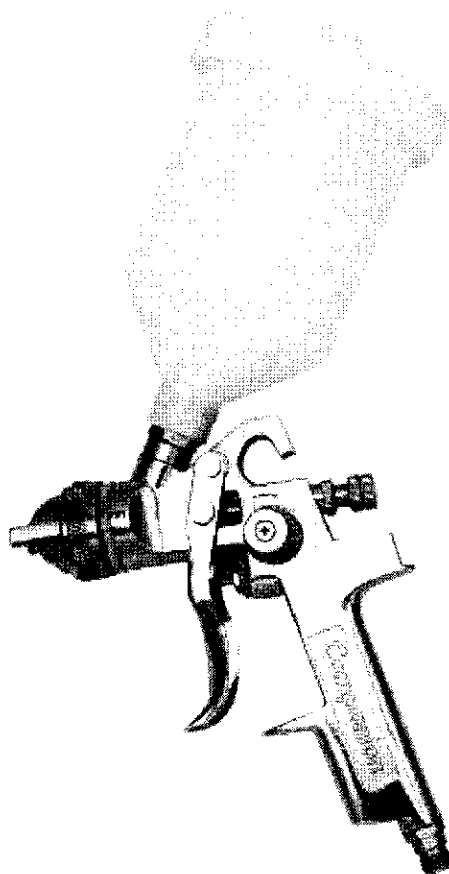


# Owner's Manual



## PNEUMATIC GRAVITY FEED SPRAY GUN

Model No.  
875.181180



### **WARNING:**

Before operating tool, read this manual and follow all Safety Recommendations and Operating Instructions.

- ◆ Safety
- ◆ Warranty
- ◆ Features & Operation
- ◆ Maintenance
- ◆ Español

**Sears, Roebuck and Co., Hoffman Estates, IL 60179 USA**

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## SAFETY INSTRUCTIONS

### Read Operating Instructions

Please become familiar with all the instructions and warnings before operating any pneumatic tool.

### Always Wear Approved Eye Protection

Impact resistant eye protection should meet or exceed the standards set forth in ANSI Z87.1, Occupational and Educational Eye and Face Protection. Look for marking Z87.1 on your eye protection to ensure that it is an approved style.

### Hearing Protection is Recommended

Hearing protection should be used when the noise level exposure equals or exceeds an 8 hour time-weighted average sound level of 85dBA. Process noise, reflective surfaces, other tools being operated nearby, all add to the noise level in a given work area. If you are unable to determine your noise level exposure, we recommend the use of hearing protection.

### Avoid Prolonged Exposure to Vibration

Pneumatic tools can vibrate during use. Prolonged exposure to vibration or very repetitive hand and arm movements can cause injury. Discontinue the use of any tool if you experience tingling, numbness, discomfort or pain in your hands or arms. You should consult your physician before resuming use of tool.

### 100 PSIG Maximum

This tool is designed to operate at an air pressure of 45-60 pounds per square inch gauge pressure (100 PSIG) maximum, at the tool. Use of higher air pressure can, and may cause injury. Also, the use of higher air pressure places the internal components under loads and stresses they were not designed for, causing premature tool failure.

**NOTE:** THE AIR SUPPLY SHOULD BE CLEAN, DRY AND PREFERABLY LUBRICATED. FOR BEST RESULTS DRAIN THE MOISTURE FROM YOUR COMPRESSOR DAILY.

### **⚠WARNING**

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from those exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles.

### **⚠CAUTION**

**TO AVOID CREATING AN EXPLOSIVE ATMOSPHERE, WORK ONLY IN WELL-VENTILATED AREAS.**

**USE OF NIOSH APPROVED FACE MASK IS RECOMMENDED TO PREVENT INHALATION OF TOXIC MATERIAL. DO NOT ATTEMPT TO UNCLOG (BACK FLUSH) SPRAY GUN BY SQUEEZING TRIGGER WHILE HOLDING FINGER IN FRONT OF FLUID NOZZLE.**

### **⚠WARNING**

The following hazards can occur during the normal use of this product:



#### **Risk of Explosion or Fire - Flammable 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 and could result in serious injury or death.

#### **How to prevent it:**

Never spray near open flames or pilot lights in stoves or heaters. Never smoke while spraying. Provide ample ventilation when spraying indoors.

#### **Risk of Explosion - Incompatible Materials**



The solvents 1,1,1 - Trichloroethylene and Methylene Chloride can chemically react with the aluminum used in most spray equipment, in this gun and cup, to produce an explosion

hazard that could result in serious injury or death.

#### **Risk to Breathing**

Some paints, coatings and solvents may cause lung damage, and burns if inhaled or allowed to come into contact with skin or eyes.

#### **How to prevent it:**

Use a NIOSH approved mask or respirator and protective clothing designed for use with your specific application and spray materials. Some masks provide only limited protection against toxic materials and harmful paint solvents. Consult with a Safety Expert or Industrial Hygienist if uncertain about your equipment or materials.

#### **Risk from Flying Objects:**

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. Compressed air may propel dirt, metal shavings, etc. and possibly cause an injury. Prolonged exposure to air spray can result in permanent damage to hearing.

#### **How to prevent it:**

Disconnect the gun from the air line or completely depressurize the air line whenever the gun is to be disassembled. Never point any nozzle or sprayer toward a person or part of the body. Always wear ANSI Z87.1 safety approved goggles or glasses when spraying. Always wear hearing protection when operating spray equipment.

**Do not use pressure that exceeds the operating pressure of any of the parts (hoses, fittings, etc.) in the painting system. Keep hose away from sharp objects. Bursting air hoses may cause injury. Examine air hoses regularly and replace if damaged.**



Always use a pressure regulator on the air supply to the spray gun.

## CAUTION

**DO NOT ATTEMPT TO UNCLOG (BACK FLUSH) SPRAY GUN BY SQUEEZING TRIGGER WHILE HOLDING FINGER IN FRONT OF FLUID NOZZLE.**

*Pressure may vary according to viscosity of material used. Maximum working pressure of gun is 100 psig. DO NOT EXCEED PRESSURE LIMIT OF GUN OR ANY OTHER COMPONENT IN SYSTEM!*

*Prior to daily operation, make certain that all connections and fittings are secure. Check hose and all connections for a weak or worn condition that could render system unsafe. All replacement components such as hose or fittings must have a working pressure equal to or greater than system pressure.*

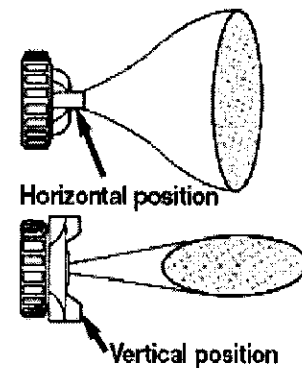
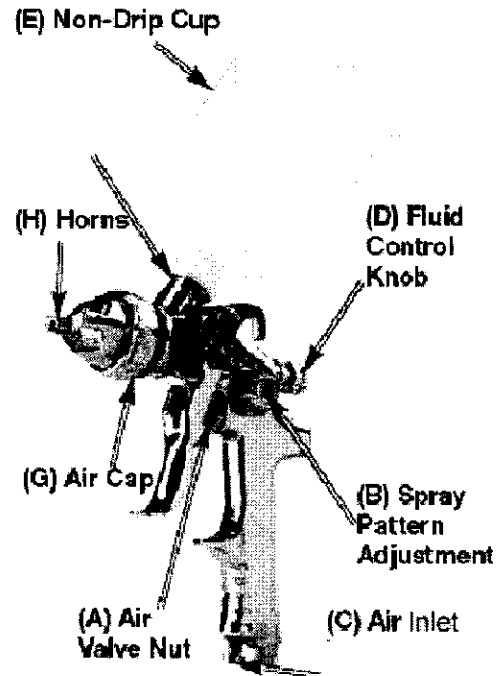
This gun was treated with an anticorrosive agent. Before using this gun make sure that it is carefully flushed with thinner.

- 1 The position of the air cap **(H) horns** will determine the spray pattern. Loosen **(G) air cap** and rotate horns to achieve desired pattern. Tighten air cap.
- 2 Attach material cup to the gun. **(E)**
3. Attach air supply line to 1/4 NPS air inlet. **(C)**

## CAUTION

**NEVER point spray gun at self or any other person. Accidental discharge of material may result in serious injury.**

4. Adjust air pressure at air compressor.
- 9 **DO NOT exceed 100 psig.**
- 10 Depress spray gun trigger fully to spray material.
- 11 **NOTE:** Depressing trigger partially will cause only air to be released.



### Adjust spray gun:

a. Amount of material released (density of "fan spray") is controlled by **(D) fluid control knob**. Turn knob counterclockwise to increase, or clockwise to decrease, the fluid flow.

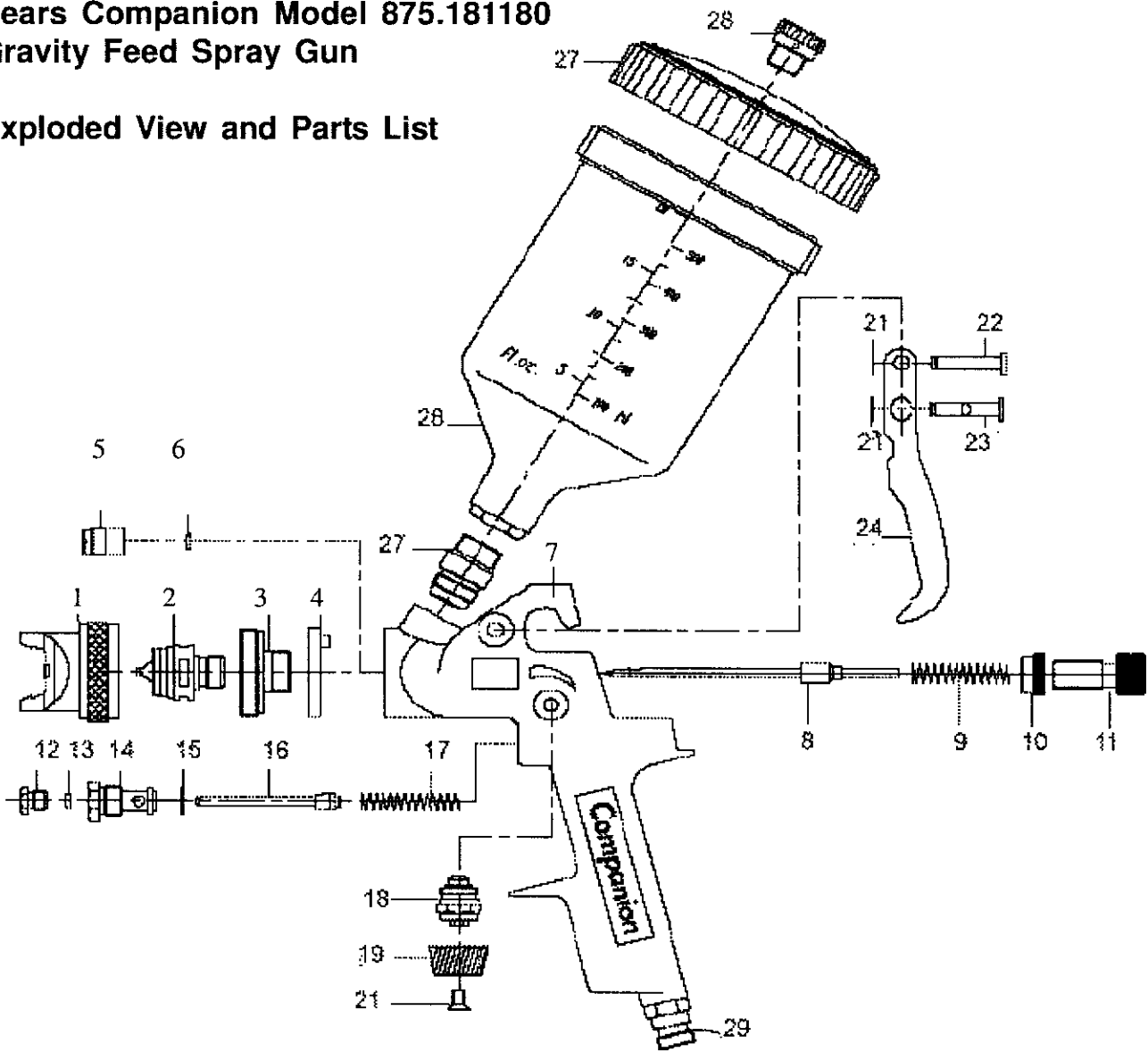
b. Width of "fan spray" is governed by **(B) pattern adjustment knob**. Turn knob counterclockwise to increase, or clockwise to decrease, air flow.

c. Air quantity is controlled by the air pressure at the compressor.

**NOTE:** Care should be exercised when handling spray gun to avoid damage to the orifice of the air cap and tip of fluid nozzle. Damage to these parts results in irregular spray patterns.

# Sears Companion Model 875.181180 Gravity Feed Spray Gun

## Exploded View and Parts List



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	933331	Air Cap Set	1	15	933317	Bushing	1
2	933332	Fluid Nozzle	1	16	933318	Plunger	1
3	933333	Nozzle Base	1	17	933319	Spring	1
4	933334	Nozzle Packing	1	18	933320	Adjustable Set	1
5	933335	Stem Screw	1	19	933321	Adjustable Knob	1
6	933336	Bushing	1	20	933322	Screw	1
7	933337	Body	1	21	933323	Spring	1
8	933338	Stem Set	1	22	933324	Pin	1
9	933339	Spring	1	23	933325	Pin	1
10	933310	Nut	2	24	933326	Trigger	1
11	933311	Spray Regular	1	25	933327	Connector	1
12	933314	Nut	1	26	933328	Cup	1
13	933315	Packing	6	27	933329	Cap	1
14	933316	Valve Stem	1	28	933330	Over Fluid Knob	1
				29	933331	Inlet Screw	1

## FEATURES/SPECIFICATIONS

The Companion Model 875.181180 spray gun is designed to be used with most finishing materials. It is not designed to be used with corrosive or highly abrasive materials. Using these materials can lead to poor performance and/or failure of this product.

It is ideal for applying light and medium bodied paints (stain, lacquer) to large size jobs such as complete auto finishing.

### Specifications

Air inlet .....	1/4" NPT
Maximum operating pressure .....	100 PSI
Average Air consumption .....	12.5 CFM @ 70 PSIG
Overall height .....	11.81"
Weight .....	2.64 lbs.
Hose Size .....	3/8"

## OPERATION / MAINTENANCE

### ⚠ CAUTION

Always exercise extreme care when using any solvent or thinner. Never clean gun near fire, flame, or any source of heat or sparks.

### ⚠ CAUTION

Properly dispose of used cleaning materials. DO NOT soak entire spray gun in solvent or thinner for a long period of time as this will destroy lubricants and possibly make motion uneven. NEVER use lye or caustic alkaline solution for cleaning. Such solutions will attack aluminum alloy parts of gun.

It is important that spray gun be cleaned after daily use. Cleaning is accomplished by spraying appropriate solvent or thinner through system. Wipe exterior of spray gun with solvent soaked cloth or use cleaning brush(s) provided to remove any accumulated material.

### Cleaning

(a) Empty material from gravity feed cup and replace with a suitable solvent.

(b) Operate trigger until all material traces have disappeared and gun is thoroughly clean.

(c) Clean air cap with brush.

**IMPORTANT: Make certain air cap and fluid nozzle are kept clean at all times. If necessary, remove these two components and soak them in solvent. DO NOT use hard objects to clean clogged holes. The smallest amount of damage may cause irregular spray pattern.**

**NOTE:** If **fluid nozzle** is to be removed for thorough cleaning, squeeze trigger to prevent damage of **fluid needle tip** when unscrewing nozzle.

### Lubrication

Lubrication procedures must be observed after thoroughly cleaning the gun to ensure effective, high quality performance of spray gun.

1. Lubricate working points with straight mineral oil, or castor oil.
2. Periodically, place a few drops of oil on tapered sections of fluid nozzle to ensure easy operation of air cap. When spraying water base materials, coat fluid nozzle inside and outside with straight mineral oil after each use.
3. Outer diameter of needle sleeve of fluid needle assembly must be lubricated occasionally with straight mineral oil.

### Change or Replace nozzle set

When changing nozzle set, make sure the complete nozzle set is exchanged. A set includes an air cap, fluid nozzle, and fluid needle.







**NOTE:** Assemble fluid nozzle before putting in fluid needle.

## WARRANTY

**FULL ONE YEAR WARRANTY ON COMPANION AIR-DRIVE TOOLS** If this Companion tool fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE IN THE UNITED STATES, and Sears will repair it, free of charge. If this Companion tool is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179.**

## TROUBLESHOOTING

Defective Pattern	Likely Cause	Suggested Remedy
<p>A.</p> 	<p>Dried material is clogging side-port "A" and causing side-port "B" to blow spray towards the clogged side</p> 	<p>Soak side-ports in thinner to clean clog. <b>DO NOT</b> poke any opening with hard objects.</p>
<p>B.</p> 	<p>Dried material at fluid nozzle "C" restricts air flow Loose air nozzle Air pressure set too high</p> 	<p>Remove air nozzle. Wipe off fluid tip using a cloth soaked in thinner or by soft brush</p> <p>Fasten nozzle securely Reduce air pressure</p>
<p>C. Spitting, irregular or fluttering spray</p> 	<p>Fluid nozzle cracked or worn Leak at thread of fluid nozzle Leak at fluid needle</p> <p>Needle packing worn out Insufficient fluid in cup Vent hole in container cover clogged</p>	<p>Tighten or replace Tighten fluid nozzle Tighten compression nut assembly or replace needle packing Replace packing Fill cup with fluid Clean Out</p>
<p>D. Split spray pattern</p> 	<p>Air pressure too high</p>	<p>Turn pattern control knob clockwise to decrease fan width. Turn fluid needle adjusting nut counterclockwise to increase fluid flow</p>
<p>F. Inadequate air delivery</p>	<p>Material too heavy Insufficient air pressure Fluid pressure too high Dried material on tip of fluid nozzle or air jets of air cap</p>	<p>Thin material or use larger orifice fluid nozzle set Increase pressure to within limit Reduce pressure Clean</p>
<p>E. Unatomized or spattered spray</p>	<p>Air needle partially closed Dried material in air jets or air cap Obstruction in air line</p>	<p>Open control knob Clean</p>
<p>G. Excessive fog</p>	<p>Air pressure too high for viscosity of fluid</p>	<p>Remove obstruction Reduce air pressure and/or open fluid control knob</p>
<p>H. Material leaking from fluid inlet of cup.</p>	<p>Loose cup or foreign substances on/between cup thread and fluid inlet</p>	<p>Tighten and clean or replace it</p>
<p>I. Material leaking from nozzle when trigger is released</p>	<p>Worn fluid needle Dried material in tip of nozzle Loose packing nut</p>	<p>Replace Clean Tighten needle packing nut by turning counterclockwise</p>

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