TM 9-4940-456-14&P

DEPARTMENT
OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT

AND GENERAL SUPPORT MAINTENANCE

MANUAL INCLUDING REPAIR PARTS LIST

FOR

SPRAY GUN, PAINT

(SHARPE MANUFACTURING CO)
(4940-00-261-8413)

HEADQUARTERS,
DEPARTMENT OF THE ARMY

APRIL 1978

TECHNICAL MANUAL

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Washington, DC, 21 April 1978

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REPORTING OF ERRORS

You can help improve this manual by calling attention to errors and by recommending improvements and by stating your reasons for the recommendations. Your letter or DA Term 2028 (Recommended Changes to Publications and Blank Forms) should be mailed directly to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you. For your convenience, preaddressed DA Form 2028-2's are included as final pages of this manual.

NOTE

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

Manufactured by: Sharpe Manufacturing Co.
1224 Wall Street
Los Angeles, Ca 90015

Procured under Contract No: DAAA09-76-C-6176

MODEL #71 SPRAY GUN
with #6 Air cap (Pressure)

CARE AND MAINTENANCE

It is not recommended that the entire spray gun be immersed in solvent for any extended period. This precaution will prevent packings from becoming dry and causing air leaks, as well as removing desirable lubrication.

It is not recommended that this spray gun be completely disassembled for cleaning. Especially if the procedure outlined below is followed.

CLEANING SPRAY GUN & EQUIPMENT (Pressure Feed)

Step I - Release air pressure from pressure tank.
Step II - Back pressure as follows:
Loosen air nozzle and hold a cloth over same.
Using normal spraying air pressure, pull trigger and air pressure will force material from gun passages and fluid line into pressure tank. Remove material from pressure tank and replace with compatible solvent.

Step III - Tighten air nozzle and operate system as if painting until clean solvent appears.

Step IV - Repeat back pressure procedure to clear solvent from gun passages and fluid lines.

Step V - Wipe down the spray gun with compatible solvent.

This method obviously cleans not only the spray gun but the entire system.

LUBRICATION REMINDER

Drop of light oil should be frequently placed on all moving parts.
Specifically:

On the shank of the fluid needle assembly 71-03-70N where it enters packing nut 71-21.
On trigger shaft 20-34 (both sides).
On exposed portion of air valve 71-41X.

TROUBLESHOOTING

Bad Patterns - Heavy at bottom or top.

Rotate air nozzle (71-02) 180 degrees. If the distortion follows the air nozzle, then the problem is in the air nozzle.

To correct - Soak nozzle and air blow clean. Do not probe air nozzle with anything harder than a wooden tooth pick. If this does not correct, replace with new air nozzle because chances are that you have an out of round jet which is causing the problem.

If upon rotation of 180 degrees the distortion does not follow the nozzle , then the problem is in the fluid tip (71-04-70).

To correct - Inspect tip - if it is cracked or dented, replace because it will alwavs produce the same distortion. However, if it is a case of dried paint on the inside or outside, a good cleaning with a brush and solvent will remove, and the fluid tip will no longer produce the distortion.

Bad Pattern - Split. fan (Hour glass effect)

Caused by excessive air pressure for the material to be sprayed.

To correct - Reduce pressure or narrow fan with 71-55X spray width adjuster.

Splitting - Basically caused by air getting in the fluid stream.

To correct - Fluid tip (71-04-70) must be tight. Fluid needle packing 71-11A must be tight. If adequate tightening hinders travel of fluid needle 71-03N, then replace packing 71-11A because it has been allowed to become too dry.

Be sure that the fittings on the fluid are tight to the spray gun as well as to the pressure vessel.