

T1-Titanium

HVLP Siphon Feed Spray Gun

SHARPE

THE SPRAY GUN PEOPLE
FOR PRODUCT INFORMATION CALL:
1-800-742-7731



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

Maximum Air Inlet Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum HVLP Compliant Air Pressure: 35 psi (241 kPa, 2.4 bar)

Part No 5485 Spray Gun System

Includes spray gun 5466 and "No-Drip" Cup Assembly 6610.



This gun is for use with thin to medium viscosity materials (14-20 seconds Zahn #2 cup). If spraying heavier materials, use a pressure or gravity feed spray gun.








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 **WARNING**

	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment only in well ventilated area. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. • Ground equipment and conductive objects in work area. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
	<p>EQUIPMENT MISUSE HAZARD</p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. • Check equipment daily. Repair or replace worn or damaged parts immediately. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your Graco distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	<p>TOXIC FLUID OR FUMES HAZARD</p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> • Read MSDS's to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
	<p>PERSONAL PROTECTIVE EQUIPMENT</p> <p>You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection
	<p>PRESSURIZED EQUIPMENT HAZARD</p> <p>Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.</p> <ul style="list-style-type: none"> • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

3 Year Limited Warranty

Sharpe warrants this product to the original user against defective material or workmanship for a period of 1 year from the date of purchase.

Sharpe reserves the right to determine whether the part or parts failed because of defective material, workmanship, or other causes. Failures caused by accident, alteration, or misuse are not covered by this warranty.

Sharpe, at its discretion, will repair or replace products covered under this warranty free of charge. Repairs or replacements of products covered under this warranty are warranted for the remainder of the original warranty period.

Sharpe or its authorized service representatives must perform all warranty repairs. Any repair to the product by unauthorized service representatives voids this warranty. The rights under this warranty are limited to the original user and may not be transferred to subsequent owners.

This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations may not apply to you.

T1-HVLP SIPHON FEED SPRAY GUN

Setup

- 13.9 CFM shop air flow is recommended (normally supplied by a minimum 4 hp compressor).
 - Use a minimum 3/8" ID air supply hose.
 - Set shop air pressure regulator (not supplied) according to paint manufacturer's recommendation. See maximum pressures and compliant air pressures on cover.
 - Make sure no air restrictions, such as low-volume cheater-valves, obstruct the air flow. If an air adjusting valve is desired, use a SHARPE Air Adjusting Valve 24AAV (part no. 2210), 36AAV-HOV (part no. 3310) or HOV (part no. U04410).
 - Install a shutoff valve (not supplied) downstream of the air regulator to shut off gun air.
 - Install an inline air filter (not supplied) to clean and dry the air supply to the gun.
1. Shut off air supply.
 2. Connect a clean, dry, filtered air supply to gun air inlet (9).
 3. If this is first time using the equipment, flush the spray gun.

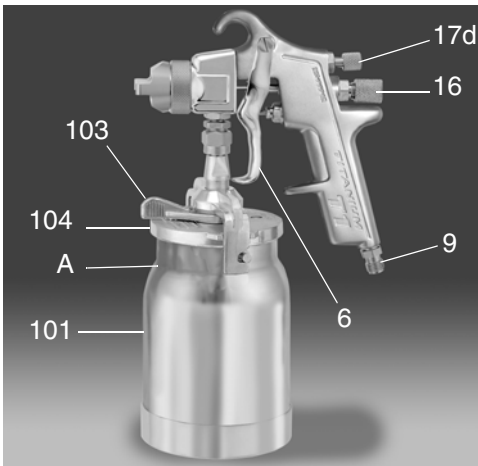


FIG. 1

Operation

Pressure Relief Procedure

WARNING



Follow **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment. Read warnings, page 2.

1. Turn off gun air supply.
2. Trigger the gun to relieve pressure.

Flushing

WARNING



Read warnings, page 2.

Flush before using the equipment, before changing colors, and when you are done spraying. Use solvent that is compatible with gun wetted parts and fluid that will be sprayed. Flush at lowest possible pressure.



Refer to **Compliant Cleaning Methods**, page 4, to comply with air quality laws if applicable.

1. Follow **Pressure Relief Procedure**.
2. Dispose of any paint in cup.
3. Fill cup with small amount of solvent.
4. Spray into grounded metal waste container until equipment is clean.
5. Follow **Pressure Relief Procedure**.

Spraying

CAUTION

Excessive atomizing air pressure can increase over-spray, reduce transfer efficiency, result in a poor quality finish from dry spray.

Regulatory agencies in certain states prohibit the operation of a spray gun above 10 psi (69 kPa, .7 bar) atomizing air cap pressure.

1. Fill cup (101) with material. Do not fill past cup "shoulder" (A). See FIG. 1.
2. Screw cup (101) onto lid (104) securely. Press lever (103) fully clockwise to seal cup.
3. Turn on shop air to gun and set atomizing pressure with the gun fully triggered.
4. Adjust the pattern size and shape with the spray width adjustment knob (17d). Turn knob clockwise to reduce pattern size and counterclockwise to increase it.



See **Troubleshooting** guide if you experience an irregular pattern.

5. Fluid control knob (16) is factory set for maximum needle trigger travel and material flow. To decrease needle/trigger travel and decrease fluid flow, turn the knob clockwise.

Cleaning and Maintenance

WARNING



Follow **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment. Read warnings, page 2.

CAUTION

- Do not submerge gun in solvent. Solvent dissolves lubricant, dries out packings, and may clog air passages.
- Do not use metal tools to clean air cap holes as this may scratch them and distort the spray pattern.
- Use a compatible solvent.
- Gun and cup can be cleaned in a gun washer.



Clean air line filters as directed by the manufacturer.

Volatile Organic Compounds (VOC) Regulation

In certain states, spraying solvents that release VOC's into the atmosphere when cleaning a spray gun is prohibited. To comply with these air quality laws you must use a cleaning method that prevents the escape of VOC vapors into the atmosphere. See **Compliant Cleaning Methods** below.

Compliant Cleaning Methods

- Place spray gun in a gun washer that completely encloses the gun and components during cleaning, rinsing, and draining.
- Spray solvent through the spray gun into a closed gun cleaning station.

Cleaning Gun and Cup



Refer to **Compliant Cleaning Methods** to comply with air quality laws if applicable.

1. Follow **Flushing** procedure, page 3.

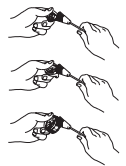
2. Use a rag moistened in solvent to wipe cup lid (104), fluid tube (108), inside of cup (101), and outside of gun.
3. Blow dry gun inside and out. Lubricate gun as described in **Spray Gun Maintenance**.

Cleaning Nozzle and Air Cap

CAUTION

- Trigger gun and use nozzle removal tool 41160 whenever you tighten or remove nozzle to avoid damaging needle seat and nozzle.
- Do not use metal tools to clean air cap holes as this may scratch them and distort the spray pattern.

To clean the air cap and nozzle, remove and soak them in a compatible cleaning solution. Clean them and front of gun with a soft-bristle brush dipped into compatible solvent. Do not use a wire brush or metal tools. To clean out air cap holes, use a soft implement, such as a toothpick.



Spray Gun Maintenance

- Frequently lubricate the gun moving parts with a drop of non-silicone oil (part no. 8255). See FIG. 2.
- Do not disassemble the spray gun if you are having a spray pattern problem. Check **Troubleshooting**, page 5, for information on how to correct the problem.
- Check for fluid leakage. Tighten fittings or replace equipment as needed.

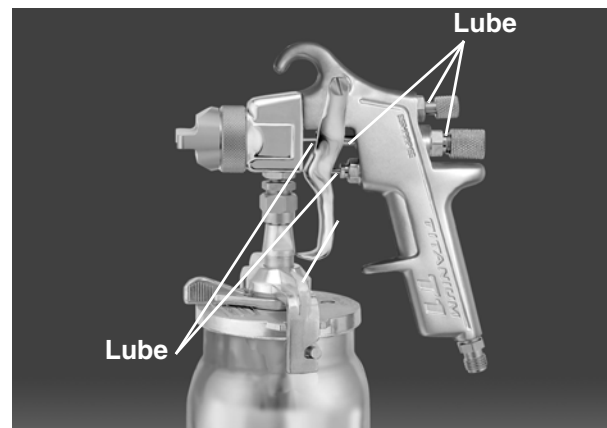


FIG. 2





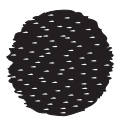
Troubleshooting



WARNING

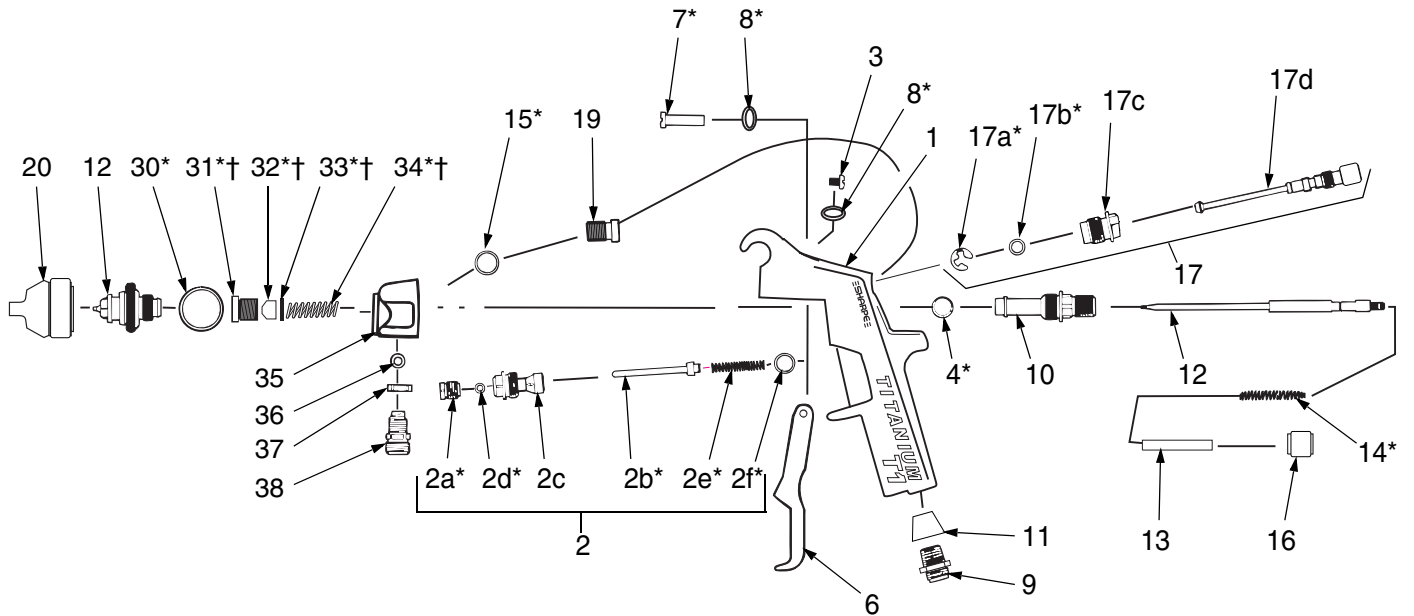


Follow **Pressure Relief Procedure**, page 3, before troubleshooting or servicing. Read warnings, page 2.

Problem	Cause	Solution
 Right	Normal pattern	No action necessary
 Wrong Heavy top or bottom pattern	Dirty or damaged air cap or fluid nozzle.	Rotate air cap 180°. <i>If pattern follows air cap</i> , problem is in air cap. Clean and inspect. See page 4. If pattern is not corrected, replace air cap. <i>If pattern does not follow the air cap</i> , the problem is with the fluid nozzle. Clean and inspect the nozzle. See page 4. If the pattern is not corrected, replace nozzle.
 Wrong Split pattern	Pressure too high for viscosity of material being sprayed.	a. Reduce air pressure. b. Increase material viscosity c. Correct pattern by narrowing fan size with spray width adjustment knob.
 Wrong	Dirty or distorted air horn holes.	Rotate air cap 180°. <i>If pattern follows air cap</i> , problem is in air cap. Clean and inspect. See page 4. If pattern is not corrected, replace air cap.
Will not spray.	a. Cup is not tight b. Cup empty. c. Air cap not seated.	a. Tighten cup lid. b. Fill cup. c. Turn spray width adjustment knob fully counterclockwise. Tighten air cap.
 Wrong Heavy pattern or orange peel	a. Air pressure too low. b. Gun held too close to surface.	a. Increase air pressure. b. Hold gun about 6-8 inches (150-200 mm) from surface.

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Parts



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	41142	Gun Handle, HVLP	1	17b*	38120	• O-Ring	1
2	41120	Air Valve Assembly Includes items 2a-2f	1	17c	26066	• Body	1
2a*	26032	• Packing Nut	1	17d	41148	• Control Valve/Knob	1
2b*	25066	• Air Valve	1	19	16153	Screw; 7/16-27 UNS	1
2c	34948	• Housing	1	20	41022	Air Cap	1
2d*	16162	• Packing	1	30*	38001	Nozzle Gasket	1
2e*	16167	• Air Valve Spring	1	31*†	41130	Packing Nut	1
2f*	16163	• Gasket	1	32*†	41124	Fluid Needle Packing	1
3*	34962	Trigger Screw	1	33*†	41126	Washer	1
4*	16163	Gasket	1	34*†	41128	Fluid Needle Spring	1
6	34959	Trigger	1	35	41143	Gun Head	1
7*	26044	Trigger Shaft	1	36	27058	Fluid Inlet Gasket	1
8*	34960	Spring Washer	2	37	27076	Fluid Inlet Lock Nut	1
9	26055	Air Inlet Fitting	1	38	27075	Fluid Inlet Fitting	1
10	41139	Fluid Control Bushing	1				
11	118524	Pressure Limit Bushing	1				
12	118779	Needle/Nozzle Set, 2.2 mm	1				
13	41129	Needle Sleeve	1				
14*	41134	Needle Spring	1				
15*	10326	Gasket	1				
16	41146	Fluid Control Knob	1				
17	41122	Width Control Assembly Includes items 17a-17d	1				
17a*	16175	• Retaining Ring	1				

* Parts included in Repair Kit 41165

† Parts included in Repair Kit 41132. Also includes Packing Nut Removal Tool 41155.

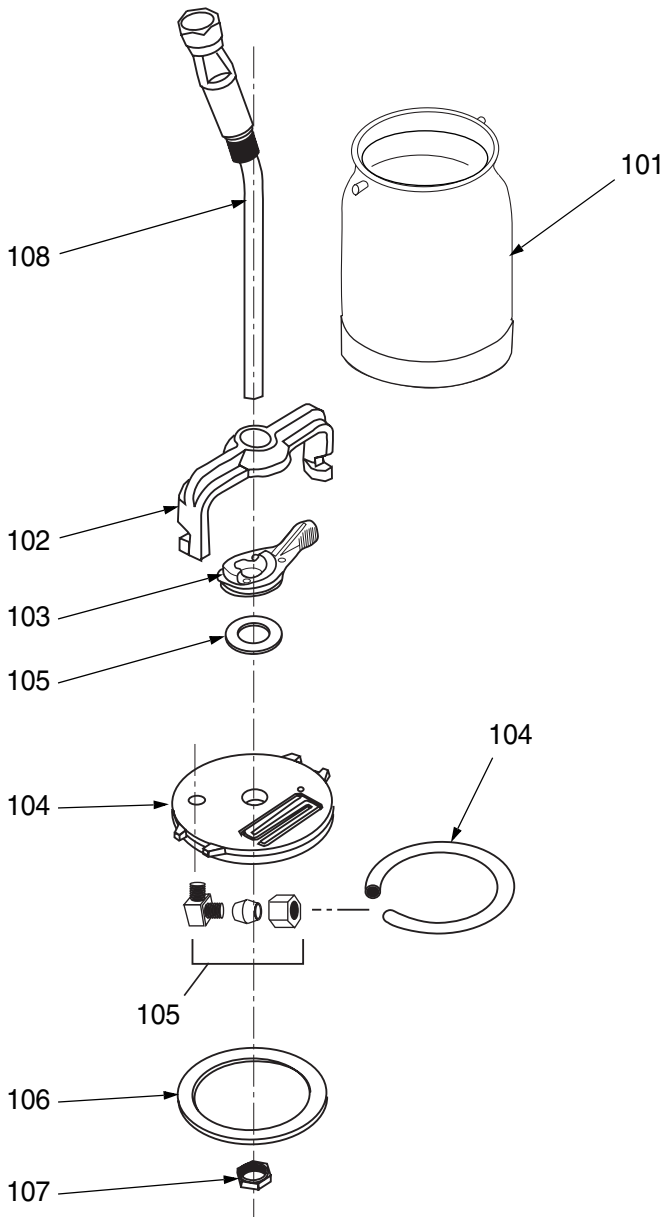
Gun Accessory Tools

Part No. 41155: Packing Nut Removal Tool

Part No. 41160: 1/2" Nozzle Removal Tool

MODEL 450 "NO-DRIP CUP ASSEMBLY"

Part No. 6610



Ref. No.	Part No.	Description	Qty.
101	119120	Canister	1
102	119116	Bridge	1
103	119117	Lever	1
104	21497	Lid	1
105	119099	Washer; 1.25 dia.	1
106	119100	Gasket, 3.5 dia.	1
107	118811	Locking Nut	1
108	119115	Fluid Tube Assembly	1

Technical Data

Maximum Air Inlet Pressure: 100 psi (0.7 MPa, 7 bar)
Maximum HVLP Compliant Air Pressure: 35 psi (241 kPa, 2.4 bar) - delivers 10 psi (69 kPa, 0.7 bar) spraying pressure at air cap

Air Consumption: 13.9 CFM at 35 psi (241 kPa, 2.4 bar)

Wetted Parts: stainless steel, carbon steel, aluminum, PTFE, low density polyethylene

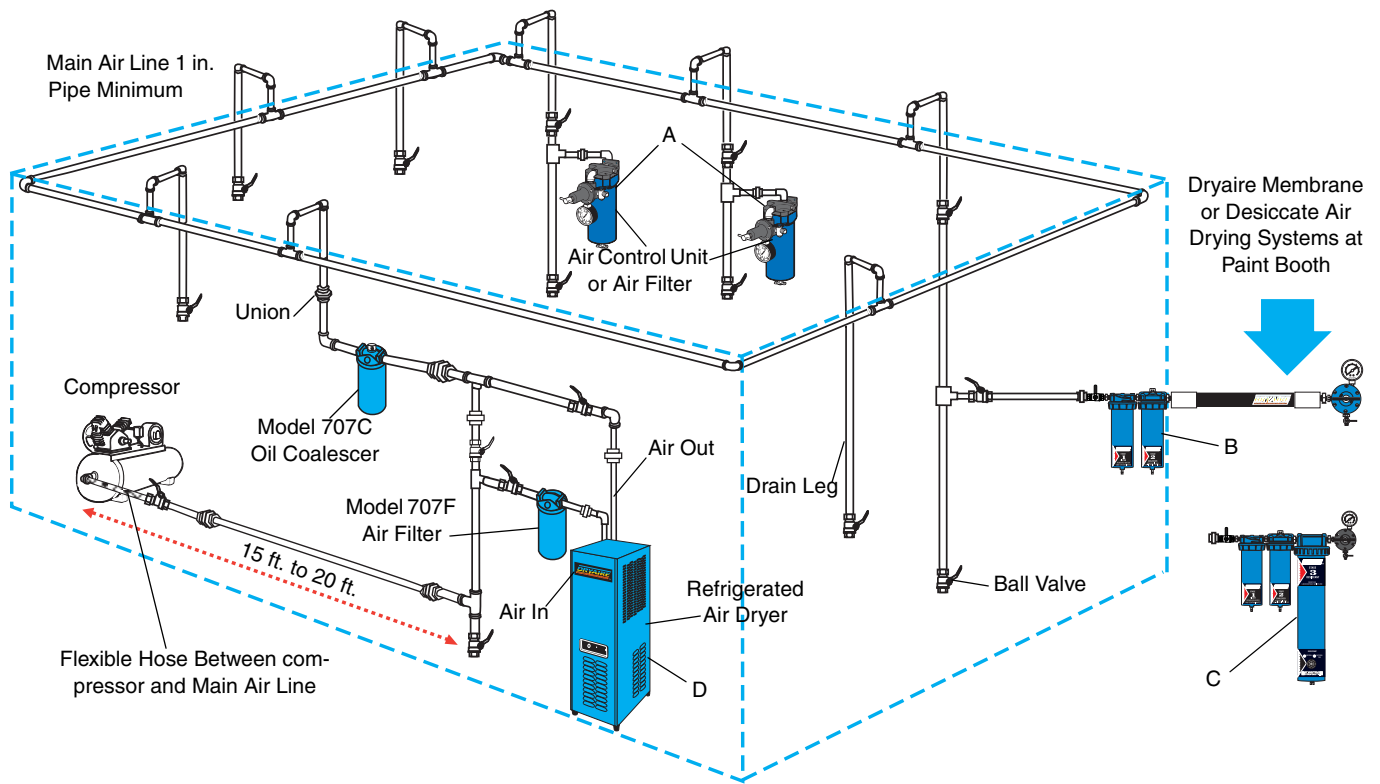
Weight: 2 lb. 9 oz. (1.16 kg)

Spray Gun

- 1/4 npsm (R1/4-19) air inlet
- 3/8 npsm (R3/8-19) fluid inlet

Siphon cup: 1 qt. (.95 liter)

T1-HVLP SIPHON FEED SPRAY GUN



Ref. Letter	Description	Model No.
A	Sharpe 606	U06710
	Sharpe 606A	U06720
	Sharpe 606B	6730
	Sharpe 880A	6950
	Sharpe F88	8130
B	707C	6930
	707F	6920
	707FC	6910
C	Dryaire Membrane	6770
D	Dryaire Desiccant	6760
E	Refrigerated Air Dryer	
	25CFM	6880
	35CFM	6885
	50CFM	6890
	75CFM	6895