

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>
Kit A:		
1.	Target Stand (for pistol and rifle) (Fig 1 & 1a)	1 each
Kit 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
Kit C:		
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>
Kit 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

Kit C:	
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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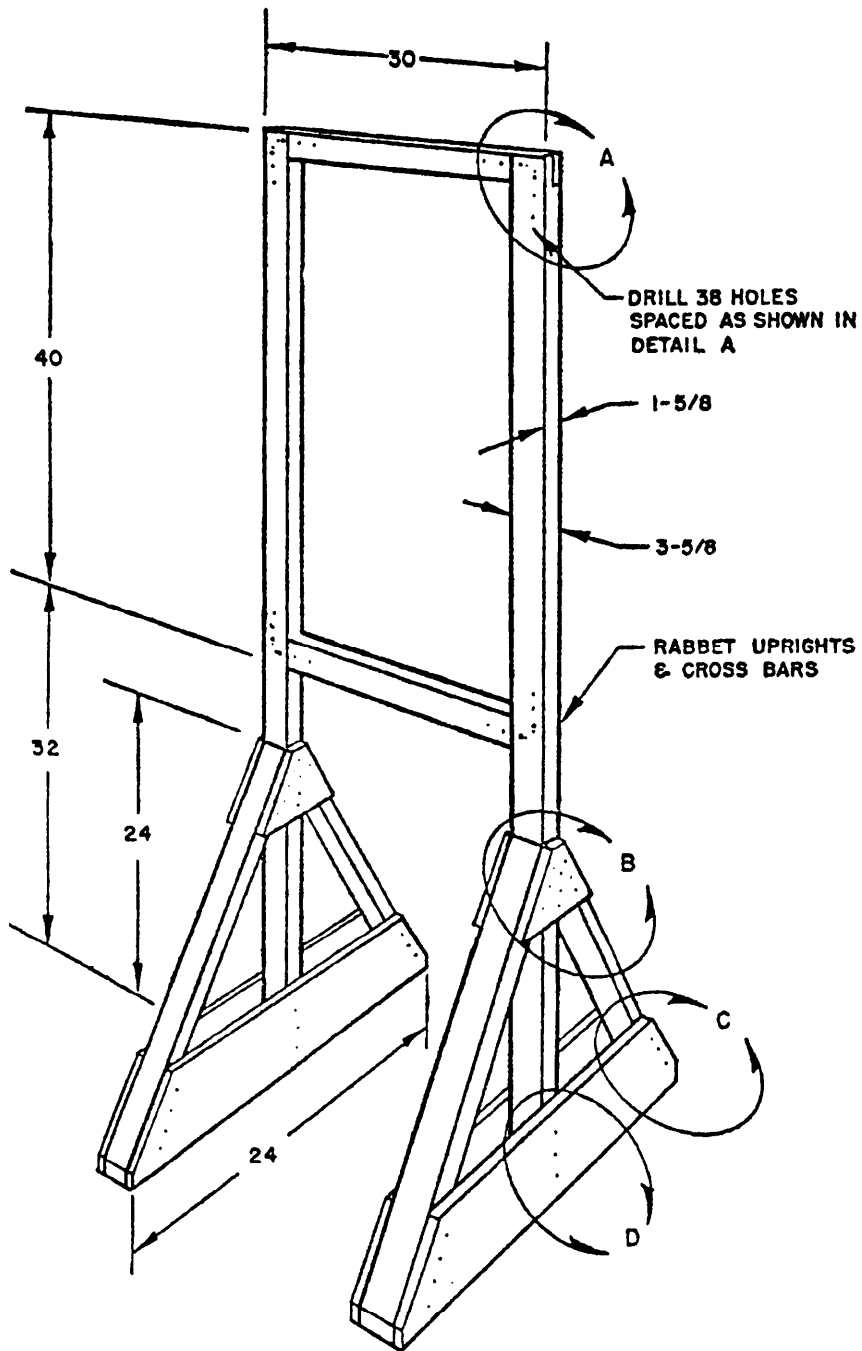


FIGURE 1. Target stand (for pistol & rifle)

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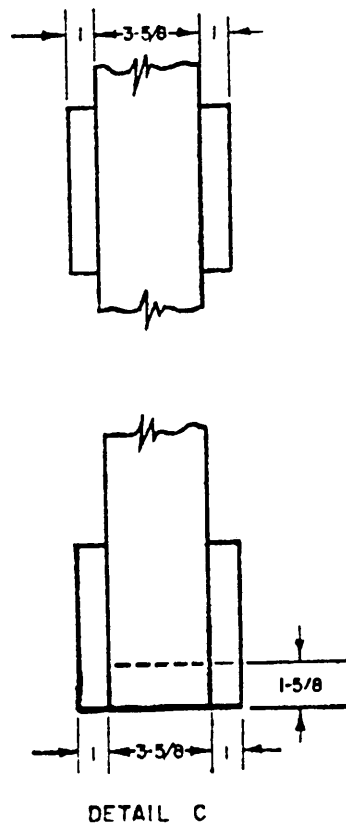
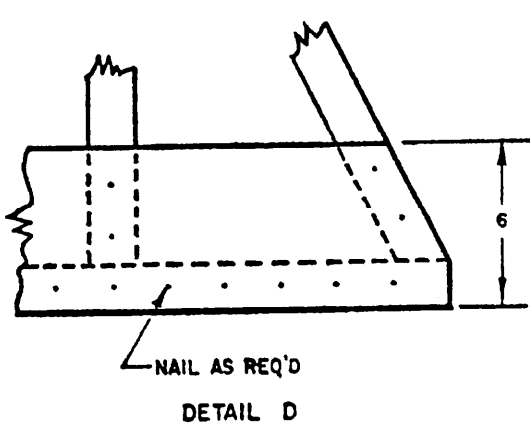
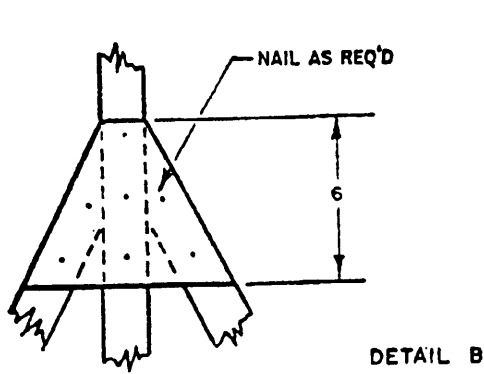
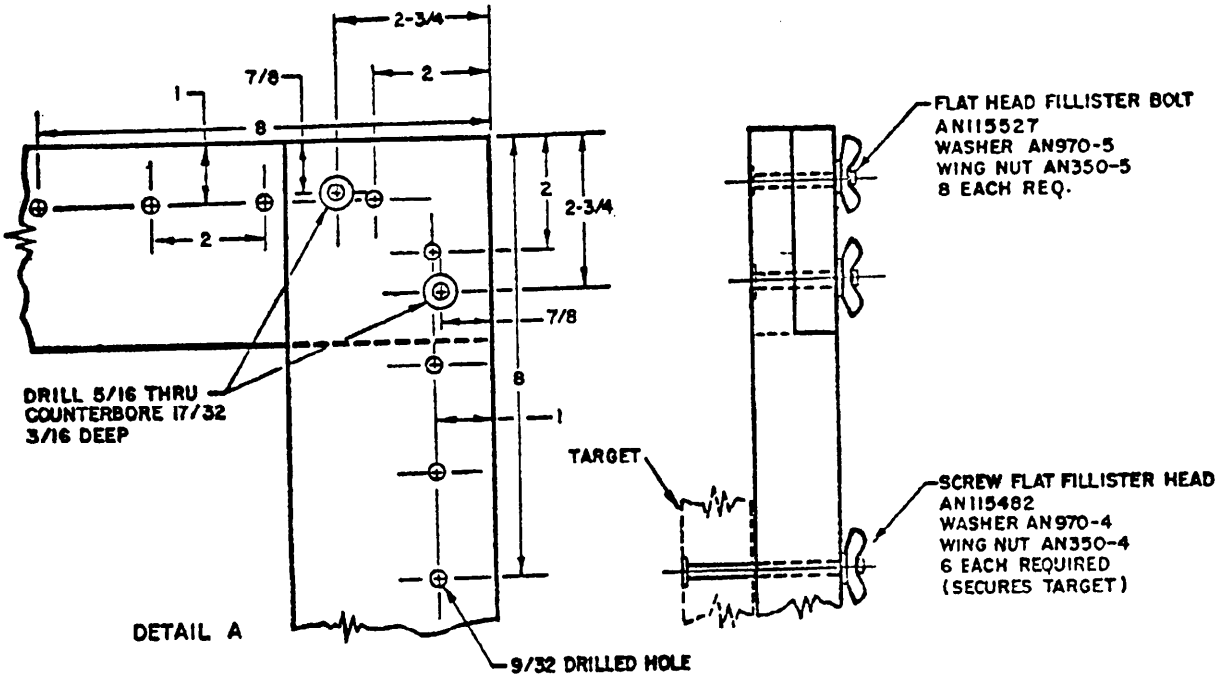
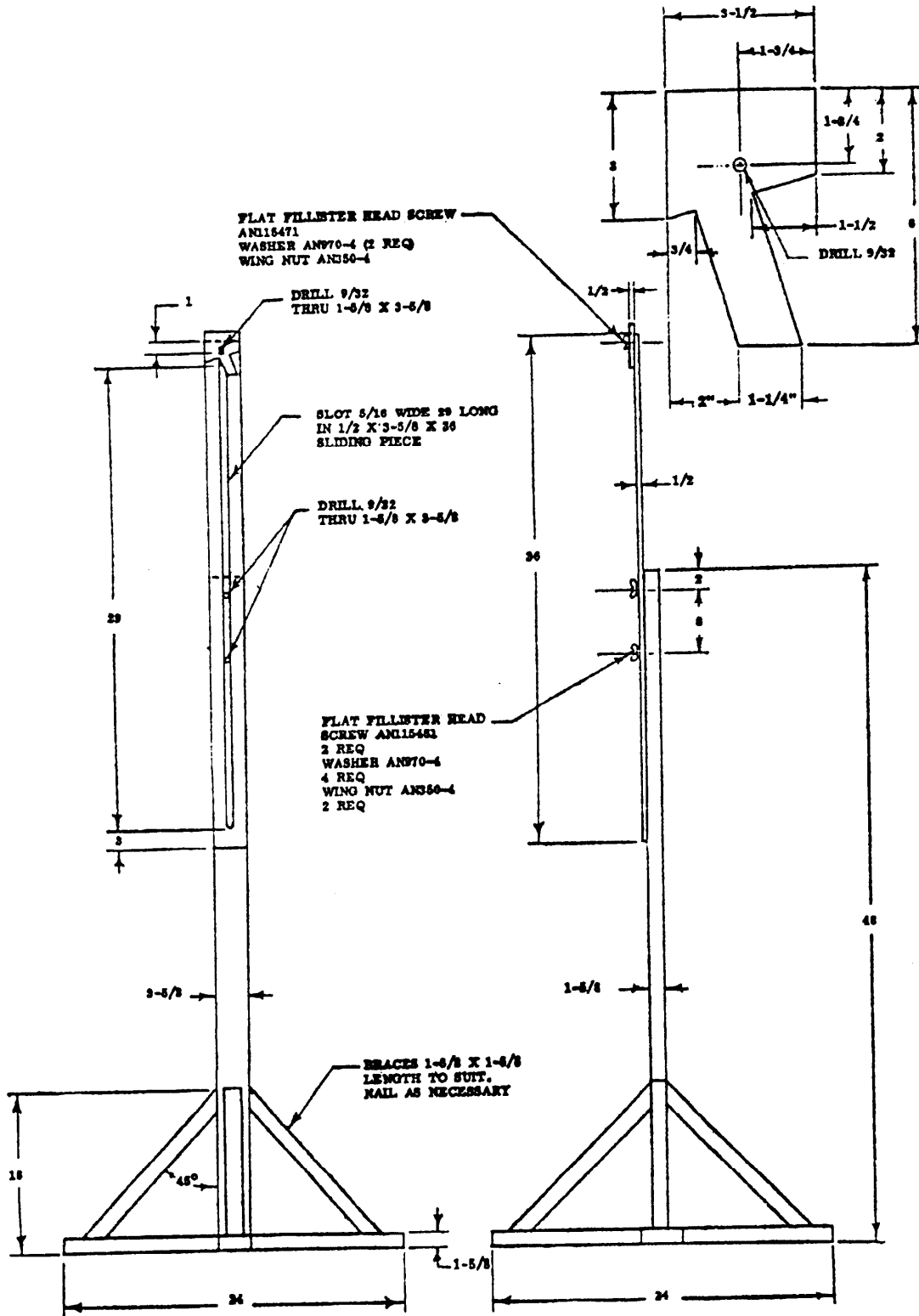


FIGURE 1A. Target stand (for pistol & rifle)

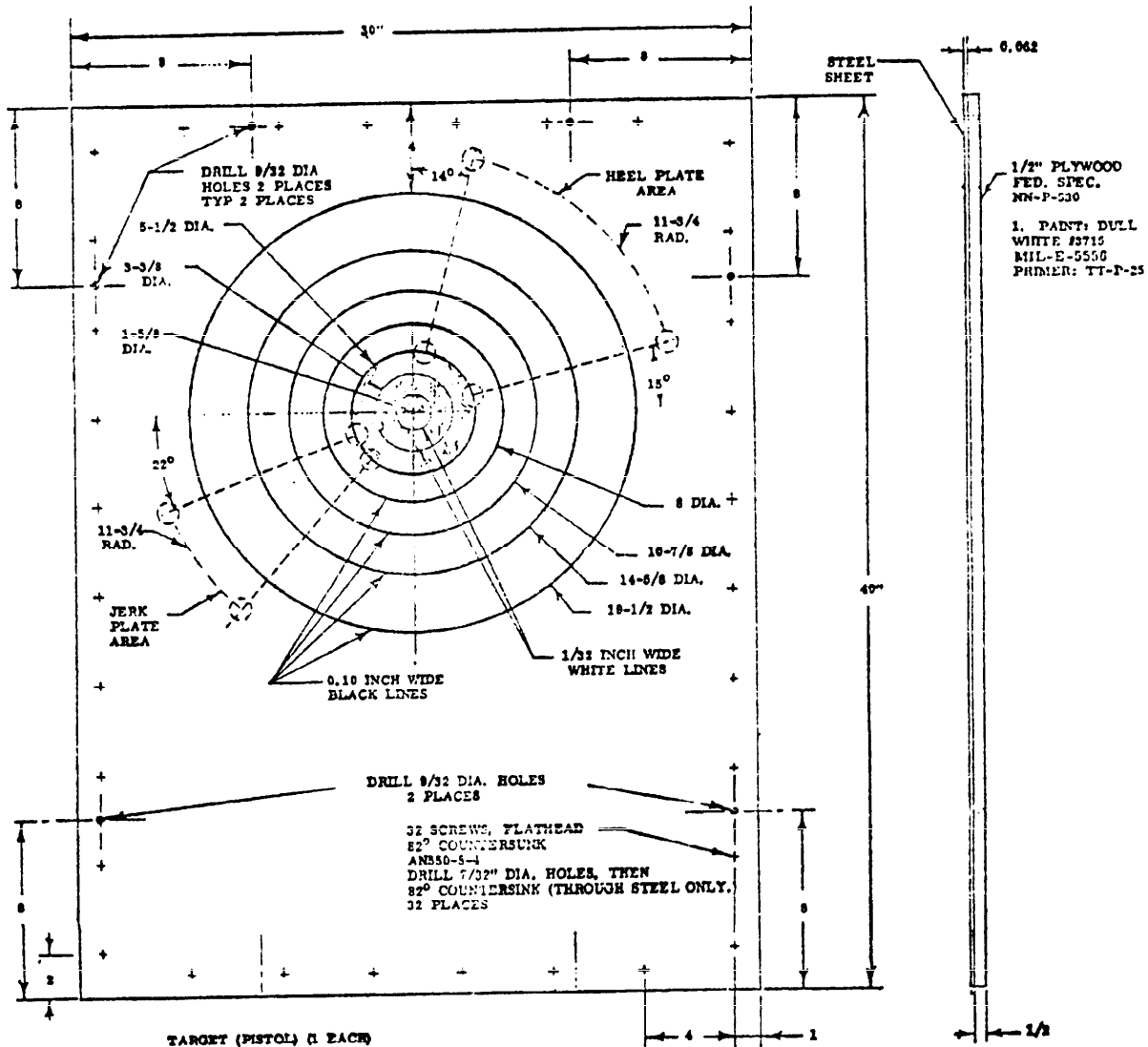
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1. LUMBER NO. 1 COMMON, SPEC. MM-L-781
2. PLYWOOD SPEC. MN-P-530
3. PRIMER: PAINT SPEC. TT-P-45
4. PAINT: DULL BLACK #378. MIL-E-8856

FIGURE 2. Pistol rest stand

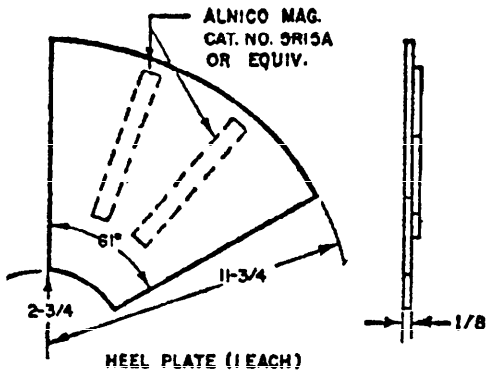
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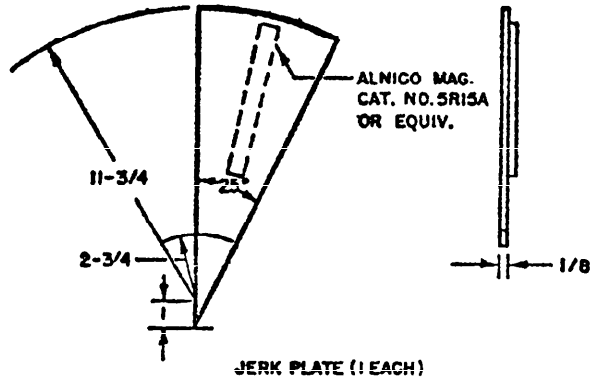
- TARGET (PISTOL) (2 EACH)
- MATERIAL: STEEL SHEET 0.062 1020 OR 1025 PER MIL-S-7982
PLYWOOD BACKING 1/2" FED. SPEC. NN-P-530
 - PAINT: WHITE BACKGROUND, DULL WHITE, #3715 MIL-E-5556
BULLSEYE AND LINES, DULL BLACK, #3725 MIL-E-5556
 - PRIMER: IRON OXIDE, BROWN, SPEC TT-P-31

FIGURE 3. Pistol target

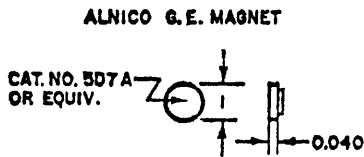
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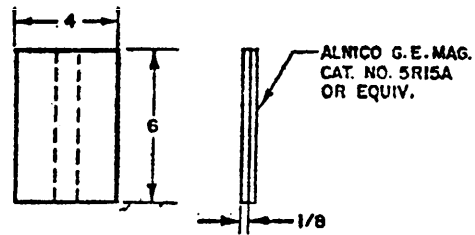
- HEEL PLATE (1 EACH)**
1. MATERIAL: 1/8 MASONITE OR EQUIV.
 2. PAINT: DULL RED NO.3115 MIL-E-5556 PRIMER: TT-P-25



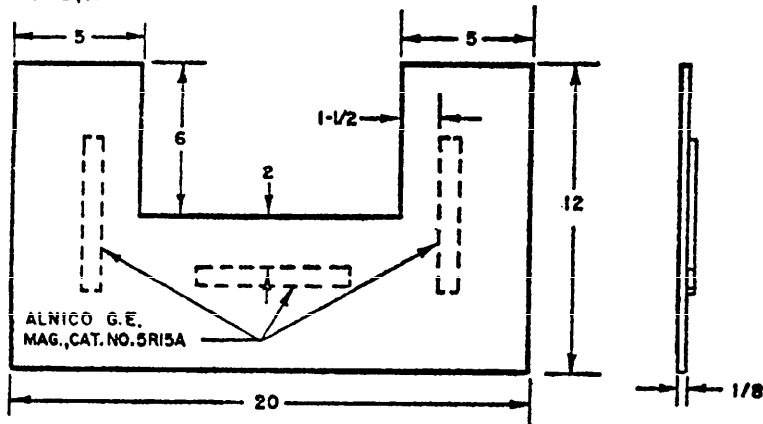
- JERK PLATE (1 EACH)**
1. MATERIAL: 1/8 MASONITE OR EQUIV.
 2. PAINT: DULL RED NO.3115 MIL-E-5556 PRIMER: TT-P-25



- 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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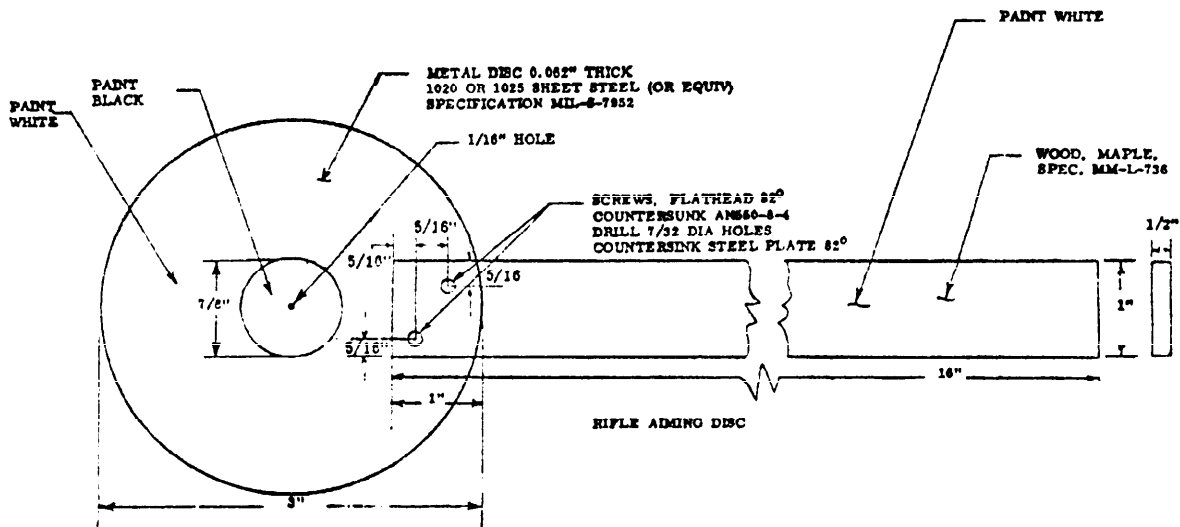
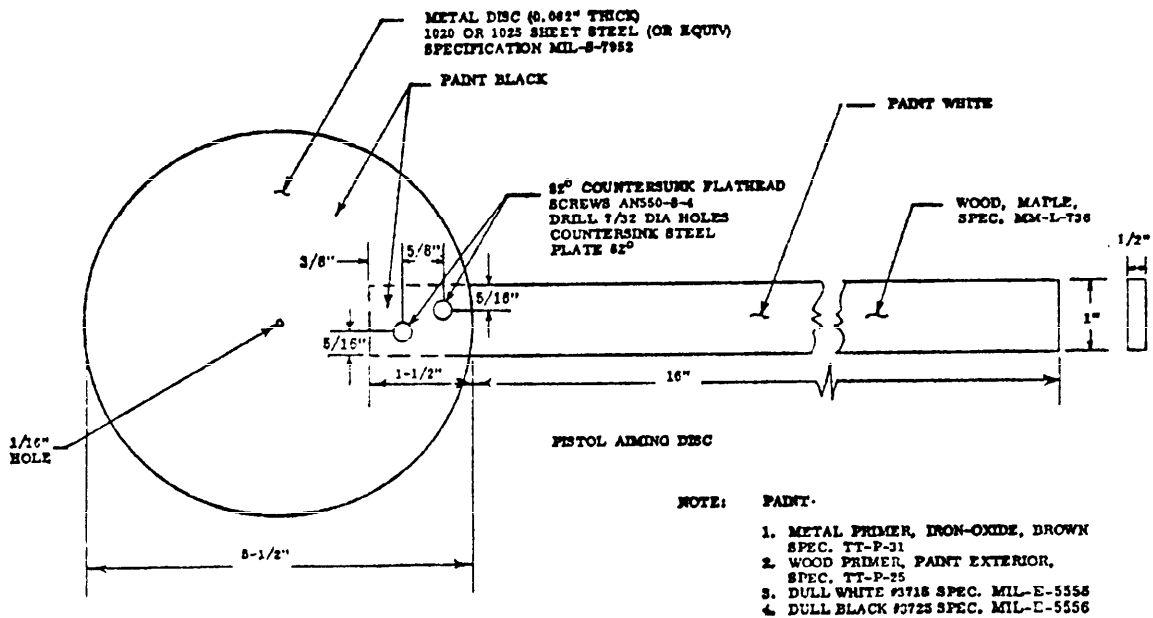


FIGURE 6. Pistol and rifle aiming disc

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SIGHTING AND AIMING BAR

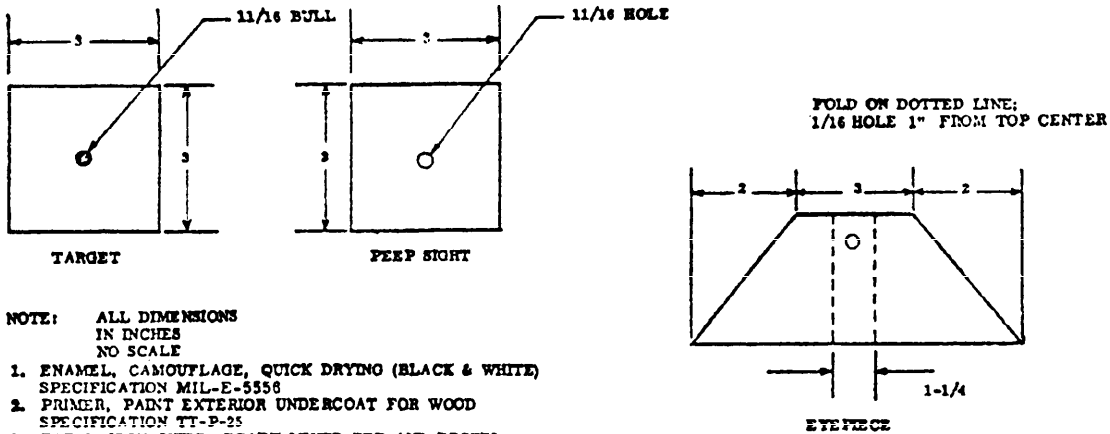
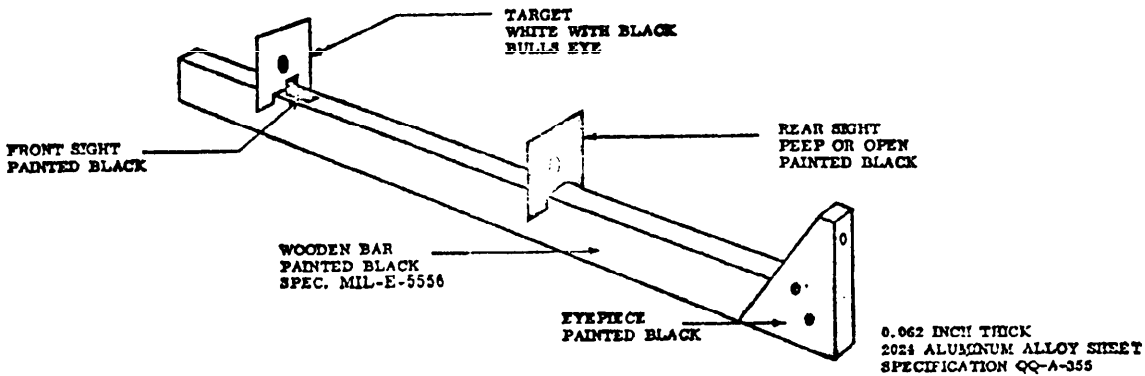
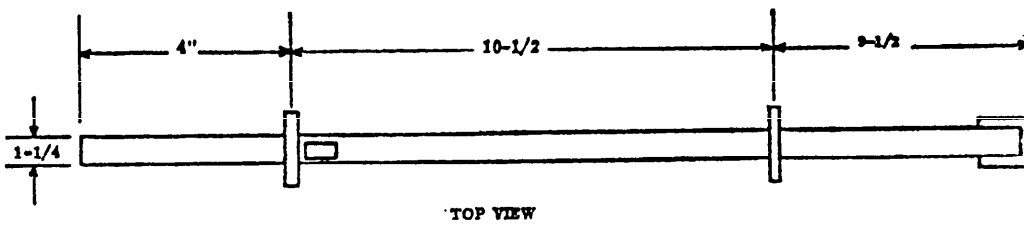
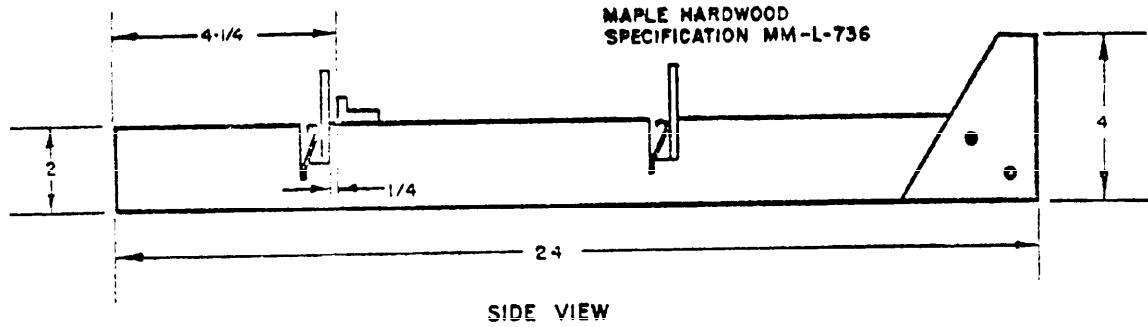
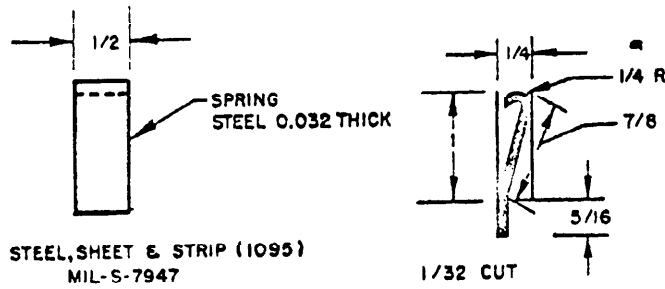


FIGURE 7. Sighting and aiming bar

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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

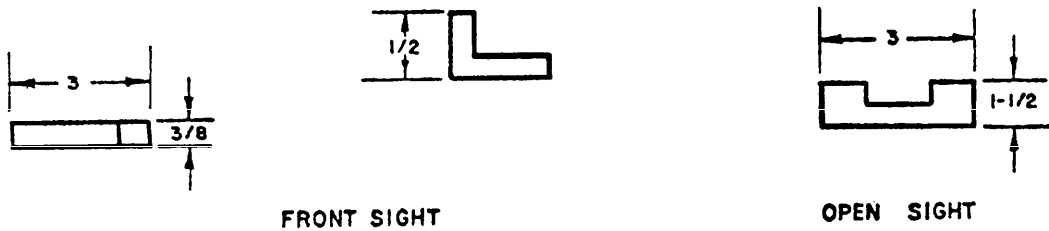


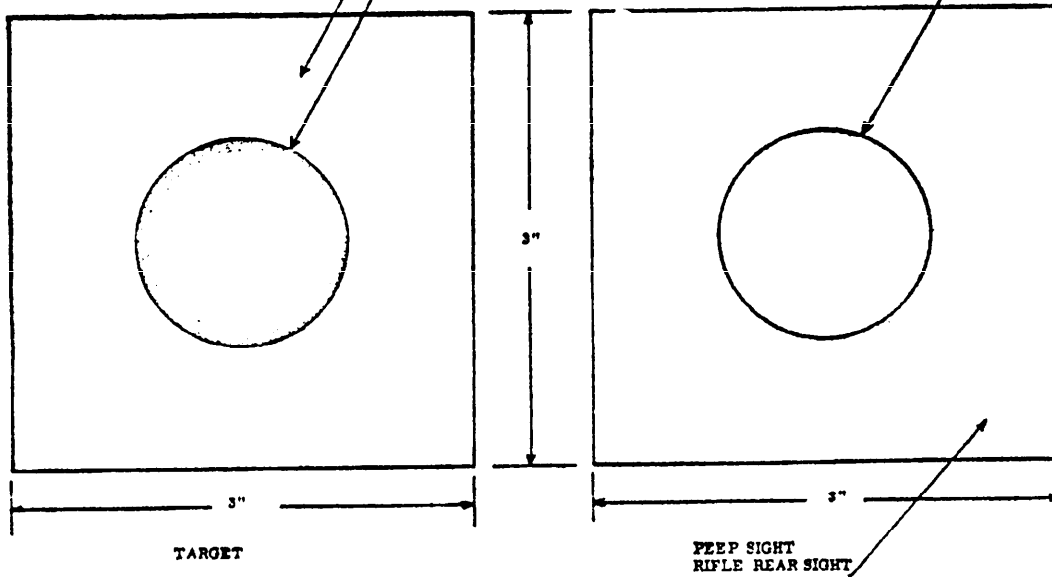
FIGURE 7A.

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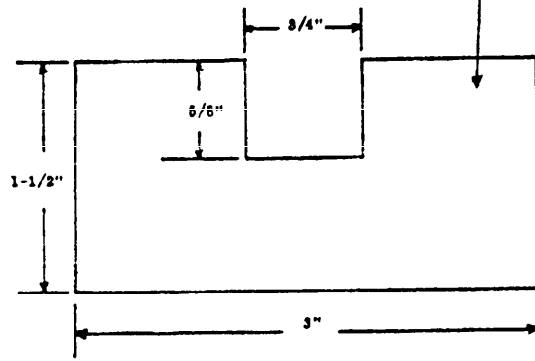
APPROX. 0.062" METAL PAINTED
WHITE ON BOTH SIDES
2024 ALLUM. ALLOY SHEET
SPEC. QQ-A-355

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

11/16" HOLE



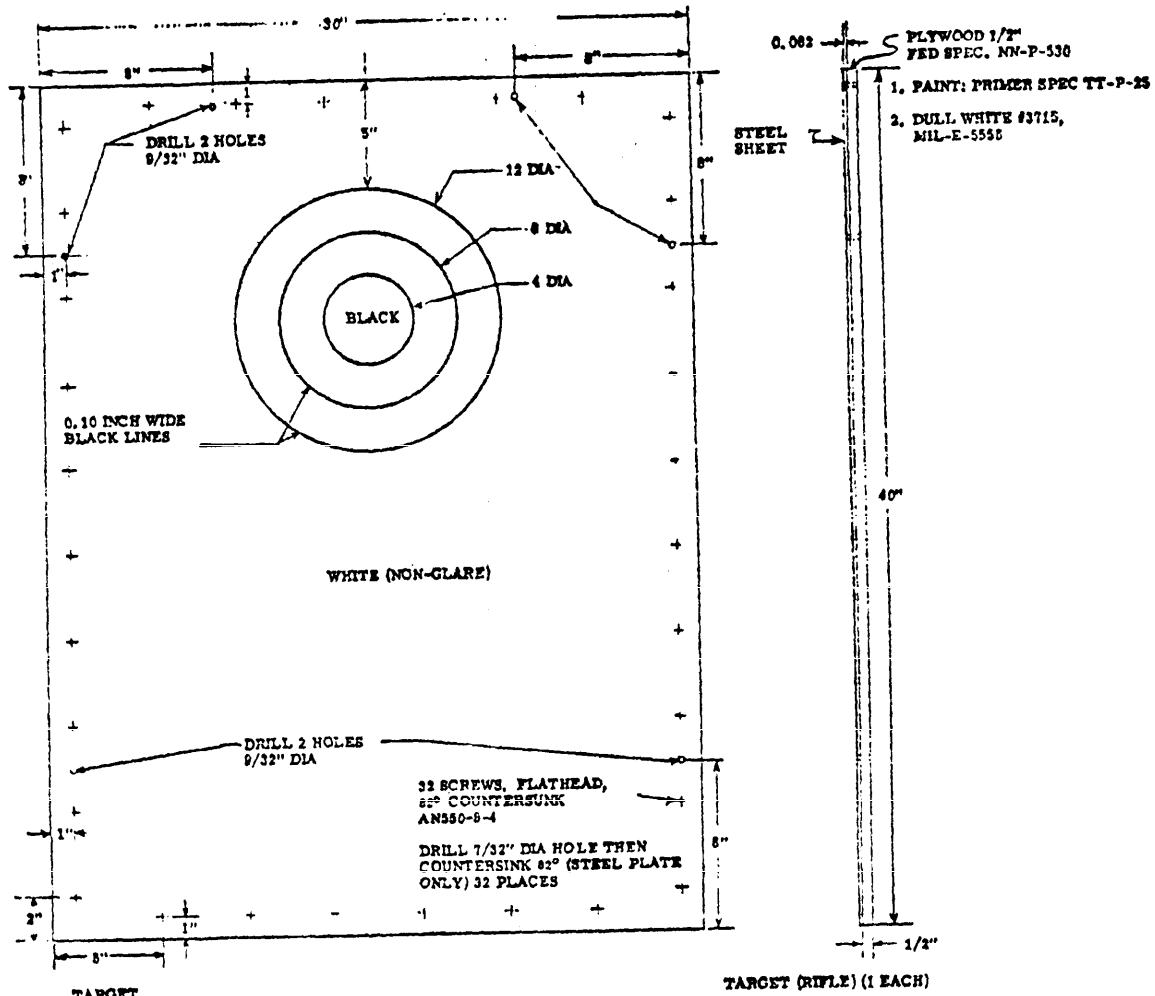
APPROX. 0.062" METAL PAINTED
BLACK ON BOTH SIDES
QQ-A-355



OPEN SIGHT
PISTOL REAR SIGHT

FIGURE 7B.

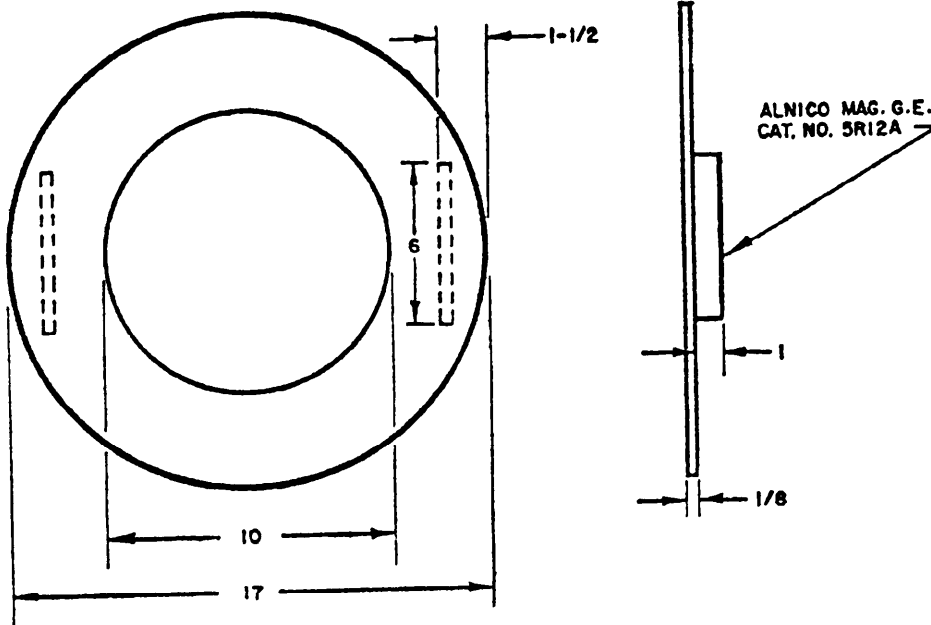
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- | | |
|---|--|
| <ol style="list-style-type: none"> 1. METAL FACE STEEL MIL SPEC 6-7052 2. PLYWOOD BACKING 1/4" PER FED SPEC NN-P-530 3. PAINT: DULL WHITE #3715 MIL-E-5558
TARGET RINGS AND BULLSEYE DULL BLACK #3725
MIL-E-5558 4. PRIMER: IRON-OXIDE BROWN FED SPEC TT-P-31 | <ol style="list-style-type: none"> 1. MAT: STEEL SHEET 0.062 THICK 1020 OR 1025 SPEC MIL-S-7052 2. PAINT: PRIMER, IRON-OXIDE, BROWN, SPEC TT-P-31
WHITE, BACKGROUND, DULL WHITE #3715 MIL-E-5558
BULLSEYE AND LINES, DULL BLACK #3725 MIL-E-5558 |
|---|--|

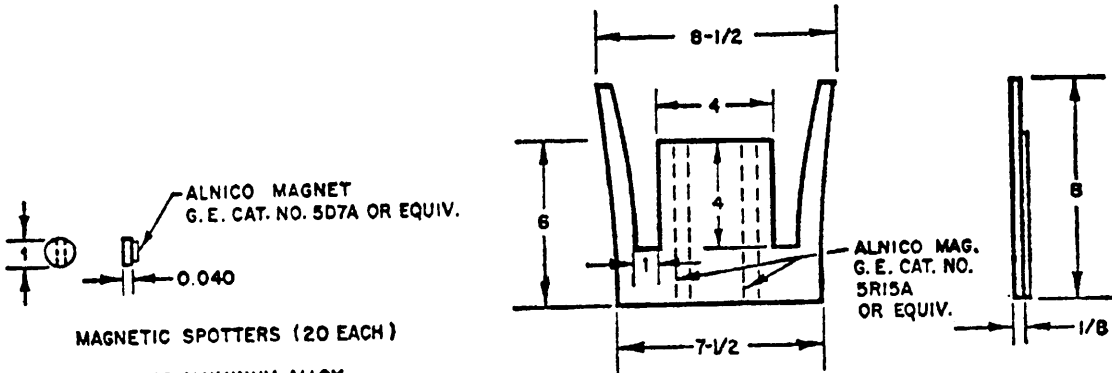
FIGURE 8. Rifle target

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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)

FRONT SIGHT, RIFLE (1 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.

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

