SEARS

OWNER'S MANUAL

MODEL NO. 919.155350

CRAFTSMAN®

SPRAY GUN

- INSTALLATION
- OPERATION
- MAINTENANCE
- PARTS LIST

IMPORTANT:
Read the Safety Guidelines and All Instructions Carefully Before Operating.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

MGP-155350 Rev. 6/20/96

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SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use symbols to the right. Please read the manual and pay attention to these sections.

⚠ DANGER

URGENT SAFETY INFORMATION - A HAZARD THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE

⚠CAUTION

Information for preventing damage to equipment.

⚠WARNING

IMPORTANT SAFETY INFORMATION - A HAZARD THAT *MIGHT* CAUSE SERIOUS INJURY OR LOSS OF LIFE.

NOTE

Information that you should pay special attention to.

IMPORTANT SAFETY INSTRUCTIONS

• SAVE THESE INSTRUCTIONS •

IMPROPER OPERATION OR MAINTENANCE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY AND PROPERTY DAMAGE. READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT.

WHAT TO LOOK FOR	WHAT COULD HAPPEN	HOW TO PREVENT IT
Flammable Spray Materials	When paints or materials are sprayed, they are broken into very small particles and mixed with air. This will cause certain paints and materials to become extremely flammable.	Never spray near open flames or pilot lights in stoves or heaters. Never smoke while spraying. Provide ample ventilation when spraying indoors.
Toxic Vapors	Some paints and coatings may be harmful if inhaled or allowed to come into contact with skin or eyes.	Use a mask or respirator if there is a chance of inhaling toxic sprayed materials. Masks and respirators have limits and will only provide protection against some kinds and limited amounts of toxic material. Read mask and respirator instructions carefully. Consult with a safety expert or industrial hygienist if you are not sure about the use of a certain mask or respirator.
Compressed Air	Compressed air may propel dirt, metal shavings, etc. and possibly cause an injury.	Never point any nozzle or sprayer toward a person or part of the body. Always wear safety goggles or glases when spraying.
Pressurized Parts	Certain parts are under pressure whenever the gun is connected to a pressurized air line. These parts may be propelled if the gun is disassembled.	Disconnect the gun from the air line, or completely depressurize the air line whenever the gun is to be disassembled.
Explosion Hazard - Incompatible Materials	The solvents 1,1,1-Trichloroethane and Methylene Chloride can chemically react with the aluminum used in most spray equipment, and this gun and cup, to produce an explosion hazard.	Read the label or data sheet for the material you intend to spray. 1. Do not use any type of spray coating material containing these solvents 2. Do not use these solvents for equipment cleaning or flushing. 3. If in doubt as to whether a material is compatible, contact your material supplier.

GENERAL INFORMATION

SPRAY GUN

This versatile Craftsman Spray Gun is shipped ready for use with any larger air compressors delivering at least 7.0 SCFM at 40 PSI. It is a non-bleeder gun, which is compatible with Sears and most other modern compressors. Non-bleeder guns require air from an air compressor having an air regulator and an automatic start/stop pressure switch or an automatic pressure unloader. The gun has a built-in air valve which shuts off the air flow through the gun when the trigger is released.

The cup provided with this gun is designed for suction feed only, which makes it ideal for applying light and medium bodied paints (stain, lacquer) to large size jobs such as complete auto refinishing. However, this gun can also be used with a remote pressure feed paint tank (see page 5) for spraying on larger painting applications.

Suction Cup Removal - * The Sipon Feed Cup supplied with this gun has a built in socket feature in the top of the yoke. This allows the lid and tube assembly to be removed from the gun without using a 3/4" wrench.

To use this feature, remove the paint cup and lift the yoke over the nut. The yoke will fit over the nut similiar to a 12 point socket. Gripping the outer portions of the yoke and turning allows the nut to be tightened and loosened.

NOTE

This gun is designed for use with most finishing materials. It is not designed for use with corrosive or highly abrasive materials. Using these materials can lead to poor performance and/or failure of this product.

AIR CAPS

External Mix - The air and material are mixed outside the air cap. This type of cap is best suited for quick drying paints, such as latex, lacquers, etc.

Internal Mix - The air and material are mixed inside the air cap. This type of cap is normally used for thick paint where fast application is desired and where quality of finish is less important. Internal mix must be used with pressure feed set-up.

PREPARATION FOR SPRAYING

Your Craftsman spray gun is shipped completely assembled, and **set-up for siphon feed spraying.** Installation is accomplished by connecting an air line to the air inlet adapter (44).

This spray gun should be flushed with solvent prior to spraying with paint.

The fluid needle packing (8) in this gun may be loose when received. Tighten the packing retainer (9) until it grabs and holds the fluid needle (21), then back off the packing retainer (approx. 1/4 turn) until the fluid needle is free to travel into the fluid nozzle (4).

Be sure the surface to be sprayed is dry and free of all dirt, grease, oil and loose paint. Mix and prepare the paint according to the manufacturer's instructions. The use of a Sears viscosimeter can be very helpful. Strain the material to be sprayed thorugh a 60 to 90 mesh screen or equivalent.

Set air pressure at 40 psi as a starting point and follow the safety precautions in the "Safety Guidelines" before you begin.

GENERAL INFORMATION

CONVERTING TO REMOTE PRESSURE FEED

1. Remove suction cup and lid assembly by loosening and removing the swivel nut (36).

2. The spray gun is now ready to be connected to any pressure feed tank with a standard 3/8" straight pipe female connection.

OPERATION

1. Shut off fluid flow through gun by turning fluid needle adjusting screw (25) clockwise as far as it will go. Do not force.

2. Keep the air pressure as low as possible.

3. Open (turn counterclockwise) air valve assembly (10) until the first thread is flush with the back of gun. This is the full open position.

4. Hold the trigger (13) back and gradually open the fluid needle adjusting screw (25) until a desired pattern is obtained.

5. Trigger the gun quickly, one second on-off. Spray a small test pattern.

6. If the gun sprays too fast (runs or sags), lower the air and fluid pressure. If too slow, increase pressure. Adjust to balance pressure.

When using internal mix air cap, begin with the same air and fluid pressure.

⚠CAUTION⚠

The SG5-0010 air valve (10) is under pressure whenever the gun is triggered. If the valve is turned out too far, it may leave the gun forcefully when the gun is triggered. The "O" ring may also be damaged. Do not turn the valve out past the first thread--there will be no effect on the spray pattern after that position.

MAINTENANCE

Thoroughly clean the spray gun after each use.

1. Turn off air supply, and remove cup from lid.

2. Empty the material from cup and rinse with a clean solvent (thinner).

3. Fill cup with solvent and attach to the lid.

NOTE

Always clean with reduced air pressure. An air pressure no greater than 15 to 20 PSI will allow quick and thorough cleaning of the cup and gun.

4. Turn on the air supply and spray solvent through the spray gun. While spraying, shake the gun up and down to remove all excess material from the lid. Repeat Steps 1-4 above with a clean solvent until all traces of material are removed.

5. Turn off air supply to gun.

6. To clean the vent hole, shut off air to gun, hold the trigger back and turn gun assembly upside down over solvent container. Allow solvent to drip out vent hole in lid until clear solvent is seen.

7. Wipe the outside of the spray gun and cup with a solvent soaked cloth. DO NOT IMMERSE THE GUN IN SOLVENT -- THIS WILL WASH OUT THE LUBRICANTS AND DRY OUT PACKINGS.

8. To clean the air cap and fluid tip, remove them (see Air Caps), soak in suitable solvent and wipe clean with a clean cloth. If the holes are plugged, use a wooden toothpick to remove any material particles. NEVER use a needle or any other metal object as this may damage the holes and result in imperfect spray patterns. When reassembling the fluid tip, take care not to overtighten (160-200 in.lbs. torque is recommended) or cross thread the fluid tip into the gun body.

NOTE

If water is used as a solvent to clean the gun, spray paint thinner or mineral spirits through the gun after cleaning to remove any excess moisture and protect parts.

After cleaning the spray gun, apply a few drops of light household oil to the fluid needle (21) next to the packing retainer (9), on the threads of the air valve assembly (10) and that part of the valve stem (20) which protrudes from the gun body. All springs should be given a coating of light grease periodically.

GENERAL INFORMATION

HINTS FOR GOOD SPRAYING RESULTS

- Hold the gun perpendicular to the surface, 6" to 8" distance.
- Follow contour.
- Overlap each stroke 50%.
- Ends are feathered by triggering. That is, begin stroke before pulling trigger and releasing just before ending the stroke.
- Spray edges and corners first. This will reduce overspray while providing good coverage on corners.
- Don't arc strokes, move the gun parallel to work.

Your pattern should normally be shaped like this.

If not, see Troubleshooting Guide.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	CORRECTION
Heavy top or bottom pattern.  Heavy right or left side pattern. 	Material build-up on air cap or fluid tip. Partially plugged horn holes, center holes or fluid tip hole.	Determine where material build-up is by inverting cap and test spraying. If pattern shape stays in same position, the condition is caused by material build-up on fluid tip. If pattern changes with cap movement, the condition is in the air cap. Soak cap or tip in suitable solvent and wipe clean. To clean orifices use a broom straw or toothpick. Never use a wire or hard instrument. This damags holes and distorts its spray pattern.
Heavy center pattern. 	Too much material.	Reduce fluid flow or increase air pressure.
	Material too thick.	Thin material.
Split spray pattern. 	Not enough material.	Reduce air pressure or increase fluid flow.
Jerky or fluttering spray. 	Insufficient material.	Fill material container.
	Gun with cup tipped at excessive angle.	Do not tip excessively or rotate fluid tube.
	Obstructed fluid passage or hose.	Clean.
	Loose fluid tip or damaged tip seat. (Most common cause.)	Tighten or replace.
	Loose or cracked fluid tube in cup or pressure tank.	Tighten or replace.
	Too heavy fluid for suction feed.	Thin material or change to pressure feed.
	Dry or worn packing or loose packing nut.	Lubricate or replace. Tighten.

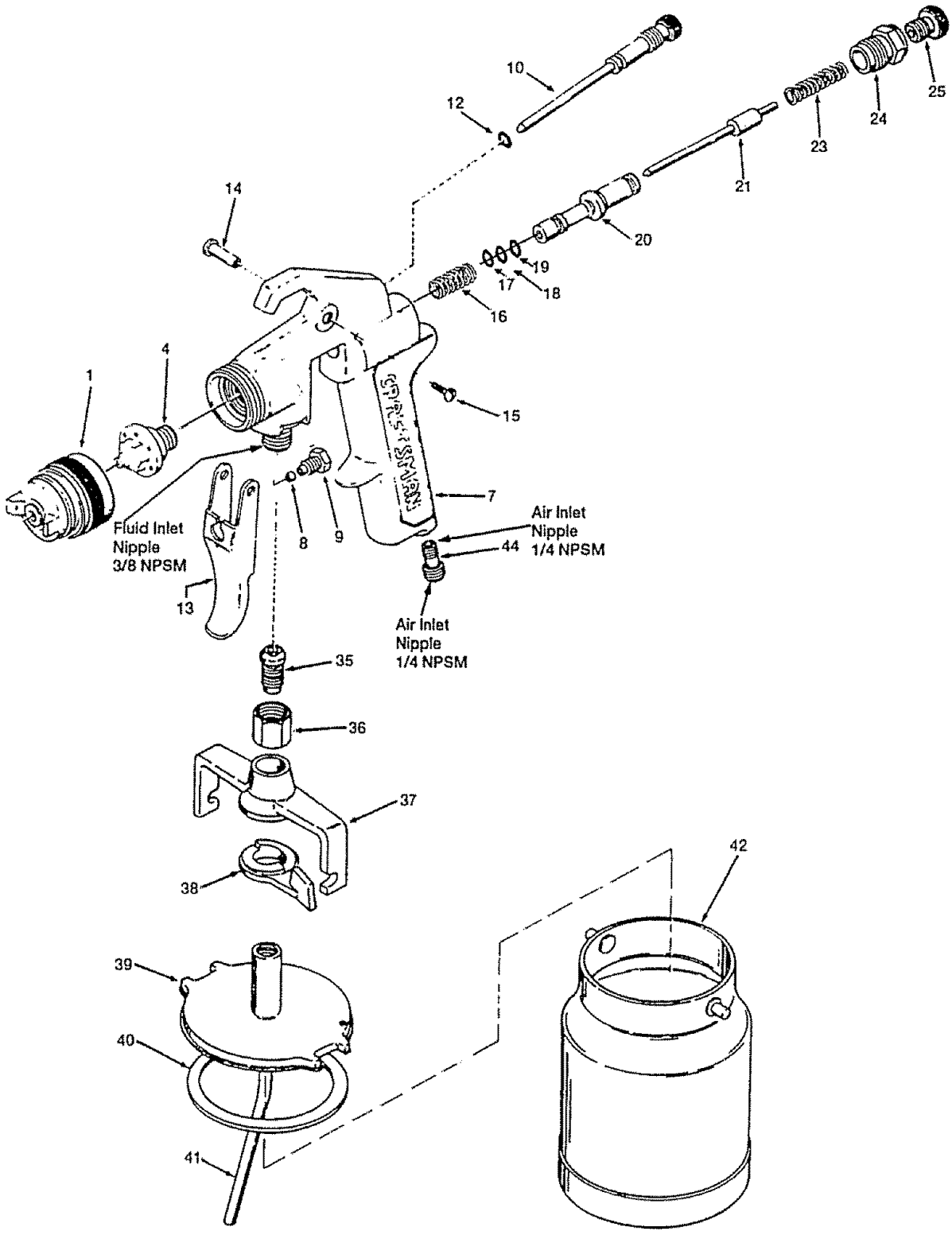
TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	CORRECTION
Unable to get round spray.	Fan adjustment stem not seating properly.	Clean or replace.
Improper spray pattern.	Gun improperly adjusted.	Readjust gun following instructions carefully.
	Dirty air cap.	Clean air cap.
	Fluid tip obstructed.	Clean.
	Sluggish needle.	Lubricate.
Will not spray.	No air pressure at gun.	Check air lines.
	Internal mix air cap used with suction feed.	Change to pressure feed.
	Fluid pressure too low with internal mix cap and pressure tank.	Increase fluid pressure at tank.
	Screw not open enough.	Open fluid adjusting screw.
	Fluid too heavy for suction feed.	Change to pressure feed.
Fluid leakage from packing retainer nut.	Packing nut loose.	Tighten, but not so tight as to grip needle.
	Packing worn or dry.	Replace packing or lubricate. See "Maintenance".
Dripping from fluid tip.	Dry packing.	Lubricate. See "Maintenance".
	Sluggish needle.	Lubricate. See "Maintenance".
	Tight packing nut.	Adjust. See "Operation".
Runs and sags.	Too much material for spray pace.	Reduce pressure and readjust.
	Material too thin.	Remix or spray light coats.
	Gun tilted on an angle.	Hold gun at right angle to work.
Excessive overspray.	Too much atomization air pressure.	Reduce.
	Gun too far from surface.	Check distance. See "Hints for Good Spraying Results".
	Improper stroking; i.e., arcing, moving too fast.	Move at moderate pace, parallel to work surface. See "Hints for Good Spraying Results".
Excessive fog.	Too much or quick drying thinner.	Remix.
	Too much atomization air pressure.	Reduce.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	CORRECTION
Thin, sandy coarse finish drying before it flows out.	Gun too far from surface.	Move gun closer to surface. See "Hints for Good Spraying Results".
	Too much air pressure.	Reduce pressure.
	Improper thinner.	Follow paint manufacturer's instructions.
Thick dimpled finish "orange peel." Too much material coarsely atomized.	Gun too close to surface.	Move gun away from the surface. See "Hints for Good Spraying Results".
	Air pressure too low.	Increase air pressure or reduce fluid pressure.
	Improper thinner.	Follow paint manufacturer's instructions.
	Material not thoroughly mixed.	Mix thoroughly.
	Surface rough, oily, dirty.	Properly clean and prepare surface.

EXPLODED PARTS VIEW



PARTS LIST

	KEY NO.	PART NUMBER	DESCRIPTION
	1	SG5-0001	Air Nozzle w/Brass Cap
	4	SG5-0004	Fluid Nozzle
	7	SG5-0007	Gun Body
✓	8	SG5-0008	Fluid Needle Packing
	9	SG5-0009	Packing Retainer
	10	SG5-0010	Air Valve Assembly
✓	12	SG5-0012	O-ring
	13	SG5-0013	Trigger
	14	SG5-0014	Trigger Stud
	15	SG5-0015	Trigger Stud Screw
	16	SG5-0016	Air Valve Spring
✓	17	SG5-0017	O-Ring
✓	18	SG5-0018	O-Ring
✓	19	SG5-0019	O-Ring
✓	20	SG5-0020	Valve Stem Assembly (Includes 1 each Key No. 17, 18, and 19)
	21	SG5-0021	Fluid Needle Assembly
	23	SG5-0023	Spring
	24	SG5-0024	Retaining Nut
	25	SG5-0025	Fluid Needle Adjusting Screw
•	35	SG5-0035	Screw
•	36	SG5-0036	Nut
•	37	SG5-0037	Arm
•	38	SGE-15	Lever Release
•	39	SG5-0039	Lid Cannister
•✓	40	SG5-0040	Gasket
•	41	SG5-0041	Siphon Tube
•	42	SG5-0042	Cannister
	44	SG5-0044	Adaptor 1/4 NPT x 1/4 NPS

✓ Key Nos. 8, 12, 17, 18, 19, 20, and 40 can be purchased individually or as part of K-0189 Gasket Kit.

• Key Nos. 35, 36, 37, 38, 39, 40, 41, and 42 can be purchased individually or as part of K-0190, complete Cup and Lid Assembly.

Internal Mix Air Cap can be purchased as SG5-0043.

SEARS

OWNERS MANUAL

When requesting service or ordering parts, always provide the following information:

- Model Number
- Part Number
- Part Description
- Name of Item

FULL ONE YEAR WARRANTY SPRAY GUN

If this spray gun fails due to a defect in material or workmanship within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS REPAIR CENTER THROUGHOUT THE UNITED STATES AND SEARS WILL REPAIR IT, FREE OF CHARGE.

If this spray gun is used for commercial or rental purposes, the warranty will apply for ninety days from the date of purchase.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

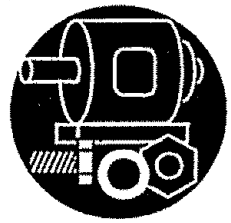
CRAFTSMAN®

PERMANENTLY LUBRICATED AIR COMPRESSOR

For the repair or replacement parts you need
Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278)



For in-home major brand repair service
Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7247)

For the location of a
Sears Parts and Repair Center in your area
Call 24 hours a day, 7 days a week

1-800-488-1222

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement
call 9 am - 5 pm, Monday-Saturday

1-800-827-6655

SEARS
REPAIR SERVICES
America's Repair Specialists

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.