

TM 5-4520-208-25P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT AND GENERAL SUPPORT,
AND DEPOT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LISTS

HEATER, DUCT TYPE, PORTABLE GASOLINE,
400,000 BTU/HR, GASOLINE ENGINE AND ELECTRIC
MOTOR DRIVEN BLOWERS, W/6 AND 12 INCH
DIAMETER DUCTS, AUTOMATIC TEMPERATURE CONTROL,
TRAILER MOUNTED (AMERICAN AIR FILTER CO. INC
MODEL BT400-40) FSN 4520-792-8257 (AMERICAN AIR
FILTER CO, INC MODEL BT400-40-1) FSN 4520-930-9474

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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**Organizational, Direct and General Support, and Depot
Maintenance Repair Parts and Special Tools Lists****HEATER, DUCT TYPE, PORTABLE GASOLINE 400,000
BTU/HR, GASOLINE ENGINE AND ELECTRIC MOTOR
DRIVEN BLOWERS, W/6 AND 12 INCH DIAMETER DUCTS,
AUTOMATIC TEMPERATURE CONTROL, TRAILER MOUNTED
(AMERICAN AIR FILTER CO. INC MODEL BT400-40)
FSN 452-792-8257 (AMERICAN AIR FILTER CO. INC
MODEL BT400-40-1) FSN 4520-930-9474**

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SECTION I

INTRODUCTION

1. Scope

This manual contains a list of repair parts required for the performance of organizational, direct support, general support and depot maintenance of the heater.

2. General

This repair parts list is divided into four principal sections and a Federal stock number index.

a. Section II, Prescribed Load Allowance List (PLA), is a consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. This is a mandatory minimum stockage allowance.

b. Section III, Repair Parts List, is a list of repair parts authorized for the performance of maintenance at the organizational level. No special tools required for this end item.

c. Section IV, Repair Parts List, is a list of repair parts authorized for the performance of maintenance at the direct support general support, and depot level.

d. Section V, Federal stock number and Manufacturer's Part Number Index, is an index of Federal stock numbers and manufacturer's part numbers to page and manufacturer's codes.

e. Refer to TM 5-2805-208-14, for Repair Parts applicable to engine assembly.

f. Parts applicable to specific models of this end item are indicated by a letter symbol in the "description" column, following the nomenclature. Parts not indicated by a letter symbol apply to all models. The symbols apply as follow:

- (A)-applies to model BT 400-40 only
- (B)-applies to model BT 400-40-1. only

3. Explanation of Columns

The following provides an explanation of columns in the tabular lists.

a. Source, Maintenance, and Recoverability Codes.

- (1) Source Code indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Applied to repairs parts which are stocked in or supplied from DSA/GSA or Army supply system and authorized for use at indicated maintenance categories.
M	Applied in repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A	Applied to assemblies which are not procured or stocked as such but made up of two or more units, each of which carry individual stock numbers and descriptions and procured and stocked and can be assembled by units at indicated maintenance categories.
X1	Applied to repair parts which are not procured or stocked the requirement for which will be supplied by use of the next higher assembly or components.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.

Note. Source code is not shown on common hardware items known to be readily available in Army supply channels and through local procurement.

- (2) Maintenance Code indicates the lowest category of maintenance authorized to

install the listed item. The maintenance level codes are:

Code	Explanation
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

- (3) Recoverability Code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability code are:

Code	Explanation
	Applied to repair parts and assemblies which are economically repairable as DSU and GSU activities and normally are furnished by supply on an exchange basis.
T	Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U	Applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

b. Federal Stock Number indicates the Federal stock number for the item.

c. Description column indicates the Federal item name and brief description of the item. A five-digit manufacturer's or other service code is shown followed by the manufacturer's part number. Repair parts quantities included in kits, sets, and assemblies that differ from the actual quantity used in the specific item, are listed in parentheses following the repair part name.

d. Unit of Issue indicates the unit used as a basis of issue, e.g., es, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack indicates the actual quantity contained in the unit pack.

f. Quantity Incorporate in Unit indicates the actual number of parts used in the application. A zero is shown when components of kite or sets are listed that are not applicable to the specific end item.

g. Fifteen-Day Organizational Maintenance Allowance.

- (1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Unite and organizations authorized additional scribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.
- (3) Items identified by an asterisk may be requisitioned as required. Subsequent changes and/or additions to allowances will be limited to the provisions of AR 735-26. The range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.
- (4) Allowances are based on 4,000 hours of operation per year.

h. Thirty-Day DS/GS Maintenance Allowance.

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn is the quantity of items authorized for a number of equipment supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowance for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

i. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes indicates the quantity of items required for distribution and contingency planning purposes.

j. Depot Maintenance Allowance Per 100 Equipments indicates the total quantity of items recommended for depot maintenance of 100 equipment. Items recommended for immediate use only are identified with an asterisk in the allowance column.

k. Illustration.

- (1) Figure Number indicates the figure number of the illustration in which the item is shown.
- (2) Item or Symbol Number indicates the callout number used to reference the item in the illustration.

4. Special Information

The following publications pertain to Heater, space and its components.

TM 5-4520	Operator, Organizational, Direct and
208-15	General Support and Depot Maintenance
	Manual

5. Instructions for Locating Repair Parts

a. When Federal Stock Number or manufacturer's part number is unknown.

- (1) *First.* Using the index of contents, determine the functional group or subgroup, i.e., engine, engine assembly, transmission, transmission assembly, within which the repair part belongs. Locate the appropriate page in the manual and identify the part.
- (2) *Second.* Locate the repair part and the illustration figure and item number as shown in the last two columns of the repair parts listing.
- (3) *Third.* Identify the repair part on the illustration.

b. When Federal Stock Number or manufacturer's part number is known.

- (1) *First.* Use the index to locate the Federal stock number or manufacturer's part number. This index is arranged in alphameric sequence

cross-reference to page number and manufacturer's code.

- (2) *Second.* Refer to the appropriate page in the parts listing. Locate the repair part and the illustration figure and item number as shown in the last two columns of the parts listing.

6. Abbreviations

in.-----inch (es)
 lg-----long (length)
 l. h.-----left hand
 mtg-----mounting (s)
 No.-----number
 r. h.-----right hand
 thd-----thread (ed)

7. Index of Federal Supply Codes

Code	Manufacturers
01930	Ame.rock Corporation
02582	Savoy Products Company
07707	United Shoe Machinery Corporation Fastener Division
11583	Champion Spa* Plug Company
11764	--Msaon Company, Inc.
16236	--Crouse-Hinds Company
21387	--Fairbanks Morse and company
43334	--New Departure Division of General Motors Corporation
69780	--Thomas and Betts Company
61864	---United-Carr Fastener Corporation
62869	--Veeder-Roots, Inc.
71896	--Delvan Manufacturing Company
72962	--Elastic Stop Nut Corporation of America
76005	--Lord Manufacturing Company
77122	--Palnut Company
78257	--Snap-Tite, Inc.
79470	--Weatherhead Company
80205	--National Aircraft and Standard Committee Aeronautical Industries Association of America
81336	--Corporation of Engineers
81948	--Federal Specifications
83269	---Dual Drive Inc.
83642	-- Standardization Division Department of Defense
83930	--- Adel Division General Metals Corporation
88044	---Aeronautical Standard Group Department of the Navy and Air Force
90598	---American Air Filter
91816	---James-Pond-Clark Company
92940	--Doerr Electric Corporation
96523	--Klemm Automotive Products Company
96906	--Military Standards
99166	--Sunstrand Hydraulic Division of Sundstrand Corporation

8. Reporting of Equipment Publication
Improvements

DA Form 2023 (Recommended Changes to
DA Publications) will be used for reporting
discrepancies and recommendations for im-

proving this equipment publication. 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-MP, 4300 Good-
fellow Blvd., St. Louis Mo. 63120.

SECTION II

PRESCRIBED LOAD ALLOWANCE

(1)	(2)	(3)	(4)			
FEDERAL STOCK NUMBER	DESCRIPTION	QTY INC IN UNIT PACK	15-DAY (A) 1-5	ORG (B) 6-20	MAINT. (C) 21-50	ALW (D) 51-100
	USABLE ON CODE					
	0100--ENGINE ASSEMBLY					
5305-925-0628	SCREW, THUMB: ENGINE MTG (90598) TC 4021		*	*	*	2
	0401--PIPES					
5340-940-7917	SPRING, HELICAL: EXHAUST EXTENSION (90598) TM 3955		*	*	*	2
	1313--TIRES, TUBES					
2640-050-1229	VALVE CORE (81336) 910-08-2898-500		*	*	*	2
2640-052-0944	CAP, TIRE VALVE		*	*	*	2
	2202--ACCESSORY ITEMS					
4720-930-5978	HOSE ASSEMBLY, AIR DUCT (90598) TD 3035-1		*	*	*	2
	6004--FUEL SYSTEM					
2910-712-9326	STRAINER, ELEMENT (96523) S108		*	*	*	2
4520-836-8165	ELEMENT, FILTER (96523) CE 102		*	*	*	2
4520-838-5419	GASKET, FILTER (96523) FG 104		*	2	2	2
4520-838-5421	GASKET, FILTER (96523) HG 103		*	2	2	2
4520-946-0180	PUMP, FUEL (99166) J6BC312-2		*	*	*	2
4720-930-5973	HOSE ASSEMBLY, AIR DUCT (90598) TD 3035-1		*	*	*	2
	6005--BURNER ASSEMBLY					
2920-142-0888	CONTACT SET, DISTRIBUTOR (21387) A24374X		*	*	*	2
4520-300-9598	NOZZLE, VARIABLE (90598) TR774		*	*	2	2
5330-202-3974	PACKING, PREFORMED (71895) 234		*	*	2	2
	6008--BLOWER ASSEMBLY					
3120-915-5445	BUSHING, SLEEVE (90598) TM3927		*	2	2	3

LINE NO	(1) SOURCE, MAINT AND RECOV CODE	(B) MAINT	(C) RECOVER	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	MANUFACTURER'S CODE PART NUMBER	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT	INC PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG MAINT ALW	(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(8) ILLUS- TRATION (A) FIG NO
0001					SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE											
0001A					GROUP 01 - ENGINE											
0001B					0100 - ENGINE ASSEMBLY											
0002		0		5306-660-2016	BOLT, MACHINE: ENGINE MTG	96906 MS35292-31	EA			4	*	*	*	*	*	1
0003 P		0		2920-947-2753	BRACKET, ENGINE	90598 TMF3219	EA			1	*	*	*	*	*	1
0004 P		0		2920-947-2731	BRACKET, ENGINE	90598 TM3937	EA			1	*	*	*	*	*	1
0005 P		0		2920-933-3610	BRACKET, ENGINE	90598 TMF3220	EA			1	*	*	*	*	*	1
0006 P		0		3120-916-1869	BUSHING, TAPERED: ENGINE COUPLING	90598 TM3917-4	EA			1	*	*	*	*	*	1
0007 P		0		4520-924-2397	COUPLING, DRIVE	90598 TM3917-6	EA			1	*	*	*	*	*	1
0009 X2		0			KEY, WOODRUFF: BUSHING TO ENGINE	90598 TM3984	EA			1	*	*	*	*	*	1
0010 P		0		5340-941-3016	MOUNT, RESILIENT: ENGINE MTG	76005 HT0-991-3	EA			1	*	*	*	*	*	16
0011 P		0		5340-707-0238	MOUNT, RESILIENT: ENGINE MTG	76005 HT1-15	EA			2	*	*	*	*	*	5
0012		0		5310-274-9403	NUT, SELF-LOCKING, HEXAGON: MOUNT MTG	72962 22M04	EA			10	*	*	*	*	*	5
0013		0		5305-071-2235	SCREW, CAP, HEXAGON HEAD: ENGINE MTG	96906 MS35291-16	EA			10	*	*	*	*	*	1
0013A		0		5306-255-8494	SCREW, CAP, HEXAGON, HEAD: MOTOR SUPPORT MOUNTING	96906 MS35291-29	EA			10	*	*	*	*	*	5
0014		0		5305-545-5961	SCREW, MACHINE: MOUNT MTG	88044 AN505-10R26	EA			8	*	*	*	*	*	5
0015		0		5305-059-4573	SCREW, MACHINE: MOUNT MTG	96906 MS24583-47	EA			2	*	*	*	*	*	16
0016 P		0		5305-925-0628	SCREW, THUMB: ENGINE MTG	90598 TC4021	EA				*	*	*	*	*	5
0016A X2		0			SUPPORT, PRIME MOTOR A	90598 TMF3218	EA			1	*	*	*	*	*	5
0016B X2		0			SUPPORT, PRIME MOTOR B	90598 TMF3230-100	EA			1	*	*	*	*	*	5
0017		0		5310-087-7493	WASHER, FLAT: BRACKET MTG	96906 MS21718313	EA			8	*	*	*	*	*	1
0018		0		5310-167-0721	WASHER, LOCK: BRACKET MTG	96906 MS35333-41	EA			22	*	*	*	*	*	1
0019		0		5310-550-1130	WASHER, LOCK: ENGINE MTG	96906 MS35333-40	EA			10	*	*	*	*	*	5
0019A		0		5310-167-0721	WASHER, LOCK: MOTOR SUPPORT MTG	96906 MS35333-41	EA			10	*	*	*	*	*	5
0020					GROUP 03 - FUEL SYSTEM											
0020A					0306 - LINES, FITTINGS											
0021 P		0			COUPLING HALF: QUICK DISCONNECT	78357 PHN4-2M	EA			1	*	*	*	*	*	1
0023 X2		0		4730-277-8265	ELBOW, PIPE TO TUBE: NIPPLE TO FUEL FILTER	79470 34002	EA			1						11
0024 X2		0		4730-287-9353	ELBOW, PIPE TO TUBE: NIPPLE TO QUICK DISCONNECT	88044 AN916-1	EA			1						1
0024A X2		0			NIPPLE, PIPE: ELBOW TO ELBOW, FUEL FILTER											
0025		0		4730-595-3875	(81348) WVN351TYPEITAB2E NIPPLE, PIPE: FILTER TO ENGINE	88044 AN911-1C	EA EA			1 1	*	*	*	*	*	1 1