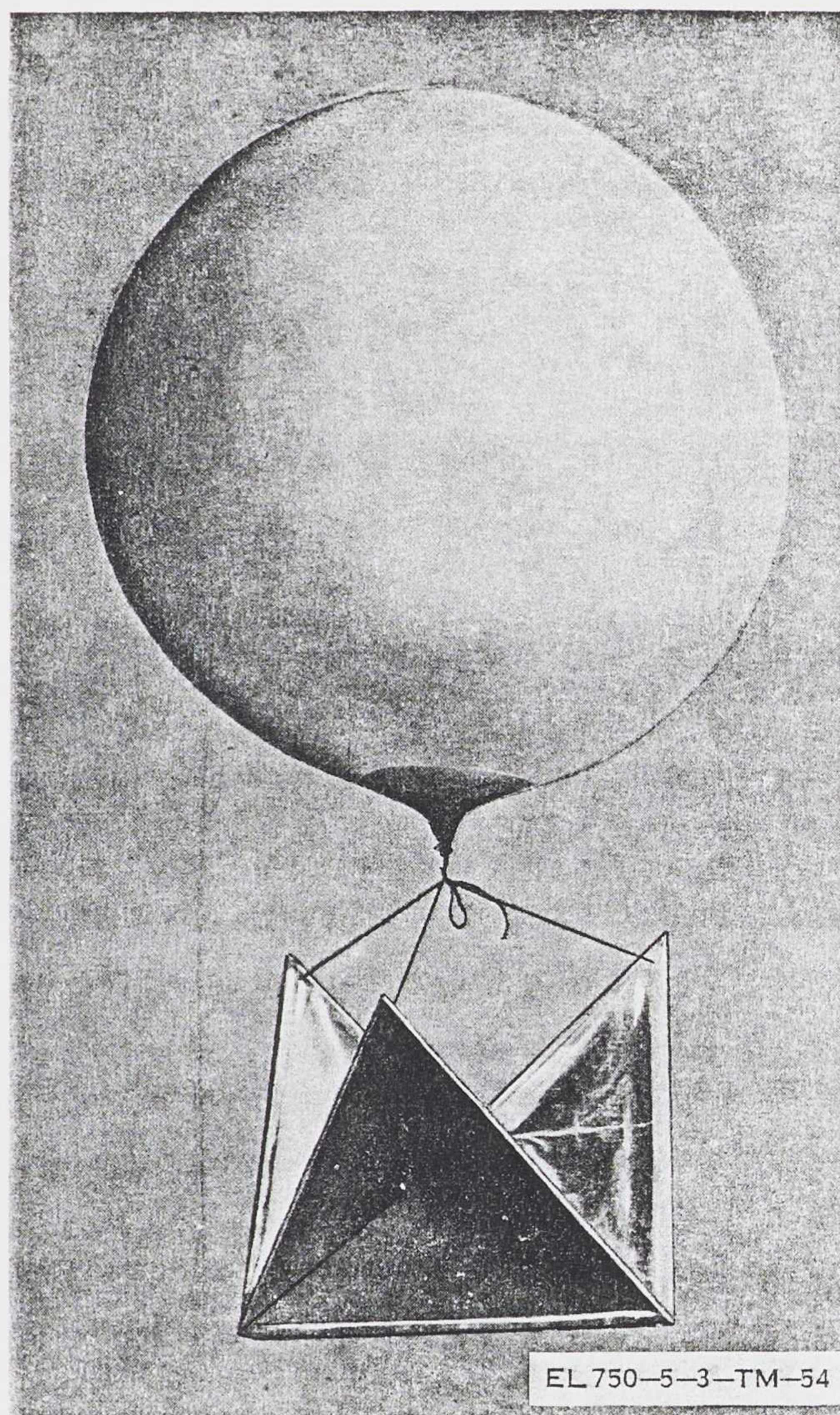




EL 750-5-3-TM-54

Figure 54. Pilot Balloon Target ML-307/AP.

1. **NOMENCLATURE:** Pilot Balloon Target ML-307/AP.
2. **TYPE CLASSIFICATION:** Standard A.
3. **SECURITY REQUIREMENTS:** Unclassified.
4. **PRIMARY USE OR CONCEPT OF EMPLOYMENT:**
Used to assist in radar tracking of pilot balloons.

5. BRIEF FUNCTIONAL DESCRIPTION:

Pilot Balloon Target ML-307/AP is a collapsible radar reflector which is attached to a pilot balloon to assist in tracking the balloon. The ML-307/AP is used with available radar equipment to determine upper wind direction and upper wind velocity. Pilot Balloon Target ML-307/AP is made of aluminum foil with wooden reinforcements to prevent collapse aloft and consists of a square plane with fins mounted on top.

6. TECHNICAL CHARACTERISTICS:

Construction----- Triangular shaped, aluminum foil backed on balsa frame.
Dimensions-----: 50 in. long, 50 in. wide, 37 in. high.
Approximate weight--- 100 g.

7. MAJOR COMPONENT:

Pilot Balloon Target ML-307/AP.

8. SET, SYSTEM, FACILITY, AND CONFIGURATION APPLICATIONS:

This unit is used in a system with available radar equipment and pilot balloons.

9. ADDITIONAL EQUIPMENT REQUIRED AND AUXILIARY EQUIPMENT:

a. Additional Equipment.

Radar equipment.

Pilot Balloon ML-159, ML-160, ML-161, and Pilot Balloon Target ML-306/AP.

b. Auxiliary Equipment.. None.

10. TOOLS AND TEST EQUIPMENT: None.

11. REFERENCE DATA AND LITERATURE:

TM 11-6660-218-12, -25P-- AN/TMQ-4

12. REPAIR PARTS SUPPORT CAPABILITY:

No density.

13. TRAINING REQUIREMENTS:

Operator MOS 93-F-20.

14. TYPICAL BASIS OF ISSUE.

15. PRICE DATA:

a. Major item----- \$0.24
b. Repair parts (1-year cost based on 100 equipments). Expendable, nonrepairable.

16. ITEM REPLACED: None.

17. REMARKS:

Issued as a replacement unit.

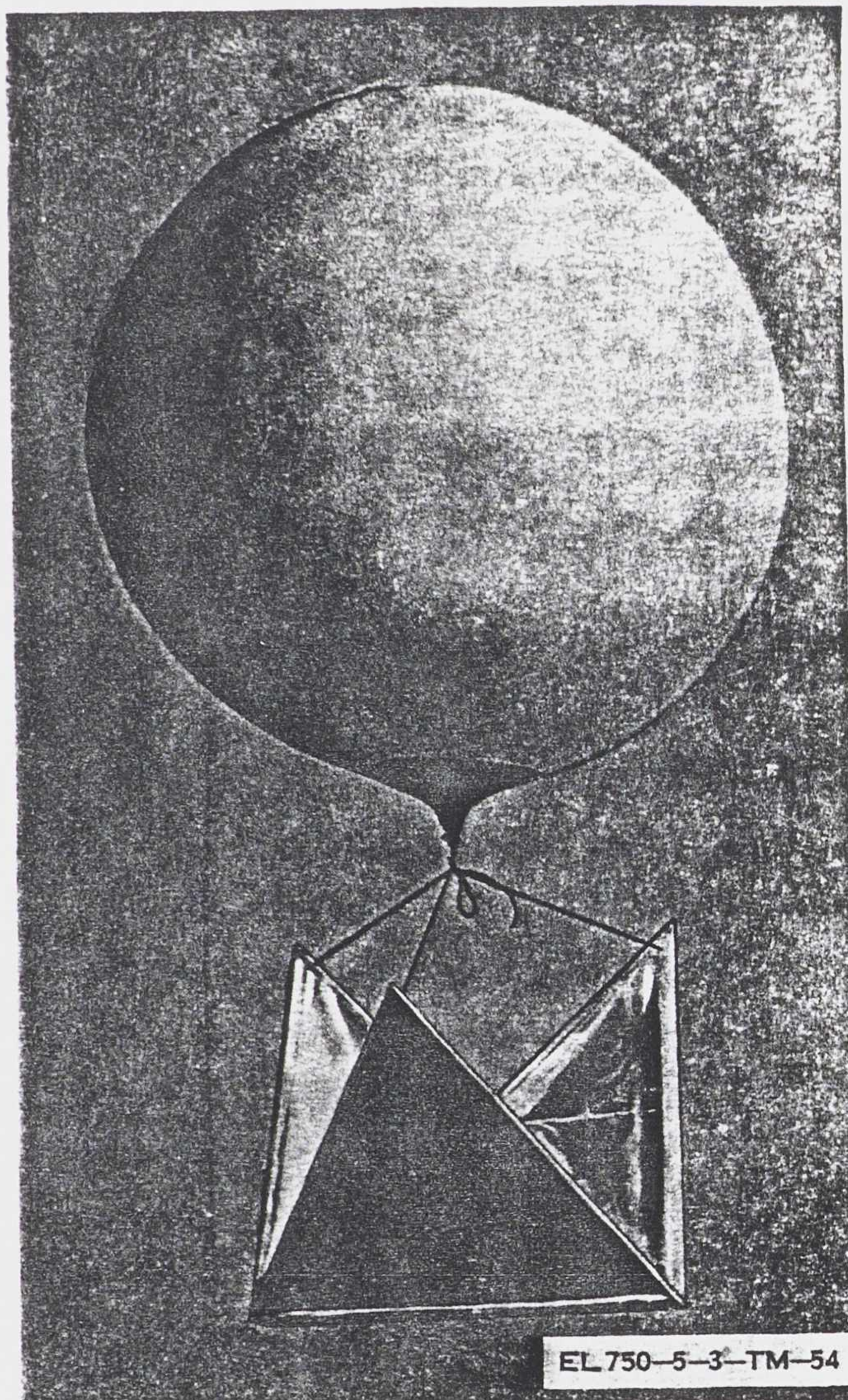


Figure 54. Pilot Balloon Target ML-307/AP.

1. **NOMENCLATURE:** Pilot Balloon Target ML-307/AP.
2. **TYPE CLASSIFICATION:** Standard A.
3. **SECURITY REQUIREMENTS:** Unclassified.
4. **PRIMARY USE OR CONCEPT OF EMPLOYMENT:**
Used to assist in radar tracking of pilot balloons.

5. BRIEF FUNCTIONAL DESCRIPTION:

Pilot Balloon Target ML-307/AP is a collapsible radar reflector which is attached to a pilot balloon to assist in tracking the balloon. The ML-307/AP is used with available radar equipment to determine upper wind direction and upper wind velocity. Pilot Balloon Target ML-307/AP is made of aluminum foil with wooden reinforcements to prevent collapse aloft and consists of a square plane with fins mounted on top.

6. TECHNICAL CHARACTERISTICS:

Construction..... Triangular shaped, aluminum foil backed on balsa frame.
Dimensions.....: 50 in. long, 50 in. wide, 3 in. high.
Approximate weight... 100 g.

7. MAJOR COMPONENT:

Pilot Balloon Target ML-307/AP.

8. SET, SYSTEM, FACILITY, AND CONFIGURATION APPLICATIONS:

This unit is used in a system with available radar equipment and pilot balloons.

9. ADDITIONAL EQUIPMENT REQUIRED AND AUXILIARY EQUIPMENT:

a. Additional Equipment.

Radar equipment.

Pilot Balloon ML-159, ML-160, ML-161, and Pilot Balloon Target ML-306/AP.

b. Auxiliary Equipment.. None.

10. TOOLS AND TEST EQUIPMENT: None.

11. REFERENCE DATA AND LITERATURE: TM 11-6660-218-12, -25P.. AN/TMQ-4

12. REPAIR PARTS SUPPORT CAPABILITY: No density.

13. TRAINING REQUIREMENTS: Operator MOS 93-F-20.

14. TYPICAL BASIS OF ISSUE.

15. PRICE DATA:

a. Major item.....	\$0.24
b. Repair parts (1-year cost based on 100 equipments).	Expendable, nonrepairable.

16. ITEM REPLACED: None.

17. REMARKS: Issued as a replacement unit.

COMMANDANT:

US ARMY FIELD ARTILLERY SCHOOL

ATTN ATSF-TA/SS ATTN: (SFC Newton)

FORT SILL OK 73503-5600



LT James McAndrew
CENTER FOR AIR FORCE HISTORY
170 LUKE AVENUE SUITE 400
BOLLING AIR FORCE BASE
WASHINGTON DC 20332-5113

