TM 5-4940-225-34

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL SHOP EQUIPMENT, ORGANIZATIONAL REPAIR TRUCK MOUNTED (SOUTHWEST TRUCK BODY MODEL SEORL) FSN 4940-169-3041 (SOUTHWEST TRUCK BODY MODEL SEORLT) FSN 4940-164-4719

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SHOP EQUIPMENT, ORGANIZATIONAL REPAIR, TRUCK MOUNTED

(SOUTHWEST TRUCK BODY MODEL SEORL)

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

The following instructions are provided for the use of direct and general support and depot maintenance personnel. They contain information on the maintenance of the equipment which is beyond the scope of the tools, equipment, personnel or supplies normally available to organizational maintenance facilities.

1-2. Forms and Records

DA Forms and records for equipment maintenance will be only those prescribed in TM 38-750.

1-3. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to the Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-4. Description

A complete description of the shop set and components is given in TM 5-4940-225-12.

1-5. Difference in Models

The difference in models is given in TM 5-4940-225-12.

1-6. Tabulated Data

a. Dynamotor- Welder.

Manufacturer . . . . . Hobart Brothers Co.
Model SMR-300

(1) *DC generator.*

Volts 40
Kilowatts 12
Amperes 300
Rpm (revolutions per minute) 1500/1800
Duty cycle 60percent

(2) AC *generator.*

Voltage 220
Amperes 56
Kilowatts 12
Power factor 0.8
Phase. 3
Cycle 50/60
Rpm 1500/ 1800
Duty cycle . . . . . 100 percent

(3) *Motor*

Voltage 240
Amperes 56
Phase 3
Cycle 50/60
Rpm 1500/ 1800
Horsepower 25

b. Dynamotor-Welder Repair and Overhaul Data.

(1) DC (direct current) welder armature winding.

Number of coils 33
Number of slots 33
Number of turns per coil 1
Coil pitch . . . . . 1 to 9
Commutator pitch . . . . . .1 to 50
Number of commutator bars. 99
Wire size . . . . . 3/32 in. (inch) X 3/8 in.
Wire type . . . . . Copper, Type T, heavy synthetic resin-coated per Military Specification MIL-W-583A
Winding type . . . . . Wave

(2) *Motor-alternator revolving field winding.*

Number of coils 4
Turns per coil 520
Turns parlayer. 36
Wire size . . . . . No. 1.5 AWG (American Wire Gage)
Type of wire Copper. Type T. heavy synthetic resin-coated per Military Specification MIL-W-783A

(3) *DC exciter armature winding.*

Number of coils 43
Number of slots 43
Turns percoil. 6
Coil pitch . . . . . 1 to 11
Commutator pitch 1 10 43
Number of commutator bars 85