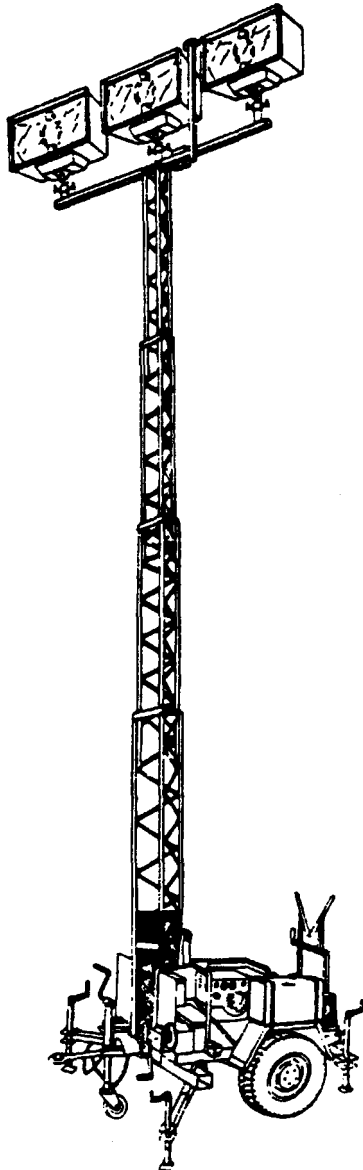


TECHNICAL MANUAL

OPERATOR, UNIT, AND
DIRECT SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS
AND SPECIAL TOOLS LIST



FLOODLIGHT SET,
TRAILER MOUNTED
HIGH-LITE
CORPORATION
MODEL HLT-3K-5K-MIL
SERIAL NUMBERS
6301A THRU 6909A
(NSN) 6230-01-056-5238

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This manual supersedes TM 5-6230-210-13&P dated 15 September 1982, including all changes.

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TECHNICAL MANUAL
NO. 9-6230-210-13&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 September 1995

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt/%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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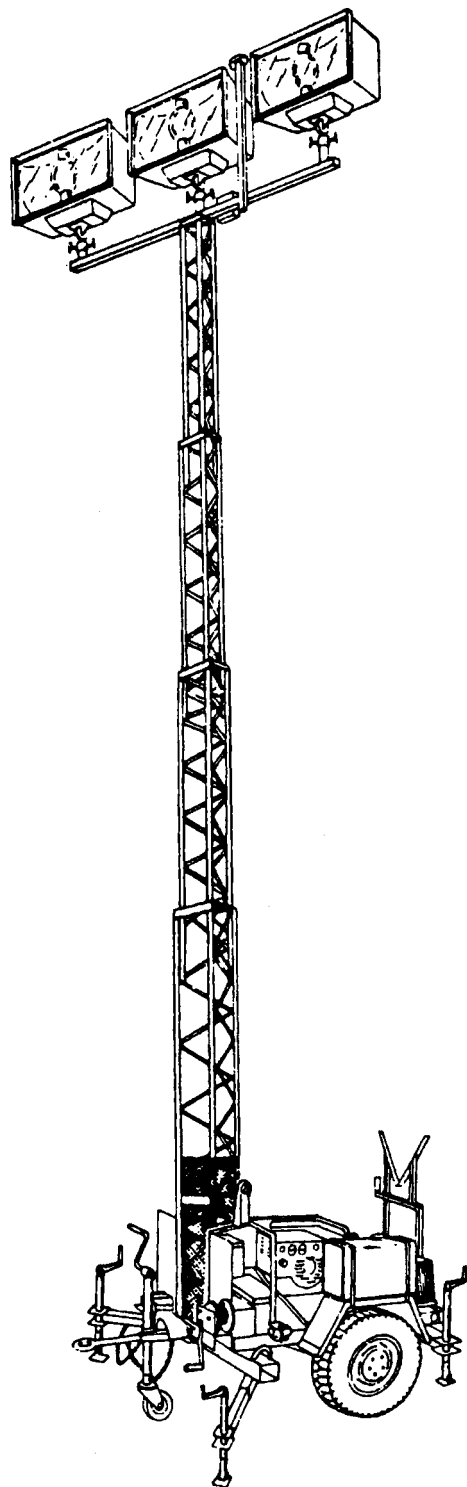


Figure 1-1. Floodlight Set With Tower Extended

CHAPTER 1 INTRODUCTION

SECTION I. GENERAL INFORMATION

1.1 SCOPE.

a. **Type of Manual.** Operator, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List.

b. **Model Number and Equipment Name.** Model HLT-3K-5K-MIL, Floodlight Set.

c. **Purpose of Equipment.** The floodlight set provides 300,000 lumens of illumination for adequate area and point lighting for construction, maintenance, or emergency service. The set also provides illumination for service support activities at construction or maintenance field locations.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS); or AR 700-138, Army Logistics Readiness and Substantiality.

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Destruction of Army equipment to prevent use shall be in accordance with TM 750-244-3.

1-4. PREPARATION FOR STORAGE AND SHIPMENT.

Refer to Section VI, Chapter 4, Unit Maintenance Instructions.

1-5. QUALITY ASSURANCE (QA) PROCEDURES.

Any critical procedure or parts of procedures in this TM which require quality assurance inspections are identified by "(QA)" written after the applicable step.

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATION (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 or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Aviation and Troop Command, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798, ATTN: AMSAT-I-MP. We will send you a reply.

1-7. LIST OF ABBREVIATIONS.

ac	Alternating current
amp	Ampere
awg	American wire gage
BT	Battery

C	Centigrade
CB	Circuit Breaker
cm	Centimeter
cu	Cube
dc	Direct Current
DS	Floodlight
F	Fahrenheit
ft	Foot/feet
GP	Generator Panel
HID	High Intensity Discharge
Hz	Hertz
JB	Junction Box
kg	Kilogram
Kph	Kilometers per hour
kW	Kilowatt
L	Lamp Ballast
lb	Pound (s)
lg	Length
m	Meter
mph	Miles per hour
P	Plug
RWL	Red Warning Light
SPST	Single Pole Single Throw
Sq.Ft	Square Foot (Feet)
TS	Terminal Strip
UL	Universal Laboratory
V	Volts
vac	Volts alternating current
w	Watt (s)

1.8 CORROSION PREVENTION AND CONTROL (CPC).

a. Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements made to prevent the problem in future items.

b. While corrosion is typically associated with rusting of metal products, it can also include deterioration of other materials, such as rubber, plastic, or treated canvas. Unusual cracking, softening, swelling or breaking of the materials may be a corrosion problem.

c. If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report. Using key words such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem.

d. The form should be submitted to the address specified in DA Pam 738-750.

SECTION II. EQUIPMENT DESCRIPTION AND DATA

1.9 EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. Characteristics . The Model HLT-3K-5K-MIL Floodlight Set provides light for construction, maintenance, and other service and support activities in order to continue their mission during the hours of darkness. The floodlight is shown in Figure 1-1. The set provides adequate area and point lighting for construction, maintenance, or emergency service and service supported activities at construction or maintenance field locations.

b. Capabilities and Features.

- (1) Trailer mounted.
- (2) Ground portable.
- (3) Quickly operable.
- (4) Air transportable.

(a) US Air Force and Canadian Royal Air Force cargo aircraft. The US Air Force has certified the Floodlight Set for air transport on C-5, C-130, and C-141 aircraft.

(b) US Army rotary wing aircraft. The Floodlight Set is air transportable as internal cargo aboard the CH-47 and CH-54 helicopters.

- (5) Gasoline fueled generator set.
- (6) Compact.
- (7) Furnishes lighting for an area up to six acres (24,160 sq meters) with 300,000 Lumens at the source.

1.10 LOCATION AND DESCRIPTION OF MAJOR Components.

Figure 1-2 illustrates the location and description of the major components for the Model HLT-3K-5K-MIL Trailer Mounted Floodlight Set.

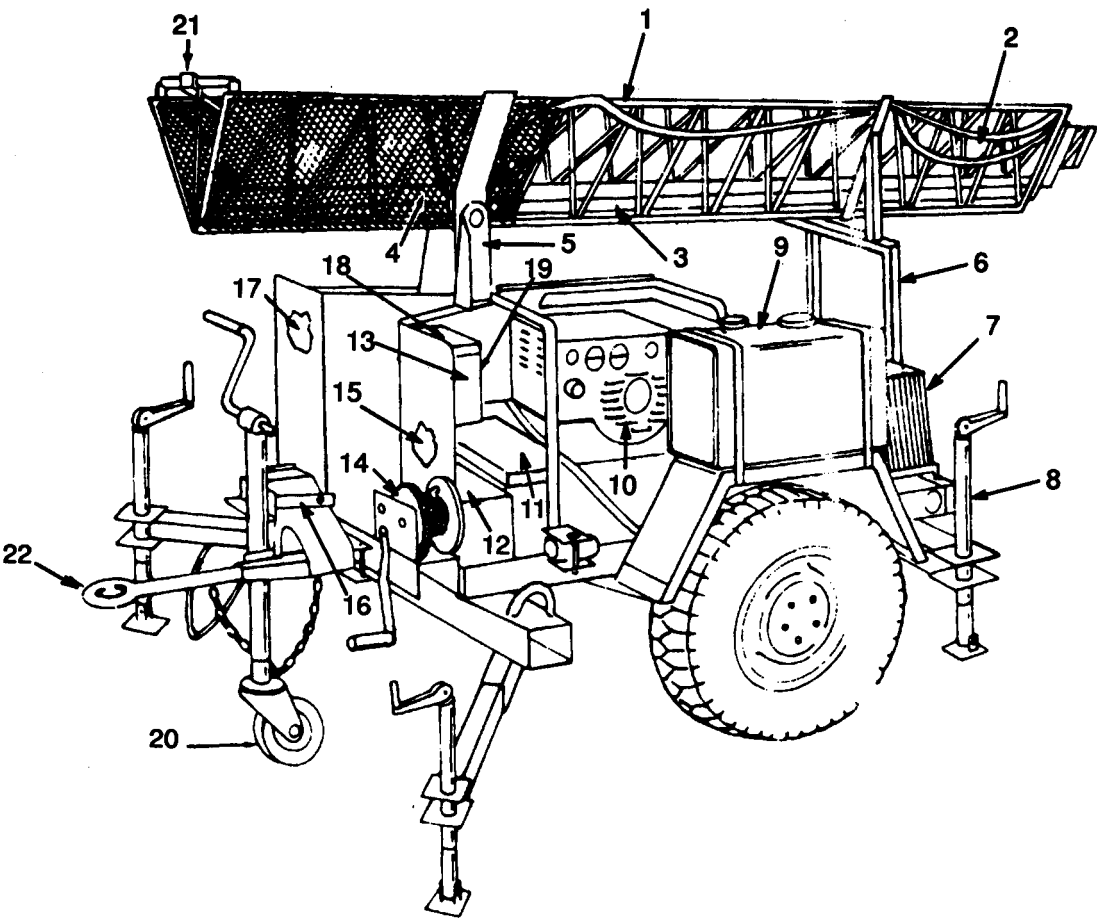


Figure 1-2. Location and Description of Major Components.