

**MIL-T-9874A**

25 FEBRUARY 1963

SUPERSEDING MIL-T-9874(USAF)

29 FEBRUARY 1960

**MILITARY SPECIFICATION****TRAINING AND KITS, MARKSMANSHIP, SMALL  
ARMS WEAPONS, A/E 29U-T1**

*This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.*

**1. SCOPE**

1.1 This specification covers the requirements for training aids required for marksmanship training relative to small arms weapons.

**2. APPLICABLE DOCUMENTS**

2.1 The following documents of the issue in effect on date of invitation for bids, form a part of this specification to the extent specified herein:

**SPECIFICATIONS****FEDERAL**

MM-L-736	—Lumber and Timber, Hardwood
MM-L-751	—Lumber and Timber, Softwood
NN-P-530	—Plywood, Flat Panel
QQ-A-355	—Aluminum Alloy, Plate and Sheet (2024)
QQ-A-359	—Aluminum Alloy, Plate and Sheet
QQ-W-423	—Wire, Steel, Corrosion Resistant
TT-P-25	—Primer, Paint Exterior Undercoat for Wood, Ready Mixed, White and Tints
TT-P-31	—Paint, Iron-Oxide, Ready Mixed, Red Brown

TT-P-666A —Zinc, Yellow for Aluminum and Magnesium

**MILITARY**

MIL-E-5556 —Enamel, Camouflage, Quick Drying  
MIL-S-7947 —Steel, Sheet and Strip (1095)  
MIL-S-7952 —Steel, Sheet and Strip, Uncoated, Carbon (1020) and (1025)

**STANDARDS****MILITARY**

MIL-STD-129 —Marking for Shipment and Storage

**AIR FORCE—NAVY AERONAUTICAL**

AN 350 —Wing Nut  
AN 550 —Screw, Wood, Flathead 82°  
AN 970 —Washer  
AN 115527 —Flat Fillisterhead Screw  
AN 115471 —Flat Fillisterhead Screw  
AN 115481 —Flat Fillisterhead Screw  
AN 115482 —Flat Fillisterhead Screw

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

**MIL-T-9874A****3. REQUIREMENTS**

**3.1 Commercial Parts.** Commercial parts, having suitable properties, may be used where, on the date of invitation for bids, there are no suitable standard parts. In any case, commercial utility parts such as screws, bolts, nuts, and cotter pins, having suitable properties, may be used provided they can be replaced by standard parts (MS or AN) without alterations.

**3.2 Components.** The items covered by this specification shall consist of the following components and shall be assembled in kits as indicated below:

<i>Description</i>	<i>Quantity Per Kit</i>
<b>Kit A:</b>	
1. Target Stand (for pistol and rifle) (Fig 1 & 1a)	1 each
<b>Kit B:</b>	
1. Pistol Rest Stand (Fig 2)	1 each
2. Target (pistol) (Fig 3)	1 each
3. Front and Rear Sight (pistol) (Fig 4)	1 set
4. Pistol Sling Shot Device (Fig 5)	1 each
5. Pistol Aiming Disc (Fig 6)	1 each
6. Sighting and Aiming Bar (Fig 7, 7a, & 7b)	6 each
7. Heel and Jerk Plates (pistol) (Fig 4)	1 set
8. GTA 9-617, Pistol, Automatic, Caliber .45, M1911A1, Disassembly Mat	25 each
9. GTA 9-620, Pistol, Automatic, Caliber .45, M1911, Safety Lock Mechanism	1 each
10. GTA 9-621, Pistol, Automatic, Caliber .45, M1911A1, Function of Grip Safety	1 each
11. GTA 9-622, Pistol, Automatic, Caliber .45, M1911, M1911A1, Firing Mechanism	1 each
12. Cartridge, Caliber .45, Dummy Ammunition	20 each
13. Magnetic Spotters (Fig 4)	20 each
<b>Kit C:</b>	
1. Target (rifle) (Fig 8)	1 each
2. Front and Rear Sight (rifle) (Fig 9)	1 set
3. Rifle Aiming Disc (Fig 6)	1 each
4. Sighting and Aiming Bar (Fig 7, 7a, & 7b)	6 each
5. GTA 9-601, Carbine, Caliber .30 M2	1 each
6. GTA 9-603, U.S. Rifle, Caliber .30 M1 Mechanical Training	1 each
7. GTA 9-616, Rifle, U.S. Caliber .30 M1 Disassembly Mat	10 each
8. Cartridge, Caliber .30 Carbine, Dummy Ammunition	20 each
9. Cartridge, Caliber .30 M1 Dummy Ammunition	20 each
10. Magnetic Spotters (Fig 9)	20 each

**3.3 Design and Construction.**

**3.3.1 Construction** of the components shall be in accordance with the instructions specified in the illustrations (Fig 1 through 9) contained in this specification. They shall be built to withstand the strains, jars, and other conditions incident to shipping, storage, and service.

**3.3.2 Workmanship.** Construction and finish shall be consistent with the best workmanship practices. Particular attention shall be given to square construction, straight cuts, and freedom from excessively sharp edges. Dimensions and tolerances not specified shall be as close as is consistent with the best workmanship practices.

**3.3.3 Painting.** A minimum of one coat of one coat of primer and two coats of finish paint shall be applied where painting is specified.

**3.3.4 Government Furnished Property.** The following components will be furnished by the Government for inclusion in the applicable kits:

<i>Item Number</i>	<i>Item Description</i>
<b>Kit B:</b>	
1. GTA 9-617	Pistol, Automatic, Caliber .45, M1911A1, Disassembly Mat
2. GTA 9-620	Pistol, Automatic, Caliber .45, M1911 Safety Lock Mechanism
3. GTA 9-621	Pistol, Automatic, Caliber .45, M1911A1, Function of Grip Safety
4. GTA 9-622	Pistol, Automatic, Caliber .45
5. Cartridges	Caliber, .45, Dummy Ammunition

<b>Kit C:</b>	
1. GTA 9-601	Carbine, Caliber .30 M2
2. GTA 9-603	U.S. Rifle, Caliber .30 M1
3. GTA 9-616	Rifle, U.S. Caliber .30 M1, Disassembly Mat
4. Cartridge	Caliber .30 Carbine, Dummy Ammunition
5. Cartridge	Caliber .30 M1, Dummy Ammunition

**4. QUALITY ASSURANCE PROVISIONS**

**4.1** Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein.

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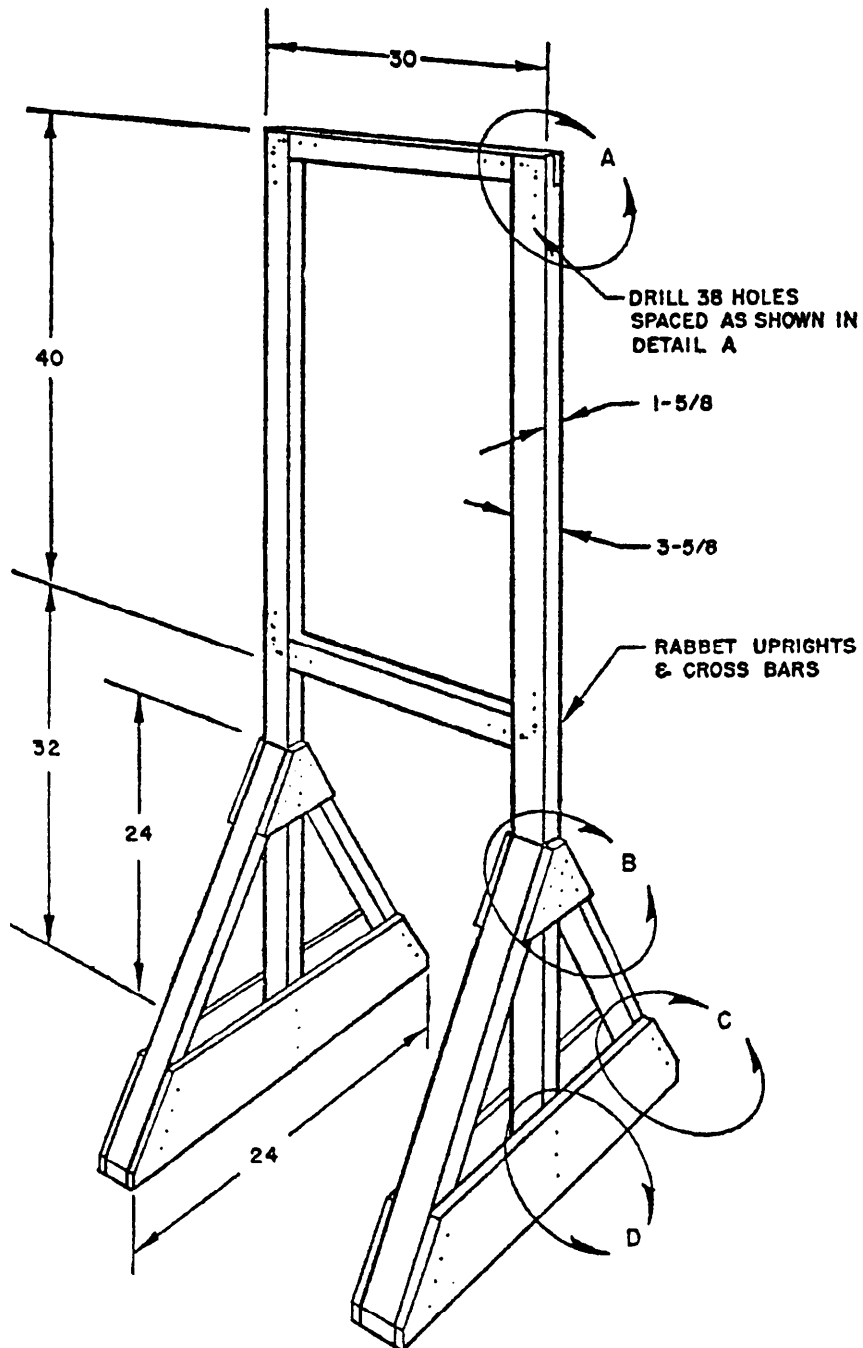


FIGURE 1. Target stand (for pistol & rifle)

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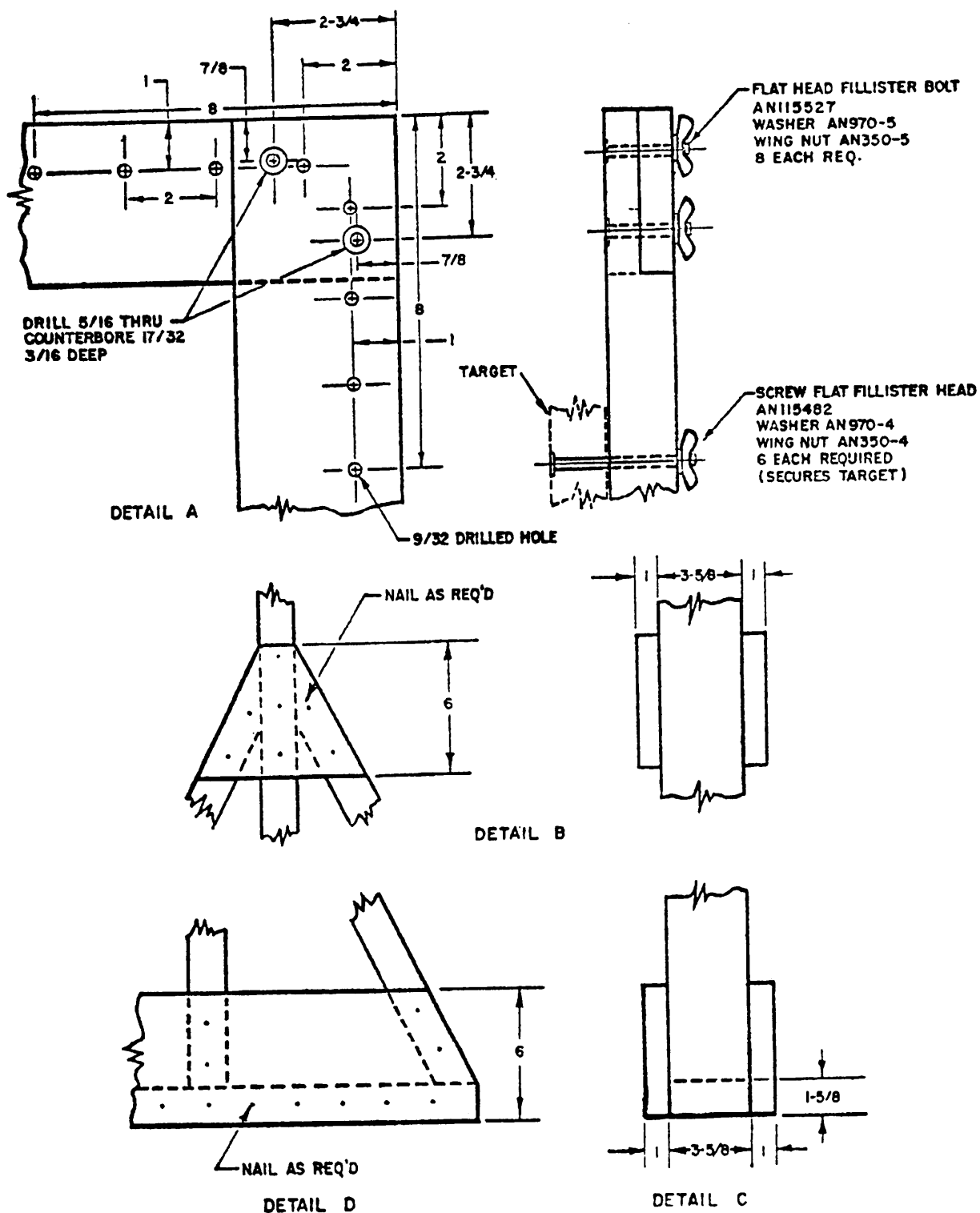
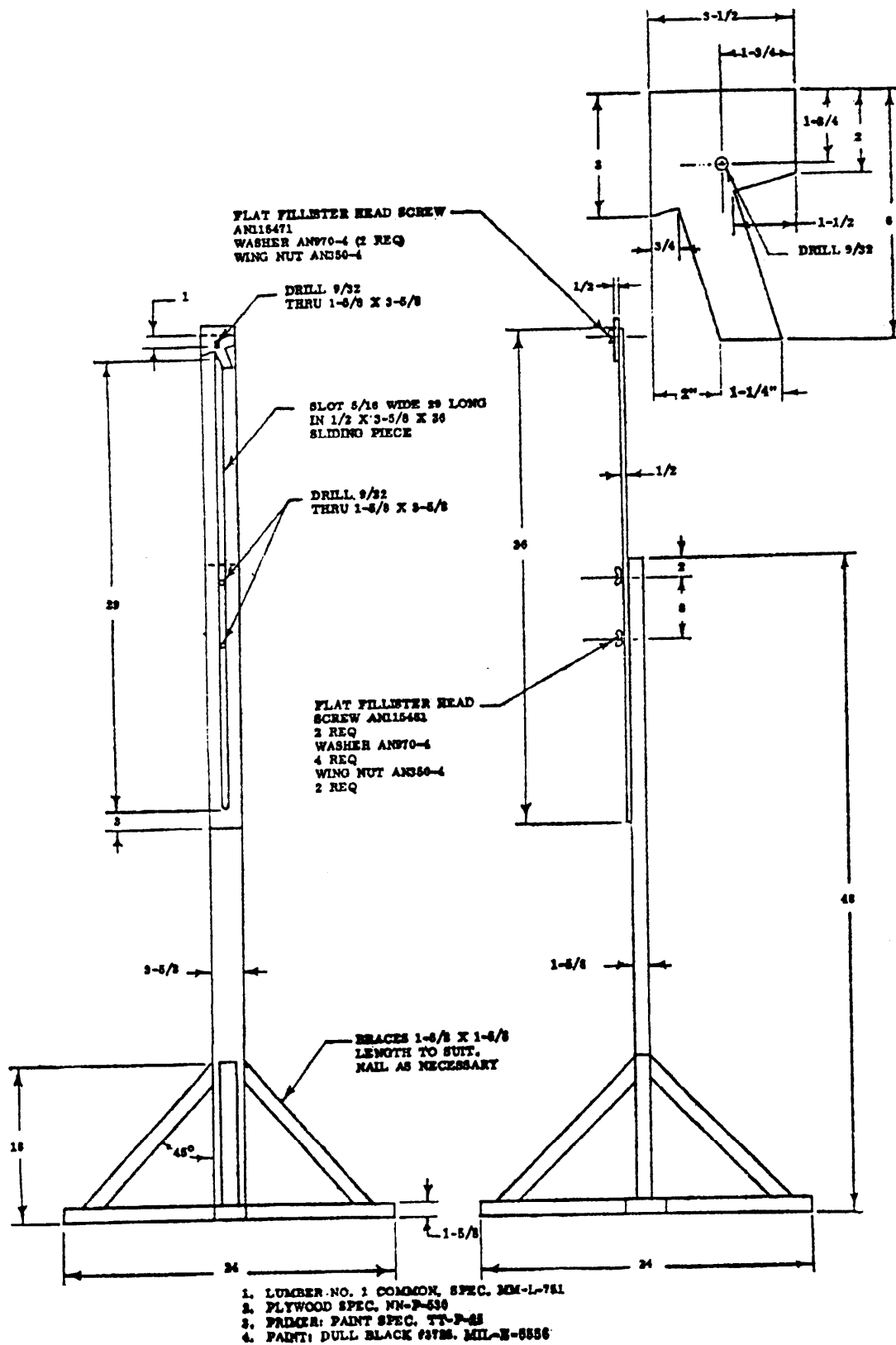


FIGURE 1A. Target stand (for pistol & rifle)

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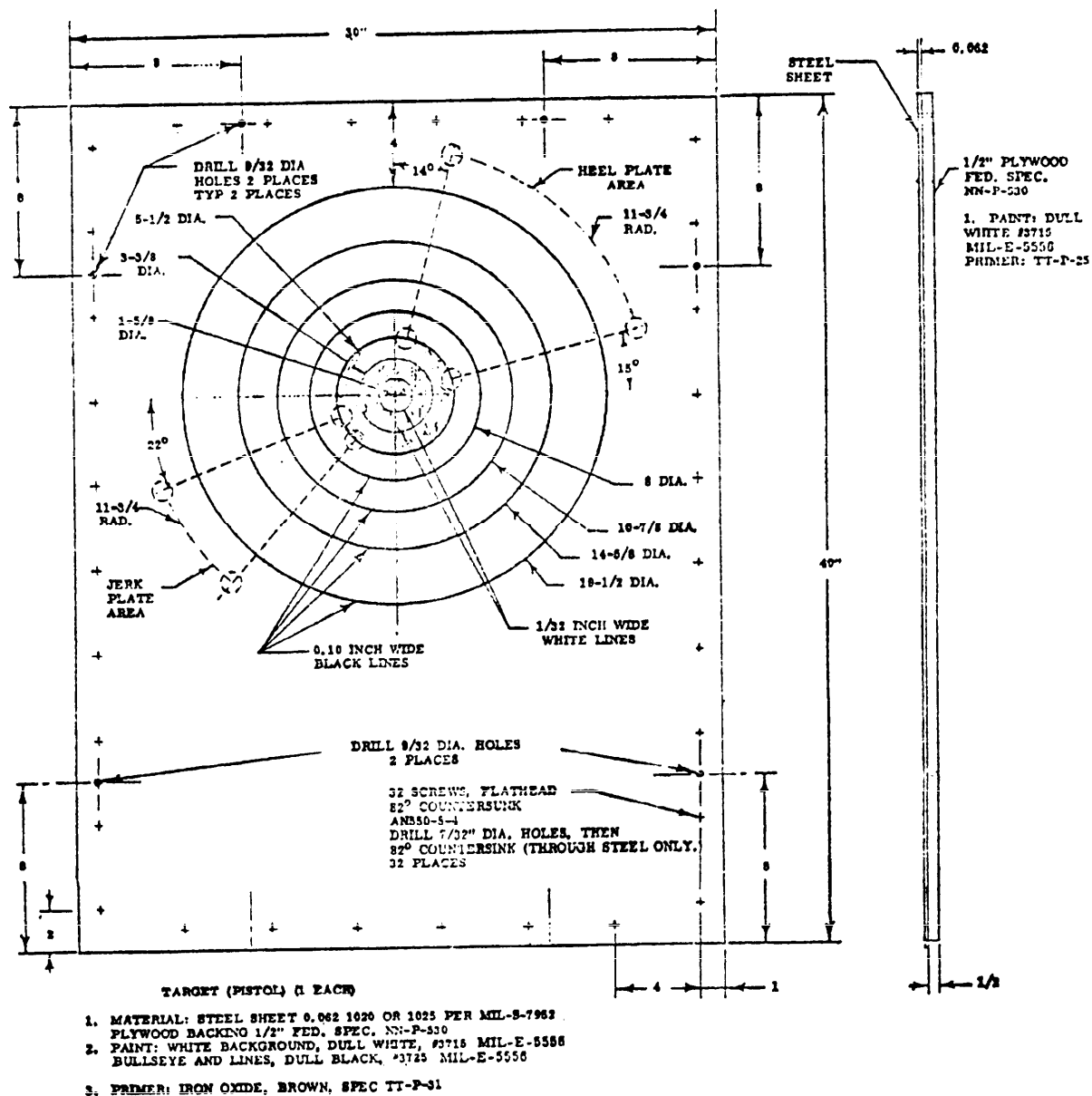
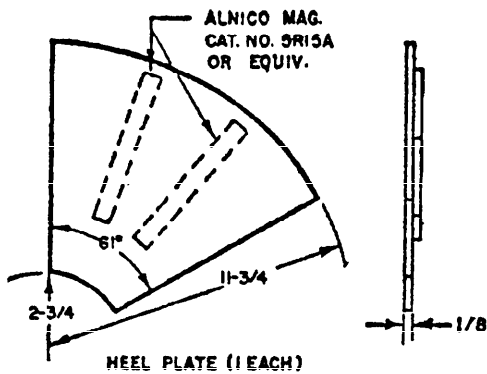


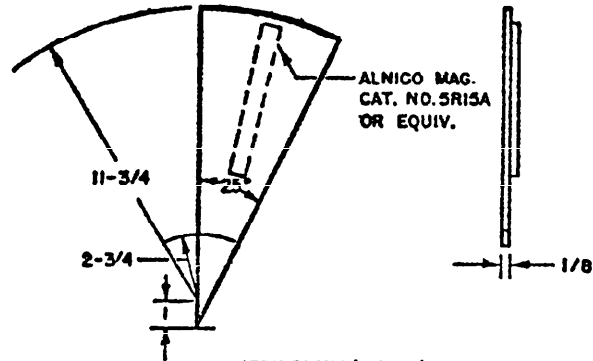
FIGURE 3. Pistol target

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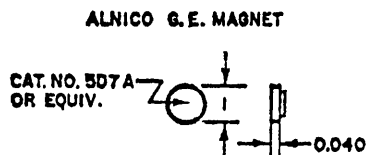
HEEL PLATE (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL RED NO. 3115  
MIL-E-5556  
PRIMER: TT-P-25



JERK PLATE (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL RED NO. 3115  
MIL-E-5556  
PRIMER: TT-P-25

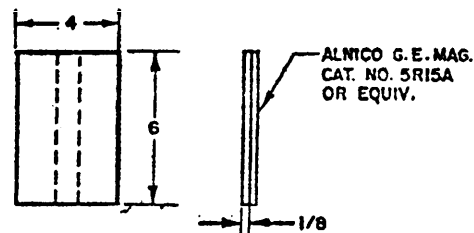


ALNICO G.E. MAGNET

CAT. NO. 5D7A  
OR EQUIV.

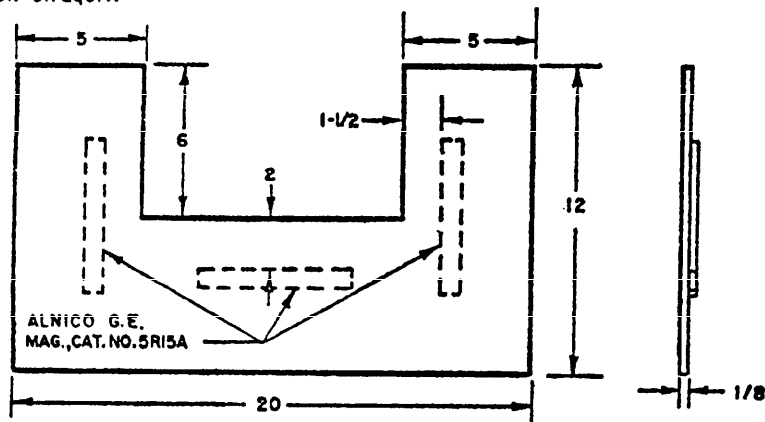
MAGNETIC SPOTTERS (20 EACH)

1. MATERIAL: 0.040 ALUMINUM ALLOY  
FED. SPEC. QQ-A-359D
2. PAINT: 10, DULL WHITE NO. 3715 MIL-E-5556  
10, DULL BLACK NO. 3725 MIL-E-5556  
PRIMER: ZINC YELLOW FOR ALUMINUM & MAGNESIUM  
SURFACES FED. SPEC. TT-P-666A
3. BOND WITH EPON VI MFG. BY SHELL CHEMICAL  
CORPORATION OR EQUIV.



FRONT PISTOL SIGHT (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL BLACK NO. 3725  
MIL-E-5556  
PRIMER: TT-P-25



REAR PISTOL SIGHT (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL BLACK, NO. 3725  
MIL-E-5556  
PRIMER: TT-P-25

1. PAINT WITH 1/4 LONG BLACK LINE WHERE  
CIRCLED FOR POSITIONING OF HEEL &  
JERK PLATES.

FIGURE 4.

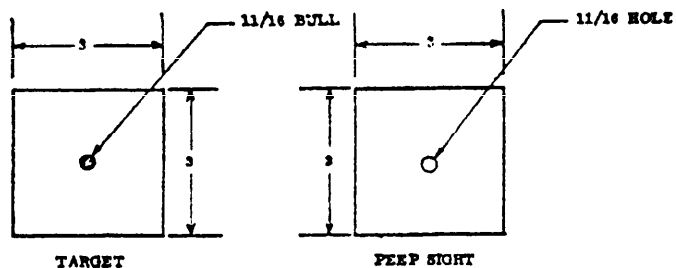
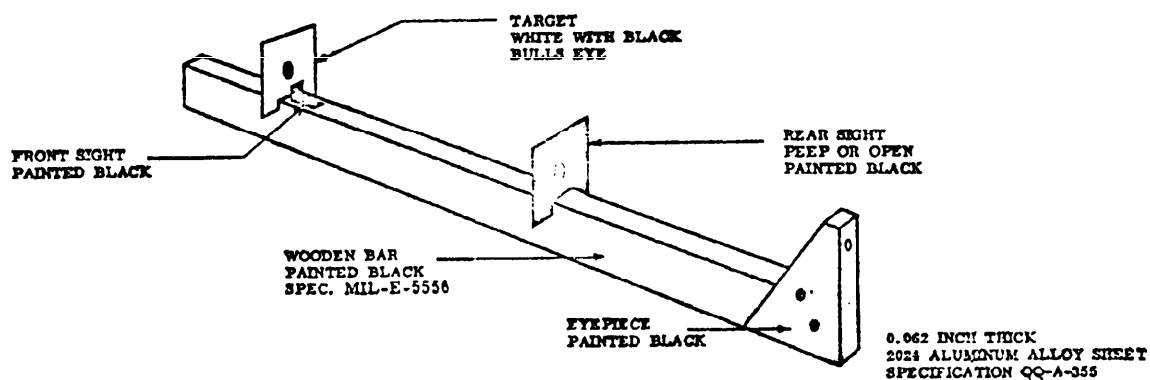
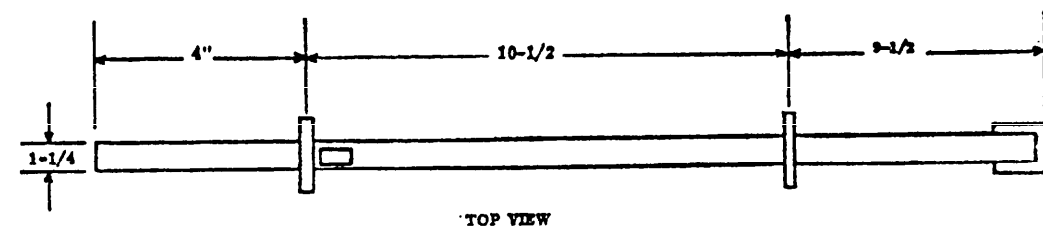






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SIGHTING AND AIMING BAR



NOTE: ALL DIMENSIONS  
IN INCHES  
NO SCALE

1. ENAMEL, CAMOUFLAGE, QUICK DRYING (BLACK & WHITE) SPECIFICATION MIL-E-5556
2. PRIMER, PAINT EXTERIOR UNDERCOAT FOR WOOD SPECIFICATION TT-P-25
3. PAINT, IRON-OXIDE, READY MIXED RED AND BROWN SPECIFICATION TT-P-31

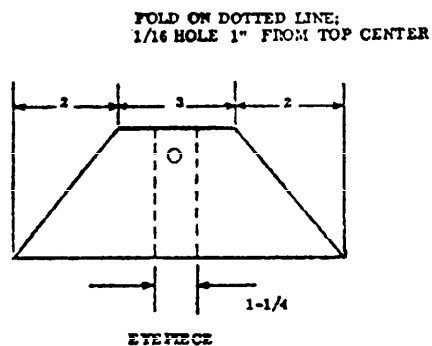
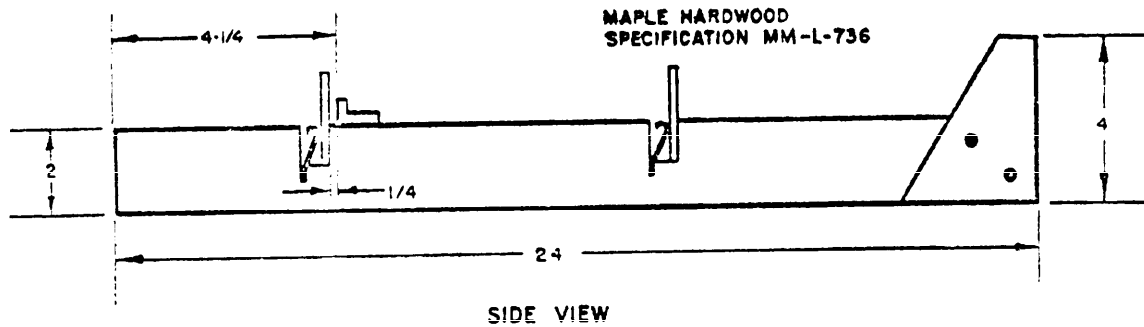
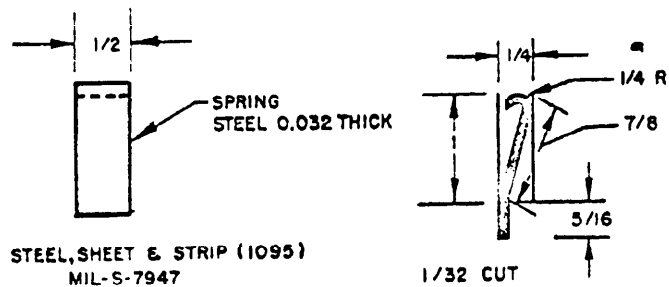


FIGURE 7. Sighting and aiming bar

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BOND WITH EPON VI  
MFG. BY SHELL CHEMICAL CORP. OR EQUIV.



BOND WITH EPON VI  
MFG. BY SHELL CHEMICAL CORP. OR EQUIV.

METAL 0.062 ALLUM. ALLOY  
SPEC QQ-A-355

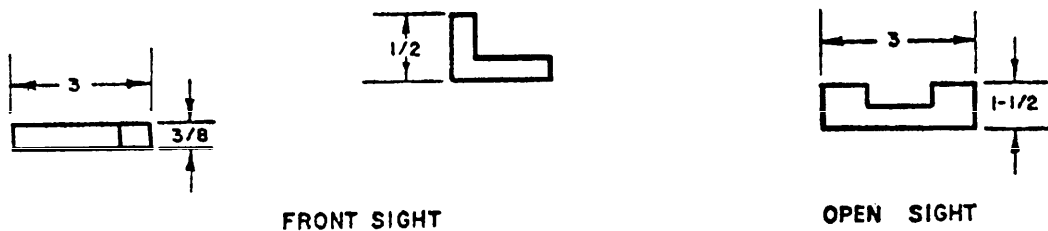


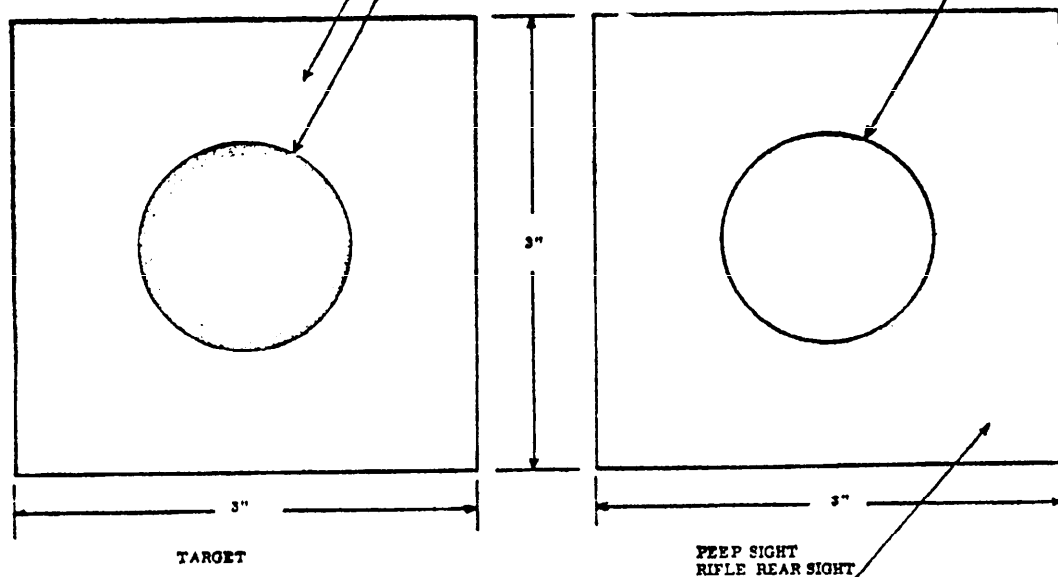
FIGURE 7A.

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APPROX. 0.062" METAL PAINTED  
WHITE ON BOTH SIDES  
2024 ALUM. ALLOY SHEET  
SPEC. QQ-A-355

11/16" BULL (PAINTED BLACK, NON-GLARE)

11/16" HOLE



APPROX. 0.062" METAL PAINTED  
BLACK ON BOTH SIDES  
QQ-A-355

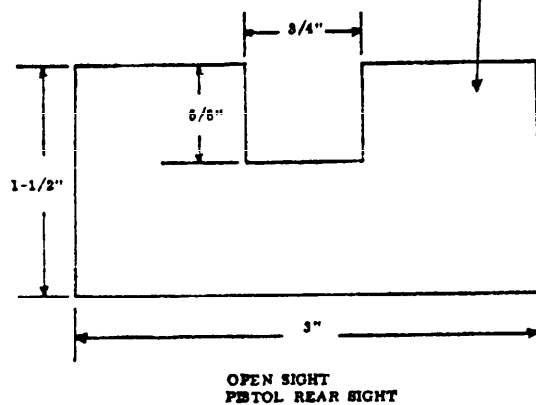
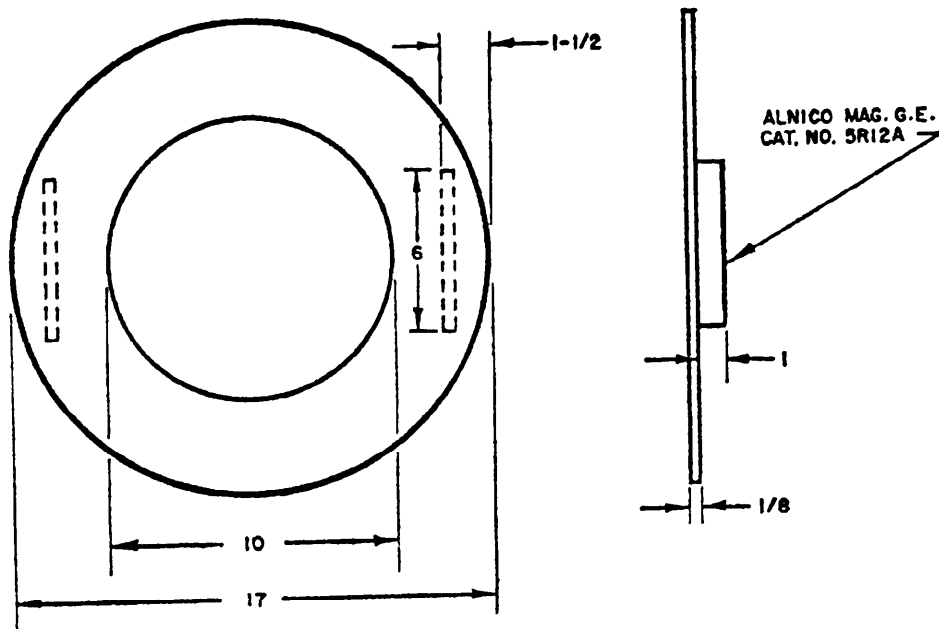


FIGURE 7B.

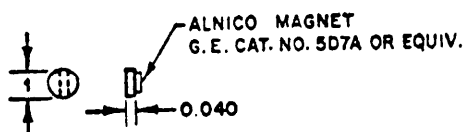


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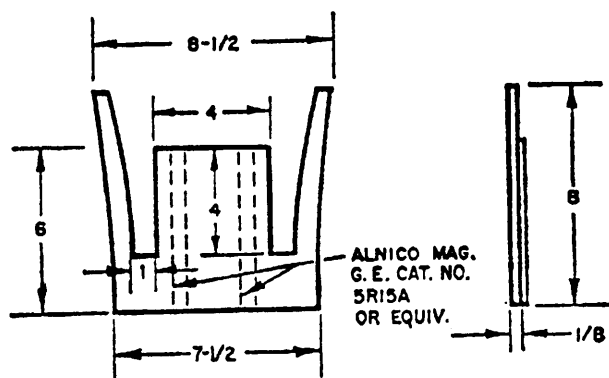
REAR SIGHT, RIFLE (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL BLACK, NO. 3725 MIL-E-5556
3. PRIMER: PAINT EXTERIOR FED SPEC TT-P-25



MAGNETIC SPOTTERS (20 EACH)

1. MATERIAL: 0.040 ALUMINUM ALLOY  
FED SPEC QQ-A-355
2. NUMBER: 20
3. PAINT: 10 DULL BLACK NO. 3725 MIL-E-5556  
10 DULL WHITE NO. 3715 MIL-E-5556
4. PRIMER: ZINC YELLOW FOR ALUMINUM & MAGNESIUM  
SURFACES FED. SPEC TT-P-666A
5. MAGNET CEMENTED TO SPOTTER WITH EPON VI MFG.  
BY SHELL CHEMICAL CORP. OR EQUIV.



FRONT SIGHT, RIFLE (1 EACH)

1. MATERIAL: 1/8 MASONITE OR EQUIV.
2. PAINT: DULL BLACK, NO. 3725 MIL-E-5556
3. PRIMER: PAINT EXTERIOR, FED SPEC TT-P-25

FIGURE 9. Rifle sights

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Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

**4.2 Classification of Tests.** The inspection and testing of the training aid kits shall be classified as acceptance tests.

**4.3 Acceptance Tests.** Acceptance tests shall consist of individual tests.

**4.3.1 Individual Tests.** Each training aid kit shall be subjected to an examination of product described under 4.4 test methods.

**4.4 Test Methods.**

**4.4.1 Examination of Product.** Each item of the training aid kits shall be visually examined for workmanship, identification and operational marking, operational performance, and conformance to the specific design requirements of the drawings.

**4.5 Rejection and Retests.** When a training aid kit fails to meet the individual tests, it shall not be accepted until the extent and the cause of the failure shall have been determined and appropriately corrected. The contractor shall explain to the Government representative the cause of the failure and the action taken to preclude recurrence. After correction, the individual tests affected by the rework shall be repeated.

**4.6 Inspection of the preservation, packaging and packing shall be in accordance with instructions described under 5. Preparation for Delivery.**

**5. Preparation for Delivery.**

**5.1 Components shall be segregated as kits and packaged in accordance with the manufacturer's commercial practice unless other-**

**wise specified by the applicable procurement document.**

**5.2 Marking.** Interior and exterior containers shall be marked in accordance with MIL-STD-129. The subject marking nomenclature shall be:

Training Aid Kits, Marksmanship, Small Arms Weapon.

A/E 29U-T1 Kit (appropriate designation)

**6. Notes.**

**6.1 Intended Use.** The training aids covered by this specification are intended for use in training programs for marksmanship with small arms weapons. It will be utilized to accomplish the training of personnel in the essentials of operation, nomenclature, correct sighting and safety procedures for small arms weapons. (Item quantity in kits recommended for classroom instruction of twenty-five students.)

**6.2 Documents applicable to the utilization of training equipment are as follows:**

- a. Air Force Manuals
  - AFM 50-4, Carbine, Caliber .30 Manual
  - AFM 50-17, Pistol and Revolver Manual
- b. Air Force Technical Order 39A-5AC-11, (Army FM 35-5)

**Notice.** When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

**Custodians:**  
 Army—Ord  
 Air Force—OOA

**Preparing activity:**  
 Air Force—OOA

