

TM 5-4930-207-34

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL

LUBRICATING AND SERVICING UNIT, POWER
OPERATED: TRAILER MOUNTED 23 CFM
COMPRESSOR RECIPROCATING, GASOLINE DRIVEN
(HENRY SPEN MODEL 901765-1)
FSN 4930-017-9167

HEADQUARTERS, DEPARTMENT OF THE ARMY
22 APRIL 1970

TECHNICAL MANUAL }
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WASHINGTON, D.C., 22 April 1970

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This manual supersedes TM 5-4930-207-35, 18 May 1966.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual is published for the use of direct support and general support maintenance personnel maintaining the Henry Spen Model 901765-1 Lubricating and Servicing Unit. It provides maintenance information beyond the scope of the tools, equipment, personnel, or supplies normally available to using organizations.

1-2. Forms and Records

a. Maintenance forms, records, and reports

which are to be used by maintenance personnel at all levels are listed in and prescribed by TM 38-750.

b. 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. 69120.

Section II. DESCRIPTION AND DATA

1-3. Description

TM 5-4930-207-12 provides a general description of the unit; a more detailed description of specific components and assemblies is contained in the applicable sections of the manual.

1-4. Differences Between Models

This manual covers only the Henry Spen & Co. Model 901765-1 Lubricating and Servicing Unit. No known unit differences exist for the model covered by the manual.

1-5. Tabulated Data

a. *General.* This paragraph contains all overhaul data pertinent to direct support and general support maintenance personnel.

b. *Tabulated Data.*

(1) Refer to TM 64930-207-12 for complete tabulated data of the lubricating unit,

(2) *Engine data.* Refer to TM 5-280S-203-14 for tabulated data related to the gasoline engine, model 4A032-11.

(3) *Compressor nut and torque data.*

Cylinder Head -----55 ft-lbs.

Cylinder:

Nuts -----12 ft-lbs.

Studs -----55 ft-lbs.

Connecting Rod -----25 ft-lbs.

Valves -----20 ft-lbs.

(4) *Wiring diagram.* Refer to TM 5-4930-207-12 for wiring diagram.

(5) *Repair and replacement standards.* Figure 1-1 and table 1-1 lists the manufacturers sizes, tolerances, desired clearances, and maximum allowable wear and clearances for the compressor assembly.

Table 1-1. Compressor Clearance and Fitting Requirement

	Low pressure piston 4-1/8	High pressure piston (2-1/8)
Rod bearing to crank	.001-.002	.001-.002
Piston pin to piston	Light tap fit .0001-.0006 press	Light tap fit .0001-.0005 press
Piston pin to rod bearing	.006-.0010	.006-.0010
Piston side clearance	.006 feeler gauge	.002 feeler gauge
Piston ring end gap	.012-.025	.007-.017
Piston ring side clearance	.002-.004	.002-.004
Crankshaft end play	.007-.020	.007-.020