

**DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENACE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)**

**ENGINE, DIESEL:
8-CYLINDER
TURBOCHARGED,
DETROIT DIESEL
CORPORATION
MODEL 8V92TA**
NSN 2815-01-257-3879

Approved for public release; distribution is unlimited.

TABLE OF CONTENTS
PAGE i

INTRODUCTION
PAGE vi

EQUIPMENT DESCRIPTION
PAGE 1-1

**MAINTENANCE
INSTRUCTIONS**
PAGE 2-1

TROUBLESHOOTING
PAGE 2-7

**APPENDIX A
REFERENCES**
PAGE A-1

**APPENDIX C
EXPENDABLE SUPPLIES AND
MATERIALS LIST**
PAGE C-1

**APPENDIX D
ILLUSTRATED LIST OF
MANUFACTURED ITEMS**
PAGE D-1

**APPENDIX E
TORQUE LIMITS**
PAGE E-1

**ALPHABETICAL
INDEX**
PAGE INDEX 1

HOW TO USE THIS MANUAL

This manual is designed to help maintain the M977 series 8V92TA Diesel Engine. Listed below are some of the special features which have been put in to help locate and use needed information.

- The front cover index provides a quick reference to chapters and sections that will be used often.
- The appendixes are located at the end of the manual. They contain a reference guide to other manuals, a list of expendable supplies and materials, a manufactured items list, and tables for torque values.
- Subject headings and certain other essential information are printed in bold type throughout the manual to make them more visible.
- The maintenance tasks describe what has to be done to the vehicle before starting the task, and what must be done to return the vehicle to operating condition after the task is finished.
- Instructions are provided in paragraph 2-8 for a complete teardown/buildup of the engine in disassembly/reassembly sequence.
- Certain parts with wear limitations may be checked by referring to the Cleaning/Inspection portion of the task. If the measurement falls within wear limits, it may not be necessary to remove/replace.

The manual is divided into chapters containing direct support and general support maintenance procedures. These procedures describe a number of things such as:

 What will be needed to do the job.

 If any assistance will be needed.

 Important safety precautions.

In addition to the text, there will be an exploded-view illustration of most steps. This illustration is keyed to the text and shows how to take the part off and put it on. Cleaning and inspection procedures are also included when required.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

- Become familiar with the entire maintenance procedure before beginning a maintenance task.
- Read all **WARNINGS** and **CAUTIONS** before performing any procedures.

