

**SEARS**

**GENERAL  
OWNERS  
MANUAL**

**MODEL NO.  
919.150020**

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

**CRAFTSMAN DETAIL  
TOUCH-UP GUN**

**DESCRIPTION  
INSTALLATION  
OPERATION  
MAINTENANCE  
PARTS LIST**

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

M-150020 10/10/94

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## FULL ONE YEAR WARRANTY ON CRAFTSMAN SPRAY GUNS

If this Craftsman Detail Touch-Up Gun fails due to a defect in material or workmanship within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT THROUGHOUT THE UNITED STATES AND SEARS WILL REPAIR IT, FREE OF CHARGE.

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

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## SAFETY GUIDELINES

This manual contains information that is important for you to know and understand.

This information relates to YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS.

To help you recognize this information, we use the following symbols. Please read the manual and pay attention to those sections.



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








**Information for preventing damage to equipment.**

### NOTE

**Information that you should pay special attention to.**

**⚠ WARNING**

**HAZARDS CAN OCCUR DURING NORMAL USE OF THIS EQUIPMENT.  
PLEASE READ THE FOLLOWING CHART.**

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 glasses 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. <ol style="list-style-type: none"> <li>1. Do not use any type of spray coating material containing these solvents</li> <li>2. Do not use these solvents for equipment cleaning or flushing</li> <li>3. If in doubt as to whether a material is compatible, contact your material supplier.</li> </ol>

**AIR REQUIREMENTS**

Minimum SCFM required @ 40 P.S.I.

3.4

# GENERAL INFORMATION

## DESCRIPTION

The Craftsman Detail Touch-Up Gun is the only spray gun of its type that can be simply converted for use by a left or right handed sprayer, by simply unscrewing the trigger pin, turning the trigger over and re-inserting the trigger pin. The complete Craftsman Detail Touch-Up Gun consists of a detail touch-up gun and 8 oz. (240 cc) suction cup assembled. The detail touch-up gun is a non-bleeder, suction feed, external mix type. The cup has a one half pint capacity.

**NOTE:** This spray gun is designed to spray stains, acrylics, lacquers, primers, automotive metallics and other light and medium viscosity finishes. Most unreduced latex or other heavy bodied materials require the use of a pressure feed paint tank. If used with corrosive, rust-inducing, or highly abrasive materials, frequent and thorough cleaning will be required and/or may increase the need for replacement parts.

## INSTALLATION

(Figure 1) Attach nut of paint cup assembly to 1/4" NPT fluid inlet nipple on spray gun. Tighten only until snug. Position yoke at right angle to gun body with cam toward front of gun. Connect atomization air line to air compressor.

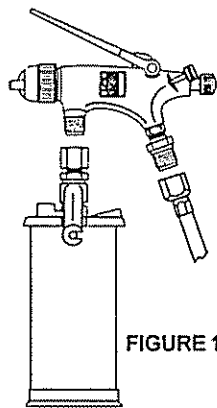
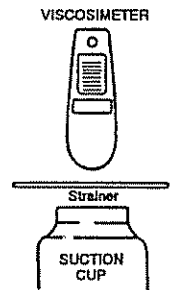


FIGURE 1

## PREPARING PAINT

Be sure the surface to be sprayed is dry and free of all dirt, grease, oil and loose paint. Mix and prepare paint in accordance with the manufacturer's instructions. Strain material to be sprayed through a 60 to 90 mesh screen or equivalent.



## OPERATION

This Craftsman Detail Touch-up gun should be flushed with solvent prior to spraying with paint.

- Adjust air pressure to approximately 30 P.S.I. The use of an air regulator assures clean, dry air.
- Turn needle adjustment screw (18) out until first thread shows. This places the tip and needle in a full open position which gives maximum tip and needle life. Never turn all the way in, as trigger cam will break.
- Turn fan adjusting screw (1) out until first thread shows.
- Press trigger and adjust needle adjusting screw (18) for desired material flow.
- Press trigger and observe atomization of fluid. If it is too great, decrease air pressure at regulator. If it is not enough, increase air pressure at regulator.
- Press trigger and adjust fan adjusting screw (1) until desired pattern is obtained. A perfect pattern is a full, even coat from end to end. Each time needle adjusting screw is adjusted Step E should be repeated.

## CONTROLLING THE FAN SPRAY

(Figure 2) The fan spray for an external mix nozzle set up is easily controlled by means of the fan adjusting screw (1). By turning to the right (clockwise) until it is closed will give a rounded spray; turning it to the left (counterclockwise) will widen the spray into a fan shape of any width desired. The direction of the fan spray (horizontal or vertical) is obtained by turning the air nozzle to the desired position, then tightening the air cap/retaining ring (24). Tighten only finger tight. Do not use pliers or wrench to tighten or loosen.

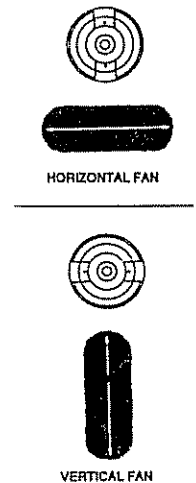


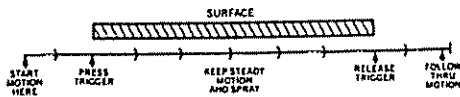
FIGURE 2

## CONTROLLING THE FLUID

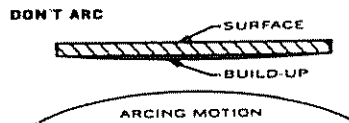
If a fluid pressure tank is used, the amount of fluid can be controlled by regulating the pressure on the tank. The amount of fluid can also be controlled by means of the fluid needle adjusting screw (18). By turning it clockwise (to the right), the amount of fluid is reduced. Turning it counterclockwise (to the left) increases the amount of fluid.

## HINTS FOR GOOD SPRAYING TECHNIQUES

At all times hold the spray gun perpendicular to the surface being sprayed. A spraying distance of 6-8 inches is recommended. This distance can be varied depending on the item being sprayed, the material or the air pressure used. Release the trigger at the end of each lateral stroke while the gun is still traveling. Start the gun moving at the beginning of the next stroke so the gun is in motion when the trigger is pressed (see illustration). This action should be practiced until a smooth, steady, rhythmic stroke becomes natural.



Overlap each stroke 50%. This is done by aiming the gun at the edge of the last stroke. A short practice period will be necessary to achieve an even stroke. Avoid arching the gun as this will leave an uneven coat of paint (see illustration).



## CLEANING AND PREVENTIVE MAINTENANCE

Preventive maintenance should head off some problems commonly encountered. Remember your detail touch-up gun is precision engineered and proper maintenance can help you get the fine quality results you desire.

**To Clean Gun:** Spray a small amount of clean solvent through the gun. Never immerse the gun in solvents as this removes lubricants and dries out the packings. A caustic solution should not be used to clean gun, as this will destroy the aluminum alloy. Remove air nozzle (23) and wash it in solvent. If necessary to clean air nozzle holes, use a broom straw or toothpick. Never use a steel wire or hard instrument as this will result in distortion of spray pattern. Wipe exterior of gun with solvent soaked cloth. Never soak gun in liquid detergent.



ROUND



FAN






**To Lubricate gun:** After each day's use place a drop of oil at trigger screw (9), fan control packing (3), and fluid needle packing (12). Occasionally remove fan control spring (5) and recoat with a light grease or Vaseline.

## MAINTENANCE

Proper adjustment of your Craftsman Detail Touch-Up Gun will give you a normal spray pattern of this shape (see illustration). If not, consult service check list on next page.

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

# TROUBLESHOOTING GUIDE

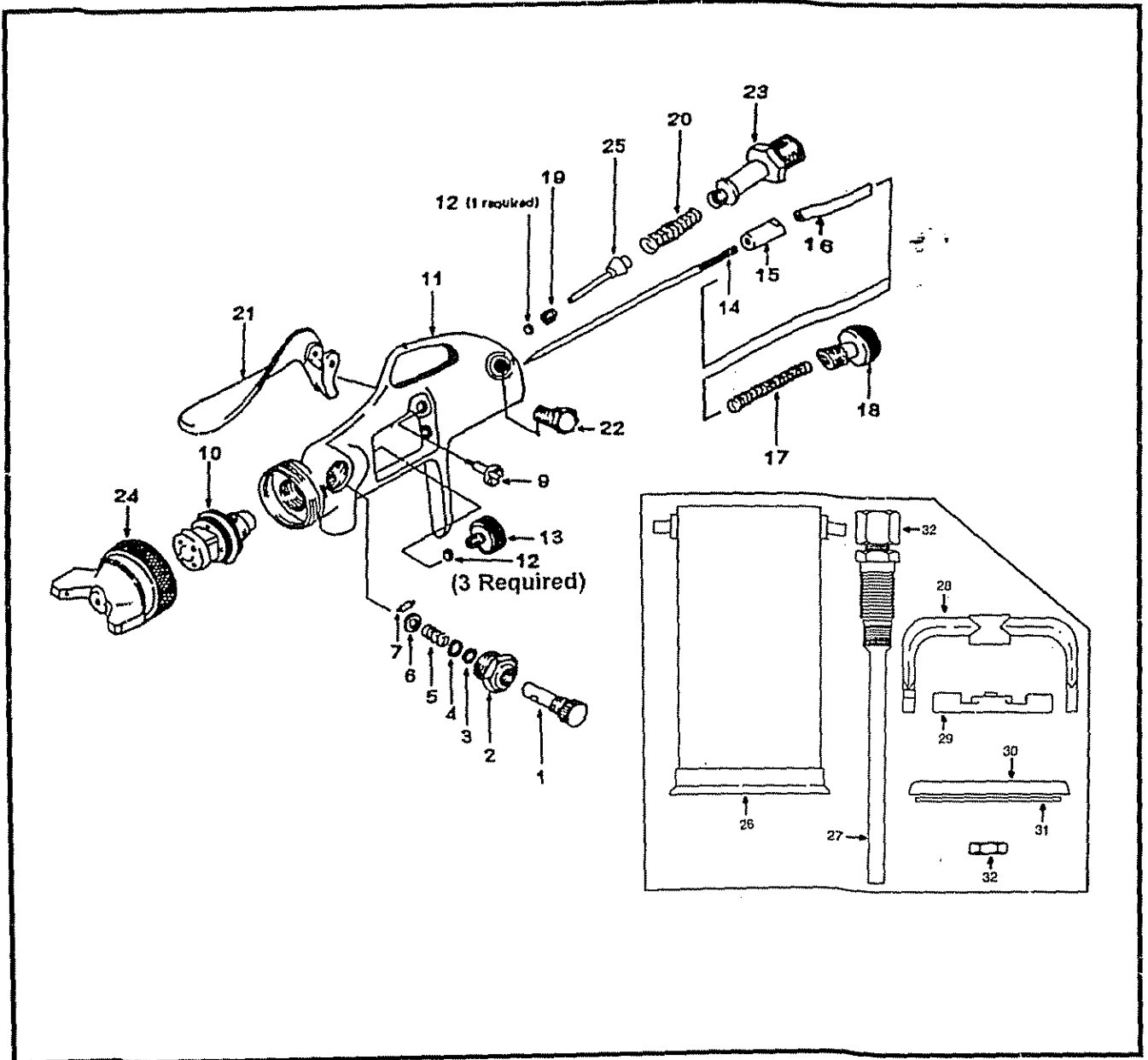
PROBLEM	CAUSE	CORRECTION
Heavy top or bottom pattern. 	Material build-up on air cap or fluid tip. Partially plugged horn holes, center holes or fluid tip hole.	Determine where material build-up is by inverting cap and test spraying. If pattern shape stays in same position, the condition is caused by material build-up on fluid tip. If pattern changes with cap movement, the condition is in the air cap.
Heavy right or left side pattern. 		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 damages holes and distorts its spray pattern.
Heavy center pattern. 	Too much material Material too thick.	Reduce fluid flow or increase air pressure. Thin material.
Split spray pattern. 	Not enough material.	Reduce air pressure or increase fluid flow.
Jerky or fluttering spray. 	Insufficient material. Gun with cup tipped at excessive angle. Obstructed fluid passage or hose. Loose fluid tip. (Most common cause.) Loose or cracked fluid tube in cup or pressure tank. Dry or worn packing or loose packing nut.	Fill material container. Do not tip excessively or rotate fluid tube. Clean. Tighten to stop leak. Tighten or replace. Lubricate or replace. Tighten.
Improper spray pattern.	Gun improperly adjusted. Dirty air cap. Fluid tip obstructed. Sluggish needle.	Readjust gun following instructions carefully. Clean air cap. Clean. Lubricate.
Unable to get round spray.	Fan adjustment stem not seating properly.	Clean or replace.
Will not spray.	No air pressure at gun. Needle adjusting screw not open enough.	Check air lines. Open needle adjusting screw.
Fluid leakage from packing retainer nut.	Packing nut loose. Packing worn or dry.	Tighten, but not so tight as to grip needle. Replace packing or lubricate. See "Maintenance".

# TROUBLESHOOTING GUIDE (Cont'd)

PROBLEM	CAUSE	CORRECTION
Dripping from fluid tip.	Dry packing.	Lubricate.
	Sluggish needle.	Lubricate.
	Tight packing nut.	Adjust.
	Worn fluid tip or needle.	Replace.
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 Techniques".
	Improper stroking; i.e., arcing, moving too fast.	Move at moderate pace, parallel to work surface. See "Hints for Good Spraying Techniques".
Excessive fog.	Too much or quick drying thinner.	Remix.
	Too much atomization air pressure.	Reduce.
Thin, sandy coarse finish drying before it flows out.	Gun too far from surface.	Move gun closer to surface. See "Hints for Good Spraying Techniques".
	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 Techniques".
	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.
Air will not shut off.	Valve plunger in backwards.	Adjust
Will not syphon.	Air deflector on backwards.	Adjust
	Paint tip sleeve on backwards.	Adjust
	Cup attached to air fitting.	Adjust
Air leak at trigger.	Valve loose.	Loosen valve housing nut, tighten valve all the way.



# SPRAY GUN DIAGRAM



# PARTS REFERENCE

KEY NO.	DESCRIPTION	QTY.
# 1	FAN ADJUSTING SCREW .....	1
2	VALVE BODY .....	1
# 3	FAN CONTROL PACKING .....	1
4	O-RING .....	1
< 5	SPRING .....	1
6	O-RING .....	1
# 7	PIN .....	1
9	SCREW, TRIGGER .....	1
10	FLUID TIP ✓ .....	1
11	✗ BODY .....	1
# 12	PACKING .....	1
13	PACKING NUT .....	1
# 14	FLUID NEEDLE ✓ .....	1
15	LOCK NUT ✓ .....	1
16	REAR LOCKNUT ✓ .....	1
# 17	SPRING .....	1
18	NEEDLE ADJUSTING SCREW <i>Not Available</i> .....	1
# 19	VALVE NUT .....	1
< 20	SPRING .....	1
21	TRIGGER .....	1
22	CAP SCREW .....	1
23	AIR CONNECTION <i>Not Available</i> .....	1
+ 24	AIR CAP/RETAINING RING .....	1
# 25	AIR STEM .....	1
x 26	PAINT CUP .....	1
* 27	PAINT TUB ASSEMBLY .....	1
* 28	YOKE .....	1
* 29	CAM LEVER .....	1
* 30	CUP LID .....	1
* 31	CUP GASKET .....	1
* 32	PAINT TUBE NUT .....	1

Complete Gun Body Assembly Can Be Ordered As CAC-1427.

- + Key Number 24 can be ordered as CAC-1428, Air Cap.
- Key Number 31 can be ordered as CAC-1429, Cup Lid Gasket.
- x Key Number 26 can be ordered as CAC-1430, Paint Cup.
- \* Key Numbers 27, 28, 29, 30, 31, and 32 can be ordered as CAC-1431, Lid and Yoke Assy.
- # Key Numbers 1, 3, 7, 12, 14, 17, 19, and 25 can be ordered as K-0091, Service Kit.
- < Key Numbers 3, 5, 12, 17, and 20 can be ordered as K-0092, Service Kit.