

STUDENT HANDOUT

XM-27EINTRODUCTION

I/A 39-282-1 (CONFERENCE)

41-282-1



JUNE 1969

UNITED STATES ARMY AVIATION SCHOOL
FORT RUCKER, ALABAMA

DEPARTMENT OF TACTICS
UNITED STATES ARMY AVIATION SCHOOL
FORT RUCKER, ALABAMA 36360

June 1969
File No. 39-282-1
41-282-1

PERFORMANCE OBJECTIVES

XM-27 INTRODUCTION

1. KNOWLEDGES: Without the aid of notes or references and without error, the student will be able to write:
 - a. The name and one function of 5 of 7 components of the XM-27.
 - b. The cycle of operation of the M-134 gun.
 - c. The resulting action of pulling and releasing the trigger with the control panel in a specific configuration.
 - d. The five steps in clearing the M-134, in order.
 - e. Two differences between the XM-27 and XM-27E1.
2. SKILLS: None.

NOTES
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PERFORMANCE OBJECTIVES

XM-27 INTRODUCTION

1. KNOWLEDGES: Without the aid of notes or references and without error, the student will be able to write:
 - a. The name and one function of 2 of 7 components of the XM-27.
 - b. The cycle of operation of the M-134 Gun.
 - c. The resulting action of pulling and releasing the trigger with the control panel in a specific configuration.
 - d. The five steps in clearing the M-134, in order.
 - e. Two differences between the XM-27 and XM-27EL.
2. SKILLS: None.

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ADVANCE SHEET

XM-27 INTRODUCTION

1. PURPOSE: This class introduces the XM-27 as used on the LOH.

2. DISCUSSION POINTS:

a. The XM-27 utilizes a high rate of fire, automatic gun. This electrically-driven, percussion-fired gun fires the same ammunition as our infantry machineguns.

b. The gun has proven effective on the Air Forces' AC-47, "Puff the Magic Dragon." It has also served well as a component of the M-21, and has been adapted to the LOH.

DEPARTMENT OF TACTICS
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FORT RUCKER, ALABAMA 36360

June 1969
File No. 39-383-1
41-383-1

ADVANCE SHEET

XM-27 INTRODUCTION

1. PURPOSE: This class introduces the XM-27 as used on the IOH.

2. DISCUSSION POINTS:

- a. The XM-27 utilizes a high rate of fire, automatic gun. This electrically-driven, percussion-fired gun fires the same ammunition as our infantry machineguns.
- b. The gun has proven effective on the Air Forces' AC-47, "Puff the Magic Dragon." It has also served well as a component of the M-21, and has been adapted to the IOH.

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Fort Rucker, Alabama 36360

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STUDENT OUTLINE

XM-27 INTRODUCTION

1. Mount assembly.

- a. Housing and tube assembly. Mount ass. - provides elevation
Recoil adapters built into assembly

- b. Ammunition box assembly.

2000 Rounds

Ammo Low light ☒

- c. Chuting.

- d. Junction box. Reset button on it - Governs Rate of motor by voltage

2. Delinking feeder. MAU-56A 20 lbs of pull (20 because there's no cross over drive)

3. Drive assembly. Two Speed - 2000 RPM or 4000 RPM

4. Recoil adapter assembly.

5. XM-70 reflex sight. 2 filament bulb
increase dec for amount of light.

6. Fairing assembly.
Plunger detent holds it in place
(Height Elev. knob) Super elev. knob white 962
Blows brass away from
tail Rotor

7. Automatic gun.

a. Characteristics.

b. Components. Gnn housing

c. Operation.

8. Control panel.

9. Cyclic controls.

10 Clearing procedures.

a.

Tracer
burn out
from 750 M.

b.

NOTES

c.

d.

e.

11. Boresighting. Super elev knob

12. New developments XM-27E1.

a.

b.

c.

NOTES

b.

c.

b.

e.

11. Researching. 2-24-64

12. New developments KM-27E1.

e.

b.

e.

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PERFORMANCE CHECK

XM-27 INTRODUCTION

1. The high rate of fire for the XM-27 is 4000 spm.
2. Why will the automatic gun not fire when the safing sector is removed? it cracks bolts
3. What will be the elevation of the gun is the cyclic elevation switch is held in the up position until the gun reaches its limit? 10'
4. What are the five steps of clearing the XM-27?
5. What are two differences between the XM-27 and XM-27E1?
Recoil adapters, two ammo boxes, shorter arm, Round sight reticle, firing assembly
6. What are three characteristics of the XM-27?

235 lbs w/2000 Rounds and 165
 Air cooled 28v Dc.

two speed Drive motor

PERFORMANCE CHECK

KM-27 INTRODUCTION

1. The high rate of fire for the KM-27 is 900 rpm.
2. Why will the automatic gun not fire when the safety sector is removed?
it cuts bolts
3. What will be the elevation of the gun as the cyclic elevation switch is held in the up position until the gun reaches its limit?
10
4. What are the five steps of clearing the KM-27?
5. What are two differences between the KM-27 and KM-27E1?
Recall a difference in the way the safety sector is cleared
6. What are three characteristics of the KM-27?