

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT
AND GENERAL OPERATOR,
ORGANIZATIONAL, DIRECT AND
GENERAL SUPPORT, AND DEPOT
MAINTENANCE MANUAL INCLUDING
REPAIR PARTS

GENERATOR SET, GASOLINE ENGINE:
0.125 KW, AC, 115 V, SINGLE PHASE,
400 CYCLE; SPECIAL PURPOSE;
PORTABLE; W/CARRYING CASE
(HOMELITE MODEL XLA115/1/400-1P)
SERIAL NUMBERS 2,330,386
THROUGH 2,331,917 FSN 6115-930-9498

This copy is a reprint which includes current
pages from Changes 1 through 3

HEADQUARTERS, DEPARTMENT OF THE ARMY

JULY 1967

TECHNICAL MANUAL

No. 5-6115-405-15

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 11 July 1967

**Operational, Organizational, Direct And General Support
And Depot Maintenance Manual Including Repair Parts
GENERATOR SET, GASOLINE ENGINE: 0.125 KW, AC,
115 V, SINGLE PHASE, 400 CYCLE; SPECIAL PURPOSE;
PORTABLE; W/CARRYING CASE (HOMELITE MODEL
XLA115/1/400-1P) SERIAL NUMBERS 2,330,386
THROUGH 2,331,917, FSN 6115-930-9498**

		Paragraph	Page
CHAPTER	1. INTRODUCTION		
Section	I. General	1-1, 1-2	1-1
	II. Description and tabulated data	1-3 - 1-5	1-1 - 1-3
CHAPTER	2. INSTALLATION AND OPERATION INSTRUCTIONS		
Section	I. Service upon receipt of equipment	2-1 - 2-5	2-1
	II. Movement to new worksite	2-6, 2-7	2-2
	III. Controls and instruments	2-8, 2-9	2-2
	IV. Operation of equipment	2-10 - 2-19	2-4, 2-5
CHAPTER	3. OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section	I. Special tools and equipment	3-1, 3-2	3-1
	II. Preventive maintenance services	3-3 - 3-5	3-1, 3-2
	III. Operator's maintenance	3-6 - 3-12	3-4, 3-5
	IV. Troubleshooting	3-13 - 3-17	3-7, 3-8
	V. Radio interference suppression	3-18 - 3-21	3-8
	VI. Carburetor	3-22, 3-23	3-8
CHAPTER	4. DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE INSTRUCTIONS		
Section	I. General	4-1, 4-2	4-1
	II. Description and tabulated data	4-3, 4-4	4-1
CHAPTER	5. GENERAL MAINTENANCE INSTRUCTIONS		
Section	I. Special tools and equipment	5-1, 5-2	5-1
	II. Troubleshooting	5-3 - 5-6	5-9
	III. Radio interference suppression	5-7 - 5-9	5-9
	IV. Removal and installation of major components	5-10 - 5-14	5-10 - 5-15
CHAPTER	6. SPECIFIC REPAIR INSTRUCTIONS		
Section	I. Starter fan housing and ignition parts	6-1 - 6-4	6-1
	II. Generator	6-5 - 6-8	6-4
	III. Carburetor chamber	6-9 - 6-12	6-7
	IV. Engine	6-13 - 6-16	6-12
	V. Carburetor assembly	6-17 - 6-20	6-13 - 16-5
APPENDIX	A. REFERENCES		A-1
	B. BASIC ISSUE ITEMS LIST AND MAINTENANCE AND OPERATING SUPPLIES		B-1
	C. MAINTENANCE ALLIACATION CHART		C-1
	D. ORGANIZATIONAL, DIRECT, AND GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS LIST		D-1
INDEX			I-1

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for use by personnel to whom the Homelite Model XLA115/1/400-1P generator set is issued. Chapters 1 through 3 provide information on operation, preventive maintenance services, and organizational maintenance of equipment, accessories, components, and attachments. Chapters 4 through 6 provide information for direct and general support and depot maintenance. Also, included are descriptions of main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of basic issue items authorized the operator of this equipment, and the list of maintenance and operating supplies required for initial operation. Appendix C contains the maintenance allocation chart. Organizational, direct and general support repair parts and special tools are listed in appendix D.

c. Numbers in parenthesis following nomenclature callouts on illustrations indicate quantity; numbers preceding nomenclature callouts indicate preferred sequence.

d. DA Form 2028 (Recommended Changes to DA Publication) will be used for reporting discrepancies and recommendations for improving this equipment publication. This form will be completed by the individual using the manual and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPD, 4300 Goodfellow Blvd., St. Louis, Mo. 63120.

1-2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide for Vehicles and Equipment).

b. For other record and report forms applicable to operator, crew, and organizational maintenance, refer to TM 38-750.

Note

Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicle Operator's identification card) which is carried by the operator, shall be kept in the publications case mounted in the carrying case cover.

Section II. DESCRIPTION AND TABULATED DATA

1-3. Description

a. General. The Homelite Model XLA115/1/400-1P generator set (figs. 1-1 and 1-2) is a gasoline operated lightweight, hand-portable, self-contained generator set that produces 125-watt, 400-cycle, single-phase, 115volt, ac (alternating current) power.

b. *Engine.* The engine is a single-cylinder, two-stroke-cycle unit that operates on a mixture of motor oil and gasoline in the ratio of 1 part OE-30 oil (FSN 9150-

265-9433) to 32 parts gasoline. The starter is of the recoil type. The engine speed is regulated to 4000 rpm by means of a centrifugal governor which controls the throttle.

c. *Generator.* The generator is of the permanent magnet type. The stator is secured to the main frame, and the permanent magnet rotor is keyed to a shaft which is in turn screwed onto the engine crankshaft with a left-hand thread.