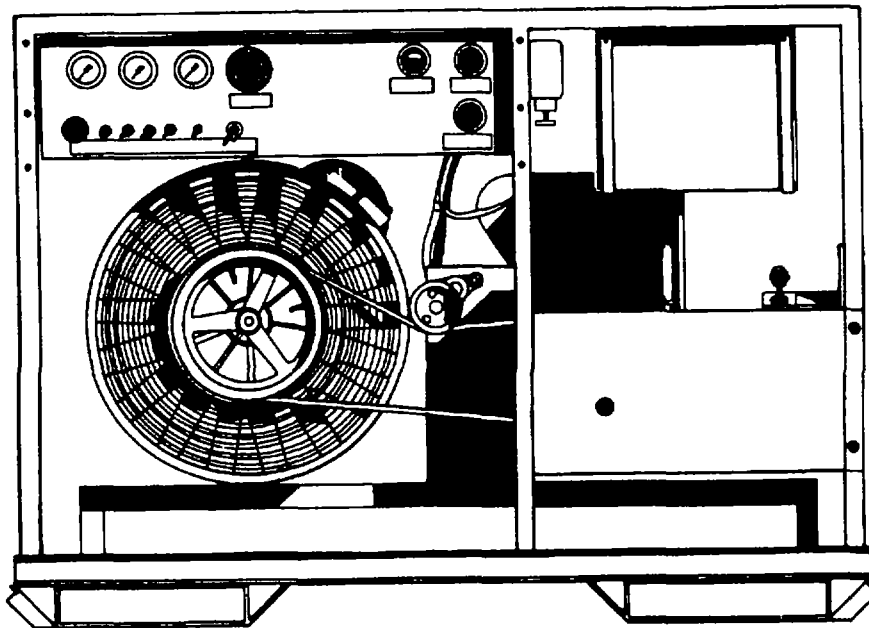


TECHNICAL MANUAL

OPERATOR, UNIT AND INTERMEDIATE
(DIRECT SUPPORT / GENERAL SUPPORT)
MAINTENANCE MANUAL



20 CFM COMPRESSOR DIVING AIR
MODEL K-20
NSN 4310-01-291-8028

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**Operator, Unit and Intermediate
Direct Support/General Support
Maintenance Manual**

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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 AND DESCRIPTION**

**Section I.
GENERAL INFORMATION**

1-1. SCOPE. This technical manual contains descriptive data, operating instructions, set-up and storage procedures, and maintenance instructions for a 20 cfm Compressor. The manufacturer's part number for the 20 cfm Compressor is Model K-20.

NOTE

Where possible, all dimensional values are given in the English system and Metric system. The metric values will appear in parenthesis beside the English system value.

1-2. PURPOSE. The purpose of the compressor unit (figure 1-1) is to provide purified high-pressure compressed air breathing for charging Type I and Type II manifold servicing units.

1-3. MAINTENANCE FORMS, RECORDS, AND REPORTS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR). If your K-20 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 or performance. Put it on an SF-368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Aviation Troop Command, ATTN: AMSAT-D-WTT, 4300 Goodfellow Blvd., St. Louis, Mo. 63120-1798. A reply will be furnished to you.

1-5. LIST OF ABBREVIATIONS.

cfm	Cubic feet per minute
rpm	Revolutions per minute
psi	Pounds per square inch
hp	Horsepower
cc.....	Cubic centimeters
qts.....	Quarts
IL	In-line
in.....	Inch
lbs.....	Pounds
psig	Pounds per square inch gauge
BAR	Bars
Nm.....	Newton meters
lb-.ft	Pound-feet

1-5. LIST OF ABBREVIATIONS (Contd).

CO	Carbon monoxide
CO ₂	Carbon dioxide
cu.ft.....	Cubic feet
gal	Gallon
PMCS	Preventive Maintenance Checks and Services
MAC	Maintenance Allocation Chart
PMV	Pressure maintaining valve
ACD	Automatic condensate drain
cm	Centimeter
mm	Millimeter
V	Volts

1-6 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. The procedures for destroying army materiel to prevent enemy use are listed in TM 750-2443.