TECHNICAL MANUAL

OPERATOR'S MANUAL

RADAR TARGET SIMULATOR

GROUP OH-36/GPN

(NSN 5840-00-138-9974)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the back of the manual. Simply tear out the self addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Forms 2028-2 in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. In either case, a reply will be furnished direct to you.

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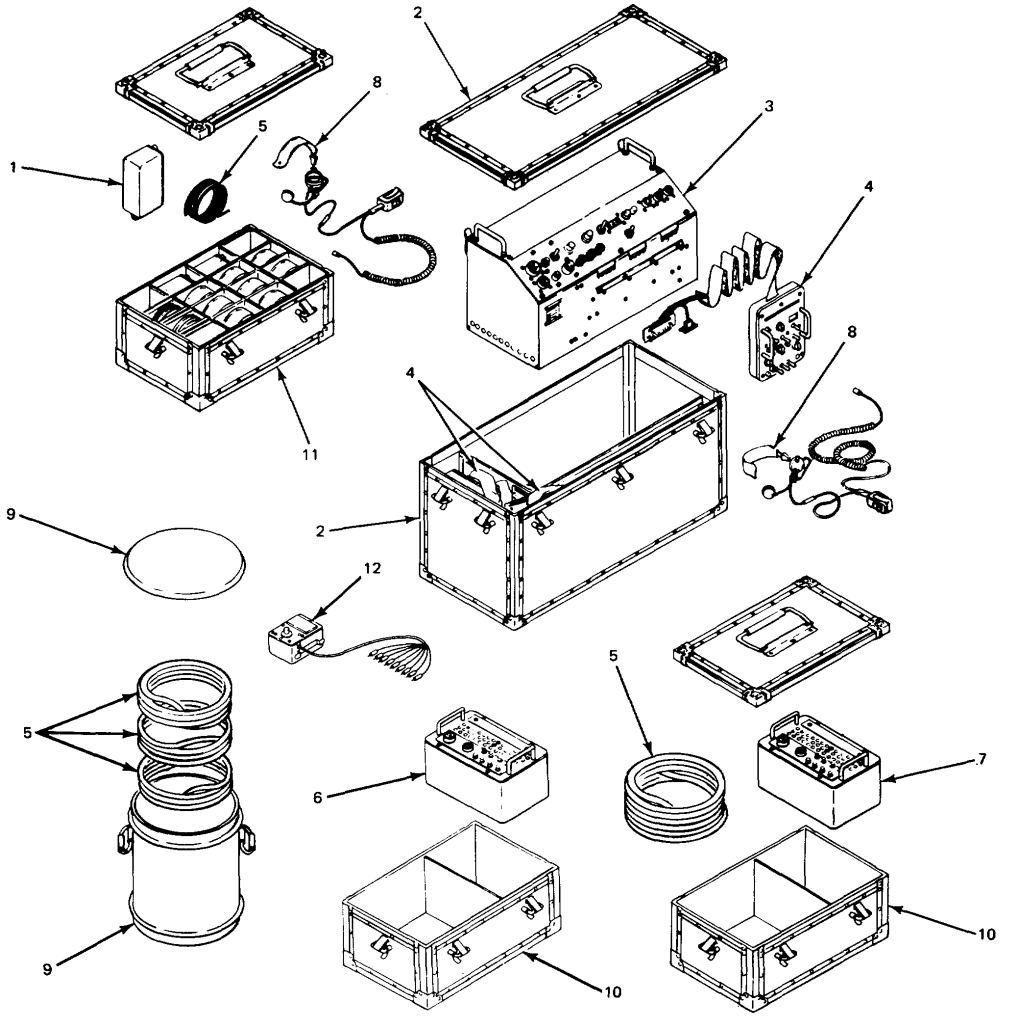

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Figure 1-1. Radar Target Simulator Group OH-36/GPN.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual contains description and leading particulars required to operate Radar Target Simulator Group OH-36/GPN (target generator). The target generator is used in conjunction with an associated radar system to maintain proficiency of operators of ground control approach (GCA) radar equipment.

1-2. Indexes of Publications

a DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 3107. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750. Navy personnel will report maintenance performed utilizing the Maintenance Data Collection Subsystem (MDCS) IAW OPNAVINST 4790.2, Vol 3 and unsatisfactory material/conditions (UR submissions) IAW OPNAVINST 4790.2, Vol 2, chapter 17.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-4. Reporting Equipment Improvement Recommendations (EIR

EIR's will be prepared using SF 368, Quality Deficiency Report. Instructions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-5. Destruction of Army Electronics Materiel

Demolition and destruction of Army electronics materiel equipment to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-6. Description a. Radar Target Simulator Group OH-36/GPN (target generator) (fig. 1-1) is used in conjunction with an associated radar system to maintain proficiency of operators of GCA radar equipment. The target generator simulates up to three moving targets on the associated radar indicator and the targets are maneuvered by means of target generator controls. The controls allow the GCA "pseudo pilot" to perform realistic aircraft target maneuvers in response to typical radar operator commands. In addition, the training exercise may be "frozen" at any time to permit evaluation of the radar operator's response. The following three configurations are available: (1) One junction box for use with Radar Set AN/TPN-8/18.

(2) One junction box for use with Radar Set AN/FPN-40.

(3) Two junction boxes used in a dual mode setup for Radar Set AN/FPN-40 when one is used as a precision approach radar (PAR) and the other as an airport surveillance radar (ASR).

b. In addition to the units listed in table 2-1 the target generator consists of four transit cases and interconnecting cables that interface with the associated radar system by use of a junction box assembly. These hook-ups are necessary to accomplish the video presentation of the simulated targets in conjunction with normal radar video. The target generator is capable of operating in conjunction with the radar systems listed in table 1-1.