TECHNICAL MANUAL

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE
MANUAL INCLUDING REPAIR PARTS LIST
FOR

SPRAY GUN, PAINT MODEL NO. 76 (ECLIPSE SYSTEMS, INC,) (NSN 4940-00-261-8413)

TECHNICAL MANUAL

No. 9-4940-500-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 5 February 1980

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST FOR

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REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in the back of the manual and mail the form to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished direct to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this spray gun is issued.

Manufactured by: Eclipse Systems, Inc.

Cork Hill Rd P.O. Box E.

Franklin, NJ 07416

Procured under Contract No. DAAA09-78-C-4009

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

SPRAY GUN MODEL 76

DESCRIPTION

The Model 76 is a heavy-duty production spray gun which will spray a complete range of materials, such as lacquers to heavy synthetics, with ease, using either a siphon cup or pressure feed.

OPERATION

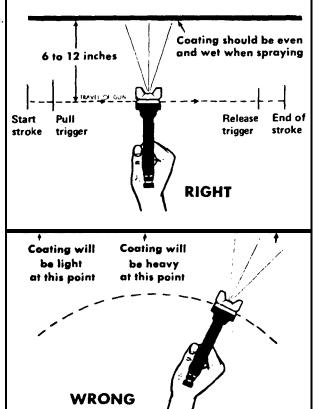
There are two basic controls on the Model 76 spray gun. The fan control (18) regulates air going to the holes of the air cap. The fluid needle adjustment screw (8) controls needle travel and fluid flow.

Mix and prepare material according to instructions for siphon feed.

- 1. Attach air hose to gun at air inlet (10)
- 2. Attach cup or pressure feed to gun at material inlet
- Adjust air pressure to desired amount at the Air Regulator
- 4. Adjust fluid volume by turning the fluid control screw (8) to the left or right.
- 5. Adjust to proper pattern by turning the fan control screw (23) to left or right.

The most efficient atomization air pressure is the lowest possible air pressure that will give the desired results.

A spraying distance of 6 to 12 inches from gun to work surface is recommended. The gun should be held perpendicular to the surface being coated. The stroke should be started before the trigger is pulled and the trigger released before the end of each stroke.



TROUBLESHOOTING AND REPAIR								
PATTERN	CAUSE	CORRECTION						
	Dried Material in side port hole, re stricts passage of air. Greater flow of air from clean side port hole forces fan pattern in direction of clogged side.	Dissolve material in side ports with thinner. Do not use metal Instrument.						
	Dried material build-up on the outside of the fluid nozzle tip restricts the passage of atomizing air at one point through the center opening of air nozzle. This pattern may be caused by loose air nozzle.	Remove air nozzle and clean off fluid tip, using rag, wet with thinner. Tighten air ozzle.						
	A split spray or one that is heavy on each end and weak in middle by (1) too high an atomization air pressure, or (2) by too wide a spray pattern with thin material.	Reducing air pressure will correct cause (1). To correct cause (2), open fluid control needle, at the same time turn fan control in. This will reduce width of spray but will correct split spray pattern.						
	Insufficient fluid in cup Cobstructed fluid passage or hose. Loose or defective cup Loose fluid tip or defective Dry or worn packing (5) or loose packing nut (6).	1. Fill Cup 2. Clean 3. Retighten or replace 4. Retighten or replace 5. Lubricate or replace. Tighten						

MAINTENANCE & CLEANING

Lubrication - Place a drop of light machine oil on:

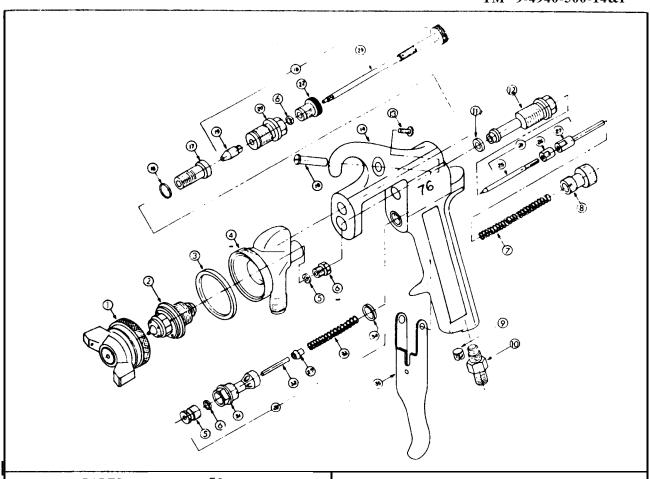
- a. fluid needle packing.
- b. air valve packing.
- c. fan control packing
- d. trigger pivot point.

Coat the fluid control spring with petrolatum.

Cleaning – Empty material from cup and replace with compatible thinner or solvent. Replace cup and spray in the usual manner to flush passage thoroughly and to clean tip of needle.

To clean air and fluid nozzles, soak them in solvent to dissolve any dried material and blow clean with air,

Never immerse gun in solvent beyond spray head.



	PARTS LIS	t, model 76 gun	Item No.	Part No.	Description	Qty.	
	5	50-6510	28	50-6511	Air Valve Assy.	1	
				29	205654	Air Valve	
Item No.	Part No.	Description	Qty.	31	20-5977	Air Valve Body	1
1	50-6509	Air Nozzle Assy.	1	32	20-5651	Air Valve Stem	1
2	43-15- 1-4	Fluid Nozzle	1	33	3-4358	Air Valve Spring	1
3	4-4437	Gasket	1	34	44440	Air Valve Gasket	1
4	20.5972	Gun Head	1	35	50-6508	Trigger	1
5	4-4301	Packing	3			50-6512	
6	20-5961	Packing Nut	2				
7	3-4359	Fluid Control Spring	1		PA	CKING KIT	
8	20-5660	Fluid Control Screw	1	3	4-4437	Gasket	1
9	5-07 -21-8	Plug	1	5	4-4301	Packing	3
10	20-5572	Air Connection	1	<u> </u>	4-4301	. doking	
11	4-4438	Fluid Control Gasket	1			50-6520	
12	20-5962	Fluid Control Housi	ng 1		CDAD	E PARTS KIT	
13	1-4348	Trigger Screw	1		SPAR	E PARIS KII	
14	20-5973	Handle	1	3	4-4437	Gasket	1
15	1-4342	Trigger Stud	1	5	4-4301	Packing	3
16	4-4420	Gasket	1	7	3-4359	Fluid Control Spring	1
17	20-5963	Screw, Gun Head M	tg. 1	11	4-4438	Fluid Control Gasket	1
18	50-6513	Air Control Assy.	1	13	1-4348	Trigger Screw	1
19	20-5964	Air Control Head	1	15	1-4342	Trigger Stud	1
20	20-5974	Body Air Control	1	16	4-4420	Gasket	1
22	20-5965	Air Control Screw	1	19	205964	Air Control Head	1
23	50-6506	Air Control Assy.	1	25	20-5966	Needle	1
24	50-6507	Needle Assy.	1	29	20-5654	Air Valve	1
25	205966	Needle	1	32	20-5651	Air Valve Stern	1
26	20-5967	Locknut	1	33	3-4358	Spring, Air Valve	1
27	20-5968	Locknut Extension	1	34	4-4440	Gasket. Air Valve	1

INSTRUCTIONS FOR REQUISITIONING PARTS

NOT IDENTIFIED BY NSN

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

- 1 Manufacturerts Federal Supply Code Number 19272
- 2 Manufacturer's Part Number exactly as listed herein. PN 50-6510
- 3 Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 Manufacturer's Model Number Model No. 76
- 5 Manufacturerfs Serial Number (End Item)
- 6 Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

- (a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 19272 followed by a colon and manufacturer's Part Number for the repair part.
- (b) Complete Remarks field as follows:

(nomenclature of repair part)

For: NSN: 4940-00-261-8413 Manufacturer: Eclipse Systems, Inc.

Model: No. 76

Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.

By Order of the Secretary of the Army:

E. C. MEYER General United States Army Chief of Staff

Official:

J. C. PENNINGTON
Major Genenal, United States Army
The Adjutant General

☆ U.S. GOVERNMENT PRINTING OFFICE : 1982 0 - 382-963



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PUBLICATION TITLE

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SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, SP/4

XXX-XXXX

SIGN HERE

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Rock Island, IL 61299

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