

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT

MAINTENANCE MANUAL

FOR

RANGE FINDER, FIRE CONTROL:

(LASER) AN/VVG-1 (1240-00-470-2156)

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. The instructions in this manual are in accordance with the maintenance allocation chart (MAC) and are published for the use of direct support and general support maintenance personnel for the repair of Fire Control Range Finder. (Laser) AN/VVG-1, hereinafter referred to as the laser range finder.

b. Refer to TM 9-2350-230-10 and TM 9-2350-230-20 for operator and organizational maintenance.

1-2. Forms and Records.

a. *Maintenance Forms and Records.* Maintenance

forms, records, and reports which are to be used by personnel and maintenance levels are listed in and prescribed by TM 38-750.

b. *Reports of Accidents.* The necessary reports are prescribed in AR 358-40.

c. *Reporting of Equipment Publication Improvements.* 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 DA Publications, and forwarded directly to Commanding Officer, Frankford Arsenal. ATTN: SARFA-MA, Philadelphia, PA 19137.

Section II. DESCRIPTION AND DATA

1-3. Description.

The laser range finder is a component of the fire control system used in conjunction with the M551A1 Armored Reconnaissance/Airborne Assault Vehicle; hereinafter referred to as the Sheridan vehicle. The function of the laser range finder is to improve the first-round-hit capability of the primary weapon of the

Sheridan vehicle. This function is accomplished by transmitting a pulse of laser light, receiving reflected light from the target, and converting the time from transmission to reception into range data. The range data is numerically indicated in meters and provides accurate range information for the weapon crew. Figure 1-1 illustrates the units of the laser range finder.

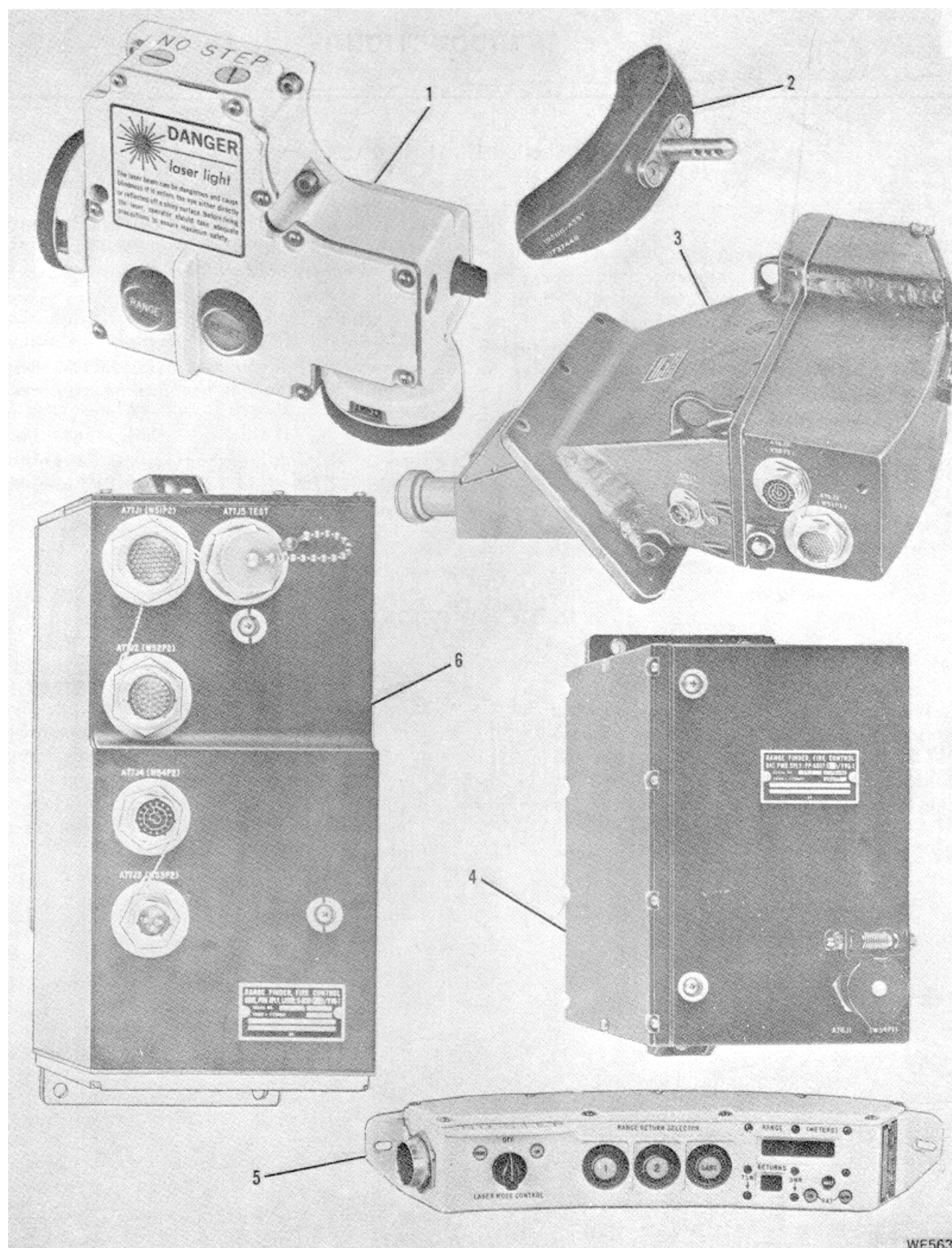


Figure 1-1. Fire Control Range Finder, (Laser). AN/VVG-1.