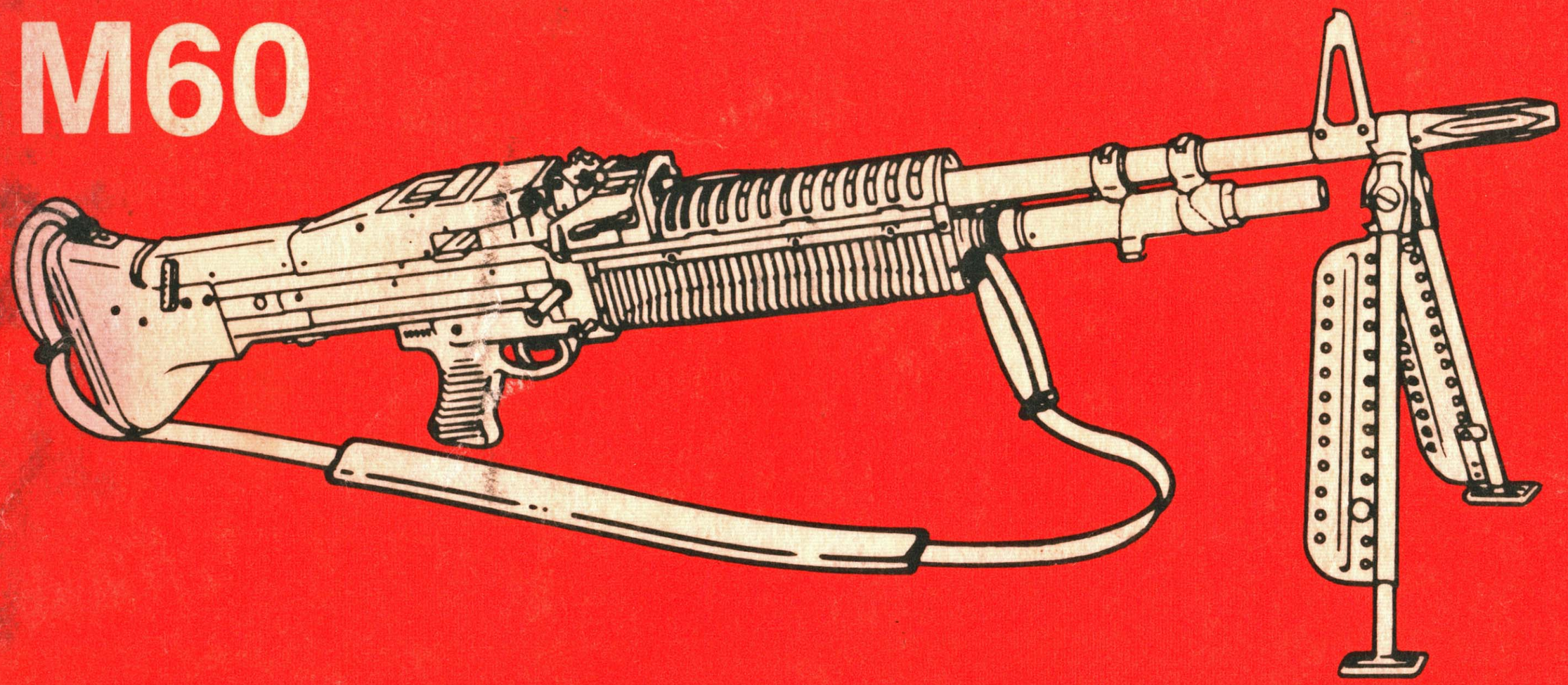
TM 9-1005-224-10

OPERATOR'S MANUAL

M60



7.62-MM MACHINE GUN

NSN 1005-00-605-7710

HEADQUARTERS
DEPARTMENT OF THE ARMY

SAFETY INFO

WARNING

KEEP WEAPON POINTED AT WHAT YOU WANT SHOT— DOWNRANGE/IMPACT AREA

KEEP SAFETY ON 'S' UNTIL YOU'RE READY TO FIRE

ALWAYS EYEBALL THE CHAMBER/BORE AFTER CLEARING THE GUN

CHECK BARREL BORE AND CHAMBER PRIOR TO FIRING

DO NOT INTERCHANGE BOLT ASSEMBLIES OR COMPONENTS FROM ONE WEAPON TO ANOTHER. THIS MAY CAUSE INJURY OR DEATH TO PERSONNEL

CHANGE HOT BARRELS WITH YOUR ASBESTOS MITTEN ONLY OR BY HOLDING BIPOD LEGS. (REFER TO PAGE 20 FOR ADDITIONAL HOT BARREL PROCEDURES)

SAFETY IN FIRING BLANK CARTRIDGES

BLANK AMMUNITION SHOULD NOT BE FIRED TOWARD PERSONNEL WITHIN 20 FEET OF THE MUZZLE BECAUSE FRAGMENTS OF A CLOSURE WAD OR PARTICLES OF UNBURNED PROPELLANT MIGHT INFLICT INJURY WITHIN THAT RANGE

Headquarters
Department of the Army
16 March 1981

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, or DA Form 2028 (Recommended Changes to Publication and Blank Forms), direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished to you.

Hand receipts for Basic Issue Items (BII) and Additional Authorized List (AAL) items are published in a Hand Receipt Manual. The Hand Receipt Manual numerical designation is the same as the related Technical Manual with the letters HR added to the number. These manuals are published to aid in property accountability and are available through: Commander, US Army Adjutant General Publication Center, ATTN: AGDL-OD, 1655 Woodson Road, St. Louis, MO 63114.

FACTS ABOUT YOUR M60 MACHINE GUN AND M122 TRIPOD

The M60 is air-cooled and has fixed headspace allowing quick barrel changes for cooling and maintenance when required. In order to extend the life of the barrels, retain accuracy, and allow continuous firing for prolonged periods, two barrel assemblies are issued with each gun.

WEIGHT:	APPROX 10.4 KG (23 LB) (MACHINE GUN) APPROX 6.8 KG (15 LB) (TRIPOD)
RATE OF FIRE:	AVERAGE BURST 6-9 ROUNDS
SUSTAINED*	100 RPM (4-5 SECONDS BETWEEN BURSTS) CHANGE BARREL EVERY 10 MINUTES
RAPID*	200 RPM (2-3 SECONDS BETWEEN BURSTS) CHANGE BARREL EVERY 2 MINUTES
CONTINUOUS	UNINTERRUPTED FIRING AS LONG AS THE TARGET IS VISIBLE (USED AGAINST AIRCRAFT)

*YOU GET THESE RATES THROUGH PRACTICE. IT'S THOSE SECONDS BETWEEN BURSTS THAT COUNT. DURING COMBAT OPERATIONS, BARRELS ARE CHANGED WHENEVER THE SITUATION PERMITS.

MAXIMUM RANGE AT WHICH YOU HAVE A 50/50 CHANCE OF HITTING THE TARGET WITH EACH BURST:

200 METERS FOR A MOVING POINT TARGET (BIPOD MOUNTED)

600 METERS FOR A STATIONARY POINT TARGET (BIPOD MOUNTED)

800 METERS FOR AN AREA TARGET (BIPOD MOUNTED)

1,100 METERS FOR AN AREA TARGET (TRIPOD MOUNTED)

MAXIMUM RANGE: 3,725 METERS

MAXIMUM GRAZING RANGE:

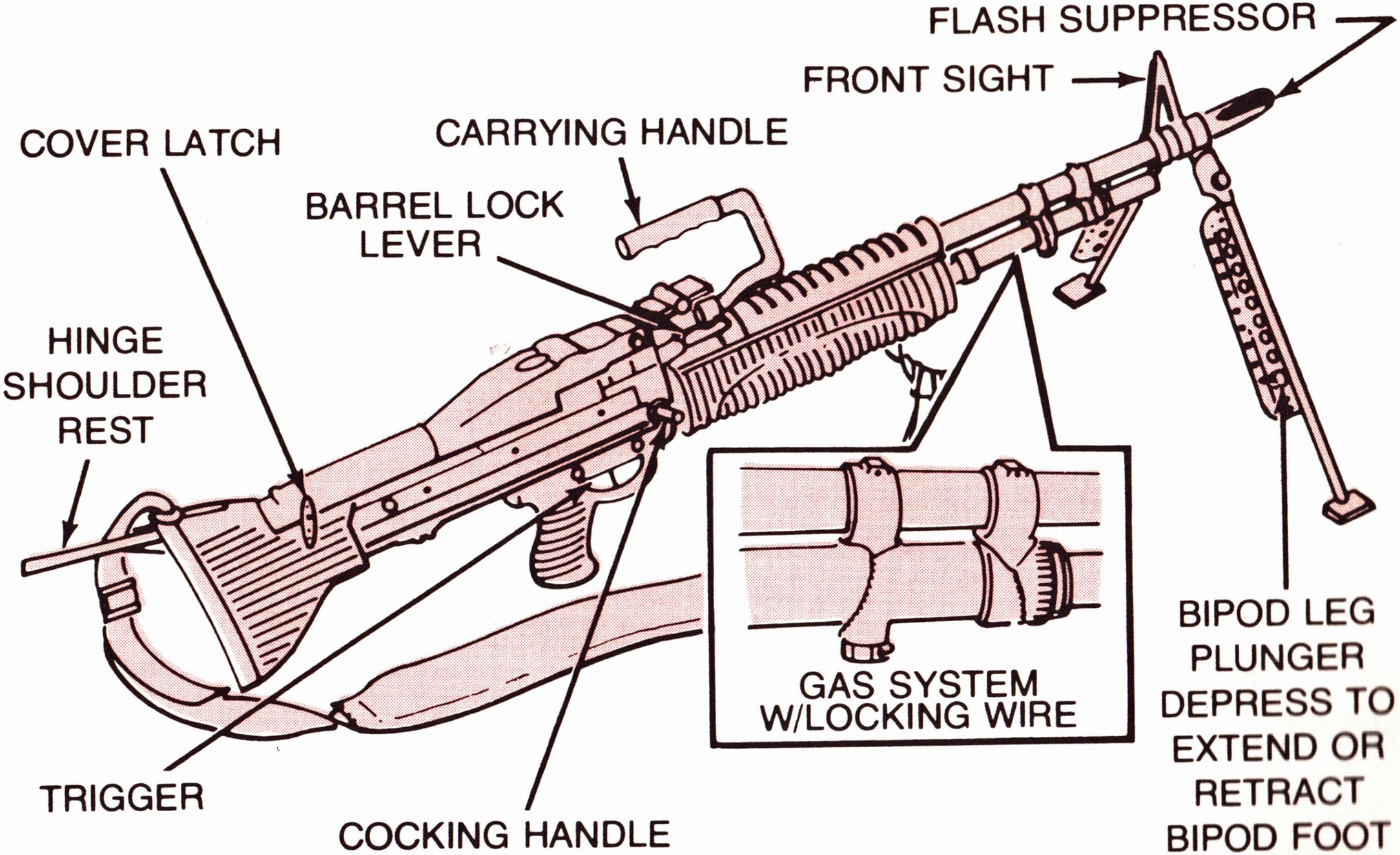
600 METERS

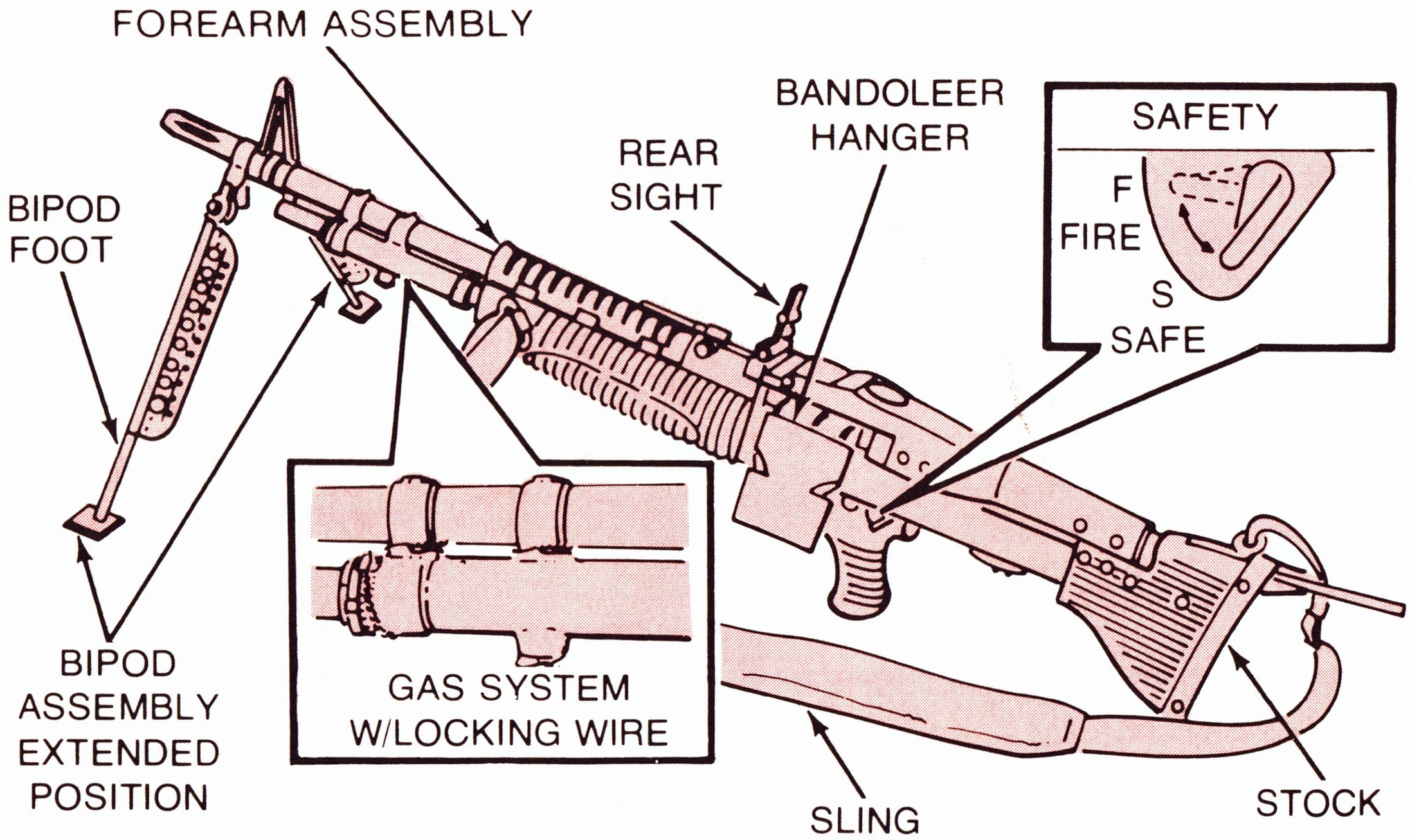
TRACER BURNOUT: APPROX 900 METERS

BANDOLEER CAPACITY:

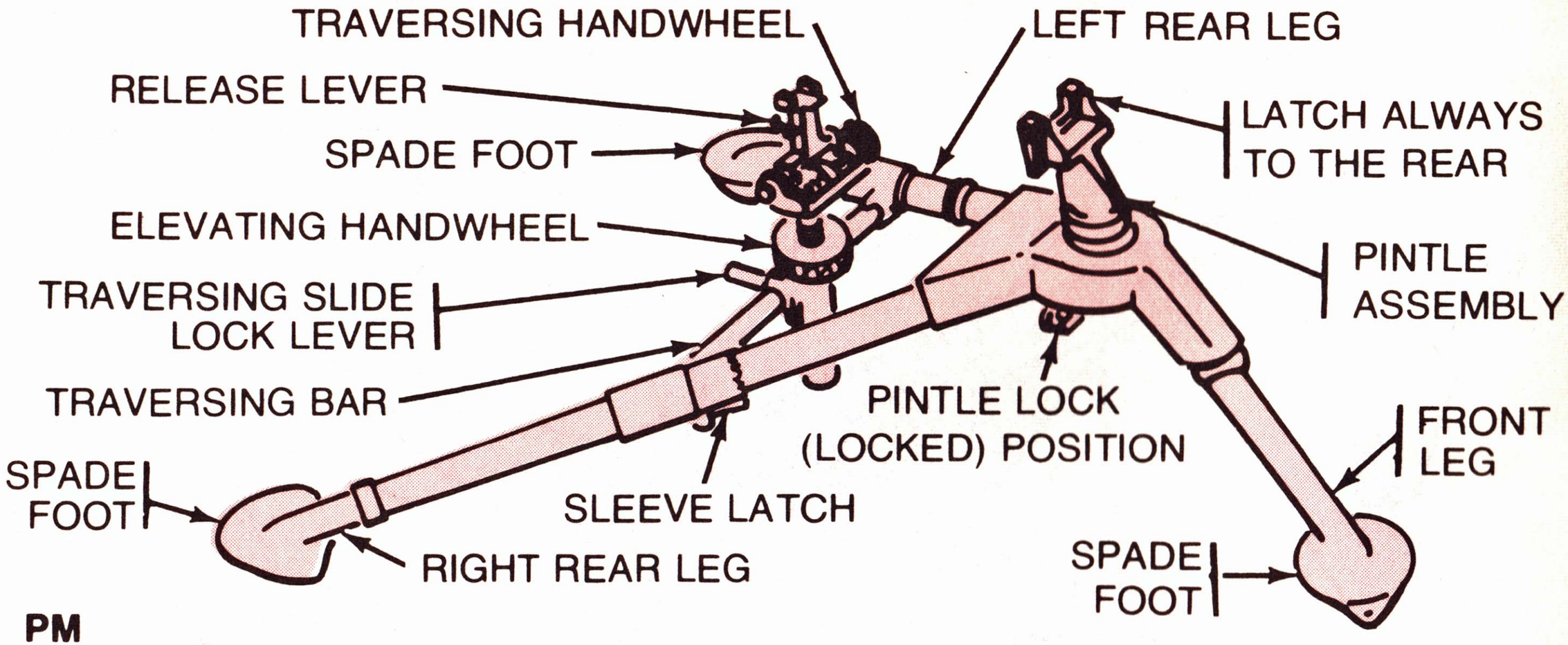
100 ROUNDS

EXTERNAL PARTS AND WHERE TO FIND THEM




FOREARM ASSEMBLY
BANDOLEER HANGER
REAR SIGHT
BIPOD FOOT
SAFETY
F
FIRE
S
SAFE
GAS SYSTEM W/LOCKING WIRE
BIPOD ASSEMBLY EXTENDED POSITION
SLING
STOCK

OPERATING YOUR M122 TRIPOD



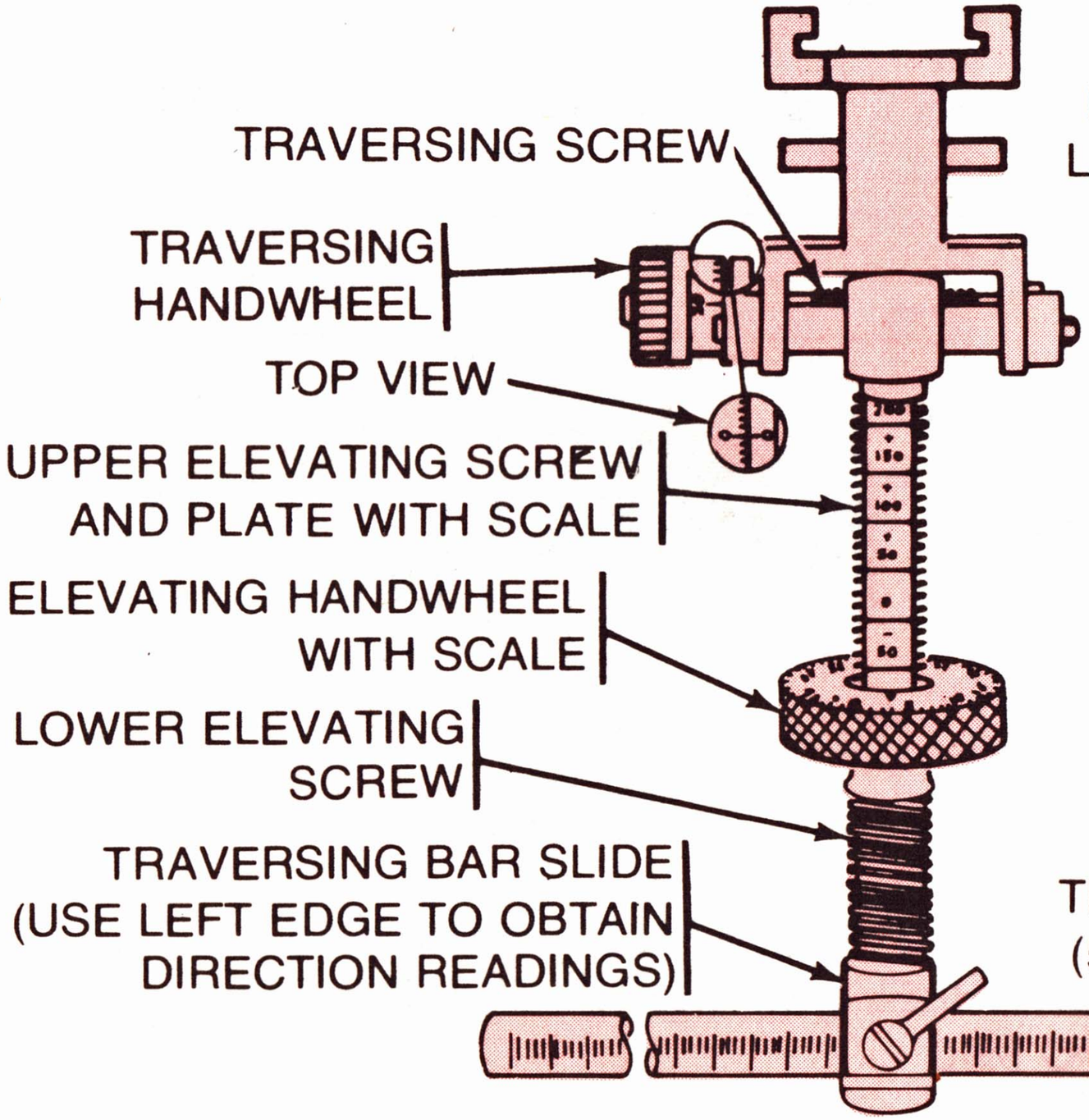
PM

- KEEP CLEAN AND LUBRICATED. CHECK FOR RUST
- TRAVERSING BAR TIGHT WHEN LEGS EXTENDED
- SLEEVE LATCH OPERATES FREELY
- PINTLE FITS SNUGLY IN BUSHING
- PINTLE LOCK HOLDS PINTLE SECURELY

NOTE

FRONT MOUNTING PIN ON GUN IS PLACED AND LATCHED IN POSITION FIRST BEFORE SECURING REAR OF WEAPON TO TRAVERSING AND ELEVATING (T AND E) MECHANISM

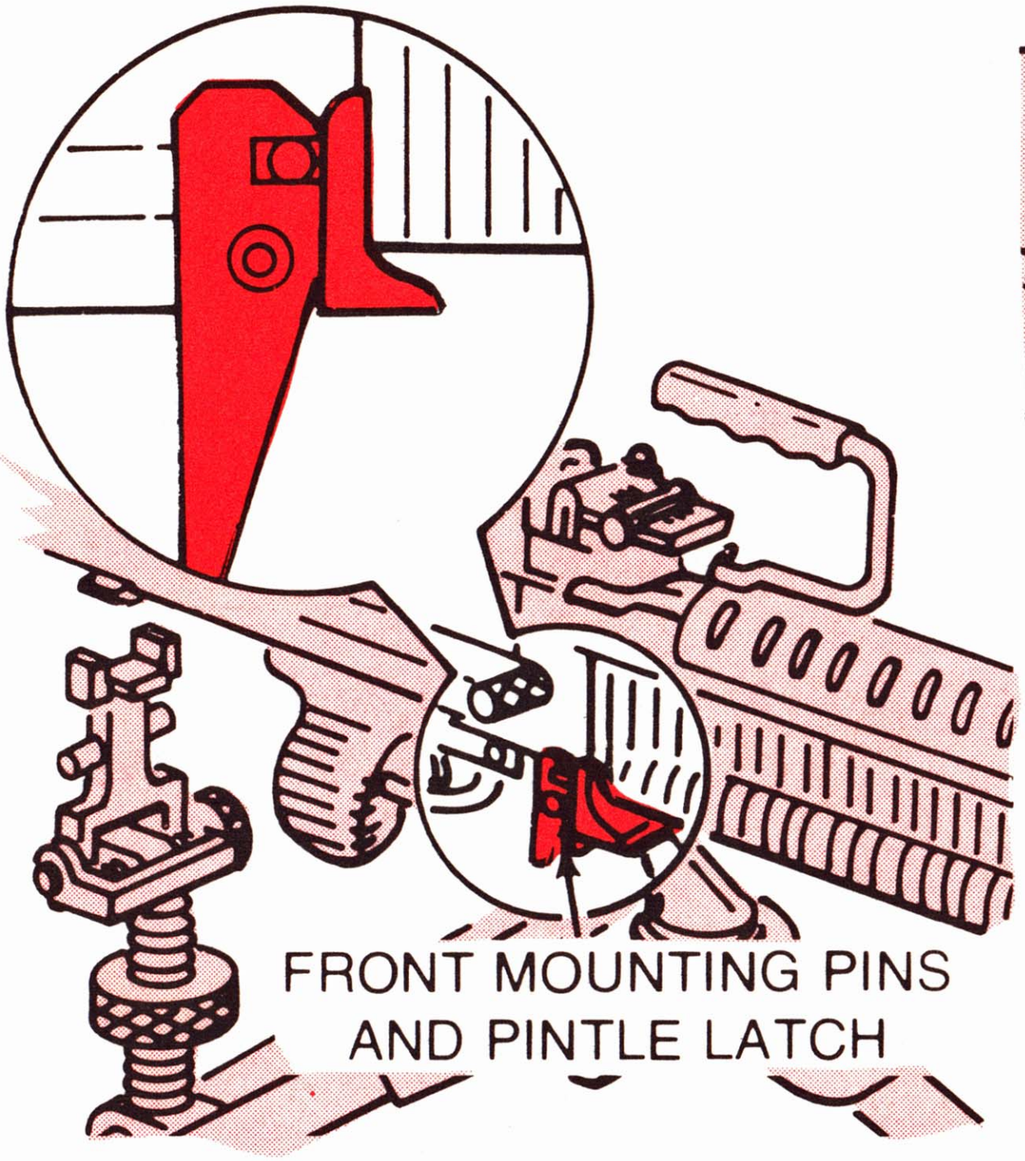
TRAVERSING AND ELEVATING (T AND E) MECHANISM



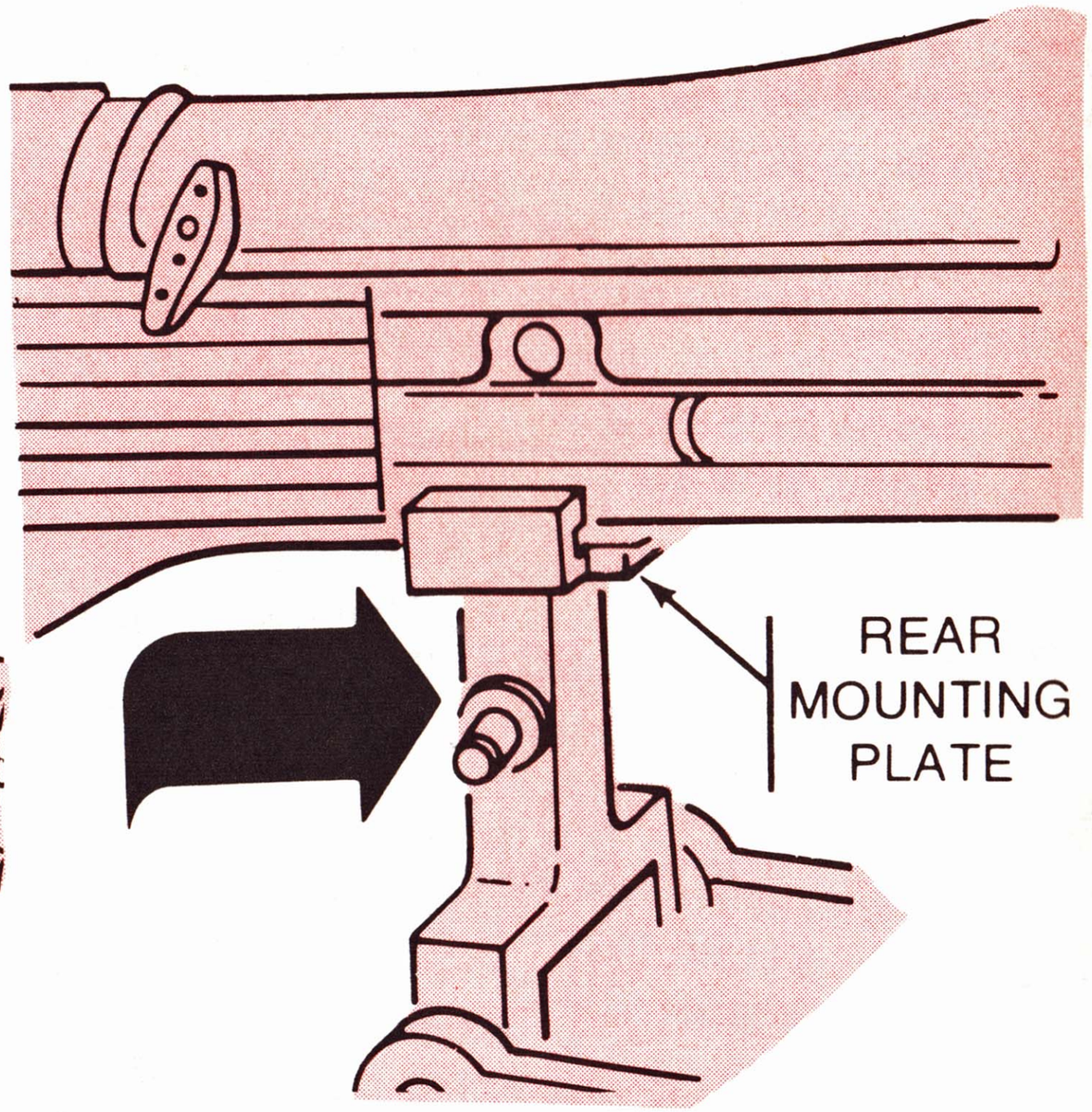
PM - KEEP CLEAN AND LIGHTLY LUBED. CHECK TO MAKE SURE —

- ALL WHEELS WORK
- ALL NUMBERS LEGIBLE
- ALL ZERO INDEXES LINE UP (IF NOT HAVE ARMORER CHECK IT OUT)
- 1 CLICK = 1 MIL ON BOTH WHEELS

HOW TO PUT THE M60 ON TRIPOD



FRONT MOUNTING PINS
AND PINTLE LATCH



NOTE

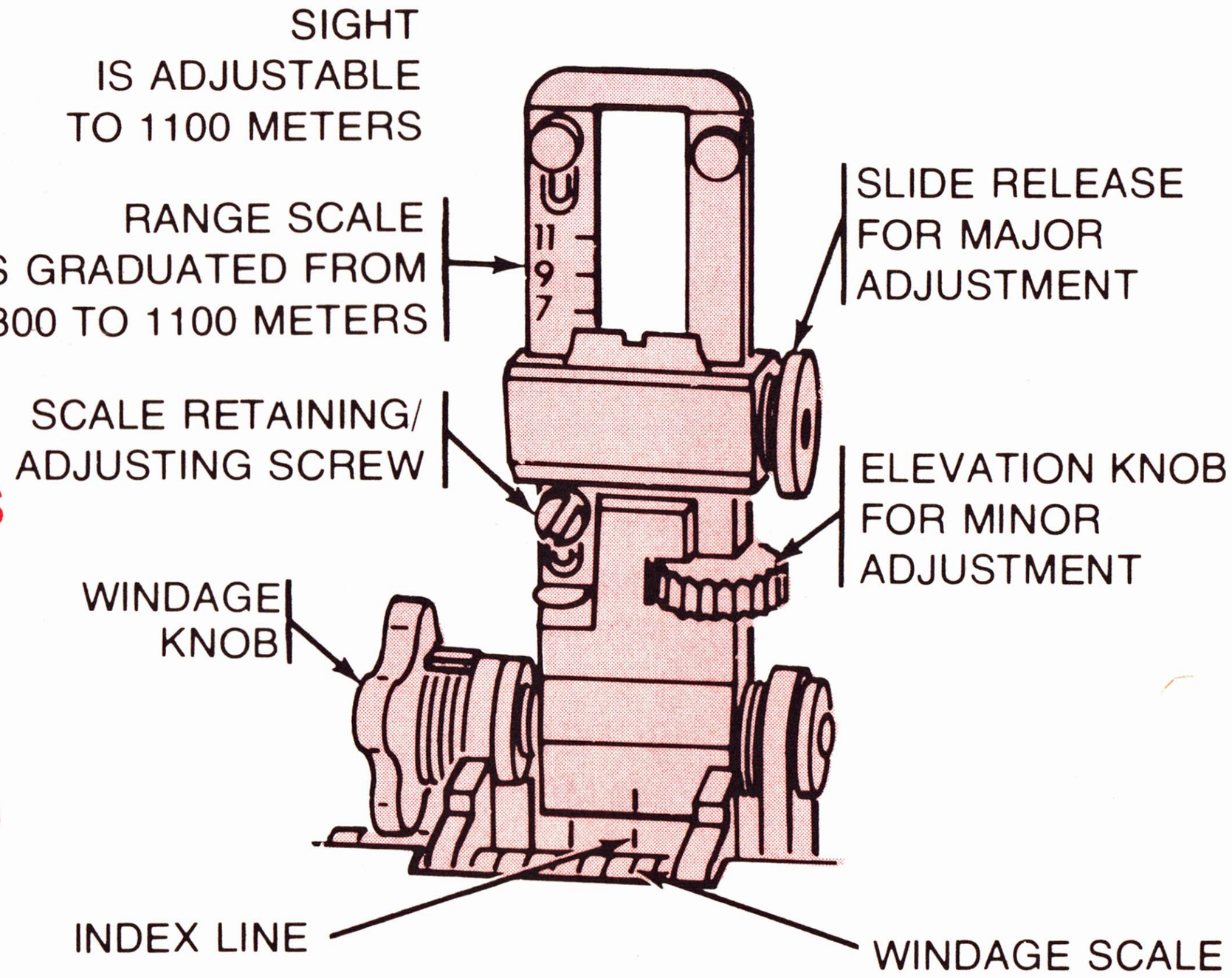
WHEN MOUNTING, MAKE SURE ELEVATING HANDWHEEL AND TRAVERSING HANDWHEEL ARE CENTERED (ZEROED) BEFORE ATTACHING TO M60

REAR SIGHT

CHECK
YOUR
SIGHT

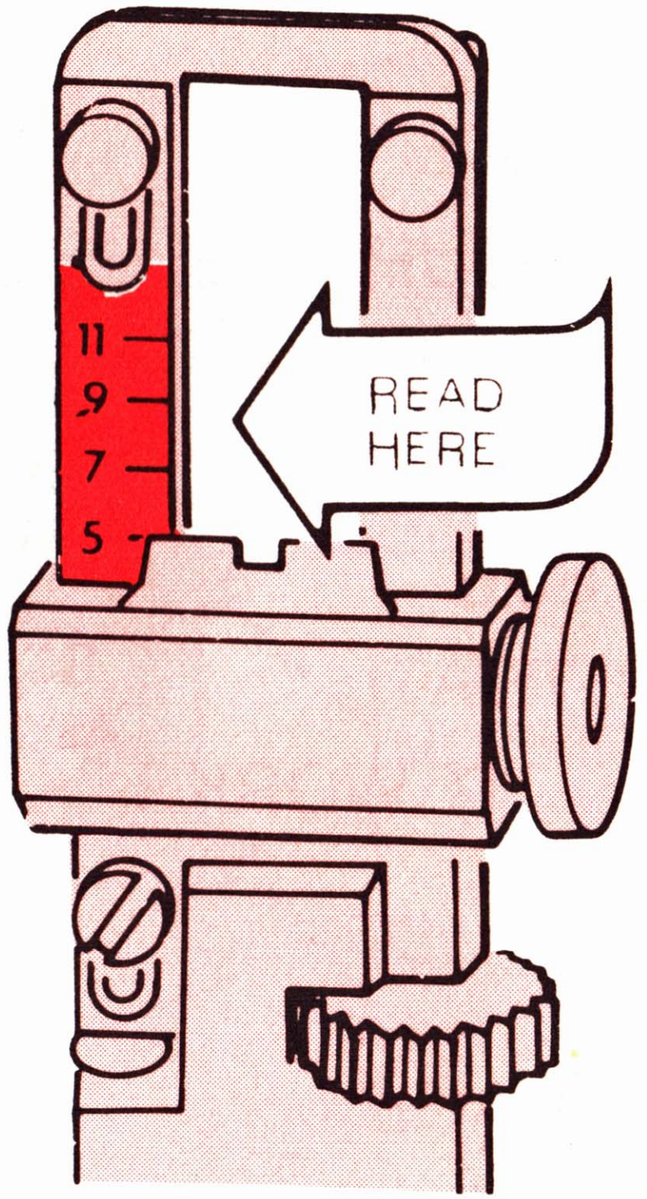
TO SEE
THAT
IT WORKS

NO
DAMAGE
ALLOWED



FIELD ZEROING

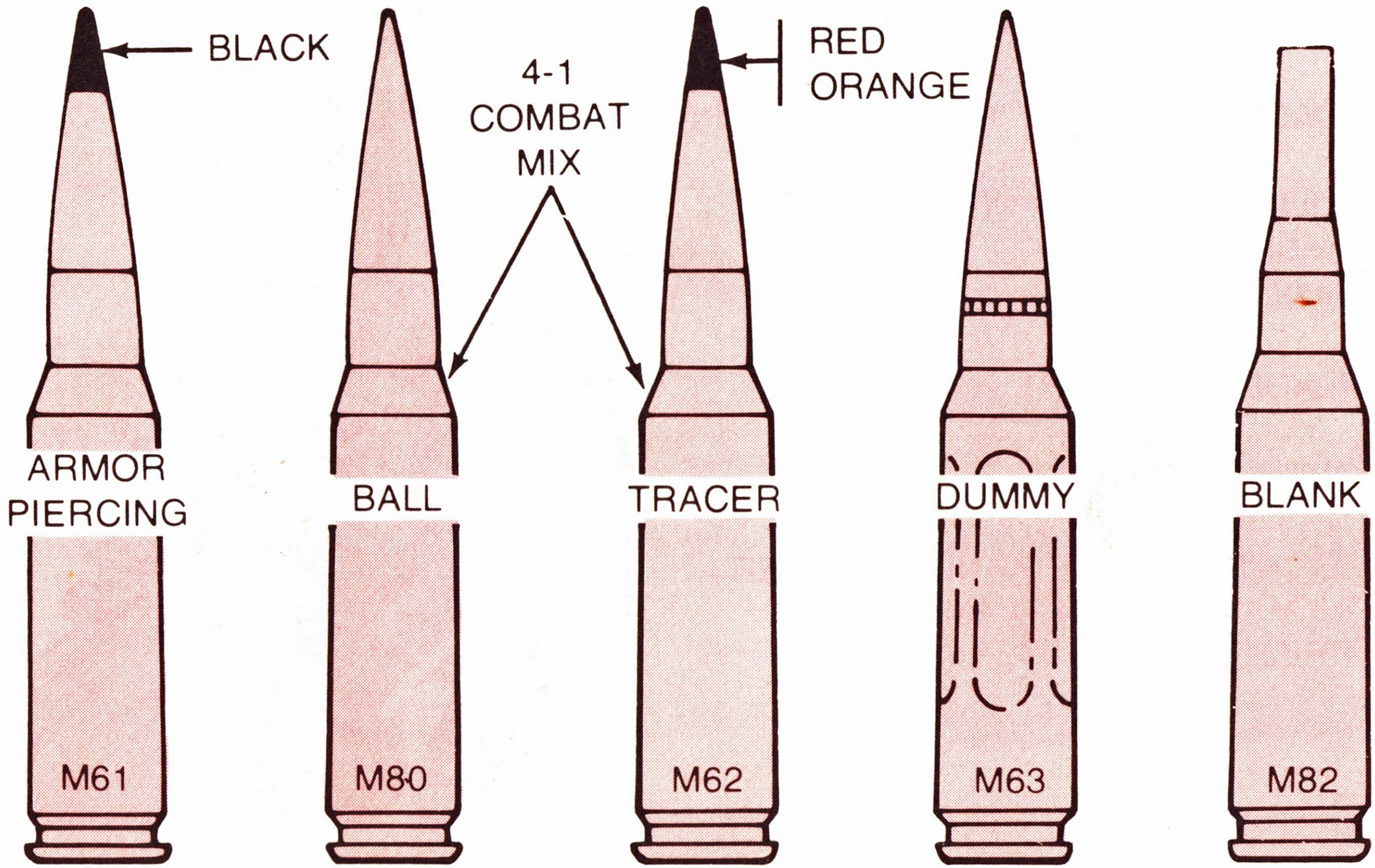
- CHOOSE A TARGET BETWEEN 300/700 METERS
- PLACE 500 METERS ON REAR SIGHT
- INDEX ZERO WINDAGE ON WINDAGE SCALE
- AIM AT SIX O'CLOCK AT BOTTOM OF TARGET
- FIRE A BURST OF 6 TO 9 ROUNDS AND OBSERVE IMPACT OF BURST
- CORRECT WINDAGE FIRST, THEN RANGE, BY TURNING THE WINDAGE AND ELEVATION KNOBS UNTIL A BURST OF 6 TO 9 ROUNDS IS ON TARGET
- LOOSEN RANGE PLATE SCREW AND ADJUST RANGE SCALE SO THE 500M MARK IS ON THE TOP OF THE SLIDE



NOTE

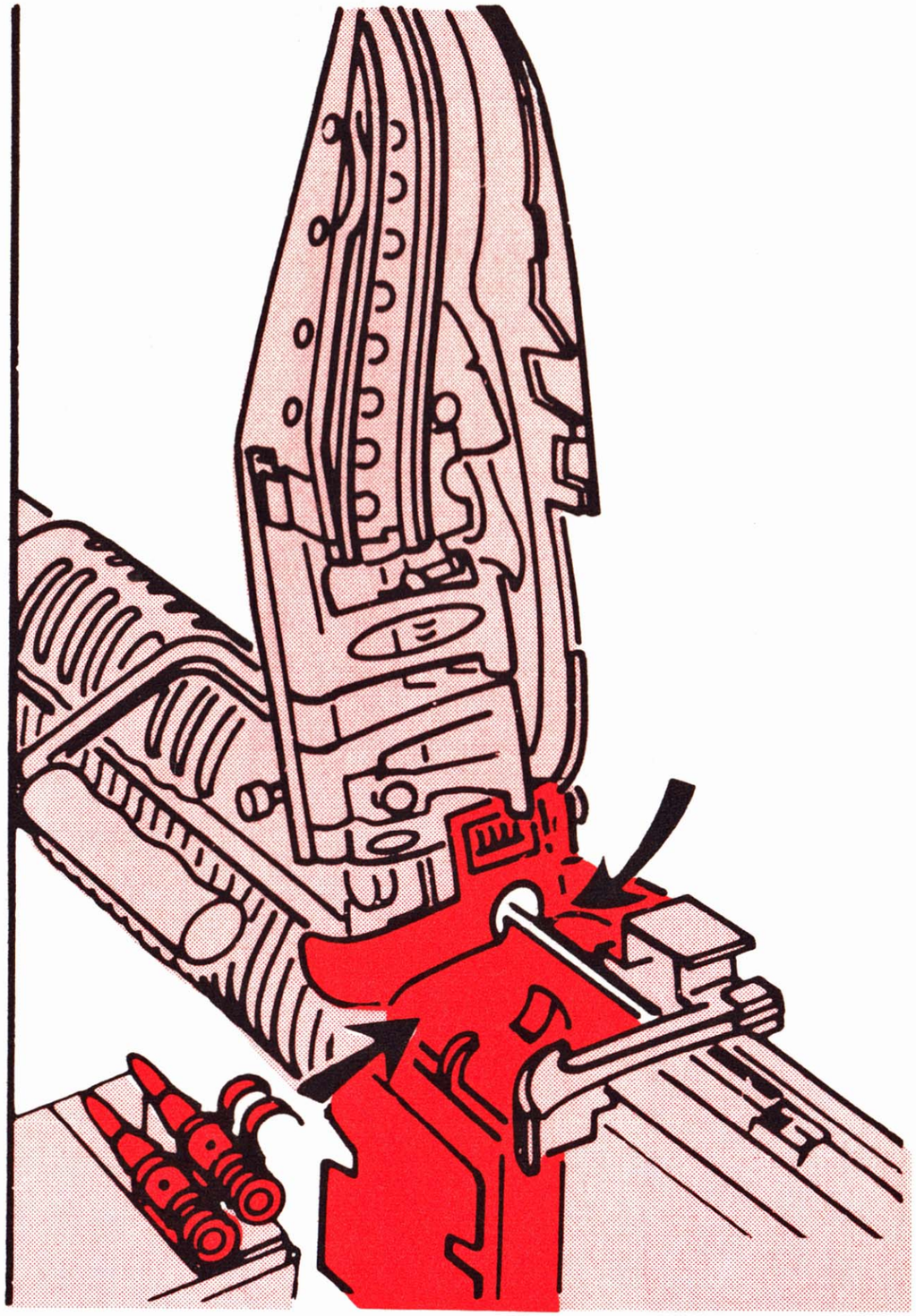
1 MIL IS EQUAL TO 1 METER AT 1000 METERS

AMMO 7.62-MM NATO



LOADING

- POINT WEAPON DOWN RANGE
- PLACE SAFETY TO 'F'
- PULL COCKING HANDLE REAR-WARD AND RETURN COCKING HANDLE TO ORIGINAL POSITION
- PLACE SAFETY TO 'S'
- OPEN COVER
- LOOK IN CHAMBER AND RECEIVER TO MAKE SURE NO AMMO IS PRESENT



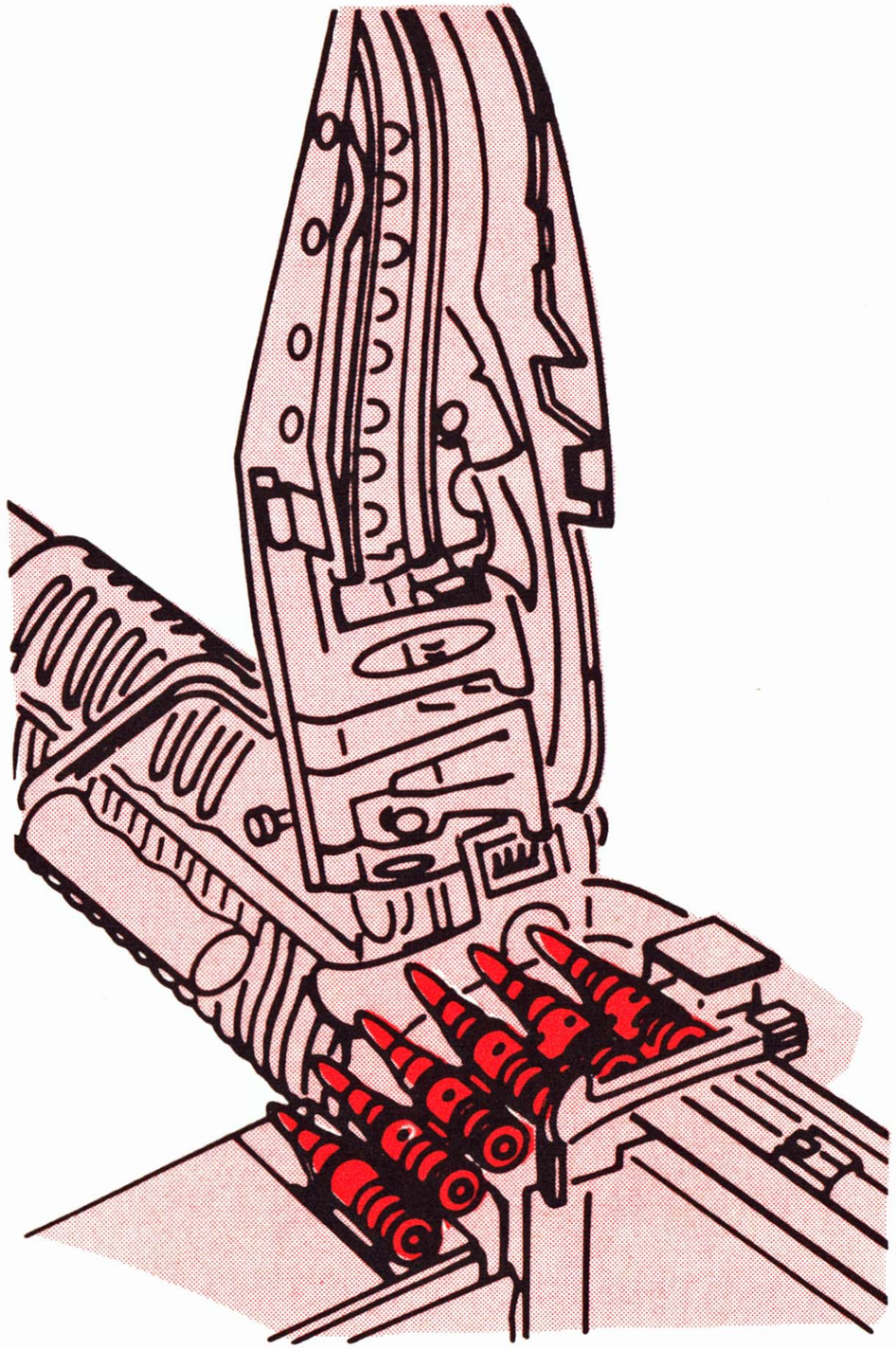
- PLACE BANDOLEER ON BAN-DOLEER HANGER

- PLACE AMMO ON FEED TRAY, OPEN SIDE OF LINKS DOWN WITH FIRST ROUND IN THE FEED GROOVE (CHECK RETENTION OF AMMO LINK, WITH BELT HOLDING PAWL)

- CLOSE COVER

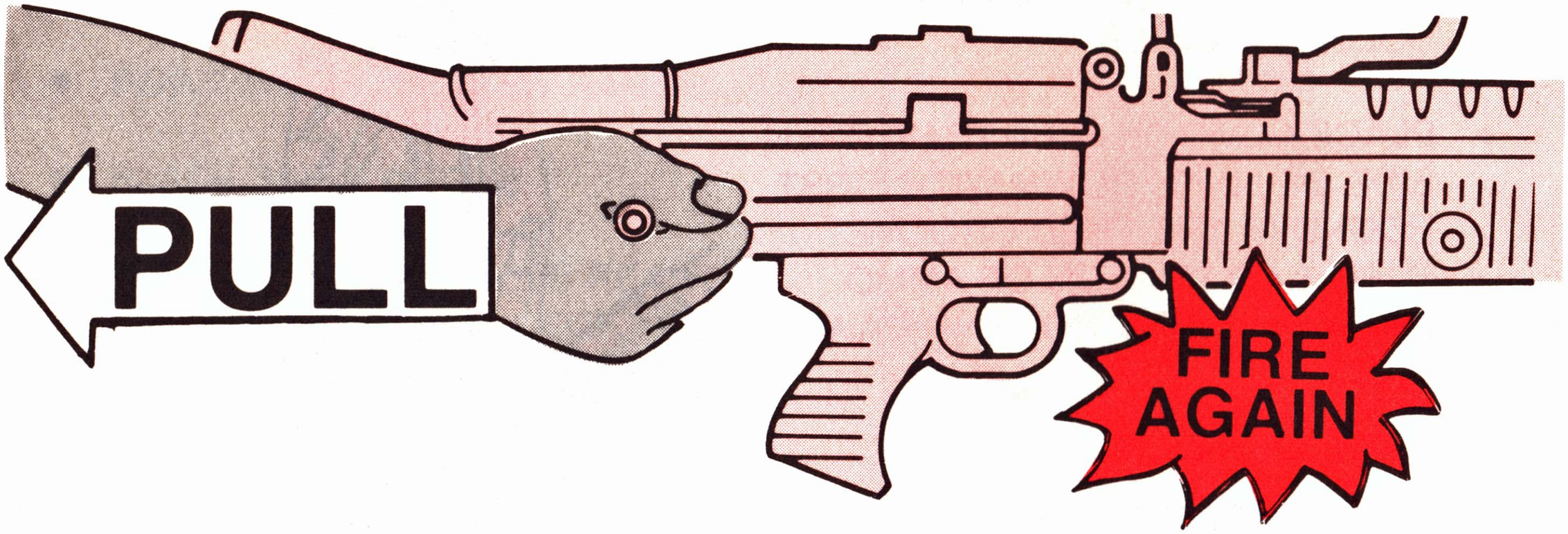
- PLACE SAFETY TO 'F'

- READY TO FIRE



IMMEDIATE ACTION

IF AN M60 MACHINE GUN STOPS FIRING, TAKE THE FOLLOWING ACTIONS WITHIN 10 SECONDS



1 PULL COCKING HANDLE REARWARD

2 CHECK EJECTION PORT

3 IF A ROUND OR FIRED CASE IS EJECTED, RETURN COCKING HANDLE FORWARD AND THEN FIRE AGAIN

4 IF NOTHING IS EJECTED AND THE BARREL IS HOT ENOUGH TO CAUSE A COOKOFF (200 ROUNDS FIRED WITHIN TWO MINUTES), WAIT AT LEAST 15 MINUTES WITH THE BOLT IN THE REAR. REPEAT REAR (SEARED) POSITION

WARNING

IF COVER IS OPENED ON A HOT CARTRIDGE, AN OPEN COVER COOKOFF COULD OCCUR AND RESULT IN SERIOUS INJURY OR DEATH.



5 INSURE COVER IS CLOSED

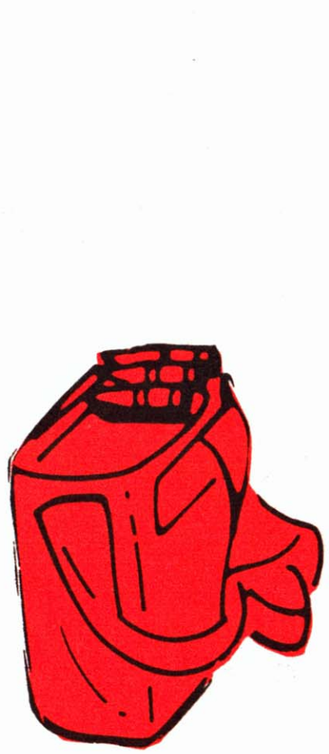
6 EVACUATE IMMEDIATE AREA FOR 15 MINUTES

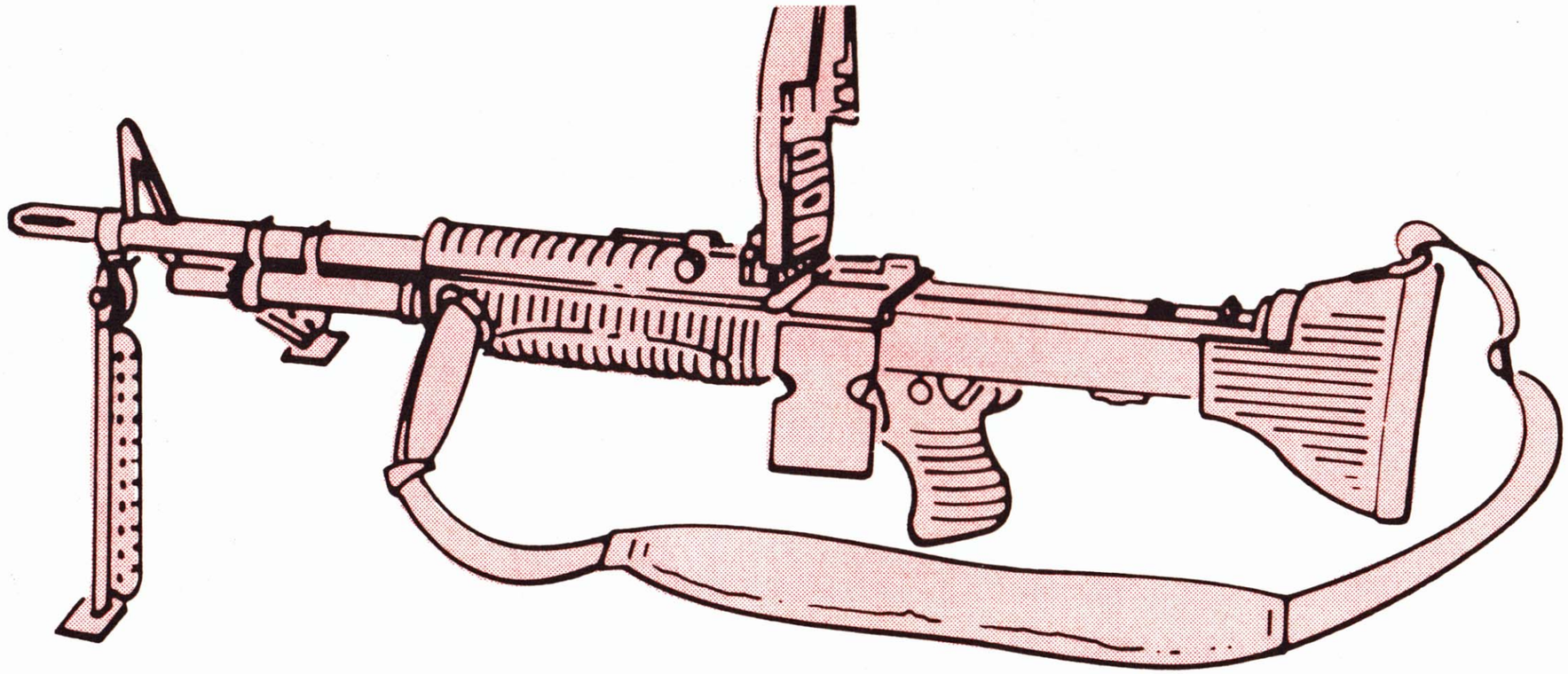
7 IF IMMEDIATE ACTION FAILED TO CORRECT STOPPAGE, TAKE REMEDIAL ACTION (SEE PAGE 16)

REMEDIAL ACTION PROCEDURES

(STEPS TO TAKE IF IMMEDIATE ACTION DOES NOT WORK)

KEEP WEAPON ON TARGET (DOWNRANGE/IMPACT AREA). CLEAR WEAPON WHEN BARREL IS COOL (AFTER 15 MINUTE WAIT)





1 PULL COCKING HANDLE REARWARD

2 IF A ROUND IS NOT EJECTED, PLACE SAFETY TO 'S'

3 OPEN COVER, REMOVE AMMO AND LINKS, AND LIFT FEED TRAY

4 INSPECT RECEIVER, CHAMBER, EXTRACTOR, AND AMMO

5 IF A ROUND IS PRESENT IN CHAMBER, LOWER FEED TRAY AND CLOSE COVER

6 RETURN COCKING HANDLE FORWARD

7 PLACE SAFETY TO 'F'

8 ATTEMPT TO FIRE

9 IF A ROUND IS FIRED AND EJECTED, RELOAD AND CONTINUE TO FIRE

10 IF THE WEAPON DOES NOT FIRE OR EJECT, CLEAR AND UNLOAD WEAPON, AND TURN IN TO UNIT ARMORER FOR REPAIR

STUCK CARTRIDGE CASE

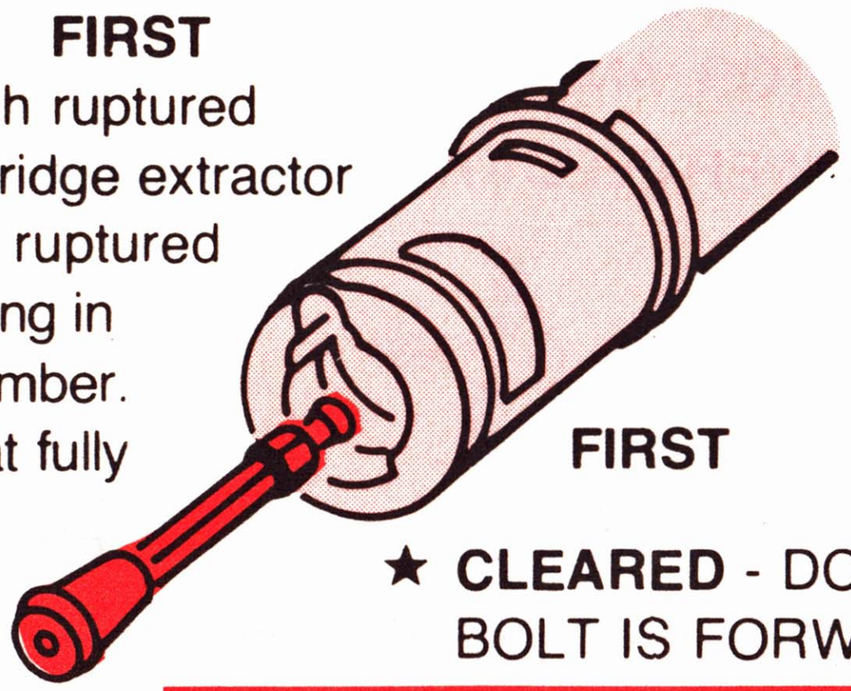
IF IT FIRED AND DIDN'T EXTRACT
—STUCK CARTRIDGE CASE—

- PULL COCKING HANDLE REARWARD AND PLACE SAFETY ON 'S'
- REMOVE BARREL (SEE PAGE 20 FOR TROUBLESHOOTING)
- INSERT CLEANING ROD LESS SWAB HOLDER IN MUZZLE. TAP OUT CASE

★ IF A RUPTURED CARTRIDGE

FIRST

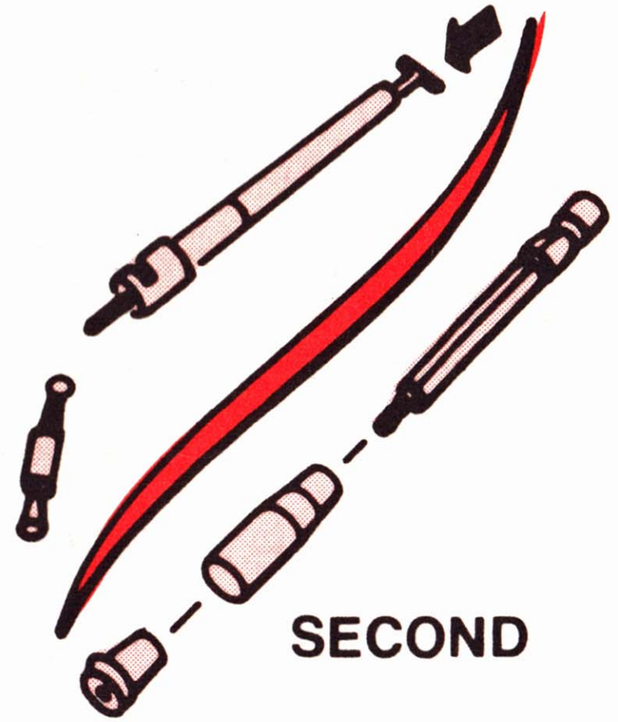
Push ruptured cartridge extractor into ruptured casing in chamber. Seat fully



FIRST

SECOND

Lightly tap out with cleaning rod. Install barrel (see page 48). Close cover. Hold cocking handle rearward. Place safety to 'F'. Pull trigger and ease cocking handle forward



SECOND

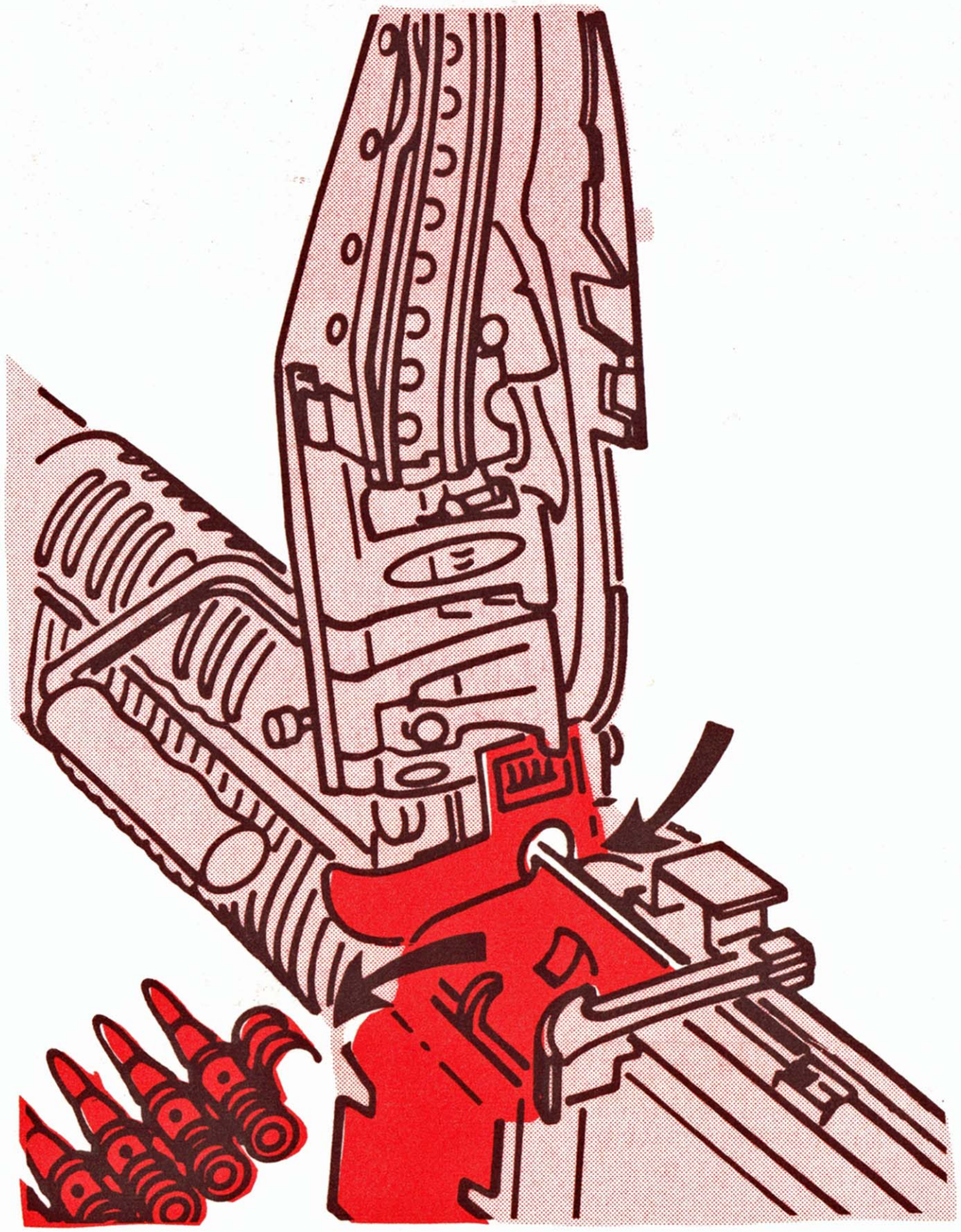
★ **CLEARED** - DO NOT PLACE SAFETY TO 'S' POSITION WHEN BOLT IS FORWARD. LEAVE SAFETY TO 'F' FIRE POSITION

WARNING

AN UNFIRED ROUND WHICH HAS STUCK IS REMOVED BY SAME PROCEDURES LISTED ABOVE. STAY CLEAR OF MUZZLE. DO NOT ALLOW CARTRIDGE TO CONTACT ANY HARD SURFACE. IT MAY FIRE ON CONTACT

CHECK TROUBLESHOOTING GUIDE PAGE 20 FOR MORE ON HOW TO FIX IT

CLEARING AND UNLOADING



- SAFETY SHOULD BE ON 'F'
- PULL COCKING HANDLE REARWARD
- RETURN COCKING HANDLE FORWARD
- PLACE SAFETY ON 'S'
- OPEN THE COVER
- REMOVE THE AMMO AND LINKS
- RAISE FEED TRAY AND BANDOLEER HANGER ASSEMBLY
- EYEBALL THE CHAMBER/RECEIVER
- EMPTY; A - OK

ROUND IN CHAMBER
(SEE PAGE 20 FOR HOT BARREL PROCEDURE OR PAGE 18 FOR STUCK OR RUPTURED CARTRIDGE CASE AND PAGE 20 FOR TROUBLESHOOTING)

TROUBLESHOOTING

WARNING

KEEP WEAPON POINTED AT TARGET/IMPACT AREA. NEVER STAND IN FRONT OF WEAPON OR EXPOSE BODY/HANDS TO BREECH, EJECTION PORT OR MUZZLE

PROBLEM	CHECK FOR	HOW TO FIX IT
COOK OFF*	HOT BARREL — IF YOU HAVE FIRED 200 OR MORE ROUNDS WITHIN 2 MINUTES (RAPID RATE OF FIRE) THE BARREL WILL BECOME HOT ENOUGH TO CAUSE A COOK OFF	CHANGE BARREL OR ALLOW WEAPON TO COOL 15 MINUTES

IN COMBAT ANYTHING GOES. CHANGE BARRELS IF POSSIBLE

*COOK OFF - FUNCTIONING OF A CHAMBERED ROUND OF AMMUNITION, INITIATED BY THE HEAT OF THE WEAPON

PROBLEM	CHECK FOR	HOW TO FIX IT
FAILURE TO FIRE	FAULTY AMMO	REPLACE AMMO
	BROKEN OR DAMAGED FIRING PIN	HAVE UNIT ARMORER REPLACE FIRING PIN
	WEAK OR BROKEN FIRING PIN SPRING, DRIVING SPRING GUIDE, OR OPERATING ROD SPRING	HAVE UNIT ARMORER REPLACE BROKEN COMPONENT

TROUBLESHOOTING - Continued

PROBLEM	CHECK FOR	HOW TO FIX IT
FAILURE TO EXTRACT	EXTRACTOR OR SPRING BROKEN	HAVE UNIT ARMORER REPLACE EXTRACTOR OR SPRING
	SHORT RECOIL	CLEAN GAS PORT, PISTON, GAS CYLINDER, OPERATING ROD, AND CHAMBER
	GAS PISTON INSTALLED BACKWARDS	INSTALL CORRECTLY
	DIRTY AMMO OR CHAMBER	CLEAN AMMO AND/OR CHAMBER

PROBLEM	CHECK FOR	HOW TO FIX IT
SLUGGISH OPERATION	EXCESSIVE FRICTION DUE TO DIRT, CARBON AND/OR BURRS OR LACK OF LUBRICATION	CLEAN AND LUBRICATE, OR NOTIFY UNIT ARMORER TO REMOVE BURRS

TROUBLESHOOTING - Continued

PROBLEM	CHECK FOR	HOW TO FIX IT
FAILURE TO CHAMBER	RUPTURED CARTRIDGE CASE	REMOVE (PAGE 18)
	CARBON BUILD-UP IN GAS CYLINDER	REMOVE CARBON
	CARBON BUILD-UP IN RECEIVER	REMOVE CARBON
	DAMAGED ROUND	*REMOVE ROUND AND RECHARGE WEAPONS
	DIRTY CHAMBER	CLEAN OR REPLACE BARREL

*DISPOSE OF DAMAGED ROUND IN ACCORDANCE WITH RANGE SOP.

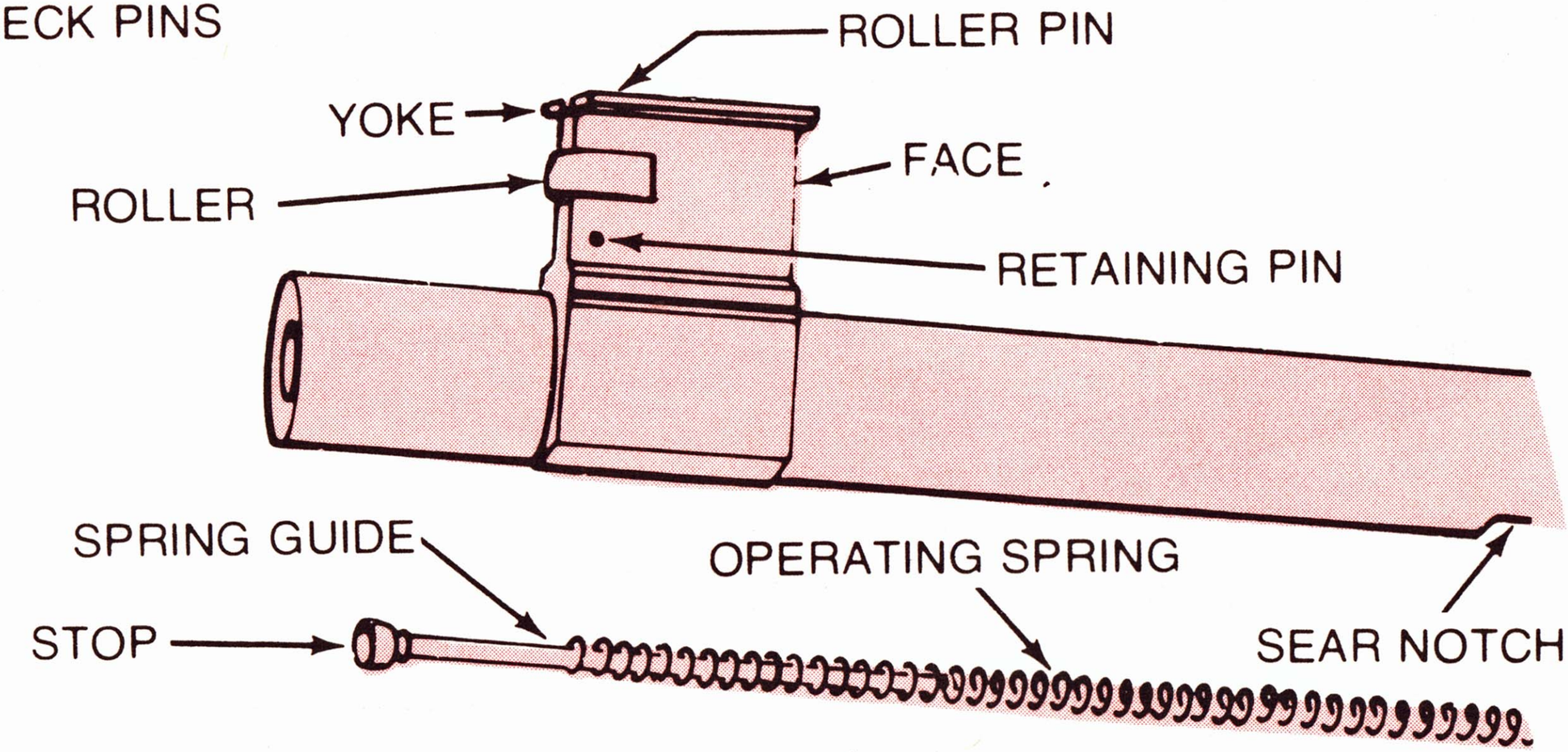
PROBLEM	CHECK FOR	HOW TO FIX IT
FAILURE TO EJECT	FROZEN OR DAMAGED EJECTOR SPRING	HAVE UNIT ARMORER REPLACE EJECTOR SPRING
	SHORT RECOIL	CLEAN GAS PORT, PISTON, GAS CYLINDER, CHAMBER, AND OPERATING ROD TUBE
FAILURE TO COCK OR RUNAWAY GUN	OPERATING ROD SEAR NOTCH WORN SEAR WORN	HAVE UNIT ARMORER REPLACE OPERATING ROD. HAVE UNIT ARMORER REPLACE SEAR
	SEAR PLUNGER OR SPRING BROKEN OR MISSING	HAVE UNIT ARMORER REPLACE SPRING OR PLUNGER

TROUBLESHOOTING - Continued

PROBLEM	CHECK FOR	HOW TO FIX IT
FAILURE TO FEED	INSUFFICIENT GAS PRESSURE (SHORT RECOIL)	CLEAN GAS SYSTEM, CHAMBER, AND SOCKET
	IMPROPER LUBRICATION	LUBE AS REQUIRED
	DEFECTIVE AMMO OR LINKS	USE NEW AMMO BELT
	AMMO BELT INSTALLED WRONG	INSTALL WITH OPEN SIDE OF LINK DOWN
	DAMAGED OR WEAK OPERATING PARTS	HAVE UNIT ARMORER REPLACE
	OBSTRUCTION IN RECEIVER	REMOVE

CLEAN AND INSPECT OPERATING ROD ASSEMBLY

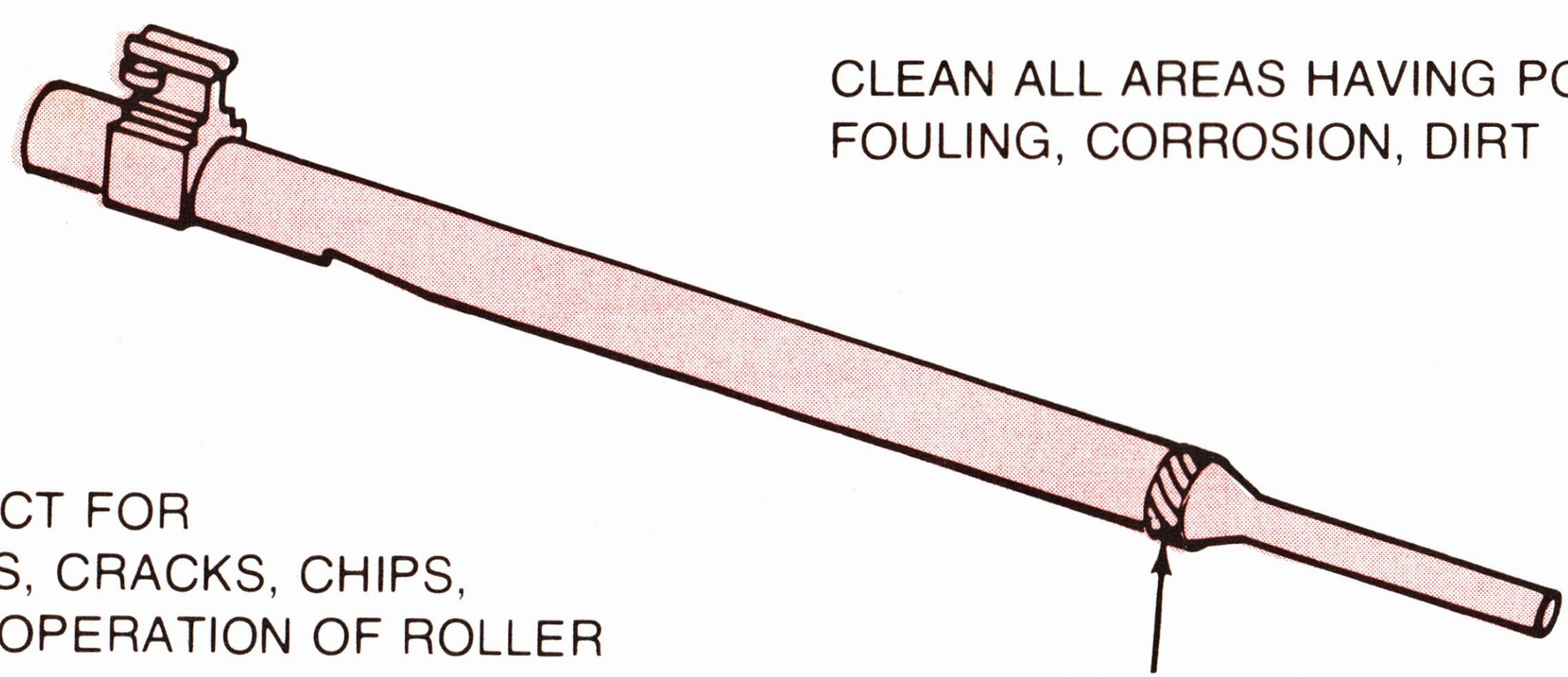
OPERATING ROD, YOKE, BUFFER, GUIDE AND SPRING
CHECK FOR BURRS, CRACKS, CHIPS
CHECK OPERATING ROD YOKE AND SEAR NOTCH
CHECK PINS



CHECK ALL SPRINGS FOR TENSION, KINKS, BREAKS, AND WEAR
CHECK STOP ON END OF SPRING GUIDE — SHOULD BE TIGHT
IF LOOSE, REPLACE THE SPRING GUIDE

CLEAN AND INSPECT OPERATING ROD ASSEMBLY - Continued

OPERATING ROD ASSEMBLY



CLEAN ALL AREAS HAVING POWDER FOULING, CORROSION, DIRT

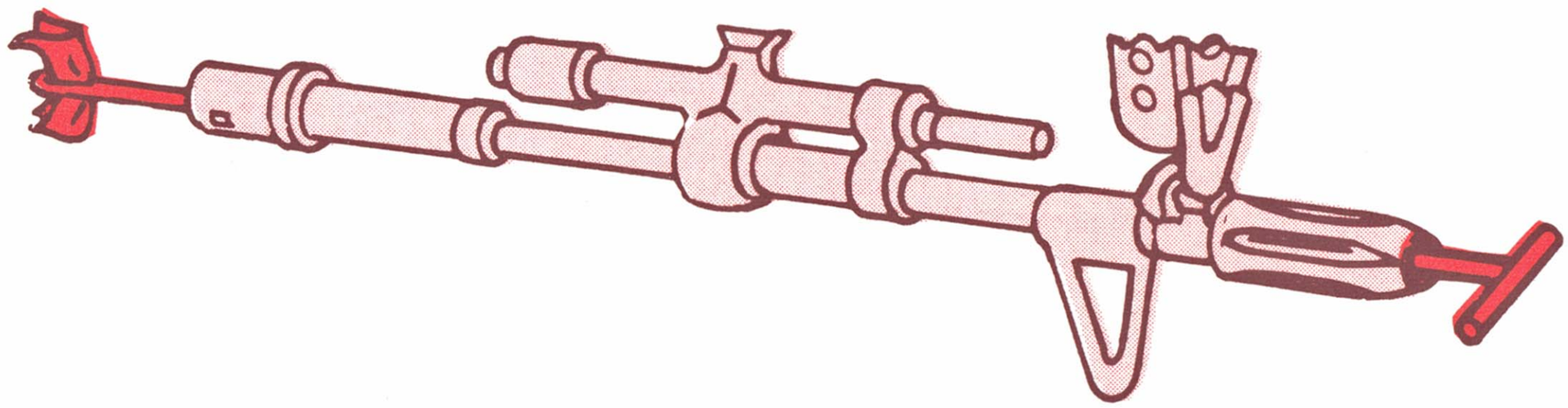
INSPECT FOR
BURRS, CRACKS, CHIPS,
FREE OPERATION OF ROLLER

FLUTED CARBON
REMOVER

CLEAN AND INSPECT BARREL ASSEMBLY

WARNING

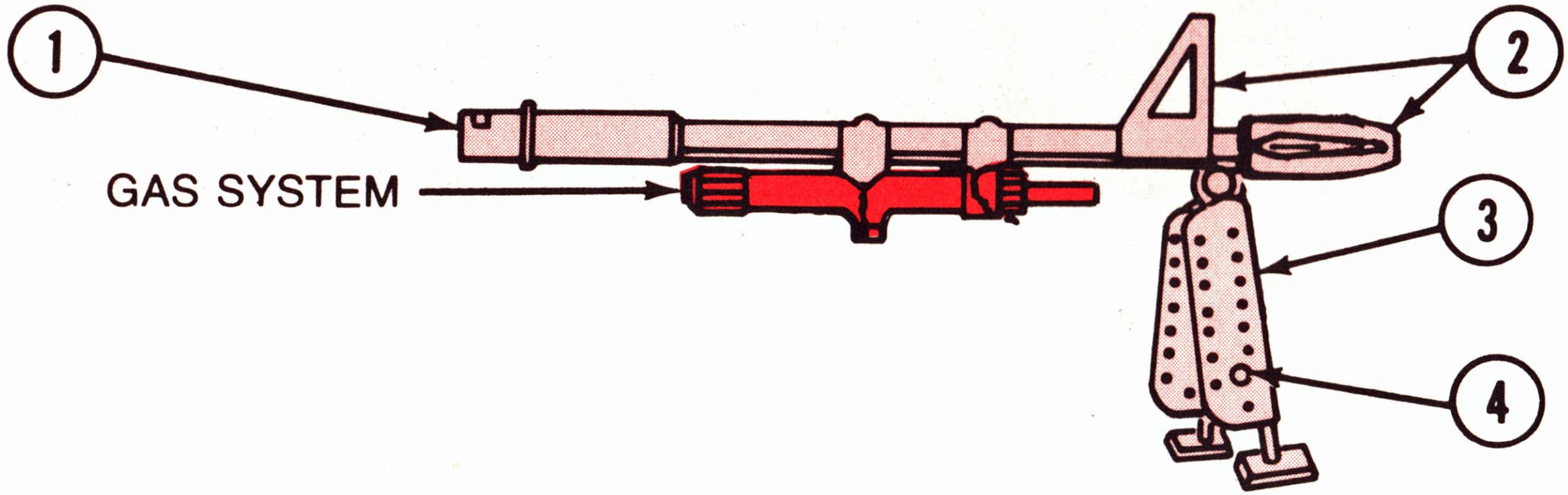
BARRELS ISSUED FOR A SPECIFIC GUN WILL NOT BE CHANGED FROM GUN TO GUN. EACH BARREL AND BOLT SHOULD BE TAGGED DURING CLEANING WITH THE SERIAL NUMBER OF THE RECEIVER (GUN) AND REMAIN TOGETHER AS INITIALLY ASSIGNED.



TURN BARREL UPSIDE DOWN FOR CLEANING TO KEEP PISTON DRY

PISTON 'CLICKS' WHEN BARREL TILTED -
TAKE APART ONLY WHEN YOU DON'T HEAR A CLICK

CLEAN AND INSPECT BARREL ASSEMBLY - Continued

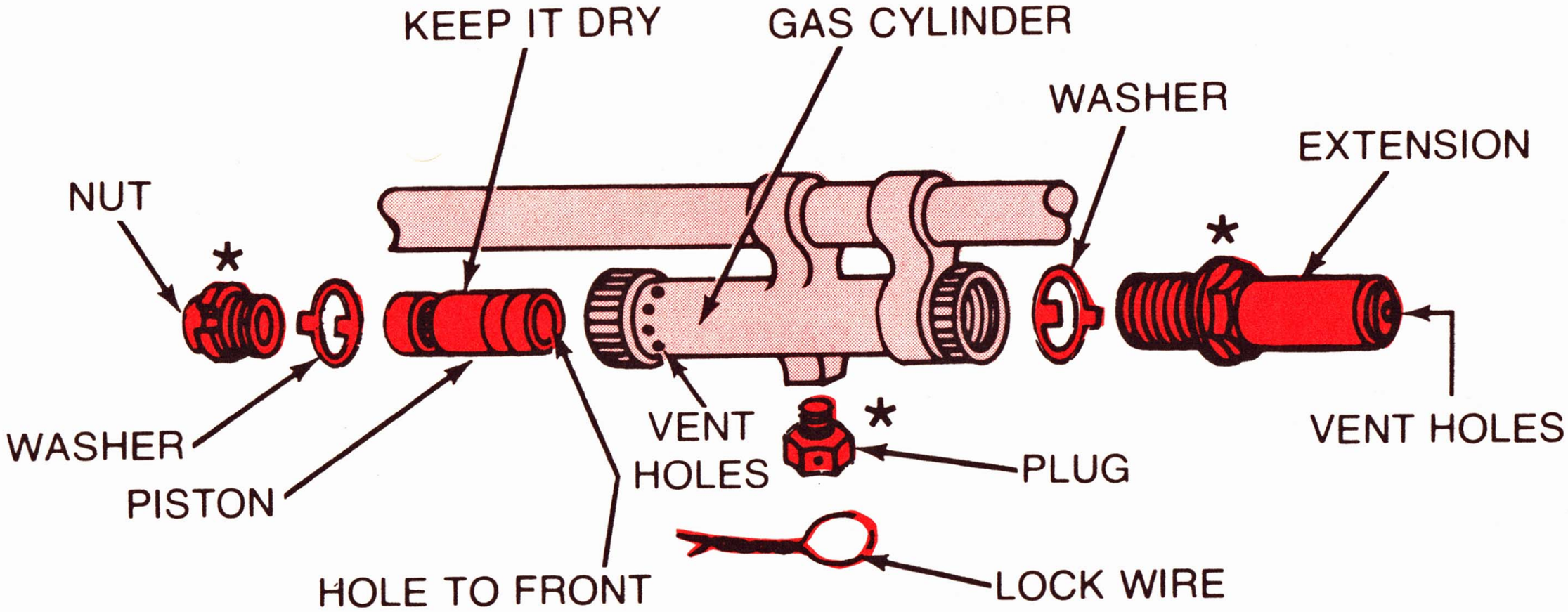


CHECK FOR

1 BURRS, CRACKS, AND WEAR. CHECK BARREL SOCKET AREA CAREFULLY
2 SIGHT AND FLASH SUPPRESSOR TIGHT
3 BIPOD OPERATIONAL, LEGS STRAIGHT, CONNECTIONS TIGHT
4 BIPOD PLUNGERS OPERATE SMOOTHLY

CLEAN AND INSPECT GAS SYSTEM

USE COMBINATION WRENCH
CLEAN ALL PARTS HAVING POWDER FOULING, CORROSION, AND DIRT



*NO TORQUE REQUIREMENT

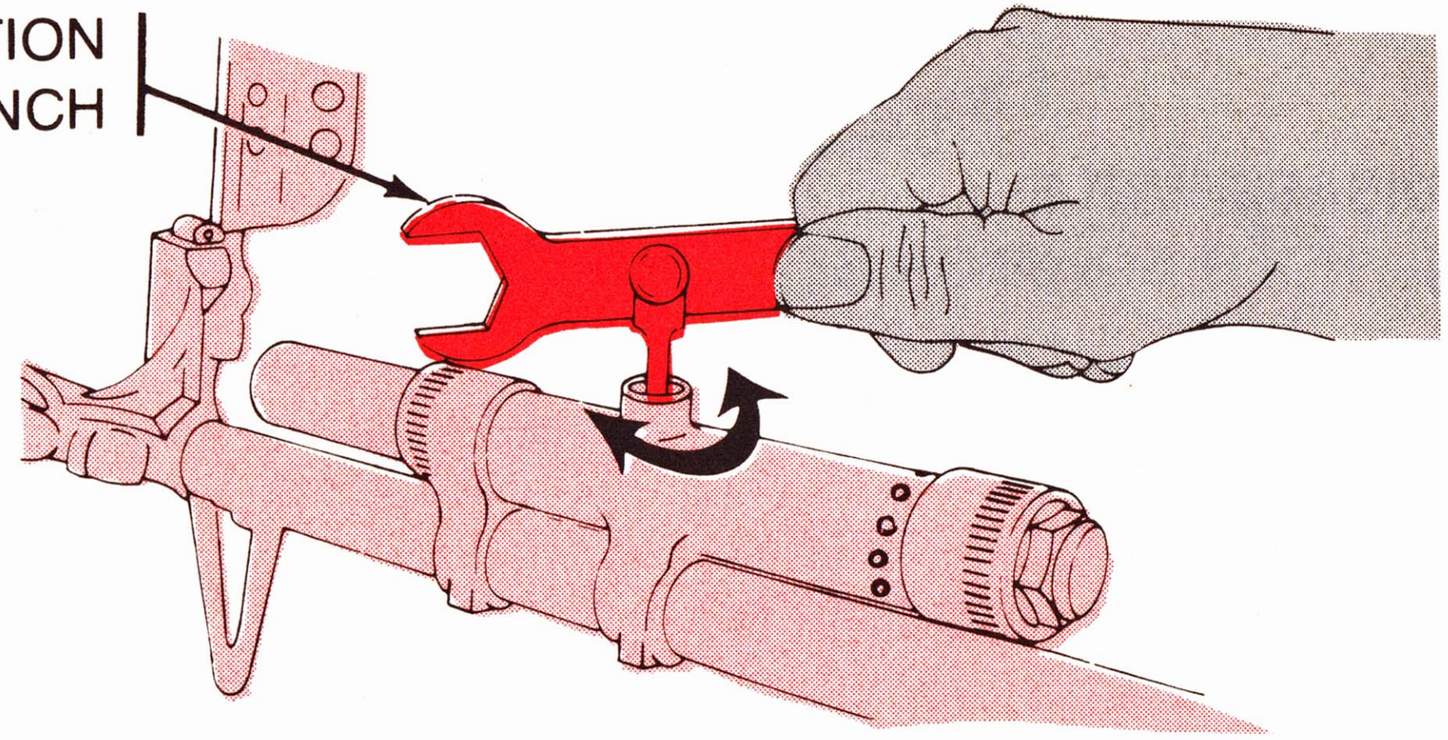
CLEAN AND INSPECT GAS SYSTEM - Continued

1 REMOVE LOCKING WIRE (SEE UNIT ARMORER)
2 DISASSEMBLE WITH COMBINATION WRENCH
3 CLEAN EXTENSION VENT HOLE USING LOCK WIRE

CAUTION

CARE SHOULD BE TAKEN TO PREVENT DAMAGE WHEN INSERTING REAMER

4 CLEAN GAS PORT GAS CYLINDER VENT HOLES WITH REAMER PORTION OF WRENCH



BOTTOM THE REAMER TO ASSURE THAT ALL CARBON HAS BEEN REMOVED. RUN CLEAN PATCH THROUGH BORE TO REMOVE CARBON DEPOSITS

CAUTION

MAKE SURE PISTON IS NOT INSTALLED BACKWARD AND DO NOT GET RIFLE BORE CLEANER OR OIL IN GAS SYSTEM

5 CLEAN OTHER GAS SYSTEM PARTS WITH RBC

6 REASSEMBLE

7 GET UNIT ARMORER TO REPLACE LOCKING WIRES AS SOON AS POSSIBLE

8 WHEN LOCKING WIRE IS NOT AVAILABLE, CHECK PERIODICALLY FOR TIGHTNESS

CLEAN AND INSPECT TRIGGER GROUP

DISASSEMBLE

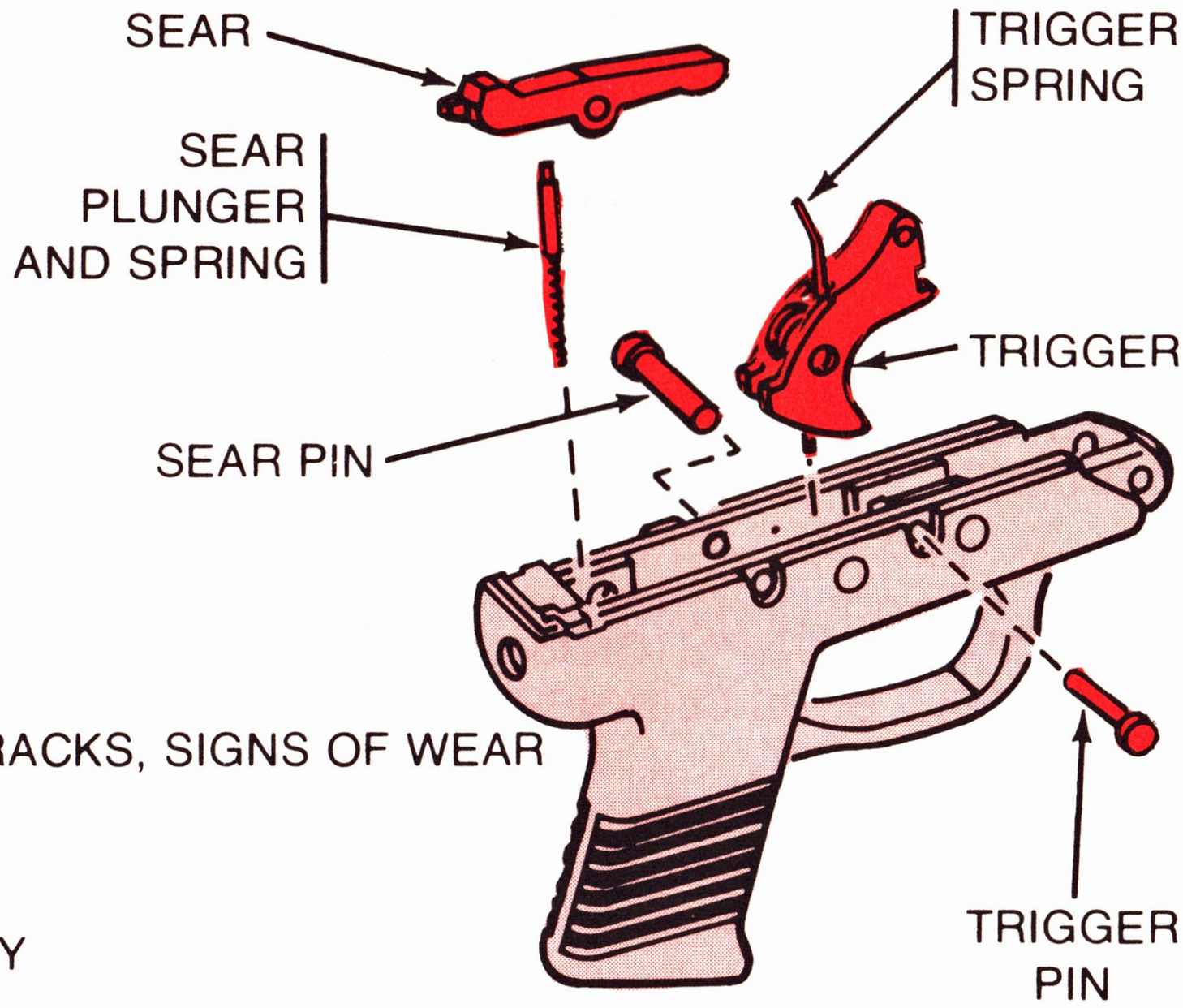
1 HOLD DOWN ON SEAR

2 REMOVE SEAR PIN

3 REMOVE SEAR, SEAR PLUNGER, AND SPRING

4 REMOVE TRIGGER PIN

5 REMOVE TRIGGER

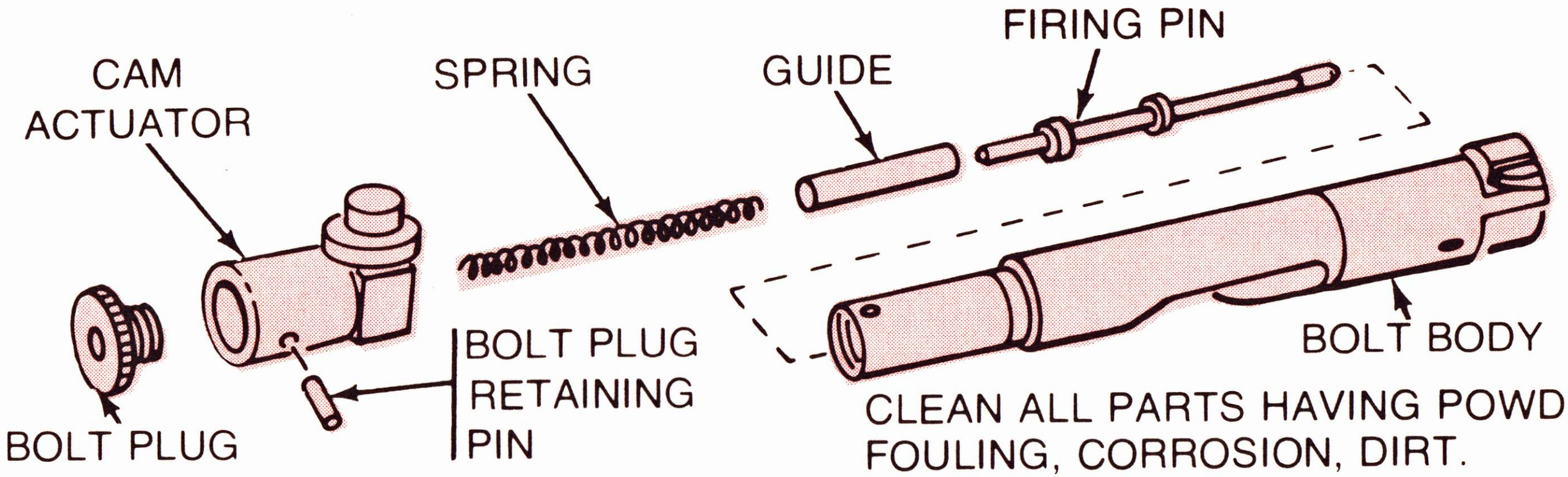


CHECK SEAR FOR CHIPS, CRACKS, SIGNS OF WEAR

CHECK SAFETY
1 'F' - SEAR MOVES FREELY
2 'S' - SEAR MOVES SLIGHTLY

CHECK SEAR PLUNGER AND SPRING FOR SIGNS OF WEAR

CLEAN AND INSPECT BOLT GROUP



CLEAN ALL PARTS HAVING POWDER FOULING, CORROSION, DIRT.

INSPECT FOR BURRS AND CRACKS, KINKED SPRING, THREAD DAMAGE ON PLUG AND BOLT BODY, CRACKS AND FREE OPERATION OF ROLLERS.

DISASSEMBLE

NOTE

USE COMBINATION TOOL REAMER TO REMOVE OR REPLACE RETAINING PIN.

REMOVE RETAINING PIN AND UNSCREW BOLT PLUG. REMOVE CAM ACTUATOR FROM BOLT BODY. SEPARATE SPRING, GUIDE, AND FIRING PIN.

ASSEMBLE

ASSEMBLE FIRING PIN, GUIDE AND SPRING.

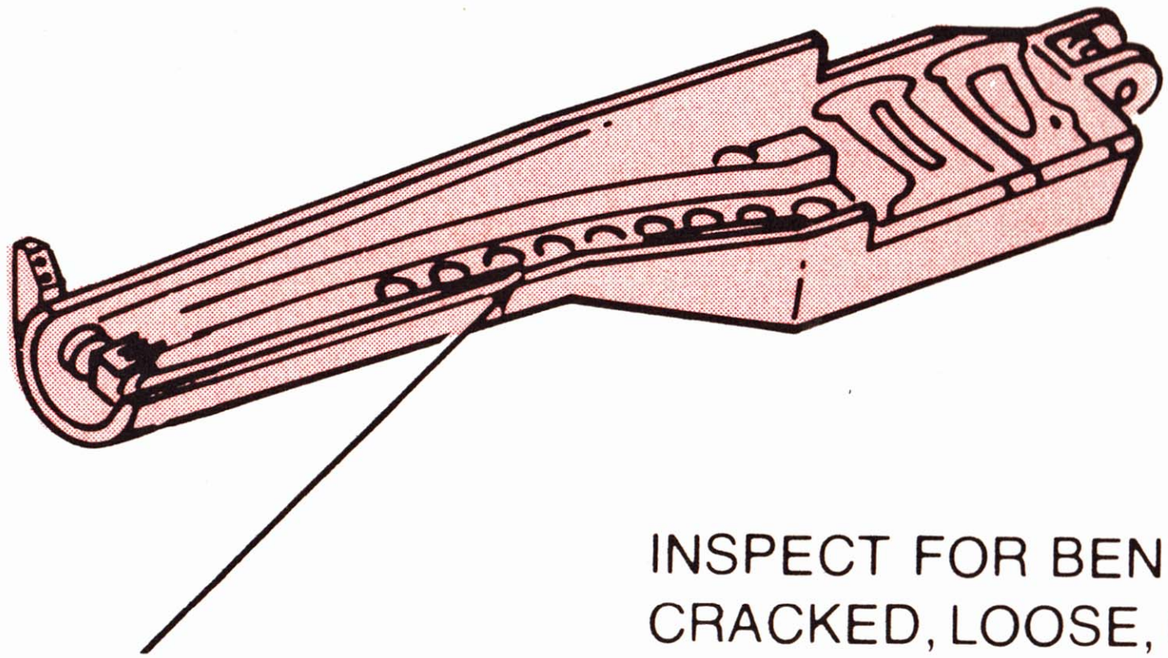
ASSEMBLE CAM ACTUATOR ONTO BOLT BODY WITH ROLLER TO FRONT.

ASSEMBLE THREADED BOLT PLUG ALINING ALL THREE HOLES AND INSERT BOLT PLUG RETAINING PIN.

MAKE SURE ACTUATOR ROTATES FREELY WHEN PIN IS FULLY SEATED.

CLEAN AND INSPECT COVER

CLEAN ALL AREAS HAVING POWDER
FOULING, CORROSION, DIRT



FEED CAM

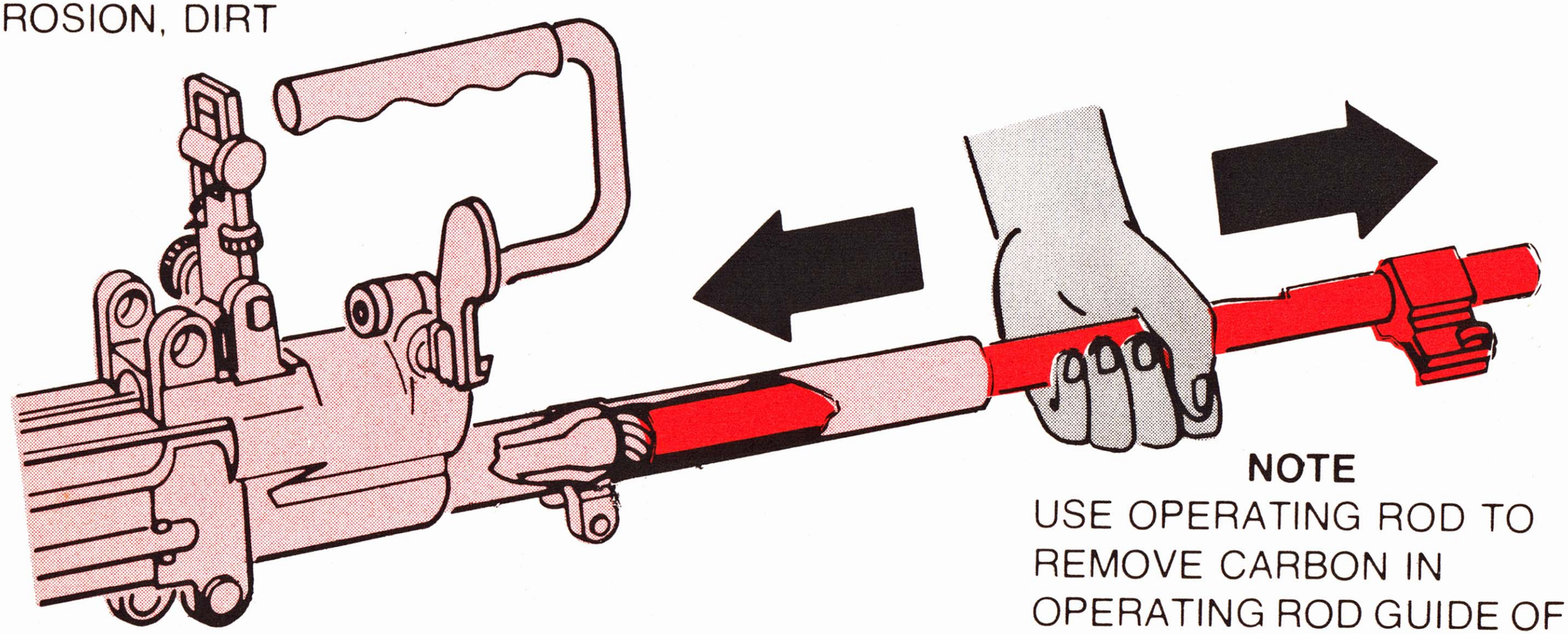
INSPECT FOR BENT, BURRED,
CRACKED, LOOSE, OR MISSING PARTS

SPRING ACTION OF FRONT AND REAR
CARTRIDGE GUIDES, FEED PAWLS,
AND FEED CAM

SECURENESS AND FREE OPERATION
OF FEED CAM

CLEAN AND INSPECT RECEIVER

CLEAN ALL AREAS HAVING POWDER FOULING, CORROSION, DIRT



NOTE

USE OPERATING ROD TO REMOVE CARBON IN OPERATING ROD GUIDE OF RECEIVER WHEN WEAPON IS DISASSEMBLED

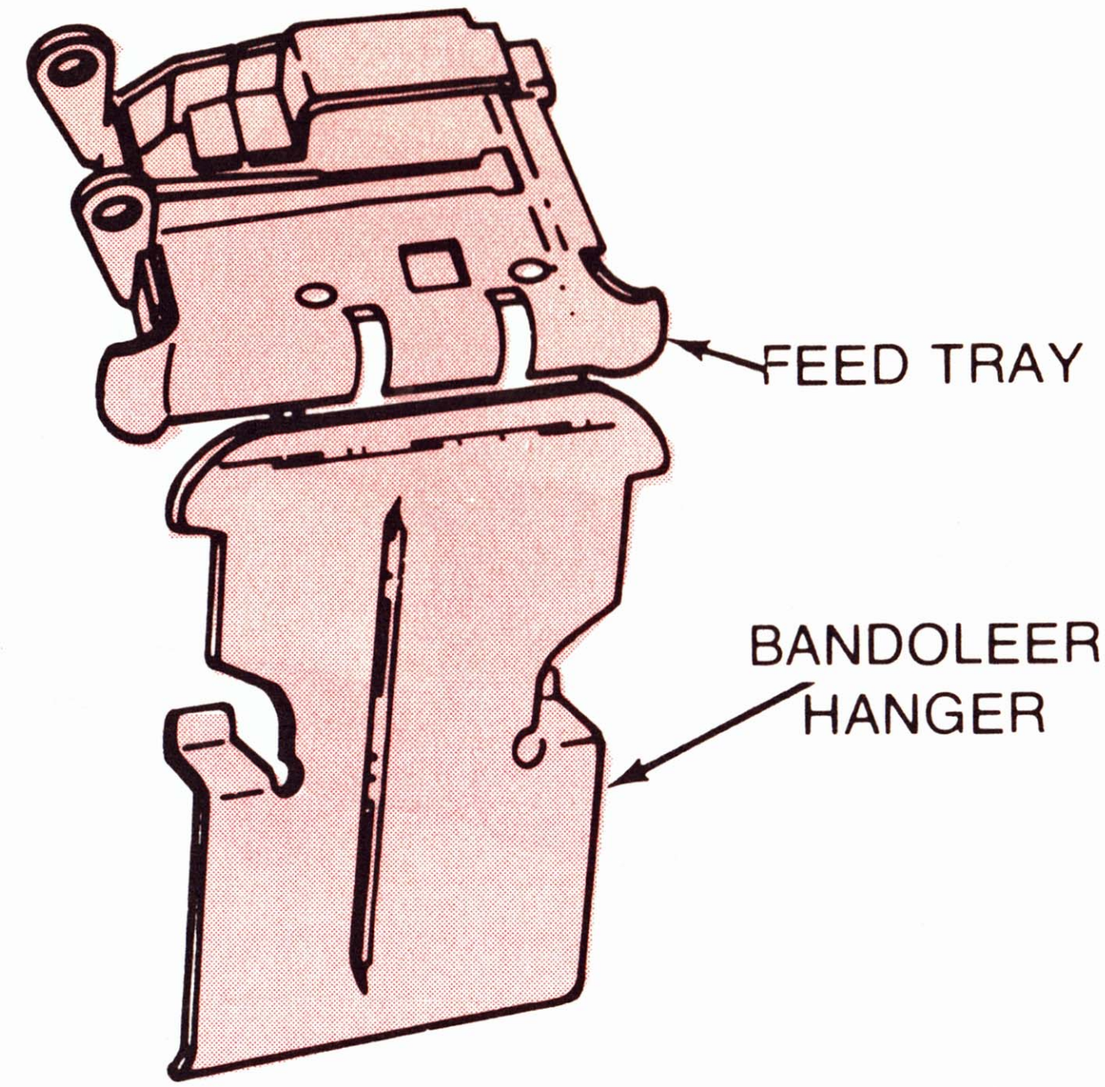
CHECK RECEIVER RAILS FOR BURRS AND WEAR, FREE MOVEMENT OF COCKING HANDLE

CLEAN AND INSPECT FEED TRAY

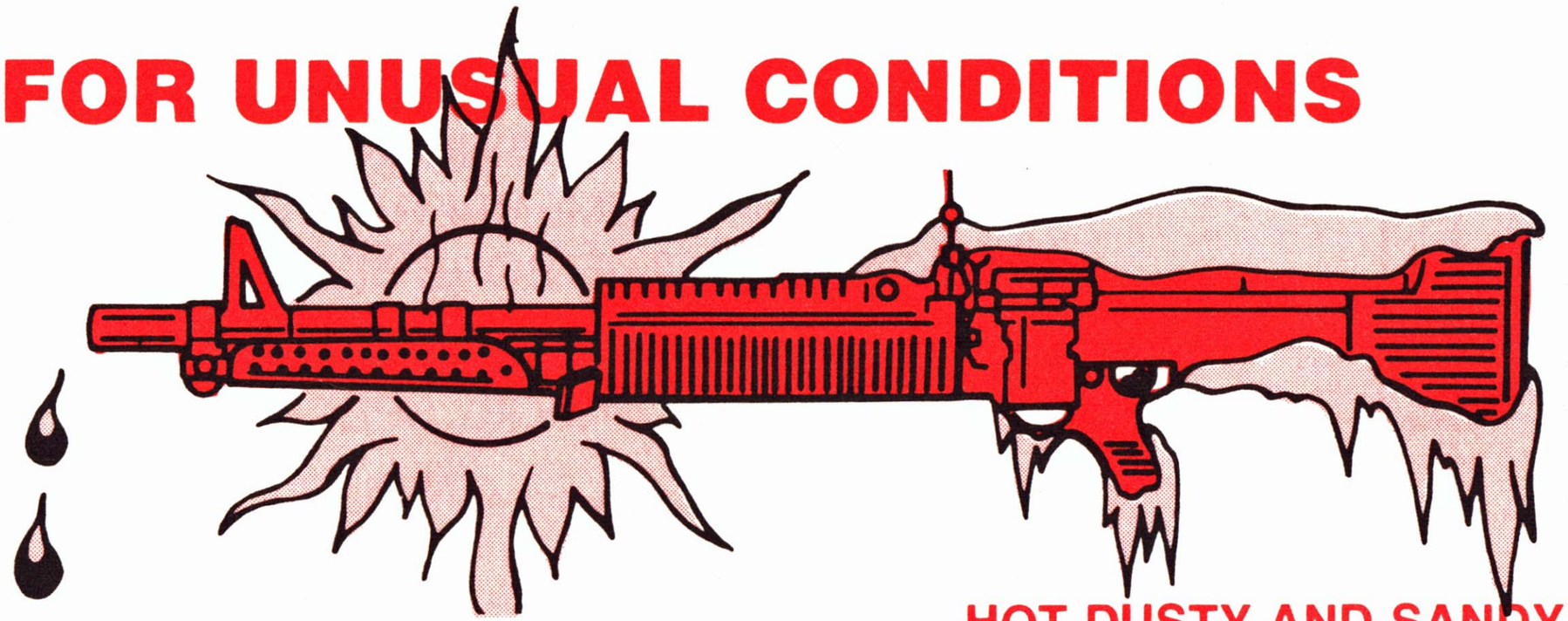
CLEAN ALL AREAS HAVING CORROSION, DIRT
INSPECT FOR BURRED, CRACKED, MISSING, OR LOOSE PARTS
FIT OF TRAY ON RECEIVER
PROPER FUNCTIONING OF FEED PAWL
OBSTRUCTION ON HANGER.

NOTE

REMOVE OIL FROM TOP SURFACE OF FEED TRAY IF GUN IS TO BE FIRED



PM FOR UNUSUAL CONDITIONS



AFTER FIRING BLANK AMMO

CLEAN BARREL, CHAMBER AND BORE

EXTREMELY COLD CLIMATE

LUBE IN ACCORDANCE WITH LUBE CHART
KEEP FREE OF MOISTURE
USE OIL LIGHTLY

HOT CLIMATE, WET

MORE FREQUENT LUBE AND INSPECTION
USE LIGHT COAT
KEEP DRY

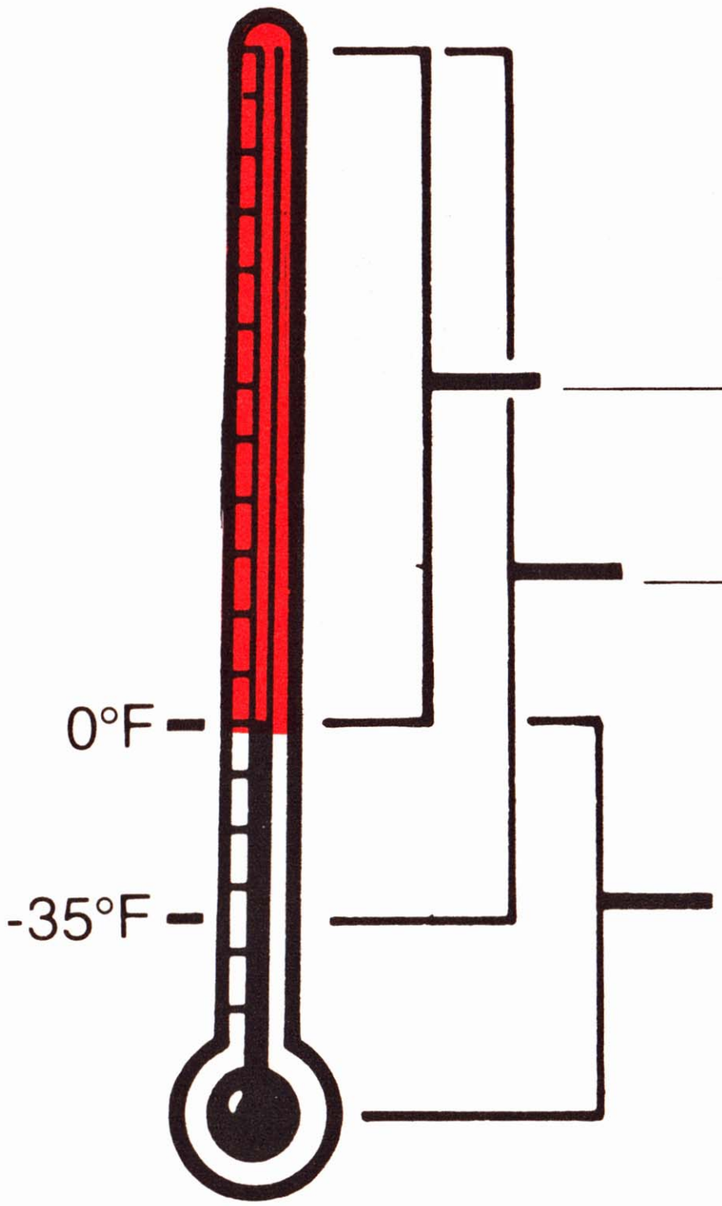
HOT DUSTY AND SANDY AREAS

INSPECT DAILY
CLEAN FREQUENTLY
WIPE LUBE FROM EXPOSED SURFACES
KEEP SAND OUT OF PARTS
COVER WEAPON AS MUCH AS POSSIBLE

AFTER EXPOSURE TO WATER

DISASSEMBLE, CLEAN, LUBE, AND ASSEMBLE ASAP
MAKE SURE IT'S DRY BEFORE LUBRICATING

LUBE GUIDE



UNDER ALL BUT THE COLDEST ARCTIC CONDITIONS, LSA IS THE LUBRICANT TO USE ON YOUR MACHINE GUN. REMEMBER TO REMOVE EXCESSIVE OIL FROM THE BORE BEFORE FIRING

PL-S - LUBRICATING OIL, SPECIAL

ABOVE 0° EITHER LSA OR PL-S

LSA - LUBRICATING OIL, SEMIFLUID WEAPONS

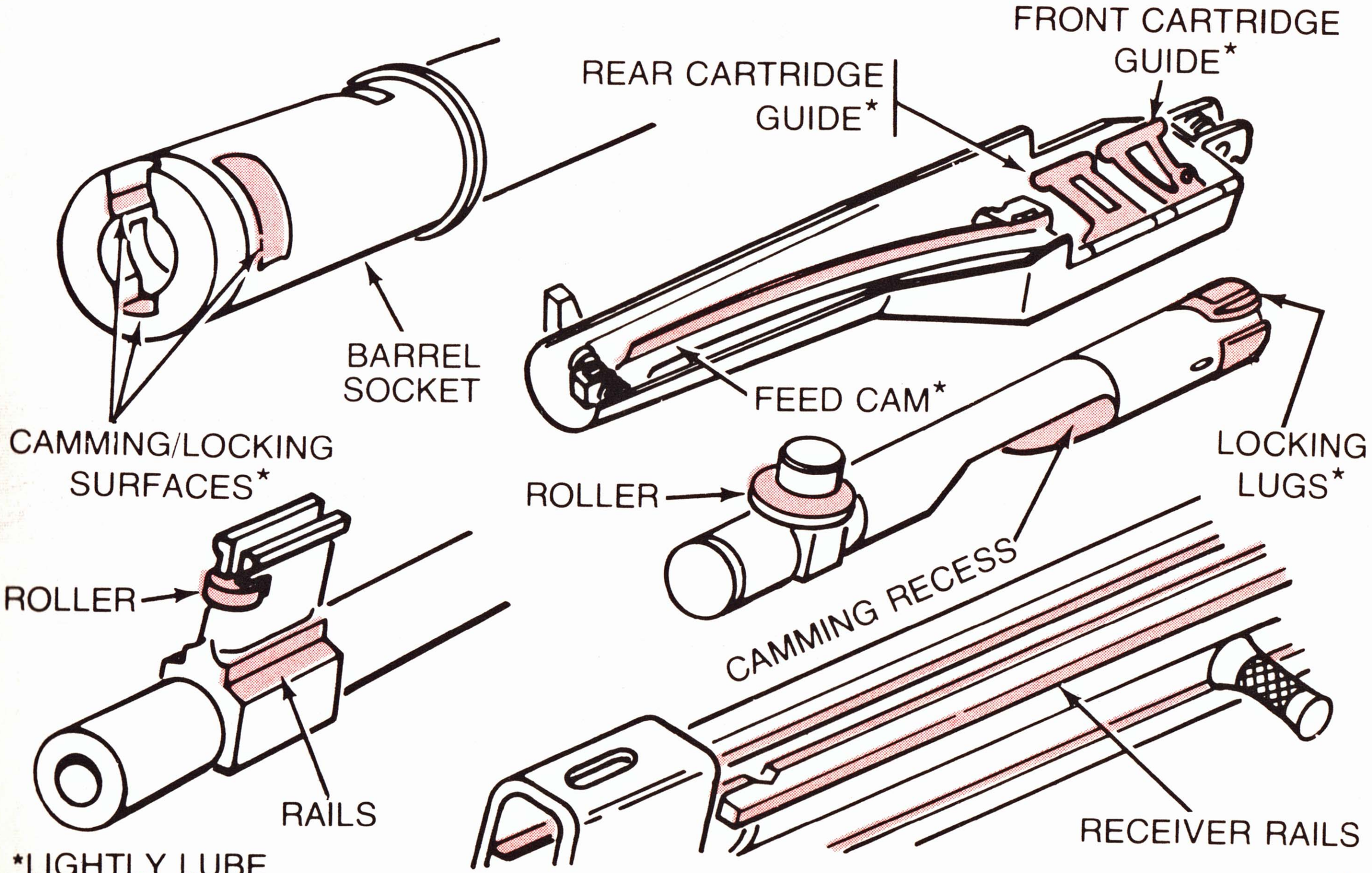
BETWEEN 0°F AND −35°F EITHER LSA OR LAW

LAW - LUBRICATING OIL, WEAPONS

LIGHTLY LUBE - A FILM OF OIL BARELY VISIBLE TO THE EYE

GENEROUSLY LUBE - HEAVY ENOUGH SO THAT IT CAN BE SPREAD WITH THE FINGER

LSA IS ALWAYS USED IN THESE AREAS



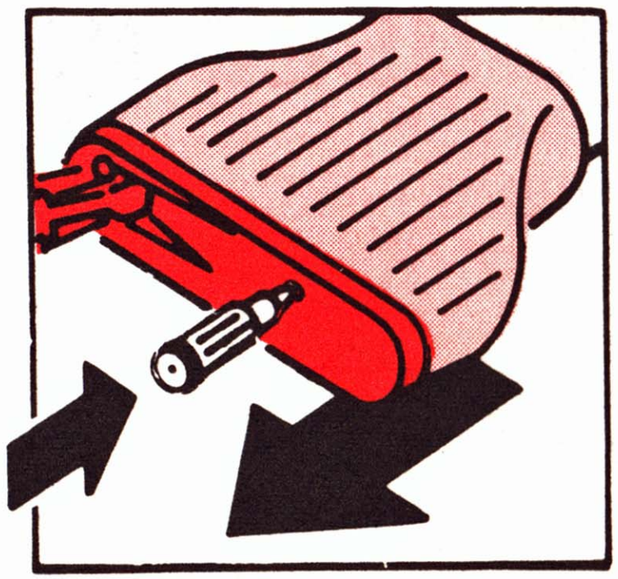
*LIGHTLY LUBE

GENERAL DISASSEMBLY

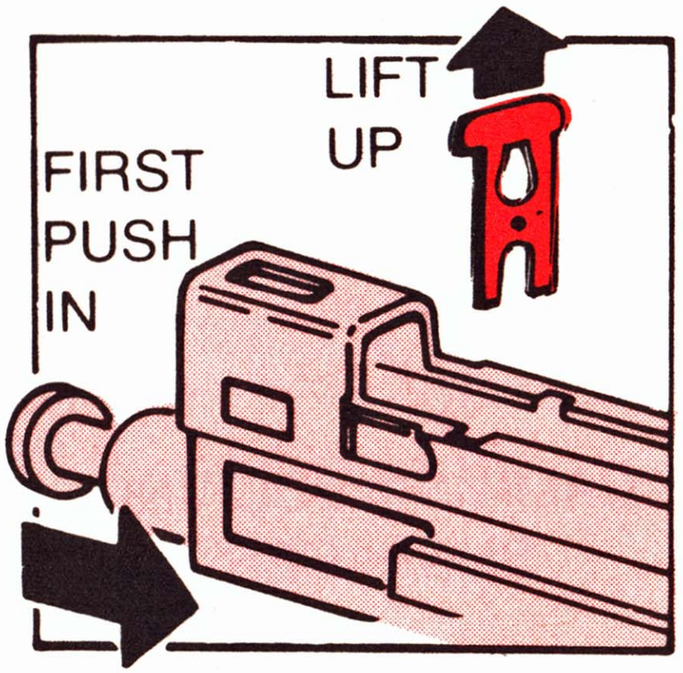
(FIELD STRIP)

CLEAR WEAPON

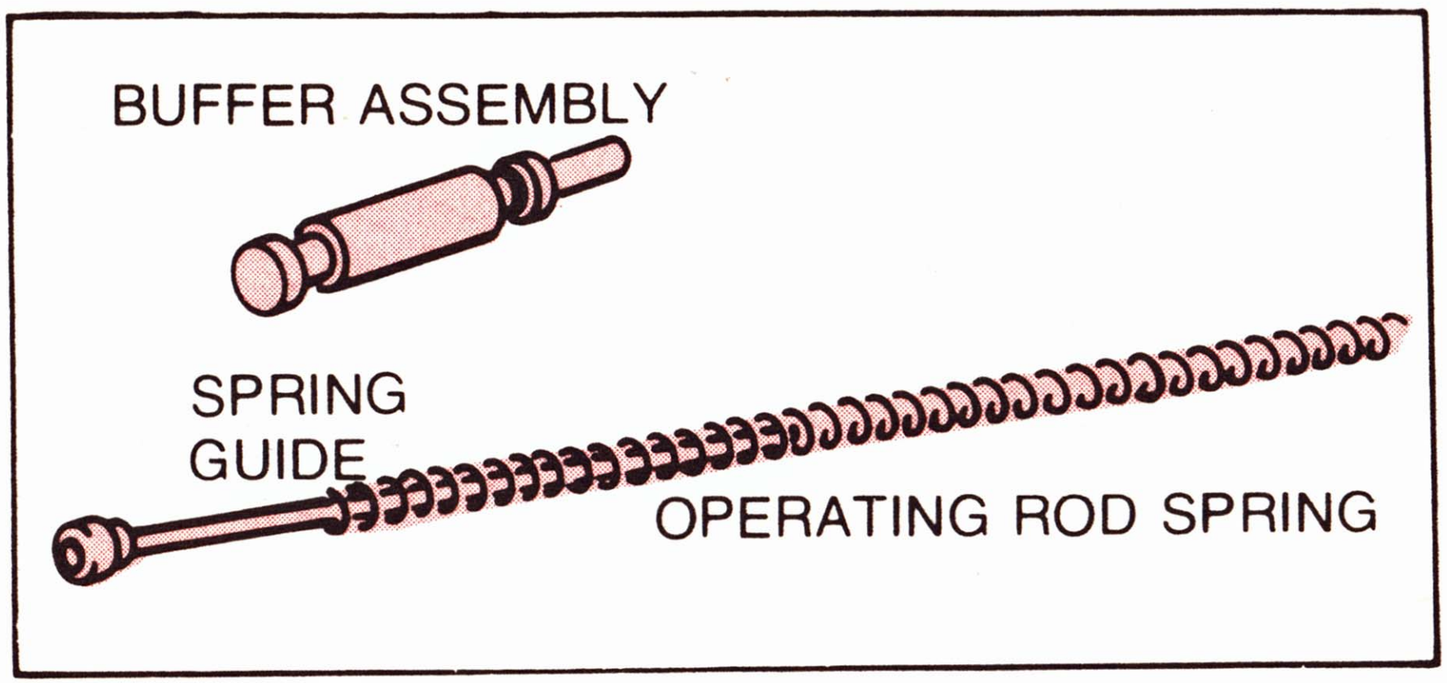
BOLT IN FORWARD POSITION



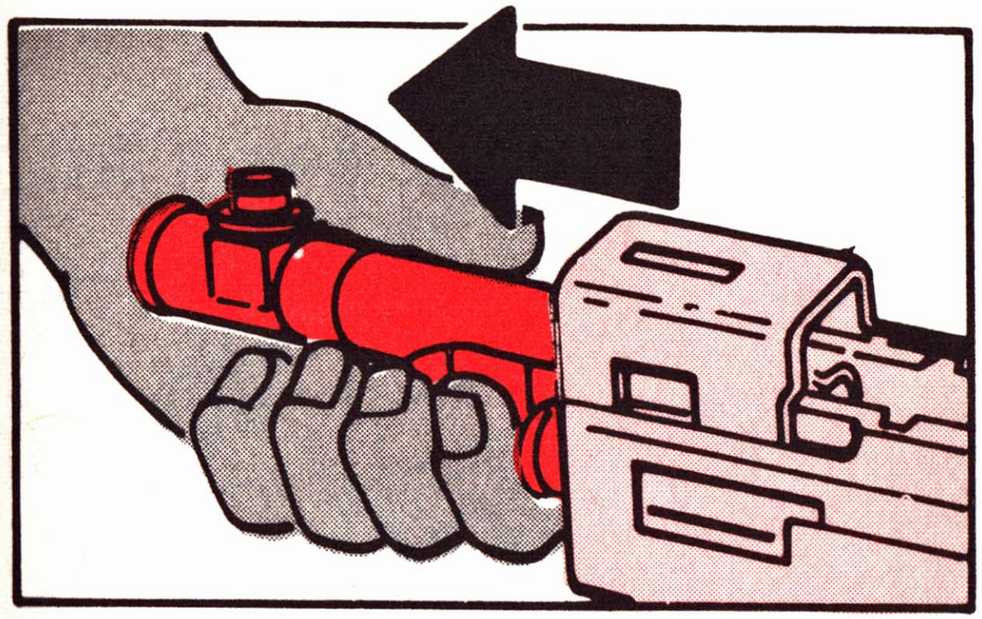
1 LIFT SHOULDER REST AND REMOVE STOCK ASSEMBLY



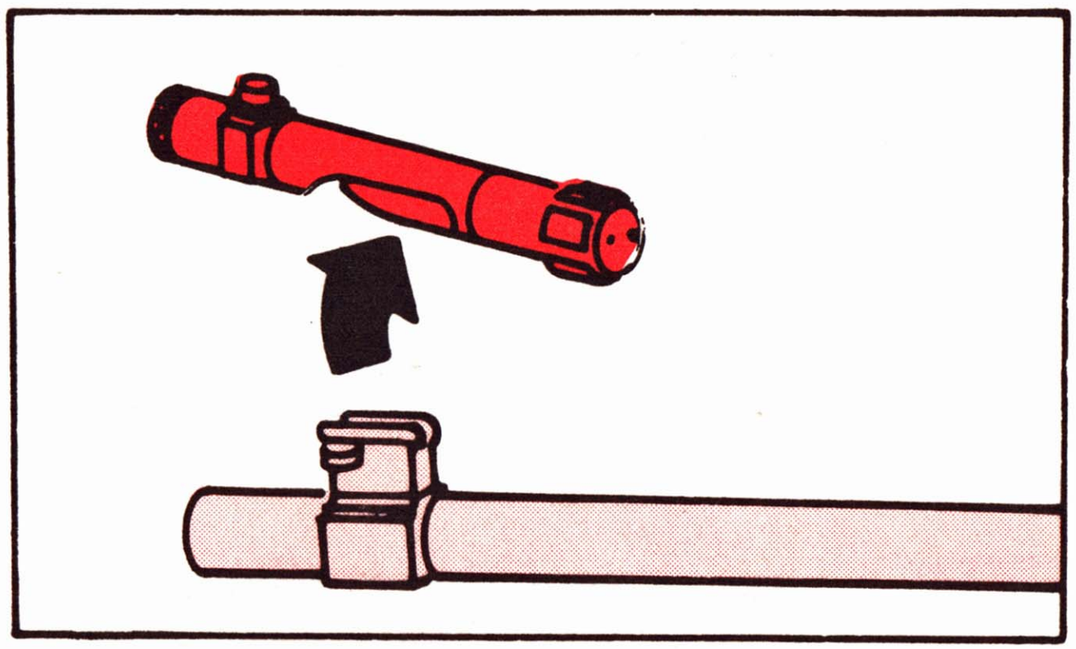
2 LIFT OUT YOKE



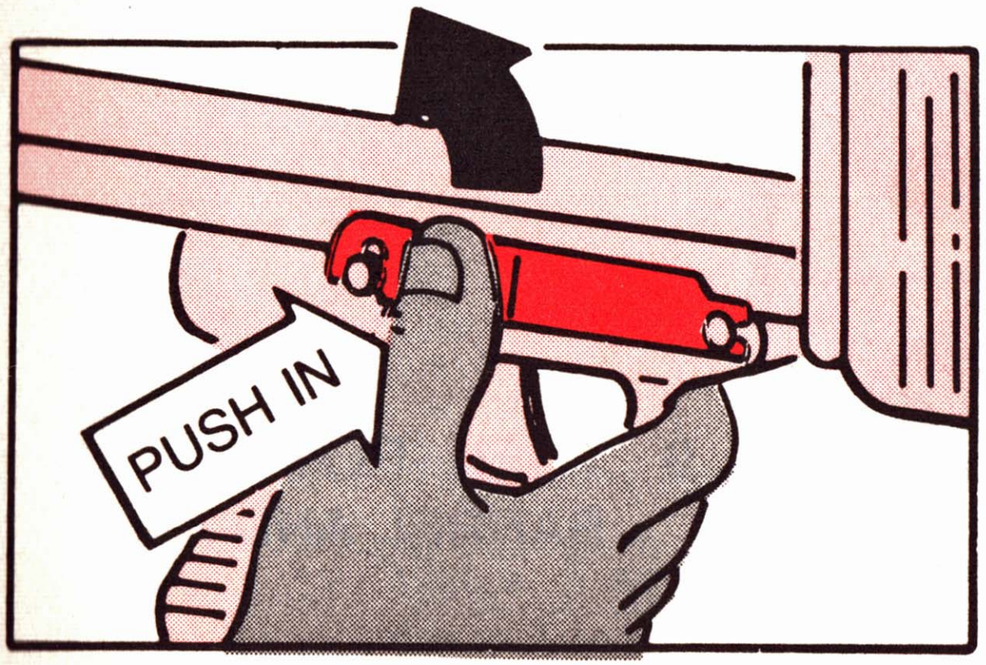
3 REMOVE BUFFER ASSEMBLY, SPRING GUIDE AND OPERATING ROD SPRING



4 REMOVE BOLT AND OPERATING ROD BY SLOWLY PULLING COCKING HANDLE REARWARD. RETURN COCKING HANDLE FORWARD

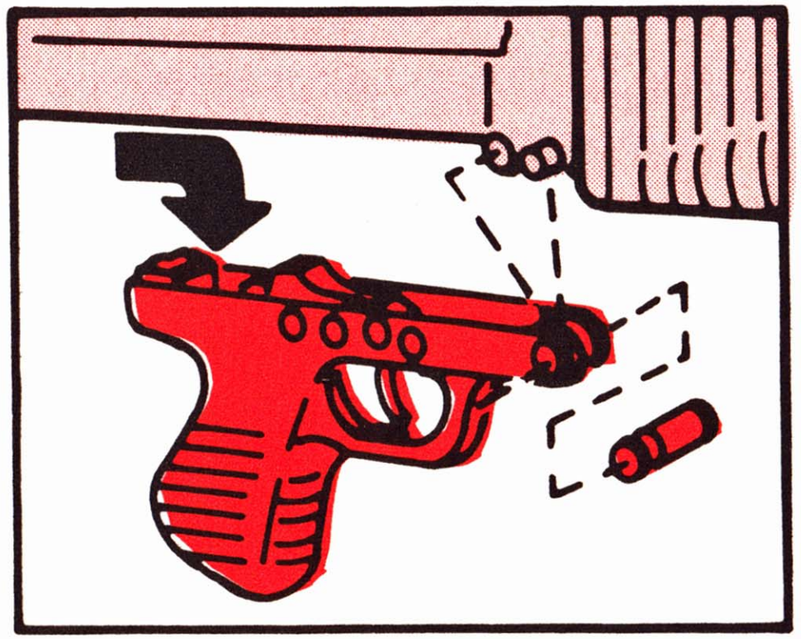


5 SEPARATE BOLT AND OPERATING ROD ASSEMBLIES

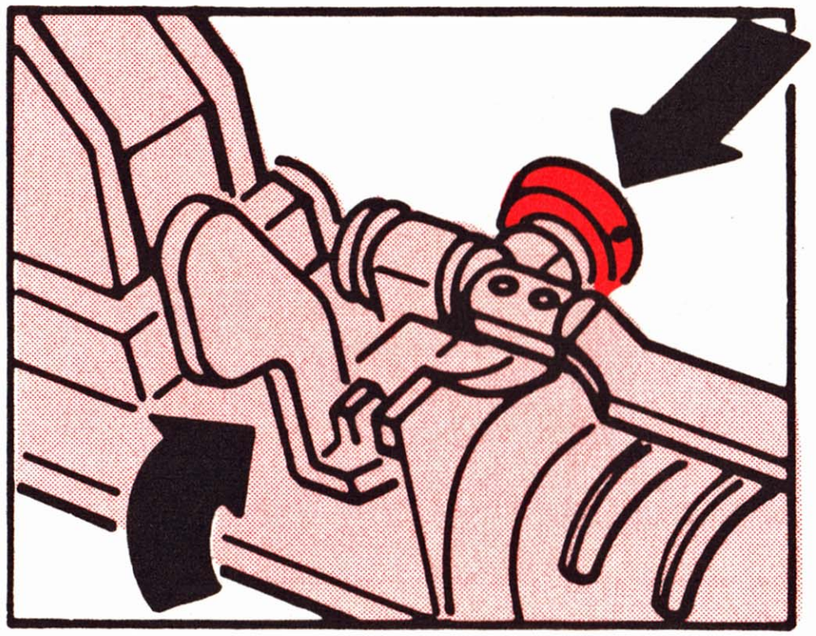


6 REMOVE FLAT LEAF SPRING

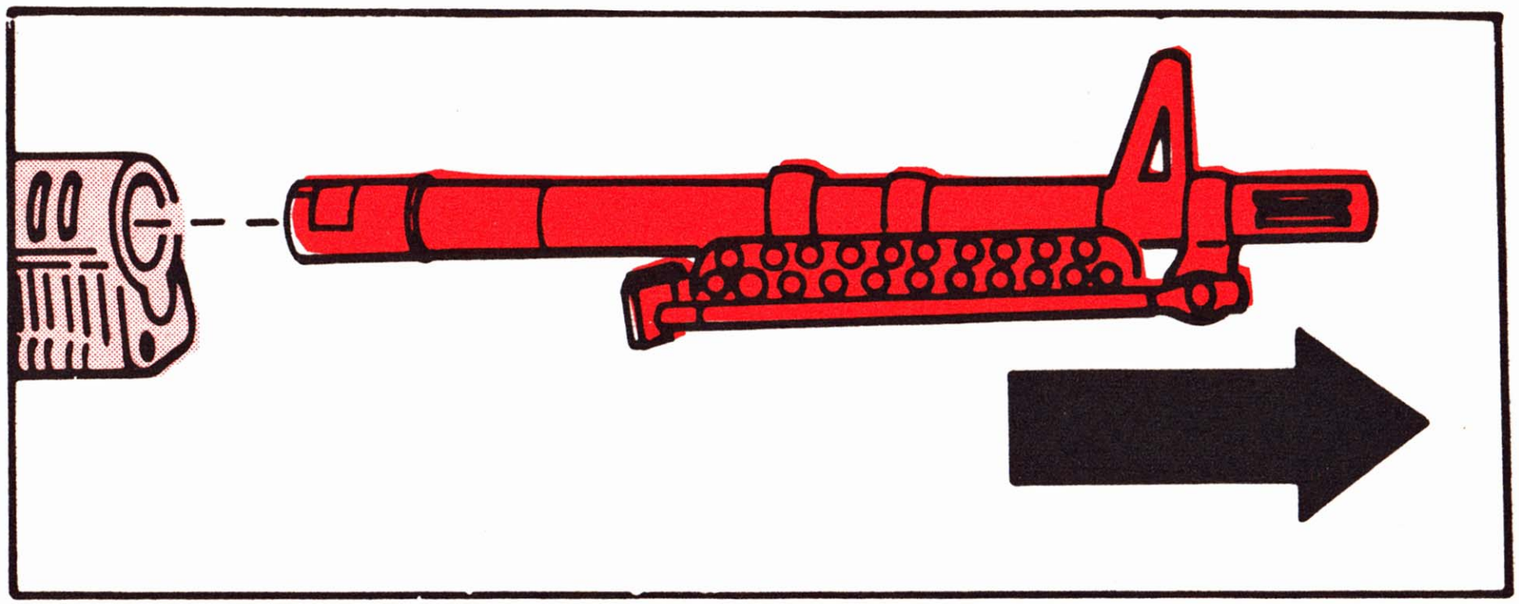
GENERAL DISASSEMBLY - Continued



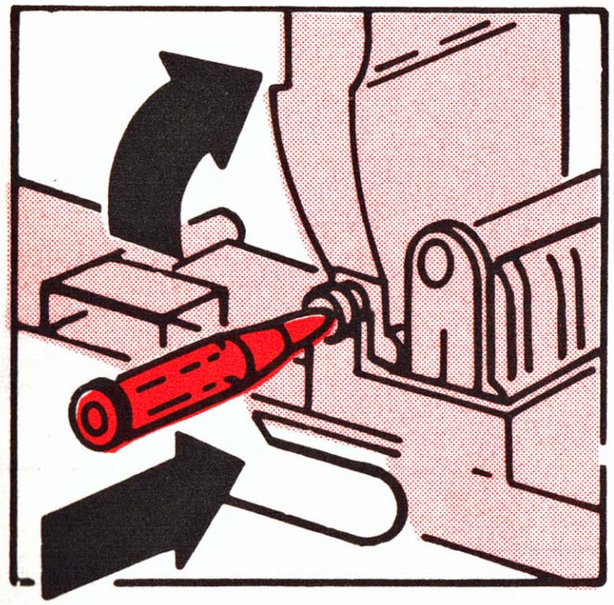
7 REMOVE TRIGGER GROUP



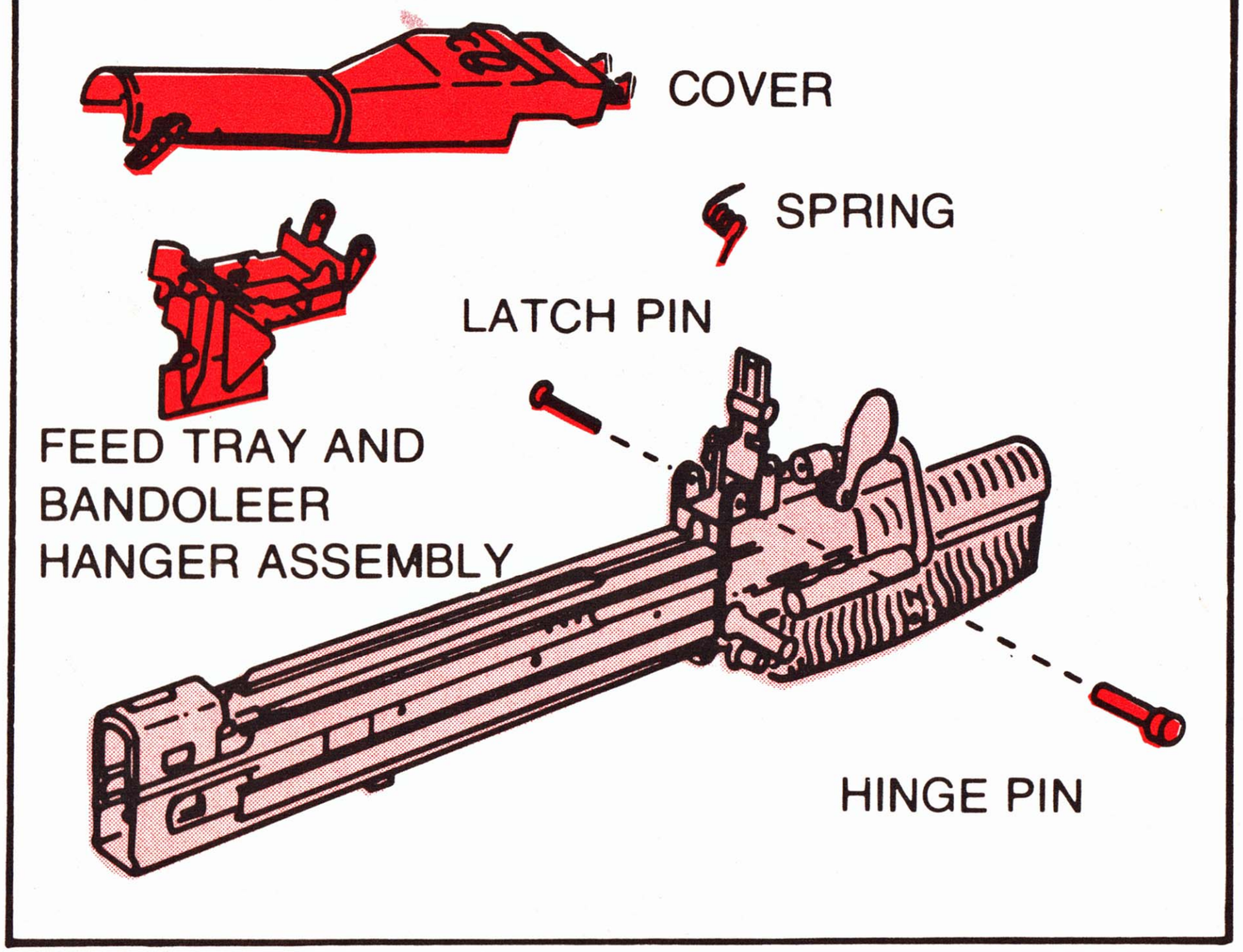
8 FIRST PUSH SPRING DETENT. SECOND RAISE BARREL LATCH



9 THEN--REMOVE BARREL AND.....

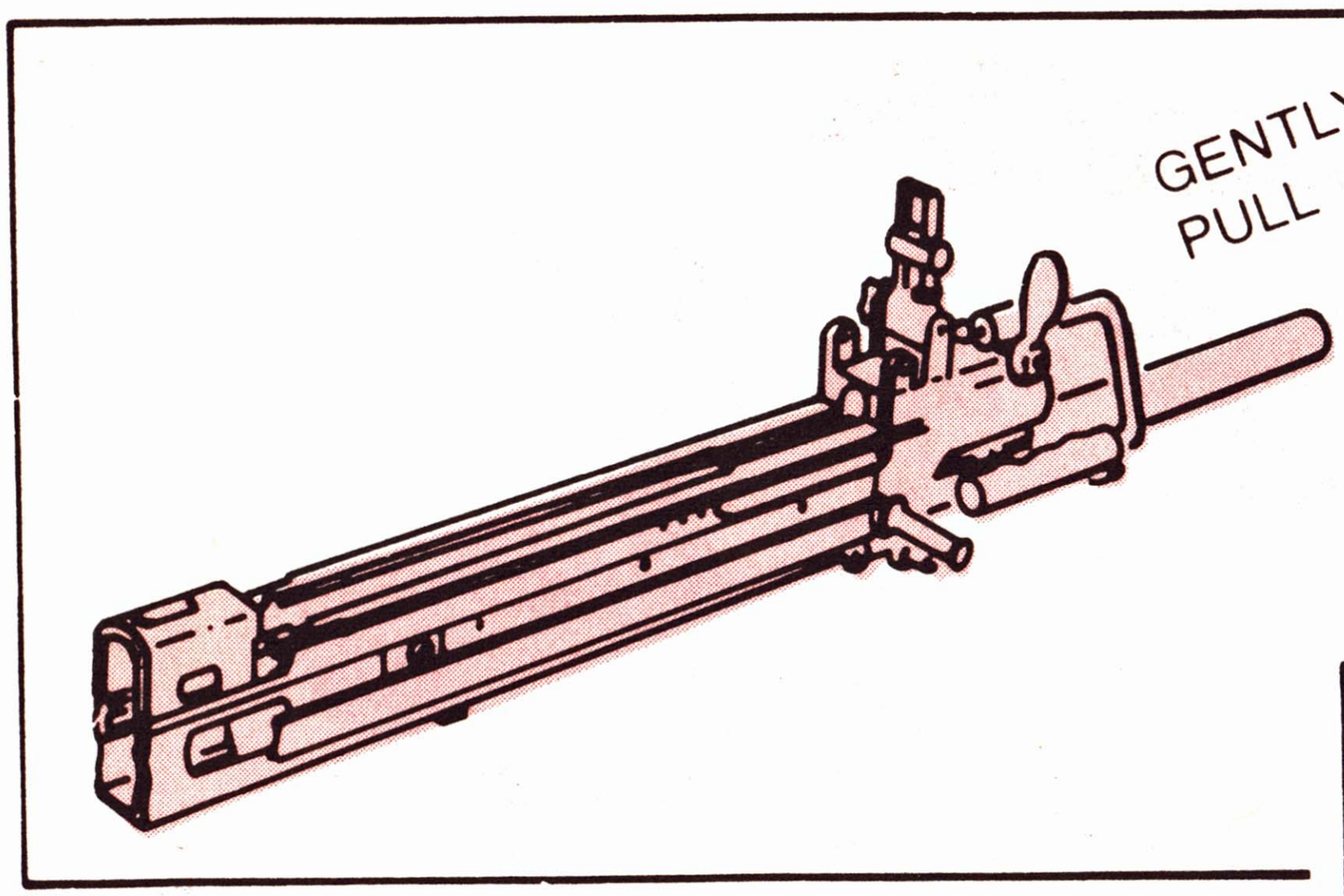


10 PRY ON LATCH PIN
AND PUSH



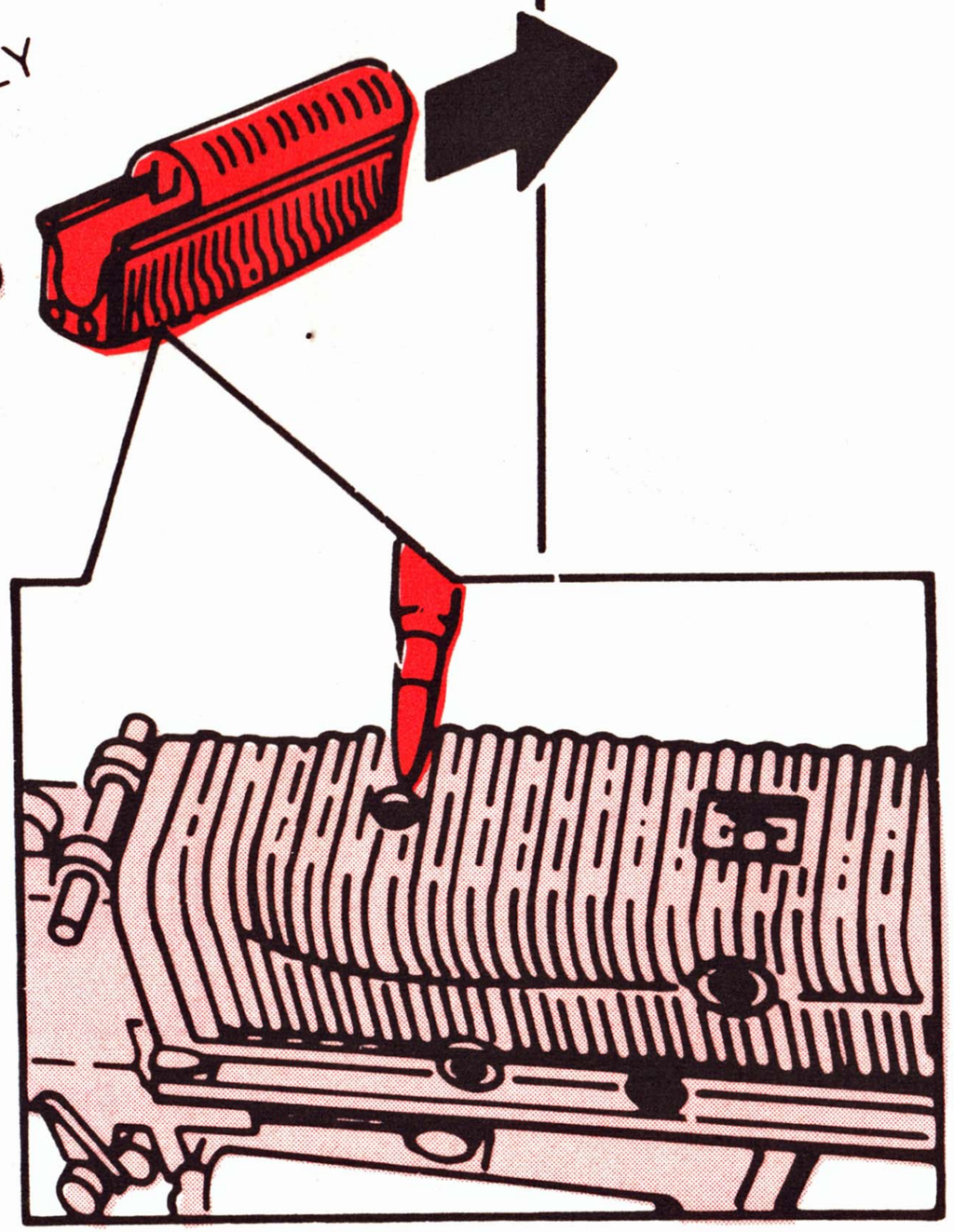
11 REMOVE HINGE PIN,COVER, FEED
TRAY AND BANDOLEER HANGER
ASSEMBLY

GENERAL DISASSEMBLY - Continued



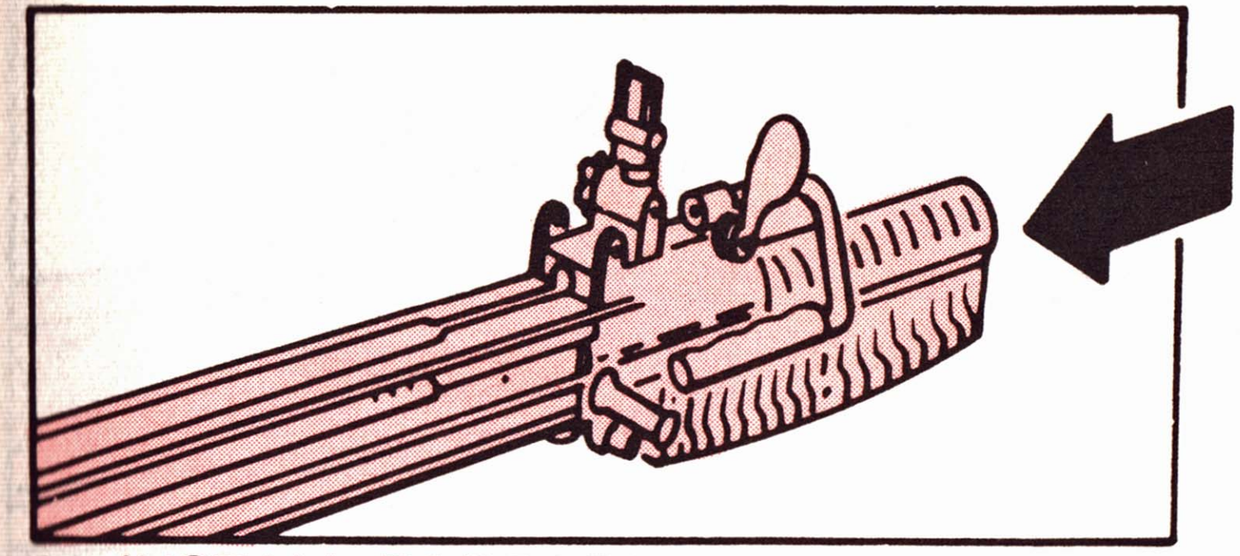
12 REMOVE FOREARM ASSEMBLY

PUSH IN ON SPRING IN BOTTOM OF FOREARM WITH DUMMY CARTRIDGE OR COMBINATION WRENCH REAMER. LIFT UP.

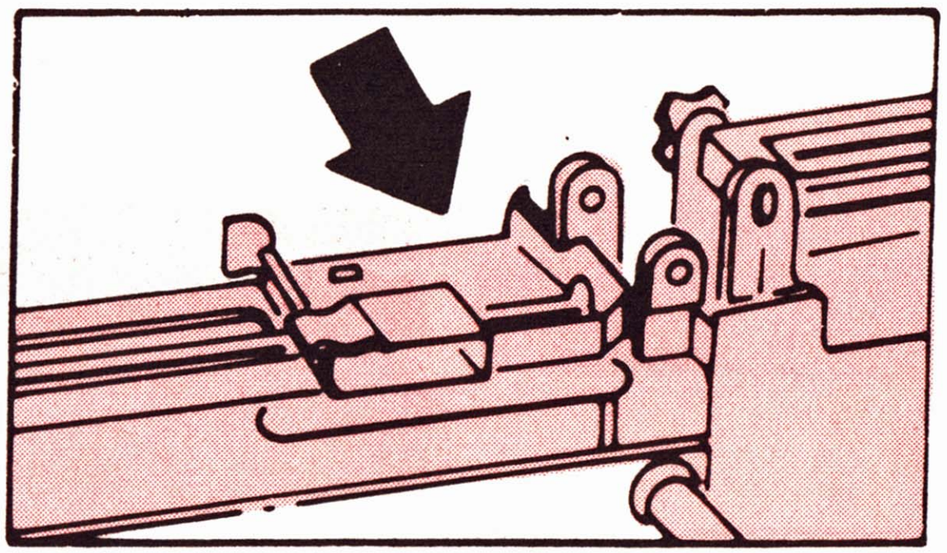


STOP

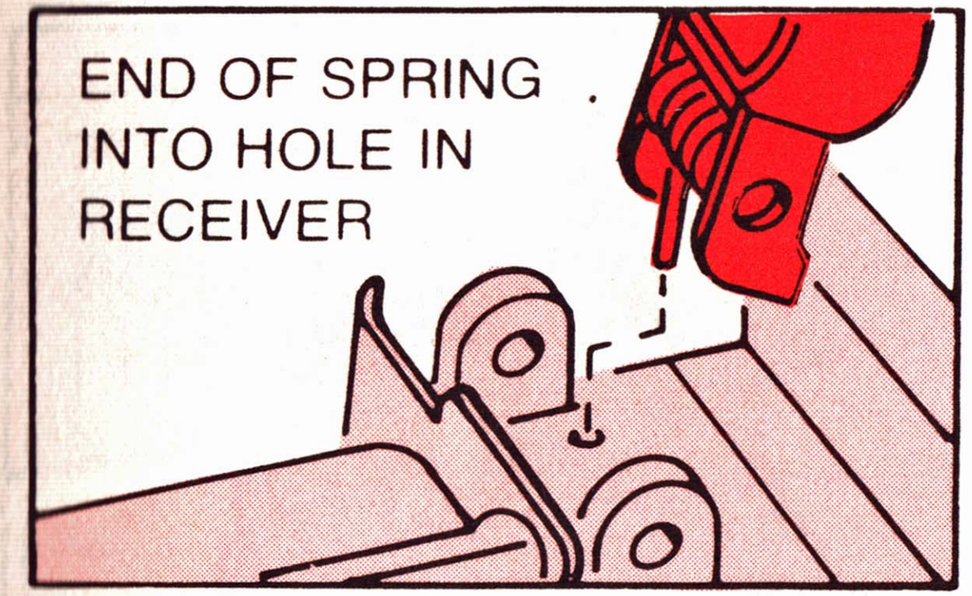
HOW TO PUT IT TOGETHER



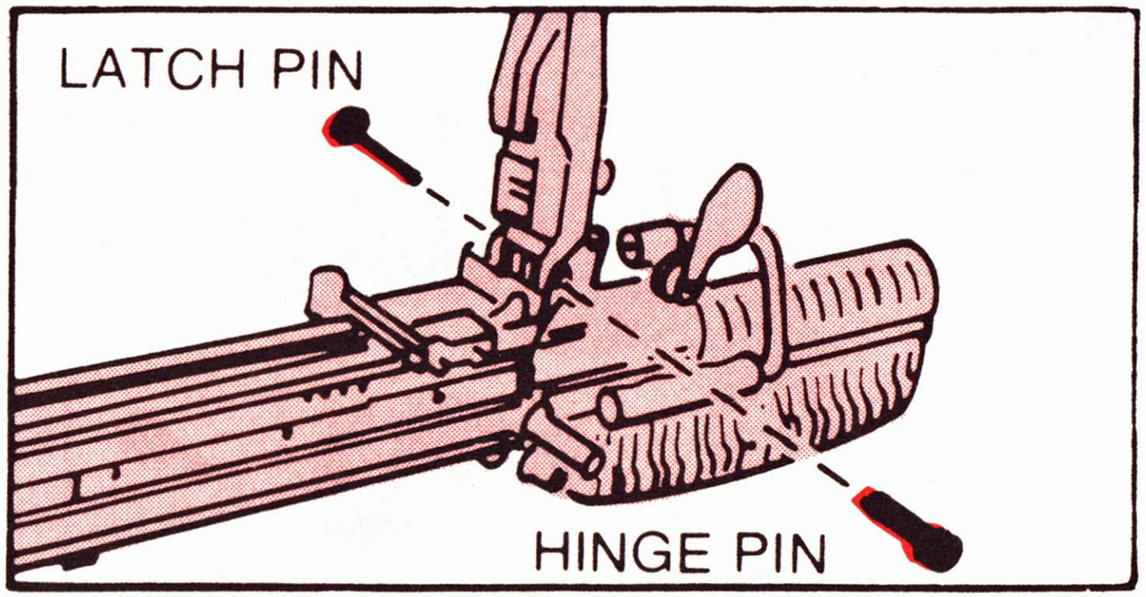
1 INSTALL FOREARM



2 POSITION FEED TRAY AND BANDOLEER HANGER

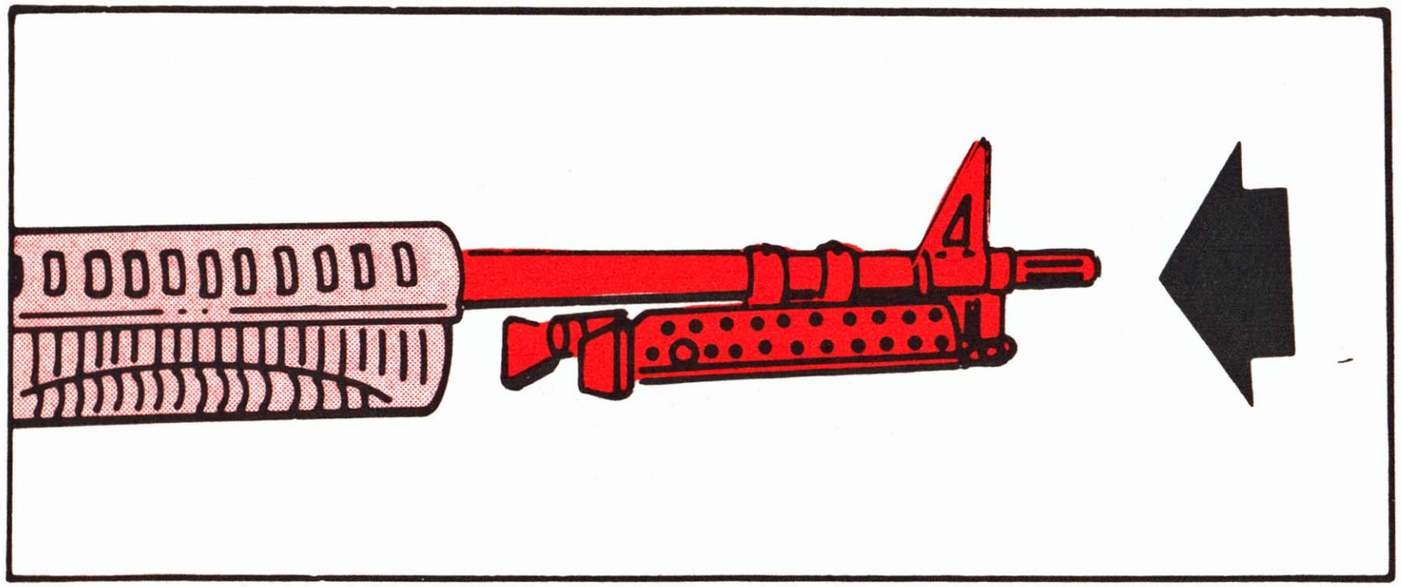


3 POSITION COVER

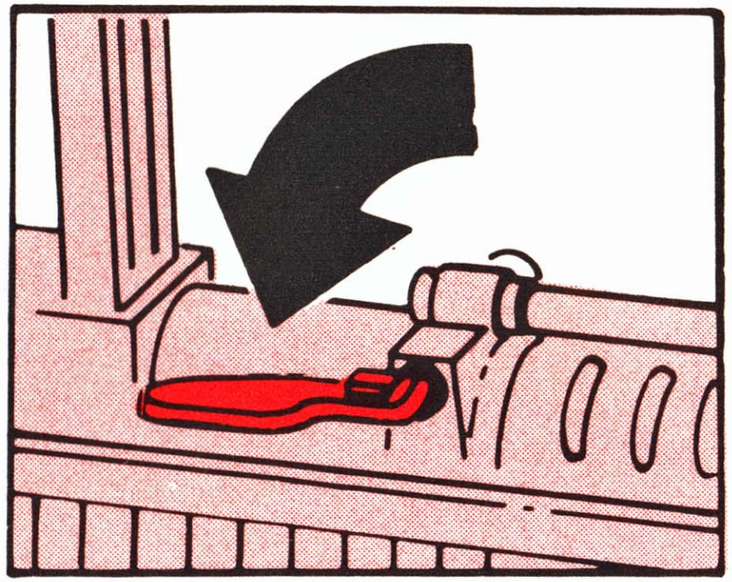


4 INSTALL HINGE PIN FIRST, THEN LATCH PIN

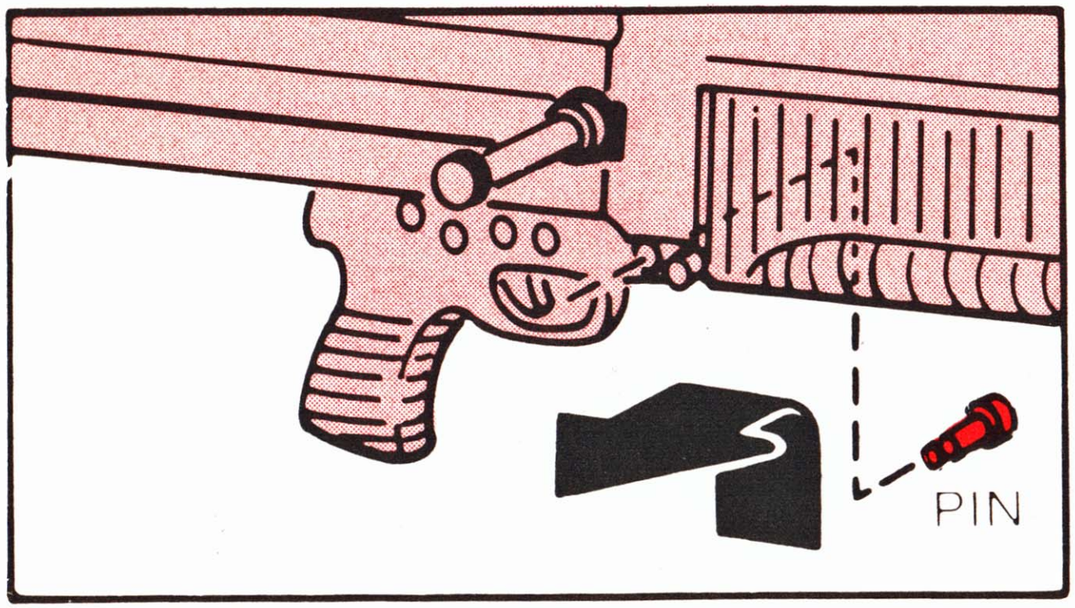
HOW TO PUT IT TOGETHER - Continued



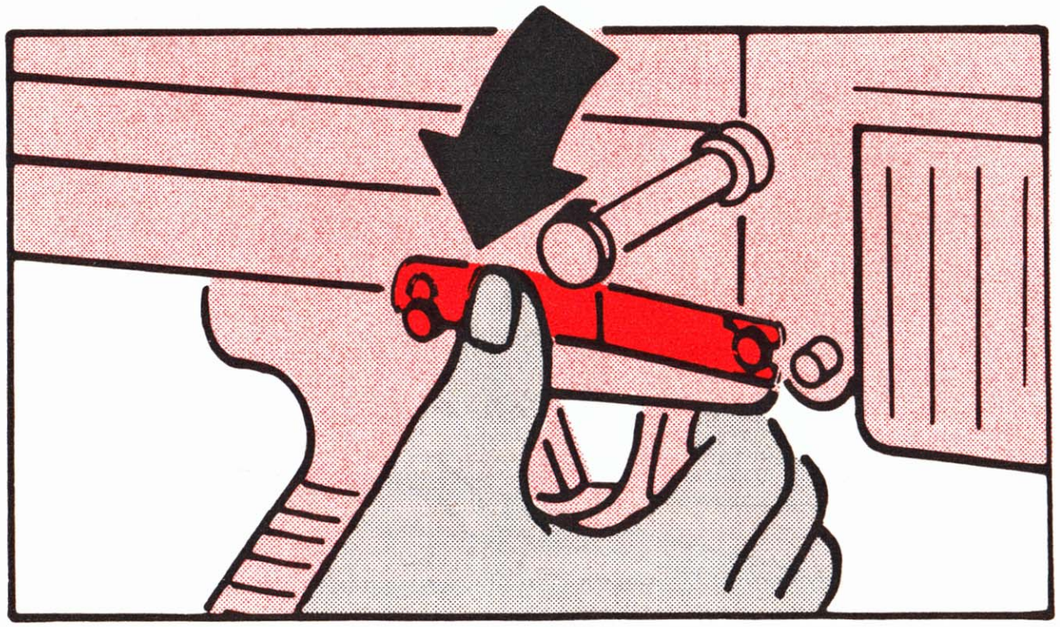
5 INSTALL BARREL WITH BIPOD ASSEMBLY



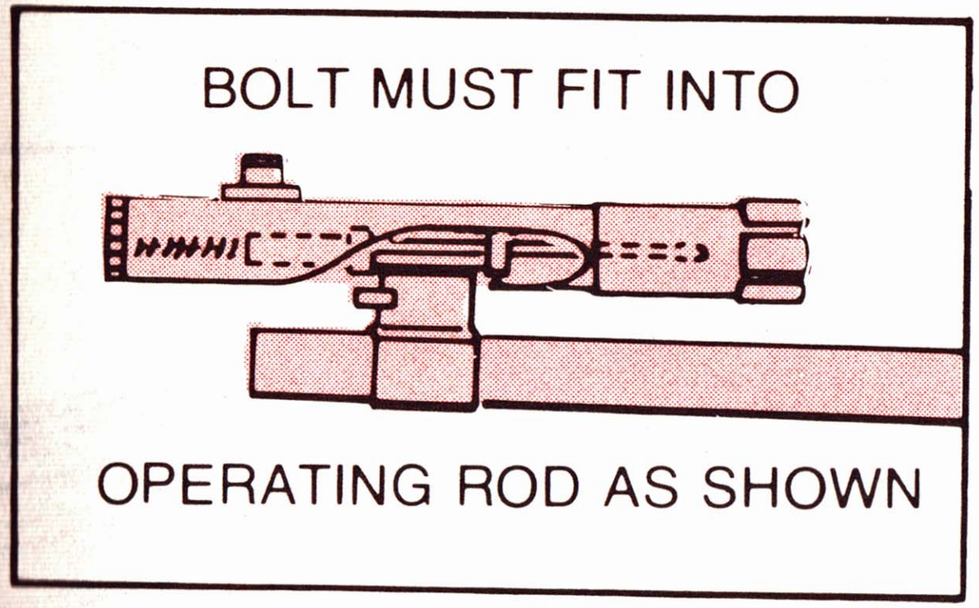
6 SECURE BARREL LOCKING LEVER



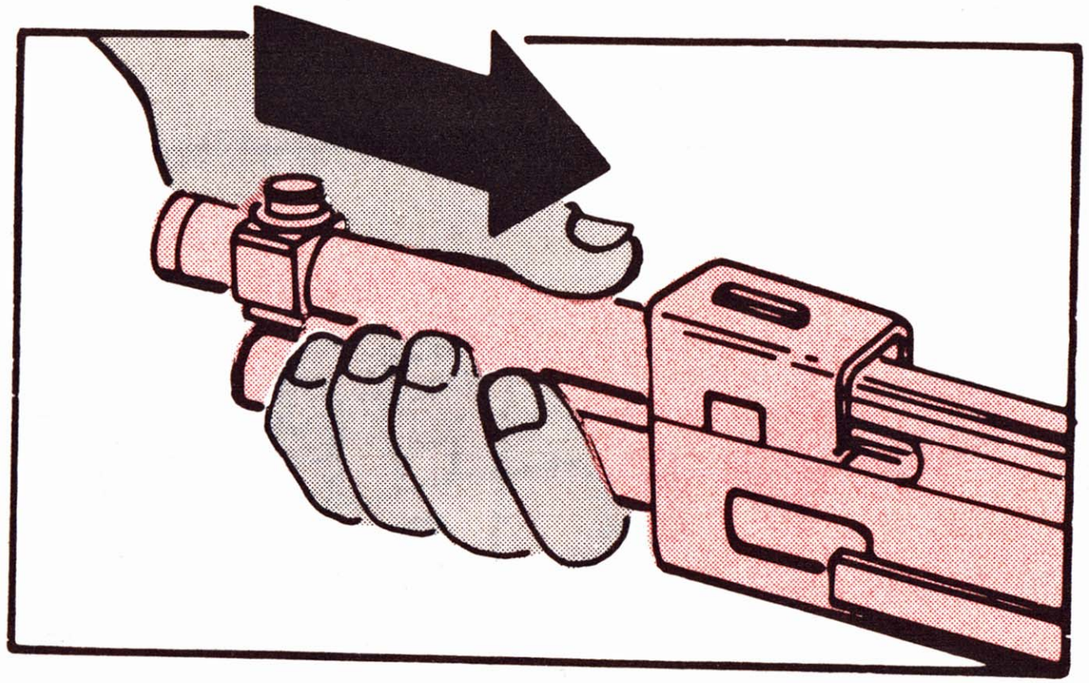
7 INSTALL TRIGGER GROUP



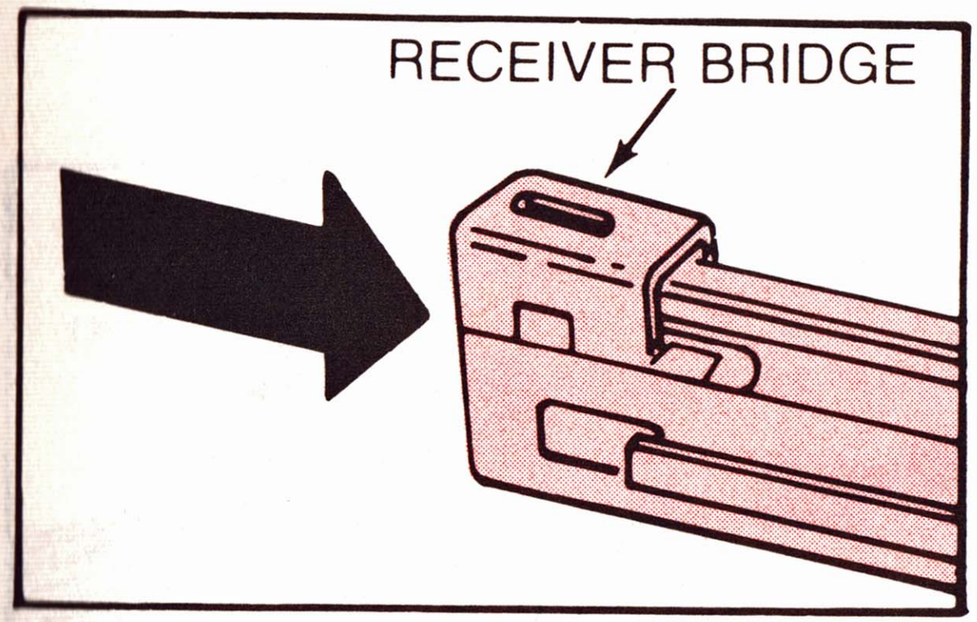
8 INSTALL LEAF SPRING



9 CONNECT BOLT TO OPERATING ROD



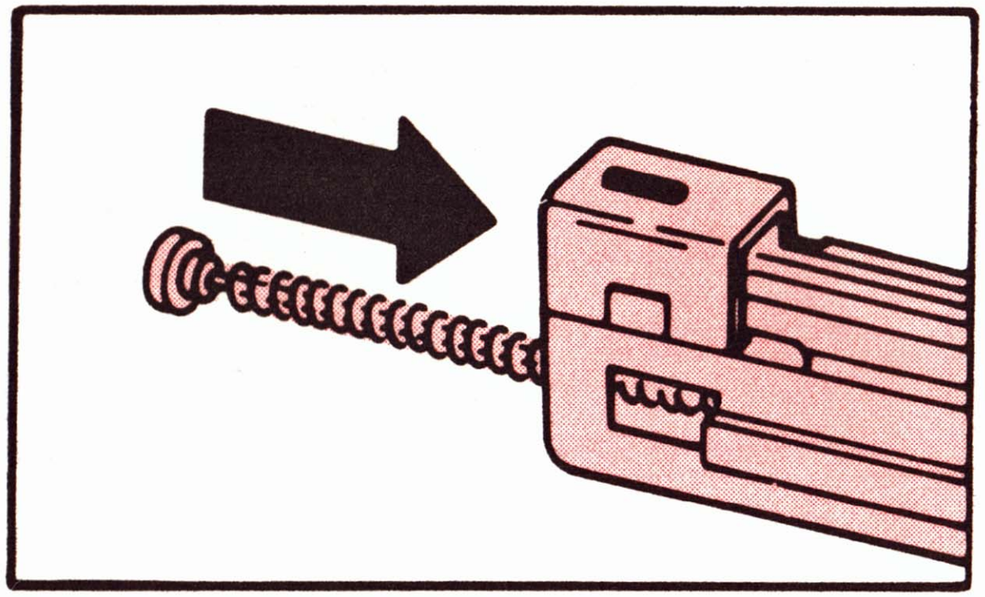
10 INSTALL IN RECEIVER

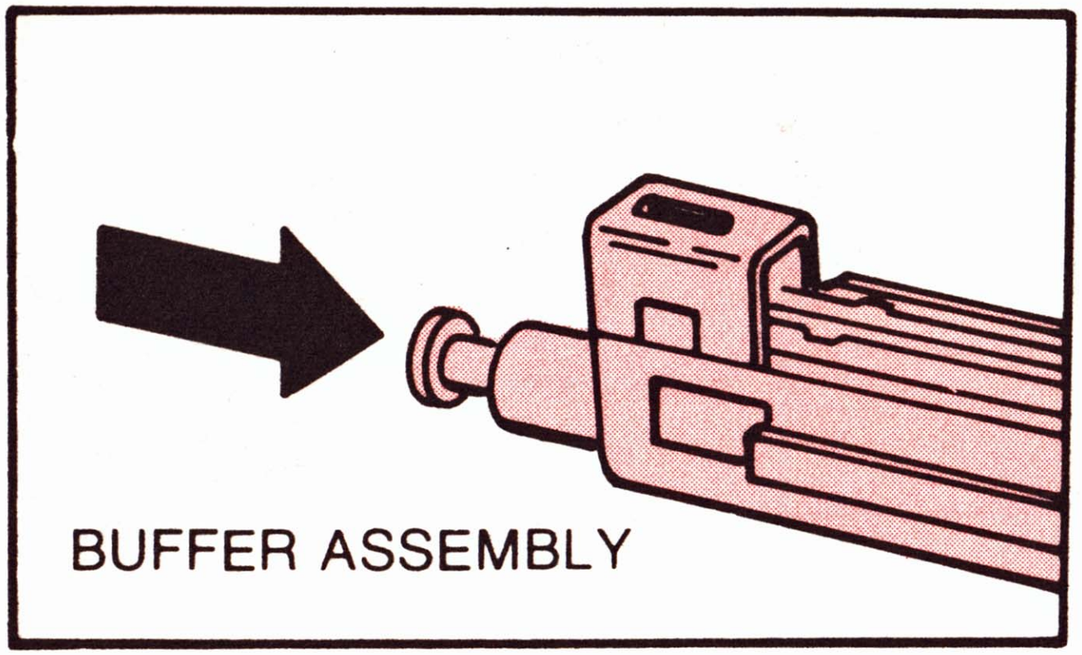


11 PUSH IN AS FAR AS IT WILL GO

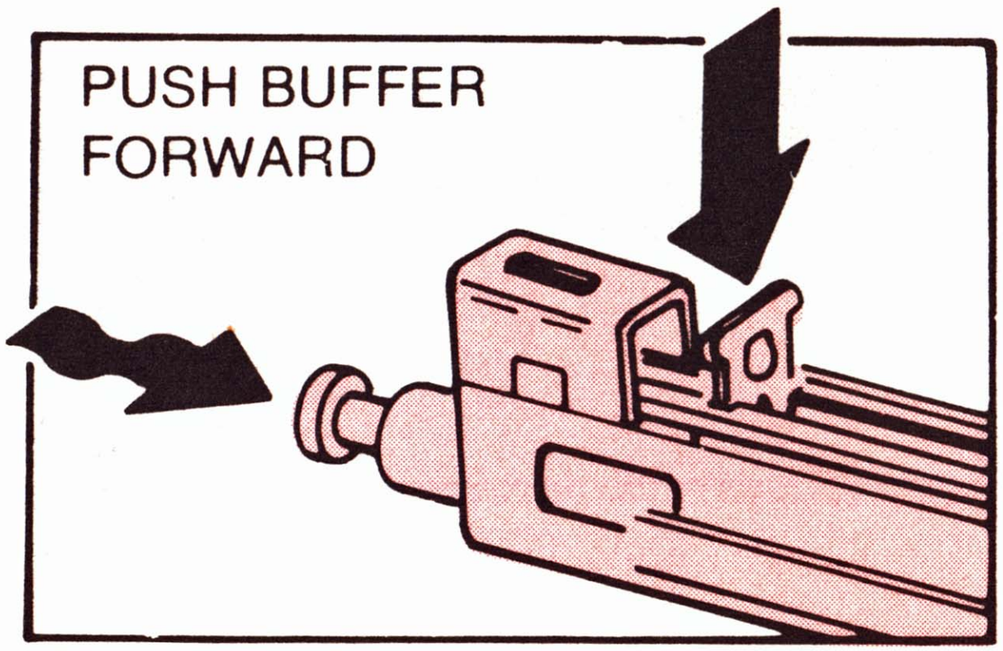
HOW TO PUT IT TOGETHER - Continued

12 INSTALL OPERATING SPRING AND GUIDE. PULL TRIGGER AND PUSH IN OPERATING ROD GUIDE AS FAR AS IT WILL GO





13 INSTALL BUFFER PLUNGER INTO REAR OF OPERATING ROD GUIDE

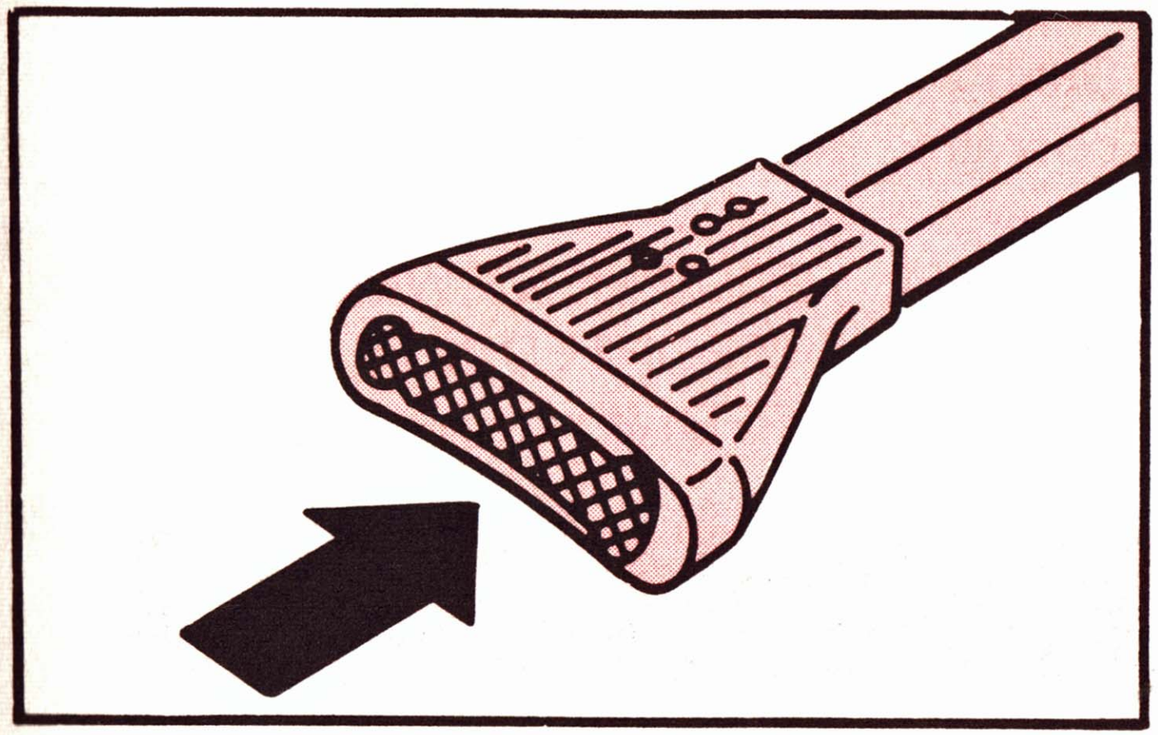


NOTE

MAKE SURE YOKE IS SEATED AND RETAINS BUFFER

14 INSTALL YOKE

15 INSTALL STOCK ASSEMBLY



PLACE SAFETY TO 'F'

PULL COCKING HANDLE REARWARD

PLACE SAFETY TO 'S'

RETURN COCKING HANDLE FORWARD

CLOSE COVER

PLACE SAFETY TO 'F'

NOTE

'S' SAFETY HAS NO FUNCTION WHEN BOLT IS IN FORWARD POSITION

PULL COCKING HANDLE REARWARD

PULL TRIGGER AND EASE BOLT FORWARD

LEAVE SAFETY TO 'F'

IT'S ALL BACK TOGETHER - NOW TAKE CARE OF IT

OPERATOR/CREW PMCS

B - Before D - During A - After

Perform before operations PMCS if you are operating the item for the first time.

ITEM NO.	INTERVAL B	D	A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
				WARNING Before starting inspection, be sure to clear weapon	
1	●			M60 MACHINE GUN TOOLS AND EQUIPMENT Visually check for missing or damaged tools and equipment.	

ITEM NO.	INTERVAL B	D	A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
2	●			BARREL ASSEMBLY Tilt weapon end to end to insure gas piston slides freely (a clicking sound will be heard as the piston slides in the cylinder). Run a dry swab through the bore to remove excess oil or possible obstruction.	Gas piston will not slide. Obstruction in barrel.

OPERATOR/CREW PMCS - Continued

B - Before D - During A - After

Perform before operations PMCS if you are operating the item for the first time.

ITEM NO.	INTERVAL B	D	A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
3	●			TRIGGER GROUP ASSEMBLY Check safety in "S" position. Pull bolt to the rear—place safety in "S" position and squeeze the trigger. Insure flat leaf spring is in place.	
4	●				**Weapon functions when safety is in the "S" position.**
				COVER ASSEMBLY Lightly lubricate all moving parts prior to using.	

ITEM NO.	INTERVAL B	D	A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
5	●			RECEIVER GROUP Check for free movement of cocking handle. Check barrel lock lever and lock for retention of barrel.	Cocking handle binding or barrel loose.

OPERATOR/CREW PMCS - Continued

B - Before D - During A - After

Perform before operations PMCS if you are operating the item for the first time.

ITEM NO.	INTERVAL B	INTERVAL D	INTERVAL A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
6		•		M60 MACHINE GUN Erratic or sluggish firing (indicating carbon build-up) may require field stripping the weapon and performing the necessary maintenance to complete the fire mission.	The weapon ceases to operate.

ITEM NO.	INTERVAL B	INTERVAL D	INTERVAL A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
7			•	M60 MACHINE GUN Field strip, clean, inspect and lubricate complete weapon.	
8			•	M60 MACHINE GUN (INSPECTION) Inspect operating rod assembly and barrel assembly for burrs, cracks, and chips. Insure the gas piston slides back and forth freely. Inspect component of trigger group assembly for wear. Check safety in "F" position, sear should move slightly. Inspect bolt group for defects - e.g. cracks or chips. Reassemble weapon and check for proper function.	Fails to function properly or has damaged or missing parts.

OPERATOR/CREW PMCS - Continued

B - Before D - During A - After

Perform before operations PMCS if you are operating the item for the first time.

ITEM NO.	INTERVAL B	INTERVAL D	INTERVAL A	ITEM TO BE INSPECTED PROCEDURE	EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
9			●	TRIPOD MOUNT M122 Clean and lubricate tripod, elevating and traversing mechanism, and pintle assembly.	
10			●	TRIPOD MOUNT M122 Inspect traversing bar for tightness when legs are extended. Be sure sleeve latch operates freely. Be sure traversing hand-wheels operate freely. Be sure all scale readings are legible and zero indexes line up.	

FUNCTIONAL CHECK

1 PLACE SAFETY TO 'F'

2 PULL COCKING HANDLE TO THE REAR, LOCKING BOLT AND RETURN HANDLE FORWARD

CAUTION

ALWAYS EASE BOLT FORWARD WHEN THE WEAPON IS CLEAR OF AMMO (BARREL MUST BE INSTALLED FOR FUNCTIONAL CHECK)

3 PLACE SAFETY TO 'S'

4 RAISE COVER; LOAD FEED TRAY WITH LINKED DUMMY AMMO BELT

5 CLOSE COVER

6 DEPRESS TRIGGER. NOTHING SHOULD HAPPEN

7 PLACE SAFETY TO 'F'

8 DEPRESS TRIGGER. BOLT SHOULD MOVE FORWARD, STRIP AND CHAMBER A DUMMY ROUND, AND LOCK

9 PULL COCKING HANDLE REARWARD. DUMMY ROUND SHOULD EJECT, AND BOLT SHOULD LOCK TO THE REAR

10 PLACE SAFETY TO 'S'

11 RETURN COCKING HANDLE FORWARD

12 OPEN COVER

13 UNLOAD DUMMY AMMO AND CLEAR YOUR WEAPON

14 CLOSE COVER

15 PLACE SAFETY TO 'F'

16 PULL COCKING HANDLE REARWARD AND HOLD, PULL TRIGGER AND EASE BOLT FORWARD

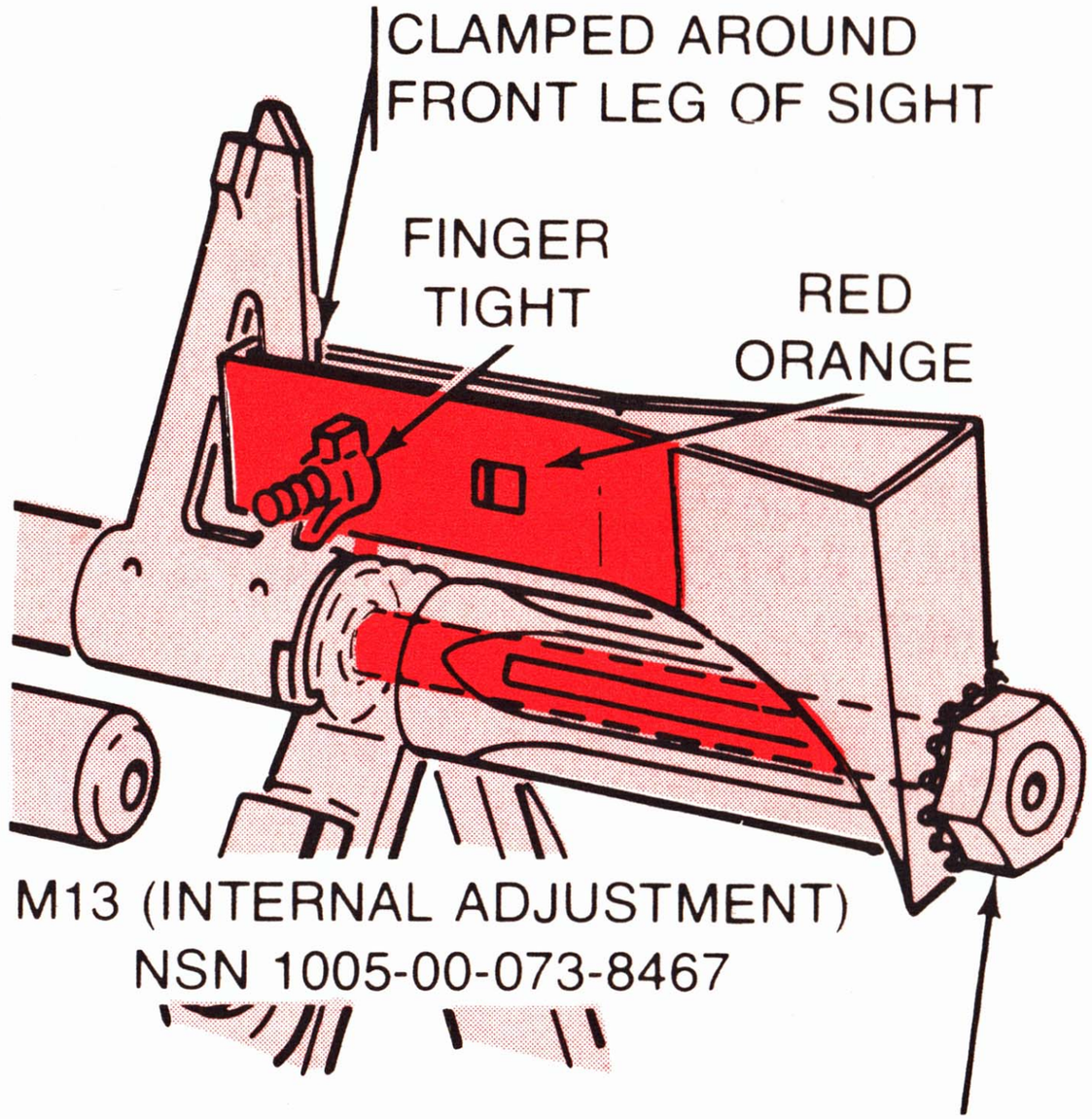
BLANK FIRING ATTACHMENT

WARNING

USE BLANK AMMO ONLY

SAFETY IN FIRING BLANK CARTRIDGES

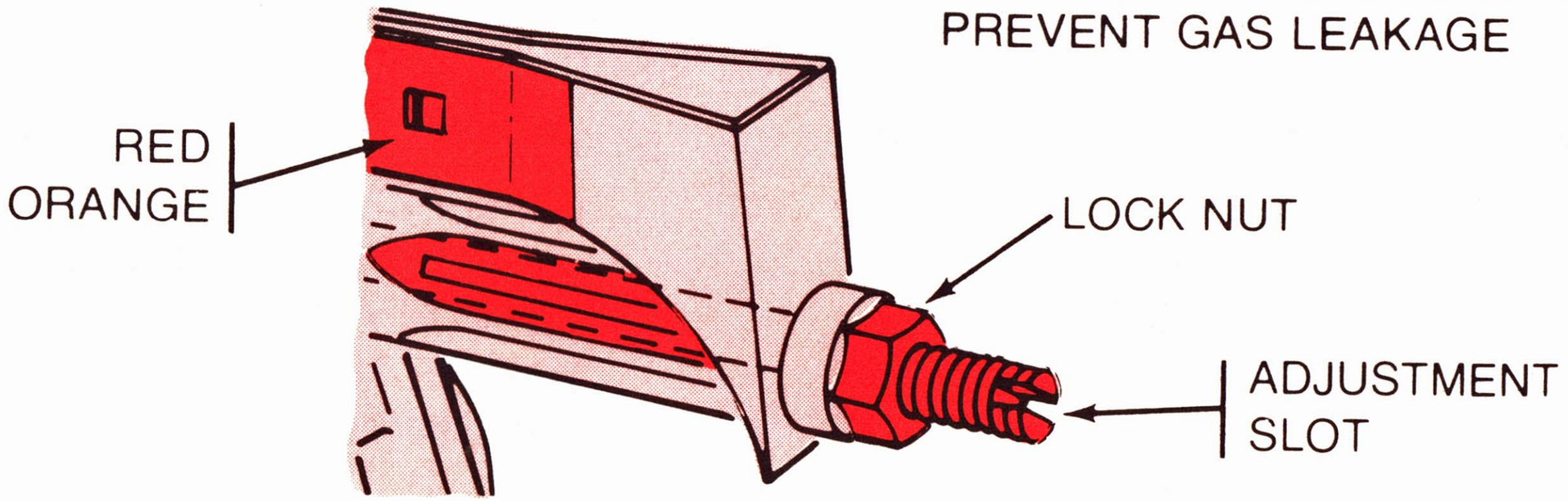
BLANK AMMUNITION SHOULD NOT BE FIRED TOWARD PERSONNEL WITHIN 20 FEET OF THE MUZZLE BECAUSE FRAGMENTS OF A CLOSURE WAD OR PARTICLES OF UNBURNED PROPELLANT MIGHT INFLICT INJURY WITHIN THAT RANGE



M13 (INTERNAL ADJUSTMENT)
NSN 1005-00-073-8467

MAKE SURE RESTRICTION TUBE IS TIGHT AGAINST END OF BARREL TO PREVENT GAS LEAKAGE

THE RESTRICTOR TUBE MUST SEAT TIGHT AGAINST THE MUZZLE END OF THE BARREL TO PREVENT GAS LEAKAGE



M13A1 (EXTERNAL ADJUSTMENT)
NSN 1005-00-140-3515

CLEAN GUN AFTER FIRING 1000 BLANK ROUNDS, OR BEFORE IF NECESSARY, INCLUDING BARREL ASSEMBLY, GAS CYLINDER, GAS PISTON, GAS PORT, CHAMBER, BORE, AND BLANK FIRING ATTACHMENT (BFA)

PREPARATION OF A RANGE CARD

IN A DEFENSIVE SITUATION, THE OPERATOR WILL NEED TO MAKE A RANGE CARD. THE ESSENTIAL ELEMENTS OF THE RANGE CARD ARE:

1 A KNOWN REFERENCE POINT (RP)

2 THE DIRECTION AND DISTANCE FROM THE RP TO THE MACHINE GUN

3 THE MACHINE GUN POSITION

4 THE SECTOR OF FIRE WITH LEFT AND RIGHT LIMITS (IN THIS CASE, ALSO FINAL PROTECTIVE LINE, FPL)

5 THE MAGNETIC AZIMUTH (MAG AZ) OF THE FPL

6 DEAD SPACE IN THE FPL WHERE THERE IS NO GRAZING FIRE

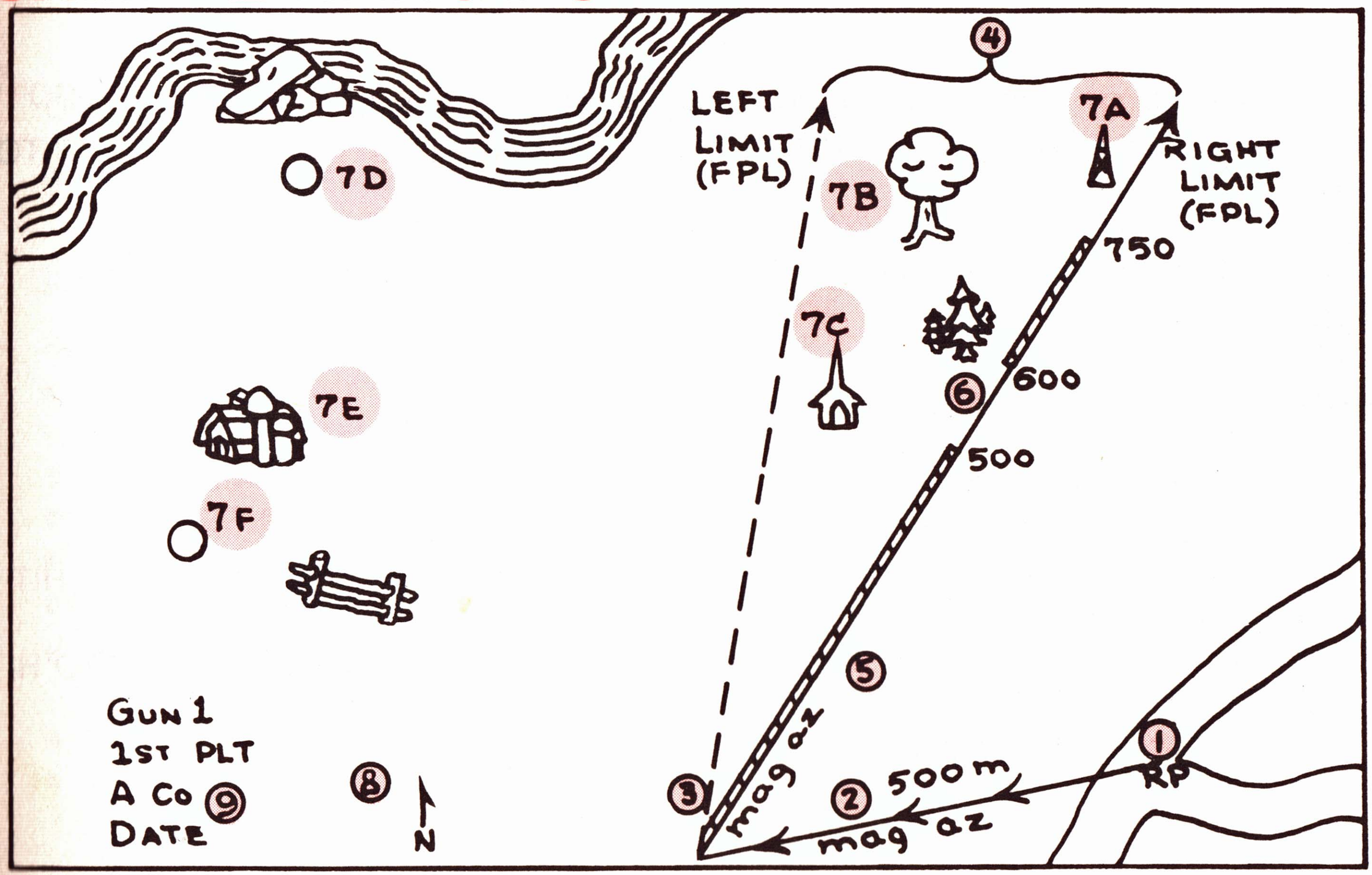
7 REFERENCE POINTS WITHIN THE SECTOR OF FIRE (7A THRU 7F)

8 MAGNETIC NORTH

9 GUN UNIT AND DATE

A DETAILED LEGEND OR DATA SECTION WILL ACCOMPANY THE RANGE CARD.
SEE PAGE 64.

SAMPLE RANGE CARD



DATA SECTION FOR RANGE CARD

THE PURPOSE OF THE RANGE CARD AND DATA SECTION IS TO PRERECORD INFORMATION ON VARIOUS TARGETS TO USE DURING LIMITED VISIBILITY OR TO RAPIDLY ADJUST FIRE

TARGET NUMBERS (REFERENCE NUMBERS 7A thru 7F) INDICATE REFERENCE POINTS IN FIELD OF FIRE

INFORMATION ON EACH TARGET INCLUDES

TARGET DESCRIPTION
RANGE TO TARGET
ELEVATION SETTING ON TRAVERSING AND ELEVATING MECHANISM TO HIT TARGET
DEFLECTION SETTING ON TRAVERSING AND ELEVATING MECHANISM TO HIT TARGET
ANY PERTINENT REMARKS

MAINTENANCE CHECKLIST

FOR CLEANLINESS AND OVERALL CONDITION OF

- **BARREL ASSEMBLY**
  Chamber bore and flash suppressor. Gas cylinder, gas port, and gas piston
- **RECEIVER ASSEMBLY**
  Operating rod guide, rails, and rear bridge rivets
- **BOLT ASSEMBLY**
- **SIGHTS (FRONT AND REAR)**
- **SHOULDER STOCK**
- **BIPOD ASSEMBLY**
- **TRIGGER GRIP ASSEMBLY**
- **COCKING HANDLE ASSEMBLY**
- **COVER, FEED TRAY, AND BANDOLEER HANGER ASSEMBLY**
- **BLANK FIRING ATTACHMENT (BFA)***
  Clean after firing 500 rounds or after each day's firing whichever comes first
- **TRIPOD MOUNT M122**
- **T AND E MECHANISM**

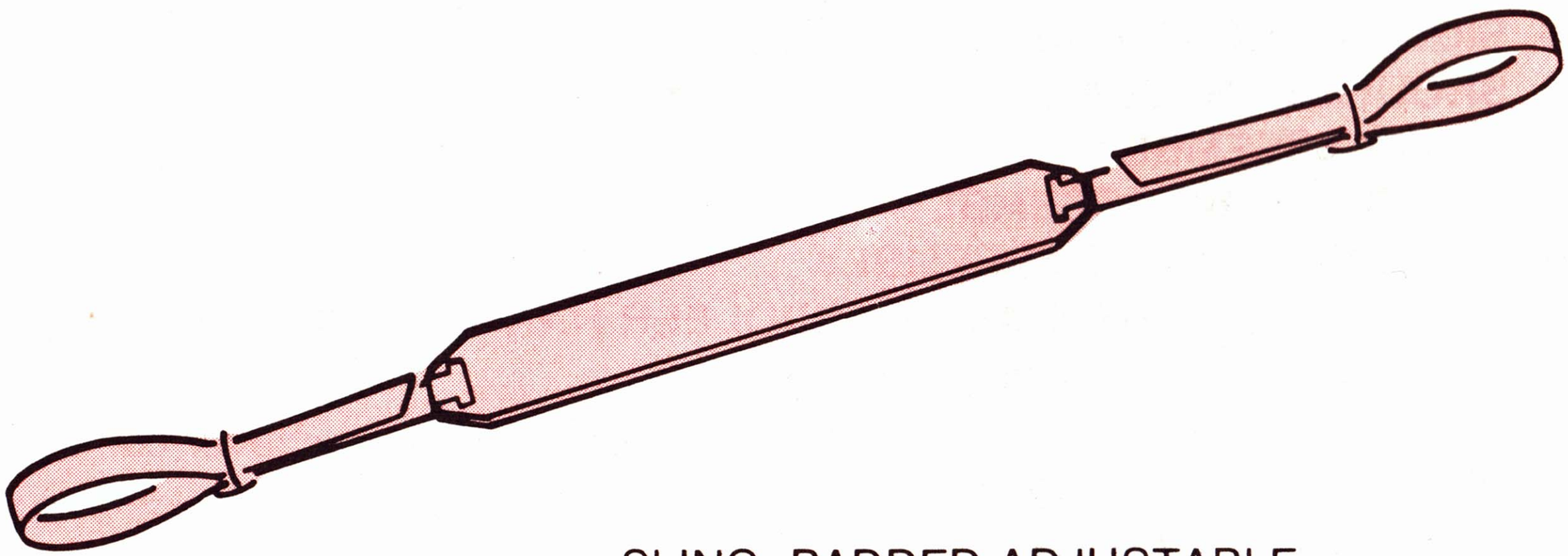
***REMEMBER THE BFA CAUSES MORE CARBON FOULING**

COMPONENTS OF END ITEM

THE SLING IS A COMPONENT OF THE MACHINE GUN.

IT MUST ACCOMPANY IT WHENEVER IT IS TRANSFERRED OR

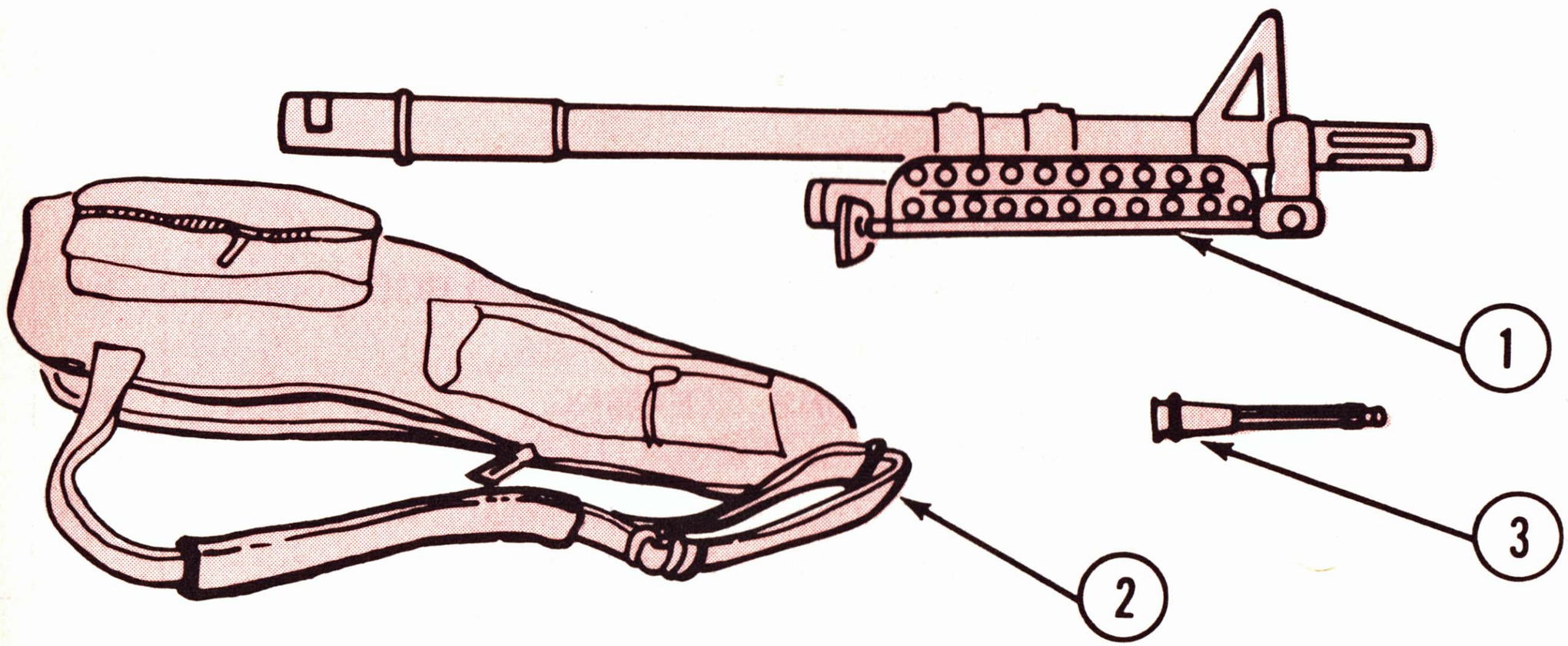
TURNED IN



SLING, PADDED ADJUSTABLE
1005-00-312-7177

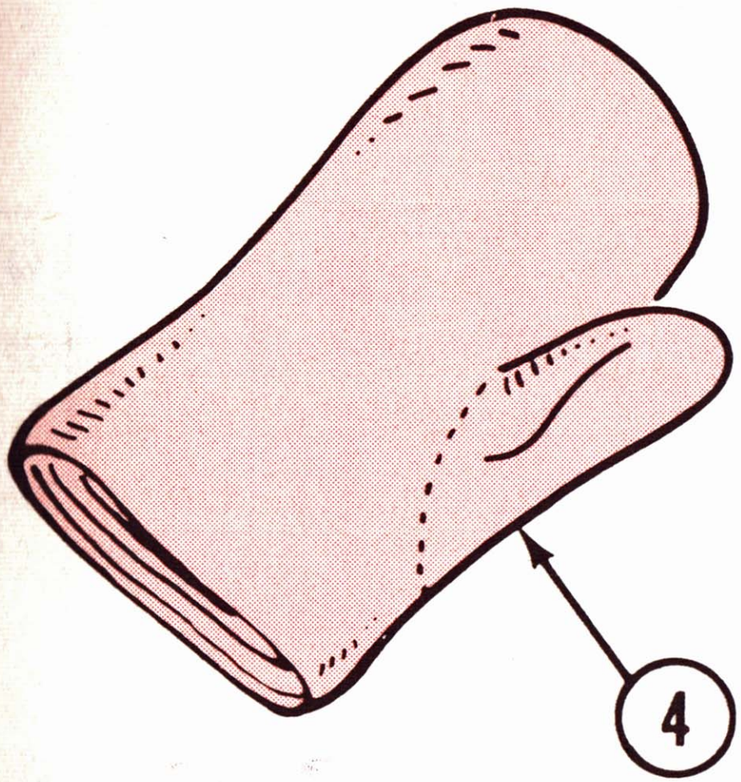
BASIC ISSUE ITEMS

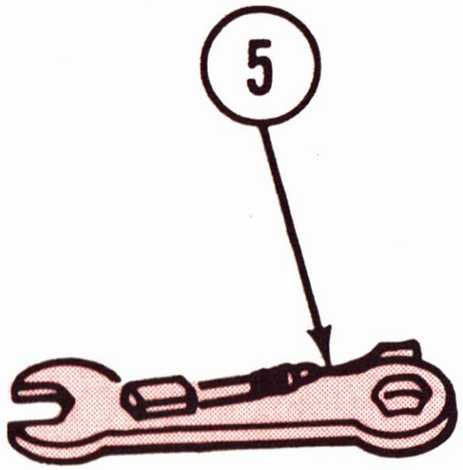
ILL	NSN	ITEM	U/M	QTY
1	1005-00-608-5001	BARREL AND BIPOD ASSEMBLY 7269027 (19204)	EA	1
2	1005-00-791-5420	CASE, CARRYING, BARREL ASSEMBLY AND EQUIPMENT 7791009 (19205)	EA	1
3	4933-00-652-9950	EXTRACTOR: RUPTURED CARTRIDGE CASE 7790352 (19205)	EA	1

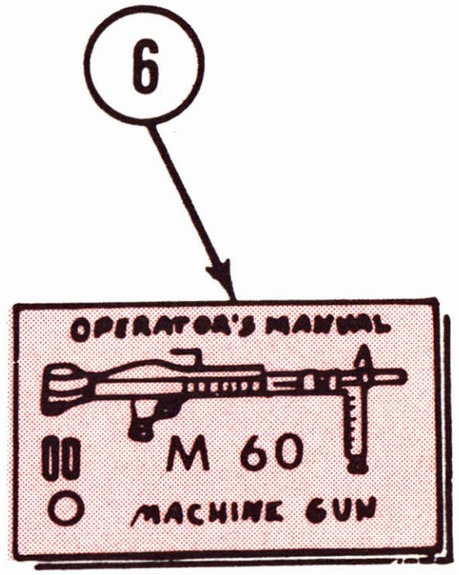


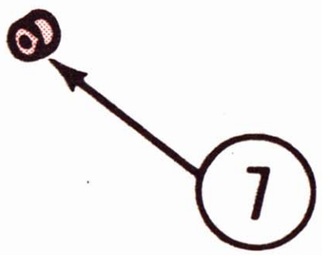
BASIC ISSUE ITEMS - Continued

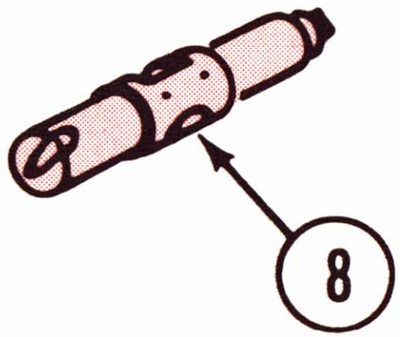
ILL	NSN	ITEM	U/M	QTY
4	8415-00-266-8843	MITTEN, ASBESTOS: MIL-M-11199 (81349)	EA	1
5	5120-00-461-1075	WRENCH: SCREWDRIVER AND REAMER (COMBINATION) 8448458 (19204)	EA	1
6		TM 9-1005-224-10	EA	1
7	1005-00-694-1662	BUFFER CLEANING ROD: 7268275 (19205)	EA	1
8	1005-00-793-6761	HANDLE ASSEMBLY: CLEANING ROD 7266115 (19204)	EA	1
9	1005-00-726-6109	ROD SECTIONS, CLEANING, SMALL ARMS: 7266109 (19204)	EA	5
10	1005-00-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: 7266110 (19204)	EA	1

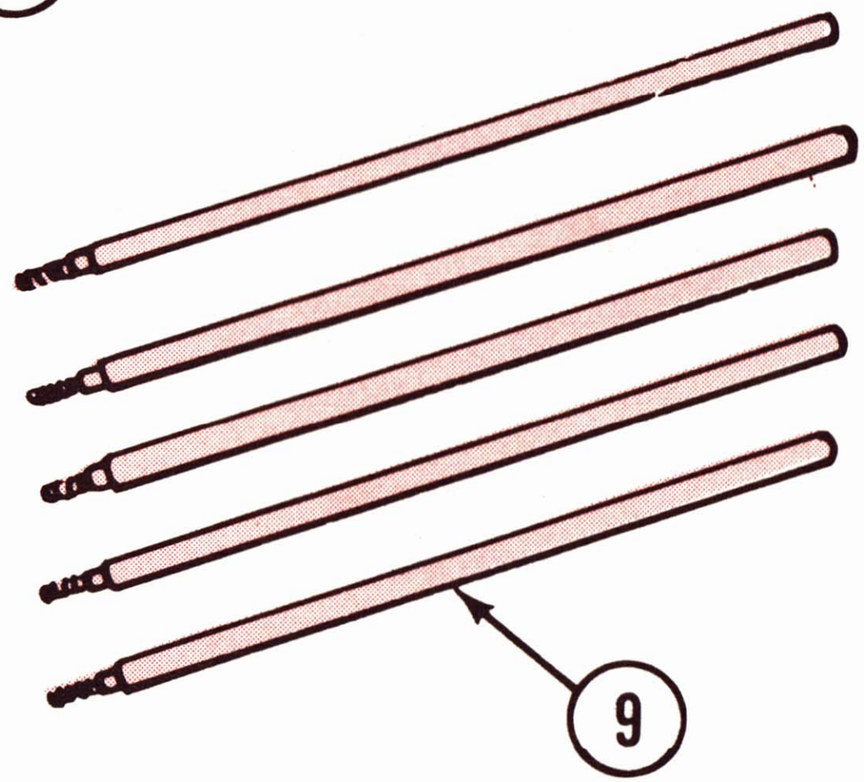

4

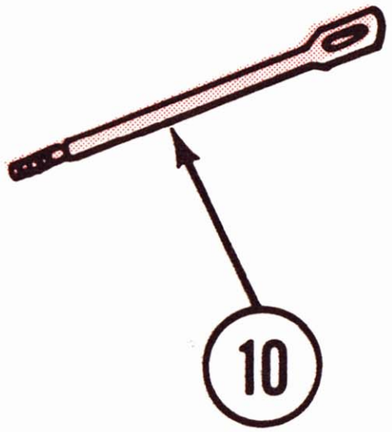

5


6
OPERATOR'S MANUAL
M 60
MACHINE GUN


7

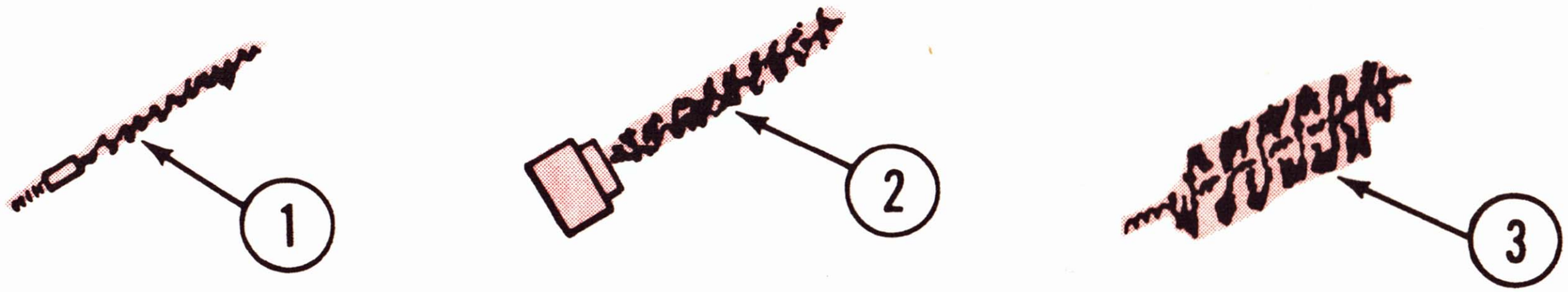

8


9


10

ADDITIONAL AUTHORIZATION LIST

ILL	NSN	ITEM	U/M	QTY
1	1005-00-556-4174	BRUSH, CLEANING, SMALL ARMS: (BORE) 5564174 (19204)	EA	2
2	1005-00-690-3115	BRUSH, CLEANING, SMALL ARMS: (CHAMBER) 7790452 (19204)	EA	1
3	1005-00-350-4100	BRUSH, CLEANING, SMALL ARMS: (RECEIVER) 8448466 (19204)	EA	1



NOTE

These are additional items you will need when you use the M60 machine gun. They do not have to be turned in with the machine gun. They are authorized by CTA, MTOE, TDA OR JTA. NSNs and description and a quantity for each are to help you identify and request them to support the machine gun

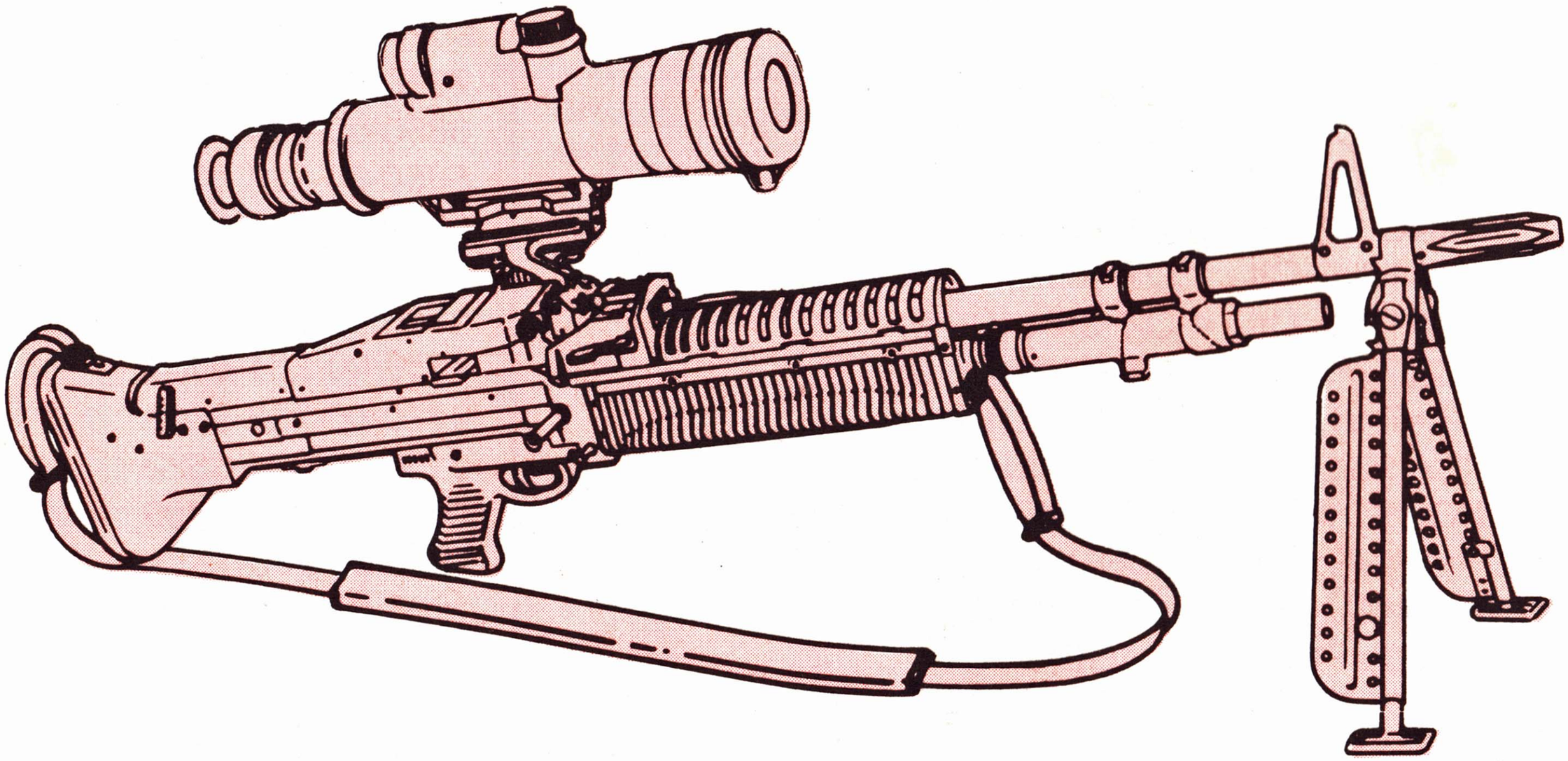
EXPENDABLE SUPPLY AND MATERIAL ITEMS

BRUSH, ARTISTS	8020-00-244-0153
BRUSH, CLEANING TOOL AND PARTS	7920-00-205-2401
CLEANING COMPOUND SOLVENT, 2 OZ CAN (RBC)	6850-00-224-6656
CLEANING COMPOUND SOLVENT, 6 OZ CAN (RBC)	6850-00-224-6657
CLEANING COMPOUND SOLVENT, 1 GAL CAN (RBC)	6850-00-224-6663
LUBRICATING OIL, 1 QT (LSA)	9150-00-687-4241
LUBRICATING OIL, 4 OZ CAN (PL-S)	9150-00-273-2389
LUBRICATING OIL, 1 QT CAN (PL-S)	9150-00-231-6689
LUBRICATING OIL, 1 QT CAN (LAW)	9150-00-292-9689
LUBRICATING OIL, SEMI-FLUID, 4 OZ CAN (LSA)	9150-00-889-3522
LUMINOUS TAPE, 1 INCH WIDE 50 YD ROLL	9390-00-473-1499
RAG, WIPING (50 LB BUNDLE)	7920-00-205-1711
SWAB, SMALL ARMS CLEANING COTTON, 1 PKG (1000 PER PACKAGE)	1005-00-288-3565

NOTE

These pages list expendable supplies and materials you will need to operate and maintain the weapon. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts and Heraldic Items)

NIGHT VISION SIGHT MOUNTED ON M60 MACHINE GUN

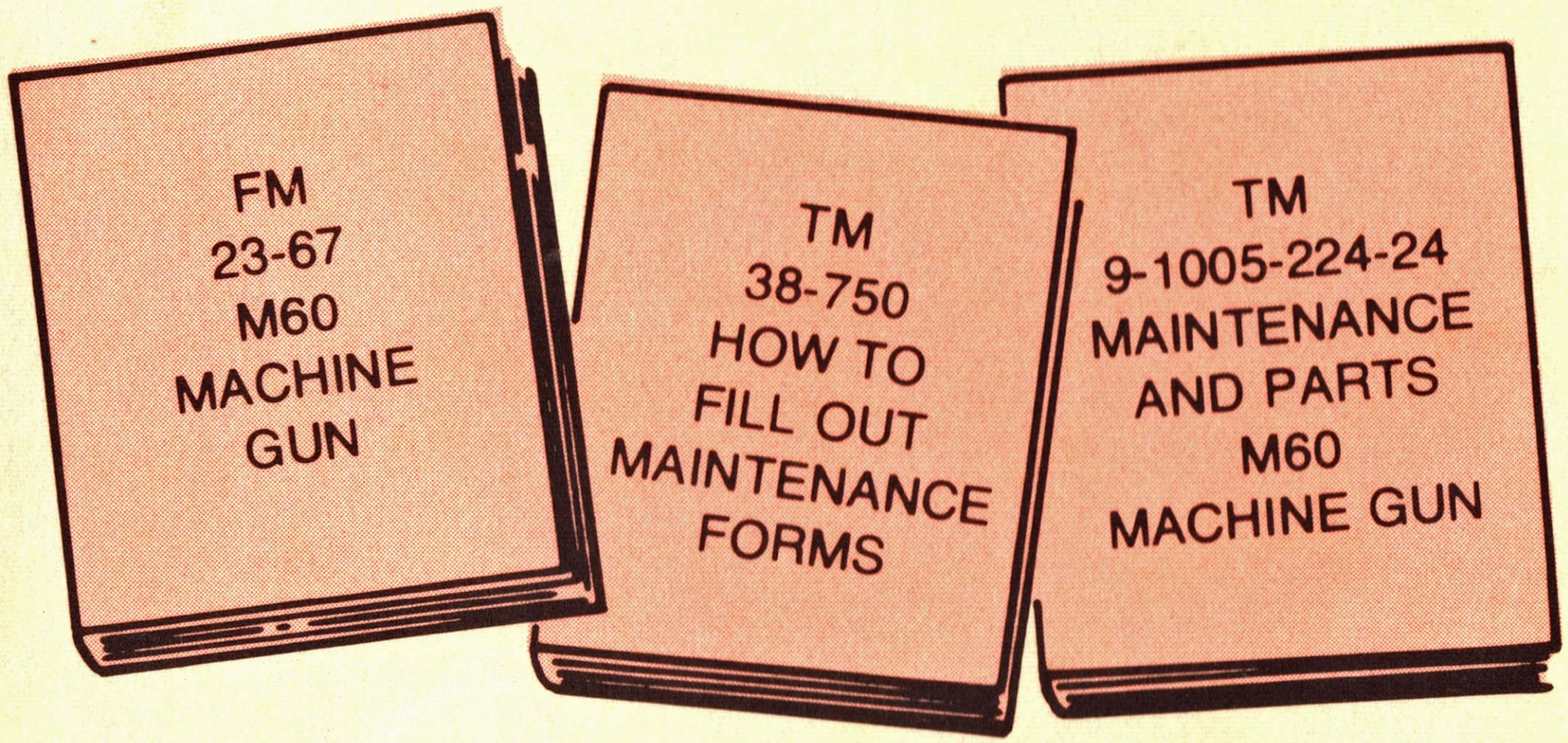


FOR INFORMATION ON THE CREW SERVED WEAPON NIGHT VISION SIGHT AN/TVS-5 WHEN MOUNTED ON THE M60 MACHINE GUN REFER TO TM 11-5855-214-10

☆ U.S. GOVERNMENT PRINTING OFFICE: 1981— 751-383

STOP WHY NOT LOOK!

YOU MIGHT EVEN LEARN SOMETHING



COMPANY HQ AND SUPPORT MAINTENANCE WILL HAVE THESE

TM 9-1005-224-10

This manual supersedes TM 9-1005-224-10 with all changes, dated October 1970.

By Order of the Secretary of the Army

E. C. MEYER
General, United States Army,
Chief of Staff

Official:

J. C. PENNINGTON
Major General, United States Army,
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-40, Operator and Crew Maintenance requirements for Gun, Machine, 7.62-mm, M60, and Mount M122.