

UNCLASSIFIED

AD NUMBER

AD491158

LIMITATION CHANGES

TO:

Approved for public release; distribution is unlimited.

FROM:

Distribution authorized to U.S. Gov't. agencies and their contractors;  
Administrative/Operational Use; OCT 1956. Other requests shall be referred to Army Materiel Command, Washington, DC 20315.

AUTHORITY

AMC per ltr, 9 Apr 1976

THIS PAGE IS UNCLASSIFIED

THIS REPORT HAS BEEN DELIMITED  
AND CLEARED FOR PUBLIC RELEASE  
UNDER DOD DIRECTIVE 5200.20 AND  
NO RESTRICTIONS ARE IMPOSED UPON  
ITS USE AND DISCLOSURE.

DISTRIBUTION STATEMENT A

APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION UNLIMITED.

UNCLASSIFIED

AD

491158

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION ALEXANDRIA, VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. 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.

UNANNOUNCED

491158

DEVELOPMENT  
OF  
AIMING POST, M1A2 (M1A1E1)

"PREPARED FOR THE U. S. ARMY  
MATERIEL COMMAND BY THE ARMY  
MATERIEL RESEARCH STAFF,  
UNIVERSITY OF PITTSBURGH,  
UNDER CONTRACT DA-36-034-AMC-  
3785(X)".

ED BY DDC

In the summer of 1952 the Artillery School at Fort Sill recom-  
mended to Army Field Forces that the standard M1A1 aiming post be  
modified to provide a point on each of the two sections of the post,  
instead of having a point on only the lower section, as in the stand-  
ard model. The School stated that situations arose in which addi-  
tional posts were needed, and frequently only upper sections, which  
were not pointed, were the only ones available. It was possible to  
use them, but the nature of the terrain often made it difficult to  
emplace them. If both sections were pointed, it would make no dif-  
ference if the lower section were lost or damaged, for the upper  
section could be emplaced just as easily. Also, the addition of a  
point to the upper section would not prevent both sections from being  
assembled as one post and used in the same manner as the M1A1 post.  
Ordnance modified the M1A1 post in accordance with this recommenda-  
tion, the new post being designated the M1A1E1.

A cold-rolled steel point was fixed to the upper ends of the top  
sections of twelve M1A1 aiming posts. The posts were then sent to  
Army Field Forces Board No 1 for testing, early in 1953. In its test  
report the Board stated that a point on each section of the aiming  
post doubled the effective number of posts available to each gun  
crew.

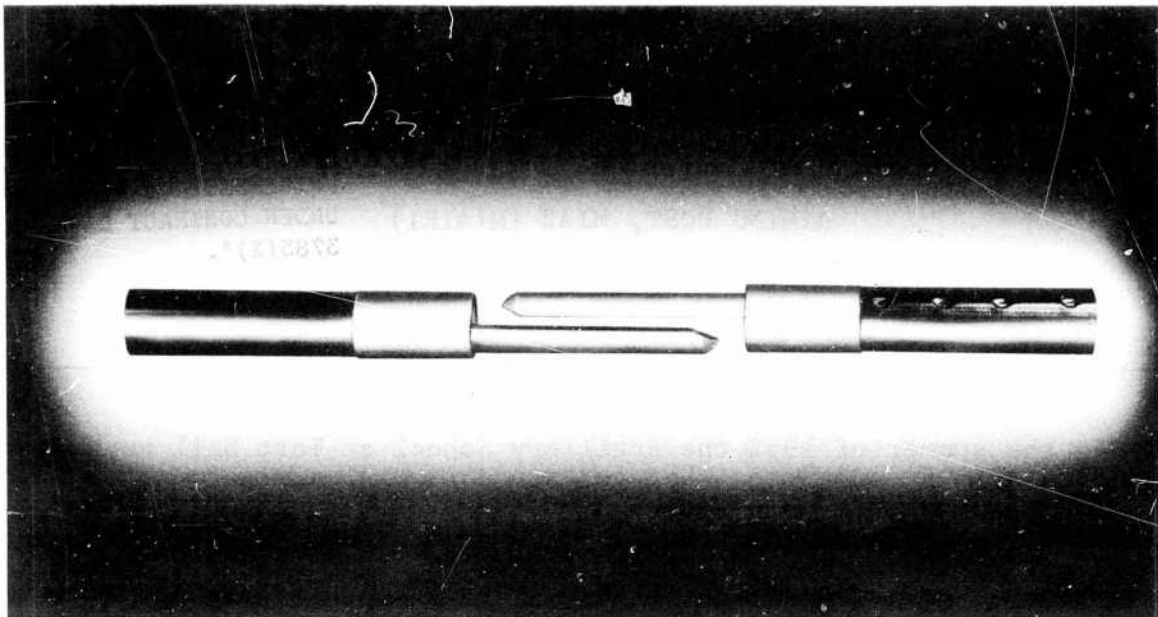
As a result of the Board's favorable report, action was begun  
in April 1954 to classify the M1A1E1 aiming post as a standard item.  
Before such action was completed, however, OCO recommended that the  
means of connecting the two sections of the post be modified so that  
the sections would be identical. This necessitated redesigning the  
the connectors. One post with the new connectors was fabricated and  
sent to Army Field Forces Board No 1 for examination. After its ex-  
amination the Board replied that the new design was satisfactory and,

RELATED TIR'S

—	TIR 9-6-8	Development of Miscellaneous Fire Control
		Equipment for Artillery
	TIR 9-6-8E1	Infinity Aiming Post, T6
7-56	TIR 9-6-8F1	Aiming Post Reflectors, T1 and T2
7-56	TIR 9-6-8H1	Instrument Light, T16

DDC AVAILABILITY NOTICE:  
Qualified requesters may obtain  
copies of this report from DDC.

491158



BAYONET-TYPE CONNECTOR OF AIMING POST, M1A2

consequently, when the M1A1E1 was classified standard as the M1A2 aiming post in June 1954, the new connector was substituted for that of the M1A1. At the same time the M1A1 post was classified substitute standard.

Each section of the M1A2 aiming post is made of steel tubing, 1.125 inches in diameter. One end has a cold-rolled steel tip. A projection extends four inches from the open end of the section, and attached to the inner wall of the tubing near its mouth is a semi-circular steel spring. When two sections are put together to form an M1A2 aiming post, the projections slip past each other and press against the springs to provide a firm connection.

The M1A2 aiming post will also be used as a sighting reference for infantry mortars.

At present it is not planned to procure any M1A2 aiming posts until the supply of M1A1's has been exhausted.

#### TENTATIVE PRINCIPAL CHARACTERISTICS

Model	M1A2
Material	
Tubing	steel
Diameter	1.125 in
Point	cold-rolled steel
Length	
Each section	54.5 in
Assembled post (two sections)	101 in

AIMING POST, M1A2 (M1A1E1)

TIR 9-6-8E2

Stripes	
Color	alternating red and white
Number (assembled post)	12 red; 11 white; 2 white half-stripes
Width	3.75 in
Weight	no information