

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

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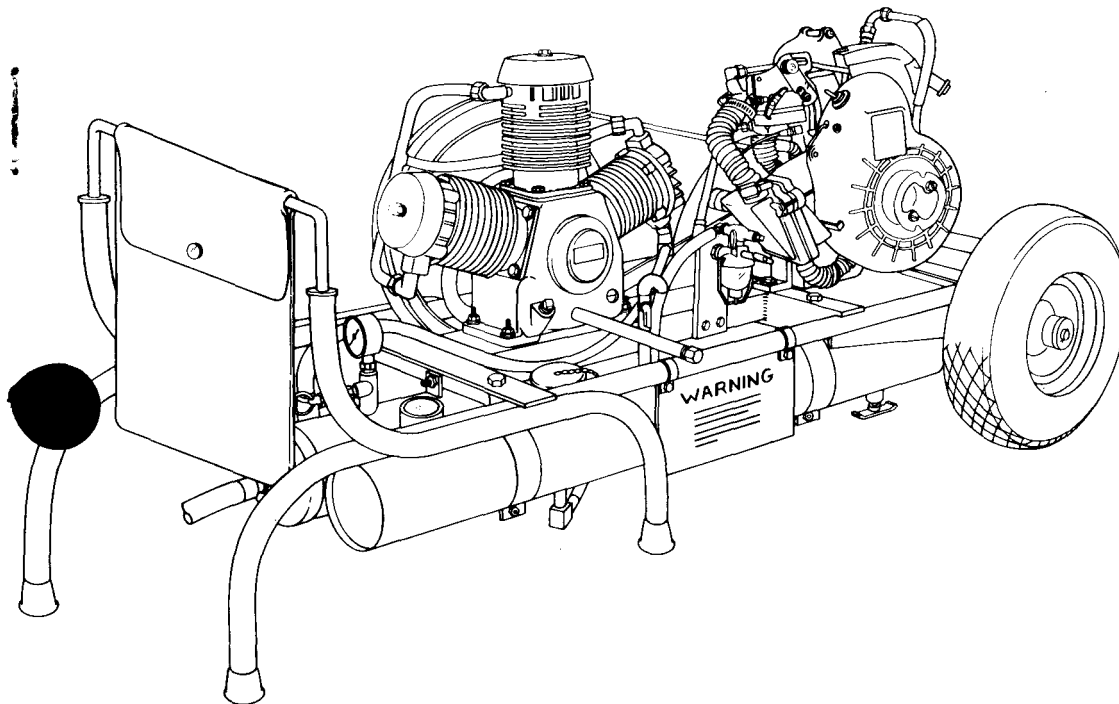
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**COMPRESSOR, RECIPROCATING: AIR:
HANDTRUCK MOUNTED, GASOLINE ENGINE
DRIVEN 5CFM, 175 PSI
MELLEY ENERGY SYSTEMS, INC. MODEL IS-7.95-5CFM,
NSN 4310-01-080-5754**

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COMPRESSOR, RECIPROCATING: AIR: HANDTRUCK
MOUNTED, GASOLINE ENGINE DRIVEN 5CFM, 175 PSI
MELLEY ENERGY SYSTEMS, INC. MODEL IS-7.95-5CFM,
NSN 4310-01-080-5754

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake 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 Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

1-2. This manual is for your use in operating and maintaining the Model IS-7.95-5CFM Reciprocating Air Compressor. Chapters 2 and 3 provide information on operation, preventative 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.

1-3. Maintenance Forms and Records

1-4. Equipment maintenance forms and procedures for their use are contained in DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-5. Reporting Equipment Improvement Recommendations (EIR's)

1-6. 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 DA PAM 738-750, The Army Maintenance Management System. Mail directly to Commander Headquarters, U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Blvd. , St. Louis, Missouri 63120-1798. A reply will be furnished directly to you.

1-7. Warranty Information

1-8. All components of the Reciprocating Air Compressor with the exception of the engine are warranted by MelIey Energy Systems, for a period of 12 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.

1-9. Hand Receipt

1-10. Hand receipts for Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items are published in a Hand Receipt manual, TM 5-4310-369-HR. This manual is published to aid in property accountability and is available through: Commander, US Army Adjutant General Publication Center, ATTN: AGDL-OD, 1655 Woodson Road, St. Louis, MO 63114.

Section II. EQUIPMENT DESCRIPTION

1-11. Purpose of the Air Compressor

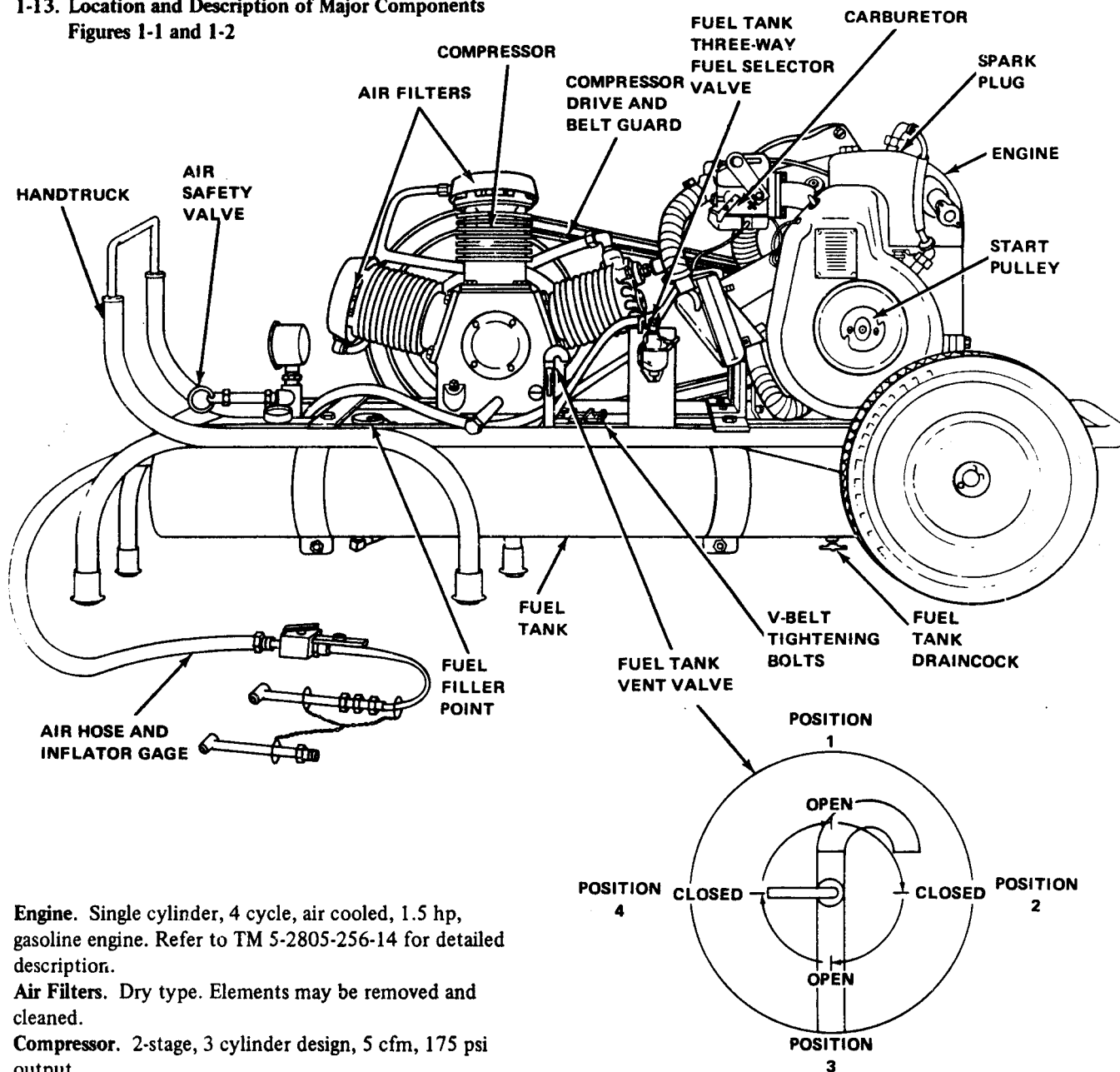
A portable, handtruck mounted air compressor for inflating tires and running pneumatic equipment in the field.

1-12. Capabilities and Features

a. Delivers 5 cfm of air at 175 psi

- b. Handtruck mounted
- c. Gasoline engine driven
- d. Incorporates air hose and inflator gage
- e. All weather operational
- f. Highly portable

1-13. Location and Description of Major Components
Figures 1-1 and 1-2



Engine. Single cylinder, 4 cycle, air cooled, 1.5 hp, gasoline engine. Refer to TM 5-2805-256-14 for detailed description.

Air Filters. Dry type. Elements may be removed and cleaned.

Compressor. 2-stage, 3 cylinder design, 5 cfm, 175 psi output.

Handtruck. Welded aluminum frame with pneumatic tires.

Compressor Drive and Belt Guard. Two matched V belts transmit power. Belt guard protects operator as well as pulley and flywheel.

Air Hose and Inflator Gage. 50 ft rubber hose. Inflator gage equipped with regular and jumbo size air chucks.

Fuel Tank. Welded steel construction with strainer type fill opening.

Spark Plug. Standard military spark plug.

Air Safety Valve. Preset at 200 psi.

Start Pulley. Pull-cord starting.

Carburetor. Fuel control.

Fuel Tank Three-Way Fuel Selector Valve.

Position 1 – Fuel ON

Position 2 – Fuel OFF

Position 3 – Fuel ON (Auxiliary Tank)

Position 4 – Fuel OFF

V-Belt Tightening Bolts. Controls tension of V-belts.

Fuel Filler Point. Opening to fuel tank.

Fuel Tank Draincock.

Fuel Tank Vent Valve.

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Figure 1-1. Compressor Model IS-7.95-5CFM