TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST FOR DEGREASER MODEL AUC-81 (NSN 4940-00-356-9891)

HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1983

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Technical Manual

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HEADQUARTERS
DEPARTMENT OF THE ARMY
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DEGREASER
MODEL AUC-81
(NSN 4940-00-356-9891)

REPORTING OF ERRORS

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, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this equipment is issued.

Manufactured By: Alpha Ultrasonics & Electronics
P.O. Box 4361, 500 E. 6th St.
Panama City, FL 32401

Procured under Contract No. DAAA09-77-C-7012

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

INSTRUCTIONS FOR REQUISITIONING PARTS

NOT IDENTIFIED BY NSN

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

1 - Manufacturer's Federal Supply Code Number - 55735.

2 - Manufacturer's Part Number exactly as listed herein.

3 - Nomenclature exactly as listed herein, including dimensions, if necessary.

4 - Manufacturer's Model Number - AUC-81.

5 - Manufacturer's Serial Number (End Item).

6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.

7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

(a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 55735 followed by a colon and manufacturer's Part Number for the repair part.

(b) Complete Remarks field as follows:

Noun: (nomenclature or repair part)
For: NSN: 4940-00-356-9891
Manufacturer: Alpha Ultrasonics & Electronics
P.O. Box 4361, 500 E. 6th St.
Panama City, FL 32401

Model: AUC-81
Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.

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SECTION I - DESCRIPTION

1-1. Scope. a. This manual contains the operating and maintenance procedures recommended for the AUC-81 model stationary degreaser. The procedures consist of a description, installation and operating instruction, maintenance, repair and troubleshooting instructions and a listing of replacement parts.

b. Before servicing and operating this equipment, the operator should be thoroughly familiar with this manual.

WARNING

OBSERVE CUSTOMARY SAFETY PRECAUTIONS WHEN WORKING WITH HIGH VOLTAGES AND DANGEROUS CHEMICALS. BODILY INJURIES OR DEATH COULD OCCUR IF SAFETY PRECAUTIONS ARE NOT FOLLOWED.

1-2. General. a. The AUC-81 is a stationary, oil-fired, centrifugal impact type degreaser utilizing hot alkali (MIL-C-14460, Type 1) or cold petroleum solvents (Federal Specification O-T-236) as the cleaning solution. The equipment is specifically designed to meet the requirements of Size 2 degreasers described in Military Specification MIL-D-45099B(WC) and is intended for use in engine repair and rebuild shops for the removal of grease, sludge, and other foreign materials from vehicle engine parts and blocks. The cleaning action is effected by agitating a heated alkali solution or cold petroleum solution over the object being cleaned thus removing deposits of sludge, oil, metal chips, buffing compounds, varnish and paint from metal objects.

b. The degreaser tank is fabricated from steel of Standard number 10 gage and is reinforced with structural steel where required. The cover is fabricated from steel of Standard gage number 16 and may be fully removed to allow for the vertical insertion and removal of the work basket or any parts that are being cleaned. The tank rim is so constructed that solution dripping from parts being removed will drain back into the tank. A safety step with a non-skid surface is provided for the operator's use.

c. A sediment tank is located at the rear of the degreaser and the sediment can be removed while the tank is filled to normal capacity. A steel heavy duty work basket is supplied with the AUC-81 and is capable of holding at least 2,000 lbs of parts or engine blocks. Pad eyes are available on the basket to allow it to be lowered into the tank by chain fall. While in the tank, the work basket rests on supports to hold it above the tank base.

d. An overflow and drain is designed so as to carry off excess solution before it can overflow the tank. A water intake line with a shut off valve allows the operator to control the liquid level within the tank.