# **Operation**, Parts



# Texture Spray Gun

For water-Based Materials Only.

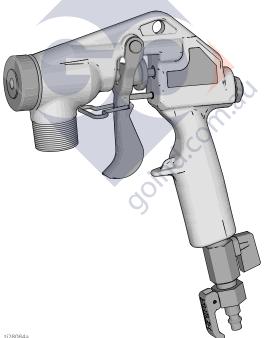
Model: 24S134, 24S135, 24S155 non-bleeder, use with RTX Texture Sprayers 125 psi (8.6 bar, 0.86 MPa) Maximum Air Working Pressure 1000 psi (68.9 bar, 6.89MPa) Maximum Fluid Working Pressure

Model: 248093 bleeder, use with GTX Texture Sprayers 125 psi (8.6 bar, 0.86 MPa) Maximum Air/Fluid Working Pressure



#### Important Safety Instructions

Read all warnings and instructions in this manual and related manuals. Be familiar with the controls and the proper usage of the equipment. Save these instructions.



ti28084a

Use only genuine Graco replacement parts. The use of non-Graco replacement parts may void warranty.

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# Warnings

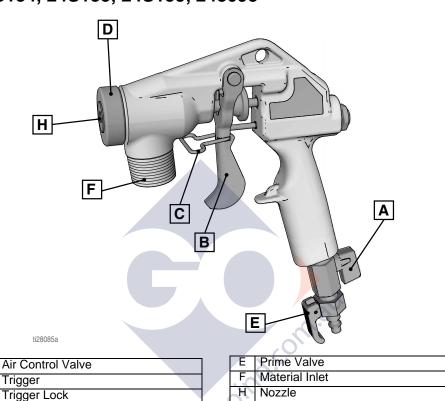
The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

$\wedge$	EQUIPMENT MISUSE HAZARD						
	Misuse can cause death or serious injury.						
	<ul> <li>Always wear appropriate gloves, eye protection, and a respirator or mask when painting.</li> </ul>						
NPa/bar/PSL	<ul> <li>Do not operate or spray near children. Keep children away from equipment at all times.</li> </ul>						
	<ul> <li>Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.</li> </ul>						
	<ul> <li>Stay alert and watch what you are doing.</li> </ul>						
	• Do not operate the unit when fatigued or under the influence of drugs or alcohol.						
	<ul> <li>Do not kink or over-bend the hose.</li> </ul>						
	<ul> <li>Do not expose the hose to temperatures or to pressures in excess of those specified by Graco.</li> </ul>						
	<ul> <li>Do not use the hose as a strength member to pull or lift the equipment.</li> </ul>						
	<ul> <li>Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.</li> </ul>						
	<ul> <li>Make sure all equipment is rated and approved for the environment in which you are using it.</li> </ul>						

$\land$	SKIN INJECTION HAZARD					
	<ul> <li>High-pressure fluid from dispensing device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment.</li> <li>Engage trigger lock when not dispensing.</li> <li>Do not point dispensing device at anyone or at any part of the body.</li> <li>Do not put your hand over the fluid outlet.</li> <li>Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing equipment.</li> <li>Tighten all fluid connections before operating the equipment.</li> <li>Check hoses and couplings daily. Replace worn or damaged parts immediately.</li> </ul>					
	PLASTIC PARTS CLEANING SOLVENT HAZARD					
	<ul> <li>Many solvents can degrade plastic parts and cause them to fail, which could cause serious injury or property damage.</li> <li>Use only compatible water-based solvents to clean plastic structural or property cause series.</li> </ul>					
	<ul> <li>pressure-containing parts.</li> <li>See Technical Data in this and all other equipment instruction manuals. Read fluid and solvent manufacturer's Safety Data Sheet (SDS) and recommendations.</li> </ul>					
	PERSONAL PROTECTIVE EQUIPMENT					
	<ul> <li>Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:</li> <li>Protective eyewear, and hearing protection.</li> <li>Respirators, protective clothing, and gloves as recommended by the fluid and</li> </ul>					
	solvent manufacturer.					
	This product contains a chemical known to the State of California to cause cancer,					
	birth defects or other reproductive harm. Wash hands after handling.					

## Component Identification

## **Component Identification** 24S134, 24S135, 24S155, 248093



24S134, interior gun kit includes WideTex™ discs
24S135, exterior gun kit includes hardened WideTex discs
24S155, gun only without WideTex discs

248093, bleeder gun

Retaining ring

A

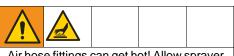
В

С

D

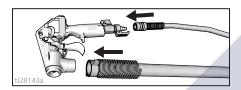
## Setup

## Setup

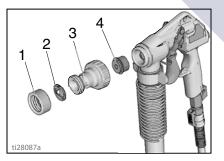


Air hose fittings can get hot! Allow sprayer to cool down 15 minutes before removing air hose.

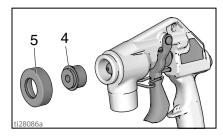
1. Connect air and material hoses to gun. Firmly tighten connections.



 If using WideTex adapter, install disc (2) on front of adapter (3) with retaining ring (1). Install a standard nozzle (4) on front of gun with the assembly. Pulling trigger when installing nozzle makes assembly easier. If desired finish is not achieved, try a different size standard nozzle. See Recommended Nozzle & Disc Selection Charts, page 7.



 For Standard operation: install nozzle (4) on front of gun and secure using retaining ring (5). See Recommended Nozzle & Disc Selection Charts, page 7. Pulling trigger when installing nozzle makes assembly easier.



4. Refer to sprayer operation manual to start and prime the sprayer.

### **Pressure Relief Procedure**



Follow the Pressure Relief Procedure whenever you see this symbol.



This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid and splashed fluid follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced.

- 1 Turn ON/OFF switch to the OFF position. Wait 7 seconds for power to dissipate.
- 2. Unplug sprayer.
- 3. Turn fluid regulator all the way down.
- 4. Shut OFF air source.
- Aim gun into hopper or waste bucket and trigger the gun until all air and material pressure is relieved. or open Prime Valve.



## Spray Disc and Nozzle Selection

- Standard nozzles (4) are numbered 3, 4, 6, 8, 10 and 12, designating orifice size in millimeters. These parts can be interchanged to produce a pattern suitable for each job.
- For smaller droplet sizes, reduce nozzle (4) and/or disc (2) size and increase gun

atomizing air by opening air valve (A) (counter-clockwise).

 For larger droplets, increase nozzle (4) and/or disc size (2) and reduce gun atomizing air by closing air control valve (A) (clockwise).

#### **Recommended Nozzle & Disc Selection Charts**

#### Nozzle

Application	Nozzle Size <sup>2</sup>	Air Volume <sup>1</sup>	Application	Nozzle Size <sup>2</sup>	Air Volume <sup>1</sup>
Fog	3 mm	high	Knockdown	6-12 mm	low
Simulated	4 mm	medium to high	Textured	8-12 mm	high <sup>3</sup>
Acoustic			Elastomerics		C C
	6 mm		Plastics	8-10 mm	high <sup>3</sup>
	8-10 mm		EIFS	8-12 mm	high <sup>3</sup>
Orange peel	3-4 mm	medium to high	Stucco	10-12 mm	high <sup>3</sup>
	4-8 mm		Knockdown	6-12 mm	low
Splatter coat	6-8 mm	low to medium			
	6-10 mm				
<sup>1</sup> Control air volume with gun air control valve.					
<sup>2</sup> For more material volume try a larger orifice tip.					
<sup>3</sup> Some materials may require the addition of external air to improve production rate.					
Use External Air Hookup Kit 287328.					

#### WideTex<sup>™</sup> Disc

Application	WideTex Disc		Nozzle (mm)	Air Volume
	Standard	Hardened		
Simulated Acoustic - Fine	W6	W6H	4	high
- Medium	W8	W8H	6	high
- Coarse	W10	W10H	8- 10	high
Fog	W4	W4H	3	high
Orange peel	W4 or W6	W4H or W6H	3 - 8	medium to high
Splatter coat	W6 or W8	W6H or W8H	6 - 10	low to medium
Knockdown	W6 or W8	W6H or W8H	6 - 8	low

## Gun Adjustments

## **Gun Adjustments**

Sufficient fluid output (volume and pressure) and good atomization is a balance of atomizing air, material thickness/material flow and nozzle selection. Achieving the correct balance for your application requires experimentation to achieve desired results. Keep in mind these important points when adjusting gun:

- To select correct nozzle for your applications, consider size of aggregate in material and coarseness of spray pattern. Remember the larger the nozzle, the larger the pattern. See Recommended Nozzle & Disc Selection Charts, page 7.
- Start sprayer with gun air control valve completely open. If needed, slowly close gun air control valve until you get a good spray pattern. Use minimum amount of air at spray gun to achieve proper spray pattern and to minimize bounce back.

+ Test spray pattern on cardboard. Hold gun 18 to 30 in. (45.7 to 76.2 cm) from surface. Use this spraying distance for most applications.

+ When spraying with a nozzle only overlap each stroke 50% in a circular motion.

+ When spraying with a nozzle and disc overlap each stroke 50% in a linear motion.

 Material flow is controlled with the fluid flow regulator knob and displayed on the gauge. Gun air flow is regulated using air control valve located on the gun handle.

+ Opening air control valve increases air flow through gun, which decreases texture material flow through pump.

+ Closing air control valve decreases air flow through gun, which increases texture material flow through pump.

#### For Less Material Flow

Try one or a combination of these methods:

- Open air control valve.
- Turn material flow control on sprayer to decrease flow, counter-clockwise.
- Use smaller nozzle.

#### For More Material Flow

Try any one or a combination of these methods:

- Close air control valve.
- Turn material flow control on sprayer to increase flow.
- Use thinner material mixture.
- Use a larger nozzle.

#### Preventing Material Surge at Gun Trigger

Pressure will build up in the system when you stop triggering the gun. To prevent material surge at initial gun triggering:

- Point gun away from surface you are spraying when you first pull trigger.
  - When you first start to spray, hold the gun away from the surface and gradually work your way closer to it.
  - Keep gun moving.
- After you begin spraying, trigger the gun as little as possible.

#### For Continuous Spraying

Use trigger lock to hold trigger open and reduce fatigue.

#### Check Material Consistency Periodically

Check and thin material as needed to maintain proper consistency. The material may thicken as it sits and slow down production. Agitate periodically.

## Shutdown and Cleanup

## Shutdown and Cleanup



**NOTE:** Keep pump and hose clean when switching between materials. A dirty pump can release particles of texture into the finish.

#### NOTICE

Before removing material hose be sure pressure is relieved and material is not in the hose.

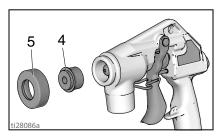
To keep sprayer in good operating condition, always clean it throughly and prepare it properly for storage.

When you have finished spraying:

- 1. Drain remaining material into bucket until most of texture material is out of the hopper.
- 2. Fill material hopper with clean water.



3. Remove nozzle from gun. Trigger gun into bucket until most of texture mix is pumped out. Allow water to flow through gun until gun is clean.



4. Finish cleaning all components. A soft brush may be used to help loosen any dried on material from surface.

**NOTE:** Cleaning out all air passages and components will improve gun performance and life.

- Connect air line to gun. Open gun air control valve, forcing air through nozzle to clear out any remaining material.
- 6. Disconnect air line and material hose from gun.



To ensure proper gun function for future use, remove and clean needle components and apply a few drops of light oil to:

- air hose quick connect
- material hose connections
- air shutoff needle material needle

Repair

## Repair

Repair involves the removal and replacement of worn or damaged parts.



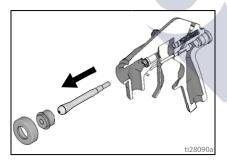
#### NOTICE

U-cup seals are very fragile. Never pound on seal when during assembly.

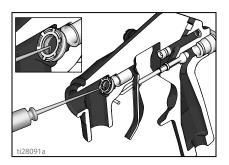
## Fluid Seal Replacement

For Non-bleeder guns use Seal Replacement Kit, 287228. For bleeder guns use Seal Replacement Kit, 287338.

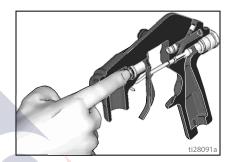
 Remove retaining ring (11), nozzle (28), and needle assembly (9) through front of gun.



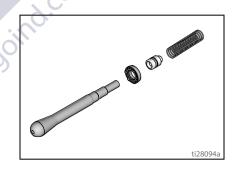
2. Use a hook-shaped object to carefully pull up-cup retainer and u-cup out of gun.



- 3. Using your finger or a 1/2-in. diameter rod, push new seal (3) in place. Make sure seal is seated against sleeve bearing (35).
- 4. Insert u-cup retaining ring (41). Make sure retaining ring is seated against u-cup (3).



- 5. Graco recommends you replace the entire fluid needle assembly at this time, including the needle (9) spring (5), packing o-ring (6) and guide (7).
- Trigger gun a few times to make sure u-cup and retainer are securely in place.

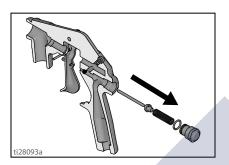


## Repair

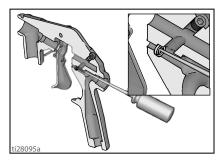
## Air Seal Replacement

(Use Seal Replacement Kit, 287229.)

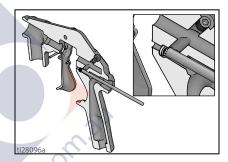
 Remove air valve retainer (21), compression spring (19), air valve seal (18) and needle (17) through back of gun.



2. Use a hook-shaped object to carefully pull u-cup seal (4) out of gun.



 Push new seal (4) in place using a small diameter (1/4 in. or smaller) object. Make sure seal is seated against sleeve bearing (36).



 Replace air valve needle (17) seal (18), spring (19) and O-ring (20) if necessary.

## Troubleshooting

## Troubleshooting



- 1. Follow , page 6, before checking or repairing.
- 2. Check all possible problems and causes before disassembling the unit.

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
Material will not flow out of gun	Material too thick	Thin material. Increase pres- sure at pump.
	Not enough air	Open gun air control valve (A) more (counter-clockwise)
	Trigger adjustment set too low	Rotate trigger nut clockwise to increase (adjust) trigger travel
	Nozzle too small	Increase nozzle size
	Gun is plugged	C <mark>lea</mark> n gun
Pattern too fine	Material too thin	Add more dry material to mix to thicken
	Air pressure too high	Close gun air control valve (A) partially (clockwise)
	Gun needle travel too low	Rotate trigger nut clockwise to increase (adjust) trigger travel
	Nozzle too small	Replace nozzle with larger size
Pattern too coarse	Material too thick	Add water to mix to thin material
	Air pressure too low	Open gun air control valve (A) more (counter-clockwise)
	Nozzle too large	Replace nozzle with smaller size
Gun will not shut off	Worn nozzle and/or needle	Replace worn parts
	Nozzle retaining ring not on all the way	Tighten completely.
	Debris in gun passages	Clean gun.
Fluid leaking at flow needle nut (8)	Damaged seal	Replace seal (3).

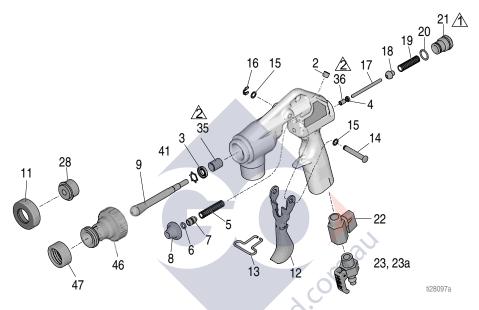
## Troubleshooting

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
Needle nut won't adjust	Dirty threads	Clean threads.
	Nozzle not on gun	Put nozzle on gun.
	Needle triggered	Adjust when trigger is not pulled.
Air won't shut off when gun	Debris in gun air passages	Clean gun.
trigger is released	Loose air fittings	Tighten air fittings on gun
	Worn air seals	Replace air shutoff needle u-cup (4) and/or air valve seal (18)
	Prime valve is leaking.	Remove and clean prime valve.
	Prime valve is plugged.	Remove and clean prime valve.



# 24S134, 24S135, 24S155, 248093 Gun Parts 24S134, 24S135, 24S155, 248093 Gun Parts

Ref.	
$\triangle$	90-110 in-lb (10 - 12 N•m)
2	Install bearings with chamfer on outside edge first.



## Replacement WideTex Discs

Part	Description	Part	Description
24S099	W4 (standard)	24S117	W10H (hardened)
24S100	W6 (standard)	24S118	W12H (hardened)
24S101	W8 (standard)	24S119	WXLH (hardened)
24S102	W10 (standard)	24S136	W4H, package of 6 (hardened)
24S103	W12 (standard)	24S137	W6H, package of 6 (hardened)
24S104	WXL (standard)	24S138	W8H, package of 6 (hardened)
24S114	W4H (hardened)	24S139	W10H, package of 6 (hardened)
24S115	W6H (hardened)	24S140	W12H, package of 6 (hardened)
24S116	W8H (hardened)	24S141	WXLH, package of 6 (hardened)

## 24S134, 24S135, 24S155, 248093 Gun Parts

## 24S134, 24S135, 24S155, 248093 Gun Parts List

Ref. Part	Description	Qty.		Part	Description	Qty.
2 103147	PLUG, pipe, Guns 24S134, 24S135,	1	28 28a 28b	15C883 15C884	NOZZLE NOZZLE, texture 3mm NOZZLE, texture 4 mm	1 1
3 15D125	24S155 SEAL, u-cup,.375 dia. shaft	1	280 28c 28d	15C885 15C886	NOZZLE, texture 6 mm NOZZLE, texture 8 mm	1
4 15D126	SEAL, u-cup, 156 dia. shaft, Guns 24S134, 24S135, 24S155	1	28e 28f 35	15C887 15C888 119183	NOZZLE, texture 10 mm NOZZLE, texture 12 mm BEARING, sleeve, 0.375	n 1
5 118592 6 156454	SPRING, compression PACKING, o-ring	1 1	36	119184	dia. shaft BEARING, sleeve, 4 mm	1
7 15C894 8 15B163 9	GUIDE, needle, fluid NUT, needle NEEDLE, fluid, assbly	1 1			dia. shaft, 156 dia. shaft, Guns 24S134, 24S135, 24S155	,
246972	Guns 24S134, 24S135, 24S155	1	37		KIT, repair, fluid needle, includes 3, 5, 6, 7, 8, 9,	
246971 11 15B042 12 15C882	Gun 248093 RING, retaining, nozzle TRIGGER, gun	1 1 1		287228	<i>10, 16, 3</i> 5 Guns 24S134, 24S135, 24S155	1
13 15D120 14 118717	LOCK, trigger PIN, clevis w groove	1	38	287338 287229	Gun 248093 KIT, repair, air needle	1 1
15 107243 16 115999 17 15C895	WASHER RING, retaining NEEDLE, air valve, 156	2 1 1	39		<i>includes 4, 17, 18, 19,</i> 20, 36 LABEL, right	
	dia. shaft, Guns 24S134 24S135, 24S155			17H679	Guns 24S134, 24S135, 24S155	
18 15D104	SEAL, air valve, 156 dia. shaft, Guns 24S134, 24S135, 24S155	1	40	15D932 17H680	Gun 248093 LABEL, left Guns 24S134, 24S135,	1
19 108961	SPRING, compression, 156 dia. shaft, Guns	1		15D930	24S155 Gun 248093	1
20 402040	24S134, 24S135, 24S155		41 46 47	119343 17E200 17H637	RING, retaining HOUSING, adapter RING, retaining	1 1 1
20 103610 21 15C896	PACKING, o-ring RETAINER, spring, air valve	1	グ	24S142	KIT, accessory, WideTex includes 46, 47, nozzles	<b>(1</b>
22 17H665 23 17J436	VALVE, ball ASSEMBLY, prime	1 1		24S143	W4, W6, W8, W10, W12, WXL KIT, accessory, WideTex	
	valve, 156 dia. shaft, Guns 24S134, 24S135, 24S155			240143	includes 46, 47, nozzles W4H, W6H, W8H,	
23a 17K135	FITTING, air, line, Gun 248093	1			W10H, W12H, WXLH	

## **Technical Specifications**

## **Technical Specifications**

	US	Metric				
Spray Gun		-				
Maximum Fluid Working Pressure						
Non-bleeder gun	1000 psi	68.9 bar, 6.89 MPa				
Bleeder gun	125 psi	8.6 bar, 0.9 MPa				
Maximum Air Working Pressure	125 psi	8.6 bar, 0.9 MPa				
Air Requirements (maximum)	30 scfm	0.84m <sup>3</sup> /min				
Fluid Inlet Size	1 in. NPT	25.4 mm				
Dimensions						
Height	10.3 in.	262 mm				
Length	7.5 in.	191 mm				
Width	1.7 in.	43 mm				
Weight (dry)	2.3 lb.	1.0 kg				
Noise**						
Sound Pressure Level	80.8	dBa*				
Sound Power Level	96.5	dBa*				
Materials of Construction						
Wetted materials on all models	Anodized Aluminum, Stainless Steel, Buna-N, UHMW Polyethylene, Brass, Steel, Viton, Delrin					
Notes						
* Spraying simulated acoustic at a	ull air and maximum material	pressure.				

\*\* Sound pressure measured 3 feet (1 meter) from equipment while spraying. Sound power

measured per ISO-9614.

## Graco Standard Warranty

## **Graco Standard Warranty**

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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For the latest information about Graco products, visit www.graco.com.

For patent information, see www.graco.com/patents.

**TO PLACE AN ORDER,** contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.



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Original instructions. This manual contains English. MM 3A3373

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