

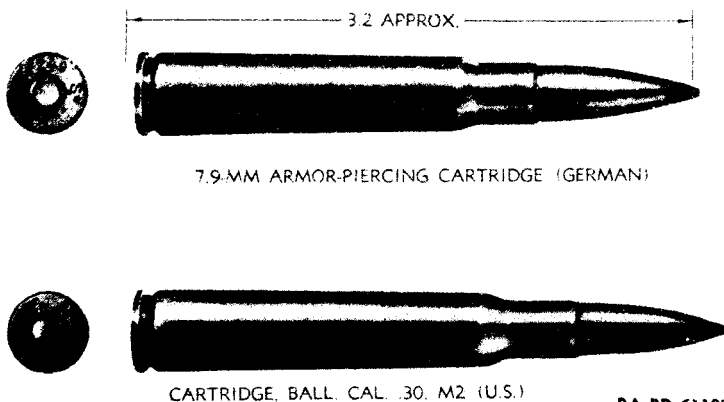
**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

c. Thoroughly clean all parts of the mechanism and the exterior of the weapon with SOLVENT, dry-cleaning. Dry with clean rags. After drying a metal part, do not touch with the bare hands. Then coat all metal parts with either OIL, lubricating, preservative, light, or COMPOUND, rust-preventive, light, depending on the probable length of storage. The bore is best coated with rust-preventive compound by dipping a cleaning brush in the compound and then running the brush through the bore two or three times. Then see that the bolt is fully home, and, handling the weapon by the butt and sling loop only, place it in the packing chest.

**Section VII**

**AMMUNITION**

	Paragraph
General .....	26
Classification .....	27
Identification .....	28
Authorized cartridges .....	29
Tropical ammunition .....	30
Interchangeability of ammunition .....	31
Precautions in handling captured ammunition .....	32
Care, handling, and preservation .....	33
Field report of accidents .....	34



**Figure 56 — Comparison of German 7.9-mm Armor-piercing Cartridge and Cal. .30 U.S. Ball Cartridge M2**

**(These Cartridges Can Not Be Used Interchangeably.)**

## AMMUNITION

### 26. GENERAL.

a. The standard small-arms ammunition for use in German rifles, carbines, and machine guns is known as Patrone s.S. (Patr. s.S.). This is usually referred to as 7.9-mm caliber ammunition but is more accurately 7.92-mm caliber. The 7.9-mm German ammunition is similar in appearance to, but is not interchangeable with, U.S. cal. .30 ammunition, as shown in figure 56. As encountered in the field, 7.9-mm ammunition may be packed in cartons, in magazine clips, and in machine gun belts in ammunition carriers and boxes (figs. 57, 58, and 59). Cartridges primarily for use in machine guns are packed in cartons and loaded into machine gun belts (equipment with the weapon) in the field.

### 27. CLASSIFICATION.

a. **General.** Patrone s.S. (Patrone schweres Spitzgeschoss) is the standard 7.9-mm service cartridge, whereas Patrone l.S. (Patrone leichtes Spitzgeschoss) is reported to be reserved for practice firing against air targets.

b. **Service Ammunition.** The main types of 7.9-mm service ammunition are as follows:

Type	German Abbreviated Designation
Armor-piercing .....	Patr. S.m.K.
Armor-piercing-tracer .....	Patr. S.m.K.L'spur
Armor-piercing-incendiary .....	Patr. P.m.K.
Ball .....	Patr. s.S.
Semi-armor-piercing .....	Patr. S.m.E.
Super-armor-piercing .....	Patr. S.m.K.H.

c. Practice ammunition may be classified as follows:

Type	German Abbreviated Designation
Ball .....	Patr. l.S.
Ball tracer .....	Patr. l.S.L'spur
Observation (or H.E. incendiary) ..	B-Patr.

### 28. IDENTIFICATION.

a. **General.** German small arms cartridges are identified primarily by markings on carton labels (fig. 60) and by appearance (fig. 56).

b. **Carton Labels.** In general, markings on carton labels do not indicate the caliber, except for nonstandard caliber sizes for purposes of distinction. The German 7.9-mm cartridges are indicated by "Patr." ("Patrone" or cartridge) followed by the type of cartridge, as indicated in paragraphs 27 and 29. For example, "Patr. S.m.K." indicates armor-piercing cartridges. No further markings on the carton label indicate 7.9-mm cartridges which are for use in rifles or machine guns. Additional markings may indicate the type of weapon

GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34

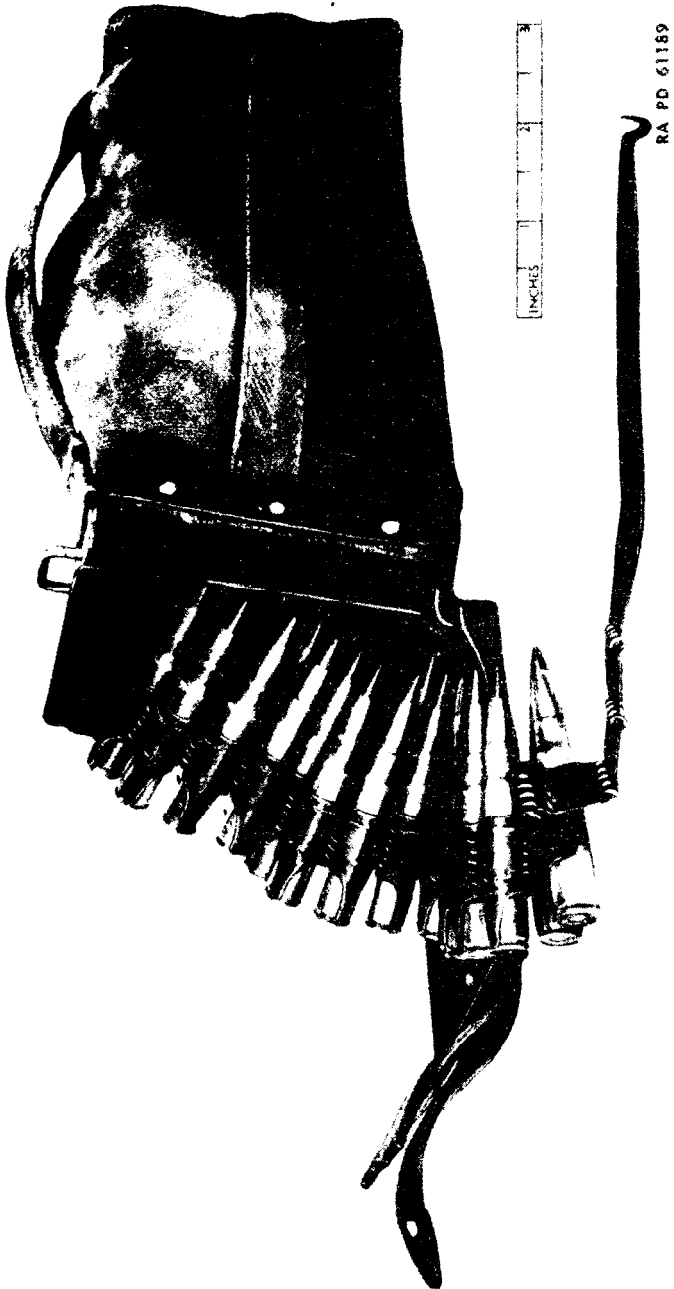


Figure 57 — Ammunition Carrier Showing Ammunition and Belt

AMMUNITION

RA PD 61190

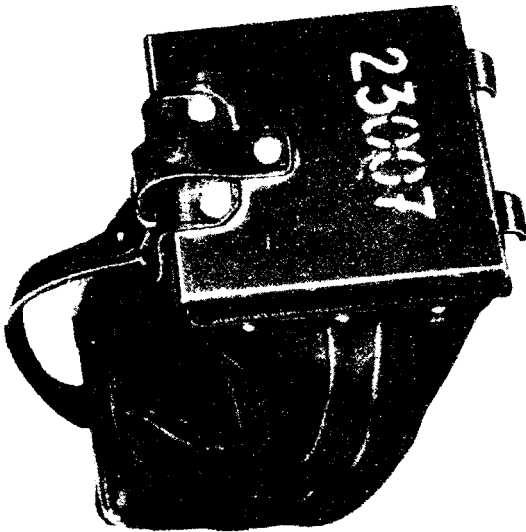
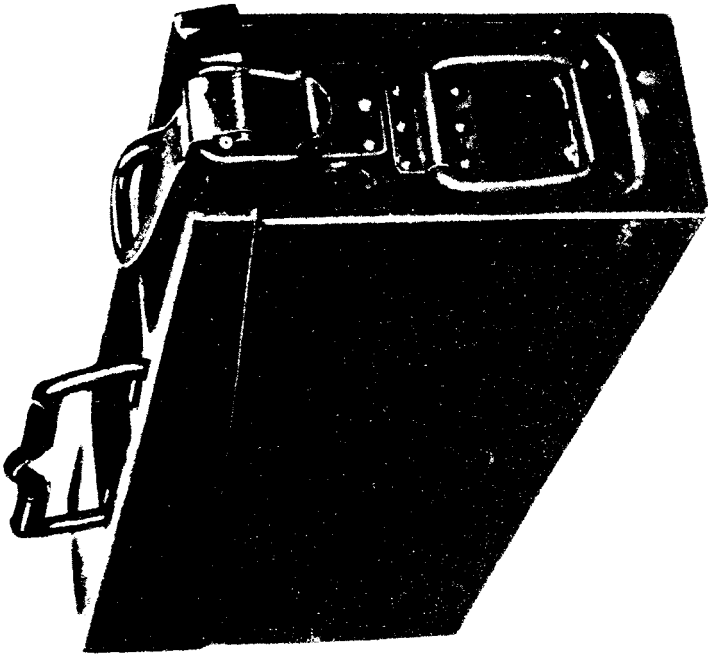
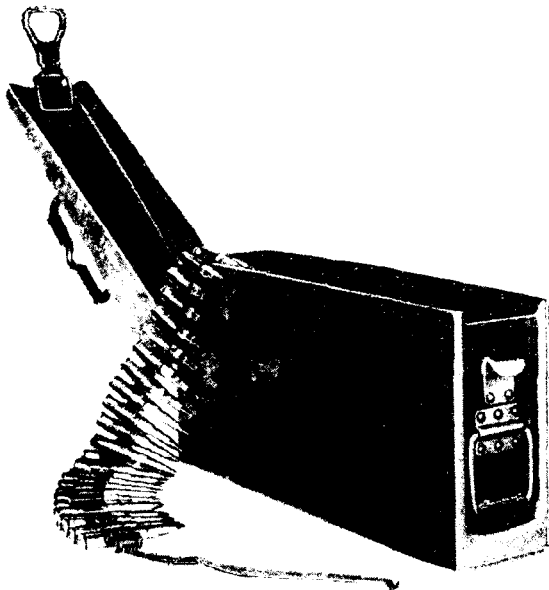


Figure 58 — Ammunition Carrier and Ammunition Box

**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

or packing, or the model of the weapon, as follows:

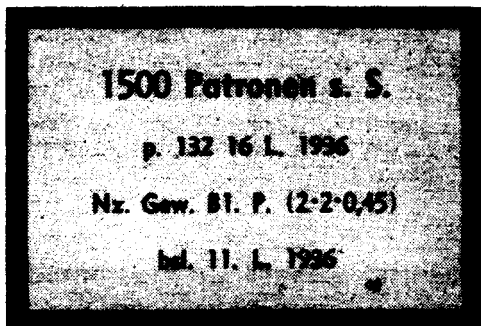
- "i.L." ..... Usually in red, indicates cartridges packed in clips. Issued for use in rifles, but may also be used in machine guns.
- "für Gew." or  
"nur für Gewehr" ..... Usually in red, indicates cartridges for use in rifles only.
- "für M.G." ..... Usually in red, indicates cartridges for use in machine guns.
- "Patr. 318" ..... Indicates cartridges only for antitank rifles (cartridge case is larger than that of the standard 7.9-mm ammunition described herein).
- "Pist. Patr. 08" ..... Indicates 8-mm pistol and submachine gun ammunition.



RA PD 61191

**Figure 59 – Ammunition Box Showing Ammunition and Belt**

## AMMUNITION



## BOX LABEL

*DIMENSIONS: 10.3 X 7.5 cms.*

Label color: White, with black border and printing.

1500 rounds Patronen schweres Spitzgeschoss.  
(1500 CARTRIDGES with heavy pointed bullets)

RA PD 61192

**Figure 60 – Label on Packing Containers of German 7.9- mm Cartridges**

c. Typical Carton Label Marking. Typical markings and their English equivalents are shown in Table I.

**TABLE I  
TYPICAL LABEL MARKING ON CARTONS OF  
GERMAN CARTRIDGES**

German Marking	English Equivalent
1500 Patronen S.m.K. L'spur (gelb)	1500 cartridges, A.P. tracer (yellow)
P. 69. 10.L. 39.	Lot number, 10th delivery, 1939
Nz. Gew. Bl. P. (2. 2. 0,45)	Rifle powder, NC flaked (size of grains)
Rdf. 47. L. 1935	Place of manufacture, 47th delivery, 1935
Patrh: S* P. 69 13L. 39	Brass cartridge case, S*, lot No., 13th delivery 1939 Polte Mfg.
Gesch: P. 69 13.L. 39-Geschoss- teile: P. 69	Bullet: lot No., 13th delivery, 1939
Satz: P. 69-zdh. 88: D.W.M. 774a. L. 39	Composition (tracer): Lot No. Cap 88: ?? delivery, 1939
Troken aufbewahren. Gegen Stoss u. Fall zu schutze.	Keep dry. Protect from blows.

NOTE: S\* indicates alloy of 72% copper and 28% zinc. "St" or "S" would indicate steel.

**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

d. **Markings on Cartridges.** Cartridges removed from their packings may be identified by appearance and markings. Typical markings on the base (fig. 56) are listed in Table II. Identifying color markings indicating type of cartridge are listed in Table III. For marking to indicate tropical ammunition, see paragraph 30.

**TABLE II**

**TYPICAL MARKINGS ON BASE OF GERMAN CARTRIDGES**

German Marking	English Equivalent
P 249 .....	Manufacturer's initial (Polte) and identification.
S*, S or St .....	S* (alloy of 72% copper and 28% zinc), S or St (steel)
46 .....	Delivery, 46th
35 .....	Year of manufacture, 1935

**TABLE III**

**COLOR MARKINGS INDICATING TYPE OF GERMAN CARTRIDGES**

Color of Primer Seat or Base Band	Color on Bullet	Type
Green base band .....	None .....	Light practice ball (Patr. I.S.)
Green .....	None .....	Heavy ball (Patr. s.S.)
Red .....	None .....	Armor-piercing (Patr. S.m.K.)
Red .....	Black tip .....	Armor-piercing-tracer (Patr. S.m.K. L'spur)
Black or red or red base band .....	None .....	Armor-piercing-incendiary (Patr. P.m.K.)
Black .....	Chromium-plated tip or all black except tip .....	Observation (B-Patr.), HE-incendiary
{ Red annulus .....	Black .....	} Super-armor-piercing (Patr.S.m.K.H.)
{ or Red primer .....	None .....	

## AMMUNITION

### c. Abbreviations.

TABLE IV

GERMAN ABBREVIATIONS

B.	Beobachtung	Observation
B.	Buchse	Shotgun, gun, rifle
Bd. G.	Brandgeschoss	Incendiary bullet
Beob.	Beobachtung	Observation
Bl. P.	Blattchenpulver	Flaked gunpowder
B-Patr.	Beobachtungsgeschoss	
	Patrone	Observation cartridge
Ex. Patr.	Exerzierpatrone	Dummy cartridge
f.	für	For
Flb.	Flugbahn	Trajectory
für Gew.	für Gewehr	For rifle
für M.G.	für Maschinengewehr	For machine gun
G.	Geschütz	Gun
G.	Gewehr	Rifle
Gesch.	Geschoss	Projectile, bullet
Gew.	Gewehr	Rifle
H.	Gehartet	Hardened
i.L.	in Ladestreifen	In rifle clip
K.	Kern; Stahlkern	Core; steel core
Kal.	Kaliber	Caliber, gage
Karab.	Karabiner	Carbine
l.	leicht	Light
L.	Ladestreifen	Rifle clip
L.	Lieferung	Delivery
L.	Lieferungsnummer	Delivery number
l.M.G.	leichtes Maschinengewehr	Light machine gun
L'spur	Leuchtspur	Tracer
m.	mit	With
m.E.	mit Eisenkern	With iron core (or soft steel core)
M.G.	Maschinengewehr	Machine gun
Mun.	Munition	Ammunition
Nz.	Nitrozellulose	Nitrocellulose
P.	Phosphor	Phosphorus
Patr.	Patronenhülse	Cartridge case
Patr. l.S.	Patrone leichte Spitzgeschoss	Cartridge with light, pointed bullet
Patr. l.S.L'spur	Patrone leichte Spitzgeschoss mit Leuchtspur	Cartridge with light, pointed bullet with tracer
Patr. P.m.K.	Patrone Phosphor mit Stahlkern	Cartridge with phosphorus with steel core
Patr. S.m.E.	Patrone Spitzgeschoss mit Eisenkern	Cartridge with pointed bullet with iron core
Patr. S.m.K.	Patrone Spitzgeschoss mit Stahlkern	Cartridge with pointed bullet with steel core



**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

Patr. S.m.K.H.	..... Patrone Spitzgeschoss mit Stahlkern Gehartet	Cartridge with pointed bullet with hardened steel core
Patr. S.m.K.L'spur	.. Patrone Spitzgeschoss mit Stahlkern und Leuchtspur	Cartridge with pointed bullet with steel core and tracer
Patr. s.S.	..... Patrone schwer Spitzgeschoss	Cartridge with heavy pointed bullet
Patr. T.	..... Patronentasche	Cartridge pouch
Ph.	..... Phosphor	Phosphorus
Pist. Patr.	..... Pistolen Patrone	Pistol cartridge
P.K.	..... Pulverkasten	Ammunition box
Pl. Patr.	..... Platzpatrone	Blank cartridge
Pr.	..... Phosphor	Phosphorus
Pr-Geschoss	..... Phosphorgeschoß	Phosphorus bullet
P.T.	..... Pulvertemperatur	Ammunition temperature
S.	..... Spitzgeschoss	Pointed bullet
S. or s.	..... schwer	Heavy
schw.	..... schwer	Heavy
S-Gesch.	..... Spitzgeschoss	Pointed bullet
S.m.K.	..... Spitzgeschoss mit Stahlkern	Pointed bullet with steel core
S.m.K.H.	..... Spitzgeschoss mit Stahlkern Gehartet	Pointed bullet with hardened steel core
S.m.K.L'spur	..... Spitzgeschoss mit Stahlkern und Leuchtspur	Pointed bullet with steel core and tracer
St.	..... Stahl	Steel
Tp.	..... Tropen	Tropics
Ub.	..... Übung	Practice

**29. AUTHORIZED CARTRIDGES.**

a. The only cartridges which may be authorized for use in the German 7.9-mm Dual Purpose Machine Gun MG34 are listed in Table V. For precautions in handling captured ammunition, see paragraph 33. For other ammunition interchangeable with the German ammunition, see paragraph 31.

**TABLE V**  
**AUTHORIZED AMMUNITION FOR USE IN GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34<sup>1</sup>**

German Abbreviated Designation	Type Service Ammunition	Description
Patr. s.S.	Ball	Average instrumental velocity, 2,380 ft. per sec. Bullet core is of hard lead.

<sup>1</sup> Maximum range of machine gun, on antiaircraft tripod is 2,200 yards. Using the telescopic sight it is 3,800 yards.

## AMMUNITION

German Abbreviated Designation	Type	Description
—für M.G.	Ball	For machine guns only.
—i.L.	Ball	Packed in clips for use in rifles, but may be used in machine guns, if other types are not available.
Patr. S.m.K. <sup>2</sup>	Armor-piercing <sup>2</sup>	Bullet, which is longer than that of Patr. s.S., has steel core and lead jacket <sup>2</sup> .
Patr. S.m.K.H.	Super-armor-piercing.	Bullet is similar to that of Patr. S.m.K. except that bullet core is of tungsten carbide.
Patr. S.m.E.	Semi-armor-piercing.	Bullet is similar to that of Patr. S.m.K. except that bullet core is of iron or soft steel.
Patr. S.m.K.L'spur.	Armor-piercing-tracer	Germans indicate for use against aircraft only.
Patr. P.m.K.	Armor-piercing-incendiary	Germans indicate for use against aircraft only. Contains phosphorus.

### Practice Ammunition

Patr. I.S.	Ball	Similar to Patr. s.S. except that bullet core is of light metal. Has a short range.
Patr. I.S.L'spur	Ball-tracer	Similar to Patr. I.S., but has a tracer element.
B-Patr.	Observation or H.E. incendiary	Germans indicate that this is only used in peacetime for checking ranges. An observation bullet containing a smoke producer of phosphorus and percussion fuze.

## 30. TROPICAL AMMUNITION.

a. Small arms ammunition for use in the tropics is readily identified by the painted ring, 2 millimeters wide, at the junction of the bullet

<sup>2</sup> When fired from a rifle will penetrate 0.33-inch steel plate at 440 yards, and 0.39-inch steel plate at 110 yards.

### GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34

and cartridge case. The color of the ring is the same as that used on the primer to indicate the type of cartridge.

b. Containers for tropical ammunition may have the following label printed in red on white:

Für Tropen  
Normale Pulvertemperatur  
+ 25° C.

c. Tropical ammunition has a reduced weight of propellant and gives normal performance at +25° C. (77° F.). The temperature taken as normal for standard ammunition is 10° C. (50° F.).

### 31. INTERCHANGEABILITY OF AMMUNITION.

a. The 7.9-mm German cartridges, Patr. s.S., Patr. l.S., and Patr. S.m.K. types and the British 7.92-mm Besa ammunition are interchangeable for use in the German 7.9-mm Dual Purpose Machine Gun MG34. CARTRIDGE, ball, 7.92-mm (Chinese), can be used with this gun. No U. S. ammunition is authorized.

### 32. PRECAUTIONS IN HANDLING CAPTURED AMMUNITION.

a. All captured ammunition should be examined by qualified personnel as soon as practicable. Loose ammunition may be dangerous and is rarely worth the trouble of collection.

b. Ammunition may be dangerous because of:

- (1) Deliberate "booby traps" laid by the enemy.
- (2) Having been subject to fire or shelling.
- (3) Removal of safety devices from fuzes, etc. (either deliberate or accidental).
- (4) Exposure rendering explosive elements supersensitive.
- (5) Being "life-expired."

c. Ammunition known or suspected of being dangerous will not be moved or touched, but destroyed in accordance with TM 9-1900 (chapter 4).

d. Destroyed ammunition should be salvaged for brass parts. In addition, all enemy airtight containers should be returned to the base. This also applies to timber and wooden boxes for use as dunnage or for remaking ammunition boxes.

e. Personnel handling captured ammunition should keep in mind the fact that although two types of ammunition appear to have identical measurements, they are not necessarily interchangeable. Experiments to ascertain interchangeability are forbidden except by special authority.

f. No unauthorized modifications or experimentation will be carried out on any ammunition.

**INSPECTION**

**33. CARE, HANDLING, AND PRESERVATION.**

a. In addition to the precautions and care in handling given in TM 9-1900 for U. S. small arms ammunition, the following applies particularly to the German 7.9-mm ammunition.

b. The German 7.9-mm Dual Purpose Machine Gun MG34 is susceptible to malfunctioning should any foreign matter get into its mechanism. Therefore, the German ammunition must be kept clean, and in particular must be free from fine sand.

**34. FIELD REPORT OF ACCIDENTS.**

a. Any malfunctions of ammunition must be promptly reported by the ordnance officer under whose supervision the material is maintained or issued (sec. VII, AR 750-10).

**Section VIII**

**INSPECTION**

	Paragraph
General .....	35
Machine gun as a unit.....	36
Barrel casing and barrel.....	37
Bolt and spring.....	38
Belts and magazines.....	39
Mounts .....	40

**35. GENERAL.**

a. Inspect the machine gun at intervals for operation and functioning. In all such inspections, use dummy ammunition. The use of live ammunition is prohibited.

**36. MACHINE GUN AS A UNIT.**

a. Check the gun for general appearance, metal parts for scratches, rust, or wear, and the wood butt for cracks and nicks.

b. Note if the butt is firmly secured.

c. Retract the bolt and note any sluggish movement or binding. Remove the feed cover and feed block and see that the chamber is clear. Grasp the bolt handle in the retracted position and pull the trigger, allowing the bolt to go slowly forward on an empty chamber. Note any binding or sluggish movement.

d. Check the functioning of the belt feed pawls, using dummy rounds in a belt.

e. Retract the bolt and set the safety at SAFE and pull the trigger. The bolt should remain cocked.

f. Turn the safety to FIRE and pull the trigger. The bolt should move forward. Load a dummy round in the chamber and fire it. Retract the bolt and note any difficulty or failure to extract or eject.

## GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34

### 37. BARREL CASING AND BARREL.

a. Note whether front sight is properly secured. Check whether the bipod catch springs at the front and rear of barrel casing are set or broken.

b. Note if recoil booster is properly secured to the casing. If loose, tighten (the threads are right-hand).

c. Remove the barrel, hold it up to the light, and inspect the chamber and bore for wear, pits, or bulges. To facilitate inspection, place a piece of white paper in the breech end of the barrel in order to reflect light into the bore; then rotate the barrel slowly so that the light follows the circumference of the bore. If the barrel has pits or bulges, it should be turned over to ordnance maintenance personnel.

### 38. BOLT AND SPRING.

a. Examine the bolt surface for rust, roughness, or foreign matter. Inspect all notches, edges, corners, and grooves for burrs and wear.

b. Inspect firing pin point for wear and deformation.

c. Inspect the extractor and ejector for deformation or breakage.

d. Check the driving spring for kinks, fracture, and lost tension.

### 39. BELTS AND MAGAZINES.

a. **Belts.** Examine the belts for deformation or torn links. Note whether the belts are clean and free from rust.

b. **Belt Feed Drum Magazines.** Examine the 50-round belt feed drum magazines for deformation and for malfunction of the slide and cover. Deformed magazines should be turned over to ordnance maintenance personnel.

c. **Spring-operated Drum Magazines.** Examine the 75-round spring-operated drum magazines for deformation of the sides and mouth. Test the functioning of the magazine springs. Magazines with defective springs or deformed mouths should be turned over to ordnance maintenance personnel.

### 40. MOUNTS.

a. **Bipod.** Examine the bipod for rigidity of connections. Check the functioning of the thumbscrew nut between the bipod legs.

b. **Antiaircraft Tripod.** Check the elevation adjustment of the tripod by means of the leg clamps and wing nuts. Check functioning of adjustable support at the top of the tripod. Test rigidity of connections with tripod in any firing position.

c. **Tripod Mount.**

(1) Examine the erected tripod mount for rigidity of connections in any given firing position. Check functioning of the elevation

## MAINTENANCE UNDER UNUSUAL CONDITIONS

mechanism and elevation stops. Check functioning of the traversing mechanism and traverse stops.

(2) Push the cradle to the rear several times to simulate recoiling, and note whether this alternately elevates and depresses the cradle, step by step.

### Section IX

## MAINTENANCE UNDER UNUSUAL CONDITIONS

	Paragraph
General .....	41
Care in arctic climates .....	42
Care in tropical climates .....	43

### 41. GENERAL.

a. When operating under unusual conditions such as tropical or arctic climates, severe dust or sand conditions, and near salt water, the precautions listed below should be scrupulously observed.

### 42. CARE IN ARCTIC CLIMATES.

a. In temperatures below freezing, and particularly in arctic climates, it is essential that all moving parts be kept absolutely free from moisture. It has also been found that excess oil on the working parts may solidify to such an extent as to cause sluggish operation or even complete failure.

b. The machine gun should be disassembled and the chief components (fig. 55) cleaned with SOLVENT, dry-cleaning, before use in temperatures below zero F. The working surfaces of parts which show signs of wear may be lubricated by rubbing with a cloth that has been lightly oiled with OIL, lubricating, preservative, light, and wrung out. At temperatures above zero F, the machine gun may be oiled lightly after cleaning by wiping with a lightly oiled cloth, using OIL, lubricating, preservative, light.

c. The machine gun should be left exposed to the cold whenever possible because, upon bringing it into a warm room, moisture will condense on the cold metal and cause rusting. Immediately upon bringing indoors, the machine gun should be thoroughly oiled with OIL, lubricating, preservative, light. After the machine gun has reached room temperature, it should be wiped off to remove the condensed water vapor and oiled again.

d. If the machine gun has been fired, it should be thoroughly cleaned and oiled. The bore may be swabbed with an oiled patch and, when the weapon reaches room temperature, thoroughly cleaned and oiled as prescribed in paragraph 24.

e. Before firing, the machine gun should be cleaned and oil removed as prescribed in paragraph 22. The bore and chamber should be entirely free from oil before firing.

**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

**43. CARE IN TROPICAL CLIMATES.**

**a. Tropical Climates.**

(1) In tropical climates where the temperature and humidity are high, or where salt air is present, and during rainy seasons, the machine gun should be thoroughly inspected at frequent intervals and kept lightly oiled when not in use. The gun should be disassembled at regular intervals to enable the drying and oiling of parts.

(2) Care should be taken to see that the unexposed parts and surfaces are kept clean and oiled.

(3) In hot climates, use OIL, lubricating, preservative, light.

**b. Hot, Dry Climates.**

(1) In hot, dry climates where sand and dust are apt to get into the mechanism and bore, the machine gun should be wiped clean daily, or more often, if necessary. The gun should be disassembled as far as necessary to facilitate thorough cleaning.

(2) Oiling and lubrication should be kept at a minimum, as oil collects dust which acts as an abrasive on the working parts and may foul the bore and chamber. OIL, lubricating, preservative, light, is best for lubrication where temperatures are high, and should be lightly applied only to the surfaces or working parts showing signs of wear.

(3) Perspiration from the hands is usually acid and causes rust. Metal parts should therefore be wiped dry frequently.

(4) During sand or dust storms the breech and muzzle should be kept covered. The dust cover underneath the ejection opening should always be kept closed when no firing is done.

**Section X**

**GLOSSARY**

	Paragraph
General .....	44
Abbreviations, symbols, and terms .....	45

**44. GENERAL.**

a. The following abbreviations, symbols, and terms may be found on labels, communications, and literature pertaining to the German 7.9-mm Dual Purpose Machine Gun MG34.

**45. ABBREVIATIONS, SYMBOLS, AND TERMS.**

Abzug .....	Trigger
Abzugssperre .....	Full automatic trigger
B (Beobachtung) .....	Observation
Bd. G (Brandgeschoss) .....	Incendiary bullet
Behälter .....	Container

## GLOSSARY

Beob. (Beobachtung)	Observation
B-Patr. (Beobachtungsgeschoss Patrone)	Observation cartridge
Bodenstück	Base plate
Brandkerngeschoss	Incendiary bullet
D (Dauerfeuer)	Full automatic fire
Düse	Blast trap
Dreibein 34	AA Tripod 34
Einfuhrstück	Short leading belt
E (Einzelfeuer)	Single fire
Eisen	Iron
Eisenkern	Iron or soft steel core
Ex. Patr. (Exerzierpatrone)	Dummy cartridge
F (Feuer)	Fire
Feder	Spring
Feuer dampfer	Flash hider
Fliegervisier	Antiaircraft sight
Gehäuse	Receiver
G (Gewehr)	Rifle
Gelb	Yellow
Gesch. (Geschoss)	Projectile, shell, bullet
Gew. (Gewehr)	Rifle
Griffstück	Grip stock
Gurt	Belt
Gurtfuller 34	Belt filling machine 34
Gurttrommel 34	Belt drum magazine 34
Hauptladung	Propellant
Hohentrieb	Elevating mechanism
Hülse	Cartridge case
K. (Kern; Stahlkern)	Core; steel core
Kal. (Kaliber)	Caliber, gage
Karab. (Karabiner)	Carbine
Kartusche	Cartridge
Kartuschhülse	Cartridge case
Kartuschkorb	Ammunition basket
Kern	Core
Kolben	Butt stock
Korn	Front sight
Kugel	Bullet
Kugelpatrone	Ball Cartridge
Kupfer	Copper
l. (leicht)	Light
l.M.G. (leichtes Maschinengewehr)	Light machine gun
L'spur (Leuchtspur)	Tracer



**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

Lafette 34	Tripod mount 34
Lafettenaufsatzstück	Tripod mount AA adapter
Lauf	Barrel
Laufbehälter 34	Barrel container 34
Leuchtpatrone	Tracer cartridge
Leuchtsatz	Tracer composition
Leuchtspurpatrone	Tracer cartridge
Leuchtspurgeschoss	Tracer bullet
Leuchtspurmunition	Tracer ammunition
Mantel	Barrel casing; jacket
Messing	Brass
M.G. (Maschinengewehr)	Machine gun
Mun. (Munition)	Ammunition
P. (Phosphor)	Phosphorus
Panzergeschoss	Armor-piercing bullet
Patr. (Patronenhülse)	Cartridge case
Patr. I.S. (Patrone leichte Spitzgeschoss)	Cartridge with light, pointed bullet
Patr. I.S.L'spur (Patrone leichte Spitzgeschoss mit Leuchtspur)	Cartridge with light, pointed bullet with tracer
Patr. T. (Patronentasche)	Cartridge pouch
Patronengurt	Cartridge belt
Patronenhülse	Cartridge case
Patronentrommel 34	Magazine 34
Patr. P.m.K. (Patrone Phosphor mit Stahlkern)	Cartridge with phosphorus with steel core
Patr. S.m.E. (Patrone Spitzgeschoss mit Eisenkern)	Cartridge with pointed bullet with iron core
Patr. S.m.K. (Patrone Spitzgeschoss mit Stahlkern)	Cartridge with pointed bullet with steel core
Patr. S.m.K.H. (Patrone Spitzgeschoss mit Stahlkern Gehartet)	Cartridge with pointed bullet with hardened steel core
Patr. S.ml.K.L'spur (Patrone Spitzgeschoss mit Stahlkern und Leuchtspur)	Cartridge with pointed bullet with steel core and tracer
Patr. S.S. (Patrone schwer Spitzgeschoss)	Cartridge with heavy pointed bullet
Patr. T. (Patronentasche)	Cartridge pouch
Ph. (Phosphor)	Phosphorus

## GLOSSARY

Pist. Patr. (Pistolen Patrone)	Pistol cartridge
P.K. (Pulverkasten)	Powder box
Pl. Patr. (Platzpatrone)	Blank cartridge
Pr. (Phosphor)	Phosphorus
Pr-Geschoss (Phosphorgeschoß)	Phosphorus bullet
P.T. (Pulvertemperatur)	Ammunition temperature
Puffer	Buffer
Pulver	Powder
Pulverkasten	Powder box
Pulverladung	Powder charge
Pulvertreibladung	Propelling charge
Rauchloses Pulver	Smokeless powder
Rauchschwaches Pulver	Smokeless powder
Richtvorrichtung	Laying mechanism
Rot	Red
Rückstossverstärker	Recoil booster
S (Sicherung, Sicher)	Safety
S. (Spitzgeschoss)	Pointed bullet
s. or S. (schwer)	Heavy
S.M.G. (schweres maschinengewehr)	Heavy machine gun
Schlagbolzen	Firing pin
Schliessfeder	Driving spring
Schutzdeckel	Dust cover
Schw. (schwer)	Heavy
Seitenhebel	Traversing lever
S-Gesch. (Spitzgeschoss)	Pointed bullet
S.m.K. (Spitzgeschoss mit Stahlkern)	Pointed bullet with steel core
S.m.K.H. (Spitzgeschoss mit Stahlkern Gehartet)	Pointed bullet with hardened steel core
S.m.K.L'spur (Spitzgeschoss mit Stahlkern und Leuchtspur)	Pointed bullet with steel core and tracer
Spannschieber	Cocking handle
Spitze	Point
St. or S (Stahl)	Steel
Stahlgeschoss	Steel bullet
Stahlkern	Steel core
Stahlkerngeschoss	Steel-core bullet; armor-piercing bullet
Stahlmantel	Steel jacket
Teile	Components
Tiefenfeuereiriichtung	Searching fire mechanism
Träger	Carrier
Trägrriemen	Sling
Treibladung	Propelling charge

**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

Trommelfuller 34 .....	Magazine filling machine 34
Trommelhalter .....	Magazine holder
Versager .....	Misfire
Verschluss .....	Breech mechanism
Visier .....	Sight
Zieleurichtung .....	Sighting mechanism
Zuführer .....	Belt pawl
Zuführerdeckel .....	Feed cover
Zweibein .....	Bipod
Zwischenstück .....	Extension belt

**Section XI**

**REFERENCES**

Standard nomenclature lists .....	Paragraph 46
Explanatory publications .....	47

**46. STANDARD NOMENCLATURE LISTS.**

**a. Maintenance.**

Cleaning, preserving, and lubricating materials; recoil fluids, special oils, and miscellaneous related items .....	SNL K-1
Soldering, brazing, and welding material, gases and related items .....	SNL K-2

Current Standard Nomenclature Lists are as tabulated here. An up-to-date list of SNL's is maintained as the "Ordnance Publications for Supply Index," now published in. . . . . OFSB 1-1

**47. EXPLANATORY PUBLICATIONS.**

**a. Ammunition, general** . . . . . TM 9-1900

**b. Maintenance.**

Chemical decontamination materials and equipment .....	TM 3-220
Cleaning, preserving, lubricating, and welding materials and similar items issued by the Ordnance Department .....	TM 9-850
Decontamination .....	TC 38, 1941
Defense against chemical attack .....	FM 21-40
Military chemistry and chemical agents .....	TM 3-215

**c. Miscellaneous.**

Range regulations for firing ammunition for training and target practice .....	AR 750-10
Qualifications in arms and ammunition training allowances .....	AR 775-10

## INDEX

<b>A</b>		Page No.	Page No.	
Abbreviations, symbols, and terms		59-60, 66-70	Charging barrels	35-36
<b>Ammunition</b>			Characteristics of dual purpose machine gun	4
authorized cartridges		60-61	Classification of ammunition	53
care and preservation		63	Cleaning machine gun received from storage	49
classification		53	Color markings on ammunition	58
interchangeability		62		
field report of accidents		63	<b>D</b>	
identification		53-60	Data on machine gun	4
precautions in handling captured ammunition		62	Disassembly of dual purpose machine gun	44-47
tropical ammunition		61-62		
Antiaircraft tripod, inspection		64	<b>E</b>	
Arctic climates, care of materiel in		65	Elevation and traverse	26-31
Assembly of dual purpose machine gun		47		
Authorized cartridges		60-61	<b>F</b>	
Automatic fire		24, 26	Feed cover and feed block, disassembly	44
			Field report of ammunition accidents	63
<b>B</b>			Firing the machine gun	
Barrel			on bipod, antiaircraft tripod, or tripod mount attachment	24
inspection		64	on tripod mount	24-31
removal		46	metric and English units	31
Barrel casing			Flash eliminator and blast trap, disassembly	47
disassembly		47		
inspection		64	<b>G</b>	
Belt drum magazine, 50-round, filling		13	Gun, machine, dual purpose, German, 7.9-mm, MG34	
Belt feed drum magazine, inspection		64	ammunition	52-63
Belts and magazines, inspection		64	care and preservation	49-52
Bolt and cocking handle, disassembly		46	characteristics	4
Bolt and spring, inspection		64	data	4
Bore, care and preservation		49	disassembly and assembly	43-47
Buffer housing, disassembly		46	inspection	63-65
Butt stock, disassembly		44	maintenance under unusual conditions	65-66
			malfunctions and corrections	40-42
<b>C</b>			operation	10-36
Care and preservation			sighting equipment	37-40
ammunition		63		
care after firing		51	<b>I</b>	
care in garrison and camp		49-50	Identification of ammunition	
care on range and in the field		50-51	abbreviation	59-60
care preparatory to firing		50	carton labels	53-56
cleaning machine gun received from storage		49	marking on cartridges	58
preparation for storage		51-52		

**GERMAN 7.9-MM DUAL PURPOSE MACHINE GUN MG34**

<b>I—Cont'd</b>		Page No.			Page No.
<b>Inspection</b>			loading the machine gun	15-23	
barrel casing and barrel	63	mounting the machine gun	10-13		
belts and magazine	64	unloading	32-34		
bolt and spring	64	<b>P</b>			
machine gun as a unit	63	Precautions in handling captured			
mounts	64-65	ammunition		62	
Interchangeability of ammunition	62	<b>S</b>			
<b>L</b>			Service ammunition	53	
<b>Loading the machine gun:</b>			Single fire	24	
with 50-round belt drum maga-		Spring-operated 75-round drum			
zine	21-23	magazine			
with 75-round spring-operated		filling	15		
drum magazine	23	inspection	64		
with the belt	15-21	<b>T</b>			
<b>M</b>			Telescopic sight for 7.9-mm dual		
<b>Maintenance under unusual con-</b>			purpose machine gun		
ditions			MG34		
care in arctic climates	65	operation			
care in tropical climates	66	direct fire	39-40		
<b>Malfunctions and corrections</b>			indirect fire	40	
immediate action	40-41	Trigger housing, disassembly	47		
malfunctions	41-42	Tripod mount, inspection	64-65		
<b>Metal surfaces, care and preserva-</b>			Tropical ammunition	61-62	
tion	50		Tropical climates, care of materiel		
<b>Metric and English units</b>			in	66	
Mounting machine gun:	31	<b>U</b>			
on antiaircraft adapter of tripod		Unloading the machine gun, re-			
mount	13	moval			
on antiaircraft tripod	12	belt	32		
on bipod	10-12	50-round belt drum magazine	32		
on tripod mount	12-13	75-round spring-operated drum			
<b>O</b>		magazine	34		
<b>Operation</b>		<b>W</b>			
changing barrel	35-36	Wood surfaces, care and preserva-			
dismounting the machine gun	13	tion		50	
filling the belts and magazine	13-15				
firing the machine gun	23-31				