

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

COMPRESSOR, AIR, RECIPROCATING

POWER DRIVEN 15 CFM, 3500 PSI,

4 WHEEL MOUNTED, WINTERIZED

(STEWART-WARNER MODEL 12021A)

NSN 4310-00-231-5513

HEADQUARTERS, DEPARTMENT OF THE ARMY

6 JANUARY 1984

TECHNICAL MANUAL

No. 5-4310-346-20P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 6 January 1984

ORGANIZATIONAL MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
COMPRESSOR, AIR, RECIPROCATING
POWER DRIVEN 15 CFM, 3500 PSI,
4 WHEEL MOUNTED, WINTERIZED
(STEWART-WARNER MODEL 12021A)
NSN 4310-00-231-5513

Current as of 6 November 1983

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Troop Support Command, ATTN: DRSTR-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120. A reply will be furnished to you.

TABLE OF CONTENTS

	Listing Page	Illus Figure
SECTION I. INTRODUCTION	1	
II. REPAIR PARTS LIST	11	
Group 01. BODY, CAB, HOOD AND HULL		
Cover assembly and door	11	1
Panels, fuel tank and tool box assembly	13	2
02. FUEL SYSTEM		
Fuel system	15	4
Fuel system components	17	5
03. EXHAUST SYSTEM		
Engine exhaust and accessories	19	6
04. COMPRESSOR DRIVE		
05. ELECTRICAL		
Panel lights	21	8
Interior light and solenoid cable	23	9
Control panel-wiring and electrical components	25	10
Control panel-wiring and cables	27	11

*This manual supersedes TM 5-4310-346-20P, dated 23 May 1973, including all changes.

TABLE OF CONTENTS - Continued

		Listing Page	Illus Figure
	Battery box	29	12
06.	ENGINE.....		
	Engine, and accessories	31	13
07.	CLUTCH.....		
08.	WINTERIZATION EQUIPMENT		
	Winterization components	33	16
	Heater and related parts	35	17
09.	GAUGES		
	Gauges and Discharge Fittings	37	20
	Filter, hose and discharge fittings	39	21
	Gauge tubing	41	22
10.	PNEUMATIC EQUIPMENT		
	Compressor air cleaner	43	23
	Compressor assembly, adapter, mounts and oil drain	45	24
	Compressor vent filter element and dipstick	47	25
	Compressor oil filter and switch	49	26
	Tube clamps and mounting hardware	51	27
11.	UNLOADING SYSTEM.....		
	Relief valves, lines and fittings	53	34
	Moisture separator and relief valves	55	35
	Moisture separator	57	36
	Dump valves	60	37
12.	COMPRESSOR COOLING.....		
13.	AIR RECEIVER.....		
	Air reservoir components.....	65	41
14.	AIR DISCHARGE		
	Tubes and fittings-manifold.....	67	42
15.	ACCESSORY GROUP		
	Filter hose and discharge fittings	69	43
16.	DATA PLATES		
	Data plates	71	44
	Control panel-data plates	73	46
17.	FRONT AXLE		
	Front axle and draw bar	75	47
18.	REAR AXLE.....		
	Frame, running gear unit, tires, tubes and Components	77	48
19.	BRAKES.....		
20.	WHEELS		
	Wheels, tires, tubes, hub and components.....	79	50
	Brake drum and components	81	51
21.	FRAME, DRAWBAR AND TOWING ATTACHMENT		
	Frame and pintle	83	52
Section III.	Special Tools List (Not Applicable).....	84	
Section IV.	National Stock Number and Part Number Index	84	

ORGANIZATIONAL MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

Section I. INTRODUCTION

1. Scope.

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, maintenance of the air compressor. It authorizes the requisitioning and issue of repair parts as indicated by the source and maintenance codes.

2. General.

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.

b. Section III Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance. (Not Applicable.)

c. Section IV. National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbers (NSN) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. This index is followed by a cross-reference list of reference designators to figure and item numbers.

3. Explanation of Columns.

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration on which the item is shown.

(2) Item Number. The number used to identify item called out in the illustration.

b. Source, Maintenance and Recoverability (MR) Codes.

(1) Source Code. Source codes indicate the manner of acquiring support items for maintenance, repair or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
L	Repair restricted to designated Specialized Repair Activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Code	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.
F	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.