

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S MANUAL

RADAR TRAINER AN/ULT-T5

HEADQUARTERS, DEPARTMENT OF THE ARMY
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RADAR TRAINER AN/ULT-T5

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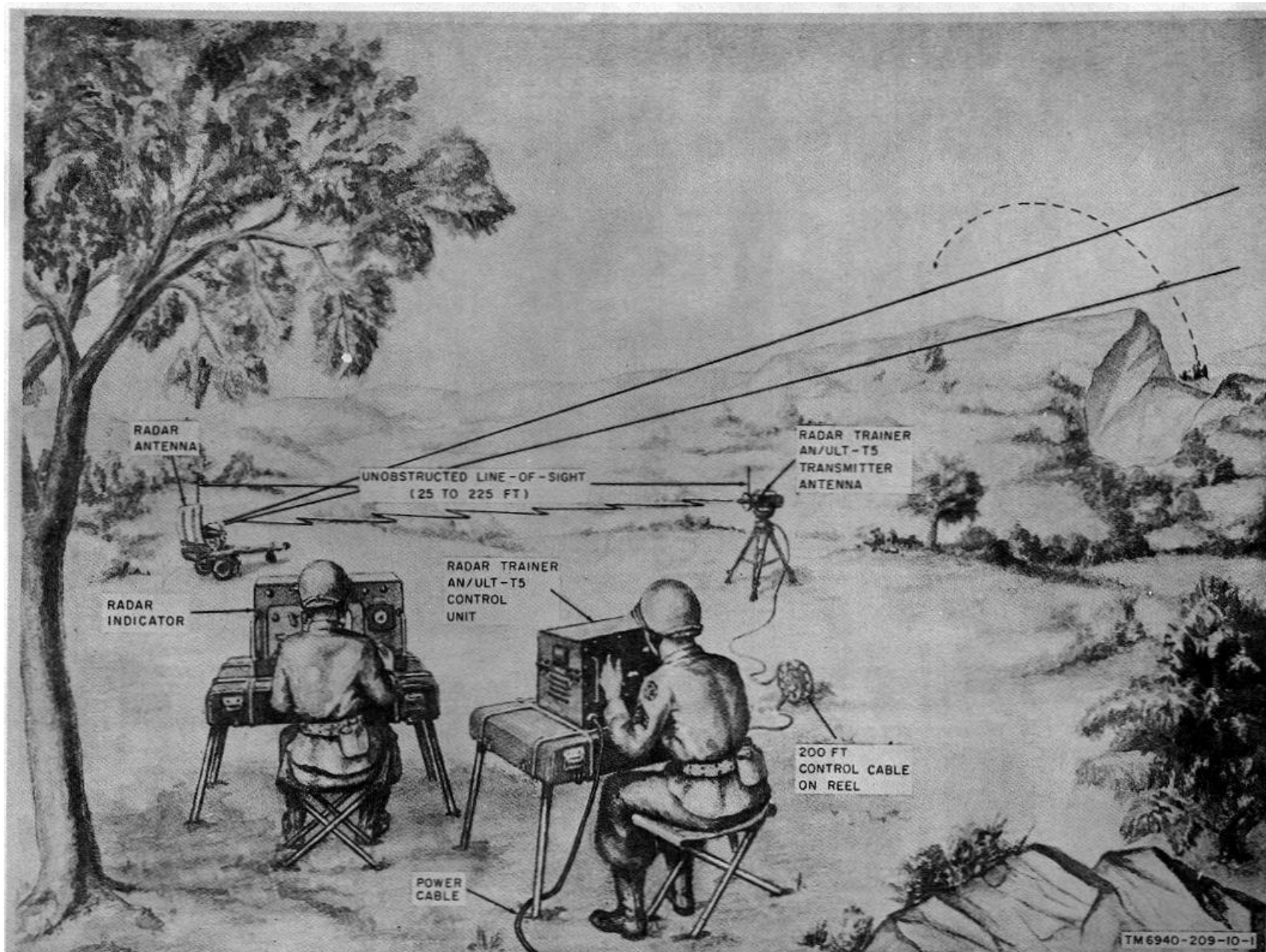


Figure 1. Radar Trainer AN/ULT-T5 in use.

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1. Scope

This manual describes Radar Trainer AN/ULT-T5 and covers its installation, operation, and operator's maintenance. It includes operation under usual conditions, cleaning and inspection of the equipment, and replacement of parts available to first echelon maintenance.

2. Index of Publications

Refer to the latest issue of DA PAM 310-4 to determine whether there are new editions, changes, or additional publications pertaining to your equipment. Department of the Army Pamphlet No. 310-4 is an index of current Technical Manuals, Technical Bulletins, Supply Bulletins, Lubrication Orders, and Modification Work Orders which are available through publications supply channels. The index lists the individual parts (-10, -20, -

35P, etc) and the latest changes to and revisions of each equipment publication.

3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).

c. Comments on Manual. Forward all comments on this publication direct to: Commanding Officer, U. S. Army Electronics Materiel Support Agency, ATTN: SEMLS-MP, Fort Monmouth, New Jersey. (DA Form 1598 (Record of Comments on Publications), DA Form 2496 (Disposition Form), or letter may be used.)

Section II. DESCRIPTION AND DATA

4. Purpose and Use

Radar Trainer AN/ULT-T5 (radar trainer) (fig. 1) is a transportable, low-power radar transmitter primarily designed for use in conjunction with a K-band radar set (Radar Trainer AN/ULT-T5 may be used with Radar Set AN/MPQ-4) for training of radar operations in antijamming techniques. The radar trainer generates and transmits five types of jamming signals in the 12.5 to 17.5-kilo-megacycle (kmc) radar band. The transmitted jamming signal characteristics can be selected at Control, Trainer C-3671/ULT-5, to provide modulated frequencies from 15 cycles per second (cps) to 15 kilocycles (kc), a fixed frequency of 50 kc or 100 kc, and

variation of the signal in modulation frequency, percent of modulation, pulse width, etc, as desired.

a. Use as Trainer. The selected jamming signal is displayed on the scope of Radar Set AN/MPQ-4 simultaneously with the target signal. The radar operator attempts to read through the jamming and practice corrective antijamming action for the various types of jamming signals produced as instructed. The radar trainer can be utilized for classroom use or in the field.

b. Use as Radar Checkout Equipment. A secondary function of the radar trainer is to provide controllable input signals of