

ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LIST

FOR

GUN, SPRAY, PAINT (DE VILBISS MFG CO.)  
MODELS PMBC510-58FX, PMBC5010-45E, AND PMBC510-58E  
(PRESSURE FEED (7 CU FT 4940-261-8413))  
(SIPHON FEED 4½ CU FT 4940-261-8414))  
(SIPHON FEED (7 CU FT 4940-261-841 5))

**This manual is current to 13 November 1969.**

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ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

1. Scope

This manual is a list of repair parts and special tools required for the performance of Organizational Maintenance of the Paint Spray Gun.

2. General

This repair parts and special tools list is divided into the following sections.

a. *Prescribed Load Allowance List.* Not applicable.

b. *Repair Parts - Section II.* A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.

c. *Tools and Support Equipment - Section III.* A list of tools and support equipment authorized for the performance of maintenance at the organizational level.

d. *Federal Stock Number and Part Number Index - Section IV.* A list of Federal stock numbers in ascending numerical sequence followed by a list of part numbers in alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

3. Explanation of Columns

a. *Source, Maintenance, and Recoverability Codes, Column 1 are as follows:*

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

<i>Code</i>	<i>Explanation</i>
P	Applied to repair parts which are stocked in or supplied from GSA DSA, or Army supply system and authorized for use at indicated maintenance categories.
P2	Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
M	Applied to 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 are made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
X	Applied to parts and assemblies which are not procured or stocked; the mortality of which normally is below that of the applicable end item; and the failure of which should result in retirement of the end item from the supply system.

\*This manual supersedes TM 9-4940-221-15P, 9 April 1962.

Code	Explanation
X1	Applied to repair parts which are not procured or restocked, the requirement for which will be supplied by use of next higher assembly or component.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain through cannibalization, if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
G	Applied to major assemblies that are procured with PEMA funds for initial issue only to be used as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DSU and GSU level or returned to depot supply level.

(2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code	Explanation
O	Organizational Maintenance

(3) Recoverability code, indicates whether un-serviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Code	Explanation
R	Applied to repair parts (assemblies and components) which are considered economically repairable at direct and general support maintenance levels. When the maintenance capability to repair these items does not exist, they are normally disposed of at the GS level. When supply considers dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced 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 normal 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, or high dollar value reusable casings or castings.

NOTE: When no code is indicated in the recoverability column. the part will be considered expendable.

b. Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description, Column 3. This column indicates the Federal item name and any additional description of the item required. The abbreviation "w e" when used as a part of the nomenclature, indicates that the Federal stock number includes all equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name.

d. Unit of Issue, Column 4. A two character alphabetic abbreviation indicating the amount or

quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the paint spray gun.

f. 15-Day Organizational Maintenance Allowance, Column 6.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the total quantity authorized for the number of equipments supported.

(2) The quantitative allowance for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed load authorized by the quantity of repair parts reflected in the density column applicable to the number of items supported to obtain the total quantity of repair parts authorized.

(3) organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, multiplying the decimal factor by the parts quantity authorized in the 51-100 equipments is 40; for 150 equipments, multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to: Commanding General, U.S. Army Weapons Command, ATTN: AMSWE-SMM-TE, Rock Island, Illinois 61201, for exception or revision to the allowance list. Revisions to the range of items authorized will be made to the Commanding General, U.S. Army Weapons Command, based upon engineering experience, demand data, or TAERS information.

g. Illustration, Column 7. This column is divided as follows:

(1) Figure Number, Column 7a. Indicates the figure number of the illustration in which the item is shown.

(2) Item Number, Column 7b. Indicates the call out number used to reference the item in the illustration.

#### 4. Special Information

Identification of usable on codes included in column 3 of section II of this publication are as follows :

Code	Used on
A	PMBC510-58FX
B	PMBC5010-45E
C	PMBC510-58E

5. How to Locate Repair Parts

a. When Federal stock number or reference number is unknown:

(1) *First.* Using the table of contents, determine the assembly group, within which the repair part belongs. This is necessary since illustrations are prepared for the assembly group.

(2) *Second.* Find the illustration covering the assembly to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the Repair Part Listing, find the assembly group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

b. When Federal stock number or reference number is known:

(1) *First.* Using the Index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* Using the Repair Part Listing, find the assembly group of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers and Reference Numbers.

6. Abbreviations

<i>Abbreviations</i>	<i>Explanation</i>
ID.....	inside diameter
NPT.....	American Standard Taper Pipe Thread
OD .....	outside diameter
THK .....	thick(ness)
W/.....	with

7. Federal Supply Code for Manufacturers

<i>Code</i>	<i>Manufacturer</i>
17431	De Vilbiss Company

8. Suggestions and Recommendations.

The reporting 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 DA Publications) and forwarded direct to: Commanding General, Headquarters, U.S. Army Weapons Command, ATTN: AMSWE-SMM-P, Rock Island, Ill. 61201.

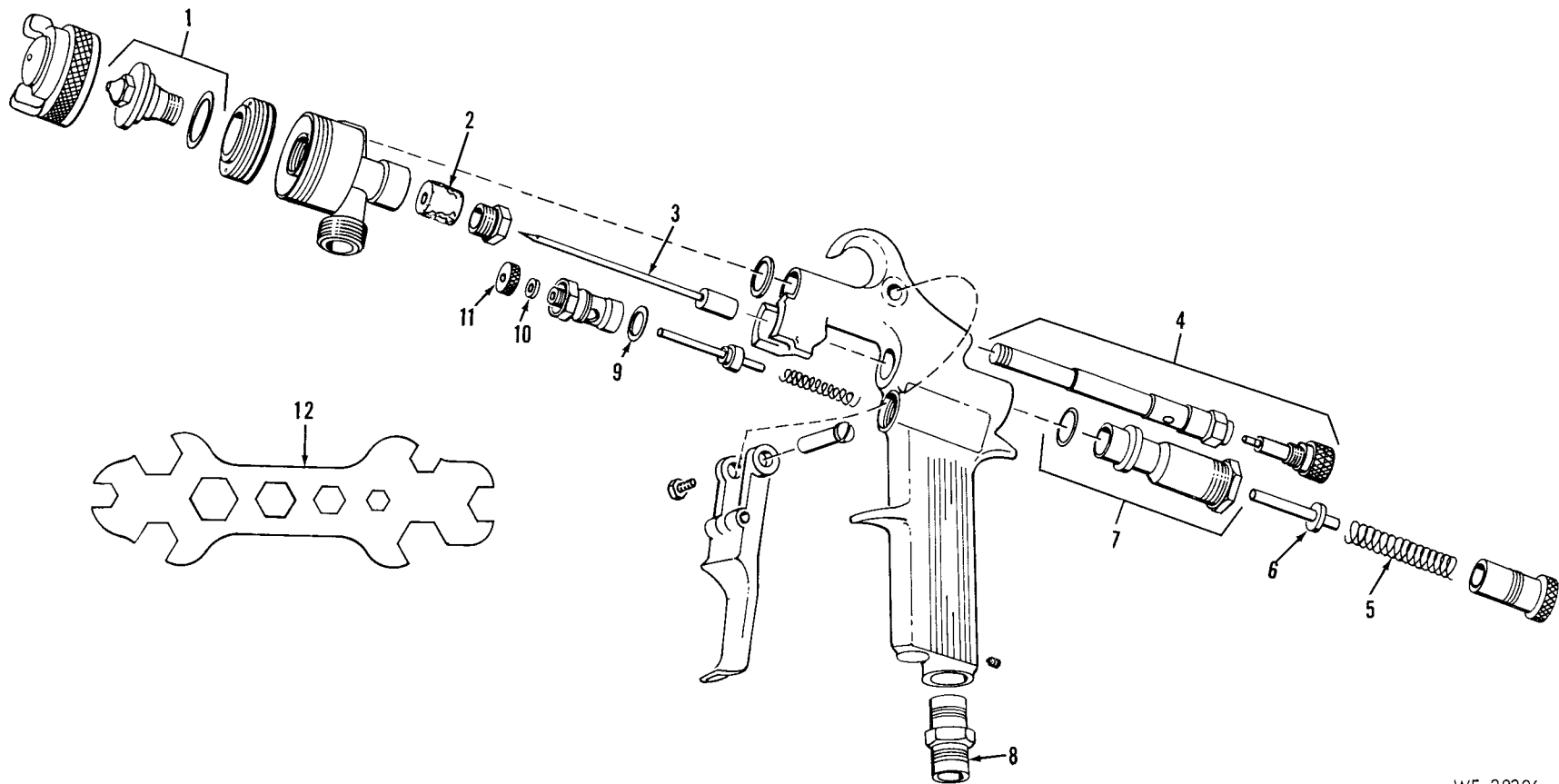
## SECTION II REPAIR PARTS

(1)			(2)	(3)		(4)	(5)	(6)				(7)	
SOURCE MAINT. AND RECOV. CODE			FEDERAL STOCK NO.	DESCRIPTION	USABLE ON CODE	UNIT OF ISSUE	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINT. ALLOWANCE				ILLUSTRATION	
(A)	(B)	(C)		REFERENCE NUMBER AND MFR CODE			IN UNIT	(A)	(B)	(C)	(D)	(A)	(B)
SOURCE	MAINT.	RECOV.						1-5	6-20	21-50	51-100	FIGURE NO.	ITEM NO.
P	O		4940-474-8820	TIP,FLUID W/GASKET AV-601-E(17431)	B C	EA	1	*	1	2	4	1	1
P	O		4940-474-8821	TIP,FLUID W/GASKET AV-601-FX(17431)	A	EA	1	*	1	2	4	1	1
P	O		4940-422-8771	PACKING FLUID NEEDLE A-23(17431)	A B C	EA	1	1	2	4	6	1	2
P	O		4940-474-7845	NEEDLE,FLUID MBC-444-FX(17431)	A	EA	1	*	1	2	4	1	3
P	O		4940-422-8776	NEEDLE,SPRAY GUN FLUID MBC-444-E(17431)	B C	EA	1	*	1	2	4	1	3
P	O		4940-474-8850	VALVE,SPREADER ADJUSTMENT ASSEMBLY MBC-416-1(17431)	A B C	EA	1	*	*	1	2	1	4
P	O		4940-474-9016	SPRING,HELICAL COMPESSION MBC-29(17431)	A B C	EA	1	1	2	4	6	1	5
P	O		4940-422-8812	PLUNGER,SPRAY GUN MBC-33(17431)	A B C	EA	1	*	1	2	4	1	6
P	O		4940-449-9301	CYLINDER AND GASKET MBC-415(17431)	A B C	EA	1	*	*	1	2	1	7
P	O		4730-346-1768	ADAPTER,STRAIGHT 1/4 IN. NPT P-MB-51(17431)	A B C	EA	1	1	2	4	6	1	8
P	O		5330-641-2215	GASKET,ASBESTOS-COPPER, 0.436 IN. ID, 33/64 IN. OD, 1/16 IN. THK MB-72(17431).	A B C	EA	1	1	2	4	6	1	9
P	O		5330-801-5855	PACKING,AIR VALVE MB-26(17431)	A B C	EA	1	1	2	4	6	1	10
P	O		5310-474-7878	NUT,PACKING AIR VALVE ASSEMBLY MB-138(17341)	A B C	EA	1	*	1	2	4	1	11
				SECTION III									
				TOOLS AND SUPPORT EQUIPMENT									
P	O		5120-422-8932	WRENCH,BOX AND OPEN END COMBINATION WR-101(17431)	A B C	EA	1	1	2	4	6	1	12

SECTION IV. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER  
 CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
4730-436-1768	1	8	4940-474-8821	1	1
4940-422-8771	1	2	4940-474-8850	1	4
4940-422-8776	1	3	4940-474-9016	1	5
4940-422-8812	1	6	5120-422-8932	1	12
4940-449-9301	1	7	5310-474-7878	1	11
4940-474-7845	1	3	5330-641-2215	1	9
4940-474-8820	1	1	5330-801-5855	1	10

REFERENCE NO.	MFR CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFR CODE	FIG NO.	ITEM NO.
A-23	17431	1	2	MBC-33	17431	1	6
AV-601-E	17431	1	1	MBC-415	17431	1	7
AV-601-EX	17431	1	1	MBC-416-1	17431	1	4
MB-138	17431	1	11	MBC-444-E	17431	1	3
MB-26	17431	1	10	MBC-444-FX	17431	1	3
MB-72	17431	1	9	P-MB-51	17431	1	8
MBC-29	17431	1	5	WR-101	17431	1	12



WE 38386

Figure 1. Paint spray gun.

By Order of the Secretary of the Army:

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USAATC (2)	44 548
USAAVNTBD (2)	57 100
USATTC (2)	

NG: State AG (3); Units same as active Army except allowance is one (1) each.

USAR: None.

For explanation of abbreviations used, see AR 310 50.

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# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

## Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

## Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

## Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

## Temperature (Exact)

°F Fahrenheit temperature      5/9 (after subtracting 32)      Celsius temperature      °C

**PIN: 026938-000**