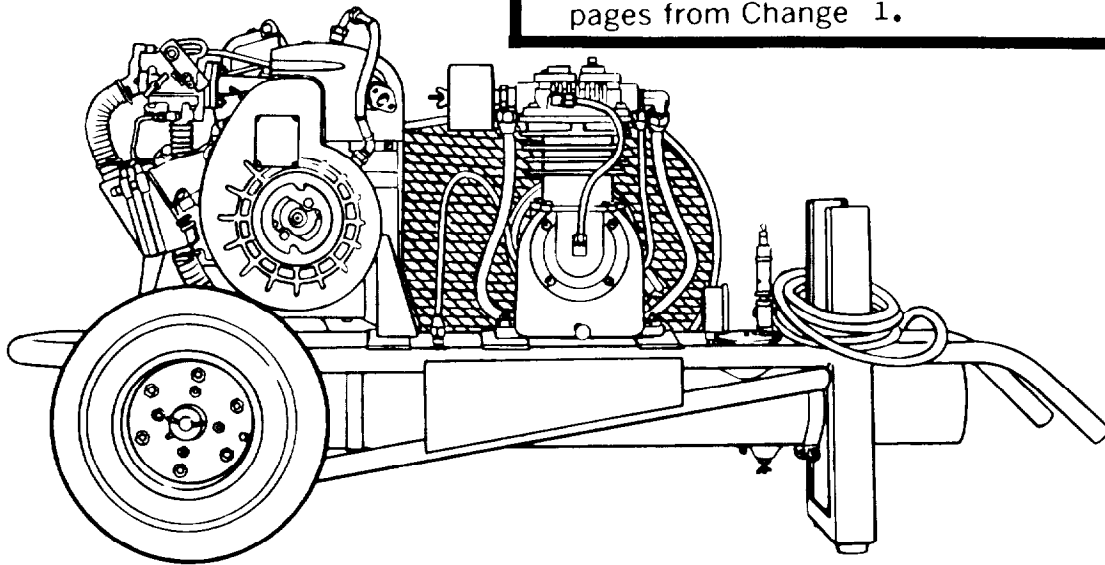


TECHNICAL MANUAL
OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL

This copy is a reprint which includes current
pages from Change 1.



COMPRESSOR, RECIPROCATING: AIR:
HANDTRUCK MOUNTED, GASOLINE ENGINE
DRIVEN 5 CFM, 175PSI
(C & H DISTRIBUTORS MODEL 20-902/3)

NSN 4310-01-055-0594

HEADQUARTERS, DEPARTMENT OF THE ARMY
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HEADQUARTERS
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WASHINGTON, D.C., 25 MAY 1979

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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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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope.

This manual is for your use in operating and maintaining the Model 20-902/3 Reciprocating Air Compressor. Chapters 2 and 3 provide information on operation, preventive maintenance services, and operator's maintenance of equipment, accessories, components and attachments. Chapter 4 provides information for organizational maintenance. Chapters 5 and 6 provide information for direct and general support maintenance. Also included are descriptions of main units and their functions in relationship to other components.

1-2 Maintenance Forms and Records.

a. Equipment maintenance forms and procedures for their use are contained in TM 38-750, The Army Maintenance Management System (TAMMS).

b. Hand receipts for the End Item/Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items are published in a Hand Receipt Manual. The Hand Receipt Manual numerical designation is the same as the related Technical Manual with the letters HR added to the number. These manuals are published to aid in property accountability and are available through: Commander, US Army Adjutant General Publication Center. ATTN. AGDL-OD, 1655 Woodson Road, St. Louis. MO 63114.

1-3. Reporting Equipment Improvement Recommendations (EIR'S).

EIR can and must be submitted by anyone who is aware of an unsatisfactory condition with the equipment design or use. It is not necessary to show a new design or list a better way to perform a procedure, just simply tell why the design is unfavorable or why a procedure is difficult. EIR may be submitted on SF 368 (Quality Deficiency Report). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. Mail directly to Commander Headquarter, U.S. Army Troop Support and Aviation Material Readiness Command, ATTN: DRSTS-MEM, 4300 Goodfellow Blvd., St. Louis, Missouri 63120. A reply will be furnished directly to you.

1-4. Warranty Information.

All components of the Reciprocating Air Compressor with the exception of the engine are warranted by C & H Distributors Inc. for a period of 17 months. The warranty starts on the date found in block 23, DA Form 2408-9, in the logbook. Report all defects in material or workmanship to your supervisor, who will take appropriate action through your organizational maintenance shop.

Section II. EQUIPMENT DESCRIPTION

1-5. Purpose of the Air Compressor.

A portable, handtruck mounted air compressor for inflating tires and running pneumatic equipment in the field.

1-6. Capabilities and Features.

- Delivers 5 cfm of air at 175 psi.
- Handtruck mounted
- Gasoline engine driven
- Incorporates air hose and inflator gage
- All weather operational
- Highly portable

1-7. Location & Description of Major Components.

ENGINE (1). Single cylinder, 4 cycle, air cooled, 1.5 hp, gasoline engine. Refer to TM 5-2805-208-14 for detailed description.

AIR CLEANER (2). Dry type. Element may be removed and cleaned.

COMPRESSOR (3). 2-stage design. 5 cfm, 175 psi output.

HANDTRUCK (4). Welded aluminum frame with pneumatic tires.

COMPRESSOR DRIVE AND BELT GUARD (5). Two matched V belts transmit power. Belt guard protects operator as well as pulleys and flywheels.

AIR TANK (6). Aluminum tank with pressure gage, draincock, shutoff valve, and unloader valve.

AIR HOSE AND INFLATOR GAGE (7). 50ft rubber hose. Inflator gage equipped with regular and jumbo size air chucks.

FUEL TANK (8). Welded aluminum construction with strainer type fill opening.

