

STUDENT HANDOUT

XM-27 INTRODUCTION

I/A 39-282-I (CONFERENCE)

41-282-I



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-27El.
2. SKILLS: None.

NOTES - **DEPARTMENT OF TACTICS**
UNITED STATES ARMY AVIATION SCHOOL
PORT RICHEY, FLORIDA 34660

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

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

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 DEFENSE
UNITED STATES ARMY AVIATION SCHOOL
PORT RICHEY, ALABAMA 36360

June 1968
File No. 34-285-1
41-285-1

ADVANCE SHEET

XW-52 INTRODUCTION

1. PURPOSE: Type class introduction type XW-52 as used on the TOH.
2. DISCUSSION POINTS:
 - a. Type XW-52 utilizes a triple set of title, subtitle and subtitle-division, because each title has the same punctuation as and identical markings.
 - b. Type XW-52 has been effective on the AFM Forces, AG-42, "But the Major Decoy". It has also been used as a component of the XW-51, and has been adopted to the TOH.

DEPARTMENT OF TACTICS
UNITED STATES ARMY AVIATION SCHOOL
Fort Rucker, Alabama 36360

June 1969

File No. 39-282-1

41-282-1

STUDENT OUTLINE

XM-27E INTRODUCTION

1. Mount assembly.

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

Elev. +10
-24

b. Ammunition box assembly. 2000 Rounds
Ammo low light $\frac{1}{2}$

c. Chuting.

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

2. Delinking feeder. 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.

DEPARTMENT OF DEFENSE
UNITED STATES ARMY AVIATION SCHOOL
Poste Becker, Alipasas 36360

5. XM-70 ^{Take 1960} reflex sight. 2 filament bulb

I-5851 increase dec for amount of light.

plunger detent holds it in place

(Height Elev. Knob) Super elev. Knob white 162

6. Fairing assembly.

Blows brass away ^{NO CONNECTION} from tail Rotor

7. Mount assembly.

7. Automatic gun.

a. Characteristics.

b. Components. Gun housing

c. Operation.

c. Capacities.

8. Control panel.

9. Cyclic controls.

10. Clearing procedures.

a.

11. Gun mount to M19 3000 - hang out.

b.

STOM

c.

d.

e.

11. Boresighting. Super elev knob

12. New developments XM-27El.

a.

b.

c.

NOTES

11. Botanicals, 2nd stage, 1959

12. New developments KMS-7

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

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

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, Roundsight reticle, fairing assembly
6. What are three characteristics of the XM-27?

DEPARTMENTAL NOTES

23516sw/2000 Round
UNITED STATES ARMY V-59108 SCH
PORT HICKER, ALABAMA 36380
Air cooled 28v DC.
Tune 1962
36-285-1
41-185-1
1000 ft/min speed two drive motor

PERFORMANCE CHECKXW-52 INTRODUCTION

1. The right rate of fire for the XM-52 is ~~1000~~ 1500 rpm

2. What will the accuracy be for the man to hit a target at ~~1000~~ 1500 ft? ~~1000 ft~~

3. What will be the advantages of the gun in the choice of salvos

4. What are the two bases of classifying the XM-52?

5. What are the two differences between the XM-52 and XM-52E1?

~~6. What are the two differences between the XM-52 and XM-52E1?~~

6. What are the three characteristics of the XM-52?