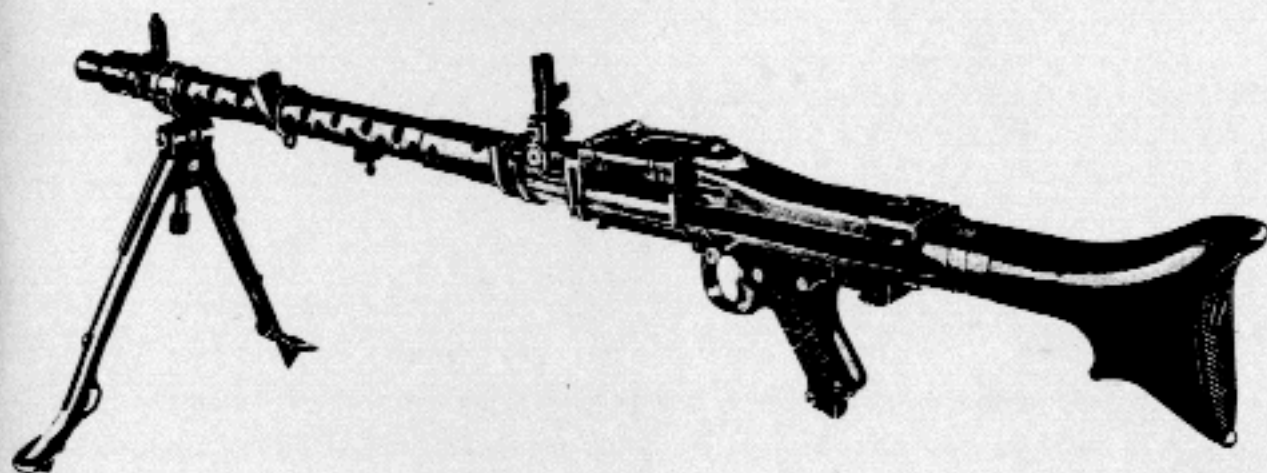


TM E9-206A

WAR DEPARTMENT TECHNICAL MANUAL

TM E9-206A (German)

German 7.9-mm Dual Purpose
Machine Gun MG34



WAR DEPARTMENT, 13 APRIL 1943

WAR DEPARTMENT
 Washington 25, D. C., 13 April 1943

TM E9-206A, German 7.9-mm Dual Purpose Machine Gun MG34, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

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(For explanation of symbols, see FM 21-6.)

A reprint of the original

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GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34

Section I

INTRODUCTION

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1. SCOPE.

a. This manual is published for the information and guidance of the using arms and services. It contains information required by the using arms to identify, operate, disassemble, assemble, and preserve the German 7.9-mm Dual Purpose Machine Gun MG34.

2. CHARACTERISTICS.

a. The German 7.9-mm Dual Purpose Machine Gun MG34 is a recoil-operated, air-cooled weapon capable of delivering single or full automatic fire. The gun is normally fed from 50-round flexible, metal belts, two or more of which can be joined end to end. However, in operations where rapid movement is required, or for antiaircraft fire, a 50-round belt drum magazine or a 75-round spring-operated drum magazine is used. The gun can be identified easily by the recoil booster (fig. 1), perforated barrel casing (fig. 1), grooves for mounting the weapon (fig. 1), front and rear sights (fig. 1), seat for the anti-aircraft sight (fig. 2), hand grip with trigger and safety, dust cover (fig. 2), and fin-shaped butt (fig. 2). It can be used on a bipod (fig. 3), on an antiaircraft tripod (fig. 4), or on a tripod mount (fig. 5).

3. DATA.

Weight of machine gun, with bipod	26¾ lb
Weight of machine gun, without bipod	24¼ lb
Weight of barrel	4.44 lb
Over-all length	48¼ in.
Length of barrel	24½ in.
Caliber	(7.9 mm) 0.312 in.
Sight radius	20 ¹⁵ / ₁₆ in.
Rifling	4 right-hand concentric grooves
Cyclic rate of fire	800 to 900 rounds per min

4. CAUTIONS.

a. All preservative and dirt must be removed from the gun before firing. To do this, disassemble the gun (par. 17) and clean as instructed in paragraph 22.

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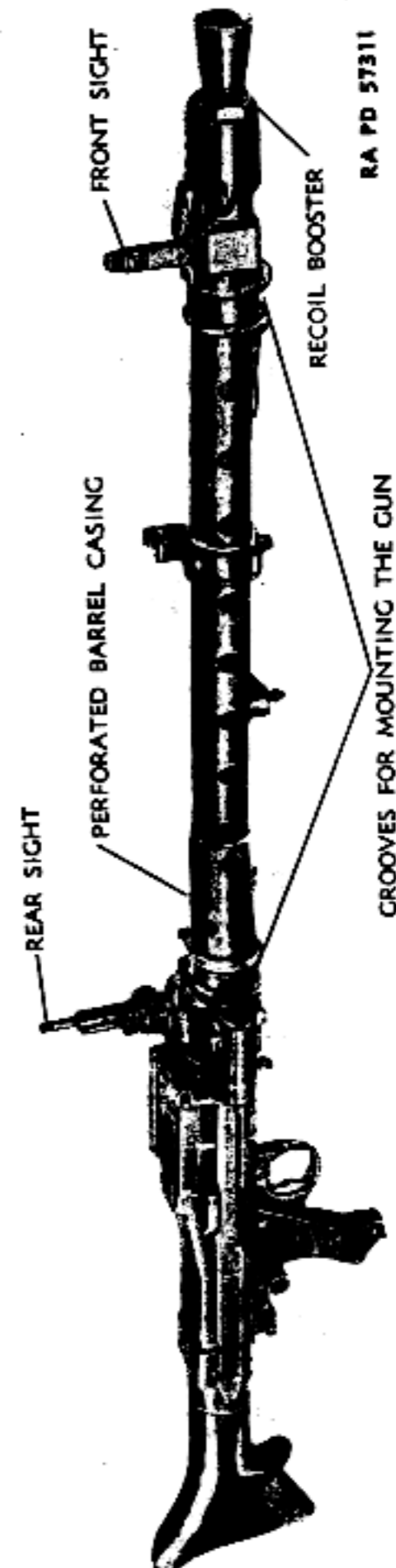
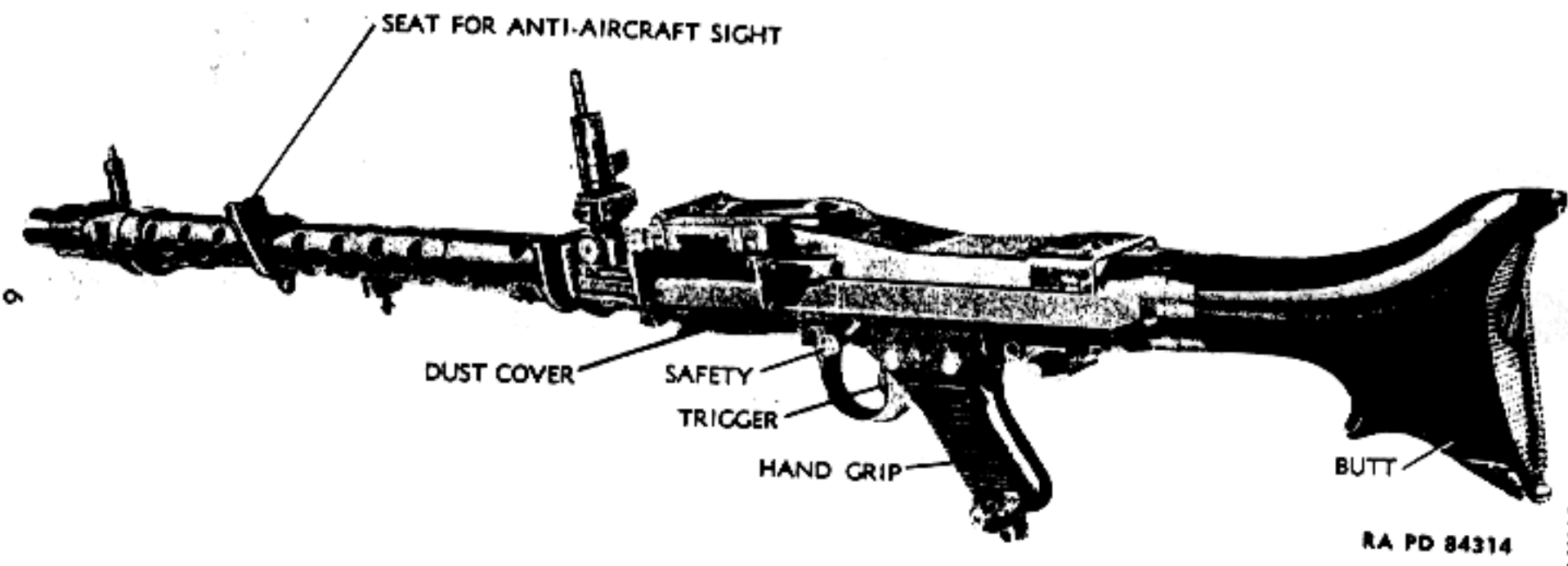
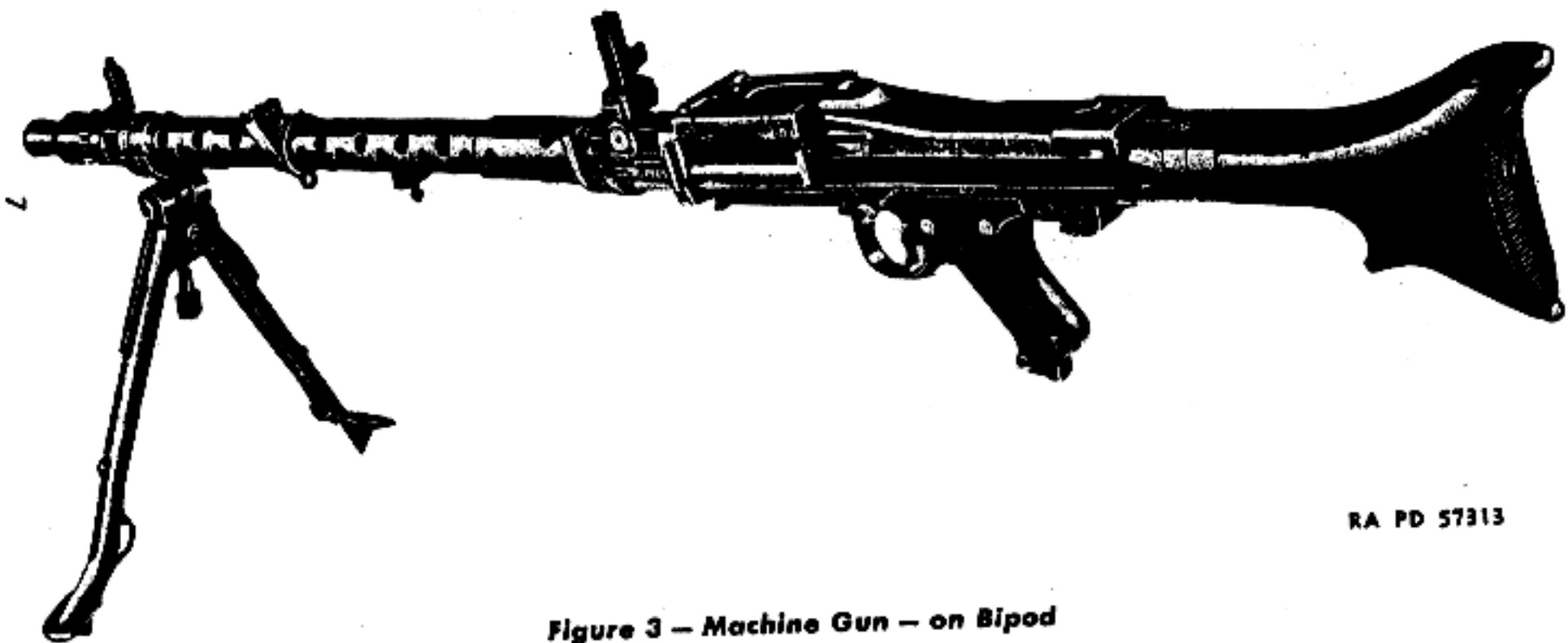


Figure 1 — German 7.9-mm Dual Purpose Machine Gun MG34 — Right Side View



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Figure 2 - German 7.9-mm Dual Purpose Machine Gun MG34 - Left Side View



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Figure 3 - Machine Gun - on Bipod

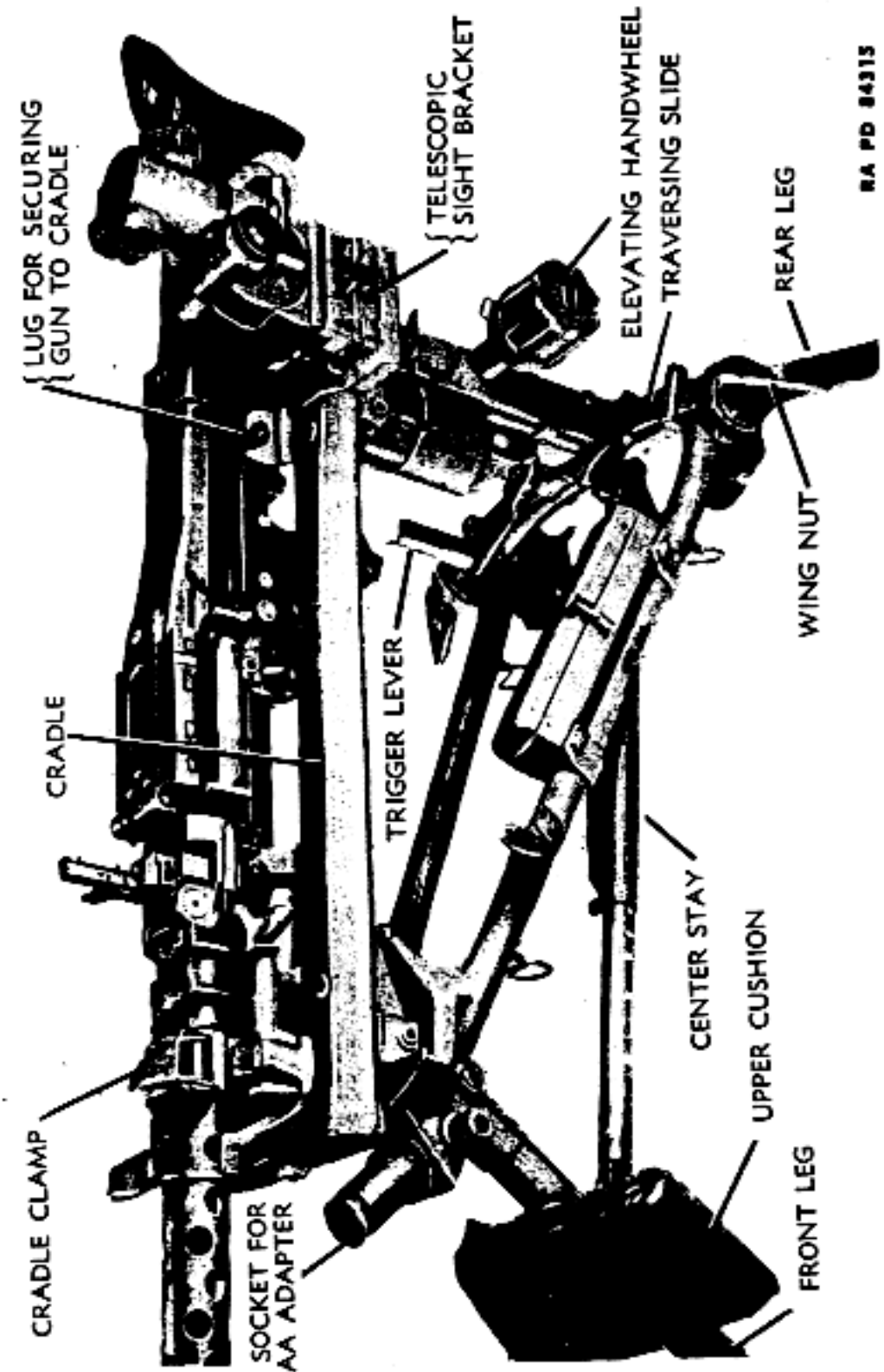
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Figure 4 - Machine Gun - on Antiaircraft Tripod

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Figure 5 - Machine Gun - on Tripod Mount

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b. Do not attempt to fire this gun with ammunition issued only for United States weapons, as it will damage the gun and injure the operator. Use only enemy ammunition or other ammunition specifically authorized by ordnance personnel (par. 31).

c. Before using any ammunition, make certain the ammunition and belt are clean and free of all traces of sand and dust.

d. The mechanism of the gun is very sensitive to dust or sand. When the gun is not in action, keep the dust cover (fig. 2) on the ejection opening closed.

e. It is dangerous to investigate a feed stoppage or malfunction by raising the feed cover without first cocking the gun or retaining a hold on the cocking handle. Should a live round remain in the chamber, the raising of the feed cover would allow the bolt to continue forward to fire the round, thus causing damage. Should a stoppage occur during firing, cock the gun and move the safety to **SAFE**. Then push the feed cover catch forward, raise the feed cover, and lift out the belt. If the gun cannot be cocked, apply a backward pull on the cocking handle and, at the same time, raise the feed cover and remove the belt. The gun can then be cocked. For further instructions, see section IV.

f. Unload the gun before transporting the gun from one place to another (par. 10).

**Section II
OPERATION**

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Mounting the machine gun.....	5
Dismounting the machine gun.....	6
Filling the belts and magazines.....	7
Loading the machine gun.....	8
Firing the machine gun.....	9
Unloading the machine gun.....	10
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5. MOUNTING THE MACHINE GUN.

a. On the Bipod. Slide the curved head of the bipod into the front mounting guide on the barrel casing. Depress the bipod catch spring on the underside of the casing (fig. 6), and rotate the bipod in the guide until the spring snaps into position. Turn the bipod legs toward the muzzle end and set them on the ground. To adjust the

OPERATION

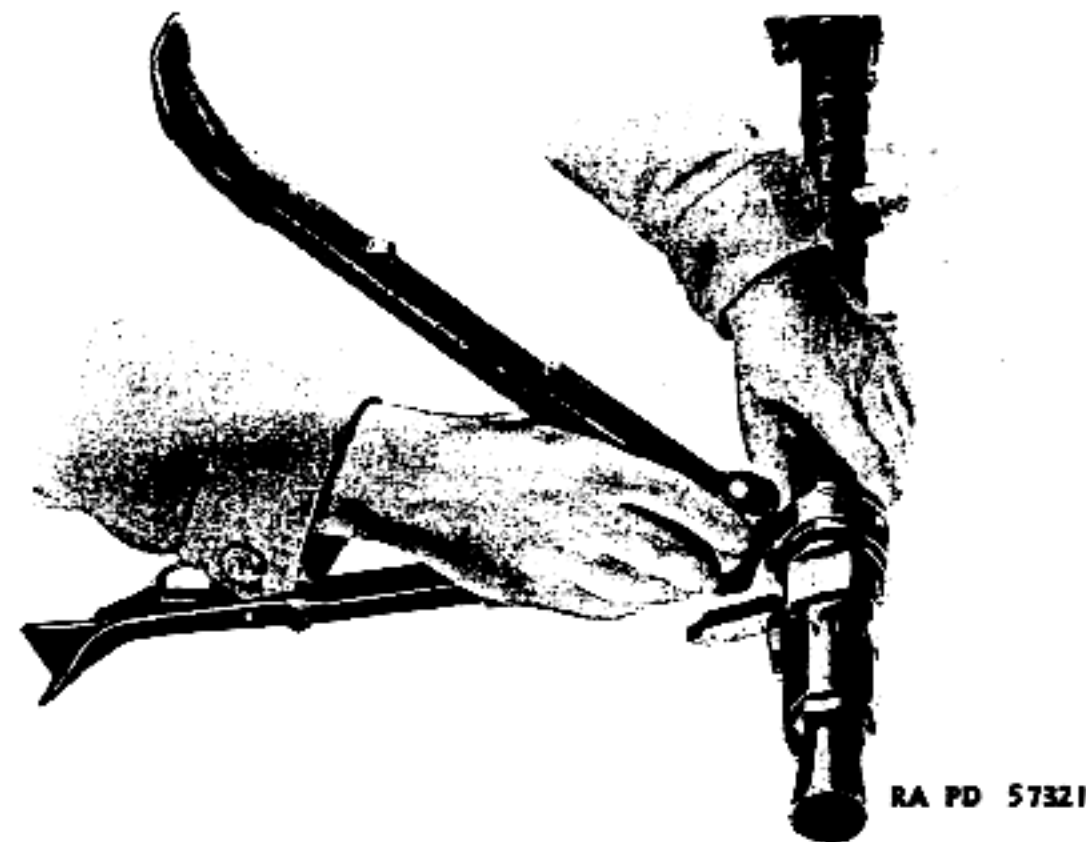


Figure 6 - Mounting Machine Gun on Bipod



Figure 7 - Attaching Bipod Legs to Barrel Casing

spread of the bipod legs, rotate the thumbscrew at the junction of the legs.

NOTE: If the gun is to be carried, collapse the bipod legs, fold

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them backward against the barrel casing, and secure them to the knob on the casing (fig. 7).

h. On the Antiaircraft Tripod. Place the machine gun on the tripod so that the curved head on the tripod slides into the rear mounting guide on the barrel casing. Depress the tripod catch spring, and rotate the machine gun until the spring snaps into position (fig. 8). The tripod legs are both hinged and telescopic, to permit large adjustments in the height of the firing position. Smaller adjustments can be made by means of the adjustable support at the top of the tripod.

c. On the Tripod Mount.

(1) If the tripod mount is folded, it should be unfolded and erected as follows:

(a) Release the clamping lever on the front leg, extend the front leg to the required position, and then lock the clamping lever.

(b) Loosen the wing nuts on the rear legs, and push the rear legs back. Raise the mount the required height and tighten the wing nuts.

(c) With one hand, grasp the handle; with the other hand, grasp the cradle. Push the press lever forward and raise the cradle, drawing the elevating gear smartly back (fig. 9) until it stands erect and engages the upper part of the mount.

(d) Adjust the legs, so that the cradle is horizontal when the elevating gear is adjusted to its old position. The machine gun can now be mounted on the mount.

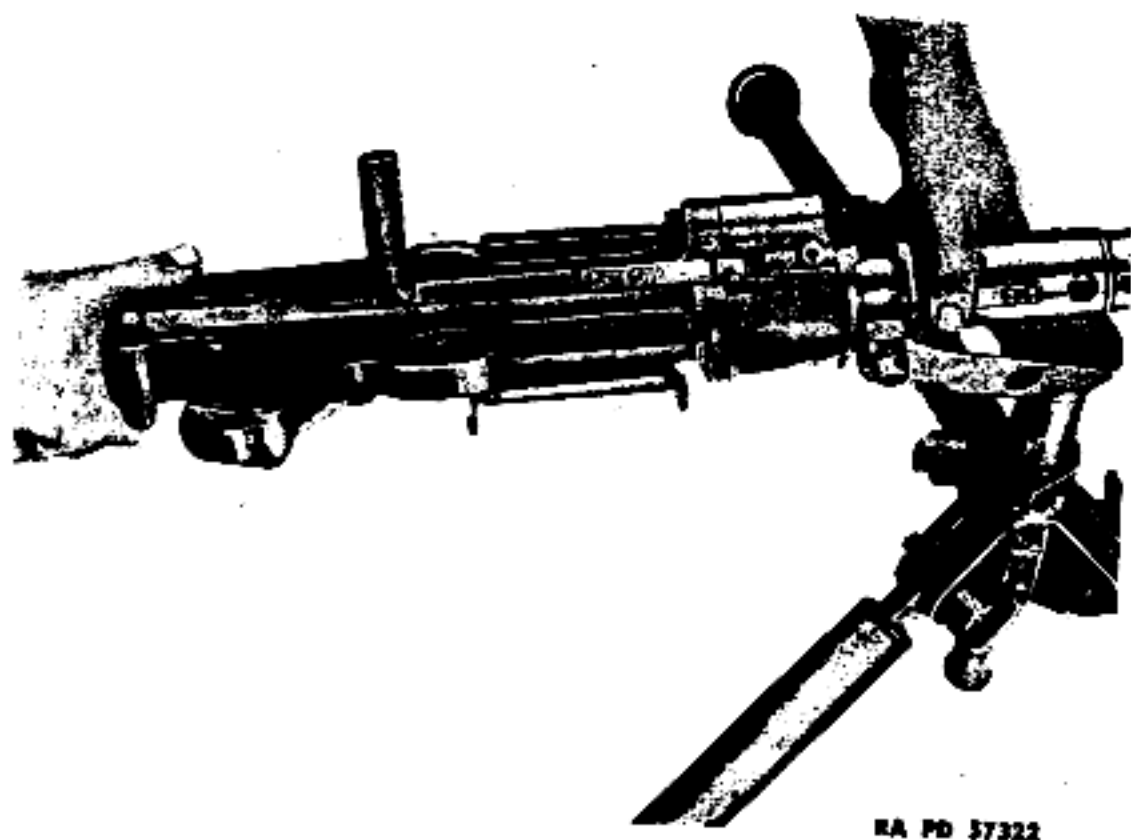


Figure 8 — Mounting Machine Gun on Antiaircraft Tripod

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(2) Place the machine gun (muzzle end up) on the mount, so that the projections on each side of the gun fit into the claws on the cradle (fig. 10). Lower the front part of the gun on the cradle and secure it by means of the hinge clamp.

d. On Antiaircraft Adapter of Tripod Mount. For antiaircraft fire from the tripod mount, an adapter is secured in the short tube near the swivel (fig. 5). The adapter is similar to the adjustable support at the top of the tripod. The gun is mounted on the adapter as on the tripod. The cradle must be folded when the adapter is used and the adapter should be in a vertical position.

6. DISMOUNTING THE MACHINE GUN.

a. To dismount the machine gun, proceed in the reverse order of mounting (par. 5).

7. FILLING THE BELTS AND MAGAZINES.

a. Belts.

(1) Place a 50-round leading belt on a flat surface, with the leading tab to the right and the tongues up. Insert a round into each link, and push it forward until the tongue snaps into the groove at the rear of the cartridge case (fig. 11).

NOTE: Do not insert a round into the first link. This link is short and has no tongue (fig. 11).

(2) The 50-round leading belt can be extended by joining it to 50-round extension belts. Fill a 50-round extension belt, but do not fill the first link having the rectangular opening (fig. 11). Insert the tongue at the end of the leading belt into the rectangular opening in the first link of the extension belt, and join belts by inserting a round (fig. 11). It is common practice to join as many as four extension belts to a 50-round leading belt.

(3) Instead of a 50-round leading belt, it is possible to join five 50-round extension belts to a short leading belt (fig. 12).

(4) If a short leading belt is not available, an extension belt (or belts) can still be used. However, when loading the belt, do not insert rounds in first three links.

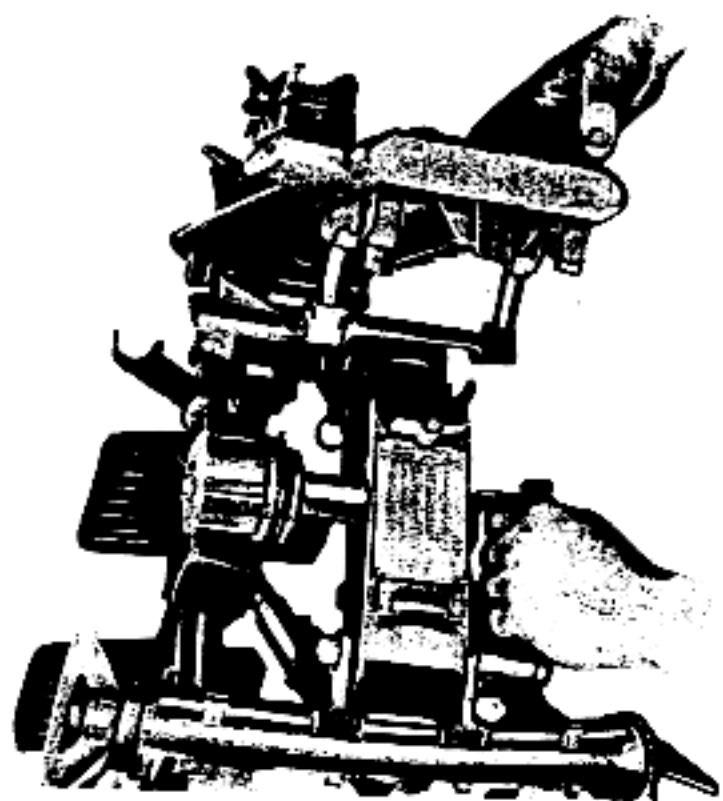
b. 50-round Belt Drum Magazine.

(1) Fill an extension belt and turn it over with tongues on bottom and empty link to the right. Roll up the belt from the left end and insert it into the belt drum magazine with the empty link on the outside (⊙ fig. 13).

(2) If the magazine is to be used immediately or within a short time, fill a short leading belt and attach it (⊙ fig. 13). If the magazine is not to be used for some time, do not join a short leading belt. Instead, close the magazine slide and the cover, to keep dust out.

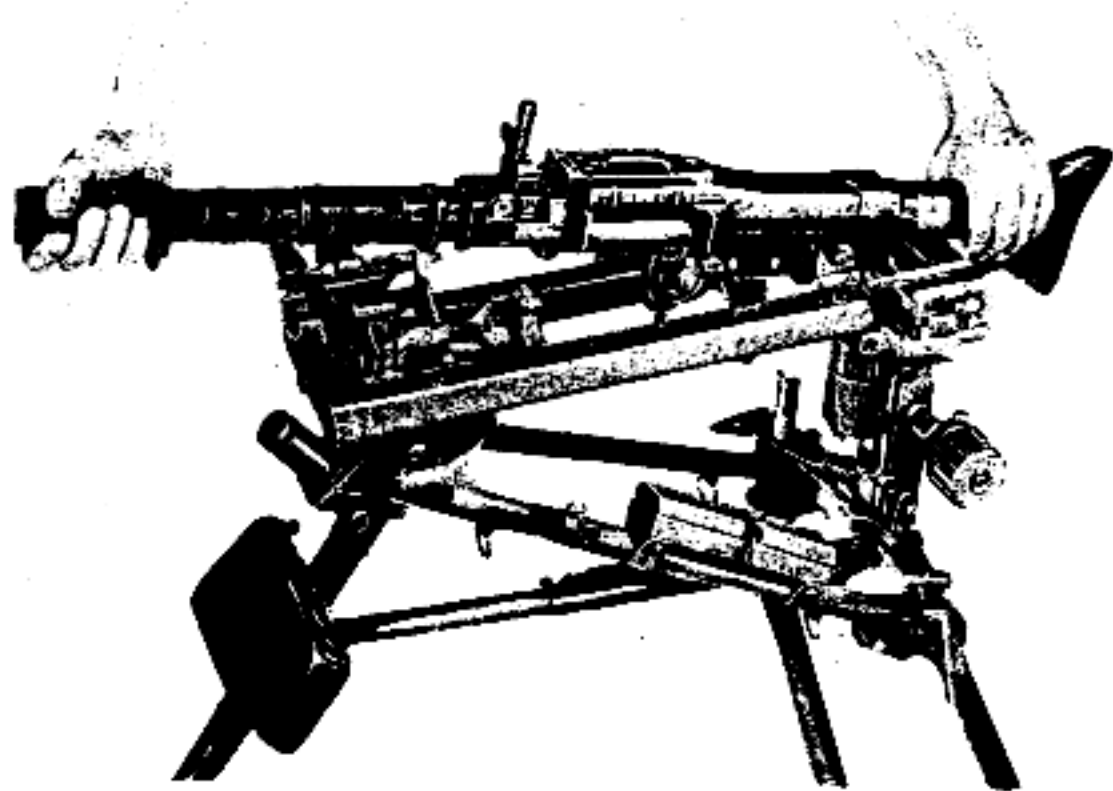
(3) The magazines are transported in carriers shown in figure 14.

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Figure 9 — Raising Cradle of Tripod Mount



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Figure 10 — Mounting the Machine Gun on the Tripod Mount

OPERATION

c. Spring-operated 75-round Drum Magazine. Apply tension to the magazine springs by turning the two tensioning ratchets on the magazine (fig. 27). Use an enemy tool (if available) or an improvised tool. Then, place the magazine with the mouth up and insert one round after another (fig. 15) until the magazine is filled.

8. LOADING THE MACHINE GUN.

a. General. Belt feed can be employed when the gun is mounted on the bipod, antiaircraft tripod, tripod mount, or tripod mount attachment. The 50-round belt drum magazine, and the 75-round spring-operated drum magazine, can be employed when the gun is mounted on the bipod, antiaircraft tripod, or tripod mount attachment, but not on the tripod mount.

b. Loading the Machine Gun With the Belt.

(1) If the bolt is fully home (in most forward position), press the safety lever (fig. 16), and move the safety forward to uncover the letter "F" (fig. 17). If the bolt is retracted, grasp the cocking handle, and, at the same time, pull the trigger, allowing the bolt to go slowly home. Set the safety at FIRE (move it forward to uncover letter "F").

(2) Push the feed cover catch forward and open the feed cover (fig. 18).

(3) Place the loaded belt on the feed block, so that the first round is on the slot of the feed block, and the leading tab is to the right (fig. 19).

(Text continued on page 21.)