

TM 5-3431-203-15

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT AND
GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS)

WELDING MACHINE, ARC, INERT SHIELDED: TRANSFORMER;
300 AMP; 10 TO 400 AMP AC STRAIGHT POLARITY;
10 TO 00 AMP DC REVERSE POLARITY (MIDSTATES
MODEL MAG 00 AC/DC T 14) FSN 3431-862-6670



HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

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DEPARTMENT OF THE ARMY
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**Operator, Organizational, Direct and General Support
and Depot Maintenance Manual (Including Repair Parts)**

**WELDING MACHINE, ARC, INERT GAS SHIELDED:
TRANSFORMER; 300 AMP; 10 TO 400 AMP AC
STRAIGHT POLARITY; 10 TO 300 AMP DC REVERSE
POLARITY (MIDSTATES MODEL MAG 300 AC/DC T134)
FSN 3431-862-6670**

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***This manual supersedes TM 5-3431-203-15, 5 December 1962, including C1, 16 August 1963.**

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of the personnel to whom the Midstates Model MAG 300 AC/DC T134 Welding Machine is issued. Chapters 1 through 3 provide information on the operation, daily preventive maintenance services, and organizational maintenance of the equipment, accessories, components, and attachments. Chapter 4 provides information for direct and general support and depot maintenance. This manual also provides descriptions of the main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of basic issue items authorized for the initial operation. Appendix C contains the maintenance allocation chart. The organizational, direct and general support and depot maintenance repair parts lists are found in Appendix D.

c. Numbers in parentheses on illustrations indicate quantity.

d. DA Form 2028 (Recommended Changes

to DA Publication) will be used for reporting discrepancies and recommendations for improving this equipment manual. This form will be completed by the individual using the manual and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPD, 4300 Goodfellow Blvd. St. Louis, Mo. 63120.

e. Report all equipment improvement recommendations as prescribed by TM 38-750.

1-2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide for Vehicles and Equipment).

b. DA Form 1397 (processing and Deprocessing Record for Shipment, Storage, and Issue of Vehicle and Spare Engines).

c. For other record and report forms applicable to the operator and organizational maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card) which is carried by the operator shall be kept in a canvas bag mounted on the equipment.

Section II. DESCRIPTION AND DATA

1-3. Description

The Midstates Model MAG 300 AC/DC inert welding machine (figs. 1-1 and, 1-2) is operated from an external power source of either 230- or 460-volt, alternating current, and by single phase or three phase connections. This welder provides an electrically

controlled current output for use in either shielded inert gas welding or metallic arc welding. The entire control section is located in a drawer-type frame at the top of the welding machine. The panel permits the entire section to be disconnected and removed for ease of servicing.

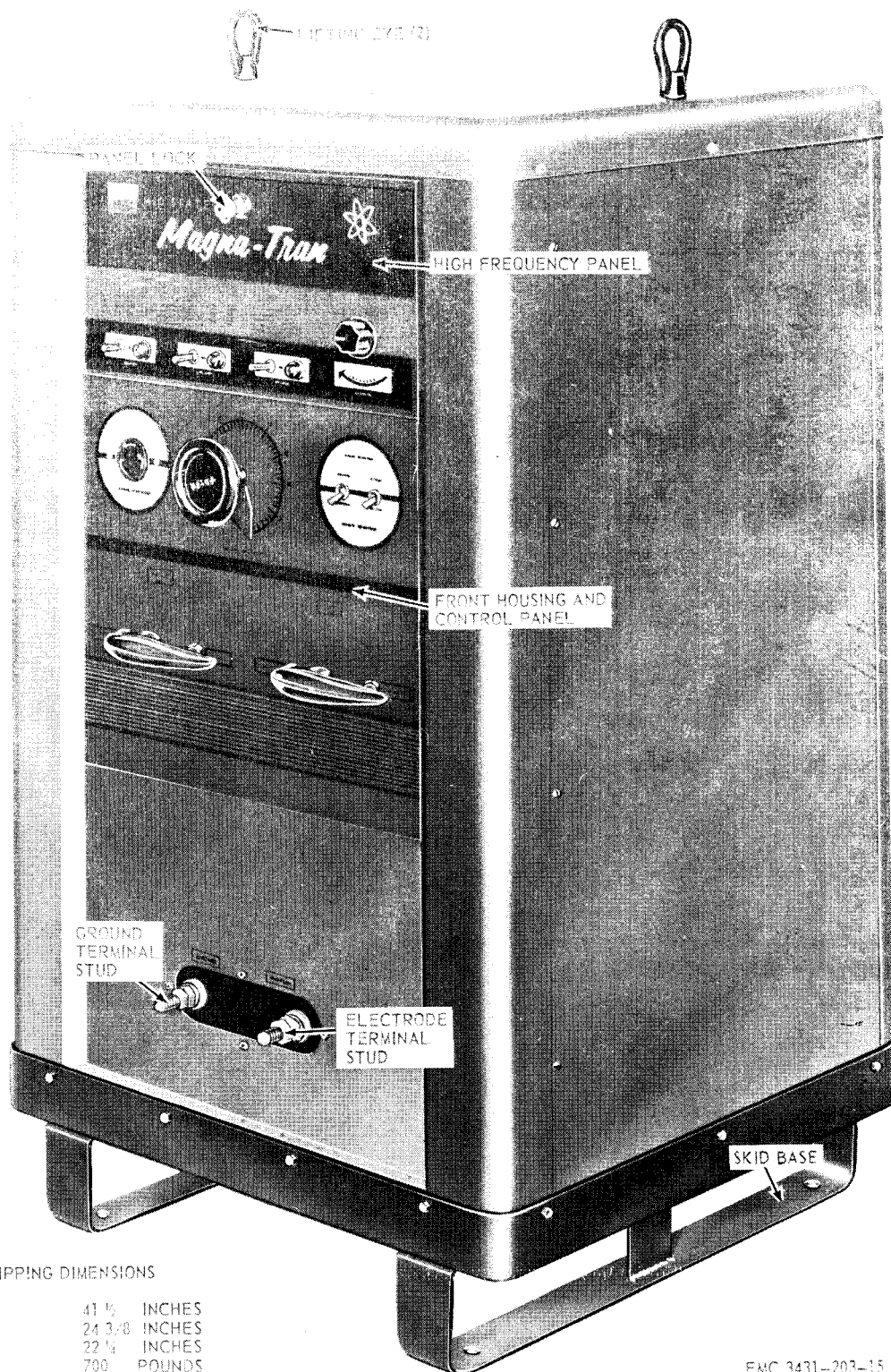


Figure 1-1. Welding machine, tight front, three-quarter view with shipping dimensions.