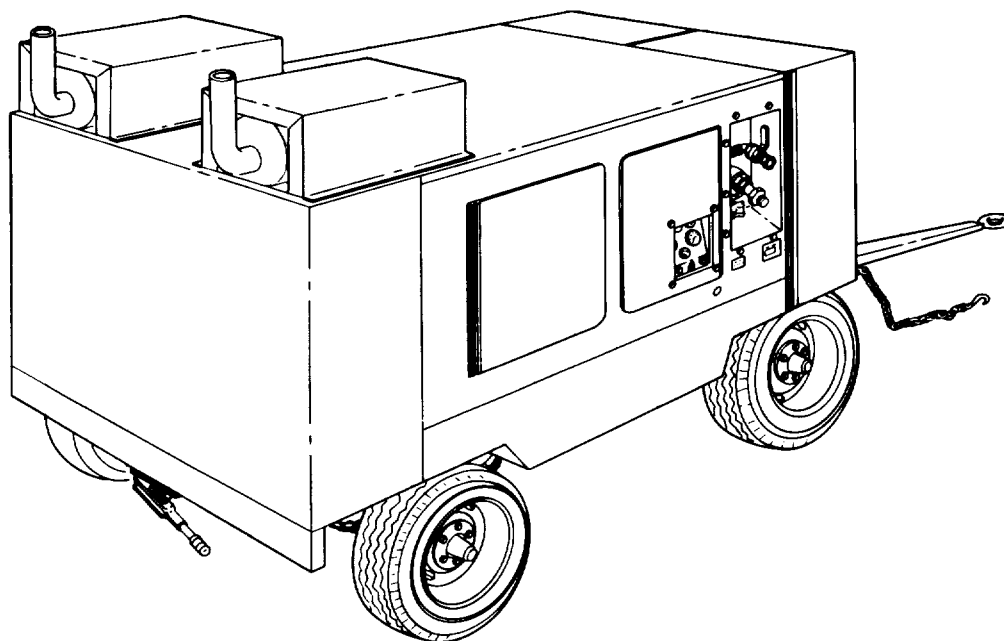


**TECHNICAL MANUAL
OPERATOR'S, UNIT, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL
FOR
COMPRESSOR, AIR: ROTARY SCREW, 750 CFM,
100 PSI , WHEEL-MOUNTED, DED
SULLAIR MODEL 750 DP
(NSN 4310-01-053-3891)**



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**This manual and TM 5-4310-451-24P supersede TM 5-4310-451-14&P,
dated 14 December 1979, and all changes.**

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

MAY 1993

TECHNICAL MANUAL
TM 5 431W-451-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 3 May 1993

**OPERATOR'S, UNIT, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL**

**FOR
COMPRESSOR, AIR: ROTARY SCREW, 750 CFM,
100 PSI, WHEEL-MOUNTED, DED
SULLAIR MODEL 750 DP
(NSN 4310-01-053-3891)**

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 Forms), or DA Form 2028-2, located in the back of this manual, direct to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

This manual is designed to help maintain the Sullair Model 750 DP, 750 CFM Air Compressor Unit. It describes in detail the Operator/Crew, Unit, Direct Support, and General Support Maintenance prescribed by the Maintenance Allocation Chart (see Appendix B) and the Source, Maintenance, and Recoverability (SMR) Codes (see TM 5-4310-451-24P).

FEATURES OF THIS MANUAL:

- Bleed-to-edge indicators on the cover and on the edge of the applicable manual pages provide quick access to chapter and sections most often used.
- A table of contents is provided for all chapters, sections, and appendices.
- WARNINGS, CAUTIONS, and NOTES, subject headings, and other important information are highlighted in bold print as a visual aid.
- Statements and words of particular importance are printed in capital letters to create emphasis.
- Instructions are located together with illustrations that show the specific task on which the maintainer is working.
- Equipment locator illustrations are provided throughout the maintenance procedures. These illustrations are for use in locating components and assemblies of the overall equipment. It should be noted that the locator illustrations do not always reflect the equipment condition listed in the initial setup at the beginning of each task.
- An alphabetical index is provided at the end of the manual to assist in locating information not readily found in the table of contents.
- Technical instructions include metric in addition to standard units. A metric conversion chart is provided on the inside back cover.
- A standard torque chart is provided at Appendix G.

FOLLOW THESE GUIDELINES WHEN YOU USE THE MANUAL:

- The maintainer should read through this manual and become familiar with its contents before proceeding to specific maintenance tasks.
- A warning summary is provided at the beginning of this manual and should be read before performing any maintenance tasks.
- In the actual maintenance tasks, follow all WARNINGS, CAUTIONS, and NOTES. These are given immediately preceding the procedural steps to which they apply. If these instructions are not followed or care is not taken, injury to personnel or equipment damage may result.
- Within a chapter, section, or paragraph, headings are used to help group the material and assist in quickly finding tasks. Read all preliminary information found at the beginning of each task. After completing a task, ALWAYS perform the follow-on maintenance at the end of the task.
- A subject index is located at the beginning of each section to help you find the exact paragraph you need.

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CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

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1-1. SCOPE.

This manual describes the operation and Unit, Direct Support, and General Support Maintenance for the 750 CFM Air Compressor Unit.

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

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Form 738-750, The Army Maintenance Management System (TAMMS).

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

For destruction of Army materiel to prevent enemy use, refer to TM 750-244-3.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

For information on preparing the 750 CFM Air Compressor Unit for storage or shipment, refer to Chapter 4, Section XXII.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your air compressor unit 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 Form 368 (Product Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We will send you a reply.