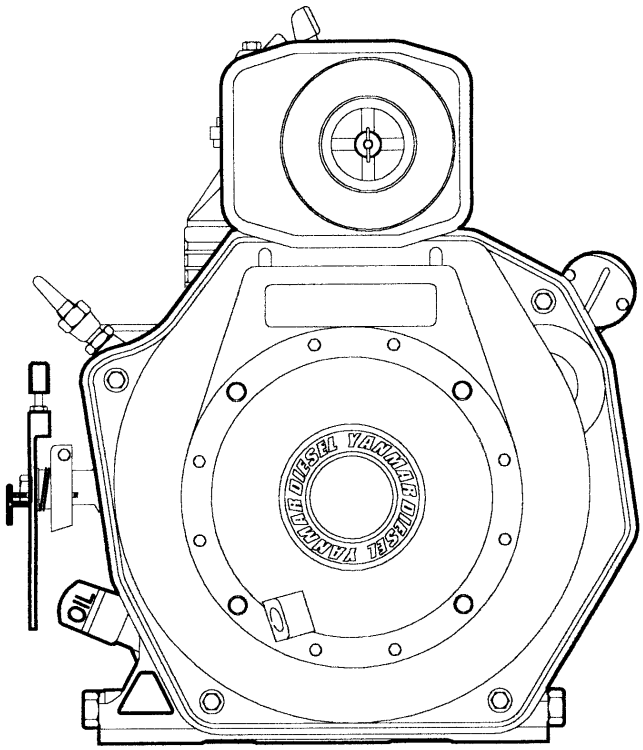
ARMY TM 9-2815-257-24
AIR FORCE TO 38G1-128-2
MARINE CORPS TM 10155A/2815-24/3

UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL



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DIESEL ENGINE ASSEMBLY
MODEL L70AE-DEGFR
(NSN: 2815-01-465-5993) (EIC: N/A)

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1 November 2000

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TECHNICAL MANUAL
ARMY TM 9-2815-257-24
AIR FORCE TO 38G1-128-2
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DEPARTMENTS OF THE ARMY,
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WASHINGTON, D.C. 1 November 2000

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FOR

DIESEL ENGINE ASSEMBLY
MODEL L70AE-DEGFR
(NSN: 2815-01-465-5993) (EIC: N/A)

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 the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Form) or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Communications and Electronics Command (CECOM), ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, NJ 07703-5000. The FAX number is 732-532-1413, DSN 992-1413. You can also E-mail your recommendations to AMSEL-LC-LEO-PUBS-CHG @cecom3.monmouth.army.mil.

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How to Use This Manual

1. DESCRIPTION OF THE MANUAL.

a. **Chapter Organization.** This manual has five chapters covering: introductory information, principles of operation, unit maintenance instructions, direct support maintenance instructions, and general support maintenance instructions. Each chapter is divided into sections. These sections contain the cleaning, inspection, troubleshooting, and repair tasks appropriate for the specific maintenance level. Each chapter contains a table of contents containing the tasks within that chapter. See the overall Table of Contents (page i) for the chapters and sections of this manual.

b. **Paragraph and Task Numbering.** All paragraphs and maintenance tasks are numbered. This helps you find what you need when you need it. Use the Table of Contents (page i) or alphabetical index (at the back of the manual) to find the paragraph or task you need.

c. **Appendices.** The appendices in this manual contain both general maintenance information and specific data for this engine. They list reference manuals and materials, components of the engine assembly, additional authorization list items, expendable supplies and materials, torque limits, and mandatory replacement parts. Refer to the Table of Contents (page i) for a complete list of the appendices used in this manual.

2. HOW TO FIX AN ENGINE MALFUNCTION.

a. **Determining the Cause.** Figuring out the cause of the malfunction, or troubleshooting, is the first step in fixing the engine assembly and returning it to operation. Follow these steps to determine the root of your problem:

(1) Turn to the Table of Contents section in this manual (page i).

(2) Locate “Troubleshooting” for your maintenance level and turn to the page indicated.

(3) In the Troubleshooting section, find the troubleshooting symptom for the component affected by the malfunction. Refer to the Symptom Index for help.

NOTE

If the specific symptom is not addressed, the maintenance required is most likely more detailed than authorized for your level. Notify personnel at a higher maintenance level.

(4) Begin troubleshooting. Carefully work your way down through the troubleshooting table to try and determine what the problem is.

(5) Once the trouble has been determined, go to the maintenance task called out. Remedy the malfunction, test the engine, and return it to service.