

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL

GENERATOR, VIDEO SIGNAL
AN/AAM-26

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HEADQUARTERS, DEPARTMENT OF THE ARMY
MARCH 1967

Organizational Maintenance Manual

GENERATOR, VIDEO SIGNAL AN/AAM-26

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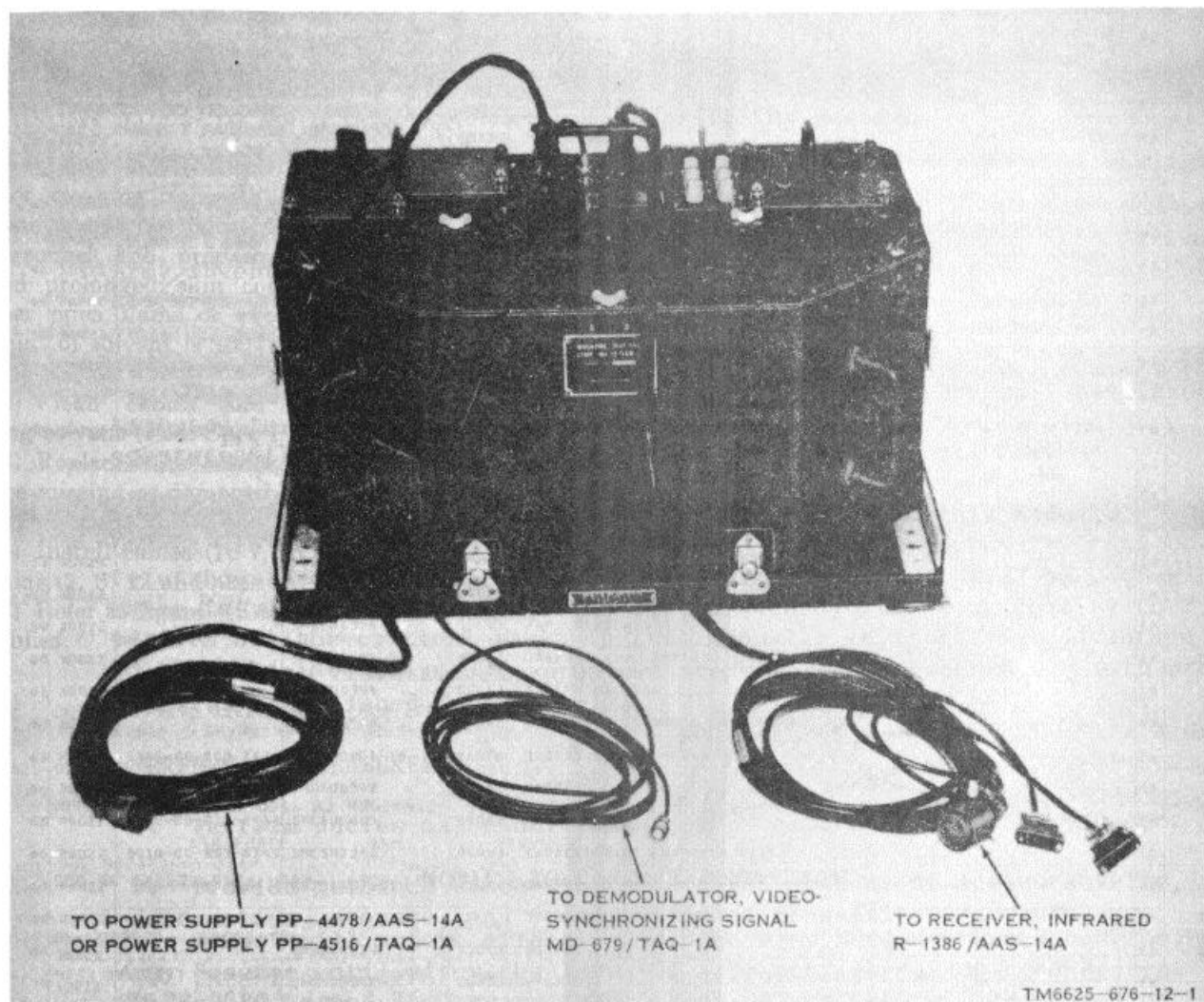


Figure 1-1. Generator, Video Signal AN/AAM-26, major components, setup for bench test application.

**CHAPTER 1
INTRODUCTION**

Section I. GENERAL

1-1. Scope

This manual describes Generator, Video Signal AN/AAM-26 (fig. 1-1) and covers its installation, operation, and organizational maintenance. It includes instructions for initial service, operation, cleaning and inspection of the equipment, and replacement of parts available to the organizational repairman.

1-2. Indexes of Publications

a. *DA Pam 310-4.* Refer to the latest issue of DA Pam 3104 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. *DA Pam 310-7.* 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.

b. *Report of Packaging and Handling Deficiencies.* Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58/NAVSUP PUB 378/AFR 71-4/MCO P4030.29, 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 5538/NAVSUPINST 4610.33/AFM 75-18/MCO P4610.19A, and DSAR 4500.15.

1-3.1. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028, Recommended Changes to Publications and Blank Forms, and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-SS, Fort Monmouth, NJ 07703.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Generator, Video Signal AN/AAM-26 is portable test equipment used primarily to test Surveillance Information Center AN/TAQ-1A (the ground portion) completely, or Detecting Set, Infrared AN/AAS14A (the airborne portion) except for the optical scanning system and the preamplifiers of Receiver, Infrared R-1386/AAS-14A.

b. The AN/AAM-26 provides channel A and channel B video signals, and synchronizing signals for Recorder Subassembly MX-7186/USA-23 of Recorder Group, Surveillance System AN/USA-23 required to test the items in a above. Recorder Subassembly MX-7186/USA-23 records a test film provided with the AAN/AAM-26. The functioning of either the ground or airborne portion of Surveillance System, Infrared AN/UAS-4A is checked by comparing the recorded film with the test film. The test film contains two types of video signals:

(1) Test patterns to check video circuits frequency response (resolution).

(2) Actual terrain information as photographed by an airborne camera during a surveillance mission.

c. A secondary purpose of the AN/AAM-26 is to train operators for the ground and airborne portions of the AN/UAS-4A by using the terrain information of b (2) above.

1-5. Technical Characteristics

Input power.....+28 vdc, 35 watts; +22 vdc, 2 watts; and 115 vac, 400 cps, 20 watts.
 Output signalsVideo and synchronizing signals.
 Frequency response.....20 cps to 100 kc (minimum)
 Film speeds.....4.45 ipm, 20 ipm, 37.5 ipm, 62.5 ipm, and 100 ipm.
 Film capacity250 feet.