DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR GUN, SPRAY, PAINT (BINKS MFG CO. MODELS 17, 18, and 19) (PRESSURE FEED (7 CU FT 4940-261-8413)) (SIPHON FEED (4-1 /2 CU FT 4940-261-8414)) (SIPHON FEED (7 CU FT 4940-261-8415))

Headquarters, Department of the Army
6 November 1969

This manual is current to 2 October 1969

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 Loud 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. Special Tools Test and Support Equipment. Not applicable.

d. Federal Stock Number and Part Number Index -Section III. 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:

Code	*Explanation*
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.
X l	Applied to repair parts which are not procured or stocked, 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

*This manual supersedes TM 9-4940-205-20P, 28 December 1961.

Code	Explanation
	will attempt to obtain through cannibalization, if not obtain 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. 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 unserviceable 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 considerations 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 exch ange 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, or high dollar value reusable casings or castings.

NOTICE: 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. Decription, 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 the Federal stock number includes all equipment, accessories, and repair parts issued with the item. A part number or other reference number is follow-cd 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 allowances 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, and multiplying the decimal factor by the parts quantity authorized in the 51-100 equipments to 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.

h. 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

Identifications of useable on codes included in column 3 of section II of this publication are as follows:

Code	Used on
A	Model 17
B	Model 18
C	Model 19

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 Parts 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

Abbreviation	*Explanation*
br	brass
cd-or-zn-chromate	cadmium or zinc chromate
cd-pltd	cadmium plated
hd	head
NEF	American National Extra Fine Thread
NF	American National Fine Thread
NPSH	American Standard Straight Pipe Thread for Close Couplings and Nipples
o/a	overall
pltd	plated
rd	round
rh	right hand
S	steel
spg	spring
z-chromate-fin.	zinc chromate finish

7. Federal Supply Codes for Manufacturers

Code	*Manufacturer*
07334	Binks Mfg Co.
96906	Military Standard

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) SOURCE MAINT. AND RECOV. CODE (A) SOURCE	(B) MAINT.	(C) RECOV.	(2) FEDERAL STOCK NO.	(3) DESCRIPTION REFERENCE NUMBER AND MFR. CODE	USEABLE ON CODE	(4) UNIT OF ISSUE	(5) QTY. INC. IN UNIT	(6) 15 DAY ORGANIZATIONAL MAINT. ALLOWANCE (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIGURE NO.	(B) ITEM NO.
P	O	-R	4940-300-1326	NOZZLE,AIR SIZE NO. 66S T-903-66S(07334)	B	EA	1	*	1	2	4	1	1
P	O	-R	4940-300-1327	NOZZLE,AIR SIZE NO. 66SA T-903-66SA (07334)	C	EA	1	*	1	2	4	1	1
P	O	-R	4940-357-2027	NOZZLE,AIR SIZE NO. 65P T-903-65P (07334)	A C	EA	1	*	1	2	4	1	1
P	O		4940-422-8784	NOZZLE,MATERIAL CONTROL SIZE NO. 66SS T-901-66SS (07334)	A B C	EA	1	*	1	2	4	1	2
P	O		4940-422-8685	GASKET MATERIAL NOZZLE T-918 (07334)	A B C	EA	1	6	12	24	48	1	3
P	O		4940-357-0109	CONTROL SIDE PORT ASSEMBLY T-1064 (07334)	B	EA	1	*	1	2	4	1	4
P	O		4940-422-8662	CONTROL SIDE PORT ASSEMBLY T-1024 (07334)		EA	1	*	1	2	4	1	4
P	O		5330-298-5309	GASKET ASBESTOS-COPPER,0.507 IN.ID,0.622 IN.OD.0.055 IN.THK T-123	B	EA	1	2	4	8	16	1	5
P	O		4730-142-3073	ADAPTER,STRAIGHT,PIPE TO TUBE BR,CHROME-PLTD-FIN.,1ST END THD MALE,U/W 3/8 IN.OD TUBE,9/16-24 THD SIZE,NEF,CLASS 3 FIT. RH.2ND END THD MALE,1/4-18 THD SIZE,NPSH,RH,1-3/8 IN.LG 0/A, F WORKING PRESSURE NOT RATED T-768-1 (07334)	A B C	EA	1	*	1	2	4	1	6

(1) SOURCE MAINT. AND RECOV. (A) SOURCE	(B) MAINT.	(C) RECOV.	(2) FEDERAL STOCK NO.	(3) DESCRIPTION REFERENCE NUMBER AND MFR. CODE	USEABLE ON CODE	(4) UNIT OF ISSUE	(5) QTY. INC. IN UNIT	(6) 15 DAY ORGANIZATIONAL MAINT. ALLOWANCE (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(7) ILLUSTRATION (A) FIGURE NO.	(B) ITEM NO.
P	O		5306-424-5706	BOLT,SHOULDER 3/16 IN.-40 THD SIZE,0.312 IN.THD LG, 0.078 IN.H,0.375 IN.HD,W 0.819 IN.LG T-759 (07334)	B	EA	1	*	1	2	4	1	7
P	O		5307-422-8908	STUD SPRAY GUN TRIGGER T-1020 (07334)	A C	EA	1	*	1	2	4	1	7
P	O		4940-430-3431	PACKING,MATERIAL CONTROL T-764 (07334)	B	EA	1	1	2	4	16	1	8
P	O		4940-430-3418	CUP,WIPER T-722 (07334)	B	EA	2	2	4	8	16	1	9
P	O		5305-990-6444	SCREW,MACHINE NO.10-32NF THD,3/8 IN.LG,W/CHROMATE MS35226-61 (96906)	A C	EA	1	*	1	2	4	1	10
P	O		5307-424-5707	STUD SPRAY GUN TRIGGER T-760 (07334)	B	EA	1	*	1	2	4	1	10
P	O		5330-430-3426	GASKET ASBESTOS-COPPER,0.436 IN.ID,0.515 IN.OD 0.055 IN.THK T-149 (07334)	B	EA	1	1	2	4	8	1	11
P	O		4940-248-4754	EPRING,HELICAL COMPRESSION MUSIC WIRE,CD-PLTD-FIN,RD CROSS SECTIONAL SHAPE,13 TOTAL NO. COILS,0.025 IN.SIZE OF MATERIAL,1-3/8 IN. FREE O/A LG OF SPRING,0.250 IN. FREE OD OF SPRING,0.200 IN.ID OF SPG, 2LB 4 OZ LOAD SUPPORTED AT 5/8 IN. COMPRESSED LG T-750 (07334)	A B C	EA	1	*	1	2	4	1	12
P	O		4940-422-8902	STEM,AIR VALVE T-1025 (07334)	A C	EA	1	*	1	2	4	1	13
P	O		4940-430-3425	STEM,AIR VALVE T-744 (07344)	B	EA	1	*	1	2	4	1	13
P	O		5330-256-8030	WASHER,NONMETALLIC THERMO-LEA,7/32 IN.OD,1/8 IN.ID,3/32 IN THK L-158 (07334)	A C	EA	1	2	4	8	16	1	14

(1) SOURCE MAINT. AND RECOV. CODE			(2)	(3)		(4)	(5)	(6) 15 DAY ORGANIZATIONAL MAINT. ALLOWANCE				(7) ILLUSTRATION	
(A) SOURCE	(B) MAINT.	(C) RECOV.	FEDERAL STOCK NO.	DESCRIPTION REFERENCE NUMBER AND MFR. CODE	USEABLE ON CODE	UNIT OF ISSUE	QTY. INC. IN UNIT	(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(A) FIGURE NO.	(B) ITEM NO.
P	O		5330-238-7943	WASHER,NONMETALLIC LEA,21/64 IN.OD,0.125 IN.ID T-747 (07334)	A B C	EA	2	6	12	24	36	1	15
P	O		4730-422-8786	NUT,PACKING AIR VALVE L-135 (07334)	A C	EA	1	*	1	2	4	1	16
P	O		4730-424-5704	NUT,PACKING AIR VALVE T-748 (07334)	B	EA	1	*	1	2	4	1	16

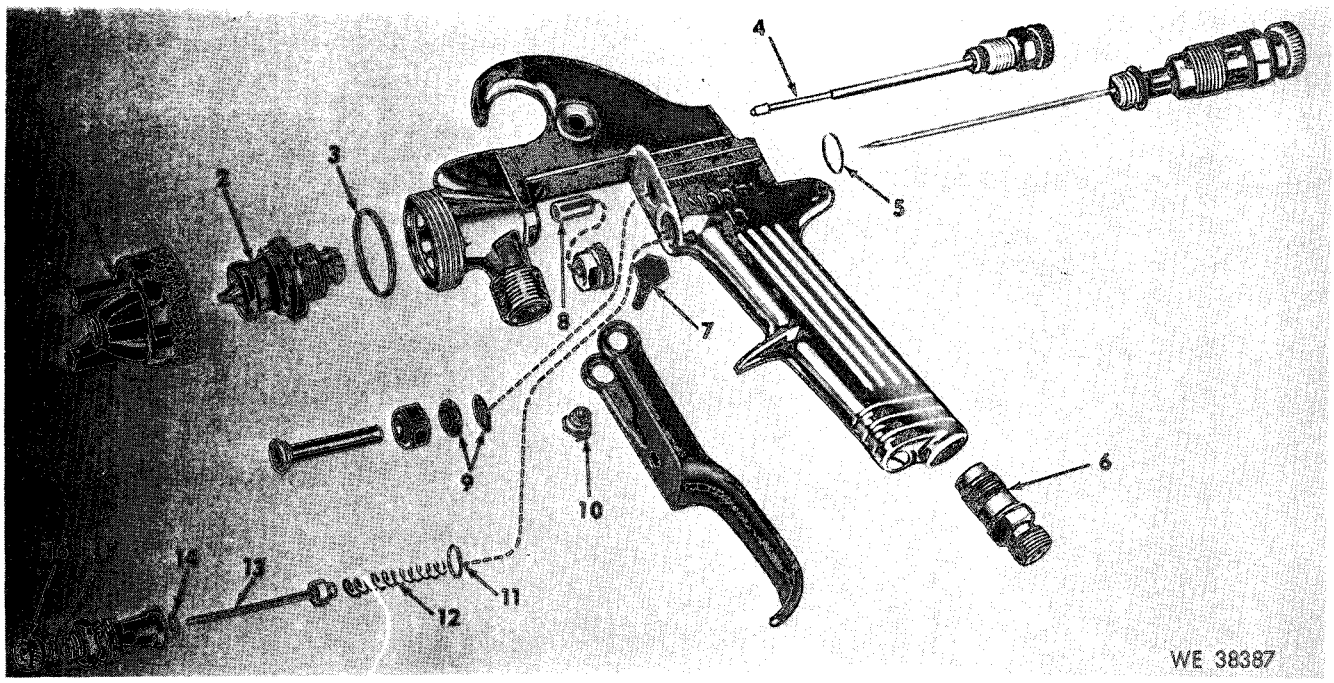

Figure 1-1. Paint spray gun.

SECTION III. 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.
4730-142-3073	1	6	4940-430-3418	1	9
4730-422-8786	1	16	4940-430-3425	1	13
4730-424-5704	1	16	4940-430-3431	1	8
4940-248-4754	1	12	5305-990-6444	1	10
4940-300-1326	1	1	5306-424-5706	1	7
4940-300-1327	1	1	5307-422-8908	1	7
4940-357-0109	1	4	5307-424-5707	1	10
4940-357-2027	1	1	5330-238-7943	1	15
4940-422-8662	1	4	5330-256-8030	1	14
4940-422-8685	1	3	5330-298-5309	1	5
4940-422-8784	1	2	5330-430-3426	1	11
4940-422-8902	1	13			

REFERENCE NO.	MFR CODE	FIG NO.	ITEM NO.	REFERENCE NO.	MFR CODE	FIG NO.	ITEM NO.
L-135	07334	1	16	T-749	07334	1	11
L-158	07334	1	14	T-750	07334	1	12
MS-35226	96906	1	10	T-759	07334	1	7
T-1020	07334	1	7	T-760	07334	1	10
T-1024	07334	1	4	T-764	07334	1	8
T-1025	07334	1	13	T-768-1	07334	1	6
T-1064	07334	1	4	T-901-66SS	07334	1	2
T-722	07334	1	9	T-903-65P	07334	1	1
T-723	07334	1	5	T-903-66S	07334	1	1
T-744	07334	1	13	T-903-66SA	07334	1	1
T-747	07334	1	15	T-918	07334	1	3
T-748	07334	1	16				

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Fort Knox FLDMS (10)
Sig FLDMS (2)
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Units org under fol TOE:
(2 CYS each unit)
8-510
8-563
8-564
10-337
29-11
29-21
29-27
29-35
29-37
29-51
29-105
29-107
44-235
44-237
44-535
44-537
44-545
44-547
44-548
57-100

NG: State AG (3); Units same as active army except allowance is one (1) COPY each unit.
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 decigram = .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

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