

TM 9-4931-477-14

TECHNICAL MANUAL

**OPERATOR, ORGANIZATIONAL,
DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE**

FOR

**TARGET DESIGNATOR SET,
ELECTRO-OPTICAL**

AN/TVQ-2 (G/VLLD)

GROUND SUPPORT EQUIPMENT

(GROUND LASER LOCATOR DESIGNATOR)

This copy is a reprint which includes current
pages from Changes 1 through 2.

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REPORTING OF ERRORS

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CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE

This manual provides operator, organizational, and direct support/general support (DS/GS) instructions for maintenance and operation of the Ground Support Equipment (GSE) of the Target Designator Set, Electro-Optical, AN/TVQ-2, also referred to as Ground/Vehicular Laser Locator Designator (G/VLLD). Theory of operation for the GSE and troubleshooting procedures are also contained in this manual. A list of current References, the Maintenance Allocation Chart, the Components of End Item and Basic Issue Items Lists, the Expendable/Durable Supplies and Materials List, Wiring Lists, Torque Tables, and installation and maintenance procedures for Electronic Shop Shelter AN/ASM-146C Safety Interlock are included in the appendices to this manual.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS

a. General. All personnel and organizations responsible for operating or maintaining the GSE are responsible for the preparation and disposition of U.S. Army equipment records.

b. Authorization Forms. Forms that are required for operation and maintenance of equipment are listed and explained in DA PAM 738-750. A complete list of Department of the Army (DA) forms is given in DA PAM 25-30.

Reports of Accidents. Any accident that injures personnel or damages equipment shall be reported as required by AR 385-40.

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to the address stated in DA PAM 738-750.

1-4. PREPARATION FOR STORAGE OR SHIPMENT

No special procedures are required.

1-5. DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE

No special procedures for destruction of the GSE are required. Evacuation rather than destruction, whenever possible, is first priority.

1-6. NOMENCLATURE CROSS-REFERENCE

Common names used in this manual are listed in Table 1-1.

Table 1-1. Nomenclature Cross-Reference

Official Nomenclature	Part Number	Common Name
Adapter Assembly, Purging	11507835	Purge Valve Adapter
Cable Assembly, Charger, Battery	13034390	Battery Charger Cable
Cable Assembly, Power	11507839	Power Cable M2
Cable Assembly, Remote Capabilities Tester	11559506	RCT Cable W2
Cable Assembly, Test	11508261	Test Cable W1
Case, Combination	11507842	Case
Case, Combined - Remote Capabilities Tester	11559504	Combined Case
Charging Assembly, Gas	13012630	High Pressure Gage
Circuit Card Assembly - Fault Locator, Logic	13160370	Logic Card A1
EMI Filter Assembly	11559640	EMI Filter
Fault Locator Panel Assembly	11507820	Panel
G/VLLD Ground Support Equipment	13090516	Ground Support Equipment or GSE
HP 62683 DC Power Supply	62686010-026	HP Power Supply
Panel Assembly, Remote Capabilities Tester	11559501	RCT Panel
Remote Capabilities Tester	11559500	RCT
Resolver Assembly, Gimbal Calibration	11508483	Test Resolver
Target Designator Set, Electro-Optical AN/TVQ-2 (G/VLLD)	13090500	G/VLLD
Wiring Harness, Branched - Fault Locator	11507845	Harness